

# **Programming Compatibility Guide**

## **Agilent Technologies ESG Vector Signal Generator**

This guide applies to signal generator models and associated serial number prefixes listed below. Depending on your firmware revision, signal generator operation may vary from descriptions in this guide.

**E4438C: US4146**



**Part Number: E4400-90543**

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# Contents

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# **1 Overview**

## Inside This Guide

This guide provides a comprehensive listing of SCPI commands and programming codes for signal generator models that are supported by the E4438C. The following list shows the supported models along with the language type for each one:

E44xxB	SCPI commands
8648A/B/C/D	SCPI commands
8656B	programming codes
8657A/B/D/J	programming codes

These commands and programming codes are separated into compatible and non-compatible sections. In most instances, the non-compatible section has the least number of commands/codes, thus providing a more time-efficient way of determining whether or not a command/code is supported by the E4438C.

In some cases, SCPI commands are only partially supported. This usually occurs due to a variance in parameters between the E4438C and other signal generator models. When this condition occurs, the SCPI command will appear in both the compatible and non-compatible sections showing the exact SCPI command syntax that is supported and unsupported.

In addition to providing the compatible command/code listing, this guide also provides you with E4438C SCPI commands that lets you change the signal generator identification output (see “:SYSTem:IDN” on page 3), select a compatible programming language (see “:SYSTem:LANGuage” on page 4), and query the signal generator for errors (see “:SYSTem:ERRor[:NEXT]” on page 4).



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## Changing the Signal Generator Identification String

### :SYSTem:IDN

**Supported**      All

:SYSTem:IDN "<string>"

This ESG Vector Signal Generator command modifies the identification string that the \*IDN? query returns. Sending an empty string returns the \*IDN? query output to its factory shipped setting. The maximum string length is 72 characters.

Modification of the \*IDN? query output enables the ESG Vector Signal Generator to identify itself as another signal generator when it is used as a backwards compatible replacement. This modification of the identification string does not affect the display diagnostic information, which is shown by pressing the **Diagnostic Info** softkey.

---

## Functional E4438C SCPI Commands While in a Compatible Language Mode

The commands in this section are used for configuring the signal generator compatible programming language and for isolating problems.

### :SYSTem:LANGuage

**Supported** All

```
:SYSTem:LANGuage "SCPI" | "COMP" | "NADC" | "PDC" | "PHS" | "8648"
:SYSTem:LANGuage?
```

This command sets the remote language for the signal generator.

The setting enabled by this command is not affected by signal generator power-on, preset, or \*RST.

SCPI	This choice provides compatibility for SCPI commands.
COMP	This choice provides compatibility for the 8656B, 8657A/B signal generator which is supported only through a GPIB interface.
NADC	This choice provides compatibility for the 8657D NADC personality which is supported only through a GPIB interface.
PDC	This choice provides compatibility for the 8657D PDC personality which is supported only through a GPIB interface.
PHS	This choice provides compatibility for the 8657J PHS personality which is supported only through a GPIB interface.
8648	This choice provides compatibility for the 8648A/B/C/D signal generator which is supported only through a GPIB interface.

**Key Entry**      **SCPI 8656B,8657A/B 8657D NADC 8657D PDC 8657J PHS  
8648A/B/C/D**

### :SYSTem:ERRor[:NEXT]

**Supported** All

```
:SYSTem:ERRor[:NEXT]?
```

This query returns the most recent error message from the signal generator error queue. If

there are no error messages, the query returns the following output:

```
+0, "No error"
```

When there is more than one error message, the query will need to be sent for each message. Each error message is erased after being queried.

**Key Entry**      **Error Info**    **View Next Error Message**

Overview

**Functional E4438C SCPI Commands While in a Compatible Language Mode**

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## **2 ESG E44xxB Commands**

## System Function Commands

### IEEE Common Commands

#### Compatible Commands

\*CLS  
\*ESE <data>  
\*ESE?  
\*ESR?  
\*IDN?  
\*OPC  
\*OPC?  
\*RCL <reg\_num>  
\*RST  
\*SAV <reg\_num>  
\*SRE <data>  
\*SRE?  
\*STB?  
\*TRG  
\*TST?  
\*WAI

#### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Calibration Subsystem

### Compatible Commands

```
:CALibration:DCFM
:CALibration:IQ
:CALibration:IQ:DEFault
:CALibration:IQ:FULL
:CALibration:IQ:START <val>
:CALibration:IQ:START?
:CALibration:IQ:STOP <val>
:CALibration:IQ:STOP?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Communication Subsystem

### Compatible Commands

```
:SYSTem:COMMunicate:GPIB:ADDress <number>
:SYSTem:COMMunicate:GPIB:ADDress?

:SYSTem:COMMunicate:SERial:BAUD <number>
:SYSTem:COMMunicate:SERial:BAUD?

:SYSTem:COMMunicate:SERial:ECHO ON|OFF
:SYSTem:COMMunicate:SERial:ECHO?

:SYSTem:COMMunicate:SERial:RESet

:SYSTem:COMMunicate:SERial:TOUT <val>
:SYSTem:COMMunicate:SERial:TOUT?
```

### Non-Compatible Commands

```
:SYSTem:COMMunicate:SERial:CONTrol:RTS ON|OFF|IBFull|RFR
:SYSTem:COMMunicate:SERial:CONTrol:RTS?
```

## Diagnostic Subsystem

### Compatible Commands

:DIAGnostic[:CPU]:INfOrMation:BOARds?  
:DIAGnostic[:CPU]:INfOrMation:CCOunt:ATTenuator?  
:DIAGnostic[:CPU]:INfOrMation:CCOunt:PON?  
:DIAGnostic[:CPU]:INfOrMation:CCOunt:PROTection?  
:DIAGnostic[:CPU]:INfOrMation:DISPlay:OTIME?  
:DIAGnostic[:CPU]:INfOrMation:LIDN?  
:DIAGnostic[:CPU]:INfOrMation:OPTions?  
:DIAGnostic[:CPU]:INfOrMation:OPTions:DETail?  
:DIAGnostic[:CPU]:INfOrMation:OTIME?  
:DIAGnostic[:CPU]:INfOrMation:SDATE?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Display Subsystem

### Compatible Commands

:DISPlay:BRIGhtness <val>  
:DISPlay:BRIGhtness?  
:DISPlay:CONTRast <val>  
:DISPlay:CONTRast?  
:DISPlay:INVeRse ON|OFF|1|0  
:DISPlay:INVeRse?  
:DISPlay:REMOte ON|OFF|1|0  
:DISPlay:REMOte?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.



## Memory Subsystem

### Compatible Commands

:MEMory:CATalog:BINary?  
:MEMory:CATalog:BIT?  
:MEMory:CATalog:CDMa?  
:MEMory:CATalog:DMOD?  
:MEMory:CATalog:DWCDma?  
:MEMory:CATalog:FCDMa?  
:MEMory:CATalog:FIR?  
:MEMory:CATalog:FSK?  
:MEMory:CATalog:FWCDma?  
:MEMory:CATalog:IQ?  
:MEMory:CATalog:LIST?  
:MEMory:CATalog:MCDMa?  
:MEMory:CATalog:MDMod?  
:MEMory:CATalog:MDWCdma?  
:MEMory:CATalog:MFCdma?  
:MEMory:CATalog:MFWCdma?  
:MEMory:CATalog:MTONE?  
:MEMory:CATalog:RCDMa?  
:MEMory:CATalog:RWCDma?  
:MEMory:CATalog:SEQ?  
:MEMory:CATalog:SHApe?  
:MEMory:CATalog:STATE?  
:MEMory:CATalog:UWCDma?  
:MEMory:CATalog:WCDMa?  
:MEMory:CATalog[:ALL]?  
:MEMory:COPY[:NAME] "<file name>","<file name>"

## ESG E44xB Commands

### System Function Commands

```
:MEMory:DATA "<file name>",<datablock>
:MEMory:DATA? "<file name>"
:MEMory:DATA:BIT "<file name>",<bit_count>,<datablock>
:MEMory:DATA:BIT? "<file name>"
:MEMory:DATA:FIR "<file name>",<osr>,<coefficient>{,<coefficient>}
:MEMory:DATA:FIR? "<file name>"
:MEMory:DATA:FSK "<file name>",<num_states>,<f0>,<f1>,...<f(n)>
[,<diff_state>,<num_diff_states>,<diff0>,<diff1>,...<diff(n)>]
:MEMory:DATA:FSK? "<file name>"
:MEMory:DATA:IQ "<file name>",<offsetQ>,<num_states>,<i0>,<q0>,<i1>,<
q1>,...<i(n)>,<q(n)>[,<diff_state>,<num_diff_states>,<diff0>,<
diff1>,...<diff(n)>]
:MEMory:DATA:IQ? "<file name>"
:MEMory:DATA:PRAM?
:MEMory:DATA:PRAM:BLOCK <datablock>
:MEMory:DATA:PRAM:LIST <uint8>{,<uint8>,<...>}
:MEMory:DATA:SHAPE "<file name>",<num_rise_points>,<rp0>,<
rp1>,...<rp(n)>,<num_fall_points>,<fp0>,<fp1>,...<fp(n)>
:MEMory:DATA:SHAPE? "<file name>"
:MEMory:DELeTe:ALL
:MEMory:DELeTe:BINary
:MEMory:DELeTe:BIT
:MEMory:DELeTe:CDMa
:MEMory:DELeTe:DMD
:MEMory:DELeTe:DWCDma
:MEMory:DELeTe:FCDMa
:MEMory:DELeTe:FIR
:MEMory:DELeTe:FSK
:MEMory:DELeTe:FWCDma
:MEMory:DELeTe:IQ
```

:MEMory:DELeTe:LIST  
:MEMory:DELeTe:MCDMa  
:MEMory:DELeTe:MMod  
:MEMory:DELeTe:MDWCdma  
:MEMory:DELeTe:MFCdma  
:MEMory:DELeTe:MFWCdma  
:MEMory:DELeTe:MTONE  
:MEMory:DELeTe:RCDMa  
:MEMory:DELeTe:RWCDma  
:MEMory:DELeTe:SEQ  
:MEMory:DELeTe:SHAPE  
:MEMory:DELeTe:STATE  
:MEMory:DELeTe:UWCDma  
:MEMory:DELeTe:WCDMa  
:MEMory:DELeTe[:NAME] "<file name>"  
:MEMory:FREE[:ALL]?  
:MEMory:LOAD:LIST "<file name>"  
:MEMory:MOVE <src\_file>,<dest\_file>  
:MEMory:STATE:COMMeNt <reg\_num>,<seq\_num>,"<comment>"  
:MEMory:STATE:COMMeNt? <reg\_num>,<seq\_num>  
:MEMory:STORE:LIST "<file name>"  
:MMEMory:CATalog? "<msus>"  
:MMEMory:COpy "<file name>",<file name>"  
:MMEMory:DATA "<file name>",<atablock>  
:MMEMory:DATA? "<file name>"  
:MMEMory:DELeTe[:NAME] "<file name>",<msus>"  
:MMEMory:LOAD:ARB:ALL  
:MMEMory:LOAD:LIST "<file name>"

## System Function Commands

:MMEMory:MOVE <src\_file>,<dest\_file>

:MMEMory:STORe:ARB:ALL

:MMEMory:STORe:LIST "<file name>"

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Output Subsystem

### Compatible Commands

:OUTPut:MODulation[:STATe] ON|OFF|1|0

:OUTPut:MODulation[:STATe]?

:OUTPut:PROTection:CLEar

:OUTPut:PROTection:TRIPped?

:OUTPut[:STATe] ON|OFF|1|0

:OUTPut[:STATe]?

### Non-Compatible Commands

:OUTPut:PROTection:MODE "NORMAL"|"8648"

:OUTPut:PROTection:MODE?

## Route Subsystem

### Compatible Commands

:ROUTE:HARDware:DGENERator:INPut:BPOLarity POSitive|NEGative

:ROUTE:HARDware:DGENERator:INPut:BPOLarity?

:ROUTE:HARDware:DGENERator:INPut:CPOLarity POSitive|NEGative

:ROUTE:HARDware:DGENERator:INPut:CPOLarity?

:ROUTE:HARDware:DGENERator:INPut:DPOLarity POSitive|NEGative

:ROUTE:HARDware:DGENERator:INPut:DPOLarity?

:ROUTE:HARDware:DGENERator:INPut:SPOLarity POSitive|NEGative

:ROUTE:HARDware:DGENERator:INPut:SPOLarity?

:ROUTE:HARDware:DGENERator:INPut:TPOLarity POSitive|NEGative

:ROUTE:HARDware:DGENERator:INPut:TPOLarity?

:ROUTE:HARDware:DGENERator:IPOLarity:BGATe POSitive|NEGative  
:ROUTE:HARDware:DGENERator:IPOLarity:BGATe?  
  
:ROUTE:HARDware:DGENERator:IPOLarity:CLOCK POSitive|NEGative  
:ROUTE:HARDware:DGENERator:IPOLarity:CLOCK?  
  
:ROUTE:HARDware:DGENERator:IPOLarity:DATA POSitive|NEGative  
:ROUTE:HARDware:DGENERator:IPOLarity:DATA?  
  
:ROUTE:HARDware:DGENERator:IPOLarity:SSYNc POSitive|NEGative  
:ROUTE:HARDware:DGENERator:IPOLarity:SSYNc?  
  
:ROUTE:HARDware:DGENERator:IPOLarity:TRIGger POSitive|NEGative  
:ROUTE:HARDware:DGENERator:IPOLarity:TRIGger?  
  
:ROUTE:HARDware:DGENERator:OPOLarity:CLOCK POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OPOLarity:CLOCK?  
  
:ROUTE:HARDware:DGENERator:OPOLarity:DATA POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OPOLarity:DATA?  
  
:ROUTE:HARDware:DGENERator:OPOLarity:SSYNc POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OPOLarity:SSYNc?  
  
:ROUTE:HARDware:DGENERator:OUTPut:CPOLarity POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OUTPut:CPOLarity?  
  
:ROUTE:HARDware:DGENERator:OUTPut:DCS[:STATe] ON|OFF|1|0  
:ROUTE:HARDware:DGENERator:OUTPut:DCS[:STATe]?  
  
:ROUTE:HARDware:DGENERator:OUTPut:DPOLarity POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OUTPut:DPOLarity?  
  
:ROUTE:HARDware:DGENERator:OUTPut:SPOLarity POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OUTPut:SPOLarity?

### Non-Compatible Commands

:ROUTE:HARDware:DGENERator:OPOLarity:EVEN[1]|2 POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OPOLarity:EVEN[1]|2?  
  
:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2 POSitive|NEGative  
:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2?

## Status Subsystem

### Compatible Commands

:STATus:OPERation:CONDition?  
:STATus:OPERation:ENABle <val>  
:STATus:OPERation:ENABle?  
  
:STATus:OPERation:NTRansition <val>  
:STATus:OPERation:NTRansition?  
  
:STATus:OPERation:PTRansition <val>  
:STATus:OPERation:PTRansition?  
  
:STATus:OPERation[:EVENT]?  
  
:STATus:PRESet  
  
:STATus:QUEStionable:BERT:CONDition?  
:STATus:QUEStionable:BERT:ENABle <val>  
:STATus:QUEStionable:BERT:ENABle?  
  
:STATus:QUEStionable:BERT:NTRansition <val>  
:STATus:QUEStionable:BERT:NTRansition?  
  
:STATus:QUEStionable:BERT:PTRansition <val>  
:STATus:QUEStionable:BERT:PTRansition?  
  
:STATus:QUEStionable:BERT[:EVENT]?  
  
:STATus:QUEStionable:CALibration:CONDition?  
:STATus:QUEStionable:CALibration:ENABle <val>  
:STATus:QUEStionable:CALibration:ENABle?  
  
:STATus:QUEStionable:CALibration:NTRansition <val>  
:STATus:QUEStionable:CALibration:NTRansition?  
  
:STATus:QUEStionable:CALibration:PTRansition <val>  
:STATus:QUEStionable:CALibration:PTRansition?  
  
:STATus:QUEStionable:CALibration[:EVENT]?  
  
:STATus:QUEStionable:CONDition?  
:STATus:QUEStionable:ENABle <val>  
:STATus:QUEStionable:ENABle?  
  
:STATus:QUEStionable:FREQuency:CONDition?

:STATus:QUESTionable:FREQuency:ENABle <val>  
:STATus:QUESTionable:FREQuency:ENABle?  
  
:STATus:QUESTionable:FREQuency:NTRansition <val>  
:STATus:QUESTionable:FREQuency:NTRansition?  
  
:STATus:QUESTionable:FREQuency:PTRansition <val>  
:STATus:QUESTionable:FREQuency:PTRansition?  
  
:STATus:QUESTionable:FREQuency[:EVENT]?  
  
:STATus:QUESTionable:MODulation:CONDition?  
  
:STATus:QUESTionable:MODulation:ENABle <val>  
:STATus:QUESTionable:MODulation:ENABle?  
  
:STATus:QUESTionable:MODulation:NTRansition <val>  
:STATus:QUESTionable:MODulation:NTRansition?  
  
:STATus:QUESTionable:MODulation:PTRansition <val>  
:STATus:QUESTionable:MODulation:PTRansition?  
  
:STATus:QUESTionable:MODulation[:EVENT]?  
  
:STATus:QUESTionable:NTRansition <val>  
:STATus:QUESTionable:NTRansition?  
  
:STATus:QUESTionable:POWer:CONDition?  
  
:STATus:QUESTionable:POWer:ENABle <val>  
:STATus:QUESTionable:POWer:ENABle?  
  
:STATus:QUESTionable:POWer:NTRansition <val>  
:STATus:QUESTionable:POWer:NTRansition?  
  
:STATus:QUESTionable:POWer:PTRansition <val>  
:STATus:QUESTionable:POWer:PTRansition?  
  
:STATus:QUESTionable:POWer[:EVENT]?  
  
:STATus:QUESTionable:PTRansition <val>  
:STATus:QUESTionable:PTRansition?  
  
:STATus:QUESTionable[:EVENT]?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## System Subsystem

### Compatible Commands

:SYSTem:CAPability?  
:SYSTem:ERRor[:NEXT]?  
:SYSTem:HELp:MODE SINGLE|CONTInuous  
:SYSTem:HELp:MODE?  
:SYSTem:LANGUage "SCPI"|"COMP"|"NADC"|"PDC"|"PHS"|"8648"  
:SYSTem:LANGUage?  
:SYSTem:PON:TYPE PRESet|LAST  
:SYSTem:PON:TYPE?  
:SYSTem:PRESet  
:SYSTem:PRESet:ALL  
:SYSTem:PRESet:LANGUage "SCPI"|"COMP"|"NADC"|"PDC"|"PHS"|"8648"  
:SYSTem:PRESet:LANGUage?  
:SYSTem:PRESet:PERsistent  
:SYSTem:PRESet:PN9 NORMal|QUICK  
:SYSTem:PRESet:PN9?  
:SYSTem:PRESet:TYPE NORMal|USER  
:SYSTem:PRESet:TYPE?  
:SYSTem:PRESet[:USER]:SAVE  
:SYSTem:SSAVer:DELay <val>  
:SYSTem:SSAVer:DELay?  
:SYSTem:SSAVer:MODE LIGHT|TEXT  
:SYSTem:SSAVer:MODE?  
:SYSTem:SSAVer:STATe ON|OFF  
:SYSTem:SSAVer:STATe?  
:SYSTem:VERsion?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.



## Trigger Subsystem

### Compatible Commands

:ABORT  
:INITiate:CONTinuous[:ALL] ON|OFF|1|0  
:INITiate:CONTinuous[:ALL]?  
:INITiate[:IMMediate][:ALL]  
:TRIGger:OUTPut:POLarity POSitive|NEGative  
:TRIGger:OUTPut:POLarity?  
:TRIGger[:SEQuence]:SLOPe POSitive|NEGative  
:TRIGger[:SEQuence]:SLOPe?  
:TRIGger[:SEQuence]:SOURce BUS|IMMediate|EXTernal|KEY  
:TRIGger[:SEQuence]:SOURce?  
:TRIGger[:SEQuence][:IMMediate]

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Unit Subsystem

### Compatible Commands

:UNIT:POWer DBM|DBUV|DBUVEMF|V|VEMF  
:UNIT:POWer?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Analog Function Commands

### Amplitude Modulation Subsystem

#### Compatible Commands

```
[ :SOURce]:AM:WIDeband:STATe ON|OFF|1|0
[ :SOURce]:AM:WIDeband:STATe?

[ :SOURce]:AM[1]|2:EXTErnal[1]|2:COUPling AC|DC
[ :SOURce]:AM[1]|2:EXTErnal[1]|2:COUPling?

[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency <val><unit>
[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency?

[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency:ALTErnate <val><unit>
[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency:ALTErnate?

[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency:ALTErnate:AMPLitude:
PERCent <val><unit>
[ :SOURce]:AM[1]|2:INTErnal[1]:FREQuency:ALTErnate:AMPLitude:PERCent?

[ :SOURce]:AM[1]|2:INTErnal[1]:FUNCTion:SHAPE <enum>
[ :SOURce]:AM[1]|2:INTErnal[1]:FUNCTion:SHAPE?

[ :SOURce]:AM[1]|2:INTErnal[1]:SWEep:TIME <val><unit>
[ :SOURce]:AM[1]|2:INTErnal[1]:SWEep:TIME?

[ :SOURce]:AM[1]|2:INTErnal[1]:SWEep:TRIGger <enum>
[ :SOURce]:AM[1]|2:INTErnal[1]:SWEep:TRIGger?

[ :SOURce]:AM[1]|2:SOURce INT[1]|EXT1|EXT2
[ :SOURce]:AM[1]|2:SOURce?

[ :SOURce]:AM[1]|2:STATE ON|OFF|1|0
[ :SOURce]:AM[1]|2:STATE?

[ :SOURce]:AM[1]|2[:DEPT]h <val><unit>
[ :SOURce]:AM[1]|2[:DEPT]h?

[ :SOURce]:AM[1]|2[:DEPT]h:TRACk ON|OFF|1|0
[ :SOURce]:AM[1]|2[:DEPT]h:TRACk?
```

## Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Frequency Subsystem

### Compatible Commands

```
[ :SOURce ]:FREQuency:FIXed <val><unit>
[ :SOURce ]:FREQuency:FIXed?

[ :SOURce ]:FREQuency:MODE CW|FIXed|LIST
[ :SOURce ]:FREQuency:MODE?

[ :SOURce ]:FREQuency:MULTiplier <val>
[ :SOURce ]:FREQuency:MULTiplier?

[ :SOURce ]:FREQuency:OFFSet <val><unit>
[ :SOURce ]:FREQuency:OFFSet?

[ :SOURce ]:FREQuency:REFerence <val><unit>
[ :SOURce ]:FREQuency:REFerence?

[ :SOURce ]:FREQuency:REFerence:STATe ON|OFF|1|0
[ :SOURce ]:FREQuency:REFerence:STATe?

[ :SOURce ]:FREQuency:START <val><unit>
[ :SOURce ]:FREQuency:START?

[ :SOURce ]:FREQuency:STOP <val><unit>
[ :SOURce ]:FREQuency:STOP?

[ :SOURce ]:FREQuency:SYNThesis <val>
[ :SOURce ]:FREQuency:SYNThesis?

[ :SOURce ]:FREQuency[:CW] <val><unit>
[ :SOURce ]:FREQuency[:CW]?

[ :SOURce ]:PHASe:REFerence

[ :SOURce ]:PHASe[:ADJust] <val><unit>
[ :SOURce ]:PHASe[:ADJust]?

[ :SOURce ]:ROSCillator:SOURce?

[ :SOURce ]:ROSCillator:SOURce:AUTO ON|OFF|1|0
[ :SOURce ]:ROSCillator:SOURce:AUTO?
```

## Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Frequency Modulation Subsystem

### Compatible Commands

```
[ :SOURce ]:FM[1]|2:EXTernal[1]|2:COUpling AC|DC  
[ :SOURce ]:FM[1]|2:EXTernal[1]|2:COUpling?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency <val><unit>  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency:ALTernate <val><unit>  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency:ALTernate?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency:ALTernate:AMPLitude:  
PERCent <val><unit>  
[ :SOURce ]:FM[1]|2:INTernal[1]:FREQuency:ALTernate:AMPLitude:PERCent?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:FUNctIon:SHApe SINE|TRIangle|SQUare|RAMP|  
NOISe|DUALsine|SWEPTsine  
[ :SOURce ]:FM[1]|2:INTernal[1]:FUNctIon:SHApe?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:SWEep:TIME <val><unit>  
[ :SOURce ]:FM[1]|2:INTernal[1]:SWEep:TIME?  
  
[ :SOURce ]:FM[1]|2:INTernal[1]:SWEep:TRIGger IMMEDIATE|KEY|EXTernal|BUS  
[ :SOURce ]:FM[1]|2:INTernal[1]:SWEep:TRIGger?  
  
[ :SOURce ]:FM[1]|2:SOURce INT[1]|EXT[1]|EXT2  
[ :SOURce ]:FM[1]|2:SOURce?  
  
[ :SOURce ]:FM[1]|2:STATe ON|OFF|1|0  
[ :SOURce ]:FM[1]|2:STATe?  
  
[ :SOURce ]:FM[1]|2[:DEViation] <val><unit>  
[ :SOURce ]:FM[1]|2[:DEViation]?  
  
[ :SOURce ]:FM[1]|2[:DEViation]:TRACk ON|OFF|1|0  
[ :SOURce ]:FM[1]|2[:DEViation]:TRACk?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## List/Sweep Subsystem

### Compatible Commands

```
[ :SOURce]:LIST:DIRection UP|DOWN  
[ :SOURce]:LIST:DIRection?  
  
[ :SOURce]:LIST:DWELl <val>{,<val>}  
[ :SOURce]:LIST:DWELl?  
  
[ :SOURce]:LIST:DWELl:POINTs?  
  
[ :SOURce]:LIST:DWELl:TYPE LIST|STEP  
[ :SOURce]:LIST:DWELl:TYPE?  
  
[ :SOURce]:LIST:FREQuency <val>{,<val>}  
[ :SOURce]:LIST:FREQuency?  
  
[ :SOURce]:LIST:FREQuency:POINTs?  
  
[ :SOURce]:LIST:MANual <val>  
[ :SOURce]:LIST:MANual?  
  
[ :SOURce]:LIST:MODE AUTO|MANual  
[ :SOURce]:LIST:MODE?  
  
[ :SOURce]:LIST:POWer <val>{,<val>}  
[ :SOURce]:LIST:POWer?  
  
[ :SOURce]:LIST:POWer:POINTs?  
  
[ :SOURce]:LIST:TRIGger:SOURce BUS|IMMediate|EXTernal|KEY  
[ :SOURce]:LIST:TRIGger:SOURce?  
  
[ :SOURce]:LIST:TYPE LIST|STEP  
[ :SOURce]:LIST:TYPE?  
  
[ :SOURce]:LIST:TYPE:LIST:INITialize:FSTep  
[ :SOURce]:LIST:TYPE:LIST:INITialize:PRESet  
  
[ :SOURce]:SWEep:DWELl <val>  
[ :SOURce]:SWEep:DWELl?  
  
[ :SOURce]:SWEep:POINTs <val>  
[ :SOURce]:SWEep:POINTs?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Low Frequency Subsystem

### Compatible Commands

```
[ :SOURce ]:LFOutput:AMPLitude <val><unit>  
[ :SOURce ]:LFOutput:AMPLitude?  
  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency?  
  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency:ALternate <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency:ALternate?  
  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency:ALternate:AMPLitude:PERCent <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:FREQuency:ALternate:AMPLitude:PERCent?  
  
[ :SOURce ]:LFOutput:FUNCTion:PERiod <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:PERiod?  
  
[ :SOURce ]:LFOutput:FUNCTion:PWIDth <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:PWIDth?  
  
[ :SOURce ]:LFOutput:FUNCTion:SHAPE <enum>  
[ :SOURce ]:LFOutput:FUNCTion:SHAPE?  
  
[ :SOURce ]:LFOutput:FUNCTion:SWEep:TIME <val><unit>  
[ :SOURce ]:LFOutput:FUNCTion:SWEep:TIME?  
  
[ :SOURce ]:LFOutput:FUNCTion:SWEep:TRIGger <enum>  
[ :SOURce ]:LFOutput:FUNCTion:SWEep:TRIGger?  
  
[ :SOURce ]:LFOutput:SOURce INT[1] | FUNCTion  
[ :SOURce ]:LFOutput:SOURce?  
  
[ :SOURce ]:LFOutput:STATE ON | OFF | 1 | 0  
[ :SOURce ]:LFOutput:STATE?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Phase Modulation Subsystem

### Compatible Commands

```
[ :SOURce]:PM[1]|2:BANDwidth|BWIDth NORMAl|HIGH
[:SOURce]:PM[1]|2:BANDwidth|BWIDth?

[:SOURce]:PM[1]|2:EXTErnal[1]:COUPling AC|DC
[:SOURce]:PM[1]|2:EXTErnal[1]:COUPling?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate:AMPLitude:
PERCent <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate:AMPLitude:PERCent?

[:SOURce]:PM[1]|2:INTernAl[1]:FUNctIon:SHAPE SINE|TRIangle|SQUare|RAMP|
NOISe|DUALsine|SWEPTsine
[:SOURce]:PM[1]|2:INTernAl[1]:FUNctIon:SHAPE?

[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TIME <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TIME?

[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TRIGger IMMEDIATE|KEY|EXTErnal|BUS
[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TRIGger?

[:SOURce]:PM[1]|2:SOURce INT[1]|EXT[1]|EXT2
[:SOURce]:PM[1]|2:SOURce?

[:SOURce]:PM[1]|2:STATE ON|OFF|1|0
[:SOURce]:PM[1]|2:STATE?

[:SOURce]:PM[1]|2[:DEViation] <val><unit>
[:SOURce]:PM[1]|2[:DEViation]?

[:SOURce]:PM[1]|2[:DEViation]:TRACk ON|OFF|1|0
[:SOURce]:PM[1]|2[:DEViation]:TRACk?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Power Subsystem

### Compatible Commands

```
[ :SOURce ] : POWer : ALC : BANDwidth | BWIDth NORMal | NARRow  
[ :SOURce ] : POWer : ALC : BANDwidth | BWIDth?  
  
[ :SOURce ] : POWer : ALC : SEARCh ON | OFF | 1 | 0 | ONCE  
[ :SOURce ] : POWer : ALC : SEARCh?  
  
[ :SOURce ] : POWer : ALC : SEARCh : REFerence FIXed | MODulated  
[ :SOURce ] : POWer : ALC : SEARCh : REFerence?  
  
[ :SOURce ] : POWer : ALC [ :STATe ] ON | OFF | 1 | 0  
[ :SOURce ] : POWer : ALC [ :STATe ] ?  
  
[ :SOURce ] : POWer : ALTerNate : AMPLitude <val>  
[ :SOURce ] : POWer : ALTerNate : AMPLitude ?  
  
[ :SOURce ] : POWer : ALTerNate : MANual MAIN | DELTA  
[ :SOURce ] : POWer : ALTerNate : MANual ?  
  
[ :SOURce ] : POWer : ALTerNate : STATe ON | OFF | 1 | 0  
[ :SOURce ] : POWer : ALTerNate : STATe ?  
  
[ :SOURce ] : POWer : ALTerNate : TRIGger [ :SOURce ] INTernal | EXTernal | MANual  
[ :SOURce ] : POWer : ALTerNate : TRIGger [ :SOURce ] ?  
  
[ :SOURce ] : POWer : ATTenuation : AUTO ON | OFF | 1 | 0  
[ :SOURce ] : POWer : ATTenuation : AUTO ?  
  
[ :SOURce ] : POWer : MODE FIXed | LIST  
[ :SOURce ] : POWer : MODE ?  
  
[ :SOURce ] : POWer : REFerence <val><unit>  
[ :SOURce ] : POWer : REFerence ?  
  
[ :SOURce ] : POWer : REFerence : STATe ON | OFF | 1 | 0  
[ :SOURce ] : POWer : REFerence : STATe ?  
  
[ :SOURce ] : POWer : START <val><unit>  
[ :SOURce ] : POWer : START ?  
  
[ :SOURce ] : POWer : STOP <val><unit>  
[ :SOURce ] : POWer : STOP ?
```



```
[ :SOURce]:POWer[:LEVel][:IMMediate]:OFFSet <val><unit>  
[:SOURce]:POWer[:LEVel][:IMMediate]:OFFSet?  
  
[:SOURce]:POWer[:LEVel][:IMMediate][:AMPLitude] <val><unit>  
[:SOURce]:POWer[:LEVel][:IMMediate][:AMPLitude]?
```

### Non-Compatible Commands

```
[ :SOURce]:POWer:ATTenuation <val><unit>  
[:SOURce]:POWer:ATTenuation?
```

## Pulse Modulation Subsystem

### Compatible Commands

```
[ :SOURce]:PULM:FAST:STATe ON|OFF|1|0  
[:SOURce]:PULM:FAST:STATe?  
  
[:SOURce]:PULM:INTernal[1]:FREQuency <val><unit>  
[:SOURce]:PULM:INTernal[1]:FREQuency?  
  
[:SOURce]:PULM:INTernal[1]:FUNctIon:SHAPE <enum>  
[:SOURce]:PULM:INTernal[1]:FUNctIon:SHAPE?  
  
[:SOURce]:PULM:INTernal[1]:PERiod <val><unit>  
[:SOURce]:PULM:INTernal[1]:PERiod?  
  
[:SOURce]:PULM:INTernal[1]:PWIDth <val><unit>  
[:SOURce]:PULM:INTernal[1]:PWIDth?  
  
[:SOURce]:PULM:SOURce INT|EXT2  
[:SOURce]:PULM:SOURce?  
  
[:SOURce]:PULM:STATe ON|OFF|1|0  
[:SOURce]:PULM:STATe?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Digital Function Commands

### AWGN Subsystem

#### Compatible Commands

```
[ :SOURce]:RADio:AWGN:ARB:BWIDth <val>  
[ :SOURce]:RADio:AWGN:ARB:BWIDth?  
  
[ :SOURce]:RADio:AWGN:ARB:LENGth <val>  
[ :SOURce]:RADio:AWGN:ARB:LENGth?  
  
[ :SOURce]:RADio:AWGN:ARB:SEED FIXEd|RANDom  
[ :SOURce]:RADio:AWGN:ARB:SEED?  
  
[ :SOURce]:RADio:AWGN:ARB[:STATe] ON|OFF|1|0  
[ :SOURce]:RADio:AWGN:ARB[:STATe]?
```

#### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

### Bluetooth Subsystem

#### Compatible Commands

```
[ :SOURce]:RADio:BLUETooth:ARB:AMADdr <val>  
[ :SOURce]:RADio:BLUETooth:ARB:AMADdr?  
  
[ :SOURce]:RADio:BLUETooth:ARB:BDADdr <val>  
[ :SOURce]:RADio:BLUETooth:ARB:BDADdr?  
  
[ :SOURce]:RADio:BLUETooth:ARB:BURSt[:STATe] ON|OFF|1|0  
[ :SOURce]:RADio:BLUETooth:ARB:BURSt[:STATe]?  
  
[ :SOURce]:RADio:BLUETooth:ARB:CGDelay <val>  
[ :SOURce]:RADio:BLUETooth:ARB:CGDelay?  
  
[ :SOURce]:RADio:BLUETooth:ARB:DATA PN9|TPN9|CPN9|<val>  
[ :SOURce]:RADio:BLUETooth:ARB:DATA?  
  
[ :SOURce]:RADio:BLUETooth:ARB:IMPairments ON|OFF|1|0  
[ :SOURce]:RADio:BLUETooth:ARB:IMPairments?
```

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN ON|OFF|1|0  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:CNR <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:CNR?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:NSEEd <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:NSEEd?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:FDRift <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:FDRift?
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:DDEVIation <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:DDEVIation?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FDType LINear|SINE  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FDType?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:FOFFset <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:FOFFset?
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FOFFset <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FOFFset?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:MINdex <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:MINdex?
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:MINdex <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:MINdex?  
  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:STERror <val>  
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:STERror?
```

```
[ :SOURce]:RADio:BLUETooth:ARB:PACKet DH1
[ :SOURce]:RADio:BLUETooth:ARB:PACKet?

[ :SOURce]:RADio:BLUETooth:ARB:RSYMBOLs <val>
[ :SOURce]:RADio:BLUETooth:ARB:RSYMBOLs?

[ :SOURce]:RADio:BLUETooth:ARB[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:BLUETooth:ARB[:STATe]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Calculate Subsystem

### Compatible Commands

```
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria:ERATe <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria:ERATe?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:
CRITeria[:SElect] ERATe|NOLimit
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria[:SElect]?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria:ERATe <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria:ERATe?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:
CRITeria[:SElect] ERATe|NOLimit
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria[:SElect]?

:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria:ERATe <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria:ERATe?

:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria[:SElect]?

:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CIB <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CIB?

:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CII <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CII?

:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:FERasure <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:FERasure?
```

```
:CALCulate:BERT[:BASEband]:COMParator:CRITeria[:SElect] FERasure|CLIB|
CLII|ANY|NOLimit
:CALCulate:BERT[:BASEband]:COMParator:CRITeria[:SElect]?

:CALCulate:BERT[:BASEband]:COMParator:MODE CEND|FHOLd
:CALCulate:BERT[:BASEband]:COMParator:MODE?

:CALCulate:BERT[:BASEband]:COMParator:THReshold <val>
:CALCulate:BERT[:BASEband]:COMParator:THReshold?

:CALCulate:BERT[:BASEband]:DISPlay:MODE PERCent|SCIENTific
:CALCulate:BERT[:BASEband]:DISPlay:MODE?

:CALCulate:BERT[:BASEband]:DISPlay:UPDate CEND|CONT
:CALCulate:BERT[:BASEband]:DISPlay:UPDate?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## CDMA ARB Subsystem

### Compatible Commands

```
[:SOURce]:RADio:CDMA:ARB:CLIPping:I <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping:I?

[:SOURce]:RADio:CDMA:ARB:CLIPping:POSition PRE|POST
[:SOURce]:RADio:CDMA:ARB:CLIPping:POSition?

[:SOURce]:RADio:CDMA:ARB:CLIPping:Q <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping:Q?

[:SOURce]:RADio:CDMA:ARB:CLIPping:TYPE IJQ|IORQ
[:SOURce]:RADio:CDMA:ARB:CLIPping:TYPE?

[:SOURce]:RADio:CDMA:ARB:CLIPping[:IJQ] <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping[:IJQ]?

[:SOURce]:RADio:CDMA:ARB:CRATe <val>
[:SOURce]:RADio:CDMA:ARB:CRATe?

[:SOURce]:RADio:CDMA:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA:ARB:FILTer?

[:SOURce]:RADio:CDMA:ARB:FILTer:ALPHa <val>
[:SOURce]:RADio:CDMA:ARB:FILTer:ALPHa?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:CDMA:ARB:FiLTer:BBT <val>
[ :SOURce]:RADio:CDMA:ARB:FiLTer:BBT?

[ :SOURce]:RADio:CDMA:ARB:FiLTer:CHANnel EVM|ACP
[ :SOURce]:RADio:CDMA:ARB:FiLTer:CHANnel?

[ :SOURce]:RADio:CDMA:ARB:IQMap NORMAl|INVerted
[ :SOURce]:RADio:CDMA:ARB:IQMap?

[ :SOURce]:RADio:CDMA:ARB:OSAMple <val>
[ :SOURce]:RADio:CDMA:ARB:OSAMple?

[ :SOURce]:RADio:CDMA:ARB:RETRigger 1|0
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:CDMA:ARB:RETRigger ON|OFF
[ :SOURce]:RADio:CDMA:ARB:RETRigger?
```

---

**NOTE** The above query for the ESG Vector Signal Generator only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

---

```
[ :SOURce]:RADio:CDMA:ARB:SETup FWD9|FWD32|FWD64|PILOt|REVerse|MCARrier|
"<file name>"
[ :SOURce]:RADio:CDMA:ARB:SETup?

[ :SOURce]:RADio:CDMA:ARB:SETup:CHANnel IS97|EQUAl|SCALE|NONE{ ,PILOt|SYNC|
PAGing|TRAFFic,<walsh_val>,<power_val>,<pnofs_val>,RANDom|<data_val>}
[ :SOURce]:RADio:CDMA:ARB:SETup:CHANnel?

[ :SOURce]:RADio:CDMA:ARB:SETup:MCARrier CAR3|CAR4|"<file name>"
[ :SOURce]:RADio:CDMA:ARB:SETup:MCARrier?

[ :SOURce]:RADio:CDMA:ARB:SETup:MCARrier:STORE "<file name>"

[ :SOURce]:RADio:CDMA:ARB:SETup:MCARrier:TABLE FWD9|FWD32|FWD64|PILOt|
CUSTom,"<file name>"|"",<freq_offset>,<power>{ ,FWD9|FWD32|FWD64|PILOt|
CUSTom,"<file name>"|"",<freq_offset>,<power>}
[ :SOURce]:RADio:CDMA:ARB:SETup:MCARrier:TABLE?

[ :SOURce]:RADio:CDMA:ARB:SETup:STORE "<file name>"
```

```
[ :SOURce]:RADio:CDMA:ARB:TRIGger:TYPE CONT|SINGLE|GATE
[:SOURce]:RADio:CDMA:ARB:TRIGger:TYPE?

[:SOURce]:RADio:CDMA:ARB:TRIGger:TYPE:GATE:ACTIVE LOW|HIGH
[:SOURce]:RADio:CDMA:ARB:TRIGger:TYPE:GATE:ACTIVE?

[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]?

[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:DELAy <val>
[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:DELAy?

[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:DELAy:STATe ON|OFF|1|0
[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:DELAy:STATe?

[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:SLOPe POSitive|NEGative
[:SOURce]:RADio:CDMA:ARB:TRIGger[:SOURce]:EXTErnal:SLOPe?

[:SOURce]:RADio:CDMA:ARB:WLENgth <val>
[:SOURce]:RADio:CDMA:ARB:WLENgth?

[:SOURce]:RADio:CDMA:ARB[:STATe] ON|OFF|1|0
[:SOURce]:RADio:CDMA:ARB[:STATe]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## CDMA2000 ARB Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:CDMA2000:ARB:CLIPping:I <10-100%>
[:SOURce]:RADio:CDMA2000:ARB:CLIPping:I?

[:SOURce]:RADio:CDMA2000:ARB:CLIPping:POSition PRE|POST
[:SOURce]:RADio:CDMA2000:ARB:CLIPping:POSition?

[:SOURce]:RADio:CDMA2000:ARB:CLIPping:Q <10-100%>
[:SOURce]:RADio:CDMA2000:ARB:CLIPping:Q?

[:SOURce]:RADio:CDMA2000:ARB:CLIPping:TYPE IJQ|IORQ
[:SOURce]:RADio:CDMA2000:ARB:CLIPping:TYPE?

[:SOURce]:RADio:CDMA2000:ARB:CLIPping[:IJQ] <10-100%>
[:SOURce]:RADio:CDMA2000:ARB:CLIPping[:IJQ]?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:CDMA2000:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA2000:ARB:FILTer?

[:SOURce]:RADio:CDMA2000:ARB:FILTer:ALPHa <val>
[:SOURce]:RADio:CDMA2000:ARB:FILTer:ALPHa?

[:SOURce]:RADio:CDMA2000:ARB:FILTer:BBT <val>
[:SOURce]:RADio:CDMA2000:ARB:FILTer:BBT?

[:SOURce]:RADio:CDMA2000:ARB:FILTer:CHANnel EVM|ACP
[:SOURce]:RADio:CDMA2000:ARB:FILTer:CHANnel?

[:SOURce]:RADio:CDMA2000:ARB:IQMap NORMal|INVert|INVerted
[:SOURce]:RADio:CDMA2000:ARB:IQMap?

[:SOURce]:RADio:CDMA2000:ARB:LINK FORWard|REVerse
[:SOURce]:RADio:CDMA2000:ARB:LINK?

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup S1Pilot|S3DPilot|S3MPilot|
S19Chan|S3D9chan|S3M9chan|MCARrier|"<file name>"
[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup?

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier CAR2|CAR3|CAR4|
"<file name>"
[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier?

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier:STORE "<file name>"

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier:TABLE INIT|APPend|
<chan_num>,S1Pilot|S3DPilot|S3MPilot|S19Chan|S3D9chan|S3M9chan|
"<file name>",<freq_offset>,<power>
[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier:TABLE? <chan_num>

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCARrier:TABLE:NCARriers?

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:STORE "<file name>"

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:APPLY

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<config>,<data_rate>,<walsh>,<power>,<pn_offset>,
RANDom|<data_val>
[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:CHANnel? <chan_num>

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:NCHannels?

[:SOURce]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:PADJust EQUal|SCALE
```



```
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:RCONfig <val>
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:RCONfig?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse: SETUpS1Pilot|S3Pilot|S15Chan|
S35Chan|S18Chan| "<file name>"
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:STORe "<file name>"

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:APPLY

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:CHANnel INIT|APPend|
<chan_num>, <chan_type>, <data_rate>, <power>, RANDom|<data_val>
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:CHANnel? <chan_num>

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:NCHannels?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:PADJust EQUal|SCALE

[ :SOURce]:RADio:CDMA2000:ARB:RETRigger 1|0
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:CDMA2000:ARB:RETRigger ON|OFF
[ :SOURce]:RADio:CDMA2000:ARB:RETRigger?
```

---

**NOTE** The above query for the ESG Vector Signal Generator only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

---

```
[ :SOURce]:RADio:CDMA2000:ARB:REVisIon?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:RATE 1|3
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:RATE?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE DIRect|MCARrier
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE:MCARrier:SPACing 1.23MHz |
1.25MHz
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE:MCARrier:SPACing?

[ :SOURce]:RADio:CDMA2000:ARB:TRIGger:TYPE CONT|SINGLE|GATE
[ :SOURce]:RADio:CDMA2000:ARB:TRIGger:TYPE?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger :TYPE :GATE :ACTive LOW | HIGH
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger :TYPE :GATE :ACTive?

[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] KEY | EXT | BUS
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ]?

[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :DELay <val>
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :DELay?

[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :DELay :
STATE ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :DELay :STATE?

[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :
SLOPe POSitive | NEGative
[ :SOURce ] :RADio :CDMA2000 :ARB :TRIGger [ :SOURce ] :EXTernal :SLOPe?

[ :SOURce ] :RADio :CDMA2000 :ARB [ :STATE ] ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 :ARB [ :STATE ]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## CDMA2000 BBG Subsystem

### Compatible Commands

```
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :LINK FORWard | REVerse
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :LINK?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :BBCLock INT [ 1 ] | EXT [ 1 ]
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :BBCLock?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :ESDelay <0.5-128.0>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :ESDelay?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :CRATe <50 cps-1.3 Mcps>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :CRATe?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :ALPHa <0-1.0>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :ALPHa?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :BBT <0-1.0>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :BBT?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :CHANnel EVM | ACP
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :FILTer :CHANnel?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|{IS95_MOD}|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:FILTer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCMask <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCState <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCState?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:PADJust EQUAL|SCALE

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity NORMal|INVERTed
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity:ALL NORMal|INVERTed
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity:ALL?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FLENgth <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FOFFset?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :POWer <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :POWer?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :RATE <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :RATE?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :WALSh <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh :SETup :WALSh?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCCCh [ :STATe ]?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCONfig <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RCONfig?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :DATA PN9 | PN15 | FIX4 |
"<file name>"
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :DATA?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :DATA :FIX4 <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :DATA :FIX4?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :FLENGth <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :FLENGth?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :FOFFset <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :FOFFset?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :POWer <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :POWer?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :RATE?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :WALSh <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh :SETup :WALSh?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RDCCh [ :STATe ]?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :DATA PN9 | PN15 | FIX4 |
"<file name>"
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :DATA?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :DATA :FIX4 <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :DATA :FIX4?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :FLENGth <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :REACH :SETup :FLENGth?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:REACH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:FLENgth <5-20>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:FOFFset <0-15>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:
RATE <1.5kbps-14.4kbps>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RFCH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:GRATE FULL|HALF|QUARter
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:GRATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:PCB <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:PCB?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:POWer?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH:SETup:WALSh?
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RPICH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:FLENGth <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:FLENGth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:TCODE ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:TCODE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH1[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:FLENGth <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:FLENGth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:POWer?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:TCODE ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:TCODE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH2[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:FLENgth <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:POWEr <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:POWEr?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RSCH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:SPReading:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:TADVance <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:TADVance?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:TEDGE RISing|FALLing
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:TEDGE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWARD]:CRATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWARD]:CRATE?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:FOffset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:FOffset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:ESN <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:ESN?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:HEADer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:HEADer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PPUNcture ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PPUNcture?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PRAMp <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PRAMp?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:QOF <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:QOF?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RCONfig <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RCONfig?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:DATA DEFault|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F1 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F1?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F2 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F2?
```



```
[ :SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F3 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F3?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:
MESSAge <bit_count>,<datablock>

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:RATE 4.8ksps|9.6ksps
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:PNOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:PNOFFset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA PN9|PN15|
FIX4|"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:ESN <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:ESN?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:HEADer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:HEADer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:QOF <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:QOF?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RCONfig <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RCONfig?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSCH [ 1 ] | 2 :SETup :TCODE ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSCH [ 1 ] | 2 :SETup :TCODE?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSCH [ 1 ] | 2 :SETup :WALSh <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSCH [ 1 ] | 2 :SETup :WALSh?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :CFRequency <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :CFRequency?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :DAYLt <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :DAYLt?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :ECFRequency <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :ECFRequency?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LCState <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LCState?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LPSec <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LPSec?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LTMoff <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :LTMoff?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :MPREv <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :MPREv?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :MSGType <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :MSGType?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :NID <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :NID?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :POWer <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :POWer?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :PRATe <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :PRATe?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :PREV <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :PREV?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :RESERved <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :RESERved?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :SID <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :SID?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :STYPe IS95 | JSTD8 | IS2000
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] [ :FORWard ] :FSYnc :SETup :STYPe?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYnc:SETup:SYSTime <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYnc:SETup:SYSTime?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYnc:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYnc:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:POLarity:ALL NORMAl|INVerted
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:POLarity:ALL?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:CCI <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:CCI?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:PI <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:PI?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:POWER <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:POWER?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:QPCH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:SPReading:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BBCLock INT[1]|EXT[1]
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BBCLock?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:ESDelay <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:ESDelay?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:ALPha <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:ALPha?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:BBT <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:BBT?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:CHANnel EVM|ACP
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FILTer:CHANnel?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYNc[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSYNc[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS[:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:OCNS[:STATE]?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:PADJust EQUAl|SCALE
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:POLarity NORMal|INVerted
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:POLarity?

[:SOURce]:RADio:CDMA2000[:BBG][:STATE] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:STATE]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:
DCOut CCLK|CLK20ms|CLK80ms|CLK4khz|CLK307khz
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:DCOut?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:DOUT LCode|IOUT|QOUT
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:DOUT?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:EVENT DESecond|PNSync
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:EVENT?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:SSOut EVENsecond|LCSync
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC12:SSOut?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:DCOut CCLK|CLK5ms|
CLK10ms|CLK20ms|CLK40ms|CLK80ms
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:DCOut?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:DOUT LCODE|PILOT |
RSCHcoded|RDCChcoded|RFCHcoded|RCCChcoded|REACHcoded|ZI|ZQ
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:DOUT?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:EVENT DESecond|PNSync
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:BNCMux:RC34:EVENT?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:PPOther <0-4>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:PPOther?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:PPOwer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:SCALE <-40dB to 0dB>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:SCALE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:TVOLtage?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:TVOther <0-4V>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQ:TVOther?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:IQRotation?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BNCMux:DOUT PCRamp|D80Trigger
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BNCMux:DOUT?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BNCMux:EVENT DESecond|D20Trigger|
D80Trigger
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:BNCMux:EVENT?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:PPOther <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:PPOther?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:PPOwer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:SCALE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:SCALE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:TVOLtage?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:TVOther <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQ:TVOther?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQRotation STANDARD|ROTated
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:IQRotation?
```

## Custom Subsystem

### Compatible Commands

```
[ :SOURce ] :RADio :CUSTom :ALPHa <val>  
[ :SOURce ] :RADio :CUSTom :ALPHa?  
  
[ :SOURce ] :RADio :CUSTom :BBCLock INT[1] | EXT[1]  
[ :SOURce ] :RADio :CUSTom :BBCLock?  
  
[ :SOURce ] :RADio :CUSTom :BBT <val>  
[ :SOURce ] :RADio :CUSTom :BBT?  
  
[ :SOURce ] :RADio :CUSTom :BRATe <val>  
[ :SOURce ] :RADio :CUSTom :BRATe?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FALL :DELay <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FALL :DELay?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FALL :TIME <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FALL :TIME?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FDELay <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FDELay?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FTIME <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :FTIME?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RDELay <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RDELay?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RISE :DELay <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RISE :DELay?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RISE :TIME <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RISE :TIME?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RTIME <val>  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE :RTIME?  
  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE [ :TYPE ] SINE | "<file name>"  
[ :SOURce ] :RADio :CUSTom :BURSt :SHAPE [ :TYPE ] ?  
  
[ :SOURce ] :RADio :CUSTom :DATA PN9 | PN11 | PN15 | PN20 | PN23 | FIX4 | "<file name>" |  
EXT | P4 | P8 | P16 | P32 | P64  
[ :SOURce ] :RADio :CUSTom :DATA?  
  
[ :SOURce ] :RADio :CUSTom :DATA :FIX4 <val>  
[ :SOURce ] :RADio :CUSTom :DATA :FIX4?
```

```
[ :SOURce]:RADio:CUSTom:DENCode ON|OFF|1|0
[ :SOURce]:RADio:CUSTom:DENCode?

[ :SOURce]:RADio:CUSTom:EDATa:DELay?

[ :SOURce]:RADio:CUSTom:EDCLock SYMBol|NORMal
[ :SOURce]:RADio:CUSTom:EDCLock?

[ :SOURce]:RADio:CUSTom:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[ :SOURce]:RADio:CUSTom:FILTer?

[ :SOURce]:RADio:CUSTom:IQ:SCALE <val>
[ :SOURce]:RADio:CUSTom:IQ:SCALE?

[ :SOURce]:RADio:CUSTom:MODulation:FSK[:DEViation] <val>
[ :SOURce]:RADio:CUSTom:MODulation:FSK[:DEViation]?

[ :SOURce]:RADio:CUSTom:MODulation:MSK[:PHASE] <val>
[ :SOURce]:RADio:CUSTom:MODulation:MSK[:PHASE]?

[ :SOURce]:RADio:CUSTom:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:CUSTom:MODulation:UFSK?

[ :SOURce]:RADio:CUSTom:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:CUSTom:MODulation:UIQ?

[ :SOURce]:RADio:CUSTom:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[ :SOURce]:RADio:CUSTom:MODulation[:TYPE]?

[ :SOURce]:RADio:CUSTom:POLarity[:ALL] NORMal|INVerted
[ :SOURce]:RADio:CUSTom:POLarity[:ALL]?

[ :SOURce]:RADio:CUSTom:REPeat SINGLE|CONTinuous
[ :SOURce]:RADio:CUSTom:REPeat?

[ :SOURce]:RADio:CUSTom:SRATE <val>
[ :SOURce]:RADio:CUSTom:SRATE?

[ :SOURce]:RADio:CUSTom:STANdard:SELEct NONE|AC4Fm|ACQPsk|BLUETOOTH|CDPD
[ :SOURce]:RADio:CUSTom:STANdard:SELEct?

[ :SOURce]:RADio:CUSTom:TRIGger[:SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:CUSTom:TRIGger[:SOURce]?

[ :SOURce]:RADio:CUSTom:TRIGger[:SOURce]:EXTErnal:DELay <val>
[ :SOURce]:RADio:CUSTom:TRIGger[:SOURce]:EXTErnal:DELay?
```

```
[ :SOURce ]:RADio:CUSTom:TRIGger[ :SOURce ]:EXTErnal:DELay:STATE ON|OFF|1|0  
[ :SOURce ]:RADio:CUSTom:TRIGger[ :SOURce ]:EXTErnal:DELay:STATE?  
  
[ :SOURce ]:RADio:CUSTom[:STATE] ON|OFF|1|0  
[ :SOURce ]:RADio:CUSTom[:STATE]?
```

### Non-Compatible Commands

```
[ :SOURce ]:RADio:CUSTom:CHANnel EVM|ACP  
[ :SOURce ]:RADio:CUSTom:CHANnel?
```

## Data Subsystem

### Compatible Commands

```
:DATA:BERT:BTS:LOOPback:EDGE:MCS5[:DATA]?  
:DATA:BERT:BTS:LOOPback:EDGE:MCS9[:DATA]?  
:DATA:BERT:BTS:LOOPback:EDGE:UNCoded[:DATA]?  
:DATA:BERT[:BASEband][:DATA]? BEC|BITC|BER|ALL|TBEC|TBIT|TBER|JUDGE  
:DATA[:DATA]? BEC|BITC|BER|ALL|TBEC|TBIT|TBER|JUDGE
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Digital Modulation Subsystem

### Compatible Commands

```
[ :SOURce ]:BURSt:SOURce EXTErnal[1]|INTErnal[1]  
[ :SOURce ]:BURSt:SOURce?  
  
[ :SOURce ]:BURSt:STATE ON|OFF|1|0  
[ :SOURce ]:BURSt:STATE?  
  
[ :SOURce ]:DM:BBFilter THROugh  
[ :SOURce ]:DM:BBFilter?  
  
[ :SOURce ]:DM:EXTErnal:ALC:BANDwidth|BWIDth NORMAl|NARRow  
[ :SOURce ]:DM:EXTErnal:ALC:BANDwidth|BWIDth?  
  
[ :SOURce ]:DM:EXTErnal:HICRest[:STATE] ON|OFF|1|0  
[ :SOURce ]:DM:EXTErnal:HICRest[:STATE]?
```



```
[ :SOURce]:DM:IQADjustment:Gain <val><unit>  
[ :SOURce]:DM:IQADjustment:Gain?  
  
[ :SOURce]:DM:IQADjustment:IOFFset <val><unit>  
[ :SOURce]:DM:IQADjustment:IOFFset?  
  
[ :SOURce]:DM:IQADjustment:QOFFset <val><unit>  
[ :SOURce]:DM:IQADjustment:QOFFset?  
  
[ :SOURce]:DM:IQADjustment:QSKew <val><unit>  
[ :SOURce]:DM:IQADjustment:QSKew?  
  
[ :SOURce]:DM:IQADjustment[:STATe] ON|OFF|1|0  
[ :SOURce]:DM:IQADjustment[:STATe]?  
  
[ :SOURce]:DM:SOURce EXTeRnal|INTeRnal[1]  
[ :SOURce]:DM:SOURce?  
  
[ :SOURce]:DM:STATe ON|OFF|1|0  
[ :SOURce]:DM:STATe?
```

### Non-Compatible Commands

```
[ :SOURce]:DM:BBFilter <val>  
[ :SOURce]:DM:BBFilter?  
  
[ :SOURce]:DM:EXTeRnal:POLarity NORMAl|INVeRted  
[ :SOURce]:DM:EXTeRnal:POLarity?
```

## Dmodulation Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:DMODulation:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|  
IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|WCDMA|AC4Fm|IS2000SR3DS|UGGaussian|  
"<user FIR>"  
[ :SOURce]:RADio:DMODulation:ARB:FILTer?  
  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:ALPHa <val>  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:ALPHa?  
  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:BBT <val>  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:BBT?  
  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:CHANnel EVM|ACP  
[ :SOURce]:RADio:DMODulation:ARB:FILTer:CHANnel?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:DMODulation:ARB:MODulation:FSK[:DEVIation] <val><unit>
[ :SOURce]:RADio:DMODulation:ARB:MODulation:FSK[:DEVIation]?

[ :SOURce]:RADio:DMODulation:ARB:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|
GRAYQPSK|OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|EDGE|MSK|FSK2|FSK4|FSK8|
FSK16|C4FM|QAM4|QAM16|QAM32|QAM64|QAM256
[ :SOURce]:RADio:DMODulation:ARB:MODulation[:TYPE]?

[ :SOURce]:RADio:DMODulation:ARB:RETRigger 1|0
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:DMODulation:ARB:RETRigger ON|OFF
[ :SOURce]:RADio:DMODulation:ARB:RETRigger?
```

---

**NOTE** The above query for the ESG Vector Signal Generator only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

---

```
[ :SOURce]:RADio:DMODulation:ARB:SETup GSM|NADC|PDC|PHS|DECT|AC4Fm|ACQPsk|
CDPD|PWT|EDGE|TETra|MCARrier| "<file name>"
[ :SOURce]:RADio:DMODulation:ARB:SETup?

[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier GSM|NADC|PDC|PHS|DECT|
AC4Fm|ACQPsk|CDPD|PWT|EDGE|TETra,<num carriers>,<freq spacing>| "<file name>"
[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier?

[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:PHASe FIXed|RANdOm
[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:PHASe?

[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:STORE "<file name>"

[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE INIT|APPend|
<carrier_num>,<GSM|NADC|PDC|PHS|DECT|AC4Fm|ACQPsk|CDPD|PWT|EDGE|TETra|
"<file name>",<freq_offset>,<power>
[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE? <carrier_num>

[ :SOURce]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE:NCARriers?

[ :SOURce]:RADio:DMODulation:ARB:SETup:STORE "<file name>"

[ :SOURce]:RADio:DMODulation:ARB:SRATE <val>
[ :SOURce]:RADio:DMODulation:ARB:SRATE?
```

```
[ :SOURce]:RADio:DMODulation:ARB:TRIGger:TYPE CONT|SINGle|GATE
[:SOURce]:RADio:DMODulation:ARB:TRIGger:TYPE?

[:SOURce]:RADio:DMODulation:ARB:TRIGger:TYPE:GATE:ACTive LOW|HIGH
[:SOURce]:RADio:DMODulation:ARB:TRIGger:TYPE:GATE:ACTive?

[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]?

[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:DELay <val>
[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:DELay?

[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:DELay:
STATe ON|OFF|1|0
[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:DELay:STATe?

[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:
SLOPe POSitive|NEGative
[:SOURce]:RADio:DMODulation:ARB:TRIGger[:SOURce]:EXTernal:SLOPe?

[:SOURce]:RADio:DMODulation:ARB[:STATe] ON|OFF|1|0
[:SOURce]:RADio:DMODulation:ARB[:STATe]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## DECT Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:DECT:ALPHa <val>
[:SOURce]:RADio:DECT:ALPHa?

[:SOURce]:RADio:DECT:BBCLock INT[1]|EXT[1]
[:SOURce]:RADio:DECT:BBCLock?

[:SOURce]:RADio:DECT:BBT <val>
[:SOURce]:RADio:DECT:BBT?

[:SOURce]:RADio:DECT:BRATe <val>
[:SOURce]:RADio:DECT:BRATe?

[:SOURce]:RADio:DECT:BURSt:PN9 NORMal|QUICK
[:SOURce]:RADio:DECT:BURSt:PN9?

[:SOURce]:RADio:DECT:BURSt:SHAPE:FALL:DELay <val>
[:SOURce]:RADio:DECT:BURSt:SHAPE:FALL:DELay?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:DECT:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:FALL:TIME?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:FDElay <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:FDElay?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:FTIME <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:FTIME?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:RDElay <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:RDElay?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:RISE:DElay <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:RISE:DElay?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:RISE:TIME?

[ :SOURce]:RADio:DECT:BURSt:SHAPE:RTIME <val>
[ :SOURce]:RADio:DECT:BURSt:SHAPE:RTIME?

[ :SOURce]:RADio:DECT:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[ :SOURce]:RADio:DECT:BURSt:SHAPE[:TYPE]?

[ :SOURce]:RADio:DECT:BURSt[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:DECT:BURSt[:STATe]?

[ :SOURce]:RADio:DECT:DATA PN9|PN11|PN15|PN20|PN23|FIX4| "<file name>"|EXT|P4|
P8|P16|P32|P64
[ :SOURce]:RADio:DECT:DATA?

[ :SOURce]:RADio:DECT:DATA:FIX4 <val>
[ :SOURce]:RADio:DECT:DATA:FIX4?

[ :SOURce]:RADio:DECT:DEfault
[ :SOURce]:RADio:DECT:EDATa:DElay?

[ :SOURce]:RADio:DECT:EDCLock SYMBOL|NORMAL
[ :SOURce]:RADio:DECT:EDCLock?

[ :SOURce]:RADio:DECT:FILTer RNYquist|NYquist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian| "<user FIR>"
[ :SOURce]:RADio:DECT:FILTer?

[ :SOURce]:RADio:DECT:IQ:SCALE <val>
[ :SOURce]:RADio:DECT:IQ:SCALE?

[ :SOURce]:RADio:DECT:MODulation:FSK[:DEVIation] <val>
[ :SOURce]:RADio:DECT:MODulation:FSK[:DEVIation]?
```

```
[ :SOURce]:RADio:DECT:MODulation:MSK[:PHASe] <val>
[ :SOURce]:RADio:DECT:MODulation:MSK[:PHASe]?

[ :SOURce]:RADio:DECT:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:DECT:MODulation:UFSK?

[ :SOURce]:RADio:DECT:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:DECT:MODulation:UIQ?

[ :SOURce]:RADio:DECT:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|
OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|
C4FM|QAM4|QAM16|QAM32|QAM64|QAM256|UIQ|UFSK
[ :SOURce]:RADio:DECT:MODulation[:TYPE]?

[ :SOURce]:RADio:DECT:POLarity[:ALL] NORMal|INVerted
[ :SOURce]:RADio:DECT:POLarity[:ALL]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4[:TYPE] CUSTom|TRAFFic|LCAPacity|
ZTRAffic|ZLCapacity
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4[:TYPE]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
CUSTom PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|FACCuracy|
DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
LCAPacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER MAIN|DELTA
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE ON|OFF|1|0
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
TRAFFic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:FIX4?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAffic:A <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAffic:A?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAffic:P <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAffic:P?
```

```
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S <val>
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S?

[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZTRaffic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0|P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]?

[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4[:TYPE] CUSTom|DUMM[1]|DUMM2|
TRAffic|LCAPacity|ZTRaffic|ZLCapacity
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4[:TYPE]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
CUSTom PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|FACCuracy|
DM1|DM0|P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S <val>  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:  
LCAPacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|  
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:  
FIX4 <val>
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:  
FIX4?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER MAIN|DELTA  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE ON|OFF|1|0  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A <val>  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P <val>  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S <val>  
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:  
TRAFFic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|  
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:  
FIX4 <val>
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:  
FIX4?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:  
ZLCapacity:A <val>
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A?
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:  
ZLCapacity:P <val>
```

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P?
```



```

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZTRaffic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4?

[:SOURce]:RADio:DECT:SECondary:RECall

[:SOURce]:RADio:DECT:SECondary:SAVE

[:SOURce]:RADio:DECT:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:DECT:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:DECT:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio:DECT:SECondary[:STATE]?

[:SOURce]:RADio:DECT:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:DECT:SOUT?

[:SOURce]:RADio:DECT:SOUT:OFFSet <val>
[:SOURce]:RADio:DECT:SOUT:OFFSet?

```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce ]:RADio:DECT:SOUT:SLOT <val>
[ :SOURce ]:RADio:DECT:SOUT:SLOT?

[ :SOURce ]:RADio:DECT:SRATe <val>
[ :SOURce ]:RADio:DECT:SRATe?

[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ] KEY | EXT | BUS
[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]?

[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal:DELAy <val>
[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal:DELAy?

[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal:DELAy:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal:DELAy:STATe?

[ :SOURce ]:RADio:DECT [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ]:RADio:DECT [ :STATe ]?
```

### Non-Compatible Commands

```
[ :SOURce ]:RADio:DECT:CHANnel EVM | ACP
[ :SOURce ]:RADio:DECT:CHANnel?

[ :SOURce ]:RADio:DECT:FCHANnel:BAND STANdard
[ :SOURce ]:RADio:DECT:FCHANnel:BAND?

[ :SOURce ]:RADio:DECT:FCHANnel:NUMBer <val>
[ :SOURce ]:RADio:DECT:FCHANnel:NUMBer?

[ :SOURce ]:RADio:DECT:FCHANnel [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ]:RADio:DECT:FCHANnel [ :STATe ]?

[ :SOURce ]:RADio:DECT:REPeat SINGle | CONTInuous
[ :SOURce ]:RADio:DECT:REPeat?

[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal [ :TYPE ] SINGle | GATE | RESet |
MANual
[ :SOURce ]:RADio:DECT:TRIGger [ :SOURce ]:EXTErnal [ :TYPE ]?
```

## Dual ARB Subsystem

### Compatible Commands

```
[ :SOURce ]:RADio:ARB:CLIPping "<file name>", IJQ | IORQ, <10-100%>

[ :SOURce ]:RADio:ARB:CLOCK:SRATe <val>
[ :SOURce ]:RADio:ARB:CLOCK:SRATe?
```

```
[ :SOURce]:RADio:ARB:MARKer:CLear "<file name>",<mkr(1|2)>,<first_point>,  
<last_point>
```

```
[ :SOURce]:RADio:ARB:MARKer:CLear:ALL "<file name>",<mkr(1|2)>
```

```
[ :SOURce]:RADio:ARB:MARKer:POLarity NEGative|POSitive  
[ :SOURce]:RADio:ARB:MARKer:POLarity?
```

```
[ :SOURce]:RADio:ARB:MARKer:RFBLank ON|OFF|1|0  
[ :SOURce]:RADio:ARB:MARKer:RFBLank?
```

```
[ :SOURce]:RADio:ARB:MARKer[:SET] "<file name>",<mkr(1|2)>,<first_point>,  
<last_point>,<skip_count>
```

```
[ :SOURce]:RADio:ARB:RETRigger 1|0
```

---

**NOTE** The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---

```
[ :SOURce]:RADio:ARB:RETRigger ON|OFF  
[ :SOURce]:RADio:ARB:RETRigger?
```

---

**NOTE** The above query for the ESG Vector Signal Generator only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

---

```
[ :SOURce]:RADio:ARB:RFILter <val>|THROUGH
```

---

**NOTE** The above command performs no function within the ESG Vector Signal Generator, however it is accepted when executed without errors. Notice that the query form of the command is not compatible.

---

```
[ :SOURce]:RADio:ARB:SCALing "<file name>",<1%-100%>
```

```
[ :SOURce]:RADio:ARB:SEquence "<file name>",<waveform>,<reps>,<mkr1(1|0)>,  
<mkr2(1|0)>{,"<waveform>",<rep>,<mkr1(1|0)>,<mkr2(1|0)>}  
[ :SOURce]:RADio:ARB:SEquence? "<file name>"
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE CONTinuous|SINGle|GATE|SADVance  
[ :SOURce]:RADio:ARB:TRIGger:TYPE?
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE:GATE:ACTive LOW|HIGH  
[ :SOURce]:RADio:ARB:TRIGger:TYPE:GATE:ACTive?
```

```
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] KEY | EXT | BUS  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] ?  
  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:DELay <val>  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:DELay ?  
  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:DELay:STATe ON | OFF | 1 | 0  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:DELay:STATe ?  
  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:SLOPe POSitive | NEGative  
[ :SOURce ] :RADio:ARB:TRIGger [ :SOURce ] :EXTernal:SLOPe ?  
  
[ :SOURce ] :RADio:ARB:WAVEform "<file name>"  
[ :SOURce ] :RADio:ARB:WAVEform ?  
  
[ :SOURce ] :RADio:ARB [ :STATe ] ON | OFF | 1 | 0  
[ :SOURce ] :RADio:ARB [ :STATe ] ?
```

### Non-Compatible Commands

```
[ :SOURce ] :RADio:ARB:RFILter ?  
  
[ :SOURce ] :RADio:ARB:CLOCK:REFerence:EXTernal:FREQuency <val>  
[ :SOURce ] :RADio:ARB:CLOCK:REFerence:EXTernal:FREQuency ?
```

---

**NOTE** Using the above command will set the external frequency value for all arb personalities. The ESG Vector Signal Generator has commands to set the external frequency for each arb personality. For more information on this command, see the *SCPI Command Reference*.

---

```
[ :SOURce ] :RADio:ARB:CLOCK:REFerence [ :SOURce ] INTernal | EXTernal  
[ :SOURce ] :RADio:ARB:CLOCK:REFerence [ :SOURce ] ?
```

---

**NOTE** Using the above command will set the reference source to internal or external for all arb personalities. The ESG Vector Signal Generator has commands to set the reference source for each arb personality. For more information on this command, see the *SCPI Command Reference*.

---

## EDGE Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:EDGE:ALPHA <val>  
[ :SOURce]:RADio:EDGE:ALPHA?  
  
[ :SOURce]:RADio:EDGE:BBClock INT[1]|EXT[1]  
[ :SOURce]:RADio:EDGE:BBClock?  
  
[ :SOURce]:RADio:EDGE:BBT <val>  
[ :SOURce]:RADio:EDGE:BBT?  
  
[ :SOURce]:RADio:EDGE:BNCMux:DCOut BCLock|GCLock  
[ :SOURce]:RADio:EDGE:BNCMux:DCOut?  
  
[ :SOURce]:RADio:EDGE:BNCMux:DOUT MDATa|EDATa  
[ :SOURce]:RADio:EDGE:BNCMux:DOUT?  
  
[ :SOURce]:RADio:EDGE:BNCMux:EVENT MTRigger|FTRigger  
[ :SOURce]:RADio:EDGE:BNCMux:EVENT?  
  
[ :SOURce]:RADio:EDGE:BNCMux:SSOut IGAT|TBSync  
[ :SOURce]:RADio:EDGE:BNCMux:SSOut?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:DElay <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:DElay?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:TIME <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:TIME?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FDElay <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FDElay?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FTIME <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FTIME?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RDElay <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RDElay?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:DElay <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:DElay?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:TIME <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:TIME?  
  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RTIME <val>  
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RTIME?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:EDGE:BURSt:SHAPE[:TYPE] SINE | "<file name>"
[ :SOURce]:RADio:EDGE:BURSt:SHAPE[:TYPE]?

[ :SOURce]:RADio:EDGE:BURSt[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:EDGE:BURSt[:STATe]?

[ :SOURce]:RADio:EDGE:DATA PN9|PN15|FIX4 | "<file name>" |EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:EDGE:DATA?

[ :SOURce]:RADio:EDGE:DATA:FIX4 <val>
[ :SOURce]:RADio:EDGE:DATA:FIX4?

[ :SOURce]:RADio:EDGE:DEFault
[ :SOURce]:RADio:EDGE:EDATa:DELay?

[ :SOURce]:RADio:EDGE:EDCLock SYMBOL|NORMal
[ :SOURce]:RADio:EDGE:EDCLock?

[ :SOURce]:RADio:EDGE:EREFerence ON|OFF|1|0
[ :SOURce]:RADio:EDGE:EREFerence?

[ :SOURce]:RADio:EDGE:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|EDGE|AC4Fm|IS2000SR3DS|UGGaussian | "<user FIR>"
[ :SOURce]:RADio:EDGE:FILTer?

[ :SOURce]:RADio:EDGE:IQ:SCALE <val>
[ :SOURce]:RADio:EDGE:IQ:SCALE?

[ :SOURce]:RADio:EDGE:MODulation:FSK[:DEViation] <val>
[ :SOURce]:RADio:EDGE:MODulation:FSK[:DEViation]?

[ :SOURce]:RADio:EDGE:MODulation:MSK[:PHASe] <val>
[ :SOURce]:RADio:EDGE:MODulation:MSK[:PHASe]?

[ :SOURce]:RADio:EDGE:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:EDGE:MODulation:UFSK?

[ :SOURce]:RADio:EDGE:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:EDGE:MODulation:UIQ?

[ :SOURce]:RADio:EDGE:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|EDGE|UIQ|UFSK
[ :SOURce]:RADio:EDGE:MODulation[:TYPE]?

[ :SOURce]:RADio:EDGE:POLarity[:ALL] NORMal|INVerted
[ :SOURce]:RADio:EDGE:POLarity[:ALL]?

[ :SOURce]:RADio:EDGE:SECondary:RECall
```

```
[ :SOURce]:RADio:EDGE:SECondary:SAVE
[ :SOURce]:RADio:EDGE:SECondary:TRIGger[ :SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:EDGE:SECondary:TRIGger[ :SOURce]?
[ :SOURce]:RADio:EDGE:SECondary[ :STATE] ON|OFF|1|0
[ :SOURce]:RADio:EDGE:SECondary[ :STATE]?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4 <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom:GUARd <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:CUSTom:GUARd?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64|DMCS9|UMCS9|DMCS5|UMCS5|ETCHF43|UNCodeD
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS5:
DATA PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS5:DATA?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS9:
DATA PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS9:DATA?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ETCH:F43:
DATA PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ETCH:F43:DATA?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:FIX4 <0-15>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:FIX4?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS5:
DATA PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS5:DATA?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS9:
DATA PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS9:DATA?
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:UNCodeD PN9|PN15
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:UNCodeD?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:GUARd <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:GUARd?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:T1 <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:T1?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:T2 <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:T2?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:TSEquence TSC0|TSC1|TSC2|
TSC3|TSC4|TSC5|TSC6|TSC7| <val>
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:NORMAl:TSEquence?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:POWer MAIN|DELTA
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:POWer?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:STATe ON|OFF|1|0
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7:STATe?

[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7[:TYPE] CUSTom|NORMAl|NORMAl_ALL
[ :SOURce]:RADio:EDGE:SLOT0|[1]|2|3|4|5|6|7[:TYPE]?

[ :SOURce]:RADio:EDGE:SOUT FRAME|SLOT|ALL
[ :SOURce]:RADio:EDGE:SOUT?

[ :SOURce]:RADio:EDGE:SOUT:OFFSet <val>
[ :SOURce]:RADio:EDGE:SOUT:OFFSet?

[ :SOURce]:RADio:EDGE:SOUT:SLOT <val>
[ :SOURce]:RADio:EDGE:SOUT:SLOT?

[ :SOURce]:RADio:EDGE:SRATe <val>
[ :SOURce]:RADio:EDGE:SRATe?

[ :SOURce]:RADio:EDGE:TRIGger[:SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:EDGE:TRIGger[:SOURce]?

[ :SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnAl:DELAY <val>
[ :SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnAl:DELAY?

[ :SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnAl:DELAY:STATe ON|OFF|1|0
[ :SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnAl:DELAY:STATe?

[ :SOURce]:RADio:EDGE[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:EDGE[:STATe]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:EDGE:CHANnel EVM|ACP
[ :SOURce]:RADio:EDGE:CHANnel?
```



```
[ :SOURce]:RADio:EDGE:FCHannel:BAND BPGSm|MPGSm|BEGSm|MEGSm|BRGSm|MRGSm|BDCS|  
MDCS|BPCS|MPCS  
[:SOURce]:RADio:EDGE:FCHannel:BAND?  
  
[:SOURce]:RADio:EDGE:FCHannel:NUMBER <val>  
[:SOURce]:RADio:EDGE:FCHannel:NUMBER?  
  
[:SOURce]:RADio:EDGE:FCHannel[:STATe] ON|OFF|1|0  
[:SOURce]:RADio:EDGE:FCHannel[:STATe]?  
  
[:SOURce]:RADio:EDGE:REPeat SINGLE|CONTinuous  
[:SOURce]:RADio:EDGE:REPeat?  
  
[:SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|  
RESet|MANual  
[:SOURce]:RADio:EDGE:TRIGger[:SOURce]:EXTErnal[:TYPE]?
```

## GSM Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:GSM:ALPHa <val>  
[:SOURce]:RADio:GSM:ALPHa?  
  
[:SOURce]:RADio:GSM:BBCLock INT[1]|EXT[1]  
[:SOURce]:RADio:GSM:BBCLock?  
  
[:SOURce]:RADio:GSM:BBT <val>  
[:SOURce]:RADio:GSM:BBT?  
  
[:SOURce]:RADio:GSM:BRATe <val>  
[:SOURce]:RADio:GSM:BRATe?  
  
[:SOURce]:RADio:GSM:BURSt:PN9 NORMAl|QUICK  
[:SOURce]:RADio:GSM:BURSt:PN9?  
  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FALL:DELAy <val>  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FALL:DELAy?  
  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FALL:TIME <val>  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FALL:TIME?  
  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FDELAy <val>  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FDELAy?  
  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FTIME <val>  
[:SOURce]:RADio:GSM:BURSt:SHAPE:FTIME?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:GSM:BURSt:SHAPE:RDElay <val>
[ :SOURce]:RADio:GSM:BURSt:SHAPE:RDElay?

[ :SOURce]:RADio:GSM:BURSt:SHAPE:RISE:DElay <val>
[ :SOURce]:RADio:GSM:BURSt:SHAPE:RISE:DElay?

[ :SOURce]:RADio:GSM:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce]:RADio:GSM:BURSt:SHAPE:RISE:TIME?

[ :SOURce]:RADio:GSM:BURSt:SHAPE:RTIME <val>
[ :SOURce]:RADio:GSM:BURSt:SHAPE:RTIME?

[ :SOURce]:RADio:GSM:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[ :SOURce]:RADio:GSM:BURSt:SHAPE[:TYPE]?

[ :SOURce]:RADio:GSM:BURSt[:STATE] ON|OFF|1|0
[ :SOURce]:RADio:GSM:BURSt[:STATE]?

[ :SOURce]:RADio:GSM:DATA PN9|PN15|FIX4| "<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:GSM:DATA?

[ :SOURce]:RADio:GSM:DATA:FIX4 <val>
[ :SOURce]:RADio:GSM:DATA:FIX4?

[ :SOURce]:RADio:GSM:DEFault

[ :SOURce]:RADio:GSM:DENCode ON|OFF|1|0
[ :SOURce]:RADio:GSM:DENCode?

[ :SOURce]:RADio:GSM:EDATa:DElay?

[ :SOURce]:RADio:GSM:EDCLock SYMBOL|NORMal
[ :SOURce]:RADio:GSM:EDCLock?

[ :SOURce]:RADio:GSM:EREference ON|OFF|1|0
[ :SOURce]:RADio:GSM:EREference?

[ :SOURce]:RADio:GSM:FILTer RNYquist|NYquist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|GSM|AC4Fm|IS2000SR3DS|UGGaussian| "<user FIR>"
[ :SOURce]:RADio:GSM:FILTer?

[ :SOURce]:RADio:GSM:IQ:SCALE <val>
[ :SOURce]:RADio:GSM:IQ:SCALE?

[ :SOURce]:RADio:GSM:MODulation:FSK[:DEVIation] <val>
[ :SOURce]:RADio:GSM:MODulation:FSK[:DEVIation]?

[ :SOURce]:RADio:GSM:MODulation:MSK[:PHASe] <val>
[ :SOURce]:RADio:GSM:MODulation:MSK[:PHASe]?
```

```
[ :SOURce]:RADio:GSM:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:GSM:MODulation:UFSK?

[ :SOURce]:RADio:GSM:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:GSM:MODulation:UIQ?

[ :SOURce]:RADio:GSM:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|GSM|UIQ|UFSK
[ :SOURce]:RADio:GSM:MODulation[:TYPE]?

[ :SOURce]:RADio:GSM:POLarity[:ALL] NORMal|INVerted
[ :SOURce]:RADio:GSM:POLarity[:ALL]?

[ :SOURce]:RADio:GSM:SECondary:RECall
[ :SOURce]:RADio:GSM:SECondary:SAVE

[ :SOURce]:RADio:GSM:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:GSM:SECondary:TRIGger[:SOURce]?

[ :SOURce]:RADio:GSM:SECondary[:STATE] ON|OFF|1|0
[ :SOURce]:RADio:GSM:SECondary[:STATE]?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:
ENCryption PN9|PN15|FIX4|"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCryption?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCryption:FIX4 <val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCryption:FIX4?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ETAil <val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ETAil?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:SSEquence <val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:SSEquence?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4 <val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:DUMMy:TSEquence TSC0|TSC1|
TSC2|TSC3|TSC4|TSC5|TSC6|TSC7|<val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:DUMMy:TSEquence?

[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom <val>
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64|MPN9|MPN15|TCHFS|CS1|CS4|DMCS1|UMCS1
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:CS1:DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:CS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:CS4:DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:CS4:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS1:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:DLINK:MCS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:FIX4 <0-15>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:FIX4?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:TCH:FS:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:TCH:FS:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS1:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCRyption:ULINK:MCS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:STeal <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:STeal?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:TSEquence TSC0|TSC1|TSC2|
TSC3|TSC4|TSC5|TSC6|TSC7|<val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:TSEquence?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:POWer MAIN|DELTA
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:POWer?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:STATe ON|OFF|1|0
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:STATe?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption:FIX4 <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption:FIX4?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption:TSEquence <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCRyption:TSEquence?
```

```
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7[:TYPE] CUSTom|NORMal|NORMAL_ALL
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7[:TYPE]?

[:SOURce]:RADio:GSM:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:GSM:SOUT?

[:SOURce]:RADio:GSM:SOUT:OFFSet <val>
[:SOURce]:RADio:GSM:SOUT:OFFSet?

[:SOURce]:RADio:GSM:SOUT:SLOT <val>
[:SOURce]:RADio:GSM:SOUT:SLOT?

[:SOURce]:RADio:GSM:SRATe <val>
[:SOURce]:RADio:GSM:SRATe?

[:SOURce]:RADio:GSM:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:GSM:TRIGger[:SOURce]?

[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal:DELay <val>
[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal:DELay?

[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal:DELay:STATe ON|OFF|1|0
[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal:DELay:STATe?

[:SOURce]:RADio:GSM[:STATe] ON|OFF|1|0
[:SOURce]:RADio:GSM[:STATe]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:GSM:CHANnel EVM|ACP
[:SOURce]:RADio:GSM:CHANnel?

[:SOURce]:RADio:GSM:FCHannel:BAND BPGSm|MPGSm|BEGSm|MEGSm|BRGSm|MRGSm|BDCS|
MDCS|BPCS|MPCS
[:SOURce]:RADio:GSM:FCHannel:BAND?

[:SOURce]:RADio:GSM:FCHannel:NUMBer <val>
[:SOURce]:RADio:GSM:FCHannel:NUMBer?

[:SOURce]:RADio:GSM:FCHannel[:STATe] ON|OFF|1|0
[:SOURce]:RADio:GSM:FCHannel[:STATe]?

[:SOURce]:RADio:GSM:REPeat SINGLE|CONTinuous
[:SOURce]:RADio:GSM:REPeat?

[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal[:TYPE] SINGLE|GATE|
RESet|MANual
[:SOURce]:RADio:GSM:TRIGger[:SOURce]:EXTernal[:TYPE]?
```

## Input Subsystem

### Compatible Commands

```
:INPut:BERT[:BASEband]:CGATe:POLarity POSitive|NEGative  
:INPut:BERT[:BASEband]:CGATe:POLarity?  
  
:INPut:BERT[:BASEband]:CGATe[:STATe] ON|OFF|1|0  
:INPut:BERT[:BASEband]:CGATe[:STATe]?  
  
:INPut:BERT[:BASEband]:CLOCK:POLarity POSitive|NEGative  
:INPut:BERT[:BASEband]:CLOCK:POLarity?  
  
:INPut:BERT[:BASEband]:DATA:POLarity POSitive|NEGative  
:INPut:BERT[:BASEband]:DATA:POLarity?  
  
:INPut:BERT[:BASEband]:IMPedance OHM_75|HIGH  
:INPut:BERT[:BASEband]:IMPedance?
```

### Non-Compatible Commands

```
:INPut:BERT[:BASEband]:IMPedance TTL
```

## Measure Subsystem

### Compatible Commands

```
:MEASure[:SCALar]:BERT:BTS:LOOPback:EDGE:MCS5[:SENSitivity]?  
:MEASure[:SCALar]:BERT:BTS:LOOPback:EDGE:MCS9[:SENSitivity]?  
:MEASure[:SCALar]:BERT:BTS:LOOPback:EDGE:UNCoded[:SENSitivity]?  
:MEASure[:SCALar]:BERT:BTS:LOOPback:GSM[:SENSitivity]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Multi-Tone Subsystem

### Compatible Commands

```
[:SOURce]:RADio:MTONE:ARB:SETup "<file name>"  
[:SOURce]:RADio:MTONE:ARB:SETup?  
[:SOURce]:RADio:MTONE:ARB:SETup:STORE "<file name>"
```

```
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE <freq_spacing>,<num_tones>{,<phase>,<state>}  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE?  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:FSPacing <freq_spacing>  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:FSPacing?  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:NTONES <num_tones>  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:NTONES?  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASE:INITialize FIXEd|RANDom  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASE:INITialize?  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASE:INITialize:SEED FIXEd|RANDom  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASE:INITialize:SEED?  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:ROW <row_number>,<power>,<phase>,<state>  
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:ROW? <row_number>  
[ :SOURce]:RADio:MTONE:ARB[:STATe] ON|OFF|1|0  
[ :SOURce]:RADio:MTONE:ARB[:STATe]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## NADC Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:NADC:BURSt:SHAPE[:TYPE] SINE|"<file name>"  
[ :SOURce]:RADio:NADC:BURSt:SHAPE[:TYPE]?  
[ :SOURce]:RADio[:NADC]:ALPHa <val>  
[ :SOURce]:RADio[:NADC]:ALPHa?  
[ :SOURce]:RADio[:NADC]:BBCLock INT[1]|EXT[1]  
[ :SOURce]:RADio[:NADC]:BBCLock?  
[ :SOURce]:RADio[:NADC]:BBT <val>  
[ :SOURce]:RADio[:NADC]:BBT?  
[ :SOURce]:RADio[:NADC]:BRATe <val>  
[ :SOURce]:RADio[:NADC]:BRATe?  
[ :SOURce]:RADio[:NADC]:BURSt:PN9 NORMal|QUICK  
[ :SOURce]:RADio[:NADC]:BURSt:PN9?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :DELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :DELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :TIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :TIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FDELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FDELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FTIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FTIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RDELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RDELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :DELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :DELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :TIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :TIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RTIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RTIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt [ :STATE ] ON | OFF | 1 | 0
[ :SOURce ] :RADio [ :NADC ] :BURSt [ :STATE ]?

[ :SOURce ] :RADio [ :NADC ] :CHANnel EVM | ACP
[ :SOURce ] :RADio [ :NADC ] :CHANnel?

[ :SOURce ] :RADio [ :NADC ] :DATA PN9 | PN11 | PN15 | PN20 | PN23 | FIX4 | "<file name>" |
EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ] :RADio [ :NADC ] :DATA?

[ :SOURce ] :RADio [ :NADC ] :DATA :FIX4 <val>
[ :SOURce ] :RADio [ :NADC ] :DATA :FIX4?

[ :SOURce ] :RADio [ :NADC ] :DEFault

[ :SOURce ] :RADio [ :NADC ] :EDATa :DELay?

[ :SOURce ] :RADio [ :NADC ] :EDCLock SYMBol | NORMal
[ :SOURce ] :RADio [ :NADC ] :EDCLock?

[ :SOURce ] :RADio [ :NADC ] :FCHannel :BAND BASE | MOBILE
[ :SOURce ] :RADio [ :NADC ] :FCHannel :BAND?

[ :SOURce ] :RADio [ :NADC ] :FCHannel :NUMBER <number>
[ :SOURce ] :RADio [ :NADC ] :FCHannel :NUMBER?
```



```
[ :SOURce]:RADio[:NADC]:FCHannel[:STATE] ON|OFF|1|0
[:SOURce]:RADio[:NADC]:FCHannel[:STATE]?

[:SOURce]:RADio[:NADC]:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio[:NADC]:FILTer?

[:SOURce]:RADio[:NADC]:FRATe FULL|HALF
[:SOURce]:RADio[:NADC]:FRATe?

[:SOURce]:RADio[:NADC]:IQ:SCALE <val>
[:SOURce]:RADio[:NADC]:IQ:SCALE?

[:SOURce]:RADio[:NADC]:MODulation:FSK[:DEViation] <val><unit>
[:SOURce]:RADio[:NADC]:MODulation:FSK[:DEViation]?

[:SOURce]:RADio[:NADC]:MODulation:MSK[:PHASE] <val><unit>
[:SOURce]:RADio[:NADC]:MODulation:MSK[:PHASE]?

[:SOURce]:RADio[:NADC]:MODulation:UFSK "<file name>"
[:SOURce]:RADio[:NADC]:MODulation:UFSK?

[:SOURce]:RADio[:NADC]:MODulation:UIQ "<file name>"
[:SOURce]:RADio[:NADC]:MODulation:UIQ?

[:SOURce]:RADio[:NADC]:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio[:NADC]:MODulation[:TYPE]?

[:SOURce]:RADio[:NADC]:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio[:NADC]:POLarity[:ALL]?

[:SOURce]:RADio[:NADC]:REPeat SINGLE|CONTinuous
[:SOURce]:RADio[:NADC]:REPeat?

[:SOURce]:RADio[:NADC]:SECondary:RECall
[:SOURce]:RADio[:NADC]:SECondary:SAVE

[:SOURce]:RADio[:NADC]:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio[:NADC]:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio[:NADC]:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio[:NADC]:SECondary[:STATE]?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DCCustom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DCCustom?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DCCustom:FIX4 <val>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DCCustom:FIX4?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:CDLocator <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:CDLocator?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:CDVCcode <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:CDVCcode?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:SACChannel <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:SACChannel?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:SWORd <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel:SWORd?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel[:DATA]?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel[:DATA]:FIX4 <val>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:DTCHannel[:DATA]:FIX4?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:POWER MAIN|DELTA
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:POWER?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:STATE ON|OFF|1|0
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:STATE?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UCUStom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UCUStom?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UCUStom:FIX4 <val>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UCUStom:FIX4?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:CDVCcode <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:CDVCcode?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SACChannel <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SACChannel?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SWORd <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SWORd?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]:FIX4 <val>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]:FIX4?
```

```
[ :SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6[:TYPE] UCUStom|DCUStom|UTCH|
UTCH_ALL|DTCH|DTCH_ALL
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6[:TYPE]?

[:SOURce]:RADio[:NADC]:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio[:NADC]:SOUT?

[:SOURce]:RADio[:NADC]:SOUT:OFFSet <val>
[:SOURce]:RADio[:NADC]:SOUT:OFFSet?

[:SOURce]:RADio[:NADC]:SOUT:SLOT <val>
[:SOURce]:RADio[:NADC]:SOUT:SLOT?

[:SOURce]:RADio[:NADC]:SRATE <val>
[:SOURce]:RADio[:NADC]:SRATE?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal:DELAy:STATE ON|OFF|1|0
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal:DELAy:STATE?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|RESet|
MANual
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal[:TYPE]?

[:SOURce]:RADio[:NADC][:STATE] ON|OFF|1|0
[:SOURce]:RADio[:NADC][:STATE]?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## PDC Subsystem

### Compatible Commands

```
[ :SOURce]:RADio:PDC:ALPHA <val>
[:SOURce]:RADio:PDC:ALPHA?

[:SOURce]:RADio:PDC:BBCLock INT[1]|EXT[1]
[:SOURce]:RADio:PDC:BBCLock?

[:SOURce]:RADio:PDC:BBT <val>
[:SOURce]:RADio:PDC:BBT?

[:SOURce]:RADio:PDC:BRATE <val>
[:SOURce]:RADio:PDC:BRATE?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:PDC:BURSt:PN9 NORMAl|QUICK
[ :SOURce]:RADio:PDC:BURSt:PN9?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:FALL:DELay <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:FALL:DELay?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:FALL:TIME?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:FDELay <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:FDELay?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:FTIME <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:FTIME?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:RDELay <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:RDELay?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:RISE:DELay <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:RISE:DELay?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:RISE:TIME?

[ :SOURce]:RADio:PDC:BURSt:SHAPE:RTIME <val>
[ :SOURce]:RADio:PDC:BURSt:SHAPE:RTIME?

[ :SOURce]:RADio:PDC:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[ :SOURce]:RADio:PDC:BURSt:SHAPE[:TYPE]

[ :SOURce]:RADio:PDC:BURSt[:STATE] ON|OFF|1|0
[ :SOURce]:RADio:PDC:BURSt[:STATE]?

[ :SOURce]:RADio:PDC:DATA PN9|PN11|PN15|PN20|PN23|FIX4| "<file name>" |
EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PDC:DATA?

[ :SOURce]:RADio:PDC:DATA:FIX4 <0-15>
[ :SOURce]:RADio:PDC:DATA:FIX4?

[ :SOURce]:RADio:PDC:DEFault
[ :SOURce]:RADio:PDC:EDATa:DELay?

[ :SOURce]:RADio:PDC:EDCLock SYMBol|NORMAl
[ :SOURce]:RADio:PDC:EDCLock?

[ :SOURce]:RADio:PDC:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95 |
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian| "<user FIR>"
[ :SOURce]:RADio:PDC:FILTer?
```

```
[ :SOURce]:RADio:PDC:FRATe FULL|HALF
[ :SOURce]:RADio:PDC:FRATe?

[ :SOURce]:RADio:PDC:IQ:SCALe <val>
[ :SOURce]:RADio:PDC:IQ:SCALe?

[ :SOURce]:RADio:PDC:MODulation:FSK[:DEViation] <val><unit>
[ :SOURce]:RADio:PDC:MODulation:FSK[:DEViation]?

[ :SOURce]:RADio:PDC:MODulation:MSK[:PHASe] <val><unit>
[ :SOURce]:RADio:PDC:MODulation:MSK[:PHASe]?

[ :SOURce]:RADio:PDC:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:PDC:MODulation:UFSK?

[ :SOURce]:RADio:PDC:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:PDC:MODulation:UIQ

[ :SOURce]:RADio:PDC:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|
OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|
FSK16|C4FM|QAM4|QAM16|QAM32|QAM64|QAM256|UIQ|UFSK
[ :SOURce]:RADio:PDC:MODulation[:TYPE]?

[ :SOURce]:RADio:PDC:POLarity[:ALL] NORMal|INVerted
[ :SOURce]:RADio:PDC:POLarity[:ALL]?

[ :SOURce]:RADio:PDC:SECondary:RECall
[ :SOURce]:RADio:PDC:SECondary:SAVE

[ :SOURce]:RADio:PDC:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:PDC:SECondary:TRIGger[:SOURce]?

[ :SOURce]:RADio:PDC:SECondary[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:PDC:SECondary[:STATe]?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DCUStom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DCUStom?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DCUStom:FIX4 <0-15>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DCUStom:FIX4?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:CCODE <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:CCODE?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:SACChannel <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:SACChannel?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:SWORd <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel:SWORd?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel[:TCHannel] PN9|PN15|
FIX4|"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel[:TCHannel]?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel[:TCHannel]:FIX4 <0-15>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:DTCHannel[:TCHannel]:FIX4?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:POWer MAIN|DELTA
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:POWer?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:STATe ON|OFF|1|0
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:STATe?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UCUStom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UCUStom?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UCUStom:FIX4 <0-15>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UCUStom:FIX4?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:CCODE <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:CCODE?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:SACChannel <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:SACChannel?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:SWORd <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel:SWORd?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel[:TCHannel] PN9|PN15|
FIX4|"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel[:TCHannel]?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel[:TCHannel]:FIX4 <0-15>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UTCHannel[:TCHannel]:FIX4?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:CCODE <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:CCODE?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:SACChannel <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:SACChannel?

[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:SWORd <bit_pattern>
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5:UVOX:SWORd?
```

```
[ :SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5[:TYPE] UCUSTom|DCUSTom|UTCH|
UTCH_ALL|UVOX|DTCH|DTCH_ALL
[:SOURce]:RADio:PDC:SLOT0|[1]|2|3|4|5[:TYPE]?

[:SOURce]:RADio:PDC:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:PDC:SOUT?

[:SOURce]:RADio:PDC:SOUT:OFFSet <val>
[:SOURce]:RADio:PDC:SOUT:OFFSet?

[:SOURce]:RADio:PDC:SOUT:SLOT <val>
[:SOURce]:RADio:PDC:SOUT:SLOT?

[:SOURce]:RADio:PDC:SRATe <val>
[:SOURce]:RADio:PDC:SRATe?

[:SOURce]:RADio:PDC:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PDC:TRIGger[:SOURce]?

[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy <val>
[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy?

[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy:STATe ON|OFF|1|0
[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy:STATe?

[:SOURce]:RADio:PDC[:STATe] ON|OFF|1|0
[:SOURce]:RADio:PDC[:STATe]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:PDC:CHANnel EVM|ACP
[:SOURce]:RADio:PDC:CHANnel?

[:SOURce]:RADio:PDC:FCHannel:BAND B8|M8|B15|M15
[:SOURce]:RADio:PDC:FCHannel:BAND?

[:SOURce]:RADio:PDC:FCHannel:NUMBer <number>
[:SOURce]:RADio:PDC:FCHannel:NUMBer?

[:SOURce]:RADio:PDC:FCHannel[:STATe] ON|OFF|1|0
[:SOURce]:RADio:PDC:FCHannel[:STATe]?

[:SOURce]:RADio:PDC:REPeat SINGLE|CONTInous
[:SOURce]:RADio:PDC:REPeat?

[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|RESet
[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal[:TYPE]?
```

## PHS Subsystem

### Compatible Commands

```
[ :SOURce ] :RADio:PHS:ALPHa <val>  
[ :SOURce ] :RADio:PHS:ALPHa?  
  
[ :SOURce ] :RADio:PHS:BBCLock INT[1] | EXT[1]  
[ :SOURce ] :RADio:PHS:BBCLock?  
  
[ :SOURce ] :RADio:PHS:BBT <val>  
[ :SOURce ] :RADio:PHS:BBT?  
  
[ :SOURce ] :RADio:PHS:BRATe <val>  
[ :SOURce ] :RADio:PHS:BRATe?  
  
[ :SOURce ] :RADio:PHS:BURSt:PN9 NORMal | QUICk  
[ :SOURce ] :RADio:PHS:BURSt:PN9?  
  
[ :SOURce ] :RADio:PHS:BURSt:SCRamble:SEED <16-bit val>  
[ :SOURce ] :RADio:PHS:BURSt:SCRamble:SEED?  
  
[ :SOURce ] :RADio:PHS:BURSt:SCRamble[:STATe] ON | OFF | 1 | 0  
[ :SOURce ] :RADio:PHS:BURSt:SCRamble[:STATe]?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FALL:DELay <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FALL:DELay?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FALL:TIME <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FALL:TIME?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FDELay <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FDELay?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FTIME <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:FTIME?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RDELay <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RDELay?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RISE:DELay <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RISE:DELay?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RISE:TIME <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RISE:TIME?  
  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RTIME <val>  
[ :SOURce ] :RADio:PHS:BURSt:SHAPE:RTIME?
```



```
[ :SOURce]:RADio:PHS:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[:SOURce]:RADio:PHS:BURSt:SHAPE[:TYPE]?

[:SOURce]:RADio:PHS:BURSt[:STATe] ON|OFF|1|0
[:SOURce]:RADio:PHS:BURSt[:STATe]?

[:SOURce]:RADio:PHS:DATA PN9|PN11|PN15|PN20|PN23|FIX4| "<file name>" |EXT|P4|
P8|P16|P32|P64
[:SOURce]:RADio:PHS:DATA?

[:SOURce]:RADio:PHS:DATA:FIX4 <val>
[:SOURce]:RADio:PHS:DATA:FIX4?

[:SOURce]:RADio:PHS:DEFault

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:CUSTom PN9|PN15|FIX4| "<file name>" |
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:CUSTom?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:CUSTom:FIX4 <val>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:CUSTom:FIX4?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:POWer MAIN|DELTA
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:POWer?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:CSID <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:CSID?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:IDLE <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:IDLE?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:PSID <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:PSID?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:UWORD <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:SCHannel:UWORD?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:STATe ON|OFF|1|0
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:STATe?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel:SACChannel <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel:SACChannel?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel:UWORD <bit_pattern>
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel:UWORD?

[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel[:TCHannel] PN9|PN15|FIX4|
"<file name>" |EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:PHS:DLINk:SLOT[1]|2|3|4:TCHannel[:TCHannel]?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:PHS:DLINK:SLOT[1]|2|3|4:TCHannel[:TCHannel]:FIX4 <val>
[:SOURce]:RADio:PHS:DLINK:SLOT[1]|2|3|4:TCHannel[:TCHannel]:FIX4?

[:SOURce]:RADio:PHS:DLINK:SLOT[1]|2|3|4[:TYPE] CUSTOM|TCH|TCH_ALL|SYNC
[:SOURce]:RADio:PHS:DLINK:SLOT[1]|2|3|4[:TYPE]?

[:SOURce]:RADio:PHS:EDATa:DELay?

[:SOURce]:RADio:PHS:EDCLock SYMBOL|NORMal
[:SOURce]:RADio:PHS:EDCLock?

[:SOURce]:RADio:PHS:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:PHS:FILTer?

[:SOURce]:RADio:PHS:IQ:SCALE <val>
[:SOURce]:RADio:PHS:IQ:SCALE?

[:SOURce]:RADio:PHS:MODulation:FSK[:DEViation] <val><unit>
[:SOURce]:RADio:PHS:MODulation:FSK[:DEViation]?

[:SOURce]:RADio:PHS:MODulation:MSK[:PHASe] <val><unit>
[:SOURce]:RADio:PHS:MODulation:MSK[:PHASe]?

[:SOURce]:RADio:PHS:MODulation:UFSK "<file name>"
[:SOURce]:RADio:PHS:MODulation:UFSK?

[:SOURce]:RADio:PHS:MODulation:UIQ "<file name>"
[:SOURce]:RADio:PHS:MODulation:UIQ?

[:SOURce]:RADio:PHS:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio:PHS:MODulation[:TYPE]?

[:SOURce]:RADio:PHS:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:PHS:POLarity[:ALL]?

[:SOURce]:RADio:PHS:SECondary:RECall

[:SOURce]:RADio:PHS:SECondary:SAVE

[:SOURce]:RADio:PHS:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PHS:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:PHS:SECondary[:STATe] ON|OFF|1|0
[:SOURce]:RADio:PHS:SECondary[:STATe]?

[:SOURce]:RADio:PHS:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:PHS:SOUT?
```

```
[ :SOURce]:RADio:PHS:SOUT:OFFSet <val>
[ :SOURce]:RADio:PHS:SOUT:OFFSet?

[ :SOURce]:RADio:PHS:SOUT:SLOT <val>
[ :SOURce]:RADio:PHS:SOUT:SLOT?

[ :SOURce]:RADio:PHS:SRATe <val>
[ :SOURce]:RADio:PHS:SRATe?

[ :SOURce]:RADio:PHS:TRIGger[:SOURce] KEY|EXT|BUS
[ :SOURce]:RADio:PHS:TRIGger[:SOURce]?

[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay <val>
[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay?

[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay:STATe ON|OFF|1|0
[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay:STATe?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:CUSTom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:CUSTom?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:CUSTom:FIX4 <val>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:CUSTom:FIX4?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:POWer MAIN|DELTA
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:POWer?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:CSID <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:CSID?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:IDLE <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:IDLE?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:PSID <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:PSID?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:UWORD <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:SCHannel:UWORD?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:STATe ON|OFF|1|0
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:STATe?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:TCHannel:SACChannel <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:TCHannel:SACChannel?

[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:TCHannel:UWORD <bit_pattern>
[ :SOURce]:RADio:PHS:ULINk:SLOT[1]|2|3|4:TCHannel:UWORD?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:TCHannel[:TCHannel] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:TCHannel[:TCHannel]?

[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:TCHannel[:TCHannel]:FIX4 <val>
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:TCHannel[:TCHannel]:FIX4?

[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4[:TYPE] CUSTOM|TCH|TCH_ALL|SYNC
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4[:TYPE]?

[:SOURce]:RADio:PHS[:STATE] ON|OFF|1|0
[:SOURce]:RADio:PHS[:STATE]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:PHS:CHANnel EVM|ACP
[:SOURce]:RADio:PHS:CHANnel?

[:SOURce]:RADio:PHS:FCHannel:BAND STANdard
[:SOURce]:RADio:PHS:FCHannel:BAND?

[:SOURce]:RADio:PHS:FCHannel:NUMBer <number>
[:SOURce]:RADio:PHS:FCHannel:NUMBer?

[:SOURce]:RADio:PHS:FCHannel[:STATE] ON|OFF|1|0
[:SOURce]:RADio:PHS:FCHannel[:STATE]?

[:SOURce]:RADio:PHS:REPeat SINGLE|CONTInuous
[:SOURce]:RADio:PHS:REPeat?

[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|RESEt|MANual
[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTErnal[:TYPE]?
```

## Sense Subsystem

### Compatible Commands

```
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:DELAy <val>
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:DELAy?

:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:POLarity POSitive|NEGative
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:POLarity?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:BLOCK:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:BLOCK:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:CONTain ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:CONTain?
```

:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:ESensitivity <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:ESensitivity?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:HAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:HAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:LAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:LAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:PAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:PAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLock:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLock:COUNT?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLock:INITial <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLock:INITial?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITeria:EBLock <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITeria:EBLock?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITeria[:SElect] EBLock|NONE  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITeria[:SElect]?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:BLock:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:BLock:COUNT?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:CONTain ON|OFF|1|0  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:CONTain?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:ESensitivity <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:ESensitivity?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:HAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:HAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:LAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:LAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:PAMplitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:PAMplitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLock:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLock:COUNT?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLock:INITial <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLock:INITial?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITeria:EBLock <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITeria:EBLock?

## ESG E44xxB Commands

### Digital Function Commands

```
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITeria[:SElect] EBlock|NONE
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITeria[:SElect]?

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:STOP

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:TSLot 0|1|2|3|4|5|6|7
:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:TSLot?

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement[:MODE] BLER|SSEarch
:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement[:MODE]?

:SENSe:BERT:BTS:LOOPback:EDGE:SINVert ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:EDGE:SINVert?

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC:AGain

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC:RF

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC[:SOURce] BCH|PDCH
:SENSe:BERT:BTS:LOOPback:EDGE:SYNC[:SOURce]?

:SENSe:BERT:BTS:LOOPback:EDGE:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS
:SENSe:BERT:BTS:LOOPback:EDGE:TRIGger[:SOURce]?

:SENSe:BERT:BTS:LOOPback:EDGE:ULINK:OFFSet <val>
:SENSe:BERT:BTS:LOOPback:EDGE:ULINK:OFFSet?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:BIT:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:BIT:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:ESENSitivity <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:ESENSitivity?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:HAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:HAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:LAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:LAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:PAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:PAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:INITial <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:INITial?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria:EBIT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria:EBIT?
```

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria[:SElect] EBIT|NONE  
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria[:SElect]?

:SENSe:BERT:BTS:LOOPback:EDGE[:STATe] ON|OFF|1|0  
:SENSe:BERT:BTS:LOOPback:EDGE[:STATe]?

:SENSe:BERT:BTS:LOOPback:GSM:ESENSitivity <val>  
:SENSe:BERT:BTS:LOOPback:GSM:ESENSitivity?

:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:CIB?  
:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:CII?

:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:COUNt <val>  
:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:COUNt?

:SENSe:BERT:BTS:LOOPback:GSM:HAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:GSM:HAMPLitude?

:SENSe:BERT:BTS:LOOPback:GSM:LAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:GSM:LAMPLitude?

:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:STOP  
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:TSLot 0|1|2|3|4|5|6|7  
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:TSLot?

:SENSe:BERT:BTS:LOOPback:GSM:MEASurement[:MODE] BER|SSEarch  
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement[:MODE]?

:SENSe:BERT:BTS:LOOPback:GSM:PAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:GSM:PAMPLitude?

:SENSe:BERT:BTS:LOOPback:GSM:SFRame:COUNt <val>  
:SENSe:BERT:BTS:LOOPback:GSM:SFRame:COUNt?

:SENSe:BERT:BTS:LOOPback:GSM:SFRame:INITial <val>  
:SENSe:BERT:BTS:LOOPback:GSM:SFRame:INITial?

:SENSe:BERT:BTS:LOOPback:GSM:SINVert ON|OFF|1|0  
:SENSe:BERT:BTS:LOOPback:GSM:SINVert?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CIB <val>  
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CIB?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CII <val>  
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CII?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:FERasure <val>  
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:FERasure?

## ESG E44xxB Commands

### Digital Function Commands

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria[:SElect] FERasure|CLIB|CLII|ANY|NONE

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria[:SElect]?

:SENSe:BERT:BTS:LOOPback:GSM:SYNC:RF

:SENSe:BERT:BTS:LOOPback:GSM:SYNC[:SOURce] BCH|TCH

:SENSe:BERT:BTS:LOOPback:GSM:SYNC[:SOURce]?

:SENSe:BERT:BTS:LOOPback:GSM:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS

:SENSe:BERT:BTS:LOOPback:GSM:TRIGger[:SOURce]?

:SENSe:BERT:BTS:LOOPback:GSM:ULINK:OFFSet <val>

:SENSe:BERT:BTS:LOOPback:GSM:ULINK:OFFSet?

:SENSe:BERT:BTS:LOOPback:GSM[:STATe] ON|OFF|1|0

:SENSe:BERT:BTS:LOOPback:GSM[:STATe]?

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore:DATA ALL\_0|ALL\_1

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore:DATA?

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore[:STATe] ON|OFF|1|0

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore[:STATe]?

:SENSe:BERT[:BASEband]:PRBS[:DATA] PN9|PN15

:SENSe:BERT[:BASEband]:PRBS[:DATA]?

:SENSe:BERT[:BASEband]:RSYNc:THReshold <val>

:SENSe:BERT[:BASEband]:RSYNc:THReshold?

:SENSe:BERT[:BASEband]:RSYNc[:STATe] ON|OFF|1|0

:SENSe:BERT[:BASEband]:RSYNc[:STATe]?

:SENSe:BERT[:BASEband]:STATe ON|OFF|1|0

:SENSe:BERT[:BASEband]:STATe?

:SENSe:BERT[:BASEband]:TBITs <val>

:SENSe:BERT[:BASEband]:TBITs?

:SENSe:BERT[:BASEband]:TRIGger:BDELay <val>

:SENSe:BERT[:BASEband]:TRIGger:BDELay?

:SENSe:BERT[:BASEband]:TRIGger:BDELay:STATe ON|OFF|1|0

:SENSe:BERT[:BASEband]:TRIGger:BDELay:STATe?

:SENSe:BERT[:BASEband]:TRIGger:COUNT <val>

:SENSe:BERT[:BASEband]:TRIGger:COUNT?

:SENSe:BERT[:BASEband]:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS

:SENSe:BERT[:BASEband]:TRIGger[:SOURce]?



## Non-Compatible Commands

```
:SENSE:BERT[:BASEband]:PRBS:MDRate BPS_2M|BPS_10M  
:SENSE:BERT[:BASEband]:PRBS:MDRate?
```

## TETRA Subsystem

### Compatible Commands

```
[:SOURCE]:RADIO:TETRA:ALPHA <val>  
[:SOURCE]:RADIO:TETRA:ALPHA?  
  
[:SOURCE]:RADIO:TETRA:BBCLock INT[1]|EXT[1]  
[:SOURCE]:RADIO:TETRA:BBCLock?  
  
[:SOURCE]:RADIO:TETRA:BBT <val>  
[:SOURCE]:RADIO:TETRA:BBT?  
  
[:SOURCE]:RADIO:TETRA:BRATE <val>  
[:SOURCE]:RADIO:TETRA:BRATE?  
  
[:SOURCE]:RADIO:TETRA:BURSt:PN9 NORMAL|QUICK  
[:SOURCE]:RADIO:TETRA:BURSt:PN9?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SCRamble:SEED <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SCRamble:SEED?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SCRamble[:STATE] ON|OFF|1|0  
[:SOURCE]:RADIO:TETRA:BURSt:SCRamble[:STATE]?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FALL:DElay <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FALL:DElay?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FALL:TIME <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FALL:TIME?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FDElay <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FDElay?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FTIME <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:FTIME?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:RDElay <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:RDElay?  
  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:RISE:DElay <val>  
[:SOURCE]:RADIO:TETRA:BURSt:SHAPE:RISE:DElay?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:TETRa:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce]:RADio:TETRa:BURSt:SHAPE:RISE:TIME?

[ :SOURce]:RADio:TETRa:BURSt:SHAPE:RTIME <val>
[ :SOURce]:RADio:TETRa:BURSt:SHAPE:RTIME?

[ :SOURce]:RADio:TETRa:BURSt:SHAPE[:TYPE] SINE | "<file name>"
[ :SOURce]:RADio:TETRa:BURSt:SHAPE[:TYPE]?

[ :SOURce]:RADio:TETRa:BURSt[:STATE] ON|OFF|1|0
[ :SOURce]:RADio:TETRa:BURSt[:STATE]?

[ :SOURce]:RADio:TETRa:DATA PN9|PN11|PN15|PN20|PN23|FIX4 | "<file name>" | EXT|P4|
P8|P16|P32|P64
[ :SOURce]:RADio:TETRa:DATA?

[ :SOURce]:RADio:TETRa:DATA:FIX4 <val>
[ :SOURce]:RADio:TETRa:DATA:FIX4?

[ :SOURce]:RADio:TETRa:DEFault
[ :SOURce]:RADio:TETRa:EDATa:DELay?

[ :SOURce]:RADio:TETRa:EDCLock SYMBOL|NORMal
[ :SOURce]:RADio:TETRa:EDCLock?

[ :SOURce]:RADio:TETRa:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD_EQ|AC4Fm|UGGaussian | "<user FIR>"
[ :SOURce]:RADio:TETRa:FILTer?

[ :SOURce]:RADio:TETRa:IQ:SCALE <val>
[ :SOURce]:RADio:TETRa:IQ:SCALE?

[ :SOURce]:RADio:TETRa:MODulation:FSK[:DEViation] <val><unit>
[ :SOURce]:RADio:TETRa:MODulation:FSK[:DEViation]?

[ :SOURce]:RADio:TETRa:MODulation:MSK[:PHASe] <val><unit>
[ :SOURce]:RADio:TETRa:MODulation:MSK[:PHASe]?

[ :SOURce]:RADio:TETRa:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:TETRa:MODulation:UFSK?

[ :SOURce]:RADio:TETRa:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:TETRa:MODulation:UIQ?

[ :SOURce]:RADio:TETRa:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[ :SOURce]:RADio:TETRa:MODulation[:TYPE]?
```

```
[ :SOURce]:RADio:TETRA:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:TETRA:POLarity[:ALL]?

[:SOURce]:RADio:TETRA:SECondary:RECall

[:SOURce]:RADio:TETRA:SECondary:SAVE

[:SOURce]:RADio:TETRA:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:TETRA:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:TETRA:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio:TETRA:SECondary[:STATE]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B1 <14 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B1?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B2 <16 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B2?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:TSEquence <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:TSEquence?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:B <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:B?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:FCOR <80 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:FCOR?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:SSB <120 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:SSB?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:STS <38 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync:STS?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCSync[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDCustom PN9|PN15|FIX4|"<file name>"|EXT|
P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDCustom?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDCustom:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDCustom:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:B1 <14 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:B1?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:B2 <16 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:B2?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:TSEquence <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal:TSEquence?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal[:DATA]
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDNormal[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:B <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:B?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:FCOR <80 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:FCOR?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:SSB <120 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:SSB?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:STS <38 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:STS?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:POWer MAIN|DELTA
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:POWer?
```

```

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:STATE ON|OFF|1|0
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:STATE?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC1[:DATA] PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC1[:DATA]?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC1[:DATA]:FIX4 <val>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC1[:DATA]:FIX4?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2:TSEQUENCE <30 bit value>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2:TSEQUENCE?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2[:DATA] PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2[:DATA]?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2[:DATA]:FIX4 <val>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UC2[:DATA]:FIX4?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UCUSTOM PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UCUSTOM?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UCUSTOM:FIX4 <val>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UCUSTOM:FIX4?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL:TSEQUENCE <22 bit value>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL:TSEQUENCE?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL[:DATA]?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL[:DATA]:FIX4 <val>
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4:UNORMAL[:DATA]:FIX4?

[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4[:TYPE] UCUSTOM|UC1|UC2|UNORMAL|DDNORMAL|
DDSYNC|DCNORMAL|DCSYNC|DCCUSTOM|DDCUSTOM
[:SOURCE]:RADIO:TETRA:SLOT[1]|2|3|4[:TYPE]?

[:SOURCE]:RADIO:TETRA:SOUT FRAME|SLOT|ALL
[:SOURCE]:RADIO:TETRA:SOUT?

[:SOURCE]:RADIO:TETRA:SOUT:OFFSET <val>
[:SOURCE]:RADIO:TETRA:SOUT:OFFSET?

[:SOURCE]:RADIO:TETRA:SOUT:SLOT <val>
[:SOURCE]:RADIO:TETRA:SOUT:SLOT?

```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce ]:RADio:TETRa:SRATe <val>
[ :SOURce ]:RADio:TETRa:SRATe?

[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal:DELay <val>
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal:DELay?

[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal:DELay:STATe ON|OFF|1|0
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal:DELay:STATe?

[ :SOURce ]:RADio:TETRa[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:TETRa[:STATe]?
```

### Non-Compatible Commands

```
[ :SOURce ]:RADio:TETRa:CHANnel EVM|ACP
[ :SOURce ]:RADio:TETRa:CHANnel?

[ :SOURce ]:RADio:TETRa:FCHannel:BAND B390|B420|B460|B915|M380|M410|M450|M870
[ :SOURce ]:RADio:TETRa:FCHannel:BAND?

[ :SOURce ]:RADio:TETRa:FCHannel:NUMBer <number>
[ :SOURce ]:RADio:TETRa:FCHannel:NUMBer?

[ :SOURce ]:RADio:TETRa:FCHannel[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:TETRa:FCHannel[:STATe]?

[ :SOURce ]:RADio:TETRa:FILTer IS2000SR3DS

[ :SOURce ]:RADio:TETRa:REPeat SINGLE|CONTInuous
[ :SOURce ]:RADio:TETRa:REPeat?

[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal[:TYPE] SINGLE|GATE|RESet|
MANual
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTErnal[:TYPE]?
```

## Wideband CDMA ARB Subsystem

### Compatible Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:I <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:I?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:POSition PRE|POST
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:POSition?
```

```
[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping:Q <val>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping:Q?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping:TYPE IJQ|IORQ
[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping:TYPE?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping[:IJQ] <val>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:CLIPping[:IJQ]?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:CRATe <val>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:CRATe?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|
WCDMA|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:ALPHa <val>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:ALPHa?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:BBT <val>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:BBT?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:CHANnel EVM|ACP
[ :SOURce]:RADio:WCDMa:TGPP:ARB:FILTer:CHANnel?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:IQMap NORMal|INVerted
[ :SOURce]:RADio:WCDMa:TGPP:ARB:IQMap?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK DOWN|UP
[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup DPCH1|DPCH3|PPSCH|PPDPCH1|
PPDPCH3|TM1D16|TM1D32|TM1D64|TM2|TM3D16|TM3D32|TM4|MCArrier|"<file name>"
[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier CAR2|CAR3|CAR4|
"<file name>"
[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:STORe "<file name>"

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE INIT|APPend|
<carrier_num>,DPCH1|DPCH3|PPSCH|PPDPCH1|PPDPCH3|TM1D16|TM1D32|TM1D64|TM2|
TM3D16|TM3D32|"<file name>",<freq_offset>,<power>
[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE? <carrier_num>

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE:NCARriers?

[ :SOURce]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:STORe "<file name>"
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:APPLy
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<symbol_rate>,<spread_code>,<power>,<tDPCCH_offset>,<TFCI>,<TPC>,<scramble_code>,STANdard|RALTernate|LALTernate,
<scramble_offset>,RANDom|PN9|PINDicator|<data_val>,<TFCI_power>,<TPC_power>,<pilot_power>,<pilot_bits>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:CHANnel? <chan_num>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:NCHannels?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:PADJust EQUal|SCALE
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:TFCI ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:TFCI?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SCRamble <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SCRamble?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SDPDch I|Q
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SDPDch?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup DPCCH|DDPDCH1|DDPDCH2|DDPDCH3|
DDPDCH4|DDPDCH5|"<file name>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:STORE "<file name>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:APPLy
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<symbol_rate>,<spread_code>,<power>,<TFCI>,<TPC>,<RANDOM|<data_val>,<fbi_bits_count>,<fbi_bits_value>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:CHANnel? <chan_num>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:GUNit DB|LINear|INDEX
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:GUNit?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:NCHannels?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:TFCI ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:TFCI?
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:RETRigger 1|0
```

---

**NOTE**            The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

---



```
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : RETRigger ON | OFF  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : RETRigger ?
```

---

**NOTE** The above query for the ESG Vector Signal Generator only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

---

```
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : REVision ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger : TYPE CONT | SINGLE | GATE  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger : TYPE ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger : TYPE : GATE : ACTive LOW | HIGH  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger : TYPE : GATE : ACTive ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] KEY | EXT | BUS  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : DELay <val>  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : DELay ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : DELay : STATE ON | OFF |  
1 | 0  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : DELay : STATE ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : SLOPe POSitive |  
NEGative  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB : TRIGger [ :SOURce ] : EXTernal : SLOPe ?  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB [ :STATE ] ON | OFF | 1 | 0  
[ :SOURce ] : RADio : WCDMa : TGPP : ARB [ :STATE ] ?
```

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Wideband CDMA BBG Subsystem

### Compatible Commands

```
[ :SOURce ] : RADio : WCDMa : TGPP [ :BBG ] : BBCLock INT [ 1 ] | EXT [ 1 ]  
[ :SOURce ] : RADio : WCDMa : TGPP [ :BBG ] : BBCLock ?  
[ :SOURce ] : RADio : WCDMa : TGPP [ :BBG ] : BBCLock : EXT : POLarity POSitive | NEGative  
[ :SOURce ] : RADio : WCDMa : TGPP [ :BBG ] : BBCLock : EXT : POLarity ?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:BBCLock:EXT:RATE X1|X2|X3|X4
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:BBCLock:EXT:RATE

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:APPLy
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:APPLy?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CPICH:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CPICH:POWer <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CPICH:POWer?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CPICH[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CPICH[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CRATe <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:CRATe?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:BLKSize <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:BLKSize?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:BPFRame?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:BRATe?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:CODE HCONv|TCONv|
TURBo|NONE
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:CODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:CRC 0|8|12|16|24
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:CRC?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:DATA PN9|FIX4|
"<file name>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:DATA:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:NBLocks <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:NBLocks?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:PPERcentage?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:RMATch <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:RMATch?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:TTI 10000|20000|
40000|80000
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINk:DCH[1]|2|3|4|5|6:TTI?
```

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA PN9|PN15|FIX4|
"<file name>"|TRANSpch
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:POWER <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:POWER?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SLOTformat <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SLOTformat?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SRATE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SSCodeos <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SSCodeos?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TFCI:PATtern <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TFCI:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TOFFset <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TOFFset?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TPC:NUMSteps <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TPC:NUMSteps?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TPC:PATtern UDOWn|DUP|
UALL|DALL
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TPC:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:ALPha <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:ALPha?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:BBT <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:BBT?
```

## ESG E44xB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:CHANnel <EVM|ACP>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:FILTer:CHANnel?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:POWer <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:POWer?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:SRATE 7.5|15|30|60|120|
240|480|960
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:SRATE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:DATA PN9|PN15
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:SSCodeos <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4:SSCodeos?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:OCNS[1]|2|3|4[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:BCHData PN9|PN15|FIX4|
"<file name>"|TRANspch
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:BCHData?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:BCHData:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:BCHData:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:POWer <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch:POWer?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PCCPch[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:DATA:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:PICH:PIBits?
```

```

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:PINDicator?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:POWER?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH[:STATE]?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH:POWER?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH[:STATE]?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SCRamblecode <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SCRamblecode?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:POWER?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:SSGRoup?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH[:STATE]?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:LINK DOWN|UP
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:LINK?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:POLarity[:ALL] NORMal|INVerted
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:POLarity[:ALL]?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:APPLy
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:APPLy?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:CRATe <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:CRATe?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:BLKSize <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:BLKSize?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:CODE HCONv|TCONv|
TURBo|NONE
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:CODE?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:CRC <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:CRC?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:DATA PN9|FIX4|
"<file name>"
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:DATA?

```

## ESG E44xB Commands

### Digital Function Commands

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BER :ACTual ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BER :ERRor :BIT ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BER :TOTal :BIT ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :  
BER [ :VALue ] <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BER [ :VALue ] ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BLER :ACTual ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BLER :ERRor :  
BLOCk ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BLER :TOTal :  
BLOCk ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :  
BLER [ :VALue ] <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :BLER [ :VALue ] ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :EINsert BLER |  
BER | NONE

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :EINsert ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :FIX4 <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :DATA :FIX4 ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :NBLOCK <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :NBLOCK ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :RMATch <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :RMATch ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :TTI <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 :TTI ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 [ :STATe ] ON | OFF | 1 | 0

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DCH [ 1 ] | 2 | 3 | 4 | 5 | 6 [ :STATe ] ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :BETA <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :BETA ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :CCODE <val>

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :CCODE ?

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :FBI :PATtern PN9 | PN15 | FIX |  
"<file name>"

[ :SOURce ] :RADio :WCDMa :TGPP [ :BBG ] :ULINk :DPCCh :FBI :PATtern ?

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:FBI:PATtern:FIX <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:FBI:PATtern:FIX?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:FBI[:STATe]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:POWER <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:POWER?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:RATE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:SLOTformat <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:SLOTformat?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TFCI:PATtern PN9|PN15|FIX|
"<file name>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TFCI:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TFCI:PATtern:FIX <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TFCI:PATtern:FIX?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TFCI[:STATe]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:NSTeps <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:NSTeps?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern PN9|PN15|FIX4|
"<file name>"|UDOW|DUP|UALL|DALL
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:TRIGger:
POLarity POSitive|NEGative
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:TRIGger:POLarity?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:TRIGger[:STATe] ON|
OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh:TPC:PATtern:TRIGger[:STATe]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh[:STATe] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPCCh[:STATe]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPDCh:BETA <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPDCh:BETA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPDCh:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINk:DPDCh:CCODE?
```

## ESG E44xxB Commands

### Digital Function Commands

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:DATA PN9|PN15|FIX4|
"<file name>"|TRANSpch
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:DATA:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:POWER <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:POWER?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:RATE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:RATE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:SLOTformat <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh:SLOTformat?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:DPDCh[:STATE]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FClock:INTerval FCL10|FCL20|
FCL40|FCL80
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FClock:INTerval?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FClock:POLarity POSitive|NEGative
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FClock:POLarity?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer:BBT <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer:BBT?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer:CHANnel EVM|ACP
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:FILTer:CHANnel?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:PADJust EQUal|SCALE

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SCRamblecode <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SCRamblecode?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SDElay <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SDElay?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SFNRst:POLarity POSitive|NEGative
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SFNRst:POLarity?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SYNC:MODE SINGLE|CONTinuous
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SYNC:MODE?
```



```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SYNC[:SOURce] SFN_RST|FClock
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:SYNC[:SOURce]?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:TOFFset <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:ULINK:TOFFset?

[:SOURce]:RADio:WCDMa:TGPP[:BBG][:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG][:STATE]?
```

### Non-Compatible Commands

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:CCODE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:DATA PN9|PN15|FIX4|
"<file name>"|TRANSpch
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:DATA?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:DATA:FIX4?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:POWER <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:POWER?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:SLOTformat <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:SLOTformat?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:SRATE?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:SSCodeos <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:SSCodeos?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TFCI:PATtern <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TFCI:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TOFFset <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TOFFset?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TPC:NUMSteps <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TPC:NUMSteps?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TPC:PATtern UDown|DUP|
UALL|DALL
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4:TPC:PATtern?

[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH3|4[:STATE]?
```

## ESG E44xxB Commands

### Digital Function Commands

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:RCSetup REF122 | REF64 | REF144 | REF384 |  
AMR122 | UDI64 | ISDN

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:RCSetup?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPower? <val>

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPaired <val>

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPaired?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:SCALE <val>

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:SCALE?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVoltage?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVpaired <val>

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVpaired?

---

## **3 8648A/B/C/D Commands**

## System Function Commands

### IEEE Common Commands

#### Compatible Commands

\*RST?

\*IDN?

\*TST?

\*WAI?

\*CLS?

\*ESE <dec. num. data>

\*ESE?

\*OPC

\*OPC?

\*RCL <reg\_num>[ ,<seq\_num>]

\*SAV <reg\_num>[ ,<seq\_num>]

\*SRE <dec. num. data>

\*SRE?

\*STB?

#### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

### Status Subsystem

#### Compatible Commands

[ :SOURce ]:STATus:QUESTionable:POWer:CONDition?

[ :SOURce ]:STATus:QUESTionable:POWer:ENABle <NR1>

[ :SOURce ]:STATus:QUESTionable:POWer:ENABle?

[ :SOURce ] :STATus:QUEStionable:POWer:EVENt?  
[ :SOURce ] :STATus:QUEStionable:MODulation:CONDition?  
[ :SOURce ] :STATus:QUEStionable:MODulation:ENABle <NR1>  
[ :SOURce ] :STATus:QUEStionable:MODulation:ENABle?  
[ :SOURce ] :STATus:QUEStionable:MODulation:EVENt?  
[ :SOURce ] :STATus:QUEStionable:CALibration:FEXTension[ :EVENt ]?  
[ :SOURce ] :STATus:QUEStionable:CALibration:FEXTension:CONDition?  
[ :SOURce ] :STATus:QUEStionable:CALibration:FEXTension:ENABle <NR1>  
[ :SOURce ] :STATus:QUEStionable:CALibration:FEXTension:ENABle?

### Non-Compatible Commands

[ :SOURce ] :STATus:QUEStionable:PAGing:CONDition?  
[ :SOURce ] :STATus:QUEStionable:PAGing:ENABle <NR1>  
[ :SOURce ] :STATus:QUEStionable:PAGing:ENABle?  
[ :SOURce ] :STATus:QUEStionable:PAGing:EVENt?

## System Subsystem

### Compatible Commands

[ :SOURce ] :SYSTem:LANGUage "COMP" | "SCPI"  
[ :SOURce ] :SYSTem:LANGUage?  
[ :SOURce ] :SYSTem:ERRor?  
[ :SOURce ] :SYSTem:VERSion?

### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Analog Function Commands

### Amplitude Subsystem

#### Compatible Commands

```
[ :SOURce]:OUTPut:STATe ON|OFF  
[ :SOURce]:OUTPut:STATe?  
  
[ :SOURce]:POWer:AMPLitude <val><units>  
[ :SOURce]:POWer:AMPLitude?  
  
[ :SOURce]:POWer:ATTenuation:AUTO ON|OFF  
[ :SOURce]:POWer:ATTenuation:AUTO?  
  
[ :SOURce]:POWer:REFerence <val><units>  
[ :SOURce]:POWer:REFerence?  
  
[ :SOURce]:POWer:REFerence:STATe ON|OFF  
[ :SOURce]:POWer:REFerence:STATe?
```

#### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

### Frequency Subsystem

#### Compatible Commands

```
[ :SOURce]:FREQuency:CW <val><units>  
[ :SOURce]:FREQuency:CW?  
  
[ :SOURce]:FREQuency:REFerence <val><units>  
[ :SOURce]:FREQuency:REFerence?  
  
[ :SOURce]:FREQuency:REFerence:STATe ON|OFF  
[ :SOURce]:FREQuency:REFerence:STATe?
```

#### Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

## Amplitude Modulation Subsystem

### Compatible Commands

```
[ :SOURce]:AM:DEPTh <val>PCT  
[ :SOURce]:AM:DEPTh?  
  
[ :SOURce]:AM:STATe ON|OFF  
[ :SOURce]:AM:STATe?  
  
[ :SOURce]:AM:SOURce INTernal[1]|2  
[ :SOURce]:AM:SOURce INTernal|EXTernal  
[ :SOURce]:AM:SOURce?  
  
[ :SOURce]:AM:INTernal:FREQuency 1kHZ  
[ :SOURce]:AM:INTernal:FREQuency 400HZ  
[ :SOURce]:AM:INTernal:FREQuency?  
  
[ :SOURce]:AM:INTernal2:FREQuency <val><units>  
[ :SOURce]:AM:INTernal2:FREQuency?  
  
[ :SOURce]:AM:INTernal2:FUNCTion:SHAPE TRIangle|SQUare|SINE  
[ :SOURce]:AM:INTernal2:FUNCTion:SHAPE?  
  
[ :SOURce]:AM:EXTernal:COUPling AC|DC  
[ :SOURce]:AM:EXTernal:COUPling?
```

### Non-Compatible Commands

```
[ :SOURce]:AM:INTernal2:FUNCTion:SHAPE SAW
```

## Frequency Modulation Subsystem

### Compatible Commands

```
[ :SOURce]:CALibration:DCFM  
  
[ :SOURce]:FM:DEVIation <val>kHZ  
[ :SOURce]:FM:DEVIation?  
  
[ :SOURce]:FM:STATe ON|OFF  
[ :SOURce]:FM:STATe?  
  
[ :SOURce]:FM:SOURce INTernal[1]|2
```

## Analog Function Commands

```
[ :SOURce ]:FM:SOURce INTernal|EXTernal
[ :SOURce ]:FM:SOURce?

[ :SOURce ]:FM:INTernal:FREQuency 1kHz
[ :SOURce ]:FM:INTernal:FREQuency 400HZ
[ :SOURce ]:FM:INTernal:FREQuency?

[ :SOURce ]:FM:INTernal2:FREQuency <val><units>
[ :SOURce ]:FM:INTernal2:FREQuency?

[ :SOURce ]:FM:INTernal2:FUNCTion:SHAPE TRIangle|SQUare|SINE
[ :SOURce ]:FM:INTernal2:FUNCTion:SHAPE?

[ :SOURce ]:FM:EXTernal:COUPling AC|DC
[ :SOURce ]:FM:EXTernal:COUPling?
```

## Non-Compatible Commands

```
[ :SOURce ]:FM:INTernal2:FUNCTion:SHAPE SAW
```

## Phase Modulation Subsystem

### Compatible Commands

```
[ :SOURce ]:PM:DEVIation <val>RAD
[ :SOURce ]:PM:DEVIation?

[ :SOURce ]:PM:STATe ON|OFF
[ :SOURce ]:PM:STATe?

[ :SOURce ]:PM:SOURce INTernal[1]|2
[ :SOURce ]:PM:SOURce INTernal|EXTernal
[ :SOURce ]:PM:SOURce?

[ :SOURce ]:PM:INTernal:FREQuency 1kHz
[ :SOURce ]:PM:INTernal:FREQuency 400HZ
[ :SOURce ]:PM:INTernal:FREQuency?

[ :SOURce ]:PM:INTernal2:FREQuency <val><units>
[ :SOURce ]:PM:INTernal2:FREQuency?

[ :SOURce ]:PM:INTernal2:FUNCTion:SHAPE TRIangle|SQUare|SINE
[ :SOURce ]:PM:INTernal2:FUNCTion:SHAPE?
```



[ :SOURce ] : PM : EXTeRnal : COUPling AC | DC  
[ :SOURce ] : PM : EXTeRnal : COUPling ?

### Non-Compatible Commands

[ :SOURce ] : PM : INTeRnal2 : FUNctIon : SHAPE SAW

## Pulse Modulation Subsystem

### Compatible Commands

[ :SOURce ] : PULM : STATe ON | OFF  
[ :SOURce ] : PULM : STATe ?

### Non-Compatible Commands

[ :SOURce ] : INITiate : IMMEDIATE

[ :SOURce ] : ABORT

[ :SOURce ] : TRIGger : COUNT <val>  
[ :SOURce ] : TRIGger : COUNT ?

[ :SOURce ] : DM : FORMat FSK2 | FSK4  
[ :SOURce ] : DM : FORMat ?

[ :SOURce ] : DM : STATe ON | OFF  
[ :SOURce ] : DM : STATe ?

[ :SOURce ] : DM : DEVIation <val>  
[ :SOURce ] : DM : DEVIation ?

[ :SOURce ] : DM : POLarity NORMal | INVert  
[ :SOURce ] : DM : POLarity ?

[ :SOURce ] : DM : FILTer : STATe ON | OFF  
[ :SOURce ] : DM : FILTer : STATe ?

[ :SOURce ] : PAGing : SELEct POCS | FLEX | FTD | RESY | PN15  
[ :SOURce ] : PAGing : SELEct ?

[ :SOURce ] : PAGing : { POCS | FLEX | FTD | PN15 } : RATE <val>  
[ :SOURce ] : PAGing : { POCS | FLEX | FTD | PN15 } : RATE ?

[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : SELEct <val>  
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : SELEct ?

## 8648A/B/C/D Commands

### Analog Function Commands

```
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:MESSAge:DEFine "string"  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:MESSAge:DEFine?  
  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:MESSAge:LENGth <val>  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:MESSAge:LENGth?  
  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:DEFine <val>,...<val(n)>  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:START <val>  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:START?  
  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:STOP <val>  
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:STOP?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:TYPE TONE|NUMeric|ALPHAnumeric|HBINary  
[ :SOURce]:PAGing:{FLEX|FTD}:TYPE?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:VECTor STANdard|SPECial|NUMBered  
[ :SOURce]:PAGing:{FLEX|FTD}:VECTor?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:NUMBered <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:NUMBered?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:CYCLE <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:CYCLE?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:FRAME <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:FRAME?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:CCOUNT?  
[ :SOURce]:PAGing:{FLEX|FTD}:FCOUNT?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:PHASe A|B|C|D  
[ :SOURce]:PAGing:{FLEX|FTD}:PHASe?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:COLLapse <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:COLLapse?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:CODE <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:CODE?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:ATYPe SHORT|LONG  
[ :SOURce]:PAGing:{FLEX|FTD}:ATYPe?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:ADDRess{1|2} <val>  
[ :SOURce]:PAGing:{FLEX|FTD}:ADDRess{1|2}?  
  
[ :SOURce]:PAGing:{FLEX|FTD}:ISTop:STATe ON|OFF  
[ :SOURce]:PAGing:{FLEX|FTD}:ISTop:STATe?
```

```
[ :SOURce ] :PAGing : { FLEX | FTD } :HEADer :STATe ON | OFF
[ :SOURce ] :PAGing : { FLEX | FTD } :HEADer :STATe ?

[ :SOURce ] :PAGing : { FLEX | FTD } :TERMinator :STATe ON | OFF
[ :SOURce ] :PAGing : { FLEX | FTD } :TERMinator :STATe ?

[ :SOURce ] :PAGing : { FLEX | FTD } :VECTor STANdard | SPECial | NUMBered
[ :SOURce ] :PAGing : { FLEX | FTD } :VECTor ?

[ :SOURce ] :PAGing : { FLEX | FTD } :HBINary BIT1 | BIT7 | BIT8 | BIT14 | BIT16
[ :SOURce ] :PAGing : { FLEX | FTD } :HBINary ?

[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :STATe ON | OFF
[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :STATe ?

[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :ADdress { 1 | 2 } <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :ADdress { 1 | 2 } ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SElect NONE | SSID | NID
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SElect ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :LID <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :LID ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CZONe <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CZONe ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CCODe <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CCODe ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :TMF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :TMF ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :FOFF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :FOFF ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :ADdress <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :ADdress ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :AREa <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :AREa ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :MULTIplier <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :MULTIplier ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :TMF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :TMF ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :FOFF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :FOFF ?
```

## 8648A/B/C/D Commands

### Analog Function Commands

[ :SOURce ] :PAGing:FTD:REFErence <val>

[ :SOURce ] :PAGing:FTD:REFErence?

[ :SOURce ] :PAGing:FTD:RCO?

[ :SOURce ] :PAGing:POCS:TYPE TONE | NUMeric | ALPHanumeric | ALPH7 | ALPH8

[ :SOURce ] :PAGing:POCS:TYPE?

[ :SOURce ] :PAGing:POCS:CODE <val>

[ :SOURce ] :PAGing:POCS:CODE?

[ :SOURce ] :PAGing:POCS:FUNction 0 | 1 | 2 | 3

[ :SOURce ] :PAGing:POCS:FUNction?

---

## **4 8656B, 8657A/B/D/J Programming Codes**

## Programming Codes

### Compatible Codes

8656B, 8657A/B/D/J Codes <sup>a</sup>	Description	Equivalent SCPI Command Syntax
AM	Amplitude Modulation	[[:SOURCE]:AM[1] 2[:DEPTH][[:LINEAR] <val><unit> UP DOWN  For additional commands, refer to, “S1, S2, or S3 used with AM” on page 126
AO	Amplitude Offset	[[:SOURCE]:POWER[:LEVEL][IMMEDIATE]: OFFSet <val><unit>
AP	Amplitude (carrier)	[[:SOURCE]:POWER[:LEVEL][:IMMEDIATE] [:AMPLITUDE] <val><unit>
DB	Unit used with the power command	DB
DF	Unit used with the power command	DB
DM	Unit used with the power command	DBM
DN	Step Down	No equivalent SCPI command
EM	Unit used with the power command	EMF
FM	Frequency Modulation	[[:SOURCE]:FM[1] 2[:DEVIATION] <val><unit>  For additional commands, refer to, “S1, S2, or S3 used with FM” on page 127.
FR	Frequency (carrier)	[[:SOURCE]:FREQUENCY[:CW] <val><unit>
GT	Flexible Sequence	No equivalent SCPI command
HZ	Unit used with the frequency command	HZ

<b>8656B, 8657A/B/D/J Codes<sup>a</sup></b>	<b>Description</b>	<b>Equivalent SCPI Command Syntax</b>
IS <sup>b</sup>	Increment Set	No equivalent SCPI command
KZ	Unit used with the frequency command	kHZ
MV	Unit used with the power command	mV
MZ	Unit used with the frequency command	MHZ
P0 <sup>c</sup>	Digital Modulation Off	Refer to, <a href="#">“P0 (Digital Modulation Off)”</a> on page 125.
P4 <sup>c</sup>	Digital Modulation On	Refer to, <a href="#">“P4 (Digital Modulation On)”</a> on page 125.
PC <sup>d</sup>	Unit used with the modulation command	PCT
PD	Phase Decrement	[ :SOURce ] : PHASE [ : ADJust ] <val><RAD>
PF	Pulse Modulation (Fast Mode)	Refer to, <a href="#">“PF (Pulse Modulation-Fast Mode) or PM (Pulse Modulation)”</a> on page 125.
PI	Phase Increment	[ :SOURce ] : PHASE [ : ADJust ] <val><RAD>
PM	Pulse Modulation	[ :SOURce ] : PULM : SOURce EXT2 [ :SOURce ] : PULM : STATe ON
QS	Reverse Sequence	*RCL <reg>
RC	Recall (0–9)	*RCL <reg>
RL	Recall (0–99)	*RCL <reg>
RP <sup>e</sup>	Reverse Power Protection Reset	No equivalent SCPI command
R2	RF Off	OUTPut [ : STATE ] OFF
R3	RF On	OUTPut [ : STATE ] ON
R5	RF Dead (Full Attenuator)	OUTPut [ : STATE ] OFF

## Programming Codes

8656B, 8657A/B/D/J Codes <sup>a</sup>	Description	Equivalent SCPI Command Syntax
SQ	Sequence	*RCL <reg>
ST	Save (0–9)	*SAV <reg>
SV	Save (0–99)	*RCL <reg>
S1	External Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 126 or “S1, S2, or S3 used with FM” on page 127.
S2	Internal 400 Hz Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 126 or “S1, S2, or S3 used with FM” on page 127.
S3	Internal 1 kHz Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 126 or “S1, S2, or S3 used with FM” on page 127.
S4	Modulation Source Off	Refer to, “S4 (Modulation Source Off)” on page 128.
S5	DC FM	Refer to, “S5 (DC FM)” on page 128.
UP	Step Up	No equivalent SCPI command
UV	Unit used with the power command	UV
VL	Unit used with the power command	V
0-9	Numerals 0–9	0–9
–	Minus Sign	–
.	Decimal Point	.
% <sup>d</sup>	Unit used with the modulation command	PCT

- a. Program codes are either upper or lower case.
- b. Increment Set is implemented for frequency (FR) and amplitude (AP) only.
- c. This code is used with the NADC, PDC, and PHS digital modulation.
- d. Either PC or % can be used.
- e. The source of reverse power must be removed.



## Non-Compatible Codes

8656B, 8657A/B/D/J Codes	Description
HI	HI ALC
LO	LO ALC
R0	Standby
R1	On

---

## Command Mapping

When using the 8656B, 8657A/B/D/J-compatible programming codes, the E4438C internally maps these codes to an equivalent SCPI response. In addition, the modulation source selections for the 8656B, 8657A/B/D/J differ from those available in the E4438C and therefore, are mapped to a valid selection. (Refer to [Table 4-1](#).)

**Table 4-1**

<b>Modulation Sources</b>	
<b>8656B, 8657A/B/D/J</b>	<b>ESG Vector Signal Generator</b>
AM, Internal	AM1, Internal 1
AM, External	AM2, External 1
FM, Internal	FM1, Internal 1
FM, External	FM2, External 1
AM, Internal and External	AM1, Internal 1 and AM2, External 1
FM, Internal and External	FM1, Internal 1 and FM2, External 1

---

**NOTE** The 8656, 8657A/B/D/J signal generators allow multiple modulations to use the same input, the E4438C does not. If you configure multiple modulations on the same input, the E4438C automatically disables the modulations.

---

The mapping between the 8656B, 8657A/B/D/J-compatible programming codes and the SCPI commands changes depending on the programming codes being executed. Refer to the following sections for explanations of the codes that are affected.

## P0 (Digital Modulation Off)

This code turns off the digital modulation for NADC (8657D), PDC (8657D), and PHS (8657J). Replace <format> with either NADC, PDC, or PHS as needed. The P0 code is mapped to the following SCPI command:

```
[ :SOURce]:RADIo:<format>:STATe OFF
```

## P4 (Digital Modulation On)

This code turns off the AM and FM modulation and turns on the digital modulation for NADC (8657D), PDC (8657D) and PHS (8657J).

The P4 code is mapped to the following SCPI commands:

- [ :SOURce]:AM[1]:STATe OFF
- [ :SOURce]:AM2:STATe OFF
- [ :SOURce]:FM[1]:STATe OFF
- [ :SOURce]:FM2:STATe OFF
- [ :SOURce]:DM:SOURce INTernal1
- [ :SOURce]:RADIO:<format>:STATe ON
- [ :SOURce]:RADIO:<format>:REPeat CONT
- [ :SOURce]:RADIO:<format>:DATA EXTernal
- [ :SOURce]:DM:STATe ON

where <format> is either NADC, PDC, or PHS depending on the specific compatibility language selected.

## PF (Pulse Modulation-Fast Mode) or PM (Pulse Modulation)

The E4438C supports only one input selection for pulse which is EXTernal 2 (EXT 2 INPUT connector). This is a DC-coupled input. Internal pulse modulation, therefore, is not supported in the 8656B, 8657A/B/D/J-compatible language modes. The PF or PM code is mapped to the following SCPI commands:

- [ :SOURce]:PULM:SOURce EXTernal2
- [ :SOURce]:PULM:STATe ON

## S1, S2, or S3 used with AM

When the AM code is executed, the following occurs:

- AM becomes the active function.
- AM1 and AM2 depth values are coupled by mapping to the following command:  
[:SOURCE]:AM[1]|2[:DEPTH]:TRACK ON.

If AM is on, or there is no active modulation, a sequence of SCPI commands are implemented when an AM code is executed with a modulation source code. [Table 4-2](#) shows the sequence of SCPI commands that are implemented.

**Table 4-2**

	AM On	No Active Modulation
S1	[:SOURCE]:AM2:EXTERNAL[1]: COUPLing AC [:SOURCE]:AM2:SOURce EXTernall	[:SOURCE]:AM2:EXTERNAL[1]: COUPLing AC [:SOURCE]:AM2:SOURce EXTernall [:SOURCE]:AM2:STATe ON
S2	[:SOURCE]:AM[1]:SOURce INT[1] [:SOURCE]:AM[1]:INTernall[1]: FREQuency 400 HZ	[:SOURCE]:AM[1]:SOURce INT[1] [:SOURCE]:AM[1]:INTernall[1]: FREQuency 400 HZ [:SOURCE]:AM[1]:STATe ON
S3	[:SOURCE]:AM[1]:SOURce INT[1] [:SOURCE]:AM[1]:INTernall[1]: FREQuency 1 kHz	[:SOURCE]:AM[1]:SOURce INT[1] [:SOURCE]:AM[1]:INTernall[1]: FREQuency 1 kHz [:SOURCE]:AM[1]:STATe ON

- If FM or pulse modulation is on, the signal generator attempts to set up AM with the same settings. [Table 4-3](#) shows the SCPI commands that are mapped.

**Table 4-3**

	FM1 On	FM2 or Pulse On
S1, S2, or S3	[:SOURCE]:AM[1]:SOURce INT[1] [:SOURCE]:AM[1]:STATe ON [:SOURCE]:FM[1]:STATe OFF	[:SOURCE]:AM2:SOURce EXTernall [:SOURCE]:AM2:STATe ON [:SOURCE]:FM2:STATe OFF [:SOURCE]:PULM:STATe OFF

## S1, S2, or S3 used with FM

When the FM code is executed, the following occurs:

- FM becomes the active function.
- FM1 and FM2 deviation values are coupled by mapping to the following command:  
`[ :SOURce]:FM[1]|2[:DEVIation]:TRACk ON.`

If FM is on, or there is no active modulation, a sequence of SCPI commands are implemented when an FM code is executed with a modulation source code. [Table 4-4](#) shows the sequence of SCPI commands that are implemented.

**Table 4-4**

	<b>FM On</b>	<b>No Active Modulation</b>
<b>S1</b>	<code>[ :SOURce]:FM2:EXTernal[1]: COUpling AC [ :SOURce]:FM2:SOURce EXTernal1</code>	<code>[ :SOURce]:FM2:EXTernal[1]: COUpling AC [ :SOURce]:FM2:SOURce EXTernal1 [ :SOURce]:FM2:STATe ON</code>
<b>S2</b>	<code>[ :SOURce]:FM[1]:SOURce INT[1] [ :SOURce]:FM[1]:INTernal[1]: FREQuency 400 HZ</code>	<code>[ :SOURce]:FM[1]:SOURce INT[1] [ :SOURce]:FM[1]:INTernal[1]: FREQuency 400 HZ [ :SOURce]:FM[1]:STATe ON</code>
<b>S3</b>	<code>[ :SOURce]:FM[1]:SOURce INT[1] [ :SOURce]:FM[1]:INTernal[1]: FREQuency 1 kHz</code>	<code>[ :SOURce]:FM[1]:SOURce INT[1] [ :SOURce]:FM[1]:INTernal[1]: FREQuency 1 kHz [ :SOURce]:FM[1]:STATe ON</code>

- If AM or pulse modulation is on, the signal generator attempts to set up FM with the same settings. [Table 4-5](#) shows the SCPI commands that are mapped.

**Table 4-5**

	<b>AM1 On</b>	<b>AM2 or Pulse On</b>
<b>S1, S2, or S3</b>	<code>[ :SOURce]:FM[1]:SOURce INT[1] [ :SOURce]:FM[1]:STATe ON [ :SOURce]:AM[1]:STATe OFF</code>	<code>[ :SOURce]:FM2: SOURce EXTernal1 [ :SOURce]:FM2:STATe ON [ :SOURce]:AM2:STATe OFF [ :SOURce]:PULM:STATe OFF</code>

**S4 (Modulation Source Off)**

- If PM is the current active function, pulse modulation is disabled by mapping to the following command:

```
[ :SOURce ] :PULM :STATe OFF
```

- If the last code executed is S2 or S3, internal modulation is turned off for the AM and FM on path one by mapping to the following commands:

```
[ :SOURce ] :AM[ 1 ] :STATe OFF
```

```
[ :SOURce ] :FM[ 1 ] :STATe OFF
```

- If the last code executed is S1, external modulation is turned off for the AM and FM on path two by mapping to the following commands:

```
[ :SOURce ] :AM2 :STATe OFF
```

```
[ :SOURce ] :FM2 :STATe OFF
```

- If the current active function is AM or FM, both paths are turned off by mapping to the following commands:

```
[ :SOURce ] :AM[ 1 ] :STATe OFF
```

```
[ :SOURce ] :AM2 :STATe OFF
```

```
[ :SOURce ] :FM[ 1 ] :STATe OFF
```

```
[ :SOURce ] :FM2 :STATe OFF
```

- If S4 is executed with S1, S2, or S3, it will turn off the current active modulation type.

**S5 (DC FM)**

- FM becomes the active function.
- In addition, the following commands are mapped:

```
[ :SOURce ] :FM2 :SOURce EXTErnal1
```

```
[ :SOURce ] :PULM :STATe OFF
```

```
[ :SOURce ] :AM[ 1 ] :STATe OFF
```

```
[ :SOURce ] :AM2 :STATe OFF
```

```
[ :SOURce ] :FM2 :EXTErnal[ 1 ] :COUPling DC
```

```
[ :SOURce ] :FM2 :STATe ON
```