

**Return values:**

<MaxLength>      Range:      1 to 200  
                          Increment:    1  
                          \*RST:        20  
                          Default unit: UI

**Usage:**              Query only

**ADVJitter<m>:DCOMposition:RLEstimate**

Runs an estimate of the step response for the advanced jitter analysis measurements.

**Suffix:**

<m>                    1..2

**Usage:**

Event  
 Asynchronous command

**ADVJitter<m>:DCOMposition:POSStep <Position>**

Sets the steps position.

**Suffix:**

<m>                    1..2

**Parameters:**

<Position>          Range:      0 to 100  
                          Increment:    1  
                          \*RST:        50  
                          Default unit: %

**ADVJitter<m>:DCOMposition:RESPlength <Length>**

Set the step response length in unit intervals.

**Suffix:**

<m>                    1..2

**Parameters:**

<Length>            Range:      1 to 200  
                          Increment:    1  
                          \*RST:        20  
                          Default unit: UI

**ADVJitter<m>:DCOMposition:ENP <State>**

Enables the display of the periodic jitter components table.

**Suffix:**

<m>                    1..2

**Parameters:**

<State> ON | OFF  
 \*RST: ON

**ADVJitter<m>:DCOMposition:NHORizontal <MaxNumber>**

Sets the maximum number of periodic components in the horizontal direction that are considered for the measurement. If the actual number of periodic components is higher than the set value, they are considered for the random jitter component.

**Suffix:**

<m> 1..2

**Parameters:**

<MaxNumber> Range: 0 to 10  
 Increment: 1  
 \*RST: 5

**ADVJitter<m>:DCOMposition:NVERTical <MaxNumber>**

Sets the maximum number of periodic components in the vertical direction that are considered for the measurement. If the actual number of periodic components is higher than the set value, they are considered for the random jitter component.

**Suffix:**

<m> 1..2

**Parameters:**

<MaxNumber> Range: 0 to 10  
 Increment: 1  
 \*RST: 5

**ADVJitter<m>:DCOMposition:ENOBu <State>****Suffix:**

<m> 1..2

**Parameters:**

<State> ON | OFF  
 \*RST: OFF

**23.22.3 Clock data recovery (software-based, option R&S RTO-K12)**

|                                         |      |
|-----------------------------------------|------|
| CDR:SOFTware<m>:ALGorithm.....          | 2503 |
| CDR:SOFTware<m>:SERStandard.....        | 2503 |
| CDR:SOFTware<m>:ESBRate:SOURce.....     | 2504 |
| CDR:SOFTware<m>:ESBRate:BREStimate..... | 2504 |
| CDR:SOFTware<m>:ESBRate:CONTInuous..... | 2504 |
| CDR:SOFTware<m>:BITRate.....            | 2505 |

|                                    |      |
|------------------------------------|------|
| CDR:SOFTware<m>:ESLope.....        | 2505 |
| CDR:SOFTware<m>:SYNC.....          | 2505 |
| CDR:SOFTware<m>:RESults.....       | 2506 |
| CDR:SOFTware<m>:PLL:ORDer.....     | 2506 |
| CDR:SOFTware<m>:PLL:BWIDth.....    | 2506 |
| CDR:SOFTware<m>:PLL:RELBWIDth..... | 2507 |
| CDR:SOFTware<m>:PLL:DAMPing.....   | 2507 |
| CDR:SOFTware<m>:REVLockpll.....    | 2507 |
| CDR:SOFTware<m>:SAMTime.....       | 2508 |

---

### CDR:SOFTware<m>:ALGorithm <Algorithm>

Sets the software algorithm that is used for clock data recovery.

#### Suffix:

<m> 1..2  
Number of the software CDR setup

#### Parameters:

<Algorithm> CFRequency | PLL | FF | PLLStart

##### CFRequency

Constant frequency. CDR uses the nominal bit rate to generate the clock signal. The method assumes that the frequency of the signal is constant during the complete acquisition.

##### PLL

Phase-locked loop control system. It can follow slow deviations in the frequency of the data stream.

##### FF

Feed forward algorithm, a mathematical optimization method. Feed forward is available if none of the listed serial standards is used ("Custom"). It is faster than PLL, i.e., the settling time is shorter. Feed forward is also more precise than PLL. To set up the algorithm, set the bandwidth and the relative bandwidth.

\*RST: PLLStart

**Usage:** Asynchronous command

---

### CDR:SOFTware<m>:SERStandard <SerialStandard>

Sets the serial standard. The nominal bit rate and bandwidth settings are set according to the selected standard, no estimation is required. The serial standards are available only if the instrument is able to support its maximum nominal bit rate.

Set **CUSTOM** to adjust the bit rate and the bandwidth manually.

#### Suffix:

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<SerialStandard> CUSTOM | USB20 | USB31GEN1 | USB31GEN2 |  
 DISPPORT11 | DISPPORT12 | FIBCHAN1 | FIBCHAN2 |  
 FIBCHAN4 | FIBCHAN8 | FIBCHAN16 | HDMI12 | HDMI14 |  
 HDMI20 | PCIGEN1 | PCIGEN2 | PCIGEN3 | PCIGEN4 |  
 SATAGEN1500 | SATAGEN11667 | SATAGEN1 |  
 SATAGEN2500 | SATAGEN21667 | SATAGEN2 |  
 SATAGEN3500 | SATAGEN31667 | SATAGEN3 | SASGEN1 |  
 SASGEN2 | SASGEN3 | TB10G | XAUI | CUSTOM | USB20 |  
 USB31GEN1 | DISPPORT11 | DISPPORT12 | FIBCHAN1 |  
 FIBCHAN2 | FIBCHAN4 | HDMI12 | HDMI14 | HDMI20 |  
 PCIGEN1 | PCIGEN2 | SATAGEN1500 | SATAGEN11667 |  
 SATAGEN1 | SATAGEN2500 | SATAGEN21667 | SATAGEN2 |  
 SATAGEN3500 | SATAGEN31667 | SATAGEN3 | SASGEN1 |  
 SASGEN2 | XAUI  
 \*RST: CUSTOM

**Usage:** Asynchronous command

---

**CDR:SOFTware<m>:ESBRate:SOURce <BitrateSource>**

Selects the source of the data stream, which is analyzed to recover the clock.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Parameters:**

<BitrateSource> C1W1 | C2W1 | C3W1 | C4W1 | R1 | R2 | R3 | R4

**Usage:** Asynchronous command

---

**CDR:SOFTware<m>:ESBRate:BREStimate**

Estimates the bit rate once, for the current acquisition.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Usage:** Event  
 Asynchronous command

---

**CDR:SOFTware<m>:ESBRate:CONTinuous <BitrateEstimation>**

Enables ongoing correction of the bit rate.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Parameters:**

<BitrateEstimation> ON | OFF  
 \*RST: OFF

**Usage:** Asynchronous command

**CDR:SOFTware<m>:BITRate <Bitrate>**

Sets the quiescent frequency of the PLL. It corresponds to the data rate of the data stream from which the clock is to be recovered.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Parameters:**

<Bitrate> Range: 100 to max {5 Gbps, <available instrument bandwidth>  
 Increment: 10  
 \*RST: 1E+9  
 Default unit: bps

**Usage:** Asynchronous command

**CDR:SOFTware<m>:ESLope <Edge>**

Selects the edges of the data stream that are used for the clock recovery.

- "Either": Both positive and negative edges are used
- "Positive / Negative": Only one edge direction is used. Use one of these settings if the other edge might deliver unreliable results.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Parameters:**

<Edge> POSitive | NEGative | EITHer  
 \*RST: EITHer

**Usage:** Asynchronous command

**CDR:SOFTware<m>:SYNC <InitialSync>**

Defines the phase reference for the first clock edge.

**Suffix:**

<m> 1..2  
 Number of the software CDR setup

**Parameters:**

<InitialSync> SAMPlE | DATaedge

**SAMPlE**

The first clock edge matches the first sample of the waveform at the left border of the display.

**DATAedge**

The first clock edge matches the first edge of the data signal.

\*RST: DATAedge

**Usage:** Asynchronous command

**CDR:SOFTware<m>:RESults <Results>**

The PLL requires some time to synchronize to the phase of the data stream. You can select when the CDR algorithm returns clock edges.

**Suffix:**

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<Results> ALL | AISYnc  
**ALL**  
All clock edges are used.

**AISYnc**

The clock edges of the synchronization time are discarded; results are gathered after initial synchronization of the CDR. Thus, meaningful TIE measurement results can be obtained.

\*RST: ALL

**Usage:** Asynchronous command

**CDR:SOFTware<m>:PLL:ORDer <PLLOrder>**

Sets the order of the PLL: first or second order. PLL of higher order can compensate for more complex jitter behavior.

**Suffix:**

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<PLLOrder> FIRST | SEConD  
\*RST: SEConD

**Usage:** Asynchronous command

**CDR:SOFTware<m>:PLL:BWIDth <PLLBandwidth>**

Sets the PLL bandwidth. It defines the part of the spectrum that the PLL can follow during synchronization. The PLL bandwidth is usually defined by the transmission standard.

**Suffix:**

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<PLLBWwidth> Range: Nominal BITRate \* Range of RELBwidth (dependent range)  
Increment: 10  
\*RST: 599.88E+3  
Default unit: Hz

**Usage:** Asynchronous command

**CDR:SOFTware<m>:PLL:RELBwidth <PLLRelBw>**

Sets the relative bandwidth, that is the ratio of the nominal bit rate to the PLL bandwidth.

**Suffix:**

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<PLLRelBw> Range: 10 to 5000  
Increment: 1  
\*RST: 1667

**Usage:** Asynchronous command

**CDR:SOFTware<m>:PLL:DAMPing <DampingFactor>**

Sets the damping factor, which is only relevant for second order PLL.

**Suffix:**

<m> 1..2  
Number of the software CDR setup

**Parameters:**

<DampingFactor> Range: 0.5 to 1  
Increment: 0.01  
\*RST: 0.7

**Usage:** Asynchronous command

**CDR:SOFTware<m>:REVLlockpll <ReverseLockPll>**

Enables the reverse lock PLL algorithm. The signal is locked on the first edge.

**Suffix:**

<m> 1..2

**Parameters:**

<ReverseLockPll> ON | OFF  
 \*RST: ON

**Usage:** Asynchronous command

**CDR:SOFTware<m>:SAMTime <UntIntvlOffs>**

Sets a sampling time for the clock signal, an offset for the clock edge in relation to the bit start. The clock edge sets the beginning of the unit interval. The sampling time is a number between 0 and 1. Value 0 sets the clock edge to the beginning of the bit period; value 0.5 sets the clock edge to the middle of the bit period.

**Suffix:**

<m> 1..2

**Parameters:**

<UntIntvlOffs> Range: 0 to 1  
 Increment: 0.01  
 \*RST: 0.5  
 Default unit: UI

**Usage:** Asynchronous command

**23.22.4 Clock data recovery (hardware-based, option R&S RTO-K13)**

|                                  |      |
|----------------------------------|------|
| CDR:HARDware:SOURce.....         | 2508 |
| CDR:HARDware:SERStandard.....    | 2509 |
| CDR:HARDware:BREStimate.....     | 2509 |
| CDR:HARDware:BITRate.....        | 2509 |
| CDR:HARDware:ESLope.....         | 2509 |
| CDR:HARDware:PLL:ORDer.....      | 2509 |
| CDR:HARDware:PLL:BWIDth.....     | 2510 |
| CDR:HARDware:PLL:RELbwidth.....  | 2510 |
| CDR:HARDware:PLL:DAMPing.....    | 2510 |
| CDR:HARDware:SAMTime.....        | 2510 |
| TRIGger<m>:LEVel<n>[:VALue]..... | 2511 |

**CDR:HARDware:SOURce <Source>**

Selects the channel signal that is used for clock recovery.

The source cannot be changed if the CDR trigger is selected in the trigger setup. In this case, the instrument triggers on the recovered clock; trigger source and CDR source are the same.

**Parameters:**

<Source> CHAN1 | C1 | CHAN2 | C2 | CHAN3 | C3 | CHAN4 | C4  
 \*RST: CHAN1

**Usage:** Asynchronous command



**CDR:HARDware:SERStandard** <SerialStandard>

Sets the serial standard. Set `CUSTOM` to adjust the bit rate and the bandwidth manually.

### Parameters:

```
<SerialStandard>  CUSTOM | USB20 | DISPPORT11 | FIBCHAN1 | FIBCHAN2 |
                   HDMI12 | PCIGEN1 | SATAGEN1500 | SATAGEN11667
                   *RST:      CUSTOM
```

**Usage:** Asynchronous command

## CDR:HARDware:BREStimate

Estimates the bite rate once, for the current acquisition.

**Usage:** Event  
Asynchronous command

**CDR:HARDware:BITRate** <Bitrate>

Sets the quiescent frequency of the PLL. It corresponds to the data rate of the data stream from which the clock is to be recovered.

### Parameters:

```
<Bitrate>      Range:      200E+3 to 2.5E+9 for 10 GSa/s; range depends
                  on sample rate
                Increment: 10
                *RST:      1E+9
                Default unit: bps
```

**Usage:** Asynchronous command

## CDR:HARDware:ESLope &lt;Edge&gt;

Selects the edges of the data stream that are used for the clock recovery.

- "Either": Both positive and negative edges are used
- "Positive / Negative": Only one edge direction is used. Use one of these settings if the other edge might deliver unreliable results.

### Parameters:

```
<Edge>          POSitive | NEGative | EITHer
                *RST:      EITHer
```

**Usage:** Asynchronous command

## CDR:HARDware:PLL:ORDer &lt;PLLOrder&gt;

Sets the order of the PLL: first or second order. PLL of higher order can compensate for more complex jitter behavior.

**Parameters:**

<PLLOrder>            FIRSt | SEConD  
                          \*RST:        FIRSt

**Usage:**               Asynchronous command

**CDR:HARDware:PLL:BWIDth <PLLBandwidth>**

Sets the PLL bandwidth. It defines the part of the spectrum that the PLL can follow during synchronization. The PLL bandwidth is usually defined by the transmission standard.

**Parameters:**

<PLLBandwidth>    Range:        Nominal BITRate \* Range of RELBwidth (dependent range)  
                          Increment:    10  
                          \*RST:        599.88E+3  
                          Default unit: Hz

**Usage:**               Asynchronous command

**CDR:HARDware:PLL:RELBwidth <PLLRelBw>**

Sets the relative bandwidth, that is the ratio of the nominal bit rate to the PLL bandwidth.

**Parameters:**

<PLLRelBw>        Range:        500 to 3000  
                          Increment:    1  
                          \*RST:        1667

**Usage:**               Asynchronous command

**CDR:HARDware:PLL:DAMPing <DampingFactor>**

Sets the damping factor, which is only relevant for second order PLL.

**Parameters:**

<DampingFactor>   Range:        0.5 to 1  
                          Increment:    0.01  
                          \*RST:        0.7

**Usage:**               Asynchronous command

**CDR:HARDware:SAMTime <UntIntvlOffs>**

Sets a sampling time for the clock signal, an offset for the clock edge in relation to the bit start. The clock edge sets the beginning of the unit interval. The sampling time is a number between 0 and 1. Value 0 sets the clock edge to the beginning of the bit period; value 0.5 sets the clock edge to the middle of the bit period.

**Parameters:**

<UntIntvIOffs>      Range:      0 to 1  
                          Increment: 0.01  
                          \*RST:      0.5  
                          Default unit: UI

**Usage:**                      Asynchronous command

**TRIGger<m>:LEVel<n>[:VALue] <Level>**

Sets the trigger level for the specified event and source.

If the trigger source is serial bus, the trigger level is set by the thresholds in the protocol configuration.

**Suffix:**

<m>                      1..3  
                          1 = A-trigger, 2 = B-trigger, 3 = R-trigger

<n>                      1..31  
                          Indicates the trigger source:  
                          1...4 = channel 1 to 4  
                          5 = external trigger input  
                          6...11 = not available  
                          12...27 = R&S RT-ZVC input channels  
                          28...31 = differential signals Diff1, Diff2 and Common1, Common2

**Parameters:**

<Level>                      Voltage for the trigger level.  
                          Range:      Depends on vertical scale, channel offset and other settings. The trigger level must be within the current display range.  
                          Increment: 1E-3  
                          \*RST:      0  
                          Default unit: V

**Example:**

TRIG:LEV5 0.01

Sets the trigger level for the external trigger signal to 10 mV.

TRIG2:LEV3 0.2

Sets the trigger level for the B-event and B-trigger source channel 3 to 200 mV.

**Usage:**                      Asynchronous command

**23.22.5 Serial pattern trigger using CDR**

TRIGger<m>:SPATtern:CDR..... 2512  
 CDR:HARDware:SAMTime..... 2512

**TRIGger<m>:SPATtern:CDR <CdrInUse>**

Disables the clock source and enables the recovered clock signal generated by hardware CDR.

**Suffix:**

<m> 1..3  
Only 1 = A-trigger, 2 | 3 = not available. Can be omitted.

**Parameters:**

<CdrInUse> ON | OFF  
\*RST: OFF

**Usage:** Asynchronous command

**CDR:HARDware:SAMTime <UntIntvlOffs>**

Sets a sampling time for the clock signal, an offset for the clock edge in relation to the bit start. The clock edge sets the beginning of the unit interval. The sampling time is a number between 0 and 1. Value 0 sets the clock edge to the beginning of the bit period; value 0.5 sets the clock edge to the middle of the bit period.

**Parameters:**

<UntIntvlOffs> Range: 0 to 1  
Increment: 0.01  
\*RST: 0.5  
Default unit: UI

**Usage:** Asynchronous command

### 23.22.6 Eye mask testing

The eye mask testing is available if the option R&S RTO-K12 is activated on the instrument.

The commands for eye mask testing are described in [Chapter 23.14.6, "Eye mask testing"](#), on page 1597.

## 23.23 Power analysis (option R&S RTO-K31)

|                                               |      |
|-----------------------------------------------|------|
| • <a href="#">General</a> .....               | 2513 |
| • <a href="#">Deskew</a> .....                | 2514 |
| • <a href="#">Report</a> .....                | 2515 |
| • <a href="#">Power quality</a> .....         | 2520 |
| • <a href="#">Inrush current</a> .....        | 2522 |
| • <a href="#">Current harmonic</a> .....      | 2524 |
| • <a href="#">Modulation analysis</a> .....   | 2527 |
| • <a href="#">Dynamic ON resistance</a> ..... | 2528 |
| • <a href="#">Slew rate</a> .....             | 2530 |

|                           |      |
|---------------------------|------|
| • S.O.A.....              | 2532 |
| • Turn on/off.....        | 2535 |
| • Switching loss.....     | 2537 |
| • Power efficiency.....   | 2540 |
| • Ripple.....             | 2541 |
| • Transient response..... | 2548 |
| • Spectrum.....           | 2550 |

### 23.23.1 General

|                                 |      |
|---------------------------------|------|
| POWER:ENABLE.....               | 2513 |
| POWER:SOURce:CURRent<1..2>..... | 2513 |
| POWER:SOURce:VOLTage<1..4>..... | 2513 |

---

#### POWER:ENABLE

Activates the power mode and initializes the power measurements. If the power mode is disabled, the instrument does not accept any `POWER` command.

Use `POWER:ENABLE` after each `*RST`.

**Example:** See [Chapter 23.3.7.1, "Auto deskew"](#), on page 1278

**Usage:** Event

---

#### POWER:SOURce:CURRent<1..2> <CurrentSource>

Sets the channel for the current source.

##### Parameters:

<CurrentSource>    CHAN1 | CHANnel1 | CHAN2 | CHANnel2 | CHAN3 |  
                          CHANnel3 | CHAN4 | CHANnel4  
                          CHAN1 = CHANnel1, CHAN2 = CHANnel2, CHAN3 = CHAN-  
                          nel3, CHAN4 = CHANnel4  
                          \*RST:        CURRent1: CHAN2, CURRent2: CHAN4,

**Usage:** Asynchronous command

---

#### POWER:SOURce:VOLTage<1..4> <VoltageSource>

Sets the channel for the voltage source input.

##### Parameters:

<VoltageSource>    CHAN1 | CHANnel1 | CHAN2 | CHANnel2 | CHAN3 |  
                          CHANnel3 | CHAN4 | CHANnel4  
                          CHAN1 = CHANnel1, CHAN2 = CHANnel2, CHAN3 = CHAN-  
                          nel3, CHAN4 = CHANnel4  
                          \*RST:        VOLTage1: CHAN1, VOLTage2: CHAN3, VOLT-  
                          age3: CHAN3, VOLTage4: CHAN4

**Usage:** Asynchronous command

### 23.23.2 Deskew

Programming example: [Chapter 23.3.7.1, "Auto deskew"](#), on page 1278

|                                              |      |
|----------------------------------------------|------|
| <a href="#">POWER:DESKew:CURRent</a> .....   | 2514 |
| <a href="#">POWER:DESKew:EXECute</a> .....   | 2514 |
| <a href="#">POWER:DESKew:RESet</a> .....     | 2514 |
| <a href="#">POWER:DESKew:TIME?</a> .....     | 2514 |
| <a href="#">POWER:DESKew:UDPRreset</a> ..... | 2514 |

---

#### **POWER:DESKew:CURRent**

Applies the result of the auto deskew to the "Skew offset" value.

**Usage:** Event

---

#### **POWER:DESKew:EXECute**

Starts the auto deskew.

**Usage:** Event

---

#### **POWER:DESKew:RESet <OverwriteCurrSkew>**

Overwrites the present skew setup.

**Parameters:**

<OverwriteCurrSkew> ON | OFF

\*RST: ON

---

#### **POWER:DESKew:TIME?**

Queries the result of the auto deskew.

**Return values:**

<AutoDeskewOffs> Range: -100E-9 to 100E-9  
 \*RST: 0  
 Default unit: s

**Usage:** Query only

---

#### **POWER:DESKew:UDPRreset <UsrDefinedPreset>**

Activates or deactivates a user defined setup. If ON, the instrument setup including probe setup and the deskew values are written to a user defined preset file (saveset) that can be loaded using [MMEMory:RCL](#) on page 1644.

The default path is:

C:\Users\Public\Documents\Rohde-Schwarz\RTO\SaveSets\

**Parameters:**

<UsrDefinedPreset> ON | OFF

\*RST: ON

### 23.23.3 Report

|                                    |      |
|------------------------------------|------|
| POWER:REPort:CONTent:HSETup.....   | 2515 |
| POWER:REPort:CONTent:MSETup.....   | 2515 |
| POWER:REPort:CONTent:MSIGNAL.....  | 2515 |
| POWER:REPort:CONTent:RESU.....     | 2515 |
| POWER:REPort:CONTent:SETTings..... | 2515 |
| POWER:REPort:CONTent:TSETup.....   | 2516 |
| POWER:REPort:CONTent:VSETup.....   | 2516 |
| POWER:REPort:CONTent:TITLe.....    | 2516 |
| POWER:REPort:DESCription.....      | 2516 |
| POWER:REPort:DUT.....              | 2516 |
| POWER:REPort:SITe.....             | 2516 |
| POWER:REPort:TEMPerature.....      | 2516 |
| POWER:REPort:USER.....             | 2516 |
| POWER:REPort:FONT:COLO.....        | 2516 |
| POWER:REPort:FONT:FAMl.....        | 2516 |
| POWER:REPort:FONT:SIZE.....        | 2516 |
| POWER:REPort:LOGO.....             | 2517 |
| POWER:REPort:PAPerSize.....        | 2517 |
| POWER:REPort:FILE:NAME.....        | 2517 |
| POWER:REPort:FILE:DELeTe.....      | 2517 |
| POWER:REPort:FILE:NEw.....         | 2517 |
| POWER:REPort:FILE:SAVE.....        | 2517 |
| POWER:REPort:TEST:ADD.....         | 2518 |
| POWER:REPort:TEST:INSert.....      | 2518 |
| POWER:REPort:TEST:REMOve.....      | 2518 |
| POWER:REPort:INVert.....           | 2518 |
| POWER:REPort:TEST:DSEA.....        | 2518 |
| POWER:REPort:TEST:ISE.....         | 2518 |
| POWER:REPort:TEST:SEA.....         | 2519 |
| POWER:REPort:TEST:RSE.....         | 2519 |
| POWER:REPort:TEST:DIRectory.....   | 2519 |
| POWER:REPort:TEST:COMMeNt.....     | 2520 |
| POWER:REPort:TEST:COUNt.....       | 2520 |
| POWER:REPort:TEST:LSENd?.....      | 2520 |

---

**POWER:REPort:CONTent:HSETup** <ContentHorizSet>

**POWER:REPort:CONTent:MSETup** <ContentMeasSet>

**POWER:REPort:CONTent:MSIGNAL** <ContentMeasuredSigns>

**POWER:REPort:CONTent:RESU** <ContentResults>

**POWER:REPort:CONTent:SETTings** <ContentSettings>

**POWer:REPort:CONTent:TSEtup** <ContentTrigSet>

**POWer:REPort:CONTent:VSEtup** <ContentVertSet>

Sets how often the respective content is shown in the final report.

**Parameters:**

<ContentVertSet> ALWAYS | NEVER | ONCE  
\*RST: ONCE

**POWer:REPort:CONTent:TITLe** <ContentTitle>

Includes the title page in the report.

**Parameters:**

<ContentTitle> ON | OFF  
\*RST: ON

**POWer:REPort:DESCription** <String>

**POWer:REPort:DUT** <String>

**POWer:REPort:SITe** <String>

**POWer:REPort:TEMPerature** <String>

**POWer:REPort:USER** <String>

The content of the strings is shown at the title page of a report if the title page is included in the report.

**Parameters:**

<String>

**POWer:REPort:FONT:COLO** <FontColor>

Sets the font color.

**Parameters:**

<FontColor> Range: 0 to 4294967295  
Increment: 1  
\*RST: 0

**POWer:REPort:FONT:FAMI** <FontFamily>

Selects the font family. You can choose between Arial and Helvetica.

**Parameters:**

<FontFamily> ARIAL | HELV  
\*RST: ARIAL

**POWer:REPort:FONT:SIZE** <FontSize>

Sets the font size.



**Parameters:**

<FontSize>            Range:     10 to 30  
                         Increment:  1  
                         \*RST:     12

---

**POWer:REPort:LOGO <LogoFile>**

Selects a path to a logo picture file.

**Parameters:**

<LogoFile>

---

**POWer:REPort:PAPersize <PaperSize>**

Set the layout of your report.

**Parameters:**

<PaperSize>            A4 | USL  
                         \*RST:     A4

---

**POWer:REPort:FILE:NAME <Path>**

Defines the path and file name of the report file that is to be created, saved, or deleted.

**Parameters:**

<Path>                        String containing path and file name

---

**POWer:REPort:FILE:DELeTe**

Deletes the selected report file.

**Usage:**                        Event

---

**POWer:REPort:FILE:NEW**

Creates a new report file.

**Usage:**                        Event

---

**POWer:REPort:FILE:SAVE**

Saves the report file.

**Usage:**                        Event

---

---

**POWer:REPort:TEST:ADD** <MeasType>

**POWer:REPort:TEST:INSert** <MeasType>, <Index>

**POWer:REPort:TEST:REMove** <MeasType>, <Index>

Manage reports.

**Setting parameters:**

<MeasType>

QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

**QUAL**

Power Quality

**RUSH**

Inrush Current

**HARM**

Current Harmonic

**MODU**

Modulation Analysis

**DONR**

Dynamic ON Resistance

**SLEW**

Slew Rate

**SOA**

Safe Operating Area (S.O.A.)

**TURN**

Turn On/Off

**SWIT**

Switching Loss

**EFF**

Power Efficiency

**RIPP**

Ripple

**TRANS**

Transient Response

**SPEC**

Spectrum

<Index>

**Usage:** Setting only

---

**POWer:REPort:INVert** <InvertScreenshotClr>

**POWer:REPort:TEST:DSEA** <MeasType>

**POWer:REPort:TEST:ISE** <MeasType>

**POWer:REPort:TEST:SEA** <MeasType>

**POWer:REPort:TEST:RSE** <MeasType>

Manage the selection of reports.

**Parameters:**

<MeasType> QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

**QUAL**

Power Quality

**RUSH**

Inrush Current

**HARM**

Current Harmonic

**MODU**

Modulation Analysis

**DONR**

Dynamic ON Resistance

**SLEW**

Slew Rate

**SOA**

Safe Operating Area (S.O.A.)

**TURN**

Turn On/Off

**SWIT**

Switching Loss

**EFF**

Power Efficiency

**RIPP**

Ripple

**TRANS**

Transient Response

**SPEC**

Spectrum

---

**POWer:REPort:TEST:DIRectory** <MeasType>, <DirectoryPath>

**POWer:REPort:TEST:DIRectory?** <MeasType>

Selects the directory, in which the reports are saved.

**Setting parameters:**

<DirectoryPath>

**Parameters for setting and query:**

<MeasType> QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

---

**POWer:REPort:TEST:COMMeNt** <MeasType>, <Comment>

**POWer:REPort:TEST:COMMeNt?** <MeasType>

Sets a comment for the report.

**Setting parameters:**

<Comment>

**Parameters for setting and query:**

<MeasType>            QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

---

**POWer:REPort:TEST:COUNt** <MeasType>

**Parameters:**

<MeasType>            QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

**Return values:**

<Count>

---

**POWer:REPort:TEST:LSENd?** <MeasType>

**Query parameters:**

<MeasType>            QUAL | RUSH | HARM | MODU | DONR | SLEW | SOA | TURN |  
SWIT | EFF | RIPP | TRANS | SPEC

**Usage:**                Query only

## 23.23.4 Power quality

|                                                |      |
|------------------------------------------------|------|
| POWer:QUALity:AUTO.....                        | 2521 |
| POWer:QUALity:EXECute.....                     | 2521 |
| POWer:QUALity:FREQ.....                        | 2521 |
| POWer:QUALity:FCUS.....                        | 2521 |
| POWer:QUALity:REPort:ADD.....                  | 2521 |
| POWer:QUALity:RESult:CURRent:CREStfactor?..... | 2521 |
| POWer:QUALity:RESult:CURRent:FREQuency?.....   | 2521 |
| POWer:QUALity:RESult:CURRent:PEAK?.....        | 2521 |
| POWer:QUALity:RESult:CURRent:RMS?.....         | 2521 |
| POWer:QUALity:RESult:POWer:APParent?.....      | 2522 |
| POWer:QUALity:RESult:POWer:PFACtor?.....       | 2522 |
| POWer:QUALity:RESult:POWer:PHASe?.....         | 2522 |
| POWer:QUALity:RESult:POWer:REACtive?.....      | 2522 |
| POWer:QUALity:RESult:POWer:REALpower?.....     | 2522 |
| POWer:QUALity:RESult:VOLTage:CREStfactor?..... | 2522 |
| POWer:QUALity:RESult:VOLTage:FREQuency?.....   | 2522 |
| POWer:QUALity:RESult:VOLTage:PEAK?.....        | 2522 |
| POWer:QUALity:RESult:VOLTage:RMS?.....         | 2522 |

**POWER:QUALity:AUTO** <Autoscale>

Selects the scaling for the display of the results.

### Parameters:

<Autoscale>      AUTO | MANUAL  
\*RST:            MANUAL

**POWER:QUALity:EXECute**

Starts the power quality measurement.

**Usage:** `Event`

**POWER:QUALITY:FREQ** <Frequency>

Sets the input frequency of the source signal in Hz.

### Parameters:

```
<Frequency>      F50 | F60 | F360 | F400 | F650 | F800 | NFF650 | WFF800 |
                  FCUS
                  NFF650: 360 to 650 Hz
                  WFF800: 360 to 800 Hz
                  FCUS: user-defined frequency to be set using PwER:
                  QUALity:FCUS.
                  *RST:      F50
```

**POWER:QUALity:FCUS** <CustomFrequency>

Sets the user-defined frequency if `POWER:QUALity:FREQ` is set to `FCUS`.

### Parameters:

<CustomFrequency> Range: 1 to 5000  
Increment: 1  
\*RST: 16.666  
Default unit: Hz

**Firmware/software:** Version 2.70

# POWEr:QUALity:REPort:ADD

Adds the result to the report list.

**Usage:** `Event`

**POWER:QUALity:RESUlt:CURRent:CREStfactor?**

**POWER:QUALITY:RESuLT:CURREnt:FREQUency?**

**POWER:QUALITY:RESUlt:CURRent:PEAK?**

**POWER:QUALITY:RESUlt:CURRent:RMS?**

POWER:QUALity:RESult:POWer:APParent?  
POWER:QUALity:RESult:POWer:PFACtor?  
POWER:QUALity:RESult:POWer:PHASe?  
POWER:QUALity:RESult:POWer:REACTIVE?  
POWER:QUALity:RESult:POWer:REALpower?  
POWER:QUALity:RESult:VOLTage:CREStfactor?  
POWER:QUALity:RESult:VOLTage:FREQUency?  
POWER:QUALity:RESult:VOLTage:PEAK?  
POWER:QUALity:RESult:VOLTage:RMS?

Returns the value of the respective result.

### Return values:

|         |               |                                   |
|---------|---------------|-----------------------------------|
| <Value> | Range:        | Depends on the measured quantity. |
|         | Default unit: | Depends on the measured quantity. |

**Usage:** Query only

### 23.23.5 Inrush current

This measurement is a single shot measurement. To start the measurement, use the `RUNS` command.

|                                 |      |
|---------------------------------|------|
| POWER:INRush:ADD.....           | 2522 |
| POWER:INRush:INsert.....        | 2522 |
| POWER:INRush:REMove.....        | 2523 |
| POWER:INRush:COUNT?.....        | 2523 |
| POWER:INRush:EXECute.....       | 2523 |
| POWER:INRush:GATE<m>:START..... | 2523 |
| POWER:INRush:GATE<m>:STOP.....  | 2523 |
| POWER:INRush:GATE<m>:VALue..... | 2523 |
| POWER:INRush:MAXCurrent.....    | 2524 |
| POWER:INRush:TRIGger.....       | 2524 |
| POWER:INRush:REPort:ADD.....    | 2524 |

**POWER:INRush:ADD**

Adds a gate.

**Usage:** Event

**POWER:INRush:INSert** <GateIndex>

Inserts a gate.

### Setting parameters:

<GateIndex>

|               |              |
|---------------|--------------|
| <b>Usage:</b> | Setting only |
|---------------|--------------|

---

**POWER:INRush:REMove** <GateIndex>

Removes a gate

**Setting parameters:**

<GateIndex>

**Usage:** Setting only

---

**POWER:INRush:COUNT?**

Queires the number of inrush current gates.

**Return values:**

<Count>

**Usage:** Query only

---

**POWER:INRush:EXECute**

Starts the inrush current measurement.

**Usage:** Event

---

**POWER:INRush:GATE<m>:START** <StartTime>**POWER:INRush:GATE<m>:STOP** <StopTime>

Sets the measuring time for the selected gate.

**Suffix:**

<m> \*

**Parameters:**

<StopTime>      Range:      0 to 10  
                         Increment: 0  
                         \*RST:      100E-6  
                         Default unit: s

---

**POWER:INRush:GATE<m>:VALue** <Value>

Returns the value of the inrush current.

**Suffix:**

<m> \*

**Parameters:**

<Value>            Range:      -1000 to 1000  
                         Increment: 0  
                         \*RST:      0  
                         Default unit: A

**POWER:INRush:MAXCurrent** <MaxExpCurr>

Sets the maximum expected current for the vertical scale.

**Parameters:**

<MaxExpCurr>      Range:      -1000 to 1000  
                          Increment:    0  
                          \*RST:        10  
                          Default unit: A

**POWER:INRush:TRIGger** <CurrentValue>

Sets the current value for the trigger.

**Parameters:**

<CurrentValue>      Range:      -1000 to 1000  
                          Increment:    0  
                          \*RST:        1  
                          Default unit: A

**POWER:INRush:REPort:ADD**

Adds the result to the report list.

**Usage:**                      Event

**23.23.6 Current harmonic**

|                                                    |      |
|----------------------------------------------------|------|
| POWER:HARMonics:AUTO.....                          | 2524 |
| POWER:HARMonics:DOFR.....                          | 2525 |
| POWER:HARMonics:ENFR.....                          | 2525 |
| POWER:HARMonics:MIFR.....                          | 2525 |
| POWER:HARMonics:EVAL.....                          | 2525 |
| POWER:HARMonics:EXECute.....                       | 2525 |
| POWER:HARMonics:REPort:ADD.....                    | 2525 |
| POWER:HARMonics:RESult<m>:STDinuse?.....           | 2525 |
| POWER:HARMonics:RESult<m>:FREQuency<n>:VALue?..... | 2526 |
| POWER:HARMonics:RESult<m>:MAXValue<n>:VALue?.....  | 2526 |
| POWER:HARMonics:RESult<m>:STDValue<n>:VALue?.....  | 2526 |
| POWER:HARMonics:RESult<m>:VALue<n>:VALue?.....     | 2526 |
| POWER:HARMonics:STAN.....                          | 2526 |
| POWER:HARMonics:VOLT.....                          | 2526 |

**POWER:HARMonics:AUTO** <Autoscale>

Selects the scaling for the display of the results.

**Parameters:**

<Autoscale>              AUTO | MANUAL  
                          \*RST:        MANUAL



---

**POWer:HARMonics:DOFR** <FrequencyDOA160>

Selects the frequency of the input signal.

**Parameters:**

<FrequencyDOA160> F360 | F400 | F650 | F800

\*RST: F400

---

**POWer:HARMonics:ENFR** <FreqEN61000>

Selects the frequency of the input signal.

**Parameters:**

<FreqEN61000> F50 | F60

\*RST: F50

---

**POWer:HARMonics:MIFR** <FreqMIL1399>

Selects the frequency of the input signal.

**Parameters:**

<FreqMIL1399> F400 | F60

\*RST: F400

---

**POWer:HARMonics:EVAL** <AnalysisRevised>

Sets the evaluation of the results for "Standard" > "RTCA DO-160".

**Parameters:**

<AnalysisRevised> REVISED | NOREVISED

\*RST: NOREVISED

---

**POWer:HARMonics:EXECute**

Starts the current harmonic measurement.

**Usage:** Event

---

**POWer:HARMonics:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

**POWer:HARMonics:RESult<m>:STDinuse?**

Returns the used standard.

**Suffix:**

<m> 1..2

---

**Return values:**

<StandardInUse> ENA | ENB | ENC | END | MIL | RTC  
 \*RST: ENA

**Usage:** Query only

**POWER:HARMonics:RESult<m>:FREQuency<n>:VALue?**

**POWER:HARMonics:RESult<m>:MAXValue<n>:VALue?**

**POWER:HARMonics:RESult<m>:STDValue<n>:VALue?**

**POWER:HARMonics:RESult<m>:VALue<n>:VALue?**

Returns the value of the respective result.

**Suffix:**

<m> 1..2

<n> \*

**Return values:**

<Value> Range: -1000 to 1000  
 \*RST: 0  
 Default unit: A

**Usage:** Query only

**POWER:HARMonics:STAN <StandardInUse>**

Sets a standard for the current harmonic measurement.

**Parameters:**

<StandardInUse> ENA | ENB | ENC | END | MIL | RTC  
 \*RST: ENA

**POWER:HARMonics:VOLT <DOADisplayResult>**

Selects if the voltage results are displayed or not for "Standard" > "RTCA DO-160" and enabled "Evaluation with voltage source and revised current law".

**Parameters:**

<DOADisplayResult> VOLTDISP | NOVOLTDISP  
 \*RST: NOVOLTDISP

**Example:**

POW:HARM:STAN RTC  
 POW:HARM:EVAL REVISED  
 POW:HARM:VOLT NOVOLTDISP

Selects an evaluation with the revised current law and no voltage display.

### 23.23.7 Modulation analysis

This measurement is a single shot measurement. To start the measurement, use the **RUNS** command.

|                                                |      |
|------------------------------------------------|------|
| <b>POWER:MODulation:AUTO</b> .....             | 2527 |
| <b>POWER:MODulation:DHISistogram</b> .....     | 2527 |
| <b>POWER:MODulation:EXECute</b> .....          | 2527 |
| <b>POWER:MODulation:REPort:ADD</b> .....       | 2527 |
| <b>POWER:MODulation:RESult:ACTual?</b> .....   | 2528 |
| <b>POWER:MODulation:RESult:AVG?</b> .....      | 2528 |
| <b>POWER:MODulation:RESult:EVTCount?</b> ..... | 2528 |
| <b>POWER:MODulation:RESult:NPEak?</b> .....    | 2528 |
| <b>POWER:MODulation:RESult:PPEak?</b> .....    | 2528 |
| <b>POWER:MODulation:RESult:RMS?</b> .....      | 2528 |
| <b>POWER:MODulation:RESult:STDDev?</b> .....   | 2528 |
| <b>POWER:MODulation:RESult:WFMCount?</b> ..... | 2528 |
| <b>POWER:MODulation:SOURce</b> .....           | 2528 |
| <b>POWER:MODulation:TYPE</b> .....             | 2528 |

---

#### **POWER:MODulation:AUTO** <Autoscale>

Selects the scaling for the display of the results.

##### **Parameters:**

<Autoscale>            AUTO | MANUAL  
                              \*RST:        MANUAL

---

#### **POWER:MODulation:DHISistogram** <DispHistg>

Activates or deactivates the display of a histogram.

##### **Parameters:**

<DispHistg>            ON | OFF  
                              \*RST:        ON

---

#### **POWER:MODulation:EXECute**

Starts the modulation analysis measurement.

##### **Usage:**

Event  
 Asynchronous command

---

#### **POWER:MODulation:REPort:ADD**

Adds the result to the report list.

##### **Usage:**

Event

---

**POWer:MODulation:RESult:ACTual?** <MeasType>  
**POWer:MODulation:RESult:AVG?** <MeasType>  
**POWer:MODulation:RESult:EVTCount?** <MeasType>  
**POWer:MODulation:RESult:NPEak?** <MeasType>  
**POWer:MODulation:RESult:PPEak?** <MeasType>  
**POWer:MODulation:RESult:RMS?** <MeasType>  
**POWer:MODulation:RESult:STDDev?** <MeasType>  
**POWer:MODulation:RESult:WFMCount?** <MeasType>

Return the specified statistic result of the specified measurement type.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<MeasType>           FREQ | DUTY

**Usage:**               Query only

---

**POWer:MODulation:SOURce** <Source>

Selects the source for the measurement.

**Parameters:**

<Source>               CURRENT | VOLTAGE  
                           \*RST:        VOLTAGE

---

**POWer:MODulation:TYPE** <AnalysisType>

Sets the type of measurement.

**Parameters:**

<AnalysisType>       TURNON | CONT  
                           \*RST:        CONT

### 23.23.8 Dynamic ON resistance

|                                                        |      |
|--------------------------------------------------------|------|
| <a href="#">POWer:DONRes:AUTO</a> .....                | 2529 |
| <a href="#">POWer:DONRes:AVG</a> .....                 | 2529 |
| <a href="#">POWer:DONRes:EXECute</a> .....             | 2529 |
| <a href="#">POWer:DONRes:GATE&lt;m&gt;:START</a> ..... | 2529 |
| <a href="#">POWer:DONRes:GATE&lt;m&gt;:STOP</a> .....  | 2529 |
| <a href="#">POWer:DONRes:REPort:ADD</a> .....          | 2529 |
| <a href="#">POWer:DONRes:RESult:RESistance?</a> .....  | 2529 |

---

**POWER:DONRes:AUTO** <Autoscale>

Selects the scaling for the display of the results.

**Parameters:**

<Autoscale>            AUTO | MANUAL  
                         \*RST:        MANUAL

---

**POWER:DONRes:AVG** <Average>

Enables/disables averaging.

**Parameters:**

<Average>            ON | OFF  
                         \*RST:        ON

---

**POWER:DONRes:EXECute**

Starts the dynamic on resistance measurement.

**Usage:**

Event  
Asynchronous command

---

**POWER:DONRes:GATE<m>:START** <Start>**POWER:DONRes:GATE<m>:STOP** <Stop>

Sets the value for the cursor.

**Suffix:**

<m>                    1..2

**Parameters:**

<Stop>

---

**POWER:DONRes:REPort:ADD**

Adds the result to the report list.

**Usage:**

Event

---

**POWER:DONRes:RESult:RESistance?**

Returns the the dynamic on resistance value.

**Return values:**

<Resistance>        Range:        -100E+24 to 100E+24  
                         \*RST:        0  
                         Default unit: \x2126

**Usage:**

Query only

### 23.23.9 Slew rate

|                                      |      |
|--------------------------------------|------|
| POWer:SLEWrate:SOURce.....           | 2530 |
| POWer:SLEWrate:AUTO.....             | 2530 |
| POWer:SLEWrate:AVGDeriv.....         | 2530 |
| POWer:SLEWrate:EXECute.....          | 2530 |
| ACQuire:ARESet:MODE.....             | 2531 |
| ACQuire:ARESet:TIME.....             | 2531 |
| ACQuire:ARESet:COUNT.....            | 2531 |
| POWer:SLEWrate:GATE:START.....       | 2531 |
| POWer:SLEWrate:GATE:STOP.....        | 2531 |
| POWer:SLEWrate:REPort:ADD.....       | 2532 |
| POWer:SLEWrate:RESult:ACTual?.....   | 2532 |
| POWer:SLEWrate:RESult:AVG?.....      | 2532 |
| POWer:SLEWrate:RESult:EVTCount?..... | 2532 |
| POWer:SLEWrate:RESult:NPEak?.....    | 2532 |
| POWer:SLEWrate:RESult:PPEak?.....    | 2532 |
| POWer:SLEWrate:RESult:RMS?.....      | 2532 |
| POWer:SLEWrate:RESult:STDDev?.....   | 2532 |
| POWer:SLEWrate:RESult:WFMCount?..... | 2532 |

---

#### **POWer:SLEWrate:SOURce** <Source>

Selects the source for the slew rate measurement.

##### **Parameters:**

<Source>                      CURRENT | VOLTAGE  
                                  \*RST:            VOLTAGE

---

#### **POWer:SLEWrate:AUTO** <Autoscale>

Selects the scaling for the display of the results.

##### **Parameters:**

<Autoscale>                      AUTO | MANUAL  
                                  \*RST:            MANUAL

---

#### **POWer:SLEWrate:AVGDeriv** <AvgDerivative>

Activates or deactivates average.

##### **Parameters:**

<AvgDerivative>                      ON | OFF  
                                  \*RST:            ON

---

#### **POWer:SLEWrate:EXECute**

Starts the slew rate measurement.

**Usage:**                      Event

---

**ACQuire:ARESet:MODE** <ArMSt>

Defines when the envelope and average evaluation restarts.

**Parameters:**

<ArMSt> NONE | TIME | WFMS

**TIME**

Restarts the envelope and average calculation after the time defined with [ACQuire:ARESet:TIME](#).

**WFMS**

Restarts the envelope and average calculation after a number of acquired waveforms defined with [ACQuire:ARESet:COUNT](#) on page 1337.

\*RST: NONE

**Usage:** Asynchronous command

---

**ACQuire:ARESet:TIME** <EnvelopeTimeout>

Defines the time after which the envelope and average evaluation restarts.

The setting is relevant if [ACQuire:ARESet:MODE](#) is set to TIME.

**Parameters:**

<EnvelopeTimeout> Range: 0.1 to 10000  
Increment: 0.01  
\*RST: 0.1  
Default unit: s

**Usage:** Asynchronous command

---

**ACQuire:ARESet:COUNT** <NofWaveforms>

Defines the number of acquired waveforms after which the envelope and average evaluation restarts.

The setting is relevant if [ACQuire:ARESet:MODE](#) is set to WFMS.

**Parameters:**

<NofWaveforms> Range: 2 to 16777215  
Increment: 10  
\*RST: 1000

**Usage:** Asynchronous command

---

**POWer:SLEWrate:GATE:START** <T0>**POWer:SLEWrate:GATE:STOP** <T1>

Sets the value for the cursor.

**Parameters:**

<T1>

**POWer:SLEWrate:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

**POWer:SLEWrate:RESult:ACTual? <MeasType>**  
**POWer:SLEWrate:RESult:AVG? <MeasType>**  
**POWer:SLEWrate:RESult:EVTCount? <MeasType>**  
**POWer:SLEWrate:RESult:NPEak? <MeasType>**  
**POWer:SLEWrate:RESult:PPEak? <MeasType>**  
**POWer:SLEWrate:RESult:RMS? <MeasType>**  
**POWer:SLEWrate:RESult:STDDev? <MeasType>**  
**POWer:SLEWrate:RESult:WFMCount? <MeasType>**

Return the specified statistic result of the specified measurement type.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<MeasType> MIN | MAX

**Usage:** Query only

**23.23.10 S.O.A**

|                                             |      |
|---------------------------------------------|------|
| POWer:SOA:EXECute.....                      | 2533 |
| POWer:SOA:LINear:ADD.....                   | 2533 |
| POWer:SOA:LOGarithmic:ADD.....              | 2533 |
| POWer:SOA:LINear:COUNt?.....                | 2533 |
| POWer:SOA:LOGarithmic:COUNt?.....           | 2533 |
| POWer:SOA:LINear:REMove.....                | 2533 |
| POWer:SOA:LOGarithmic:REMove.....           | 2533 |
| POWer:SOA:LINear:INSert.....                | 2533 |
| POWer:SOA:LOGarithmic:INSert.....           | 2533 |
| POWer:SOA:LINear:POINt<m>:CURRent.....      | 2533 |
| POWer:SOA:LOGarithmic:POINt<m>:CURRent..... | 2533 |
| POWer:SOA:LINear:POINt<m>:VOLTage.....      | 2534 |
| POWer:SOA:LOGarithmic:POINt<m>:VOLTage..... | 2534 |
| POWer:SOA:MASK.....                         | 2534 |
| POWer:SOA:REPort:ADD.....                   | 2534 |
| POWer:SOA:SCALE.....                        | 2534 |
| POWer:SOA:SWITCh.....                       | 2534 |



---

**POWer:SOA:EXECute**

Starts the safe operating area measurement.

**Usage:** Event

---

**POWer:SOA:LINear:ADD****POWer:SOA:LOGarithmic:ADD**

Adds a point.

**Usage:** Event

---

**POWer:SOA:LINear:COUNt?****POWer:SOA:LOGarithmic:COUNt?**

Queries the number of points.

**Return values:**

<Count>

**Usage:** Query only

---

**POWer:SOA:LINear:REMOve <GateIndex>****POWer:SOA:LOGarithmic:REMOve <GateIndex>**

Removes a point.

**Setting parameters:**

<GateIndex>

**Usage:** Setting only

---

**POWer:SOA:LINear:INSert <GateIndex>****POWer:SOA:LOGarithmic:INSert <GateIndex>**

Inserts a point.

**Setting parameters:**

<GateIndex>

**Usage:** Setting only

---

**POWer:SOA:LINear:POINt<m>:CURRent <Amp>****POWer:SOA:LOGarithmic:POINt<m>:CURRent <Amp>**

Sets the current value for the respective point.

**Suffix:**

<m> \*

**Parameters:**

<Amp>                      Range:      0.01 to 1000  
                                  Increment: 0  
                                  \*RST:      0.01  
                                  Default unit: A

**POWER:SOA:LINEar:POINT<m>:VOLTage <Volt>**

**POWER:SOA:LOGarithmic:POINT<m>:VOLTage <Volt>**

Sets the voltage value for the respective point.

**Suffix:**

<m>                              \*

**Parameters:**

<Volt>                         Range:      1E-3 to 1000  
                                  Increment: 0  
                                  \*RST:      1E-3  
                                  Default unit: V

**POWER:SOA:MASK <EnableMaskTest>**

Activates or deactivates a mask.

**Parameters:**

<EnableMaskTest>    ON | OFF  
                                  \*RST:      OFF

**POWER:SOA:REPort:ADD**

Adds the result to the report list.

**Usage:**                      Event

**POWER:SOA:SCALE <Scale>**

Sets the scale for the measurement.

**Parameters:**

<Scale>                         LOG | LINEAR  
                                  \*RST:      LOG

**POWER:SOA:SWITCh <Switch>**

Switches between linear and logarithmic scale.

**Parameters:**

<Switch>                         LOGLINEAR | LINEARLOG  
                                  \*RST:      LOGLINEAR

### 23.23.11 Turn on/off

This measurement is a single shot measurement. To start the measurement, use the **RUNS** command.

|                                       |      |
|---------------------------------------|------|
| <b>POWER:ONOFF:ATOff</b> .....        | 2535 |
| <b>POWER:ONOFF:ATON</b> .....         | 2535 |
| <b>POWER:ONOFF:DTOFf</b> .....        | 2535 |
| <b>POWER:ONOFF:DTON</b> .....         | 2535 |
| <b>POWER:ONOFF:DSOFf</b> .....        | 2535 |
| <b>POWER:ONOFF:DSON</b> .....         | 2535 |
| <b>POWER:ONOFF:EXECute</b> .....      | 2535 |
| <b>POWER:ONOFF:INPut</b> .....        | 2536 |
| <b>POWER:ONOFF:REPort:ADD</b> .....   | 2536 |
| <b>POWER:ONOFF:RESult:TOff?</b> ..... | 2536 |
| <b>POWER:ONOFF:RESult:TOn?</b> .....  | 2536 |
| <b>POWER:ONOFF:TIME</b> .....         | 2536 |
| <b>POWER:ONOFF:TYPE</b> .....         | 2536 |

---

**POWER:ONOFF:ATOff** <ACTrigLevOff>

**POWER:ONOFF:ATON** <ACTrigLevOn>

Triggers the beginning of the measurements at the moment the AC input voltage reaches the set value.

**Parameters:**

|               |                      |
|---------------|----------------------|
| <ACTrigLevOn> | Range: -1E+6 to 1E+6 |
|               | Increment: 1E-3      |
|               | *RST: 10             |
|               | Default unit: V      |

---

**POWER:ONOFF:DTOFf** <ACTrigLevOff>

**POWER:ONOFF:DTON** <ACTrigLevOn>

**POWER:ONOFF:DSOFf** <StateLevelOff>

**POWER:ONOFF:DSON** <StateLevelOn>

Sets the percentage of the steady state level of the DC output that has to be reached.

**Parameters:**

|                |                 |
|----------------|-----------------|
| <StateLevelOn> | Range: 0 to 100 |
|                | Increment: 1    |
|                | *RST: 90        |
|                | Default unit: % |

---

**POWER:ONOFF:EXECute**

Starts the turn on/off measurement.

**Usage:** Event

---

**POWER:ONOFF:INPut <InputType>**

Sets the input type.

**Parameters:**

|             |         |
|-------------|---------|
| <InputType> | AC   DC |
| *RST:       | AC      |

---

**POWER:ONOFF:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

**POWER:ONOFF:RESult:TOFF?****POWER:ONOFF:RESult:TON?**

Returns the result time.

**Return values:**

|              |               |                     |
|--------------|---------------|---------------------|
| <TurnOnTime> | Range:        | -100E+24 to 100E+24 |
|              | Increment:    | 100E-12             |
|              | *RST:         | 0                   |
|              | Default unit: | s                   |

**Usage:** Query only

---

**POWER:ONOFF:TIME <Time>**

Sets the time, the start of the measurement of the turn off time is delay with, after the trigger point.

**Parameters:**

|        |               |                  |
|--------|---------------|------------------|
| <Time> | Range:        | 100E-12 to 10000 |
|        | Increment:    | 100E-9           |
|        | *RST:         | 0.1              |
|        | Default unit: | s                |

---

**POWER:ONOFF:TYPE <MeasType>**

Selects the measurement type.

**Parameters:**

|            |                               |
|------------|-------------------------------|
| <MeasType> | TON   TOFF                    |
|            | TON - "Turn on" measurement   |
|            | TOFF - "Turn off" measurement |
| *RST:      | TON                           |

### 23.23.12 Switching loss

|                                              |      |
|----------------------------------------------|------|
| POWer:SWITching:AUTO.....                    | 2537 |
| POWer:SWITching:EXECute.....                 | 2537 |
| POWer:SWITching:REPort:ADD.....              | 2538 |
| POWer:SWITching:SWIFrequency.....            | 2538 |
| POWer:SWITching:SWIT.....                    | 2538 |
| POWer:SWITching:COND.....                    | 2538 |
| POWer:SWITching:NCON.....                    | 2538 |
| POWer:SWITching:TON.....                     | 2538 |
| POWer:SWITching:TOFF.....                    | 2538 |
| POWer:SWITching:TOTal.....                   | 2538 |
| POWer:SWITching:GATE:COND:START.....         | 2538 |
| POWer:SWITching:GATE:COND:STOP.....          | 2538 |
| POWer:SWITching:GATE:NCON:START.....         | 2538 |
| POWer:SWITching:GATE:TOFF:START.....         | 2538 |
| POWer:SWITching:GATE:TOFF:STOP.....          | 2538 |
| POWer:SWITching:GATE:TON:START.....          | 2538 |
| POWer:SWITching:GATE:TON:STOP.....           | 2538 |
| POWer:SWITching:RESult:ENERgy:ACTual?.....   | 2539 |
| POWer:SWITching:RESult:ENERgy:AVG?.....      | 2539 |
| POWer:SWITching:RESult:ENERgy:EVTCount?..... | 2539 |
| POWer:SWITching:RESult:ENERgy:NPEak?.....    | 2539 |
| POWer:SWITching:RESult:ENERgy:PPEak?.....    | 2539 |
| POWer:SWITching:RESult:ENERgy:RMS?.....      | 2539 |
| POWer:SWITching:RESult:ENERgy:STDDev?.....   | 2539 |
| POWer:SWITching:RESult:ENERgy:WFMCount?..... | 2539 |
| POWer:SWITching:RESult:POWer:ACTual?.....    | 2539 |
| POWer:SWITching:RESult:POWer:AVG?.....       | 2539 |
| POWer:SWITching:RESult:POWer:EVTCount?.....  | 2539 |
| POWer:SWITching:RESult:POWer:NPEak?.....     | 2539 |
| POWer:SWITching:RESult:POWer:PPEak?.....     | 2539 |
| POWer:SWITching:RESult:POWer:RMS?.....       | 2539 |
| POWer:SWITching:RESult:POWer:STDDev?.....    | 2539 |
| POWer:SWITching:RESult:POWer:WFMCount?.....  | 2539 |

---

#### POWer:SWITching:AUTO <Autoscale>

Selects the scaling for the display of the results.

##### Parameters:

<Autoscale>            AUTO | MANUAL  
                              \*RST:        MANUAL

---

#### POWer:SWITching:EXECute

Starts the switching loss measurement.

##### Usage:

Event  
 Asynchronous command

---

**POWer:SWITching:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

---

**POWer:SWITching:SWIFrequency <SwitchingFreq>**

Sets the switching frequency.

**Parameters:**

<SwitchingFreq>      Range:      1 to 500E+9  
                         Increment: 1000  
                         \*RST:      10E+6  
                         Default unit: Hz

---

---

**POWer:SWITching:SWIT <MeasSwitchingFreq>**

Activates or deactivates the measurements of the switching frequency.

**Parameters:**

<MeasSwitchingFreq>ON | OFF  
                         \*RST:      ON

---

---

**POWer:SWITching:COND <MeasureConduction>****POWer:SWITching:NCON <MeasureNonConduction>****POWer:SWITching:TON <MeasureTurnOn>****POWer:SWITching:TOFF <MeasureTurnOff>****POWer:SWITching:TOTaI <MeasureTotal>**

Enables the measurement during the respective period.

**Parameters:**

<MeasureTotal>      ON | OFF  
                         \*RST:      ON

---

---

**POWer:SWITching:GATE:COND:START <T1>****POWer:SWITching:GATE:COND:STOP <T2>****POWer:SWITching:GATE:NCON:START <T3>****POWer:SWITching:GATE:TOFF:START <T2>****POWer:SWITching:GATE:TOFF:STOP <T3>****POWer:SWITching:GATE:TON:START <T0>****POWer:SWITching:GATE:TON:STOP <T1>**

Sets the value for the respective cursor.

**Parameters:**

<T1>

---

---

**POWER:SWITching:RESult:ENERgy:ACTual? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:AVG? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:EVTCount? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:NPEak? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:PPEak? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:RMS? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:STDDev? <MeasType>**  
**POWER:SWITching:RESult:ENERgy:WFMCount? <MeasType>**

Return the specified statistic result of the specified measurement type.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<MeasType> SWF | TON | TOF | CON | NCO | TOT

**Usage:** Query only

---

**POWER:SWITching:RESult:POWer:ACTual? <MeasType>**  
**POWER:SWITching:RESult:POWer:AVG? <MeasType>**  
**POWER:SWITching:RESult:POWer:EVTCount? <MeasType>**  
**POWER:SWITching:RESult:POWer:NPEak? <MeasType>**  
**POWER:SWITching:RESult:POWer:PPEak? <MeasType>**  
**POWER:SWITching:RESult:POWer:RMS? <MeasType>**  
**POWER:SWITching:RESult:POWer:STDDev? <MeasType>**  
**POWER:SWITching:RESult:POWer:WFMCount? <MeasType>**

Return the specified statistic result of the specified measurement type.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<MeasType> SWF | TON | TOF | CON | NCO | TOT

**Usage:** Query only

### 23.23.13 Power efficiency

|                                           |      |
|-------------------------------------------|------|
| POWer:EFFiciency:AUTO.....                | 2540 |
| POWer:EFFiciency:EXECute.....             | 2540 |
| POWer:EFFiciency:REPort:ADD.....          | 2540 |
| POWer:EFFiciency:RESult<m>:ACTual?.....   | 2540 |
| POWer:EFFiciency:RESult<m>:AVG?.....      | 2540 |
| POWer:EFFiciency:RESult<m>:EVTCount?..... | 2540 |
| POWer:EFFiciency:RESult<m>:NPEak?.....    | 2540 |
| POWer:EFFiciency:RESult<m>:PPEak?.....    | 2540 |
| POWer:EFFiciency:RESult<m>:RMS?.....      | 2540 |
| POWer:EFFiciency:RESult<m>:STDDDev?.....  | 2540 |
| POWer:EFFiciency:RESult<m>:WFMCount?..... | 2540 |

---

#### **POWer:EFFiciency:AUTO** <Autoscale>

Selects the scaling for the display of the results.

##### **Parameters:**

<Autoscale>            AUTO | MANUAL  
                              \*RST:        MANUAL

---

#### **POWer:EFFiciency:EXECute**

Starts the power efficiency measurement.

**Usage:**                Event

---

#### **POWer:EFFiciency:REPort:ADD**

Adds the result to the report list.

**Usage:**                Event

---

**POWer:EFFiciency:RESult<m>:ACTual?**  
**POWer:EFFiciency:RESult<m>:AVG?**  
**POWer:EFFiciency:RESult<m>:EVTCount?**  
**POWer:EFFiciency:RESult<m>:NPEak?**  
**POWer:EFFiciency:RESult<m>:PPEak?**  
**POWer:EFFiciency:RESult<m>:RMS?**  
**POWer:EFFiciency:RESult<m>:STDDDev?**  
**POWer:EFFiciency:RESult<m>:WFMCount?**

Return the specified statistic result of the specified measurement type.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results



- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Suffix:**

&lt;m&gt; 1..3

**Return values:**

<WaveformsCount> Range: 0 to 4E+9  
 \*RST: 0

**Usage:** Query only

**23.23.14 Ripple**

|                                         |      |
|-----------------------------------------|------|
| POWer:RIPPlE:AUToscale.....             | 2542 |
| POWer:RIPPlE:CURRent.....               | 2542 |
| POWer:RIPPlE:EXECute.....               | 2543 |
| POWer:RIPPlE:FREQuency.....             | 2543 |
| POWer:RIPPlE:REPort:ADD.....            | 2543 |
| POWer:RIPPlE:RESult:FREQuency[:ACTual]? | 2543 |
| POWer:RIPPlE:RESult:FREQuency:AVG?      | 2543 |
| POWer:RIPPlE:RESult:FREQuency:EVTCount? | 2543 |
| POWer:RIPPlE:RESult:FREQuency:NPEak?    | 2543 |
| POWer:RIPPlE:RESult:FREQuency:PPEak?    | 2543 |
| POWer:RIPPlE:RESult:FREQuency:RMS?      | 2543 |
| POWer:RIPPlE:RESult:FREQuency:STDDev?   | 2543 |
| POWer:RIPPlE:RESult:FREQuency:WFMCount? | 2543 |
| POWer:RIPPlE:RESult:MAXimum[:ACTual]?   | 2544 |
| POWer:RIPPlE:RESult:MAXimum:AVG?        | 2544 |
| POWer:RIPPlE:RESult:MAXimum:EVTCount?   | 2544 |
| POWer:RIPPlE:RESult:MAXimum:NPEak?      | 2544 |
| POWer:RIPPlE:RESult:MAXimum:PPEak?      | 2544 |
| POWer:RIPPlE:RESult:MAXimum:RMS?        | 2544 |
| POWer:RIPPlE:RESult:MAXimum:STDDev?     | 2544 |
| POWer:RIPPlE:RESult:MAXimum:WFMCount?   | 2544 |
| POWer:RIPPlE:RESult:MINimum[:ACTual]?   | 2544 |
| POWer:RIPPlE:RESult:MINimum:AVG?        | 2544 |
| POWer:RIPPlE:RESult:MINimum:EVTCount?   | 2544 |
| POWer:RIPPlE:RESult:MINimum:NPEak?      | 2544 |
| POWer:RIPPlE:RESult:MINimum:PPEak?      | 2544 |
| POWer:RIPPlE:RESult:MINimum:RMS?        | 2544 |
| POWer:RIPPlE:RESult:MINimum:STDDev?     | 2544 |
| POWer:RIPPlE:RESult:MINimum:WFMCount?   | 2544 |
| POWer:RIPPlE:RESult:NDCYcle[:ACTual]?   | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:AVG?        | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:EVTCount?   | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:NPEak?      | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:PPEak?      | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:RMS?        | 2545 |

|                                       |      |
|---------------------------------------|------|
| POWer:RIPPlE:RESult:NDCYcle:STDDev?   | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:WFMCount? | 2545 |
| POWer:RIPPlE:RESult:PDCYcle[:ACTual]? | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:AVG?      | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:EVTCount? | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:NPEak?    | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:PPEak?    | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:RMS?      | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:STDDev?   | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:WFMCount? | 2545 |
| POWer:RIPPlE:RESult:PDEL[:ACTual]?    | 2546 |
| POWer:RIPPlE:RESult:PDEL:AVG?         | 2546 |
| POWer:RIPPlE:RESult:PDEL:EVTCount?    | 2546 |
| POWer:RIPPlE:RESult:PDEL:NPEak?       | 2546 |
| POWer:RIPPlE:RESult:PDEL:PPEak?       | 2546 |
| POWer:RIPPlE:RESult:PDEL:RMS?         | 2546 |
| POWer:RIPPlE:RESult:PDEL:STDDev?      | 2546 |
| POWer:RIPPlE:RESult:PDEL:WFMCount?    | 2546 |
| POWer:RIPPlE:RESult:PERiod[:ACTual]?  | 2546 |
| POWer:RIPPlE:RESult:PERiod:AVG?       | 2546 |
| POWer:RIPPlE:RESult:PERiod:EVTCount?  | 2546 |
| POWer:RIPPlE:RESult:PERiod:NPEak?     | 2546 |
| POWer:RIPPlE:RESult:PERiod:PPEak?     | 2546 |
| POWer:RIPPlE:RESult:PERiod:RMS?       | 2547 |
| POWer:RIPPlE:RESult:PERiod:STDDev?    | 2547 |
| POWer:RIPPlE:RESult:PERiod:WFMCount?  | 2547 |
| POWer:RIPPlE:RESult:STDDev[:ACTual]?  | 2547 |
| POWer:RIPPlE:RESult:STDDev:AVG?       | 2547 |
| POWer:RIPPlE:RESult:STDDev:EVTCount?  | 2547 |
| POWer:RIPPlE:RESult:STDDev:NPEak?     | 2547 |
| POWer:RIPPlE:RESult:STDDev:PPEak?     | 2547 |
| POWer:RIPPlE:RESult:STDDev:RMS?       | 2547 |
| POWer:RIPPlE:RESult:STDDev:STDDev?    | 2547 |
| POWer:RIPPlE:RESult:STDDev:WFMCount?  | 2547 |

---

#### **POWer:RIPPlE:AUToscale** <Autoscale>

Selects the scaling for the display of the results.

##### **Parameters:**

<Autoscale>            AUTO | MANUAL  
                              \*RST:        MANUAL

---

#### **POWer:RIPPlE:CURRent** <TwoChMeas>

Activates or deactivates the input current.

##### **Parameters:**

<TwoChMeas>            ON | OFF  
                              \*RST:        ON

---

**POWer:RIPPlE:EXECute**

Starts the ripple measurement.

**Usage:** Event

---

---

**POWer:RIPPlE:FREQuency <SmpsFrequency>**

Sets the SMPS switching frequency.

**Parameters:**

<SmpsFrequency> Range: 1 to 100E+9  
Increment: 1  
\*RST: 1E+6  
Default unit: Hz

---

---

**POWer:RIPPlE:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

---

**POWer:RIPPlE:RESult:FREQuency[:ACTual]? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:AVG? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:EVTCount? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:NPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:PPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:RMS? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:STDDev? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:FREQuency:WFMCount? [<VoltageMeasType>]**

Return the specified statistic result of the frequency of the signal. The result is based on the period measurement.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
\*RST: VOLTage

**Return values:**

<Result> Statistic result of the frequency

**Usage:** Query only

---

**POWer:RIPPlE:RESult:MAXimum[:ACTual]? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:AVG? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:EVTCount? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:NPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:PPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:RMS? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:STDDev? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MAXimum:WFMCCount? [<VoltageMeasType>]**

Return the specified statistic result for the maximum value of the waveform.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
 \*RST: VOLTage

**Return values:**

<Result>                      Statistic result

**Usage:**                      Query only

---

**POWer:RIPPlE:RESult:MINimum[:ACTual]? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:AVG? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:EVTCount? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:NPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:PPEak? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:RMS? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:STDDev? [<VoltageMeasType>]**  
**POWer:RIPPlE:RESult:MINimum:WFMCCount? [<VoltageMeasType>]**

Return the specified statistic result for the minimum value of the waveform.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
 \*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

---

**POWER:RIPPlE:RESult:NDCYcle[:ACTual]?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:AVG?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:EVTCount?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:NPEak?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:PPEak?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:RMS?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:STDDev?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:NDCYcle:WFMCount?** [<VoltageMeasType>]

Return the specified statistic result for the negative duty cycle. The measurement requires at least one complete period of a triggered signal.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
 \*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

---

**POWER:RIPPlE:RESult:PDCYcle[:ACTual]?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:AVG?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:EVTCount?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:NPEak?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:PPEak?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:RMS?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:STDDev?** [<VoltageMeasType>]  
**POWER:RIPPlE:RESult:PDCYcle:WFMCount?** [<VoltageMeasType>]

Return the specified statistic result for the positive duty cycle. The measurement requires at least one complete period of a triggered signal.

- [:ACTual]: current measurement result

- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
 \*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

---

**POWER:RIPple:RESult:PDEL[:ACTual]? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:AVG? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:EVTCount? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:NPEak? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:PPEak? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:RMS? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:STDDDev? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PDEL:WFMCount? [<VoltageMeasType>]**

Return the specified statistic result for the peak to peak measurement.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent  
 \*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

---

**POWER:RIPple:RESult:PERiod[:ACTual]? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PERiod:AVG? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PERiod:EVTCount? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PERiod:NPEak? [<VoltageMeasType>]**  
**POWER:RIPple:RESult:PERiod:PPEak? [<VoltageMeasType>]**

**POWER:RIPple:RESult:PERiod:RMS?** [<VoltageMeasType>]

**POWER:RIPple:RESult:PERiod:STDDev?** [<VoltageMeasType>]

**POWER:RIPple:RESult:PERiod:WFMCount?** [<VoltageMeasType>]

Return the specified statistic result for the period, the length of the left-most signal period of the waveform.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent

\*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

**POWER:RIPple:RESult:STDDev[:ACTual]?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:AVG?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:EVTCount?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:NPEak?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:PPEak?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:RMS?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:STDDev?** [<VoltageMeasType>]

**POWER:RIPple:RESult:STDDev:WFMCount?** [<VoltageMeasType>]

Return the specified statistic result for the standard deviation of the long-term measurement results.

- [:ACTual]: current measurement result
- AVG: average of the long-term measurement results
- EVTCount: number of measurement results in the long-term measurement
- NPEak: negative peak value of the long-term measurement results
- PPEak: positive peak value of the long-term measurement results
- RMS: RMS value of the long-term measurement results
- STDDev: standard deviation of the long-term measurement results

**Query parameters:**

<VoltageMeasType> VOLTage | CURRent

\*RST: VOLTage

**Return values:**

<Result> Statistic result

**Usage:** Query only

### 23.23.15 Transient response

This measurement is a single shot measurement. To start the measurement, use the **RUNS** command.

Proprogramming example: [Chapter 23.3.7.2, "Transient response measurement"](#), on page 1279

|                                                        |      |
|--------------------------------------------------------|------|
| <a href="#">POWER:TRANSient:AUToscale</a> .....        | 2548 |
| <a href="#">POWER:TRANSient:EXECute</a> .....          | 2548 |
| <a href="#">POWER:TRANSient:FREQuency</a> .....        | 2548 |
| <a href="#">POWER:TRANSient:HYSTeresis</a> .....       | 2548 |
| <a href="#">POWER:TRANSient:INPut</a> .....            | 2549 |
| <a href="#">POWER:TRANSient:REPort:ADD</a> .....       | 2549 |
| <a href="#">POWER:TRANSient:RESult[:ACTual]?</a> ..... | 2549 |
| <a href="#">POWER:TRANSient:SIGHigh</a> .....          | 2549 |
| <a href="#">POWER:TRANSient:SIGLow</a> .....           | 2549 |
| <a href="#">POWER:TRANSient:TRGChannel</a> .....       | 2550 |
| <a href="#">POWER:TRANSient:TRGLevel</a> .....         | 2550 |
| <a href="#">POWER:TRANSient:TRGSlope</a> .....         | 2550 |

---

#### **POWER:TRANSient:AUToscale** <Autoscale>

Selects the scaling for the display of the results.

##### **Parameters:**

<Autoscale>            AUTO | MANUAL  
                             \*RST:        MANUAL

---

#### **POWER:TRANSient:EXECute**

Starts the transient response measurement.

**Usage:** Event

---

#### **POWER:TRANSient:FREQuency** <SmplsFrequency>

Sets the SMPS switching frequency.

##### **Parameters:**

<SmplsFrequency>    Range:        1 to 100E+6  
                             Increment:    1  
                             \*RST:        1E+6  
                             Default unit: Hz

---

#### **POWER:TRANSient:HYSTeresis** <ToleranceTube>

Specifies a tolerated error band for the signal level.



**Parameters:**

<ToleranceTube>      Range:      0 to 50  
                              Increment:    1  
                              \*RST:        10  
                              Default unit: %

**POWer:TRANsient:INPut <ThreeChMeas>**

Activates or deactivates the input voltage.

**Parameters:**

<ThreeChMeas>      ON | OFF  
                              \*RST:        OFF

**POWer:TRANsient:REPort:ADD**

Adds the result to the report list.

**Usage:**                Event

**POWer:TRANsient:RESult[:ACTual]? <MeasType>**

Returns the results of the transient response measurement.

**Query parameters:**

<MeasType>            OVERshoot | RTIME | DELay | PEAKtime | SETTling

**Usage:**                Query only

**POWer:TRANsient:SIGHigh <ExpHighOutputSignLev>**

Sets the expected signal high voltage value.

**Parameters:**

<ExpHighOutputSignLev>      Range:      -1000 to 1000  
                                          Increment:    1E-3  
                                          \*RST:        1  
                                          Default unit: V

**POWer:TRANsient:SIGLow <ExpLowOutputSignLev>**

Sets the expected signal low voltage value.

**Parameters:**

<ExpLowOutputSignLev>      Range:      -1000 to 1000  
                                          Increment:    1E-3  
                                          \*RST:        0  
                                          Default unit: V

**POWer:TRANsient:TRGChannel** <TriggerSource>

Sets the source channel of the trigger.

**Parameters:**

<TriggerSource>      CHAN1 | CHANnel1 | CHAN2 | CHANnel2 | CHAN3 |  
                              CHANnel3 | CHAN4 | CHANnel4  
                              CHAN1 = CHANnel1, CHAN2 = CHANnel2, CHAN3 = CHAN-  
                              nel3, CHAN4 = CHANnel4  
                              Only the measurement source channels can be used as trigger  
                              source.  
                              \*RST:          CHAN1

**POWer:TRANsient:TRGLevel** <TriggerLevel>**Parameters:**

<TriggerLevel>      Range:        -1000 to 1000  
                              Increment: 1E-3  
                              \*RST:        0  
                              Default unit: V

**POWer:TRANsient:TRGSlope** <TriggerSlope>

Sets the edge type for the trigger event.

**Parameters:**

<TriggerSlope>      POSitive | NEGative | EITHer  
                              \*RST:        POSitive

**23.23.16 Spectrum**

|                                          |      |
|------------------------------------------|------|
| POWer:SPECtrum:AUToscale.....            | 2550 |
| POWer:SPECtrum:EXECute.....              | 2551 |
| POWer:SPECtrum:FREQuency.....            | 2551 |
| POWer:SPECtrum:REPort:ADD.....           | 2551 |
| POWer:SPECtrum:RCOut?.....               | 2551 |
| POWer:SPECtrum:RESult<m>:FREQuency?..... | 2551 |
| POWer:SPECtrum:RESult<m>:LEVel?.....     | 2551 |

**POWer:SPECtrum:AUToscale** <Autoscale>

Selects the scaling for the display of the results.

**Parameters:**

<Autoscale>          AUTO | MANUAL  
                              \*RST:        MANUAL

---

**POWer:SPECtrum:EXECute**

Starts the spectrum measurement.

**Usage:** Event

---

---

**POWer:SPECtrum:FREQuency <SmpsFrequency>**

Sets the SMPS switching frequency.

**Parameters:**

<SmpsFrequency>    Range:    1 to 100E+6  
                         Increment: 1  
                         \*RST:    1E+6  
                         Default unit: Hz

---

---

**POWer:SPECtrum:REPort:ADD**

Adds the result to the report list.

**Usage:** Event

---

---

**POWer:SPECtrum:RCOut?**

Returns the total number of harmonics.

**Return values:**

<ResultCount>

**Usage:** Query only

---

---

**POWer:SPECtrum:RESult<m>:FREQuency?**

Returns the result frequency of the m-th result value.

**Suffix:**

<m>                    1..\*

**Return values:**

<Frequency>

**Usage:** Query only

---

---

**POWer:SPECtrum:RESult<m>:LEVel?**

Returns the result level of the m-th result value.

**Suffix:**

<m>                    1..\*

**Return values:**

<Level>

**Usage:** Query only

## 23.24 Deembedding (Option R&S RTO-K121)

Some of the commands in the following chapter are asynchronous. An overlapping or asynchronous command does not automatically finish executing before the next command starts executing. If overlapping commands must be executed in a defined order, e.g. to avoid wrong measurement results, they must be serviced sequentially.

To prevent an overlapping execution of commands, one of the commands `*OPC`, `*OPC?` or `*WAI` can be used after the command or a command set.

For more information, see:

- [www.rohde-schwarz.com/rc-via-scp](http://www.rohde-schwarz.com/rc-via-scp), chapter "Command Sequence and Synchronization"
- Chapter 23.3, "Programming examples", on page 1261
- [Measurement setup](#)..... 2552
- [Save and load the deembedding setup](#)..... 2555
- [Components](#)..... 2556
- [Responses](#)..... 2561

### 23.24.1 Measurement setup

|                                                      |      |
|------------------------------------------------------|------|
| <a href="#">DEEMbedding&lt;m&gt;[:STATe]</a> .....   | 2552 |
| <a href="#">DEEMbedding&lt;m&gt;:ADD</a> .....       | 2553 |
| <a href="#">DEEMbedding&lt;m&gt;:REMove</a> .....    | 2553 |
| <a href="#">DEEMbedding&lt;m&gt;:CCOut?</a> .....    | 2553 |
| <a href="#">DEEMbedding&lt;m&gt;:BANDwidth</a> ..... | 2554 |
| <a href="#">DEEMbedding&lt;m&gt;:CMPDelay</a> .....  | 2554 |
| <a href="#">DEEMbedding&lt;m&gt;:PRESet</a> .....    | 2554 |

---

#### DEEMbedding<m>[:STATe] <State>

Activates the deembedding - the correction of parasitic effects of the measurement setup on the measured signal.

##### Suffix:

<m> 1..4  
Selects the channel that is configured for deembedding.

##### Parameters:

<State> ON | OFF  
\*RST: OFF

**Usage:** Asynchronous command

---

**DEEMbedding<m>:ADD <Index>, [<Type>]**

Adds a component to the measurement setup.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Setting parameters:**

<Index> Defines the place of the component in the measurement path.  
The DUT is always the first component (index = 1), the probe or input is the last component.

<Type> PROBe | FIXTure | CABLE | DUT | ADAPter | INPut | OTHer |  
RTZA10 | RTZA16 | RTZA17 | PP | PC | COPRobes

**RTZA10 | RTZA16 | RTZA17**

SMA adapters and cable offered by Rohde & Schwarz

**PP | PC**

Proven probe, proven cable

**Usage:**

Setting only  
Asynchronous command

---

**DEEMbedding<m>:REMOve <Index>**

Deletes the component with the indicated index from the measurement setup.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Setting parameters:**

<Index> Defines the place of the component in the measurement path.  
The DUT is always the first component (index = 1), the probe or input is the last component.

**Usage:**

Setting only  
Asynchronous command

---

**DEEMbedding<m>:CCOunt?**

Returns the total number of components in the measurement setup, including disabled components.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Return values:**

<Value> Integer value, number of components

**Usage:**

Query only

---

**DEEMbedding<m>:BANDwidth <Bandwidth>**

Sets the maximum bandwidth until which the signal is corrected. This maximum value is the minimum bandwidth value of probe, probe tip and oscilloscope bandwidth, and can not be higher than the highest frequency in a used S-parameter file.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Parameters:**

<Bandwidth> Bandwidth limit for correction.  
Range: 1E+9 to 16E+9  
Increment: 10  
\*RST: 4E+9  
Default unit: Hz

**Usage:** Asynchronous command

---

**DEEMbedding<m>:CMPDelay <DelayCompens>**

Enables the compensation for the group delay of the complete measurement setup. If enabled, the calibration time reference point is the start point of the measurement setup. If disabled, the calibration time reference point is the oscilloscope's channel input.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Parameters:**

<DelayCompens> ON | OFF  
\*RST: ON

**Usage:** Asynchronous command

---

**DEEMbedding<m>:PRESet**

Sets the complete deembedding configuration to the default values.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Usage:** Event  
Asynchronous command

### 23.24.2 Save and load the deembedding setup

|                            |      |
|----------------------------|------|
| DEEMbedding<m>:NAME.....   | 2555 |
| DEEMbedding<m>:SAVE.....   | 2555 |
| DEEMbedding<m>:OPEN.....   | 2555 |
| DEEMbedding<m>:DELeTe..... | 2555 |

---

#### DEEMbedding<m>:NAME <Path>

Sets the file name, file format and path of the deembedding setup file. The file format is always `.xml`.

##### Suffix:

|                                                         |      |
|---------------------------------------------------------|------|
| <m>                                                     | 1..4 |
| Selects the channel that is configured for deembedding. |      |

##### Parameters:

|        |                                                                 |
|--------|-----------------------------------------------------------------|
| <Path> | String with path and file name with extension <code>.xml</code> |
|--------|-----------------------------------------------------------------|

|        |                      |
|--------|----------------------|
| Usage: | Asynchronous command |
|--------|----------------------|

---

#### DEEMbedding<m>:SAVE

Saves the deembedding configuration to the file specified with `DEEMbedding<m>:NAME`.

##### Suffix:

|                                                         |      |
|---------------------------------------------------------|------|
| <m>                                                     | 1..4 |
| Selects the channel that is configured for deembedding. |      |

|        |       |
|--------|-------|
| Usage: | Event |
|--------|-------|

---

#### DEEMbedding<m>:OPEN

Opens and loads the deembedding configuration from the file specified with `DEEMbedding<m>:NAME`.

##### Suffix:

|                                                         |      |
|---------------------------------------------------------|------|
| <m>                                                     | 1..4 |
| Selects the channel that is configured for deembedding. |      |

|        |       |
|--------|-------|
| Usage: | Event |
|--------|-------|

---

#### DEEMbedding<m>:DELeTe

Deletes the deembedding configuration file specified with `DEEMbedding<m>:NAME`.

##### Suffix:

|                                                         |      |
|---------------------------------------------------------|------|
| <m>                                                     | 1..4 |
| Selects the channel that is configured for deembedding. |      |

|        |       |
|--------|-------|
| Usage: | Event |
|--------|-------|

### 23.24.3 Components

- [General settings](#).....2556
- [DUT settings](#).....2557
- [R&S RT-ZM probe settings](#).....2559
- [Cable, adapter, fixture and custom settings](#).....2560

#### 23.24.3.1 General settings

---

##### DEEMbedding<m>:COMPONENT<n>[:STATe] <IsEnabled>

Enables or disables the indicated component for deembedding.

The first and the last component are always enabled and cannot be disabled.

##### Suffix:

<m> 1..4  
Selects the channel that is configured for deembedding.

<n> 2..n-1  
Index of the component in the measurement setup. The DUT has index 1, the probe has index n.

##### Parameters:

<IsEnabled> ON | OFF  
\*RST: OFF

**Usage:** Asynchronous command

---

##### DEEMbedding<m>:COMPONENT<n>:TYPE <Type>

Sets the type of the indicated component. The first component is always DUT, the last component is PROBe or INPut.

##### Suffix:

<m> 1..4  
Selects the channel that is configured for deembedding.

<n> 1..n  
Index of the component in the measurement setup. The DUT has index 1, the probe has index n.

##### Parameters:

<Type> PROBe | FIXTure | CABLE | DUT | ADAPter | INPut | OTHer |  
RTZA10 | RTZA16 | RTZA17 | PP | PC

##### RTZA10 | RTZA16 | RTZA17

SMA adapters and cable offered by Rohde & Schwarz

##### PP | PC

Proven probe, proven cable

\*RST: CABLE

**Usage:** Asynchronous command



**DEEMbedding<m>:COMPonent<n>:NAME <Name>**

Sets a name for the indicated component that helps you identifying it.

**Suffix:**

|     |                                                                                                      |
|-----|------------------------------------------------------------------------------------------------------|
| <m> | 1..4<br>Selects the channel that is configured for deembedding.                                      |
| <n> | 1..n<br>Index of the component in the measurement setup. The DUT has index 1, the probe has index n. |

**Parameters:**

<Name> String parameter, name of the component

**Usage:** Asynchronous command

**DEEMbedding<m>:COMPonent<n>:PCOut?**

Returns the number of all ports of the selected component (input ports and output ports).

The number of ports depends on the attached probe. If a modular probe R&S RT-ZM or differential probe R&S RT-ZD is used, the number of ports is 4. Otherwise, 2 ports are available.

**Suffix:**

|     |                                                                                                      |
|-----|------------------------------------------------------------------------------------------------------|
| <m> | 1..4<br>Selects the channel that is configured for deembedding.                                      |
| <n> | 1..n<br>Index of the component in the measurement setup. The DUT has index 1, the probe has index n. |

**Return values:**

<TotalPorts> ONE | TWO | THRee | FOUR  
\*RST: TWO

**Usage:** Query only  
Asynchronous command

**23.24.3.2 DUT settings**

|                                                   |      |
|---------------------------------------------------|------|
| DEEMbedding<m>:COMPonent<n>:MODE.....             | 2557 |
| DEEMbedding<m>:COMPonent<n>:LOAD:REMPobeload..... | 2558 |
| DEEMbedding<m>:COMPonent<n>:LOAD:IMPedance?.....  | 2558 |

**DEEMbedding<m>:COMPonent<n>:MODE <Mode>**

Sets the probing mode.

**Suffix:**

|     |                                                                 |
|-----|-----------------------------------------------------------------|
| <m> | 1..4<br>Selects the channel that is configured for deembedding. |
|-----|-----------------------------------------------------------------|

<n> 1, only for available DUT

**Parameters:**

<Mode> PROBing | TERMinating

**PROBing**

For measurements with a high-ohmic probe and measure on an existing line in parallel to the load.

**TERMinating**

For measurements if the measuring equipment is the load of the line.

\*RST: PROBing

**Usage:** Asynchronous command

**DEEMbedding<m>:COMPonent<n>:LOAD:REMPobeload <Value>**

Removes the loading of the probe if `DEEMbedding<m>:COMPonent<n>:MODE` is set to `PROBing`.

If the probe loading is removed, you see the signal that would be at the measurement point if the probe's input impedance is ideal (infinite impedance).

Without removing the loading, you see the real signal at the measurement point, including the probe loading.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

<n> 1, only for available DUT

**Parameters:**

<Value> OFF | ON

**Usage:** Asynchronous command

**DEEMbedding<m>:COMPonent<n>:LOAD:IMPedance? <Value>**

Shows the source impedance of the DUT. If an R&S RT-ZM probe is connected, the value depends on the selected probe mode: common mode, differential, or single-ended measurement.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

<n> 1, only for available DUT

**Return values:**

<Value> Numeric value

**Usage:** Query only  
Asynchronous command

### 23.24.3.3 R&S RT-ZM probe settings

This chapter lists the commands that correspond to the "Deembedding" > "RT-ZMxx" dialog box. More commands are provided in [Chapter 23.8.7.6, "Modular probes, deembedding"](#), on page 1360.

|                                                                                   |      |
|-----------------------------------------------------------------------------------|------|
| <a href="#">PROBe&lt;m&gt;:DEEMbedding:TIPModule[:SElect]</a> .....               | 2559 |
| <a href="#">PROBe&lt;m&gt;:DEEMbedding:TIPModule:ZMA&lt;n&gt;:SUBModule</a> ..... | 2559 |
| <a href="#">PROBe&lt;m&gt;:DEEMbedding:BANDwidth</a> .....                        | 2560 |

---

#### **PROBe<m>:DEEMbedding:TIPModule[:SElect] <ProbeTip>**

Selects the tip module that is used for measurement.

##### **Suffix:**

<m> 1..4  
Selects the channel to which the probe is connected.

##### **Parameters:**

<ProbeTip> NONE | ZMA10 | ZMA12 | ZMA14 | ZMA15 | ZMA30 | ZMA40 | ZMA50 | CUST  
\*RST: ZMA10

**Usage:** Asynchronous command

---

#### **PROBe<m>:DEEMbedding:TIPModule:ZMA<n>:SUBModule <Value>**

Defines additional settings for some tip modules:

For the browser module R&S RT-ZMA30, measure the space between the pins, and select the appropriate value.

If R&S RT-ZMA40 is selected, choose the used submodule: semi-rigid cables or none.

##### **Suffix:**

<m> 1..4  
Selects the channel to which the probe is connected.

<n> 30 (R&S RT-ZMA30) or 40 (R&S RT-ZMA40)

##### **Parameters:**

<Value> D16 | D25 | D45 | D75 | NONE | SRCS

##### **For R&S RT-ZMA30:**

D16 = 1.6 mm  
D25 = 2.5 mm  
D45 = 4.5 mm  
D75 = 7.5 mm

##### **For R&S RT-ZMA40:**

NONE = no submodule  
SRCS = semi-rigid cables

**Usage:** Asynchronous command

**PROBe<m>:DEEMbedding:BANDwidth <ProbeBandwidth>**

Sets the maximum bandwidth until which the signal is corrected. This maximum value is the minimum bandwidth value of probe, probe tip and oscilloscope bandwidth, and can not be higher than the highest frequency in a used S-parameter file. Consider that most tip modules support the full bandwidth of the probe amplifier, but some tip modules have limited bandwidth.

**Suffix:**

<m> 1..4  
Selects the channel to which the probe is connected.

**Parameters:**

<ProbeBandwidth> Range: 1E+9 to 16E+9  
Increment: 10  
\*RST: 4E+9  
Default unit: Hz

**Usage:** Asynchronous command

**23.24.3.4 Cable, adapter, fixture and custom settings**

|                                            |      |
|--------------------------------------------|------|
| DEEMbedding<m>:COMPonent<n>:IDENTical..... | 2560 |
| DEEMbedding<m>:COMPonent<n>:IPONe.....     | 2561 |
| DEEMbedding<m>:COMPonent<n>:IPTWo.....     | 2561 |
| DEEMbedding<m>:COMPonent<n>:OPONe.....     | 2561 |
| DEEMbedding<m>:COMPonent<n>:OPTWo.....     | 2561 |
| DEEMbedding<m>:COMPonent<n>:SPONe.....     | 2561 |
| DEEMbedding<m>:COMPonent<n>:SPTWo.....     | 2561 |

**DEEMbedding<m>:COMPonent<n>:IDENTical <MatchedPaths>**

The setting is relevant if the measurement setup is a 4-port, and the component is a 2-port. Usually, these components are cables and adapters, which are described by \*.s2p files. In case of a 4-port setup, 2 cables or 2 adapters are used. If they are identical, for example, when a matched-pair cable is used, they can be described by the same file. In this case, set the command to ON.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

<n> 1..\*  
Selects the component. The DUT has suffix 1.

**Parameters:**

<MatchedPaths> ON | OFF  
\*RST: OFF

**Usage:** Asynchronous command

---

**DEEMbedding<m>:COMPonent<n>:IPONe** <InputPort1>  
**DEEMbedding<m>:COMPonent<n>:IPTWo** <InputPort2>  
**DEEMbedding<m>:COMPonent<n>:OPONe** <OutputPort1>  
**DEEMbedding<m>:COMPonent<n>:OPTWo** <OutputPort2>

Assign the ports to the input and output of the component according to the data in the Touchstone file. This information is not directly written in the file. You need background information how the S-parameters were determined, i.e. which port was input and which port was output.

**Suffix:**

<m> 1..4  
 Selects the channel that is configured for deembedding.  
  
 <n> 1..\*  
 Selects the component. The DUT has suffix 1.

**Parameters:**

<InputPort1> ONE | TWO | THRee | FOUR  
 <InputPort2> Port number that is assigned to the input or output.  
 <OutputPort1> \*RST: ONE for input 1, TWO for output 1, THRee for  
 <OutputPort2> input 2, FOUR for output 4

**Usage:** Asynchronous command

---

**DEEMbedding<m>:COMPonent<n>:SPONe** <SParmFilePath>  
**DEEMbedding<m>:COMPonent<n>:SPTWo** <SParmFilePath>

Set the file name, file format and path of the S-parameter file, and load the S-parameters.

See also: "[S-Parameters, Filetype](#)" on page 1206.

**Suffix:**

<m> 1..4  
 Selects the channel that is configured for deembedding.  
  
 <n> 1..\*  
 Selects the component. The DUT has suffix 1.

**Parameters:**

<SParmFilePath> String with path and file name with extension *s2p* (2-port component) or *s4p* (4-port component).

**Usage:** Asynchronous command

---

## 23.24.4 Responses

---

**DEEMbedding<m>:CADC?**

Maximum attenuation or gain of the measurement setup before deembedding at DC. This value is the expected basic attenuation or gain, which is corrected by deembedding.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Return values:**

ValueAtDC Range: -1E+9 to 1E+9  
Increment: 0.01  
\*RST: 0  
Default unit: dB

**Usage:** Query only

**DEEMbedding<m>:MATTenuation?**

Maximum attenuation of the measurement setup before deembedding, with reference to a frequency response normalized at DC to 0 dB. The deembedding filter must amplify the amplitude response by the "Att<sub>max</sub>" value, and thus also increases the noise by this value. The value also helps to decide whether deembedding is useful for the defined effective bandwidth.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Return values:**

<MaxFilterAtt> Range: -1E+9 to 1E+9  
Increment: 0.01  
\*RST: 0  
Default unit: dB

**Usage:** Query only

**DEEMbedding<m>:MGain?**

Maximum gain of the measurement setup before deembedding, with reference to a frequency response normalized at DC to 0 dB. The deembedding filter must attenuate the amplitude response by this value. The value helps also to avoid an overload of the ADC.

**Suffix:**

<m> 1..4  
Selects the channel that is configured for deembedding.

**Return values:**

<MaxFilterGn> Range: -1E+9 to 1E+9  
Increment: 0.01  
\*RST: 0  
Default unit: dB

**Usage:** Query only

## 23.25 Maintenance

Some of the commands in the following chapter are asynchronous. An overlapping or asynchronous command does not automatically finish executing before the next command starts executing. If overlapping commands must be executed in a defined order, e.g. to avoid wrong measurement results, they must be serviced sequentially.

To prevent an overlapping execution of commands, one of the commands `*OPC`, `*OPC?` or `*WAI` can be used after the command or a command set.

For more information, see:

- [www.rohde-schwarz.com/rc-via-scp](http://www.rohde-schwarz.com/rc-via-scp), chapter "Command Sequence and Synchronization"
- Chapter 23.3, "Programming examples", on page 1261

|                                                       |      |
|-------------------------------------------------------|------|
| <a href="#">DIAGnostic:SERVice:WFAModel?</a> .....    | 2563 |
| <a href="#">DIAGnostic:SERVice:WFASeries?</a> .....   | 2563 |
| <a href="#">DIAGnostic:SERVice:WFAType?</a> .....     | 2563 |
| <a href="#">CALibration:DATE?</a> .....               | 2564 |
| <a href="#">CALibration:TIME?</a> .....               | 2564 |
| <a href="#">CALibration:RESult?</a> .....             | 2564 |
| <a href="#">DIAGnostic:SERVice:STST:EXECute</a> ..... | 2564 |
| <a href="#">DIAGnostic:SERVice:STST:STATe?</a> .....  | 2564 |
| <a href="#">DIAGnostic:SERVice:PWD</a> .....          | 2565 |

---

### DIAGnostic:SERVice:WFAModel?

Returns the model name of the oscilloscope.

#### Return values:

<WFAModel>            Product type

**Usage:**                Query only

---

### DIAGnostic:SERVice:WFASeries?

Returns the model series of the oscilloscope.

#### Return values:

<WFASeries>            RTO | RTE | RTP  
                              \*RST:        RTO

**Usage:**                Query only

---

### DIAGnostic:SERVice:WFAType?

Returns the instrument family of the oscilloscope.

#### Return values:

<WFAType>              RTO | RTO2000 | RTE | RTE | RTP  
                              \*RST:        RTO2000

**Usage:** Query only

---

#### **CALibration:DATE?**

Returns the date of the last selfalignment.

#### **Return values:**

<Date>

**Usage:** Query only  
Asynchronous command

---

#### **CALibration:TIME?**

Returns the time of the last selfalignment.

#### **Return values:**

<Time>

**Usage:** Query only  
Asynchronous command

---

#### **CALibration:RESult?**

Returns the result of the last selfalignment and the current alignment status. In remote mode, \*CAL? provides more detailed information.

#### **Return values:**

<ResultState> PASSEd | FAILEd | NOALigndata  
\*RST: FAILEd

**Usage:** Query only  
Asynchronous command

---

#### **DIAGnostic:SERVice:STST:EXECute**

Starts the selftest.

**Usage:** Event  
Asynchronous command

---

#### **DIAGnostic:SERVice:STST:STATe?**

Returns the summary result of the selftest.

#### **Return values:**

<State> PSSD | FAILEd | UNDEfined  
\*RST: UNDEfined

**Usage:** Query only  
Asynchronous command



---

**DIAGnostic:SERVice:PWD** <Password>

Sets the password to enter the service mode.

**Setting parameters:**

<Password> Password string

**Usage:** Setting only

## 23.26 Status reporting

This chapter describes the remote commands that are used to read the status registers.

For information on structure, hierarchy, and contents of the status registers, see [Chapter 22.5.4, "Remote control - status reporting system"](#), on page 1243.

- [STATus:OPERation register](#).....2565
- [STATus:QUEStionable registers](#).....2566

### 23.26.1 STATus:OPERation register

STATus:OPERation commands provide information on the activity of the instrument.

See also: "[STATus:OPERation register](#)" on page 1244

|                                                   |      |
|---------------------------------------------------|------|
| <a href="#">STATus:OPERation:CONDition?</a> ..... | 2565 |
| <a href="#">STATus:OPERation[:EVENT]?</a> .....   | 2565 |
| <a href="#">STATus:OPERation:ENABLE</a> .....     | 2566 |

---

#### **STATus:OPERation:CONDition?**

#### **STATus:OPERation[:EVENT]?**

The CONDition command returns information on actions the instrument is currently executing. The contents of the register is retained.

The EVENT command returns information on actions the instrument has executed since the last reading. Reading the EVENT register deletes its contents.

Bits:

- 0 = ALIGNment
- 2 = AUToset
- 3= WTRigger (wait for trigger)
- 4= MEASuring

**Usage:** Query only

---

**STATus:OPERation:ENABle** <Enable>

Controls the ENABle part of the STATus:OPERation register. The ENABle defines which events in the EVENT part of the status register are forwarded to the OPERation summary bit (bit 7) of the status byte. The status byte can be used to create a service request.

**Parameters:**

<Enable>                      Range:     1 to 65535  
                                 Increment: 1

**Example:**

STATus:OPERation:ENABle 5

The ALIGNment event (bit 0) and AUToset event (bit 2) are forwarded to the OPERation summary bit of the status byte.

### 23.26.2 STATus:QUEStionable registers

The commands of the STATus:QUEStionable subsystem control the status reporting structures of the STATus:QUEStionable registers.

See also: "[STATus:QUEStionable register](#)" on page 1245

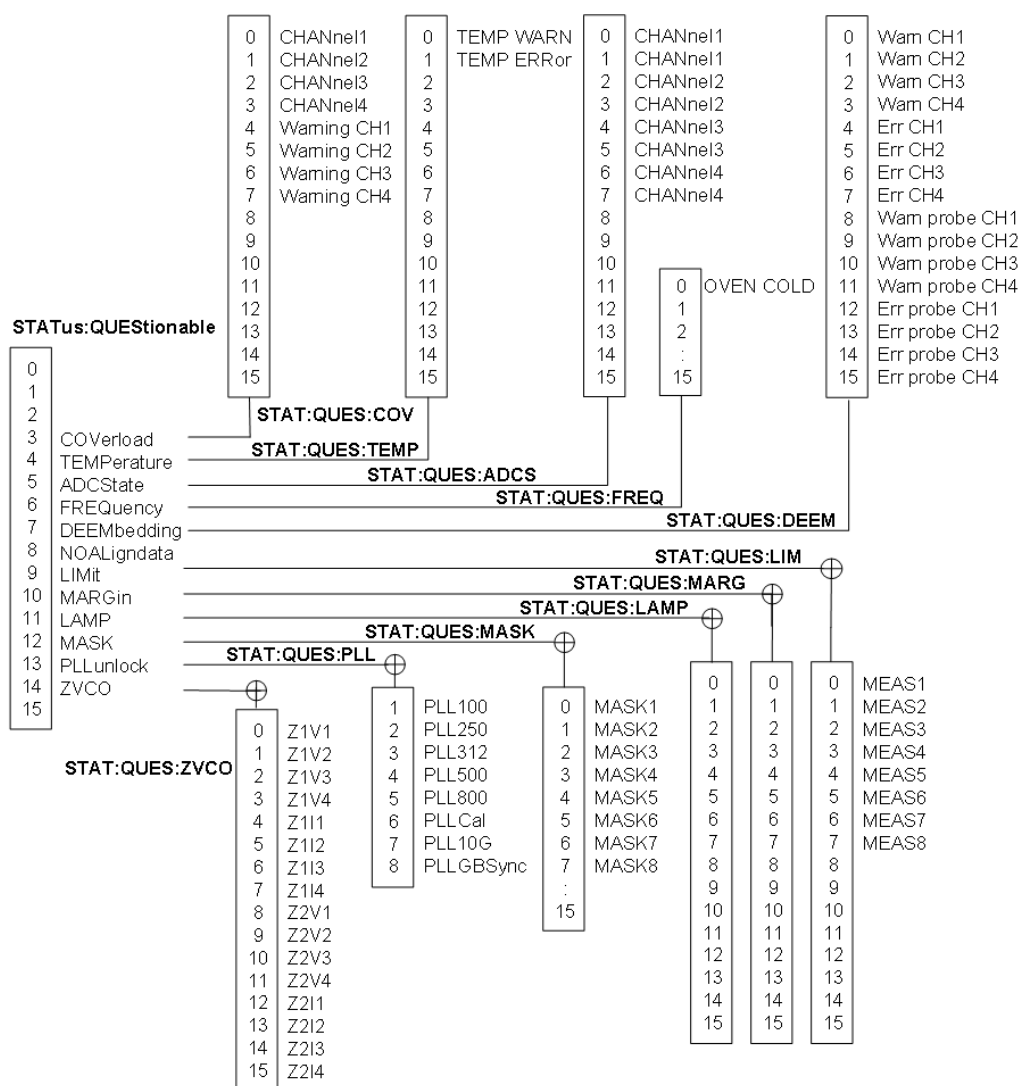


Figure 23-1: Overview of the STATus:QUESTionable register

The STATus:QUESTionable:PLL... commands are only relevant if option R&S RTO-K13 is installed.

The following commands are available:

|                                            |      |
|--------------------------------------------|------|
| STATus:QUESTionable:COVerload:CONDition?   | 2568 |
| STATus:QUESTionable:TEMPerature:CONDition? | 2568 |
| STATus:QUESTionable:ADCState:CONDition?    | 2568 |
| STATus:QUESTionable:LIMit:CONDition?       | 2569 |
| STATus:QUESTionable:MARGin:CONDition?      | 2569 |
| STATus:QUESTionable:FREQuency:CONDition?   | 2569 |
| STATus:QUESTionable:PLL:CONDition?         | 2569 |
| STATus:QUESTionable:DEEMbedding:CONDition? | 2569 |
| STATus:QUESTionable:LAMPitude:CONDition?   | 2569 |
| STATus:QUESTionable:ZVCoverload:CONDition? | 2569 |
| STATus:QUESTionable:MASK:CONDition?        | 2569 |

|                                                  |      |
|--------------------------------------------------|------|
| STATus:QUESTionable:COVerload:ENABle.....        | 2569 |
| STATus:QUESTionable:TEMPerature:ENABle.....      | 2569 |
| STATus:QUESTionable:ADCState:ENABle.....         | 2569 |
| STATus:QUESTionable:LIMit:ENABle.....            | 2569 |
| STATus:QUESTionable:MARGin:ENABle.....           | 2569 |
| STATus:QUESTionable:FREQuency:ENABle.....        | 2569 |
| STATus:QUESTionable:PLL:ENABle.....              | 2569 |
| STATus:QUESTionable:DEEMbedding:ENABle.....      | 2569 |
| STATus:QUESTionable:LAMPliitude:ENABle.....      | 2569 |
| STATus:QUESTionable:ZVCoverload:ENABle.....      | 2569 |
| STATus:QUESTionable:MASK:ENABle.....             | 2569 |
| STATus:QUESTionable:COVerload[:EVENT]?.....      | 2569 |
| STATus:QUESTionable:TEMPerature[:EVENT]?.....    | 2569 |
| STATus:QUESTionable:ADCState[:EVENT]?.....       | 2569 |
| STATus:QUESTionable:LIMit[:EVENT]?.....          | 2569 |
| STATus:QUESTionable:MARGin[:EVENT]?.....         | 2569 |
| STATus:QUESTionable:FREQuency:EVENT?.....        | 2569 |
| STATus:QUESTionable:PLL[:EVENT]?.....            | 2569 |
| STATus:QUESTionable:DEEMbedding[:EVENT]?.....    | 2569 |
| STATus:QUESTionable:LAMPliitude[:EVENT]?.....    | 2569 |
| STATus:QUESTionable:ZVCoverload[:EVENT]?.....    | 2570 |
| STATus:QUESTionable:MASK[:EVENT]?.....           | 2570 |
| STATus:QUESTionable:COVerload:NTRansition.....   | 2570 |
| STATus:QUESTionable:TEMPerature:NTRansition..... | 2570 |
| STATus:QUESTionable:ADCState:NTRansition.....    | 2570 |
| STATus:QUESTionable:LIMit:NTRansition.....       | 2570 |
| STATus:QUESTionable:MARGin:NTRansition.....      | 2570 |
| STATus:QUESTionable:FREQuency:NTRansition.....   | 2570 |
| STATus:QUESTionable:PLL:NTRansition.....         | 2570 |
| STATus:QUESTionable:DEEMbedding:NTRansition..... | 2570 |
| STATus:QUESTionable:LAMPliitude:NTRansition..... | 2570 |
| STATus:QUESTionable:ZVCoverload:NTRansition..... | 2570 |
| STATus:QUESTionable:MASK:NTRansition.....        | 2570 |
| STATus:QUESTionable:COVerload:PTRansition.....   | 2570 |
| STATus:QUESTionable:TEMPerature:PTRansition..... | 2570 |
| STATus:QUESTionable:ADCState:PTRansition.....    | 2570 |
| STATus:QUESTionable:LIMit:PTRansition.....       | 2570 |
| STATus:QUESTionable:MARGin:PTRansition.....      | 2570 |
| STATus:QUESTionable:FREQuency:PTRansition.....   | 2570 |
| STATus:QUESTionable:PLL:PTRansition.....         | 2570 |
| STATus:QUESTionable:DEEMbedding:PTRansition..... | 2570 |
| STATus:QUESTionable:LAMPliitude:PTRansition..... | 2570 |
| STATus:QUESTionable:ZVCoverload:PTRansition..... | 2570 |
| STATus:QUESTionable:MASK:PTRansition.....        | 2570 |
| MTESt:SBITnumber?.....                           | 2571 |

---

**STATus:QUESTionable:COVerload:CONDition?**  
**STATus:QUESTionable:TEMPerature:CONDition?**  
**STATus:QUESTionable:ADCState:CONDition?**

**STATus:QUESTionable:LIMit:CONDition?**  
**STATus:QUESTionable:MARGin:CONDition?**  
**STATus:QUESTionable:FREQuency:CONDition?**  
**STATus:QUESTionable:PLL:CONDition?**  
**STATus:QUESTionable:DEEMbedding:CONDition?**  
**STATus:QUESTionable:LAMPlitude:CONDition?**  
**STATus:QUESTionable:ZVCoverload:CONDition?**  
**STATus:QUESTionable:MASK:CONDition?**

Returns the contents of the CONDition part of the status register to check for questionable instrument or measurement states. Reading the CONDition registers does not delete the contents.

**Usage:** Query only

---

**STATus:QUESTionable:COVerload:ENABle <Value>**  
**STATus:QUESTionable:TEMPerature:ENABle <Value>**  
**STATus:QUESTionable:ADCState:ENABle <Value>**  
**STATus:QUESTionable:LIMit:ENABle <Value>**  
**STATus:QUESTionable:MARGin:ENABle <Value>**  
**STATus:QUESTionable:FREQuency:ENABle <Value>**  
**STATus:QUESTionable:PLL:ENABle <Value>**  
**STATus:QUESTionable:DEEMbedding:ENABle <Value>**  
**STATus:QUESTionable:LAMPlitude:ENABle <Value>**  
**STATus:QUESTionable:ZVCoverload:ENABle <Value>**  
**STATus:QUESTionable:MASK:ENABle <Value>**

Sets the ENABle part that allows true conditions in the EVENT part to be reported in the summary bit. If a bit is set to 1 in the enable part and its associated event bit transitions to true, a positive transition occurs in the summary bit and is reported to the next higher level.

**Parameters:**

<Value> Bit mask in decimal representation

**Example:**

STATus:QUESTionable:MASK:ENABle 24

Set bits no. 3 and 4 of the STATus:QUESTionable:MASK:ENABle register part:  $24 = 8 + 16 = 2^3 + 2^4$

---

**STATus:QUESTionable:COVerload[:EVENT]?**  
**STATus:QUESTionable:TEMPerature[:EVENT]?**  
**STATus:QUESTionable:ADCState[:EVENT]?**  
**STATus:QUESTionable:LIMit[:EVENT]?**  
**STATus:QUESTionable:MARGin[:EVENT]?**  
**STATus:QUESTionable:FREQuency:EVENT?**  
**STATus:QUESTionable:PLL[:EVENT]?**  
**STATus:QUESTionable:DEEMbedding[:EVENT]?**  
**STATus:QUESTionable:LAMPlitude[:EVENT]?**

**STATus:QUESTionable:ZVCoverload[:EVENT]?****STATus:QUESTionable:MASK[:EVENT]?**

Returns the contents of the EVENT part of the status register to check whether an event has occurred since the last reading. Reading an EVENT register deletes its contents.

**Usage:** Query only

---

**STATus:QUESTionable:COVerload:NTRansition** <Value>  
**STATus:QUESTionable:TEMPerature:NTRansition** <Value>  
**STATus:QUESTionable:ADCState:NTRansition** <Value>  
**STATus:QUESTionable:LIMit:NTRansition** <Value>  
**STATus:QUESTionable:MARGin:NTRansition** <Value>  
**STATus:QUESTionable:FREQuency:NTRansition** <Value>  
**STATus:QUESTionable:PLL:NTRansition** <Value>  
**STATus:QUESTionable:DEEMbedding:NTRansition** <Value>  
**STATus:QUESTionable:LAMPlitude:NTRansition** <Value>  
**STATus:QUESTionable:ZVCoverload:NTRansition** <Value>  
**STATus:QUESTionable:MASK:NTRansition** <Value>

Sets the negative transition filter. If a bit is set, a 1 to 0 transition in the corresponding bit of the condition register causes a 1 to be written in the corresponding bit of the event register.

**Parameters:**

<Value> Bit mask in decimal representation

**Example:**

STATus:QUESTionable:MASK:NTRansition 24  
 Set bits no. 3 and 4 of the STATus:QUESTionable:MASK:NTRan-  
 sition register part:  $24 = 8 + 16 = 2^3 + 2^4$

---

**STATus:QUESTionable:COVerload:PTRansition** <Value>  
**STATus:QUESTionable:TEMPerature:PTRansition** <Value>  
**STATus:QUESTionable:ADCState:PTRansition** <Value>  
**STATus:QUESTionable:LIMit:PTRansition** <Value>  
**STATus:QUESTionable:MARGin:PTRansition** <Value>  
**STATus:QUESTionable:FREQuency:PTRansition** <Value>  
**STATus:QUESTionable:PLL:PTRansition** <Value>  
**STATus:QUESTionable:DEEMbedding:PTRansition** <Value>  
**STATus:QUESTionable:LAMPlitude:PTRansition** <Value>  
**STATus:QUESTionable:ZVCoverload:PTRansition** <Value>  
**STATus:QUESTionable:MASK:PTRansition** <Value>

Sets the positive transition filter. If a bit is set, a 0 to 1 transition in the corresponding bit of the condition register causes a 1 to be written in the corresponding bit of the event register.

**Parameters:**

<Value> Bit mask in decimal representation

**Example:**                    `STATus:QUEStionable:MASK:PTRansition 24`  
                               Set bits no. 3 and 4 of the `STATus:QUEStionable:MASK:PTRan-`  
                               sition register part:  $24 = 8 + 16 = 2^3 + 2^4$

---

#### **MTESt:SBITnumber? <MaskTestName>**

Returns the number of the status bit that belongs to the indicated mask test in the `STATus:QUEStionable:MASK` register. The status bits are assigned in the order of mask creation.

#### **Query parameters:**

<MaskTestName>    String with the name of the mask test

#### **Return values:**

<StatusBitNumber>    Bit number, see "[STATus:QUEStionable:MASK register](#)" on page 1250.

Range:            0 to 7

Increment:       1

\*RST:            0

**Example:**                    `:MTESt:SBITnumber? 'MT1'`  
                                   `<--0`  
                                   `:MTESt:SBITnumber? 'MT2'`  
                                   `<--1`  
                                   `:MTESt:SBITnumber? 'MT3'`  
                                   `<--2`

**Usage:**                    Query only  
                                   Asynchronous command

## 23.27 Remote trace

The commands in this section configure tracing of the remote control interface and of events. They also configure the display of the SCPI remote trace.

Before you start tracing, configure all settings as desired. Modifying settings while tracing is active may result in loss of already traced data. Useful exception: Selecting a new target file while tracing is allowed. For start mode `EXPLicit` a restart of the instrument resets the settings to the documented default values.

If you want to start tracing already during startup of the instrument, configure all settings (including start mode `AUTO`). Then restart your instrument. Tracing will be started automatically during the restart, using the already configured settings.

If you use an XML file as trace file, ensure that tracing is stopped properly. If tracing is aborted instead of stopped, for example by shutting down the instrument for stop mode `EXPLicit`, the XML file will be invalid, because some tags are not closed.

When the maximum file size is reached (except for stop mode `BUFFerfull`) or if tracing is started with an already existing trace file, a backup of the trace file is created and the file itself is reset and overwritten. When the file is full for the second time or when

tracing is started the next time, the first backup file is lost because it is overwritten by the next backup. In order to prevent loss of data, set a sufficient file size, select an appropriate stop mode and archive/copy completed trace files if you want to keep them.

### 23.27.1 Standard commands

|                                       |      |
|---------------------------------------|------|
| TRACe:REMOte:MODE:FILE:NAME.....      | 2572 |
| TRACe:REMOte:MODE:FILE:FORMat.....    | 2572 |
| TRACe:REMOte:MODE:FILE:SIZE.....      | 2572 |
| TRACe:REMOte:MODE:FILE:STARtmode..... | 2572 |
| TRACe:REMOte:MODE:FILE:STOPmode.....  | 2573 |
| TRACe:REMOte:MODE:FILE:ENABle.....    | 2573 |
| TRACe:REMOte:MODE:FILE:FILTer.....    | 2573 |

---

#### TRACe:REMOte:MODE:FILE:NAME <FilePath>

Sets the directory and file name where the remote trace file is stored.

##### Parameters:

<FilePath>                      String parameter

---

#### TRACe:REMOte:MODE:FILE:FORMat <Format>

Sets the file format of the remote trace file.

##### Parameters:

<Format>                      ASCII | XML

---

#### TRACe:REMOte:MODE:FILE:SIZE <FileSize>

Sets the maximum size of the remote trace file.

##### Parameters:

<FileSize>                      Integer value

---

#### TRACe:REMOte:MODE:FILE:STARtmode <StartMode>

Defines how the remote trace is started.

##### Parameters:

<StartMode>                      AUTO | EXPLicit

##### **AUTO**

Starts the remote trace immediately.

##### **EXPLicit**

Starts remote trace with TRACe:REMOte:MODE:FILE:ENABle  
ON



**TRACe:REMOte:MODE:FILE:STOPmode** <StopMode>

Defines when the remote trace is stopped.

**Parameters:**

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| <StopMode>        | AUTO   EXPLicit   ERRor   BUFFErfull                        |
| <b>AUTO</b>       | Ends the remote trace on device shutdown.                   |
| <b>EXPLicit</b>   | Ends remote trace with TRACe:REMOte:MODE:FILE:ENABle<br>OFF |
| <b>ERRor</b>      | Ends remote trace when a SCPI error occurs.                 |
| <b>BUFFErfull</b> | Ends remote trace when the maximum file size is reached.    |

**TRACe:REMOte:MODE:FILE:ENABLE** <Enable>

Enables and disables the remote trace to file.

**Parameters:**

|          |          |
|----------|----------|
| <Enable> | ON   OFF |
|----------|----------|

**TRACe:REMOte:MODE:FILE:FILTer** <Input>, <Output>, <Error>, <Trigger>, <DeviceClear>, <StatusRegister>, <Connection>, <RemoteLocalEvents>, <Locking>

Defines the content of the remote trace file.

**Parameters:**

|                  |                                          |
|------------------|------------------------------------------|
| <Input>          | ON   OFF<br>Input data                   |
| <Output>         | ON   OFF<br>Output data                  |
| <Error>          | ON   OFF<br>New SCPI error queue entries |
| <Trigger>        | ON   OFF<br>Trigger events               |
| <DeviceClear>    | ON   OFF<br>Device clear events          |
| <StatusRegister> | ON   OFF<br>Status register conditions   |
| <Connection>     | ON   OFF<br>Open/close connection events |

<RemoteLocalEvents>ON | OFF  
Local/remote transition events

<Locking> ON | OFF  
Remote locking events

### 23.27.2 Diagnostic remote trace commands

|                                                 |      |
|-------------------------------------------------|------|
| TRACe:REMOte:MODE:FILE:DEXecution:DURation..... | 2574 |
| TRACe:REMOte:MODE:FILE:RPC.....                 | 2574 |
| TRACe:REMOte:MODE:FILE:PARSer.....              | 2574 |
| TRACe:REMOte:MODE:FILE:FUNCTions.....           | 2574 |

---

#### TRACe:REMOte:MODE:FILE:DEXecution:DURation <Enable>

Traces the device execution time of a command

##### Parameters:

<Enable> ON | OFF

---

#### TRACe:REMOte:MODE:FILE:RPC <Enable>

Enables and disables output of rpc calls to remote trace.

##### Parameters:

<Enable> ON | OFF

---

#### TRACe:REMOte:MODE:FILE:PARSer <Enable>

Enables and disables output of parser transitions to remote trace.

##### Parameters:

<Enable> ON | OFF

---

#### TRACe:REMOte:MODE:FILE:FUNCTions <Enable>

Enables and disables output of function names to remote trace.

##### Parameters:

<Enable> ON | OFF

## 23.28 Deprecated commands

The following commands are provided for compatibility to previous oscilloscope versions only. For new remote control programs, use the specified alternative commands.

### 23.28.1 Base instrument

| Legacy command                                                                                                                                                                                                                                                | Replaced by                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Comment                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| ACQuire:ARESet:WFMCount                                                                                                                                                                                                                                       | <a href="#">ACQuire:ARESet:COUNT</a> on page 1337                                                                                                                                                                                                                                                                                                                                                                                                                 | Replaced since FW 2.70          |
| BUSFormat                                                                                                                                                                                                                                                     | For parallel buses:<br><a href="#">BUS&lt;m&gt;:PARallel:DATA:FORMat</a><br>on page 2420<br>For serial buses:<br><a href="#">BUS&lt;m&gt;:FORMat</a> on page 1671                                                                                                                                                                                                                                                                                                 | Replaced since FW 4.70          |
| MEASurement<m>:SPECtrum:NREJect                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Functionality is not supported. |
| MEASurement<m>:SPECtrum:THReshold                                                                                                                                                                                                                             | <a href="#">MEASurement&lt;m&gt;:SPECtrum:ATHReshold</a><br>on page 1515                                                                                                                                                                                                                                                                                                                                                                                          | Replaced since FW 3.30          |
| SEARch:TRIGger:DATatoclock[:STATe]<br>SEARch:TRIGger:DATatoclock:ACOPy<br>SEARch:TRIGger:DATatoclock:CEdGe<br>SEARch:TRIGger:DATatoclock:CLEVel<br>SEARch:TRIGger:DATatoclock:CSOurce<br>SEARch:TRIGger:DATatoclock:HTIME<br>SEARch:TRIGger:DATatoclock:STIME | <a href="#">SEARch:TRIGger:SETHold[:STATe]</a><br>on page 1604<br><a href="#">SEARch:TRIGger:SETHold:ACOPy</a><br>on page 1605<br><a href="#">SEARch:TRIGger:SETHold:CEdGe</a><br>on page 1619<br><a href="#">SEARch:TRIGger:SETHold:CLEVel</a><br>on page 1620<br><a href="#">SEARch:TRIGger:SETHold:CSOurce</a><br>on page 1620<br><a href="#">SEARch:TRIGger:SETHold:HTIME</a><br>on page 1620<br><a href="#">SEARch:TRIGger:SETHold:STIME</a><br>on page 1621 | Replaced since FW 5.00          |
| SEARch:TRIGger:INTERval:POLarity                                                                                                                                                                                                                              | <a href="#">SEARch:TRIGger:INTERval:SLOPe</a><br>on page 1607                                                                                                                                                                                                                                                                                                                                                                                                     | Replaced since FW 2.70          |
| SYSTem:RESet                                                                                                                                                                                                                                                  | <a href="#">*RST</a> on page 1291                                                                                                                                                                                                                                                                                                                                                                                                                                 | Replaced since FW 4.60          |
| TRIGger<m>:DATatoclock:CSOurce[:VALue]<br>TRIGger<m>:DATatoclock:CSOurce:EDGE<br>TRIGger<m>:DATatoclock:CSOurce:LEVel<br>TRIGger<m>:DATatoclock:HTIME<br>TRIGger<m>:DATatoclock:STIME                                                                         | <a href="#">TRIGger&lt;m&gt;:SETHold:CSOurce[:VALue]</a><br>on page 1411<br><a href="#">TRIGger&lt;m&gt;:SETHold:CSOurce:EDGE</a><br>on page 1410<br><a href="#">TRIGger&lt;m&gt;:SETHold:CSOurce:LEVel</a><br>on page 1410<br><a href="#">TRIGger&lt;m&gt;:SETHold:HTIME</a><br>on page 1411<br><a href="#">TRIGger&lt;m&gt;:SETHold:STIME</a><br>on page 1411                                                                                                   | Replaced since FW 5.00          |
| TRIGger<m>:INTERval:POLarity                                                                                                                                                                                                                                  | <a href="#">TRIGger&lt;m&gt;:INTERval:SLOPe</a><br>on page 1406                                                                                                                                                                                                                                                                                                                                                                                                   | Replaced since FW 2.70          |
| TRIGger<m>:OUT:STATe                                                                                                                                                                                                                                          | <a href="#">TRIGger&lt;m&gt;:OUT:ACTIon</a> on page 1438                                                                                                                                                                                                                                                                                                                                                                                                          | Replaced since FW 5.00          |

| Legacy command                                                                                                                                                                    | Replaced by                                                                                                                                                                                                                                                                                                   | Comment                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| TRIGger<m>:PARallel:DATatoclock:CSource[:VALue]<br>TRIGger<m>:PARallel:DATatoclock:CSource:EDGE<br>TRIGger<m>:PARallel:DATatoclock:STIME<br>TRIGger<m>:PARallel:DATatoclock:HTIME | <a href="#">TRIGger&lt;m&gt;:PARallel:SETHold:CSource[:VALue]</a> on page 2426<br><a href="#">TRIGger&lt;m&gt;:PARallel:SETHold:CSource:EDGE</a> on page 2429<br><a href="#">TRIGger&lt;m&gt;:PARallel:SETHold:HTIME</a> on page 2429<br><a href="#">TRIGger&lt;m&gt;:PARallel:SETHold:STIME</a> on page 2430 | Replaced since FW 5.00          |
| TRIGger<m>:SEquence:MODE                                                                                                                                                          | <a href="#">TRIGger&lt;m&gt;:SEquence:TYPE</a> on page 1432                                                                                                                                                                                                                                                   | Replaced since FW 5.10          |
| TRIGger<m>:ROBust                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                               | Functionality is not supported. |

## 23.28.2 Options

| Legacy command                   | Replaced by                                                                                                                                                                                                                                                                                                                                                            | Comment                         |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>CAN, CAN FD</b>               |                                                                                                                                                                                                                                                                                                                                                                        |                                 |
| SEARch:TRIGger:CAN[:STATe]       | <a href="#">SEARch:TRIGger:CAN[:SSOFrame]</a> on page 1758<br><a href="#">SEARch:TRIGger:CAN:SFTYPE</a> on page 1759<br><a href="#">SEARch:TRIGger:CAN:SFIDentifier</a> on page 1759<br><a href="#">SEARch:TRIGger:CAN:SIDData</a> on page 1759<br><a href="#">SEARch:TRIGger:CAN:SERRor</a> on page 1759<br><a href="#">SEARch:TRIGger:CAN:SSYMBOLic</a> on page 1775 | Replaced since FW 2.25          |
| <b>DPHY</b>                      |                                                                                                                                                                                                                                                                                                                                                                        |                                 |
| SEARch:TRIGger:DPHY:ERRor:CHKSum |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |
| SEARch:TRIGger:DPHY:ERRor:ECC    |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |
| <b>Ethernet 100BASE-T1</b>       |                                                                                                                                                                                                                                                                                                                                                                        |                                 |
| TRIGger<m>:HBTO:RSTatus          |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |
| SEARch:TRIGger:HBTO:RSTatus      |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |
| <b>FlexRay</b>                   |                                                                                                                                                                                                                                                                                                                                                                        |                                 |
| SEARch:TRIGger:FLXRay[:STATe]    |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |
| <b>Manchester and NRZ</b>        |                                                                                                                                                                                                                                                                                                                                                                        |                                 |
| SEARch:TRIGger:CMSB:TYPE         |                                                                                                                                                                                                                                                                                                                                                                        | Functionality is not supported. |

| Legacy command                                                                                                                                                                                                                                                                                                                                                                                                                                              | Replaced by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Comment                         |                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|
| SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:BIT<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:DMAx<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:DMIN<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:DOPerator<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:ENABle<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:IMAX<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:IMIN<br><br>SEARch:TRIG-<br>ger:CMSB:FRAMe<m>:FIEld<n>:IOPerator | <a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:BIT</a> on page 2164<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DMAx</a> on page 2165<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DMIN</a> on page 2165<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DOPerator</a> on page 2166<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:ENABle</a> on page 2166<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IMAX</a> on page 2167<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IMIN</a> on page 2167<br><br><a href="#">SEARch:TRIGger:CMSB:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IOPerator</a> on page 2167 | Replaced since FW 4.15          |                                                     |
| MDIO                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                     |
| BUS<m>:MDIO:MAXGap                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | Functionality is not supported.                     |
| RFFE                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                     |
| TRIGger<m>:RFFE:MINGap:SElect                                                                                                                                                                                                                                                                                                                                                                                                                               | Same as <a href="#">BUS&lt;m&gt;:RFFE:MINGap:SElect</a> on page 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | Duplicate command since FW 3.20                     |
| TRIGger<m>:RFFE:MINGap:TIME                                                                                                                                                                                                                                                                                                                                                                                                                                 | Same as <a href="#">BUS&lt;m&gt;:RFFE:MINGap:TIME</a> on page 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Duplicate command since FW 3.20                     |
| SEARch:TRIGger:RFFE:ERRor:BP<br>SEARch:TRIGger:RFFE:ERRor:NOResponse<br>SEARch:TRIGger:RFFE:ERRor:USEquence                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | Functionality is no longer supported since FW 4.50. |
| SENT                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                     |
| SEARch:TRIGger:SENT:TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functionality is not supported. |                                                     |
| TRIGger<m>:SENT:SCONdition                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">TRIGger&lt;m&gt;:SENT:SDCN</a> on page 1989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Replaced since FW 4.15          |                                                     |
| SpaceWire                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                     |
| BUS<m>:SWIRe:MINGap                                                                                                                                                                                                                                                                                                                                                                                                                                         | <a href="#">BUS&lt;m&gt;:SWIRe:MGAP</a> on page 2302                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                     |
| BUS<m>:SWIRe:THRCoupling                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">BUS&lt;m&gt;:SWIRe:COUPling</a> on page 2303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Replaced since FW 3.30          |                                                     |
| BUS<m>:SWIRe:THRPreset                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">BUS&lt;m&gt;:SWIRe:PRESet</a> on page 2303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Replaced since FW 3.30          |                                                     |
| USBPD                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                     |
| SEARch:TRIGger:USBPd:TYPE<br>TRIGger<m>:USBPd:TYPE                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functionality is not supported. |                                                     |
| SEARch:TRIGger:USBPd:FRAMe:SElect<br>TRIGger<m>:USBPd:FRAMe:SElect                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Functionality is not supported. |                                                     |

| Legacy command                                                                                                                                                                                                                                                                                                                                                                                                                          | Replaced by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comment                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:BIT<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:DMAX<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:DMIN<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:DOPerator<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:ENABle<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:IMAX<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:IMIN<br>SEARCh:TRIG-<br>ger:USBPd:FRAMe<m>:FIEld<n>:IOPerator | <a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:BIT</a> on page 2292<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DMAX</a> on page 2292<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DMIN</a> on page 2293<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:DOPerator</a> on page 2293<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:ENABle</a> on page 2291<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IMAX</a> on page 2294<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IMIN</a> on page 2294<br><a href="#">SEARCh:TRIGger:USBPd:FRAMe&lt;m&gt;:<br/>FLD&lt;n&gt;:IOPerator</a> on page 2294                 | Replaced since FW 4.15          |
| TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:BIT<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:DMAX<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:DMIN<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:DOP-<br>erator<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:ENAB<br>le<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:IMAX<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:IMIN<br>TRIG-<br>ger<m>:USBPd:FRAMe<n>:FIEld<o>:IOPer-<br>ator                   | <a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>BIT</a> on page 2282<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>DMAX</a> on page 2282<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>DMIN</a> on page 2282<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>DOPerator</a> on page 2283<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>ENABle</a> on page 2281<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>IMAX</a> on page 2283<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>IMIN</a> on page 2284<br><a href="#">TRIGger&lt;m&gt;:USBPd:FRAMe&lt;n&gt;:FLD&lt;o&gt;:<br/>IOPerator</a> on page 2284 | Replaced since FW 4.15          |
| <b>USB 3.1 Generation 1</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |
| SEARCh:TRIGger:USBThree:TYPE<br>TRIGger<m>:USBThree:TYPE                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functionality is not supported. |
| SEARCh:TRIGger:USBThree:FRAMe:SElect<br>TRIGger<m>:USBThree:FRAMe:SElect                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Functionality is not supported. |

| Legacy command                                                     | Replaced by                                                                                  | Comment                         |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:BIT                 | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:BIT</a> on page 2269         | Replaced since FW 4.15          |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:DMAX                | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:DMAX</a> on page 2269        |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:DMIN                | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:DMIN</a> on page 2269        |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:DOPerator           | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:DOPerator</a> on page 2268   |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:ENABLE              | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:ENABLE</a> on page 2267      |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:IMAX                | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:IMAX</a> on page 2271        |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:IMIN                | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:IMIN</a> on page 2271        |                                 |
| SEARch:TRIGger:USB-<br>Three:FRAMe<m>:FIEld<n>:IOPerator           | <a href="#">SEARch:TRIGger:USBThree:FRAMe&lt;m&gt;:FLD&lt;n&gt;:IOPerator</a> on page 2270   |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:BIT                     | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:BIT</a> on page 2260       |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:DMAX                    | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:DMAX</a> on page 2259      |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:DMIN                    | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:DMIN</a> on page 2259      |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:DOPerator               | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:DOPerator</a> on page 2258 |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:ENABLE                  | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:ENABLE</a> on page 2258    |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:IMAX                    | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:IMAX</a> on page 2261      |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:IMIN                    | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:IMIN</a> on page 2261      |                                 |
| TRIGger<m>:USB-<br>Three:FRAMe<n>:FIEld<o>:IOPerator               | <a href="#">TRIGger&lt;m&gt;:USBThree:FRAMe&lt;n&gt;:FLD&lt;o&gt;:IOPerator</a> on page 2260 |                                 |
| Advanced Jitter Analysis                                           |                                                                                              |                                 |
| ADVJitter<m>::RESult:TYPBathtub<br>ADVJitter<m>::RESult:TYPsynteye |                                                                                              | Functionality is not supported. |
| ADVJitter<m>:SIGNal:UIOffset                                       | <a href="#">ADVJitter&lt;m&gt;:SIGNal:SAMTime</a> on page 2481                               | Replaced since FW 5.10          |

## 24 Maintenance and support

The instrument does not need periodic maintenance. Only the cleaning of the instrument is essential.

To protect the front panel and to transport the instrument to another workplace safely and easily, various accessories are provided. Refer to the data sheet for available covers and cases and their order numbers.

The adjustment of the OCXO oscillator is described in the service manual.

### 24.1 Cleaning

How to clean the product is described in "[Cleaning the product](#)" on page 15.

Do not use any liquids for cleaning. Cleaning agents, solvents (thinners, acetone), acids and bases can damage the front panel labeling, plastic parts and display.

### 24.2 Contacting customer support

#### Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

#### Contact information

Contact our customer support center at [www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support), or follow this QR code:



Figure 24-1: QR code to the Rohde & Schwarz support page



## 24.3 Information for technical support

If you encounter problems that you cannot solve yourself, contact your Rohde & Schwarz support center, see [Contacting customer support](#).

The support center finds solutions more quickly and efficiently, if you provide them with information on the instrument and an error description. To create, collect and save the required information you can use the RTxServiceReporter. The RTxServiceReporter creates a ZIP file with a complete bug report, all relevant setup information, reporting and log files, and the instrument configuration (device footprint).

1. Press the  app key in the [Analysis] section of the frontpanel.
2. On the "R&S Apps" tab, tap "Servie Reporter".  
The RTxServiceReporter creates the report and saves it as ZIP file directly on the Windows desktop.
3. Attach the report file to an email in which you describe the problem. Send the email to the customer support address for your region as listed in the internet.

On the instrument, you can find log files, the device footprint and report files, and other information in the "AppData" folder on the Windows desktop  
(C:\ProgramData\Rohde-Schwarz\RTx).

The "Maintenance" dialog box also provides information on your instrument configuration which can be helpful in case you need support.

## 24.4 Data security

If you have to send the instrument to the service, or if the instrument is used in a secured environment, consider the document "Instrument Security Procedures" that is delivered on the R&S RTO web page.

Instrument configuration data and user data are stored on a removable hard disk only. Thus it is sufficient to remove the hard disk before the instrument leaves a secured environment. Details are given in the document mentioned above.

## 24.5 Transporting

### Lifting and carrying

See: ["Lifting and carrying the instrument"](#) on page 12

### Packing

Use the original packaging material. It consists of antistatic wrap for electrostatic protection and packing material designed for the product.

If you do not have the original packaging, use similar materials that provide the same level of protection.

### Securing

When moving the R&S RTO in a vehicle or using transporting equipment, make sure that the R&S RTO is properly secured. Only use items intended for securing objects.

### Transport altitude

Refer to the the data sheet, the maximum transport altitude without pressure compensation.

## 24.6 Storage

Protect the product against dust. Ensure that the environmental conditions, e.g. temperature range and climatic load, meet the values specified in the data sheet.

## 24.7 Disposal

Rohde & Schwarz is committed to making careful, ecologically sound use of natural resources and minimizing the environmental footprint of our products. Help us by disposing of waste in a way that causes minimum environmental impact.

### Disposing electrical and electronic equipment

A product that is labeled as follows cannot be disposed of in normal household waste after it has come to the end of its service life. Even disposal via the municipal collection points for waste electrical and electronic equipment is not permitted.



*Figure 24-2: Labeling in line with EU directive WEEE*

Rohde & Schwarz has developed a disposal concept for the eco-friendly disposal or recycling of waste material. As a manufacturer, Rohde & Schwarz completely fulfills its obligation to take back and dispose of electrical and electronic waste. Contact your local service representative to dispose of the product.

## List of commands

|                              |      |
|------------------------------|------|
| *CAL?                        | 1288 |
| *CLS                         | 1289 |
| *ESE                         | 1289 |
| *ESR?                        | 1289 |
| *IDN?                        | 1289 |
| *IST?                        | 1290 |
| *OPC                         | 1290 |
| *OPT?                        | 1290 |
| *PCB                         | 1290 |
| *PRE                         | 1290 |
| *PSC                         | 1291 |
| *RCL                         | 1291 |
| *RST                         | 1291 |
| *SAV                         | 1291 |
| *SRE                         | 1291 |
| *STB?                        | 1292 |
| *TRG                         | 1292 |
| *TST?                        | 1292 |
| *WAI                         | 1292 |
| ACQuire:ARESet:COUNT         | 1337 |
| ACQuire:ARESet:COUNT         | 2531 |
| ACQuire:ARESet:IMMEDIATE     | 1336 |
| ACQuire:ARESet:MODE          | 1336 |
| ACQuire:ARESet:MODE          | 2531 |
| ACQuire:ARESet:TIME          | 1336 |
| ACQuire:ARESet:TIME          | 2531 |
| ACQuire:AVAILable?           | 1463 |
| ACQuire:CDTA                 | 1333 |
| ACQuire:COUNt                | 1336 |
| ACQuire:CURREnt?             | 1439 |
| ACQuire:DRESolution?         | 2423 |
| ACQuire:INTERpolate          | 1333 |
| ACQuire:MUWaveform           | 1334 |
| ACQuire:POINts:AADJust       | 1330 |
| ACQuire:POINts:ARATe?        | 1330 |
| ACQuire:POINts:AUTO          | 1329 |
| ACQuire:POINts:DVALue?       | 2423 |
| ACQuire:POINts:MAXimum       | 1330 |
| ACQuire:POINts:ZVALue?       | 1379 |
| ACQuire:POINts[:VALue]       | 1331 |
| ACQuire:RESolution           | 1331 |
| ACQuire:SEGMENTed:AUToreplay | 1338 |
| ACQuire:SEGMENTed:MAX        | 1337 |
| ACQuire:SEGMENTed:STATe      | 1337 |
| ACQuire:SRATe                | 1330 |
| ACQuire:SRReal               | 1331 |
| ACQuire:ZRESolution?         | 1380 |

|                                                                |      |
|----------------------------------------------------------------|------|
| ADVJitter<m>:DCOMposition:CLEBasicmeas.....                    | 2491 |
| ADVJitter<m>:DCOMposition:CLEJitcomp.....                      | 2492 |
| ADVJitter<m>:DCOMposition:CLENoisecomp.....                    | 2492 |
| ADVJitter<m>:DCOMposition:COMPONENTS<n>:ENABLE.....            | 2488 |
| ADVJitter<m>:DCOMposition:ENOBu.....                           | 2502 |
| ADVJitter<m>:DCOMposition:ENP.....                             | 2501 |
| ADVJitter<m>:DCOMposition:JINTerleaved.....                    | 2500 |
| ADVJitter<m>:DCOMposition:MRESplength?.....                    | 2500 |
| ADVJitter<m>:DCOMposition:NHORizontal.....                     | 2502 |
| ADVJitter<m>:DCOMposition:NVERTical.....                       | 2502 |
| ADVJitter<m>:DCOMposition:POSStep.....                         | 2501 |
| ADVJitter<m>:DCOMposition:RESPlength.....                      | 2501 |
| ADVJitter<m>:DCOMposition:RESEstimate.....                     | 2501 |
| ADVJitter<m>:DCOMposition:SELBasicmeas.....                    | 2492 |
| ADVJitter<m>:DCOMposition:SELJitcomp.....                      | 2492 |
| ADVJitter<m>:DCOMposition:SELNoisecomp.....                    | 2492 |
| ADVJitter<m>:DCOMposition:SPJLabels.....                       | 2499 |
| ADVJitter<m>:DCOMposition:SPJTable.....                        | 2499 |
| ADVJitter<m>:DCOMposition:SPNLabels.....                       | 2500 |
| ADVJitter<m>:DCOMposition:TARBer.....                          | 2493 |
| ADVJitter<m>:RESult:BATHtub.....                               | 2493 |
| ADVJitter<m>:RESult:COMPONENTS<n>:HISTogram.....               | 2488 |
| ADVJitter<m>:RESult:COMPONENTS<n>:OFFSet.....                  | 2499 |
| ADVJitter<m>:RESult:COMPONENTS<n>:SCALE.....                   | 2498 |
| ADVJitter<m>:RESult:COMPONENTS<n>:SPECTrum.....                | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:MAXPeakpeak?..... | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:MAXStddev?.....   | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:MINPeakpeak?..... | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:PEAKpeak?.....    | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:STDDev?.....      | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics:WFMCount?.....    | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:STATistics[:MINStddev]?..... | 2489 |
| ADVJitter<m>:RESult:COMPONENTS<n>:TRACK.....                   | 2489 |
| ADVJitter<m>:RESult:ENABLE.....                                | 2487 |
| ADVJitter<m>:RESult:LEVELs.....                                | 2493 |
| ADVJitter<m>:RESult:NBATHtub.....                              | 2494 |
| ADVJitter<m>:RESult:OBUJ.....                                  | 2494 |
| ADVJitter<m>:RESult:OBUN.....                                  | 2495 |
| ADVJitter<m>:RESult:PERiodic<n>:COUNT?.....                    | 2490 |
| ADVJitter<m>:RESult:PERiodic<n>:DIRection?.....                | 2490 |
| ADVJitter<m>:RESult:PERiodic<n>:VALue?.....                    | 2491 |
| ADVJitter<m>:RESult:PERiodic<n>[:FREQUENCY]?.....              | 2491 |
| ADVJitter<m>:RESult:PHORizontal.....                           | 2495 |
| ADVJitter<m>:RESult:PJ.....                                    | 2494 |
| ADVJitter<m>:RESult:PN.....                                    | 2495 |
| ADVJitter<m>:RESult:PVERTical.....                             | 2495 |
| ADVJitter<m>:RESult:STATistics.....                            | 2488 |
| ADVJitter<m>:RESult:STEPresponse.....                          | 2488 |
| ADVJitter<m>:RESult:SYNTheticeye.....                          | 2496 |
| ADVJitter<m>:RESult:TRANSitions.....                           | 2493 |

|                                                    |      |
|----------------------------------------------------|------|
| ADVJitter<m>:RESult:TYPBathtub.....                | 2494 |
| ADVJitter<m>:RESult:TYPSynteye.....                | 2496 |
| ADVJitter<m>:RESult:UNIT.....                      | 2489 |
| ADVJitter<m>:RESult:VERTical:BHContinuous.....     | 2497 |
| ADVJitter<m>:RESult:VERTical:BMTyPe.....           | 2497 |
| ADVJitter<m>:RESult:VERTical:CONTinuous.....       | 2497 |
| ADVJitter<m>:RESult:VERTical:HBINs.....            | 2496 |
| ADVJitter<m>:RESult:VERTical:JSContinuous.....     | 2497 |
| ADVJitter<m>:RESult:VERTical:NHContinuous.....     | 2498 |
| ADVJitter<m>:RESult:VERTical:NSContinuous.....     | 2498 |
| ADVJitter<m>:SIGNal:BITRate.....                   | 2479 |
| ADVJitter<m>:SIGNal:CDRMode.....                   | 2479 |
| ADVJitter<m>:SIGNal:CFEstimation.....              | 2480 |
| ADVJitter<m>:SIGNal:CLEstimation.....              | 2480 |
| ADVJitter<m>:SIGNal:CLFFactor.....                 | 2480 |
| ADVJitter<m>:SIGNal:CLFRequency.....               | 2480 |
| ADVJitter<m>:SIGNal:CLKSource.....                 | 2479 |
| ADVJitter<m>:SIGNal:CLOffset.....                  | 2481 |
| ADVJitter<m>:SIGNal:DAtRate?.....                  | 2481 |
| ADVJitter<m>:SIGNal:EDGE.....                      | 2480 |
| ADVJitter<m>:SIGNal:GATE:COUPling.....             | 2482 |
| ADVJitter<m>:SIGNal:GATE:CURSor.....               | 2482 |
| ADVJitter<m>:SIGNal:GATE:RANGe:ABSolute:START..... | 2482 |
| ADVJitter<m>:SIGNal:GATE:RANGe:ABSolute:STOP.....  | 2482 |
| ADVJitter<m>:SIGNal:GATE:RANGe:MODE.....           | 2483 |
| ADVJitter<m>:SIGNal:GATE:RANGe:RELative:START..... | 2483 |
| ADVJitter<m>:SIGNal:GATE:RANGe:RELative:STOP.....  | 2483 |
| ADVJitter<m>:SIGNal:GATE:STATe.....                | 2484 |
| ADVJitter<m>:SIGNal:GATE:ZDIagram.....             | 2483 |
| ADVJitter<m>:SIGNal:QUICKmeas.....                 | 2478 |
| ADVJitter<m>:SIGNal:REFSource.....                 | 2479 |
| ADVJitter<m>:SIGNal:SAMTime.....                   | 2481 |
| ADVJitter<m>:SIGNal:SERStandard.....               | 2484 |
| ADVJitter<m>:SIGNal:SOURce.....                    | 2478 |
| ADVJitter<m>:SIGNal:TYPE.....                      | 2478 |
| AUToscale.....                                     | 1329 |
| BUS<m>:ARINc:BRMode.....                           | 1881 |
| BUS<m>:ARINc:BRValue.....                          | 1881 |
| BUS<m>:ARINc:MAXGap:BITS.....                      | 1882 |
| BUS<m>:ARINc:MAXGap:SElect.....                    | 1881 |
| BUS<m>:ARINc:MINGap:BITS.....                      | 1882 |
| BUS<m>:ARINc:MINGap:SElect.....                    | 1882 |
| BUS<m>:ARINc:POLarity.....                         | 1882 |
| BUS<m>:ARINc:PRESet.....                           | 1883 |
| BUS<m>:ARINc:SOURce.....                           | 1881 |
| BUS<m>:ARINc:THReshold:HIGH.....                   | 1883 |
| BUS<m>:ARINc:THReshold:LOW.....                    | 1883 |
| BUS<m>:ARINc:WCOut?.....                           | 1887 |
| BUS<m>:ARINc:WORD<n>:DATA?.....                    | 1887 |
| BUS<m>:ARINc:WORD<n>:LABel?.....                   | 1888 |

|                                     |      |
|-------------------------------------|------|
| BUS<m>:ARINc:WORD<n>:PATtern?       | 1888 |
| BUS<m>:ARINc:WORD<n>:SDI?           | 1888 |
| BUS<m>:ARINc:WORD<n>:SSM?           | 1889 |
| BUS<m>:ARINc:WORD<n>:STARt?         | 1889 |
| BUS<m>:ARINc:WORD<n>:STATe?         | 1889 |
| BUS<m>:ARINc:WORD<n>:STOP?          | 1890 |
| BUS<m>:ARINc:WORD<n>:SYMBol?        | 1890 |
| BUS<m>:CAN:BITRate                  | 1738 |
| BUS<m>:CAN:DATA:SOURce              | 1736 |
| BUS<m>:CAN:DATA:THReshold           | 1738 |
| BUS<m>:CAN:FCOunt?                  | 1749 |
| BUS<m>:CAN:FDATa:DBITrate           | 1739 |
| BUS<m>:CAN:FDATa:ENABle             | 1739 |
| BUS<m>:CAN:FDATa:FRAMe<n>:SCValue?  | 1757 |
| BUS<m>:CAN:FDATa:FRAMe<n>:STANdard? | 1750 |
| BUS<m>:CAN:FDATa:JWIDth             | 1741 |
| BUS<m>:CAN:FDATa:PSStandarD         | 1737 |
| BUS<m>:CAN:FDATa:SAMPlepoint        | 1739 |
| BUS<m>:CAN:FDATa:T1Segment          | 1740 |
| BUS<m>:CAN:FDATa:T2Segment          | 1740 |
| BUS<m>:CAN:FRAMe<n>:ACKState?       | 1753 |
| BUS<m>:CAN:FRAMe<n>:ACKValue?       | 1753 |
| BUS<m>:CAN:FRAMe<n>:BITRate?        | 1754 |
| BUS<m>:CAN:FRAMe<n>:BSEPosition?    | 1756 |
| BUS<m>:CAN:FRAMe<n>:BYTE<o>:STATe?  | 1757 |
| BUS<m>:CAN:FRAMe<n>:BYTE<o>:VALue?  | 1757 |
| BUS<m>:CAN:FRAMe<n>:CSSTate?        | 1753 |
| BUS<m>:CAN:FRAMe<n>:CSValue?        | 1754 |
| BUS<m>:CAN:FRAMe<n>:DATA?           | 1752 |
| BUS<m>:CAN:FRAMe<n>:DLCSState?      | 1753 |
| BUS<m>:CAN:FRAMe<n>:DLCValue?       | 1754 |
| BUS<m>:CAN:FRAMe<n>:FERCause?       | 1756 |
| BUS<m>:CAN:FRAMe<n>:IDSTate?        | 1753 |
| BUS<m>:CAN:FRAMe<n>:IDTYpe?         | 1755 |
| BUS<m>:CAN:FRAMe<n>:IDValue?        | 1755 |
| BUS<m>:CAN:FRAMe<n>:NDBYtes?        | 1751 |
| BUS<m>:CAN:FRAMe<n>:SDATa?          | 1774 |
| BUS<m>:CAN:FRAMe<n>:SDEXport?       | 1756 |
| BUS<m>:CAN:FRAMe<n>:STARt?          | 1751 |
| BUS<m>:CAN:FRAMe<n>:STATus?         | 1750 |
| BUS<m>:CAN:FRAMe<n>:STOP?           | 1751 |
| BUS<m>:CAN:FRAMe<n>:SYMBol?         | 1752 |
| BUS<m>:CAN:FRAMe<n>:TYPE?           | 1752 |
| BUS<m>:CAN:JWIDth                   | 1741 |
| BUS<m>:CAN:SAMPlepoint              | 1739 |
| BUS<m>:CAN:T1Segment                | 1740 |
| BUS<m>:CAN:T2Segment                | 1740 |
| BUS<m>:CAN:TECHnology               | 1738 |
| BUS<m>:CAN:TYPE                     | 1737 |
| BUS<m>:CDR:BITRate                  | 2320 |

|                                                   |      |
|---------------------------------------------------|------|
| BUS<m>:CDR:PLL:BWIDth.....                        | 2321 |
| BUS<m>:CDR:PLL:DAMPing.....                       | 2321 |
| BUS<m>:CDR:PLL:ORDer.....                         | 2321 |
| BUS<m>:CDR:PLL:RELBwidth.....                     | 2322 |
| BUS<m>:CDR:RESults.....                           | 2322 |
| BUS<m>:CDR:SYNC.....                              | 2322 |
| BUS<m>:CMSB:ADDFrame.....                         | 2142 |
| BUS<m>:CMSB:BITRate:ENABle.....                   | 2141 |
| BUS<m>:CMSB:BITRate:VALue.....                    | 2141 |
| BUS<m>:CMSB:CLR.....                              | 2142 |
| BUS<m>:CMSB:CODing.....                           | 2132 |
| BUS<m>:CMSB:EXRBits.....                          | 2145 |
| BUS<m>:CMSB:FCOunt?.....                          | 2142 |
| BUS<m>:CMSB:FILTer:ENABle.....                    | 2153 |
| BUS<m>:CMSB:FILTer:ERENable.....                  | 2153 |
| BUS<m>:CMSB:FILTer:ERRor<n>:ENABle.....           | 2153 |
| BUS<m>:CMSB:FILTer:FIENable.....                  | 2154 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:ENABle.....           | 2154 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:BIT.....       | 2154 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:DMAX.....      | 2155 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:DMIN.....      | 2155 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:DOPerator..... | 2155 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:ENABle.....    | 2156 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:IMAX.....      | 2156 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:IMIN.....      | 2156 |
| BUS<m>:CMSB:FILTer:FRAMe<n>:FLD<o>:IOPerator..... | 2156 |
| BUS<m>:CMSB:FILTer:FRENable.....                  | 2154 |
| BUS<m>:CMSB:FRAMe<n>:APPend.....                  | 2143 |
| BUS<m>:CMSB:FRAMe<n>:CCOunt?.....                 | 2143 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:BITCount.....        | 2143 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:BITorder.....        | 2145 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:CLMN.....            | 2145 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:CONDition.....       | 2144 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:CRGB.....            | 2145 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:FORMat.....          | 2144 |
| BUS<m>:CMSB:FRAMe<n>:CELL<o>:NAME.....            | 2143 |
| BUS<m>:CMSB:FRAMe<n>:TYPE.....                    | 2142 |
| BUS<m>:CMSB:GAPTime:ENABle.....                   | 2141 |
| BUS<m>:CMSB:GAPTime:VALue.....                    | 2141 |
| BUS<m>:CMSB:LOAD.....                             | 2146 |
| BUS<m>:CMSB:MANChester:CPHase.....                | 2135 |
| BUS<m>:CMSB:MANChester:DATA.....                  | 2133 |
| BUS<m>:CMSB:MANChester:POLarity.....              | 2133 |
| BUS<m>:CMSB:MANChester:THReshold:COUPling.....    | 2134 |
| BUS<m>:CMSB:MANChester:THReshold:HIGH.....        | 2133 |
| BUS<m>:CMSB:MANChester:THReshold:LOW.....         | 2134 |
| BUS<m>:CMSB:MANChester:THReshold:PRESet.....      | 2134 |
| BUS<m>:CMSB:NRZ:CLCK.....                         | 2135 |
| BUS<m>:CMSB:NRZ:CPHase.....                       | 2137 |
| BUS<m>:CMSB:NRZ:CPOLarity.....                    | 2136 |

|                                           |      |
|-------------------------------------------|------|
| BUS<m>:CMSB:NRZ:DATA.....                 | 2136 |
| BUS<m>:CMSB:NRZ:ENAPolarity.....          | 2138 |
| BUS<m>:CMSB:NRZ:ENBLLe.....               | 2137 |
| BUS<m>:CMSB:NRZ:HYSTeresis:CLCK.....      | 2138 |
| BUS<m>:CMSB:NRZ:HYSTeresis:DATA.....      | 2139 |
| BUS<m>:CMSB:NRZ:HYSTeresis:ENBLLe.....    | 2139 |
| BUS<m>:CMSB:NRZ:IDLpolarity.....          | 2136 |
| BUS<m>:CMSB:NRZ:POLarity.....             | 2138 |
| BUS<m>:CMSB:NRZ:THReshold:CLCK.....       | 2138 |
| BUS<m>:CMSB:NRZ:THReshold:COUpling.....   | 2140 |
| BUS<m>:CMSB:NRZ:THReshold:DATA.....       | 2139 |
| BUS<m>:CMSB:NRZ:THReshold:ENBLLe.....     | 2139 |
| BUS<m>:CMSB:NRZ:THReshold:PRESet.....     | 2140 |
| BUS<m>:CMSB:RCOunt?.....                  | 2158 |
| BUS<m>:CMSB:RESult<n>:CCOunt?.....        | 2161 |
| BUS<m>:CMSB:RESult<n>:CELL<o>:NAME?.....  | 2161 |
| BUS<m>:CMSB:RESult<n>:CELL<o>:START?..... | 2161 |
| BUS<m>:CMSB:RESult<n>:CELL<o>:STATe?..... | 2162 |
| BUS<m>:CMSB:RESult<n>:CELL<o>:STOP?.....  | 2162 |
| BUS<m>:CMSB:RESult<n>:CELL<o>:VALue?..... | 2163 |
| BUS<m>:CMSB:RESult<n>:CONE?.....          | 2160 |
| BUS<m>:CMSB:RESult<n>:CTHRee?.....        | 2160 |
| BUS<m>:CMSB:RESult<n>:CTWO?.....          | 2160 |
| BUS<m>:CMSB:RESult<n>:START?.....         | 2159 |
| BUS<m>:CMSB:RESult<n>:STATe?.....         | 2158 |
| BUS<m>:CMSB:RESult<n>:STOP?.....          | 2159 |
| BUS<m>:CMSB:RESult<n>:TYPE?.....          | 2160 |
| BUS<m>:CMSB:SAVE.....                     | 2146 |
| BUS<m>:CTLE:DCGain.....                   | 2247 |
| BUS<m>:CTLE:ENBLLe.....                   | 2248 |
| BUS<m>:CTLE:P1FReq.....                   | 2248 |
| BUS<m>:CTLE:P2FReq.....                   | 2248 |
| BUS<m>:CTLE:Z1FReq.....                   | 2248 |
| BUS<m>:CXPI:BITRate:ENABLE.....           | 2358 |
| BUS<m>:CXPI:BITRate:VALue.....            | 2358 |
| BUS<m>:CXPI:DORD.....                     | 2359 |
| BUS<m>:CXPI:HYSTeresis.....               | 2359 |
| BUS<m>:CXPI:IBS:MAX.....                  | 2360 |
| BUS<m>:CXPI:IBS:MIN.....                  | 2361 |
| BUS<m>:CXPI:IFS:MAX.....                  | 2361 |
| BUS<m>:CXPI:IFS:MIN.....                  | 2361 |
| BUS<m>:CXPI:POLarity.....                 | 2359 |
| BUS<m>:CXPI:RESult:BITRate?.....          | 2359 |
| BUS<m>:CXPI:RESult:FCOunt?.....           | 2370 |
| BUS<m>:CXPI:RESult:FRAMe<n>:DATA?.....    | 2370 |
| BUS<m>:CXPI:RESult:FRAMe<n>:DLCV?.....    | 2370 |
| BUS<m>:CXPI:RESult:FRAMe<n>:START?.....   | 2371 |
| BUS<m>:CXPI:RESult:FRAMe<n>:STATe?.....   | 2371 |
| BUS<m>:CXPI:RESult:FRAMe<n>:STOP?.....    | 2371 |
| BUS<m>:CXPI:RESult:FRAMe<n>:TYPE?.....    | 2372 |



|                                             |      |
|---------------------------------------------|------|
| BUS<m>:CXPI:RESult:FRAMe<n>:WORD<o>:STATus? | 2372 |
| BUS<m>:CXPI:RESult:FRAMe<n>:WORD<o>:TYPE?   | 2372 |
| BUS<m>:CXPI:RESult:FRAMe<n>:WORD<o>:VALue?  | 2373 |
| BUS<m>:CXPI:SDATa                           | 2360 |
| BUS<m>:CXPI:THReshold                       | 2360 |
| BUS<m>:DDR:BITRate                          | 2387 |
| BUS<m>:DDR:DATA:HYSTeresis                  | 2386 |
| BUS<m>:DDR:DATA:SOURce                      | 2386 |
| BUS<m>:DDR:DATA:THReshold                   | 2386 |
| BUS<m>:DDR:RESult:FCOunt?                   | 2388 |
| BUS<m>:DDR:RESult:FRAMe<n>:FLD<o>:FVAL?     | 2388 |
| BUS<m>:DDR:RESult:FRAMe<n>:FLD<o>:START?    | 2389 |
| BUS<m>:DDR:RESult:FRAMe<n>:FLD<o>:STATus?   | 2389 |
| BUS<m>:DDR:RESult:FRAMe<n>:FLD<o>:STOP?     | 2389 |
| BUS<m>:DDR:RESult:FRAMe<n>:FLD<o>:VAL?      | 2390 |
| BUS<m>:DDR:RESult:FRAMe<n>:NWRDs?           | 2390 |
| BUS<m>:DDR:RESult:FRAMe<n>:START?           | 2390 |
| BUS<m>:DDR:RESult:FRAMe<n>:STATe?           | 2391 |
| BUS<m>:DDR:RESult:FRAMe<n>:STOP?            | 2391 |
| BUS<m>:DDR:RESult:FRAMe<n>:TYPE?            | 2391 |
| BUS<m>:DDR:STANdard                         | 2385 |
| BUS<m>:DDR:STRBe:HYSTeresis                 | 2386 |
| BUS<m>:DDR:STRBe:SOURce                     | 2387 |
| BUS<m>:DDR:STRBe:THReshold                  | 2387 |
| BUS<m>:DPHY:CONFig                          | 2043 |
| BUS<m>:DPHY:CP:HSPeEd:HYSTeresis            | 2047 |
| BUS<m>:DPHY:CP:HSPeEd:THReshold             | 2047 |
| BUS<m>:DPHY:CP:PROBe                        | 2043 |
| BUS<m>:DPHY:CP:SOURce                       | 2044 |
| BUS<m>:DPHY:DNZero:LPOWeR:THLowEr           | 2046 |
| BUS<m>:DPHY:DNZero:LPOWeR:THUPper           | 2045 |
| BUS<m>:DPHY:DNZero:PROBe                    | 2047 |
| BUS<m>:DPHY:DNZero:SOURce                   | 2046 |
| BUS<m>:DPHY:DPONe:HSPeEd:HYSTeresis         | 2047 |
| BUS<m>:DPHY:DPONe:HSPeEd:THReshold          | 2047 |
| BUS<m>:DPHY:DPONe:PROBe                     | 2047 |
| BUS<m>:DPHY:DPONe:SOURce                    | 2046 |
| BUS<m>:DPHY:DPTHree:HSPeEd:HYSTeresis       | 2047 |
| BUS<m>:DPHY:DPTHree:HSPeEd:THReshold        | 2047 |
| BUS<m>:DPHY:DPTHree:PROBe                   | 2047 |
| BUS<m>:DPHY:DPTHree:SOURce                  | 2046 |
| BUS<m>:DPHY:DPTWo:HSPeEd:HYSTeresis         | 2047 |
| BUS<m>:DPHY:DPTWo:HSPeEd:THReshold          | 2047 |
| BUS<m>:DPHY:DPTWo:PROBe                     | 2047 |
| BUS<m>:DPHY:DPTWo:SOURce                    | 2046 |
| BUS<m>:DPHY:DPZero:HSPeEd:HYSTeresis        | 2047 |
| BUS<m>:DPHY:DPZero:HSPeEd:THReshold         | 2047 |
| BUS<m>:DPHY:DPZero:LPOWeR:THLowEr           | 2046 |
| BUS<m>:DPHY:DPZero:LPOWeR:THUPper           | 2045 |
| BUS<m>:DPHY:DPZero:PROBe                    | 2047 |

|                                                   |      |
|---------------------------------------------------|------|
| BUS<m>:DPHY:DPZero:SOURce.....                    | 2046 |
| BUS<m>:DPHY:DRATe.....                            | 2044 |
| BUS<m>:DPHY:DSPData.....                          | 2044 |
| BUS<m>:DPHY:RESult:FCOunt?.....                   | 2055 |
| BUS<m>:DPHY:RESult:FRAMe<n>:CS?.....              | 2055 |
| BUS<m>:DPHY:RESult:FRAMe<n>:DATA?.....            | 2056 |
| BUS<m>:DPHY:RESult:FRAMe<n>:DTName?.....          | 2056 |
| BUS<m>:DPHY:RESult:FRAMe<n>:DTYPe?.....           | 2057 |
| BUS<m>:DPHY:RESult:FRAMe<n>:ECC?.....             | 2057 |
| BUS<m>:DPHY:RESult:FRAMe<n>:NUMPackets?.....      | 2060 |
| BUS<m>:DPHY:RESult:FRAMe<n>:PACKet<o>:IDX?.....   | 2057 |
| BUS<m>:DPHY:RESult:FRAMe<n>:PACKet<o>:VALue?..... | 2058 |
| BUS<m>:DPHY:RESult:FRAMe<n>:STARt?.....           | 2058 |
| BUS<m>:DPHY:RESult:FRAMe<n>:STATe?.....           | 2058 |
| BUS<m>:DPHY:RESult:FRAMe<n>:STOP?.....            | 2059 |
| BUS<m>:DPHY:RESult:FRAMe<n>:TYPE?.....            | 2059 |
| BUS<m>:DPHY:RESult:FRAMe<n>:VCHannel?.....        | 2060 |
| BUS<m>:DPHY:SMLanes.....                          | 2048 |
| BUS<m>:DPHY:THCoupling.....                       | 2045 |
| BUS<m>:DPHY:THPReset.....                         | 2045 |
| BUS<m>:DPHY:VARiant.....                          | 2045 |
| BUS<m>:EBTB:BITDetermi.....                       | 2178 |
| BUS<m>:EBTB:BITRate.....                          | 2174 |
| BUS<m>:EBTB:DIFFerential:SOURce.....              | 2175 |
| BUS<m>:EBTB:DIFFerential:THRHigh.....             | 2175 |
| BUS<m>:EBTB:DIFFerential:THRLow.....              | 2175 |
| BUS<m>:EBTB:DISF.....                             | 2176 |
| BUS<m>:EBTB:DMINus:SOURce.....                    | 2176 |
| BUS<m>:EBTB:DMINus:THReshold.....                 | 2176 |
| BUS<m>:EBTB:DPLus:SOURce.....                     | 2177 |
| BUS<m>:EBTB:DPLus:THReshold.....                  | 2177 |
| BUS<m>:EBTB:EBTRate?.....                         | 2175 |
| BUS<m>:EBTB:FAUToscale.....                       | 2179 |
| BUS<m>:EBTB:FCSY.....                             | 2177 |
| BUS<m>:EBTB:SCOunt?.....                          | 2177 |
| BUS<m>:EBTB:SCSY.....                             | 2178 |
| BUS<m>:EBTB:SYMBol<n>:BYTE?.....                  | 2183 |
| BUS<m>:EBTB:SYMBol<n>:DATA?.....                  | 2182 |
| BUS<m>:EBTB:SYMBol<n>:KDCODE?.....                | 2183 |
| BUS<m>:EBTB:SYMBol<n>:STARt?.....                 | 2182 |
| BUS<m>:EBTB:SYMBol<n>:STATus?.....                | 2182 |
| BUS<m>:EBTB:SYMBol<n>:STOP?.....                  | 2183 |
| BUS<m>:EBTB:SYMBol<n>:TENBit?.....                | 2184 |
| BUS<m>:EBTB:SYNC.....                             | 2178 |
| BUS<m>:EBTB:TYPE.....                             | 2178 |
| BUS<m>:EBTB:USCS.....                             | 2178 |
| BUS<m>:ETHernet:BITRate.....                      | 1899 |
| BUS<m>:ETHernet:POLarity.....                     | 1897 |
| BUS<m>:ETHernet:PRESet.....                       | 1898 |
| BUS<m>:ETHernet:SOURce.....                       | 1897 |

|                                             |      |
|---------------------------------------------|------|
| BUS<m>:ETHeRnet:THReShold:HIGH.....         | 1898 |
| BUS<m>:ETHeRnet:THReShold:LOW.....          | 1898 |
| BUS<m>:ETHeRnet:VAriant.....                | 1897 |
| BUS<m>:ETHeRnet:WCOunt?.....                | 1905 |
| BUS<m>:ETHeRnet:WORD<n>:BITRate?.....       | 1909 |
| BUS<m>:ETHeRnet:WORD<n>:BYTE<o>:VALue?..... | 1909 |
| BUS<m>:ETHeRnet:WORD<n>:CRC?.....           | 1908 |
| BUS<m>:ETHeRnet:WORD<n>:DATA?.....          | 1908 |
| BUS<m>:ETHeRnet:WORD<n>:DEStAddress?.....   | 1907 |
| BUS<m>:ETHeRnet:WORD<n>:DSYmbol?.....       | 1908 |
| BUS<m>:ETHeRnet:WORD<n>:FTYPe?.....         | 1905 |
| BUS<m>:ETHeRnet:WORD<n>:NUMWords?.....      | 1910 |
| BUS<m>:ETHeRnet:WORD<n>:SRCAddress?.....    | 1907 |
| BUS<m>:ETHeRnet:WORD<n>:SSYmbol?.....       | 1909 |
| BUS<m>:ETHeRnet:WORD<n>:START?.....         | 1906 |
| BUS<m>:ETHeRnet:WORD<n>:STATe?.....         | 1906 |
| BUS<m>:ETHeRnet:WORD<n>:STOP?.....          | 1906 |
| BUS<m>:ETHeRnet:WORD<n>:TYPE?.....          | 1907 |
| BUS<m>:EXPResult:DETail.....                | 1672 |
| BUS<m>:EXPResult:SAVE.....                  | 1672 |
| BUS<m>:EXPResult:TIME.....                  | 1672 |
| BUS<m>:FAUToSet.....                        | 1670 |
| BUS<m>:FLXRay:BITRate.....                  | 1810 |
| BUS<m>:FLXRay:CHTYpe.....                   | 1810 |
| BUS<m>:FLXRay:FCOunt?.....                  | 1819 |
| BUS<m>:FLXRay:FRAMe<n>:ADID?.....           | 1822 |
| BUS<m>:FLXRay:FRAMe<n>:CSStAtE?.....        | 1823 |
| BUS<m>:FLXRay:FRAMe<n>:CSValue?.....        | 1824 |
| BUS<m>:FLXRay:FRAMe<n>:CYCount?.....        | 1823 |
| BUS<m>:FLXRay:FRAMe<n>:DATA?.....           | 1821 |
| BUS<m>:FLXRay:FRAMe<n>:FCStAtE?.....        | 1824 |
| BUS<m>:FLXRay:FRAMe<n>:FCValue?.....        | 1824 |
| BUS<m>:FLXRay:FRAMe<n>:FLAGs?.....          | 1822 |
| BUS<m>:FLXRay:FRAMe<n>:PAYLength?.....      | 1823 |
| BUS<m>:FLXRay:FRAMe<n>:START?.....          | 1820 |
| BUS<m>:FLXRay:FRAMe<n>:STATus?.....         | 1820 |
| BUS<m>:FLXRay:FRAMe<n>:STOP?.....           | 1820 |
| BUS<m>:FLXRay:FRAMe<n>:SYMBol?.....         | 1821 |
| BUS<m>:FLXRay:FRAMe<n>:TYPE?.....           | 1821 |
| BUS<m>:FLXRay:POLarity.....                 | 1810 |
| BUS<m>:FLXRay:PRDiff.....                   | 1809 |
| BUS<m>:FLXRay:PRLogic.....                  | 1809 |
| BUS<m>:FLXRay:PRSingle.....                 | 1808 |
| BUS<m>:FLXRay:SEHB.....                     | 1810 |
| BUS<m>:FLXRay:SOURce<n>.....                | 1807 |
| BUS<m>:FLXRay:SRCType.....                  | 1806 |
| BUS<m>:FLXRay:THData.....                   | 1808 |
| BUS<m>:FLXRay:THENable.....                 | 1808 |
| BUS<m>:FLXRay:THReShold<n>.....             | 1808 |
| BUS<m>:FORMAt.....                          | 1671 |

|                                                 |      |
|-------------------------------------------------|------|
| BUS<m>:HBTO:ATTN.....                           | 1920 |
| BUS<m>:HBTO:FDAM.....                           | 1921 |
| BUS<m>:HBTO:FDAP.....                           | 1921 |
| BUS<m>:HBTO:FDIF.....                           | 1921 |
| BUS<m>:HBTO:FTYP.....                           | 1922 |
| BUS<m>:HBTO:MODE.....                           | 1923 |
| BUS<m>:HBTO:POLarity.....                       | 1923 |
| BUS<m>:HBTO:RDAM.....                           | 1922 |
| BUS<m>:HBTO:RDAP.....                           | 1922 |
| BUS<m>:HBTO:RDIF.....                           | 1922 |
| BUS<m>:HBTO:RESult:FCOut?.....                  | 1932 |
| BUS<m>:HBTO:RESult:FRAMe<n>:BITRate?.....       | 1936 |
| BUS<m>:HBTO:RESult:FRAMe<n>:CRC?.....           | 1935 |
| BUS<m>:HBTO:RESult:FRAMe<n>:DATA?.....          | 1934 |
| BUS<m>:HBTO:RESult:FRAMe<n>:DESTaddress?.....   | 1934 |
| BUS<m>:HBTO:RESult:FRAMe<n>:DSYMBOL?.....       | 1935 |
| BUS<m>:HBTO:RESult:FRAMe<n>:FTYPE?.....         | 1932 |
| BUS<m>:HBTO:RESult:FRAMe<n>:NUMWords?.....      | 1935 |
| BUS<m>:HBTO:RESult:FRAMe<n>:SRCaddress?.....    | 1934 |
| BUS<m>:HBTO:RESult:FRAMe<n>:SSYMBOL?.....       | 1935 |
| BUS<m>:HBTO:RESult:FRAMe<n>:START?.....         | 1933 |
| BUS<m>:HBTO:RESult:FRAMe<n>:STATe?.....         | 1932 |
| BUS<m>:HBTO:RESult:FRAMe<n>:STOP?.....          | 1933 |
| BUS<m>:HBTO:RESult:FRAMe<n>:TYPE?.....          | 1934 |
| BUS<m>:HBTO:RESult:FRAMe<n>:WORD<o>:TYPE?.....  | 1936 |
| BUS<m>:HBTO:RESult:FRAMe<n>:WORD<o>:VALue?..... | 1936 |
| BUS<m>:HBTO:RESult:FRAMe<n>:WORD<o>:VSTR?.....  | 1937 |
| BUS<m>:HBTO:RTYP.....                           | 1922 |
| BUS<m>:HBTO:SYMRate.....                        | 1923 |
| BUS<m>:HBTO:THReshold.....                      | 1923 |
| BUS<m>:I2C:FCOut?.....                          | 1684 |
| BUS<m>:I2C:FRAMe<n>:AACcess?.....               | 1684 |
| BUS<m>:I2C:FRAMe<n>:ACcess?.....                | 1685 |
| BUS<m>:I2C:FRAMe<n>:ACOMplete?.....             | 1685 |
| BUS<m>:I2C:FRAMe<n>:ADBStart?.....              | 1685 |
| BUS<m>:I2C:FRAMe<n>:ADDRes?.....                | 1686 |
| BUS<m>:I2C:FRAMe<n>:ADEvice?.....               | 1686 |
| BUS<m>:I2C:FRAMe<n>:AMODE?.....                 | 1686 |
| BUS<m>:I2C:FRAMe<n>:ASTart?.....                | 1687 |
| BUS<m>:I2C:FRAMe<n>:BCOut?.....                 | 1689 |
| BUS<m>:I2C:FRAMe<n>:BITRate?.....               | 1687 |
| BUS<m>:I2C:FRAMe<n>:BYTE<o>:ACcess?.....        | 1690 |
| BUS<m>:I2C:FRAMe<n>:BYTE<o>:ACKStart?.....      | 1690 |
| BUS<m>:I2C:FRAMe<n>:BYTE<o>:COMplete?.....      | 1690 |
| BUS<m>:I2C:FRAMe<n>:BYTE<o>:START?.....         | 1691 |
| BUS<m>:I2C:FRAMe<n>:BYTE<o>:VALue?.....         | 1691 |
| BUS<m>:I2C:FRAMe<n>:DATA?.....                  | 1684 |
| BUS<m>:I2C:FRAMe<n>:RWBStart?.....              | 1687 |
| BUS<m>:I2C:FRAMe<n>:START?.....                 | 1688 |
| BUS<m>:I2C:FRAMe<n>:STATus?.....                | 1688 |

|                                   |      |
|-----------------------------------|------|
| BUS<m>:I2C:FRAME<n>:STOP?         | 1689 |
| BUS<m>:I2C:FRAME<n>:SYMBOL?       | 1689 |
| BUS<m>:I2C:RWBit                  | 1677 |
| BUS<m>:I2C:SCL:SOURce             | 1675 |
| BUS<m>:I2C:SCL:THReshold          | 1676 |
| BUS<m>:I2C:SDA:SOURce             | 1675 |
| BUS<m>:I2C:SDA:THReshold          | 1676 |
| BUS<m>:I2C:TECHnology             | 1676 |
| BUS<m>:I2S:AVARiant               | 1840 |
| BUS<m>:I2S:BORDER                 | 1844 |
| BUS<m>:I2S:CHANnel:LENGth         | 1845 |
| BUS<m>:I2S:CHANnel:OFFSet         | 1844 |
| BUS<m>:I2S:CHANnel:ORDER          | 1844 |
| BUS<m>:I2S:CHANnel:TDMCount       | 1845 |
| BUS<m>:I2S:CLOCK:POLarity         | 1841 |
| BUS<m>:I2S:CLOCK:SOURce           | 1841 |
| BUS<m>:I2S:CLOCK:THReshold        | 1843 |
| BUS<m>:I2S:DATA:POLarity          | 1842 |
| BUS<m>:I2S:DATA:SOURce            | 1842 |
| BUS<m>:I2S:DATA:THReshold         | 1843 |
| BUS<m>:I2S:FCOunt?                | 1850 |
| BUS<m>:I2S:FOFFset                | 1845 |
| BUS<m>:I2S:FRAME<n>:LEFT:STATe?   | 1851 |
| BUS<m>:I2S:FRAME<n>:LEFT:VALue?   | 1851 |
| BUS<m>:I2S:FRAME<n>:RIGHT:STATe?  | 1851 |
| BUS<m>:I2S:FRAME<n>:RIGHT:VALue?  | 1851 |
| BUS<m>:I2S:FRAME<n>:START?        | 1850 |
| BUS<m>:I2S:FRAME<n>:STATe?        | 1850 |
| BUS<m>:I2S:FRAME<n>:STOP?         | 1850 |
| BUS<m>:I2S:FRAME<n>:TDM<o>:STATe? | 1851 |
| BUS<m>:I2S:FRAME<n>:TDM<o>:VALue? | 1852 |
| BUS<m>:I2S:TCOupling              | 1843 |
| BUS<m>:I2S:TRACK:LEFT             | 1853 |
| BUS<m>:I2S:TRACK:RIGHT            | 1853 |
| BUS<m>:I2S:TRACK:TD1Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD2Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD3Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD4Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD5Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD6Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD7Ch            | 1853 |
| BUS<m>:I2S:TRACK:TD8Ch            | 1853 |
| BUS<m>:I2S:WLENGth                | 1844 |
| BUS<m>:I2S:WSElect:POLarity       | 1842 |
| BUS<m>:I2S:WSElect:SOURce         | 1841 |
| BUS<m>:I2S:WSElect:THReshold      | 1843 |
| BUS<m>:LIN:BITRate                | 1779 |
| BUS<m>:LIN:DATA:SOURce            | 1778 |
| BUS<m>:LIN:DATA:THReshold         | 1778 |
| BUS<m>:LIN:FCOunt?                | 1786 |

|                                    |      |
|------------------------------------|------|
| BUS<m>:LIN:FRAME<n>:BITRate?       | 1792 |
| BUS<m>:LIN:FRAME<n>:BYTE<o>:STATe? | 1792 |
| BUS<m>:LIN:FRAME<n>:BYTE<o>:VALue? | 1793 |
| BUS<m>:LIN:FRAME<n>:CSSTate?       | 1791 |
| BUS<m>:LIN:FRAME<n>:CSValue?       | 1791 |
| BUS<m>:LIN:FRAME<n>:DATA?          | 1789 |
| BUS<m>:LIN:FRAME<n>:IDPValue?      | 1790 |
| BUS<m>:LIN:FRAME<n>:IDSTate?       | 1789 |
| BUS<m>:LIN:FRAME<n>:IDValue?       | 1790 |
| BUS<m>:LIN:FRAME<n>:SDATa?         | 1788 |
| BUS<m>:LIN:FRAME<n>:SDEXport?      | 1788 |
| BUS<m>:LIN:FRAME<n>:STARt?         | 1787 |
| BUS<m>:LIN:FRAME<n>:STATus?        | 1787 |
| BUS<m>:LIN:FRAME<n>:STOP?          | 1787 |
| BUS<m>:LIN:FRAME<n>:SYMBol?        | 1788 |
| BUS<m>:LIN:FRAME<n>:SYSTate?       | 1791 |
| BUS<m>:LIN:FRAME<n>:VERSion?       | 1789 |
| BUS<m>:LIN:POLarity                | 1779 |
| BUS<m>:LIN:STANdard                | 1780 |
| BUS<m>:LIN:TECHnology              | 1779 |
| BUS<m>:MDIO:CLOCK:SOURce           | 2190 |
| BUS<m>:MDIO:CLOCK:THReshold:HIGH   | 2190 |
| BUS<m>:MDIO:CLOCK:THReshold:LOW    | 2191 |
| BUS<m>:MDIO:COUPLing               | 2192 |
| BUS<m>:MDIO:DATA:SOURce            | 2190 |
| BUS<m>:MDIO:DATA:THReshold:HIGH    | 2191 |
| BUS<m>:MDIO:DATA:THReshold:LOW     | 2191 |
| BUS<m>:MDIO:PRESet                 | 2191 |
| BUS<m>:MDIO:WCOUNt?                | 2195 |
| BUS<m>:MDIO:WORD<n>:DATA?          | 2195 |
| BUS<m>:MDIO:WORD<n>:PHYS?          | 2195 |
| BUS<m>:MDIO:WORD<n>:REGI?          | 2195 |
| BUS<m>:MDIO:WORD<n>:ST?            | 2196 |
| BUS<m>:MDIO:WORD<n>:STARt?         | 2196 |
| BUS<m>:MDIO:WORD<n>:STATe?         | 2196 |
| BUS<m>:MDIO:WORD<n>:STOP?          | 2197 |
| BUS<m>:MDIO:WORD<n>:SYMBol?        | 2197 |
| BUS<m>:MDIO:WORD<n>:TYPE?          | 2198 |
| BUS<m>:MILStd:MAXResponse:BITS     | 1855 |
| BUS<m>:MILStd:MAXResponse:SElect   | 1855 |
| BUS<m>:MILStd:MINGap:BITS          | 1856 |
| BUS<m>:MILStd:MINGap:SElect        | 1855 |
| BUS<m>:MILStd:POLarity             | 1856 |
| BUS<m>:MILStd:PRESet               | 1856 |
| BUS<m>:MILStd:SOURce               | 1855 |
| BUS<m>:MILStd:THReshold:HIGH       | 1856 |
| BUS<m>:MILStd:THReshold:LOW        | 1857 |
| BUS<m>:MILStd:WCOUNt?              | 1867 |
| BUS<m>:MILStd:WORD<n>:DATA?        | 1868 |
| BUS<m>:MILStd:WORD<n>:INFO?        | 1868 |

|                                            |      |
|--------------------------------------------|------|
| BUS<m>:MILStd:WORD<n>:RTADdress?           | 1868 |
| BUS<m>:MILStd:WORD<n>:START?               | 1869 |
| BUS<m>:MILStd:WORD<n>:STATUS?              | 1869 |
| BUS<m>:MILStd:WORD<n>:STOP?                | 1870 |
| BUS<m>:MILStd:WORD<n>:SYMBol?              | 1870 |
| BUS<m>:MILStd:WORD<n>:TYPE?                | 1870 |
| BUS<m>:MPHY:DLANes                         | 2074 |
| BUS<m>:MPHY:DONE:SOURce                    | 2075 |
| BUS<m>:MPHY:DONE:THReshold                 | 2075 |
| BUS<m>:MPHY:DTHRee:SOURce                  | 2075 |
| BUS<m>:MPHY:DTHRee:THReshold               | 2075 |
| BUS<m>:MPHY:DTWO:SOURce                    | 2075 |
| BUS<m>:MPHY:DTWO:THReshold                 | 2075 |
| BUS<m>:MPHY:DZERo:SOURce                   | 2075 |
| BUS<m>:MPHY:DZERo:THReshold                | 2075 |
| BUS<m>:MPHY:RESult:FCOunt?                 | 2094 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CCOunt?        | 2095 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CELL<o>:DATA?  | 2095 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CELL<o>:START? | 2095 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CELL<o>:STATe? | 2096 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CELL<o>:STOP?  | 2096 |
| BUS<m>:MPHY:RESult:FRAMe<n>:CELL<o>:TYPE?  | 2097 |
| BUS<m>:MPHY:RESult:FRAMe<n>:DATA?          | 2097 |
| BUS<m>:MPHY:RESult:FRAMe<n>:FTYPE?         | 2093 |
| BUS<m>:MPHY:RESult:FRAMe<n>:INFO?          | 2097 |
| BUS<m>:MPHY:RESult:FRAMe<n>:SSFT?          | 2098 |
| BUS<m>:MPHY:RESult:FRAMe<n>:START?         | 2098 |
| BUS<m>:MPHY:RESult:FRAMe<n>:STATe?         | 2094 |
| BUS<m>:MPHY:RESult:FRAMe<n>:STOP?          | 2098 |
| BUS<m>:MPHY:SCRMode                        | 2076 |
| BUS<m>:MPHY:SMLanes                        | 2076 |
| BUS<m>:MPHY:THCoupling                     | 2076 |
| BUS<m>:MPHY:THPReset                       | 2076 |
| BUS<m>:MPHY:VARiant                        | 2074 |
| BUS<m>:NEWList                             | 1671 |
| BUS<m>:PARallel:BIT<n>:DESKew              | 2419 |
| BUS<m>:PARallel:BIT<n>:LABel               | 2420 |
| BUS<m>:PARallel:BIT<n>[:STATe]             | 2417 |
| BUS<m>:PARallel:CLEar                      | 2422 |
| BUS<m>:PARallel:CLOCK                      | 2422 |
| BUS<m>:PARallel:CLON                       | 2421 |
| BUS<m>:PARallel:CLSLope                    | 2422 |
| BUS<m>:PARallel:DATA:FORMat                | 2420 |
| BUS<m>:PARallel:DATA:FORMat                | 2434 |
| BUS<m>:PARallel:DATA:HEADer?               | 2435 |
| BUS<m>:PARallel:DATA[:VALues]?             | 2435 |
| BUS<m>:PARallel:DECTable<n>:COUNT?         | 2423 |
| BUS<m>:PARallel:DECTable<n>:DATA?          | 2423 |
| BUS<m>:PARallel:DECTable<n>:SHOW           | 2422 |
| BUS<m>:PARallel:DESOffset                  | 2420 |

|                                                  |      |
|--------------------------------------------------|------|
| BUS<m>:PARAllel:DISPlay:BTYP.....                | 2421 |
| BUS<m>:PARAllel:DISPlay:SHBU.....                | 2421 |
| BUS<m>:PARAllel:DISPlay:SHDI.....                | 2420 |
| BUS<m>:PARAllel:HYSTeresis<n>.....               | 2419 |
| BUS<m>:PARAllel:STATe.....                       | 2416 |
| BUS<m>:PARAllel:TECHnology.....                  | 2418 |
| BUS<m>:PARAllel:THCOupling.....                  | 2418 |
| BUS<m>:PARAllel:THReshold<n>.....                | 2417 |
| BUS<m>:PCIE:DSCRambling.....                     | 2318 |
| BUS<m>:PCIE:FIDLe.....                           | 2318 |
| BUS<m>:PCIE:GEN.....                             | 2319 |
| BUS<m>:PCIE:LNKW.....                            | 2319 |
| BUS<m>:PCIE:LONE:SOURce.....                     | 2319 |
| BUS<m>:PCIE:LONE:THRHIGH.....                    | 2320 |
| BUS<m>:PCIE:LONE:THRLow.....                     | 2320 |
| BUS<m>:PCIE:LTHRee:SOURce.....                   | 2319 |
| BUS<m>:PCIE:LTHRee:THRHIGH.....                  | 2320 |
| BUS<m>:PCIE:LTHRee:THRLow.....                   | 2320 |
| BUS<m>:PCIE:LTWO:SOURce.....                     | 2319 |
| BUS<m>:PCIE:LTWO:THRHIGH.....                    | 2320 |
| BUS<m>:PCIE:LTWO:THRLow.....                     | 2320 |
| BUS<m>:PCIE:LZER:SOURce.....                     | 2319 |
| BUS<m>:PCIE:LZER:THRHIGH.....                    | 2320 |
| BUS<m>:PCIE:LZER:THRLow.....                     | 2320 |
| BUS<m>:PCIE:RESult:PACKet<n>:ADDR?.....          | 2331 |
| BUS<m>:PCIE:RESult:PACKet<n>:BITRate?.....       | 2338 |
| BUS<m>:PCIE:RESult:PACKet<n>:CPID?.....          | 2332 |
| BUS<m>:PCIE:RESult:PACKet<n>:CPS?.....           | 2332 |
| BUS<m>:PCIE:RESult:PACKet<n>:DATA?.....          | 2332 |
| BUS<m>:PCIE:RESult:PACKet<n>:DFC?.....           | 2333 |
| BUS<m>:PCIE:RESult:PACKet<n>:FCOunt?.....        | 2333 |
| BUS<m>:PCIE:RESult:PACKet<n>:FLD<o>:FVAL?.....   | 2333 |
| BUS<m>:PCIE:RESult:PACKet<n>:FLD<o>:STATus?..... | 2334 |
| BUS<m>:PCIE:RESult:PACKet<n>:FLD<o>:TYPE?.....   | 2334 |
| BUS<m>:PCIE:RESult:PACKet<n>:FLD<o>:VAL?.....    | 2335 |
| BUS<m>:PCIE:RESult:PACKet<n>:HFC?.....           | 2335 |
| BUS<m>:PCIE:RESult:PACKet<n>:LEN?.....           | 2335 |
| BUS<m>:PCIE:RESult:PACKet<n>:RQID?.....          | 2335 |
| BUS<m>:PCIE:RESult:PACKet<n>:SEQN?.....          | 2336 |
| BUS<m>:PCIE:RESult:PACKet<n>:STARt?.....         | 2336 |
| BUS<m>:PCIE:RESult:PACKet<n>:STATe?.....         | 2336 |
| BUS<m>:PCIE:RESult:PACKet<n>:STOP?.....          | 2337 |
| BUS<m>:PCIE:RESult:PACKet<n>:TAG?.....           | 2337 |
| BUS<m>:PCIE:RESult:PACKet<n>:TYPE?.....          | 2338 |
| BUS<m>:PCIE:RESult:PCOunt?.....                  | 2338 |
| BUS<m>:PCIE:SMLanes.....                         | 2320 |
| BUS<m>:RESult.....                               | 1670 |
| BUS<m>:RFFE:CLOCK:SOURce.....                    | 2012 |
| BUS<m>:RFFE:CLOCK:THReshold:HIGH.....            | 2014 |
| BUS<m>:RFFE:CLOCK:THReshold:HYSTeresis.....      | 2014 |



|                                             |      |
|---------------------------------------------|------|
| BUS<m>:RFFE:CLOCK:THReshold:LOW.....        | 2014 |
| BUS<m>:RFFE:COUPling.....                   | 2013 |
| BUS<m>:RFFE:DATA:SOURce.....                | 2012 |
| BUS<m>:RFFE:DATA:THReshold:HIGH.....        | 2013 |
| BUS<m>:RFFE:DATA:THReshold:HYSteresis.....  | 2013 |
| BUS<m>:RFFE:DATA:THReshold:LOW.....         | 2013 |
| BUS<m>:RFFE:FCOunt?.....                    | 2026 |
| BUS<m>:RFFE:GFILter.....                    | 2015 |
| BUS<m>:RFFE:GFWidth.....                    | 2015 |
| BUS<m>:RFFE:MINGap:SElect.....              | 2015 |
| BUS<m>:RFFE:MINGap:TIME.....                | 2015 |
| BUS<m>:RFFE:PRESet.....                     | 2012 |
| BUS<m>:RFFE:RDMD.....                       | 2016 |
| BUS<m>:RFFE:SEquence<n>:ADDReSS?.....       | 2028 |
| BUS<m>:RFFE:SEquence<n>:BCOunt?.....        | 2029 |
| BUS<m>:RFFE:SEquence<n>:BYTE<o>:NAME?.....  | 2031 |
| BUS<m>:RFFE:SEquence<n>:BYTE<o>:STATe?..... | 2031 |
| BUS<m>:RFFE:SEquence<n>:BYTE<o>:VALue?..... | 2032 |
| BUS<m>:RFFE:SEquence<n>:DATA?.....          | 2029 |
| BUS<m>:RFFE:SEquence<n>:PADone?.....        | 2030 |
| BUS<m>:RFFE:SEquence<n>:PADZero?.....       | 2030 |
| BUS<m>:RFFE:SEquence<n>:PCTRI?.....         | 2030 |
| BUS<m>:RFFE:SEquence<n>:RBTRate?.....       | 2030 |
| BUS<m>:RFFE:SEquence<n>:SADD?.....          | 2028 |
| BUS<m>:RFFE:SEquence<n>:STARt?.....         | 2027 |
| BUS<m>:RFFE:SEquence<n>:STATe?.....         | 2026 |
| BUS<m>:RFFE:SEquence<n>:STOP?.....          | 2027 |
| BUS<m>:RFFE:SEquence<n>:SYMBol?.....        | 2029 |
| BUS<m>:RFFE:SEquence<n>:TYPE?.....          | 2027 |
| BUS<m>:RFFE:SEquence<n>:WBTRate?.....       | 2031 |
| BUS<m>:RFFE:VERSIon.....                    | 2016 |
| BUS<m>:SENT:CLKPeriod.....                  | 1983 |
| BUS<m>:SENT:CLKTolerance.....               | 1983 |
| BUS<m>:SENT:CRCMethod.....                  | 1984 |
| BUS<m>:SENT:CRCVersion.....                 | 1984 |
| BUS<m>:SENT:DATA:SOURce.....                | 1982 |
| BUS<m>:SENT:DATA:THReshold.....             | 1982 |
| BUS<m>:SENT:DNIBbles.....                   | 1983 |
| BUS<m>:SENT:FCOunt?.....                    | 1992 |
| BUS<m>:SENT:FRAMe<n>:BITRate?.....          | 1998 |
| BUS<m>:SENT:FRAMe<n>:CSValue?.....          | 1993 |
| BUS<m>:SENT:FRAMe<n>:DATA?.....             | 1993 |
| BUS<m>:SENT:FRAMe<n>:IDTYpe?.....           | 1994 |
| BUS<m>:SENT:FRAMe<n>:IDValue?.....          | 1994 |
| BUS<m>:SENT:FRAMe<n>:NIBble<o>:STATe?.....  | 1994 |
| BUS<m>:SENT:FRAMe<n>:NIBble<o>:VALue?.....  | 1995 |
| BUS<m>:SENT:FRAMe<n>:PAPTicks?.....         | 1995 |
| BUS<m>:SENT:FRAMe<n>:SCOM?.....             | 1996 |
| BUS<m>:SENT:FRAMe<n>:SDATa?.....            | 1996 |
| BUS<m>:SENT:FRAMe<n>:SDEXport?.....         | 1996 |

|                                     |      |
|-------------------------------------|------|
| BUS<m>:SENT:FRAMe<n>:START?         | 1992 |
| BUS<m>:SENT:FRAMe<n>:STATus?        | 1992 |
| BUS<m>:SENT:FRAMe<n>:STOP?          | 1992 |
| BUS<m>:SENT:FRAMe<n>:SYMBol?        | 1997 |
| BUS<m>:SENT:FRAMe<n>:SYNCduration?  | 1997 |
| BUS<m>:SENT:FRAMe<n>:TYPE?          | 1997 |
| BUS<m>:SENT:PPFLenGth               | 1985 |
| BUS<m>:SENT:PPULse                  | 1984 |
| BUS<m>:SENT:RDSL                    | 1998 |
| BUS<m>:SENT:SFOrmat                 | 1983 |
| BUS<m>:SENT:TECHnology              | 1982 |
| BUS<m>:SETReflevels                 | 1670 |
| BUS<m>:SPI:BORDer                   | 1707 |
| BUS<m>:SPI:FCOunt?                  | 1715 |
| BUS<m>:SPI:FRAMe<n>:BITRate?        | 1715 |
| BUS<m>:SPI:FRAMe<n>:COUnT?          | 1715 |
| BUS<m>:SPI:FRAMe<n>:DATA?           | 1714 |
| BUS<m>:SPI:FRAMe<n>:START?          | 1716 |
| BUS<m>:SPI:FRAMe<n>:STATus?         | 1715 |
| BUS<m>:SPI:FRAMe<n>:STOP?           | 1716 |
| BUS<m>:SPI:FRAMe<n>:WCOunt?         | 1717 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:FMISo?  | 1718 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:FMOSi?  | 1719 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:MISO?   | 1718 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:MOSI?   | 1719 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:START?  | 1717 |
| BUS<m>:SPI:FRAMe<n>:WORD<o>:STOP?   | 1717 |
| BUS<m>:SPI:FRCondition              | 1711 |
| BUS<m>:SPI:MISO:POLarity            | 1709 |
| BUS<m>:SPI:MISO:SOURce              | 1709 |
| BUS<m>:SPI:MISO:THReshold           | 1710 |
| BUS<m>:SPI:MOSI:POLarity            | 1710 |
| BUS<m>:SPI:MOSI:SOURce              | 1710 |
| BUS<m>:SPI:MOSI:THReshold           | 1710 |
| BUS<m>:SPI:SCLK:SOURce              | 1708 |
| BUS<m>:SPI:SCLK:THReshold           | 1710 |
| BUS<m>:SPI:SSElect:POLarity         | 1709 |
| BUS<m>:SPI:SSElect:SOURce           | 1708 |
| BUS<m>:SPI:SSElect:THReshold        | 1710 |
| BUS<m>:SPI:TIMEout                  | 1711 |
| BUS<m>:SPI:WSIZe                    | 1708 |
| BUS<m>:SWIRe:BPOStion               | 2301 |
| BUS<m>:SWIRe:COUPling               | 2303 |
| BUS<m>:SWIRe:DATA:HYSTeresis        | 2301 |
| BUS<m>:SWIRe:DATA:SOURce            | 2301 |
| BUS<m>:SWIRe:DATA:THReshold         | 2301 |
| BUS<m>:SWIRe:MGAP                   | 2302 |
| BUS<m>:SWIRe:PRESet                 | 2303 |
| BUS<m>:SWIRe:RESults:FCOunt         | 2307 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:DATA? | 2307 |

|                                              |      |
|----------------------------------------------|------|
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:FVAL?   | 2309 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:START?  | 2310 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:STATus? | 2310 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:STOP?   | 2311 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:TYPE?   | 2311 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:FLD<o>:VAL?    | 2311 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:START?         | 2307 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:STATe?         | 2308 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:STOP?          | 2308 |
| BUS<m>:SWIRe:RESults:FRAMe<n>:TYPE?          | 2309 |
| BUS<m>:SWIRe:STRBe:HYSTeresis                | 2302 |
| BUS<m>:SWIRe:STRBe:SOURce                    | 2302 |
| BUS<m>:SWIRe:STRBe:THReshold                 | 2302 |
| BUS<m>:SWIRe:SYSlect                         | 2303 |
| BUS<m>:SYMBols                               | 1671 |
| BUS<m>:TBTO:ATTN                             | 1950 |
| BUS<m>:TBTO:FDAM                             | 1950 |
| BUS<m>:TBTO:FDAP                             | 1951 |
| BUS<m>:TBTO:FDIF                             | 1951 |
| BUS<m>:TBTO:FTYP                             | 1951 |
| BUS<m>:TBTO:MODE                             | 1952 |
| BUS<m>:TBTO:POLarity                         | 1952 |
| BUS<m>:TBTO:RDAM                             | 1951 |
| BUS<m>:TBTO:RDAP                             | 1952 |
| BUS<m>:TBTO:RDIF                             | 1952 |
| BUS<m>:TBTO:RESult:FCOut?                    | 1953 |
| BUS<m>:TBTO:RESult:FRAMe<n>:BITRate?         | 1954 |
| BUS<m>:TBTO:RESult:FRAMe<n>:CRC?             | 1954 |
| BUS<m>:TBTO:RESult:FRAMe<n>:DATA?            | 1954 |
| BUS<m>:TBTO:RESult:FRAMe<n>:DEStAddress?     | 1955 |
| BUS<m>:TBTO:RESult:FRAMe<n>:DSYMBOL?         | 1955 |
| BUS<m>:TBTO:RESult:FRAMe<n>:FTYPE?           | 1955 |
| BUS<m>:TBTO:RESult:FRAMe<n>:NUMWords?        | 1956 |
| BUS<m>:TBTO:RESult:FRAMe<n>:SRCaddress?      | 1956 |
| BUS<m>:TBTO:RESult:FRAMe<n>:SSYMBOL?         | 1956 |
| BUS<m>:TBTO:RESult:FRAMe<n>:STARt?           | 1957 |
| BUS<m>:TBTO:RESult:FRAMe<n>:STATe?           | 1957 |
| BUS<m>:TBTO:RESult:FRAMe<n>:STOP?            | 1958 |
| BUS<m>:TBTO:RESult:FRAMe<n>:TYPE?            | 1958 |
| BUS<m>:TBTO:RESult:FRAMe<n>:WORD<o>:TYPE?    | 1958 |
| BUS<m>:TBTO:RESult:FRAMe<n>:WORD<o>:VALue?   | 1959 |
| BUS<m>:TBTO:RTYP                             | 1952 |
| BUS<m>:TBTO:SYMRate                          | 1953 |
| BUS<m>:THReshold                             | 1670 |
| BUS<m>:TYPE                                  | 1669 |
| BUS<m>:TYPE                                  | 1674 |
| BUS<m>:UART:BAUDRate                         | 1729 |
| BUS<m>:UART:BITRate                          | 1728 |
| BUS<m>:UART:EWORd                            | 1731 |
| BUS<m>:UART:PACKets                          | 1730 |

|                                                  |      |
|--------------------------------------------------|------|
| BUS<m>:UART:PARity.....                          | 1729 |
| BUS<m>:UART:POLarity.....                        | 1729 |
| BUS<m>:UART:RX:SOURce.....                       | 1726 |
| BUS<m>:UART:RX:THReshold.....                    | 1727 |
| BUS<m>:UART:SBIT.....                            | 1730 |
| BUS<m>:UART:SSIZe.....                           | 1730 |
| BUS<m>:UART:TECHnology.....                      | 1728 |
| BUS<m>:UART:TOUT.....                            | 1731 |
| BUS<m>:UART:TX:SOURce.....                       | 1727 |
| BUS<m>:UART:TX:THReshold.....                    | 1727 |
| BUS<m>:UART:WORD<n>:BITRate?.....                | 1734 |
| BUS<m>:UART:WORD<n>:COUNT?.....                  | 1734 |
| BUS<m>:UART:WORD<n>:RXValue?.....                | 1734 |
| BUS<m>:UART:WORD<n>:SOURce?.....                 | 1735 |
| BUS<m>:UART:WORD<n>:START?.....                  | 1735 |
| BUS<m>:UART:WORD<n>:STATe?.....                  | 1735 |
| BUS<m>:UART:WORD<n>:TXValue?.....                | 1734 |
| BUS<m>:USB:DATA:SOURce.....                      | 2206 |
| BUS<m>:USB:DATA:THReshold.....                   | 2208 |
| BUS<m>:USB:DIFFerential:SOURce.....              | 2206 |
| BUS<m>:USB:DIFFerential:THReshold.....           | 2207 |
| BUS<m>:USB:DMINus:SOURce.....                    | 2206 |
| BUS<m>:USB:DMINus:THReshold.....                 | 2207 |
| BUS<m>:USB:DPLus:SOURce.....                     | 2205 |
| BUS<m>:USB:DPLus:THReshold.....                  | 2207 |
| BUS<m>:USB:PACKet<n>:ADDRes?.....                | 2221 |
| BUS<m>:USB:PACKet<n>:CRC?.....                   | 2222 |
| BUS<m>:USB:PACKet<n>:DATA?.....                  | 2222 |
| BUS<m>:USB:PACKet<n>:ENDPoint?.....              | 2222 |
| BUS<m>:USB:PACKet<n>:ET?.....                    | 2223 |
| BUS<m>:USB:PACKet<n>:FRAME?.....                 | 2223 |
| BUS<m>:USB:PACKet<n>:PID?.....                   | 2220 |
| BUS<m>:USB:PACKet<n>:PORT?.....                  | 2223 |
| BUS<m>:USB:PACKet<n>:SC?.....                    | 2224 |
| BUS<m>:USB:PACKet<n>:SEU?.....                   | 2224 |
| BUS<m>:USB:PACKet<n>:START?.....                 | 2224 |
| BUS<m>:USB:PACKet<n>:STATus?.....                | 2224 |
| BUS<m>:USB:PACKet<n>:STOP?.....                  | 2225 |
| BUS<m>:USB:PCOunt?.....                          | 2225 |
| BUS<m>:USB:STRobe:SOURce.....                    | 2207 |
| BUS<m>:USB:STRobe:THReshold.....                 | 2208 |
| BUS<m>:USB:TECHnology.....                       | 2205 |
| BUS<m>:USBPd:DETail.....                         | 2276 |
| BUS<m>:USBPd:HYSTeresis.....                     | 2277 |
| BUS<m>:USBPd:RESult:FCOunt?.....                 | 2285 |
| BUS<m>:USBPd:RESult:FRAME<n>:DATA?.....          | 2285 |
| BUS<m>:USBPd:RESult:FRAME<n>:FLD<o>:FVAL?.....   | 2285 |
| BUS<m>:USBPd:RESult:FRAME<n>:FLD<o>:START?.....  | 2286 |
| BUS<m>:USBPd:RESult:FRAME<n>:FLD<o>:STATus?..... | 2285 |
| BUS<m>:USBPd:RESult:FRAME<n>:FLD<o>:STOP?.....   | 2286 |

|                                                        |      |
|--------------------------------------------------------|------|
| BUS<m>:USBPd:RESult:FRAMe<n>:FLD<o>:TYPE?              | 2287 |
| BUS<m>:USBPd:RESult:FRAMe<n>:FLD<o>:VAL?               | 2287 |
| BUS<m>:USBPd:RESult:FRAMe<n>:INFO?                     | 2287 |
| BUS<m>:USBPd:RESult:FRAMe<n>:START?                    | 2288 |
| BUS<m>:USBPd:RESult:FRAMe<n>:STATe?                    | 2288 |
| BUS<m>:USBPd:RESult:FRAMe<n>:STOP?                     | 2288 |
| BUS<m>:USBPd:RESult:FRAMe<n>:TYPE?                     | 2289 |
| BUS<m>:USBPd:SOURce                                    | 2277 |
| BUS<m>:USBPd:THRBottom                                 | 2277 |
| BUS<m>:USBPd:THRShold                                  | 2277 |
| BUS<m>:USBPd:THRMid                                    | 2278 |
| BUS<m>:USBPd:THRTop                                    | 2278 |
| BUS<m>:USBThree:BITR                                   | 2249 |
| BUS<m>:USBThree:DFE:COEFFicient                        | 2249 |
| BUS<m>:USBThree:DFE:ENBLe                              | 2249 |
| BUS<m>:USBThree:DFE:ESTCoeff                           | 2249 |
| BUS<m>:USBThree:DFE:TCONt                              | 2250 |
| BUS<m>:USBThree:POLarity                               | 2246 |
| BUS<m>:USBThree:PROToCol                               | 2250 |
| BUS<m>:USBThree:RESult:FCOunt?                         | 2262 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:FVAL?           | 2265 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:START?          | 2264 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:STATus?         | 2264 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:STOP?           | 2265 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:TYPE?           | 2264 |
| BUS<m>:USBThree:RESult:FRAMe<n>:FLD<o>:VAL?            | 2265 |
| BUS<m>:USBThree:RESult:FRAMe<n>:INFO?                  | 2262 |
| BUS<m>:USBThree:RESult:FRAMe<n>:START?                 | 2263 |
| BUS<m>:USBThree:RESult:FRAMe<n>:STATe?                 | 2263 |
| BUS<m>:USBThree:RESult:FRAMe<n>:STOP?                  | 2263 |
| BUS<m>:USBThree:RESult:FRAMe<n>:TYPE?                  | 2262 |
| BUS<m>:USBThree:SCRMode                                | 2247 |
| BUS<m>:USBThree:SOURce                                 | 2245 |
| BUS<m>:USBThree:THRHigh                                | 2246 |
| BUS<m>:USBThree:THRLow                                 | 2246 |
| BUS<m>:USBThree:TYPE                                   | 2247 |
| BUS<m>:ZCOupling                                       | 1671 |
| BUS<m>[:STATe]                                         | 1669 |
| CALCulate:MATH<m>:ARITHmetics                          | 1459 |
| CALCulate:MATH<m>:DATA:HEADer?                         | 1462 |
| CALCulate:MATH<m>:DATA:HEADer?                         | 1577 |
| CALCulate:MATH<m>:DATA:STYPe?                          | 1461 |
| CALCulate:MATH<m>:DATA:STYPe?                          | 1576 |
| CALCulate:MATH<m>:DATA[:VALues]?                       | 1462 |
| CALCulate:MATH<m>:DATA[:VALues]?                       | 1577 |
| CALCulate:MATH<m>:ENVSelection                         | 1458 |
| CALCulate:MATH<m>:FFT:BANDwidth[:RESolution]:ADJusted? | 1566 |
| CALCulate:MATH<m>:FFT:BANDwidth[:RESolution]:AUTO      | 1567 |
| CALCulate:MATH<m>:FFT:BANDwidth[:RESolution]:RATio     | 1567 |
| CALCulate:MATH<m>:FFT:BANDwidth[:RESolution][:VALue]   | 1567 |

|                                                             |      |
|-------------------------------------------------------------|------|
| CALCulate:MATH<m>:FFT:CFRequency.....                       | 1565 |
| CALCulate:MATH<m>:FFT:COUPled:WITH<1..8>.....               | 1576 |
| CALCulate:MATH<m>:FFT:FRAMe:ARITHmetics.....                | 1569 |
| CALCulate:MATH<m>:FFT:FRAMe:COVerage?.....                  | 1569 |
| CALCulate:MATH<m>:FFT:FRAMe:MAXCount.....                   | 1569 |
| CALCulate:MATH<m>:FFT:FRAMe:OFACtor.....                    | 1570 |
| CALCulate:MATH<m>:FFT:FULLspan.....                         | 1565 |
| CALCulate:MATH<m>:FFT:GATE:ABSolute:START.....              | 1571 |
| CALCulate:MATH<m>:FFT:GATE:ABSolute:STOP.....               | 1571 |
| CALCulate:MATH<m>:FFT:GATE:COUPling.....                    | 1570 |
| CALCulate:MATH<m>:FFT:GATE:MODE.....                        | 1571 |
| CALCulate:MATH<m>:FFT:GATE:RELative:START.....              | 1572 |
| CALCulate:MATH<m>:FFT:GATE:RELative:STOP.....               | 1572 |
| CALCulate:MATH<m>:FFT:GATE:ZCOupling.....                   | 1572 |
| CALCulate:MATH<m>:FFT:GATE[:STATe].....                     | 1573 |
| CALCulate:MATH<m>:FFT:LOGScale.....                         | 1564 |
| CALCulate:MATH<m>:FFT:MAGNitude:LEVel.....                  | 1573 |
| CALCulate:MATH<m>:FFT:MAGNitude:RANGe.....                  | 1573 |
| CALCulate:MATH<m>:FFT:MAGNitude:SCALE.....                  | 1573 |
| CALCulate:MATH<m>:FFT:PHASe:SCALE.....                      | 1574 |
| CALCulate:MATH<m>:FFT:PHASe:SUPPression.....                | 1575 |
| CALCulate:MATH<m>:FFT:PHASe:THReshold.....                  | 1575 |
| CALCulate:MATH<m>:FFT:PHASe:UNWRap.....                     | 1575 |
| CALCulate:MATH<m>:FFT:SPAN.....                             | 1566 |
| CALCulate:MATH<m>:FFT:SPECTrogram:CMODE.....                | 1578 |
| CALCulate:MATH<m>:FFT:SPECTrogram:STATe.....                | 1578 |
| CALCulate:MATH<m>:FFT:SPECTrogram:TIMeline<n>:POSition..... | 1579 |
| CALCulate:MATH<m>:FFT:SPECTrogram:TIMeline<n>:STATe.....    | 1579 |
| CALCulate:MATH<m>:FFT:START.....                            | 1564 |
| CALCulate:MATH<m>:FFT:STOP.....                             | 1565 |
| CALCulate:MATH<m>:FFT:TYPE.....                             | 1566 |
| CALCulate:MATH<m>:FFT:USEColtab.....                        | 1578 |
| CALCulate:MATH<m>:FFT:WINDow:TYPE.....                      | 1567 |
| CALCulate:MATH<m>:STATe.....                                | 1458 |
| CALCulate:MATH<m>:VERTical:MAXimum.....                     | 1461 |
| CALCulate:MATH<m>:VERTical:OFFSet.....                      | 1460 |
| CALCulate:MATH<m>:VERTical:RANGe.....                       | 1460 |
| CALCulate:MATH<m>:VERTical:SCALE.....                       | 1461 |
| CALCulate:MATH<m>[:EXPRession][:DEFine].....                | 1458 |
| CALibration:DATE?.....                                      | 1323 |
| CALibration:DATE?.....                                      | 2564 |
| CALibration:RESult?.....                                    | 1324 |
| CALibration:RESult?.....                                    | 2564 |
| CALibration:SOURce:FREQuency.....                           | 1388 |
| CALibration:SOURce:STATe.....                               | 1388 |
| CALibration:TIME?.....                                      | 1324 |
| CALibration:TIME?.....                                      | 2564 |
| CDR:HARDware:BITRate.....                                   | 2509 |
| CDR:HARDware:BREStimate.....                                | 2509 |
| CDR:HARDware:ESLope.....                                    | 2509 |

|                                         |      |
|-----------------------------------------|------|
| CDR:HARDware:PLL:BWIDth.....            | 2510 |
| CDR:HARDware:PLL:DAMPing.....           | 2510 |
| CDR:HARDware:PLL:ORDer.....             | 2509 |
| CDR:HARDware:PLL:RELBwidth.....         | 2510 |
| CDR:HARDware:SAMTime.....               | 2510 |
| CDR:HARDware:SAMTime.....               | 2512 |
| CDR:HARDware:SERStandard.....           | 2509 |
| CDR:HARDware:SOURce.....                | 2508 |
| CDR:SOFTware<m>:ALGorithm.....          | 2503 |
| CDR:SOFTware<m>:BITRate.....            | 2505 |
| CDR:SOFTware<m>:ESBRate:BREstimate..... | 2504 |
| CDR:SOFTware<m>:ESBRate:CONTInuous..... | 2504 |
| CDR:SOFTware<m>:ESBRate:SOURce.....     | 2504 |
| CDR:SOFTware<m>:ESLope.....             | 2505 |
| CDR:SOFTware<m>:PLL:BWIDth.....         | 2506 |
| CDR:SOFTware<m>:PLL:DAMPing.....        | 2507 |
| CDR:SOFTware<m>:PLL:ORDer.....          | 2506 |
| CDR:SOFTware<m>:PLL:RELBwidth.....      | 2507 |
| CDR:SOFTware<m>:RESults.....            | 2506 |
| CDR:SOFTware<m>:REVLockpll.....         | 2507 |
| CDR:SOFTware<m>:SAMTime.....            | 2508 |
| CDR:SOFTware<m>:SERStandard.....        | 2503 |
| CDR:SOFTware<m>:SYNC.....               | 2505 |
| CHANnel<m>:AAFPermanent.....            | 1343 |
| CHANnel<m>:BANDwidth.....               | 1341 |
| CHANnel<m>:COUPling.....                | 1338 |
| CHANnel<m>:CPLing.....                  | 1342 |
| CHANnel<m>:DIGFilter:CUToff.....        | 1385 |
| CHANnel<m>:DIGFilter:STATe.....         | 1385 |
| CHANnel<m>:EATScale.....                | 1348 |
| CHANnel<m>:EATTenuation.....            | 1348 |
| CHANnel<m>:EXPortstate.....             | 1650 |
| CHANnel<m>:GND.....                     | 1339 |
| CHANnel<m>:IMPedance.....               | 1342 |
| CHANnel<m>:INVert.....                  | 1341 |
| CHANnel<m>:IQ:CFRequency.....           | 2467 |
| CHANnel<m>:IQ:DATA:HEADer?.....         | 2470 |
| CHANnel<m>:IQ:DATA[:VALues]?.....       | 2469 |
| CHANnel<m>:IQ:INPMode.....              | 2466 |
| CHANnel<m>:IQ:INPTYPE.....              | 2466 |
| CHANnel<m>:IQ:SBIF.....                 | 2468 |
| CHANnel<m>:IQ:SBRF.....                 | 2468 |
| CHANnel<m>:IQ:WARning:MESSage?.....     | 2469 |
| CHANnel<m>:IQ:WARning[:STATe]?.....     | 2469 |
| CHANnel<m>:OFFSet.....                  | 1340 |
| CHANnel<m>:OVERload.....                | 1342 |
| CHANnel<m>:POSition.....                | 1340 |
| CHANnel<m>:RANGe.....                   | 1340 |
| CHANnel<m>:SCALE.....                   | 1339 |
| CHANnel<m>:SKEW:EXTended.....           | 1387 |

|                                                     |      |
|-----------------------------------------------------|------|
| CHANnel<m>:SKEW:MANual.....                         | 1386 |
| CHANnel<m>:SKEW:TIME.....                           | 1387 |
| CHANnel<m>:STATe.....                               | 1338 |
| CHANnel<m>[:WAVEform<n>]:ARITHmetics.....           | 1335 |
| CHANnel<m>[:WAVEform<n>]:DATA:HEADer?.....          | 1343 |
| CHANnel<m>[:WAVEform<n>]:DATA[:VALues]?.....        | 1344 |
| CHANnel<m>[:WAVEform<n>]:HISTory:CURRent.....       | 1463 |
| CHANnel<m>[:WAVEform<n>]:HISTory:PLAY.....          | 1465 |
| CHANnel<m>[:WAVEform<n>]:HISTory:REPLay.....        | 1465 |
| CHANnel<m>[:WAVEform<n>]:HISTory:STARt.....         | 1464 |
| CHANnel<m>[:WAVEform<n>]:HISTory:STOP.....          | 1464 |
| CHANnel<m>[:WAVEform<n>]:HISTory:TPACq.....         | 1465 |
| CHANnel<m>[:WAVEform<n>]:HISTory:TSABsolute?.....   | 1466 |
| CHANnel<m>[:WAVEform<n>]:HISTory:TSDate?.....       | 1466 |
| CHANnel<m>[:WAVEform<n>]:HISTory:TSRelative?.....   | 1466 |
| CHANnel<m>[:WAVEform<n>]:HISTory:TSRReference?..... | 1467 |
| CHANnel<m>[:WAVEform<n>]:HISTory[:STATe].....       | 1463 |
| CHANnel<m>[:WAVEform<n>]:TYPE.....                  | 1334 |
| CHANnel<m>[:WAVEform<n>][:STATe].....               | 1334 |
| CURSor<m>:AOFF.....                                 | 1471 |
| CURSor<m>:FFT:SETCenter.....                        | 1479 |
| CURSor<m>:FFT:TOCenter.....                         | 1479 |
| CURSor<m>:FUNCTion.....                             | 1471 |
| CURSor<m>:LABel.....                                | 1477 |
| CURSor<m>:MAXimum:LEFT.....                         | 1480 |
| CURSor<m>:MAXimum:NEXT.....                         | 1480 |
| CURSor<m>:MAXimum:RIGHT.....                        | 1480 |
| CURSor<m>:MAXimum[:PEAK].....                       | 1479 |
| CURSor<m>:PEXCursion.....                           | 1628 |
| CURSor<m>:SIAD.....                                 | 1477 |
| CURSor<m>:SOURce.....                               | 1471 |
| CURSor<m>:SSOurce.....                              | 1472 |
| CURSor<m>:STATe.....                                | 1470 |
| CURSor<m>:STYLe.....                                | 1313 |
| CURSor<m>:THReshold.....                            | 1629 |
| CURSor<m>:TRACKing[:STATe].....                     | 1474 |
| CURSor<m>:USSource.....                             | 1473 |
| CURSor<m>:X1ENvelope.....                           | 1476 |
| CURSor<m>:X1Position.....                           | 1474 |
| CURSor<m>:X2ENvelope.....                           | 1477 |
| CURSor<m>:X2Position.....                           | 1474 |
| CURSor<m>:XCoupling.....                            | 1475 |
| CURSor<m>:XDELta:INVerse?.....                      | 1478 |
| CURSor<m>:XDELta[:VALue]?.....                      | 1478 |
| CURSor<m>:Y1Position.....                           | 1475 |
| CURSor<m>:Y2Position.....                           | 1475 |
| CURSor<m>:YCOupling.....                            | 1476 |
| CURSor<m>:YDELta:SLOPe.....                         | 1479 |
| CURSor<m>:YDELta[:VALue]?.....                      | 1478 |
| DEEMbedding<m>:ADD.....                             | 2553 |



|                                                    |      |
|----------------------------------------------------|------|
| DEEMbedding<m>:BANDwidth.....                      | 2554 |
| DEEMbedding<m>:CADC?.....                          | 2561 |
| DEEMbedding<m>:CCOut?.....                         | 2553 |
| DEEMbedding<m>:CMPDelay.....                       | 2554 |
| DEEMbedding<m>:COMPonent<n>:IDENTical.....         | 2560 |
| DEEMbedding<m>:COMPonent<n>:IPONe.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:IPTWo.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:LOAD:IMPedance?.....   | 2558 |
| DEEMbedding<m>:COMPonent<n>:LOAD:REMProbeload..... | 2558 |
| DEEMbedding<m>:COMPonent<n>:MODE.....              | 2557 |
| DEEMbedding<m>:COMPonent<n>:NAME.....              | 2557 |
| DEEMbedding<m>:COMPonent<n>:OPONe.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:OPTWo.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:PCOut?.....            | 2557 |
| DEEMbedding<m>:COMPonent<n>:SPONe.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:SPTWo.....             | 2561 |
| DEEMbedding<m>:COMPonent<n>:TYPE.....              | 2556 |
| DEEMbedding<m>:COMPonent<n>[:STATE].....           | 2556 |
| DEEMbedding<m>:DELete.....                         | 2555 |
| DEEMbedding<m>:MATtenuation?.....                  | 2562 |
| DEEMbedding<m>:MGain?.....                         | 2562 |
| DEEMbedding<m>:NAME.....                           | 2555 |
| DEEMbedding<m>:OPEN.....                           | 2555 |
| DEEMbedding<m>:PRESet.....                         | 2554 |
| DEEMbedding<m>:REMove.....                         | 2553 |
| DEEMbedding<m>:SAVE.....                           | 2555 |
| DEEMbedding<m>[:STATE].....                        | 2552 |
| DIAGnostic:SERVice:CHANnelcount?.....              | 1325 |
| DIAGnostic:SERVice:COMPutername.....               | 1298 |
| DIAGnostic:SERVice:FWVersion?.....                 | 1325 |
| DIAGnostic:SERVice:PARTnumber.....                 | 1325 |
| DIAGnostic:SERVice:PWD.....                        | 2565 |
| DIAGnostic:SERVice:SERialnumber?.....              | 1325 |
| DIAGnostic:SERVice:STST:EXECute.....               | 2564 |
| DIAGnostic:SERVice:STST:STATE?.....                | 1324 |
| DIAGnostic:SERVice:STST:STATE?.....                | 2564 |
| DIAGnostic:SERVice:WFAModel?.....                  | 2563 |
| DIAGnostic:SERVice:WFASeries?.....                 | 2563 |
| DIAGnostic:SERVice:WFAType?.....                   | 2563 |
| DIFFerential<m>:AOUTput.....                       | 1382 |
| DIFFerential<m>:BOUTput.....                       | 1382 |
| DIFFerential<m>:COMMON:OFFSet.....                 | 1384 |
| DIFFerential<m>:COMMON:POSition.....               | 1384 |
| DIFFerential<m>:COMMON:SCALE.....                  | 1383 |
| DIFFerential<m>:COMMON:STATE.....                  | 1383 |
| DIFFerential<m>:COUPling.....                      | 1383 |
| DIFFerential<m>:DIFFerential:OFFSet.....           | 1384 |
| DIFFerential<m>:DIFFerential:POSition.....         | 1384 |
| DIFFerential<m>:DIFFerential:SCALE.....            | 1383 |
| DIFFerential<m>:DIFFerential:STATE.....            | 1383 |

|                                                       |      |
|-------------------------------------------------------|------|
| DIFFerential<m>:NSIGnal:STATe.....                    | 1383 |
| DIFFerential<m>:NSIGnal[:SElect].....                 | 1382 |
| DIFFerential<m>:PSIGnal:STATe.....                    | 1383 |
| DIFFerential<m>:PSIGnal[:SElect].....                 | 1382 |
| DIFFerential<m>:STATe.....                            | 1382 |
| DIGital<m>:DATA:HEADer?.....                          | 2434 |
| DIGital<m>:DATA[:VALues]?.....                        | 2434 |
| DIGital<m>:DESKew.....                                | 2416 |
| DIGital<m>:DISPlay.....                               | 2413 |
| DIGital<m>:HYSTeresis.....                            | 2415 |
| DIGital<m>:LABel.....                                 | 2415 |
| DIGital<m>:TECHnology.....                            | 2414 |
| DIGital<m>:THCOupling.....                            | 2414 |
| DIGital<m>:THReshold.....                             | 2414 |
| DISPlay:CLR.....                                      | 1320 |
| DISPlay:COLor:PALette:ADD.....                        | 1299 |
| DISPlay:COLor:PALette:COUNt?.....                     | 1299 |
| DISPlay:COLor:PALette:POINt:ADD.....                  | 1300 |
| DISPlay:COLor:PALette:POINt:COUNt?.....               | 1301 |
| DISPlay:COLor:PALette:POINt:INSert.....               | 1300 |
| DISPlay:COLor:PALette:POINt:REMOve.....               | 1300 |
| DISPlay:COLor:PALette:POINt[:VALue].....              | 1300 |
| DISPlay:COLor:PALette:REMOve.....                     | 1299 |
| DISPlay:COLor:SIGNAL<m>:ASSign.....                   | 1298 |
| DISPlay:COLor:SIGNAL<m>:COLor.....                    | 1298 |
| DISPlay:COLor:SIGNAL<m>:USE.....                      | 1299 |
| DISPlay:DIAGram:CROSShair.....                        | 1302 |
| DISPlay:DIAGram:FINegrid.....                         | 1301 |
| DISPlay:DIAGram:GRID.....                             | 1301 |
| DISPlay:DIAGram:LABels.....                           | 1301 |
| DISPlay:DIAGram:STYLE.....                            | 1320 |
| DISPlay:DIAGram:TITLe.....                            | 1306 |
| DISPlay:DIAGram:XFIXed.....                           | 1302 |
| DISPlay:DIAGram:YFIXed.....                           | 1302 |
| DISPlay:EXTended:PORDialogs.....                      | 1313 |
| DISPlay:EXTended:POSDialogs.....                      | 1313 |
| DISPlay:GATE:TRANSparency.....                        | 1306 |
| DISPlay:INTensity.....                                | 1320 |
| DISPlay:PERsistence:INFinite.....                     | 1319 |
| DISPlay:PERsistence:RESet.....                        | 1319 |
| DISPlay:PERsistence:TIME.....                         | 1319 |
| DISPlay:PERsistence[:STATe].....                      | 1319 |
| DISPlay:RESultboxes:CUPosition.....                   | 1314 |
| DISPlay:RESultboxes:DEPosition.....                   | 1672 |
| DISPlay:RESultboxes:MEPosition.....                   | 1314 |
| DISPlay:SIGBar[:STATe].....                           | 1306 |
| DISPlay:SIGNAL:LABel:ADD.....                         | 1308 |
| DISPlay:SIGNAL:LABel:FONTsize.....                    | 1308 |
| DISPlay:SIGNAL:LABel:HORIZontal:ABSolute:POStion..... | 1312 |
| DISPlay:SIGNAL:LABel:HORIZontal:RELative:POStion..... | 1312 |

|                                                     |      |
|-----------------------------------------------------|------|
| DISPlay:SIGNal:LABel:POSMoDe.....                   | 1307 |
| DISPlay:SIGNal:LABel:REMove.....                    | 1310 |
| DISPlay:SIGNal:LABel:SHOW.....                      | 1310 |
| DISPlay:SIGNal:LABel:TEXT.....                      | 1311 |
| DISPlay:SIGNal:LABel:VERTical:ABSolute:POStion..... | 1312 |
| DISPlay:SIGNal:LABel:VERTical:RELative:POStion..... | 1312 |
| DISPlay:TRIGger:LINes.....                          | 1394 |
| EXECutable:NAME.....                                | 1667 |
| EXECutable:PARameter.....                           | 1667 |
| EXECutable:WDIRectory.....                          | 1668 |
| EXPort:HISTogram:DATA?.....                         | 1657 |
| EXPort:HISTogram:INCidence.....                     | 1656 |
| EXPort:HISTogram:NAME.....                          | 1656 |
| EXPort:HISTogram:SAVE.....                          | 1657 |
| EXPort:HISTogram:SElect.....                        | 1656 |
| EXPort:MEASurement:DATA?.....                       | 1659 |
| EXPort:MEASurement:NAME.....                        | 1659 |
| EXPort:MEASurement:SAVE.....                        | 1659 |
| EXPort:MEASurement:SElect.....                      | 1658 |
| EXPort:MEASurement:TYPE.....                        | 1658 |
| EXPort:RESult:DECSymbol.....                        | 1667 |
| EXPort:RESult:DELimiter.....                        | 1667 |
| EXPort:RESult:NAME.....                             | 1658 |
| EXPort:RESult:NUMeric.....                          | 1658 |
| EXPort:RESult:SAVE.....                             | 1658 |
| EXPort:RESult:SElect.....                           | 1657 |
| EXPort:WAVEform:CURSorset.....                      | 1653 |
| EXPort:WAVEform:DISPlayoff.....                     | 1655 |
| EXPort:WAVEform:DLOGging.....                       | 1653 |
| EXPort:WAVEform:FASTexport.....                     | 1656 |
| EXPort:WAVEform:INCXvalues.....                     | 1654 |
| EXPort:WAVEform:MEAS.....                           | 1653 |
| EXPort:WAVEform:MULTichannel.....                   | 1650 |
| EXPort:WAVEform:NAME.....                           | 1651 |
| EXPort:WAVEform:RAW.....                            | 1655 |
| EXPort:WAVEform:SAVE.....                           | 1651 |
| EXPort:WAVEform:SCOPE.....                          | 1651 |
| EXPort:WAVEform:SOURce.....                         | 1648 |
| EXPort:WAVEform:STARt.....                          | 1652 |
| EXPort:WAVEform:STOP.....                           | 1652 |
| EXPort:WAVEform:TIMestamps.....                     | 1654 |
| EXPort:WAVEform:ZOOM.....                           | 1652 |
| EYE<m>:DISPlay[:MODE].....                          | 2404 |
| EYE<m>:FILTer:BPATtern:CENTer.....                  | 2409 |
| EYE<m>:FILTer:BPATtern:MODE.....                    | 2409 |
| EYE<m>:FILTer:BPATtern:PREFix<1..8>.....            | 2409 |
| EYE<m>:FILTer:BPATtern:RESet.....                   | 2410 |
| EYE<m>:FILTer:BPATtern:SLEFt.....                   | 2410 |
| EYE<m>:FILTer:BPATtern:SRIGHt.....                  | 2410 |
| EYE<m>:FILTer:BPATtern:SUFFix<1..5>.....            | 2409 |

|                                             |      |
|---------------------------------------------|------|
| EYE<m>:FILTer:DDR:FTYPe.....                | 2410 |
| EYE<m>:FILTer:DDR:LEnError.....             | 2411 |
| EYE<m>:FILTer:STATe.....                    | 2409 |
| EYE<m>:HORizontal:ABSolute:POSition.....    | 2403 |
| EYE<m>:HORizontal:ABSolute:RANGe.....       | 2403 |
| EYE<m>:HORizontal:UINterval:BITRate.....    | 2403 |
| EYE<m>:HORizontal:UINterval:POSition.....   | 2404 |
| EYE<m>:HORizontal:UINterval:RANGe.....      | 2403 |
| EYE<m>:HORizontal[:UNIT].....               | 2402 |
| EYE<m>:MSLices.....                         | 2404 |
| EYE<m>:QUALify:GATE:ABSolute:START.....     | 2406 |
| EYE<m>:QUALify:GATE:ABSolute:STOP.....      | 2406 |
| EYE<m>:QUALify:GATE:COUPling.....           | 2405 |
| EYE<m>:QUALify:GATE:CURSor.....             | 2406 |
| EYE<m>:QUALify:GATE:MODE.....               | 2405 |
| EYE<m>:QUALify:GATE:RELative:START.....     | 2406 |
| EYE<m>:QUALify:GATE:RELative:STOP.....      | 2406 |
| EYE<m>:QUALify:GATE:ZDiagram.....           | 2407 |
| EYE<m>:QUALify:GATE[:STATe].....            | 2405 |
| EYE<m>:QUALify:SIGNal:CONDition.....        | 2408 |
| EYE<m>:QUALify:SIGNal:LSElect.....          | 2408 |
| EYE<m>:QUALify:SIGNal:SOURce.....           | 2407 |
| EYE<m>:QUALify:SIGNal[:STATe].....          | 2407 |
| EYE<m>:SOURce.....                          | 2401 |
| EYE<m>:TREFerence:LEVel.....                | 2402 |
| EYE<m>:TREFerence:SLOPe.....                | 2402 |
| EYE<m>:TREFerence[:SOURce].....             | 2401 |
| EYE<m>[:STATe].....                         | 2401 |
| FORMat:BORDER.....                          | 1294 |
| FORMat:BORDER.....                          | 1389 |
| FORMat:BPATtern.....                        | 1295 |
| FORMat[:DATA].....                          | 1293 |
| GENerator:ALIGNment:DC:ABORt.....           | 2454 |
| GENerator:ALIGNment:DC:RESult:DATE?.....    | 2454 |
| GENerator:ALIGNment:DC:RESult:TIME?.....    | 2454 |
| GENerator:ALIGNment:DC:RESult[:STATe]?..... | 2454 |
| GENerator:ALIGNment:DC[:START].....         | 2455 |
| GENerator:SYNC[:COMBination].....           | 2456 |
| GPIB:ADDRess.....                           | 1295 |
| GPIB:TERMinator.....                        | 1295 |
| HCOPY:CMAP<m>:DEFault.....                  | 1662 |
| HCOPY:DESTination<1..2>.....                | 1660 |
| HCOPY:DEVice<m>:INVerse.....                | 1661 |
| HCOPY:DEVice<m>:LANGuage.....               | 1661 |
| HCOPY:IMMEDIATE<m>:NEXT.....                | 1663 |
| HCOPY:IMMEDIATE<m>[:DUM].....               | 1663 |
| HCOPY:ISBA.....                             | 1663 |
| HCOPY:SSD.....                              | 1662 |
| HCOPY:WBKG.....                             | 1662 |
| HDEFinition:BWIDth.....                     | 1389 |

|                                          |      |
|------------------------------------------|------|
| HDEFinition:RESolution?                  | 1389 |
| HDEFinition:STATe                        | 1389 |
| IQ:BWIDth?                               | 2467 |
| IQ:INSRate                               | 2466 |
| IQ:RBWIDth                               | 2466 |
| IQ:RENgth                                | 2467 |
| IQ:SRATe                                 | 2467 |
| IQ:STATe                                 | 2465 |
| LAYout:ADD                               | 1302 |
| LAYout:HISTogram:ADD                     | 1520 |
| LAYout:HISTogram:HORZ:ABSolute:START     | 1522 |
| LAYout:HISTogram:HORZ:ABSolute:STOP      | 1522 |
| LAYout:HISTogram:HORZ:MODE               | 1522 |
| LAYout:HISTogram:HORZ:RELative:START     | 1523 |
| LAYout:HISTogram:HORZ:RELative:STOP      | 1523 |
| LAYout:HISTogram:MODE                    | 1521 |
| LAYout:HISTogram:REMove                  | 1525 |
| LAYout:HISTogram:RESet                   | 1525 |
| LAYout:HISTogram:SOURce                  | 1521 |
| LAYout:HISTogram:VERTical:ABSolute:START | 1523 |
| LAYout:HISTogram:VERTical:ABSolute:STOP  | 1524 |
| LAYout:HISTogram:VERTical:MODE           | 1523 |
| LAYout:HISTogram:VERTical:RELative:START | 1524 |
| LAYout:HISTogram:VERTical:RELative:STOP  | 1524 |
| LAYout:REMove                            | 1304 |
| LAYout:SHOW                              | 1304 |
| LAYout:SIGNAL:ASSign                     | 1304 |
| LAYout:SIGNAL:AXIS                       | 1468 |
| LAYout:SIGNAL:UNASSign                   | 1306 |
| LAYout:ZOOM:ADD                          | 1440 |
| LAYout:ZOOM:ADDCoupled                   | 1440 |
| LAYout:ZOOM:HORZ:ABSolute:POSition       | 1441 |
| LAYout:ZOOM:HORZ:ABSolute:SPAN           | 1442 |
| LAYout:ZOOM:HORZ:ABSolute:START          | 1442 |
| LAYout:ZOOM:HORZ:ABSolute:STOP           | 1443 |
| LAYout:ZOOM:HORZ:MODE                    | 1441 |
| LAYout:ZOOM:HORZ:RELative:POSition       | 1443 |
| LAYout:ZOOM:HORZ:RELative:SPAN           | 1443 |
| LAYout:ZOOM:HORZ:RELative:START          | 1444 |
| LAYout:ZOOM:HORZ:RELative:STOP           | 1444 |
| LAYout:ZOOM:ONEDiagram                   | 1307 |
| LAYout:ZOOM:POSCoupling                  | 1441 |
| LAYout:ZOOM:REMove                       | 1448 |
| LAYout:ZOOM:VERTical:ABSolute:POSition   | 1445 |
| LAYout:ZOOM:VERTical:ABSolute:SPAN       | 1445 |
| LAYout:ZOOM:VERTical:ABSolute:START      | 1446 |
| LAYout:ZOOM:VERTical:ABSolute:STOP       | 1446 |
| LAYout:ZOOM:VERTical:MODE                | 1444 |
| LAYout:ZOOM:VERTical:RELative:POSition   | 1446 |
| LAYout:ZOOM:VERTical:RELative:SPAN       | 1447 |

|                                                              |      |
|--------------------------------------------------------------|------|
| LAYout:ZOOM:VERTical:RELative:START.....                     | 1447 |
| LAYout:ZOOM:VERTical:RELative:STOP.....                      | 1447 |
| MEASurement<m>:ADDitional.....                               | 1486 |
| MEASurement<m>:AMPTime:ALEVel.....                           | 1494 |
| MEASurement<m>:AMPTime:ARITHmetic:CONStant.....              | 1501 |
| MEASurement<m>:AMPTime:ARITHmetic:COUNit.....                | 1502 |
| MEASurement<m>:AMPTime:ARITHmetic:CUNState.....              | 1502 |
| MEASurement<m>:AMPTime:ARITHmetic:CUUNit.....                | 1503 |
| MEASurement<m>:AMPTime:ARITHmetic:CUUState.....              | 1503 |
| MEASurement<m>:AMPTime:ARITHmetic:OPERator.....              | 1503 |
| MEASurement<m>:AMPTime:ARITHmetic:PARAmeter<n>:AMPTime.....  | 1504 |
| MEASurement<m>:AMPTime:ARITHmetic:PARAmeter<n>:GROup.....    | 1504 |
| MEASurement<m>:AMPTime:ARITHmetic:PARAmeter<n>:SPECTrum..... | 1505 |
| MEASurement<m>:AMPTime:ARITHmetic:PARAmeter<n>:TYPE.....     | 1505 |
| MEASurement<m>:AMPTime:CLCK<n>:LSElect.....                  | 1498 |
| MEASurement<m>:AMPTime:CSlope.....                           | 1498 |
| MEASurement<m>:AMPTime:DATA<n>:LSElect.....                  | 1499 |
| MEASurement<m>:AMPTime:DELay<n>:DIRection.....               | 1496 |
| MEASurement<m>:AMPTime:DELay<n>:ECOunt.....                  | 1496 |
| MEASurement<m>:AMPTime:DELay<n>:LSElect.....                 | 1496 |
| MEASurement<m>:AMPTime:DELay<n>:SLOPe.....                   | 1497 |
| MEASurement<m>:AMPTime:DTOTrigger<n>:LSElect.....            | 1499 |
| MEASurement<m>:AMPTime:DTOTrigger<n>:SLOPe.....              | 1499 |
| MEASurement<m>:AMPTime:ESlope.....                           | 1498 |
| MEASurement<m>:AMPTime:LCHeck<n>:LOWer:LIMit.....            | 1500 |
| MEASurement<m>:AMPTime:LCHeck<n>:LOWer:MARGIN.....           | 1501 |
| MEASurement<m>:AMPTime:LCHeck<n>:UPPer:LIMit.....            | 1500 |
| MEASurement<m>:AMPTime:LCHeck<n>:UPPer:MARGIN.....           | 1501 |
| MEASurement<m>:AMPTime:LCHeck<n>:VALid.....                  | 1500 |
| MEASurement<m>:AMPTime:PFSlope.....                          | 1495 |
| MEASurement<m>:AMPTime:PSlope.....                           | 1495 |
| MEASurement<m>:AMPTime:PTCount.....                          | 1497 |
| MEASurement<m>:AOFF.....                                     | 1486 |
| MEASurement<m>:AON.....                                      | 1486 |
| MEASurement<m>:ARES?.....                                    | 1487 |
| MEASurement<m>:ARNames.....                                  | 1488 |
| MEASurement<m>:CATegory.....                                 | 1484 |
| MEASurement<m>:CLEar.....                                    | 1531 |
| MEASurement<m>:DETThreshold.....                             | 1494 |
| MEASurement<m>:DISPlay:GROuping.....                         | 1314 |
| MEASurement<m>:DISPlay:HISTogram.....                        | 1530 |
| MEASurement<m>:DISPlay:LEVelS.....                           | 1529 |
| MEASurement<m>:DISPlay:RESults.....                          | 1530 |
| MEASurement<m>:DISPlay:STYLE.....                            | 1530 |
| MEASurement<m>:ENVSelect.....                                | 1494 |
| MEASurement<m>:EYEJitter:AUToscale.....                      | 1511 |
| MEASurement<m>:EYEJitter:LCHeck<n>:LOWer:LIMit.....          | 1511 |
| MEASurement<m>:EYEJitter:LCHeck<n>:LOWer:MARGIN.....         | 1512 |
| MEASurement<m>:EYEJitter:LCHeck<n>:UPPer:LIMit.....          | 1511 |
| MEASurement<m>:EYEJitter:LCHeck<n>:UPPer:MARGIN.....         | 1512 |

|                                                      |      |
|------------------------------------------------------|------|
| MEASurement<m>:EYEJitter:LCHeck<n>:VALid.....        | 1511 |
| MEASurement<m>:FSRC.....                             | 1483 |
| MEASurement<m>:GATE:ABSolute:STARt.....              | 1545 |
| MEASurement<m>:GATE:ABSolute:STOP.....               | 1545 |
| MEASurement<m>:GATE:CCOupling.....                   | 1546 |
| MEASurement<m>:GATE:CURSor.....                      | 1546 |
| MEASurement<m>:GATE:GCoupling.....                   | 1547 |
| MEASurement<m>:GATE:MODE.....                        | 1545 |
| MEASurement<m>:GATE:RELative:STARt.....              | 1545 |
| MEASurement<m>:GATE:RELative:STOP.....               | 1545 |
| MEASurement<m>:GATE:ZCOupling.....                   | 1546 |
| MEASurement<m>:GATE:ZDIagram.....                    | 1547 |
| MEASurement<m>:GATE[:STATe].....                     | 1544 |
| MEASurement<m>:HISTogram:LCHeck<n>:LOWer:LIMit.....  | 1528 |
| MEASurement<m>:HISTogram:LCHeck<n>:LOWer:MARGIn..... | 1529 |
| MEASurement<m>:HISTogram:LCHeck<n>:UPPer:LIMit.....  | 1528 |
| MEASurement<m>:HISTogram:LCHeck<n>:UPPer:MARGIn..... | 1529 |
| MEASurement<m>:HISTogram:LCHeck<n>:VALid.....        | 1528 |
| MEASurement<m>:HISTogram:PROBability:LIMit.....      | 1527 |
| MEASurement<m>:HISTogram:PROBability:TYPE.....       | 1527 |
| MEASurement<m>:HISTogram:SELEct.....                 | 1526 |
| MEASurement<m>:JITTer:CCSLope.....                   | 2473 |
| MEASurement<m>:JITTer:CDRMode.....                   | 2474 |
| MEASurement<m>:JITTer:DRUNit.....                    | 2476 |
| MEASurement<m>:JITTer:NCYCles.....                   | 2474 |
| MEASurement<m>:JITTer:PULSe.....                     | 2474 |
| MEASurement<m>:JITTer:SKWRelation.....               | 2476 |
| MEASurement<m>:JITTer:SKWSlope.....                  | 2476 |
| MEASurement<m>:JITTer:SOURce<n>:TIESlope.....        | 2475 |
| MEASurement<m>:LCHeck.....                           | 1547 |
| MEASurement<m>:LTMeas:COUNt.....                     | 1536 |
| MEASurement<m>:LTMeas:TIME.....                      | 1537 |
| MEASurement<m>:LTMeas[:STATe].....                   | 1536 |
| MEASurement<m>:MAIN.....                             | 1485 |
| MEASurement<m>:MNOMeas.....                          | 1532 |
| MEASurement<m>:MULTiple.....                         | 1532 |
| MEASurement<m>:ONViolation:ACQStop.....              | 1548 |
| MEASurement<m>:ONViolation:BEEP.....                 | 1548 |
| MEASurement<m>:ONViolation:REPort.....               | 1549 |
| MEASurement<m>:ONViolation:RUNexec.....              | 1549 |
| MEASurement<m>:ONViolation:TRIGgerout.....           | 1549 |
| MEASurement<m>:ONViolation:WFMSave.....              | 1549 |
| MEASurement<m>:PROTocol:F2FRame:FLDFrom.....         | 1538 |
| MEASurement<m>:PROTocol:F2FRame:FLDTo.....           | 1538 |
| MEASurement<m>:PROTocol:F2FRame:FRMFrom.....         | 1539 |
| MEASurement<m>:PROTocol:F2FRame:FRMTo.....           | 1539 |
| MEASurement<m>:PROTocol:F2FRame:VALFrom.....         | 1539 |
| MEASurement<m>:PROTocol:F2FRame:VALTo.....           | 1539 |
| MEASurement<m>:PROTocol:FLDValue:FLD.....            | 1540 |
| MEASurement<m>:PROTocol:FLDValue:FRM.....            | 1540 |

|                                                               |      |
|---------------------------------------------------------------|------|
| MEASurement<m>:PROTocol:FLDValue:TRCK.....                    | 1540 |
| MEASurement<m>:PROTocol:FLDValue:VAL.....                     | 1540 |
| MEASurement<m>:PROTocol:MBITrate:FLD.....                     | 1541 |
| MEASurement<m>:PROTocol:MBITrate:FRM.....                     | 1541 |
| MEASurement<m>:PROTocol:MBITrate:VAL.....                     | 1541 |
| MEASurement<m>:PROTocol:SBITrate:FLD.....                     | 1541 |
| MEASurement<m>:PROTocol:SBITrate:FRM.....                     | 1541 |
| MEASurement<m>:PROTocol:SBITrate:VAL.....                     | 1542 |
| MEASurement<m>:PROTocol:T2FFrame:DIRection.....               | 1542 |
| MEASurement<m>:PROTocol:T2FFrame:FLD.....                     | 1542 |
| MEASurement<m>:PROTocol:T2FFrame:FRM.....                     | 1542 |
| MEASurement<m>:PROTocol:T2FFrame:VALue.....                   | 1543 |
| MEASurement<m>:REFLevel:RESult:BINNer?.....                   | 1562 |
| MEASurement<m>:REFLevel:RESult:BOUter?.....                   | 1562 |
| MEASurement<m>:REFLevel:RESult:LOWer?.....                    | 1561 |
| MEASurement<m>:REFLevel:RESult:MIDDle?.....                   | 1561 |
| MEASurement<m>:REFLevel:RESult:SIGHigh?.....                  | 1561 |
| MEASurement<m>:REFLevel:RESult:SIGLow?.....                   | 1561 |
| MEASurement<m>:REFLevel:RESult:TINNer?.....                   | 1562 |
| MEASurement<m>:REFLevel:RESult:TOUTer?.....                   | 1563 |
| MEASurement<m>:REFLevel:RESult:UPPer?.....                    | 1561 |
| MEASurement<m>:RESult:AVG?.....                               | 1488 |
| MEASurement<m>:RESult:COUNT?.....                             | 1490 |
| MEASurement<m>:RESult:EVTCount?.....                          | 1488 |
| MEASurement<m>:RESult:INVerse.....                            | 1315 |
| MEASurement<m>:RESult:LABorder.....                           | 1315 |
| MEASurement<m>:RESult:MAXCount.....                           | 1516 |
| MEASurement<m>:RESult:NPEak?.....                             | 1488 |
| MEASurement<m>:RESult:PPEak?.....                             | 1488 |
| MEASurement<m>:RESult:RELIability?.....                       | 1488 |
| MEASurement<m>:RESult:RMS?.....                               | 1488 |
| MEASurement<m>:RESult:SHFRequency.....                        | 1517 |
| MEASurement<m>:RESult:SHLabels.....                           | 1517 |
| MEASurement<m>:RESult:START?.....                             | 1490 |
| MEASurement<m>:RESult:STDDev?.....                            | 1489 |
| MEASurement<m>:RESult:STOP?.....                              | 1490 |
| MEASurement<m>:RESult:WFMCount?.....                          | 1489 |
| MEASurement<m>:RESult[ACTual]?.....                           | 1488 |
| MEASurement<m>:SOURce.....                                    | 1482 |
| MEASurement<m>:SPECtrum:ARITHmetic:CONStant.....              | 1505 |
| MEASurement<m>:SPECtrum:ARITHmetic:COUNit.....                | 1506 |
| MEASurement<m>:SPECtrum:ARITHmetic:CUNState.....              | 1506 |
| MEASurement<m>:SPECtrum:ARITHmetic:CUUNit.....                | 1507 |
| MEASurement<m>:SPECtrum:ARITHmetic:CUUState.....              | 1507 |
| MEASurement<m>:SPECtrum:ARITHmetic:OPERator.....              | 1507 |
| MEASurement<m>:SPECtrum:ARITHmetic:PARAmeter<n>:AMPTime.....  | 1508 |
| MEASurement<m>:SPECtrum:ARITHmetic:PARAmeter<n>:GROup.....    | 1508 |
| MEASurement<m>:SPECtrum:ARITHmetic:PARAmeter<n>:SPECtrum..... | 1509 |
| MEASurement<m>:SPECtrum:ARITHmetic:PARAmeter<n>:TYPE.....     | 1509 |
| MEASurement<m>:SPECtrum:ATHReshold.....                       | 1515 |



|                                                     |      |
|-----------------------------------------------------|------|
| MEASurement<m>:SPECtrum:CPOWer:BANDwidth.....       | 1514 |
| MEASurement<m>:SPECtrum:CPOWer:CFRequency.....      | 1514 |
| MEASurement<m>:SPECtrum:LCHeck<n>:LOWer:LIMit.....  | 1518 |
| MEASurement<m>:SPECtrum:LCHeck<n>:LOWer:MARGin..... | 1519 |
| MEASurement<m>:SPECtrum:LCHeck<n>:UPPer:LIMit.....  | 1518 |
| MEASurement<m>:SPECtrum:LCHeck<n>:UPPer:MARGin..... | 1519 |
| MEASurement<m>:SPECtrum:LCHeck<n>:VALid.....        | 1518 |
| MEASurement<m>:SPECtrum:NDBDown.....                | 1515 |
| MEASurement<m>:SPECtrum:OBANdwidth.....             | 1514 |
| MEASurement<m>:SPECtrum:PEXCursion.....             | 1515 |
| MEASurement<m>:SPECtrum:RESult<n>:COUNT.....        | 1516 |
| MEASurement<m>:SPECtrum:RESult<n>:MODE.....         | 1516 |
| MEASurement<m>:SSRC.....                            | 1483 |
| MEASurement<m>:STATistics:HBINs.....                | 1533 |
| MEASurement<m>:STATistics:HISTogram.....            | 1532 |
| MEASurement<m>:STATistics:MODE.....                 | 1533 |
| MEASurement<m>:STATistics:RCOunt.....               | 1533 |
| MEASurement<m>:STATistics:RESet.....                | 1534 |
| MEASurement<m>:STATistics:RMEascount.....           | 1534 |
| MEASurement<m>:STATistics:RTIME.....                | 1534 |
| MEASurement<m>:STATistics[:ENABLE].....             | 1531 |
| MEASurement<m>:TRACk:DATA:HEADer?.....              | 1543 |
| MEASurement<m>:TRACk:DATA:HEADer?.....              | 1854 |
| MEASurement<m>:TRACk:DATA:STYPe?.....               | 1544 |
| MEASurement<m>:TRACk:DATA:STYPe?.....               | 1854 |
| MEASurement<m>:TRACk:DATA[:VALues]?.....            | 1544 |
| MEASurement<m>:TRACk:DATA[:VALues]?.....            | 1854 |
| MEASurement<m>:TRACk[:STATe].....                   | 1543 |
| MEASurement<m>:TRACk[:STATe].....                   | 1853 |
| MEASurement<m>:VERTical:AUTO.....                   | 1535 |
| MEASurement<m>:VERTical:CONT.....                   | 1535 |
| MEASurement<m>:VERTical:OFFSet.....                 | 1535 |
| MEASurement<m>:VERTical:SCALE.....                  | 1536 |
| MEASurement<m>[:ENABLE].....                        | 1481 |
| MMEMory:ATTRibute.....                              | 1643 |
| MMEMory:AUTonaming:DATE.....                        | 1322 |
| MMEMory:AUTonaming:DATE.....                        | 1646 |
| MMEMory:AUTonaming:DATE.....                        | 1666 |
| MMEMory:AUTonaming:DEFaultpath.....                 | 1323 |
| MMEMory:AUTonaming:DEFaultpath.....                 | 1647 |
| MMEMory:AUTonaming:DEFaultpath.....                 | 1666 |
| MMEMory:AUTonaming:INDex.....                       | 1322 |
| MMEMory:AUTonaming:INDex.....                       | 1646 |
| MMEMory:AUTonaming:INDex.....                       | 1666 |
| MMEMory:AUTonaming:PREFix.....                      | 1322 |
| MMEMory:AUTonaming:PREFix.....                      | 1646 |
| MMEMory:AUTonaming:PREFix.....                      | 1666 |
| MMEMory:AUTonaming:RESall.....                      | 1323 |
| MMEMory:AUTonaming:RESall.....                      | 1647 |
| MMEMory:AUTonaming:RESall.....                      | 1666 |

|                                      |      |
|--------------------------------------|------|
| MMEMory:AUTonaming:RESPath.....      | 1323 |
| MMEMory:AUTonaming:RESPath.....      | 1647 |
| MMEMory:AUTonaming:RESPath.....      | 1666 |
| MMEMory:AUTonaming:TEXT.....         | 1323 |
| MMEMory:AUTonaming:TEXT.....         | 1647 |
| MMEMory:AUTonaming:TEXT.....         | 1666 |
| MMEMory:AUTonaming:TIME.....         | 1322 |
| MMEMory:AUTonaming:TIME.....         | 1646 |
| MMEMory:AUTonaming:TIME.....         | 1666 |
| MMEMory:AUTonaming:USERtext.....     | 1322 |
| MMEMory:AUTonaming:USERtext.....     | 1646 |
| MMEMory:AUTonaming:USERtext.....     | 1666 |
| MMEMory:CATalog:LENGth?.....         | 1641 |
| MMEMory:CATalog?.....                | 1641 |
| MMEMory:CDIRectory.....              | 1640 |
| MMEMory:COPI.....                    | 1642 |
| MMEMory:DATA.....                    | 1643 |
| MMEMory:DCATalog:LENGth?.....        | 1639 |
| MMEMory:DCATalog?.....               | 1639 |
| MMEMory:DELeTe.....                  | 1642 |
| MMEMory:DRIVes?.....                 | 1639 |
| MMEMory:LOAD:STATe.....              | 1645 |
| MMEMory:MDIRectory.....              | 1640 |
| MMEMory:MOVE.....                    | 1642 |
| MMEMory:MSIS.....                    | 1639 |
| MMEMory:NAME.....                    | 1661 |
| MMEMory:RCL.....                     | 1644 |
| MMEMory:RDIRectory.....              | 1640 |
| MMEMory:SAV.....                     | 1644 |
| MMEMory:STORe:STATe.....             | 1644 |
| MTESt:ADD.....                       | 1580 |
| MTESt:CEMAsk.....                    | 1597 |
| MTESt:COLor:BORDer.....              | 1318 |
| MTESt:COLor:INTerior.....            | 1318 |
| MTESt:COLor:MATCH.....               | 1317 |
| MTESt:COLor:UNMatch.....             | 1317 |
| MTESt:CONDition.....                 | 1582 |
| MTESt:CTYPE.....                     | 1583 |
| MTESt:EYEMask:BOFFset.....           | 1599 |
| MTESt:EYEMask:HEIGHt<m>[:VALue]..... | 1598 |
| MTESt:EYEMask:HPERiod.....           | 1599 |
| MTESt:EYEMask:HPOSition.....         | 1600 |
| MTESt:EYEMask:MSKBottom.....         | 1599 |
| MTESt:EYEMask:MSKLeft.....           | 1598 |
| MTESt:EYEMask:MSKRight.....          | 1598 |
| MTESt:EYEMask:MSKTop.....            | 1599 |
| MTESt:EYEMask:TBSYmmetric.....       | 1600 |
| MTESt:EYEMask:TBWidth.....           | 1600 |
| MTESt:EYEMask:TOFFset.....           | 1599 |
| MTESt:EYEMask:TYPE.....              | 1597 |

|                                         |      |
|-----------------------------------------|------|
| MTESt:EYEMask:VPOStion.....             | 1600 |
| MTESt:EYEMask:WIDTh<m>[:VALue].....     | 1598 |
| MTESt:FILE:DELeTe.....                  | 1584 |
| MTESt:FILE:NAME.....                    | 1583 |
| MTESt:FILE:OPEN.....                    | 1584 |
| MTESt:FILE:SAVE.....                    | 1584 |
| MTESt:HIGHlight:INFinite.....           | 1316 |
| MTESt:HIGHlight:STATe.....              | 1317 |
| MTESt:HIGHlight:TIME.....               | 1317 |
| MTESt:LABel.....                        | 1316 |
| MTESt:ONViolation:BEEP.....             | 1592 |
| MTESt:ONViolation:REPort.....           | 1593 |
| MTESt:ONViolation:RUNExec.....          | 1594 |
| MTESt:ONViolation:SAVewaveform.....     | 1593 |
| MTESt:ONViolation:STOP.....             | 1593 |
| MTESt:ONViolation:TRIGgerout.....       | 1594 |
| MTESt:REFWfm.....                       | 1590 |
| MTESt:REMOve.....                       | 1581 |
| MTESt:REName.....                       | 1316 |
| MTESt:RESult:COUNT:FAILures?.....       | 1596 |
| MTESt:RESult:COUNT:FSLices?.....        | 2411 |
| MTESt:RESult:COUNT:FWAVEforms?.....     | 1596 |
| MTESt:RESult:COUNT:REMaining?.....      | 1595 |
| MTESt:RESult:COUNT:SLICes?.....         | 2411 |
| MTESt:RESult:COUNT:WAVEforms?.....      | 1595 |
| MTESt:RESult:FRATe?.....                | 1596 |
| MTESt:RESult:STATe?.....                | 1595 |
| MTESt:RESult:VIOLation<m>:COUNT?.....   | 2412 |
| MTESt:RESult:VIOLation<m>:START?.....   | 2412 |
| MTESt:RESult:VIOLation<m>:STOP?.....    | 2412 |
| MTESt:RESult:VIOLation<m>[:SLICe]?..... | 2412 |
| MTESt:RESult[:RESult]?.....             | 1595 |
| MTESt:RST.....                          | 1581 |
| MTESt:SBITnumber?.....                  | 2571 |
| MTESt:SEGment:ADD.....                  | 1585 |
| MTESt:SEGment:CLear.....                | 1586 |
| MTESt:SEGment:COUNT?.....               | 1585 |
| MTESt:SEGment:INSert.....               | 1585 |
| MTESt:SEGment:POINT:ADD.....            | 1587 |
| MTESt:SEGment:POINT:COUNT?.....         | 1587 |
| MTESt:SEGment:POINT:INSert.....         | 1587 |
| MTESt:SEGment:POINT:REMOve.....         | 1587 |
| MTESt:SEGment:POINT:X.....              | 1588 |
| MTESt:SEGment:POINT:Y.....              | 1588 |
| MTESt:SEGment:REGion.....               | 1586 |
| MTESt:SEGment:REMOve.....               | 1586 |
| MTESt:SEGment:RESCale:RECalculate.....  | 1588 |
| MTESt:SEGment:RESCale:XFACTOR.....      | 1589 |
| MTESt:SEGment:RESCale:XOFFset.....      | 1589 |
| MTESt:SEGment:RESCale:YFACTOR.....      | 1589 |

|                                                    |      |
|----------------------------------------------------|------|
| MTESt:SEGMeNt:RESCale:YOFFset.....                 | 1590 |
| MTESt:SEGMeNt:STATe.....                           | 1585 |
| MTESt:SOURce.....                                  | 1581 |
| MTESt:TOLerance.....                               | 1582 |
| MTESt:WFMLUpdate.....                              | 1591 |
| MTESt:WFMRescale:XWIDth.....                       | 1591 |
| MTESt:WFMRescale:YPOSition.....                    | 1592 |
| MTESt:WFMRescale:YSTRetCh.....                     | 1592 |
| MTESt:WFMRescale:YWIDth.....                       | 1591 |
| MTESt[:STATe].....                                 | 1581 |
| PGENerator:BITRate.....                            | 2449 |
| PGENerator:ENABle.....                             | 2449 |
| PGENerator:FILE:OPEN.....                          | 2450 |
| PGENerator:FILE[:NAME].....                        | 2450 |
| PGENerator:HLEVel.....                             | 2450 |
| PGENerator:PRESet.....                             | 2450 |
| PGENerator:RUNMode.....                            | 2450 |
| PGENerator:RUNSingle.....                          | 2450 |
| POWer:DESKew:CURRent.....                          | 2514 |
| POWer:DESKew:EXECute.....                          | 2514 |
| POWer:DESKew:RESet.....                            | 2514 |
| POWer:DESKew:TIME?.....                            | 2514 |
| POWer:DESKew:UDPReset.....                         | 2514 |
| POWer:DONRes:AUTO.....                             | 2529 |
| POWer:DONRes:AVG.....                              | 2529 |
| POWer:DONRes:EXECute.....                          | 2529 |
| POWer:DONRes:GATE<m>:START.....                    | 2529 |
| POWer:DONRes:GATE<m>:STOP.....                     | 2529 |
| POWer:DONRes:REPort:ADD.....                       | 2529 |
| POWer:DONRes:RESult:RESistance?.....               | 2529 |
| POWer:EFFiciency:AUTO.....                         | 2540 |
| POWer:EFFiciency:EXECute.....                      | 2540 |
| POWer:EFFiciency:REPort:ADD.....                   | 2540 |
| POWer:EFFiciency:RESult<m>:ACTual?.....            | 2540 |
| POWer:EFFiciency:RESult<m>:AVG?.....               | 2540 |
| POWer:EFFiciency:RESult<m>:EVTCout?.....           | 2540 |
| POWer:EFFiciency:RESult<m>:NPEak?.....             | 2540 |
| POWer:EFFiciency:RESult<m>:PPEak?.....             | 2540 |
| POWer:EFFiciency:RESult<m>:RMS?.....               | 2540 |
| POWer:EFFiciency:RESult<m>:STDDev?.....            | 2540 |
| POWer:EFFiciency:RESult<m>:WFMCout?.....           | 2540 |
| POWer:ENABle.....                                  | 2513 |
| POWer:HARMonics:AUTO.....                          | 2524 |
| POWer:HARMonics:DOFR.....                          | 2525 |
| POWer:HARMonics:ENFR.....                          | 2525 |
| POWer:HARMonics:EVAL.....                          | 2525 |
| POWer:HARMonics:EXECute.....                       | 2525 |
| POWer:HARMonics:MIFR.....                          | 2525 |
| POWer:HARMonics:REPort:ADD.....                    | 2525 |
| POWer:HARMonics:RESult<m>:FREQUency<n>:VALue?..... | 2526 |

|                                              |      |
|----------------------------------------------|------|
| POWer:HARMonics:RESult<m>:MAXValue<n>:VALue? | 2526 |
| POWer:HARMonics:RESult<m>:STDinuse?          | 2525 |
| POWer:HARMonics:RESult<m>:STDValue<n>:VALue? | 2526 |
| POWer:HARMonics:RESult<m>:VALue<n>:VALue?    | 2526 |
| POWer:HARMonics:STAN                         | 2526 |
| POWer:HARMonics:VOLT                         | 2526 |
| POWer:INRush:ADD                             | 2522 |
| POWer:INRush:COUNT?                          | 2523 |
| POWer:INRush:EXECute                         | 2523 |
| POWer:INRush:GATE<m>:START                   | 2523 |
| POWer:INRush:GATE<m>:STOP                    | 2523 |
| POWer:INRush:GATE<m>:VALue                   | 2523 |
| POWer:INRush:INSert                          | 2522 |
| POWer:INRush:MAXCurrent                      | 2524 |
| POWer:INRush:REMove                          | 2523 |
| POWer:INRush:REPort:ADD                      | 2524 |
| POWer:INRush:TRIGger                         | 2524 |
| POWer:MODulation:AUTO                        | 2527 |
| POWer:MODulation:DHISistogram                | 2527 |
| POWer:MODulation:EXECute                     | 2527 |
| POWer:MODulation:REPort:ADD                  | 2527 |
| POWer:MODulation:RESult:ACTual?              | 2528 |
| POWer:MODulation:RESult:AVG?                 | 2528 |
| POWer:MODulation:RESult:EVTCount?            | 2528 |
| POWer:MODulation:RESult:NPEak?               | 2528 |
| POWer:MODulation:RESult:PPEak?               | 2528 |
| POWer:MODulation:RESult:RMS?                 | 2528 |
| POWer:MODulation:RESult:STDDev?              | 2528 |
| POWer:MODulation:RESult:WFMCount?            | 2528 |
| POWer:MODulation:SOURce                      | 2528 |
| POWer:MODulation:TYPE                        | 2528 |
| POWer:ONOff:ATOff                            | 2535 |
| POWer:ONOff:ATON                             | 2535 |
| POWer:ONOff:DSOff                            | 2535 |
| POWer:ONOff:DSOn                             | 2535 |
| POWer:ONOff:DTOff                            | 2535 |
| POWer:ONOff:DTON                             | 2535 |
| POWer:ONOff:EXECute                          | 2535 |
| POWer:ONOff:INPut                            | 2536 |
| POWer:ONOff:REPort:ADD                       | 2536 |
| POWer:ONOff:RESult:TOFF?                     | 2536 |
| POWer:ONOff:RESult:TON?                      | 2536 |
| POWer:ONOff:TIME                             | 2536 |
| POWer:ONOff:TYPE                             | 2536 |
| POWer:QUALity:AUTO                           | 2521 |
| POWer:QUALity:EXECute                        | 2521 |
| POWer:QUALity:FCUS                           | 2521 |
| POWer:QUALity:FREQ                           | 2521 |
| POWer:QUALity:REPort:ADD                     | 2521 |
| POWer:QUALity:RESult:CURRent:CREStfactor?    | 2521 |

|                                           |      |
|-------------------------------------------|------|
| POWer:QUALity:RESult:CURRent:FREQuency?   | 2521 |
| POWer:QUALity:RESult:CURRent:PEAK?        | 2521 |
| POWer:QUALity:RESult:CURRent:RMS?         | 2521 |
| POWer:QUALity:RESult:POWer:APParent?      | 2522 |
| POWer:QUALity:RESult:POWer:PFACtor?       | 2522 |
| POWer:QUALity:RESult:POWer:PHASe?         | 2522 |
| POWer:QUALity:RESult:POWer:REACTive?      | 2522 |
| POWer:QUALity:RESult:POWer:REALpower?     | 2522 |
| POWer:QUALity:RESult:VOLTage:CREStfactor? | 2522 |
| POWer:QUALity:RESult:VOLTage:FREQuency?   | 2522 |
| POWer:QUALity:RESult:VOLTage:PEAK?        | 2522 |
| POWer:QUALity:RESult:VOLTage:RMS?         | 2522 |
| POWer:REPort:CONTent:HSETup               | 2515 |
| POWer:REPort:CONTent:MSETup               | 2515 |
| POWer:REPort:CONTent:MSIGnal              | 2515 |
| POWer:REPort:CONTent:RESU                 | 2515 |
| POWer:REPort:CONTent:SETTings             | 2515 |
| POWer:REPort:CONTent:TITLe                | 2516 |
| POWer:REPort:CONTent:TSETup               | 2516 |
| POWer:REPort:CONTent:VSETup               | 2516 |
| POWer:REPort:DESCRiption                  | 2516 |
| POWer:REPort:DUT                          | 2516 |
| POWer:REPort:FILE:DELeTe                  | 2517 |
| POWer:REPort:FILE:NAME                    | 2517 |
| POWer:REPort:FILE:NEW                     | 2517 |
| POWer:REPort:FILE:SAVE                    | 2517 |
| POWer:REPort:FONT:COLO                    | 2516 |
| POWer:REPort:FONT:FAMI                    | 2516 |
| POWer:REPort:FONT:SIZE                    | 2516 |
| POWer:REPort:INVert                       | 2518 |
| POWer:REPort:LOGO                         | 2517 |
| POWer:REPort:PAPerSize                    | 2517 |
| POWer:REPort:SITe                         | 2516 |
| POWer:REPort:TEMPerature                  | 2516 |
| POWer:REPort:TEST:ADD                     | 2518 |
| POWer:REPort:TEST:COMMeNt                 | 2520 |
| POWer:REPort:TEST:COUNt                   | 2520 |
| POWer:REPort:TEST:DIRectory               | 2519 |
| POWer:REPort:TEST:DSEA                    | 2518 |
| POWer:REPort:TEST:INSert                  | 2518 |
| POWer:REPort:TEST:ISE                     | 2518 |
| POWer:REPort:TEST:LSEnd?                  | 2520 |
| POWer:REPort:TEST:REMOve                  | 2518 |
| POWer:REPort:TEST:RSE                     | 2519 |
| POWer:REPort:TEST:SEA                     | 2519 |
| POWer:REPort:USER                         | 2516 |
| POWer:RIPple:AUToscale                    | 2542 |
| POWer:RIPple:CURREnt                      | 2542 |
| POWer:RIPple:EXECute                      | 2543 |
| POWer:RIPple:FREQuency                    | 2543 |

|                                              |      |
|----------------------------------------------|------|
| POWer:RIPPlE:REPort:ADD.....                 | 2543 |
| POWer:RIPPlE:RESult:FREQuency:AVG?.....      | 2543 |
| POWer:RIPPlE:RESult:FREQuency:EVTCount?..... | 2543 |
| POWer:RIPPlE:RESult:FREQuency:NPEak?.....    | 2543 |
| POWer:RIPPlE:RESult:FREQuency:PPEak?.....    | 2543 |
| POWer:RIPPlE:RESult:FREQuency:RMS?.....      | 2543 |
| POWer:RIPPlE:RESult:FREQuency:STDDev?.....   | 2543 |
| POWer:RIPPlE:RESult:FREQuency:WFMCount?..... | 2543 |
| POWer:RIPPlE:RESult:FREQuency[:ACTual]?..... | 2543 |
| POWer:RIPPlE:RESult:MAXimum:AVG?.....        | 2544 |
| POWer:RIPPlE:RESult:MAXimum:EVTCount?.....   | 2544 |
| POWer:RIPPlE:RESult:MAXimum:NPEak?.....      | 2544 |
| POWer:RIPPlE:RESult:MAXimum:PPEak?.....      | 2544 |
| POWer:RIPPlE:RESult:MAXimum:RMS?.....        | 2544 |
| POWer:RIPPlE:RESult:MAXimum:STDDev?.....     | 2544 |
| POWer:RIPPlE:RESult:MAXimum:WFMCount?.....   | 2544 |
| POWer:RIPPlE:RESult:MAXimum[:ACTual]?.....   | 2544 |
| POWer:RIPPlE:RESult:MINimum:AVG?.....        | 2544 |
| POWer:RIPPlE:RESult:MINimum:EVTCount?.....   | 2544 |
| POWer:RIPPlE:RESult:MINimum:NPEak?.....      | 2544 |
| POWer:RIPPlE:RESult:MINimum:PPEak?.....      | 2544 |
| POWer:RIPPlE:RESult:MINimum:RMS?.....        | 2544 |
| POWer:RIPPlE:RESult:MINimum:STDDev?.....     | 2544 |
| POWer:RIPPlE:RESult:MINimum:WFMCount?.....   | 2544 |
| POWer:RIPPlE:RESult:MINimum[:ACTual]?.....   | 2544 |
| POWer:RIPPlE:RESult:NDCYcle:AVG?.....        | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:EVTCount?.....   | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:NPEak?.....      | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:PPEak?.....      | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:RMS?.....        | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:STDDev?.....     | 2545 |
| POWer:RIPPlE:RESult:NDCYcle:WFMCount?.....   | 2545 |
| POWer:RIPPlE:RESult:NDCYcle[:ACTual]?.....   | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:AVG?.....        | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:EVTCount?.....   | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:NPEak?.....      | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:PPEak?.....      | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:RMS?.....        | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:STDDev?.....     | 2545 |
| POWer:RIPPlE:RESult:PDCYcle:WFMCount?.....   | 2545 |
| POWer:RIPPlE:RESult:PDCYcle[:ACTual]?.....   | 2545 |
| POWer:RIPPlE:RESult:PDEL:AVG?.....           | 2546 |
| POWer:RIPPlE:RESult:PDEL:EVTCount?.....      | 2546 |
| POWer:RIPPlE:RESult:PDEL:NPEak?.....         | 2546 |
| POWer:RIPPlE:RESult:PDEL:PPEak?.....         | 2546 |
| POWer:RIPPlE:RESult:PDEL:RMS?.....           | 2546 |
| POWer:RIPPlE:RESult:PDEL:STDDev?.....        | 2546 |
| POWer:RIPPlE:RESult:PDEL:WFMCount?.....      | 2546 |
| POWer:RIPPlE:RESult:PDEL[:ACTual]?.....      | 2546 |
| POWer:RIPPlE:RESult:PERiod:AVG?.....         | 2546 |

|                                             |      |
|---------------------------------------------|------|
| POWer:RIPPlE:RESult:PERiod:EVTCount?.....   | 2546 |
| POWer:RIPPlE:RESult:PERiod:NPEak?.....      | 2546 |
| POWer:RIPPlE:RESult:PERiod:PPEak?.....      | 2546 |
| POWer:RIPPlE:RESult:PERiod:RMS?.....        | 2547 |
| POWer:RIPPlE:RESult:PERiod:STDDev?.....     | 2547 |
| POWer:RIPPlE:RESult:PERiod:WFMCount?.....   | 2547 |
| POWer:RIPPlE:RESult:PERiod[:ACTual]?.....   | 2546 |
| POWer:RIPPlE:RESult:STDDev:AVG?.....        | 2547 |
| POWer:RIPPlE:RESult:STDDev:EVTCount?.....   | 2547 |
| POWer:RIPPlE:RESult:STDDev:NPEak?.....      | 2547 |
| POWer:RIPPlE:RESult:STDDev:PPEak?.....      | 2547 |
| POWer:RIPPlE:RESult:STDDev:RMS?.....        | 2547 |
| POWer:RIPPlE:RESult:STDDev:STDDev?.....     | 2547 |
| POWer:RIPPlE:RESult:STDDev:WFMCount?.....   | 2547 |
| POWer:RIPPlE:RESult:STDDev[:ACTual]?.....   | 2547 |
| POWer:SLEWrate:AUTO.....                    | 2530 |
| POWer:SLEWrate:AVGDeriv.....                | 2530 |
| POWer:SLEWrate:EXECute.....                 | 2530 |
| POWer:SLEWrate:GATE:START.....              | 2531 |
| POWer:SLEWrate:GATE:STOP.....               | 2531 |
| POWer:SLEWrate:REPort:ADD.....              | 2532 |
| POWer:SLEWrate:RESult:ACTual?.....          | 2532 |
| POWer:SLEWrate:RESult:AVG?.....             | 2532 |
| POWer:SLEWrate:RESult:EVTCount?.....        | 2532 |
| POWer:SLEWrate:RESult:NPEak?.....           | 2532 |
| POWer:SLEWrate:RESult:PPEak?.....           | 2532 |
| POWer:SLEWrate:RESult:RMS?.....             | 2532 |
| POWer:SLEWrate:RESult:STDDev?.....          | 2532 |
| POWer:SLEWrate:RESult:WFMCount?.....        | 2532 |
| POWer:SLEWrate:SOURce.....                  | 2530 |
| POWer:SOA:EXECute.....                      | 2533 |
| POWer:SOA:LINear:ADD.....                   | 2533 |
| POWer:SOA:LINear:COUNt?.....                | 2533 |
| POWer:SOA:LINear:INSert.....                | 2533 |
| POWer:SOA:LINear:POINt<m>:CURRent.....      | 2533 |
| POWer:SOA:LINear:POINt<m>:VOLTage.....      | 2534 |
| POWer:SOA:LINear:REMove.....                | 2533 |
| POWer:SOA:LOGarithmic:ADD.....              | 2533 |
| POWer:SOA:LOGarithmic:COUNt?.....           | 2533 |
| POWer:SOA:LOGarithmic:INSert.....           | 2533 |
| POWer:SOA:LOGarithmic:POINt<m>:CURRent..... | 2533 |
| POWer:SOA:LOGarithmic:POINt<m>:VOLTage..... | 2534 |
| POWer:SOA:LOGarithmic:REMove.....           | 2533 |
| POWer:SOA:MASK.....                         | 2534 |
| POWer:SOA:REPort:ADD.....                   | 2534 |
| POWer:SOA:SCALE.....                        | 2534 |
| POWer:SOA:SWITCh.....                       | 2534 |
| POWer:SOURce:CURRent<1..2>.....             | 2513 |
| POWer:SOURce:VOLTage<1..4>.....             | 2513 |
| POWer:SPECtrum:AUToscale.....               | 2550 |



|                                              |      |
|----------------------------------------------|------|
| POWer:SPECtrum:EXECute.....                  | 2551 |
| POWer:SPECtrum:FREQuency.....                | 2551 |
| POWer:SPECtrum:RCout?.....                   | 2551 |
| POWer:SPECtrum:REPort:ADD.....               | 2551 |
| POWer:SPECtrum:RESult<m>:FREQuency?.....     | 2551 |
| POWer:SPECtrum:RESult<m>:LEVel?.....         | 2551 |
| POWer:SWITching:AUTO.....                    | 2537 |
| POWer:SWITching:COND.....                    | 2538 |
| POWer:SWITching:EXECute.....                 | 2537 |
| POWer:SWITching:GATE:COND:START.....         | 2538 |
| POWer:SWITching:GATE:COND:STOP.....          | 2538 |
| POWer:SWITching:GATE:NCON:START.....         | 2538 |
| POWer:SWITching:GATE:TOFF:START.....         | 2538 |
| POWer:SWITching:GATE:TOFF:STOP.....          | 2538 |
| POWer:SWITching:GATE:TON:START.....          | 2538 |
| POWer:SWITching:GATE:TON:STOP.....           | 2538 |
| POWer:SWITching:NCON.....                    | 2538 |
| POWer:SWITching:REPort:ADD.....              | 2538 |
| POWer:SWITching:RESult:ENERgy:ACTual?.....   | 2539 |
| POWer:SWITching:RESult:ENERgy:AVG?.....      | 2539 |
| POWer:SWITching:RESult:ENERgy:EVTCount?..... | 2539 |
| POWer:SWITching:RESult:ENERgy:NPEak?.....    | 2539 |
| POWer:SWITching:RESult:ENERgy:PPEak?.....    | 2539 |
| POWer:SWITching:RESult:ENERgy:RMS?.....      | 2539 |
| POWer:SWITching:RESult:ENERgy:STDDev?.....   | 2539 |
| POWer:SWITching:RESult:ENERgy:WFMCount?..... | 2539 |
| POWer:SWITching:RESult:POWer:ACTual?.....    | 2539 |
| POWer:SWITching:RESult:POWer:AVG?.....       | 2539 |
| POWer:SWITching:RESult:POWer:EVTCount?.....  | 2539 |
| POWer:SWITching:RESult:POWer:NPEak?.....     | 2539 |
| POWer:SWITching:RESult:POWer:PPEak?.....     | 2539 |
| POWer:SWITching:RESult:POWer:RMS?.....       | 2539 |
| POWer:SWITching:RESult:POWer:STDDev?.....    | 2539 |
| POWer:SWITching:RESult:POWer:WFMCount?.....  | 2539 |
| POWer:SWITching:SWIFrequency.....            | 2538 |
| POWer:SWITching:SWIT.....                    | 2538 |
| POWer:SWITching:TOFF.....                    | 2538 |
| POWer:SWITching:TON.....                     | 2538 |
| POWer:SWITching:TOTal.....                   | 2538 |
| POWer:TRANsient:AUToscale.....               | 2548 |
| POWer:TRANsient:EXECute.....                 | 2548 |
| POWer:TRANsient:FREQuency.....               | 2548 |
| POWer:TRANsient:HYSteresis.....              | 2548 |
| POWer:TRANsient:INPut.....                   | 2549 |
| POWer:TRANsient:REPort:ADD.....              | 2549 |
| POWer:TRANsient:RESult[:ACTual]?.....        | 2549 |
| POWer:TRANsient:SIGHigh.....                 | 2549 |
| POWer:TRANsient:SIGLow.....                  | 2549 |
| POWer:TRANsient:TRGChannel.....              | 2550 |
| POWer:TRANsient:TRGLevel.....                | 2550 |

|                                                      |      |
|------------------------------------------------------|------|
| POWer:TRANsient:TRGSlope.....                        | 2550 |
| PROBe<m>:DEEMbedding:BANDwidth.....                  | 1361 |
| PROBe<m>:DEEMbedding:BANDwidth.....                  | 2560 |
| PROBe<m>:DEEMbedding:LOAD:IMPedance?.....            | 1362 |
| PROBe<m>:DEEMbedding:MODE.....                       | 1362 |
| PROBe<m>:DEEMbedding:PMODE.....                      | 1360 |
| PROBe<m>:DEEMbedding:REMPobeload.....                | 1362 |
| PROBe<m>:DEEMbedding:TIPModule:CSPFile.....          | 1360 |
| PROBe<m>:DEEMbedding:TIPModule:ZMA<n>:SUBModule..... | 1361 |
| PROBe<m>:DEEMbedding:TIPModule:ZMA<n>:SUBModule..... | 2559 |
| PROBe<m>:DEEMbedding:TIPModule[:SElect].....         | 1360 |
| PROBe<m>:DEEMbedding:TIPModule[:SElect].....         | 2559 |
| PROBe<m>:ID:PARTnumber?.....                         | 1365 |
| PROBe<m>:ID:PRDate?.....                             | 1365 |
| PROBe<m>:ID:SRNumber?.....                           | 1366 |
| PROBe<m>:ID:SWVersion?.....                          | 1365 |
| PROBe<m>:PMETer:RESults:COMMon?.....                 | 1351 |
| PROBe<m>:PMETer:RESults:DIFFerential?.....           | 1351 |
| PROBe<m>:PMETer:RESults:NEGative?.....               | 1351 |
| PROBe<m>:PMETer:RESults:POSitive?.....               | 1352 |
| PROBe<m>:PMETer:RESults:SINGle?.....                 | 1350 |
| PROBe<m>:PMETer:VISibility.....                      | 1350 |
| PROBe<m>:SETup:ACCoupling.....                       | 1354 |
| PROBe<m>:SETup:ADAPter?.....                         | 1367 |
| PROBe<m>:SETup:ADVanced:AUDioverload.....            | 1356 |
| PROBe<m>:SETup:ADVanced:FILTer.....                  | 1355 |
| PROBe<m>:SETup:ADVanced:PMTOffset.....               | 1355 |
| PROBe<m>:SETup:ADVanced:RANGe.....                   | 1355 |
| PROBe<m>:SETup:ATTenuation:DEFProbe.....             | 1363 |
| PROBe<m>:SETup:ATTenuation:MANual.....               | 1353 |
| PROBe<m>:SETup:ATTenuation:MODE.....                 | 1352 |
| PROBe<m>:SETup:ATTenuation:TDEFprobe.....            | 1367 |
| PROBe<m>:SETup:ATTenuation:UNIT.....                 | 1353 |
| PROBe<m>:SETup:ATTenuation[:AUTO]?.....              | 1347 |
| PROBe<m>:SETup:BANDwidth?.....                       | 1347 |
| PROBe<m>:SETup:CAPacitance?.....                     | 1366 |
| PROBe<m>:SETup:CMOffset.....                         | 1354 |
| PROBe<m>:SETup:CMOffset.....                         | 1357 |
| PROBe<m>:SETup:DEGauss.....                          | 1364 |
| PROBe<m>:SETup:DISPlaydiff.....                      | 1350 |
| PROBe<m>:SETup:DMOffset.....                         | 1357 |
| PROBe<m>:SETup:GAIN:MANual.....                      | 1353 |
| PROBe<m>:SETup:IMPedance?.....                       | 1366 |
| PROBe<m>:SETup:MODE.....                             | 1349 |
| PROBe<m>:SETup:NAME?.....                            | 1346 |
| PROBe<m>:SETup:NOFFset.....                          | 1357 |
| PROBe<m>:SETup:OFFSet:AZERo.....                     | 1347 |
| PROBe<m>:SETup:OFFSet:STPProbe.....                  | 1364 |
| PROBe<m>:SETup:OFFSet:TOMean.....                    | 1364 |
| PROBe<m>:SETup:OFFSet:USEautozero.....               | 1347 |

|                                              |      |
|----------------------------------------------|------|
| PROBe<m>:SETup:OFFSet:ZADJust.....           | 1364 |
| PROBe<m>:SETup:POFFset.....                  | 1358 |
| PROBe<m>:SETup:PRMode.....                   | 1356 |
| PROBe<m>:SETup:STATe?.....                   | 1346 |
| PROBe<m>:SETup:TERM:ADJust.....              | 1359 |
| PROBe<m>:SETup:TERM:MEASure?.....            | 1359 |
| PROBe<m>:SETup:TERM:MODE.....                | 1358 |
| PROBe<m>:SETup:TERM:STATe.....               | 1358 |
| PROBe<m>:SETup:TYPE?.....                    | 1346 |
| PROBe<m>:SETup:ZAXV.....                     | 1354 |
| PROBe<m>:SKEState.....                       | 1387 |
| PSRC:CLOCKmode.....                          | 2458 |
| PSRC:DUTYcycle.....                          | 2458 |
| PSRC:OUTPutlow.....                          | 2457 |
| PSRC:REPRate.....                            | 2458 |
| PSRC:RST.....                                | 2458 |
| PSRC[:STAT].....                             | 2457 |
| QACTion:EXECute.....                         | 1321 |
| QACTion:MODE.....                            | 1321 |
| QACTion:PARAmeters.....                      | 1322 |
| QACTion:PATH.....                            | 1321 |
| QACTion:WDIRectory.....                      | 1322 |
| REFCurve<m>:CLEar.....                       | 1450 |
| REFCurve<m>:DATA:HEADer?.....                | 1455 |
| REFCurve<m>:DATA:STYPe?.....                 | 1455 |
| REFCurve<m>:DATA[:VALues]?.....              | 1456 |
| REFCurve<m>:DELeTe.....                      | 1450 |
| REFCurve<m>:HMODE.....                       | 1453 |
| REFCurve<m>:MULTichannel:IMPort.....         | 1457 |
| REFCurve<m>:MULTichannel:NAME.....           | 1456 |
| REFCurve<m>:MULTichannel:OPEN.....           | 1457 |
| REFCurve<m>:NAME.....                        | 1449 |
| REFCurve<m>:OPEN.....                        | 1449 |
| REFCurve<m>:POSition.....                    | 1452 |
| REFCurve<m>:RESCale:HORizontal:FACTor.....   | 1454 |
| REFCurve<m>:RESCale:HORizontal:OFFSet.....   | 1454 |
| REFCurve<m>:RESCale:HORizontal:POSition..... | 1455 |
| REFCurve<m>:RESCale:HORizontal:STATe.....    | 1454 |
| REFCurve<m>:RESCale:VERTical:FACTor.....     | 1452 |
| REFCurve<m>:RESCale:VERTical:OFFSet.....     | 1453 |
| REFCurve<m>:RESCale:VERTical:STATe.....      | 1452 |
| REFCurve<m>:RESTore.....                     | 1451 |
| REFCurve<m>:SAVE.....                        | 1450 |
| REFCurve<m>:SCALE.....                       | 1451 |
| REFCurve<m>:SOURce.....                      | 1448 |
| REFCurve<m>:STATe.....                       | 1449 |
| REFCurve<m>:TOORignal.....                   | 1452 |
| REFCurve<m>:UPDate.....                      | 1450 |
| REFCurve<m>:VMODE.....                       | 1451 |
| REFLevel<m>:ABSolute:BDIStance.....          | 1556 |

|                                      |      |
|--------------------------------------|------|
| REFLevel<m>:ABSolute:BITube.....     | 1560 |
| REFLevel<m>:ABSolute:BOTube.....     | 1561 |
| REFLevel<m>:ABSolute:HIGH.....       | 1554 |
| REFLevel<m>:ABSolute:LLEVel.....     | 1557 |
| REFLevel<m>:ABSolute:LOW.....        | 1555 |
| REFLevel<m>:ABSolute:MLEVel.....     | 1556 |
| REFLevel<m>:ABSolute:TDIStance.....  | 1555 |
| REFLevel<m>:ABSolute:TITube.....     | 1560 |
| REFLevel<m>:ABSolute:TOTube.....     | 1560 |
| REFLevel<m>:ABSolute:ULEVel.....     | 1556 |
| REFLevel<m>:AUTO:COUNT.....          | 1554 |
| REFLevel<m>:AUTO:MODE.....           | 1552 |
| REFLevel<m>:AUTO[:STATe].....        | 1553 |
| REFLevel<m>:LDETection.....          | 1550 |
| REFLevel<m>:LMODe.....               | 1551 |
| REFLevel<m>:RELative:HYSTeresis..... | 1559 |
| REFLevel<m>:RELative:ITUBe.....      | 1559 |
| REFLevel<m>:RELative:LOWer.....      | 1558 |
| REFLevel<m>:RELative:MIDDLE.....     | 1558 |
| REFLevel<m>:RELative:MODE.....       | 1551 |
| REFLevel<m>:RELative:OTUBe.....      | 1559 |
| REFLevel<m>:RELative:UPPer.....      | 1557 |
| REFLevel<m>:USRLevel.....            | 1552 |
| REPort:COMMeNt.....                  | 1665 |
| REPort:FILE:NAME.....                | 1665 |
| REPort:FILE:SAVE.....                | 1665 |
| REPort:LANGUage.....                 | 1664 |
| REPort:LOGO.....                     | 1664 |
| REPort:LOGType.....                  | 1664 |
| REPort:PAPerSize.....                | 1664 |
| REPort:USER.....                     | 1665 |
| RUN.....                             | 1326 |
| RUNContinous.....                    | 1326 |
| RUNSingle.....                       | 1326 |
| SAVeSet:CONFig:PREView.....          | 1645 |
| SAVeSet:ONEFile:NAME.....            | 1646 |
| SAVeSet:ONEFile:OPEN.....            | 1646 |
| SAVeSet:ONEFile:SAVE.....            | 1646 |
| SEARCh:ADD.....                      | 1602 |
| SEARCh:ALL.....                      | 1603 |
| SEARCh:CLear.....                    | 1602 |
| SEARCh:GATE:ABSolute:STARt.....      | 1630 |
| SEARCh:GATE:ABSolute:STOP.....       | 1630 |
| SEARCh:GATE:MODE.....                | 1629 |
| SEARCh:GATE:RELative:STARt.....      | 1630 |
| SEARCh:GATE:RELative:STOP.....       | 1631 |
| SEARCh:GATE:SHOW.....                | 1630 |
| SEARCh:GATE:ZCOupling.....           | 1631 |
| SEARCh:GATE:ZDIagram.....            | 1631 |
| SEARCh:GATE[:STATe].....             | 1629 |

|                                                   |      |
|---------------------------------------------------|------|
| SEARCh:ONLine.....                                | 1603 |
| SEARCh:REMove.....                                | 1602 |
| SEARCh:RESDiagram:HORIZ:ABSolute:POSition.....    | 1632 |
| SEARCh:RESDiagram:HORIZ:ABSolute:SPAN.....        | 1633 |
| SEARCh:RESDiagram:HORIZ:MODE.....                 | 1633 |
| SEARCh:RESDiagram:HORIZ:RELative:POSition.....    | 1633 |
| SEARCh:RESDiagram:HORIZ:RELative:SPAN.....        | 1633 |
| SEARCh:RESDiagram:SHOW.....                       | 1634 |
| SEARCh:RESDiagram:VERT:ABSolute:POSition.....     | 1634 |
| SEARCh:RESDiagram:VERT:ABSolute:SPAN.....         | 1634 |
| SEARCh:RESDiagram:VERT:MODE.....                  | 1635 |
| SEARCh:RESDiagram:VERT:RELative:POSition.....     | 1635 |
| SEARCh:RESDiagram:VERT:RELative:SPAN.....         | 1635 |
| SEARCh:RESult:ARINc:WCOunt?.....                  | 1895 |
| SEARCh:RESult:ARINc:WORD<m>:DATA?.....            | 1894 |
| SEARCh:RESult:ARINc:WORD<m>:LABel?.....           | 1894 |
| SEARCh:RESult:ARINc:WORD<m>:PATtern?.....         | 1894 |
| SEARCh:RESult:ARINc:WORD<m>:SDI?.....             | 1895 |
| SEARCh:RESult:ARINc:WORD<m>:SSM?.....             | 1894 |
| SEARCh:RESult:ARINc:WORD<m>:STARt?.....           | 1896 |
| SEARCh:RESult:ARINc:WORD<m>:STATe?.....           | 1896 |
| SEARCh:RESult:ARINc:WORD<m>:STOP?.....            | 1895 |
| SEARCh:RESult:ARINc:WORD<m>:SYMBol?.....          | 1895 |
| SEARCh:RESult:CAN:FCOunt?.....                    | 1767 |
| SEARCh:RESult:CAN:FDATa:FRAMe<m>:SCValue?.....    | 1771 |
| SEARCh:RESult:CAN:FDATa:FRAMe<m>:STANdard?.....   | 1771 |
| SEARCh:RESult:CAN:FRAMe<m>:ACKState?.....         | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:ACKValue?.....         | 1767 |
| SEARCh:RESult:CAN:FRAMe<m>:BSEPosition?.....      | 1768 |
| SEARCh:RESult:CAN:FRAMe<m>:BYTE<n>:STATe?.....    | 1768 |
| SEARCh:RESult:CAN:FRAMe<m>:BYTE<n>:VALue?.....    | 1768 |
| SEARCh:RESult:CAN:FRAMe<m>:CSState?.....          | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:CSValue?.....          | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:DATA?.....             | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:DLCState?.....         | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:DLCValue?.....         | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:FERCause?.....         | 1770 |
| SEARCh:RESult:CAN:FRAMe<m>:IDState?.....          | 1769 |
| SEARCh:RESult:CAN:FRAMe<m>:IDTYpe?.....           | 1770 |
| SEARCh:RESult:CAN:FRAMe<m>:IDValue?.....          | 1770 |
| SEARCh:RESult:CAN:FRAMe<m>:NDBYtes?.....          | 1763 |
| SEARCh:RESult:CAN:FRAMe<m>:SDATa?.....            | 1775 |
| SEARCh:RESult:CAN:FRAMe<m>:STARt?.....            | 1771 |
| SEARCh:RESult:CAN:FRAMe<m>:STATus?.....           | 1771 |
| SEARCh:RESult:CAN:FRAMe<m>:STOP?.....             | 1772 |
| SEARCh:RESult:CAN:FRAMe<m>:SYMBol?.....           | 1772 |
| SEARCh:RESult:CAN:FRAMe<m>:TYPE?.....             | 1772 |
| SEARCh:RESult:CMSB<m>:FCOunt?.....                | 2168 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CCOunt?.....       | 2168 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CELL<o>:NAME?..... | 2169 |

|                                               |      |
|-----------------------------------------------|------|
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CELL<o>:START? | 2169 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CELL<o>:STATe? | 2170 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CELL<o>:STOP?  | 2170 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CELL<o>:VALue? | 2171 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CONE?          | 2171 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CTHRee?        | 2171 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:CTWO?          | 2172 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:START?         | 2172 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:STATe?         | 2172 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:STOP?          | 2173 |
| SEARCh:RESult:CMSB<m>:FRAMe<n>:TYPE?          | 2173 |
| SEARCh:RESult:CXPI:FCOunt?                    | 2382 |
| SEARCh:RESult:CXPI:FRAMe<m>:DATA?             | 2382 |
| SEARCh:RESult:CXPI:FRAMe<m>:DLCV?             | 2383 |
| SEARCh:RESult:CXPI:FRAMe<m>:START?            | 2383 |
| SEARCh:RESult:CXPI:FRAMe<m>:STATe?            | 2383 |
| SEARCh:RESult:CXPI:FRAMe<m>:STOP?             | 2383 |
| SEARCh:RESult:CXPI:FRAMe<m>:TYPE?             | 2384 |
| SEARCh:RESult:CXPI:FRAMe<m>:WORD<n>:STATus?   | 2384 |
| SEARCh:RESult:CXPI:FRAMe<m>:WORD<n>:TYPE?     | 2384 |
| SEARCh:RESult:CXPI:FRAMe<m>:WORD<n>:VALue?    | 2385 |
| SEARCh:RESult:DDR:FCOunt?                     | 2397 |
| SEARCh:RESult:DDR:FRAMe<m>:FLD<n>:FVAL?       | 2397 |
| SEARCh:RESult:DDR:FRAMe<m>:FLD<n>:START?      | 2397 |
| SEARCh:RESult:DDR:FRAMe<m>:FLD<n>:STATus?     | 2398 |
| SEARCh:RESult:DDR:FRAMe<m>:FLD<n>:STOP?       | 2398 |
| SEARCh:RESult:DDR:FRAMe<m>:FLD<n>:VAL?        | 2398 |
| SEARCh:RESult:DDR:FRAMe<m>:NWRDs?             | 2399 |
| SEARCh:RESult:DDR:FRAMe<m>:START?             | 2399 |
| SEARCh:RESult:DDR:FRAMe<m>:STATe?             | 2400 |
| SEARCh:RESult:DDR:FRAMe<m>:STOP?              | 2400 |
| SEARCh:RESult:DDR:FRAMe<m>:TYPE?              | 2400 |
| SEARCh:RESult:DPHY:FCOunt?                    | 2069 |
| SEARCh:RESult:DPHY:FRAMe<m>:CS?               | 2069 |
| SEARCh:RESult:DPHY:FRAMe<m>:DATA?             | 2070 |
| SEARCh:RESult:DPHY:FRAMe<m>:DTName?           | 2070 |
| SEARCh:RESult:DPHY:FRAMe<m>:DTYPe?            | 2070 |
| SEARCh:RESult:DPHY:FRAMe<m>:ECC?              | 2071 |
| SEARCh:RESult:DPHY:FRAMe<m>:PACKet<n>:IDX?    | 2071 |
| SEARCh:RESult:DPHY:FRAMe<m>:PACKet<n>:VALue?  | 2071 |
| SEARCh:RESult:DPHY:FRAMe<m>:START?            | 2072 |
| SEARCh:RESult:DPHY:FRAMe<m>:STATe?            | 2072 |
| SEARCh:RESult:DPHY:FRAMe<m>:STOP?             | 2072 |
| SEARCh:RESult:DPHY:FRAMe<m>:TYPE?             | 2073 |
| SEARCh:RESult:DPHY:FRAMe<m>:VCHannel?         | 2073 |
| SEARCh:RESult:EBTB:SCOunt?                    | 2187 |
| SEARCh:RESult:EBTB:SYMBol<m>:DATA?            | 2188 |
| SEARCh:RESult:EBTB:SYMBol<m>:START?           | 2188 |
| SEARCh:RESult:EBTB:SYMBol<m>:STATus?          | 2188 |
| SEARCh:RESult:EBTB:SYMBol<m>:STOP?            | 2189 |

|                                               |      |
|-----------------------------------------------|------|
| SEARCh:RESult:ETHernet:WCOunt?                | 1916 |
| SEARCh:RESult:ETHernet:WORD<m>:BYTE<n>:VALue? | 1920 |
| SEARCh:RESult:ETHernet:WORD<m>:CRC?           | 1919 |
| SEARCh:RESult:ETHernet:WORD<m>:DATA?          | 1918 |
| SEARCh:RESult:ETHernet:WORD<m>:DESTAddress?   | 1917 |
| SEARCh:RESult:ETHernet:WORD<m>:DSYMBOL?       | 1919 |
| SEARCh:RESult:ETHernet:WORD<m>:FTYPE?         | 1918 |
| SEARCh:RESult:ETHernet:WORD<m>:SRCAddress?    | 1917 |
| SEARCh:RESult:ETHernet:WORD<m>:SSYMBOL?       | 1919 |
| SEARCh:RESult:ETHernet:WORD<m>:START?         | 1916 |
| SEARCh:RESult:ETHernet:WORD<m>:STATE?         | 1916 |
| SEARCh:RESult:ETHernet:WORD<m>:STOP?          | 1917 |
| SEARCh:RESult:ETHernet:WORD<m>:TYPE?          | 1918 |
| SEARCh:RESult:FLXRay:FCOunt?                  | 1835 |
| SEARCh:RESult:FLXRay:FRAMe<m>:ADID?           | 1835 |
| SEARCh:RESult:FLXRay:FRAMe<m>:CSState?        | 1835 |
| SEARCh:RESult:FLXRay:FRAMe<m>:CSValue?        | 1836 |
| SEARCh:RESult:FLXRay:FRAMe<m>:CYCount?        | 1836 |
| SEARCh:RESult:FLXRay:FRAMe<m>:DATA?           | 1836 |
| SEARCh:RESult:FLXRay:FRAMe<m>:FCState?        | 1837 |
| SEARCh:RESult:FLXRay:FRAMe<m>:FCValue?        | 1837 |
| SEARCh:RESult:FLXRay:FRAMe<m>:FLAGs?          | 1837 |
| SEARCh:RESult:FLXRay:FRAMe<m>:PAYLength?      | 1838 |
| SEARCh:RESult:FLXRay:FRAMe<m>:START?          | 1839 |
| SEARCh:RESult:FLXRay:FRAMe<m>:STATus?         | 1838 |
| SEARCh:RESult:FLXRay:FRAMe<m>:STOP?           | 1839 |
| SEARCh:RESult:FLXRay:FRAMe<m>:SYMBOL?         | 1839 |
| SEARCh:RESult:FLXRay:FRAMe<m>:TYPE?           | 1839 |
| SEARCh:RESult:HBTO:FCOunt?                    | 1945 |
| SEARCh:RESult:HBTO:FRAMe<m>:CRC?              | 1948 |
| SEARCh:RESult:HBTO:FRAMe<m>:DATA?             | 1947 |
| SEARCh:RESult:HBTO:FRAMe<m>:DESTAddress?      | 1947 |
| SEARCh:RESult:HBTO:FRAMe<m>:DSYMBOL?          | 1949 |
| SEARCh:RESult:HBTO:FRAMe<m>:FTYPE?            | 1948 |
| SEARCh:RESult:HBTO:FRAMe<m>:NUMWords?         | 1948 |
| SEARCh:RESult:HBTO:FRAMe<m>:SRCAddress?       | 1947 |
| SEARCh:RESult:HBTO:FRAMe<m>:SSYMBOL?          | 1949 |
| SEARCh:RESult:HBTO:FRAMe<m>:START?            | 1946 |
| SEARCh:RESult:HBTO:FRAMe<m>:STATE?            | 1946 |
| SEARCh:RESult:HBTO:FRAMe<m>:STOP?             | 1946 |
| SEARCh:RESult:HBTO:FRAMe<m>:TYPE?             | 1945 |
| SEARCh:RESult:HBTO:FRAMe<m>:WORD<n>:TYPE?     | 1949 |
| SEARCh:RESult:HBTO:FRAMe<m>:WORD<n>:VALue?    | 1950 |
| SEARCh:RESult:I2C:FCOunt?                     | 1701 |
| SEARCh:RESult:I2C:FRAMe<m>:AACCess?           | 1702 |
| SEARCh:RESult:I2C:FRAMe<m>:ACCess?            | 1702 |
| SEARCh:RESult:I2C:FRAMe<m>:ACOMplete?         | 1702 |
| SEARCh:RESult:I2C:FRAMe<m>:ADBStart?          | 1703 |
| SEARCh:RESult:I2C:FRAMe<m>:ADDReSS?           | 1703 |
| SEARCh:RESult:I2C:FRAMe<m>:ADEVice?           | 1703 |

|                                              |      |
|----------------------------------------------|------|
| SEARCh:RESult:I2C:FRAMe<m>:AMODe?            | 1703 |
| SEARCh:RESult:I2C:FRAMe<m>:AStart?           | 1704 |
| SEARCh:RESult:I2C:FRAMe<m>:BCOunt?           | 1705 |
| SEARCh:RESult:I2C:FRAMe<m>:BYTE<n>:ACcEss?   | 1705 |
| SEARCh:RESult:I2C:FRAMe<m>:BYTE<n>:ACKStart? | 1705 |
| SEARCh:RESult:I2C:FRAMe<m>:BYTE<n>:COMPLetE? | 1706 |
| SEARCh:RESult:I2C:FRAMe<m>:BYTE<n>:START?    | 1706 |
| SEARCh:RESult:I2C:FRAMe<m>:BYTE<n>:VALue?    | 1706 |
| SEARCh:RESult:I2C:FRAMe<m>:DATA?             | 1704 |
| SEARCh:RESult:I2C:FRAMe<m>:RWBStart?         | 1704 |
| SEARCh:RESult:I2C:FRAMe<m>:START?            | 1701 |
| SEARCh:RESult:I2C:FRAMe<m>:STATus?           | 1701 |
| SEARCh:RESult:I2C:FRAMe<m>:STOP?             | 1701 |
| SEARCh:RESult:I2C:FRAMe<m>:SYMBol?           | 1705 |
| SEARCh:RESult:LIMit                          | 1635 |
| SEARCh:RESult:LIN:FCOunt?                    | 1801 |
| SEARCh:RESult:LIN:FRAMe<m>:BYTE<n>:STATe?    | 1805 |
| SEARCh:RESult:LIN:FRAMe<m>:BYTE<n>:VALue?    | 1806 |
| SEARCh:RESult:LIN:FRAMe<m>:CSSTate?          | 1803 |
| SEARCh:RESult:LIN:FRAMe<m>:CSValue?          | 1803 |
| SEARCh:RESult:LIN:FRAMe<m>:DATA?             | 1802 |
| SEARCh:RESult:LIN:FRAMe<m>:IDPValue?         | 1804 |
| SEARCh:RESult:LIN:FRAMe<m>:IDSTate?          | 1804 |
| SEARCh:RESult:LIN:FRAMe<m>:IDValue?          | 1804 |
| SEARCh:RESult:LIN:FRAMe<m>:SDATa?            | 1802 |
| SEARCh:RESult:LIN:FRAMe<m>:SDEXport?         | 1803 |
| SEARCh:RESult:LIN:FRAMe<m>:START?            | 1801 |
| SEARCh:RESult:LIN:FRAMe<m>:STATus?           | 1801 |
| SEARCh:RESult:LIN:FRAMe<m>:STOP?             | 1802 |
| SEARCh:RESult:LIN:FRAMe<m>:SYMBol?           | 1805 |
| SEARCh:RESult:LIN:FRAMe<m>:SYSTate?          | 1805 |
| SEARCh:RESult:LIN:FRAMe<m>:VERSion?          | 1805 |
| SEARCh:RESult:MDIO:WCOunt?                   | 2204 |
| SEARCh:RESult:MDIO:WORD<m>:DATA?             | 2201 |
| SEARCh:RESult:MDIO:WORD<m>:PHYS?             | 2201 |
| SEARCh:RESult:MDIO:WORD<m>:REGI?             | 2202 |
| SEARCh:RESult:MDIO:WORD<m>:ST?               | 2202 |
| SEARCh:RESult:MDIO:WORD<m>:START?            | 2202 |
| SEARCh:RESult:MDIO:WORD<m>:STATe?            | 2203 |
| SEARCh:RESult:MDIO:WORD<m>:STOP?             | 2203 |
| SEARCh:RESult:MDIO:WORD<m>:SYMBol?           | 2204 |
| SEARCh:RESult:MDIO:WORD<m>:TYPE?             | 2204 |
| SEARCh:RESult:MILStd:WCOunt?                 | 1878 |
| SEARCh:RESult:MILStd:WORD<m>:DATA?           | 1880 |
| SEARCh:RESult:MILStd:WORD<m>:INFO?           | 1880 |
| SEARCh:RESult:MILStd:WORD<m>:RTAdDress?      | 1879 |
| SEARCh:RESult:MILStd:WORD<m>:START?          | 1878 |
| SEARCh:RESult:MILStd:WORD<m>:STATus?         | 1878 |
| SEARCh:RESult:MILStd:WORD<m>:STOP?           | 1879 |
| SEARCh:RESult:MILStd:WORD<m>:SYMBol?         | 1879 |



|                                               |      |
|-----------------------------------------------|------|
| SEARCh:RESult:MILStd:WORD<m>:TYPE?            | 1878 |
| SEARCh:RESult:MPHY:FCOunt?                    | 2115 |
| SEARCh:RESult:MPHY:FRAMe<m>:CCOunt?           | 2115 |
| SEARCh:RESult:MPHY:FRAMe<m>:CELL<n>:DATA?     | 2116 |
| SEARCh:RESult:MPHY:FRAMe<m>:CELL<n>:START?    | 2116 |
| SEARCh:RESult:MPHY:FRAMe<m>:CELL<n>:STATe?    | 2117 |
| SEARCh:RESult:MPHY:FRAMe<m>:CELL<n>:STOP?     | 2117 |
| SEARCh:RESult:MPHY:FRAMe<m>:CELL<n>:TYPE?     | 2116 |
| SEARCh:RESult:MPHY:FRAMe<m>:DATA?             | 2117 |
| SEARCh:RESult:MPHY:FRAMe<m>:FTYPE?            | 2118 |
| SEARCh:RESult:MPHY:FRAMe<m>:START?            | 2119 |
| SEARCh:RESult:MPHY:FRAMe<m>:STATe?            | 2119 |
| SEARCh:RESult:MPHY:FRAMe<m>:STOP?             | 2120 |
| SEARCh:RESult:PCIE:PACKet<m>:ADDR?            | 2352 |
| SEARCh:RESult:PCIE:PACKet<m>:CPID?            | 2352 |
| SEARCh:RESult:PCIE:PACKet<m>:CPS?             | 2352 |
| SEARCh:RESult:PCIE:PACKet<m>:DATA?            | 2352 |
| SEARCh:RESult:PCIE:PACKet<m>:DFC?             | 2353 |
| SEARCh:RESult:PCIE:PACKet<m>:FCOunt?          | 2353 |
| SEARCh:RESult:PCIE:PACKet<m>:FLD<n>:FVAL?     | 2353 |
| SEARCh:RESult:PCIE:PACKet<m>:FLD<n>:STATus?   | 2353 |
| SEARCh:RESult:PCIE:PACKet<m>:FLD<n>:TYPE?     | 2354 |
| SEARCh:RESult:PCIE:PACKet<m>:FLD<n>:VAL?      | 2354 |
| SEARCh:RESult:PCIE:PACKet<m>:HFC?             | 2354 |
| SEARCh:RESult:PCIE:PACKet<m>:LEN?             | 2355 |
| SEARCh:RESult:PCIE:PACKet<m>:RQID?            | 2355 |
| SEARCh:RESult:PCIE:PACKet<m>:SEQN?            | 2355 |
| SEARCh:RESult:PCIE:PACKet<m>:START?           | 2356 |
| SEARCh:RESult:PCIE:PACKet<m>:STATe?           | 2356 |
| SEARCh:RESult:PCIE:PACKet<m>:STOP?            | 2356 |
| SEARCh:RESult:PCIE:PACKet<m>:TAG?             | 2356 |
| SEARCh:RESult:PCIE:PACKet<m>:TYPE?            | 2357 |
| SEARCh:RESult:PCIE:PCOunt?                    | 2357 |
| SEARCh:RESult:RFFE:FCOunt?                    | 2039 |
| SEARCh:RESult:RFFE:SEQuence<m>:ADDReSS?       | 2041 |
| SEARCh:RESult:RFFE:SEQuence<m>:BCOunt?        | 2041 |
| SEARCh:RESult:RFFE:SEQuence<m>:BYTe<n>:STATe? | 2042 |
| SEARCh:RESult:RFFE:SEQuence<m>:BYTe<n>:VALue? | 2042 |
| SEARCh:RESult:RFFE:SEQuence<m>:DATA?          | 2041 |
| SEARCh:RESult:RFFE:SEQuence<m>:SADD?          | 2040 |
| SEARCh:RESult:RFFE:SEQuence<m>:START?         | 2040 |
| SEARCh:RESult:RFFE:SEQuence<m>:STATe?         | 2039 |
| SEARCh:RESult:RFFE:SEQuence<m>:STOP?          | 2040 |
| SEARCh:RESult:RFFE:SEQuence<m>:SYMBol?        | 2041 |
| SEARCh:RESult:RFFE:SEQuence<m>:TYPE?          | 2039 |
| SEARCh:RESult:SENT:FCOunt?                    | 2007 |
| SEARCh:RESult:SENT:FRAMe<m>:CSValue?          | 2007 |
| SEARCh:RESult:SENT:FRAMe<m>:DATA?             | 2007 |
| SEARCh:RESult:SENT:FRAMe<m>:IDTYpe?           | 2007 |
| SEARCh:RESult:SENT:FRAMe<m>:IDValue?          | 2008 |

|                                              |      |
|----------------------------------------------|------|
| SEARCh:RESult:SENT:FRAMe<m>:NIBBle<n>:STATe? | 2008 |
| SEARCh:RESult:SENT:FRAMe<m>:NIBBle<n>:VALue? | 2008 |
| SEARCh:RESult:SENT:FRAMe<m>:PAPTicks?        | 2009 |
| SEARCh:RESult:SENT:FRAMe<m>:SCOM?            | 2009 |
| SEARCh:RESult:SENT:FRAMe<m>:SDATa?           | 2009 |
| SEARCh:RESult:SENT:FRAMe<m>:STARt?           | 2010 |
| SEARCh:RESult:SENT:FRAMe<m>:STATus?          | 2010 |
| SEARCh:RESult:SENT:FRAMe<m>:STOP?            | 2010 |
| SEARCh:RESult:SENT:FRAMe<m>:SYMBol?          | 2010 |
| SEARCh:RESult:SENT:FRAMe<m>:SYNCduration?    | 2011 |
| SEARCh:RESult:SENT:FRAMe<m>:TYPE?            | 2011 |
| SEARCh:RESult:SHOW                           | 1636 |
| SEARCh:RESult:SORT:ASCending                 | 1636 |
| SEARCh:RESult:SORT[:MODE]                    | 1636 |
| SEARCh:RESult:SPI:FCOunt?                    | 1723 |
| SEARCh:RESult:SPI:FRAMe<m>:COUnT?            | 1723 |
| SEARCh:RESult:SPI:FRAMe<m>:DATA?             | 1723 |
| SEARCh:RESult:SPI:FRAMe<m>:STARt?            | 1723 |
| SEARCh:RESult:SPI:FRAMe<m>:STATus?           | 1724 |
| SEARCh:RESult:SPI:FRAMe<m>:STOP?             | 1724 |
| SEARCh:RESult:SPI:FRAMe<m>:WCOunt?           | 1724 |
| SEARCh:RESult:SPI:FRAMe<m>:WORD<n>:MISO?     | 1725 |
| SEARCh:RESult:SPI:FRAMe<m>:WORD<n>:MOSI?     | 1725 |
| SEARCh:RESult:SPI:FRAMe<m>:WORD<n>:STARt?    | 1725 |
| SEARCh:RESult:SPI:FRAMe<m>:WORD<n>:STOP?     | 1726 |
| SEARCh:RESult:SWIRe:FCOunt?                  | 2315 |
| SEARCh:RESult:SWIRe:FRAMe<m>:DATA?           | 2316 |
| SEARCh:RESult:SWIRe:FRAMe<m>:STARt?          | 2316 |
| SEARCh:RESult:SWIRe:FRAMe<m>:STATe?          | 2316 |
| SEARCh:RESult:SWIRe:FRAMe<m>:STOP?           | 2317 |
| SEARCh:RESult:SWIRe:FRAMe<m>:TYPE?           | 2317 |
| SEARCh:RESult:TBTO:FCOunt?                   | 1976 |
| SEARCh:RESult:TBTO:FRAMe<m>:CRC?             | 1976 |
| SEARCh:RESult:TBTO:FRAMe<m>:DATA?            | 1976 |
| SEARCh:RESult:TBTO:FRAMe<m>:DESTaddress?     | 1976 |
| SEARCh:RESult:TBTO:FRAMe<m>:DSYMBol?         | 1977 |
| SEARCh:RESult:TBTO:FRAMe<m>:FTYPE?           | 1977 |
| SEARCh:RESult:TBTO:FRAMe<m>:NUMWords?        | 1978 |
| SEARCh:RESult:TBTO:FRAMe<m>:SRCaddress?      | 1978 |
| SEARCh:RESult:TBTO:FRAMe<m>:SSYMBol?         | 1978 |
| SEARCh:RESult:TBTO:FRAMe<m>:STARt?           | 1979 |
| SEARCh:RESult:TBTO:FRAMe<m>:STATe?           | 1979 |
| SEARCh:RESult:TBTO:FRAMe<m>:STOP?            | 1979 |
| SEARCh:RESult:TBTO:FRAMe<m>:TYPE?            | 1980 |
| SEARCh:RESult:TBTO:FRAMe<m>:WORD<n>:TYPE?    | 1980 |
| SEARCh:RESult:TBTO:FRAMe<m>:WORD<n>:VALue?   | 1980 |
| SEARCh:RESult:TBTO:FRAMe<m>:WORD<n>:VSTR?    | 1981 |
| SEARCh:RESult:USB:PACKet<m>:ADDReSS?         | 2240 |
| SEARCh:RESult:USB:PACKet<m>:CRC?             | 2241 |
| SEARCh:RESult:USB:PACKet<m>:DATA?            | 2241 |

|                                                |      |
|------------------------------------------------|------|
| SEARCh:RESult:USB:PACKet<m>:ENDPoint?          | 2241 |
| SEARCh:RESult:USB:PACKet<m>:ET?                | 2242 |
| SEARCh:RESult:USB:PACKet<m>:FRAMe?             | 2242 |
| SEARCh:RESult:USB:PACKet<m>:PID?               | 2242 |
| SEARCh:RESult:USB:PACKet<m>:PORT?              | 2243 |
| SEARCh:RESult:USB:PACKet<m>:SC?                | 2243 |
| SEARCh:RESult:USB:PACKet<m>:SEU?               | 2243 |
| SEARCh:RESult:USB:PACKet<m>:START?             | 2244 |
| SEARCh:RESult:USB:PACKet<m>:STATus?            | 2244 |
| SEARCh:RESult:USB:PACKet<m>:STOP?              | 2244 |
| SEARCh:RESult:USB:PCOut?                       | 2245 |
| SEARCh:RESult:USBPd:FCOut?                     | 2295 |
| SEARCh:RESult:USBPd:FRAMe<m>:DATA?             | 2296 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:FVAL?      | 2296 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:START?     | 2297 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:STATus?    | 2296 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:STOP?      | 2297 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:TYPE?      | 2298 |
| SEARCh:RESult:USBPd:FRAMe<m>:FLD<n>:VAL?       | 2298 |
| SEARCh:RESult:USBPd:FRAMe<m>:INFO?             | 2298 |
| SEARCh:RESult:USBPd:FRAMe<m>:START?            | 2299 |
| SEARCh:RESult:USBPd:FRAMe<m>:STATe?            | 2299 |
| SEARCh:RESult:USBPd:FRAMe<m>:STOP?             | 2299 |
| SEARCh:RESult:USBPd:FRAMe<m>:TYPE?             | 2300 |
| SEARCh:RESult:USBThree:FCOut?                  | 2272 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:FVAL?   | 2276 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:START?  | 2274 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:STATus? | 2274 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:STOP?   | 2275 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:TYPE?   | 2274 |
| SEARCh:RESult:USBThree:FRAMe<m>:FLD<n>:VAL?    | 2275 |
| SEARCh:RESult:USBThree:FRAMe<m>:INFO?          | 2272 |
| SEARCh:RESult:USBThree:FRAMe<m>:START?         | 2273 |
| SEARCh:RESult:USBThree:FRAMe<m>:STATe?         | 2273 |
| SEARCh:RESult:USBThree:FRAMe<m>:STOP?          | 2273 |
| SEARCh:RESult:USBThree:FRAMe<m>:TYPE?          | 2272 |
| SEARCh:RESult[:ALL]?                           | 1637 |
| SEARCh:SOURce                                  | 1602 |
| SEARCh:TRIGger:ARINc:DATA:CONDition            | 1891 |
| SEARCh:TRIGger:ARINc:DATA:MAX                  | 1892 |
| SEARCh:TRIGger:ARINc:DATA:MIN                  | 1891 |
| SEARCh:TRIGger:ARINc:ERRor:CODing              | 1892 |
| SEARCh:TRIGger:ARINc:ERRor:PARity              | 1893 |
| SEARCh:TRIGger:ARINc:ERRor:TIMing              | 1893 |
| SEARCh:TRIGger:ARINc:LABel:CONDition           | 1891 |
| SEARCh:TRIGger:ARINc:LABel:MAX                 | 1892 |
| SEARCh:TRIGger:ARINc:LABel:MIN                 | 1891 |
| SEARCh:TRIGger:ARINc:SDI                       | 1892 |
| SEARCh:TRIGger:ARINc:SSM                       | 1892 |
| SEARCh:TRIGger:ARINc:TYPE                      | 1891 |

|                                                    |      |
|----------------------------------------------------|------|
| SEARch:TRIGger:CAN:ACKerror.....                   | 1764 |
| SEARch:TRIGger:CAN:BITSterror.....                 | 1765 |
| SEARch:TRIGger:CAN:CRCErrror.....                  | 1765 |
| SEARch:TRIGger:CAN:DCONdition.....                 | 1761 |
| SEARch:TRIGger:CAN:DLC.....                        | 1763 |
| SEARch:TRIGger:CAN:DLCCCondition.....              | 1762 |
| SEARch:TRIGger:CAN:DMAX.....                       | 1762 |
| SEARch:TRIGger:CAN:DMIN.....                       | 1762 |
| SEARch:TRIGger:CAN:FDATa:BRS.....                  | 1766 |
| SEARch:TRIGger:CAN:FDATa:DPOperator.....           | 1763 |
| SEARch:TRIGger:CAN:FDATa:DPOStition.....           | 1764 |
| SEARch:TRIGger:CAN:FDATa:DPTO.....                 | 1764 |
| SEARch:TRIGger:CAN:FDATa:ESI.....                  | 1766 |
| SEARch:TRIGger:CAN:FDATa:SCERror.....              | 1765 |
| SEARch:TRIGger:CAN:FDATa:STANdard.....             | 1760 |
| SEARch:TRIGger:CAN:FDATa[:FDF].....                | 1766 |
| SEARch:TRIGger:CAN:FORMerror.....                  | 1765 |
| SEARch:TRIGger:CAN:FTYPE.....                      | 1760 |
| SEARch:TRIGger:CAN:ICONdition.....                 | 1760 |
| SEARch:TRIGger:CAN:IMAX.....                       | 1761 |
| SEARch:TRIGger:CAN:IMIN.....                       | 1761 |
| SEARch:TRIGger:CAN:ITYPe.....                      | 1760 |
| SEARch:TRIGger:CAN:SERRor.....                     | 1759 |
| SEARch:TRIGger:CAN:SFIDentifier.....               | 1759 |
| SEARch:TRIGger:CAN:SFTYPE.....                     | 1759 |
| SEARch:TRIGger:CAN:SIDData.....                    | 1759 |
| SEARch:TRIGger:CAN:SSYMBOLic.....                  | 1775 |
| SEARch:TRIGger:CAN:SYMBOLic:DMAX.....              | 1777 |
| SEARch:TRIGger:CAN:SYMBOLic:DMIN.....              | 1777 |
| SEARch:TRIGger:CAN:SYMBOLic:MSGValue.....          | 1776 |
| SEARch:TRIGger:CAN:SYMBOLic:SGEValue.....          | 1777 |
| SEARch:TRIGger:CAN:SYMBOLic:SIGValue.....          | 1776 |
| SEARch:TRIGger:CAN:SYMBOLic:SSIGnals.....          | 1776 |
| SEARch:TRIGger:CAN[:SSOFrame].....                 | 1758 |
| SEARch:TRIGger:CMSB:BIT.....                       | 2164 |
| SEARch:TRIGger:CMSB:DMAX.....                      | 2165 |
| SEARch:TRIGger:CMSB:DMIN.....                      | 2165 |
| SEARch:TRIGger:CMSB:DOPerator.....                 | 2166 |
| SEARch:TRIGger:CMSB:ERENable.....                  | 2164 |
| SEARch:TRIGger:CMSB:ERRor<m>:ENABLE.....           | 2164 |
| SEARch:TRIGger:CMSB:FIENable.....                  | 2164 |
| SEARch:TRIGger:CMSB:FRAMe<m>:ENABLE.....           | 2166 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:BIT.....       | 2164 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:DMAX.....      | 2165 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:DMIN.....      | 2165 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:DOPerator..... | 2166 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:ENABLE.....    | 2166 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:IMAX.....      | 2167 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:IMIN.....      | 2167 |
| SEARch:TRIGger:CMSB:FRAMe<m>:FLD<n>:IOPerator..... | 2167 |

|                                                   |      |
|---------------------------------------------------|------|
| SEARch:TRIGger:CMSB:FREnable.....                 | 2164 |
| SEARch:TRIGger:CMSB:IMAX.....                     | 2167 |
| SEARch:TRIGger:CMSB:IMIN.....                     | 2167 |
| SEARch:TRIGger:CMSB:IOperator.....                | 2167 |
| SEARch:TRIGger:CXPI:CT.....                       | 2374 |
| SEARch:TRIGger:CXPI:DATA:DCondition.....          | 2374 |
| SEARch:TRIGger:CXPI:DATA:DMax.....                | 2374 |
| SEARch:TRIGger:CXPI:DATA:DMin.....                | 2375 |
| SEARch:TRIGger:CXPI:DATA:ICONdition.....          | 2375 |
| SEARch:TRIGger:CXPI:DATA:IMAX.....                | 2375 |
| SEARch:TRIGger:CXPI:DATA:IMIN.....                | 2376 |
| SEARch:TRIGger:CXPI:DEXTension:CONdition.....     | 2376 |
| SEARch:TRIGger:CXPI:DEXTension:MAX.....           | 2376 |
| SEARch:TRIGger:CXPI:DEXTension:MIN.....           | 2377 |
| SEARch:TRIGger:CXPI:DLC:CONdition.....            | 2377 |
| SEARch:TRIGger:CXPI:DLC:MAX.....                  | 2377 |
| SEARch:TRIGger:CXPI:DLC:MIN.....                  | 2377 |
| SEARch:TRIGger:CXPI:ERRor:CRC.....                | 2378 |
| SEARch:TRIGger:CXPI:ERRor:DLC.....                | 2378 |
| SEARch:TRIGger:CXPI:ERRor:IBS.....                | 2378 |
| SEARch:TRIGger:CXPI:ERRor:IFS.....                | 2378 |
| SEARch:TRIGger:CXPI:ERRor:LENGth.....             | 2379 |
| SEARch:TRIGger:CXPI:ERRor:PARity.....             | 2379 |
| SEARch:TRIGger:CXPI:ERRor:UART.....               | 2379 |
| SEARch:TRIGger:CXPI:FID:CONdition.....            | 2379 |
| SEARch:TRIGger:CXPI:FID:MAX.....                  | 2380 |
| SEARch:TRIGger:CXPI:FID:MIN.....                  | 2380 |
| SEARch:TRIGger:CXPI:Nm.....                       | 2380 |
| SEARch:TRIGger:CXPI:TYPE.....                     | 2381 |
| SEARch:TRIGger:DDR:DMax.....                      | 2393 |
| SEARch:TRIGger:DDR:DMin.....                      | 2394 |
| SEARch:TRIGger:DDR:DOPerator.....                 | 2394 |
| SEARch:TRIGger:DDR:ERENable.....                  | 2392 |
| SEARch:TRIGger:DDR:ERRor<m>:ENABLE.....           | 2392 |
| SEARch:TRIGger:DDR:FIENable.....                  | 2393 |
| SEARch:TRIGger:DDR:FRAMe<m>:ENABLE.....           | 2395 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:DMax.....      | 2393 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:DMin.....      | 2394 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:DOPerator..... | 2394 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:IMAX.....      | 2395 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:IMIN.....      | 2395 |
| SEARch:TRIGger:DDR:FRAMe<m>:FLD<n>:IOperator..... | 2396 |
| SEARch:TRIGger:DDR:FREnable.....                  | 2393 |
| SEARch:TRIGger:DDR:FREnable.....                  | 2395 |
| SEARch:TRIGger:DDR:IMAX.....                      | 2395 |
| SEARch:TRIGger:DDR:IMIN.....                      | 2395 |
| SEARch:TRIGger:DDR:IOperator.....                 | 2396 |
| SEARch:TRIGger:DPHY:DATA:CONdition.....           | 2062 |
| SEARch:TRIGger:DPHY:DATA:MAX.....                 | 2062 |
| SEARch:TRIGger:DPHY:DATA:MIN.....                 | 2062 |

|                                                |      |
|------------------------------------------------|------|
| SEARch:TRIGger:DPHY:DIDX:CONDition.....        | 2063 |
| SEARch:TRIGger:DPHY:DIDX:MAX.....              | 2063 |
| SEARch:TRIGger:DPHY:DIDX:MIN.....              | 2063 |
| SEARch:TRIGger:DPHY:DTYPe:CONDition.....       | 2064 |
| SEARch:TRIGger:DPHY:DTYPe:MAX.....             | 2064 |
| SEARch:TRIGger:DPHY:DTYPe:MIN.....             | 2064 |
| SEARch:TRIGger:DPHY:ESCMoDe:CONDition.....     | 2065 |
| SEARch:TRIGger:DPHY:ESCMoDe:MAX.....           | 2065 |
| SEARch:TRIGger:DPHY:ESCMoDe:MIN.....           | 2065 |
| SEARch:TRIGger:DPHY:ESDTa:CONDition.....       | 2066 |
| SEARch:TRIGger:DPHY:ESDTa:MAX.....             | 2066 |
| SEARch:TRIGger:DPHY:ESDTa:MIN.....             | 2066 |
| SEARch:TRIGger:DPHY:ESINdex:CONDition.....     | 2067 |
| SEARch:TRIGger:DPHY:ESINdex:MAX.....           | 2067 |
| SEARch:TRIGger:DPHY:ESINdex:MIN.....           | 2067 |
| SEARch:TRIGger:DPHY:HSVC.....                  | 2068 |
| SEARch:TRIGger:DPHY:TYPE.....                  | 2061 |
| SEARch:TRIGger:DPHY:WCOunt:CONDition.....      | 2068 |
| SEARch:TRIGger:DPHY:WCOunt:MAX.....            | 2068 |
| SEARch:TRIGger:DPHY:WCOunt:MIN.....            | 2069 |
| SEARch:TRIGger:EBTB:DISParityerr.....          | 2184 |
| SEARch:TRIGger:EBTB:DX.....                    | 2185 |
| SEARch:TRIGger:EBTB:DY.....                    | 2185 |
| SEARch:TRIGger:EBTB:EBPA.....                  | 2185 |
| SEARch:TRIGger:EBTB:GLITCherror.....           | 2185 |
| SEARch:TRIGger:EBTB:STYPe.....                 | 2186 |
| SEARch:TRIGger:EBTB:SYME.....                  | 2186 |
| SEARch:TRIGger:EBTB:SYMType.....               | 2186 |
| SEARch:TRIGger:EBTB:TBPA.....                  | 2186 |
| SEARch:TRIGger:EBTB:TYPE.....                  | 2187 |
| SEARch:TRIGger:EBTB:UNK.....                   | 2187 |
| SEARch:TRIGger:EDGE:ACOPy.....                 | 1605 |
| SEARch:TRIGger:EDGE:BCOPy.....                 | 1605 |
| SEARch:TRIGger:EDGE:SLOPe.....                 | 1606 |
| SEARch:TRIGger:EDGE[:STATe].....               | 1604 |
| SEARch:TRIGger:ETHernet:ERRor:LENGth.....      | 1915 |
| SEARch:TRIGger:ETHernet:ERRor:PREAmble.....    | 1915 |
| SEARch:TRIGger:ETHernet:ERRor:SElect.....      | 1915 |
| SEARch:TRIGger:ETHernet:FRAMe:CCONdition.....  | 1914 |
| SEARch:TRIGger:ETHernet:FRAMe:CMAX.....        | 1914 |
| SEARch:TRIGger:ETHernet:FRAMe:CMIN.....        | 1914 |
| SEARch:TRIGger:ETHernet:FRAMe:DCCONdition..... | 1911 |
| SEARch:TRIGger:ETHernet:FRAMe:DMAX.....        | 1911 |
| SEARch:TRIGger:ETHernet:FRAMe:DMIN.....        | 1911 |
| SEARch:TRIGger:ETHernet:FRAMe:SCONdition.....  | 1912 |
| SEARch:TRIGger:ETHernet:FRAMe:SElect.....      | 1910 |
| SEARch:TRIGger:ETHernet:FRAMe:SMAX.....        | 1912 |
| SEARch:TRIGger:ETHernet:FRAMe:SMIN.....        | 1912 |
| SEARch:TRIGger:ETHernet:FRAMe:TCCONdition..... | 1913 |
| SEARch:TRIGger:ETHernet:FRAMe:TMAX.....        | 1913 |

|                                             |      |
|---------------------------------------------|------|
| SEARch:TRIGger:ETHernet:FRAMe:TMIN.....     | 1913 |
| SEARch:TRIGger:FLXRay:BSSerror.....         | 1833 |
| SEARch:TRIGger:FLXRay:CENable.....          | 1826 |
| SEARch:TRIGger:FLXRay:CMAX.....             | 1827 |
| SEARch:TRIGger:FLXRay:CMIN.....             | 1827 |
| SEARch:TRIGger:FLXRay:CSTep.....            | 1827 |
| SEARch:TRIGger:FLXRay:DCONdition.....       | 1828 |
| SEARch:TRIGger:FLXRay:DMAX.....             | 1828 |
| SEARch:TRIGger:FLXRay:DMIN.....             | 1828 |
| SEARch:TRIGger:FLXRay:DPOperator.....       | 1829 |
| SEARch:TRIGger:FLXRay:DPOsition.....        | 1829 |
| SEARch:TRIGger:FLXRay:DPTO.....             | 1829 |
| SEARch:TRIGger:FLXRay:FCONdition.....       | 1830 |
| SEARch:TRIGger:FLXRay:FESerror.....         | 1833 |
| SEARch:TRIGger:FLXRay:FMAX.....             | 1830 |
| SEARch:TRIGger:FLXRay:FMIN.....             | 1830 |
| SEARch:TRIGger:FLXRay:FSSerror.....         | 1834 |
| SEARch:TRIGger:FLXRay:HCRError.....         | 1834 |
| SEARch:TRIGger:FLXRay:NUFRame.....          | 1831 |
| SEARch:TRIGger:FLXRay:PCONdition.....       | 1831 |
| SEARch:TRIGger:FLXRay:PCRCerror.....        | 1834 |
| SEARch:TRIGger:FLXRay:PLPReamble.....       | 1831 |
| SEARch:TRIGger:FLXRay:PMAX.....             | 1832 |
| SEARch:TRIGger:FLXRay:PMIN.....             | 1832 |
| SEARch:TRIGger:FLXRay:SERRor.....           | 1825 |
| SEARch:TRIGger:FLXRay:SIDData.....          | 1826 |
| SEARch:TRIGger:FLXRay:SSYMBol.....          | 1826 |
| SEARch:TRIGger:FLXRay:STFRame.....          | 1832 |
| SEARch:TRIGger:FLXRay:SYFRame.....          | 1833 |
| SEARch:TRIGger:FLXRay:SYMBol.....           | 1833 |
| SEARch:TRIGger:FLXRay[:SSOFrame].....       | 1826 |
| SEARch:TRIGger:GLITCh:ACOPy.....            | 1605 |
| SEARch:TRIGger:GLITCh:POLarity.....         | 1606 |
| SEARch:TRIGger:GLITCh:RANGe.....            | 1607 |
| SEARch:TRIGger:GLITCh:WIDTh.....            | 1607 |
| SEARch:TRIGger:GLITCh[:STATe].....          | 1604 |
| SEARch:TRIGger:HBTO:CRC:CONDItion.....      | 1941 |
| SEARch:TRIGger:HBTO:CRC:MAX.....            | 1942 |
| SEARch:TRIGger:HBTO:CRC:MIN.....            | 1941 |
| SEARch:TRIGger:HBTO:DADDrESS:CONDItion..... | 1938 |
| SEARch:TRIGger:HBTO:DADDrESS:MAX.....       | 1939 |
| SEARch:TRIGger:HBTO:DADDrESS:MIN.....       | 1938 |
| SEARch:TRIGger:HBTO:DATA:DCONDItion.....    | 1942 |
| SEARch:TRIGger:HBTO:DATA:DMAX.....          | 1943 |
| SEARch:TRIGger:HBTO:DATA:DMIN.....          | 1942 |
| SEARch:TRIGger:HBTO:DATA:ICONDItion.....    | 1943 |
| SEARch:TRIGger:HBTO:DATA:IMAX.....          | 1944 |
| SEARch:TRIGger:HBTO:DATA:IMIN.....          | 1943 |
| SEARch:TRIGger:HBTO:ERRor:CRC.....          | 1944 |
| SEARch:TRIGger:HBTO:ERRor:PREamble.....     | 1944 |

|                                             |      |
|---------------------------------------------|------|
| SEARch:TRIGger:HBTO:ERRor:SFD.....          | 1944 |
| SEARch:TRIGger:HBTO:LENGth:CONDition.....   | 1940 |
| SEARch:TRIGger:HBTO:LENGth:MAX.....         | 1941 |
| SEARch:TRIGger:HBTO:LENGth:MIN.....         | 1940 |
| SEARch:TRIGger:HBTO:SADDress:CONDition..... | 1939 |
| SEARch:TRIGger:HBTO:SADDress:MAX.....       | 1940 |
| SEARch:TRIGger:HBTO:SADDress:MIN.....       | 1939 |
| SEARch:TRIGger:HBTO:TYPE.....               | 1937 |
| SEARch:TRIGger:I2C:ACCess.....              | 1696 |
| SEARch:TRIGger:I2C:ACONdition.....          | 1694 |
| SEARch:TRIGger:I2C:ADDData.....             | 1694 |
| SEARch:TRIGger:I2C:ADDO<m>:ADRTYPE.....     | 1696 |
| SEARch:TRIGger:I2C:ADDO<m>:ENABLE.....      | 1696 |
| SEARch:TRIGger:I2C:ADDO<m>:RWBit.....       | 1697 |
| SEARch:TRIGger:I2C:ADDO<m>[:VALue].....     | 1697 |
| SEARch:TRIGger:I2C:ADDress.....             | 1695 |
| SEARch:TRIGger:I2C:ADDTo.....               | 1695 |
| SEARch:TRIGger:I2C:ADNack.....              | 1699 |
| SEARch:TRIGger:I2C:ADOR.....                | 1694 |
| SEARch:TRIGger:I2C:AMODE.....               | 1695 |
| SEARch:TRIGger:I2C:DCONDition.....          | 1698 |
| SEARch:TRIGger:I2C:DMAX.....                | 1699 |
| SEARch:TRIGger:I2C:DMIN.....                | 1699 |
| SEARch:TRIGger:I2C:DPOPerator.....          | 1697 |
| SEARch:TRIGger:I2C:DPOSition.....           | 1698 |
| SEARch:TRIGger:I2C:DPTO.....                | 1698 |
| SEARch:TRIGger:I2C:DRNack.....              | 1699 |
| SEARch:TRIGger:I2C:DWNack.....              | 1700 |
| SEARch:TRIGger:I2C:NACKnowledge.....        | 1693 |
| SEARch:TRIGger:I2C:RCONDition.....          | 1692 |
| SEARch:TRIGger:I2C:SADDress.....            | 1693 |
| SEARch:TRIGger:I2C:SCONdition.....          | 1692 |
| SEARch:TRIGger:I2C:STCNdition.....          | 1693 |
| SEARch:TRIGger:INTerval:ACOPY.....          | 1605 |
| SEARch:TRIGger:INTerval:DELTA.....          | 1608 |
| SEARch:TRIGger:INTerval:RANGE.....          | 1608 |
| SEARch:TRIGger:INTerval:SLOPe.....          | 1607 |
| SEARch:TRIGger:INTerval:WIDTh.....          | 1609 |
| SEARch:TRIGger:INTerval[:STATe].....        | 1604 |
| SEARch:TRIGger:LEVel:RUNT:LOWer.....        | 1611 |
| SEARch:TRIGger:LEVel:RUNT:UPPer.....        | 1611 |
| SEARch:TRIGger:LEVel:TRANSition:LOWer.....  | 1613 |
| SEARch:TRIGger:LEVel:TRANSition:UPPer.....  | 1613 |
| SEARch:TRIGger:LEVel:WINDow:LOWer.....      | 1619 |
| SEARch:TRIGger:LEVel:WINDow:UPPer.....      | 1619 |
| SEARch:TRIGger:LEVel[:VALue].....           | 1605 |
| SEARch:TRIGger:LIN:BORDER.....              | 1798 |
| SEARch:TRIGger:LIN:CHKSError.....           | 1799 |
| SEARch:TRIGger:LIN:CRCDatalen.....          | 1800 |
| SEARch:TRIGger:LIN:DCONDition.....          | 1797 |



|                                            |      |
|--------------------------------------------|------|
| SEARCh:TRIGGer:LIN:DLECondition.....       | 1798 |
| SEARCh:TRIGGer:LIN:DLENgth.....            | 1799 |
| SEARCh:TRIGGer:LIN:DMAX.....               | 1797 |
| SEARCh:TRIGGer:LIN:DMIN.....               | 1797 |
| SEARCh:TRIGGer:LIN:ERRPattern.....         | 1800 |
| SEARCh:TRIGGer:LIN:ICONdition.....         | 1795 |
| SEARCh:TRIGGer:LIN:IDENtifieror.....       | 1794 |
| SEARCh:TRIGGer:LIN:IDOR<m>:ENABle.....     | 1796 |
| SEARCh:TRIGGer:LIN:IDOR<m>[:VALue].....    | 1796 |
| SEARCh:TRIGGer:LIN:IMAX.....               | 1796 |
| SEARCh:TRIGGer:LIN:IMIN.....               | 1796 |
| SEARCh:TRIGGer:LIN:IPERror.....            | 1799 |
| SEARCh:TRIGGer:LIN:SERRor.....             | 1795 |
| SEARCh:TRIGGer:LIN:SFIDentifier.....       | 1794 |
| SEARCh:TRIGGer:LIN:SIDData.....            | 1794 |
| SEARCh:TRIGGer:LIN:SSOFrame.....           | 1794 |
| SEARCh:TRIGGer:LIN:STANdard.....           | 1800 |
| SEARCh:TRIGGer:LIN:SYERror.....            | 1799 |
| SEARCh:TRIGGer:LIN:WUFRame.....            | 1795 |
| SEARCh:TRIGGer:MDIO:DATA.....              | 2198 |
| SEARCh:TRIGGer:MDIO:FRAMetype.....         | 2199 |
| SEARCh:TRIGGer:MDIO:PHYS.....              | 2199 |
| SEARCh:TRIGGer:MDIO:REGL.....              | 2199 |
| SEARCh:TRIGGer:MDIO:ST.....                | 2200 |
| SEARCh:TRIGGer:MDIO:TYPE.....              | 2200 |
| SEARCh:TRIGGer:MILStd:CDST:ICONdition..... | 1873 |
| SEARCh:TRIGGer:MILStd:CDST:IMAX.....       | 1874 |
| SEARCh:TRIGGer:MILStd:CDST:IMIN.....       | 1874 |
| SEARCh:TRIGGer:MILStd:CDST:RCONdition..... | 1872 |
| SEARCh:TRIGGer:MILStd:CDST:RMAX.....       | 1873 |
| SEARCh:TRIGGer:MILStd:CDST:RMIN.....       | 1873 |
| SEARCh:TRIGGer:MILStd:CMD:CCONdition.....  | 1873 |
| SEARCh:TRIGGer:MILStd:CMD:CMAx.....        | 1874 |
| SEARCh:TRIGGer:MILStd:CMD:CMIN.....        | 1874 |
| SEARCh:TRIGGer:MILStd:CMD:RCONdition.....  | 1872 |
| SEARCh:TRIGGer:MILStd:CMD:RMAx.....        | 1873 |
| SEARCh:TRIGGer:MILStd:CMD:RMIN.....        | 1873 |
| SEARCh:TRIGGer:MILStd:CMD:SCONdition.....  | 1874 |
| SEARCh:TRIGGer:MILStd:CMD:SMAX.....        | 1875 |
| SEARCh:TRIGGer:MILStd:CMD:SMIN.....        | 1874 |
| SEARCh:TRIGGer:MILStd:CMD:TR.....          | 1876 |
| SEARCh:TRIGGer:MILStd:DATA:DCONdition..... | 1874 |
| SEARCh:TRIGGer:MILStd:DATA:DMAx.....       | 1875 |
| SEARCh:TRIGGer:MILStd:DATA:DMIN.....       | 1874 |
| SEARCh:TRIGGer:MILStd:DATA:ICONdition..... | 1875 |
| SEARCh:TRIGGer:MILStd:DATA:IMAX.....       | 1875 |
| SEARCh:TRIGGer:MILStd:DATA:IMIN.....       | 1875 |
| SEARCh:TRIGGer:MILStd:DATA:RCONdition..... | 1872 |
| SEARCh:TRIGGer:MILStd:DATA:RMAx.....       | 1873 |
| SEARCh:TRIGGer:MILStd:DATA:RMIN.....       | 1873 |

|                                              |      |
|----------------------------------------------|------|
| SEARCh:TRIGGer:MILStd:ERRor:MANChesTer.....  | 1876 |
| SEARCh:TRIGGer:MILStd:ERRor:PARity.....      | 1876 |
| SEARCh:TRIGGer:MILStd:ERRor:SYNC.....        | 1876 |
| SEARCh:TRIGGer:MILStd:ERRor:TIMing.....      | 1876 |
| SEARCh:TRIGGer:MILStd:STATus:BCReceIved..... | 1876 |
| SEARCh:TRIGGer:MILStd:STATus:BUSY.....       | 1876 |
| SEARCh:TRIGGer:MILStd:STATus:DBCaccepT.....  | 1877 |
| SEARCh:TRIGGer:MILStd:STATus:INSTrument..... | 1877 |
| SEARCh:TRIGGer:MILStd:STATus:MERRor.....     | 1877 |
| SEARCh:TRIGGer:MILStd:STATus:SREQuest.....   | 1877 |
| SEARCh:TRIGGer:MILStd:STATus:SUBSystem.....  | 1877 |
| SEARCh:TRIGGer:MILStd:STATus:TERMinal.....   | 1877 |
| SEARCh:TRIGGer:MILStd:TPSPecifier.....       | 1877 |
| SEARCh:TRIGGer:MILStd:TYPE.....              | 1872 |
| SEARCh:TRIGGer:MPHY:CRC:CONDition.....       | 2109 |
| SEARCh:TRIGGer:MPHY:CRC:MAX.....             | 2110 |
| SEARCh:TRIGGer:MPHY:CRC:MIN.....             | 2109 |
| SEARCh:TRIGGer:MPHY:CREdit:CONDition.....    | 2111 |
| SEARCh:TRIGGer:MPHY:CREdit:MAX.....          | 2111 |
| SEARCh:TRIGGer:MPHY:CREdit:MIN.....          | 2111 |
| SEARCh:TRIGGer:MPHY:CREQ.....                | 2110 |
| SEARCh:TRIGGer:MPHY:DATA:DCONDition.....     | 2106 |
| SEARCh:TRIGGer:MPHY:DATA:DMAX.....           | 2107 |
| SEARCh:TRIGGer:MPHY:DATA:DMIN.....           | 2106 |
| SEARCh:TRIGGer:MPHY:DATA:ICONdition.....     | 2107 |
| SEARCh:TRIGGer:MPHY:DATA:IMAX.....           | 2108 |
| SEARCh:TRIGGer:MPHY:DATA:IMIN.....           | 2107 |
| SEARCh:TRIGGer:MPHY:ERRor:LCMD.....          | 2114 |
| SEARCh:TRIGGer:MPHY:ERRor:LENGth.....        | 2115 |
| SEARCh:TRIGGer:MPHY:ERRor:REServed.....      | 2114 |
| SEARCh:TRIGGer:MPHY:ERRor:SYMBol.....        | 2114 |
| SEARCh:TRIGGer:MPHY:ERRor:UNKNown.....       | 2114 |
| SEARCh:TRIGGer:MPHY:FSNumber:CONDition.....  | 2108 |
| SEARCh:TRIGGer:MPHY:FSNumber:MAX.....        | 2109 |
| SEARCh:TRIGGer:MPHY:FSNumber:MIN.....        | 2108 |
| SEARCh:TRIGGer:MPHY:LCCType.....             | 2101 |
| SEARCh:TRIGGer:MPHY:LWFour:CONDition.....    | 2105 |
| SEARCh:TRIGGer:MPHY:LWFour:MAX.....          | 2105 |
| SEARCh:TRIGGer:MPHY:LWFour:MIN.....          | 2105 |
| SEARCh:TRIGGer:MPHY:LWONe:CONDition.....     | 2102 |
| SEARCh:TRIGGer:MPHY:LWONe:MAX.....           | 2102 |
| SEARCh:TRIGGer:MPHY:LWONe:MIN.....           | 2102 |
| SEARCh:TRIGGer:MPHY:LWTHree:CONDition.....   | 2104 |
| SEARCh:TRIGGer:MPHY:LWTHree:MAX.....         | 2104 |
| SEARCh:TRIGGer:MPHY:LWTHree:MIN.....         | 2104 |
| SEARCh:TRIGGer:MPHY:LWTWo:CONDition.....     | 2103 |
| SEARCh:TRIGGer:MPHY:LWTWo:MAX.....           | 2103 |
| SEARCh:TRIGGer:MPHY:LWTWo:MIN.....           | 2103 |
| SEARCh:TRIGGer:MPHY:PBEGin:CONDition.....    | 2112 |
| SEARCh:TRIGGer:MPHY:PBEGin:MAX.....          | 2112 |

|                                                         |      |
|---------------------------------------------------------|------|
| SEARch:TRIGger:MPHY:PBEGin:MIN.....                     | 2112 |
| SEARch:TRIGger:MPHY:PFID:CONDition.....                 | 2113 |
| SEARch:TRIGger:MPHY:PFID:MAX.....                       | 2113 |
| SEARch:TRIGger:MPHY:PFID:MIN.....                       | 2113 |
| SEARch:TRIGger:MPHY:RREQ.....                           | 2110 |
| SEARch:TRIGger:MPHY:SSIC:BIT.....                       | 2127 |
| SEARch:TRIGger:MPHY:SSIC:DMAX.....                      | 2128 |
| SEARch:TRIGger:MPHY:SSIC:DMIN.....                      | 2128 |
| SEARch:TRIGger:MPHY:SSIC:DOPerator.....                 | 2129 |
| SEARch:TRIGger:MPHY:SSIC:ERENable.....                  | 2125 |
| SEARch:TRIGger:MPHY:SSIC:ERROR<m>:ENABle.....           | 2125 |
| SEARch:TRIGger:MPHY:SSIC:FIENable.....                  | 2126 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:ENABle.....           | 2126 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:BIT.....       | 2127 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:DMAX.....      | 2128 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:DMIN.....      | 2128 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:DOPerator..... | 2129 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:ENABle.....    | 2126 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:ENABle.....    | 2127 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:IMAX.....      | 2130 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:IMIN.....      | 2130 |
| SEARch:TRIGger:MPHY:SSIC:FRAME<m>:FLD<n>:IOPerator..... | 2130 |
| SEARch:TRIGger:MPHY:SSIC:FRENable.....                  | 2126 |
| SEARch:TRIGger:MPHY:SSIC:FRENable.....                  | 2129 |
| SEARch:TRIGger:MPHY:SSIC:IMAX.....                      | 2130 |
| SEARch:TRIGger:MPHY:SSIC:IMIN.....                      | 2130 |
| SEARch:TRIGger:MPHY:SSIC:IOPerator.....                 | 2130 |
| SEARch:TRIGger:MPHY:TC.....                             | 2106 |
| SEARch:TRIGger:MPHY:TYPE.....                           | 2100 |
| SEARch:TRIGger:PATtern:A:LOGic.....                     | 1622 |
| SEARch:TRIGger:PATtern:A[:ENABle].....                  | 1622 |
| SEARch:TRIGger:PATtern:AB:LOGic.....                    | 1623 |
| SEARch:TRIGger:PATtern:ABCD:LOGic.....                  | 1623 |
| SEARch:TRIGger:PATtern:ACOPy.....                       | 1605 |
| SEARch:TRIGger:PATtern:B:LOGic.....                     | 1622 |
| SEARch:TRIGger:PATtern:B[:ENABle].....                  | 1622 |
| SEARch:TRIGger:PATtern:C:LOGic.....                     | 1622 |
| SEARch:TRIGger:PATtern:C[:ENABle].....                  | 1622 |
| SEARch:TRIGger:PATtern:CD:LOGic.....                    | 1623 |
| SEARch:TRIGger:PATtern:D:LOGic.....                     | 1622 |
| SEARch:TRIGger:PATtern:D[:ENABle].....                  | 1622 |
| SEARch:TRIGger:PATtern:MODE.....                        | 1623 |
| SEARch:TRIGger:PATtern:TIMEout:MODE.....                | 1624 |
| SEARch:TRIGger:PATtern:TIMEout[:TIME].....              | 1624 |
| SEARch:TRIGger:PATtern:WIDTH:DELTA.....                 | 1625 |
| SEARch:TRIGger:PATtern:WIDTH:RANGe.....                 | 1624 |
| SEARch:TRIGger:PATtern:WIDTH[:WIDTH].....               | 1625 |
| SEARch:TRIGger:PATtern[:STATe].....                     | 1604 |
| SEARch:TRIGger:PCIE:DLLP:FCTL:CRET.....                 | 2340 |
| SEARch:TRIGger:PCIE:DLLP:FCTL:VCID.....                 | 2340 |

|                                           |      |
|-------------------------------------------|------|
| SEARch:TRIGger:PCIE:DLLP:MULT:AUTH.....   | 2340 |
| SEARch:TRIGger:PCIE:DLLP:MULT:CRET.....   | 2340 |
| SEARch:TRIGger:PCIE:DLLP:MULT:DVPT.....   | 2341 |
| SEARch:TRIGger:PCIE:DLLP:MULT:HABS.....   | 2341 |
| SEARch:TRIGger:PCIE:DLLP:MULT:MIXT.....   | 2341 |
| SEARch:TRIGger:PCIE:DLLP:MULT:PHAS.....   | 2341 |
| SEARch:TRIGger:PCIE:DLLP:MULT:RESA.....   | 2342 |
| SEARch:TRIGger:PCIE:DLLP:MULT:TLPT.....   | 2342 |
| SEARch:TRIGger:PCIE:DLLP:MULT:TYPE.....   | 2342 |
| SEARch:TRIGger:PCIE:DLLP:MULT:VHFC.....   | 2343 |
| SEARch:TRIGger:PCIE:DLLP:MULT:VHGR.....   | 2343 |
| SEARch:TRIGger:PCIE:DLLP:MULT:VLNR.....   | 2343 |
| SEARch:TRIGger:PCIE:DLLP:POWM.....        | 2343 |
| SEARch:TRIGger:PCIE:DLLP:SEQ.....         | 2344 |
| SEARch:TRIGger:PCIE:DLLP:TYPE.....        | 2344 |
| SEARch:TRIGger:PCIE:DLLP:VPAT.....        | 2344 |
| SEARch:TRIGger:PCIE:ERRC:CRC.....         | 2344 |
| SEARch:TRIGger:PCIE:ERRC:DISP.....        | 2345 |
| SEARch:TRIGger:PCIE:ERRC:ECRC.....        | 2345 |
| SEARch:TRIGger:PCIE:ERRC:INVP.....        | 2345 |
| SEARch:TRIGger:PCIE:ERRC:LCRC.....        | 2345 |
| SEARch:TRIGger:PCIE:OSET:COMP.....        | 2346 |
| SEARch:TRIGger:PCIE:OSET:EIDE.....        | 2346 |
| SEARch:TRIGger:PCIE:OSET:EIDL.....        | 2346 |
| SEARch:TRIGger:PCIE:OSET:FTS.....         | 2346 |
| SEARch:TRIGger:PCIE:OSET:SKIP.....        | 2347 |
| SEARch:TRIGger:PCIE:OSET:TSOne.....       | 2347 |
| SEARch:TRIGger:PCIE:OSET:TSTWo.....       | 2347 |
| SEARch:TRIGger:PCIE:TLP:ADRT.....         | 2347 |
| SEARch:TRIGger:PCIE:TLP:CFGT.....         | 2348 |
| SEARch:TRIGger:PCIE:TLP:CPID.....         | 2348 |
| SEARch:TRIGger:PCIE:TLP:CPLS.....         | 2348 |
| SEARch:TRIGger:PCIE:TLP:DEID.....         | 2348 |
| SEARch:TRIGger:PCIE:TLP:MERW.....         | 2349 |
| SEARch:TRIGger:PCIE:TLP:MSGC.....         | 2349 |
| SEARch:TRIGger:PCIE:TLP:MSGR.....         | 2349 |
| SEARch:TRIGger:PCIE:TLP:ORDE.....         | 2349 |
| SEARch:TRIGger:PCIE:TLP:REID.....         | 2350 |
| SEARch:TRIGger:PCIE:TLP:SNOO.....         | 2350 |
| SEARch:TRIGger:PCIE:TLP:SNUM.....         | 2350 |
| SEARch:TRIGger:PCIE:TLP:TCHN.....         | 2350 |
| SEARch:TRIGger:PCIE:TLP:TYPE.....         | 2351 |
| SEARch:TRIGger:PCIE:TYPE.....             | 2351 |
| SEARch:TRIGger:RFFE:ADDRes:CONDition..... | 2035 |
| SEARch:TRIGger:RFFE:ADDRes:MAX.....       | 2036 |
| SEARch:TRIGger:RFFE:ADDRes:MIN.....       | 2036 |
| SEARch:TRIGger:RFFE:BCOunt:CONDition..... | 2035 |
| SEARch:TRIGger:RFFE:BCOunt:MAX.....       | 2036 |
| SEARch:TRIGger:RFFE:BCOunt:MIN.....       | 2036 |
| SEARch:TRIGger:RFFE:DATA:DCON.....        | 2035 |

|                                          |      |
|------------------------------------------|------|
| SEARch:TRIGger:RFFE:DATA:DMAX.....       | 2036 |
| SEARch:TRIGger:RFFE:DATA:DMIN.....       | 2036 |
| SEARch:TRIGger:RFFE:DATA:ICONdition..... | 2035 |
| SEARch:TRIGger:RFFE:DATA:IMAX.....       | 2036 |
| SEARch:TRIGger:RFFE:DATA:IMIN.....       | 2036 |
| SEARch:TRIGger:RFFE:ERRor:GAP.....       | 2038 |
| SEARch:TRIGger:RFFE:ERRor:LENGth.....    | 2037 |
| SEARch:TRIGger:RFFE:ERRor:PARity.....    | 2037 |
| SEARch:TRIGger:RFFE:ERRor:SSC.....       | 2038 |
| SEARch:TRIGger:RFFE:ERRor:VERsion.....   | 2038 |
| SEARch:TRIGger:RFFE:INTerrupt.....       | 2037 |
| SEARch:TRIGger:RFFE:SADD:CONdition.....  | 2035 |
| SEARch:TRIGger:RFFE:SADD:MAX.....        | 2036 |
| SEARch:TRIGger:RFFE:SADD:MIN.....        | 2036 |
| SEARch:TRIGger:RFFE:TYPE.....            | 2033 |
| SEARch:TRIGger:RUNT:ACOPy.....           | 1605 |
| SEARch:TRIGger:RUNT:DELta.....           | 1609 |
| SEARch:TRIGger:RUNT:POLarity.....        | 1609 |
| SEARch:TRIGger:RUNT:RANGe.....           | 1610 |
| SEARch:TRIGger:RUNT:WIDTh.....           | 1610 |
| SEARch:TRIGger:RUNT[:STATe].....         | 1604 |
| SEARch:TRIGger:SENT:CALibration.....     | 1999 |
| SEARch:TRIGger:SENT:CRCError.....        | 2006 |
| SEARch:TRIGger:SENT:ERRor.....           | 2000 |
| SEARch:TRIGger:SENT:FORMerror.....       | 2005 |
| SEARch:TRIGger:SENT:IRFLength.....       | 2005 |
| SEARch:TRIGger:SENT:PPERioderror.....    | 2005 |
| SEARch:TRIGger:SENT:PULSeerror.....      | 2005 |
| SEARch:TRIGger:SENT:SDCN.....            | 2004 |
| SEARch:TRIGger:SENT:SDMN.....            | 2004 |
| SEARch:TRIGger:SENT:SDMX.....            | 2004 |
| SEARch:TRIGger:SENT:SICN.....            | 2003 |
| SEARch:TRIGger:SENT:SIDType.....         | 2002 |
| SEARch:TRIGger:SENT:SIMN.....            | 2003 |
| SEARch:TRIGger:SENT:SIMX.....            | 2003 |
| SEARch:TRIGger:SENT:SMSG.....            | 1999 |
| SEARch:TRIGger:SENT:STATus.....          | 2001 |
| SEARch:TRIGger:SENT:STYPe.....           | 2002 |
| SEARch:TRIGger:SENT:TDCN.....            | 2001 |
| SEARch:TRIGger:SENT:TDMN.....            | 2001 |
| SEARch:TRIGger:SENT:TDMX.....            | 2002 |
| SEARch:TRIGger:SENT:TRANsmission.....    | 1999 |
| SEARch:TRIGger:SENT:TTYPE.....           | 2000 |
| SEARch:TRIGger:SETHold:ACOPy.....        | 1605 |
| SEARch:TRIGger:SETHold:CEdGe.....        | 1619 |
| SEARch:TRIGger:SETHold:CLEVel.....       | 1620 |
| SEARch:TRIGger:SETHold:CSourCe.....      | 1620 |
| SEARch:TRIGger:SETHold:HTIME.....        | 1620 |
| SEARch:TRIGger:SETHold:STIME.....        | 1621 |
| SEARch:TRIGger:SETHold[:STATe].....      | 1604 |

|                                             |      |
|---------------------------------------------|------|
| SEARch:TRIGger:SLEWrate:ACOPy.....          | 1605 |
| SEARch:TRIGger:SLEWrate:DELta.....          | 1611 |
| SEARch:TRIGger:SLEWrate:RANge.....          | 1612 |
| SEARch:TRIGger:SLEWrate:SLOPe.....          | 1612 |
| SEARch:TRIGger:SLEWrate:TIME.....           | 1613 |
| SEARch:TRIGger:SLEWrate[:STATe].....        | 1604 |
| SEARch:TRIGger:SPI:DPOPerator.....          | 1721 |
| SEARch:TRIGger:SPI:DPOStition.....          | 1721 |
| SEARch:TRIGger:SPI:DPTO.....                | 1722 |
| SEARch:TRIGger:SPI:FCONdition.....          | 1720 |
| SEARch:TRIGger:SPI:MISopattern.....         | 1721 |
| SEARch:TRIGger:SPI:MODE.....                | 1720 |
| SEARch:TRIGger:SPI:MOSipattern.....         | 1721 |
| SEARch:TRIGger:SPI:PALignment.....          | 1722 |
| SEARch:TRIGger:STATe:A:LOGic.....           | 1627 |
| SEARch:TRIGger:STATe:A[:ENABle].....        | 1627 |
| SEARch:TRIGger:STATe:AB:LOGic.....          | 1628 |
| SEARch:TRIGger:STATe:ABCD:LOGic.....        | 1628 |
| SEARch:TRIGger:STATe:ACOPy.....             | 1605 |
| SEARch:TRIGger:STATe:B:LOGic.....           | 1627 |
| SEARch:TRIGger:STATe:B[:ENABle].....        | 1627 |
| SEARch:TRIGger:STATe:C:LOGic.....           | 1627 |
| SEARch:TRIGger:STATe:C[:ENABle].....        | 1627 |
| SEARch:TRIGger:STATe:CD:LOGic.....          | 1628 |
| SEARch:TRIGger:STATe:CEDGe.....             | 1626 |
| SEARch:TRIGger:STATe:CLEVel.....            | 1626 |
| SEARch:TRIGger:STATe:CSource.....           | 1626 |
| SEARch:TRIGger:STATe:D:LOGic.....           | 1627 |
| SEARch:TRIGger:STATe:D[:ENABle].....        | 1627 |
| SEARch:TRIGger:STATe[:STATe].....           | 1604 |
| SEARch:TRIGger:SWIRe:CTYPE.....             | 2312 |
| SEARch:TRIGger:SWIRe:DATA:CONDiTion.....    | 2312 |
| SEARch:TRIGger:SWIRe:DATA:MAX.....          | 2313 |
| SEARch:TRIGger:SWIRe:DATA:MIN.....          | 2313 |
| SEARch:TRIGger:SWIRe:ERRor:ESC.....         | 2313 |
| SEARch:TRIGger:SWIRe:ERRor:PARity.....      | 2314 |
| SEARch:TRIGger:SWIRe:TIME:CONDiTion.....    | 2314 |
| SEARch:TRIGger:SWIRe:TIME:MAX.....          | 2314 |
| SEARch:TRIGger:SWIRe:TIME:MIN.....          | 2315 |
| SEARch:TRIGger:SWIRe:TYPE.....              | 2315 |
| SEARch:TRIGger:TBTO:CRC:CONDiTion.....      | 1968 |
| SEARch:TRIGger:TBTO:CRC:MAX.....            | 1968 |
| SEARch:TRIGger:TBTO:CRC:MIN.....            | 1969 |
| SEARch:TRIGger:TBTO:DADdress:CONDiTion..... | 1969 |
| SEARch:TRIGger:TBTO:DADdress:MAX.....       | 1969 |
| SEARch:TRIGger:TBTO:DADdress:MIN.....       | 1970 |
| SEARch:TRIGger:TBTO:DATA:DCONDiTion.....    | 1970 |
| SEARch:TRIGger:TBTO:DATA:DMAX.....          | 1970 |
| SEARch:TRIGger:TBTO:DATA:DMIN.....          | 1971 |
| SEARch:TRIGger:TBTO:DATA:ICONDiTion.....    | 1971 |

|                                             |      |
|---------------------------------------------|------|
| SEARCh:TRIGGer:TBTO:DATA:IMAX.....          | 1971 |
| SEARCh:TRIGGer:TBTO:DATA:IMIN.....          | 1972 |
| SEARCh:TRIGGer:TBTO:ERRor:CRC.....          | 1972 |
| SEARCh:TRIGGer:TBTO:ERRor:FEC.....          | 1972 |
| SEARCh:TRIGGer:TBTO:ERRor:OOR.....          | 1972 |
| SEARCh:TRIGGer:TBTO:ERRor:ZERO.....         | 1973 |
| SEARCh:TRIGGer:TBTO:LENGth:CONDition.....   | 1973 |
| SEARCh:TRIGGer:TBTO:LENGth:MAX.....         | 1973 |
| SEARCh:TRIGGer:TBTO:LENGth:MIN.....         | 1974 |
| SEARCh:TRIGGer:TBTO:SADDress:CONDition..... | 1974 |
| SEARCh:TRIGGer:TBTO:SADDress:MAX.....       | 1974 |
| SEARCh:TRIGGer:TBTO:SADDress:MIN.....       | 1975 |
| SEARCh:TRIGGer:TBTO:TYPE.....               | 1975 |
| SEARCh:TRIGGer:TIMEout:ACOPY.....           | 1605 |
| SEARCh:TRIGGer:TIMEout:RANGe.....           | 1614 |
| SEARCh:TRIGGer:TIMEout:TIME.....            | 1614 |
| SEARCh:TRIGGer:TIMEout[:STATe].....         | 1604 |
| SEARCh:TRIGGer:USB:ACONdition.....          | 2226 |
| SEARCh:TRIGGer:USB:AMAX.....                | 2227 |
| SEARCh:TRIGGer:USB:AMIN.....                | 2227 |
| SEARCh:TRIGGer:USB:BITSterror.....          | 2227 |
| SEARCh:TRIGGer:USB:CRC5error.....           | 2228 |
| SEARCh:TRIGGer:USB:CRC16error.....          | 2228 |
| SEARCh:TRIGGer:USB:DATA.....                | 2228 |
| SEARCh:TRIGGer:USB:DCONdition.....          | 2229 |
| SEARCh:TRIGGer:USB:DPOperator.....          | 2229 |
| SEARCh:TRIGGer:USB:DPOStition.....          | 2229 |
| SEARCh:TRIGGer:USB:ECONdition.....          | 2229 |
| SEARCh:TRIGGer:USB:EMAX.....                | 2230 |
| SEARCh:TRIGGer:USB:EMIN.....                | 2230 |
| SEARCh:TRIGGer:USB:FCONdition.....          | 2230 |
| SEARCh:TRIGGer:USB:FMAX.....                | 2231 |
| SEARCh:TRIGGer:USB:FMIN.....                | 2231 |
| SEARCh:TRIGGer:USB:GLITCherror.....         | 2231 |
| SEARCh:TRIGGer:USB:HAND.....                | 2231 |
| SEARCh:TRIGGer:USB:PATT.....                | 2232 |
| SEARCh:TRIGGer:USB:PCONdition.....          | 2232 |
| SEARCh:TRIGGer:USB:PIDerror.....            | 2233 |
| SEARCh:TRIGGer:USB:PMAX.....                | 2233 |
| SEARCh:TRIGGer:USB:PMIN.....                | 2232 |
| SEARCh:TRIGGer:USB:SCONdition.....          | 2233 |
| SEARCh:TRIGGer:USB:SDATa.....               | 2234 |
| SEARCh:TRIGGer:USB:SERRor.....              | 2234 |
| SEARCh:TRIGGer:USB:SHANDshake.....          | 2234 |
| SEARCh:TRIGGer:USB:SMAX.....                | 2234 |
| SEARCh:TRIGGer:USB:SMIN.....                | 2234 |
| SEARCh:TRIGGer:USB:SPEC.....                | 2235 |
| SEARCh:TRIGGer:USB:SSOP.....                | 2235 |
| SEARCh:TRIGGer:USB:SSPE.....                | 2235 |
| SEARCh:TRIGGer:USB:STCO.....                | 2236 |

|                                                        |      |
|--------------------------------------------------------|------|
| SEARCh:TRIGger:USB:STOKen.....                         | 2236 |
| SEARCh:TRIGger:USB:TCONdition.....                     | 2236 |
| SEARCh:TRIGger:USB:TMAX.....                           | 2237 |
| SEARCh:TRIGger:USB:TMIN.....                           | 2237 |
| SEARCh:TRIGger:USB:TOKen.....                          | 2237 |
| SEARCh:TRIGger:USB:WADD.....                           | 2238 |
| SEARCh:TRIGger:USB:WEND.....                           | 2238 |
| SEARCh:TRIGger:USB:WETCheck.....                       | 2238 |
| SEARCh:TRIGger:USB:WFRN.....                           | 2238 |
| SEARCh:TRIGger:USB:WPAY.....                           | 2239 |
| SEARCh:TRIGger:USB:WPID.....                           | 2239 |
| SEARCh:TRIGger:USB:WPOR.....                           | 2239 |
| SEARCh:TRIGger:USB:WSEU.....                           | 2239 |
| SEARCh:TRIGger:USB:WSTC.....                           | 2240 |
| SEARCh:TRIGger:USBPd:BIT.....                          | 2292 |
| SEARCh:TRIGger:USBPd:DMAX.....                         | 2292 |
| SEARCh:TRIGger:USBPd:DMIN.....                         | 2293 |
| SEARCh:TRIGger:USBPd:DOPerator.....                    | 2293 |
| SEARCh:TRIGger:USBPd:ERENable.....                     | 2290 |
| SEARCh:TRIGger:USBPd:ERRor<m>:ENABle.....              | 2290 |
| SEARCh:TRIGger:USBPd:FIENable.....                     | 2291 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:ENABle.....              | 2291 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:BIT.....          | 2292 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:DMAX.....         | 2292 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:DMIN.....         | 2293 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:DOPerator.....    | 2293 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:ENABle.....       | 2291 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:IMAX.....         | 2294 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:IMIN.....         | 2294 |
| SEARCh:TRIGger:USBPd:FRAMe<m>:FLD<n>:IOPerator.....    | 2294 |
| SEARCh:TRIGger:USBPd:FRENable.....                     | 2291 |
| SEARCh:TRIGger:USBPd:IMAX.....                         | 2294 |
| SEARCh:TRIGger:USBPd:IMIN.....                         | 2294 |
| SEARCh:TRIGger:USBPd:IOPerator.....                    | 2294 |
| SEARCh:TRIGger:USBThree:BIT.....                       | 2269 |
| SEARCh:TRIGger:USBThree:DMAX.....                      | 2269 |
| SEARCh:TRIGger:USBThree:DMIN.....                      | 2269 |
| SEARCh:TRIGger:USBThree:DOPerator.....                 | 2268 |
| SEARCh:TRIGger:USBThree:ERENable.....                  | 2266 |
| SEARCh:TRIGger:USBThree:ERRor<m>:ENABle.....           | 2266 |
| SEARCh:TRIGger:USBThree:FIENable.....                  | 2267 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:ENABle.....           | 2267 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:BIT.....       | 2269 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:DMAX.....      | 2269 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:DMIN.....      | 2269 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:DOPerator..... | 2268 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:ENABle.....    | 2267 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:IMAX.....      | 2271 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:IMIN.....      | 2271 |
| SEARCh:TRIGger:USBThree:FRAMe<m>:FLD<n>:IOPerator..... | 2270 |



|                                                  |      |
|--------------------------------------------------|------|
| SEARCh:TRIGGer:USBThree:FRENAble.....            | 2267 |
| SEARCh:TRIGGer:USBThree:IMAX.....                | 2271 |
| SEARCh:TRIGGer:USBThree:IMIN.....                | 2271 |
| SEARCh:TRIGGer:USBThree:IOPerator.....           | 2270 |
| SEARCh:TRIGGer:WIDTh:ACOPy.....                  | 1605 |
| SEARCh:TRIGGer:WIDTh:DELTA.....                  | 1615 |
| SEARCh:TRIGGer:WIDTh:POLarity.....               | 1615 |
| SEARCh:TRIGGer:WIDTh:RANGe.....                  | 1615 |
| SEARCh:TRIGGer:WIDTh:WIDTh.....                  | 1616 |
| SEARCh:TRIGGer:WIDTh[:STATe].....                | 1604 |
| SEARCh:TRIGGer:WINDow:ACOPy.....                 | 1605 |
| SEARCh:TRIGGer:WINDow:DELTA.....                 | 1617 |
| SEARCh:TRIGGer:WINDow:RANGe.....                 | 1617 |
| SEARCh:TRIGGer:WINDow:TImerange.....             | 1618 |
| SEARCh:TRIGGer:WINDow:WIDTh.....                 | 1618 |
| SEARCh:TRIGGer:WINDow[:STATe].....               | 1604 |
| SENSe[:ROSCillator]:EXTErnal:FREQuency.....      | 1390 |
| SENSe[:ROSCillator]:SOURce.....                  | 1390 |
| SINgle.....                                      | 1326 |
| STATus:OPERation:CONDition?.....                 | 2565 |
| STATus:OPERation:ENABle.....                     | 2566 |
| STATus:OPERation[:EVENT]?.....                   | 2565 |
| STATus:QUEStionable:ADCState:CONDition?.....     | 2568 |
| STATus:QUEStionable:ADCState:ENABle.....         | 2569 |
| STATus:QUEStionable:ADCState:NTRansition.....    | 2570 |
| STATus:QUEStionable:ADCState:PTRansition.....    | 2570 |
| STATus:QUEStionable:ADCState[:EVENT]?.....       | 2569 |
| STATus:QUEStionable:COVerload:CONDition?.....    | 2568 |
| STATus:QUEStionable:COVerload:ENABle.....        | 2569 |
| STATus:QUEStionable:COVerload:NTRansition.....   | 2570 |
| STATus:QUEStionable:COVerload:PTRansition.....   | 2570 |
| STATus:QUEStionable:COVerload[:EVENT]?.....      | 2569 |
| STATus:QUEStionable:DEEMbedding:CONDition?.....  | 2569 |
| STATus:QUEStionable:DEEMbedding:ENABle.....      | 2569 |
| STATus:QUEStionable:DEEMbedding:NTRansition..... | 2570 |
| STATus:QUEStionable:DEEMbedding:PTRansition..... | 2570 |
| STATus:QUEStionable:DEEMbedding[:EVENT]?.....    | 2569 |
| STATus:QUEStionable:FREQuency:CONDition?.....    | 2569 |
| STATus:QUEStionable:FREQuency:ENABle.....        | 2569 |
| STATus:QUEStionable:FREQuency:EVENT?.....        | 2569 |
| STATus:QUEStionable:FREQuency:NTRansition.....   | 2570 |
| STATus:QUEStionable:FREQuency:PTRansition.....   | 2570 |
| STATus:QUEStionable:LAMPliTude:CONDition?.....   | 2569 |
| STATus:QUEStionable:LAMPliTude:ENABle.....       | 2569 |
| STATus:QUEStionable:LAMPliTude:NTRansition.....  | 2570 |
| STATus:QUEStionable:LAMPliTude:PTRansition.....  | 2570 |
| STATus:QUEStionable:LAMPliTude[:EVENT]?.....     | 2569 |
| STATus:QUEStionable:LIMit:CONDition?.....        | 2569 |
| STATus:QUEStionable:LIMit:ENABle.....            | 2569 |
| STATus:QUEStionable:LIMit:NTRansition.....       | 2570 |

|                                                  |      |
|--------------------------------------------------|------|
| STATus:QUESTionable:LIMit:PTRansition.....       | 2570 |
| STATus:QUESTionable:LIMit[:EVENT]?.....          | 2569 |
| STATus:QUESTionable:MARGin:CONDition?.....       | 2569 |
| STATus:QUESTionable:MARGin:ENABle.....           | 2569 |
| STATus:QUESTionable:MARGin:NTRansition.....      | 2570 |
| STATus:QUESTionable:MARGin:PTRansition.....      | 2570 |
| STATus:QUESTionable:MARGin[:EVENT]?.....         | 2569 |
| STATus:QUESTionable:MASK:CONDition?.....         | 2569 |
| STATus:QUESTionable:MASK:ENABle.....             | 2569 |
| STATus:QUESTionable:MASK:NTRansition.....        | 2570 |
| STATus:QUESTionable:MASK:PTRansition.....        | 2570 |
| STATus:QUESTionable:MASK[:EVENT]?.....           | 2570 |
| STATus:QUESTionable:PLL:CONDition?.....          | 2569 |
| STATus:QUESTionable:PLL:ENABle.....              | 2569 |
| STATus:QUESTionable:PLL:NTRansition.....         | 2570 |
| STATus:QUESTionable:PLL:PTRansition.....         | 2570 |
| STATus:QUESTionable:PLL[:EVENT]?.....            | 2569 |
| STATus:QUESTionable:TEMPerature:CONDition?.....  | 2568 |
| STATus:QUESTionable:TEMPerature:ENABle.....      | 2569 |
| STATus:QUESTionable:TEMPerature:NTRansition..... | 2570 |
| STATus:QUESTionable:TEMPerature:PTRansition..... | 2570 |
| STATus:QUESTionable:TEMPerature[:EVENT]?.....    | 2569 |
| STATus:QUESTionable:ZVCoverload:CONDition?.....  | 2569 |
| STATus:QUESTionable:ZVCoverload:ENABle.....      | 2569 |
| STATus:QUESTionable:ZVCoverload:NTRansition..... | 2570 |
| STATus:QUESTionable:ZVCoverload:PTRansition..... | 2570 |
| STATus:QUESTionable:ZVCoverload[:EVENT]?.....    | 2570 |
| STOP.....                                        | 1327 |
| SWTRigger:HISTory.....                           | 1438 |
| SYSTem:DATE.....                                 | 1297 |
| SYSTem:DEvice:ID?.....                           | 1297 |
| SYSTem:DFPRint.....                              | 1324 |
| SYSTem:DISPlay:MESSage:STATe.....                | 1296 |
| SYSTem:DISPlay:MESSage[:TEXT].....               | 1296 |
| SYSTem:DISPlay:UPDate.....                       | 1295 |
| SYSTem:KLOCK.....                                | 1295 |
| SYSTem:LANGuage.....                             | 1296 |
| SYSTem:PRESet.....                               | 1297 |
| SYSTem:TIME?.....                                | 1297 |
| TDRT:BW.....                                     | 2461 |
| TDRT:CALibration:OPEN:NAME.....                  | 2459 |
| TDRT:CALibration:OPEN[:EXECute].....             | 2459 |
| TDRT:CALibration:SAVE:NAME.....                  | 2461 |
| TDRT:CALibration:SAVE[:EXECute].....             | 2461 |
| TDRT:CALibration:USECaldat.....                  | 2461 |
| TDRT:DEFault.....                                | 2459 |
| TDRT:DOMain.....                                 | 2462 |
| TDRT:PERMittivity.....                           | 2462 |
| TDRT:PULSe:OUT.....                              | 2460 |
| TDRT:PULSe:REFerence.....                        | 2460 |

|                                            |      |
|--------------------------------------------|------|
| TDRT:SIGNal<m>:DATA:HEADer?                | 2463 |
| TDRT:SIGNal<m>:DATA:VALues?                | 2464 |
| TDRT:SIGNal<m>:OFFSet                      | 2463 |
| TDRT:SIGNal<m>:POSition                    | 2463 |
| TDRT:SIGNal<m>:SCALE                       | 2462 |
| TDRT:SIGNal<m>:STATe                       | 2462 |
| TDRT:SLENgth                               | 2460 |
| TDRT:TYPE                                  | 2460 |
| TIMEbase:DIVisions?                        | 1328 |
| TIMEbase:HORIZontal:POSition               | 1328 |
| TIMEbase:RACTime?                          | 1571 |
| TIMEbase:RANGe                             | 1328 |
| TIMEbase:REFerence                         | 1328 |
| TIMEbase:ROLL:ENABle                       | 1332 |
| TIMEbase:ROLL:MTIME                        | 1332 |
| TIMEbase:ROLL:STATe?                       | 1332 |
| TIMEbase:SCALE                             | 1327 |
| TRACe:REMote:MODE:FILE:DEXecution:DURation | 2574 |
| TRACe:REMote:MODE:FILE:ENABle              | 2573 |
| TRACe:REMote:MODE:FILE:FILTer              | 2573 |
| TRACe:REMote:MODE:FILE:FORMat              | 2572 |
| TRACe:REMote:MODE:FILE:FUNctions           | 2574 |
| TRACe:REMote:MODE:FILE:NAME                | 2572 |
| TRACe:REMote:MODE:FILE:PARSer              | 2574 |
| TRACe:REMote:MODE:FILE:RPC                 | 2574 |
| TRACe:REMote:MODE:FILE:SIZE                | 2572 |
| TRACe:REMote:MODE:FILE:STARtmode           | 2572 |
| TRACe:REMote:MODE:FILE:STOPmode            | 2573 |
| TRIGger<m>:ANEDge:COUPling                 | 1395 |
| TRIGger<m>:ANEDge:CUToff:HIGHPass          | 1396 |
| TRIGger<m>:ANEDge:CUToff:LOWPass           | 1396 |
| TRIGger<m>:ANEDge:FILTer                   | 1395 |
| TRIGger<m>:ANEDge:GND                      | 1397 |
| TRIGger<m>:ANEDge:SLOPe                    | 1397 |
| TRIGger<m>:ARINc:DATA:CONDition            | 1884 |
| TRIGger<m>:ARINc:DATA:MAX                  | 1885 |
| TRIGger<m>:ARINc:DATA:MIN                  | 1884 |
| TRIGger<m>:ARINc:ERRor:CODing              | 1885 |
| TRIGger<m>:ARINc:ERRor:PARity              | 1885 |
| TRIGger<m>:ARINc:LAbel:CONDition           | 1885 |
| TRIGger<m>:ARINc:LAbel:MAX                 | 1886 |
| TRIGger<m>:ARINc:LAbel:MIN                 | 1885 |
| TRIGger<m>:ARINc:MAXGap:BITS               | 1886 |
| TRIGger<m>:ARINc:MAXGap:SElect             | 1886 |
| TRIGger<m>:ARINc:MINGap:BITS               | 1886 |
| TRIGger<m>:ARINc:MINGap:SElect             | 1886 |
| TRIGger<m>:ARINc:SDI                       | 1887 |
| TRIGger<m>:ARINc:SSM                       | 1887 |
| TRIGger<m>:ARINc:TYPE                      | 1884 |
| TRIGger<m>:CAN:ACKerror                    | 1748 |

|                                                         |      |
|---------------------------------------------------------|------|
| TRIGger<m>:CAN:BITSterror.....                          | 1748 |
| TRIGger<m>:CAN:BORDER.....                              | 1746 |
| TRIGger<m>:CAN:CRCErrror.....                           | 1748 |
| TRIGger<m>:CAN:DCondition.....                          | 1745 |
| TRIGger<m>:CAN:DLC.....                                 | 1746 |
| TRIGger<m>:CAN:DLCCCondition.....                       | 1746 |
| TRIGger<m>:CAN:DMAX.....                                | 1746 |
| TRIGger<m>:CAN:DMIN.....                                | 1745 |
| TRIGger<m>:CAN:FDATa:BRS.....                           | 1745 |
| TRIGger<m>:CAN:FDATa:DPOPerator.....                    | 1747 |
| TRIGger<m>:CAN:FDATa:DPOStion.....                      | 1747 |
| TRIGger<m>:CAN:FDATa:DPTO.....                          | 1748 |
| TRIGger<m>:CAN:FDATa:ESI.....                           | 1745 |
| TRIGger<m>:CAN:FDATa:FDF.....                           | 1744 |
| TRIGger<m>:CAN:FDATa:SCERror.....                       | 1749 |
| TRIGger<m>:CAN:FDATa:STANdard.....                      | 1743 |
| TRIGger<m>:CAN:FORMError.....                           | 1748 |
| TRIGger<m>:CAN:FTYPE.....                               | 1743 |
| TRIGger<m>:CAN:ICONdition.....                          | 1744 |
| TRIGger<m>:CAN:IMAX.....                                | 1744 |
| TRIGger<m>:CAN:IMIN.....                                | 1744 |
| TRIGger<m>:CAN:ITYPe.....                               | 1743 |
| TRIGger<m>:CAN:NDBYtes?.....                            | 1747 |
| TRIGger<m>:CAN:SYMBolic:DMAX.....                       | 1774 |
| TRIGger<m>:CAN:SYMBolic:DMIN.....                       | 1774 |
| TRIGger<m>:CAN:SYMBolic:MSGValue.....                   | 1773 |
| TRIGger<m>:CAN:SYMBolic:SGEValue.....                   | 1774 |
| TRIGger<m>:CAN:SYMBolic:SIGValue.....                   | 1773 |
| TRIGger<m>:CAN:SYMBolic:TSIGnals.....                   | 1773 |
| TRIGger<m>:CAN:TYPE.....                                | 1742 |
| TRIGger<m>:CMSB:ADVanced:BIT.....                       | 2150 |
| TRIGger<m>:CMSB:ADVanced:DMAX.....                      | 2150 |
| TRIGger<m>:CMSB:ADVanced:DMIN.....                      | 2151 |
| TRIGger<m>:CMSB:ADVanced:DOPerator.....                 | 2151 |
| TRIGger<m>:CMSB:ADVanced:ERENable.....                  | 2151 |
| TRIGger<m>:CMSB:ADVanced:ERRor<n>:ENABle.....           | 2151 |
| TRIGger<m>:CMSB:ADVanced:FIENable.....                  | 2149 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:ENABle.....           | 2149 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:BIT.....       | 2150 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:DMAX.....      | 2150 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:DMIN.....      | 2151 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:DOPerator..... | 2151 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:ENABle.....    | 2149 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:IMAX.....      | 2152 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:IMIN.....      | 2152 |
| TRIGger<m>:CMSB:ADVanced:FRAMe<n>:FLD<o>:IOPerator..... | 2152 |
| TRIGger<m>:CMSB:ADVanced:FRENable.....                  | 2149 |
| TRIGger<m>:CMSB:ADVanced:IMAX.....                      | 2152 |
| TRIGger<m>:CMSB:ADVanced:IMIN.....                      | 2152 |
| TRIGger<m>:CMSB:ADVanced:IOPerator.....                 | 2152 |

|                                           |      |
|-------------------------------------------|------|
| TRIGger<m>:CMSB:ICONdition.....           | 2148 |
| TRIGger<m>:CMSB:IMAX.....                 | 2149 |
| TRIGger<m>:CMSB:IMIN.....                 | 2148 |
| TRIGger<m>:CMSB:NRZ:WRDLength.....        | 2149 |
| TRIGger<m>:CMSB:PATtern.....              | 2148 |
| TRIGger<m>:CMSB:TYPE.....                 | 2147 |
| TRIGger<m>:COUpling.....                  | 1385 |
| TRIGger<m>:CXPI:CT.....                   | 2362 |
| TRIGger<m>:CXPI:DATA:DCONdition.....      | 2362 |
| TRIGger<m>:CXPI:DATA:DMAX.....            | 2363 |
| TRIGger<m>:CXPI:DATA:DMIN.....            | 2363 |
| TRIGger<m>:CXPI:DATA:ICONdition.....      | 2363 |
| TRIGger<m>:CXPI:DATA:IMAX.....            | 2364 |
| TRIGger<m>:CXPI:DATA:IMIN.....            | 2364 |
| TRIGger<m>:CXPI:DEXTension:CONditiOn..... | 2364 |
| TRIGger<m>:CXPI:DEXTension:MAX.....       | 2365 |
| TRIGger<m>:CXPI:DEXTension:MIN.....       | 2365 |
| TRIGger<m>:CXPI:DLC:CONditiOn.....        | 2365 |
| TRIGger<m>:CXPI:DLC:MAX.....              | 2365 |
| TRIGger<m>:CXPI:DLC:MIN.....              | 2366 |
| TRIGger<m>:CXPI:ERRor:CRC.....            | 2366 |
| TRIGger<m>:CXPI:ERRor:DLC.....            | 2366 |
| TRIGger<m>:CXPI:ERRor:IBS.....            | 2366 |
| TRIGger<m>:CXPI:ERRor:IFS.....            | 2367 |
| TRIGger<m>:CXPI:ERRor:LENGth.....         | 2367 |
| TRIGger<m>:CXPI:ERRor:PARity.....         | 2367 |
| TRIGger<m>:CXPI:ERRor:UART.....           | 2367 |
| TRIGger<m>:CXPI:FID:CONditiOn.....        | 2368 |
| TRIGger<m>:CXPI:FID:MAX.....              | 2368 |
| TRIGger<m>:CXPI:FID:MIN.....              | 2368 |
| TRIGger<m>:CXPI:Nm.....                   | 2368 |
| TRIGger<m>:CXPI:TYPE.....                 | 2369 |
| TRIGger<m>:DPHY:DATA:CONditiOn.....       | 2049 |
| TRIGger<m>:DPHY:DATA:MAX.....             | 2050 |
| TRIGger<m>:DPHY:DATA:MIN.....             | 2050 |
| TRIGger<m>:DPHY:DIDX:CONditiOn.....       | 2050 |
| TRIGger<m>:DPHY:DIDX:MAX.....             | 2050 |
| TRIGger<m>:DPHY:DIDX:MIN.....             | 2051 |
| TRIGger<m>:DPHY:DTYPE:CONditiOn.....      | 2051 |
| TRIGger<m>:DPHY:DTYPE:MAX.....            | 2051 |
| TRIGger<m>:DPHY:DTYPE:MIN.....            | 2051 |
| TRIGger<m>:DPHY:ESCMode:CONditiOn.....    | 2052 |
| TRIGger<m>:DPHY:ESCMode:MAX.....          | 2052 |
| TRIGger<m>:DPHY:ESCMode:MIN.....          | 2052 |
| TRIGger<m>:DPHY:ESDTa:CONditiOn.....      | 2052 |
| TRIGger<m>:DPHY:ESDTa:MAX.....            | 2053 |
| TRIGger<m>:DPHY:ESDTa:MIN.....            | 2053 |
| TRIGger<m>:DPHY:ESIndex:CONditiOn.....    | 2053 |
| TRIGger<m>:DPHY:ESIndex:MAX.....          | 2054 |
| TRIGger<m>:DPHY:ESIndex:MIN.....          | 2054 |

|                                           |      |
|-------------------------------------------|------|
| TRIGger<m>:DPHY:HSVC.....                 | 2054 |
| TRIGger<m>:DPHY:TYPE.....                 | 2049 |
| TRIGger<m>:DPHY:WCOunt:CONditiOn.....     | 2054 |
| TRIGger<m>:DPHY:WCOunt:MAX.....           | 2054 |
| TRIGger<m>:DPHY:WCOunt:MIN.....           | 2055 |
| TRIGger<m>:EBTB:DISParityerr.....         | 2179 |
| TRIGger<m>:EBTB:DX.....                   | 2179 |
| TRIGger<m>:EBTB:DY.....                   | 2180 |
| TRIGger<m>:EBTB:EBPA.....                 | 2180 |
| TRIGger<m>:EBTB:GLITCherror.....          | 2180 |
| TRIGger<m>:EBTB:SSType.....               | 2180 |
| TRIGger<m>:EBTB:SType.....                | 2181 |
| TRIGger<m>:EBTB:SYME.....                 | 2180 |
| TRIGger<m>:EBTB:SYMType.....              | 2181 |
| TRIGger<m>:EBTB:TBPA.....                 | 2181 |
| TRIGger<m>:EBTB:UNK.....                  | 2181 |
| TRIGger<m>:ECOupling.....                 | 1432 |
| TRIGger<m>:EDGE:SLOPe.....                | 1395 |
| TRIGger<m>:ETHernet:ERRor:CRC.....        | 1900 |
| TRIGger<m>:ETHernet:ERRor:LENGth.....     | 1901 |
| TRIGger<m>:ETHernet:ERRor:PREamble.....   | 1901 |
| TRIGger<m>:ETHernet:FRAME:CCONditiOn..... | 1901 |
| TRIGger<m>:ETHernet:FRAME:CMAX.....       | 1902 |
| TRIGger<m>:ETHernet:FRAME:CMIN.....       | 1902 |
| TRIGger<m>:ETHernet:FRAME:DCONditiOn..... | 1902 |
| TRIGger<m>:ETHernet:FRAME:DMAX.....       | 1902 |
| TRIGger<m>:ETHernet:FRAME:DMIN.....       | 1903 |
| TRIGger<m>:ETHernet:FRAME:SCONditiOn..... | 1903 |
| TRIGger<m>:ETHernet:FRAME:SMAX.....       | 1903 |
| TRIGger<m>:ETHernet:FRAME:SMIN.....       | 1903 |
| TRIGger<m>:ETHernet:FRAME:TCONditiOn..... | 1904 |
| TRIGger<m>:ETHernet:FRAME:TMAX.....       | 1904 |
| TRIGger<m>:ETHernet:FRAME:TMIN.....       | 1904 |
| TRIGger<m>:ETHernet:PATtern.....          | 1900 |
| TRIGger<m>:ETHernet:TYPE.....             | 1900 |
| TRIGger<m>:EVENT.....                     | 1393 |
| TRIGger<m>:EVENT.....                     | 1432 |
| TRIGger<m>:EVENT:BEEP.....                | 1436 |
| TRIGger<m>:EVENT:PRINT.....               | 1437 |
| TRIGger<m>:EVENT:RUNexec.....             | 1437 |
| TRIGger<m>:EVENT:WFMSave.....             | 1437 |
| TRIGger<m>:FINDlevel.....                 | 1394 |
| TRIGger<m>:FLXRay:BSSerror.....           | 1818 |
| TRIGger<m>:FLXRay:CENable.....            | 1815 |
| TRIGger<m>:FLXRay:CMAX.....               | 1816 |
| TRIGger<m>:FLXRay:CMIN.....               | 1815 |
| TRIGger<m>:FLXRay:CSTep.....              | 1816 |
| TRIGger<m>:FLXRay:DCONditiOn.....         | 1817 |
| TRIGger<m>:FLXRay:DMAX.....               | 1817 |
| TRIGger<m>:FLXRay:DMIN.....               | 1817 |

|                                         |      |
|-----------------------------------------|------|
| TRIGger<m>:FLXRay:DPOperator.....       | 1816 |
| TRIGger<m>:FLXRay:DPOStition.....       | 1816 |
| TRIGger<m>:FLXRay:DPTO.....             | 1817 |
| TRIGger<m>:FLXRay:FCONdition.....       | 1813 |
| TRIGger<m>:FLXRay:FESerror.....         | 1818 |
| TRIGger<m>:FLXRay:FMAX.....             | 1814 |
| TRIGger<m>:FLXRay:FMIN.....             | 1814 |
| TRIGger<m>:FLXRay:FSSerror.....         | 1818 |
| TRIGger<m>:FLXRay:HCRCErrror.....       | 1819 |
| TRIGger<m>:FLXRay:NUFRame.....          | 1813 |
| TRIGger<m>:FLXRay:PCONdition.....       | 1814 |
| TRIGger<m>:FLXRay:PCRCerror.....        | 1819 |
| TRIGger<m>:FLXRay:PLPReamble.....       | 1813 |
| TRIGger<m>:FLXRay:PMAX.....             | 1815 |
| TRIGger<m>:FLXRay:PMIN.....             | 1815 |
| TRIGger<m>:FLXRay:STFRame.....          | 1813 |
| TRIGger<m>:FLXRay:SYFRame.....          | 1813 |
| TRIGger<m>:FLXRay:SYMBOL.....           | 1818 |
| TRIGger<m>:FLXRay:TYPE.....             | 1812 |
| TRIGger<m>:FORCE.....                   | 1435 |
| TRIGger<m>:GLITCh:POLarity.....         | 1398 |
| TRIGger<m>:GLITCh:RANGe.....            | 1398 |
| TRIGger<m>:GLITCh:WIDTh.....            | 1398 |
| TRIGger<m>:HBTO:CRC:CONditiOn.....      | 1928 |
| TRIGger<m>:HBTO:CRC:MAX.....            | 1928 |
| TRIGger<m>:HBTO:CRC:MIN.....            | 1928 |
| TRIGger<m>:HBTO:DADdResS:CONditiOn..... | 1925 |
| TRIGger<m>:HBTO:DADdResS:MAX.....       | 1926 |
| TRIGger<m>:HBTO:DADdResS:MIN.....       | 1925 |
| TRIGger<m>:HBTO:DATA:DCONditiOn.....    | 1929 |
| TRIGger<m>:HBTO:DATA:DMAX.....          | 1929 |
| TRIGger<m>:HBTO:DATA:DMIN.....          | 1929 |
| TRIGger<m>:HBTO:DATA:ICONditiOn.....    | 1930 |
| TRIGger<m>:HBTO:DATA:IMAX.....          | 1930 |
| TRIGger<m>:HBTO:DATA:IMIN.....          | 1930 |
| TRIGger<m>:HBTO:ERRor:CRC.....          | 1931 |
| TRIGger<m>:HBTO:ERRor:PREamble.....     | 1930 |
| TRIGger<m>:HBTO:ERRor:SFD.....          | 1931 |
| TRIGger<m>:HBTO:LENGth:CONditiOn.....   | 1927 |
| TRIGger<m>:HBTO:LENGth:MAX.....         | 1927 |
| TRIGger<m>:HBTO:LENGth:MIN.....         | 1927 |
| TRIGger<m>:HBTO:SADdResS:CONditiOn..... | 1926 |
| TRIGger<m>:HBTO:SADdResS:MAX.....       | 1927 |
| TRIGger<m>:HBTO:SADdResS:MIN.....       | 1926 |
| TRIGger<m>:HBTO:TYPE.....               | 1924 |
| TRIGger<m>:HOLDoff:AUTotime?.....       | 1428 |
| TRIGger<m>:HOLDoff:EVENTs.....          | 1427 |
| TRIGger<m>:HOLDoff:MAX.....             | 1428 |
| TRIGger<m>:HOLDoff:MIN.....             | 1427 |
| TRIGger<m>:HOLDoff:MODE.....            | 1425 |

|                                            |      |
|--------------------------------------------|------|
| TRIGger<m>:HOLDoff:SCALing.....            | 1428 |
| TRIGger<m>:HOLDoff:TIME.....               | 1426 |
| TRIGger<m>:I2C:ACCEss.....                 | 1678 |
| TRIGger<m>:I2C:ACONdition.....             | 1680 |
| TRIGger<m>:I2C:ADDReSS.....                | 1680 |
| TRIGger<m>:I2C:ADDTTo.....                 | 1680 |
| TRIGger<m>:I2C:ADNack.....                 | 1679 |
| TRIGger<m>:I2C:ADOR<n>:ADRTYPE.....        | 1681 |
| TRIGger<m>:I2C:ADOR<n>:ENABLe.....         | 1680 |
| TRIGger<m>:I2C:ADOR<n>:RWBit.....          | 1681 |
| TRIGger<m>:I2C:ADOR<n>[:VALue].....        | 1681 |
| TRIGger<m>:I2C:AMODE.....                  | 1679 |
| TRIGger<m>:I2C:DCONdition.....             | 1682 |
| TRIGger<m>:I2C:DMAX.....                   | 1683 |
| TRIGger<m>:I2C:DMIN.....                   | 1683 |
| TRIGger<m>:I2C:DPOPerator.....             | 1682 |
| TRIGger<m>:I2C:DPOStion.....               | 1682 |
| TRIGger<m>:I2C:DPTO.....                   | 1682 |
| TRIGger<m>:I2C:DRNack.....                 | 1679 |
| TRIGger<m>:I2C:DWNack.....                 | 1679 |
| TRIGger<m>:I2C:MODE.....                   | 1678 |
| TRIGger<m>:I2S:SOWords.....                | 1849 |
| TRIGger<m>:I2S:TCONdition<n>:CHANnel.....  | 1847 |
| TRIGger<m>:I2S:TCONdition<n>:CONDtion..... | 1847 |
| TRIGger<m>:I2S:TCONdition<n>:DMAX.....     | 1848 |
| TRIGger<m>:I2S:TCONdition<n>:DMIN.....     | 1848 |
| TRIGger<m>:I2S:TYPE.....                   | 1846 |
| TRIGger<m>:I2S:WSSLOpe.....                | 1849 |
| TRIGger<m>:INTerval:DELTA.....             | 1407 |
| TRIGger<m>:INTerval:RANGe.....             | 1406 |
| TRIGger<m>:INTerval:SLOPe.....             | 1406 |
| TRIGger<m>:INTerval:WIDTh.....             | 1407 |
| TRIGger<m>:LEVel<n>:NOISe:ABSolute.....    | 1430 |
| TRIGger<m>:LEVel<n>:NOISe:MODE.....        | 1430 |
| TRIGger<m>:LEVel<n>:NOISe:PERDivision..... | 1431 |
| TRIGger<m>:LEVel<n>:NOISe:RELative.....    | 1431 |
| TRIGger<m>:LEVel<n>:NOISe[:STATe].....     | 1429 |
| TRIGger<m>:LEVel<n>:RUNT:LOWer.....        | 1401 |
| TRIGger<m>:LEVel<n>:RUNT:UPPer.....        | 1401 |
| TRIGger<m>:LEVel<n>:SLEW:LOWer.....        | 1408 |
| TRIGger<m>:LEVel<n>:SLEW:UPPer.....        | 1408 |
| TRIGger<m>:LEVel<n>:WINDow:LOWer.....      | 1403 |
| TRIGger<m>:LEVel<n>:WINDow:UPPer.....      | 1403 |
| TRIGger<m>:LEVel<n>[:VALue].....           | 1393 |
| TRIGger<m>:LEVel<n>[:VALue].....           | 2511 |
| TRIGger<m>:LIN:BORDER.....                 | 1783 |
| TRIGger<m>:LIN:CHKSError.....              | 1785 |
| TRIGger<m>:LIN:CRCDatalen.....             | 1785 |
| TRIGger<m>:LIN:DCONdition.....             | 1782 |
| TRIGger<m>:LIN:DLECondition.....           | 1783 |



|                                           |      |
|-------------------------------------------|------|
| TRIGger<m>:LIN:DLENgth.....               | 1783 |
| TRIGger<m>:LIN:DMAX.....                  | 1782 |
| TRIGger<m>:LIN:DMIN.....                  | 1782 |
| TRIGger<m>:LIN:ERRPattern.....            | 1785 |
| TRIGger<m>:LIN:ICONdition.....            | 1781 |
| TRIGger<m>:LIN:IDOR<n>:ENABle.....        | 1784 |
| TRIGger<m>:LIN:IDOR<n>[:VALue].....       | 1784 |
| TRIGger<m>:LIN:IMAX.....                  | 1782 |
| TRIGger<m>:LIN:IMIN.....                  | 1782 |
| TRIGger<m>:LIN:IPERror.....               | 1784 |
| TRIGger<m>:LIN:STANdard.....              | 1786 |
| TRIGger<m>:LIN:SYERror.....               | 1784 |
| TRIGger<m>:LIN:TYPE.....                  | 1780 |
| TRIGger<m>:MDIO:DATA.....                 | 2194 |
| TRIGger<m>:MDIO:FRAMetype.....            | 2193 |
| TRIGger<m>:MDIO:PHYS.....                 | 2194 |
| TRIGger<m>:MDIO:REGL.....                 | 2194 |
| TRIGger<m>:MDIO:ST.....                   | 2193 |
| TRIGger<m>:MDIO:TYPE.....                 | 2192 |
| TRIGger<m>:MILStd:CDST:ICONdition.....    | 1862 |
| TRIGger<m>:MILStd:CDST:IMAX.....          | 1862 |
| TRIGger<m>:MILStd:CDST:IMIN.....          | 1862 |
| TRIGger<m>:MILStd:CDST:RCONdition.....    | 1859 |
| TRIGger<m>:MILStd:CDST:RMAX.....          | 1859 |
| TRIGger<m>:MILStd:CDST:RMIN.....          | 1859 |
| TRIGger<m>:MILStd:CMD:CCONdition.....     | 1860 |
| TRIGger<m>:MILStd:CMD:CMAX.....           | 1860 |
| TRIGger<m>:MILStd:CMD:CMIN.....           | 1860 |
| TRIGger<m>:MILStd:CMD:RCONdition.....     | 1859 |
| TRIGger<m>:MILStd:CMD:RMAX.....           | 1859 |
| TRIGger<m>:MILStd:CMD:RMIN.....           | 1859 |
| TRIGger<m>:MILStd:CMD:SCONdition.....     | 1860 |
| TRIGger<m>:MILStd:CMD:SMAX.....           | 1861 |
| TRIGger<m>:MILStd:CMD:SMIN.....           | 1861 |
| TRIGger<m>:MILStd:CMD:TR.....             | 1861 |
| TRIGger<m>:MILStd:DATA:DCONdition.....    | 1862 |
| TRIGger<m>:MILStd:DATA:DMAX.....          | 1863 |
| TRIGger<m>:MILStd:DATA:DMIN.....          | 1863 |
| TRIGger<m>:MILStd:DATA:ICONdition.....    | 1863 |
| TRIGger<m>:MILStd:DATA:IMAX.....          | 1863 |
| TRIGger<m>:MILStd:DATA:IMIN.....          | 1864 |
| TRIGger<m>:MILStd:DATA:RCONdition.....    | 1859 |
| TRIGger<m>:MILStd:DATA:RMAX.....          | 1859 |
| TRIGger<m>:MILStd:DATA:RMIN.....          | 1859 |
| TRIGger<m>:MILStd:ERRor:MANChester.....   | 1864 |
| TRIGger<m>:MILStd:ERRor:PARity.....       | 1864 |
| TRIGger<m>:MILStd:ERRor:SYNC.....         | 1864 |
| TRIGger<m>:MILStd:MAXResponse:BITS.....   | 1864 |
| TRIGger<m>:MILStd:MAXResponse:SElect..... | 1865 |
| TRIGger<m>:MILStd:MINGap:BITS.....        | 1865 |

|                                          |      |
|------------------------------------------|------|
| TRIGger<m>:MILStd:MINGap:SElect.....     | 1865 |
| TRIGger<m>:MILStd:STATus:BCReceived..... | 1865 |
| TRIGger<m>:MILStd:STATus:BUSY.....       | 1866 |
| TRIGger<m>:MILStd:STATus:DBCaccept.....  | 1866 |
| TRIGger<m>:MILStd:STATus:INSTrument..... | 1866 |
| TRIGger<m>:MILStd:STATus:MERRor.....     | 1866 |
| TRIGger<m>:MILStd:STATus:SREQuest.....   | 1866 |
| TRIGger<m>:MILStd:STATus:SUBSystem.....  | 1867 |
| TRIGger<m>:MILStd:STATus:TERMinal.....   | 1867 |
| TRIGger<m>:MILStd:TPSPecifier.....       | 1867 |
| TRIGger<m>:MILStd:TYPE.....              | 1858 |
| TRIGger<m>:MODE.....                     | 1434 |
| TRIGger<m>:MPHY:CRC:CONDition.....       | 2086 |
| TRIGger<m>:MPHY:CRC:MAX.....             | 2087 |
| TRIGger<m>:MPHY:CRC:MIN.....             | 2087 |
| TRIGger<m>:MPHY:CREDit:CONDition.....    | 2088 |
| TRIGger<m>:MPHY:CREDit:MAX.....          | 2089 |
| TRIGger<m>:MPHY:CREDit:MIN.....          | 2089 |
| TRIGger<m>:MPHY:CREQ.....                | 2087 |
| TRIGger<m>:MPHY:DATA:DCON.....           | 2084 |
| TRIGger<m>:MPHY:DATA:DMAX.....           | 2084 |
| TRIGger<m>:MPHY:DATA:DMIN.....           | 2084 |
| TRIGger<m>:MPHY:DATA:ICONdition.....     | 2085 |
| TRIGger<m>:MPHY:DATA:IMAX.....           | 2085 |
| TRIGger<m>:MPHY:DATA:IMIN.....           | 2085 |
| TRIGger<m>:MPHY:ERRor:LCMD.....          | 2091 |
| TRIGger<m>:MPHY:ERRor:LENGth.....        | 2091 |
| TRIGger<m>:MPHY:ERRor:REServed.....      | 2092 |
| TRIGger<m>:MPHY:ERRor:SYMBol.....        | 2092 |
| TRIGger<m>:MPHY:ERRor:UNKNown.....       | 2092 |
| TRIGger<m>:MPHY:FSNumber:CONDition.....  | 2085 |
| TRIGger<m>:MPHY:FSNumber:MAX.....        | 2086 |
| TRIGger<m>:MPHY:FSNumber:MIN.....        | 2086 |
| TRIGger<m>:MPHY:LCCType.....             | 2079 |
| TRIGger<m>:MPHY:LWFour:CONDition.....    | 2082 |
| TRIGger<m>:MPHY:LWFour:MAX.....          | 2083 |
| TRIGger<m>:MPHY:LWFour:MIN.....          | 2083 |
| TRIGger<m>:MPHY:LWONe:CONDition.....     | 2079 |
| TRIGger<m>:MPHY:LWONe:MAX.....           | 2080 |
| TRIGger<m>:MPHY:LWONe:MIN.....           | 2080 |
| TRIGger<m>:MPHY:LWTHree:CONDition.....   | 2081 |
| TRIGger<m>:MPHY:LWTHree:MAX.....         | 2082 |
| TRIGger<m>:MPHY:LWTHree:MIN.....         | 2082 |
| TRIGger<m>:MPHY:LWTWo:CONDition.....     | 2080 |
| TRIGger<m>:MPHY:LWTWo:MAX.....           | 2081 |
| TRIGger<m>:MPHY:LWTWo:MIN.....           | 2081 |
| TRIGger<m>:MPHY:PBEGin:CONDition.....    | 2089 |
| TRIGger<m>:MPHY:PBEGin:MAX.....          | 2090 |
| TRIGger<m>:MPHY:PBEGin:MIN.....          | 2089 |
| TRIGger<m>:MPHY:PFID:CONDition.....      | 2090 |

|                                                      |      |
|------------------------------------------------------|------|
| TRIGger<m>:MPHY:PFID:MAX.....                        | 2091 |
| TRIGger<m>:MPHY:PFID:MIN.....                        | 2090 |
| TRIGger<m>:MPHY:PRPLength.....                       | 2091 |
| TRIGger<m>:MPHY:RREQ.....                            | 2088 |
| TRIGger<m>:MPHY:SSIC:BIT.....                        | 2122 |
| TRIGger<m>:MPHY:SSIC:DMAX.....                       | 2123 |
| TRIGger<m>:MPHY:SSIC:DMIN.....                       | 2123 |
| TRIGger<m>:MPHY:SSIC:DOPerator.....                  | 2123 |
| TRIGger<m>:MPHY:SSIC:ERENable.....                   | 2121 |
| TRIGger<m>:MPHY:SSIC:ERRor<n>:ENABle.....            | 2121 |
| TRIGger<m>:MPHY:SSIC:FIENable.....                   | 2122 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:ENABle.....            | 2121 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:BIT.....        | 2122 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:DMAX.....       | 2123 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:DMIN.....       | 2123 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:DOPerator.....  | 2123 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:ENABle.....     | 2122 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:IMAX.....       | 2124 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:IMIN.....       | 2124 |
| TRIGger<m>:MPHY:SSIC:FRAMe<n>:FLD<o>:IOPerator.....  | 2125 |
| TRIGger<m>:MPHY:SSIC:FRENable.....                   | 2121 |
| TRIGger<m>:MPHY:SSIC:IMAX.....                       | 2124 |
| TRIGger<m>:MPHY:SSIC:IMIN.....                       | 2124 |
| TRIGger<m>:MPHY:SSIC:IOPerator.....                  | 2125 |
| TRIGger<m>:MPHY:TC.....                              | 2083 |
| TRIGger<m>:MPHY:TYPE.....                            | 2078 |
| TRIGger<m>:NFC:BITRate.....                          | 2471 |
| TRIGger<m>:NFC:EVENT.....                            | 2471 |
| TRIGger<m>:NFC:TECHnology.....                       | 2471 |
| TRIGger<m>:OFFSet:LIMited.....                       | 1329 |
| TRIGger<m>:OUT:ACTion.....                           | 1438 |
| TRIGger<m>:OUT:DELay.....                            | 1436 |
| TRIGger<m>:OUT:PLENgtH.....                          | 1435 |
| TRIGger<m>:OUT:POLarity.....                         | 1435 |
| TRIGger<m>:PARallel:EDGE:EXPRession[:DEFine].....    | 2426 |
| TRIGger<m>:PARallel:EDGE:SLOPe.....                  | 2426 |
| TRIGger<m>:PARallel:PATtern:BIT<0..15>.....          | 2430 |
| TRIGger<m>:PARallel:PATtern:EXPRession[:DEFine]..... | 2426 |
| TRIGger<m>:PARallel:PATtern:MODE.....                | 2431 |
| TRIGger<m>:PARallel:PATtern:TIMEout:MODE.....        | 2431 |
| TRIGger<m>:PARallel:PATtern:TIMEout[:TIME].....      | 2431 |
| TRIGger<m>:PARallel:PATtern:WIDTh:DELTA.....         | 2433 |
| TRIGger<m>:PARallel:PATtern:WIDTh:RANGe.....         | 2432 |
| TRIGger<m>:PARallel:PATtern:WIDTh[:WIDTh].....       | 2432 |
| TRIGger<m>:PARallel:SETHold:CSource:EDGE.....        | 2429 |
| TRIGger<m>:PARallel:SETHold:CSource[:VALue].....     | 2426 |
| TRIGger<m>:PARallel:SETHold:HTIME.....               | 2429 |
| TRIGger<m>:PARallel:SETHold:STIME.....               | 2430 |
| TRIGger<m>:PARallel:SPATtern:CSource:EDGE.....       | 2433 |
| TRIGger<m>:PARallel:SPATtern:CSource[:VALue].....    | 2426 |

|                                                       |      |
|-------------------------------------------------------|------|
| TRIGger<m>:PARallel:SPATtern:EXPRession[:DEFine]..... | 2426 |
| TRIGger<m>:PARallel:SPATtern:PATtern.....             | 2433 |
| TRIGger<m>:PARallel:STATe:BIT<0..15>.....             | 2430 |
| TRIGger<m>:PARallel:STATe:CSOource:EDGE.....          | 2430 |
| TRIGger<m>:PARallel:STATe:CSOource:VALue.....         | 2426 |
| TRIGger<m>:PARallel:STATe:EXPRession[:DEFine].....    | 2426 |
| TRIGger<m>:PARallel:TIMEout:EXPRession[:DEFine].....  | 2426 |
| TRIGger<m>:PARallel:TIMEout:RANGe.....                | 2428 |
| TRIGger<m>:PARallel:TIMEout:TIME.....                 | 2429 |
| TRIGger<m>:PARallel:TYPE.....                         | 2425 |
| TRIGger<m>:PARallel:WIDTh:DELTA.....                  | 2428 |
| TRIGger<m>:PARallel:WIDTh:EXPRession[:DEFine].....    | 2426 |
| TRIGger<m>:PARallel:WIDTh:POLarity.....               | 2427 |
| TRIGger<m>:PARallel:WIDTh:RANGe.....                  | 2427 |
| TRIGger<m>:PARallel:WIDTh:WIDTh.....                  | 2427 |
| TRIGger<m>:PATtern:MODE.....                          | 1413 |
| TRIGger<m>:PATtern:TIMEout:MODE.....                  | 1413 |
| TRIGger<m>:PATtern:TIMEout[:TIME].....                | 1414 |
| TRIGger<m>:PATtern:WIDTh:DELTA.....                   | 1415 |
| TRIGger<m>:PATtern:WIDTh:RANGe.....                   | 1414 |
| TRIGger<m>:PATtern:WIDTh[:WIDTh].....                 | 1415 |
| TRIGger<m>:PCIE:DLLP:FCTL:CRET.....                   | 2323 |
| TRIGger<m>:PCIE:DLLP:FCTL:VCID.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:AUTH.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:CRET.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:DVPT.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:HABS.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:MIXT.....                   | 2324 |
| TRIGger<m>:PCIE:DLLP:MULT:PHAS.....                   | 2325 |
| TRIGger<m>:PCIE:DLLP:MULT:RESA.....                   | 2325 |
| TRIGger<m>:PCIE:DLLP:MULT:TLPT.....                   | 2325 |
| TRIGger<m>:PCIE:DLLP:MULT:TYPE.....                   | 2325 |
| TRIGger<m>:PCIE:DLLP:MULT:VHFC.....                   | 2325 |
| TRIGger<m>:PCIE:DLLP:MULT:VHGR.....                   | 2326 |
| TRIGger<m>:PCIE:DLLP:MULT:VLNR.....                   | 2326 |
| TRIGger<m>:PCIE:DLLP:POWM.....                        | 2326 |
| TRIGger<m>:PCIE:DLLP:SEQ.....                         | 2326 |
| TRIGger<m>:PCIE:DLLP:TYPE.....                        | 2326 |
| TRIGger<m>:PCIE:DLLP:VPAT.....                        | 2327 |
| TRIGger<m>:PCIE:ERRC:CRC.....                         | 2327 |
| TRIGger<m>:PCIE:ERRC:DISP.....                        | 2327 |
| TRIGger<m>:PCIE:ERRC:ECRC.....                        | 2327 |
| TRIGger<m>:PCIE:ERRC:INVP.....                        | 2327 |
| TRIGger<m>:PCIE:ERRC:LCRC.....                        | 2327 |
| TRIGger<m>:PCIE:OSET:TYPE.....                        | 2328 |
| TRIGger<m>:PCIE:TLP:ADRT.....                         | 2328 |
| TRIGger<m>:PCIE:TLP:CFGT.....                         | 2328 |
| TRIGger<m>:PCIE:TLP:CPID.....                         | 2328 |
| TRIGger<m>:PCIE:TLP:CPLS.....                         | 2329 |
| TRIGger<m>:PCIE:TLP:DEID.....                         | 2329 |

|                                        |      |
|----------------------------------------|------|
| TRIGger<m>:PCIE:TLP:MERW.....          | 2329 |
| TRIGger<m>:PCIE:TLP:MSGC.....          | 2329 |
| TRIGger<m>:PCIE:TLP:MSGR.....          | 2329 |
| TRIGger<m>:PCIE:TLP:ORDE.....          | 2329 |
| TRIGger<m>:PCIE:TLP:REID.....          | 2330 |
| TRIGger<m>:PCIE:TLP:SNOO.....          | 2330 |
| TRIGger<m>:PCIE:TLP:SNUM.....          | 2330 |
| TRIGger<m>:PCIE:TLP:TCHN.....          | 2330 |
| TRIGger<m>:PCIE:TLP:TYPE.....          | 2330 |
| TRIGger<m>:PCIE:TYPE.....              | 2331 |
| TRIGger<m>:QUALify<n>:A:LOGic.....     | 1424 |
| TRIGger<m>:QUALify<n>:A[:ENABLE].....  | 1423 |
| TRIGger<m>:QUALify<n>:AB:LOGic.....    | 1425 |
| TRIGger<m>:QUALify<n>:ABCD:LOGic.....  | 1425 |
| TRIGger<m>:QUALify<n>:B:LOGic.....     | 1424 |
| TRIGger<m>:QUALify<n>:B[:ENABLE].....  | 1423 |
| TRIGger<m>:QUALify<n>:C:LOGic.....     | 1424 |
| TRIGger<m>:QUALify<n>:C[:ENABLE].....  | 1423 |
| TRIGger<m>:QUALify<n>:CD:LOGic.....    | 1425 |
| TRIGger<m>:QUALify<n>:D:LOGic.....     | 1424 |
| TRIGger<m>:QUALify<n>:D[:ENABLE].....  | 1423 |
| TRIGger<m>:QUALify<n>:STATe.....       | 1423 |
| TRIGger<m>:RFFE:ADDResS:CONDition..... | 2019 |
| TRIGger<m>:RFFE:ADDResS:MAX.....       | 2020 |
| TRIGger<m>:RFFE:ADDResS:MIN.....       | 2019 |
| TRIGger<m>:RFFE:BCOunt:CONDition.....  | 2020 |
| TRIGger<m>:RFFE:BCOunt:MAX.....        | 2020 |
| TRIGger<m>:RFFE:BCOunt:MIN.....        | 2020 |
| TRIGger<m>:RFFE:DATA:DCON.....         | 2021 |
| TRIGger<m>:RFFE:DATA:DMAX.....         | 2021 |
| TRIGger<m>:RFFE:DATA:DMIN.....         | 2021 |
| TRIGger<m>:RFFE:DATA:ICONdition.....   | 2022 |
| TRIGger<m>:RFFE:DATA:IMAX.....         | 2022 |
| TRIGger<m>:RFFE:DATA:IMIN.....         | 2022 |
| TRIGger<m>:RFFE:ERRor:BP.....          | 2024 |
| TRIGger<m>:RFFE:ERRor:GAP.....         | 2025 |
| TRIGger<m>:RFFE:ERRor:LENGth.....      | 2024 |
| TRIGger<m>:RFFE:ERRor:NOResponse.....  | 2024 |
| TRIGger<m>:RFFE:ERRor:PARity.....      | 2024 |
| TRIGger<m>:RFFE:ERRor:SSC.....         | 2025 |
| TRIGger<m>:RFFE:ERRor:USEquence.....   | 2025 |
| TRIGger<m>:RFFE:ERRor:VERSion.....     | 2025 |
| TRIGger<m>:RFFE:INTerrupt.....         | 2024 |
| TRIGger<m>:RFFE:INTerrupt.....         | 2025 |
| TRIGger<m>:RFFE:MASK:CONDition.....    | 2023 |
| TRIGger<m>:RFFE:MASK:MAX.....          | 2023 |
| TRIGger<m>:RFFE:MASK:MIN.....          | 2024 |
| TRIGger<m>:RFFE:SADD:CONDition.....    | 2022 |
| TRIGger<m>:RFFE:SADD:MAX.....          | 2023 |
| TRIGger<m>:RFFE:SADD:MIN.....          | 2023 |

|                                                 |      |
|-------------------------------------------------|------|
| TRIGger<m>:RFFE:TYPE.....                       | 2017 |
| TRIGger<m>:RFReject.....                        | 1386 |
| TRIGger<m>:RUNT:DELTA.....                      | 1402 |
| TRIGger<m>:RUNT:POLarity.....                   | 1400 |
| TRIGger<m>:RUNT:RANGe.....                      | 1401 |
| TRIGger<m>:RUNT:WIDTh.....                      | 1402 |
| TRIGger<m>:SCOUpling.....                       | 1412 |
| TRIGger<m>:SENT:CRCError.....                   | 1991 |
| TRIGger<m>:SENT:FORMerror.....                  | 1990 |
| TRIGger<m>:SENT:IRFLength.....                  | 1991 |
| TRIGger<m>:SENT:PPERioderror.....               | 1990 |
| TRIGger<m>:SENT:PULSeerror.....                 | 1990 |
| TRIGger<m>:SENT:SDCN.....                       | 1989 |
| TRIGger<m>:SENT:SDMN.....                       | 1989 |
| TRIGger<m>:SENT:SDMX.....                       | 1989 |
| TRIGger<m>:SENT:SICN.....                       | 1988 |
| TRIGger<m>:SENT:SIDType.....                    | 1988 |
| TRIGger<m>:SENT:SIMN.....                       | 1989 |
| TRIGger<m>:SENT:SIMX.....                       | 1989 |
| TRIGger<m>:SENT:STATus.....                     | 1987 |
| TRIGger<m>:SENT:STYPe.....                      | 1988 |
| TRIGger<m>:SENT:TDCN.....                       | 1987 |
| TRIGger<m>:SENT:TDMN.....                       | 1987 |
| TRIGger<m>:SENT:TDMX.....                       | 1987 |
| TRIGger<m>:SENT:TTYPE.....                      | 1986 |
| TRIGger<m>:SENT:TYPE.....                       | 1986 |
| TRIGger<m>:SEQuence:COUNT.....                  | 1433 |
| TRIGger<m>:SEQuence:DELay.....                  | 1433 |
| TRIGger<m>:SEQuence:RESet:EVENT.....            | 1433 |
| TRIGger<m>:SEQuence:RESet:TIMEout:TIME.....     | 1434 |
| TRIGger<m>:SEQuence:RESet:TIMEout[:ENABLE]..... | 1434 |
| TRIGger<m>:SEQuence:TYPE.....                   | 1432 |
| TRIGger<m>:SETHold:CSOUrce:EDGE.....            | 1410 |
| TRIGger<m>:SETHold:CSOUrce:LEVel.....           | 1410 |
| TRIGger<m>:SETHold:CSOUrce[:VALue].....         | 1411 |
| TRIGger<m>:SETHold:HTIME.....                   | 1411 |
| TRIGger<m>:SETHold:STIME.....                   | 1411 |
| TRIGger<m>:SLEW:DELTA.....                      | 1410 |
| TRIGger<m>:SLEW:RANGe.....                      | 1409 |
| TRIGger<m>:SLEW:RATE.....                       | 1409 |
| TRIGger<m>:SLEW:SLOPe.....                      | 1408 |
| TRIGger<m>:SOURce:SBSelect.....                 | 1674 |
| TRIGger<m>:SOURce[:SElect].....                 | 1391 |
| TRIGger<m>:SOURce[:SElect].....                 | 1673 |
| TRIGger<m>:SOURce[:SElect].....                 | 2424 |
| TRIGger<m>:SPATtern:CDR.....                    | 2512 |
| TRIGger<m>:SPATtern:CSOUrce:EDGE.....           | 1416 |
| TRIGger<m>:SPATtern:CSOUrce:LEVel.....          | 1416 |
| TRIGger<m>:SPATtern:CSOUrce[:VALue].....        | 1415 |
| TRIGger<m>:SPATtern:PATtern.....                | 1416 |

|                                         |      |
|-----------------------------------------|------|
| TRIGger<m>:SPATtern:REFSource.....      | 1417 |
| TRIGger<m>:SPI:DPOperator.....          | 1713 |
| TRIGger<m>:SPI:DPOsition.....           | 1713 |
| TRIGger<m>:SPI:DPTO.....                | 1713 |
| TRIGger<m>:SPI:FCONdition.....          | 1713 |
| TRIGger<m>:SPI:MIsoPattern.....         | 1714 |
| TRIGger<m>:SPI:MODE.....                | 1712 |
| TRIGger<m>:SPI:MOSiPattern.....         | 1714 |
| TRIGger<m>:SPI:PALignment.....          | 1712 |
| TRIGger<m>:SWIRe:CTYPe.....             | 2304 |
| TRIGger<m>:SWIRe:DATA:CONDiTion.....    | 2304 |
| TRIGger<m>:SWIRe:DATA:MAX.....          | 2305 |
| TRIGger<m>:SWIRe:DATA:MIN.....          | 2305 |
| TRIGger<m>:SWIRe:ERRor:ESC.....         | 2305 |
| TRIGger<m>:SWIRe:ERRor:PARity.....      | 2305 |
| TRIGger<m>:SWIRe:TIME:CONDiTion.....    | 2305 |
| TRIGger<m>:SWIRe:TIME:MAX.....          | 2306 |
| TRIGger<m>:SWIRe:TIME:MIN.....          | 2306 |
| TRIGger<m>:SWIRe:TYPE.....              | 2306 |
| TRIGger<m>:TBTO:CRC:CONDiTion.....      | 1960 |
| TRIGger<m>:TBTO:CRC:MAX.....            | 1961 |
| TRIGger<m>:TBTO:CRC:MIN.....            | 1961 |
| TRIGger<m>:TBTO:DADdress:CONDiTion..... | 1961 |
| TRIGger<m>:TBTO:DADdress:MAX.....       | 1962 |
| TRIGger<m>:TBTO:DADdress:MIN.....       | 1962 |
| TRIGger<m>:TBTO:DATA:DCONDiTion.....    | 1962 |
| TRIGger<m>:TBTO:DATA:DMAX.....          | 1963 |
| TRIGger<m>:TBTO:DATA:DMIN.....          | 1963 |
| TRIGger<m>:TBTO:DATA:ICONDiTion.....    | 1963 |
| TRIGger<m>:TBTO:DATA:IMAX.....          | 1964 |
| TRIGger<m>:TBTO:DATA:IMIN.....          | 1964 |
| TRIGger<m>:TBTO:ERRor:CRC.....          | 1964 |
| TRIGger<m>:TBTO:ERRor:FEC.....          | 1965 |
| TRIGger<m>:TBTO:ERRor:OOR.....          | 1965 |
| TRIGger<m>:TBTO:ERRor:ZERO.....         | 1965 |
| TRIGger<m>:TBTO:LENGth:CONDiTion.....   | 1965 |
| TRIGger<m>:TBTO:LENGth:MAX.....         | 1966 |
| TRIGger<m>:TBTO:LENGth:MIN.....         | 1966 |
| TRIGger<m>:TBTO:SADdress:CONDiTion..... | 1966 |
| TRIGger<m>:TBTO:SADdress:MAX.....       | 1967 |
| TRIGger<m>:TBTO:SADdress:MIN.....       | 1967 |
| TRIGger<m>:TBTO:TRGLevel.....           | 1960 |
| TRIGger<m>:TBTO:TYPE.....               | 1960 |
| TRIGger<m>:TImeout:RANGe.....           | 1405 |
| TRIGger<m>:TImeout:TIME.....            | 1406 |
| TRIGger<m>:TV:CUSTom:LDURation.....     | 1421 |
| TRIGger<m>:TV:CUSTom:SCANmode.....      | 1420 |
| TRIGger<m>:TV:CUSTom:SDURation.....     | 1421 |
| TRIGger<m>:TV:CUSTom:STYPe.....         | 1421 |
| TRIGger<m>:TV:LField.....               | 1420 |

|                                 |      |
|---------------------------------|------|
| TRIGger<m>:TV:LINE.....         | 1419 |
| TRIGger<m>:TV:MODE.....         | 1418 |
| TRIGger<m>:TV:POLarity.....     | 1419 |
| TRIGger<m>:TV:STANdard.....     | 1417 |
| TRIGger<m>:TYPE.....            | 1392 |
| TRIGger<m>:UART:DATA.....       | 1733 |
| TRIGger<m>:UART:DPOPerator..... | 1732 |
| TRIGger<m>:UART:DPOStition..... | 1733 |
| TRIGger<m>:UART:DPTO.....       | 1733 |
| TRIGger<m>:UART:FCONdition..... | 1733 |
| TRIGger<m>:UART:SOURce.....     | 1732 |
| TRIGger<m>:UART:TYPE.....       | 1732 |
| TRIGger<m>:USB:ACONdition.....  | 2210 |
| TRIGger<m>:USB:AMAX.....        | 2211 |
| TRIGger<m>:USB:AMIN.....        | 2211 |
| TRIGger<m>:USB:DATA.....        | 2211 |
| TRIGger<m>:USB:DCONdition.....  | 2211 |
| TRIGger<m>:USB:DPOPerator.....  | 2212 |
| TRIGger<m>:USB:DPOStition.....  | 2212 |
| TRIGger<m>:USB:ECONdition.....  | 2212 |
| TRIGger<m>:USB:EMAX.....        | 2213 |
| TRIGger<m>:USB:EMIN.....        | 2213 |
| TRIGger<m>:USB:ERRC.....        | 2213 |
| TRIGger<m>:USB:FCONdition.....  | 2214 |
| TRIGger<m>:USB:FMAX.....        | 2214 |
| TRIGger<m>:USB:FMIN.....        | 2214 |
| TRIGger<m>:USB:HAND.....        | 2214 |
| TRIGger<m>:USB:PATT.....        | 2215 |
| TRIGger<m>:USB:PCONdition.....  | 2215 |
| TRIGger<m>:USB:PMAX.....        | 2215 |
| TRIGger<m>:USB:PMIN.....        | 2215 |
| TRIGger<m>:USB:SCONdition.....  | 2216 |
| TRIGger<m>:USB:SMAX.....        | 2216 |
| TRIGger<m>:USB:SMIN.....        | 2216 |
| TRIGger<m>:USB:SPEC.....        | 2216 |
| TRIGger<m>:USB:STCO.....        | 2217 |
| TRIGger<m>:USB:TCONdition.....  | 2217 |
| TRIGger<m>:USB:TMAX.....        | 2218 |
| TRIGger<m>:USB:TMIN.....        | 2217 |
| TRIGger<m>:USB:TOKen.....       | 2218 |
| TRIGger<m>:USB:TYPE.....        | 2209 |
| TRIGger<m>:USB:WADD.....        | 2218 |
| TRIGger<m>:USB:WEND.....        | 2218 |
| TRIGger<m>:USB:WETCheck.....    | 2218 |
| TRIGger<m>:USB:WFRN.....        | 2219 |
| TRIGger<m>:USB:WPAY.....        | 2219 |
| TRIGger<m>:USB:WPID.....        | 2219 |
| TRIGger<m>:USB:WPOR.....        | 2219 |
| TRIGger<m>:USB:WSEU.....        | 2219 |
| TRIGger<m>:USB:WSTC.....        | 2219 |



|                                                    |      |
|----------------------------------------------------|------|
| TRIGger<m>:USBPd:BIT.....                          | 2282 |
| TRIGger<m>:USBPd:DMAX.....                         | 2282 |
| TRIGger<m>:USBPd:DMIN.....                         | 2282 |
| TRIGger<m>:USBPd:DOPerator.....                    | 2283 |
| TRIGger<m>:USBPd:ERENable.....                     | 2280 |
| TRIGger<m>:USBPd:ERRor<n>:ENABLE.....              | 2280 |
| TRIGger<m>:USBPd:FIENable.....                     | 2281 |
| TRIGger<m>:USBPd:FRAMe<n>:ENABLE.....              | 2281 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:BIT.....          | 2282 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:BIT.....          | 2284 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:DMAX.....         | 2282 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:DMIN.....         | 2282 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:DOPerator.....    | 2283 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:ENABLE.....       | 2281 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:IMAX.....         | 2283 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:IMIN.....         | 2284 |
| TRIGger<m>:USBPd:FRAMe<n>:FLD<o>:IOPerator.....    | 2284 |
| TRIGger<m>:USBPd:FRENable.....                     | 2281 |
| TRIGger<m>:USBPd:IMAX.....                         | 2283 |
| TRIGger<m>:USBPd:IMIN.....                         | 2284 |
| TRIGger<m>:USBPd:IOPerator.....                    | 2284 |
| TRIGger<m>:USBThree:BIT.....                       | 2260 |
| TRIGger<m>:USBThree:DMAX.....                      | 2259 |
| TRIGger<m>:USBThree:DMIN.....                      | 2259 |
| TRIGger<m>:USBThree:DOPerator.....                 | 2258 |
| TRIGger<m>:USBThree:ERENable.....                  | 2257 |
| TRIGger<m>:USBThree:ERRor<n>:ENABLE.....           | 2257 |
| TRIGger<m>:USBThree:FIENable.....                  | 2258 |
| TRIGger<m>:USBThree:FRAMe<n>:ENABLE.....           | 2257 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:BIT.....       | 2260 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:DMAX.....      | 2259 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:DMIN.....      | 2259 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:DOPerator..... | 2258 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:ENABLE.....    | 2258 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:IMAX.....      | 2261 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:IMIN.....      | 2261 |
| TRIGger<m>:USBThree:FRAMe<n>:FLD<o>:IOPerator..... | 2260 |
| TRIGger<m>:USBThree:FRENable.....                  | 2257 |
| TRIGger<m>:USBThree:IMAX.....                      | 2261 |
| TRIGger<m>:USBThree:IMIN.....                      | 2261 |
| TRIGger<m>:USBThree:IOPerator.....                 | 2260 |
| TRIGger<m>:WIDTH:DELTA.....                        | 1400 |
| TRIGger<m>:WIDTH:POLarity.....                     | 1399 |
| TRIGger<m>:WIDTH:RANGe.....                        | 1399 |
| TRIGger<m>:WIDTH:WIDTH.....                        | 1400 |
| TRIGger<m>:WINDow:DELTA.....                       | 1405 |
| TRIGger<m>:WINDow:RANGe.....                       | 1403 |
| TRIGger<m>:WINDow:TIME.....                        | 1404 |
| TRIGger<m>:WINDow:WIDTH.....                       | 1404 |
| TRIGger<m>:ZONE:EXPRession[:DEFine].....           | 1438 |

|                                                 |      |
|-------------------------------------------------|------|
| WAVeform<m>:XYCurve:RATio.....                  | 1467 |
| WAVeform<m>:XYCurve:STATe.....                  | 1468 |
| WAVeform<m>:XYCurve:SWAP.....                   | 1468 |
| WAVeform<m>:XYCurve:XSource.....                | 1469 |
| WAVeform<m>:XYCurve:YSource.....                | 1469 |
| WGENerator<m>:ACOPY.....                        | 2436 |
| WGENerator<m>:ARBGen:COPI.....                  | 2446 |
| WGENerator<m>:ARBGen:MULTichannel:IMPort.....   | 2446 |
| WGENerator<m>:ARBGen:MULTichannel:NAME.....     | 2446 |
| WGENerator<m>:ARBGen:MULTichannel:OPEN.....     | 2447 |
| WGENerator<m>:ARBGen:NAME.....                  | 2447 |
| WGENerator<m>:ARBGen:OPEN.....                  | 2447 |
| WGENerator<m>:ARBGen:RUNMode.....               | 2447 |
| WGENerator<m>:ARBGen:RUNSingle.....             | 2449 |
| WGENerator<m>:ARBGen:SAMPles?.....              | 2448 |
| WGENerator<m>:ARBGen:SELEct.....                | 2448 |
| WGENerator<m>:ARBGen:SRATe.....                 | 2448 |
| WGENerator<m>:ARBGen[:SOURce].....              | 2448 |
| WGENerator<m>:COUPling:AMPLitude.....           | 2455 |
| WGENerator<m>:COUPling:AWForm.....              | 2456 |
| WGENerator<m>:COUPling:NOISe.....               | 2456 |
| WGENerator<m>:COUPling:PHASeshift.....          | 2455 |
| WGENerator<m>:COUPling:STATe.....               | 2455 |
| WGENerator<m>:COUPling[:FREQuency].....         | 2456 |
| WGENerator<m>:FREQuency.....                    | 2437 |
| WGENerator<m>:FUNCTion:PULSe[:WIDTh].....       | 2438 |
| WGENerator<m>:FUNCTion:RAMP[:SYMMetry].....     | 2438 |
| WGENerator<m>:FUNCTion:SQUare:DCYCLE.....       | 2438 |
| WGENerator<m>:FUNCTion[:SELEct].....            | 2437 |
| WGENerator<m>:MODulation:AM:DCYCLE.....         | 2439 |
| WGENerator<m>:MODulation:AM:DEPT.....           | 2440 |
| WGENerator<m>:MODulation:AM:FREQuency.....      | 2440 |
| WGENerator<m>:MODulation:AM:SYMMetry.....       | 2440 |
| WGENerator<m>:MODulation:AM[:FUNCTion].....     | 2441 |
| WGENerator<m>:MODulation:CARRier:FREQuency..... | 2440 |
| WGENerator<m>:MODulation:CARRier:PERiod.....    | 2441 |
| WGENerator<m>:MODulation:FM:DCYCLE.....         | 2441 |
| WGENerator<m>:MODulation:FM:DEVIation.....      | 2441 |
| WGENerator<m>:MODulation:FM:FREQuency.....      | 2442 |
| WGENerator<m>:MODulation:FM:SYMMetry.....       | 2442 |
| WGENerator<m>:MODulation:FM[:FUNCTion].....     | 2442 |
| WGENerator<m>:MODulation:FSK:FONE.....          | 2442 |
| WGENerator<m>:MODulation:FSK:FTWO.....          | 2443 |
| WGENerator<m>:MODulation:FSK[:RATE].....        | 2443 |
| WGENerator<m>:MODulation:NDCLevel.....          | 2453 |
| WGENerator<m>:MODulation:NLABsolute?.....       | 2453 |
| WGENerator<m>:MODulation:NLPCent.....           | 2453 |
| WGENerator<m>:MODulation:NOISe.....             | 2453 |
| WGENerator<m>:MODulation:PWM:DCYCLE.....        | 2443 |
| WGENerator<m>:MODulation:PWM:DEPT.....          | 2444 |

|                                              |      |
|----------------------------------------------|------|
| WGENerator<m>:MODulation:PWM:FREQuency.....  | 2444 |
| WGENerator<m>:MODulation:PWM:SYMMetry.....   | 2444 |
| WGENerator<m>:MODulation:PWM[:FUNctioN]..... | 2444 |
| WGENerator<m>:MODulation:TYPE.....           | 2439 |
| WGENerator<m>:OUTPut[:LOAD].....             | 2451 |
| WGENerator<m>:PERiod.....                    | 2437 |
| WGENerator<m>:PRESet.....                    | 2436 |
| WGENerator<m>:SOURce.....                    | 2436 |
| WGENerator<m>:SWEep:FSTart.....              | 2445 |
| WGENerator<m>:SWEep:TIME.....                | 2445 |
| WGENerator<m>:SWEep[:FEND].....              | 2445 |
| WGENerator<m>:VOLTage:DCLevel.....           | 2451 |
| WGENerator<m>:VOLTage:HIGH.....              | 2452 |
| WGENerator<m>:VOLTage:INVersion.....         | 2452 |
| WGENerator<m>:VOLTage:LOW.....               | 2452 |
| WGENerator<m>:VOLTage:OFFSet.....            | 2452 |
| WGENerator<m>:VOLTage[:VPP].....             | 2451 |
| WGENerator<m>[:ENABLE].....                  | 2436 |
| ZVC:BANDwidth.....                           | 1369 |
| ZVC:RESCoupled.....                          | 1370 |
| ZVC:TYPE.....                                | 1369 |
| ZVC:Z<m>:I<n>:BANDwidth?.....                | 1369 |
| ZVC:Z<m>:I<n>:DATA:HEADer?.....              | 1380 |
| ZVC:Z<m>:I<n>:DATA[:VALues]?.....            | 1380 |
| ZVC:Z<m>:I<n>:IMPedance.....                 | 1370 |
| ZVC:Z<m>:I<n>:OFFSet.....                    | 1370 |
| ZVC:Z<m>:I<n>:OVERload:RSTO.....             | 1371 |
| ZVC:Z<m>:I<n>:OVERload:VALue?.....           | 1371 |
| ZVC:Z<m>:I<n>:POSition.....                  | 1371 |
| ZVC:Z<m>:I<n>:SCALE.....                     | 1372 |
| ZVC:Z<m>:I<n>:SHUNT:EVALue.....              | 1372 |
| ZVC:Z<m>:I<n>:SHUNT:MAXCurrent.....          | 1373 |
| ZVC:Z<m>:I<n>:SHUNT:MAXVoltage.....          | 1374 |
| ZVC:Z<m>:I<n>:SHUNT:MODE.....                | 1372 |
| ZVC:Z<m>:I<n>:SHUNT:MXCValue?.....           | 1373 |
| ZVC:Z<m>:I<n>:SKEW.....                      | 1374 |
| ZVC:Z<m>:I<n>:ZERComp:DETECT.....            | 1378 |
| ZVC:Z<m>:I<n>:ZERComp:STATe?.....            | 1379 |
| ZVC:Z<m>:I<n>:ZERComp:USE.....               | 1379 |
| ZVC:Z<m>:I<n>[:STATe].....                   | 1374 |
| ZVC:Z<m>:ID:NAME?.....                       | 1377 |
| ZVC:Z<m>:ID:PARTnumber?.....                 | 1378 |
| ZVC:Z<m>:ID:SRNumber?.....                   | 1378 |
| ZVC:Z<m>:ID:SWVersion?.....                  | 1378 |
| ZVC:Z<m>:V<n>:BANDwidth?.....                | 1375 |
| ZVC:Z<m>:V<n>:DATA:HEADer?.....              | 1380 |
| ZVC:Z<m>:V<n>:DATA[:VALues]?.....            | 1380 |
| ZVC:Z<m>:V<n>:IMPedance.....                 | 1375 |
| ZVC:Z<m>:V<n>:OFFSet.....                    | 1375 |
| ZVC:Z<m>:V<n>:OVERload:RSTO.....             | 1376 |

|                                    |      |
|------------------------------------|------|
| ZVC:Z<m>:V<n>:OVERload:VALue?..... | 1376 |
| ZVC:Z<m>:V<n>:POSition.....        | 1376 |
| ZVC:Z<m>:V<n>:SCALe.....           | 1376 |
| ZVC:Z<m>:V<n>:SKEW.....            | 1377 |
| ZVC:Z<m>:V<n>[:STATe].....         | 1377 |

# Index

## Symbols

|                        |     |
|------------------------|-----|
| 8b/10b                 |     |
| Trigger settings       | 817 |
| Triggering             | 820 |
| 100BASE-T1             |     |
| Configuration settings | 648 |
| Configuring            | 651 |
| Trigger settings       | 652 |
| Triggering             | 657 |
| 1000BASE-T1            |     |
| Configuration settings | 666 |
| Configuring            | 669 |
| Trigger settings       | 669 |
| Triggering             | 675 |

## A

|                              |      |
|------------------------------|------|
| Acquisition                  |      |
| Decimation                   | 135  |
| Key                          | 38   |
| Modes                        | 118  |
| Single, multiple             | 41   |
| Start                        | 41   |
| Stop                         | 41   |
| Time                         | 120  |
| Acquisition modes            | 118  |
| Acquisition time             | 120  |
| Actions                      |      |
| Mask test                    | 404  |
| Active probe                 |      |
| Differential                 | 124  |
| Micro button                 | 153  |
| Offset compensation          | 169  |
| Overview                     | 123  |
| ProbeMeter                   | 154  |
| Setup                        | 157  |
| Active waveform              | 53   |
| Adapter for Tektronix probes | 174  |
| ADC overflow                 | 1248 |
| ADC sample rate              | 116  |
| ADC samples                  | 116  |
| Aligning                     |      |
| Input channels               | 107  |
| Alignment                    | 106  |
| Amplitude measurement        | 321  |
| Amplitude/time measurements  |      |
| Settings                     | 326  |
| Analog                       |      |
| Parallel bus display         | 984  |
| App Cockpit key              | 42   |
| Appearance                   |      |
| Color tables                 | 81   |
| Application, external        | 113  |
| Area level                   |      |
| Amplitude/time measurements  | 327  |
| Area measurements            | 325  |
| Arithmetic                   | 136  |
| Arranging waveforms          | 54   |
| Audio                        |      |
| Configuring                  | 590  |
| Track                        | 596  |

|                                |               |
|--------------------------------|---------------|
| Trend                          | 599           |
| Trigger settings               | 591           |
| Auto clear                     |               |
| Search results                 | 437           |
| Auto trigger mode              | 41            |
| Auto-logon                     | 1222          |
| Auto, trigger mode             | 223           |
| Autocorrelation                | 267           |
| Automatic measurements         |               |
| Configuration settings         | 303           |
| Display settings               | 307           |
| Gate settings                  | 309           |
| Autonaming                     | 110           |
| Autoset                        |               |
| for protocols                  | 482           |
| Key                            | 36            |
| AutoZero                       | 151           |
| Average                        | 136           |
| FFT                            | 384           |
| Mathematics                    | 276           |
| Average count                  | 133, 136, 277 |
| Average count (N-single count) | 133, 136, 277 |

## B

|                              |      |
|------------------------------|------|
| Bandwidth                    | 146  |
| Instrument                   | 116  |
| Probe                        | 116  |
| Spectrum measurement         | 338  |
| Bench top operation          | 25   |
| Biased correlation           | 267  |
| Big endian                   |      |
| CAN                          | 537  |
| LIN                          | 560  |
| Bit pattern editor           | 488  |
| Bit string                   |      |
| serial pattern, MSO          | 1002 |
| Blackman Harris window (FFT) | 382  |
| Brochure                     | 20   |
| Bug report                   | 2581 |
| Burst width                  | 323  |

## C

|                        |     |
|------------------------|-----|
| Cable, USB             | 32  |
| Camera key             | 36  |
| CAN                    |     |
| Configuration settings | 525 |
| Data length            | 537 |
| Data pattern           | 537 |
| Endianness             | 537 |
| Frame types            | 535 |
| ID type                | 535 |
| Identifier             | 536 |
| Transfer order         | 537 |
| Trigger settings       | 532 |
| Trigger types          | 533 |
| Center frequency       |     |
| Spectrum measurement   | 340 |
| Ch <n> keys            | 39  |
| Channel                |     |
| Bandwidth measurement  | 340 |
| Center frequency       | 340 |

|                                    |          |
|------------------------------------|----------|
| Ch <n> keys .....                  | 39       |
| Connector .....                    | 32       |
| Offset .....                       | 40, 144  |
| Waveforms .....                    | 52       |
| Channel power                      |          |
| Spectrum measurement .....         | 338      |
| Clear status                       |          |
| Remote .....                       | 1289     |
| Clipping .....                     | 1248     |
| Clock                              |          |
| Parallel bus .....                 | 984      |
| Clock period                       |          |
| SENT configuration .....           | 689      |
| Clock tolerance                    |          |
| SENT configuration .....           | 689      |
| Color tables .....                 | 81       |
| Comb                               |          |
| Parallel bus display .....         | 984      |
| Command sequence                   |          |
| Remote .....                       | 1292     |
| Commands                           |          |
| Finding a command .....            | 1260     |
| Compensation, passive probes ..... | 190      |
| Computer name                      |          |
| Changing .....                     | 1228     |
| Configuration                      |          |
| hardware .....                     | 109      |
| SENT .....                         | 687      |
| Connectors                         |          |
| Probe compensation .....           | 32       |
| Rear panel .....                   | 32       |
| USB .....                          | 32       |
| Coupled zoom .....                 | 250      |
| quick access .....                 | 60, 243  |
| Coupling .....                     | 114      |
| Channel .....                      | 145      |
| Trigger .....                      | 239      |
| Waveform generator settings .....  | 1034     |
| CRC calculation                    |          |
| SENT configuration .....           | 689      |
| CRC version                        |          |
| SENT configuration .....           | 689      |
| Cross-correlation .....            | 267      |
| CSV                                |          |
| Waveform export .....              | 454      |
| CSV export .....                   | 112      |
| Cursor                             |          |
| Saving data .....                  | 469      |
| Settings for data export .....     | 457      |
| Used for gating .....              | 309      |
| Cursor key .....                   | 41       |
| Cursor measurements                |          |
| Disabling .....                    | 290      |
| Enable .....                       | 293      |
| Envelope waveform .....            | 295      |
| How to .....                       | 289      |
| Peak excursion .....               | 298, 341 |
| Peak search .....                  | 297      |
| Results .....                      | 288      |
| Settings .....                     | 293      |
| Cursors .....                      | 61       |
| Configuring display .....          | 292      |
| Configuring measurement .....      | 290      |
| Coupling .....                     | 296      |
| Display .....                      | 296      |
| Position .....                     | 294      |
| Start measurement .....            | 290      |

|                              |          |
|------------------------------|----------|
| Track waveform .....         | 290, 295 |
| Type .....                   | 294      |
| Custom:                      |          |
| Filter settings .....        | 805      |
| Custom: Manchester / NRZ     |          |
| Configuration settings ..... | 783      |
| Configuring .....            | 800      |
| Decoding .....               | 808      |
| Trigger settings .....       | 801      |
| Triggering .....             | 805      |
| Customer support .....       | 2580     |
| CXPI                         |          |
| Configuration settings ..... | 942      |
| Configuring .....            | 945      |
| Trigger settings .....       | 946      |
| Triggering .....             | 953      |
| Cycle area measurement ..... | 325      |
| Cycle measurements .....     | 321      |

## D

|                                     |               |
|-------------------------------------|---------------|
| D-PHY                               |               |
| Basics .....                        | 736           |
| Configuration settings .....        | 737           |
| Configuring .....                   | 740           |
| Triggering .....                    | 746           |
| Data                                |               |
| SENT configuration .....            | 688           |
| Data entry .....                    | 66            |
| Data length                         |               |
| LIN .....                           | 560           |
| Data Length Code                    |               |
| CAN .....                           | 537           |
| Data nibbles                        |               |
| SENT configuration .....            | 689, 712      |
| Data pattern                        |               |
| CAN .....                           | 537           |
| LIN .....                           | 560           |
| Data security .....                 | 2581          |
| Data sheet .....                    | 20            |
| Data2Clock                          |               |
| Search .....                        | 428           |
| Trigger .....                       | 210           |
| Trigger (MSO) .....                 | 997           |
| DDR                                 |               |
| Configuration settings .....        | 960           |
| Configuring .....                   | 963           |
| Decode results .....                | 967           |
| Decimation .....                    | 118, 135      |
| Decode                              |               |
| Custom protocol, decode layer ..... | 799           |
| CXPI, decode layer .....            | 945           |
| D-PHY, decode layer .....           | 739           |
| DDR, decode layer .....             | 962           |
| Ethernet, decode layer .....        | 634, 650, 668 |
| M-PHY, decode layer .....           | 756           |
| MDIO, decode layer .....            | 828           |
| SENT .....                          | 708           |
| SpaceWire, decode layer .....       | 903           |
| USBPD, decode layer .....           | 890           |
| Decode layer                        |               |
| Custom protocol .....               | 799           |
| CXPI .....                          | 945           |
| D-PHY .....                         | 739           |
| DDR .....                           | 962           |
| Ethernet .....                      | 634, 650, 668 |
| M-PHY .....                         | 756           |

|                               |          |
|-------------------------------|----------|
| MDIO .....                    | 828      |
| SpaceWire .....               | 903      |
| USBPD .....                   | 890      |
| Decode table .....            |          |
| MSO .....                     | 990      |
| Decoded bus .....             |          |
| Parallel bus display .....    | 984      |
| Default .....                 |          |
| File names .....              | 111      |
| Path for saving .....         | 111      |
| Default values .....          |          |
| Remote .....                  | 1291     |
| Delay .....                   | 323      |
| Delay measurement .....       | 327      |
| Delete .....                  | 62       |
| Demo .....                    | 60       |
| Device footprint .....        | 2581     |
| DHCP .....                    | 1227     |
| DHCP server .....             |          |
| LAN configuration .....       | 1228     |
| Diagrams .....                | 47       |
| Dialog boxes .....            | 49       |
| Background transparency ..... | 37       |
| Usage .....                   | 64       |
| Differential probe .....      | 124      |
| Digital channels .....        | 980      |
| Configuration settings .....  | 980      |
| Configuring .....             | 988      |
| Decode table .....            | 990      |
| Export .....                  | 1005     |
| Search .....                  | 1006     |
| Triggering .....              | 1004     |
| Digital filter .....          | 148      |
| Digital resolution .....      | 987      |
| Digital signals .....         | 980      |
| Digital waveforms .....       | 52       |
| Display .....                 |          |
| Intensity .....               | 97       |
| Key .....                     | 37       |
| Overview .....                | 46       |
| XY-diagram .....              | 284, 286 |
| Zoom .....                    | 243      |
| Display elements .....        |          |
| Diagram .....                 | 46       |
| Input box .....               | 49       |
| Menu .....                    | 49       |
| Result box .....              | 49       |
| Signal bar .....              | 46       |
| Toolbar .....                 | 49       |
| DisplayPort .....             | 30, 34   |
| DNS server .....              |          |
| LAN configuration .....       | 1228     |
| Duty cycle .....              |          |
| Eye .....                     | 336      |
| Duty cycle measurement .....  | 323      |
| DVI-D .....                   | 30, 34   |
| DVI-D connector .....         | 34       |

## E

|                                       |     |
|---------------------------------------|-----|
| Edge .....                            |     |
| Search conditions .....               | 421 |
| Trigger .....                         | 200 |
| Edge count .....                      | 325 |
| Edge trigger .....                    |     |
| MSO .....                             | 993 |
| Electric power (math. function) ..... | 268 |

|                                          |         |
|------------------------------------------|---------|
| Enable registers .....                   |         |
| Remote .....                             | 1291    |
| Endianness .....                         |         |
| CAN .....                                | 537     |
| LIN .....                                | 560     |
| Envelope .....                           | 136     |
| FFT .....                                | 384     |
| Mathematics .....                        | 276     |
| Measurements .....                       | 304     |
| Envelope waveform .....                  |         |
| Cursor measurement .....                 | 295     |
| Error report .....                       | 2581    |
| Esc key .....                            | 43      |
| ESR .....                                | 1244    |
| Ethernet .....                           |         |
| Configuration settings .....             | 631     |
| Configuring .....                        | 636     |
| Trigger settings .....                   | 636     |
| Triggering .....                         | 640     |
| Event actions .....                      |         |
| Mask test .....                          | 404     |
| Event status enable register (ESE) ..... |         |
| Remote .....                             | 1289    |
| Event status register (ESR) .....        |         |
| Remote .....                             | 1289    |
| Export .....                             |         |
| Data .....                               | 457     |
| Digital channels .....                   | 1005    |
| History .....                            | 469     |
| Include horizontal values .....          | 459     |
| Integer format .....                     | 458     |
| Parallel buses .....                     | 1005    |
| Raw values .....                         | 458     |
| Waveform histograms .....                | 462     |
| XML, CSV, BIN .....                      | 450     |
| Expressions .....                        | 263     |
| External application .....               | 113     |
| External monitor .....                   | 30, 34  |
| External trigger input .....             | 34, 238 |
| External trigger out .....               | 228     |
| External trigger output .....            | 34      |
| Extinction ratio .....                   |         |
| Eye .....                                | 336     |
| Eye .....                                |         |
| Amplitude .....                          | 336     |
| Base .....                               | 336     |
| Bit rate .....                           | 336     |
| Fall time .....                          | 336     |
| Height .....                             | 336     |
| Measurement results .....                | 336     |
| Rise time .....                          | 336     |
| Top .....                                | 336     |
| Width .....                              | 336     |
| Eye measurements .....                   |         |
| Characteristics .....                    | 334     |
| Results .....                            | 335     |
| Settings .....                           | 337     |

## F

|                                |         |
|--------------------------------|---------|
| Fail criteria, mask test ..... | 393     |
| Fall time .....                | 323     |
| FFT .....                      | 62, 371 |
| Configuring .....              | 375     |
| Fundamentals .....             | 371     |
| Gating .....                   | 385     |
| Key .....                      | 43      |

|                                  |               |
|----------------------------------|---------------|
| measurement speed .....          | 374           |
| MSO .....                        | 1006          |
| Peak excursion .....             | 298, 341      |
| Performance considerations ..... | 376           |
| Search .....                     | 417           |
| Setup .....                      | 379, 383      |
| Window types .....               | 382           |
| File formats .....               |               |
| Waveform export .....            | 450           |
| File import .....                |               |
| Restrictions .....               | 450           |
| File names .....                 |               |
| Default .....                    | 110, 111      |
| Filter .....                     |               |
| Custom .....                     | 805           |
| Find .....                       |               |
| Remote control command .....     | 70            |
| Find trigger level .....         | 60            |
| FIR (math. function) .....       | 268           |
| FIR filter .....                 | 271           |
| Flatop2 window (FFT) .....       | 382           |
| FlexRay .....                    |               |
| Configuration settings .....     | 566           |
| Trigger settings .....           | 570           |
| Triggering .....                 | 576           |
| Formula editor .....             |               |
| Reference .....                  | 263           |
| Using .....                      | 270           |
| Formulas .....                   |               |
| Advanced expressions .....       | 263           |
| Operator editor .....            | 261           |
| Frame length .....               |               |
| SENT configuration .....         | 690           |
| Frame types .....                |               |
| CAN .....                        | 535           |
| Frontend .....                   |               |
| information .....                | 109           |
| Frontpanel .....                 |               |
| information .....                | 109           |
| Function generator option .....  | 35            |
| <b>G</b> .....                   |               |
| Gain, vertical .....             | 114           |
| Gate .....                       |               |
| Coupled to cursor .....          | 309           |
| Coupled to zoom .....            | 309           |
| Saving data .....                | 469           |
| Search .....                     | 433           |
| Search, defining .....           | 435           |
| Settings .....                   | 309           |
| Settings for data export .....   | 457           |
| Gate area .....                  |               |
| Configuring .....                | 308           |
| Coupling to zoom .....           | 310, 386, 434 |
| Gating .....                     |               |
| FFT .....                        | 385           |
| Gaussian window (FFT) .....      | 382           |
| GBIP connector .....             | 35            |
| Getting started .....            | 19            |
| Glitch .....                     |               |
| Search conditions .....          | 422           |
| Trigger .....                    | 201           |
| GPIO .....                       |               |
| Address .....                    | 1240          |
| Remote control interface .....   | 1239          |

|                                     |          |
|-------------------------------------|----------|
| GPIO bus control .....              |          |
| Remote .....                        | 1290     |
| Grid .....                          | 47       |
| Grounding .....                     | 27       |
| <b>H</b> .....                      |          |
| Hamming window (FFT) .....          | 382      |
| Hann window (FFT) .....             | 382      |
| Hardware .....                      |          |
| information .....                   | 109      |
| Hardware check .....                | 108      |
| Hardware zoom .....                 | 60, 243  |
| Header files .....                  | 450      |
| Help .....                          | 19, 59   |
| Key .....                           | 37       |
| Open .....                          | 70       |
| Search for topic .....              | 71       |
| Using .....                         | 70       |
| High definition .....               | 139      |
| High res .....                      | 135      |
| High signal level measurement ..... | 321      |
| Histogram .....                     |          |
| Saving .....                        | 449      |
| Histogram measurements .....        |          |
| Settings .....                      | 349      |
| Histograms .....                    | 61, 343  |
| Area .....                          | 49       |
| averaging .....                     | 318      |
| Characteristics .....               | 343      |
| Configuring .....                   | 347      |
| Diagram .....                       | 49       |
| Exporting waveform histograms ..... | 462      |
| Horizontal .....                    | 343      |
| Jitter measurement .....            | 346      |
| Markers .....                       | 350      |
| Measurement histograms .....        | 360      |
| Measurement results .....           | 343      |
| Saving waveform histograms .....    | 462      |
| Setup .....                         | 348      |
| Toolbar icons .....                 | 347      |
| Tubes .....                         | 318      |
| Vertical .....                      | 343      |
| History .....                       |          |
| Export .....                        | 457, 469 |
| MSO .....                           | 989      |
| time stamp .....                    | 281      |
| History key .....                   | 42       |
| Hold time .....                     | 329      |
| Holdoff .....                       | 224      |
| TV trigger .....                    | 218      |
| Using .....                         | 196      |
| Horizontal .....                    |          |
| Controls .....                      | 37       |
| Key .....                           | 38       |
| Label .....                         | 48       |
| Position .....                      | 38       |
| Reference point .....               | 38       |
| Horizontal position .....           | 120      |
| Hysteresis .....                    |          |
| Reference level .....               | 312      |
| trigger .....                       | 225      |



**I**

|                               |          |
|-------------------------------|----------|
| I <sup>2</sup> C              |          |
| Basics                        | 490      |
| Configuration settings        | 492      |
| Configuring                   | 494, 570 |
| Decode results                | 500      |
| Trigger settings              | 495      |
| Triggering                    | 500, 595 |
| Icons                         |          |
| Measurement status            | 306      |
| ID type                       |          |
| CAN                           | 535      |
| Identification                |          |
| Remote                        | 1289     |
| Identifier                    |          |
| CAN                           | 536      |
| LIN                           | 559      |
| Import waveforms              |          |
| Restrictions                  | 450      |
| Infinite persistence          | 96       |
| Input                         | 32       |
| Input box                     | 49       |
| Instrument settings           |          |
| Loading                       | 442      |
| Recall                        | 1291     |
| Save                          | 1291     |
| Saving                        | 447      |
| Intensity                     | 97       |
| Intensity key                 | 37       |
| Intensity of display elements | 37       |
| Interfaces                    |          |
| GPIO                          | 1240     |
| LAN                           | 1239     |
| Interlaced scanning           | 222      |
| Interleaved sample rate       | 117      |
| Interleaved X/Y               | 459      |
| Interpolation                 | 133      |
| Interval                      |          |
| Search conditions             | 426      |
| Trigger                       | 207      |
| IP address                    | 1239     |
| Changing                      | 1227     |
| Remote Desktop                | 1237     |
| IST                           | 1244     |
| IST flag                      |          |
| Remote                        | 1290     |

**J**

|                           |      |
|---------------------------|------|
| Jitter                    |      |
| Measurement via histogram | 346  |
| Jitter measurements       |      |
| Settings                  | 1068 |

**K**

|                            |     |
|----------------------------|-----|
| Kaiser Bessel window (FFT) | 382 |
| Keep X-grid fixed          | 84  |
| Keep Y-grid fixed          | 84  |
| Keyboard                   |     |
| On-screen                  | 66  |
| Usage                      | 45  |
| Keyboard, connecting       | 30  |
| Keypad                     | 66  |

**L**

|                                |            |
|--------------------------------|------------|
| Label                          | 62         |
| Label list                     |            |
| SENT                           | 698        |
| Labels                         |            |
| Waveform                       | 88         |
| LAN                            | 1231       |
| Configuration                  | 1226, 1231 |
| Connector                      | 34         |
| Environment                    | 1226       |
| Interface                      | 1239       |
| IP address                     | 1239       |
| LAN configuration              | 1232       |
| Ping                           | 1234       |
| Remote control interface       | 1239       |
| Resource string                | 1239       |
| Level measurements             | 321        |
| Levels knob                    | 40         |
| Limit checks                   |            |
| Actions                        | 367        |
| Configuring                    | 365        |
| Enable                         | 366        |
| Performing                     | 365        |
| Violation settings             | 367        |
| Limits                         |            |
| Range                          | 366        |
| LIN                            |            |
| Configuration settings         | 552        |
| Configuring                    | 556        |
| Data length                    | 560        |
| Data pattern                   | 560        |
| Endianness                     | 560        |
| Identifier                     | 559        |
| Transfer order                 | 560        |
| Trigger settings               | 557        |
| Trigger types                  | 557        |
| Triggering                     | 561        |
| Little endian                  |            |
| CAN                            | 537        |
| LIN                            | 560        |
| Load instrument settings       | 1291       |
| Loading                        |            |
| User settings                  | 442        |
| Lock touchscreen               | 37         |
| Logic analyzer                 | 979        |
| Logic key                      | 39         |
| Logic probe connector          | 35         |
| Logical operations on channels | 213, 230   |
| Logical thresholds             |            |
| MSO, configuring               | 989        |
| MSO, settings                  | 981        |
| Login                          | 1222       |
| Long-term measurements         |            |
| Basics                         | 358        |
| Configuring                    | 359        |
| Horizontal scale               | 363        |
| Number of points               | 364        |
| Period of time per point       | 364        |
| Saving                         | 466        |
| Scale mode                     | 364        |
| Settings                       | 360        |
| Low signal level measurement   | 321        |

**M****M-PHY**

|                              |     |
|------------------------------|-----|
| Basics .....                 | 752 |
| Configuration settings ..... | 753 |
| Configuring .....            | 756 |
| Decode results .....         | 770 |
| Trigger settings .....       | 757 |

**Mainboard**

|                   |     |
|-------------------|-----|
| information ..... | 109 |
|-------------------|-----|

**Margins**

|             |     |
|-------------|-----|
| Range ..... | 366 |
|-------------|-----|

**Marker limit**

|                  |     |
|------------------|-----|
| Histograms ..... | 350 |
|------------------|-----|

**Markers**

|                  |          |
|------------------|----------|
| Histograms ..... | 343, 350 |
|------------------|----------|

**Mask definition**

|                |     |
|----------------|-----|
| Settings ..... | 397 |
| Type .....     | 396 |

**Mask setup**

|       |     |
|-------|-----|
| ..... | 397 |
|-------|-----|

**Mask test**

|                                  |          |
|----------------------------------|----------|
| Appearance settings .....        | 406      |
| Display settings .....           | 405, 406 |
| Display, configuring .....       | 414      |
| Event actions, configuring ..... | 414      |
| Event actions, settings .....    | 404      |
| Fail criteria .....              | 393      |
| Fail criteria, configuring ..... | 414      |
| History, testing .....           | 416      |
| Performing .....                 | 415      |
| Results .....                    | 393      |
| Setting up .....                 | 414      |
| Starting .....                   | 415      |
| State, mask test result .....    | 415      |
| Test settings .....              | 395      |

**Mask test results**

|                        |     |
|------------------------|-----|
| Acq. completed .....   | 394 |
| Acq. remaining .....   | 394 |
| Acquisition hits ..... | 394 |
| Fail rate .....        | 394 |
| Sample hits .....      | 394 |
| State .....            | 394 |
| Test result .....      | 395 |

**Mask testing**

|       |     |
|-------|-----|
| ..... | 393 |
|-------|-----|

**Masks**

|                                |          |
|--------------------------------|----------|
| Creating user mask .....       | 409      |
| Definition .....               | 393, 397 |
| Load settings .....            | 396      |
| Loading .....                  | 415      |
| modifying user mask .....      | 411      |
| Save settings .....            | 396      |
| Saving .....                   | 415      |
| Segments, point settings ..... | 399      |
| Segments, settings .....       | 398      |
| User mask definition .....     | 397      |
| Waveform mask definition ..... | 400      |

**Masks key**

|       |    |
|-------|----|
| ..... | 42 |
|-------|----|

**Math key**

|       |    |
|-------|----|
| ..... | 39 |
|-------|----|

**Math waveforms**

|                       |          |
|-----------------------|----------|
| Arithmetic .....      | 39, 52   |
| Arithmetic .....      | 276      |
| Displaying .....      | 259      |
| FFT .....             | 371      |
| FFT Gating .....      | 385      |
| FFT setup .....       | 379, 383 |
| Formula editor .....  | 263      |
| Operator editor ..... | 261      |
| Operators .....       | 262, 263 |

|              |     |
|--------------|-----|
| Saving ..... | 259 |
| Scale .....  | 273 |
| Setup .....  | 260 |

**Max value measurement**

|       |     |
|-------|-----|
| ..... | 321 |
|-------|-----|

**Maximum sample rate**

|       |     |
|-------|-----|
| ..... | 117 |
|-------|-----|

**MDIO**

|                              |     |
|------------------------------|-----|
| Configuration settings ..... | 826 |
| Configuring .....            | 829 |
| Trigger settings .....       | 830 |
| Triggering .....             | 833 |

**MDIO protocol**

|              |     |
|--------------|-----|
| Basics ..... | 825 |
|--------------|-----|

**Mean measurement**

|       |     |
|-------|-----|
| ..... | 321 |
|-------|-----|

**Meas key**

|       |         |
|-------|---------|
| ..... | 42, 301 |
|-------|---------|

**Measurement**

|       |    |
|-------|----|
| ..... | 61 |
|-------|----|

**Measurement histograms**

|       |     |
|-------|-----|
| ..... | 360 |
|-------|-----|

**Measurement types**

|                  |     |
|------------------|-----|
| Area .....       | 325 |
| Arithmetic ..... | 326 |
| Counting .....   | 325 |
| Eye .....        | 335 |
| Histograms ..... | 343 |
| Protocol .....   | 351 |
| Spectrum .....   | 338 |
| Time .....       | 323 |

**Measurements**

|                              |     |
|------------------------------|-----|
| Amplitude/time .....         | 320 |
| Configuring .....            | 301 |
| Delay .....                  | 327 |
| Icons in results table ..... | 306 |
| Pulse train count .....      | 330 |
| Results .....                | 305 |
| Setup/Hold .....             | 329 |
| Source for analysis .....    | 361 |
| Starting .....               | 301 |
| Statistics .....             | 357 |

**Median**

|                  |     |
|------------------|-----|
| Histograms ..... | 343 |
|------------------|-----|

**Memory**

|       |     |
|-------|-----|
| ..... | 278 |
|-------|-----|

**Micro button**

|       |          |
|-------|----------|
| ..... | 123, 153 |
|-------|----------|

**Min value measurement**

|       |     |
|-------|-----|
| ..... | 321 |
|-------|-----|

**Minimized waveform**

|       |    |
|-------|----|
| ..... | 53 |
|-------|----|

**Mixed signal option**

|       |     |
|-------|-----|
| ..... | 979 |
|-------|-----|

**Mixed Signal Option**

|       |    |
|-------|----|
| ..... | 35 |
|-------|----|

**Mode**

|                     |    |
|---------------------|----|
| Key (trigger) ..... | 41 |
|---------------------|----|

**Monitor**

|       |            |
|-------|------------|
| ..... | 30, 34, 98 |
|-------|------------|

**Mouse**

|             |    |
|-------------|----|
| Usage ..... | 45 |
|-------------|----|

**Mouse, connecting**

|       |    |
|-------|----|
| ..... | 30 |
|-------|----|

**MSO**

|       |         |
|-------|---------|
| ..... | 35, 979 |
|-------|---------|

|           |      |
|-----------|------|
| FFT ..... | 1006 |
|-----------|------|

|               |     |
|---------------|-----|
| History ..... | 989 |
|---------------|-----|

|                  |     |
|------------------|-----|
| Resolution ..... | 987 |
|------------------|-----|

|                          |      |
|--------------------------|------|
| Time qualification ..... | 1000 |
|--------------------------|------|

|                        |     |
|------------------------|-----|
| Trigger settings ..... | 992 |
|------------------------|-----|

|            |     |
|------------|-----|
| Zoom ..... | 989 |
|------------|-----|

**Multi channel export**

|              |     |
|--------------|-----|
| Enable ..... | 457 |
|--------------|-----|

|                      |            |
|----------------------|------------|
| Remote control ..... | 1343, 1648 |
|----------------------|------------|

|                              |     |
|------------------------------|-----|
| Results in header file ..... | 453 |
|------------------------------|-----|

**Multiple measurements**

|       |     |
|-------|-----|
| ..... | 363 |
|-------|-----|

**N****N dB down**

|                |     |
|----------------|-----|
| Spectrum ..... | 340 |
|----------------|-----|

|                      |      |
|----------------------|------|
| Navigation controls  |      |
| Data input           | 68   |
| Keys                 | 44   |
| Overview             | 43   |
| Network              |      |
| Environment          | 1226 |
| Noise                |      |
| Eye                  | 336  |
| hysteresis settings  | 225  |
| Normal trigger mode  | 41   |
| Normal, trigger mode | 223  |
| Notification         | 48   |
| Numeric data entry   | 66   |

## O

|                                              |          |
|----------------------------------------------|----------|
| Occupied bandwidth                           |          |
| Spectrum measurement                         | 338, 341 |
| OCXO                                         | 35, 130  |
| Offset                                       |          |
| Active probe                                 | 169      |
| Channel                                      | 40, 144  |
| OK key                                       | 44       |
| On/Off key                                   | 36       |
| One File                                     | 443      |
| Open source acknowledgment                   | 20       |
| Operating system                             | 1221     |
| Access                                       | 1225     |
| service packs                                | 1223     |
| Settings                                     | 1225     |
| Operation                                    |          |
| Concepts                                     | 44       |
| Manual                                       | 45       |
| Operation complete                           |          |
| Remote                                       | 1290     |
| Operator                                     |          |
| Type                                         | 262      |
| Operators                                    |          |
| Formula editor mathematics                   | 263      |
| Options                                      |          |
| Identification (remote)                      | 1290     |
| K4, FlexRay                                  | 566      |
| K5, I <sup>2</sup> S, Audio                  | 582      |
| R&S RTO-B4, OCXO                             | 130      |
| R&S RTO-B1 (MSO)                             | 35       |
| R&S RTO-B1E (for R&S RT-ZVC)                 | 35       |
| R&S RTO-B4 (OCXO)                            | 35       |
| R&S RTO-B6 (waveform and function generator) | 35       |
| R&S RTO-B10 (GBIP)                           | 35       |
| Output buffer                                | 1244     |
| Overshoot measurement                        | 321      |
| Password                                     | 1222     |
| Remote Desktop                               | 1237     |
| Pattern                                      |          |
| Qualification, state trigger                 | 213, 230 |
| Pattern generator                            |          |
| Setup                                        | 1027     |
| Pattern search condition                     | 213      |
| Pattern trigger                              | 213      |
| MSO                                          | 1000     |
| Pause pulse                                  |          |
| SENT configuration                           | 690      |
| PCIe                                         |          |
| Trigger settings                             | 919      |
| PCIe Gen 1/2                                 |          |
| Search settings                              | 930      |
| Searching                                    | 940      |
| Triggering                                   | 928      |
| Peak detect                                  | 135      |
| Peak excursion                               |          |
| Cursor measurement                           | 298, 341 |
| Search                                       | 298, 341 |
| Spectrum measurement                         | 298, 341 |
| Peak search                                  |          |
| Cursor measurement                           | 289, 290 |
| Spectrum measurement                         | 289, 297 |
| Peak to peak measurement                     | 321      |
| Performance                                  | 99       |
| Considerations for FFT                       | 376      |
| FFT parameters                               | 374      |
| Performance test                             | 131      |
| Ping                                         | 1234     |
| Position                                     |          |
| Horizontal                                   | 38, 120  |
| Vertical                                     | 40, 114  |
| Position mode                                | 87       |
| Power                                        |          |
| Connector                                    | 33       |
| Key                                          | 36       |
| On/Off                                       | 27       |
| PPE                                          | 1244     |
| Preset                                       | 103      |
| Preset key                                   | 36       |
| Printing                                     |          |
| Settings                                     | 472      |
| Probability markers                          |          |
| Histograms                                   | 350      |
| ProbeMeter                                   | 123      |
| Measurement                                  | 321      |
| Setting                                      | 154      |
| Probes                                       |          |
| Active                                       | 123      |
| AutoZero                                     | 151      |
| Compensation                                 | 32       |
| Differential                                 | 124      |
| Passive                                      | 122      |
| passive, compensation                        | 190      |
| Setup                                        | 150      |
| Tektronix                                    | 174      |
| Progressive scanning                         | 222      |
| Projector                                    | 30       |
| Protocol                                     |          |
| SENT                                         | 683      |
| Protocol key                                 | 42       |
| Protocols                                    |          |
| 8b/10b trigger settings                      | 817      |
| 100BASE-T1 configuration settings            | 648      |
| 100BASE-T1 trigger settings                  | 652      |

## P

|                               |      |
|-------------------------------|------|
| Parallel buses                | 980  |
| Clock setup                   | 984  |
| Configuration settings        | 980  |
| Configuring                   | 988  |
| Decode table                  | 990  |
| Export                        | 1005 |
| Triggering                    | 1004 |
| Parallel poll register enable |      |
| Remote                        | 1290 |
| Passive probe                 |      |
| Overview                      | 122  |
| Settings                      | 155  |

|                                                     |     |
|-----------------------------------------------------|-----|
| 1000BASE-T1 configuration settings .....            | 666 |
| 1000BASE-T1 trigger settings .....                  | 669 |
| Audio trigger settings .....                        | 591 |
| CAN configuration settings .....                    | 525 |
| Custom: filter settings .....                       | 805 |
| Custom: Manchester / NRZ configuration settings ... | 783 |
| Custom: Manchester / NRZ trigger settings .....     | 801 |
| CXPI configuration settings .....                   | 942 |
| CXPI trigger settings .....                         | 946 |
| D-PHY configuration settings .....                  | 737 |
| Data format .....                                   | 483 |
| DDR configuration settings .....                    | 960 |
| DDR decode results .....                            | 967 |
| Display settings .....                              | 483 |
| Ethernet configuration settings .....               | 631 |
| Ethernet trigger settings .....                     | 636 |
| FlexRay configuration settings .....                | 566 |
| FlexRay trigger settings .....                      | 570 |
| I <sup>2</sup> C configuration settings .....       | 492 |
| I <sup>2</sup> C decode results .....               | 500 |
| I <sup>2</sup> C trigger settings .....             | 495 |
| LIN configuration settings .....                    | 552 |
| LIN trigger settings .....                          | 557 |
| M-PHY configuration settings .....                  | 753 |
| M-PHY decode results .....                          | 770 |
| M-PHY trigger settings .....                        | 757 |
| MDIO configuration settings .....                   | 826 |
| MDIO trigger settings .....                         | 830 |
| PCIe Gen 1/2 search settings .....                  | 930 |
| PCIe trigger settings .....                         | 919 |
| SENT .....                                          | 683 |
| SENT configuration .....                            | 687 |
| SENT decode results .....                           | 708 |
| SENT label list .....                               | 698 |
| SENT protocol .....                                 | 683 |
| SENT search .....                                   | 709 |
| SENT trigger .....                                  | 691 |
| SpaceWire configuration settings .....              | 900 |
| SPI configuration settings .....                    | 505 |
| SPI decode results .....                            | 512 |
| SPI trigger settings .....                          | 510 |
| UART decode results .....                           | 523 |
| USB 2.0 configuration settings .....                | 843 |
| USB 2.0 trigger settings .....                      | 849 |
| USB 3.1 configuration settings .....                | 875 |
| USB 3.1 trigger settings .....                      | 879 |
| USBPD configuration settings .....                  | 888 |
| USBPD trigger settings .....                        | 892 |
| Pulse count .....                                   | 325 |
| Pulse train count .....                             | 330 |

**Q**

|                          |     |
|--------------------------|-----|
| Q-factor                 |     |
| Eye .....                | 336 |
| Quick Action key .....   | 37  |
| Quick measurements ..... | 61  |

**R**

|                                  |      |
|----------------------------------|------|
| R&S RT-ZVC                       |      |
| multi-channel power probe .....  | 176  |
| R&S RT-Z2T .....                 | 174  |
| R&S RTO-B4 .....                 | 35   |
| Rack mounting .....              | 26   |
| Recall instrument settings ..... | 1291 |
| Recall intermediate .....        | 1291 |

|                                              |                |
|----------------------------------------------|----------------|
| Record length .....                          | 116, 120       |
| Rotary knob .....                            | 38             |
| Rectangular window (FFT) .....               | 382            |
| Redo .....                                   | 59             |
| Key .....                                    | 44             |
| Ref key .....                                | 39             |
| Reference levels .....                       |                |
| Basics .....                                 | 311            |
| Configuring .....                            | 312            |
| Defining automatically .....                 | 312            |
| Defining manually .....                      | 312            |
| displaying .....                             | 308            |
| Displaying .....                             | 314            |
| Hysteresis .....                             | 312            |
| Level settings .....                         | 314            |
| Settings .....                               | 314            |
| Tubes .....                                  | 312            |
| Reference point .....                        | 38, 48, 120    |
| Reference signal .....                       |                |
| 1 GHz, internal .....                        | 131            |
| External .....                               | 130            |
| OCXO .....                                   | 130            |
| Reference waveforms .....                    | 39, 52         |
| Displaying .....                             | 251            |
| Loading .....                                | 251            |
| Saving .....                                 | 251            |
| Registers .....                              | 1244           |
| Release notes .....                          | 20             |
| Remote commands .....                        |                |
| Finding a command .....                      | 1260           |
| Remote control .....                         | 44             |
| Find command using help .....                | 70             |
| GPIO address .....                           | 1240           |
| Interfaces .....                             | 1239           |
| Protocols .....                              | 1239           |
| Starting .....                               | 1242           |
| Remote Desktop .....                         | 44, 1236       |
| Remote operation .....                       | 44, 1234, 1236 |
| Repetitive, trigger mode .....               | 223            |
| Res Rec Len key .....                        | 38             |
| Reset .....                                  |                |
| Histogram, long-term meas., statistics ..... | 362            |
| Reset values .....                           |                |
| Remote .....                                 | 1291           |
| Resolution .....                             | 114, 116, 120  |
| 16 bit .....                                 | 139            |
| Rotary knob .....                            | 38             |
| Resolution enhancement .....                 | 118            |
| Resource string .....                        |                |
| LAN .....                                    | 1239           |
| Restoring .....                              |                |
| Settings .....                               | 105            |
| Result boxes .....                           | 49             |
| Background transparency .....                | 37             |
| Displaying .....                             | 63             |
| Result lines .....                           |                |
| Displaying .....                             | 308            |
| Results .....                                |                |
| Clear .....                                  | 307            |
| Configuring display .....                    | 63             |
| Lines in display .....                       | 314            |
| Mask test .....                              | 393            |
| Measurements .....                           | 305            |
| Reset long-term measurement .....            | 362            |
| Saving .....                                 | 464            |

|                                    |                              |  |  |
|------------------------------------|------------------------------|--|--|
| RFFE                               |                              |  |  |
| Advanced                           | 719                          |  |  |
| Trigger settings                   | 721                          |  |  |
| Triggering                         | 728                          |  |  |
| Rise time                          | 323                          |  |  |
| RMS                                |                              |  |  |
| Acquisition setting                | 135                          |  |  |
| RMS measurement                    | 321                          |  |  |
| Roll mode                          | 127                          |  |  |
| Start roll time                    | 128                          |  |  |
| RS232                              | 515                          |  |  |
| Basics                             | 515                          |  |  |
| RTOB10                             | 35                           |  |  |
| RTxServiceReporter                 | 2581                         |  |  |
| Run                                | 41                           |  |  |
| Run / Stop                         | 59                           |  |  |
| Run Stop key                       | 41                           |  |  |
| Runt                               |                              |  |  |
| Search conditions                  | 423                          |  |  |
| Trigger                            | 203                          |  |  |
| <b>S</b>                           |                              |  |  |
| Safety instructions                | 20                           |  |  |
| Sample rate                        | 116                          |  |  |
| Samples                            | 116                          |  |  |
| History                            | 278                          |  |  |
| Save instrument settings           | 1291                         |  |  |
| Save intermediate                  | 1291                         |  |  |
| Save Recall                        |                              |  |  |
| Key                                | 449                          |  |  |
| Save Recall key                    | 36                           |  |  |
| Save Reference                     | 62                           |  |  |
| Save Waveform                      | 62                           |  |  |
| Save/Recall                        |                              |  |  |
| Remote                             | 1638                         |  |  |
| User preferences                   | 445                          |  |  |
| User settings                      | 442, 443                     |  |  |
| Waveforms                          | 457                          |  |  |
| Saveset                            | 442, 447                     |  |  |
| Saving                             |                              |  |  |
| File name generation               | 110                          |  |  |
| History                            | 457, 469                     |  |  |
| Instrument settings                | 442, 447                     |  |  |
| Long-term measurements             | 466                          |  |  |
| Preset                             | 103                          |  |  |
| Results                            | 464                          |  |  |
| Screenshots                        | 475                          |  |  |
| User preferences                   | 445                          |  |  |
| Waveform histograms                | 462                          |  |  |
| Waveform segments                  | 457, 469                     |  |  |
| Waveforms                          | 457, 469                     |  |  |
| Scale                              |                              |  |  |
| Horizontal, rotary knob            | 38                           |  |  |
| Math waveforms                     | 273                          |  |  |
| Vertical                           | 114, 144                     |  |  |
| Vertical, rotary knob              | 40                           |  |  |
| Scaling                            |                              |  |  |
| Horizontal                         | 126                          |  |  |
| Long-term measurements             | 363                          |  |  |
| Long-term measurements, horizontal | 363                          |  |  |
| Measurement histograms             | 363                          |  |  |
| Scanning system (TV signals)       | 222                          |  |  |
| SCPI                               |                              |  |  |
| Finding a command                  | 1260                         |  |  |
| Screen resolution                  | 30                           |  |  |
| Screenshot                         |                              |  |  |
| Saving                             | 475                          |  |  |
| Web interface                      | 1235                         |  |  |
| Screenshots                        | 472                          |  |  |
| Meta information                   | 471                          |  |  |
| Print and save                     | 471                          |  |  |
| Search                             | 60                           |  |  |
| Auto clear                         | 437                          |  |  |
| Clearing results                   | 437                          |  |  |
| Conditions                         | 417                          |  |  |
| Control                            | 417                          |  |  |
| Copy trigger settings              | 420                          |  |  |
| Data2Clock                         | 428                          |  |  |
| Definition                         | 417                          |  |  |
| Edge                               | 421                          |  |  |
| Enable                             | 419                          |  |  |
| FFT                                | 417                          |  |  |
| Gate                               | 433                          |  |  |
| Glitch                             | 422                          |  |  |
| Interval                           | 426                          |  |  |
| Key                                | 42                           |  |  |
| On digital signals                 | 1006                         |  |  |
| PCIe Gen 1/2 settings              | 930                          |  |  |
| Peak excursion                     | 298, 341                     |  |  |
| Result box                         | 418                          |  |  |
| Runt                               | 423                          |  |  |
| Scope                              | 417                          |  |  |
| SENT                               | 709                          |  |  |
| SENT error condition               | 713                          |  |  |
| SENT search criteria               | 710                          |  |  |
| SENT settings                      | 709                          |  |  |
| SENT short serial message          | 712                          |  |  |
| SENT transmission sequence         | 711                          |  |  |
| Setup & Hold                       | 428                          |  |  |
| Show results                       | 436                          |  |  |
| Slew rate                          | 427                          |  |  |
| Sorting results                    | 436                          |  |  |
| Source                             | 419                          |  |  |
| Timeout                            | 425                          |  |  |
| Trigger level                      | 421, 422, 423, 426, 427, 429 |  |  |
| Trigger search                     | 420                          |  |  |
| Width                              | 422                          |  |  |
| Window                             | 424                          |  |  |
| Zoom window, configuring           | 439                          |  |  |
| Search conditions                  |                              |  |  |
| Pattern                            | 213                          |  |  |
| Searching                          |                              |  |  |
| In help                            | 71                           |  |  |
| Secured environment                | 2581                         |  |  |
| Select                             |                              |  |  |
| Waveform                           | 54                           |  |  |
| Selected waveform                  | 53                           |  |  |
| Self-alignment                     | 106, 107, 1288               |  |  |
| Self-test                          |                              |  |  |
| Remote                             | 1292                         |  |  |
| Selftest                           | 108                          |  |  |
| SENT                               |                              |  |  |
| About                              | 683                          |  |  |
| Configuration                      | 687                          |  |  |
| Configuring                        | 691                          |  |  |
| Decode results                     | 708                          |  |  |
| Label list                         | 698                          |  |  |
| Protocol                           | 683                          |  |  |
| Search                             | 709                          |  |  |
| Search criteria                    | 710                          |  |  |
| Search error condition             | 713                          |  |  |
| Search settings                    | 709                          |  |  |

|                                             |          |                                      |            |
|---------------------------------------------|----------|--------------------------------------|------------|
| Search short serial message .....           | 712      | SmartGrid .....                      | 54         |
| Search transmission sequence .....          | 711      | Source key .....                     | 41         |
| Trigger error condition .....               | 697      | SpaceWire .....                      |            |
| Trigger serial message setup .....          | 695      | Advanced .....                       | 902        |
| Trigger settings .....                      | 691      | Basics .....                         | 899        |
| Trigger transmission sequence .....         | 694      | Configuration settings .....         | 900        |
| Trigger types .....                         | 692      | Configuring .....                    | 903        |
| Triggering .....                            | 698      | Spectrogram .....                    | 62         |
| SENT configuration .....                    |          | Spectrum measurements .....          |            |
| Clock period .....                          | 689      | Channel BW .....                     | 340        |
| Clock tolerance .....                       | 689      | Channel CF .....                     | 340        |
| CRC calculation .....                       | 689      | Cursor measurement .....             | 289, 290   |
| CRC version .....                           | 689      | N dB down .....                      | 340        |
| Data .....                                  | 688      | Occupied bandwidth .....             | 341        |
| Data nibbles .....                          | 689, 712 | Peak detection .....                 | 290        |
| Frame length .....                          | 690      | Peak excursion .....                 | 298, 341   |
| Pause pulse .....                           | 690      | Peak search .....                    | 289        |
| Serial protocol .....                       | 689      | Results .....                        | 338        |
| Threshold .....                             | 688      | Settings .....                       | 339        |
| Sequence .....                              |          | SPI .....                            |            |
| Search .....                                | 712      | Configuration settings .....         | 505        |
| Trigger .....                               | 695      | Configuring .....                    | 509        |
| Serial message .....                        |          | Decode results .....                 | 512        |
| Search sequence .....                       | 712      | Trigger settings .....               | 510        |
| Sequence .....                              | 695, 712 | Triggering .....                     | 512        |
| Trigger sequence .....                      | 695      | SPI protocol .....                   |            |
| Serial pattern trigger .....                |          | basics .....                         | 504        |
| MSO .....                                   | 1002     | SRE .....                            | 1244       |
| Serial Pattern trigger .....                | 215      | Standard .....                       |            |
| Serial protocol .....                       |          | TV trigger .....                     | 219        |
| SENT configuration .....                    | 689      | Standard deviation .....             |            |
| Service manual .....                        | 20       | Histograms .....                     | 343        |
| Service packs .....                         | 1223     | Standard deviation measurement ..... | 321        |
| Service request enable register (SRE) ..... |          | State trigger .....                  | 212        |
| Remote .....                                | 1291     | MSO .....                            | 999        |
| Settling time .....                         | 323      | Statistics .....                     |            |
| Setup .....                                 |          | Enable .....                         | 360        |
| Controls .....                              | 36       | Measurement results .....            | 357        |
| Key .....                                   | 36       | Status .....                         |            |
| Setup & Hold .....                          |          | Measurements .....                   | 306        |
| Search .....                                | 428      | Status byte .....                    |            |
| Trigger .....                               | 210      | Remote .....                         | 1289, 1292 |
| Trigger (MSO) .....                         | 997      | Status registers .....               |            |
| Setup time .....                            | 329      | Overview .....                       | 1243       |
| Setup/Hold measurement .....                | 329      | STATus:OPERation .....               | 1244       |
| Setup/Hold ratio .....                      | 329      | Status reporting system .....        |            |
| Show labels .....                           | 87       | Common commands .....                | 1288       |
| Signal bar .....                            | 48       | Status reports .....                 | 1243       |
| Signal icons .....                          | 48       | STB .....                            | 1244       |
| Signal label .....                          | 48       | Style (waveforms) .....              | 97         |
| Signal levels .....                         |          | Support .....                        | 2581       |
| Configuring .....                           | 312      | Switch off .....                     |            |
| Signal Off key .....                        | 40       | Waveform .....                       | 54         |
| Signal threshold .....                      |          | Switch on .....                      |            |
| Amplitude/time measurements .....           | 327      | Waveform .....                       | 53         |
| Signal view .....                           | 48       | Switching of transitions .....       | 325        |
| Signals .....                               |          |                                      |            |
| Color settings .....                        | 80       | <b>T</b> .....                       |            |
| Single .....                                | 59       | Technical support .....              | 2581       |
| Single key .....                            | 41       | Temperature .....                    |            |
| Skew .....                                  | 128      | Changes .....                        | 107        |
| Slew rate .....                             |          | Termination .....                    | 114        |
| Trigger .....                               | 208      | Text entry .....                     | 66         |
| Slew Rate .....                             |          | Threshold .....                      |            |
| Search conditions .....                     | 427      | SENT configuration .....             | 688        |
| Slope .....                                 |          |                                      |            |
| Key .....                                   | 41       |                                      |            |

- Thresholds
  - MSO, configuring ..... 989
  - MSO, settings ..... 981
- Time base ..... 38, 120
- Time measurements ..... 323
- Time qualification
  - MSO ..... 1000
- Time scale ..... 38, 120, 126
- Time stamp ..... 281
- Timebase ..... 126
- Timeout
  - Search conditions ..... 425
  - Trigger ..... 206
- Timeout trigger
  - MSO ..... 996
- Toolbar ..... 56
  - Coupled zoom ..... 60, 243
  - Cursor ..... 61
  - Delete ..... 62
  - FFT ..... 62
  - Find level ..... 60
  - Hardware zoom ..... 60, 243
  - Hide/show icons ..... 57
  - Histogram ..... 61
  - Histogram icons ..... 347
  - Label ..... 62
  - Load saveset ..... 59
  - Masks ..... 61
  - Measure ..... 61
  - Measurement ..... 301
  - Overview ..... 57
  - Quick measurement ..... 61
  - Redo ..... 59
  - Run / Stop ..... 59
  - Save Reference ..... 62
  - Save Waveform ..... 62
  - Search ..... 60
  - Show tooltips ..... 59
  - Single ..... 59
  - Undo ..... 59
  - Zone trigger ..... 62
  - Zoom ..... 60, 243
- Tooltips ..... 59
  - Show ..... 70
- Total harmonic distortion
  - Spectrum measurement ..... 338
- Touch Lock key ..... 37
- Touchscreen
  - Adjusting ..... 103
  - Compared with mouse ..... 45
  - Control elements ..... 49
  - Lock, unlock ..... 37
  - Usage ..... 45
- Track ..... 596
  - Enable ..... 360
- Track waveform
  - Cursor measurement ..... 290, 295
- Transfer order
  - CAN ..... 537
  - LIN ..... 560
- Transition switching count ..... 325
- Transition trigger
  - see Slew rate trigger ..... 208
- Transparency ..... 37
- Trend ..... 360, 599
- Trigger
  - 8b/10b settings ..... 817
  - 100BASE-T1 settings ..... 652
  - 1000BASE-T1 settings ..... 669
  - Audio settings ..... 591
  - CAN settings ..... 532
  - Controls ..... 40
  - Custom: Manchester / NRZ settings ..... 801
  - CXPI settings ..... 946
  - Data2Clock ..... 210
  - Data2Clock (MSO) ..... 997
  - Delay (Holdoff) ..... 224
  - Edge ..... 200
  - Edge (MSO) ..... 993
  - Ethernet settings ..... 636
  - Event (definition) ..... 194
  - Event (remote) ..... 1292
  - External input ..... 34, 238
  - External output ..... 34
  - FlexRay settings ..... 570
  - Force ..... 224
  - Glitch ..... 201
  - Holdoff ..... 224
  - I<sup>2</sup>C settings ..... 495
  - Information ..... 195
  - Interval ..... 207
  - Key ..... 40
  - Label ..... 48
  - Level ..... 40, 47
  - Level, search ..... 421, 422, 423, 426, 427, 429
  - LIN settings ..... 557
  - M-PHY settings ..... 757
  - MDIO settings ..... 830
  - Mode ..... 41, 223
  - MSO settings ..... 992
  - Pattern ..... 213
  - Pattern (MSO) ..... 1000
  - PCIe settings ..... 919
  - Position ..... 47
  - Run ..... 223
  - Runt ..... 203
  - Search ..... 420
  - SENT ..... 691
  - SENT error condition ..... 697
  - SENT serial message setup ..... 695
  - SENT transmission sequence ..... 694
  - SENT trigger type ..... 692
  - Sequence (definition) ..... 194
  - Serial Pattern ..... 215
  - Serial pattern (MSO) ..... 1002
  - Settings, copy to search ..... 420
  - Setup & Hold ..... 210
  - Setup & Hold (MSO) ..... 997
  - Slew rate ..... 208
  - Slope ..... 41
  - Source ..... 41
  - Sources, MSO ..... 992
  - SPI settings ..... 510
  - State ..... 195, 212
  - State (MSO) ..... 999
  - Timeout ..... 206
  - Timeout (MSO) ..... 996
  - TV (video) ..... 218
  - USB 2.0 settings ..... 849
  - USB 3.1 settings ..... 879
  - USBPD settings ..... 892
  - Width ..... 202

|                                   |     |
|-----------------------------------|-----|
| Width (MSO) .....                 | 994 |
| Window .....                      | 205 |
| Trigger level                     |     |
| Find .....                        | 60  |
| Trigger offset .....              | 120 |
| Trigger out                       |     |
| Pulse on limit violation .....    | 368 |
| Settings .....                    | 228 |
| Trigger sources                   |     |
| MSO .....                         | 992 |
| Trigger types                     |     |
| CAN .....                         | 533 |
| Edge .....                        | 200 |
| Glitch .....                      | 201 |
| Interval .....                    | 207 |
| LIN .....                         | 557 |
| Pattern .....                     | 213 |
| Runt .....                        | 203 |
| Setup & Hold .....                | 210 |
| Slew rate .....                   | 208 |
| Timeout .....                     | 206 |
| Width .....                       | 202 |
| Window .....                      | 205 |
| Trigger Types .....               | 199 |
| NFC .....                         | 222 |
| Serial Pattern .....              | 215 |
| State .....                       | 212 |
| TV/Video .....                    | 218 |
| Tubes                             |     |
| Configuring .....                 | 318 |
| Histograms .....                  | 318 |
| Reference level .....             | 312 |
| TV trigger .....                  | 218 |
| Type                              |     |
| Trigger .....                     | 199 |
| <b>U</b>                          |     |
| UART .....                        | 515 |
| Basics .....                      | 515 |
| Configuring .....                 | 520 |
| Decode results .....              | 523 |
| Triggering .....                  | 522 |
| Unbiased correlation .....        | 267 |
| Undersampling .....               | 116 |
| Undo .....                        | 59  |
| Key .....                         | 43  |
| Unlock touchscreen .....          | 37  |
| USB                               |     |
| Cable .....                       | 32  |
| Configuring .....                 | 848 |
| Connecting devices .....          | 29  |
| Connector .....                   | 32  |
| Device .....                      | 34  |
| Triggering .....                  | 881 |
| USB 2.0                           |     |
| Configuration settings .....      | 843 |
| Trigger settings .....            | 849 |
| Triggering .....                  | 857 |
| USB 3.1                           |     |
| Configuration settings .....      | 875 |
| Configuring .....                 | 878 |
| Trigger settings .....            | 879 |
| USB 3.1 protocol                  |     |
| Basics .....                      | 866 |
| USB flash drive, connecting ..... | 29  |

|                              |      |
|------------------------------|------|
| USB protocol                 |      |
| Basics .....                 | 838  |
| USBPD                        |      |
| Configuration settings ..... | 888  |
| Configuring .....            | 891  |
| Trigger settings .....       | 892  |
| Triggering .....             | 894  |
| User ID                      |      |
| Remote Desktop .....         | 1237 |
| User manual .....            | 19   |
| User mask                    |      |
| Settings .....               | 397  |
| User name .....              | 1222 |
| User settings                |      |
| Saving .....                 | 442  |

**V**

|                          |          |
|--------------------------|----------|
| Vertical                 |          |
| Controls .....           | 38       |
| Position .....           | 114      |
| Position / Offset .....  | 40       |
| Resolution .....         | 114      |
| Scale .....              | 114, 144 |
| Vertical system .....    | 114      |
| Video (TV) trigger ..... | 218      |
| Violation                |          |
| Limit checks .....       | 367      |
| Violation of limits      |          |
| Actions .....            | 367      |
| Virus protection .....   | 1223     |
| VISA                     |          |
| Resource string .....    | 1239     |
| VNC .....                | 44, 1234 |

**W**

|                           |      |
|---------------------------|------|
| Wait                      |      |
| Remote .....              | 1292 |
| Waveform                  |      |
| Arithmetic .....          | 118  |
| Data query .....          | 1343 |
| Loading .....             | 449  |
| Saving .....              | 449  |
| Waveform arithmetic ..... | 136  |
| Waveform count            |      |
| Histograms .....          | 343  |
| Waveform export           |      |
| CSV .....                 | 454  |
| Data query .....          | 1343 |
| Files and formats .....   | 450  |
| Header files .....        | 450  |
| Remote control .....      | 1648 |
| Value files .....         | 454  |
| XML .....                 | 454  |
| Waveform generator        |      |
| AM modulation .....       | 1017 |
| Arbitrary .....           | 1022 |
| Coupling .....            | 1034 |
| DC offset alignment ..... | 1033 |
| FM modulation .....       | 1019 |
| FSK modulation .....      | 1021 |
| Function generator .....  | 1010 |
| Modulation .....          | 1015 |
| Noise .....               | 1032 |
| Output .....              | 1031 |
| PWM modulation .....      | 1018 |



|                                 |          |
|---------------------------------|----------|
| Settings .....                  | 1008     |
| Sweep .....                     | 1021     |
| Waveform generator option ..... | 35       |
| Waveform mask                   |          |
| Settings .....                  | 400      |
| Waveform samples .....          | 116      |
| Waveform Value files .....      | 454      |
| Waveforms                       |          |
| Arrange .....                   | 54       |
| Channel .....                   | 52       |
| Clipping .....                  | 1248     |
| Display intensity .....         | 37       |
| Math .....                      | 52       |
| Minimize .....                  | 54       |
| Overview and usage .....        | 52       |
| Reference .....                 | 52       |
| Saving .....                    | 457, 469 |
| Select .....                    | 54       |
| States .....                    | 53       |
| Style .....                     | 97       |
| Switch off .....                | 54       |
| Switch on .....                 | 53       |
| XY .....                        | 52       |
| Zoom .....                      | 52       |
| Zooming .....                   | 241      |
| Web browser .....               | 1231     |
| Web control .....               | 1234     |
| Web interface .....             | 44, 1231 |
| Browser .....                   | 1231     |
| LAN configuration .....         | 1232     |
| Width                           |          |
| Search conditions .....         | 422      |
| Trigger .....                   | 202      |
| Width trigger                   |          |
| MSO .....                       | 994      |
| Window                          |          |
| Search conditions .....         | 424      |
| Trigger .....                   | 205      |
| Windows .....                   | 1221     |
| Access .....                    | 29, 1225 |
| Settings .....                  | 1225     |

## X

|                       |     |
|-----------------------|-----|
| XML                   |     |
| Waveform export ..... | 454 |
| xx                    |     |
| Advanced .....        | 650 |
| XY-diagram            |     |
| Displaying .....      | 286 |
| settings .....        | 284 |
| XY-waveforms .....    | 52  |

## Z

|                          |               |
|--------------------------|---------------|
| Zone trigger .....       | 62            |
| Zoom .....               | 241           |
| Area .....               | 48            |
| Area, coupling .....     | 310, 386, 434 |
| Coupled .....            | 250           |
| Diagram .....            | 48            |
| Key .....                | 42            |
| Methods .....            | 241           |
| MSO .....                | 989           |
| Multiple .....           | 249           |
| On the touchscreen ..... | 247           |
| Position/Range .....     | 249           |

|                                |         |
|--------------------------------|---------|
| Procedures .....               | 247     |
| Quick access .....             | 60, 243 |
| Saving data .....              | 469     |
| Settings .....                 | 243     |
| Settings for data export ..... | 457     |
| Start-stop values .....        | 248     |
| Start/Stop settings .....      | 244     |
| Used for gating .....          | 309     |
| Waveforms .....                | 52      |