

GPIB Command Syntax

for

E1966A 1xEV-DO Terminal Test Application Revision A.06

E6706A 1xEV-DO Lab Application Revision A.03

E6706T Special High Data Rate 1xEV-DO Lab Application T.00

1000-1923

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www.agilent.com/find/E1966A

www.agilent.com/find/E6706A

www.agilent.com/find/E6706T



Agilent Technologies

NOTE: *This guide is applicable to the E6706T, however there are a few exceptions which can be found in the Online User's Guide available at <http://wireless.agilent.com/rfcomms/refdocs/1xevo/default.php>*

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Agilent Technologies, Inc.
Learning Products Department
24001 E. Mission
Liberty Lake, WA 99019-9599
U.S.A.

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GPIB Syntax for E1966A and E6706A/T

Diagram Conventions

Description

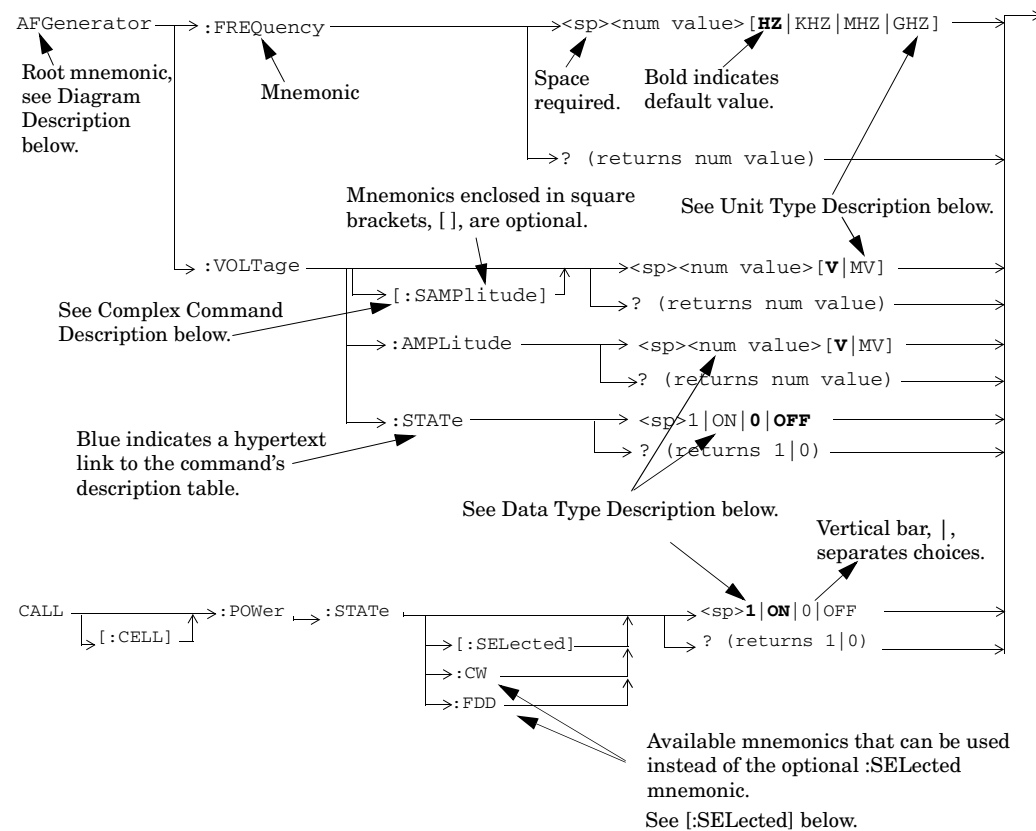


Diagram Description

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

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.

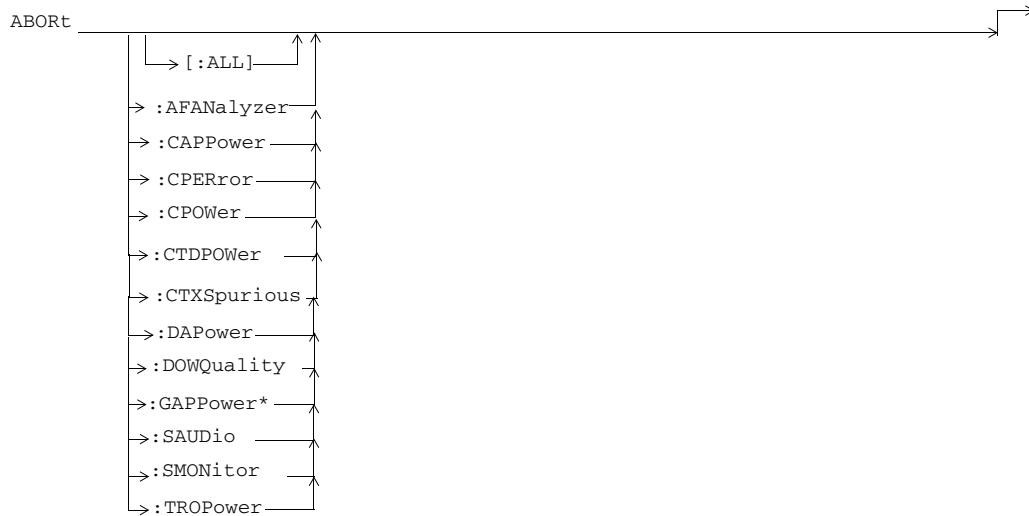
Description	Optional Units	Example
Amplitude (linear)	V MV	To set the spectrum monitor's timeout interval to 20 seconds, use any of the following formats: SETup:SMONitor:TIMEout:TIME 20 SETup:SMONitor:TIMEout:TIME 20S SETup:SMONitor:TIMEout:TIME 20 S
Power (logarithmic)	DBM DBW	
Level (relative)	DB	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

[: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.

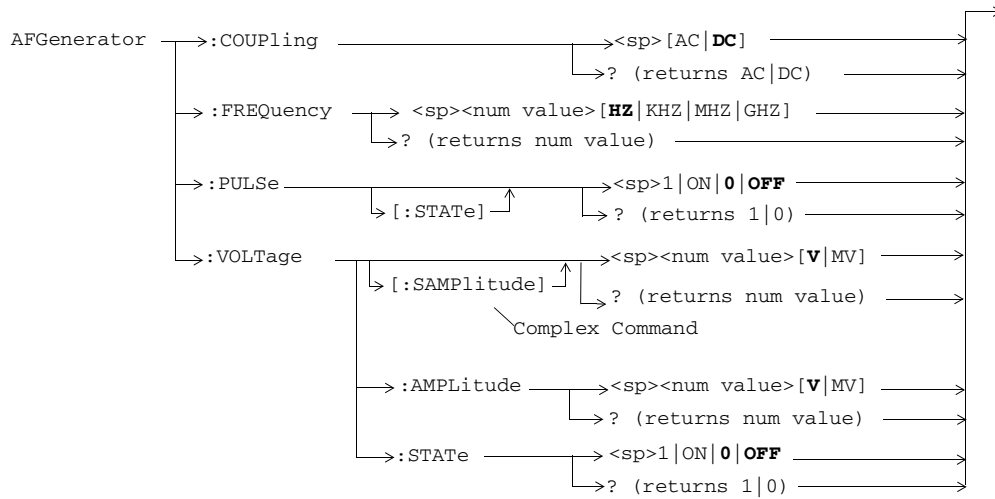
CALL[:CELL]:POWER:AMPLitude[:SElected]		Available mnemonics that can be use instead of the optional [:SElected] mnemonic.
CALL[:CELL]:POWER:AMPLitude:(CWIFDD) ←		
Function	Sets/queries the desired cell power level. (See "Cell Pow information about desired versus current power levels.) The optional [:SElected] 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"> FDD: -165 dBm/3.84MHz to +37 dBm/3.84MHz CW: -177 dBm to +40 dBm 	

ABORt

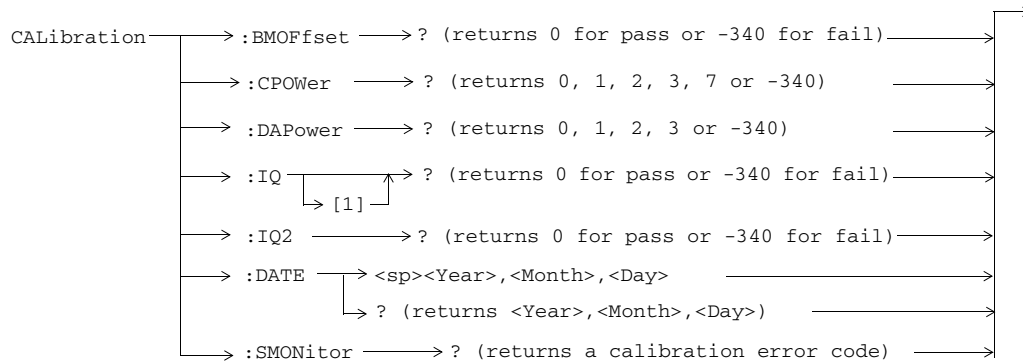


* This command is only applicable to the lab application.

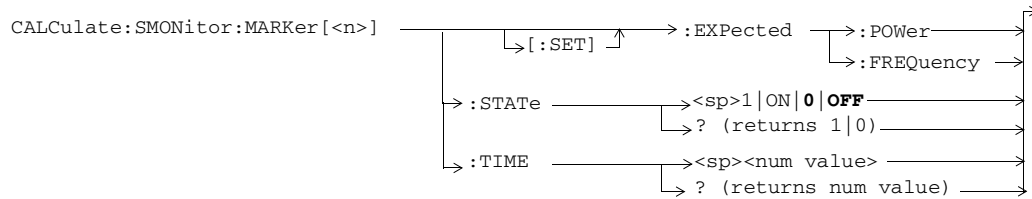
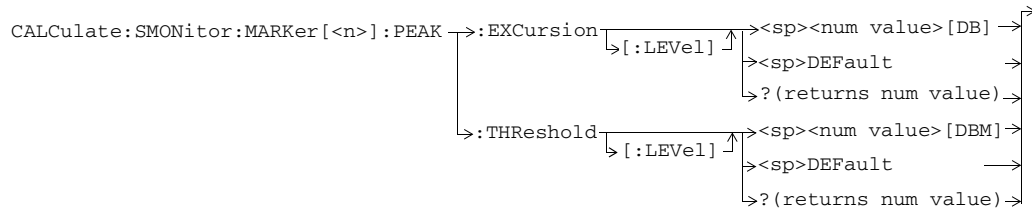
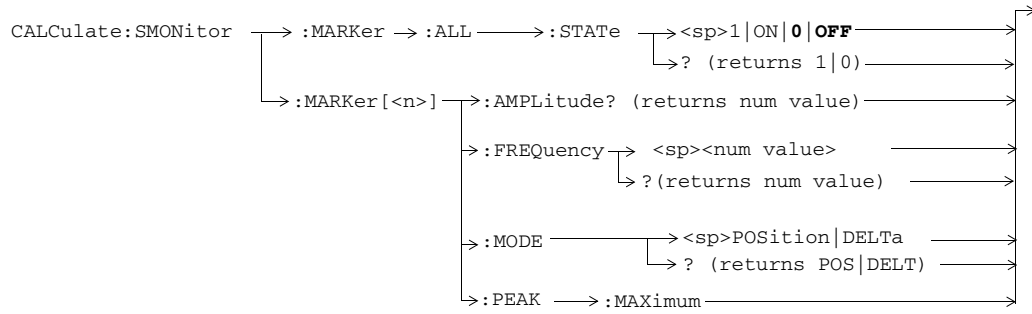
AFGenerator



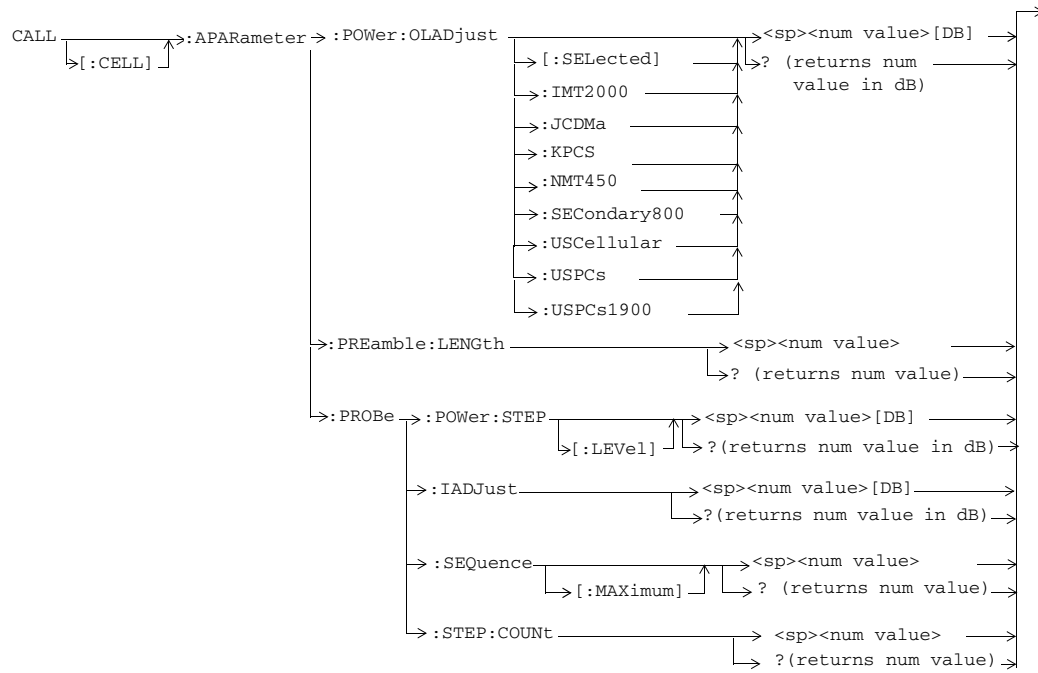
CALibration



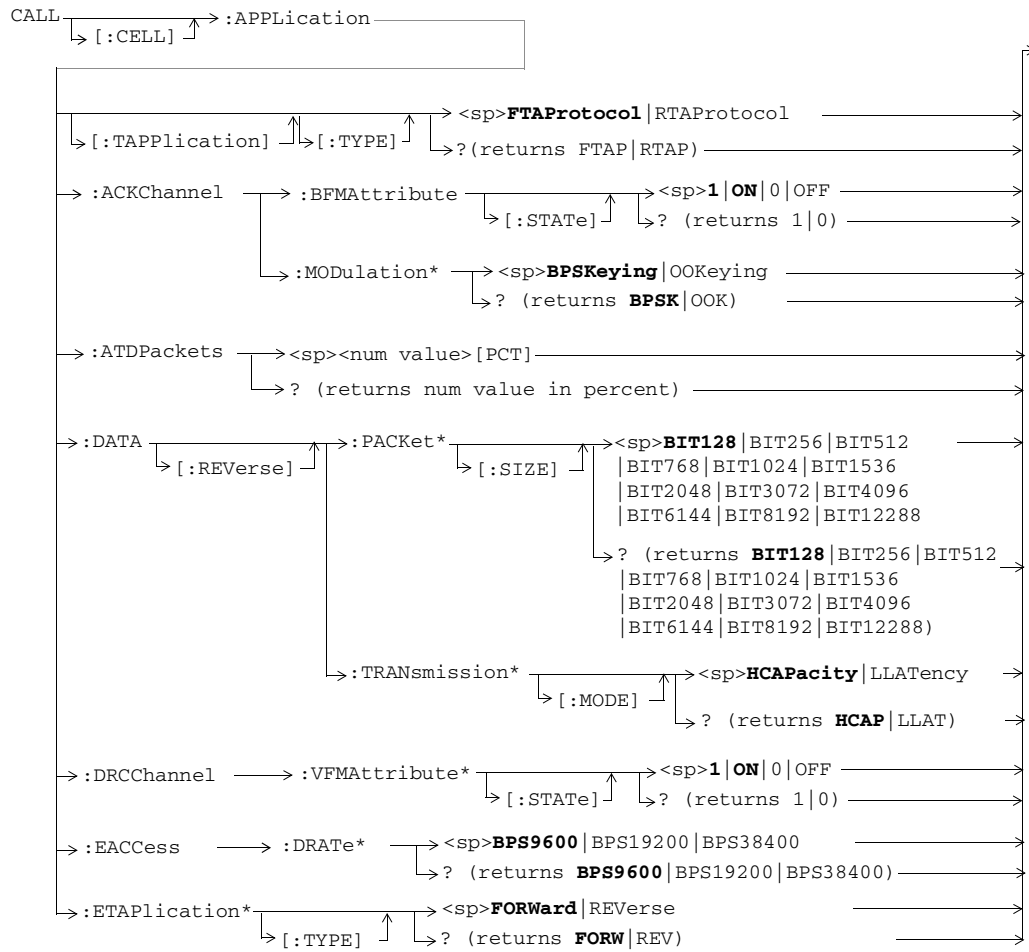
CALCulate:SMONitor



CALL:APARAmeter

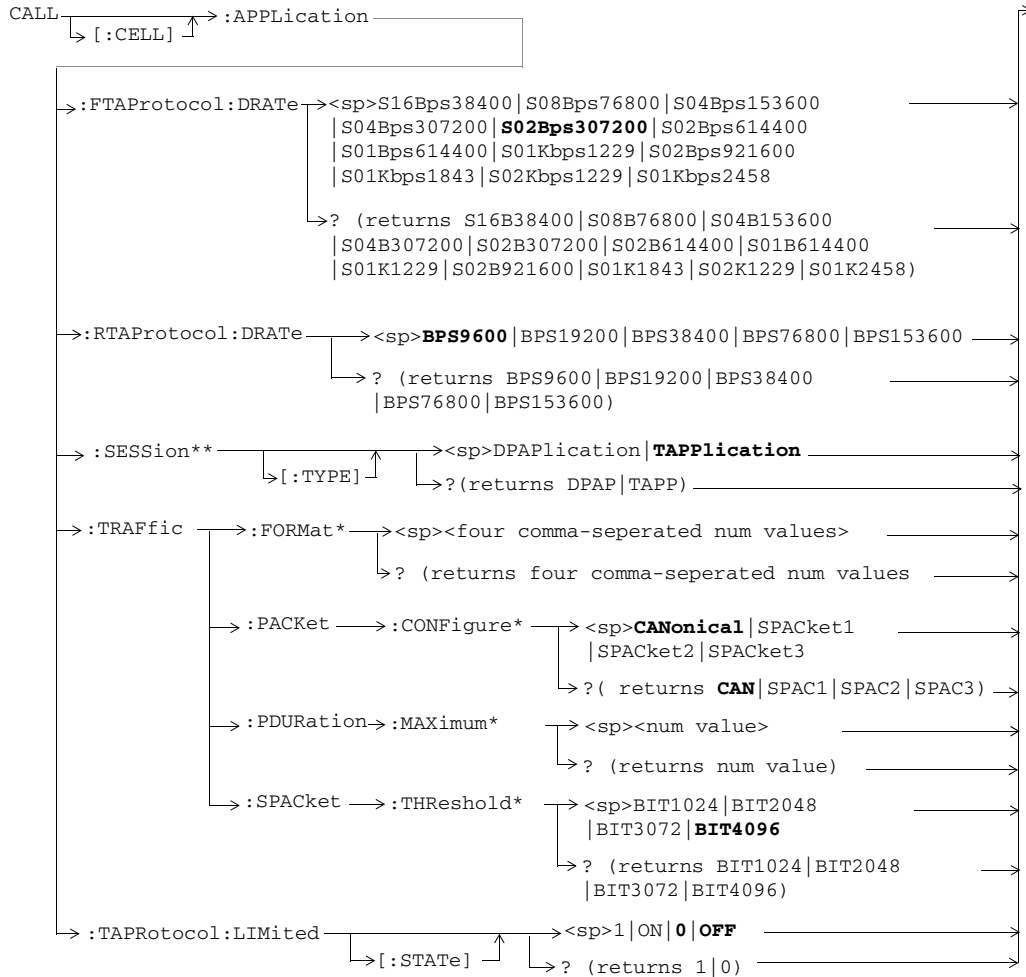


CALL:APPLiCation



* Only applicable to the lab application and feature-licensed test application.

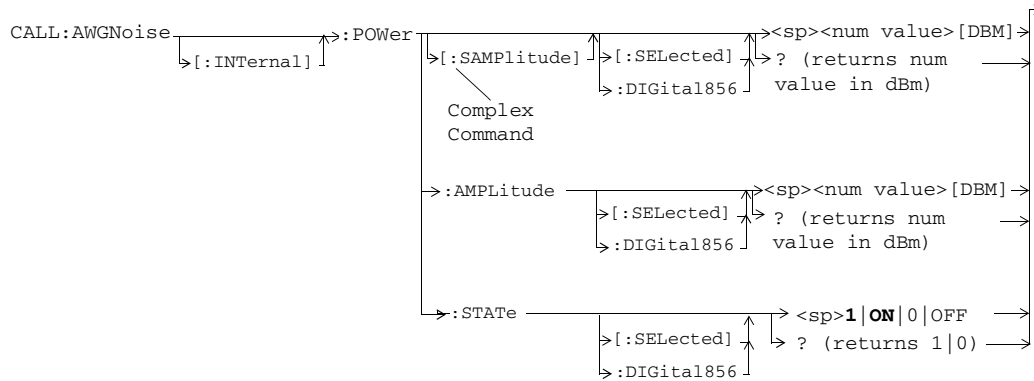
GPIB Syntax for E1966A and E6706A/T



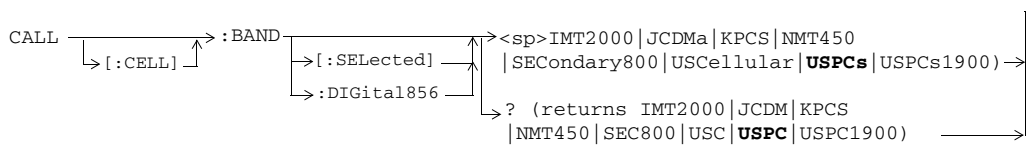
* Only applicable to the lab application and feature-licensed test application.

** Only applicable to the lab application.

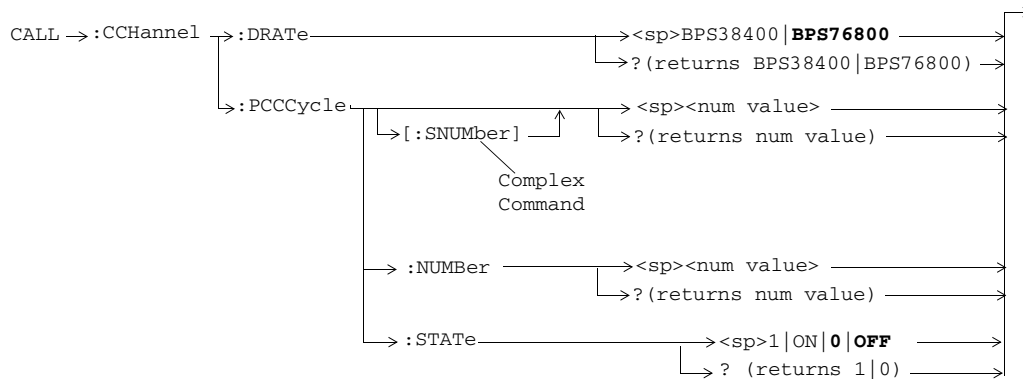
CALL:AWGNoise



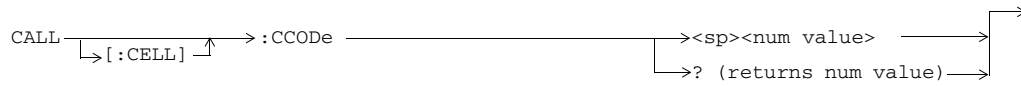
CALL:BAND



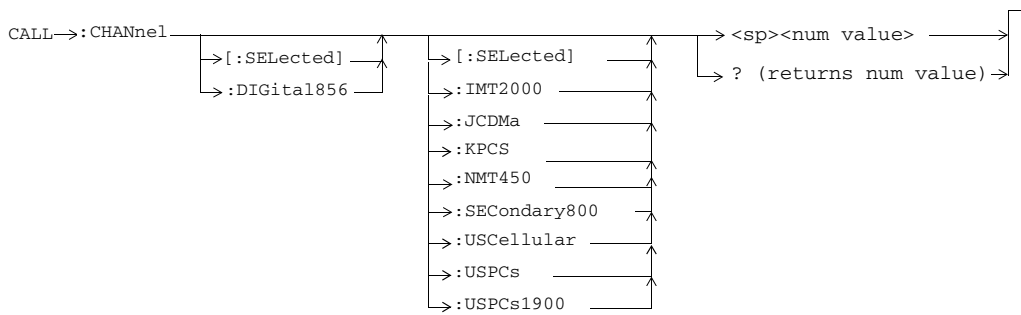
CALL:CCHannel



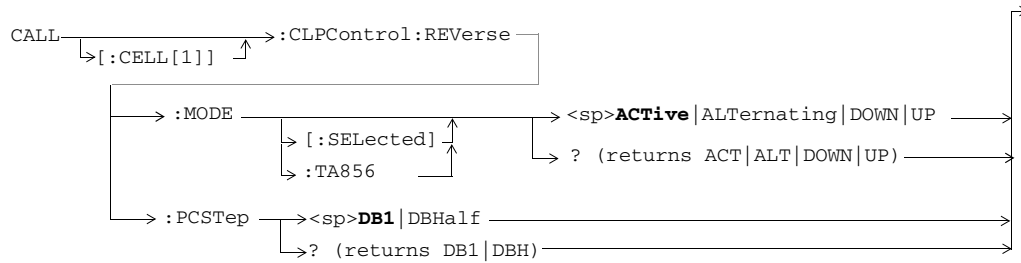
CALL:CCODE



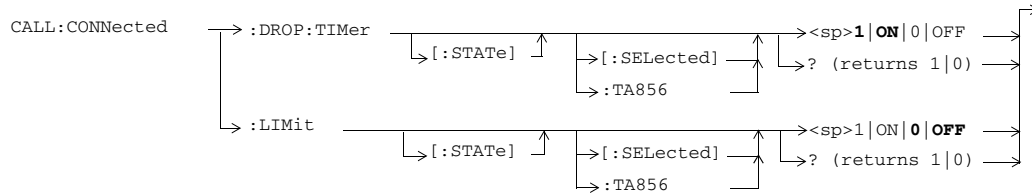
CALL:CHANnel



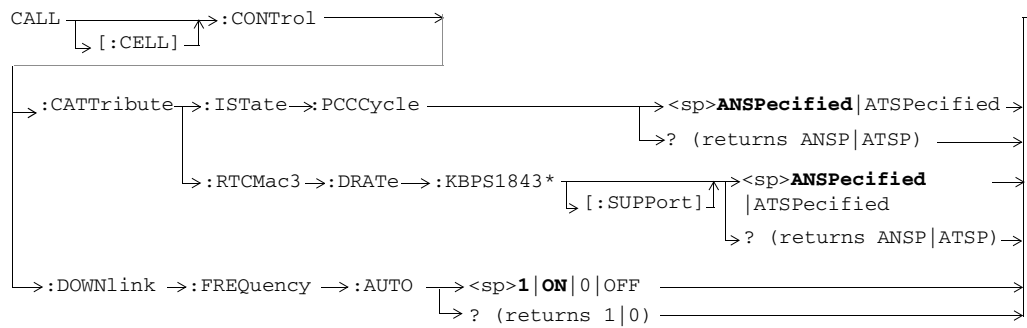
CALL:CLPControl



CALL:CONNEcted

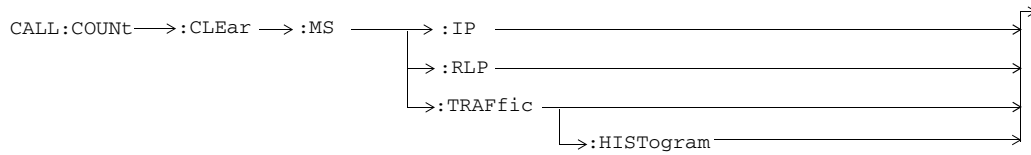


CALL:CONTRol

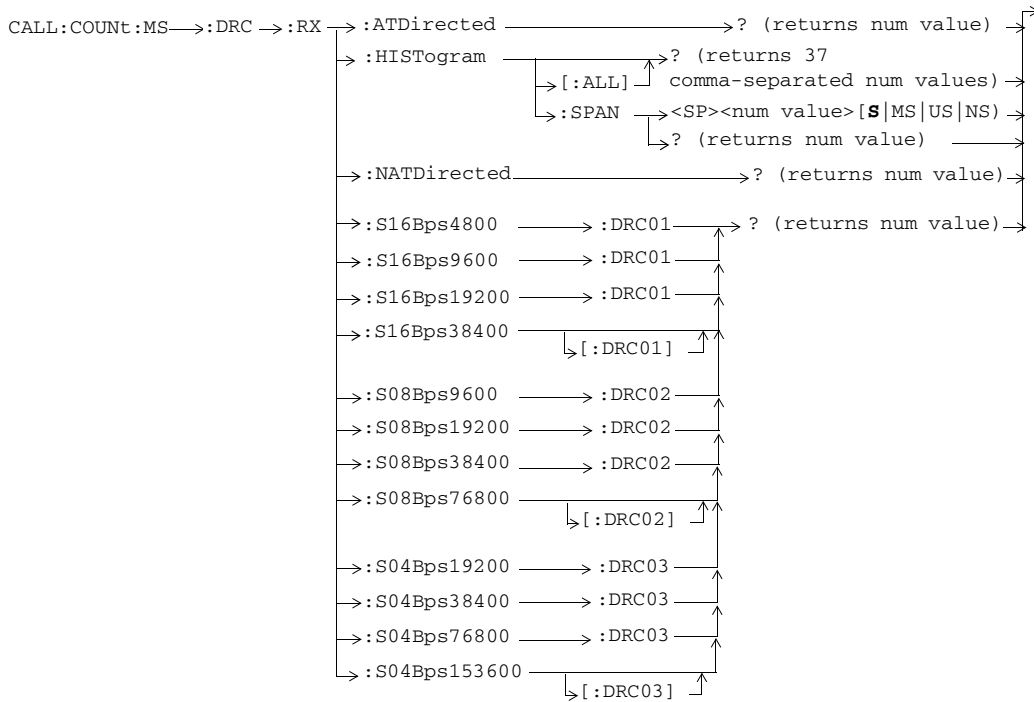


* Only applicable to the lab application and feature-licensed test application.

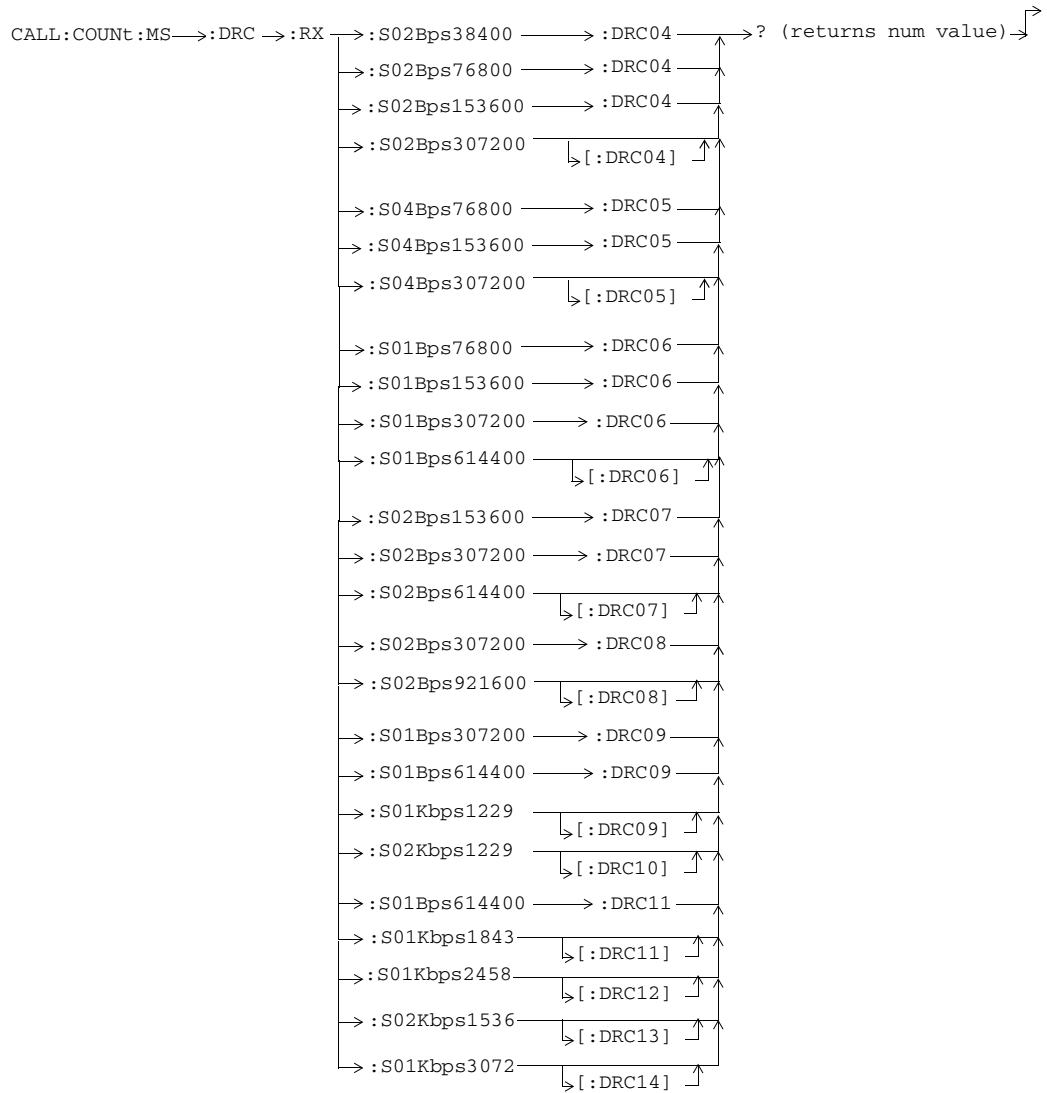
CALL:COUNT



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

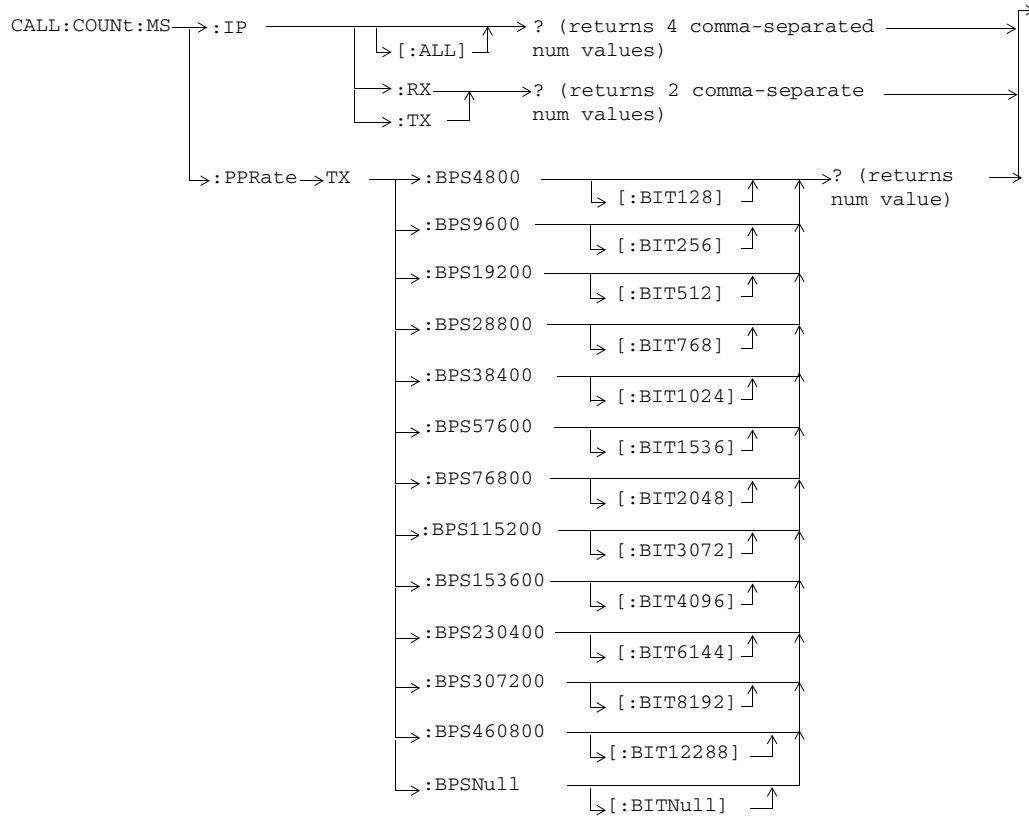


All of the commands shown in this diagram are only applicable to the lab application.

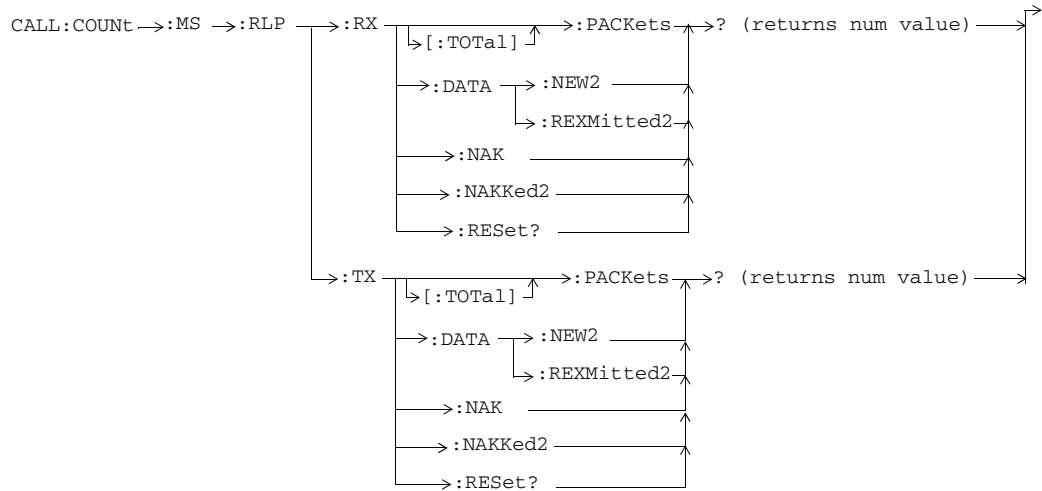


All of the commands shown in this diagram are only applicable to the lab application.

GPIB Syntax for E1966A and E6706A/T

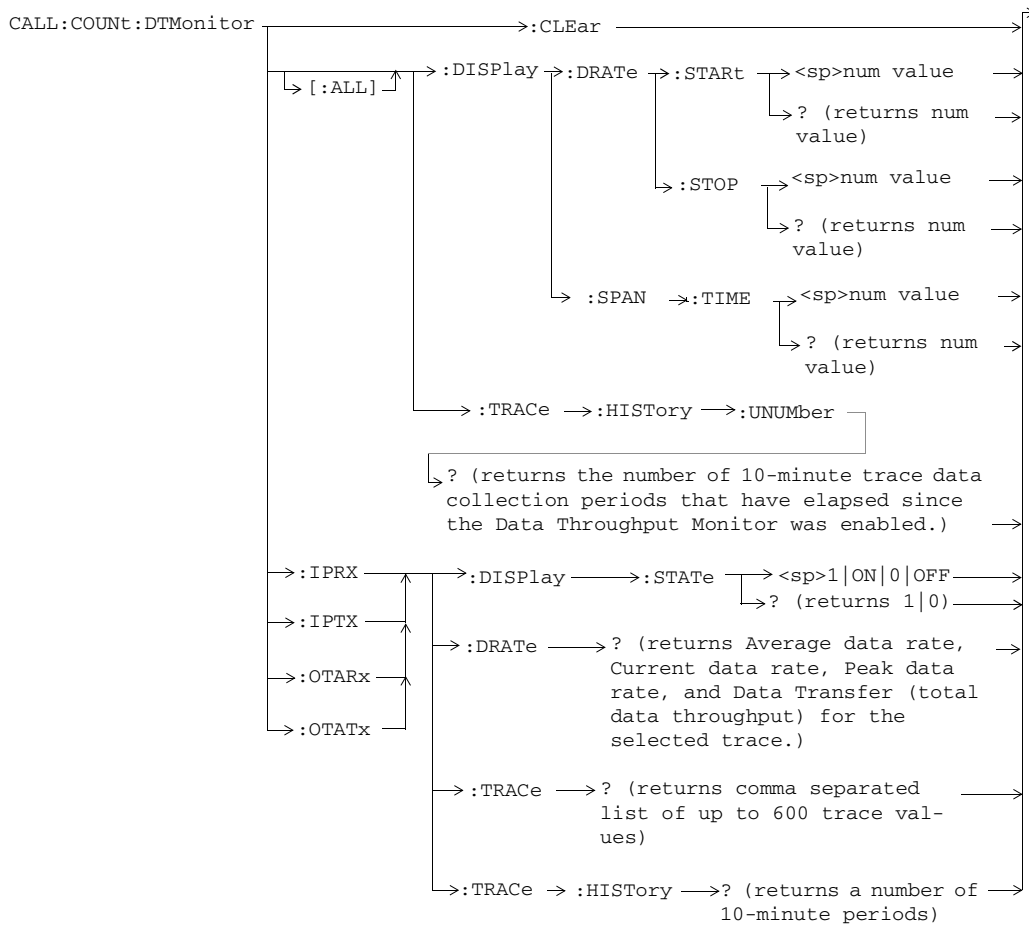


All of the commands shown in this diagram are only applicable to the lab application.



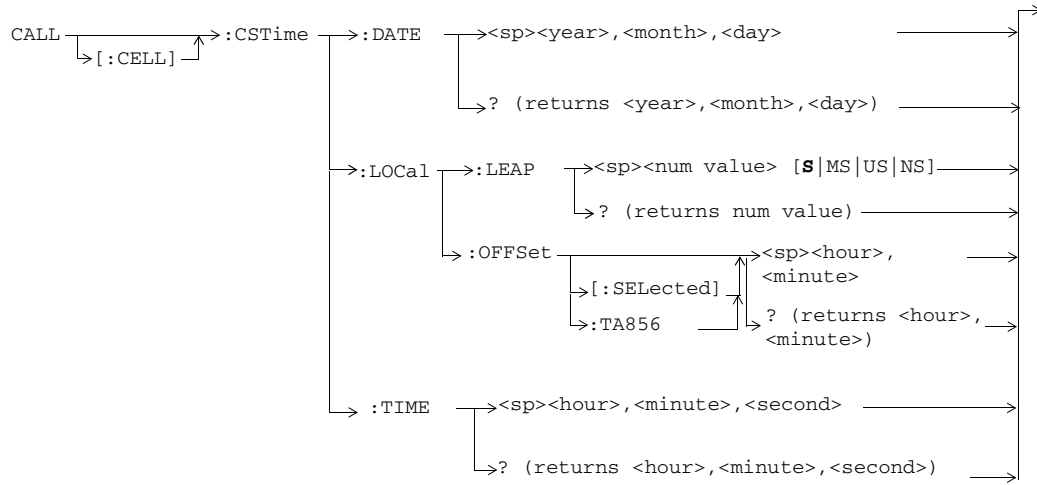
All of the commands shown in this diagram are only applicable to the lab application.

CALL:COUNT:DTMonitor

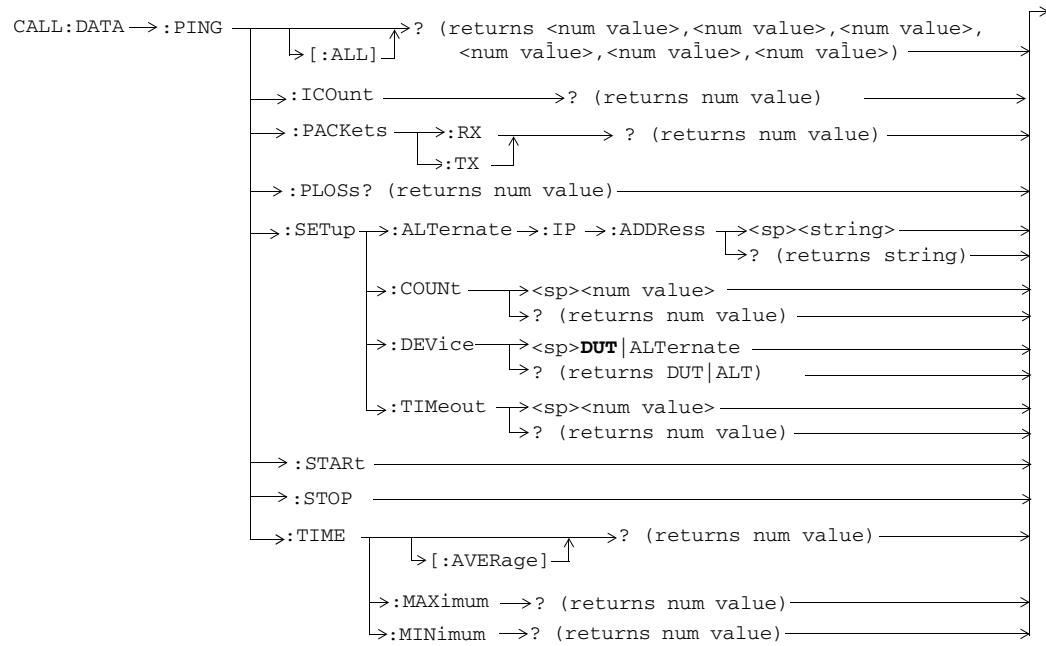


All commands shown in this diagram are only applicable to the lab application.

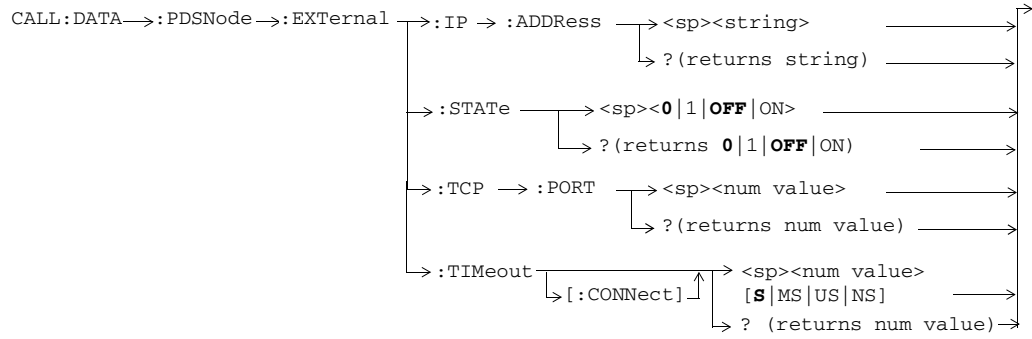
CALL:CSTime



CALL:DATA

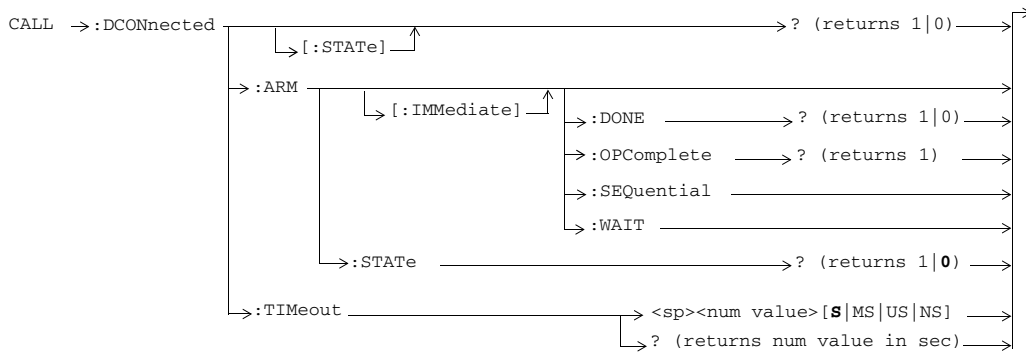


All commands shown in this diagram are only applicable to the lab application.

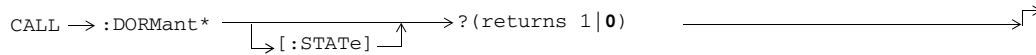


All commands shown in this diagram are only applicable to the lab application.

CALL:DCONnected

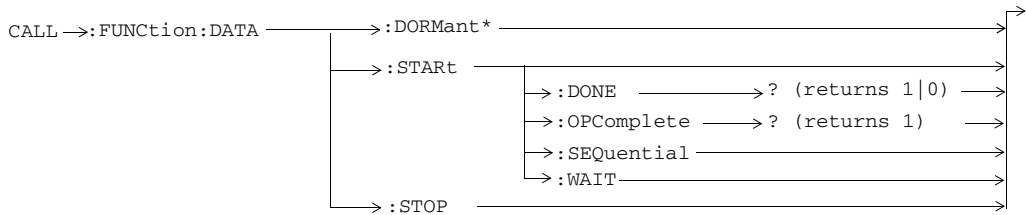


CALL:DORMant*



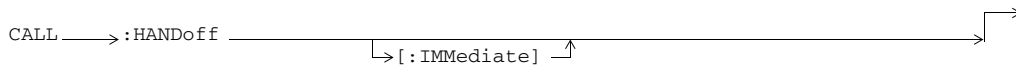
* This command is only applicable to the lab application.

CALL:FUNCTion:DATA

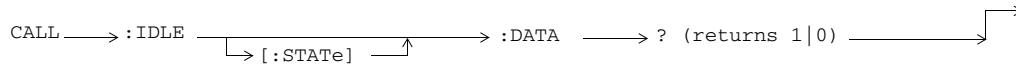


* This command is only applicable to the lab application.

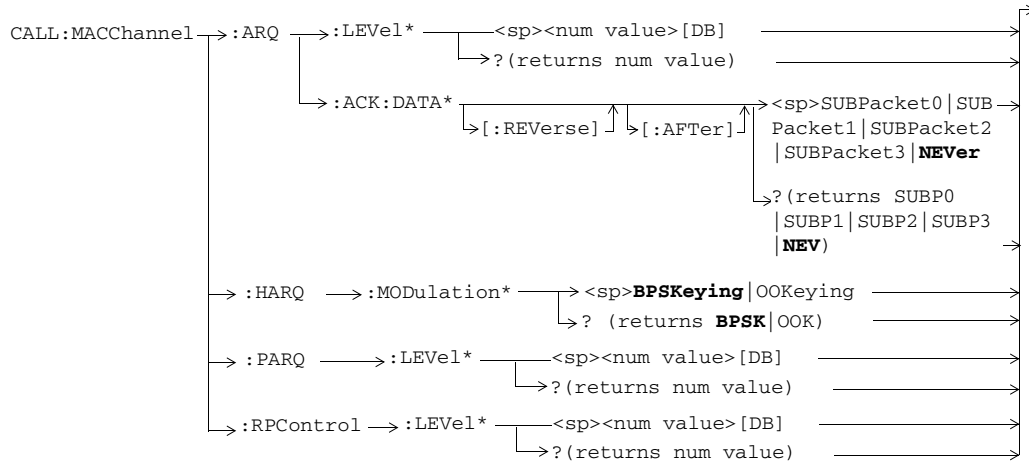
CALL:HANDoff



CALL:IDLE:DATA?

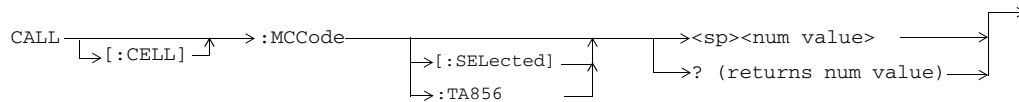


CALL:MACCHannel

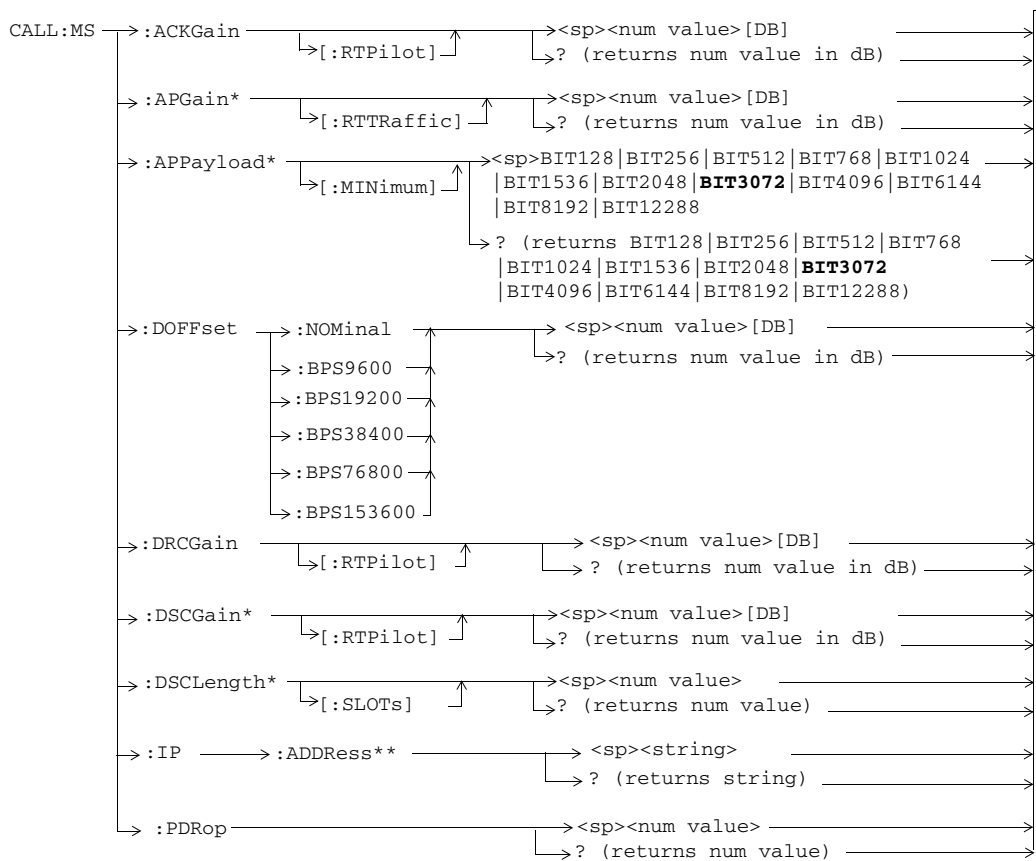


** Only applicable to the lab application and feature-licensed test application.*

CALL:MCCode

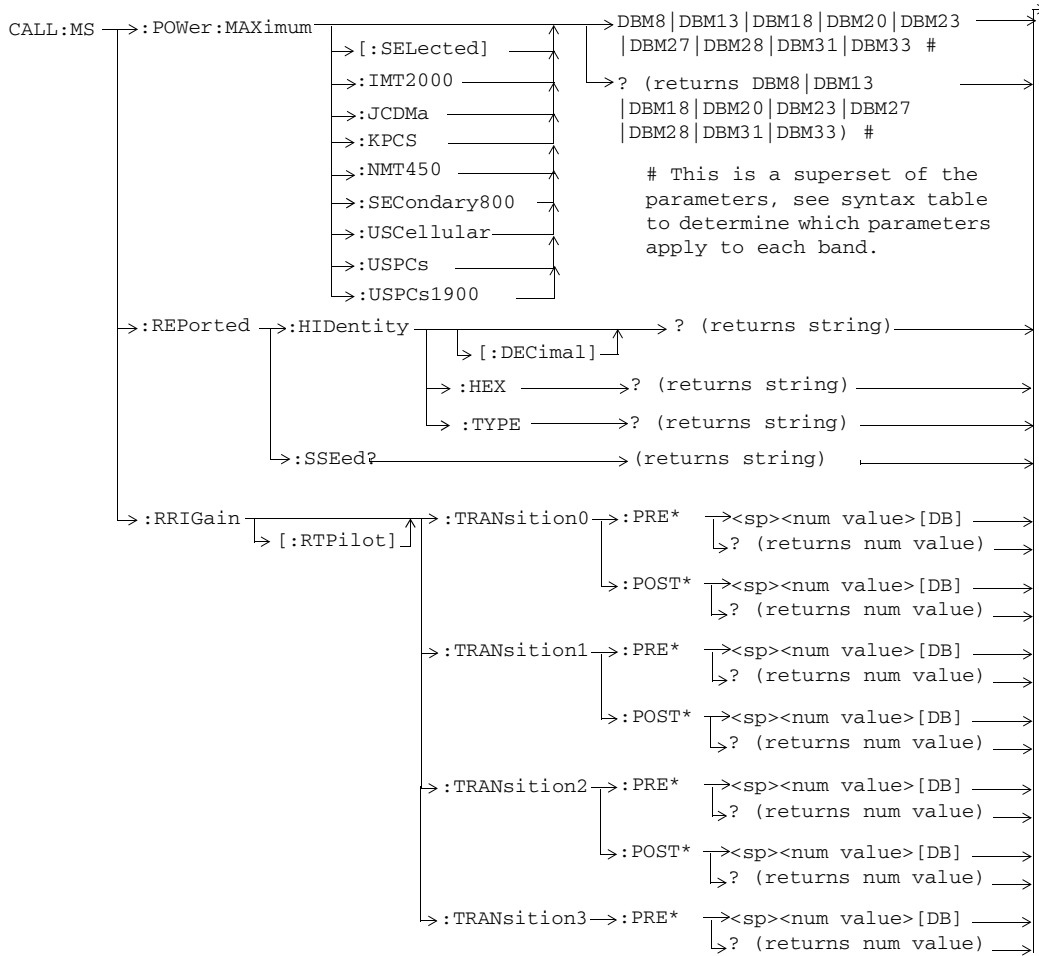


CALL:MS



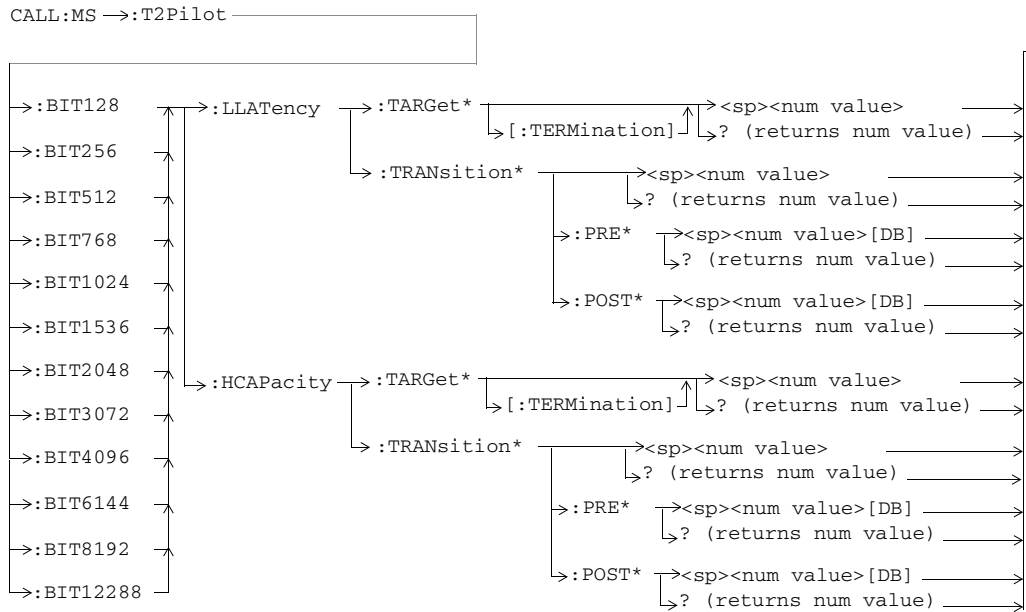
* Only applicable to the lab application and feature-licensed test application.

** Only applicable to the lab application.



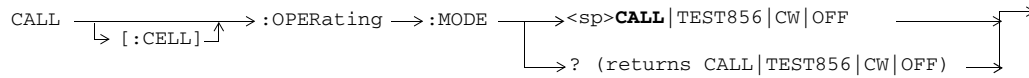
* Only applicable to the lab application and feature-licensed test application.

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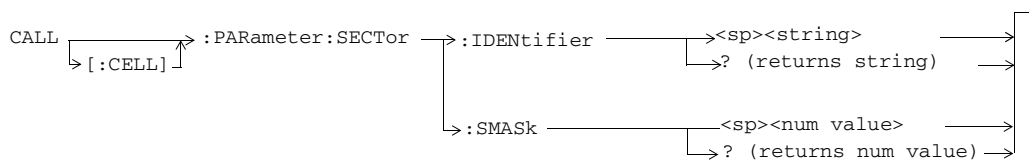


** Only applicable to the lab application and feature-licensed test application.*

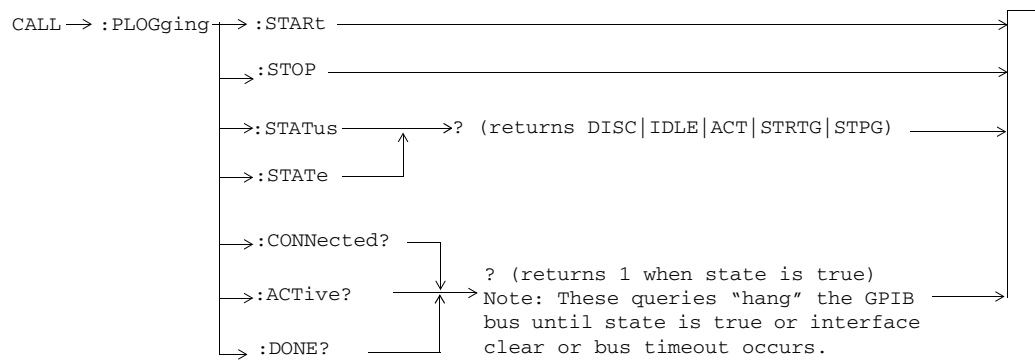
CALL:OPERating:MODE



CALL:PARAmeter:SECTor

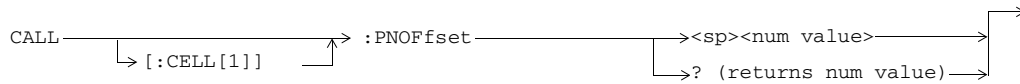


CALL:PLOGging

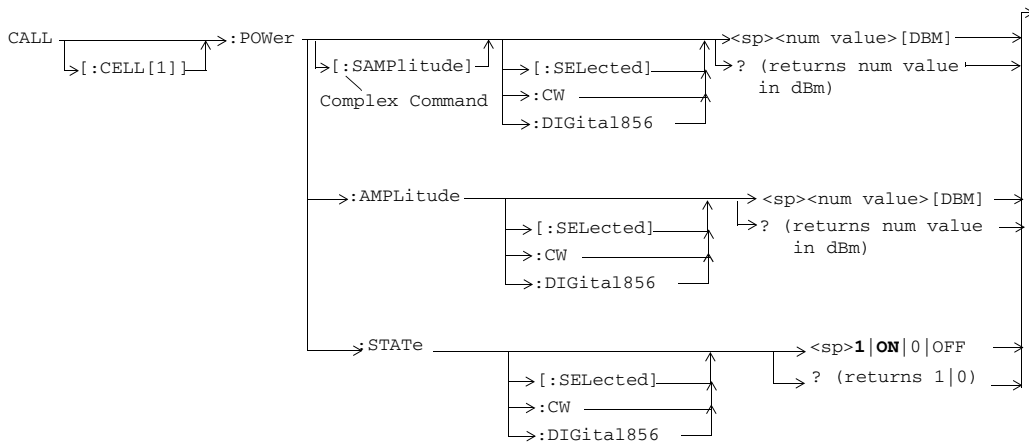


All commands shown in this diagram are only applicable to the lab application.

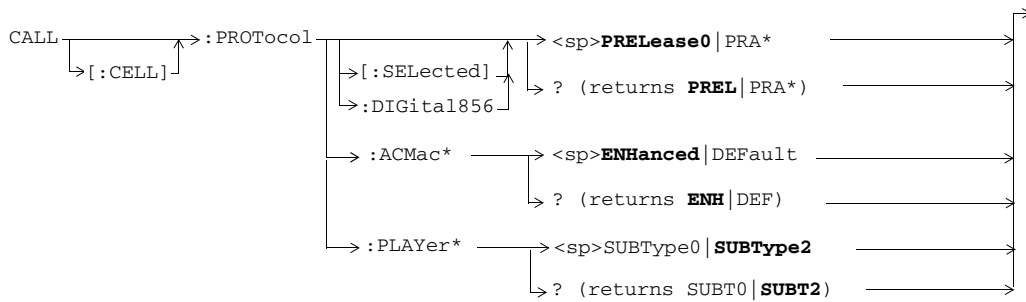
CALL:PNOFfset



CALL:POWer

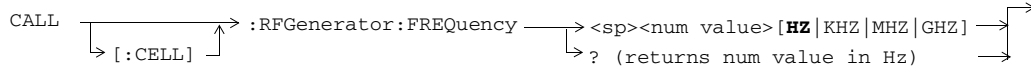


CALL:PROTOcol

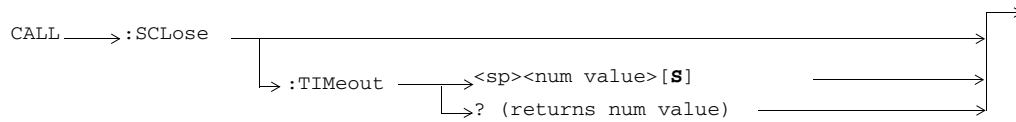


** Only applicable to the lab application and feature-licensed test application.*

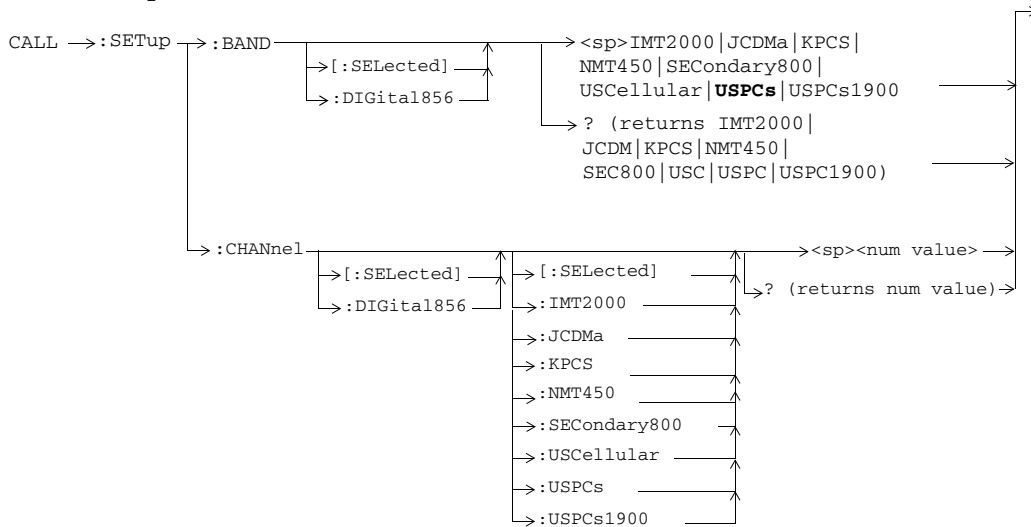
CALL:RFGenerator



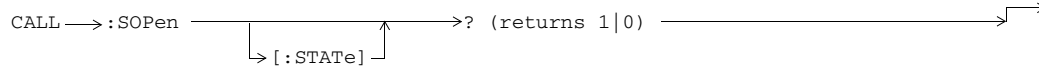
CALL:SClose



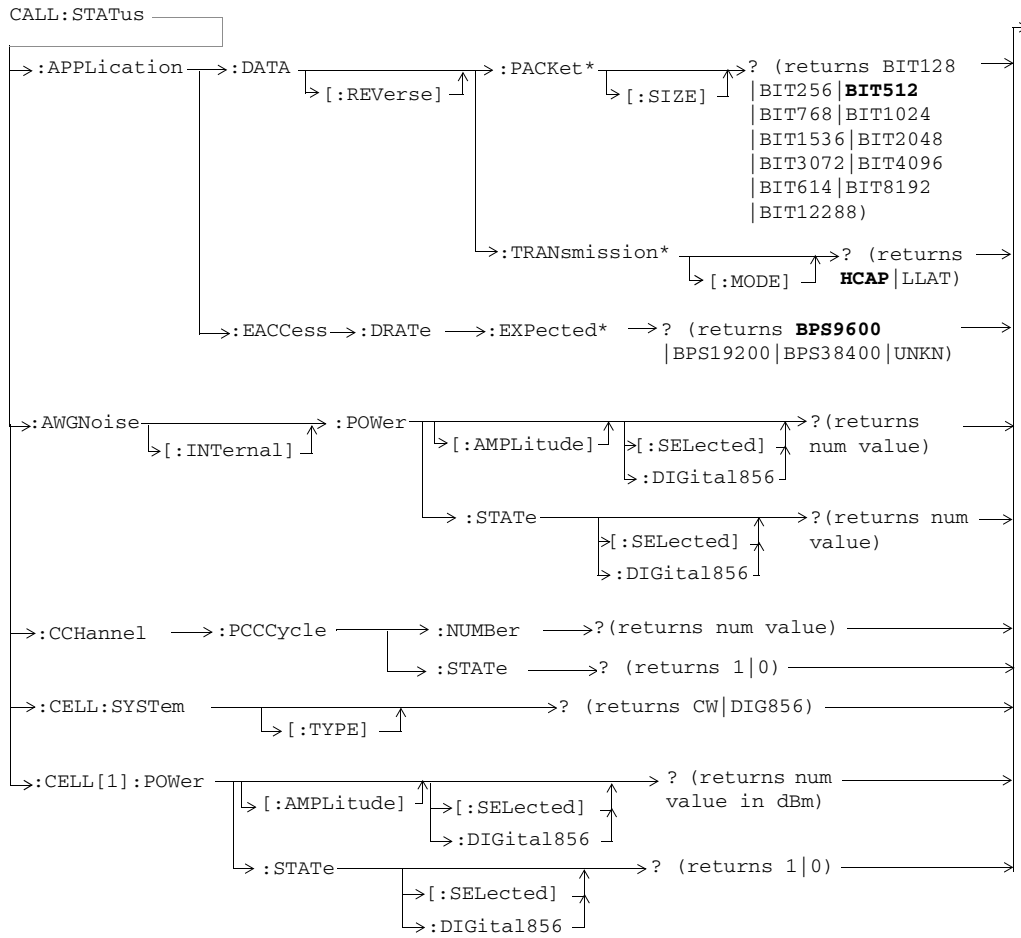
CALL:SETup



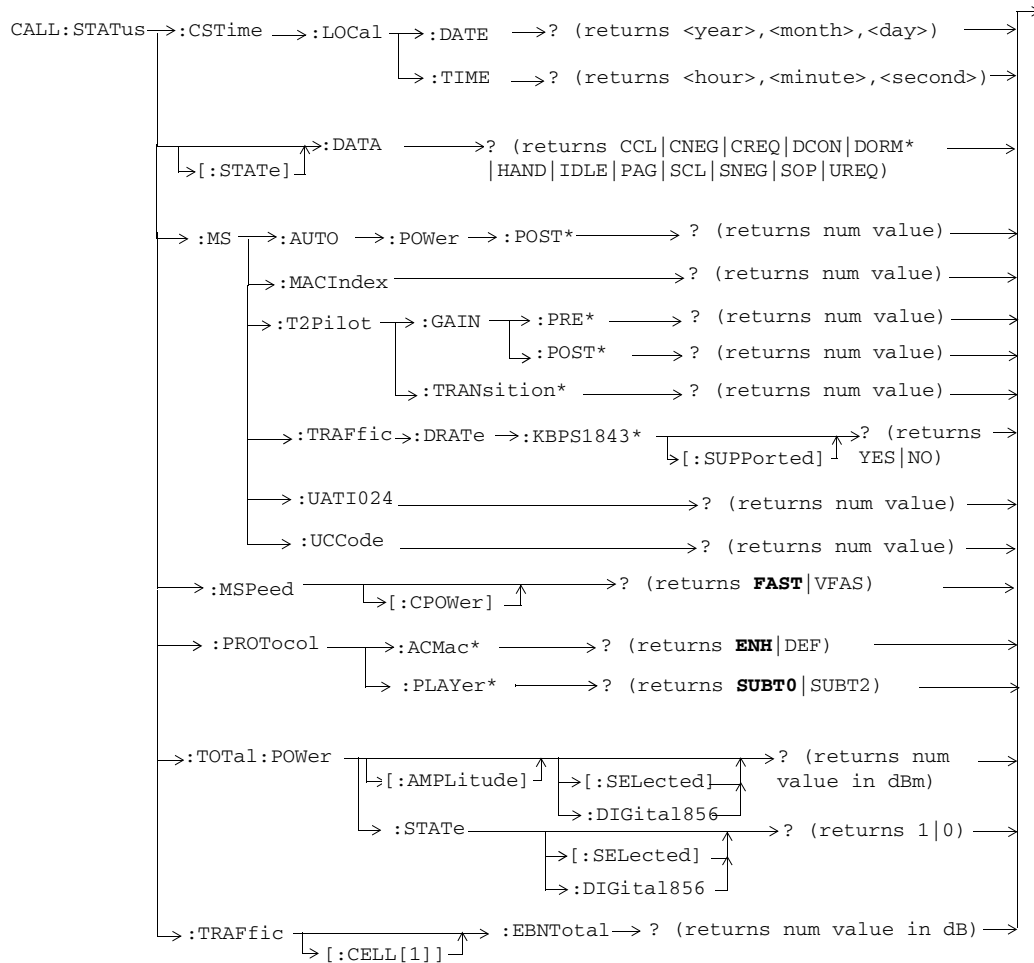
CALL:SOPen?



CALL:STATus

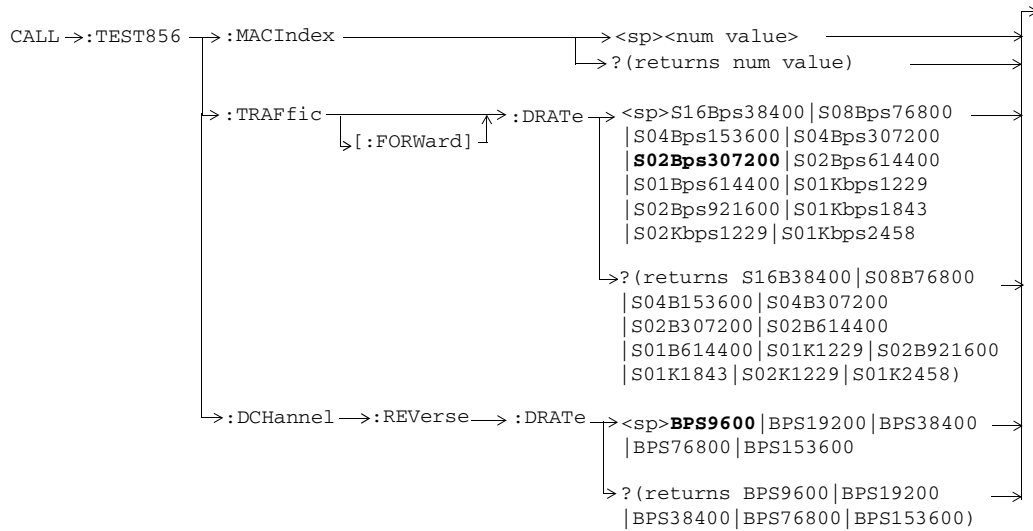


* Only applicable to the lab application and feature-licensed test application.

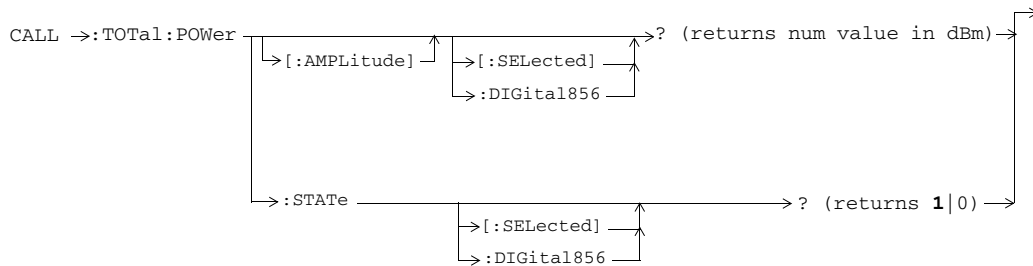


* Only applicable to the lab application and feature-licensed test application.

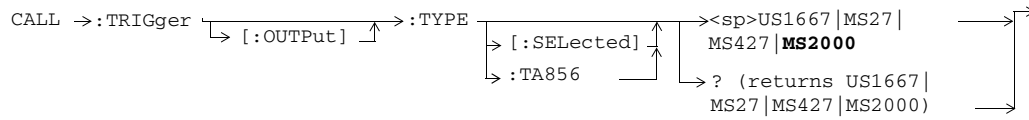
CALL:TEST856



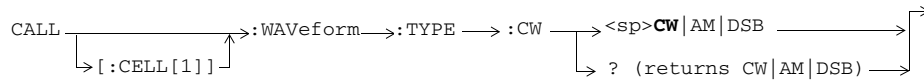
CALL:TOTAL:POWER



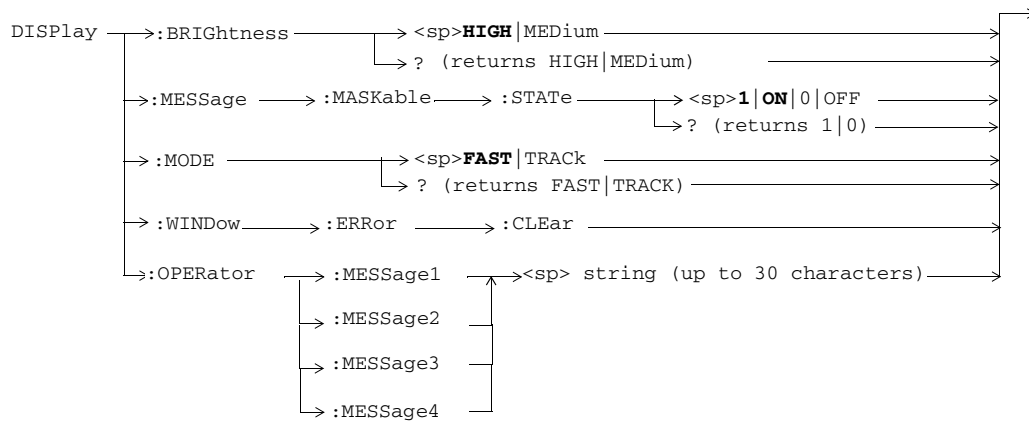
CALL:TRIGger



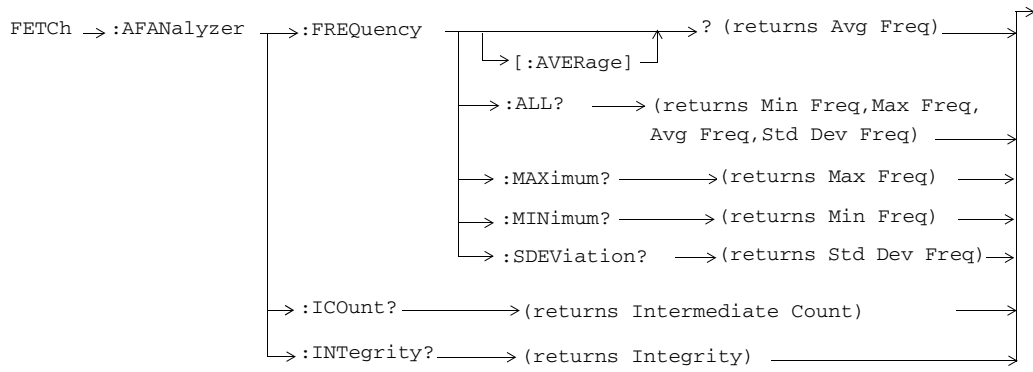
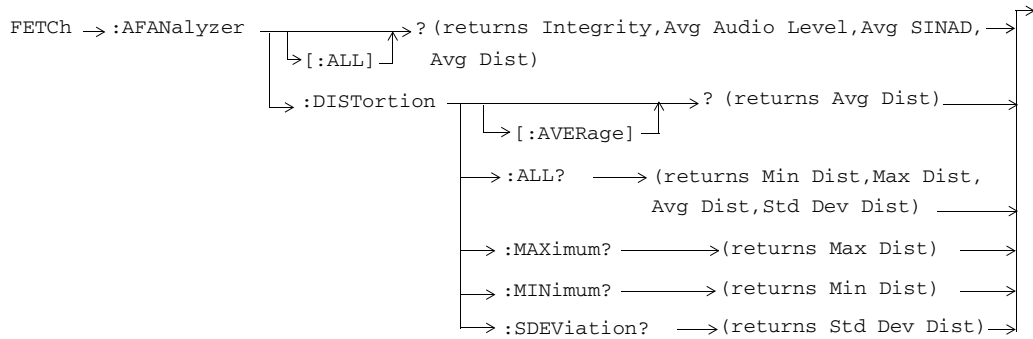
CALL:WAVeform

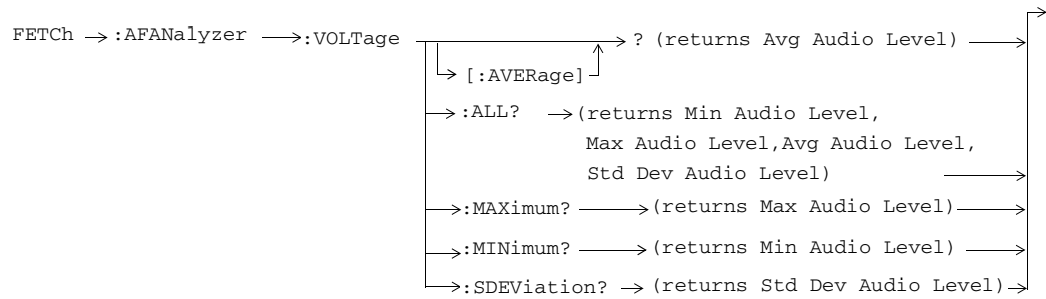
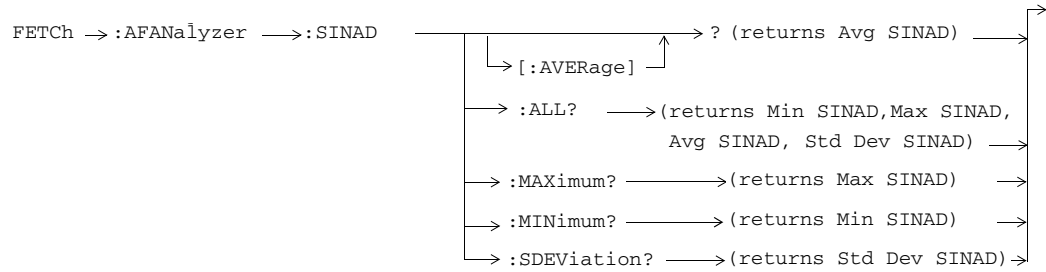


DISPlay

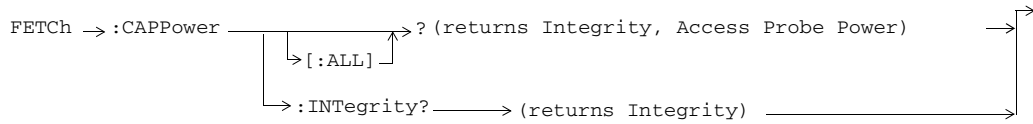


FETCH:AFANalyzer

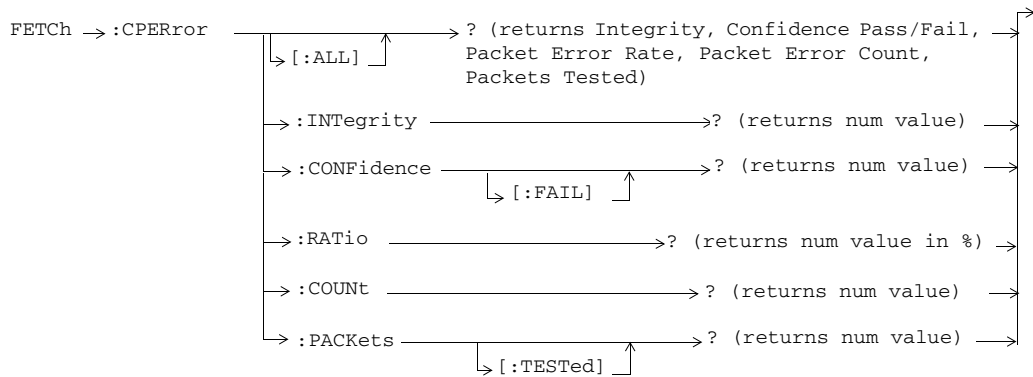




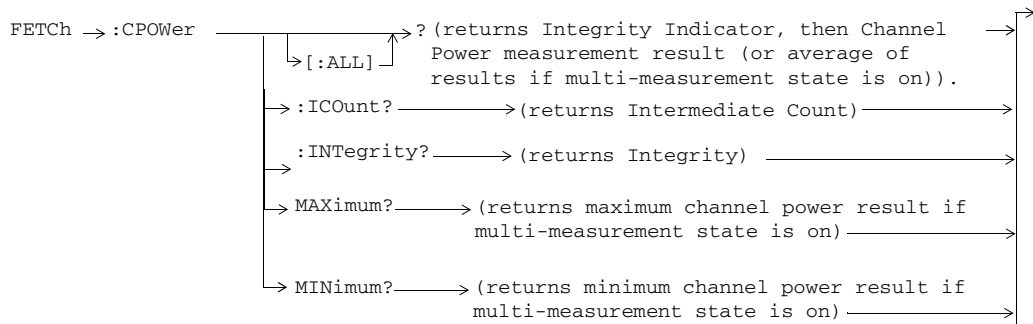
FETCh:CAPPower



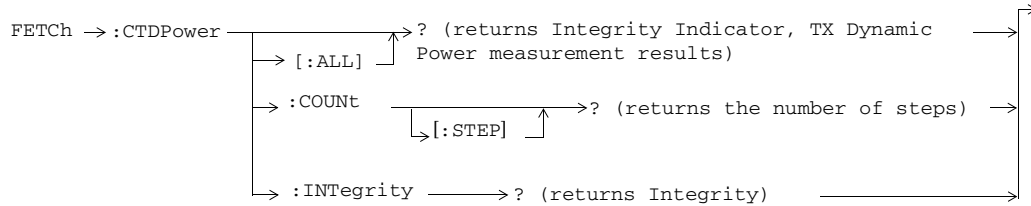
FETCh:CPERror



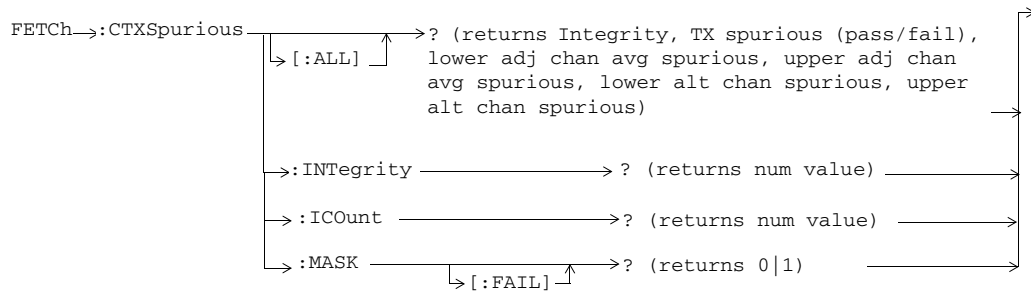
FETCh:CPOWer



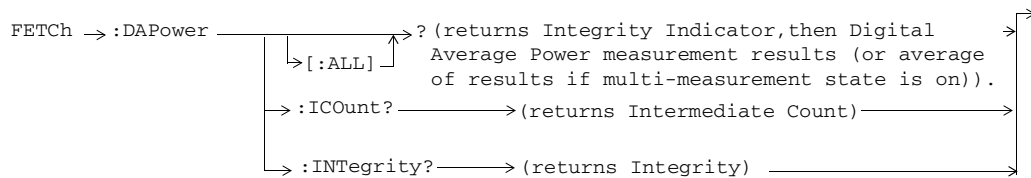
FETCH:CTDPower



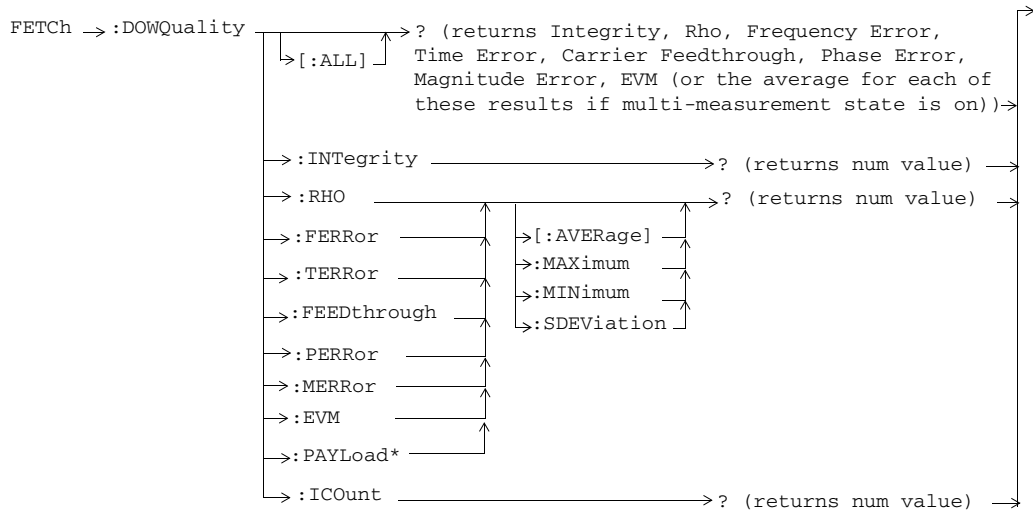
FETCH:CTXSpurious



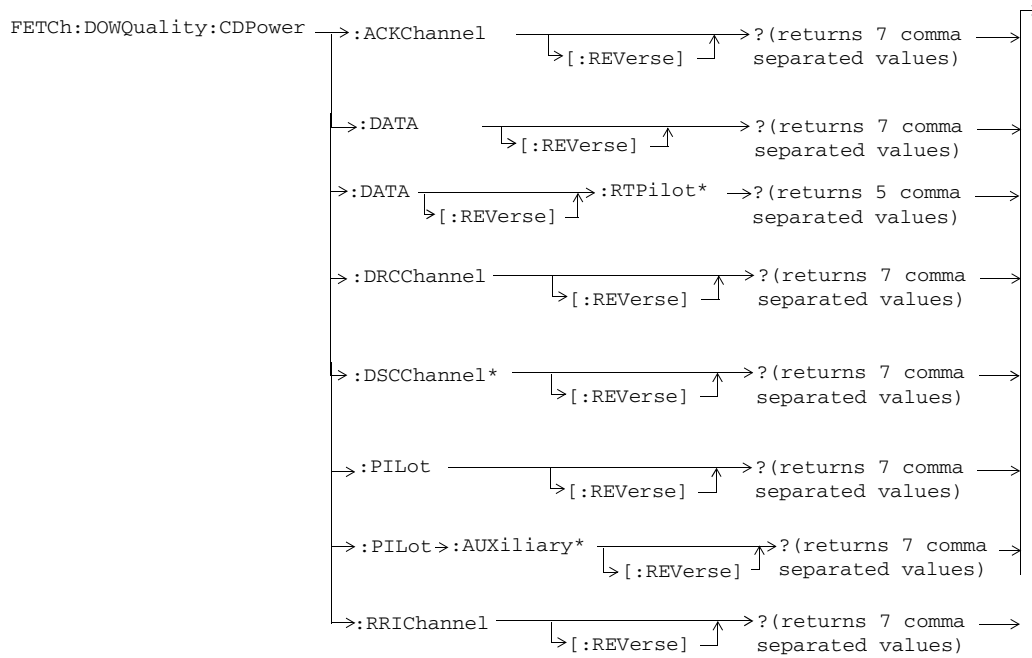
FETCH:DAPower



FETCH:DOWQuality

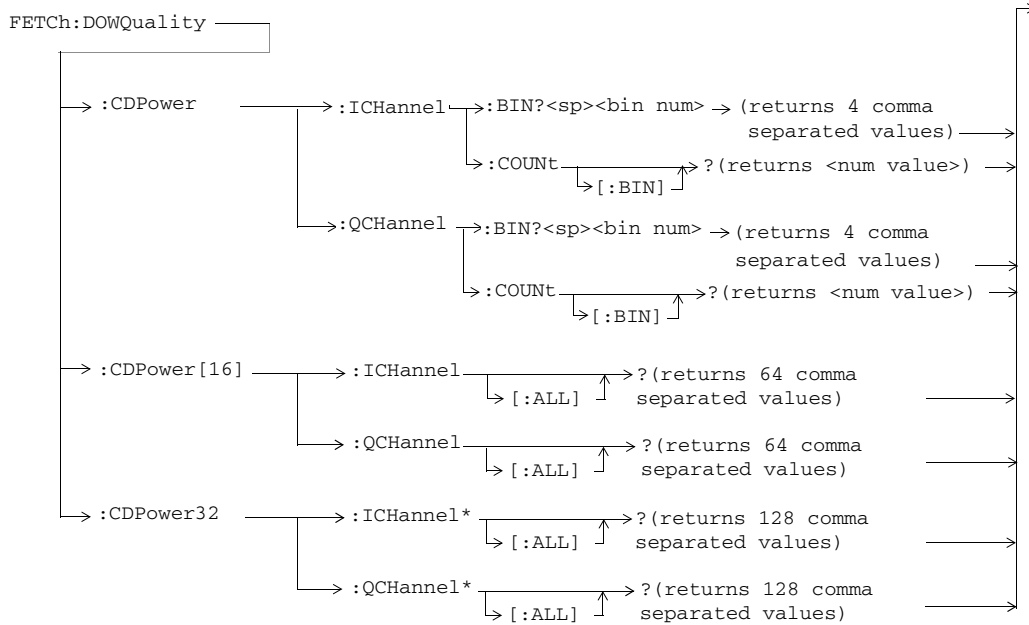


** Only applicable to the lab application and feature-licensed test application.*

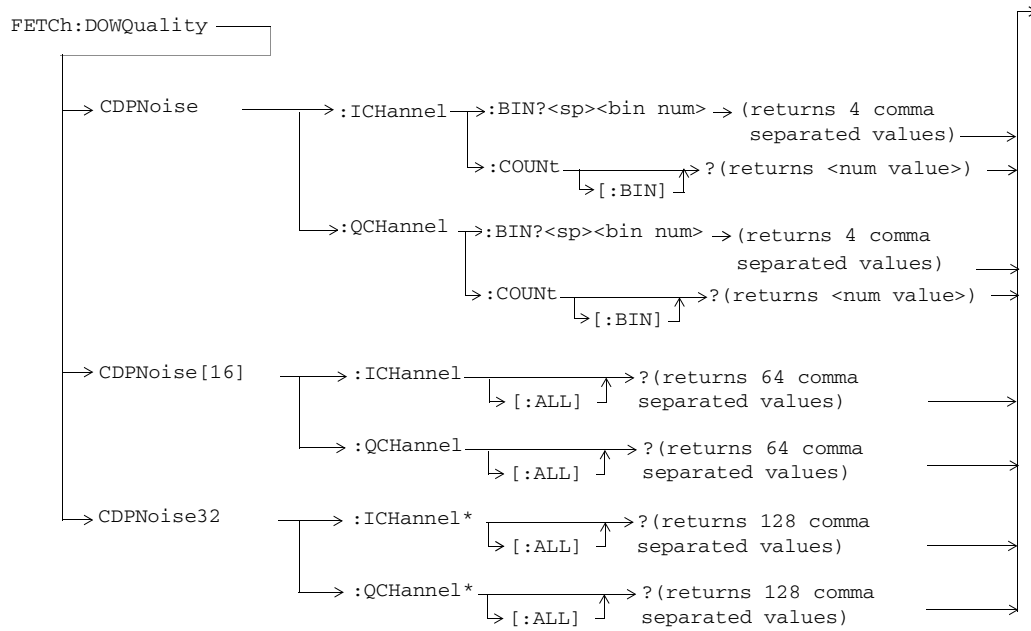


* Only applicable to the lab application and feature-licensed test application.

GPIB Syntax for E1966A and E6706A/T

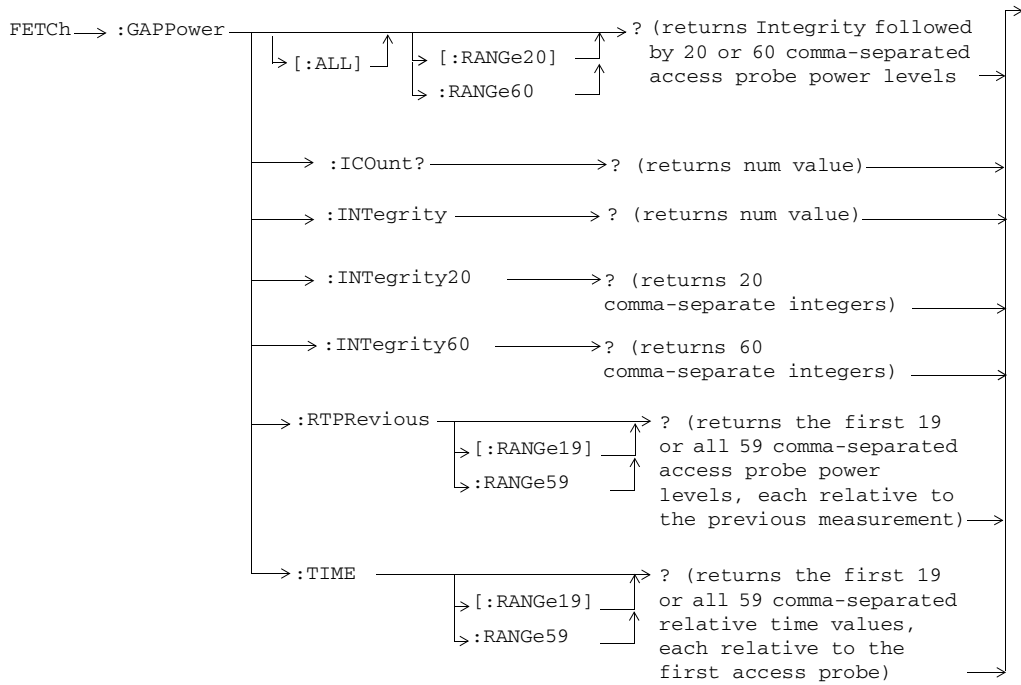


* Only applicable to the lab application and feature-licensed test application.



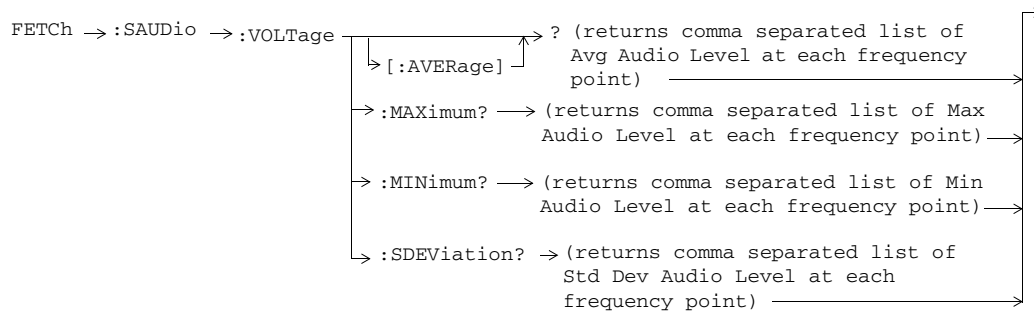
** Only applicable to the lab application and feature-licensed test application.*

FETCH:GAPower

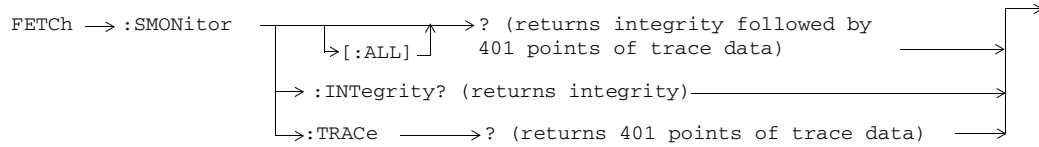


All commands shown in this diagram are only applicable to the lab application.

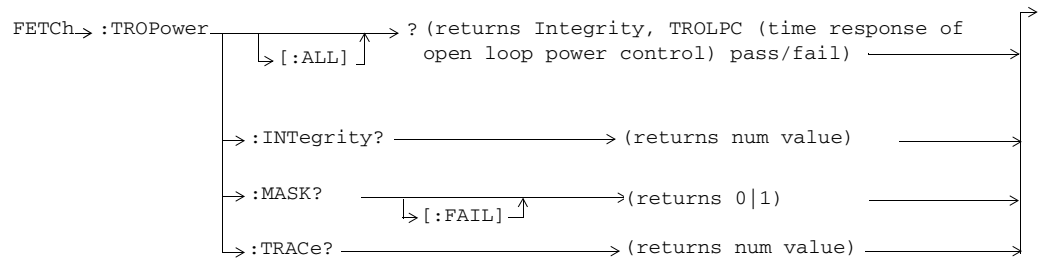
GPIB Syntax for E1966A and E6706A/T



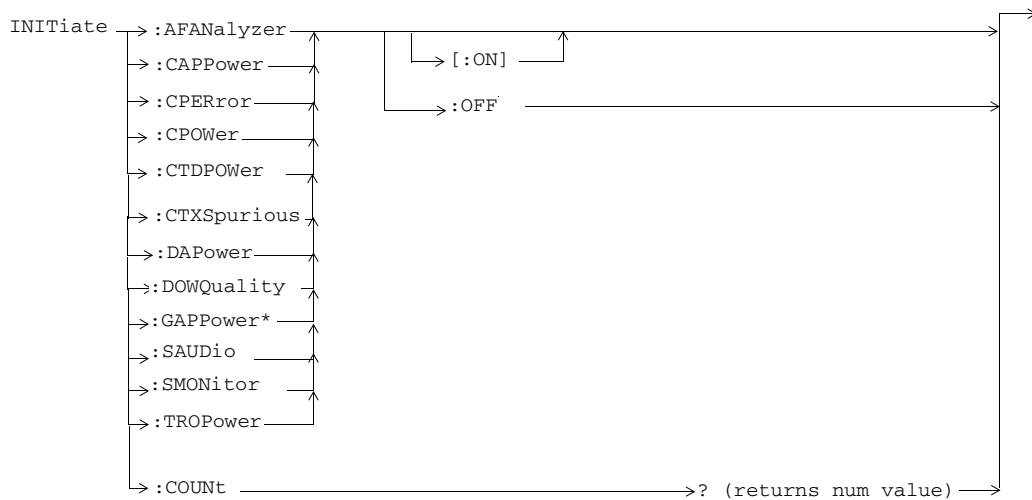
FEtCh:SMONitor



FEtCh:TROPower

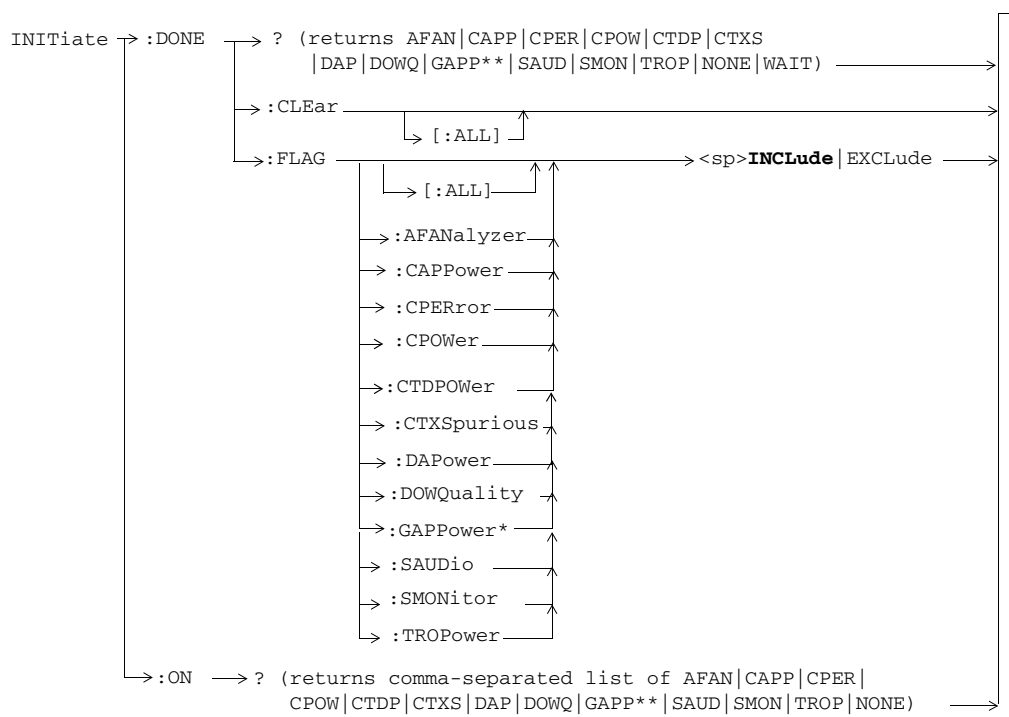


INITiate



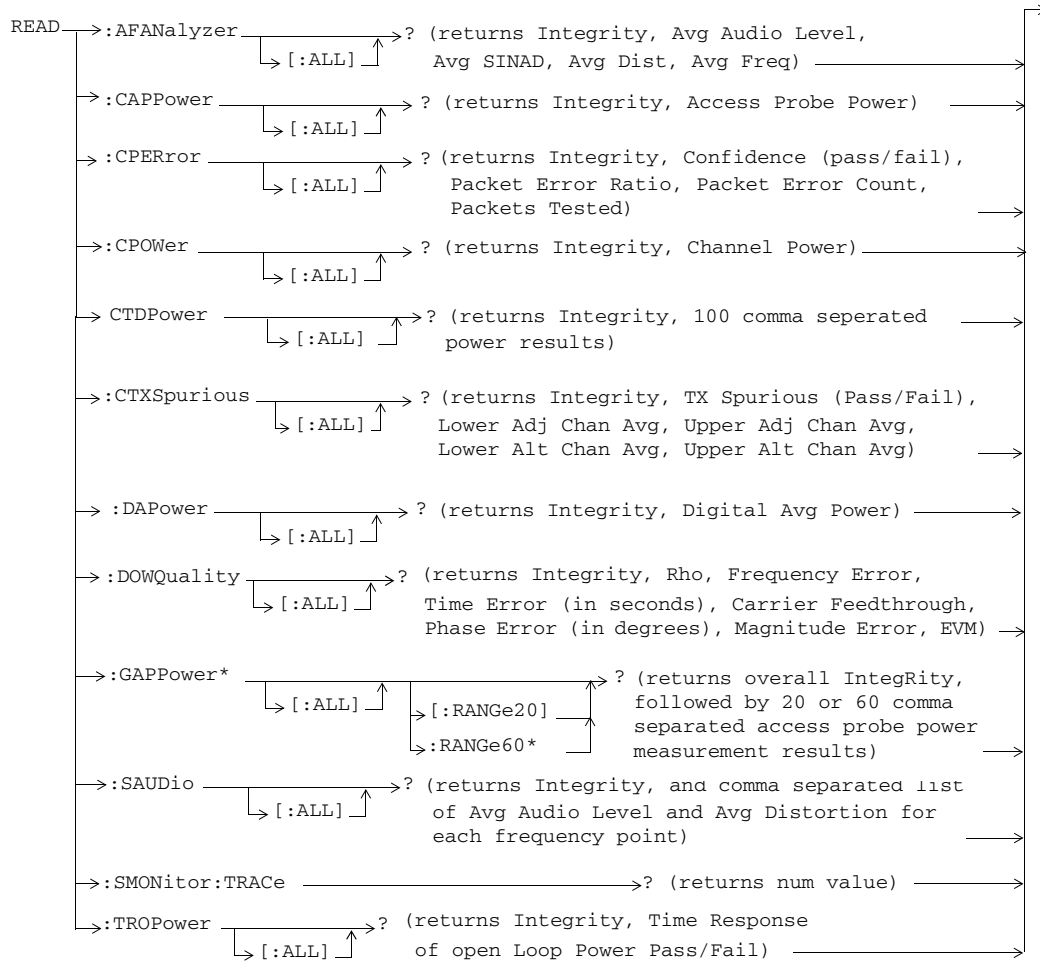
* This command is only applicable to the lab application.

GPIB Syntax for E1966A and E6706A/T



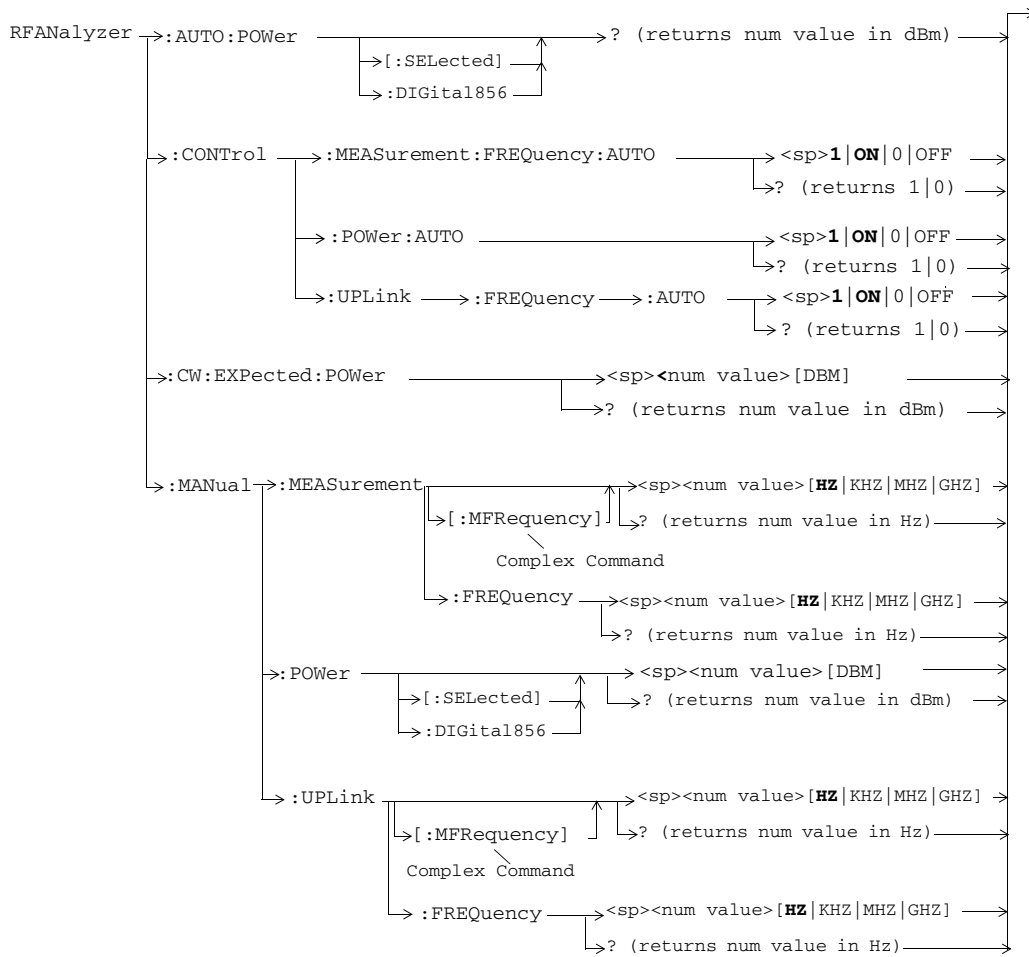
* This command is only applicable to the lab application.
 ** This query result is only applicable to the lab application.

READ

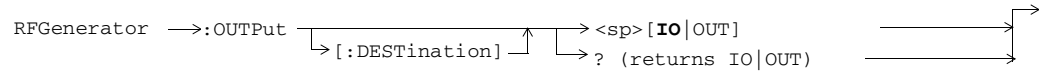


* These commands are only applicable to the lab application.

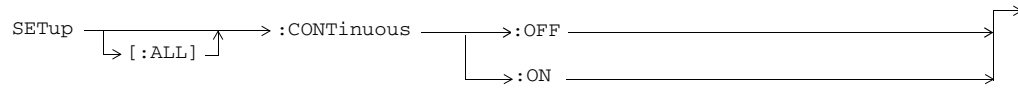
RFAnalyzer



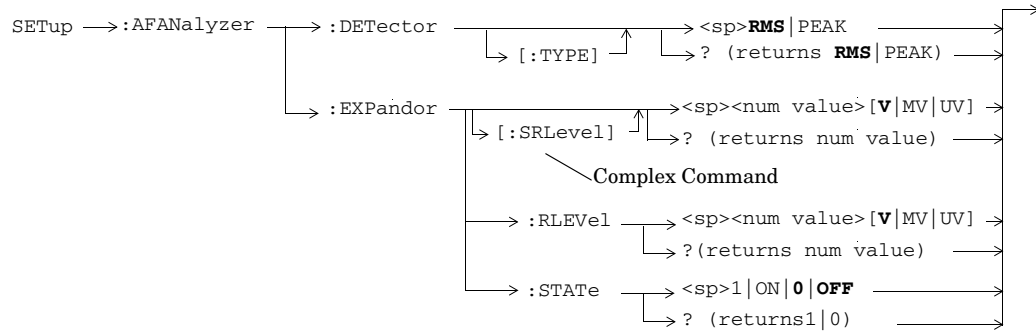
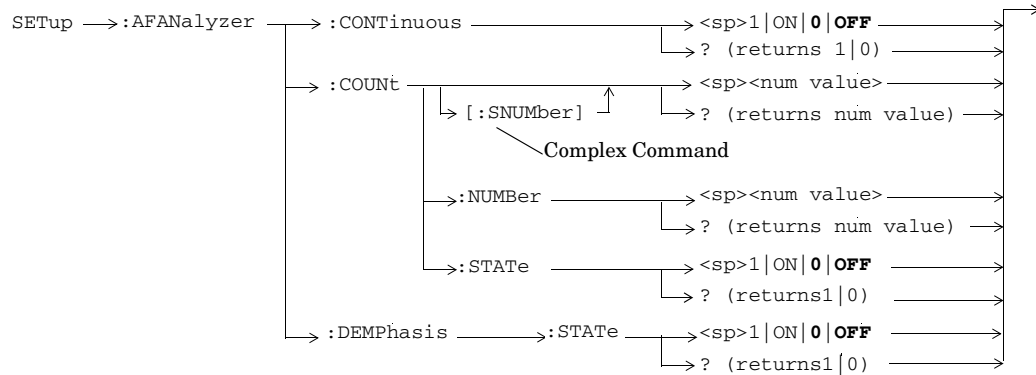
RFGenerator:OUTPut



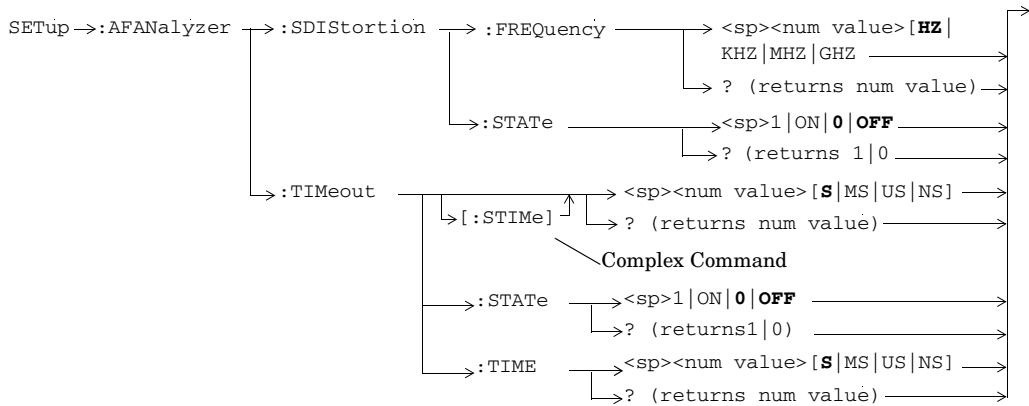
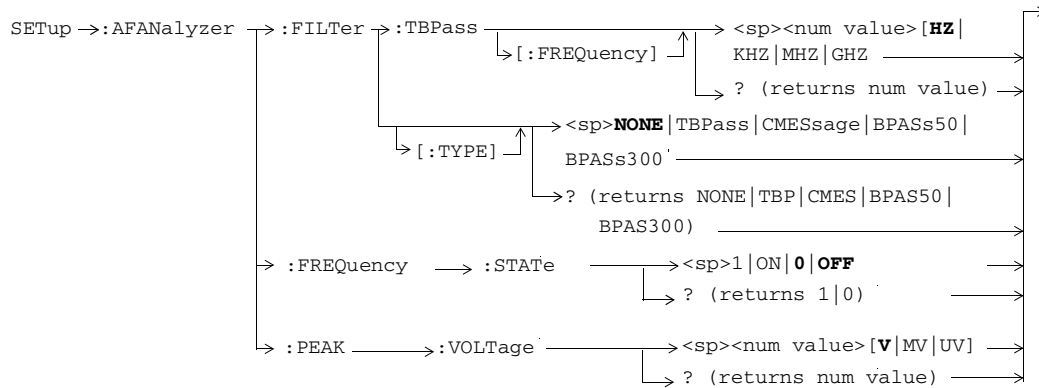
SETup:CONTInuous



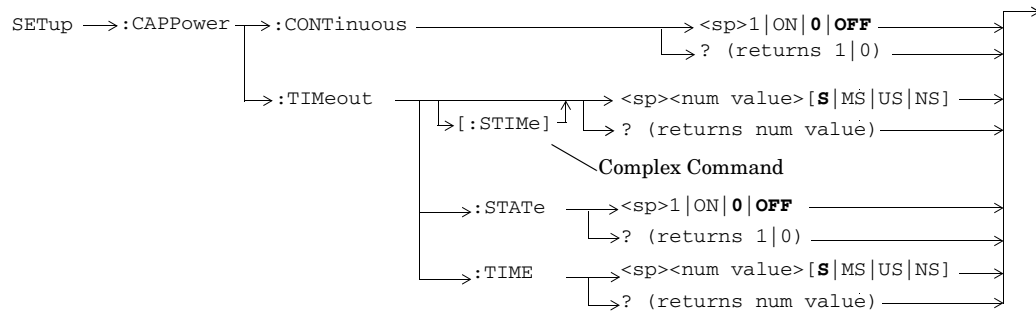
SETup:AFANalyzer



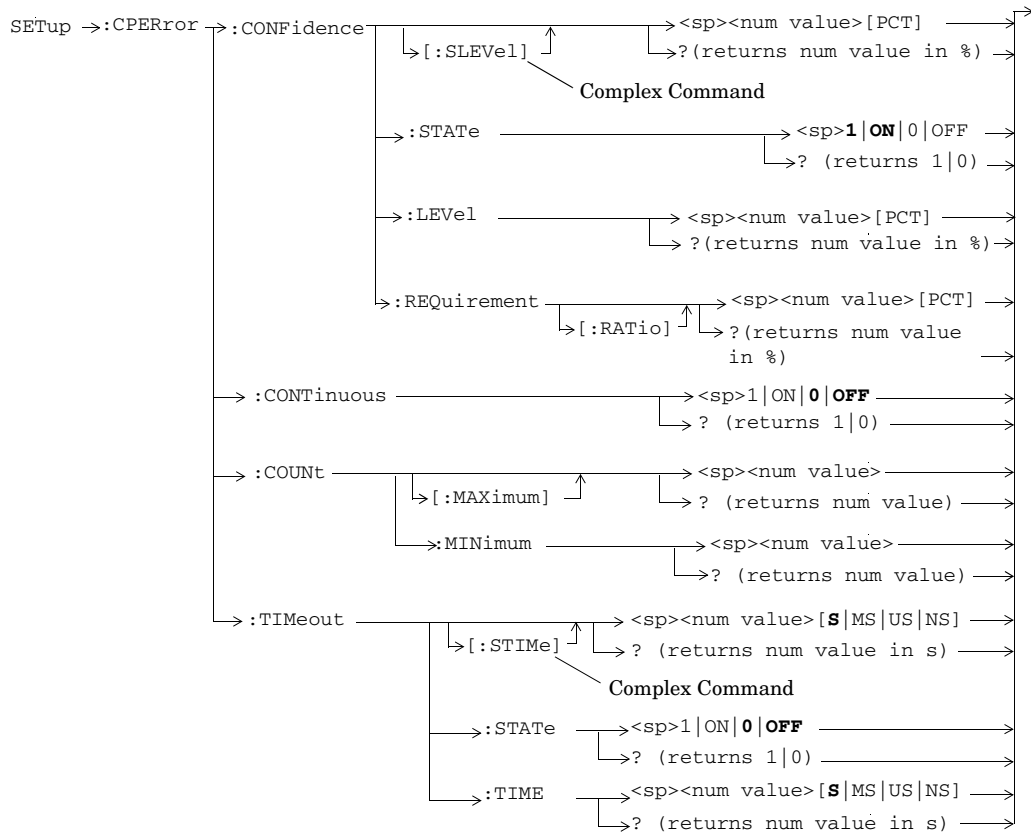
GPIB Syntax for E1966A and E6706A/T



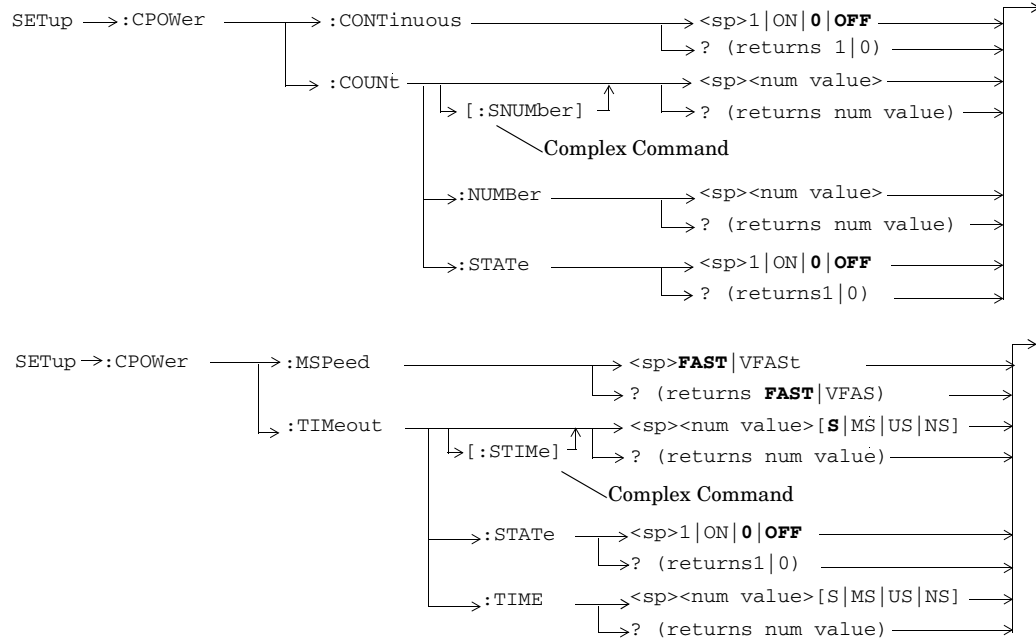
SETup:CAPPower



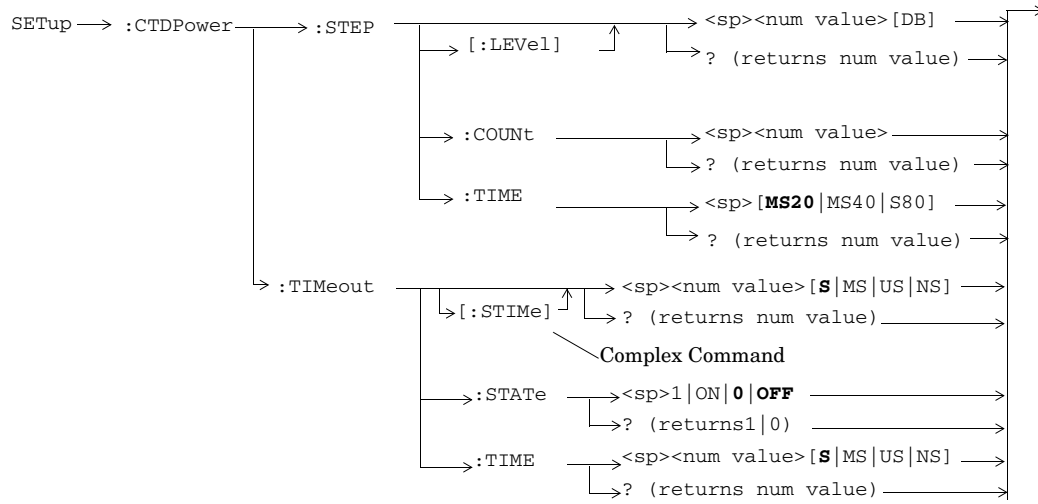
SETup:CPERror



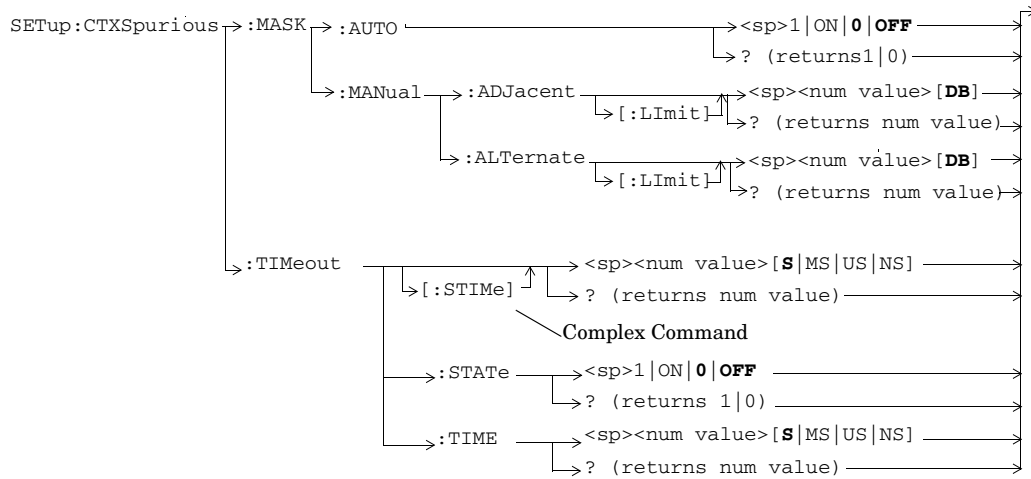
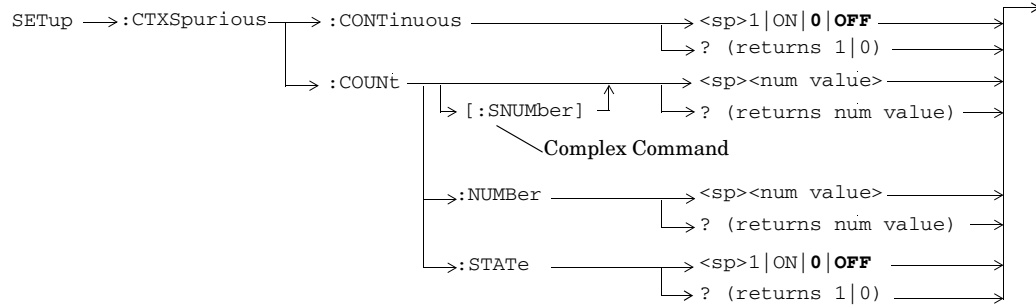
SETup:CPOWer



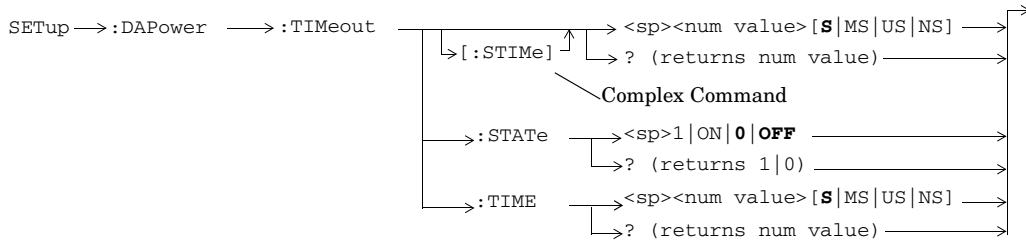
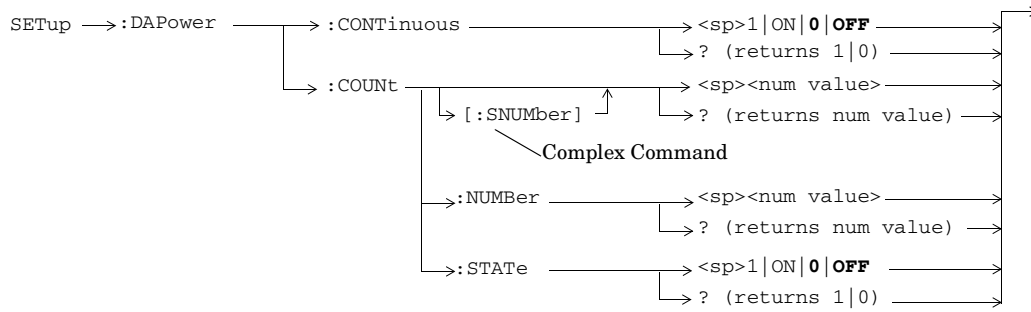
SETup:CTDPower



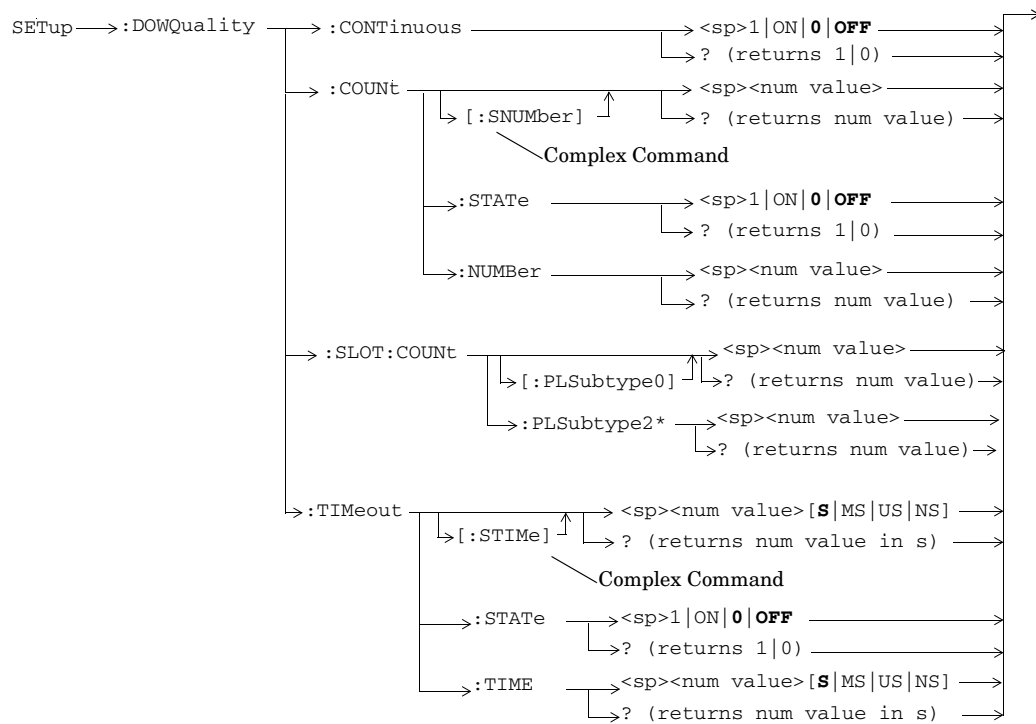
SETup:CTXSpurious



SETup:DAPower

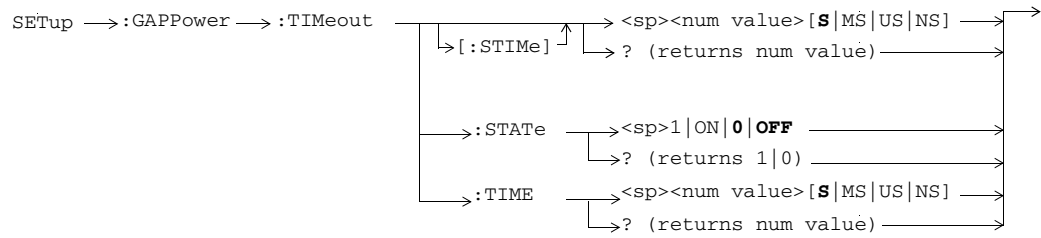


SETup:DOWQuality



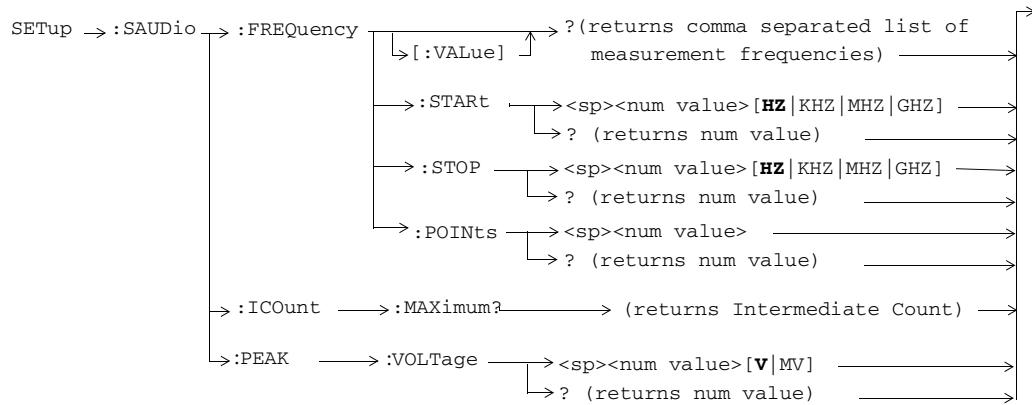
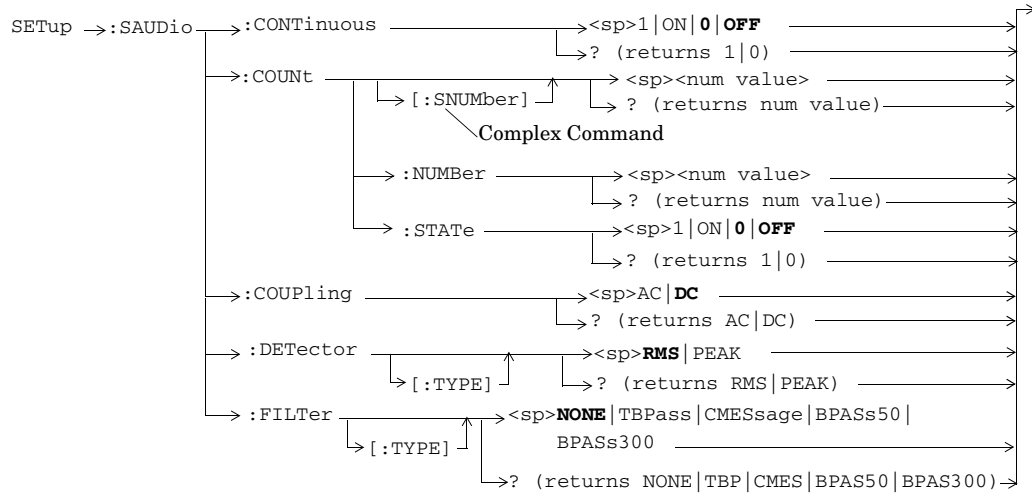
** Only applicable to the lab application and feature-licensed test application.*

SETup:GAPower

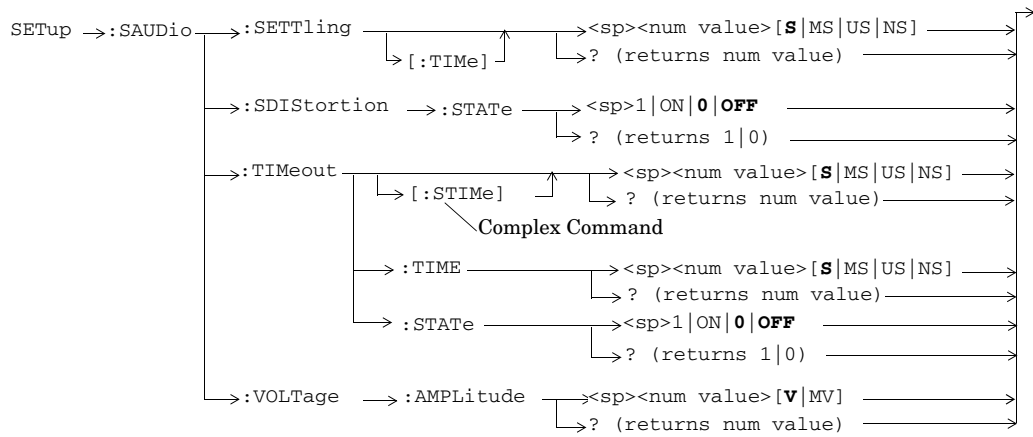


All commands shown in this diagram are only applicable to the lab application.

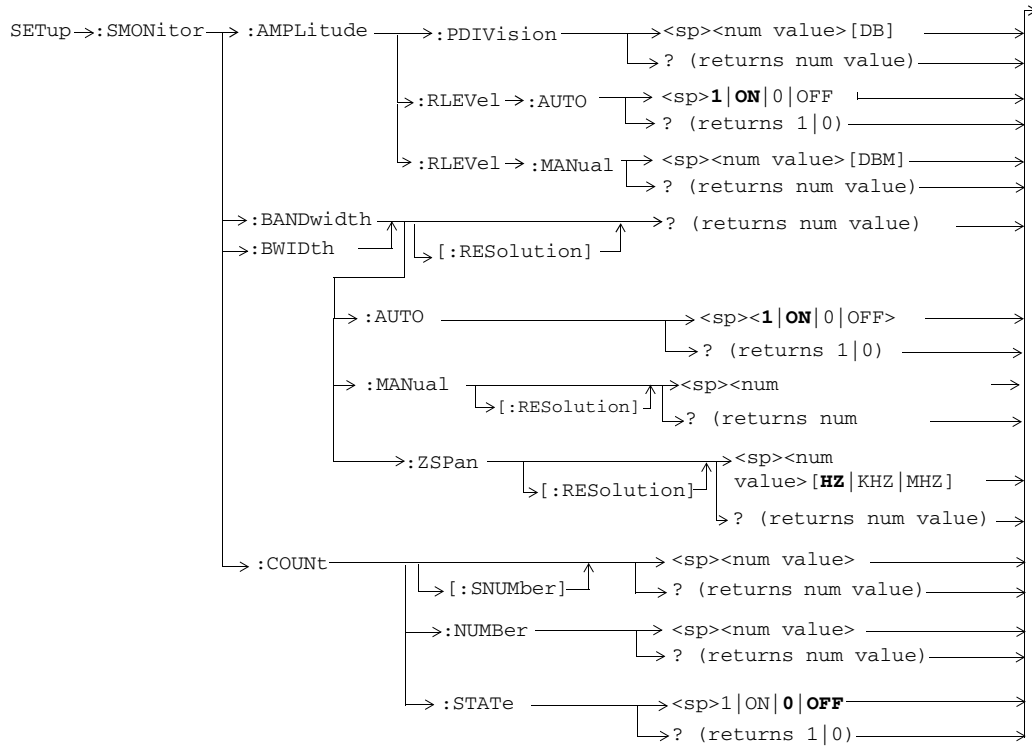
SETup:SAUDio



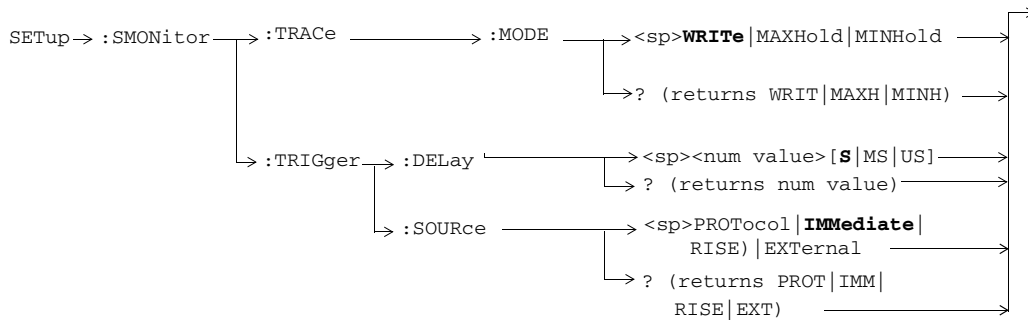
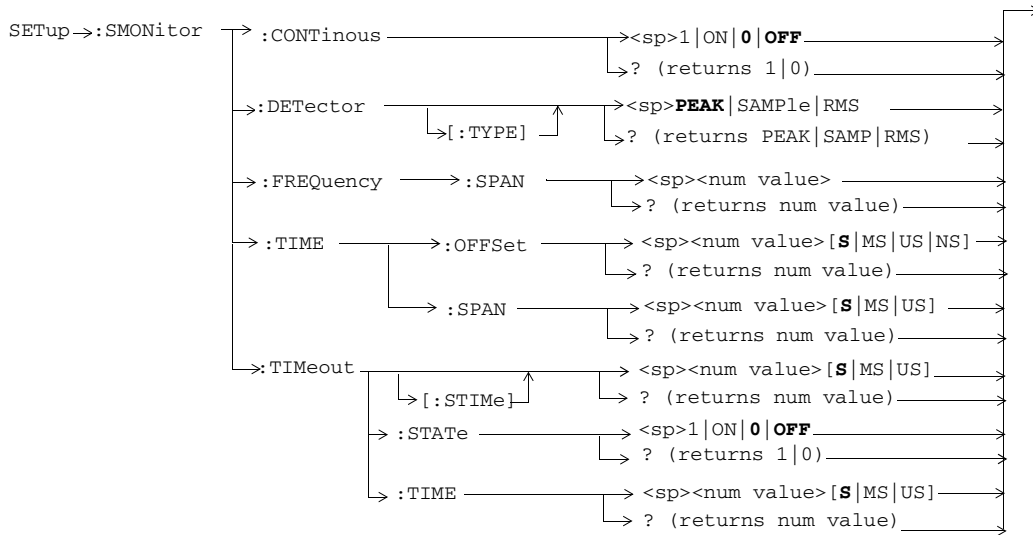
GPIB Syntax for E1966A and E6706A/T



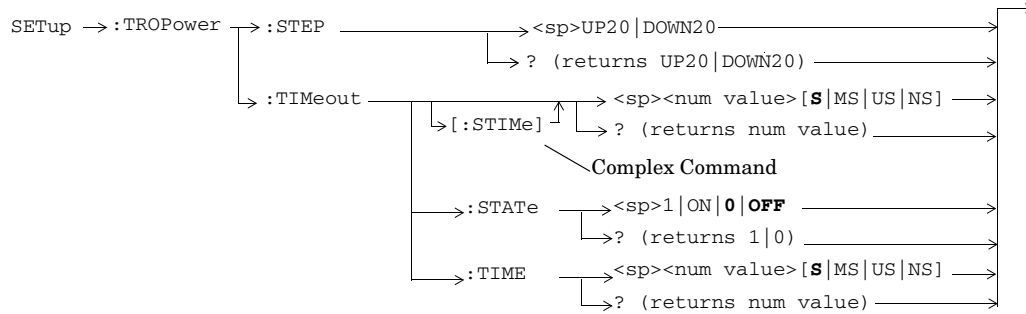
SETup:SMONitor



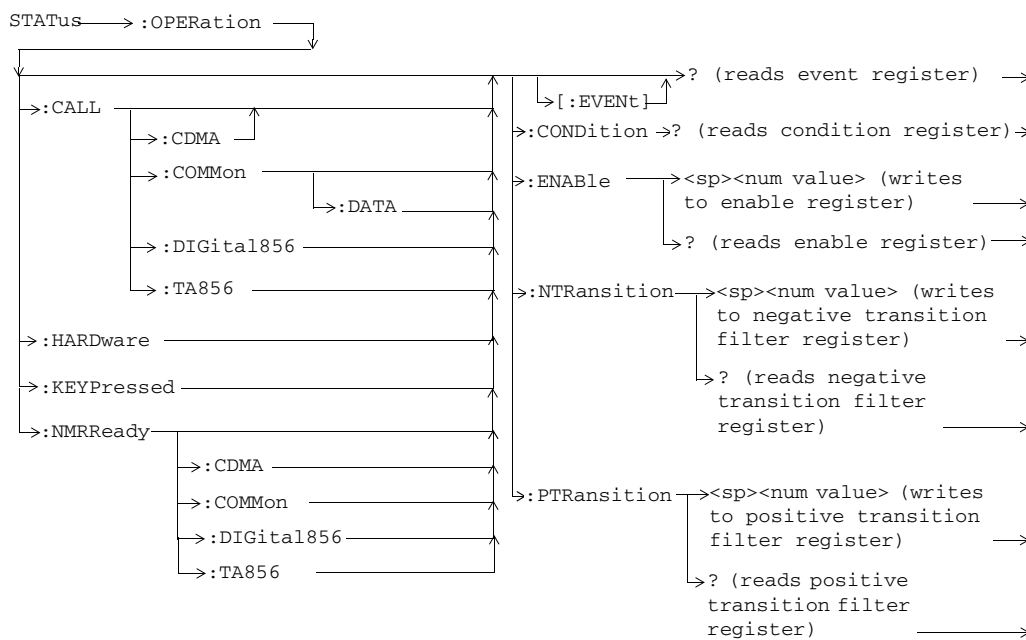
GPIB Syntax for E1966A and E6706A/T



SETup:TROPower



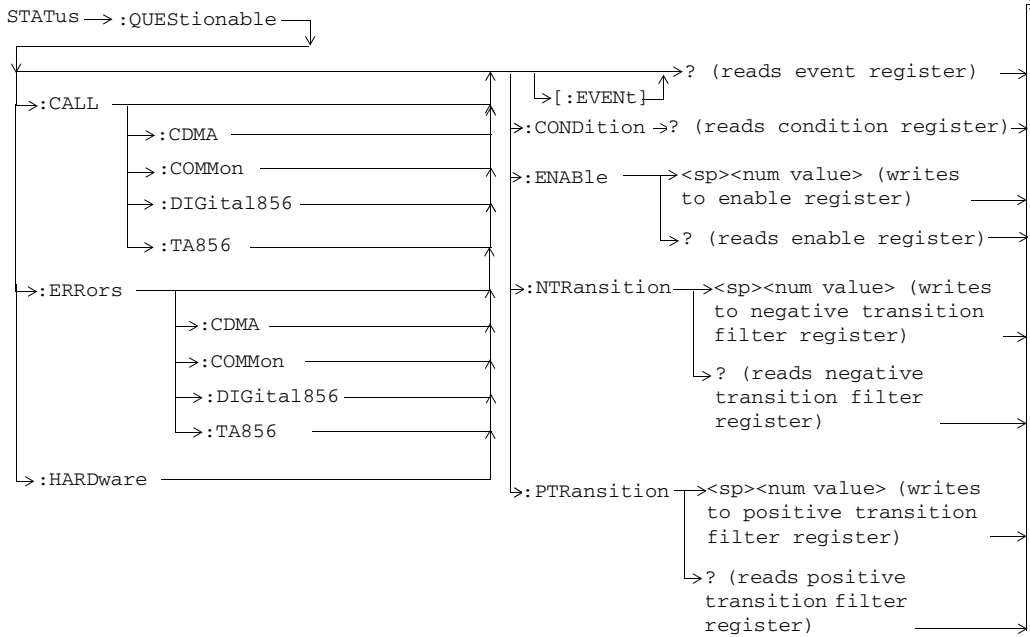
STATus:OPERation



STATUS:PRESet

STATus → :PRESet →

STATUS:QUEStionable



Status Byte Register

***STB?**

*STB? →

NOTE The Status Byte Register can also be read with a serial poll. For example, the command "Status_byte = SPOLL(714)" would perform a serial poll of the Status Byte Register, returning and releasing RQS (bit 6).

Standard Event Status Register

***ESR?**

*ESR? —————> Reads and clears the Std Event Status Register. —————>

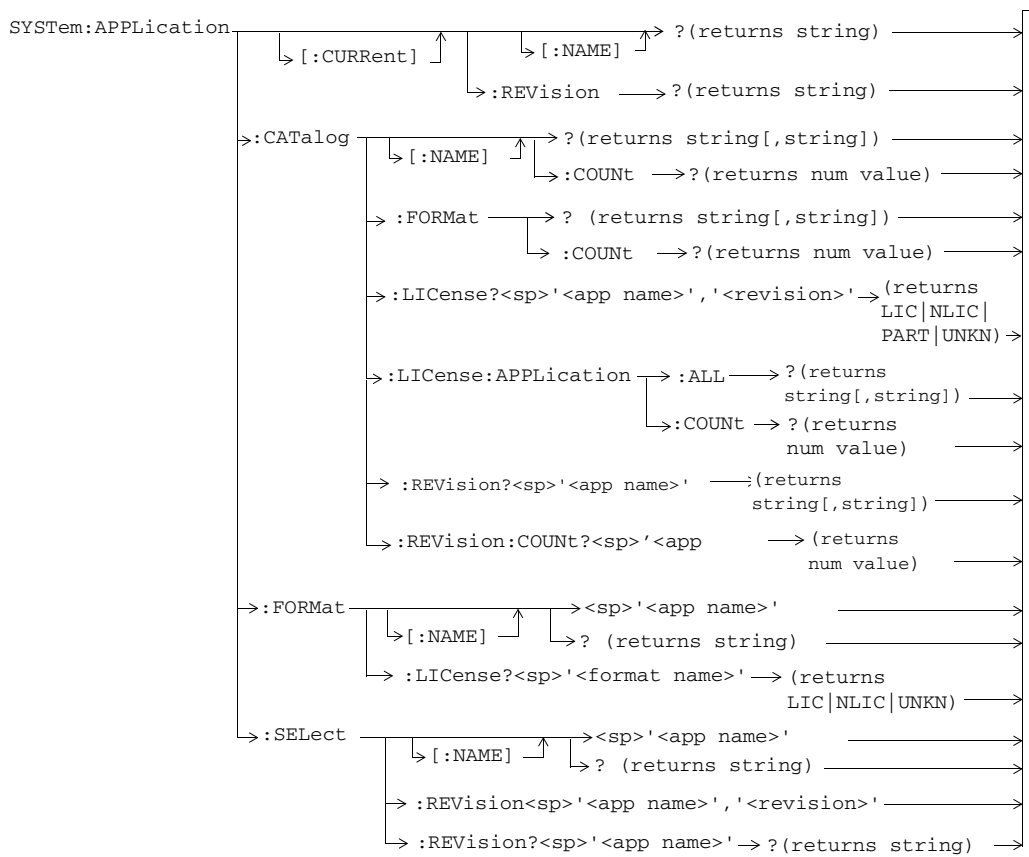
***ESE?**

*ESE? —————> Reads the Std Event Status Register Enable Register —————>

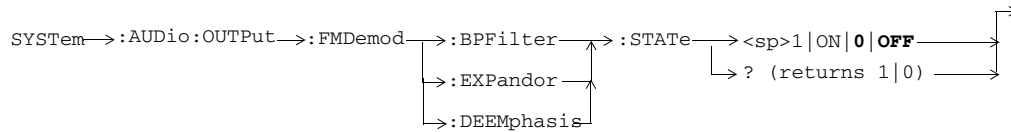
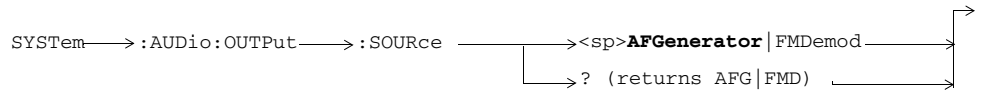
***ESE**

*ESE —————> Writes to the Std Event Status Register Enable Register —————>

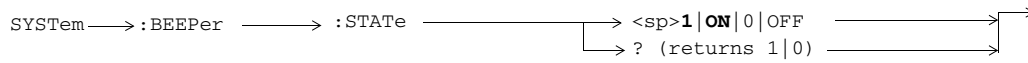
SYSTem:APPLication



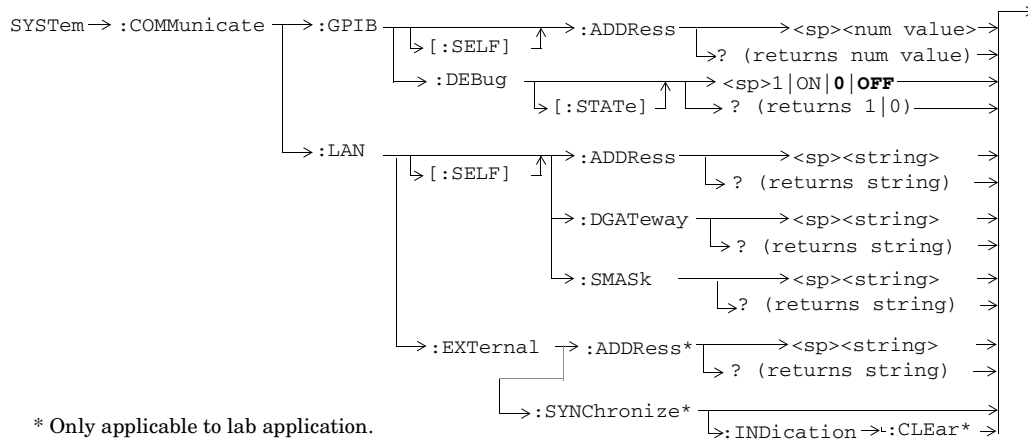
SYSTEM:Audio



SYSTEM:BEEPer



SYSTEM:COMMunicate

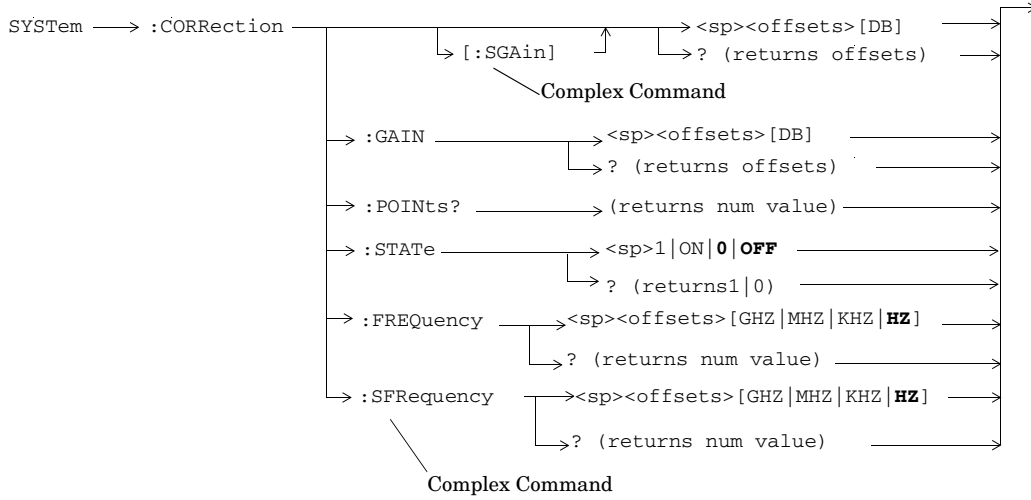


* Only applicable to lab application.

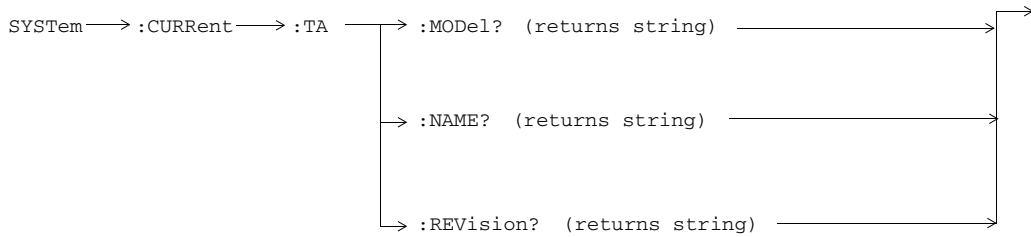
SYSTEM:CONFigure

SYSTEM → :CONFigure → :INformation → :HARDware → :VERBose? →

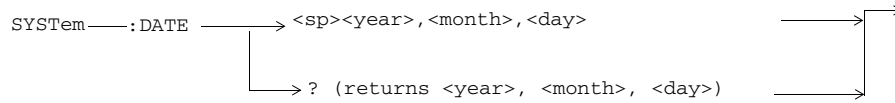
SYSTEM:CORRection



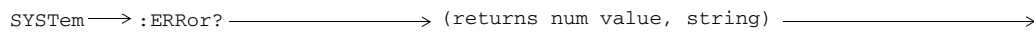
SYSTEM:CURRent:TA



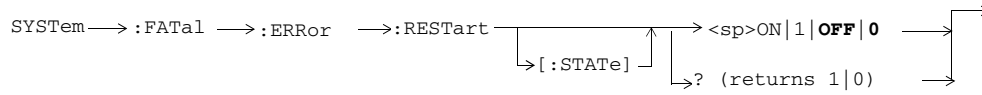
SYSTEM:DATE



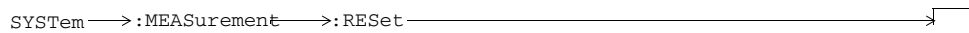
SYSTEM:ERROR?



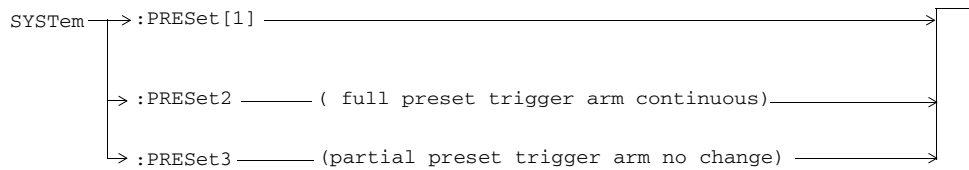
SYSTEM:FATAL



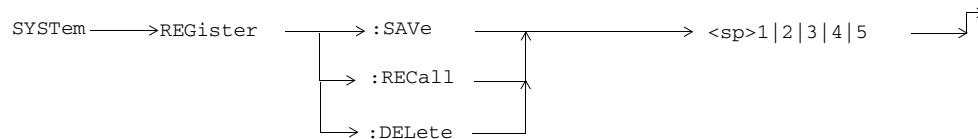
SYSTEM:MEASUREMENT:RESET



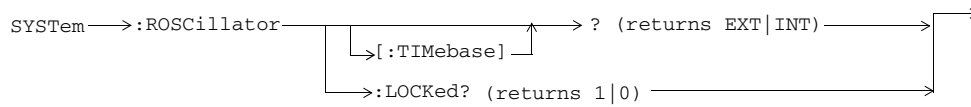
SYSTEM:PRESET



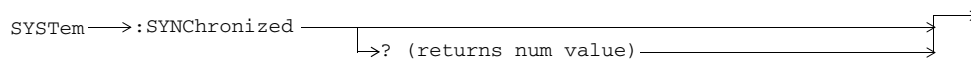
SYSTEM:REGISTER



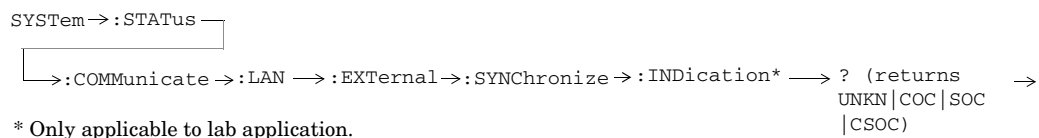
SYSTEM:ROSCillator



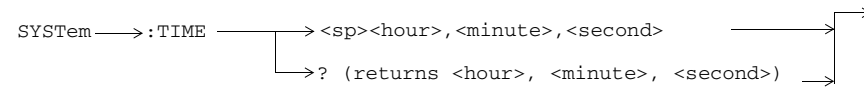
SYSTEM:SYNChronized



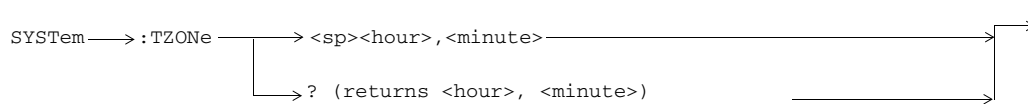
SYSTEM:STATus



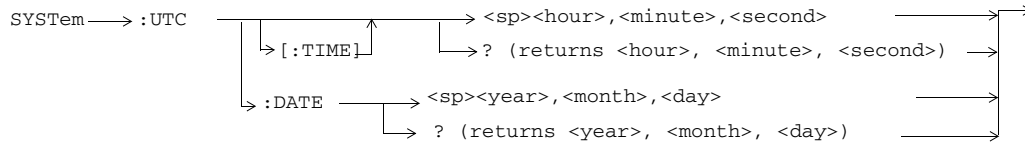
SYSTEM:TIME



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

GPIB Syntax for E1966A and E6706A/T

***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.

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To find a syntax equivalent for a field on the Test Set's display.

1. Find the field name on the Test Set's display.
2. Look up the name in the alphabetical listing.
3. Turn to the page indicated.

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