

# **GPIB Command Syntax**

**for**

**E1963A W-CDMA/HSDPA Mobile Test Application Revision A.09**

**E6703C W-CDMA/HSDPA Lab Application Revision C.04**

**E6703D W-CDMA/HSDPA Lab Application Revision D.00**

**E6703T Special High Data Rate W-CDMA/HSDPA Lab Application  
Revision T.00**

1000-1922

Print Date: July 2006

**[www.agilent.com/find/E1963A](http://www.agilent.com/find/E1963A)**

**[www.agilent.com/find/E6703C](http://www.agilent.com/find/E6703C)**

**[www.agilent.com/find/E6703D](http://www.agilent.com/find/E6703D)**

**[www.agilent.com/find/E6703T](http://www.agilent.com/find/E6703T)**



**Agilent Technologies**

**NOTE:** *This guide is applicable to the E6703T, however there are a few exceptions which can be found in the online user's guide available at <http://wireless.agilent.com/rfcomms/refdocs/wcdma/default.php>*

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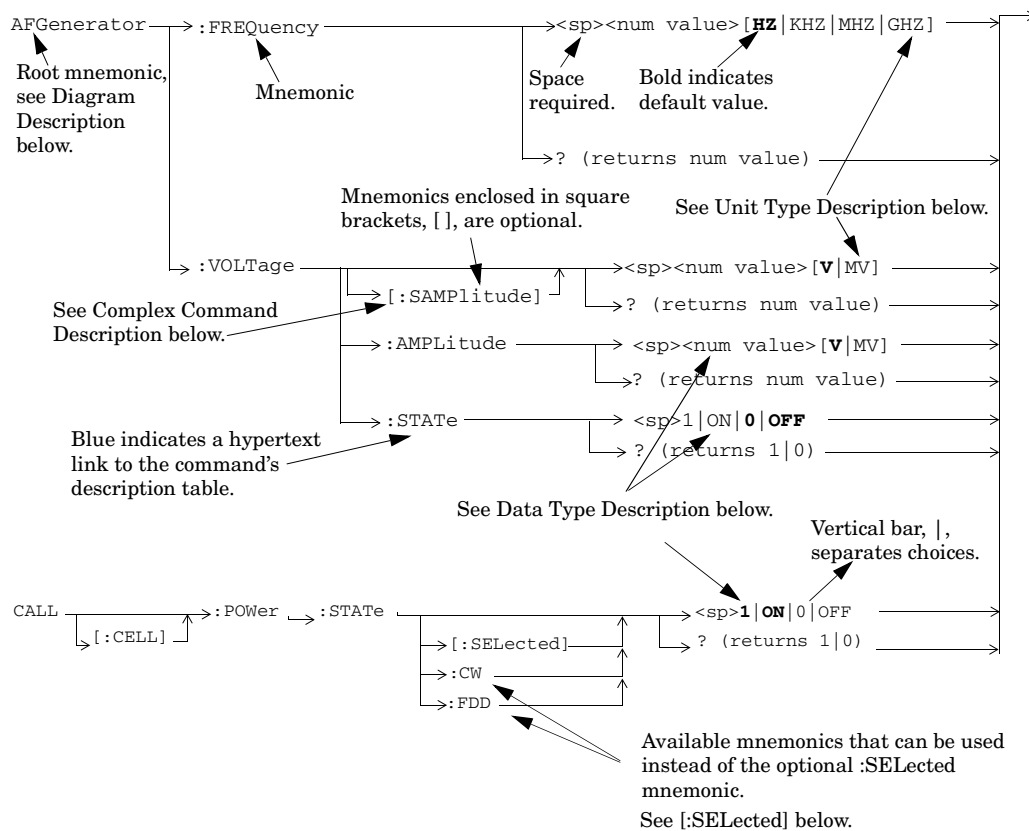
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## GPIB Syntax for E1963A and E6703C/D/T

### Diagram Conventions

#### Description



#### Diagram Description

Mnemonics are connected by lines. Each line can be followed in only one direction, as indicated by the arrow at the end of the line. Any combination of mnemonics that can be generated by starting at the root mnemonic and following the line in the direction of the arrow is syntactically correct.

The uppercase letters of a mnemonic represent the short form of the mnemonic, whereas the long form of a mnemonic is the short form followed by the lowercase letters. The test set accepts either the long form or the short form of the mnemonic. The mnemonics that are inside square brackets are optional. That is, a command operates the same whether or not the mnemonic in square brackets is used in the command.

The drawings show the proper use of spaces. Where spaces are required they are indicated by <sp>, otherwise no spaces are allowed between mnemonics.

**Complex Command Description**

Complex commands are valuable because they set the state of the parameter and a value for that parameter. For example, the command in the above figure that contains the mnemonic [:SAMPlitude] is a complex command because sets the state to ON as well as the amplitude. You can use parameters such as amplitude, frequency, gain, number, time, and value as a complex command. Refer to the specific command for the parameter that applies.

**Data Type Description**

num value	Integer, float or scientific values. For example, CALL:POWer -55.5 CALL:POWer -5.55E+001 CALL:CHANnel 525
string	Characters. The string will often need to be enclosed in single or double quotes, depending upon your programming environment. For example,  CALL:UPLink:PRACHannel:ASUBchannels '111111111111'  The string returned by the test set is enclosed by double quotes.
choice1   choice2   choice3	Specific character choices. For example, CALL:OPERating:MODE D2KTest SYSTem:COMMunicate:GPIB:DEBug ON



### Unit Type Description

Some commands have optional units of measurement. These are displayed in square brackets. If no units are specified in the command then the default unit in bold font is used. The test set accepts the specified unit either with or without a space inserted between the <num value> and the unit (for example, both 10S and 10 S are valid). The following table summarizes the units available.

Description	Optional Units	Example
Amplitude (linear)	<b>V</b>   MV	To set the spectrum monitor's timeout interval to 20 seconds, use any of the following formats:  SETup:SMONitor:TIMEout:TIME 20 SETup:SMONitor:TIMEout:TIME 20S SETup:SMONitor:TIMEout:TIME 20 S
Power (logarithmic)	<b>DBM</b>   DBW	
Level (relative)	<b>DB</b>	
Frequency	<b>HZ</b>   KHZ   MHZ   GHZ	
Time	<b>S</b>   MS   US   NS	
Percentage	<b>PCT</b>	

### [:SElected] Mnemonic

The [:SElected] Mnemonic is an optional mnemonic that implies a current selection on the test set. Often there are other mnemonics that can be used in place of the [:SElected] mnemonic to configure a setting that is not the currently selected configuration on the test set. The mnemonics that can replace the [:SElected] mnemonic are listed in parentheses separated by vertical bars ( | ) in the description table title. An example of a command that contains the [:SElected] mnemonic is shown in the following table.

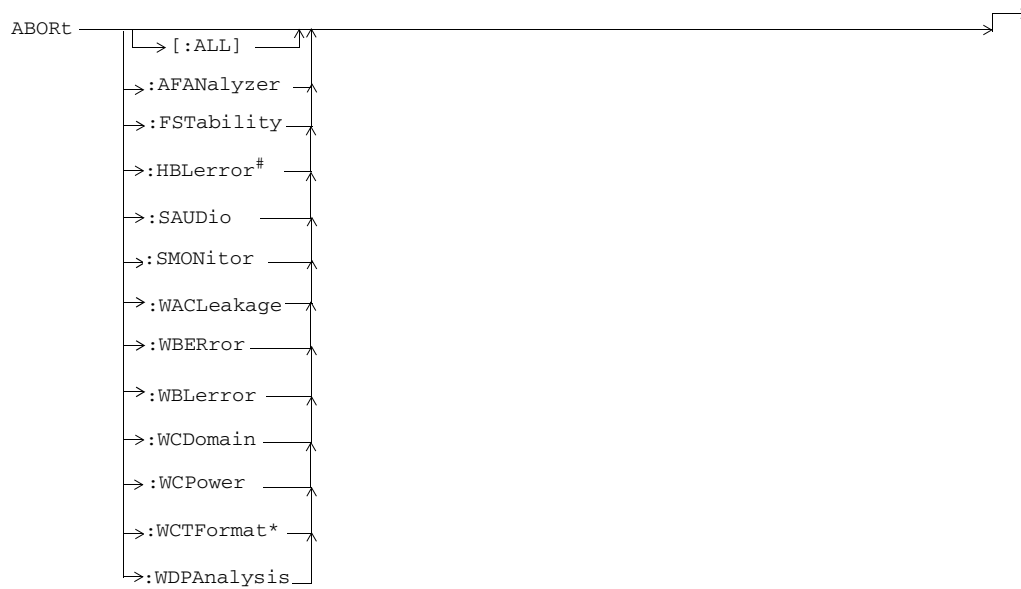
CALL[:CELL]:POWER:AMPLitude[:SElected]

CALL[:CELL]:POWER:AMPLitude:(CW|FDD) ←

Available mnemonics that can be use instead of the optional [:SElected] mnemonic.

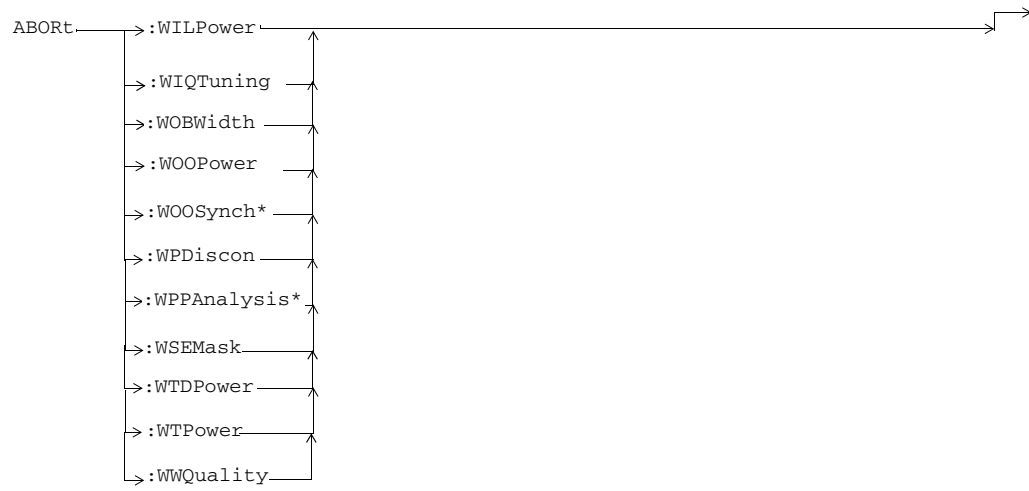
Function	Sets/queries the desired cell power level. (See "Cell Pow information about desired versus current power levels.)  The optional [:SElected] keyword in this command spec queried applies to the current system type (see "CALL[:C settings for the CW operating mode are independent of operating modes.
Setting	Range: (This is the range of settings accepted, see "Cell I Ranges" for the actual hardware range of the source  <ul style="list-style-type: none"> <li>FDD: -165 dBm/3.84MHz to +37 dBm/3.84MHz</li> <li>CW: -177 dBm to +46 dBm</li> </ul>

**ABORt**



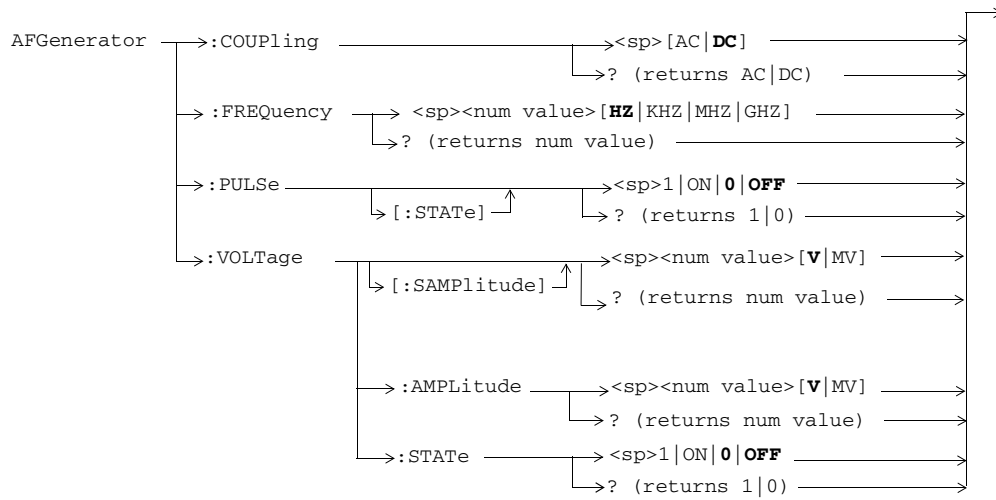
\* Only applicable to the lab application.

# Only applicable to a feature-licensed test application.

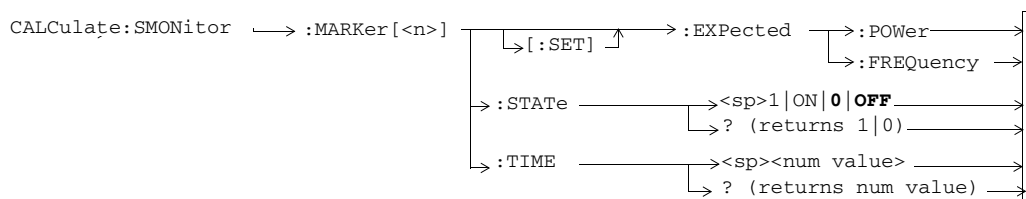
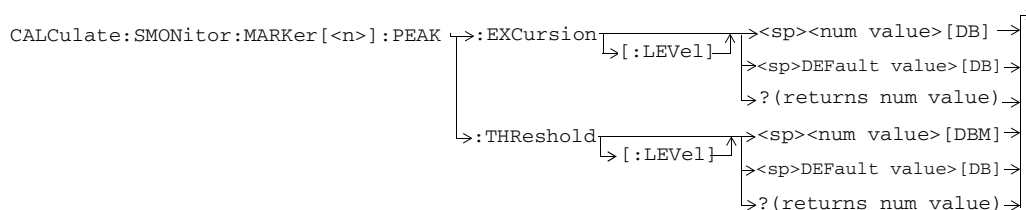
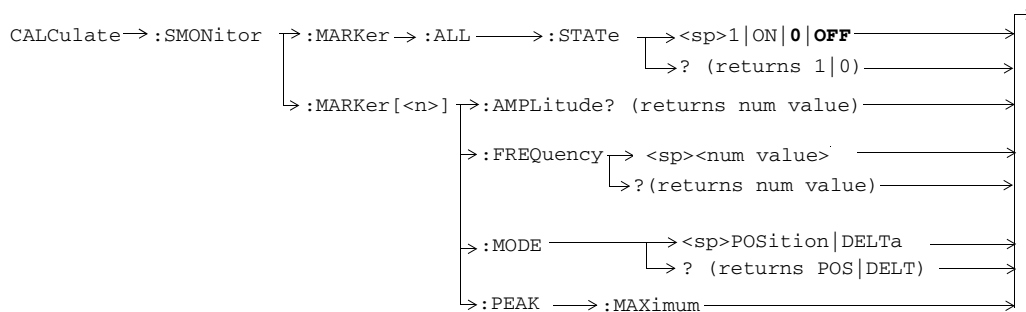


\* This command is only applicable to the lab application.

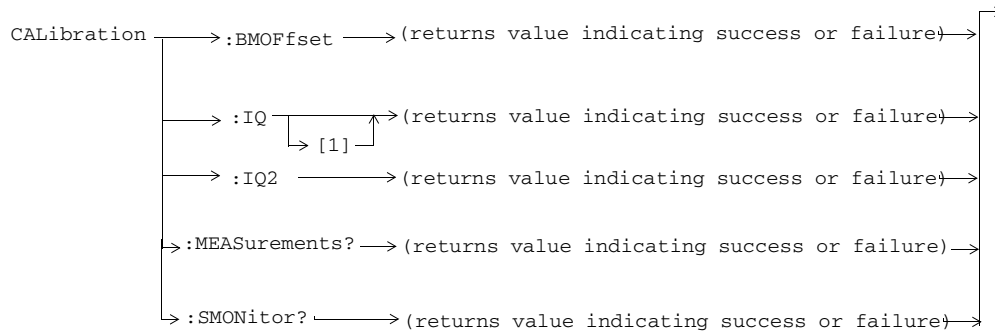
**AFGenerator**



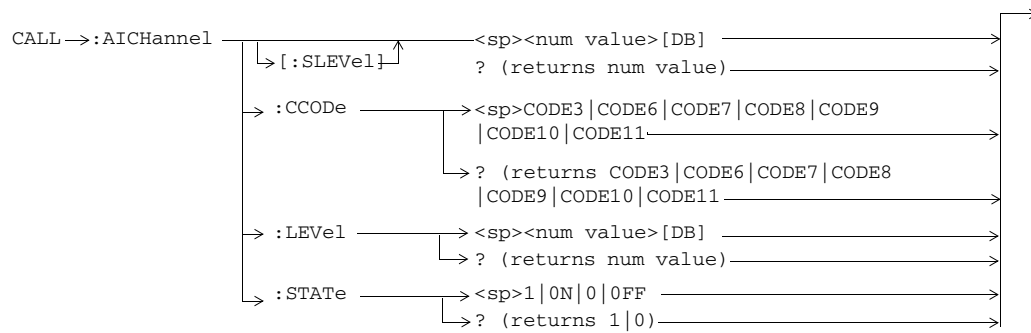
**CALCulate:SMONitor**



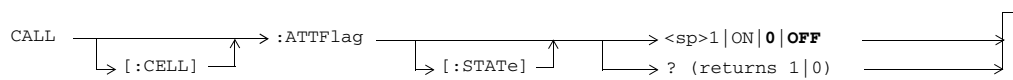
### CALibration



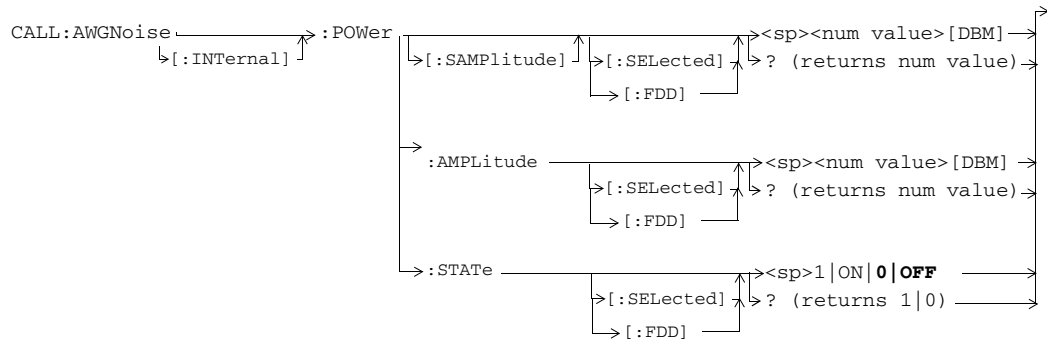
### CALL:AICHannel



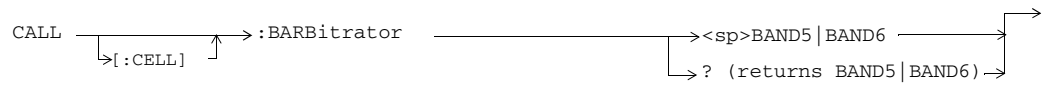
### CALL:ATTFlag



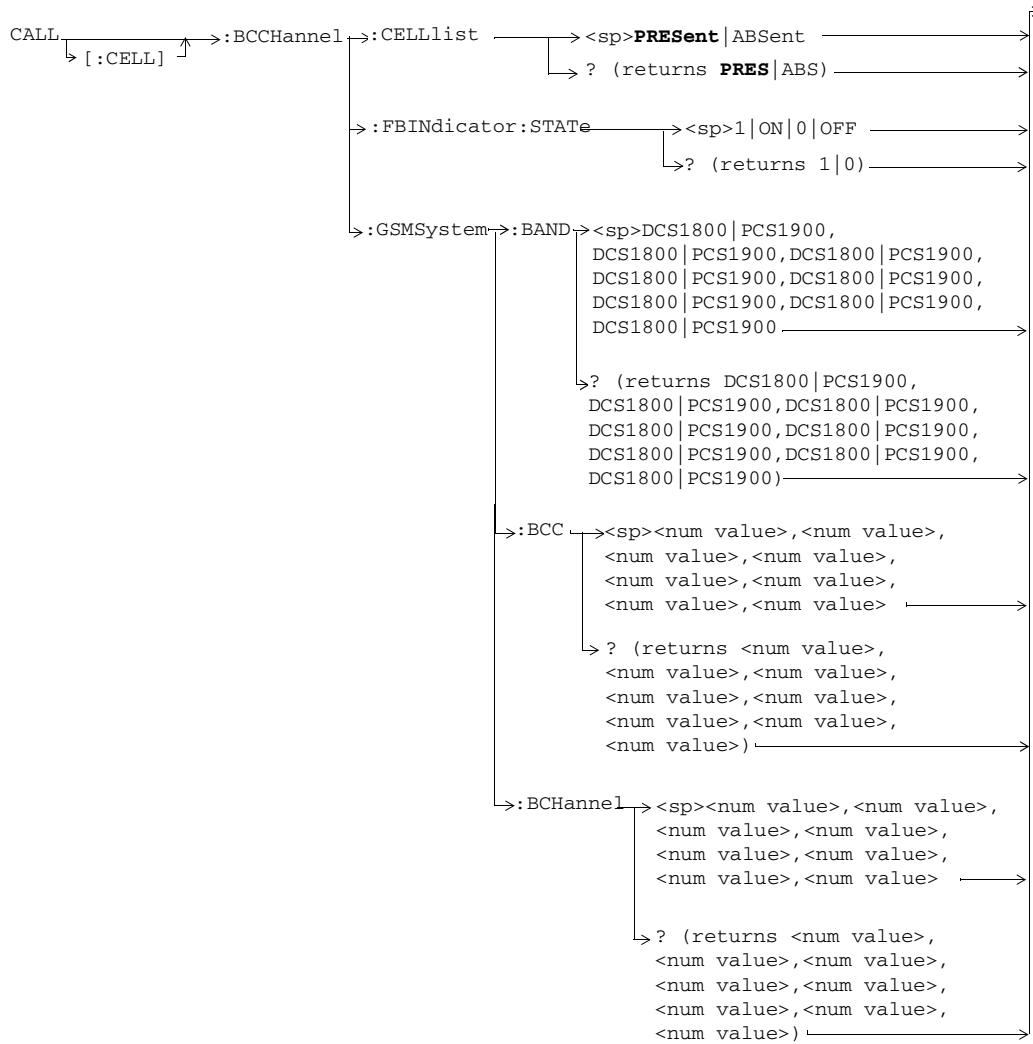
**CALL:AWGNoise**



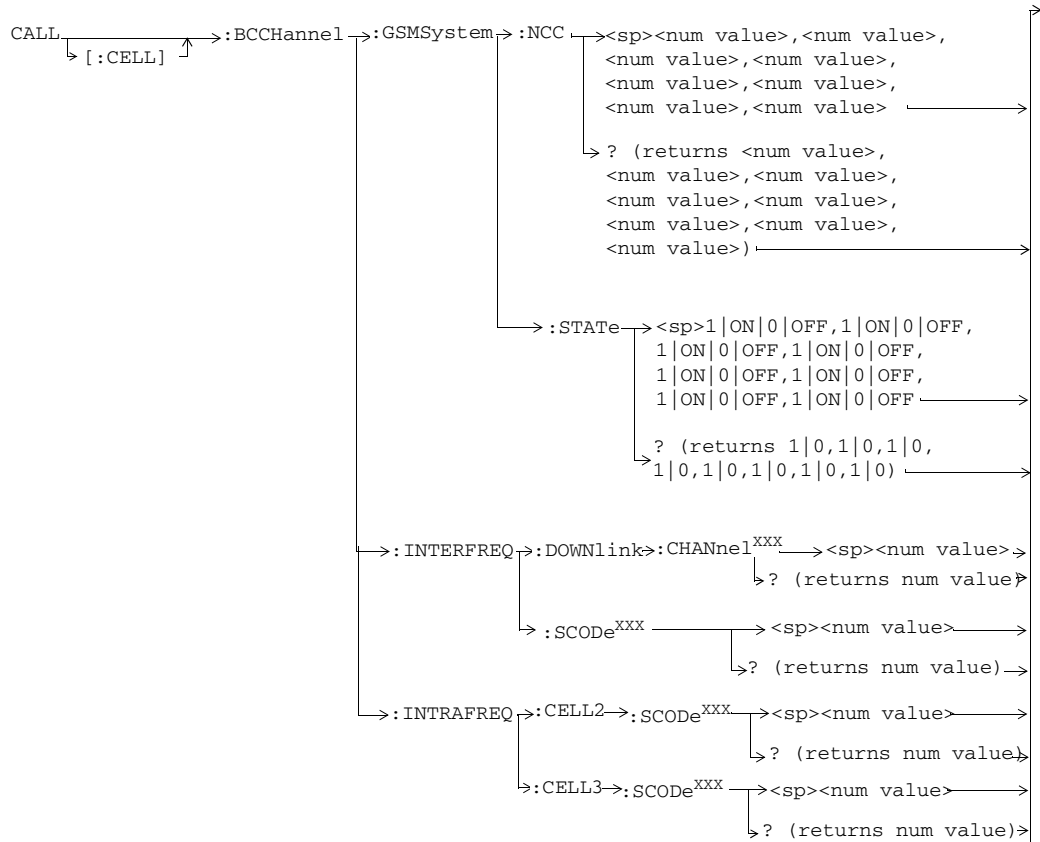
**CALL:BARBitrator**



**CALL:BCCHannel**

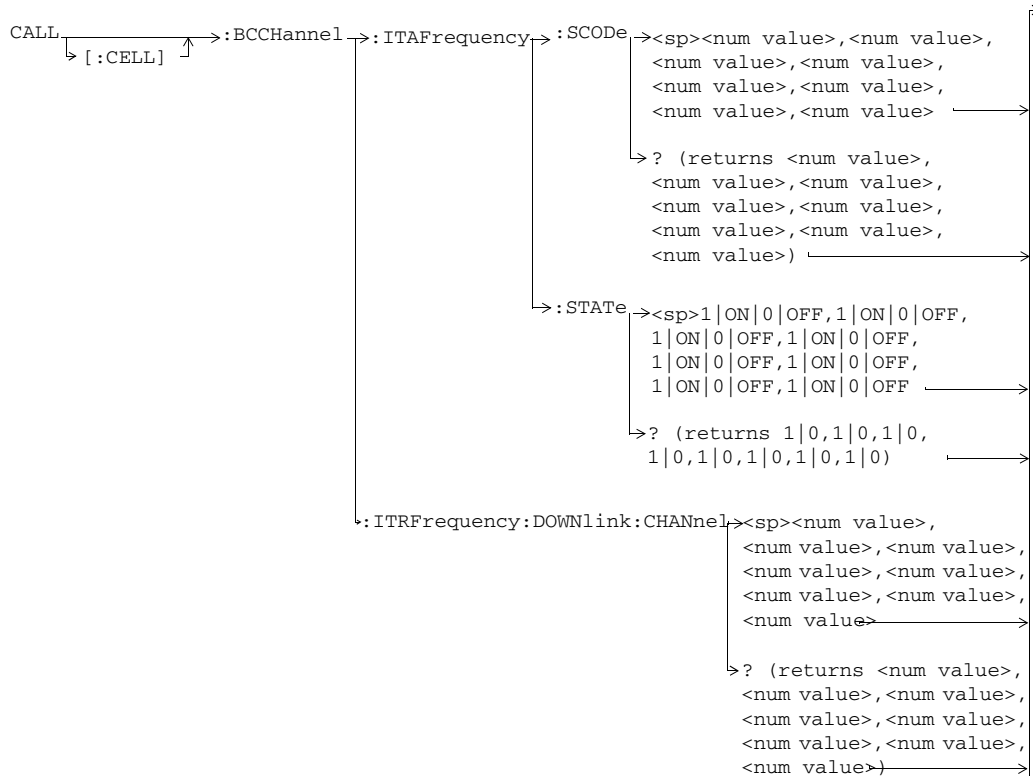


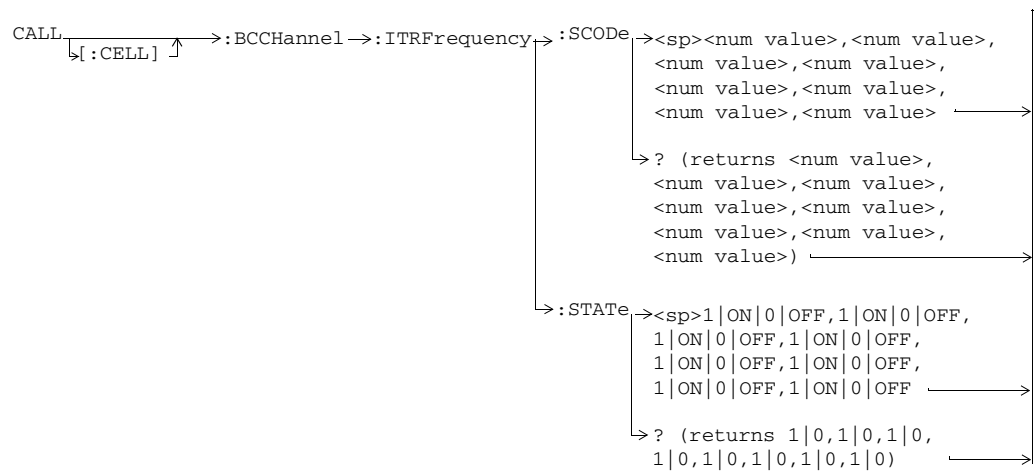




<sup>XXX</sup> This command is obsolete.

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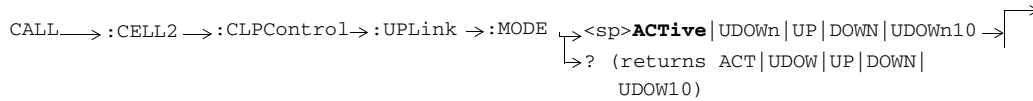
GPIB Syntax for E1963A and E6703C/D/T



\* This command is only applicable to the lab application.

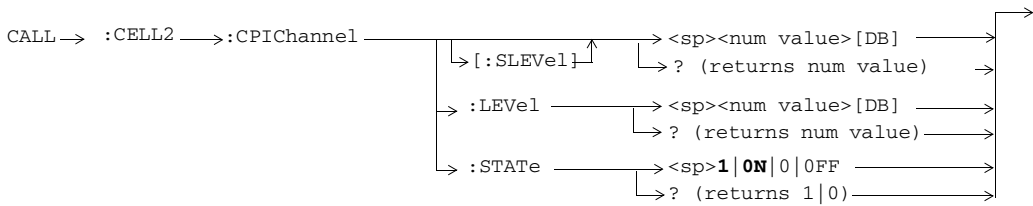


**CALL:CELL2:CLPControl**



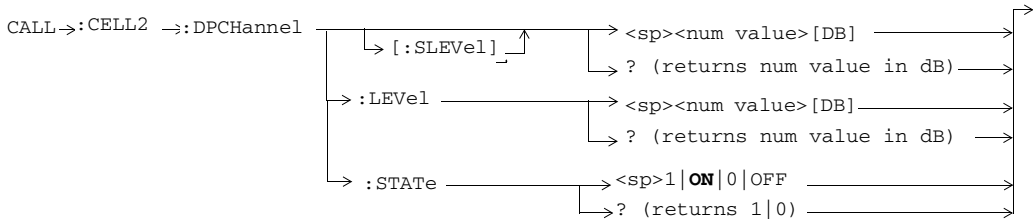
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:CPICchannel**



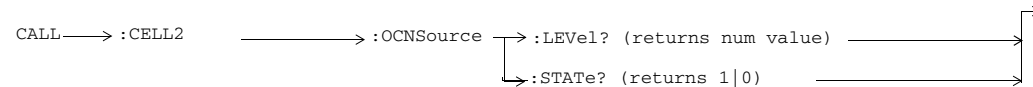
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:DPCHannel**



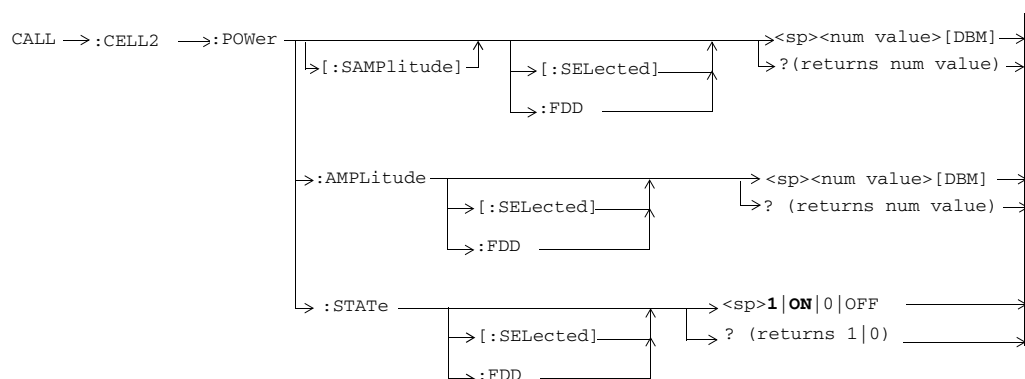
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:OCNSource**



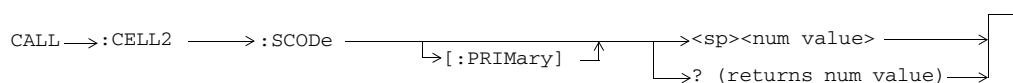
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:POWer**



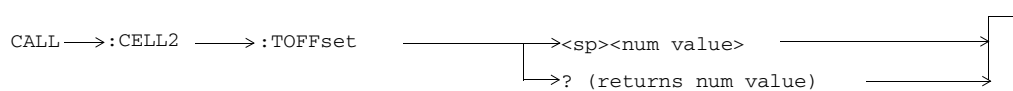
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:SCODE**



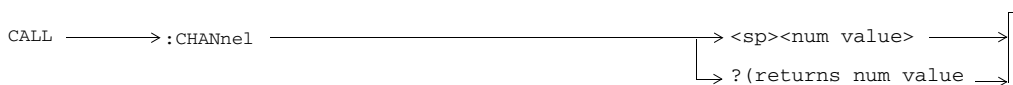
All commands shown in this diagram are only applicable to the lab application.

**CALL:CELL2:TOFFset**

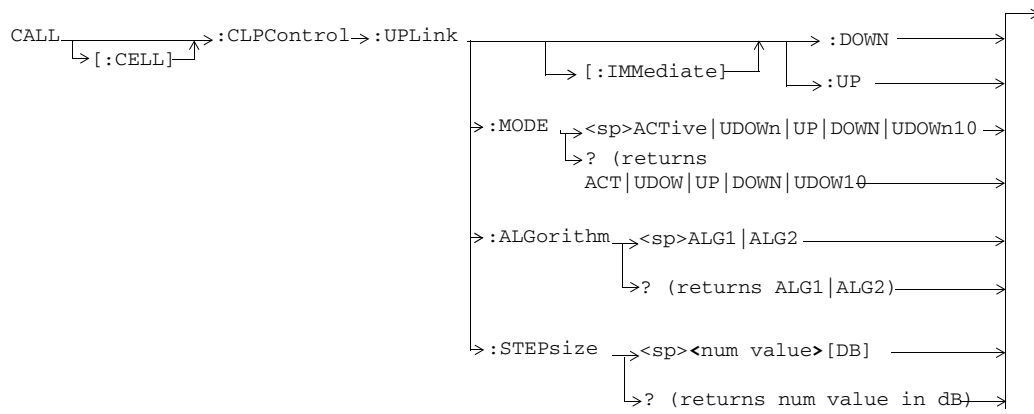


All commands shown in this diagram are only applicable to the lab application.

**CALL:CHANnel**



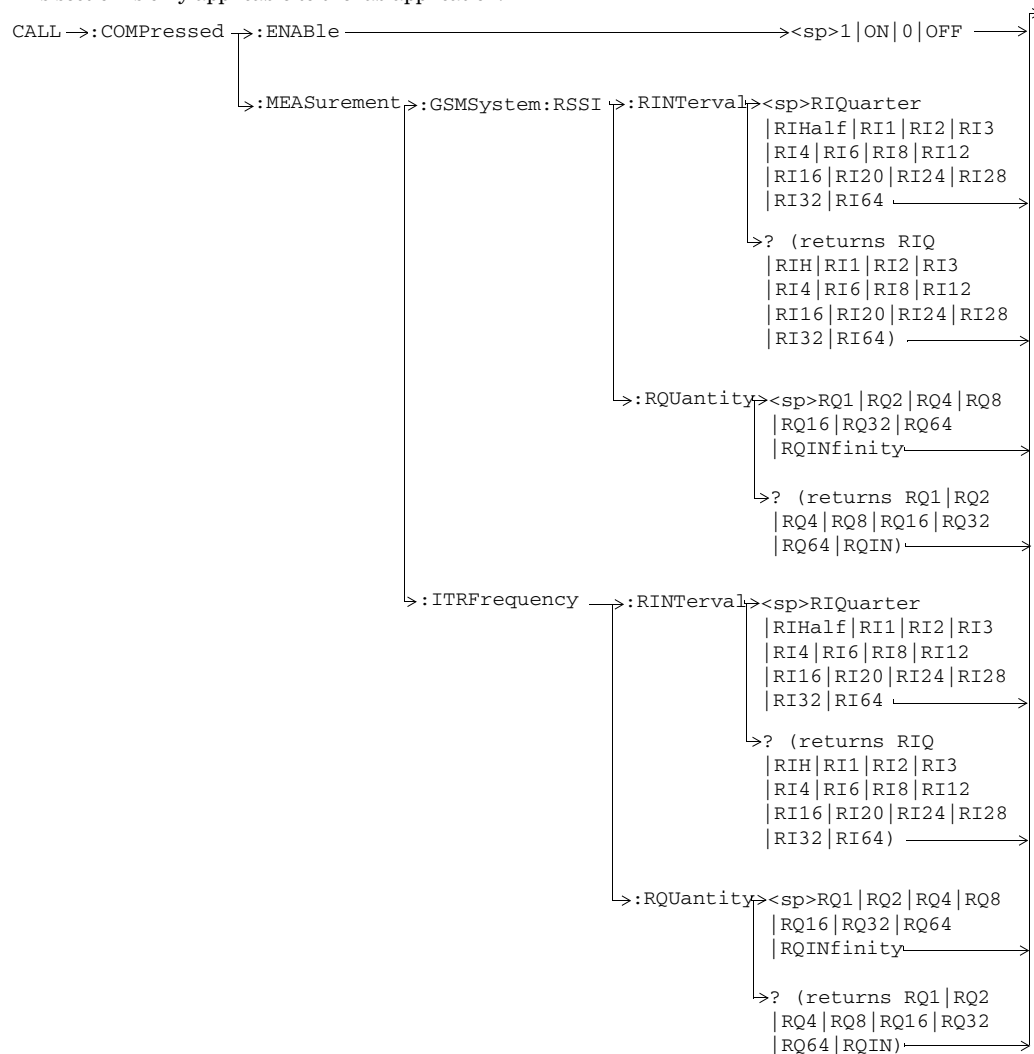
**CALL:CLPControl**



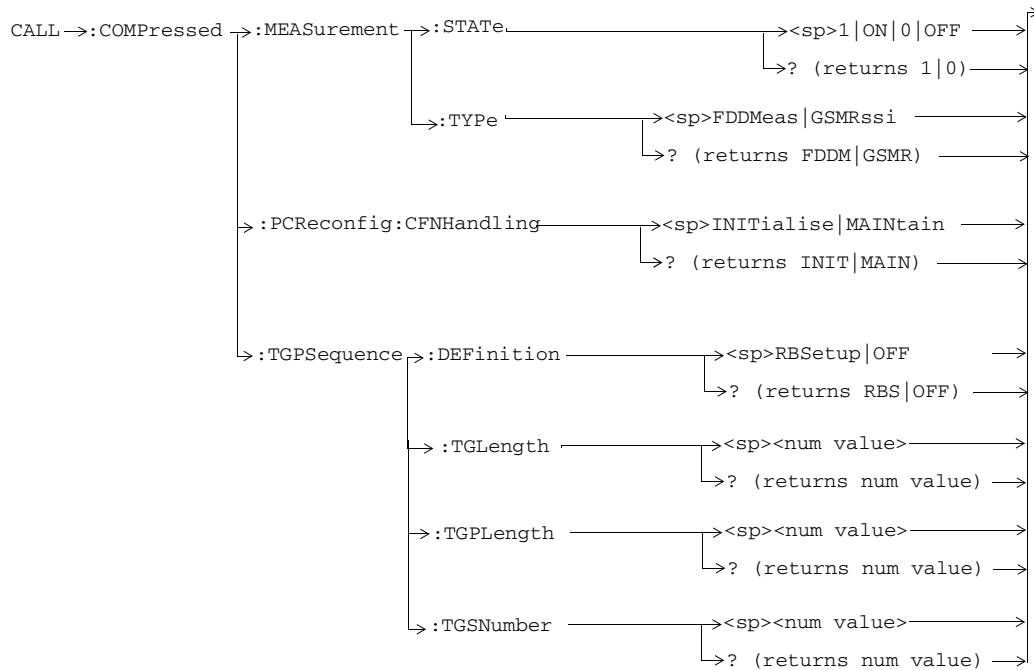


### CALL:COMPRESSED

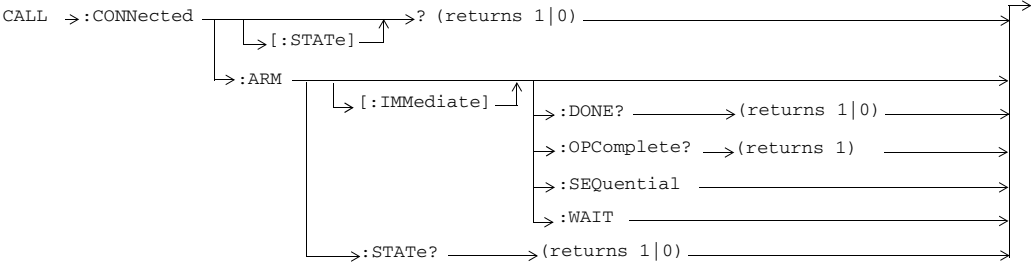
This section is only applicable to the lab application.



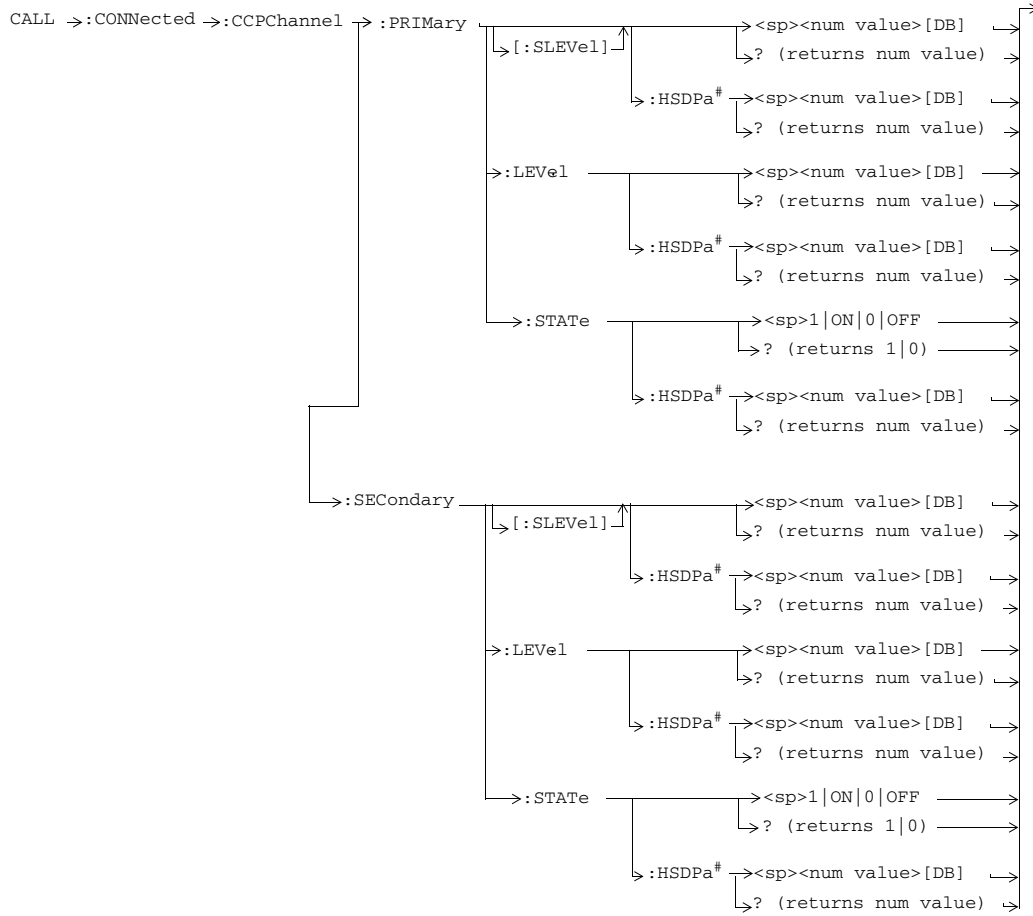
GPIB Syntax for E1963A and E6703C/D/T



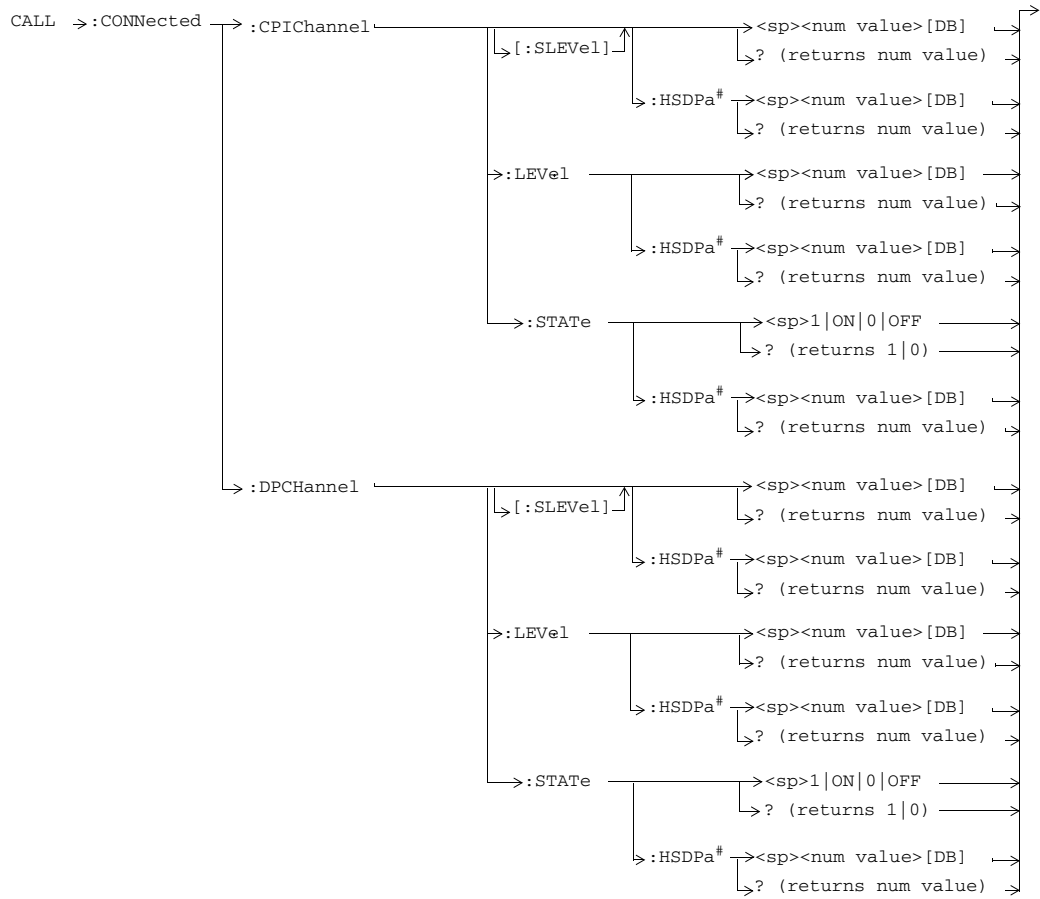
**CALL:CONNEcted**



GPIB Syntax for E1963A and E6703C/D/T

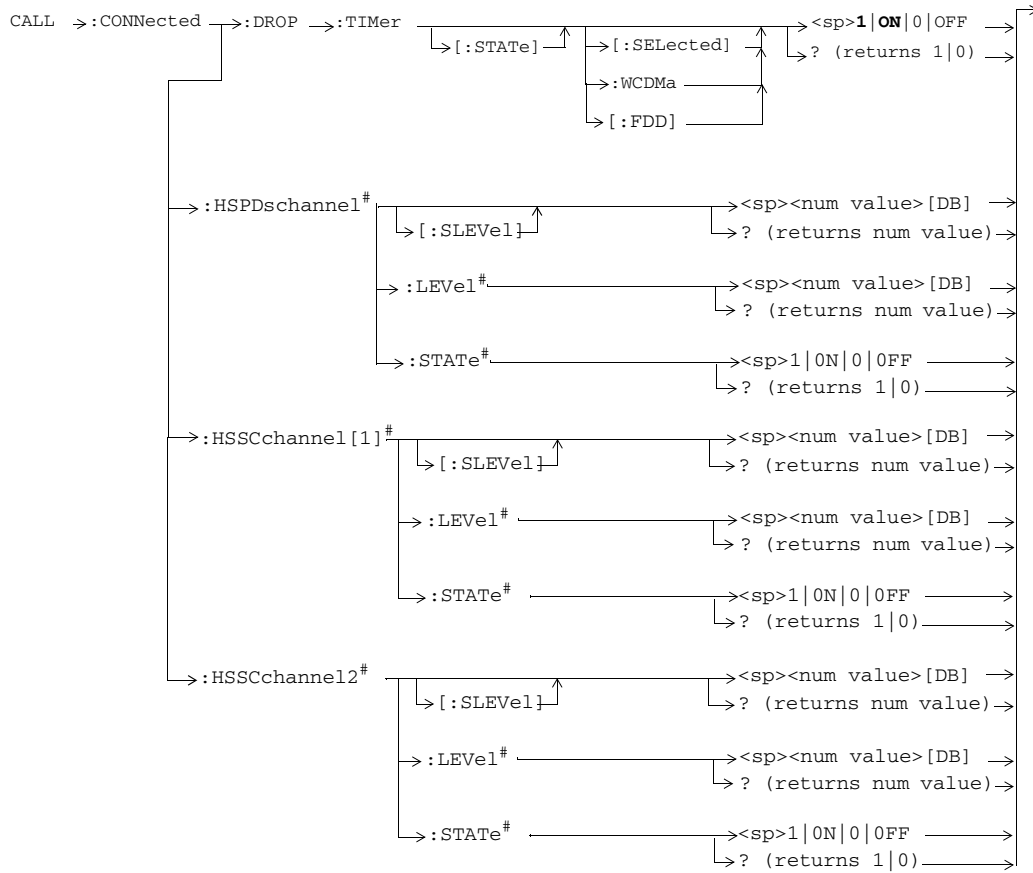


# Only applicable to the lab application or a feature-licensed test application

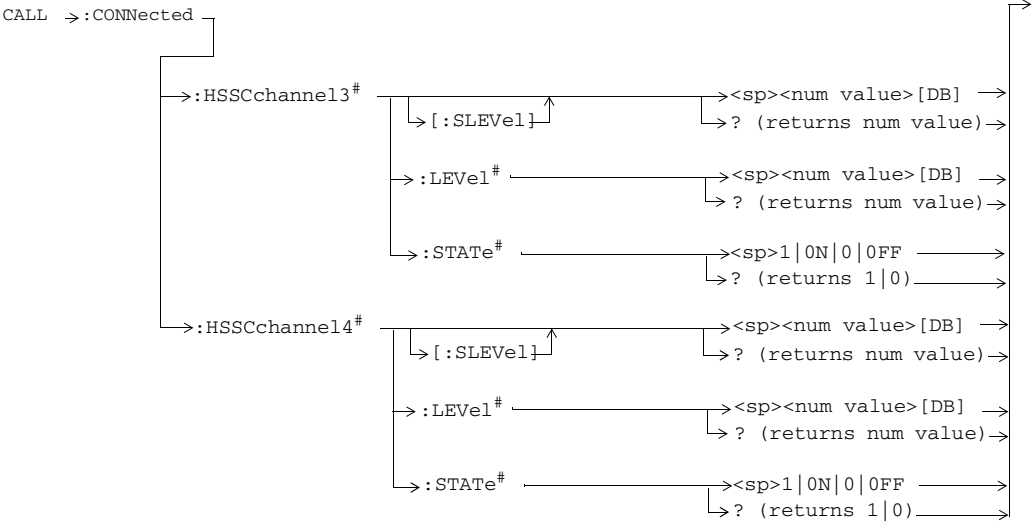


# Only applicable to the lab application or a feature-licensed test application

GPIB Syntax for E1963A and E6703C/D/T

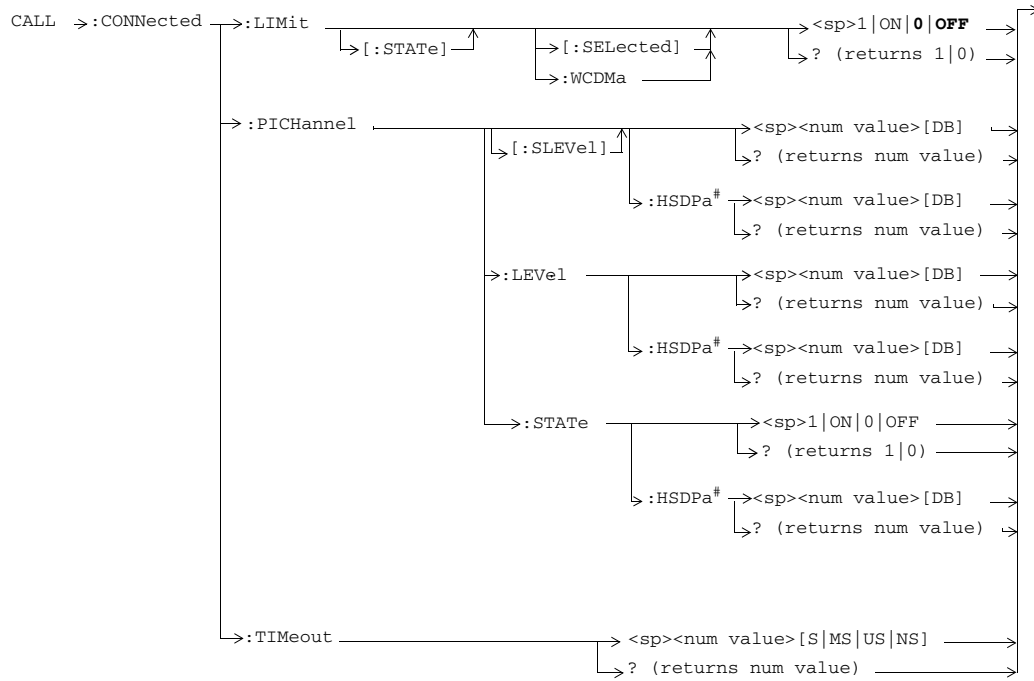


# Only applicable to the lab application or a feature-licensed test application



# Only applicable to the lab application or a feature-licensed test application

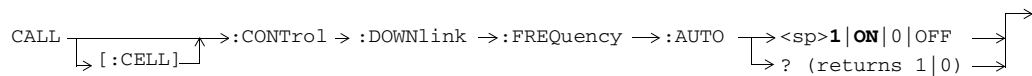
GPIB Syntax for E1963A and E6703C/D/T



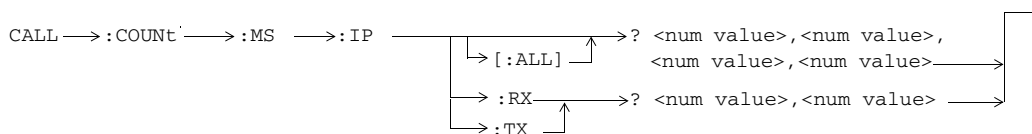
# Only applicable to the lab application or a feature-licensed test application



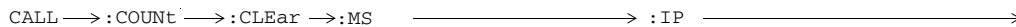
**CALL:CONTRol**



**CALL:COUNT**

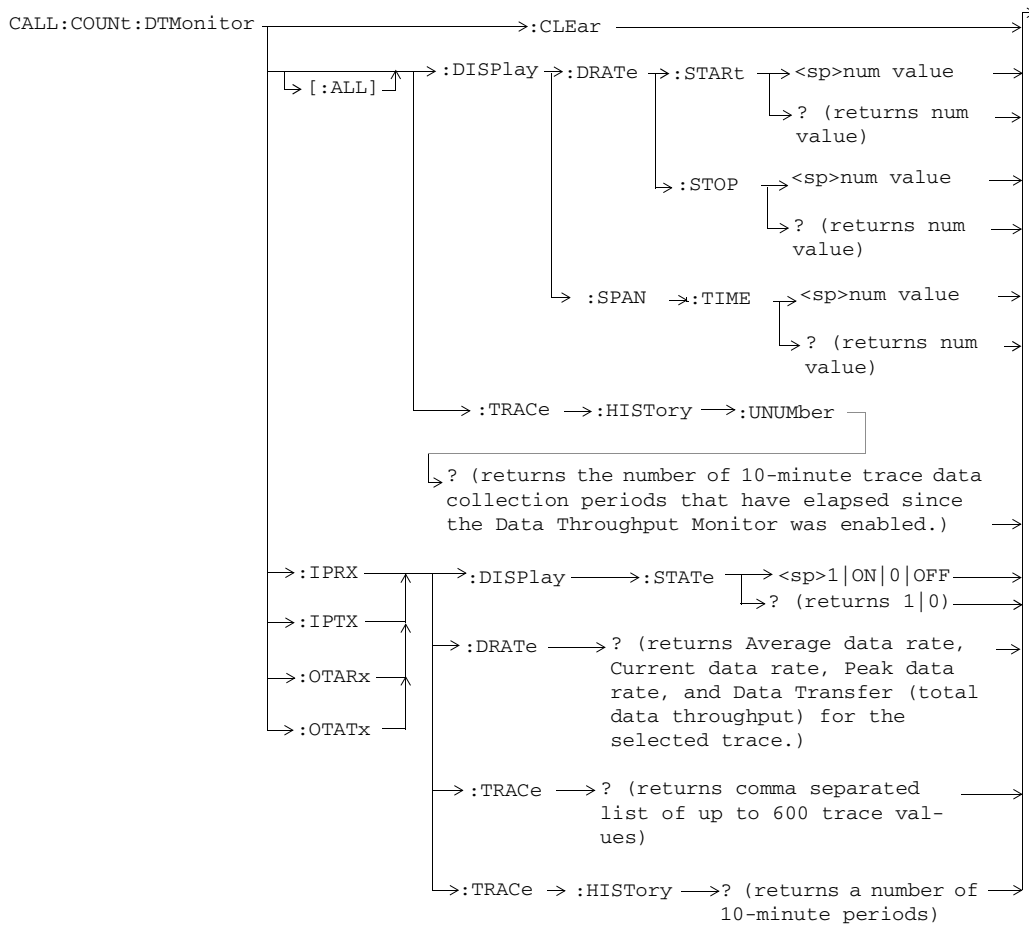


All commands shown in this diagram are only applicable to the lab application.



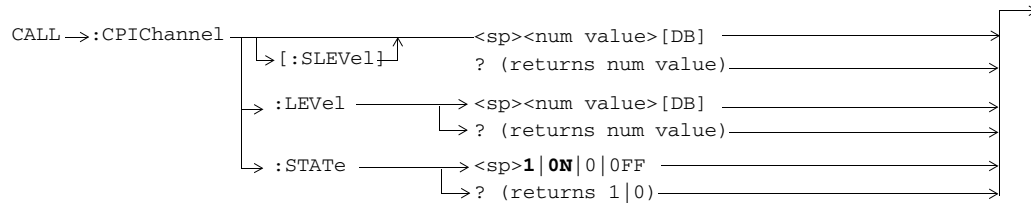
All commands shown in this diagram are only applicable to the lab application.

**CALL:COUNT:DTMonitor**

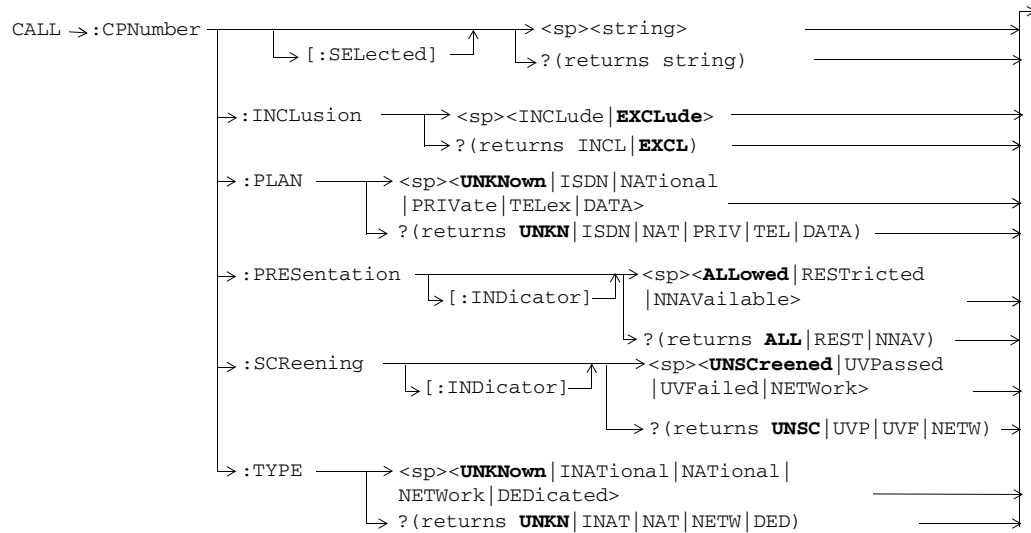


All commands shown in this diagram are only applicable to the lab application.

**CALL:CPICchannel**

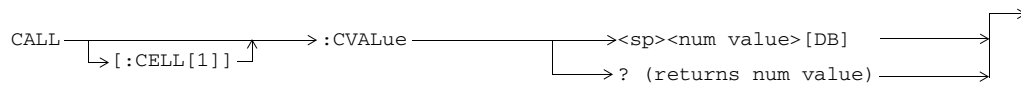


**CALL:CPNumber**



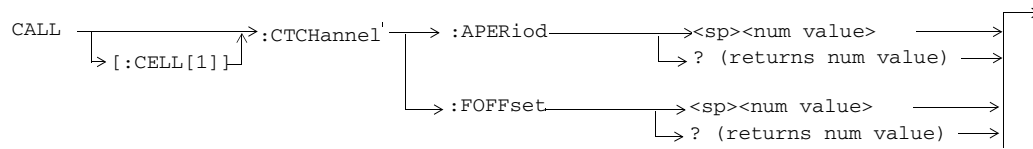
These commands are only applicable to the lab application.

**CALL:CVALue**

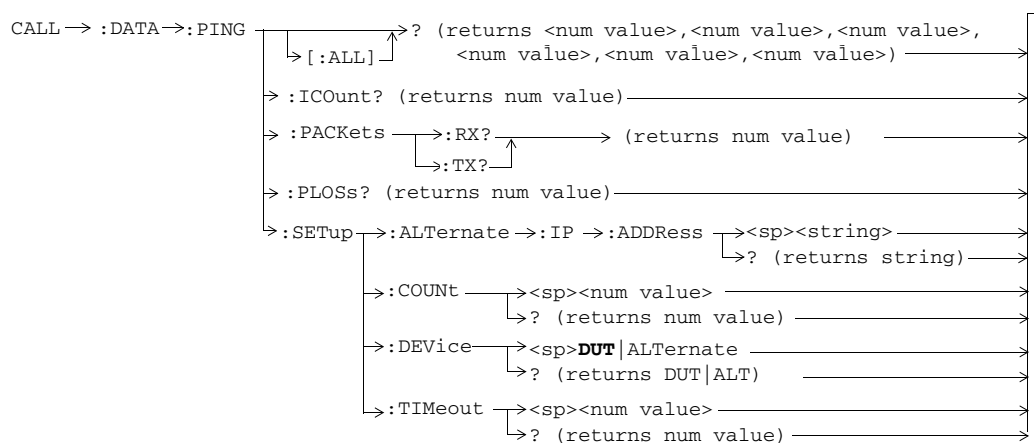


**CALL:CTCHannel**

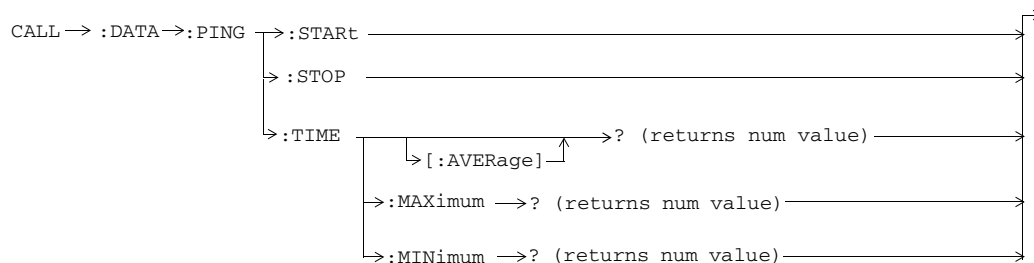
*This section is only applicable to the lab application.*



**CALL:DATA:PING**

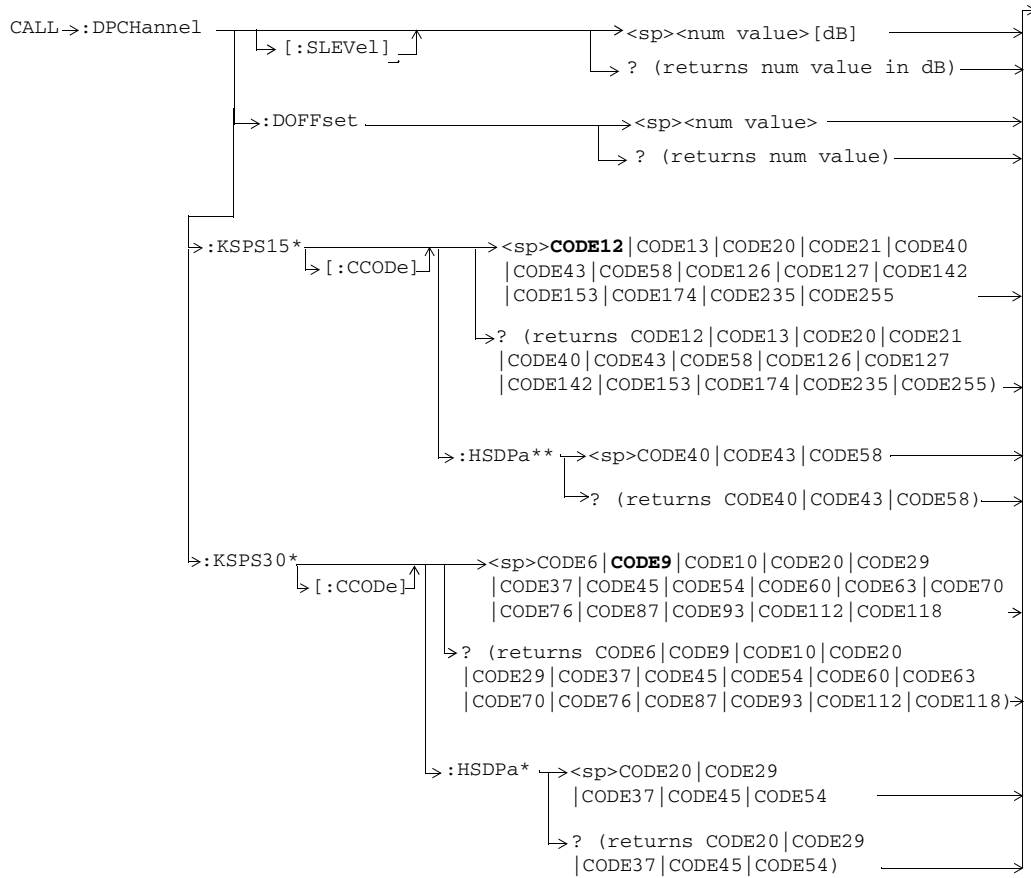


All commands shown in this diagram are only applicable to the lab application.



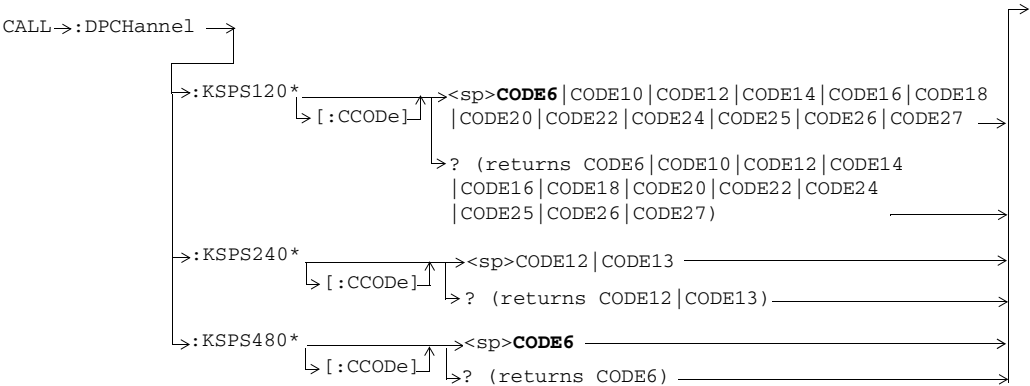
All commands shown in this diagram are only applicable to the lab application.

**CALL:DPCHannel**



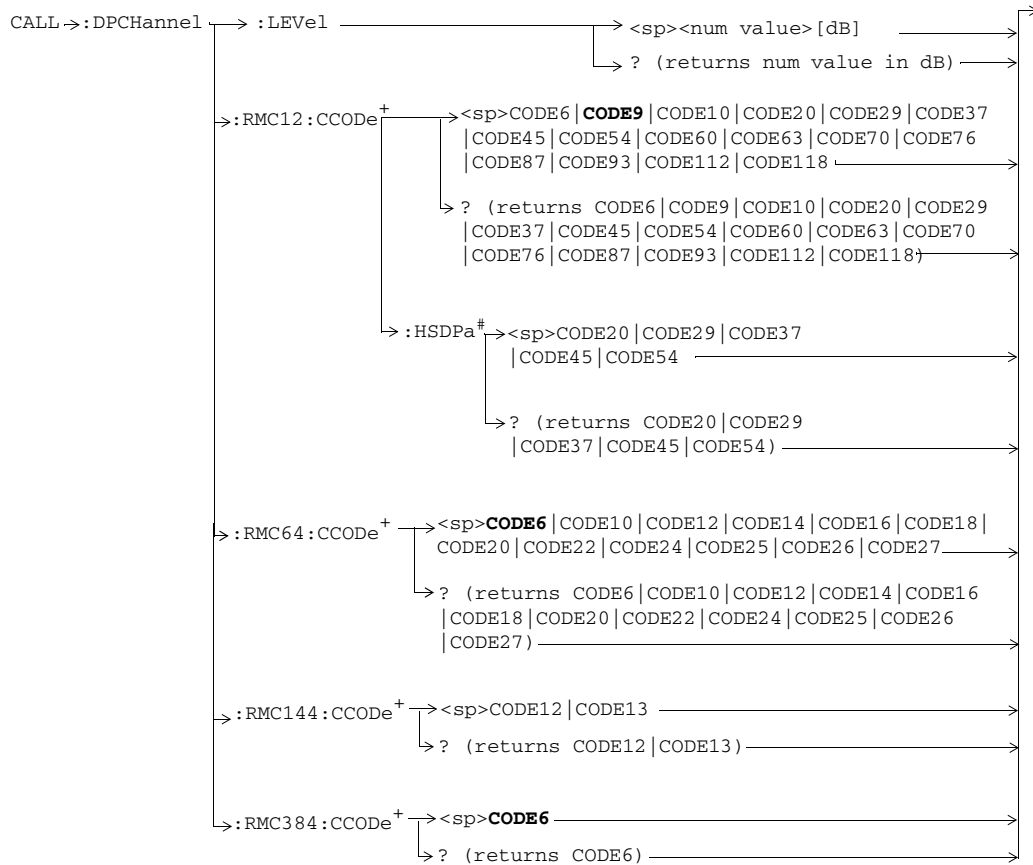
\* Only applicable to the lab application.

\*\* Only applicable to the E6703D.



\* This command is only applicable to the lab application.

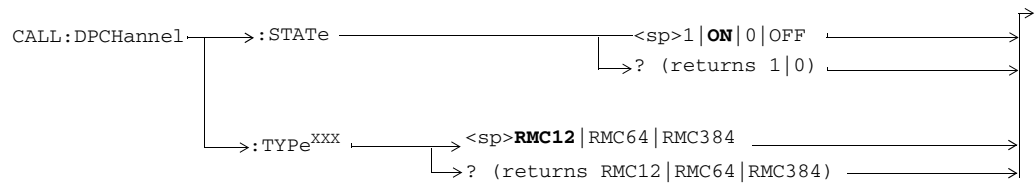
GPIB Syntax for E1963A and E6703C/D/T



+ This command is only applicable to the test application.

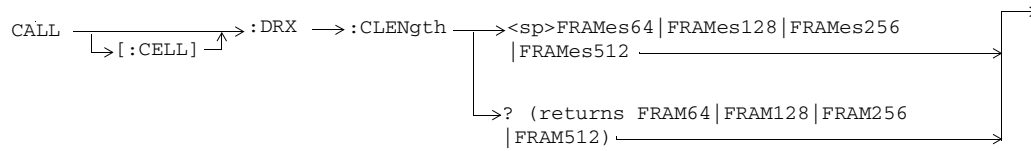
# This command is only applicable to a feature-licensed test application.



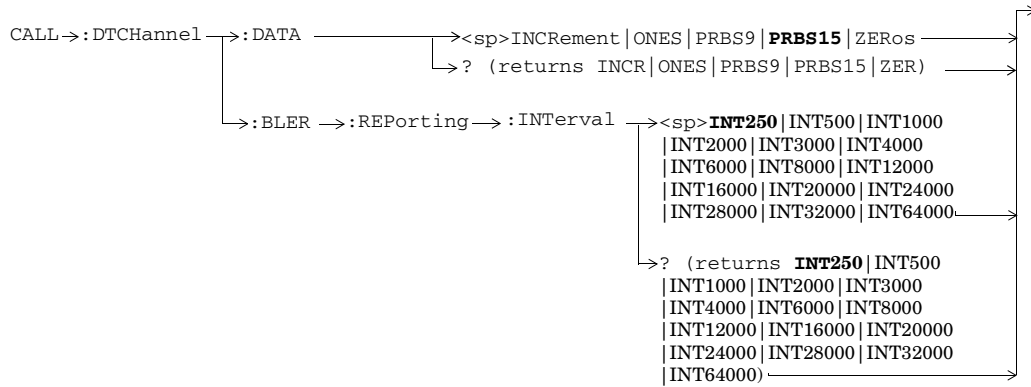


XXX This command is obsolete.

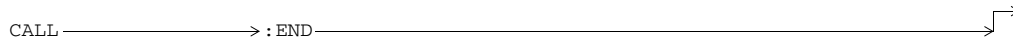
**CALL:DRX**



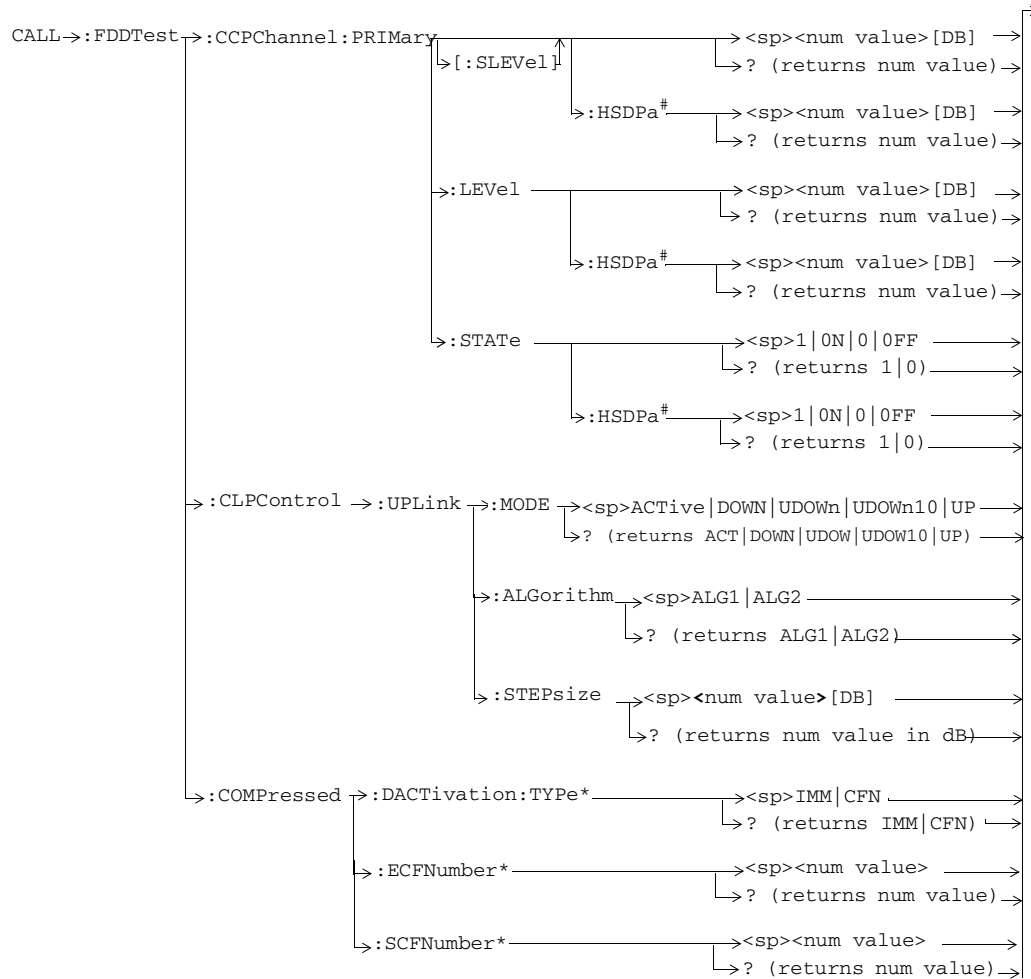
**CALL:DTCHannel**



**CALL:END**



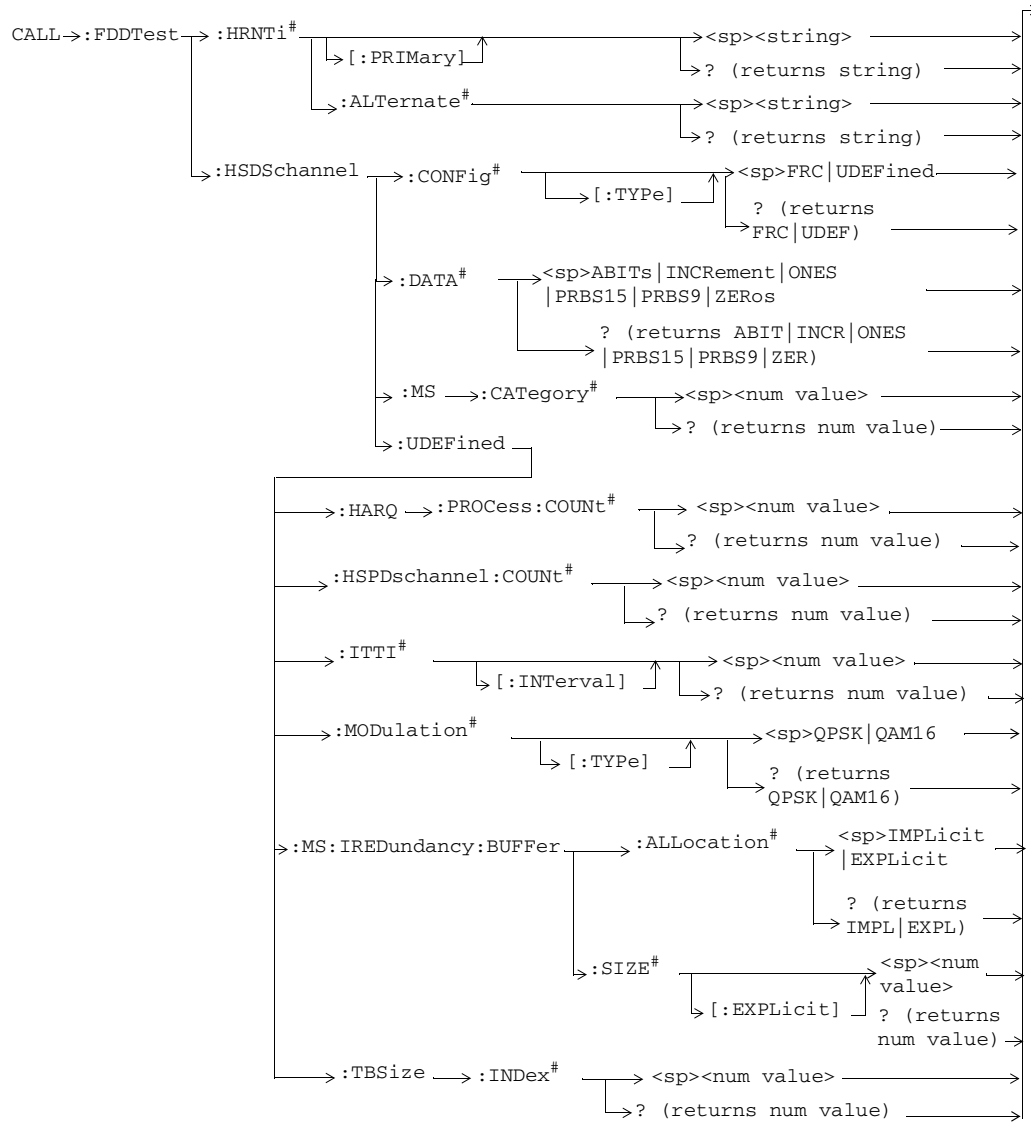
**CALL:FDDTest**



\* Only applicable to the lab application.

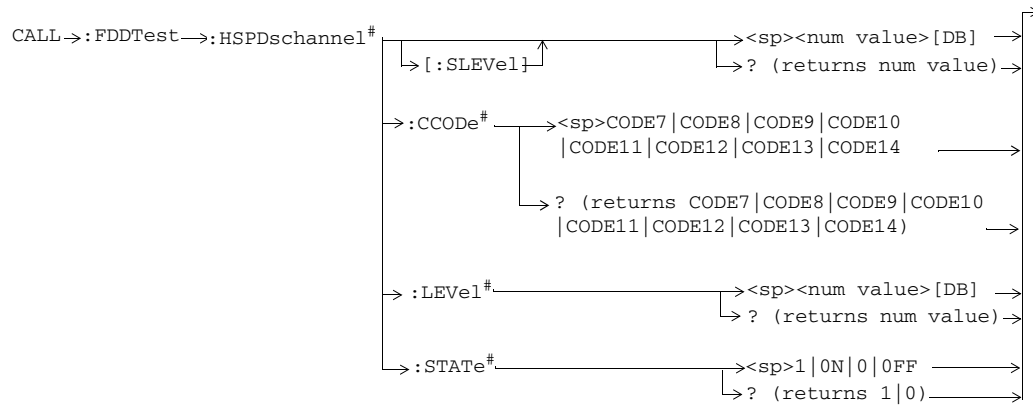
# Only applicable to a feature-licensed test application.



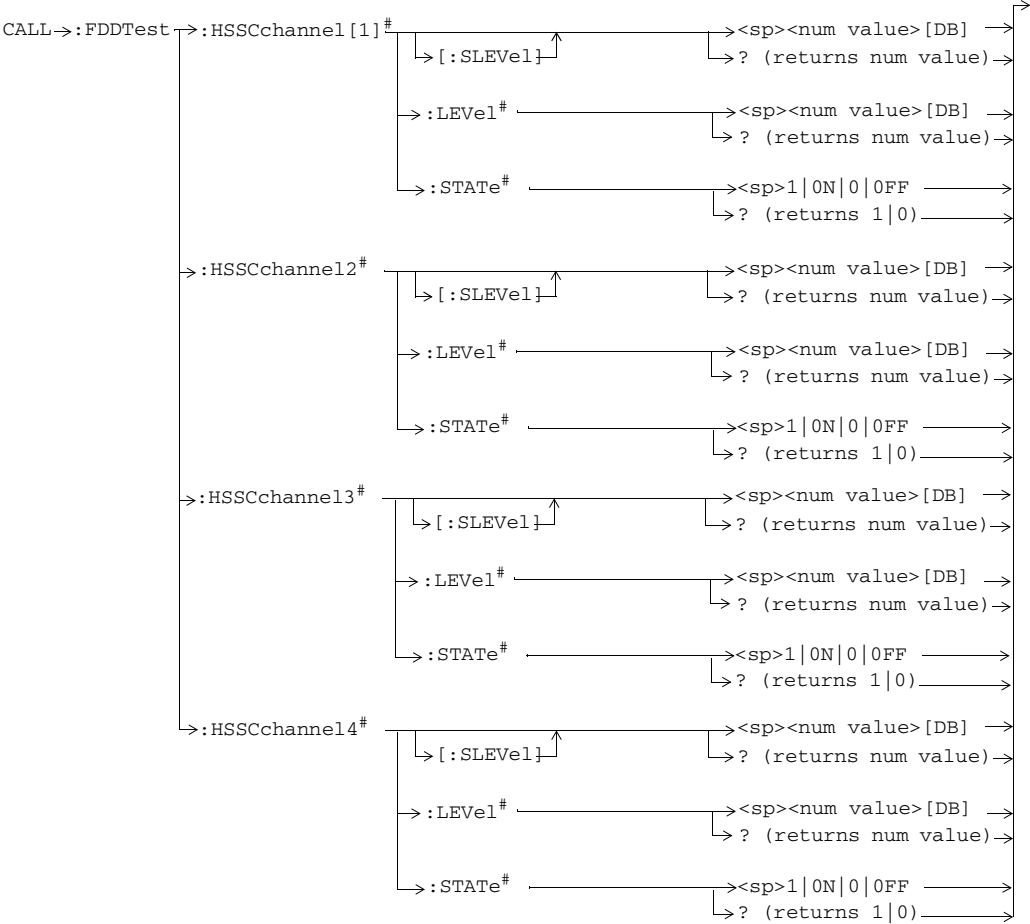


# Only applicable to a feature-licensed test application.

GPIB Syntax for E1963A and E6703C/D/T

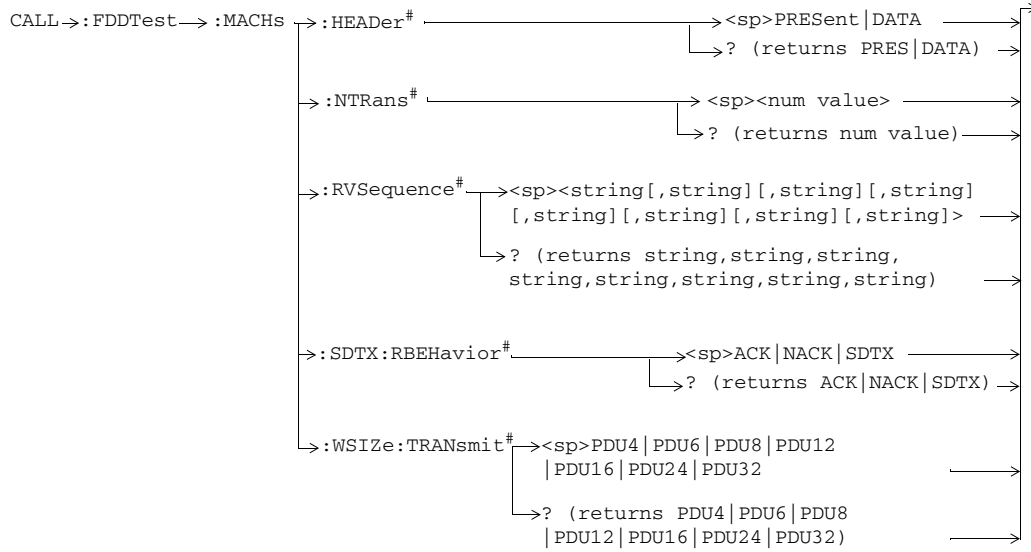


# Only applicable to a feature-licensed test application.



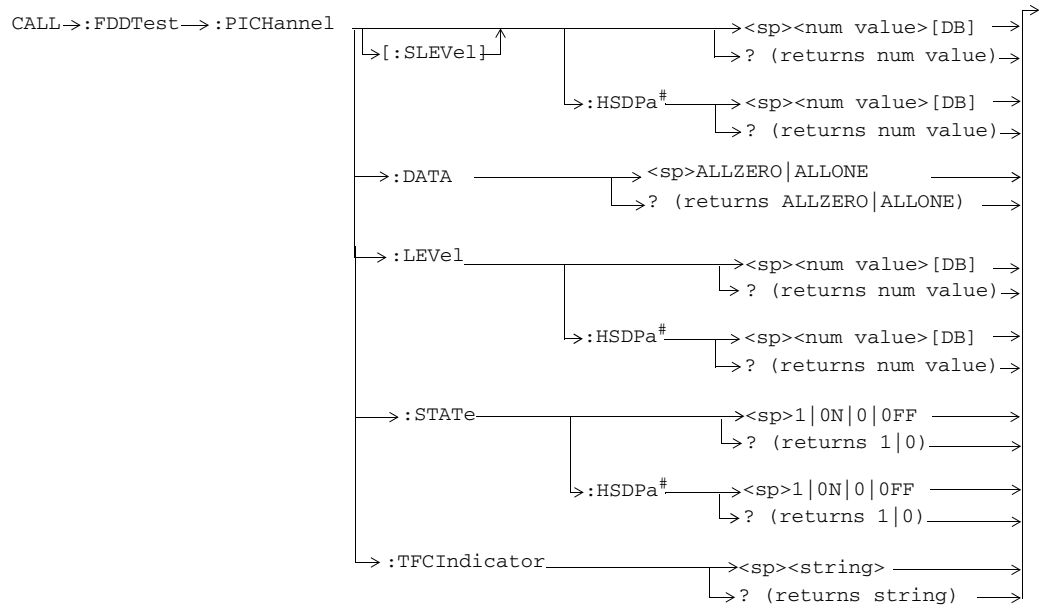
# Only applicable to a feature-licensed test application.

GPIB Syntax for E1963A and E6703C/D/T



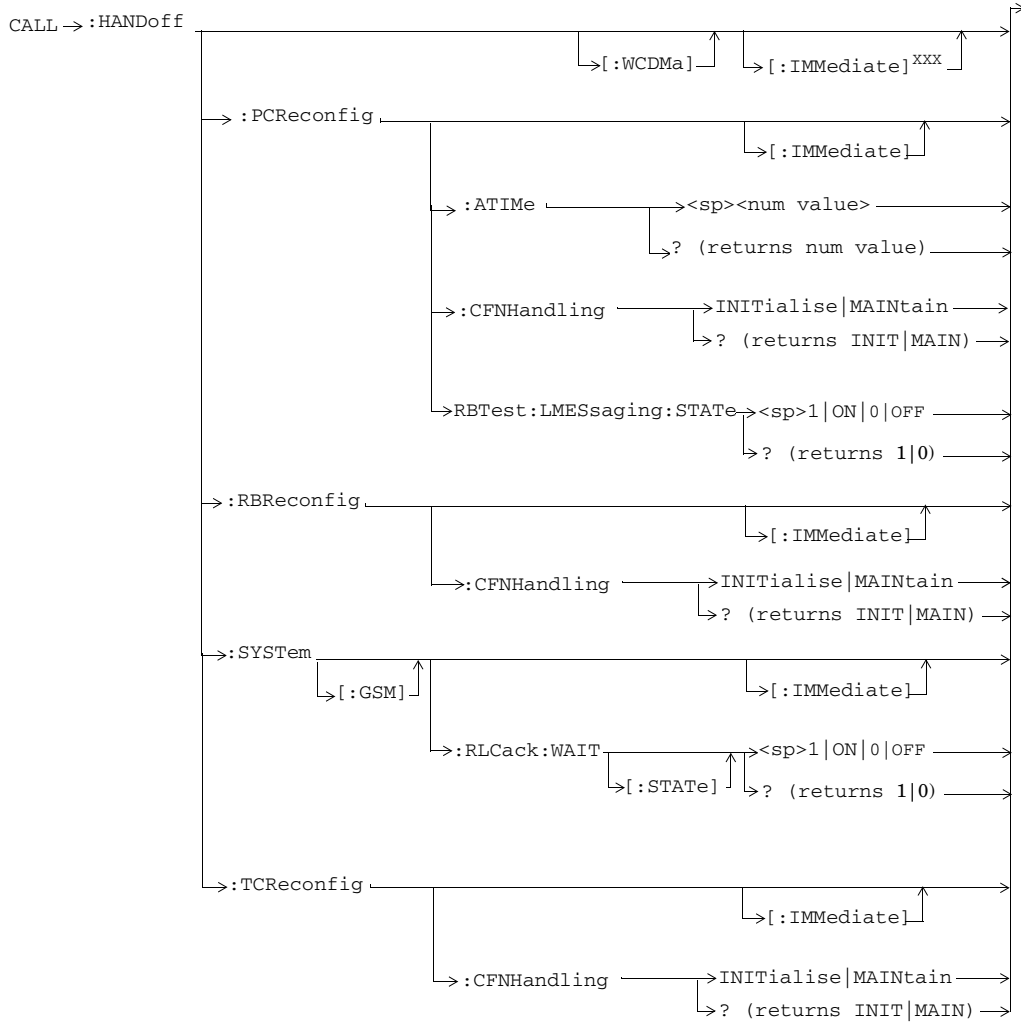
# Only applicable to a feature-licensed test application.





# Only applicable to a feature-licensed test application.

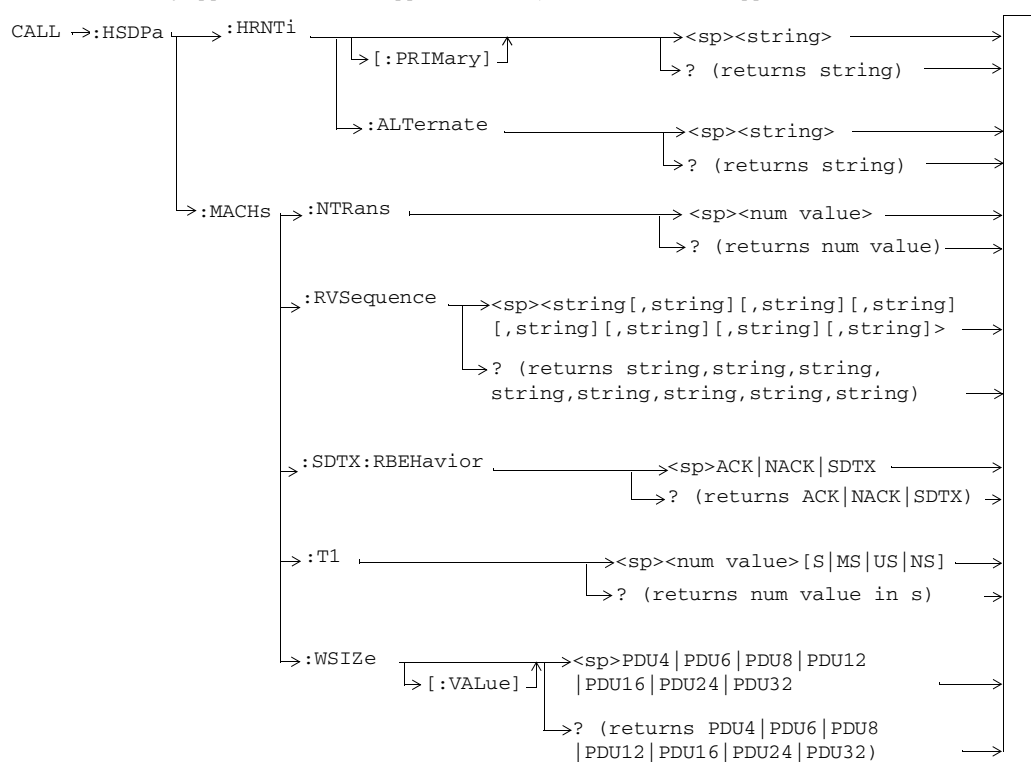
**CALL:HANDoff**



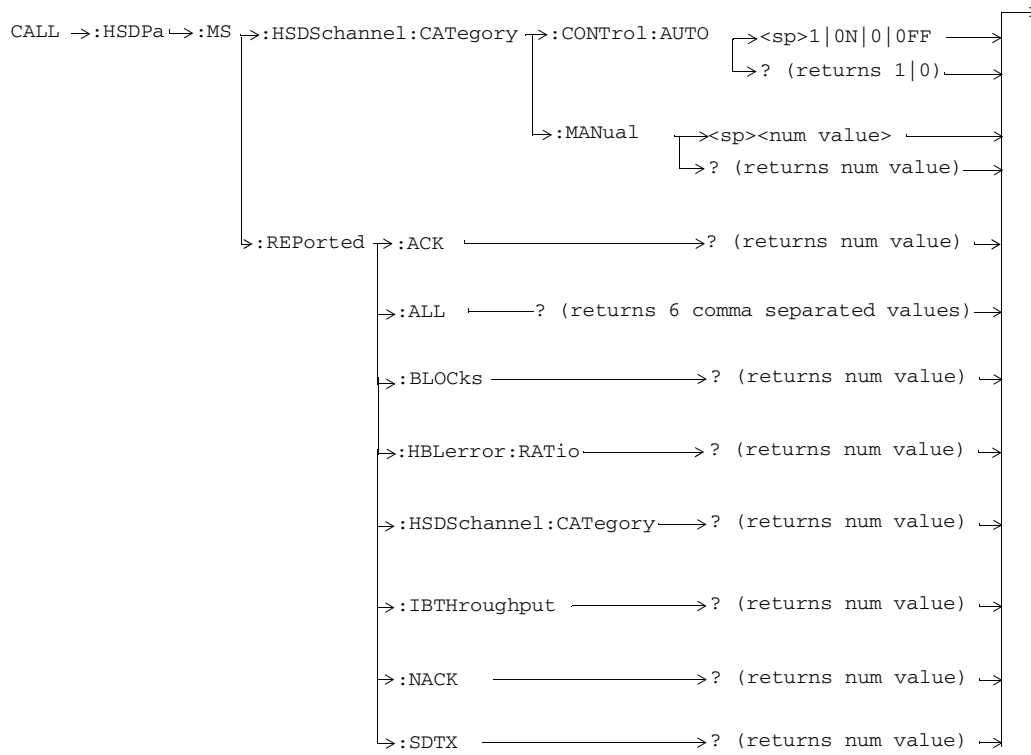
XXX This command is obsolete.

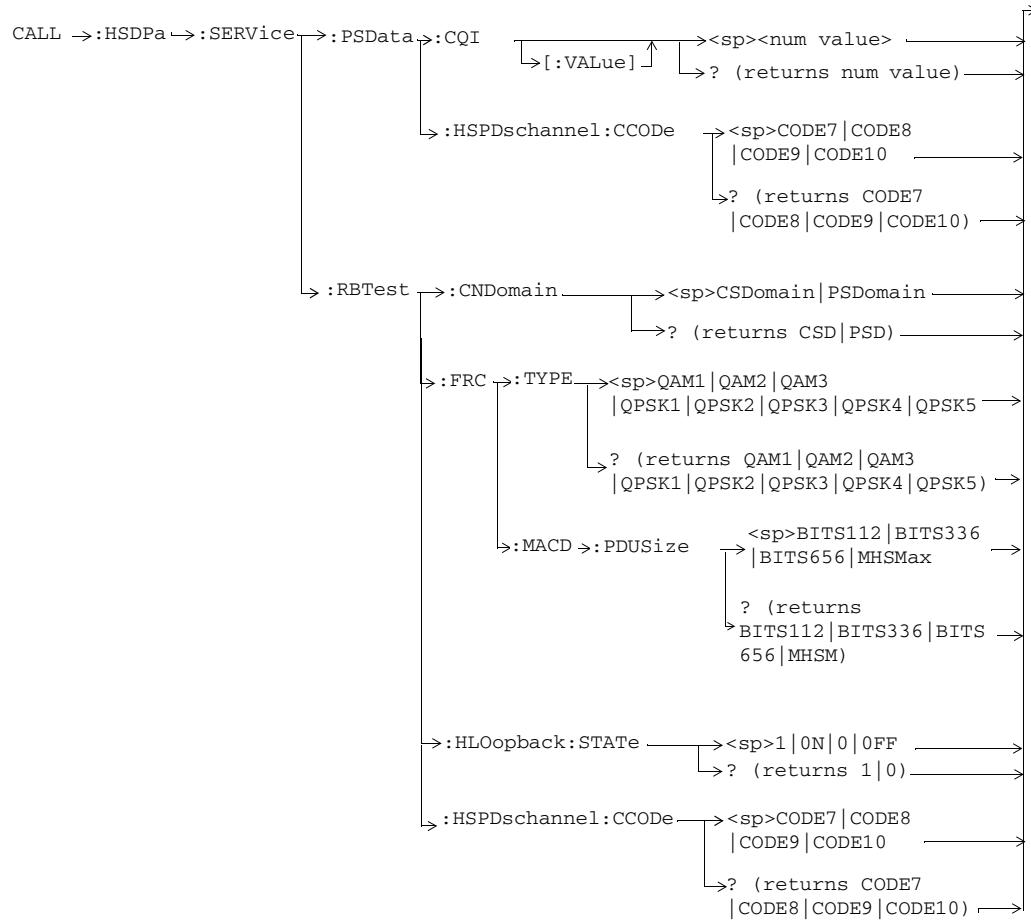
**CALL:HSDPa**

*This section is only applicable to the lab application or a feature-licensed test application.*

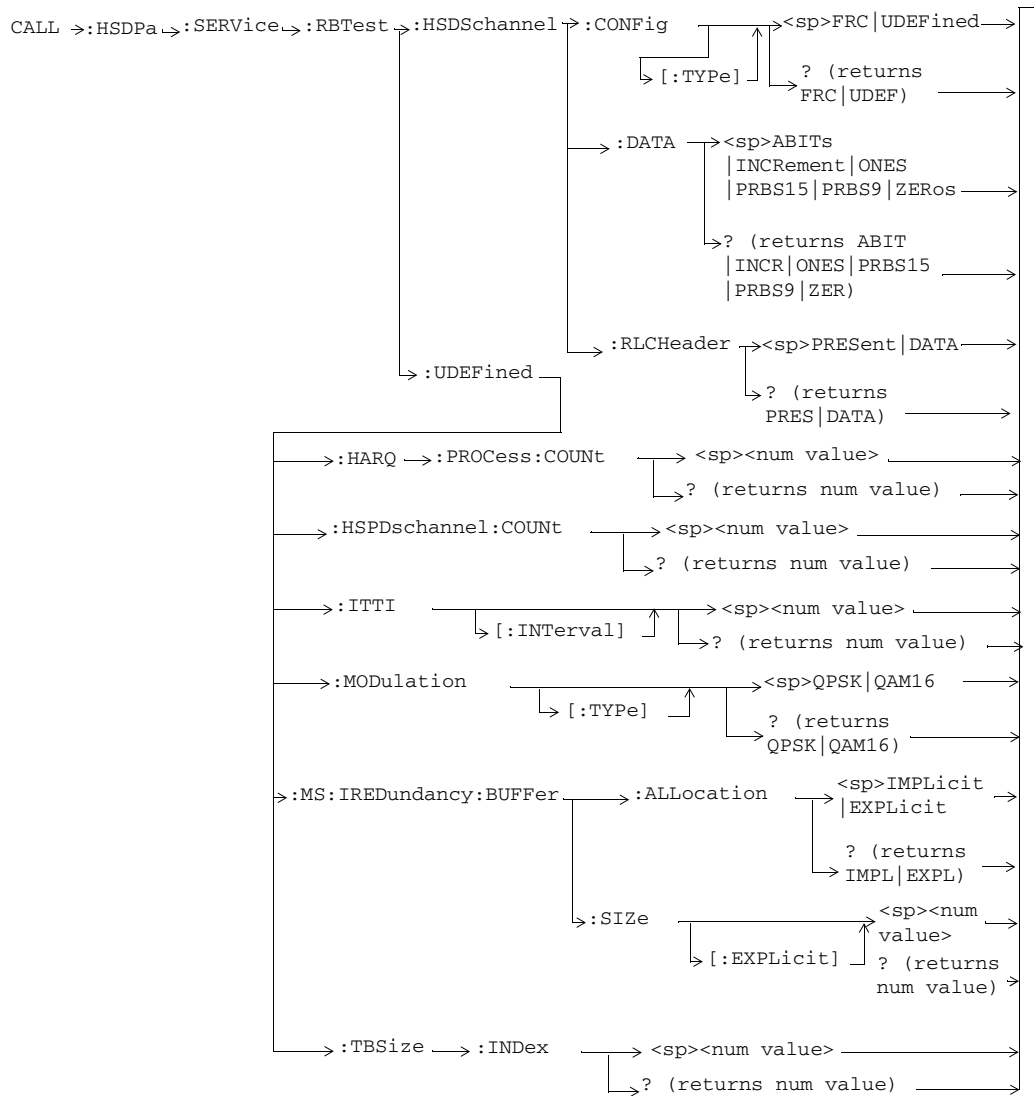


GPIB Syntax for E1963A and E6703C/D/T



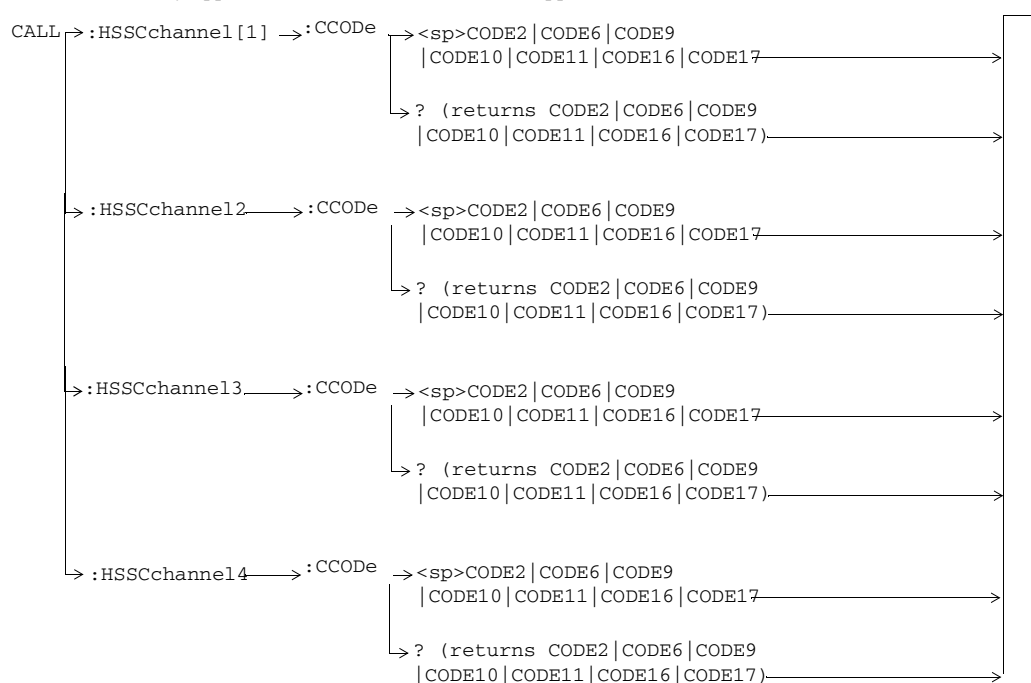


GPiB Syntax for E1963A and E6703C/D/T

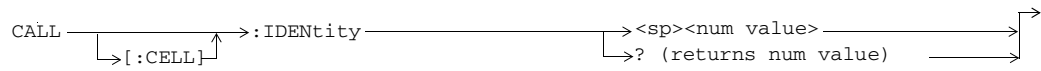


**CALL:HSSCchannel**

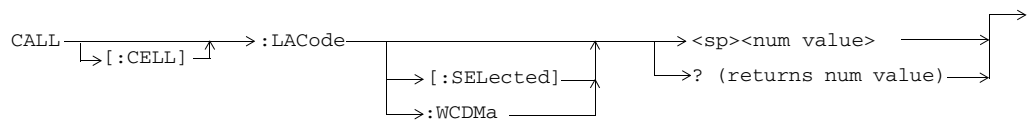
This section is only applicable to a feature-licensed test application.



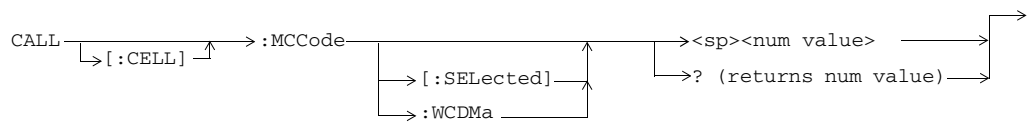
**CALL:IDENtity**



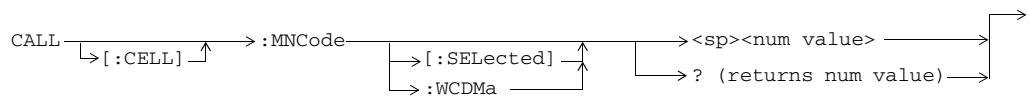
**CALL:LACode**



**CALL:MCCode**



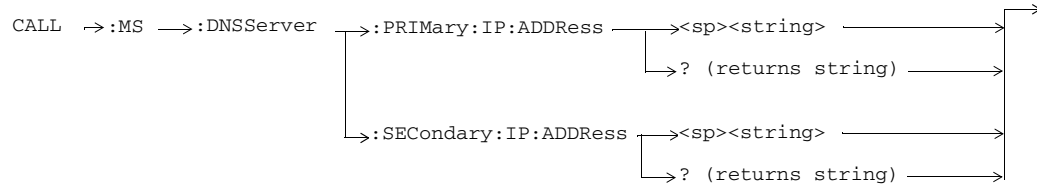
**CALL:MNCCode**



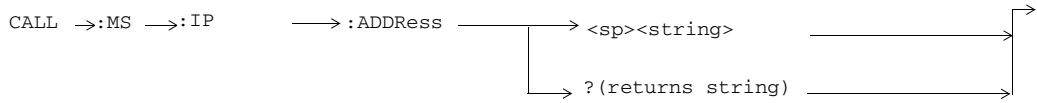


**CALL:MS:DNSServer**

*This section is only applicable to the lab application.*



**CALL:MS:IP:ADDRess**

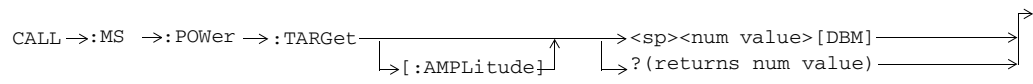


All commands shown in this diagram are only applicable to the lab application.

**CALL:MS:LOOPback**



**CALL:MS:POWer**

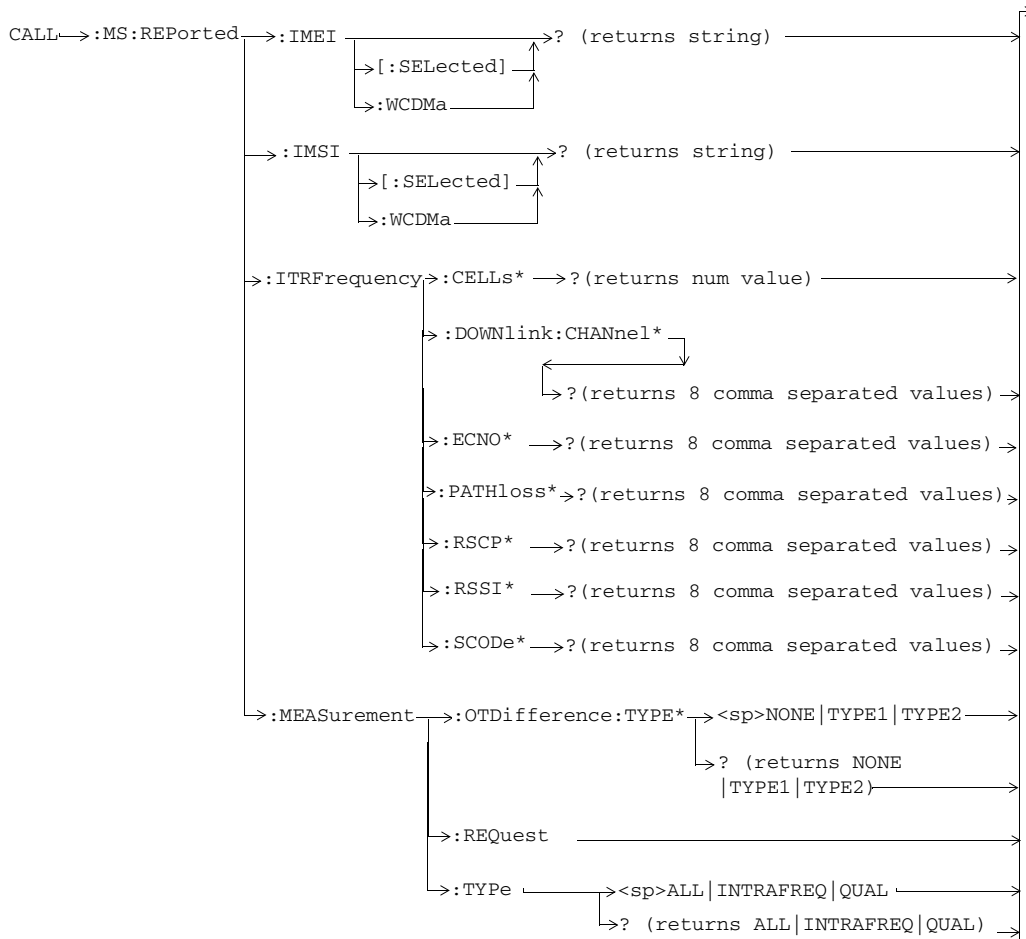


**CALL:MS:REPorted**

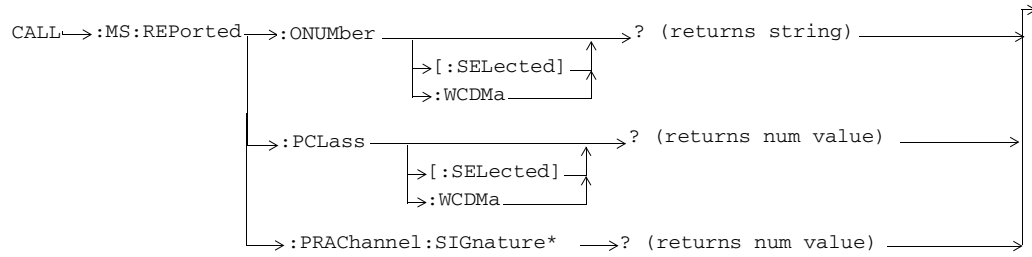


\* This query is only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T

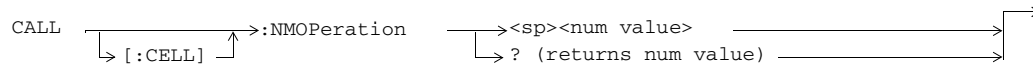


\* This command is only applicable to the lab application.

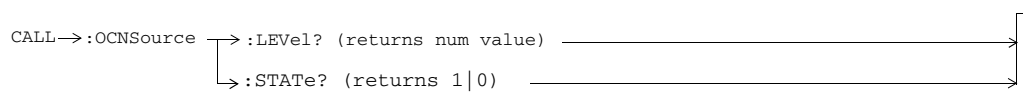


\* This command is only applicable to the lab application.

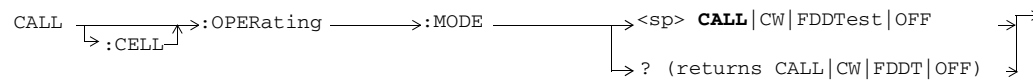
**CALL:NMOPeration**



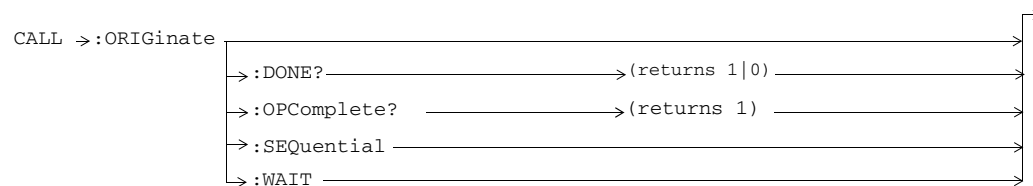
**CALL:OCNSource**



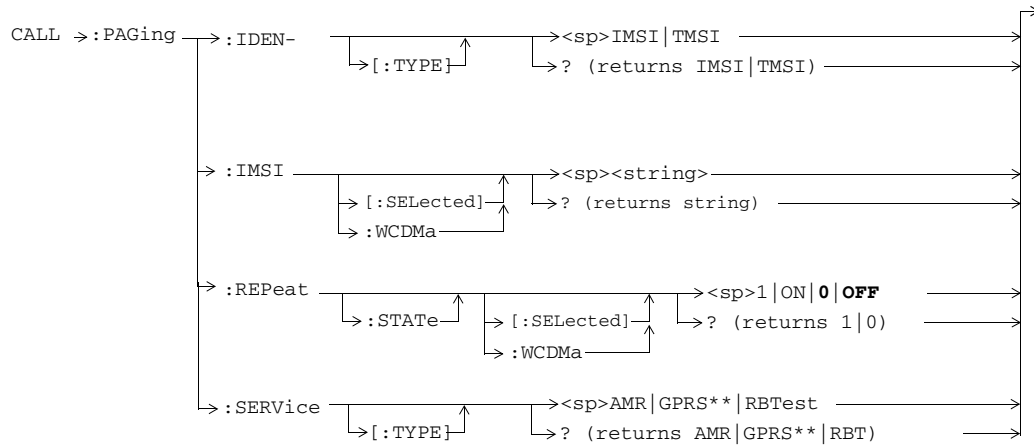
**CALL:OPERating**



**CALL:ORIGinate**

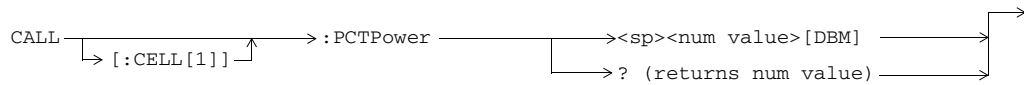


**CALL:PAGing**

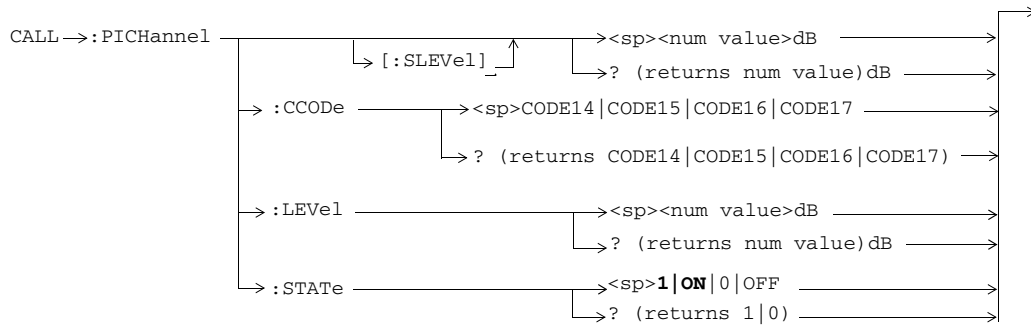


\*\* This setting/query return is only applicable to the lab application.

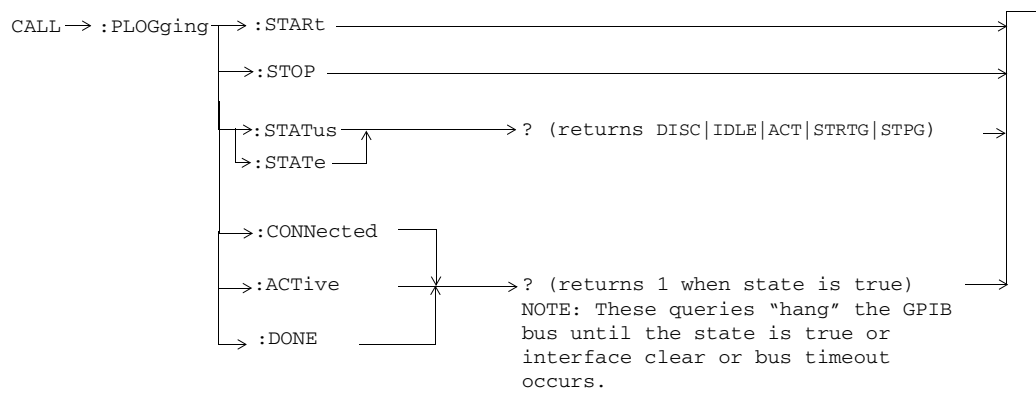
**CALL:PCTPower**



**CALL:PICHannel**



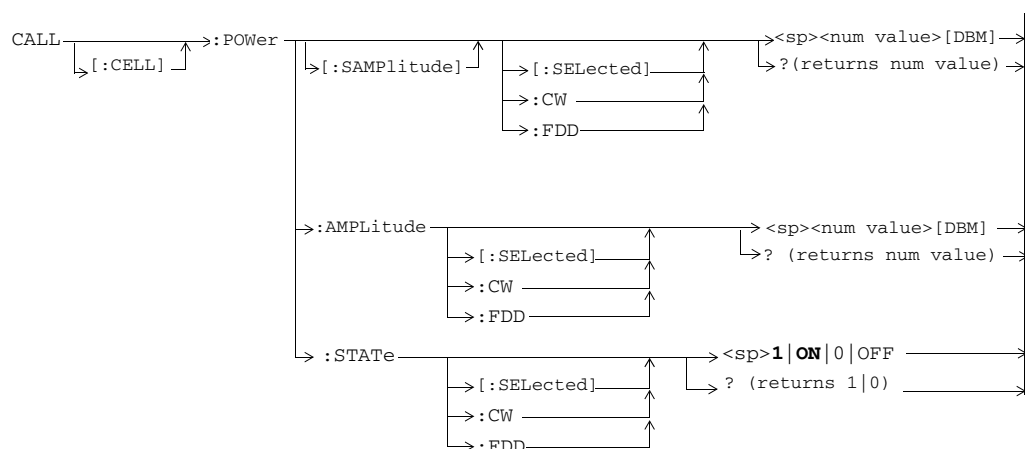
**CALL:PLOGging**



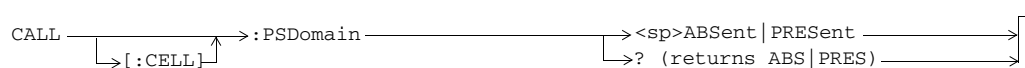
All commands shown in this diagram are only applicable to the lab application.



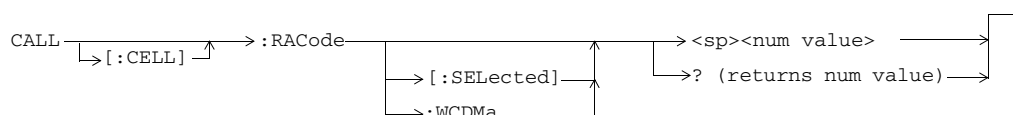
**CALL:POWer**



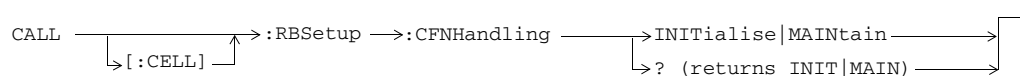
**CALL:PSDomain**



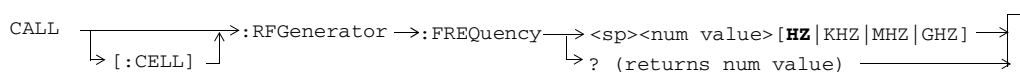
**CALL:RACode**



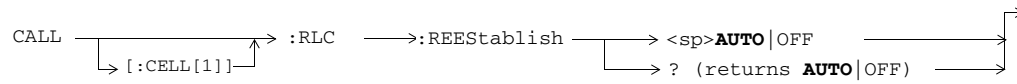
**CALL:RBSetup**



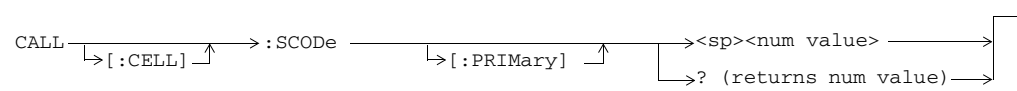
**CALL:RFGenerator**



**CALL:RLC**



**CALL:SCODE**



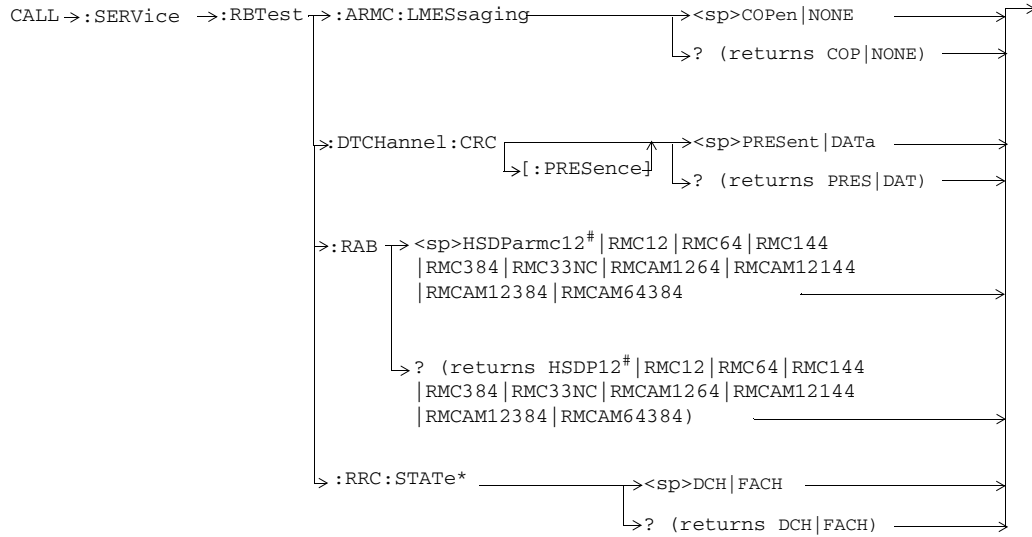


**CALL:SERvice**



\* Only applicable to the lab application.

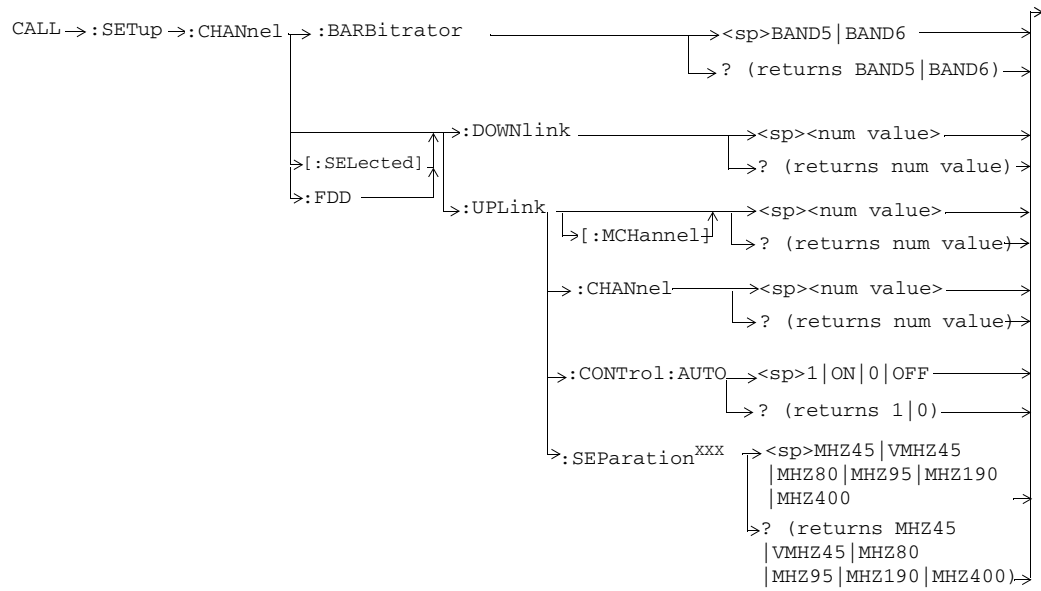
\*\* Only applicable to the E6703D.



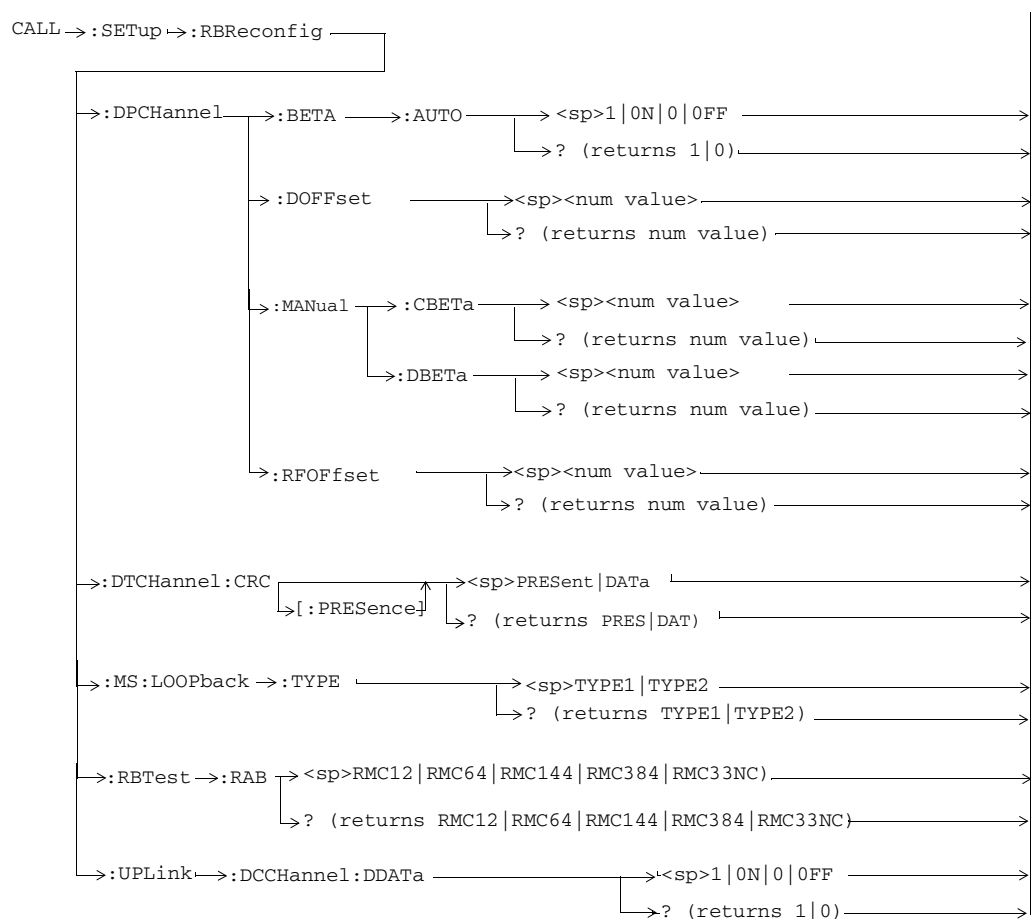
\* Only applicable to the lab application.

# Only applicable to the lab application or feature-licensed test application.

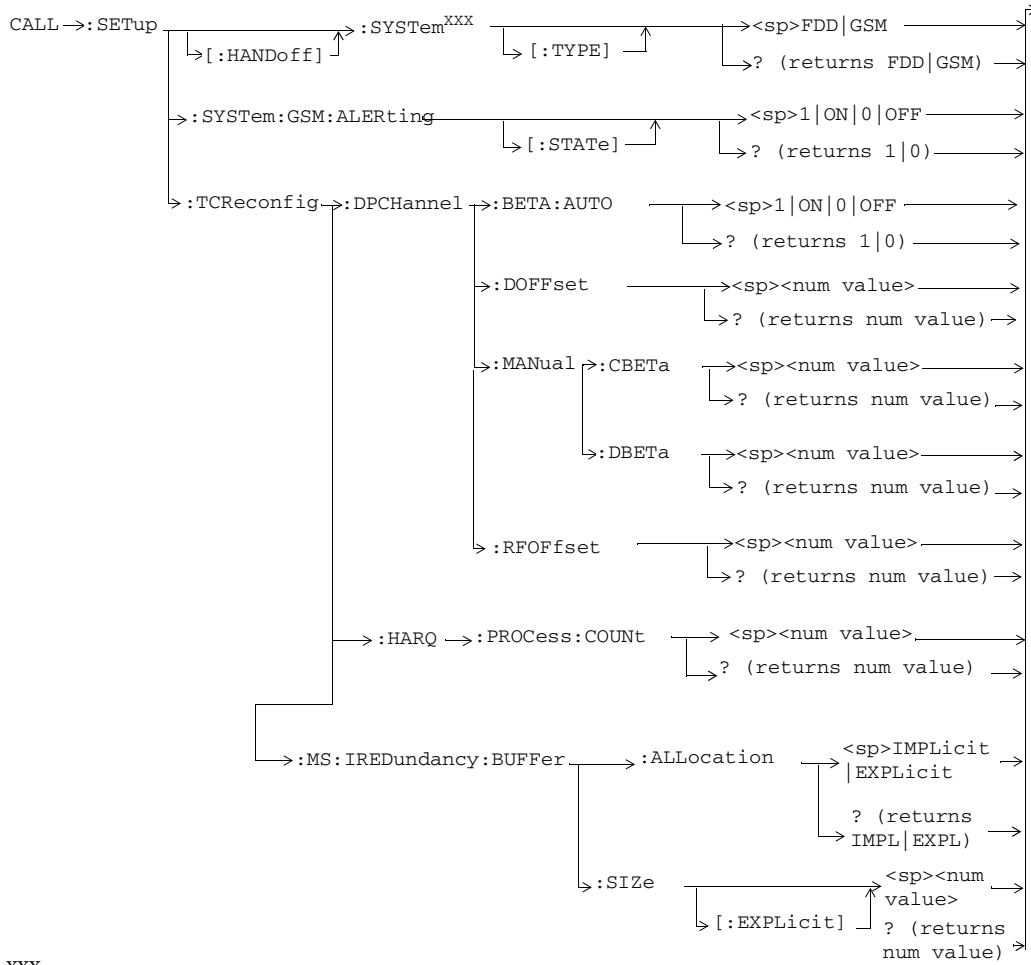
**CALL:SETup**



<sup>xxx</sup> This command is obsolete.

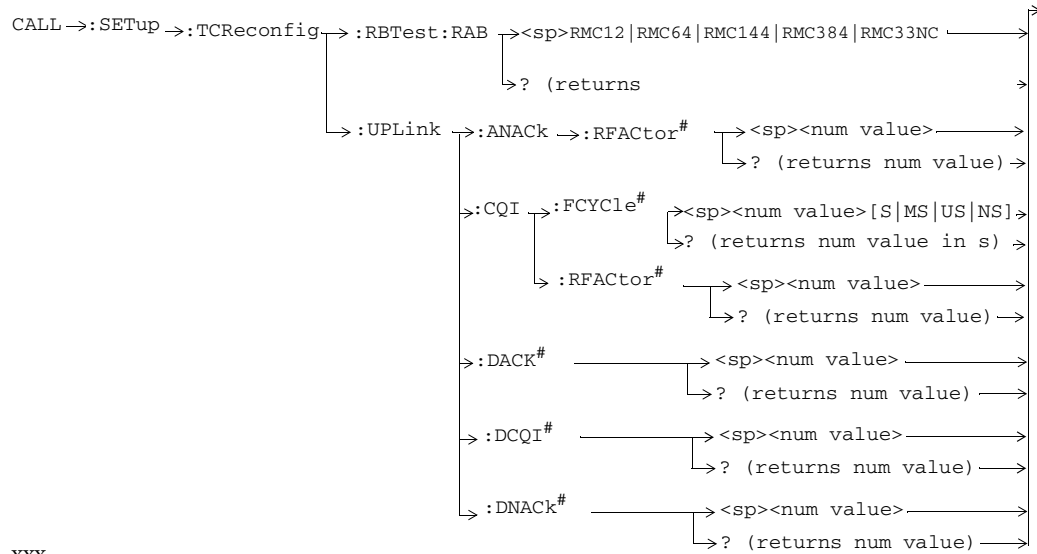


GPiB Syntax for E1963A and E6703C/D/T



<sup>xxx</sup> This command is obsolete.

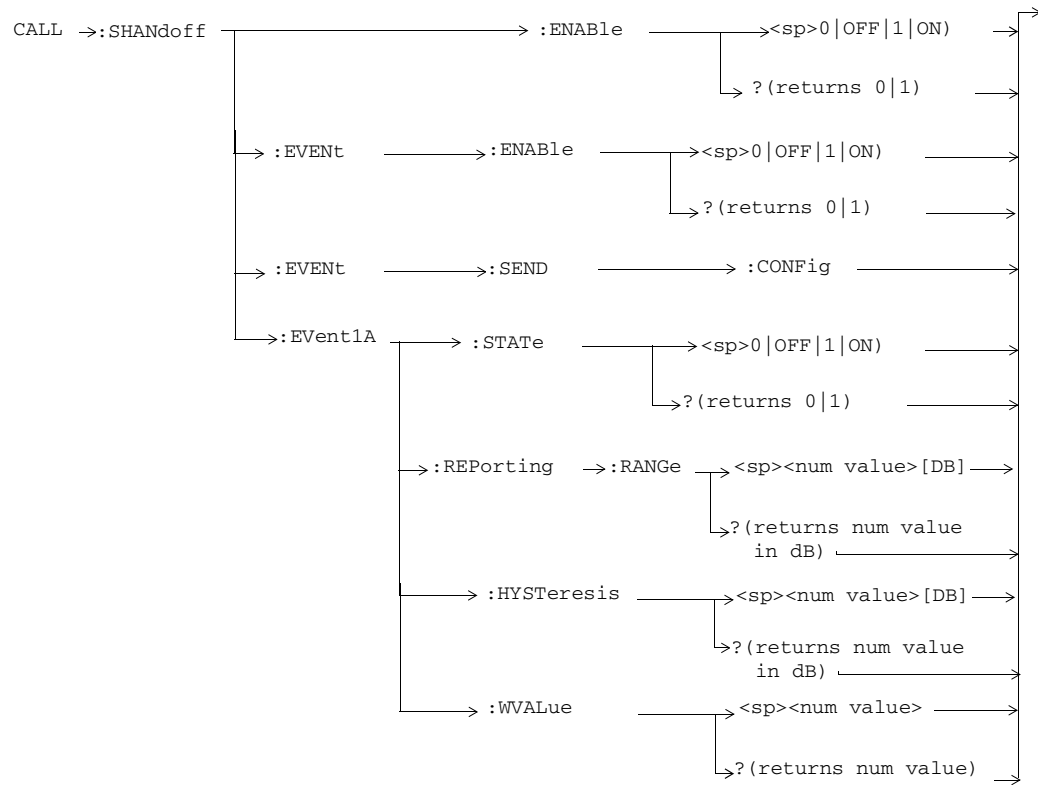




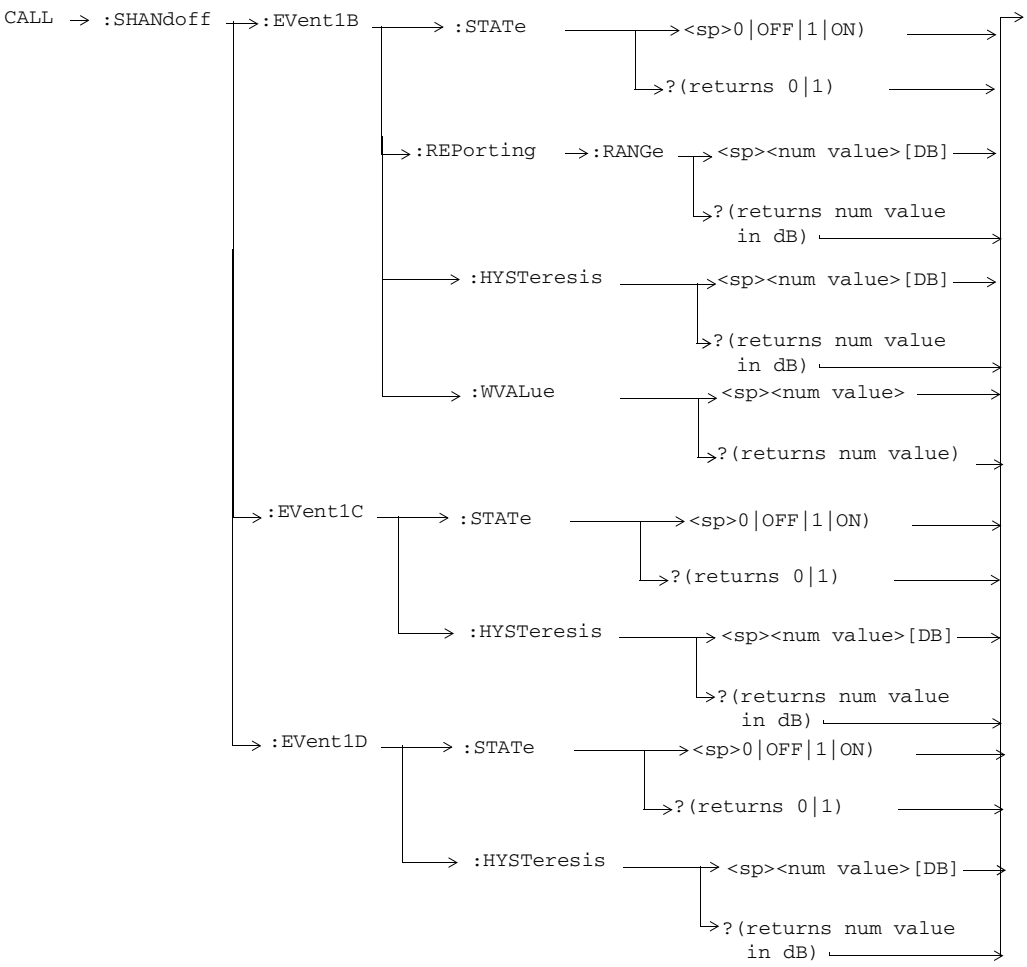
XXX This command is obsolete.

# Only applicable to the lab application or feature-licensed test application

**CALL:SHANdoff**

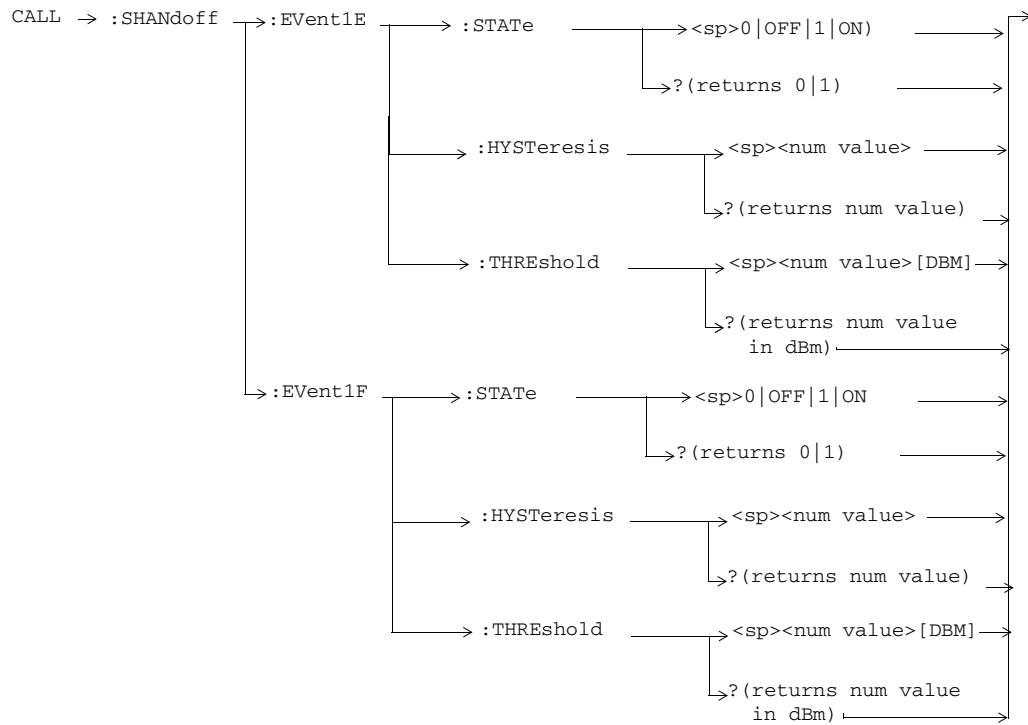


All commands shown in this diagram are only applicable to the lab application.



All commands shown in this diagram are only applicable to the lab application.

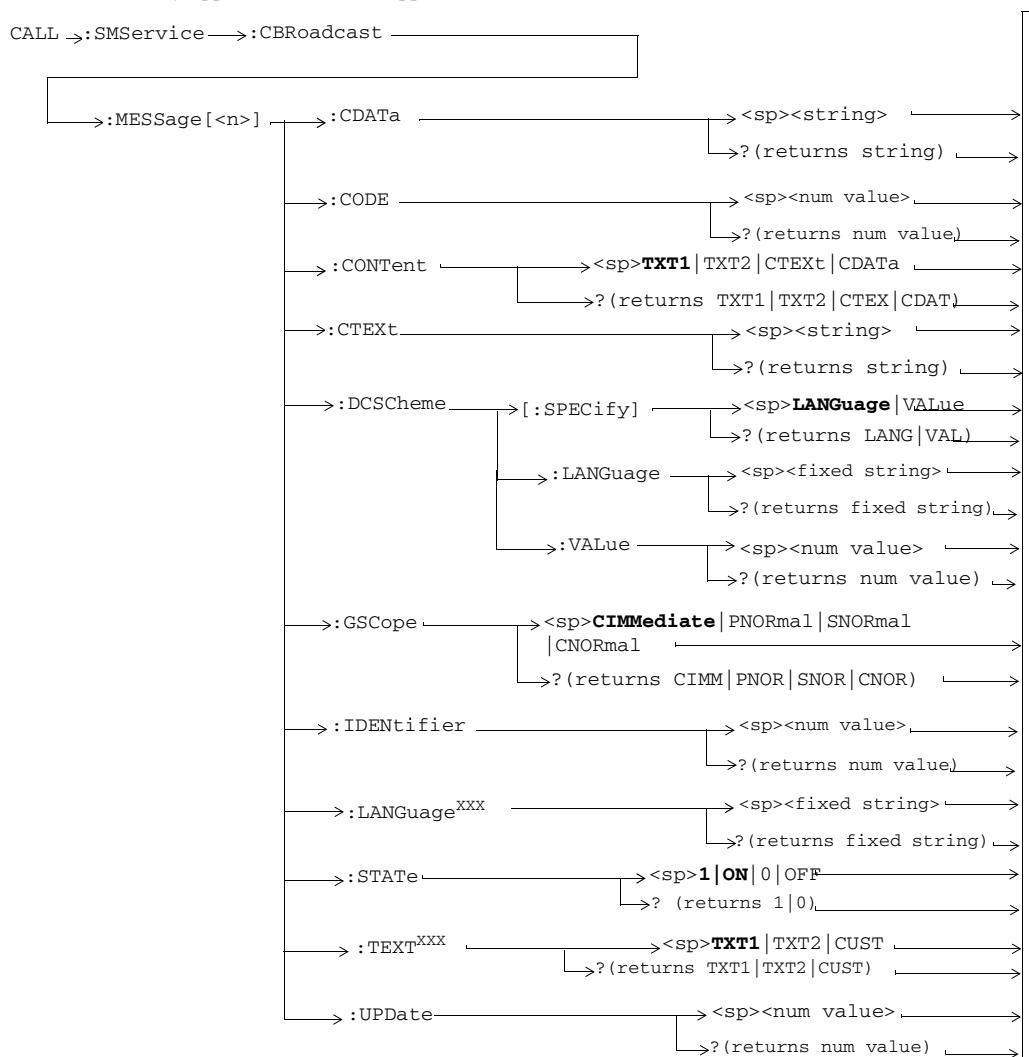
GPIB Syntax for E1963A and E6703C/D/T



All commands shown in this diagram are only applicable to the lab application.

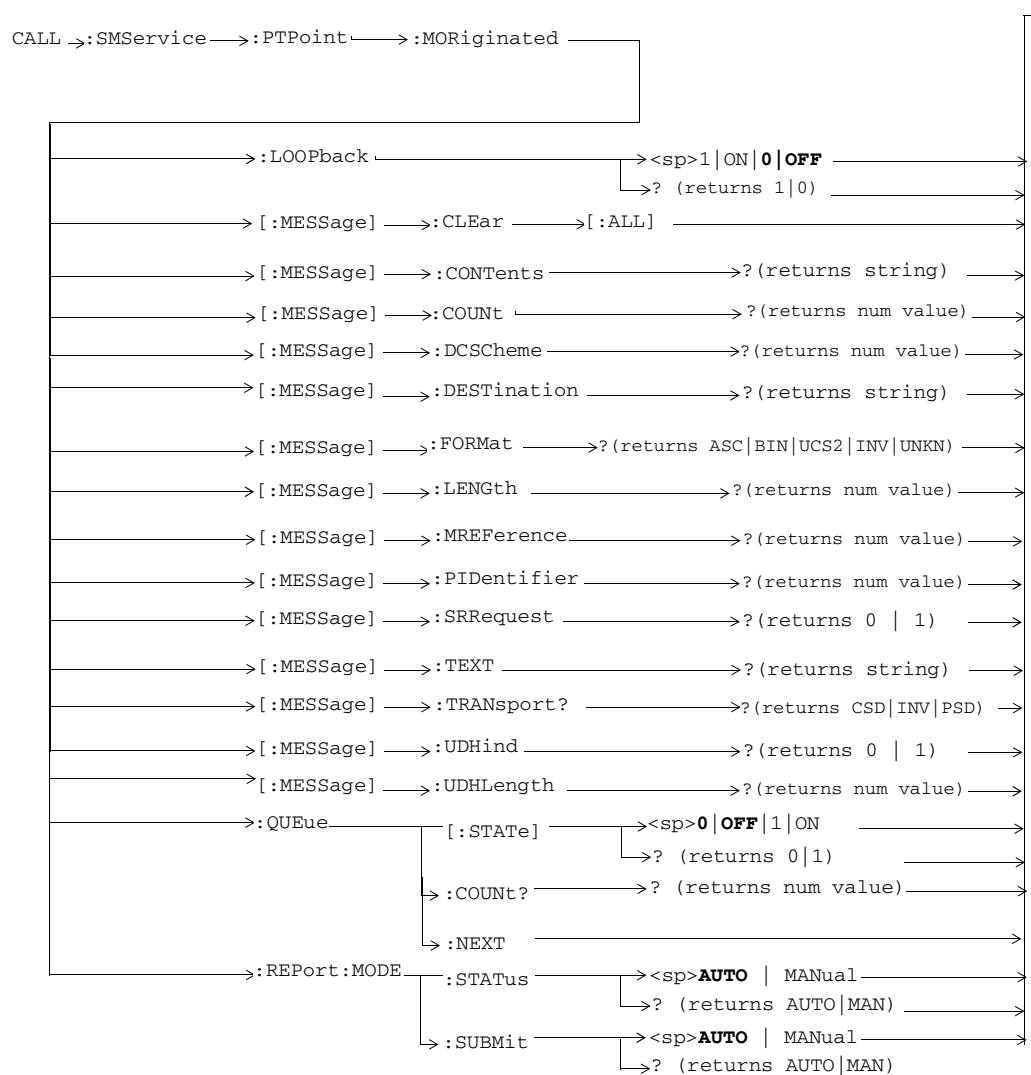
**CALL:SMSERVICE**

This section is only applicable to the lab application.

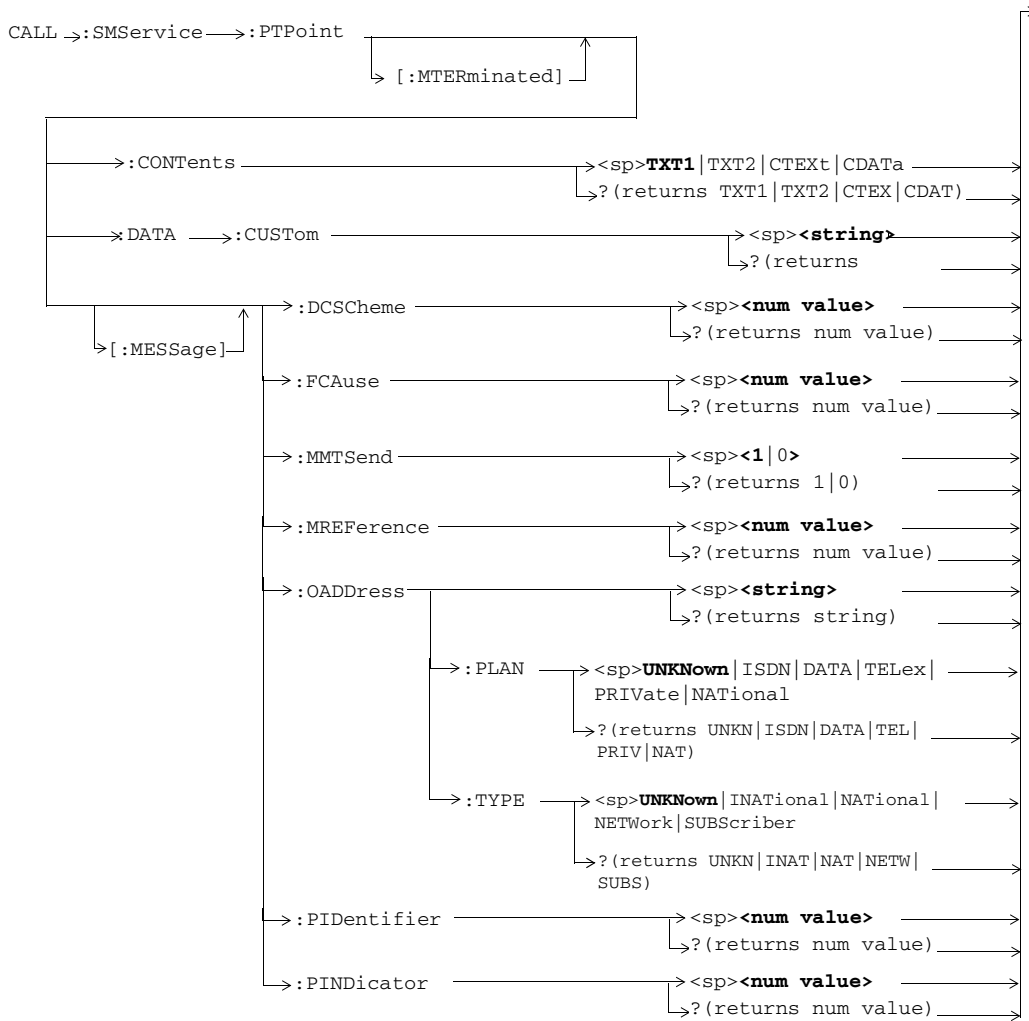


<sup>xxx</sup>These commands are obsolete.

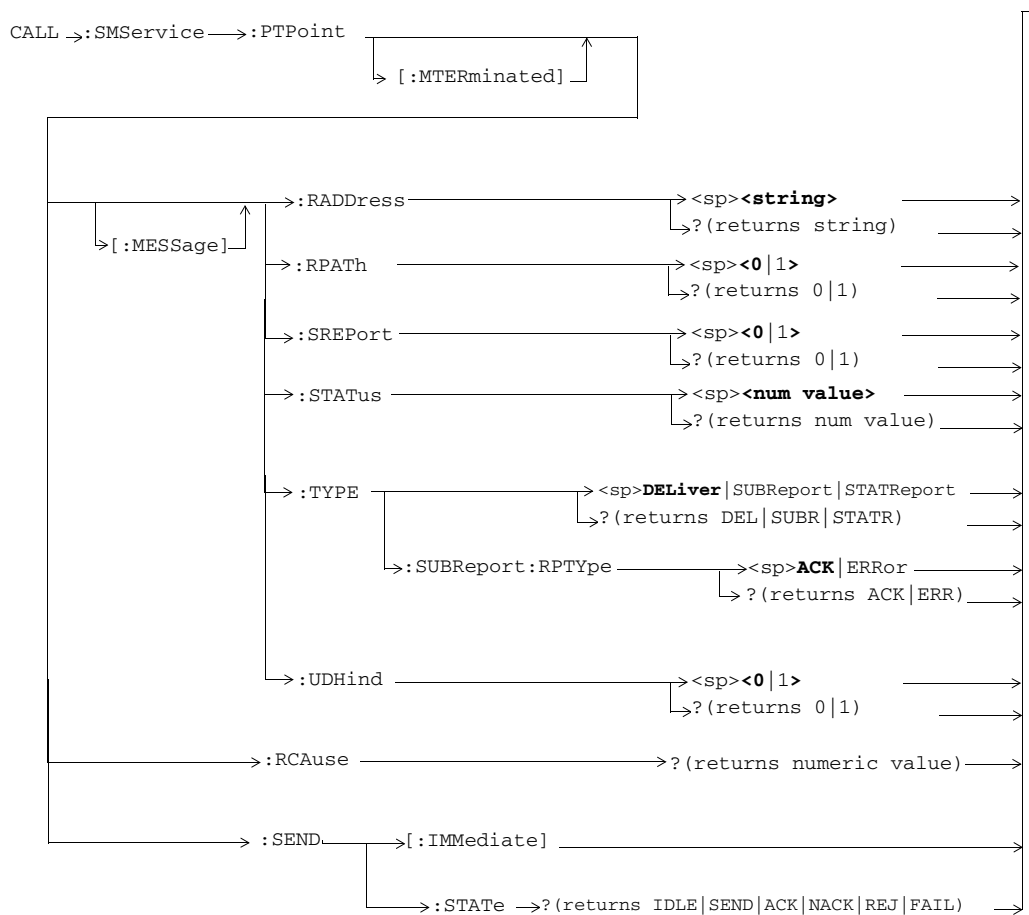




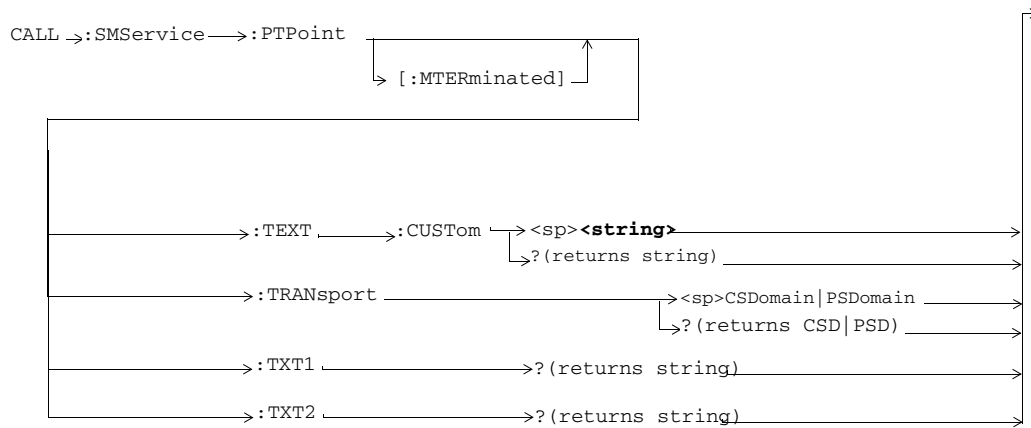
GPIB Syntax for E1963A and E6703C/D/T



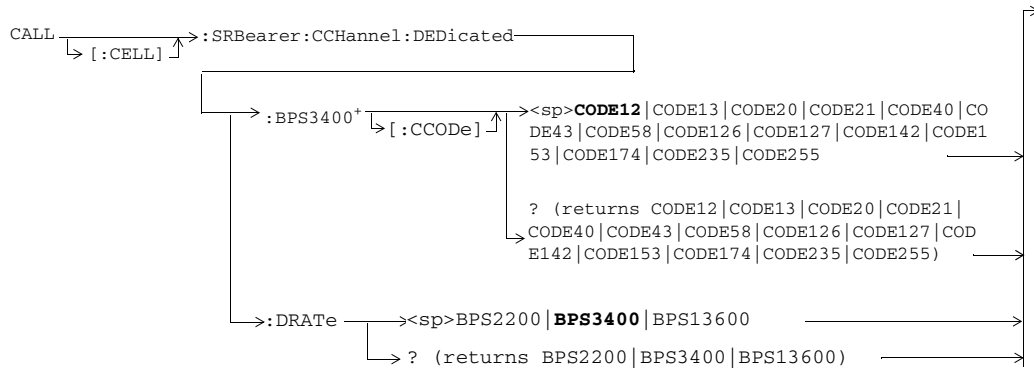




GPIB Syntax for E1963A and E6703C/D/T

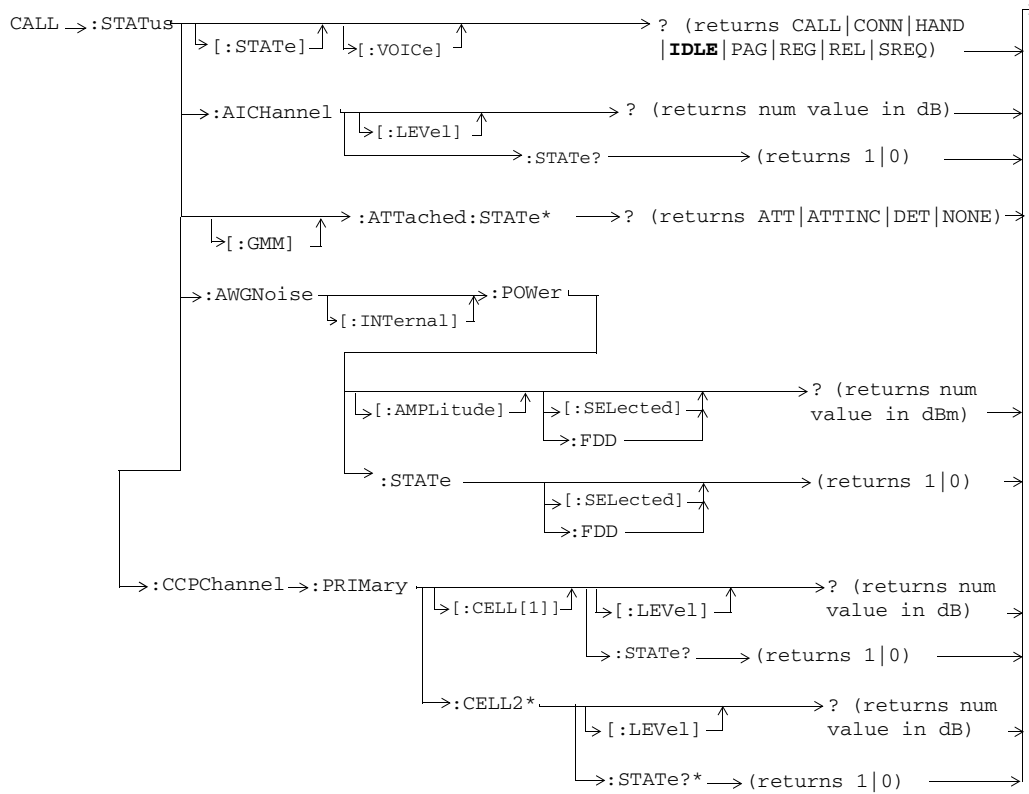


**CALL:SRBearer**



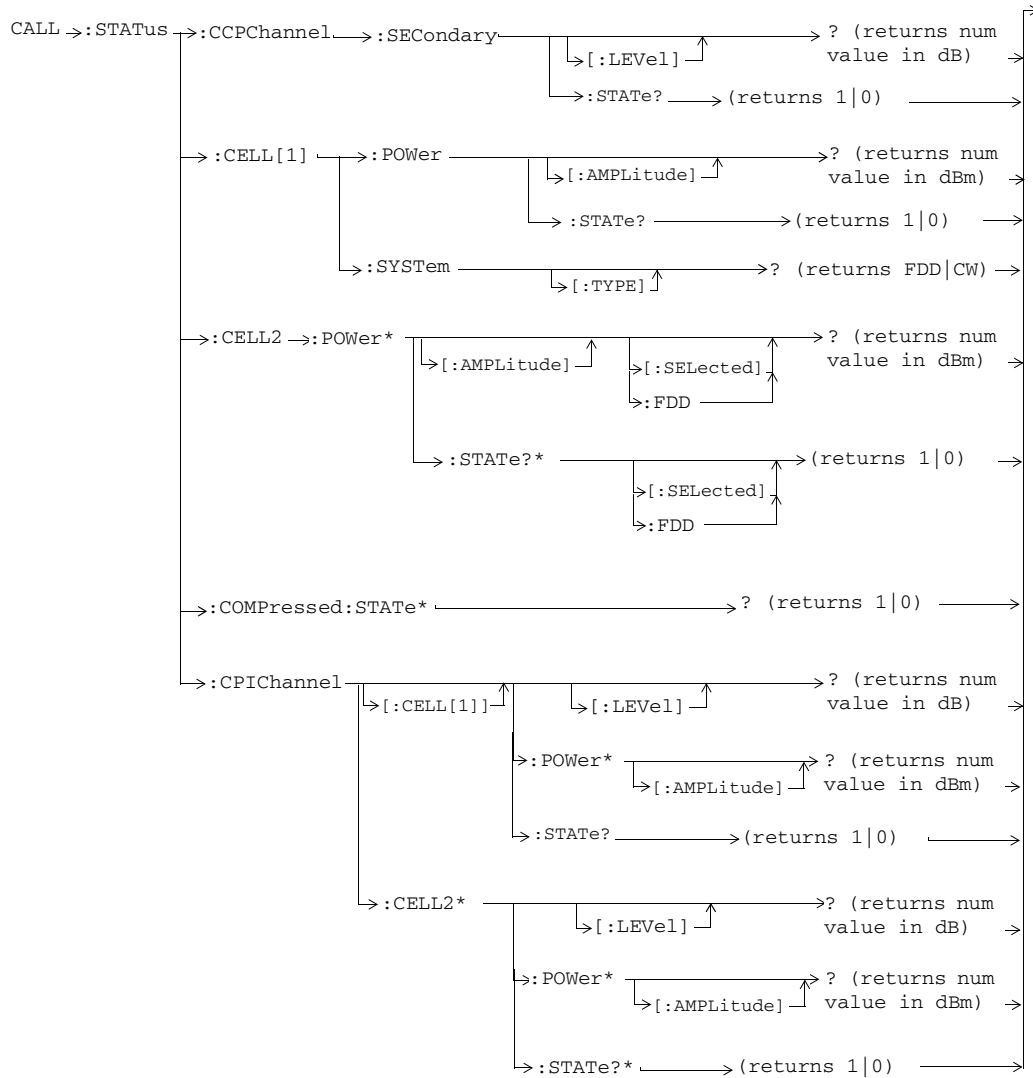
+ This command is only applicable to the test application.

**CALL:STATus**

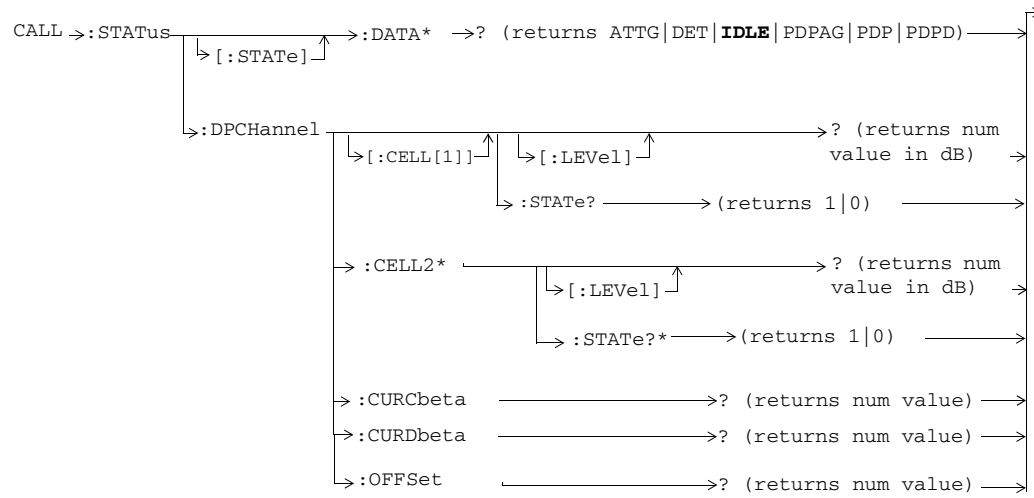


\* Only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T

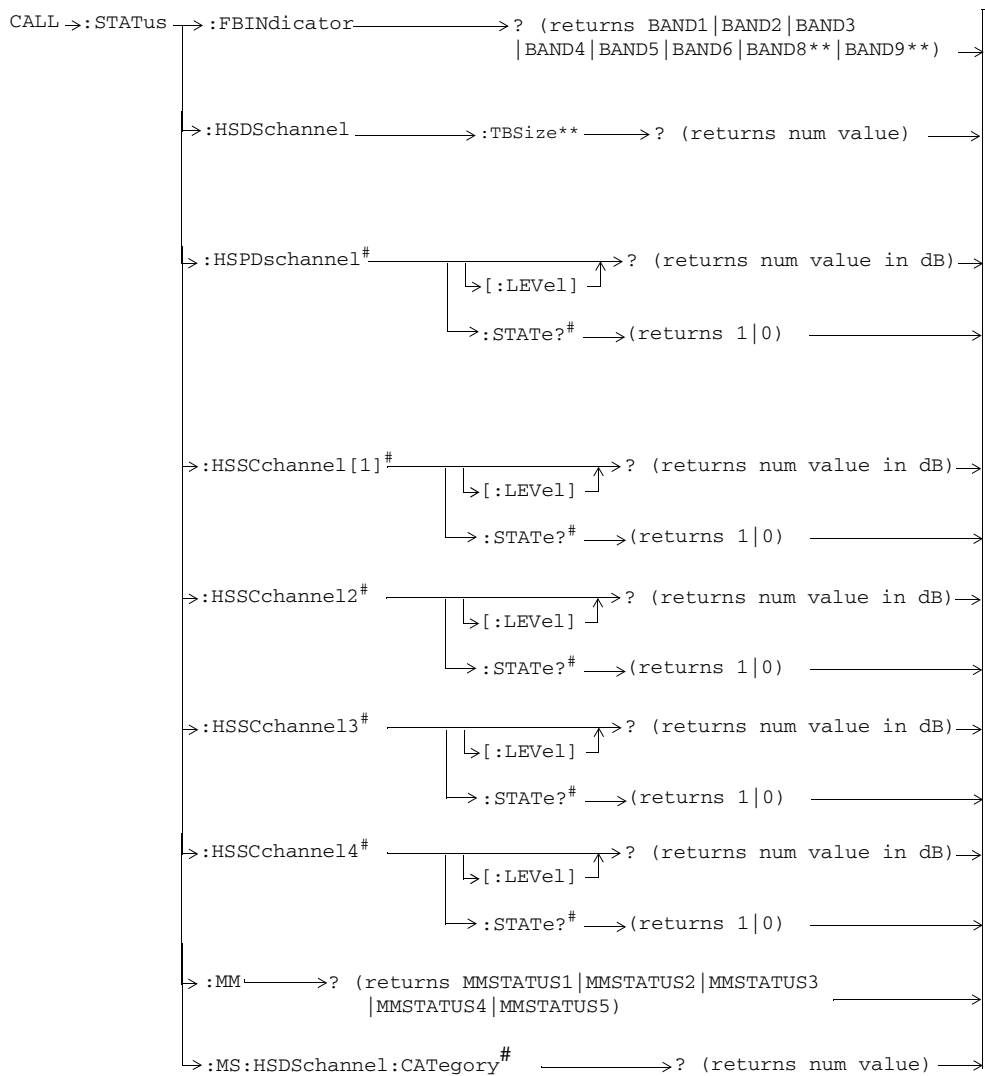


\* Only applicable to the lab application.

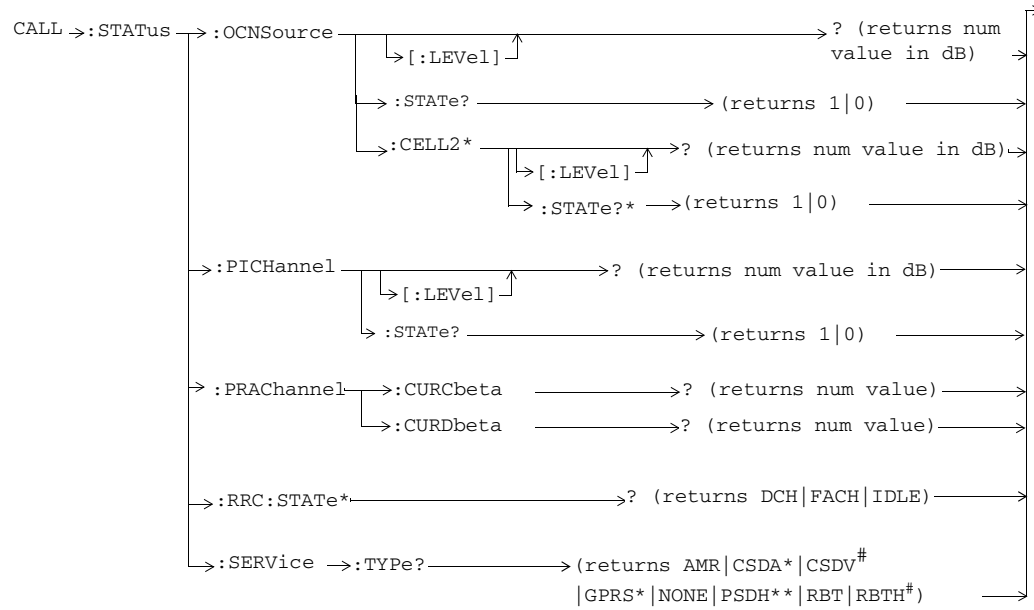


\* Only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T



# Only applicable to the lab application or feature-licensed test application.

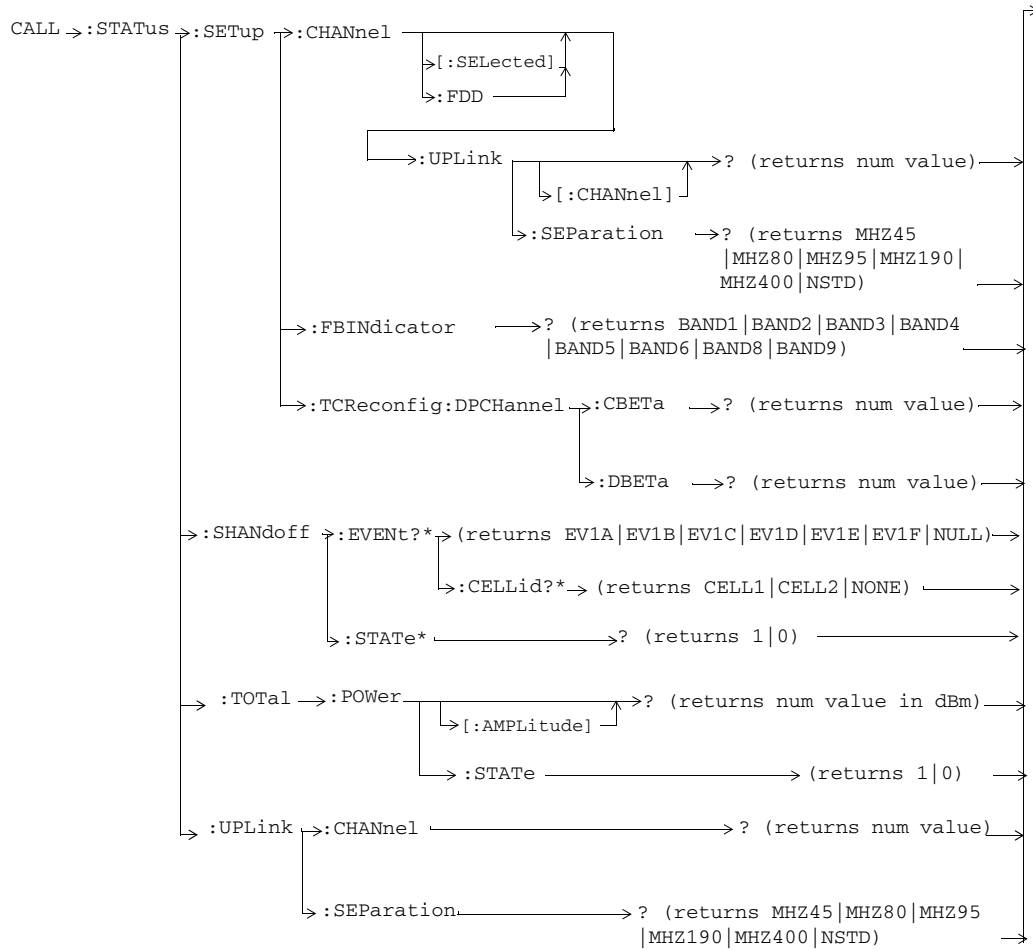


\* Only applicable to the lab application.

\*\* Only applicable to the E6703D.

# Only applicable to the lab application or feature-licensed test application.

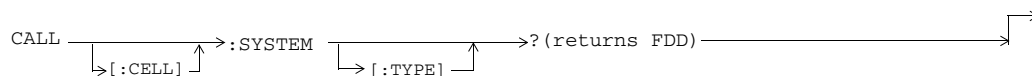
GPIO Syntax for E1963A and E6703C/D/T



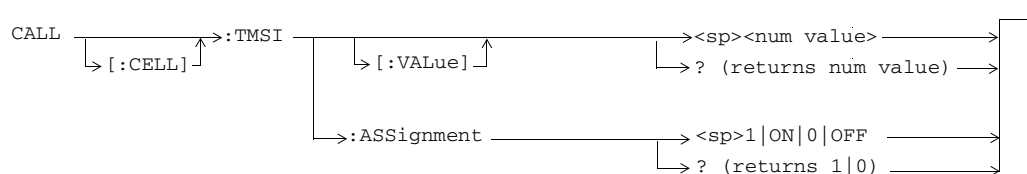
\* Only applicable to the lab application.



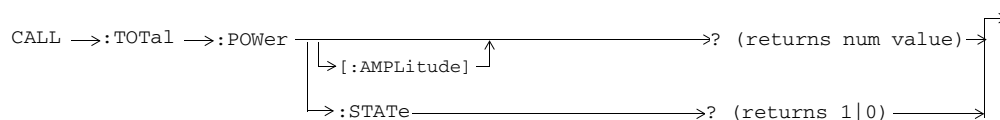
**CALL:SYSTem**



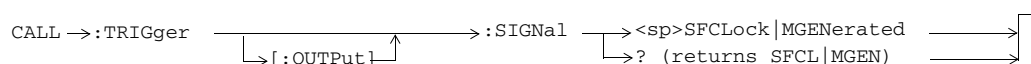
**CALL:TMSI**



**CALL:TOTal:POWer**



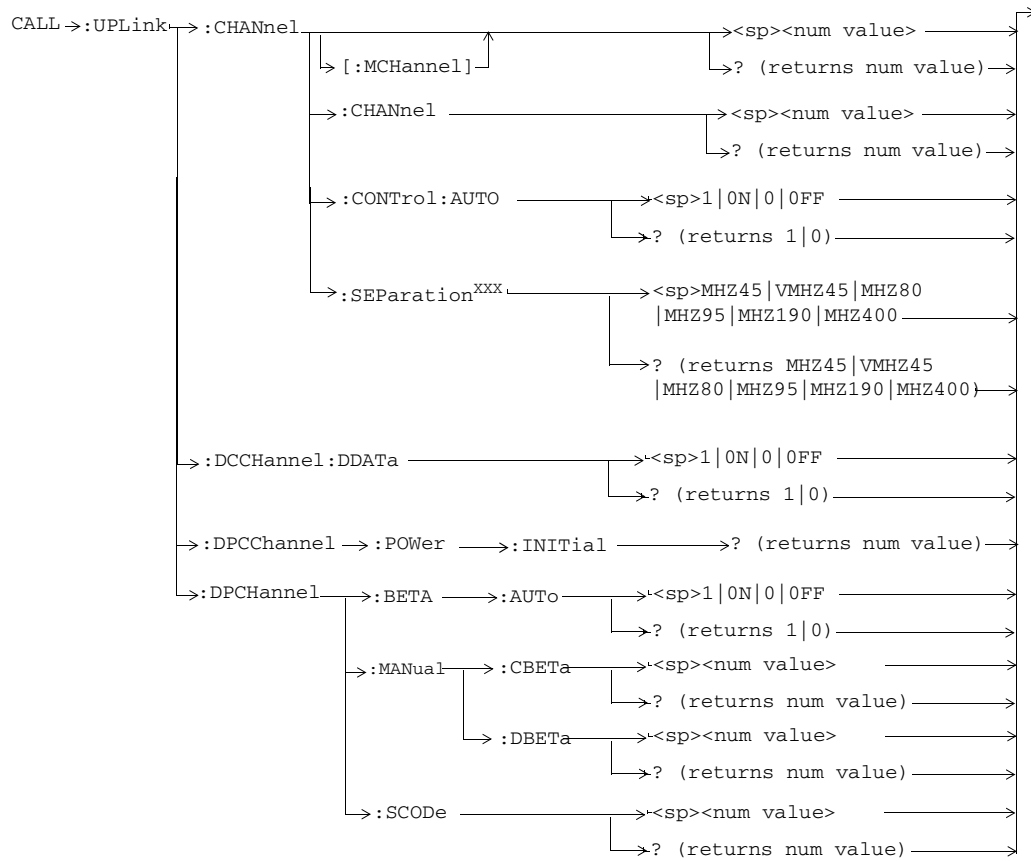
**CALL:TRIGger**



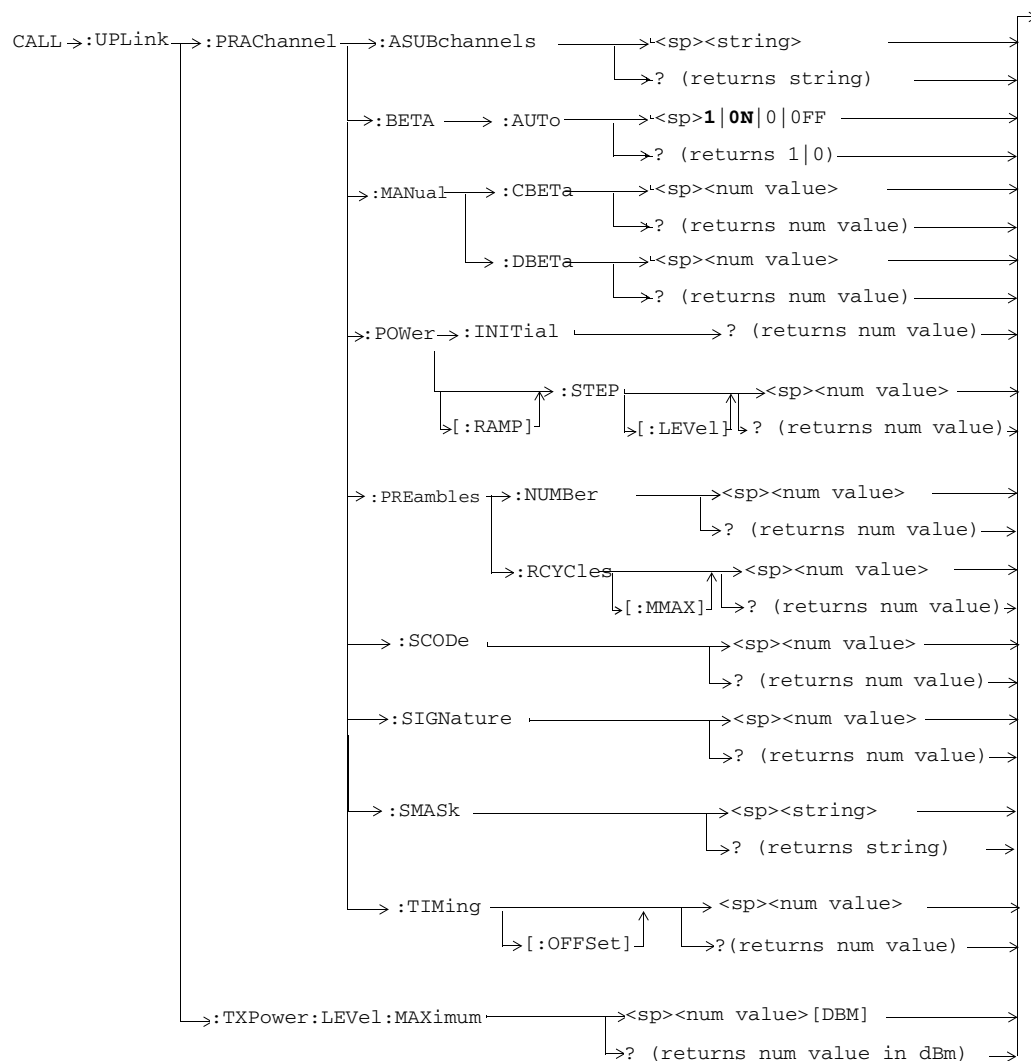
**CALL:UINTerferenc**



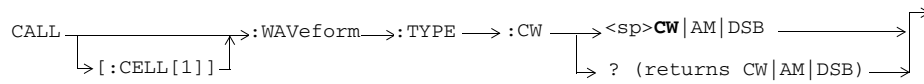
**CALL:UPLink**



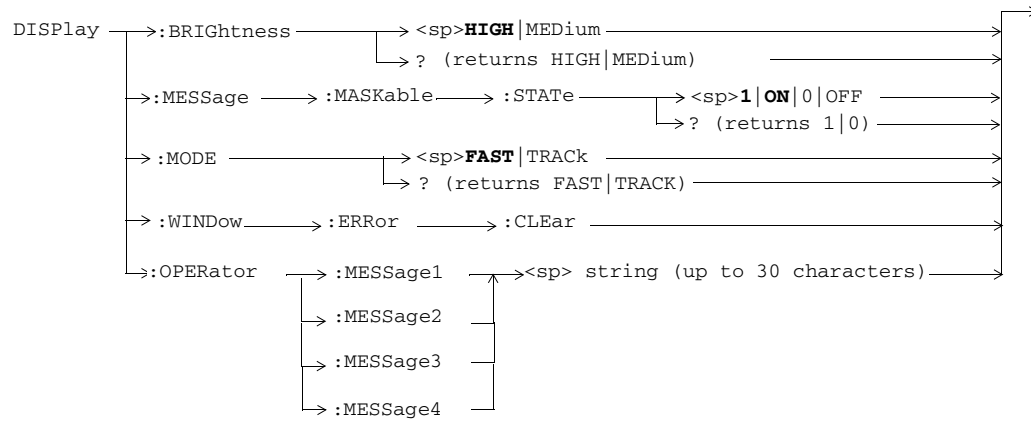
<sup>xxx</sup> This command is obsolete.



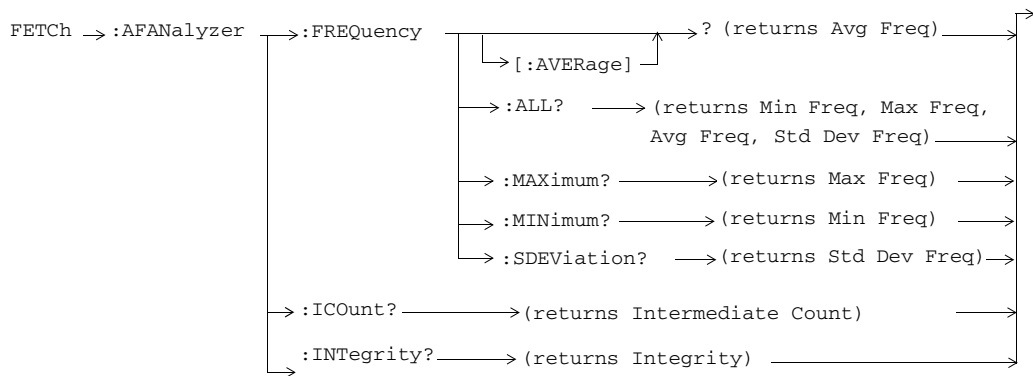
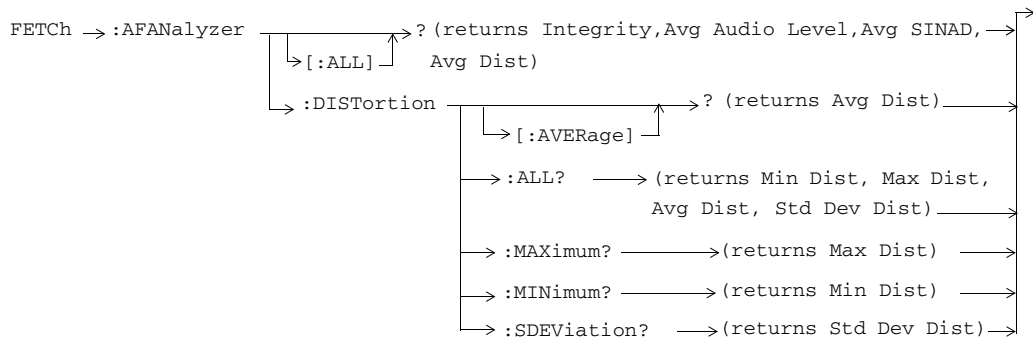
**CALL:WAVeform**

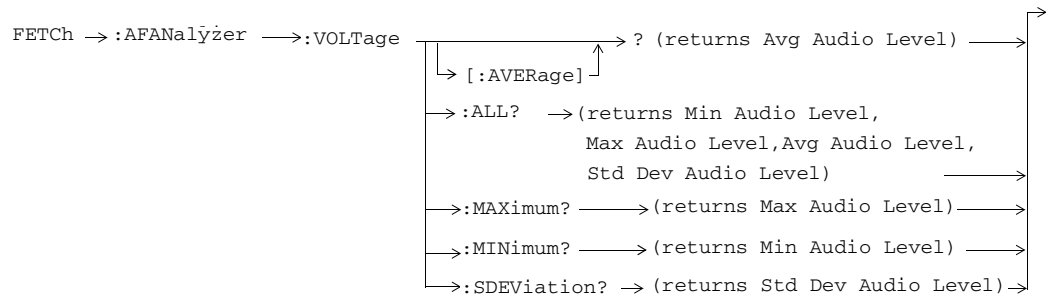
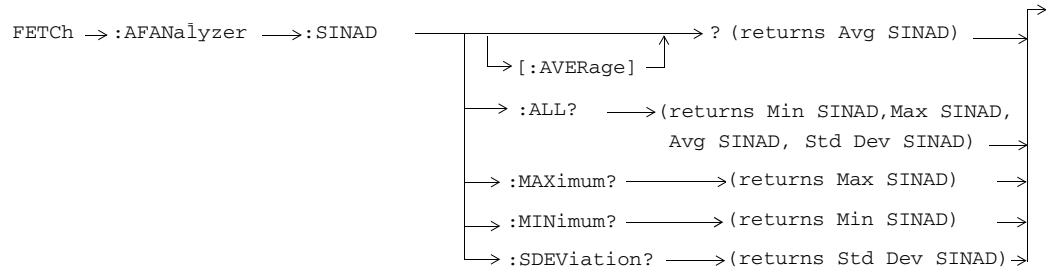


**DISPlay**

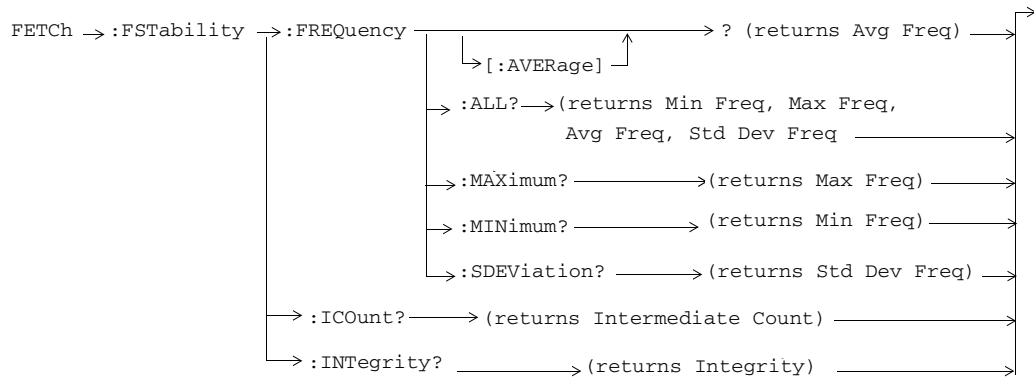
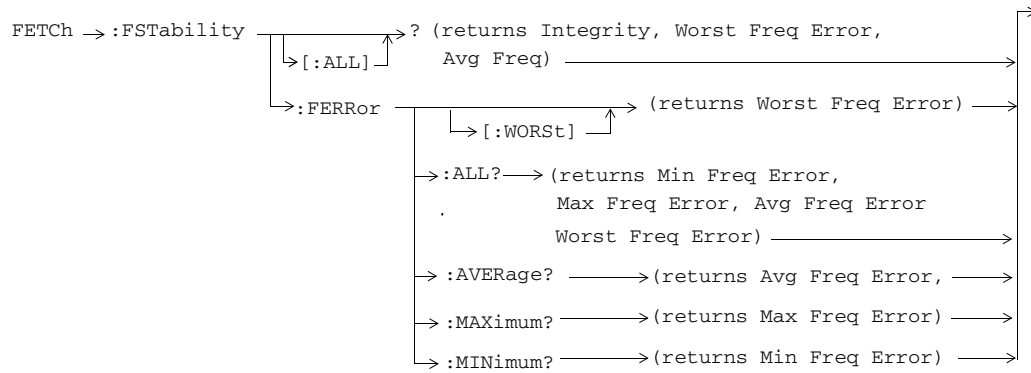


**FETCH:AFANalyzer**





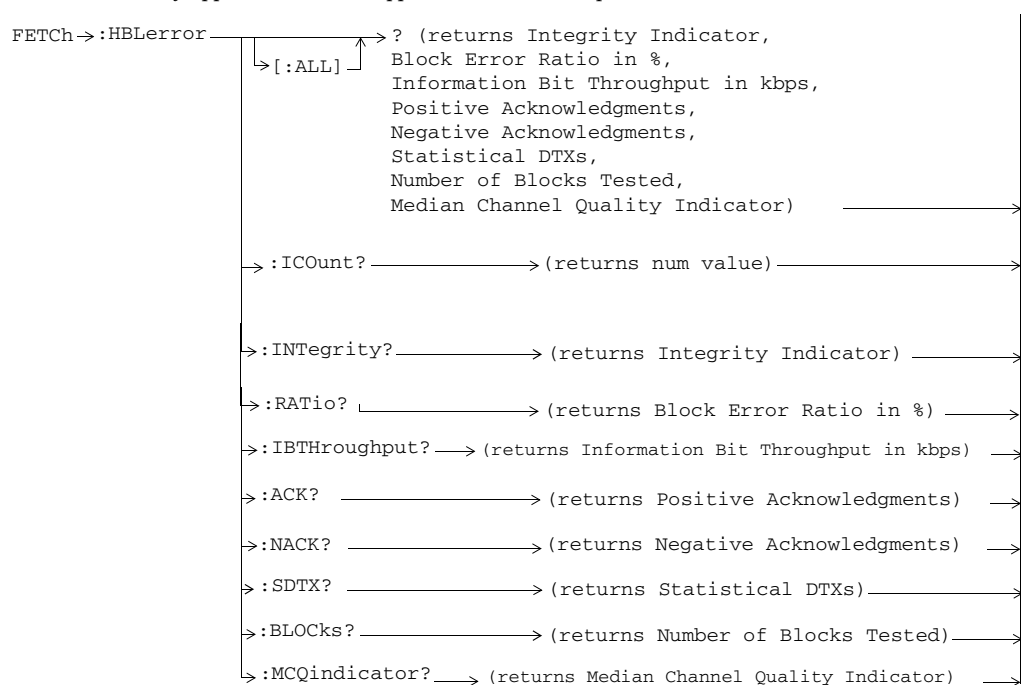
**FETCH:FSTability**



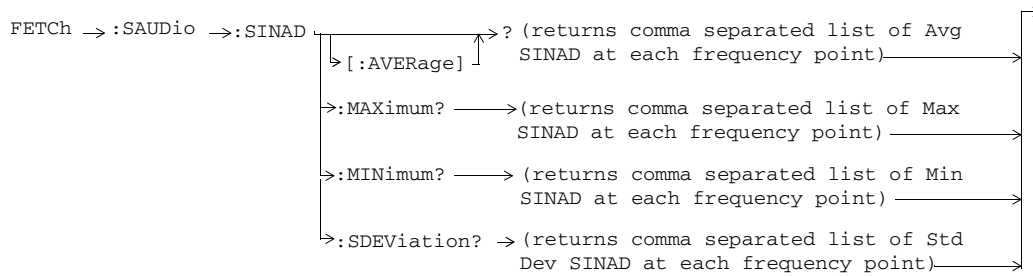
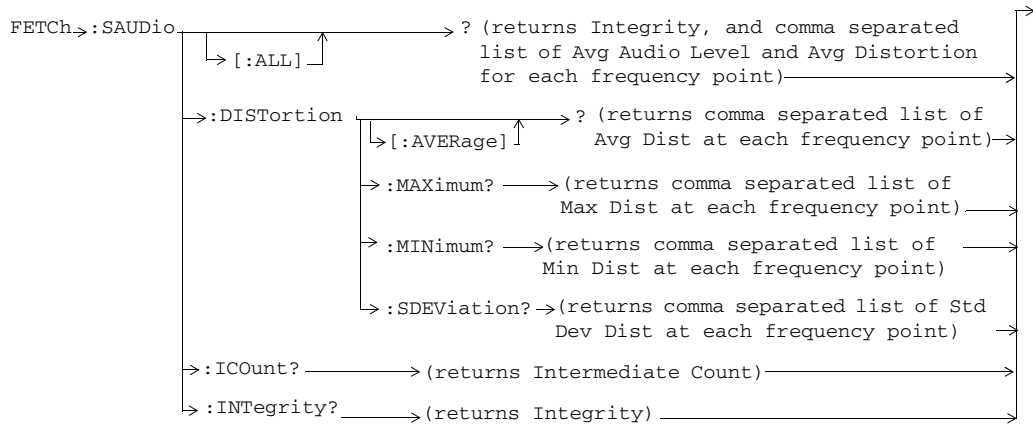
**FETCH:HBLerror**

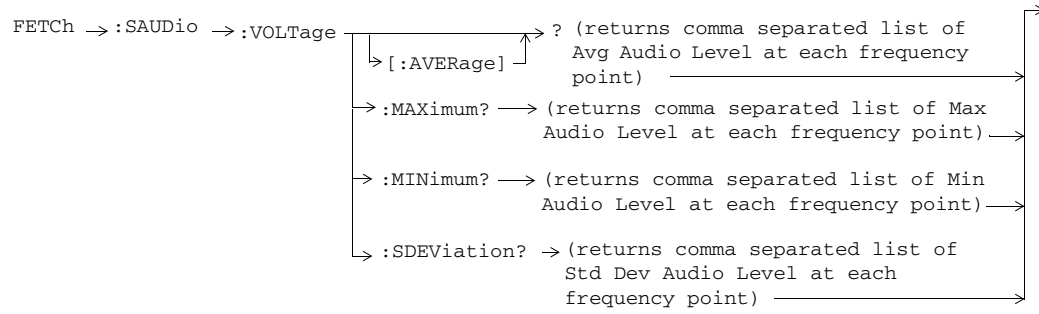


This section is only applicable to a test application with the required feature license.

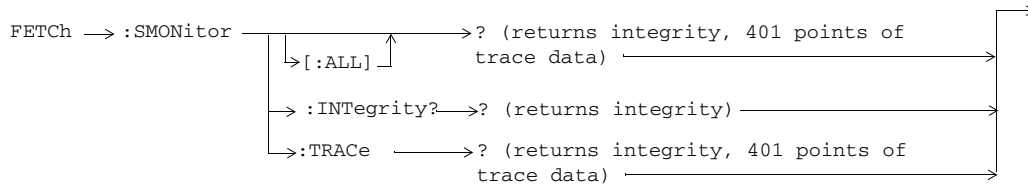


**FETCH:SAUDIO**

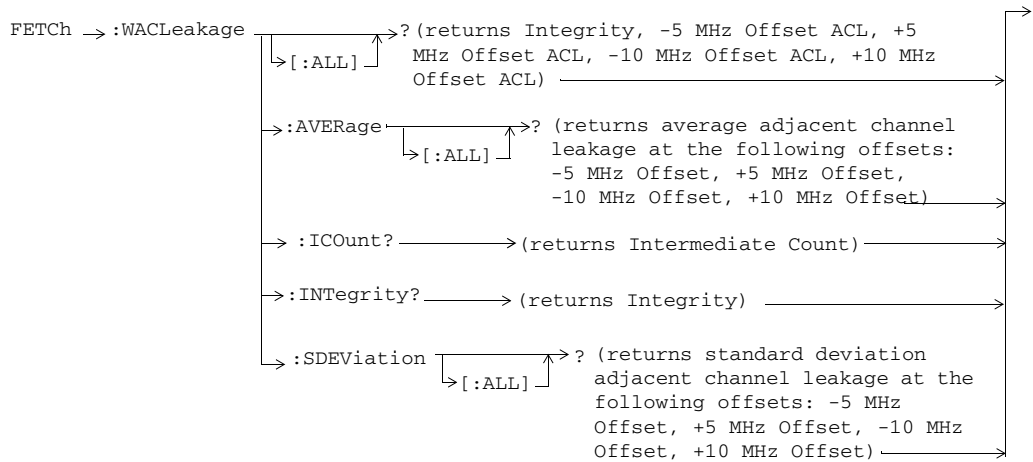




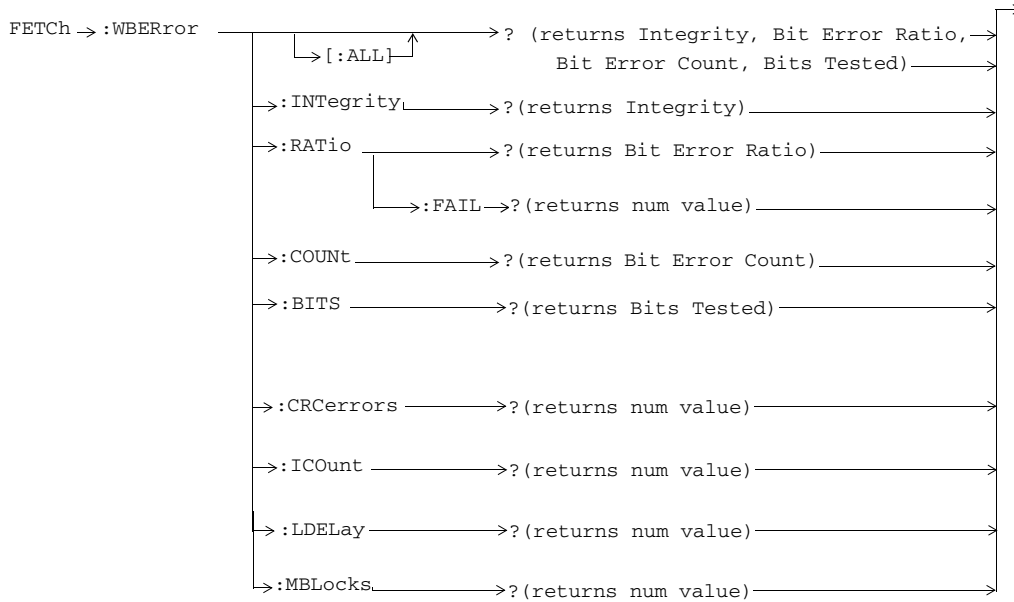
**FETCH:SMONitor**



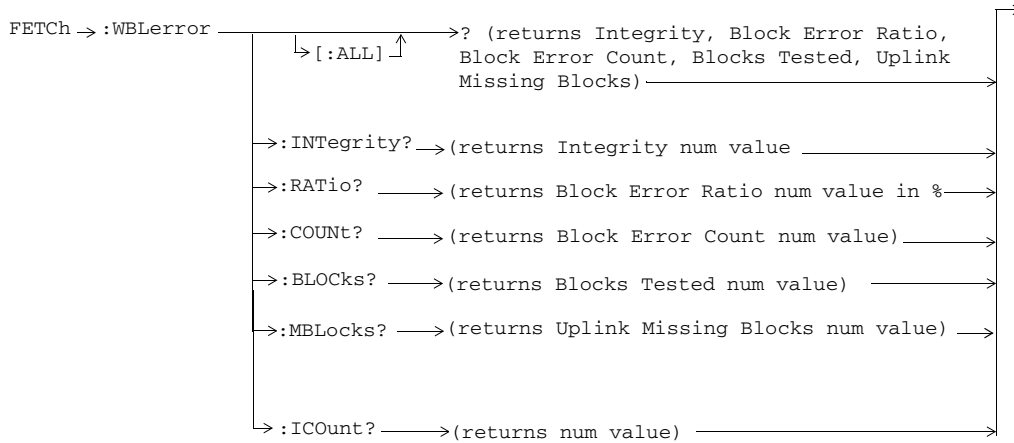
**FETCH:WACLeakage**



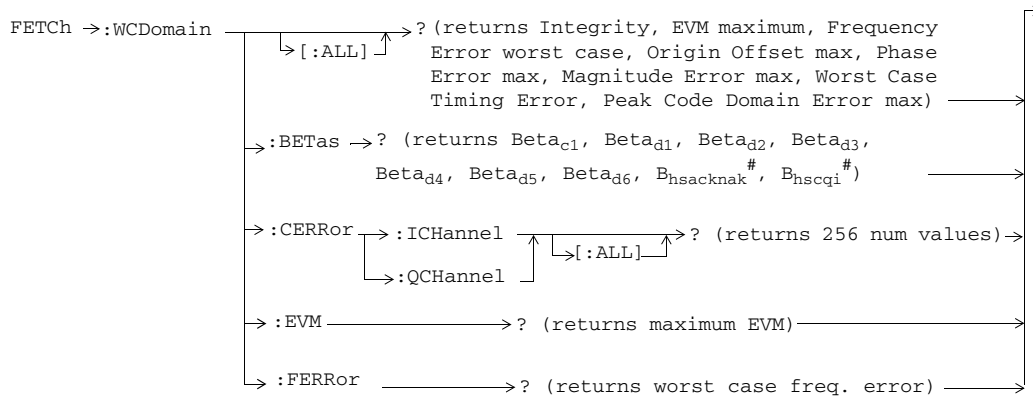
**FEtCh:WBError**



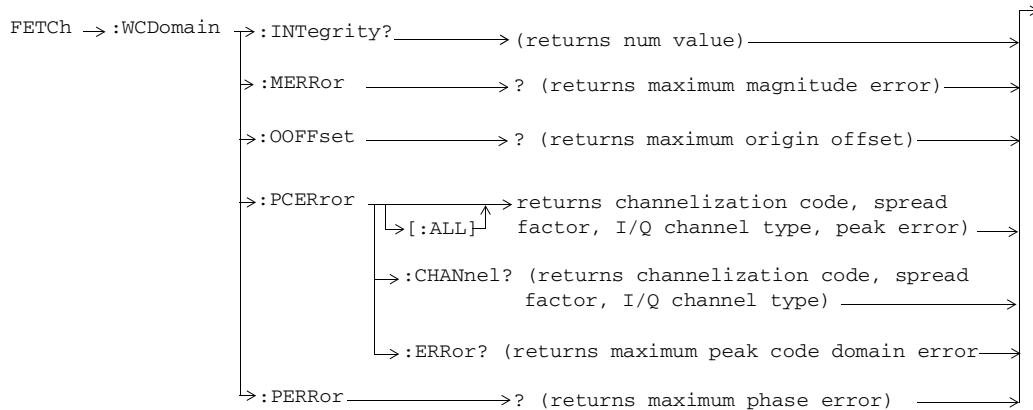
**FEtCh:WBLerror**

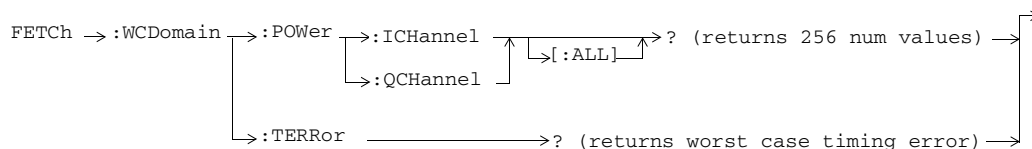


**FETCH:WCDomain**

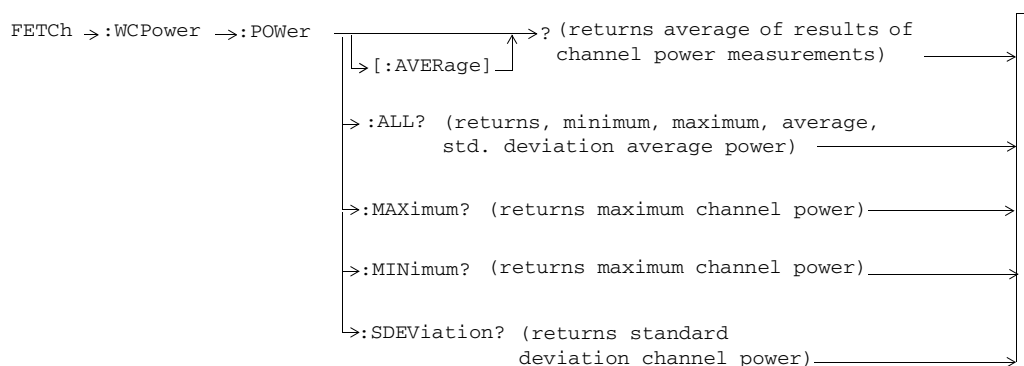
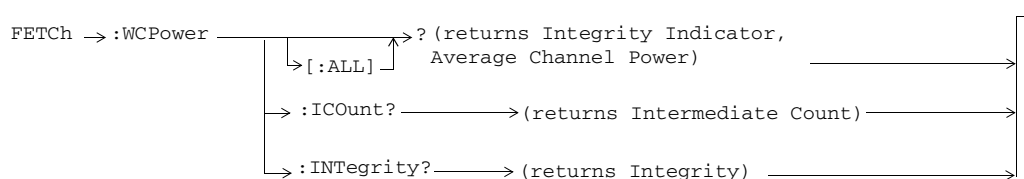


# Only applicable to the lab application or feature-licensed test application



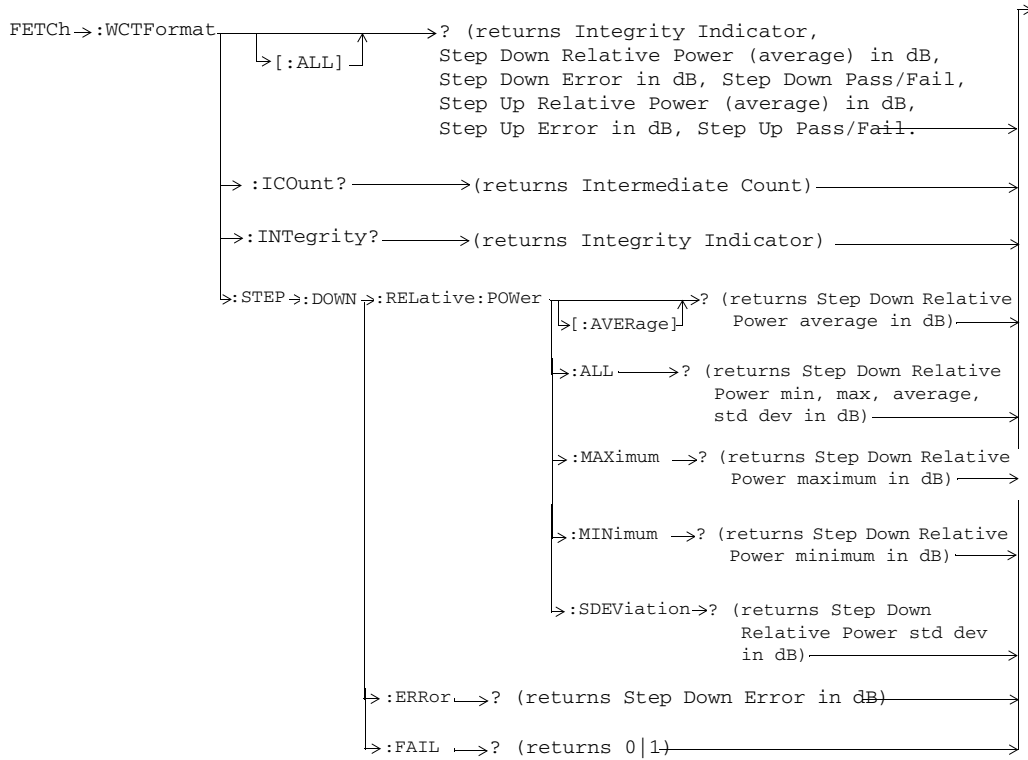


**FETCh:WCPower**

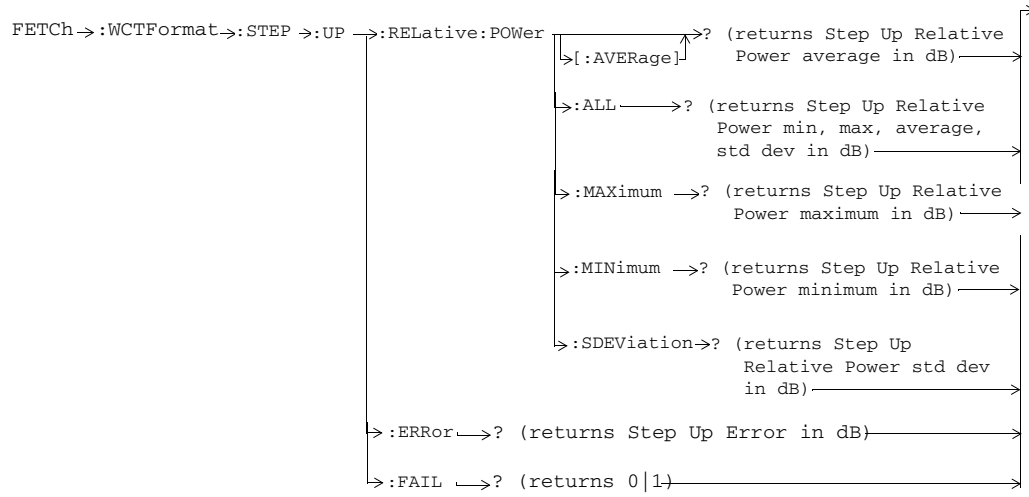


**FETCh:WCTFormat**

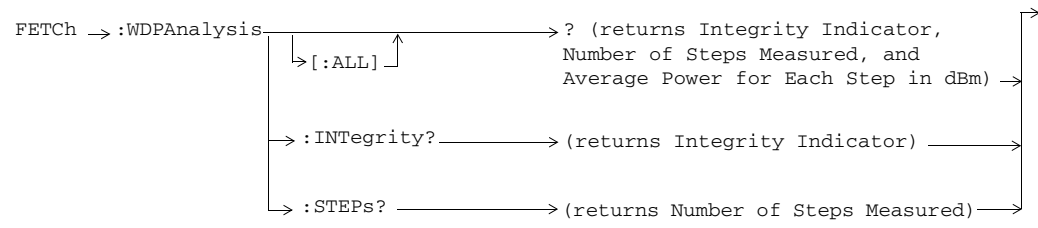
This section is only applicable to the lab application.



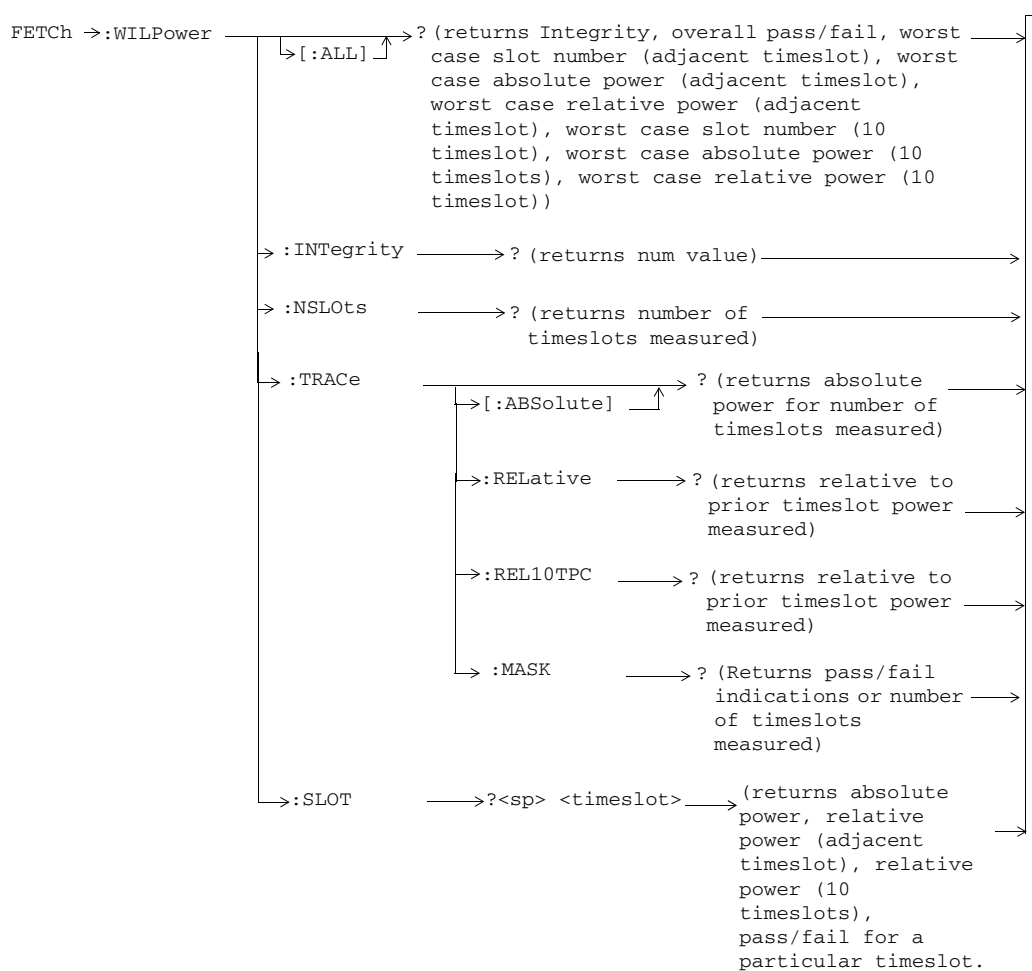




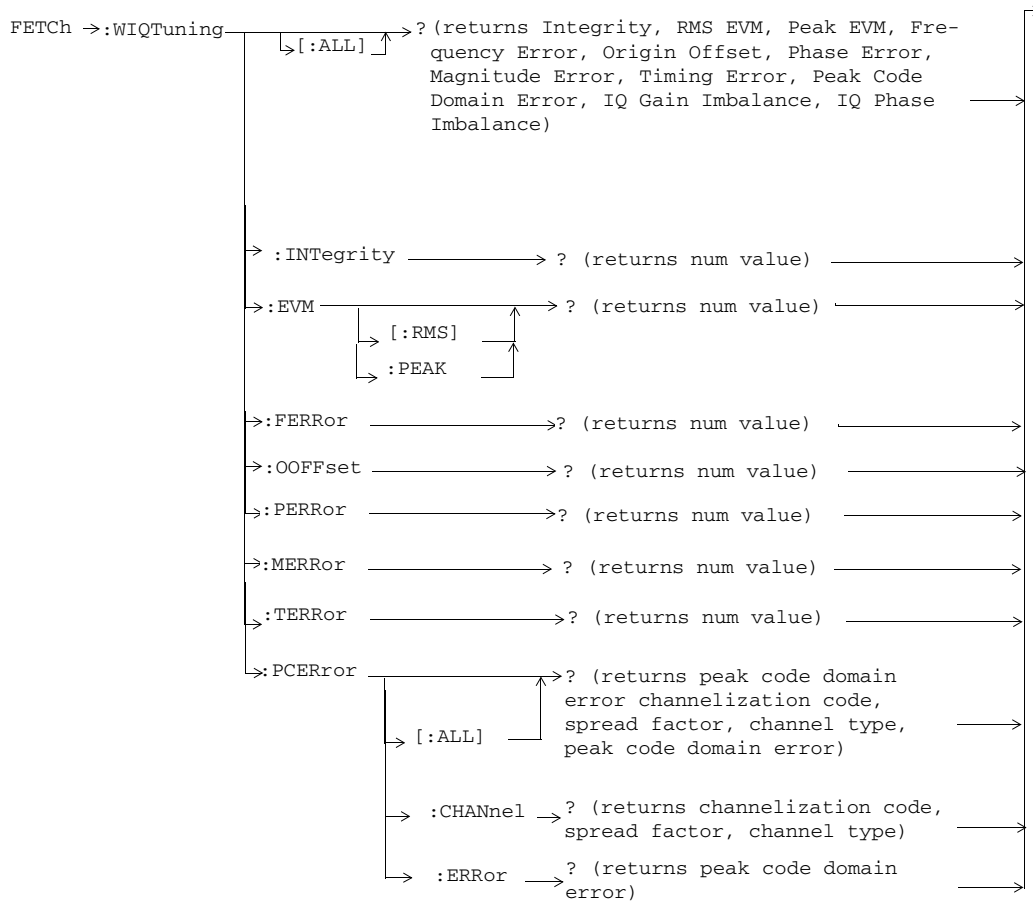
**FEtCh:WDPAnAlYsIs**



**FEtCh:WILPower**

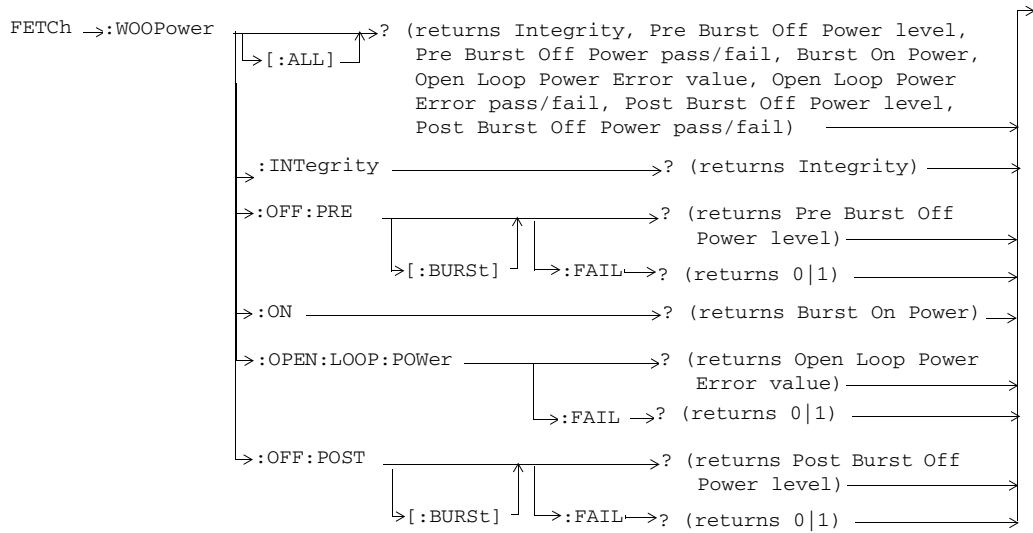


**FETCH:WIQTuning**

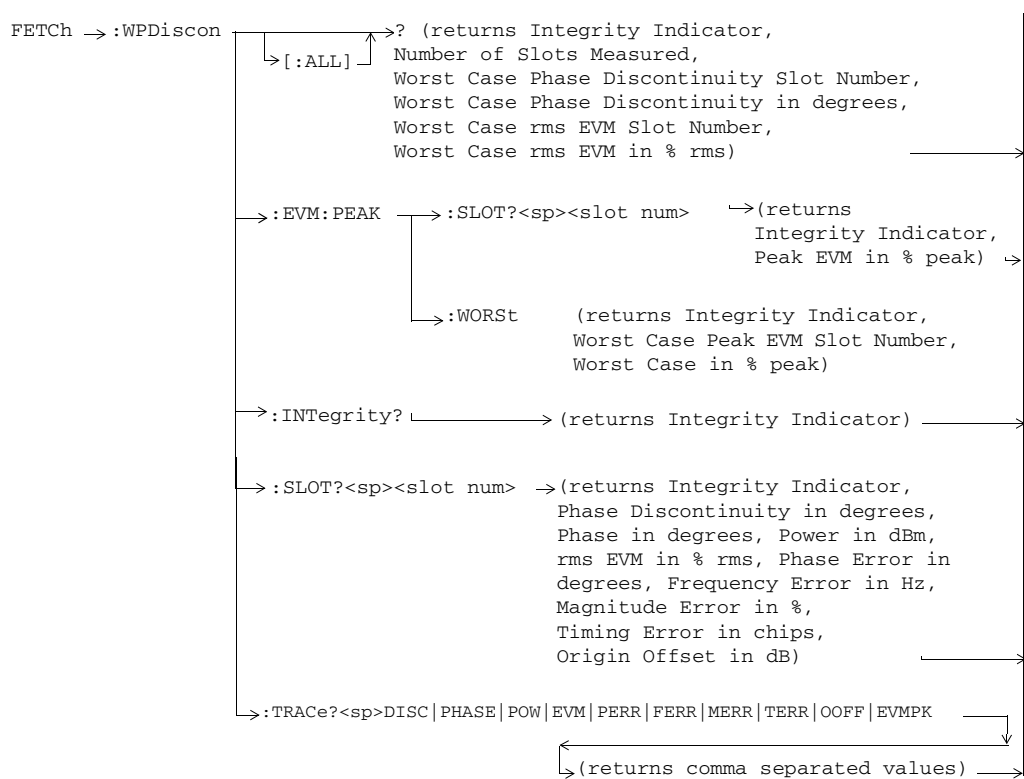




**FETCH:WOOPower**

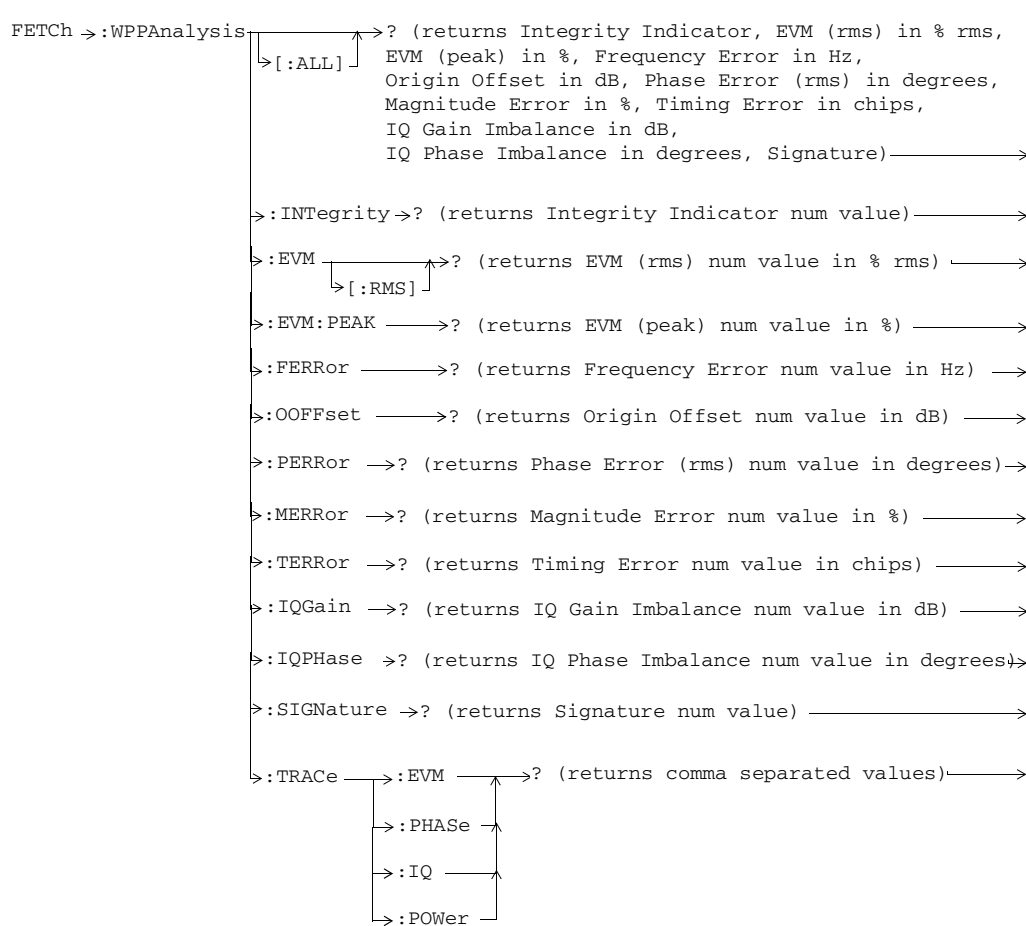


**FEtCh:WpDiscon**



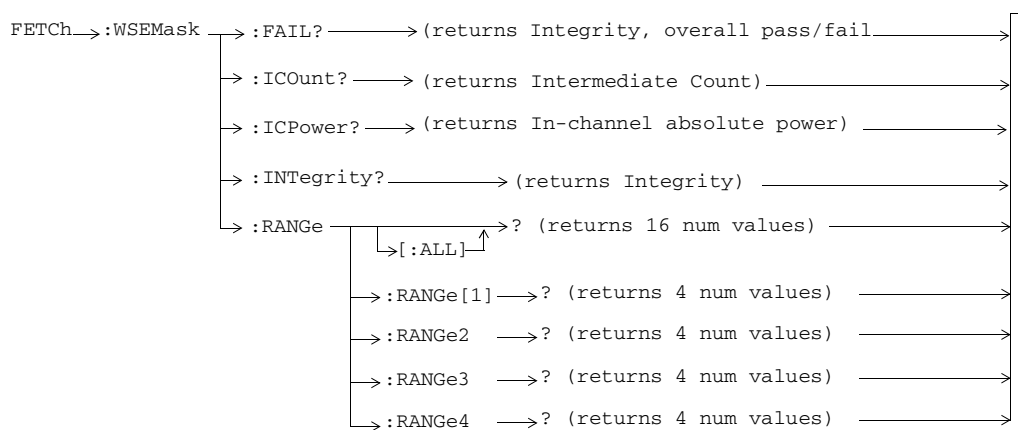
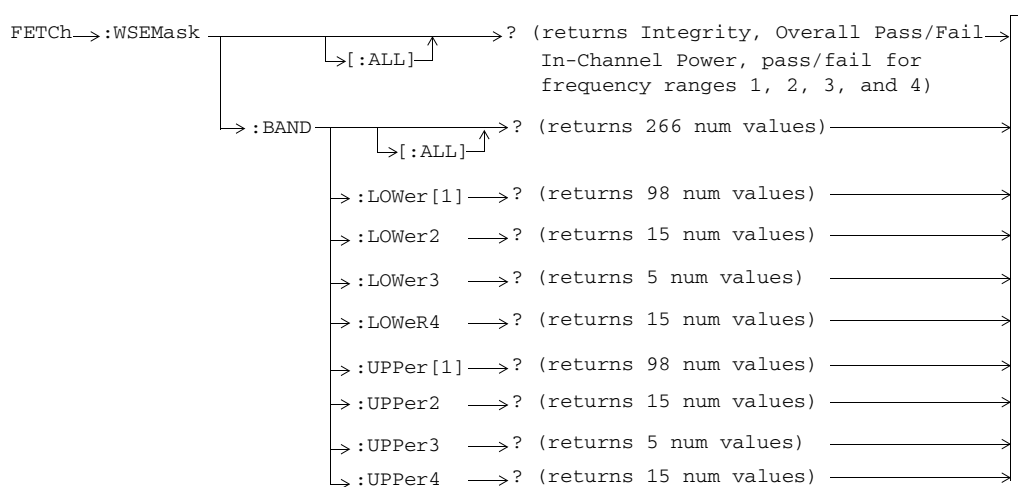
**FEtCh:WpAnalysis**

This section is applicable to the lab application only.

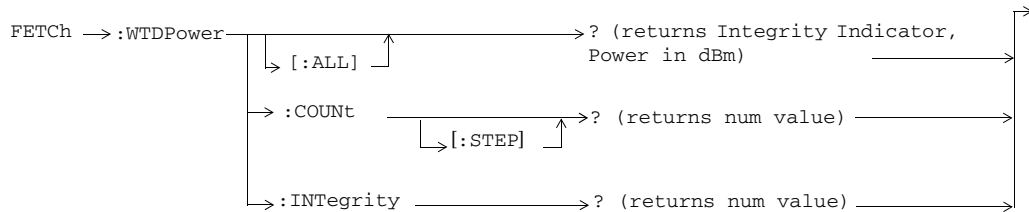




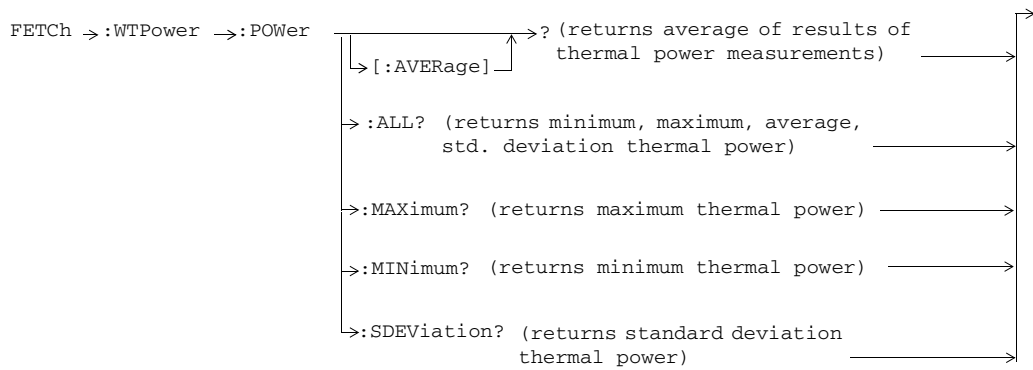
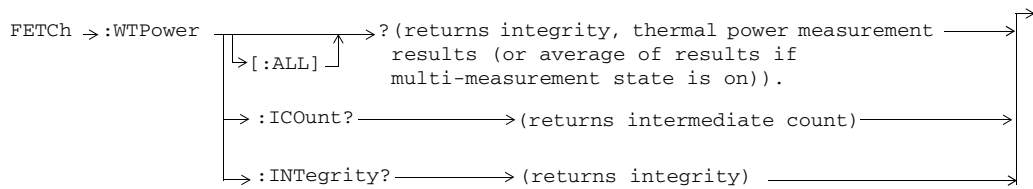
**FEtCh:WSEMask**



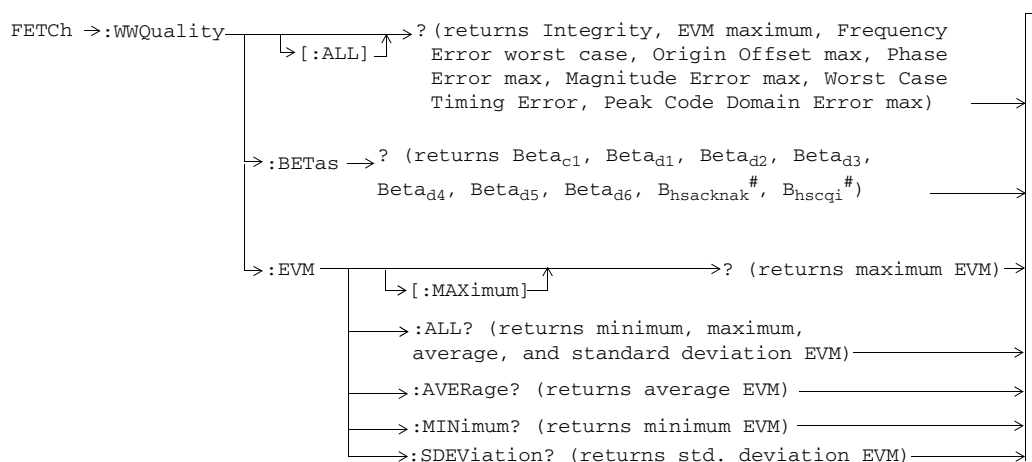
**FETCH:WTDPower**



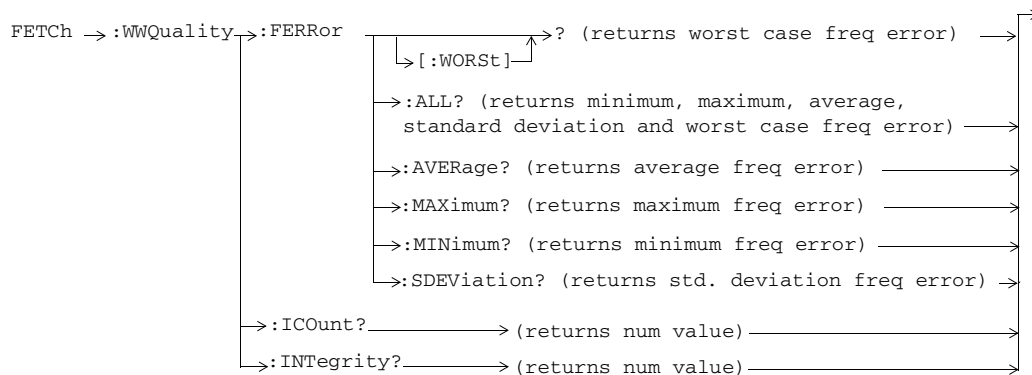
**FETCH:WTPower**



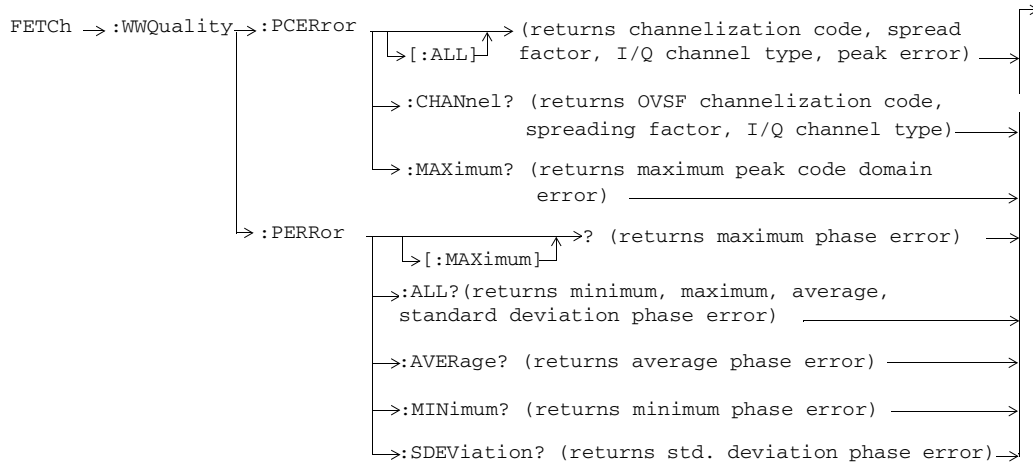
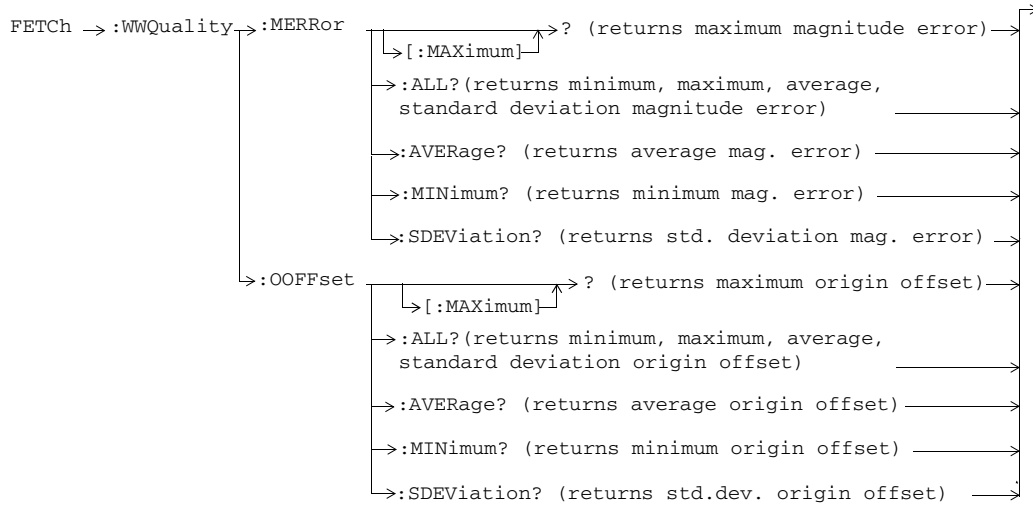
**FETCH:WWQuality**

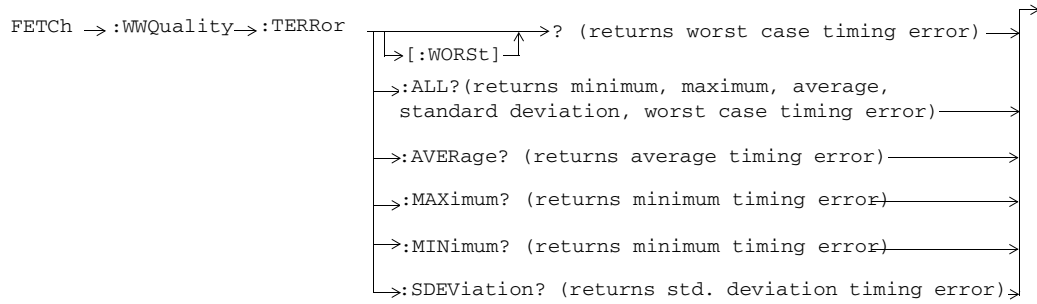


# Only applicable to the lab application or feature-licensed test application

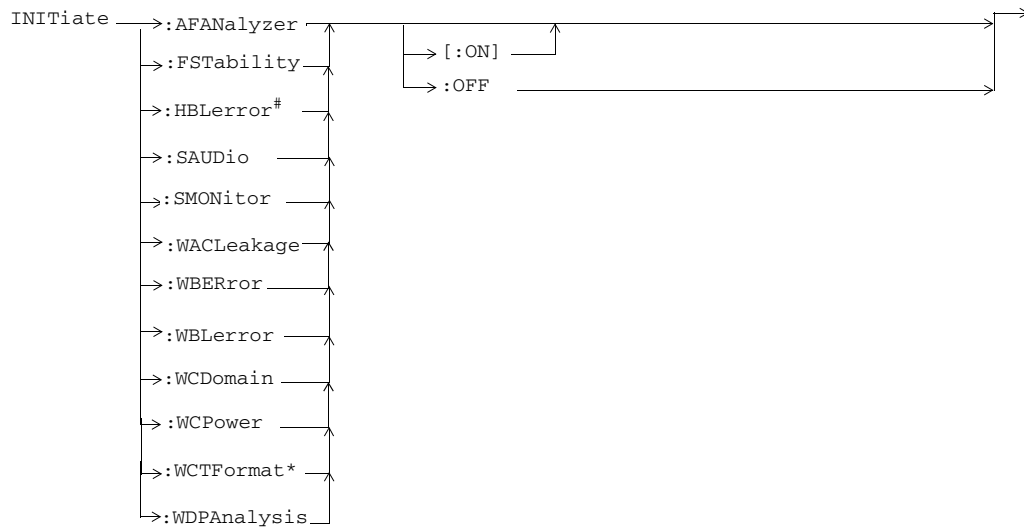


GPIB Syntax for E1963A and E6703C/D/T





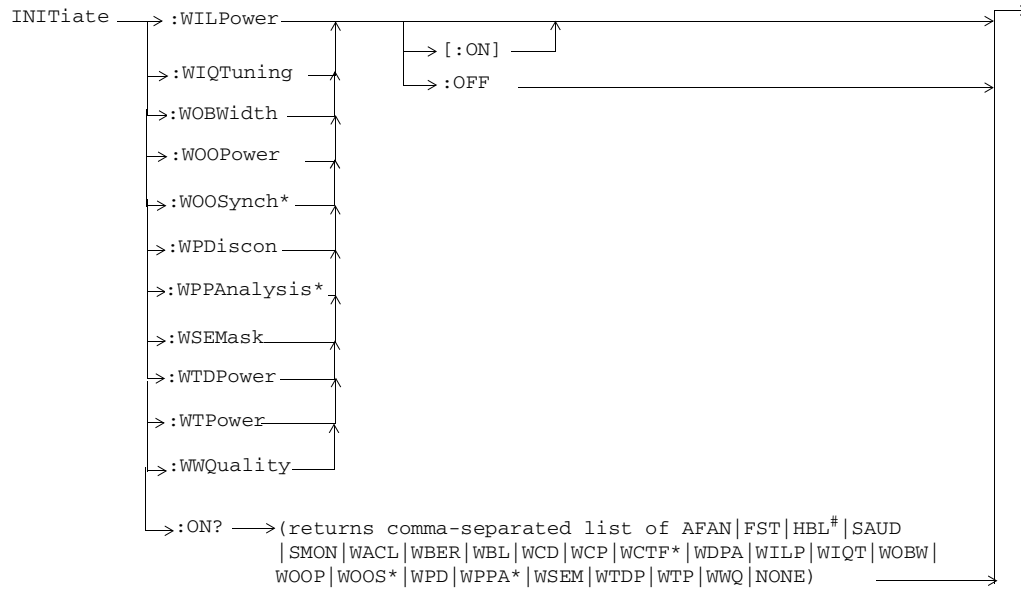
**INITiate**



# Only applicable to a feature-licensed test application.

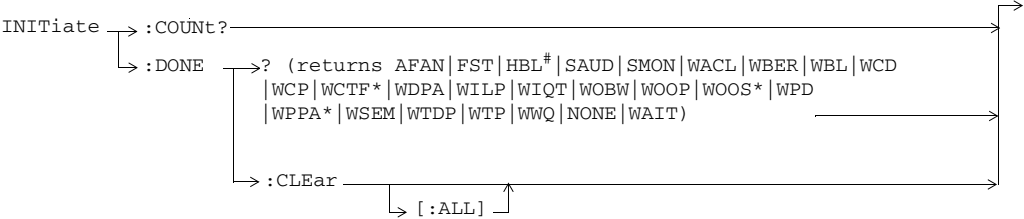
\* Only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T



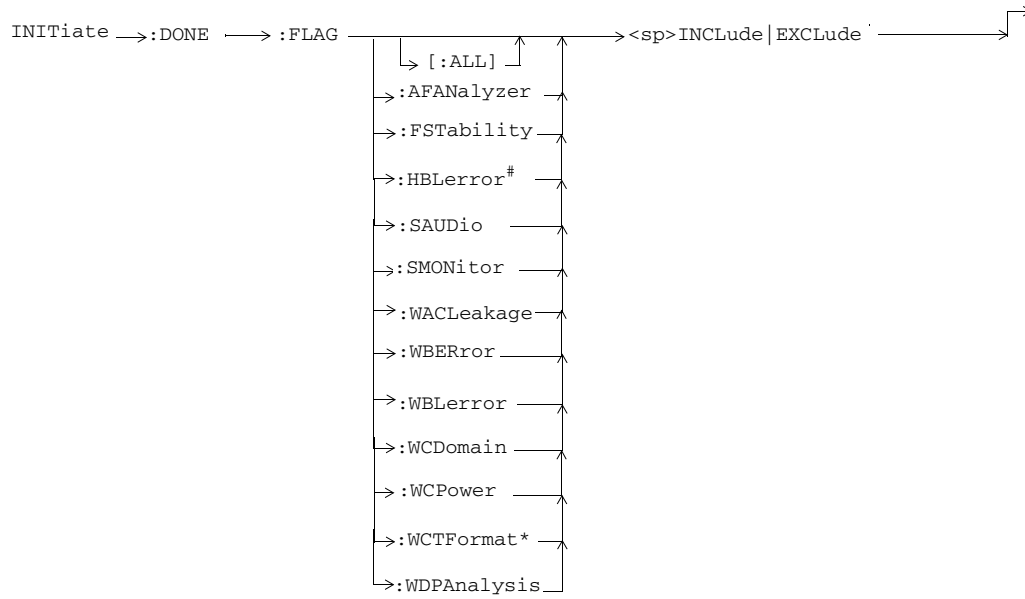
\* Only applicable to the lab application.

# Only applicable to a feature-licensed test application.



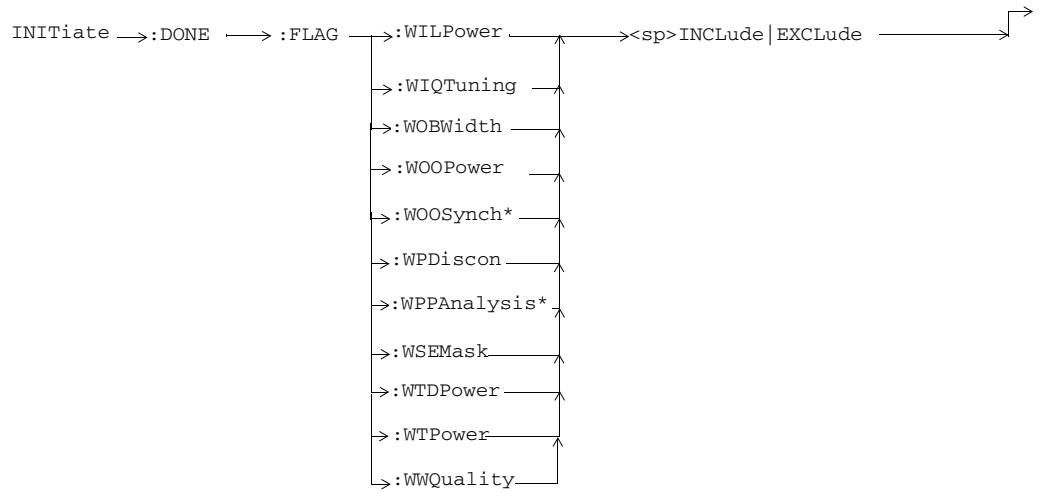
# Only applicable to a feature-licensed test application.  
\* Only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T



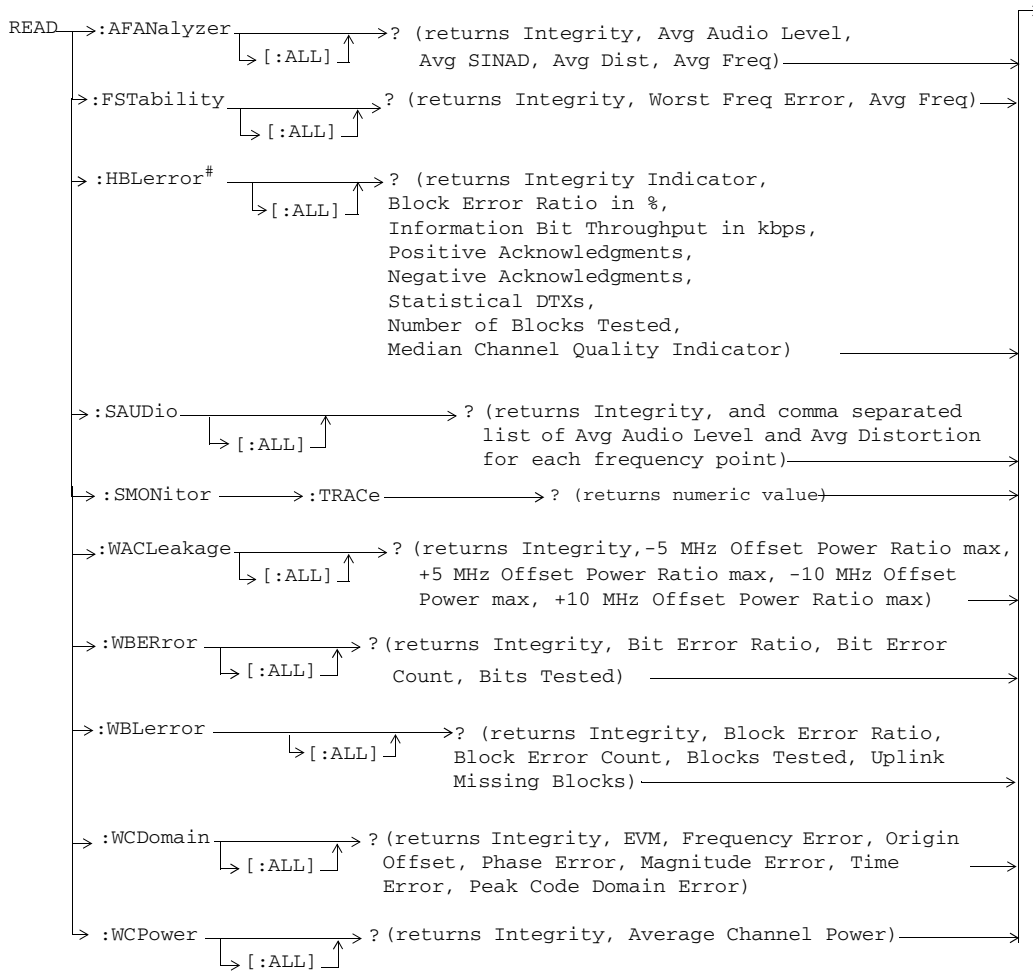
# Only applicable to a feature-licensed test application.  
\* This command is only applicable to the lab application.



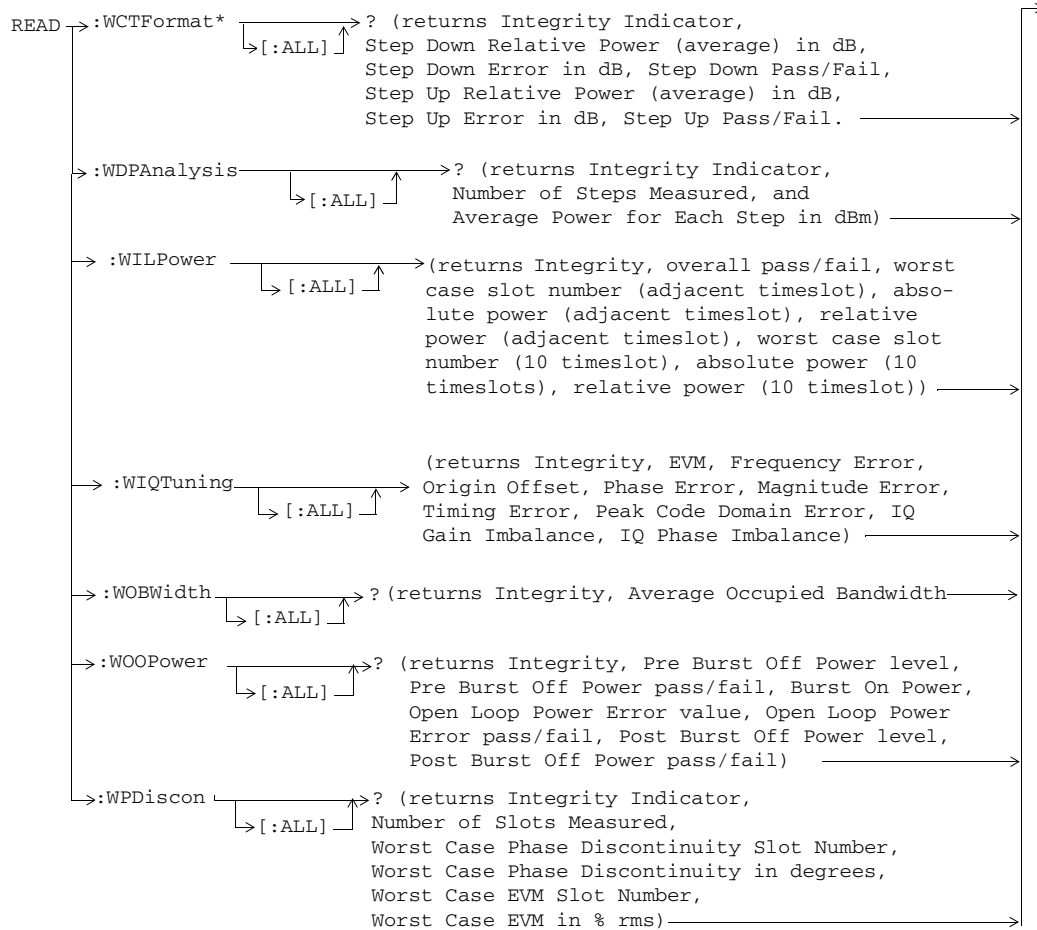


\* This command is only applicable to the lab application.

**READ**

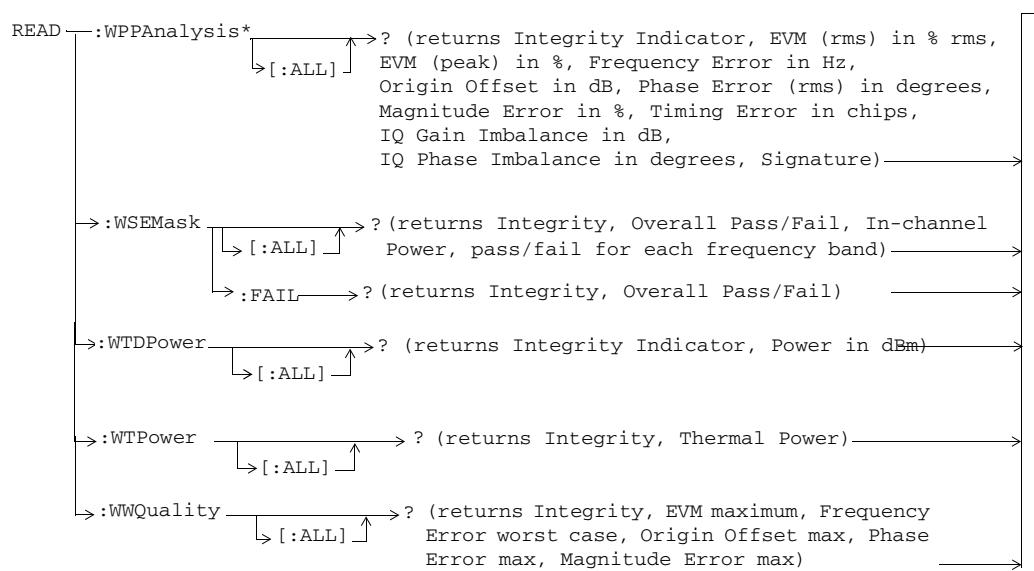


# Only applicable to a feature-license test application.



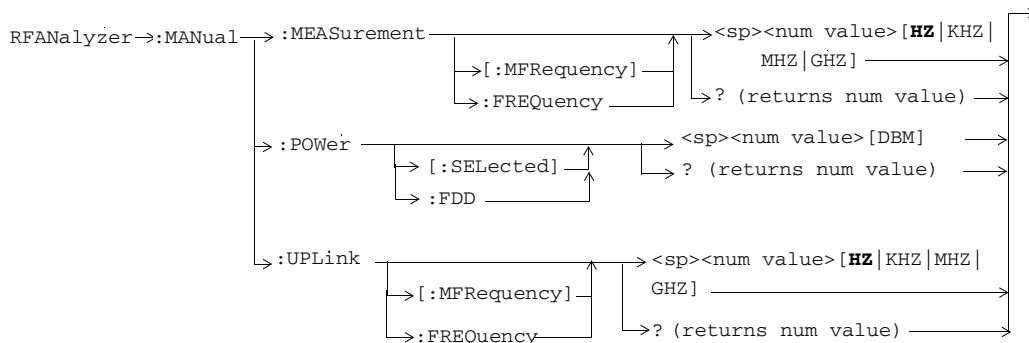
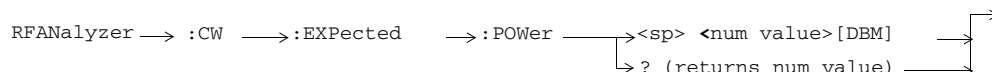
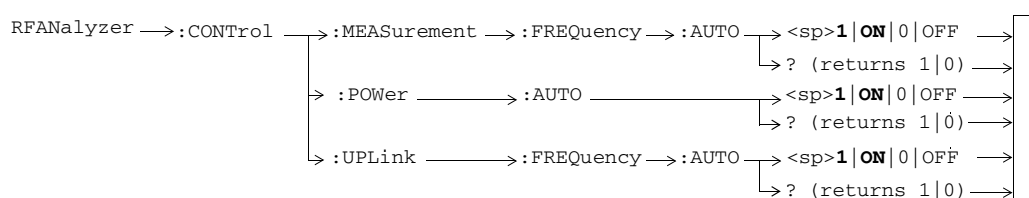
\* Only applicable to the lab application.

GPIB Syntax for E1963A and E6703C/D/T

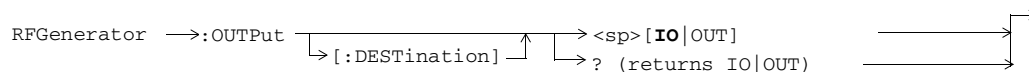


\* Only applicable to the lab application.

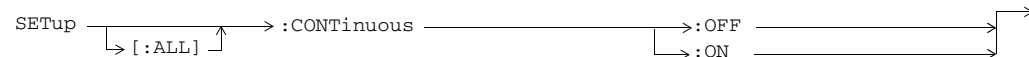
**RFANalyzer**



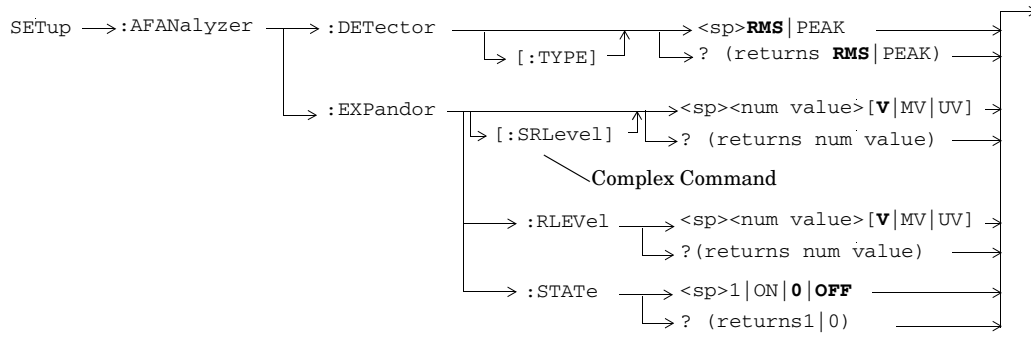
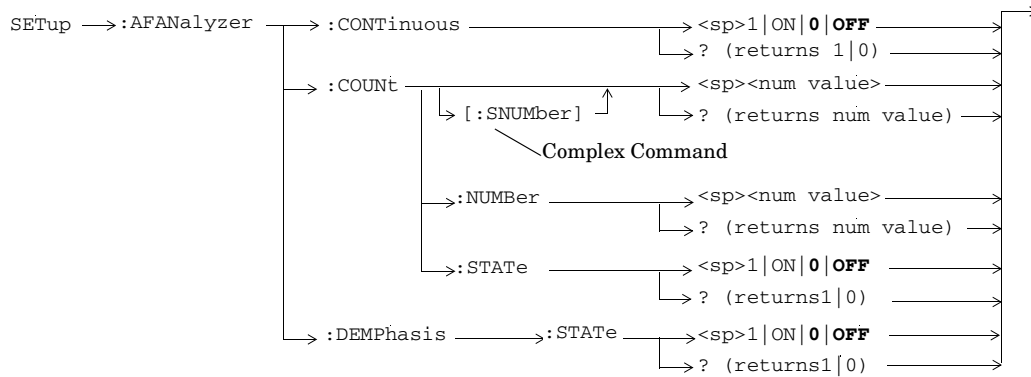
**RFGenerator:OUTPut**

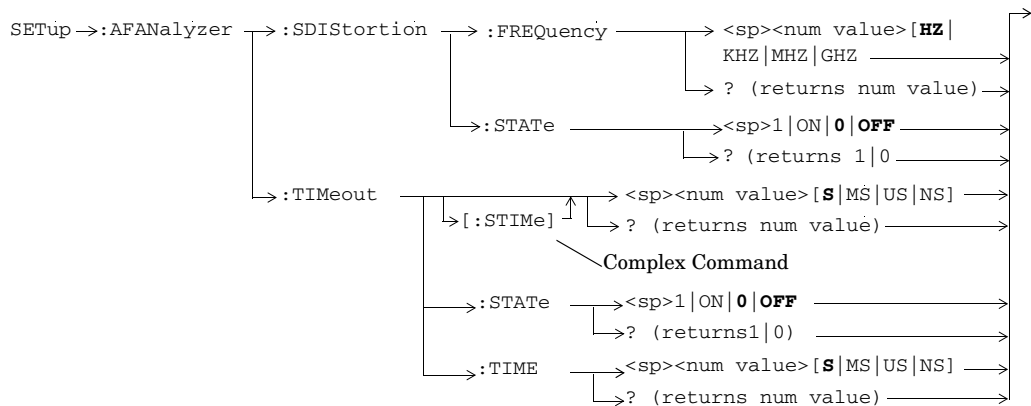
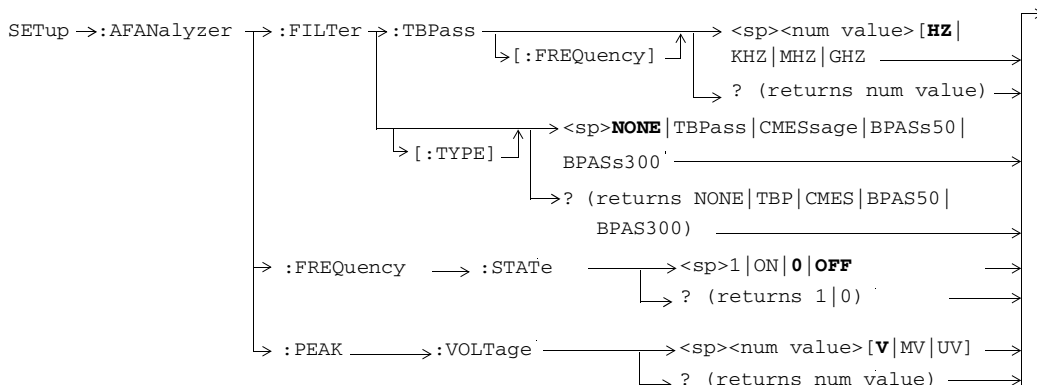


**SETup:CONTinuous**



**SETup:AFANalyzer**



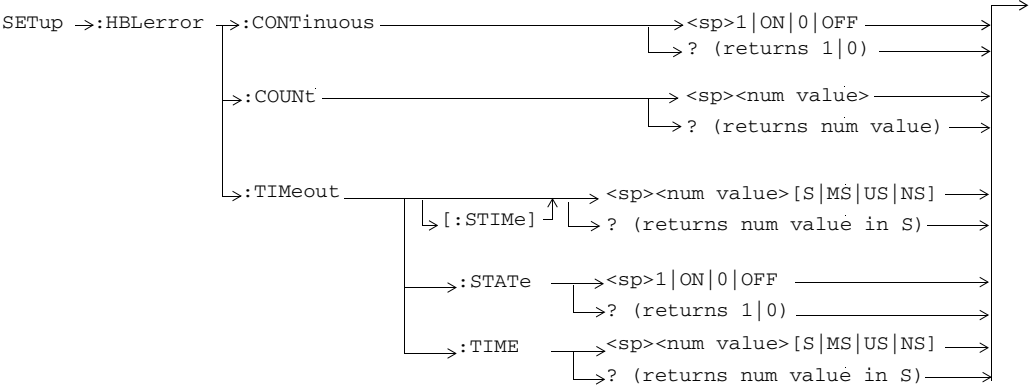




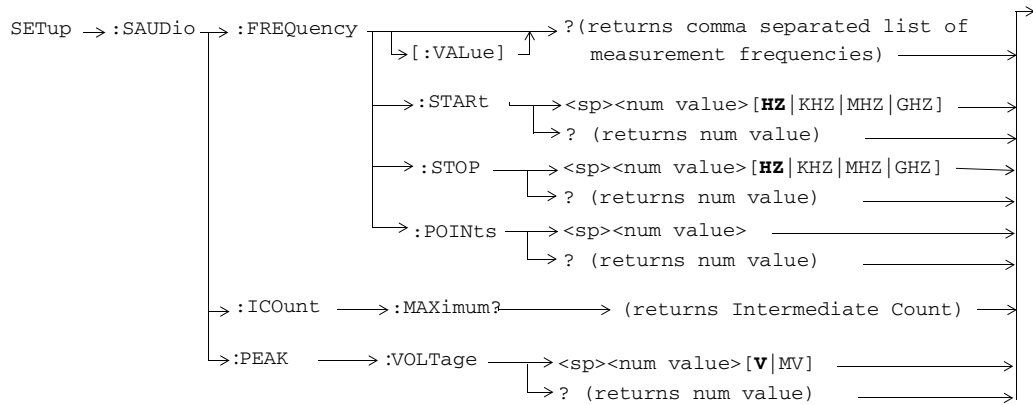
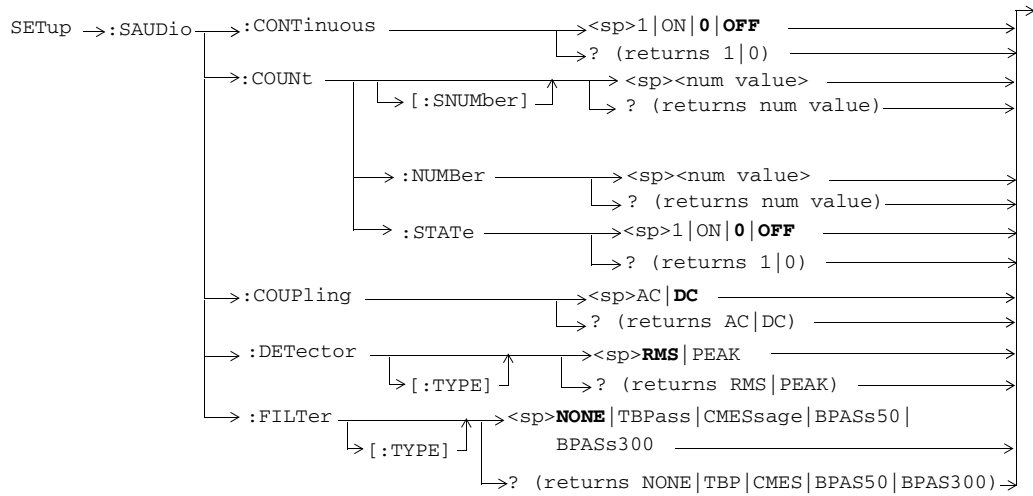


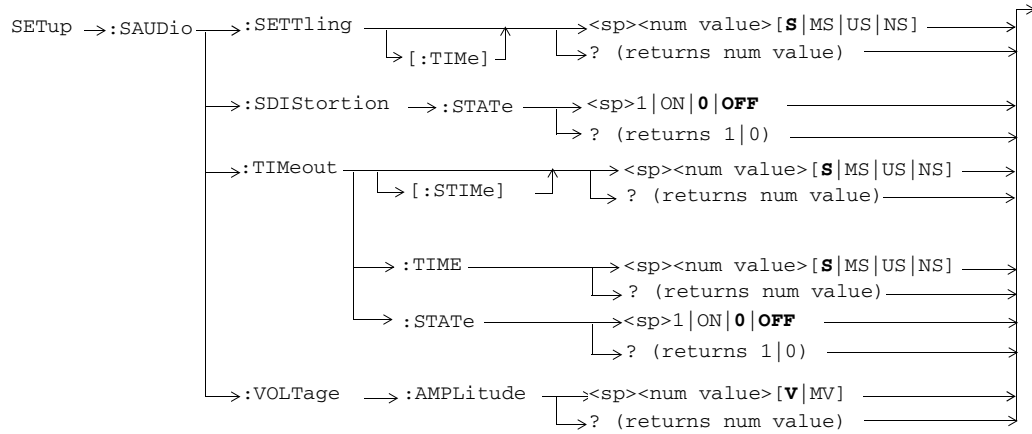
**SETup:HBLerror**

This section is only applicable to a test application with the required feature license.

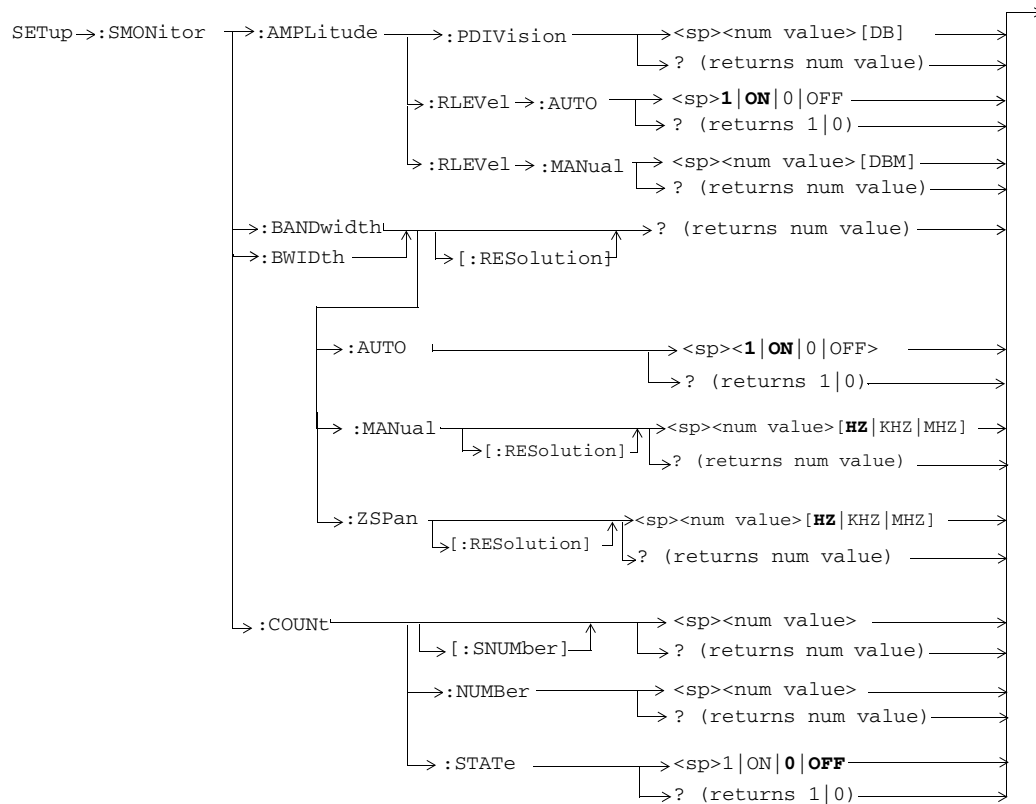


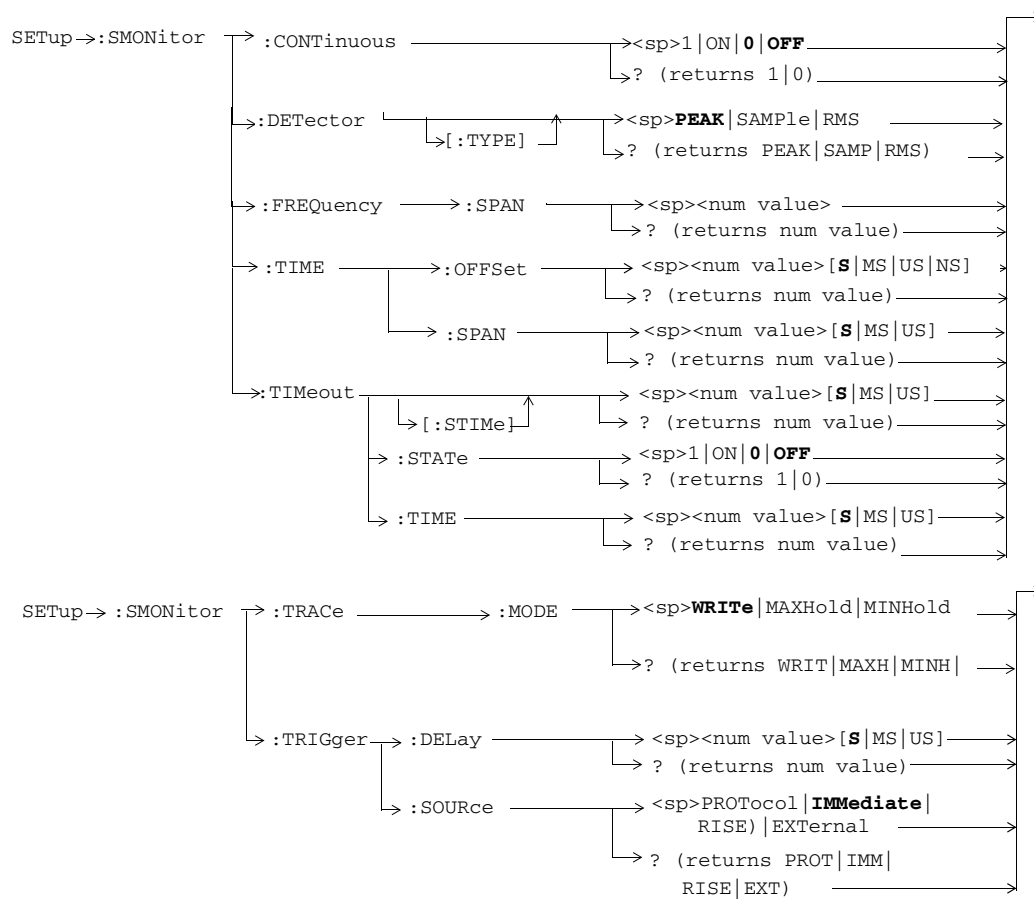
**SETup:SAUDio**



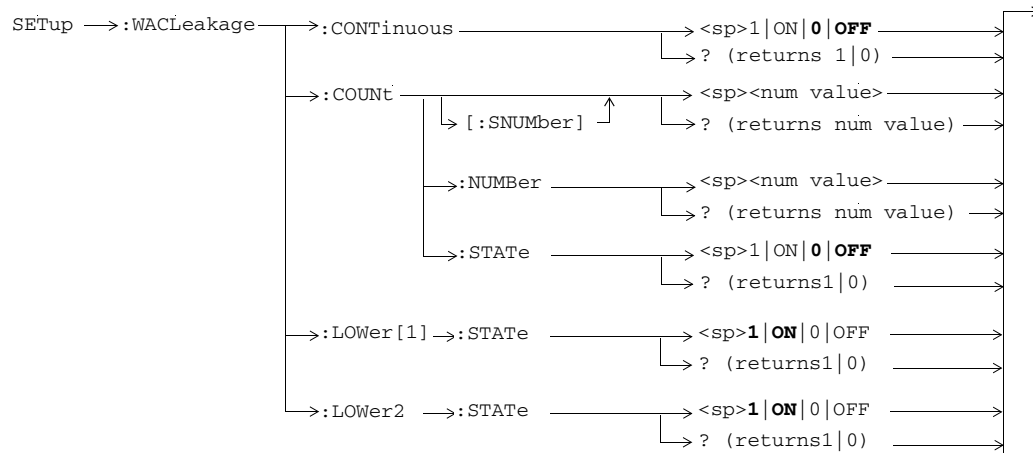


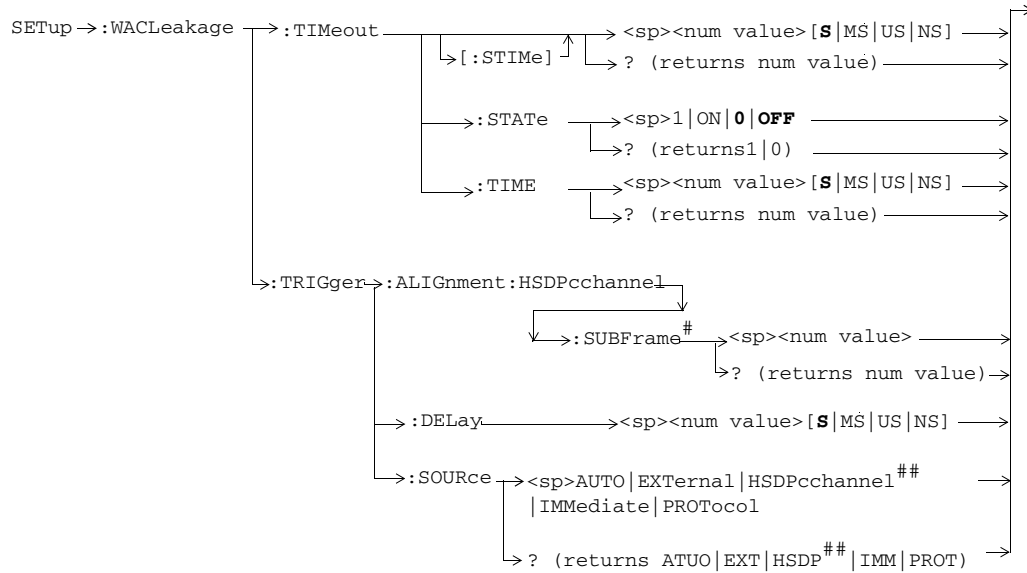
**SETup:SMONitor**





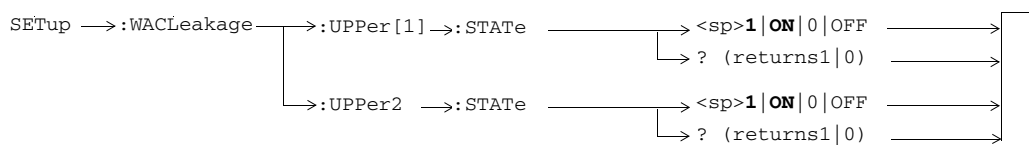
**SETup:WACLeakage**



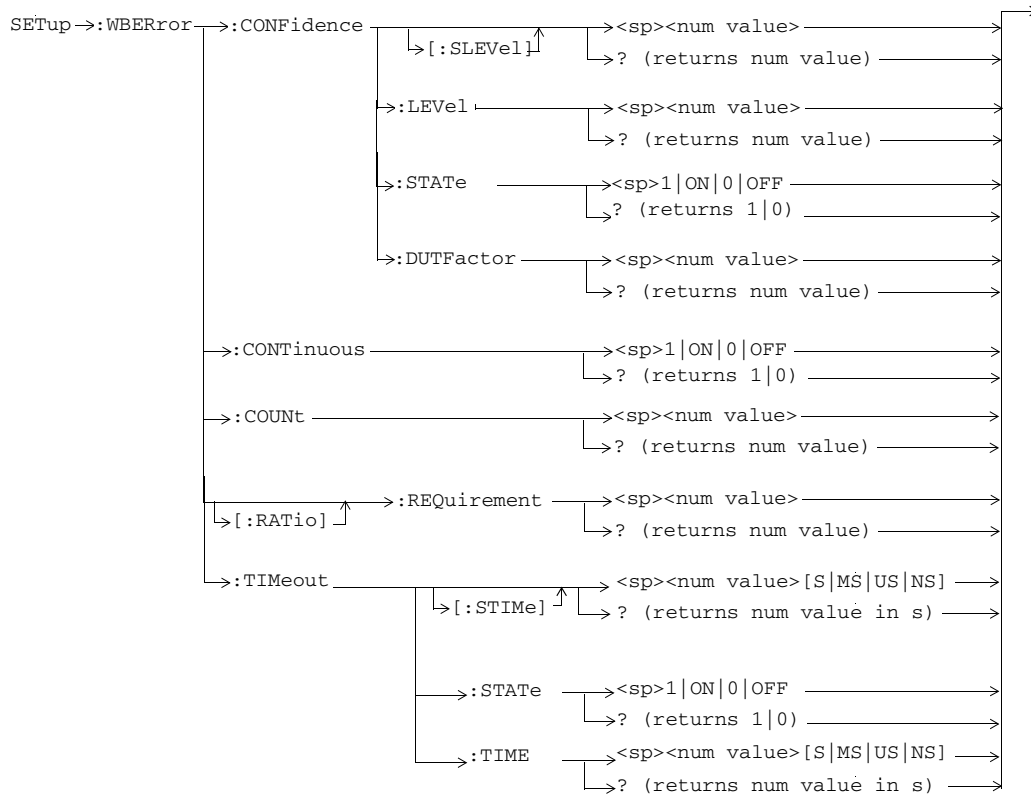


# This command is only applicable to a feature-licensed test application

## This setting/query return is only applicable to a feature-licensed test application

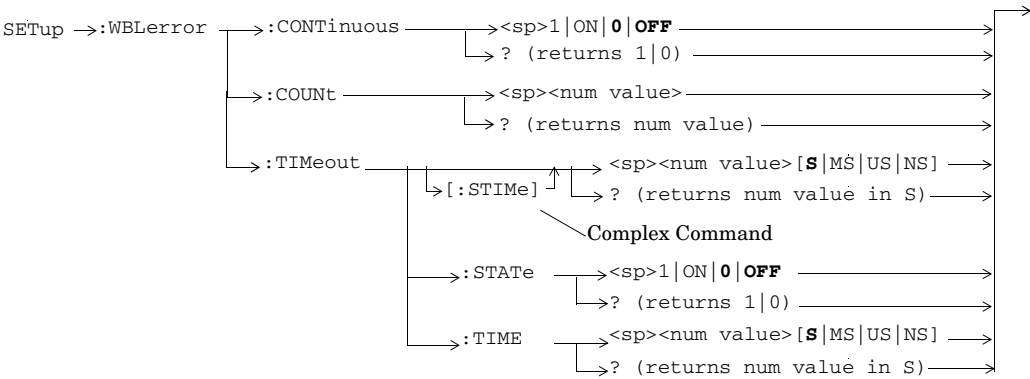


**SETup:WBError**

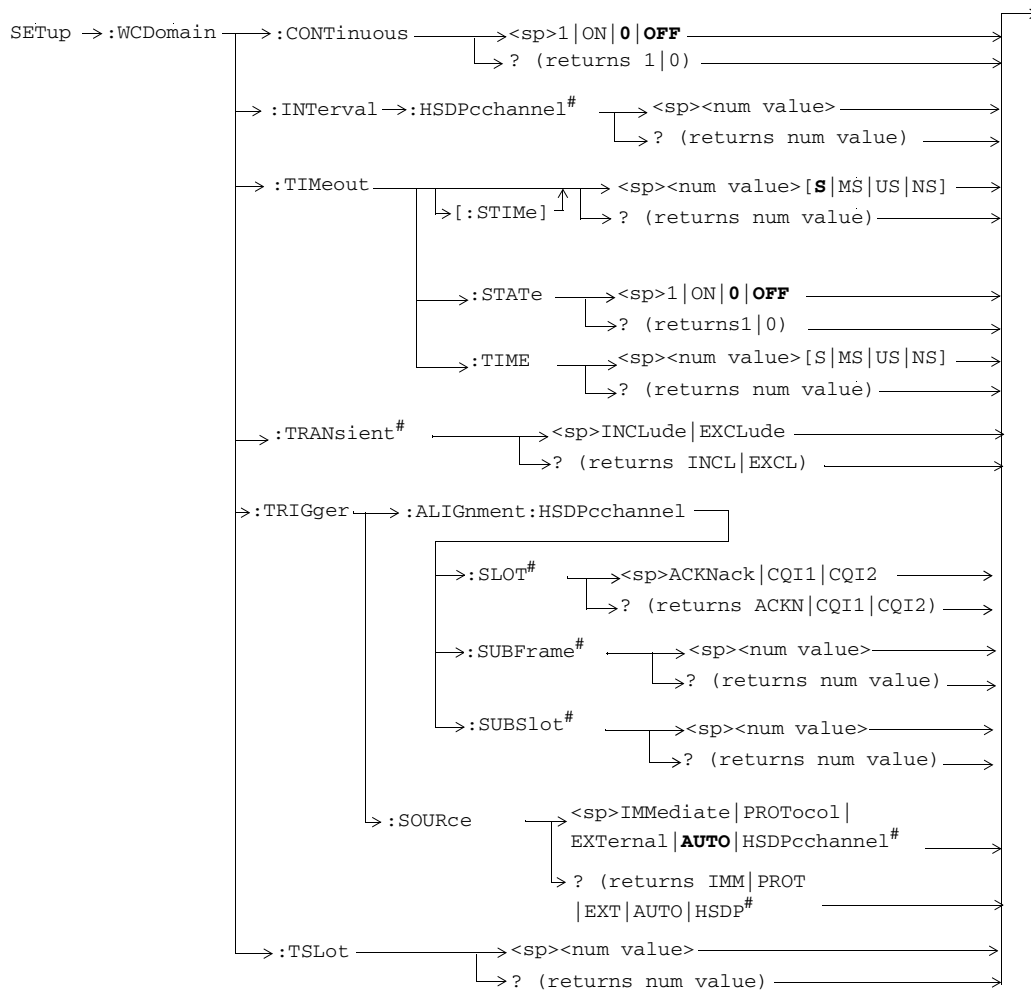




**SETup:WBLerror**

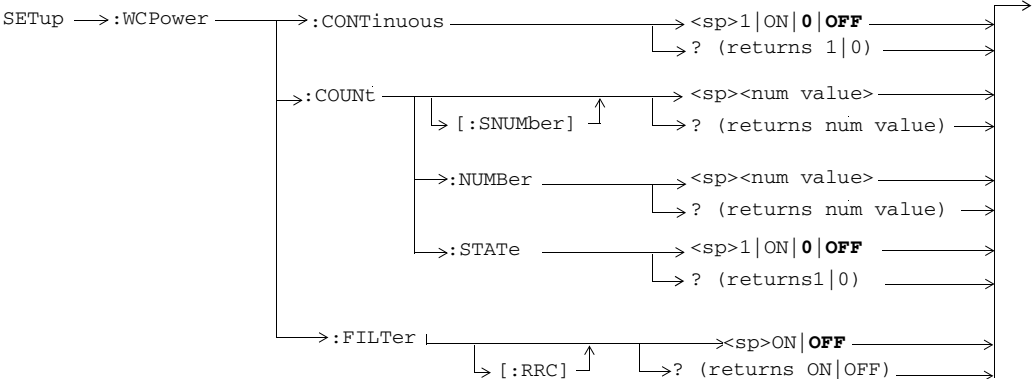


### SETup:WCDomain

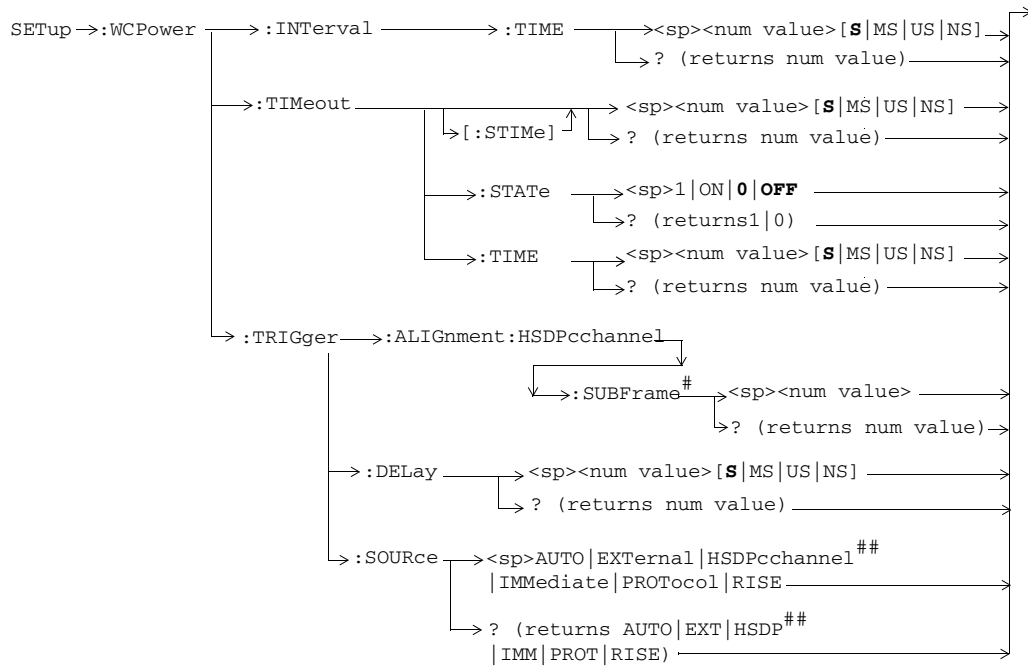


# Only applicable to the lab application or feature-licensed test application.

**SETup:WCPower**



GPIB Syntax for E1963A and E6703C/D/T

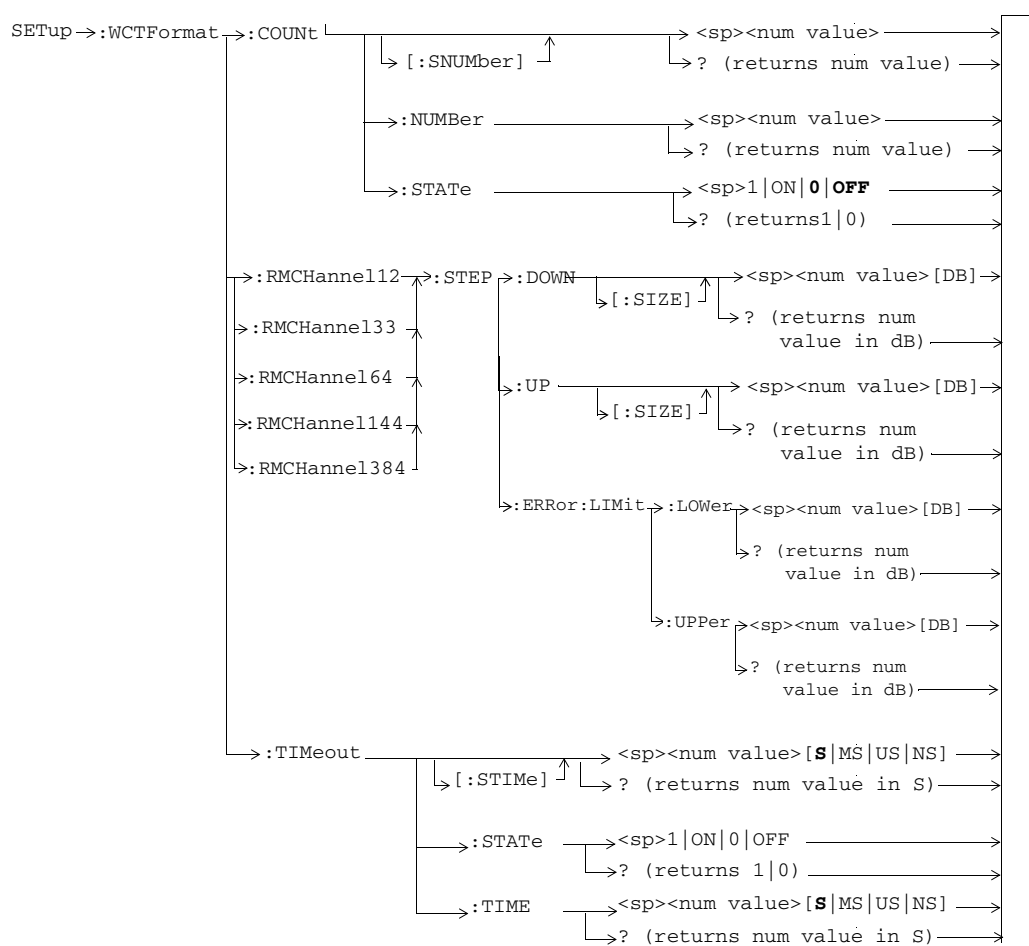


# This command is only applicable to a feature-licensed test application

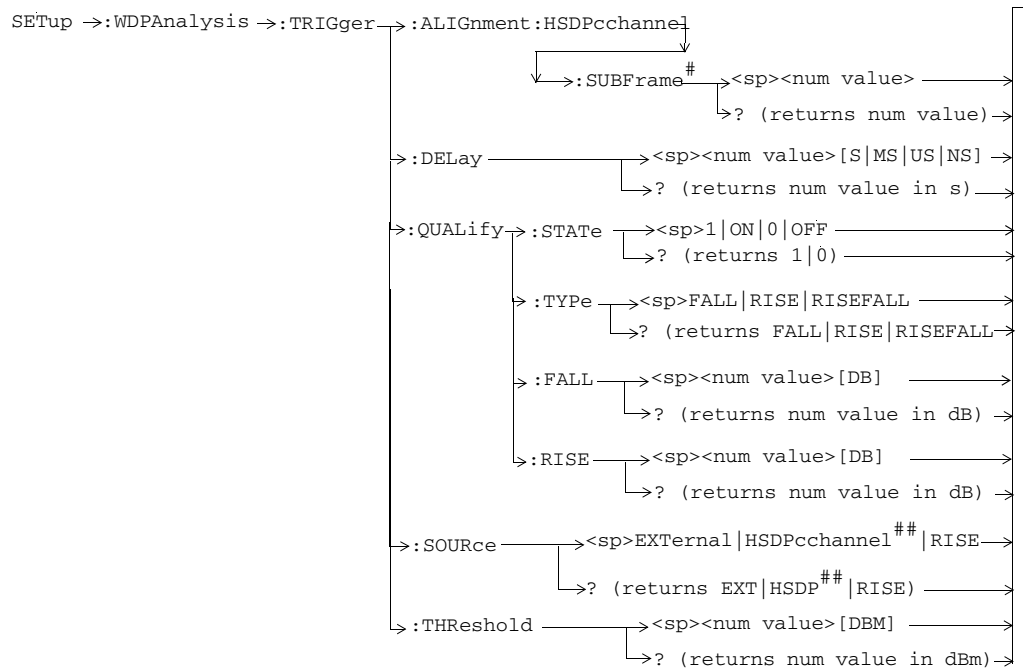
## This setting/query return is only applicable to a feature-licensed test application

### SETup:WCTFormat

This section is only applicable to the lab application.



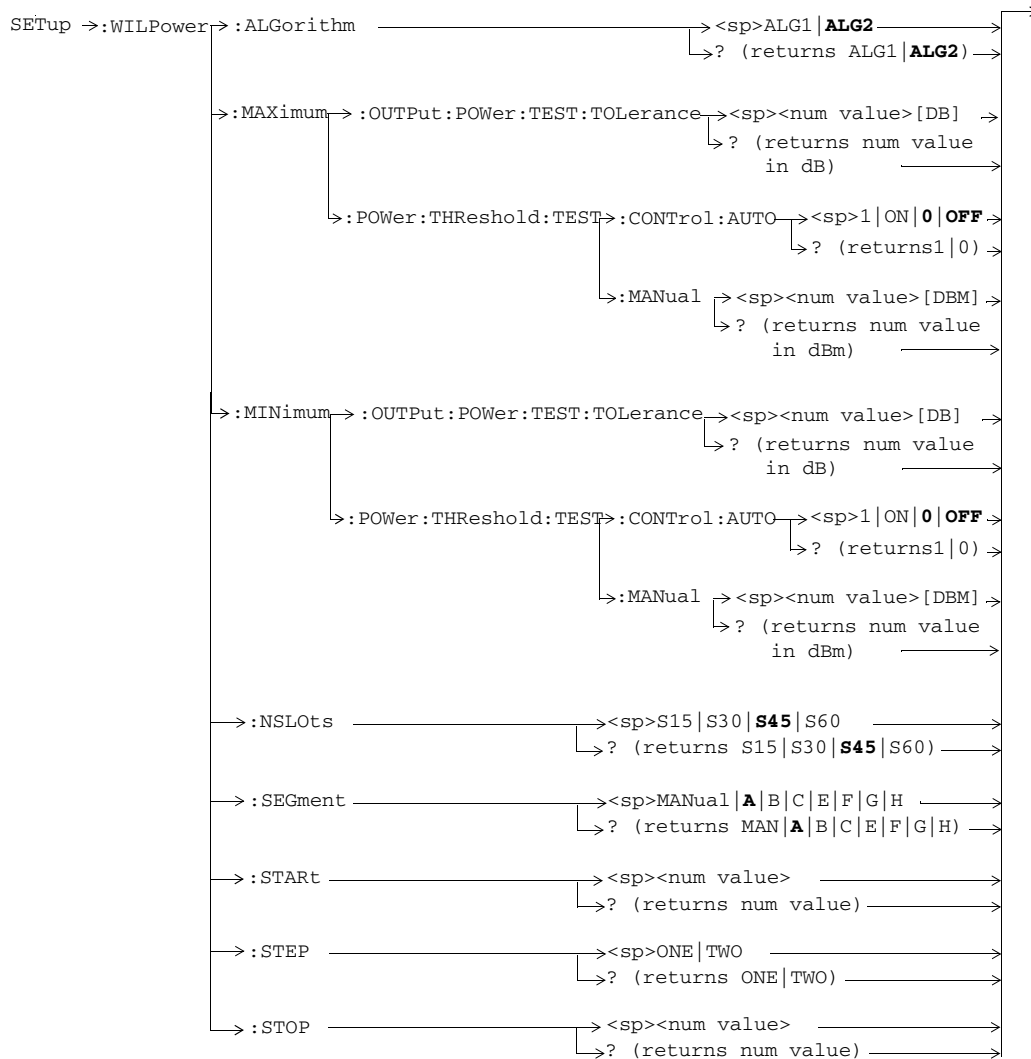




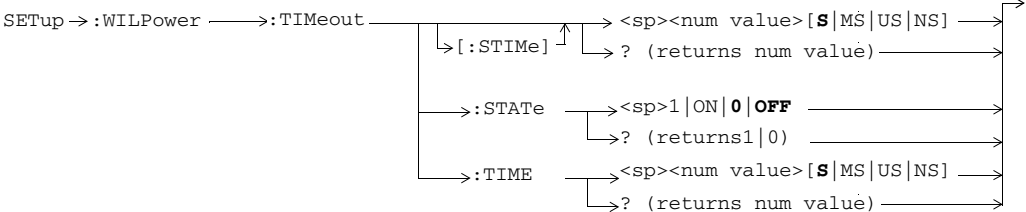
# This command is only applicable to a feature-licensed test application

## This setting/query return is only applicable to a feature-licensed test application

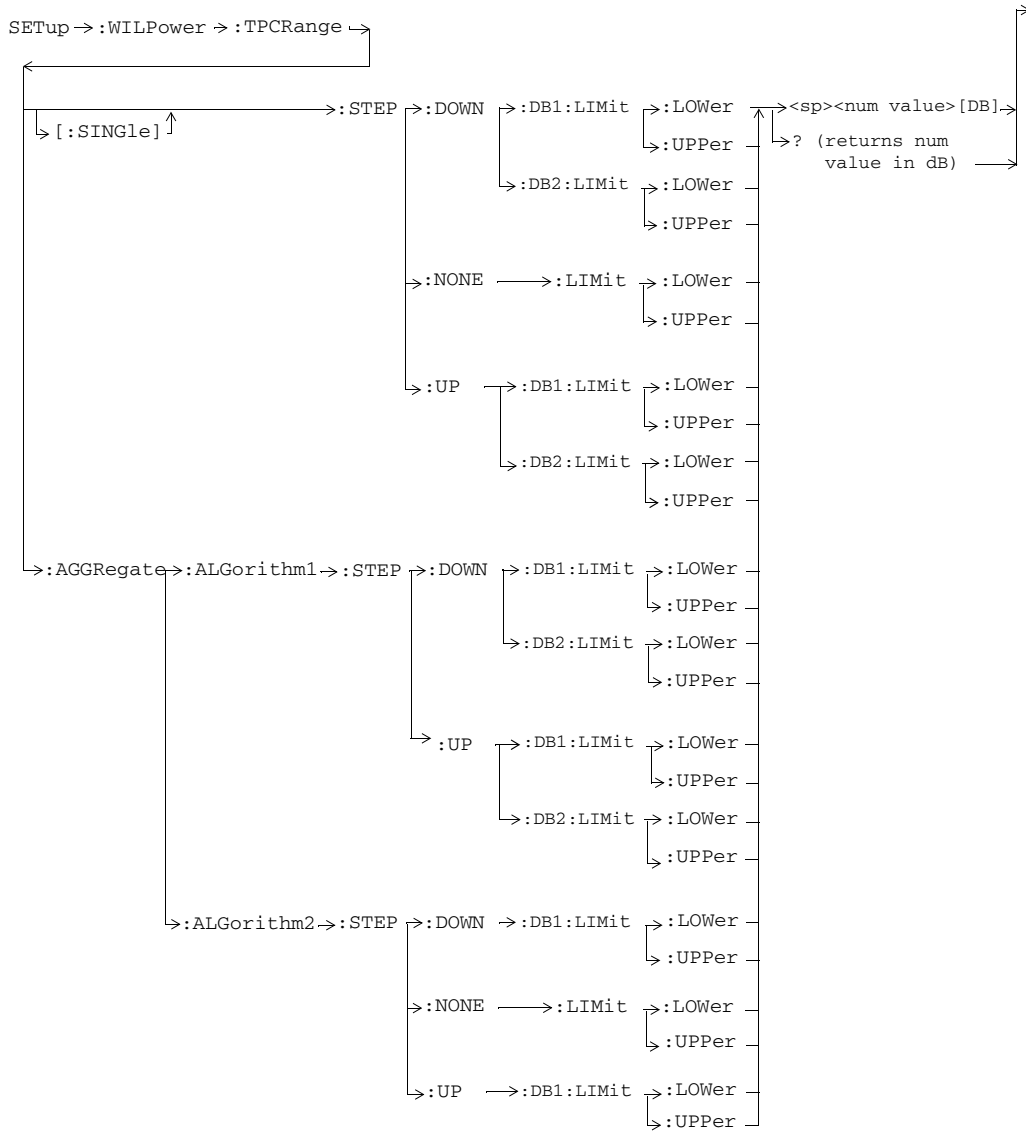
**SETup:WILPower**

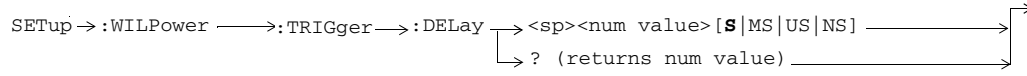




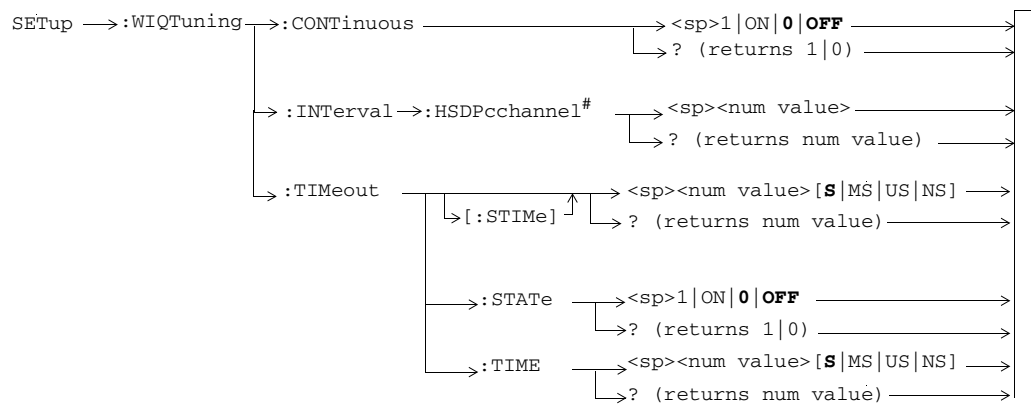


GPIB Syntax for E1963A and E6703C/D/T



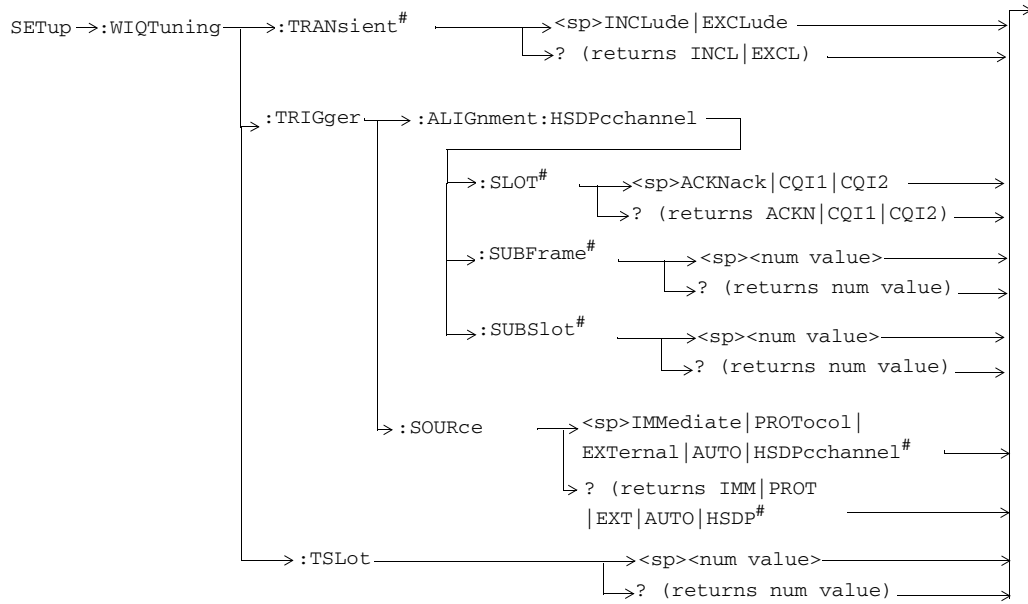


**SETup:WIQTuning**



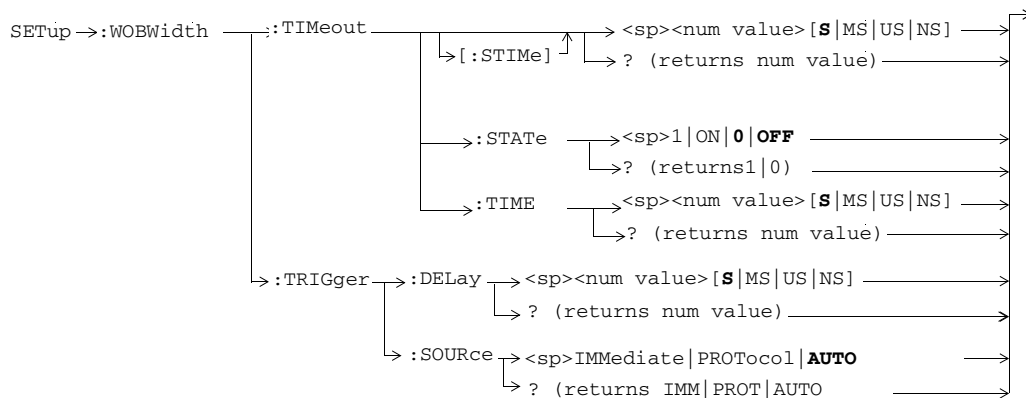
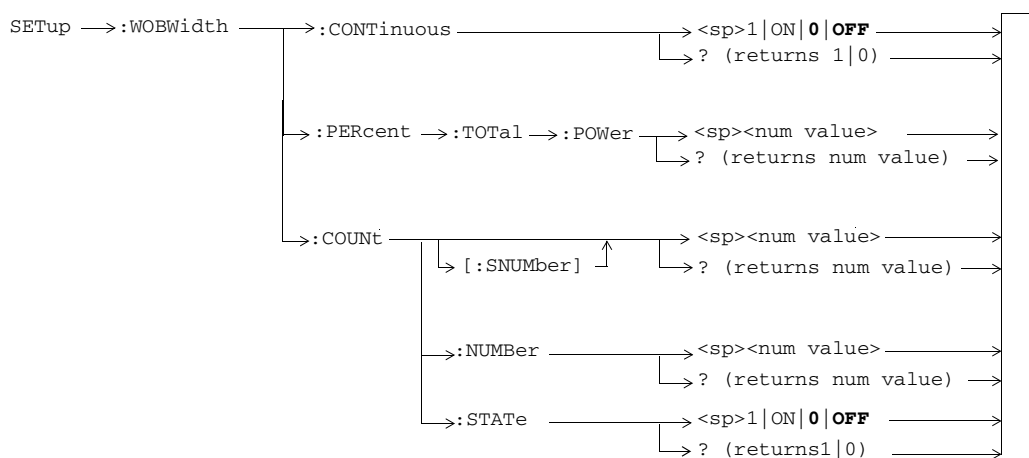
# Only applicable to the lab application or feature-licensed test application

GPIB Syntax for E1963A and E6703C/D/T

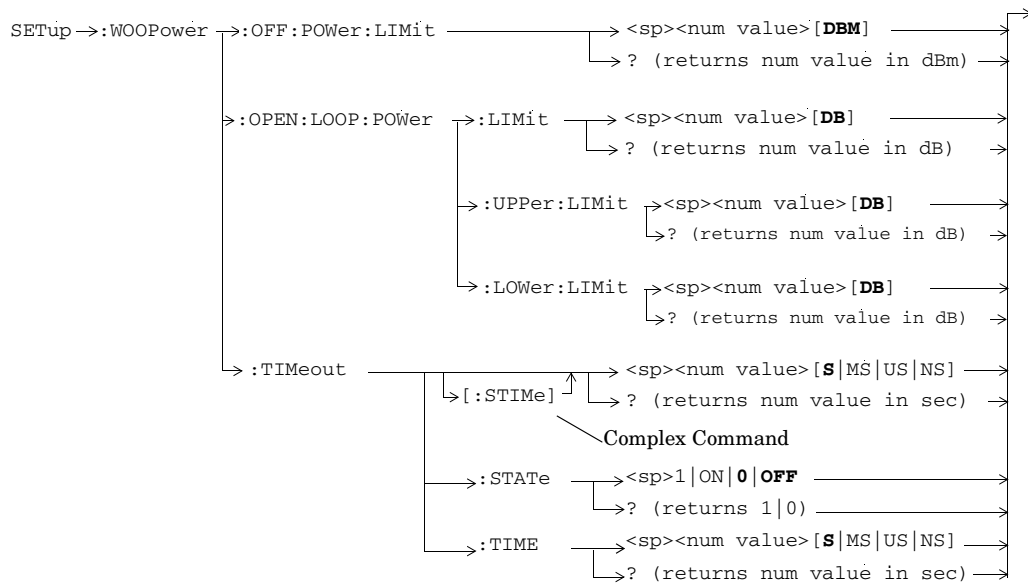


# Only applicable to the lab application or feature-licensed test application

**SETup:WOBWidth**

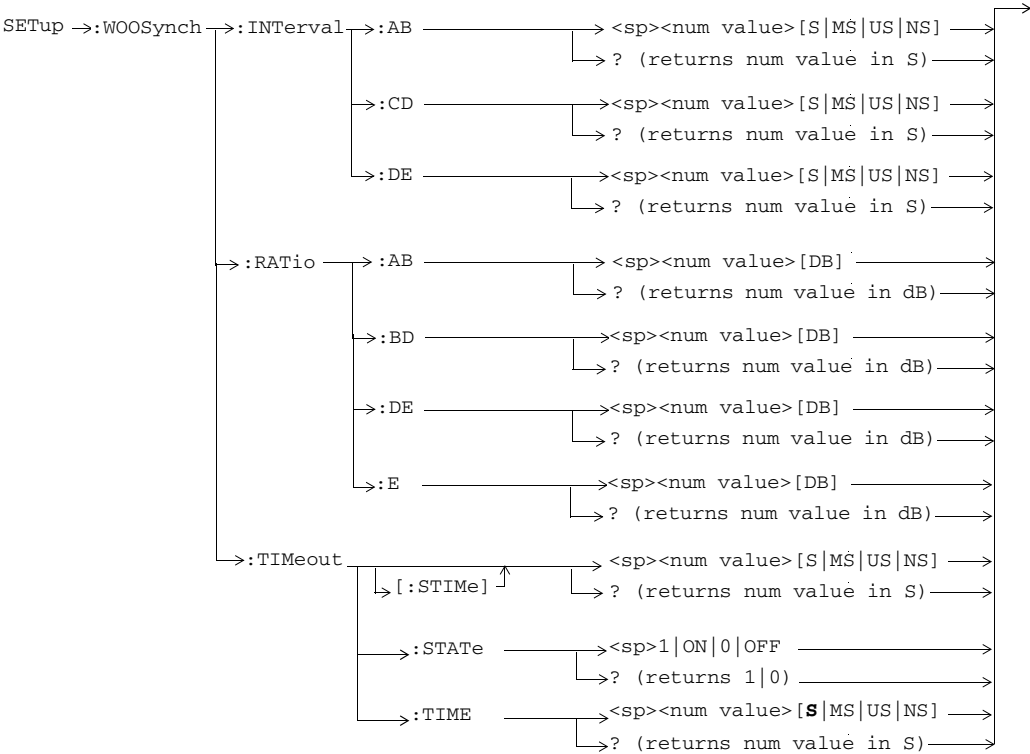


**SETup:WOOPower**

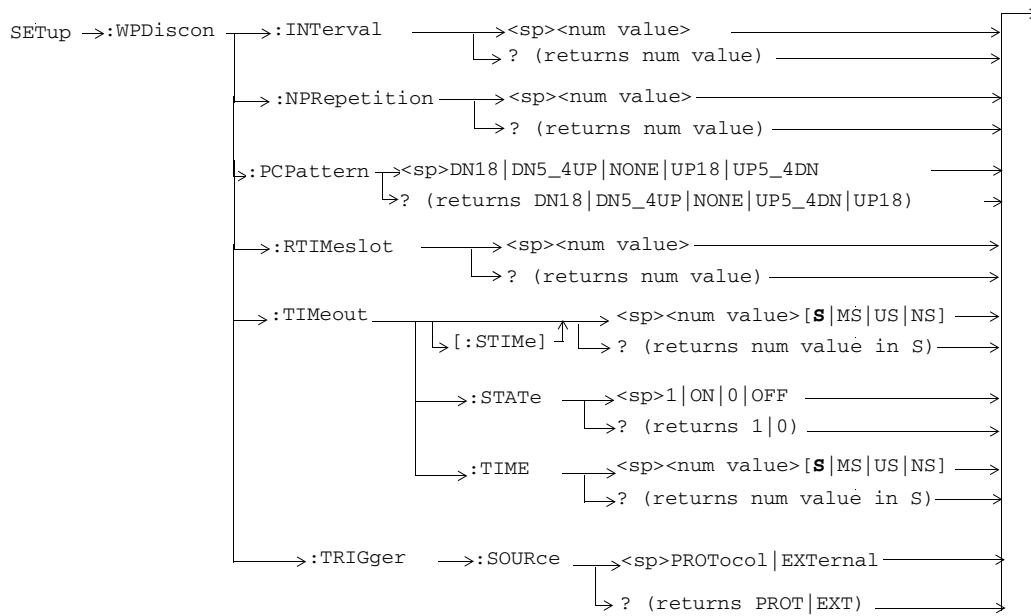


**SETup:WOOSynch**

This section is only applicable to the lab application.



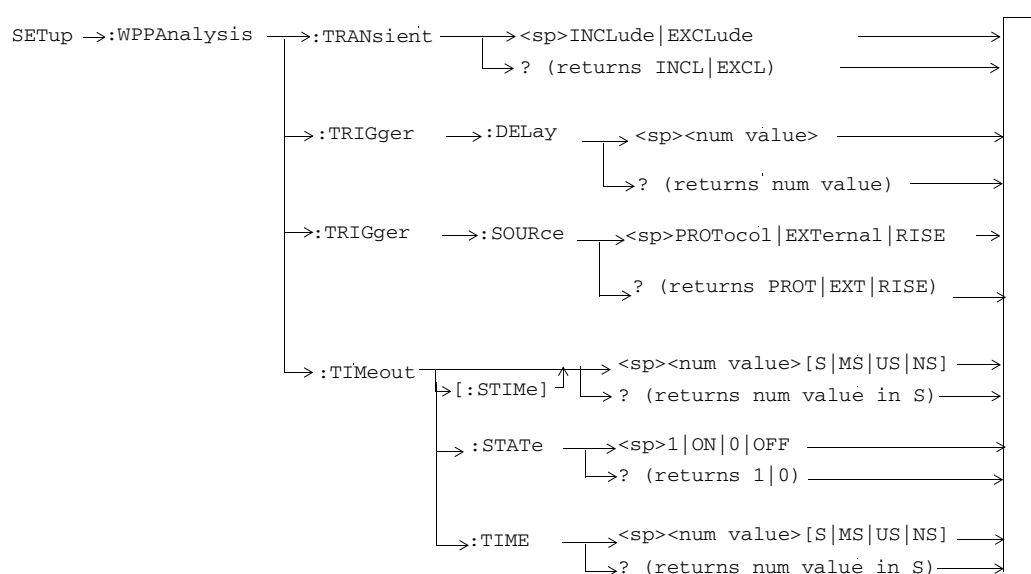
**SETup:WPDiscon**



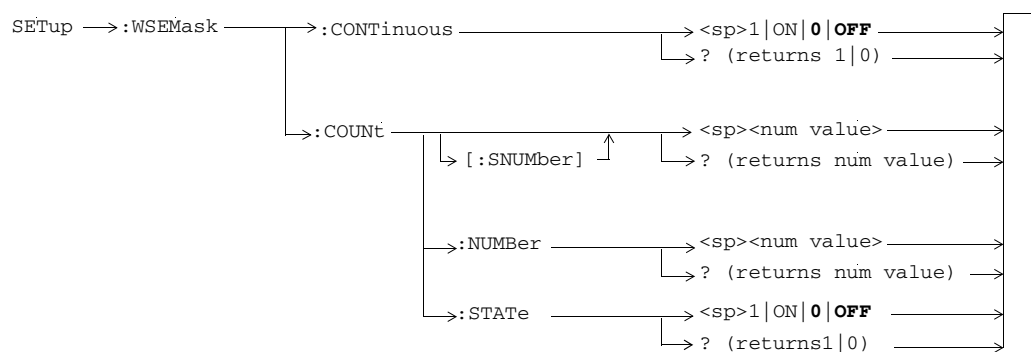


### SETup:WPPAnalysis

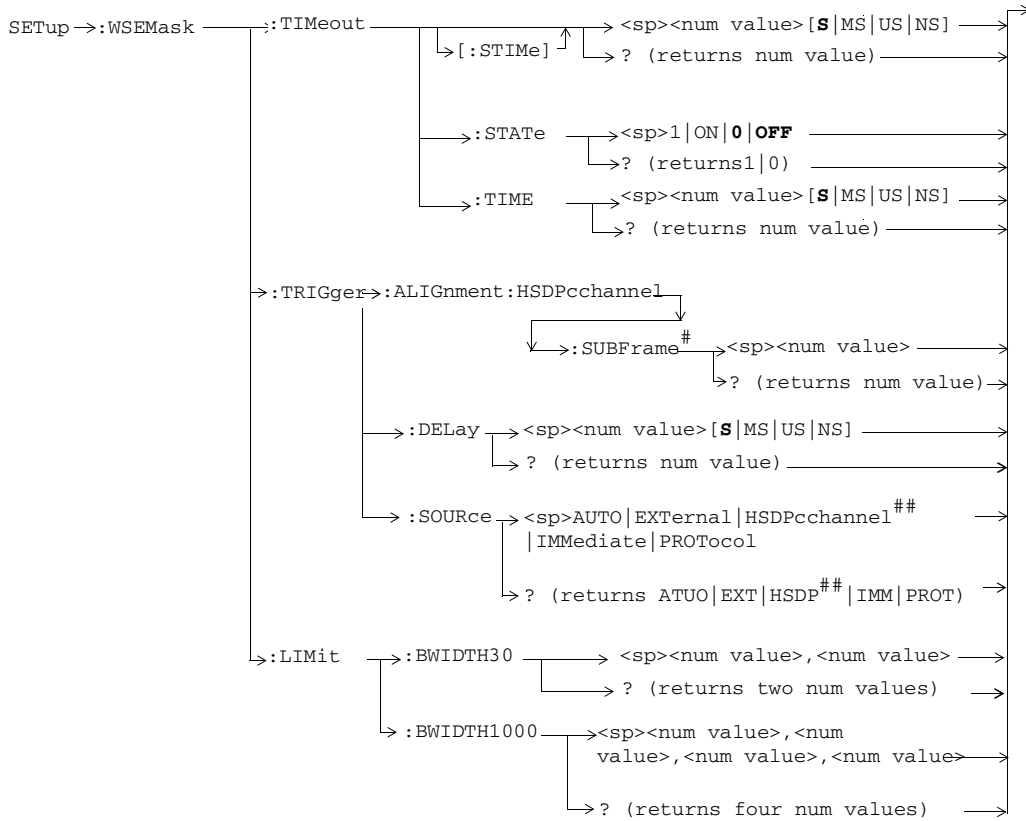
This section is only applicable to the lab application.



### SETup:WSEMask



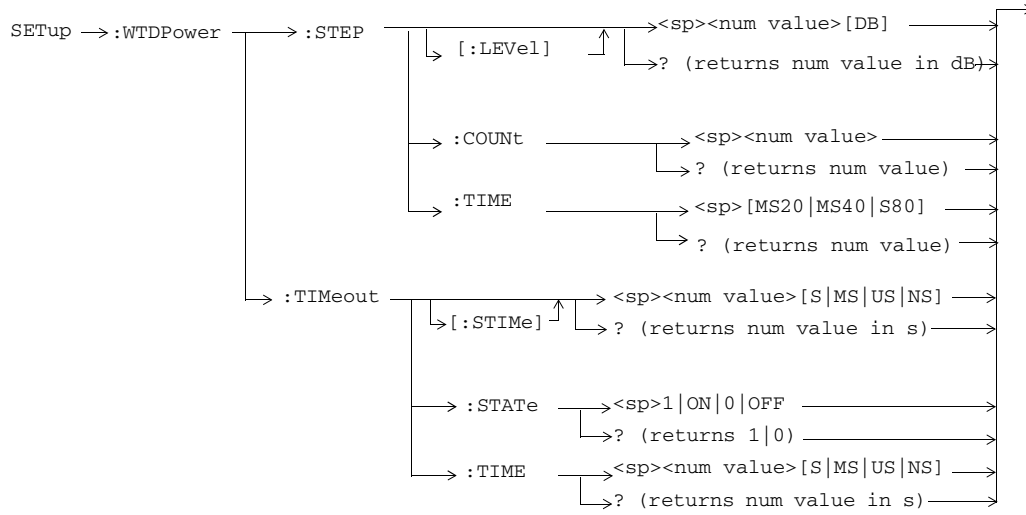
GPIB Syntax for E1963A and E6703C/D/T



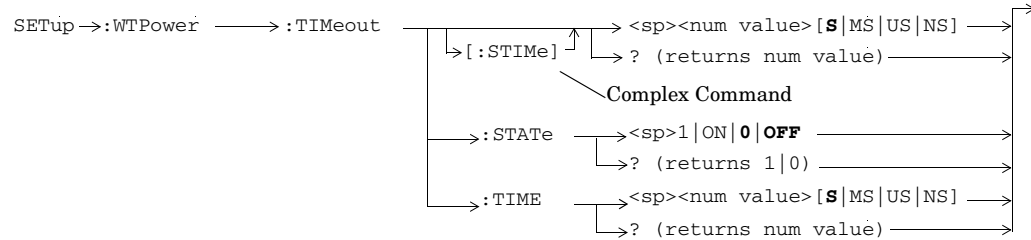
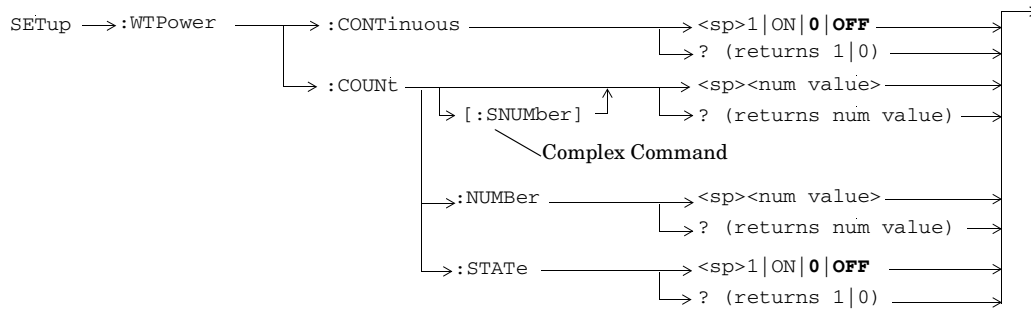
# This command is only applicable to a feature-licensed test application

## This setting/query return is only applicable to a feature-licensed test application

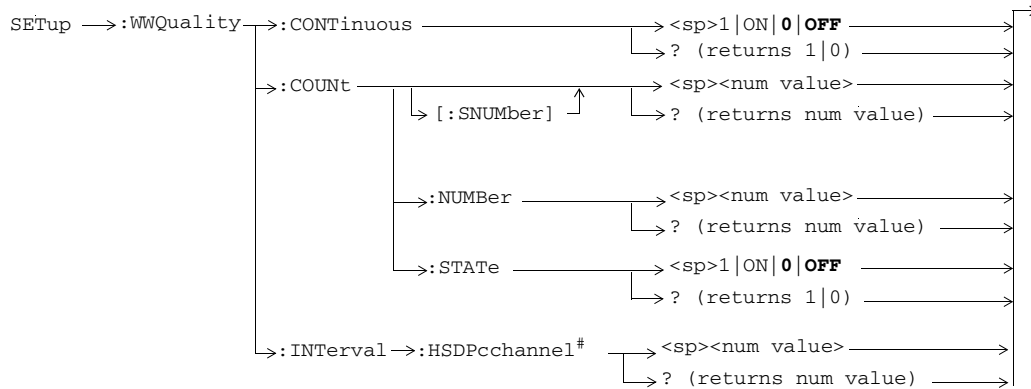
**SETup:WTDPower**



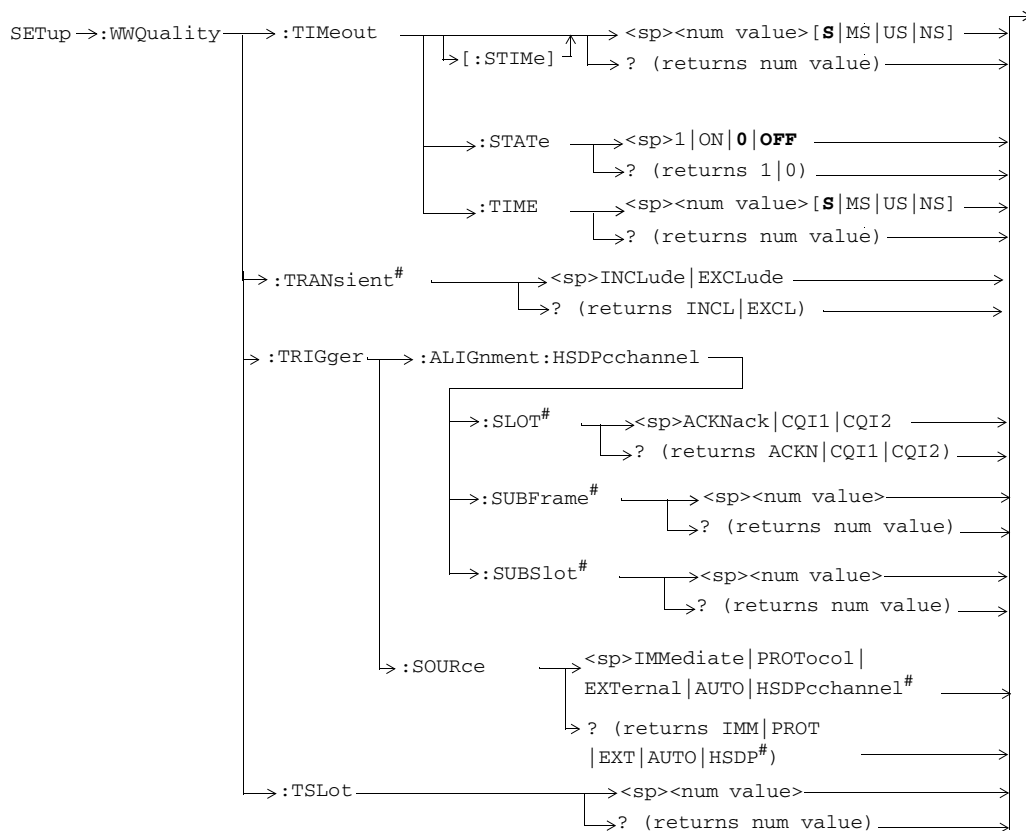
**SETup:WTPower**



**SETup:WWQuality**

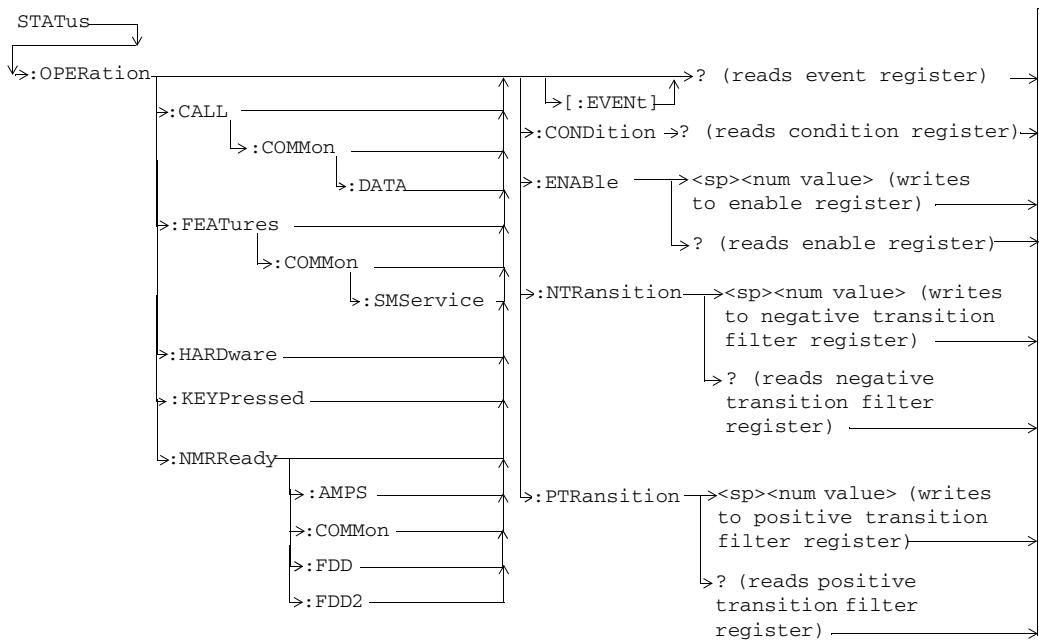


# Only applicable to the lab application or feature-licensed test application

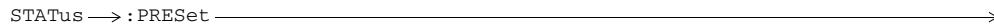


# Only applicable to the lab application or feature-licensed test application

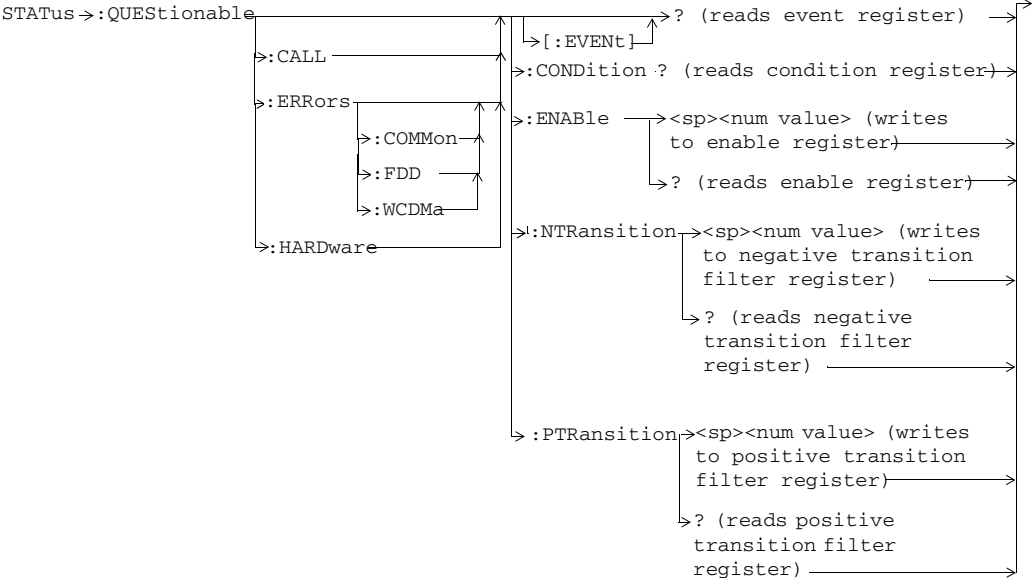
**STATus:OPERation**



**STATus:PRESet**

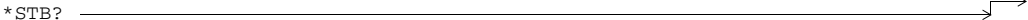


**STATUS:QUESTIONable**



**Status Byte Register**

\*STB?



### Standard Event Status Register

**\*ESR?**

\*ESR? → Reads and clears the Std Event Status Register. →

**\*ESE?**

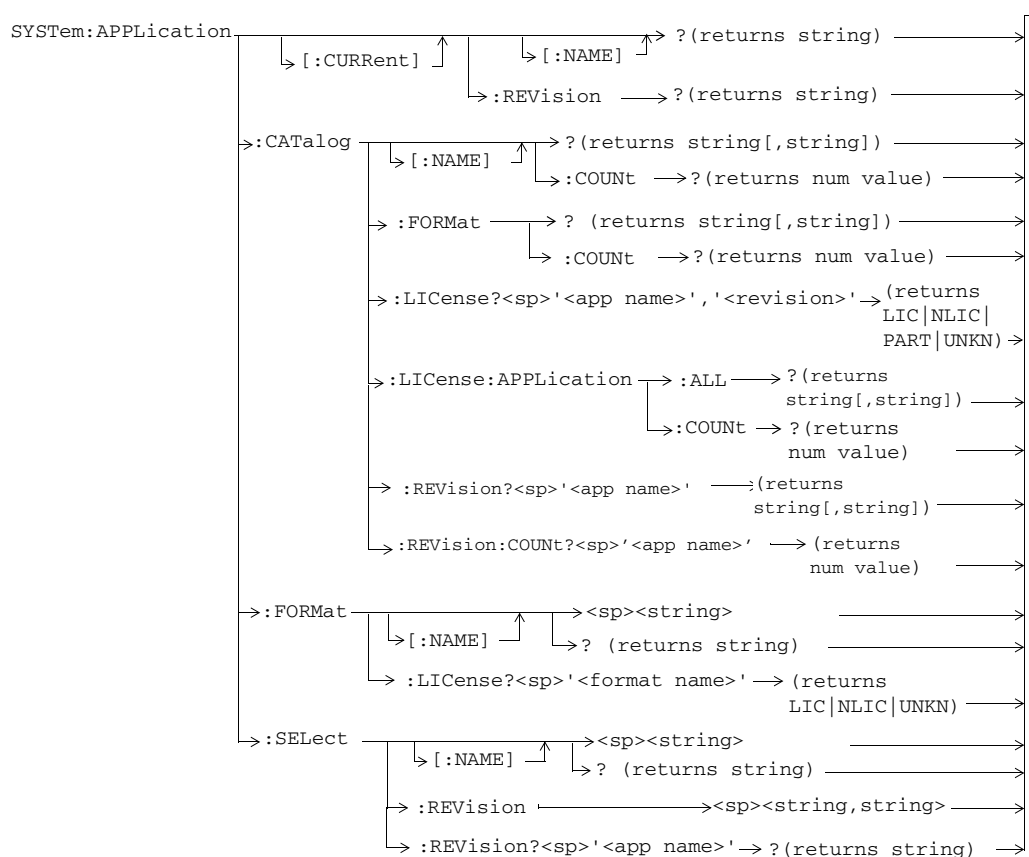
\*ESE? → Reads the Std Event Status Register Enable Register →

**\*ESE**

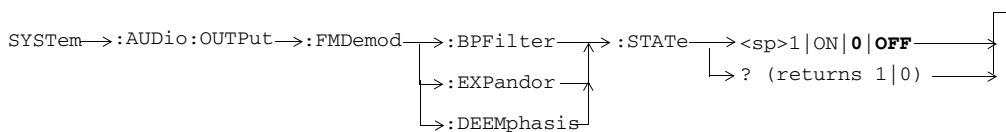
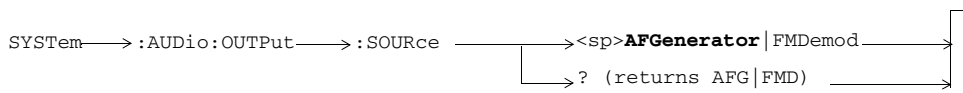
\*ESE → Writes to the Std Event Status Register Enable Register →



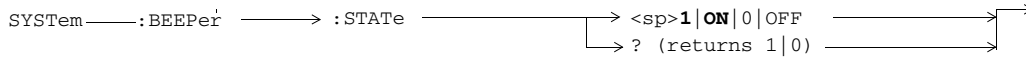
**SYSTem:APPLication**



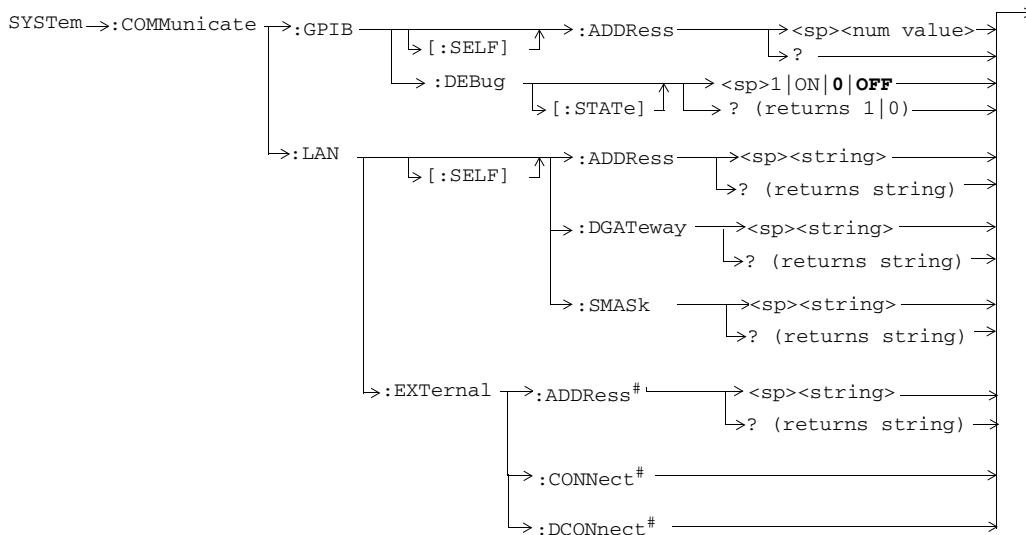
**SYSTEM:Audio**



**SYSTEM:BEEPer**



**SYSTEM:COMMunicate**

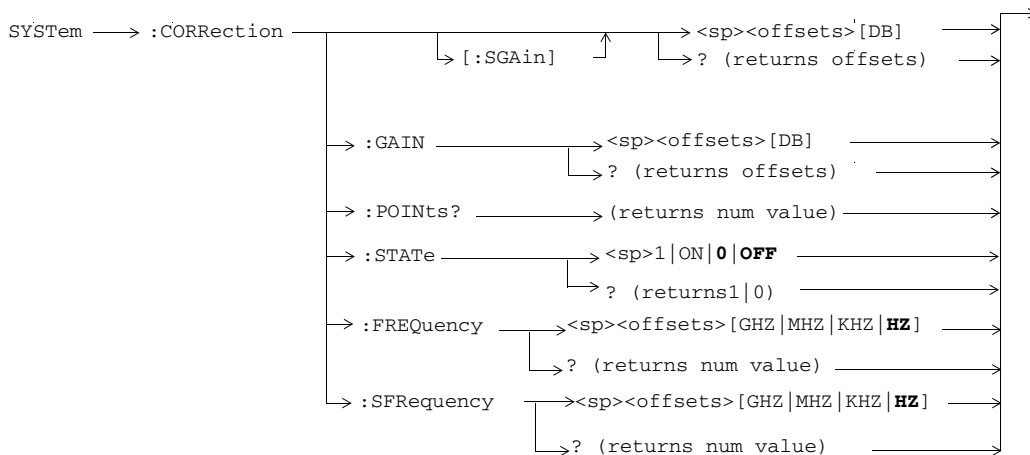


# This command is only applicable to the lab application or feature-licensed test application.

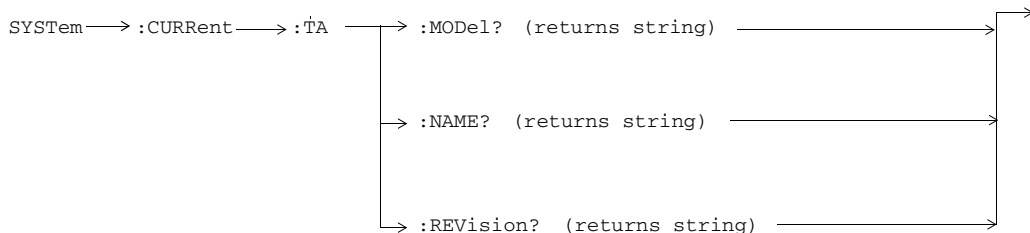
**SYSTEM:CONFigure**

SYSTEM — :CONFigure —> :INformation —> :HARDware —> :VERBose? —>

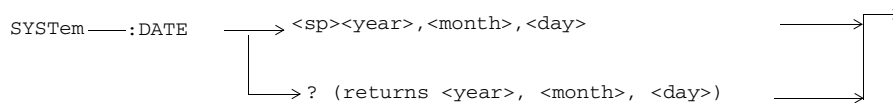
**SYSTEM:CORRection**



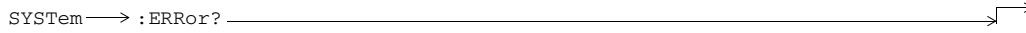
**SYSTEM:CURRent:TA**



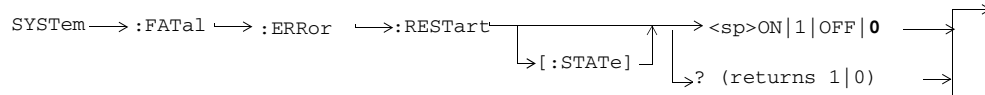
**SYSTEM:DATE**



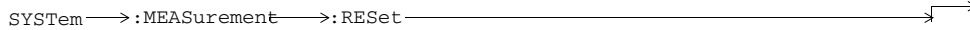
**SYSTEM:ERROR?**



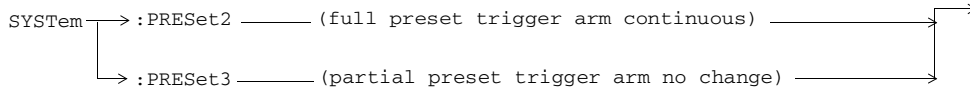
**SYSTEM:FATal**



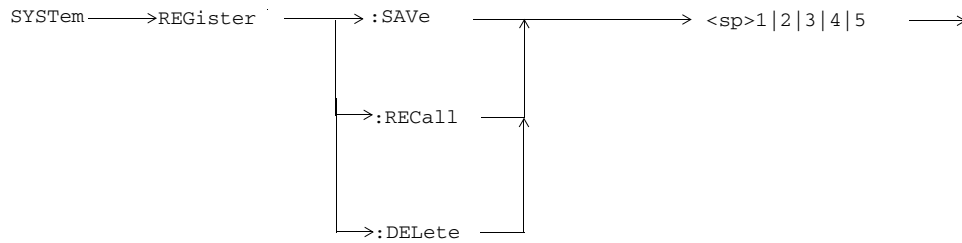
**SYSTEM:MEASurement:RESet**



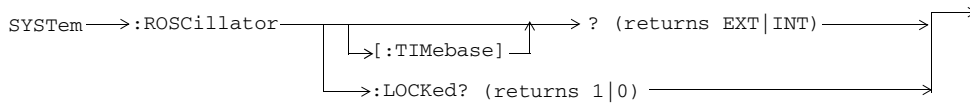
**SYSTEM:PRESet**



**SYSTEM:REGister**

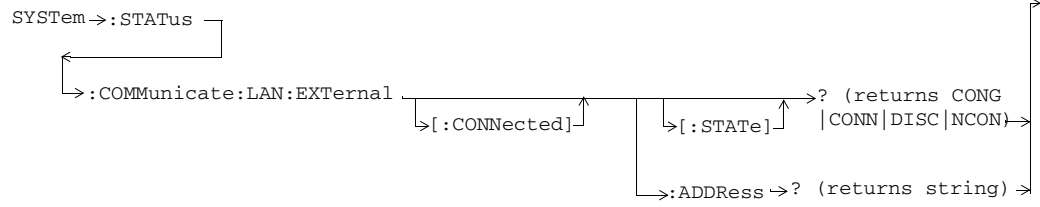


**SYSTEM:ROSCillator**

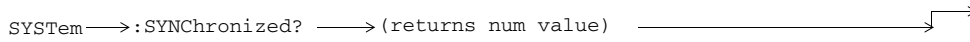


**SYSTem:STATus**

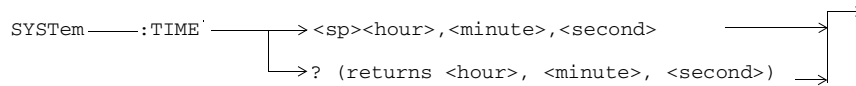
This section is only applicable to the lab application and to a test application with the required feature license.



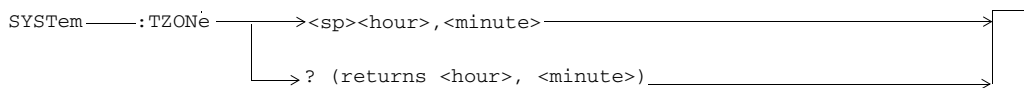
**SYSTem:SYNChronized**



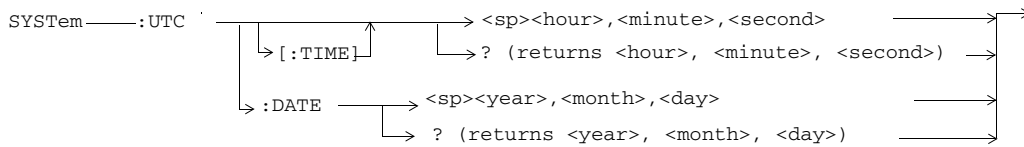
**SYSTem:TIME**



**SYSTem:TZONE**



**SYSTem:UTC**



**IEEE 488.2 Common Commands**

**Description**

**\*CLS** The \*CLS, clear status command, is defined in “IEEE Std 488.2-1992”, 10.3. This command will also clear and close the error message screen on the test set’s display.

**\*ESE** The \*ESE, standard event status enable command, is defined in “IEEE Std 488.2-1992”, 10.10.

**\*ESE?** The \*ESE?, standard event status enable query, is defined in “IEEE Std 488.2-1992”, 10.11.

**\*ESR?** The \*ESR?, standard event status register query, is defined in “IEEE Std 488.2-1992”, 10.12.

**\*IDN?** The \*IDN?, identification query, is defined in “IEEE Std 488.2-1992”, 10.14. \*IDN? is used to retrieve information about the test set in ASCII format.

\*IDN?, returns ASCII codes 32 through 126 excluding comma and semicolon in four comma separated fields. Field 1 returns the manufacturer, field 2 returns the instrument model number, field 3 returns the serial number, field 4 returns 0.

**\*OPC** The \*OPC, operation complete command, is defined in “IEEE 488.2-1992”, 10.18. \*OPC causes the test set to continuously sense the No Operation Pending flag. When the No Operation Pending flag becomes TRUE, the OPC event bit in the standard event status register (ESR) is set to indicate that the state of all pending operations is completed. The \*OPC common command is not recommended for use as an overlapped command.

**\*OPC?** The \*OPC?, operation complete query, is defined in “IEEE Std 488.2-1992”, 10.19. The \*OPC? query allows synchronization between the controller and the test set using either the message available (MAV) bit in the status byte, or a read of the output OPC?. The \*OPC? query does not effect the OPC event bit in the Standard Event Status Register (ESR). The \*OPC? common command is not recommended for use as an overlapped command.

**\*OPT?** The \*OPT?, option identification query, is defined in “IEEE Std 488.2-1992”, 10.20. Each option will have a unique name, that name will be returned with the query.

**\*RST** The \*RST, full preset command, is defined in “IEEE Std 488.2-1992”, 10.32. \*RST is the recommended command when performing a full preset on the test set. A \*RST restores the majority of settings to their default values.

- \*RST sets trigger arm to single
- PRESet2 sets trigger arm to continuous

**\*SRE** The \*SRE, service request enable command, is defined in “IEEE Std 488.2-1992”, 10.34. The parameter range for this command is 0 through 255.

**\*SRE?** The \*SRE?, service request enable query, is defined in “IEEE Std 488.2-1992”, 10.35. Values returned by this query range from 0 through 255.

**\*STB?** The \*STB?, read status byte query, is defined in “IEEE Std 488.2-1992”, 10.36. Values returned by this query range from 0 through 255.

**\*WAI** The \*WAI, wait-to-continue command, is defined in “IEEE Std 488.2-1992”, 10.39. The \*WAI command prevents the test set from executing any further commands or queries until all pending operation flags are false. The \*WAI common command is not recommended for use as an overlapped command.

GPIB Syntax for E1963A and E6703C/D/T



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