GPIB Command Syntax

for

E1962B cdma2000/IS-95/AMPS Mobile Test Application Revision B.06

E6702A cdma2000 Lab Application Revision A.01

1000-1850 (to order use part number **5971-5952)**

Agilent Technologies

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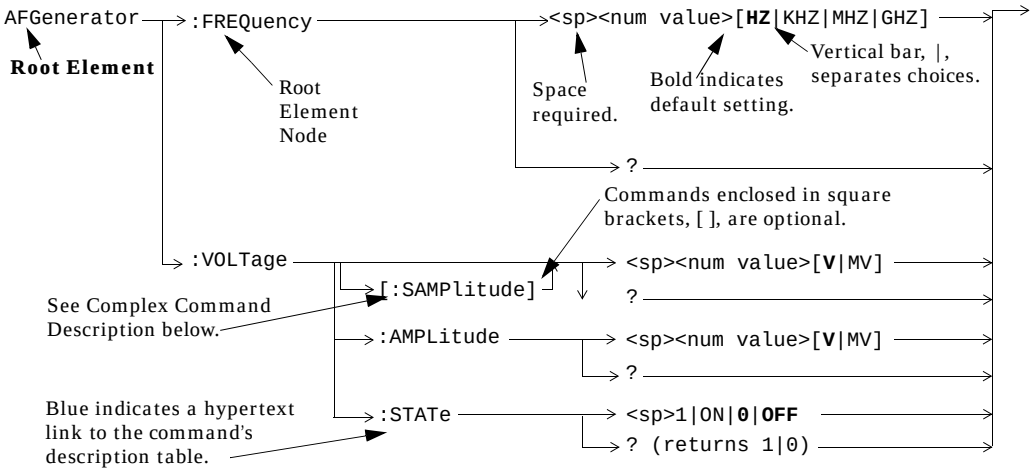
Diagram Conventions

Description



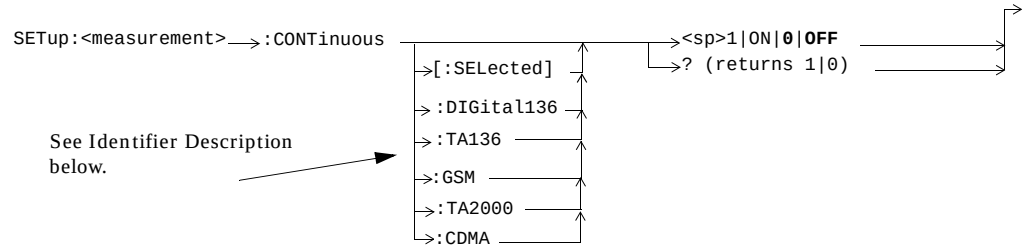


Diagram Description

Statement elements 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 statement elements that can be generated by starting at the **Root Element** and following the line the **direction of the arrow** is syntactically correct. The drawings show the proper use of spaces. Where spaces are required they are indicated by **<sp>**, otherwise no spaces are allowed between statement elements.

Complex Command Description

A complex command sets the state of the parameter to ON, and is used to set a value for that parameter. These parameters; amplitude, frequency, gain, number, time, and value can be used as a complex command. Refer to the specific command for the parameter that applies.

Identifier Description

Some test applications are able to test more than one radio format. There may be commands/queries that are shared by more than one radio format in the some of these test applications. Identifiers are used to specify the radio format for the command/query. The command/query is sent to the active radio format if you don't use an identifier. An identifier must be used when sending commands to the inactive radio format.

Developing Code

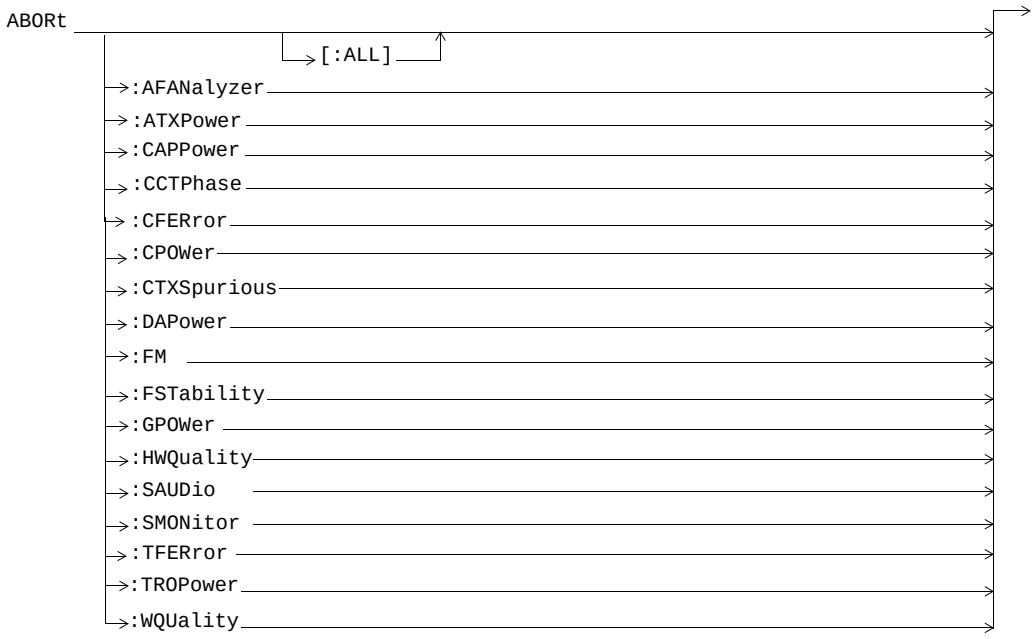
It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

```
SYSTem:COMMunicate:GPIB:DEBug ON
```

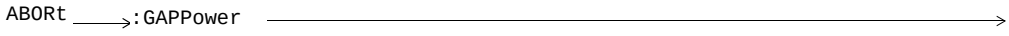
Units-of-Measure

Amplitude (linear)	V
Frequency	Hz
Power (logarithmic)	dBm
Time	s

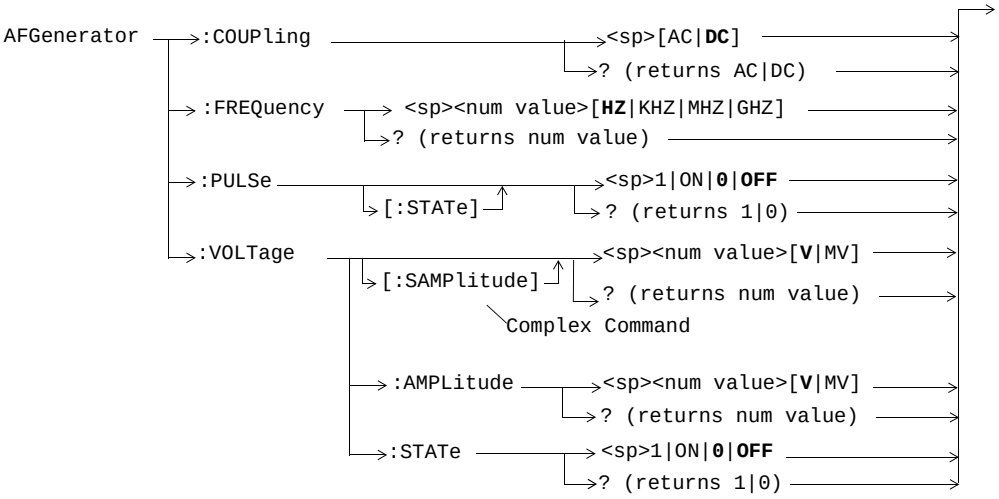
ABORt


ABORt
[:ALL]
:AFANalyzer
:ATXPower
:CAPPower
:CCTPhase
:CFERror
:CPOWer
:CTXSpurious
:DAPower
:FM
:FSTability
:GPOWer
:HWQuality
:SAUDio
:SMONitor
:TFERror
:TROPower
:WQUality

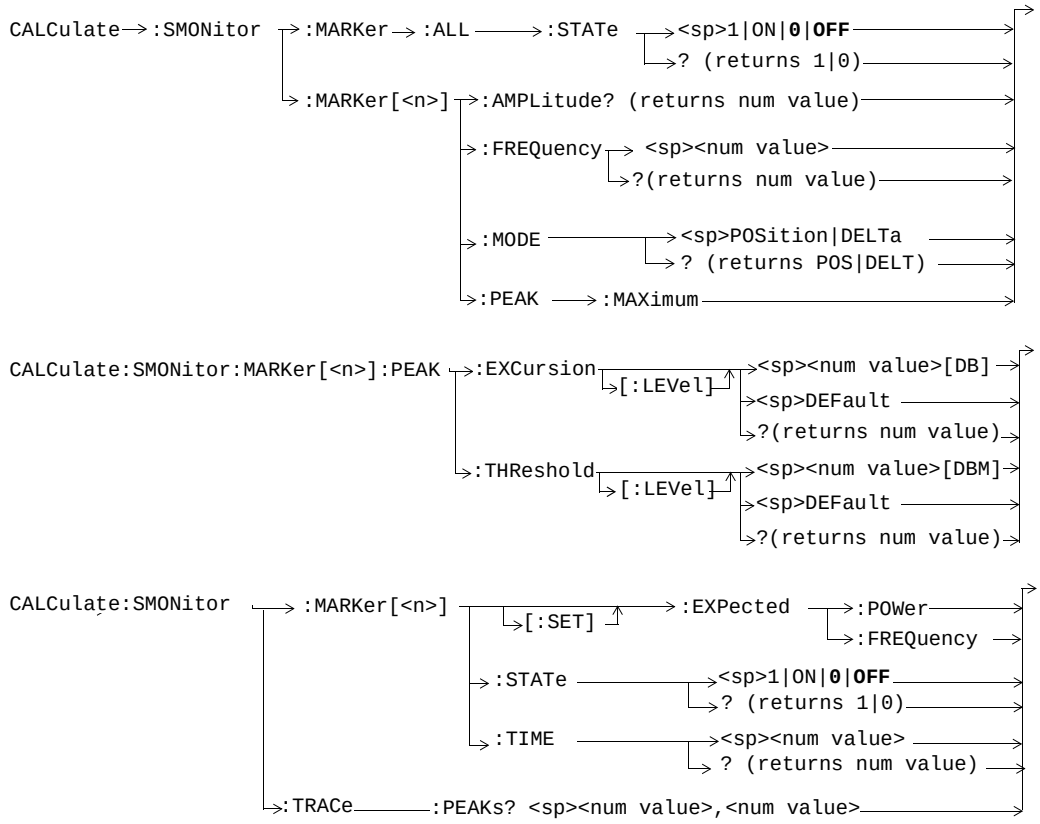
ABORt



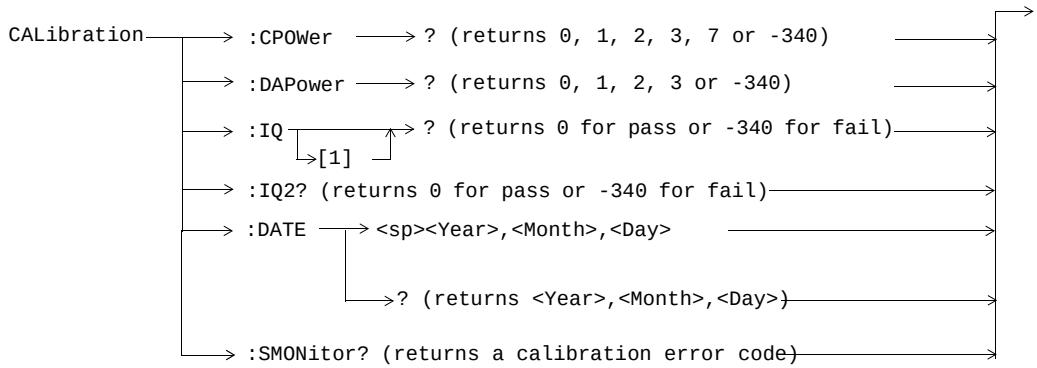
AFGenerator



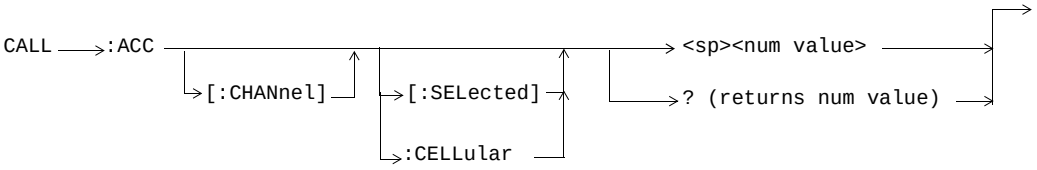
CALCulate:SMONitor



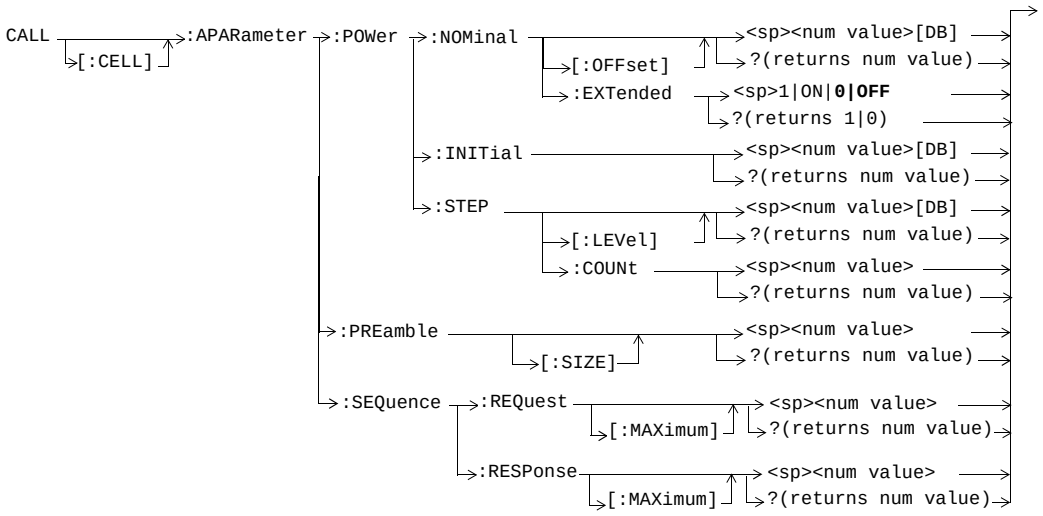
CALibration



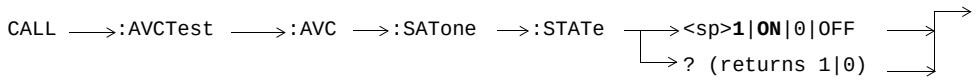
CALL:ACC



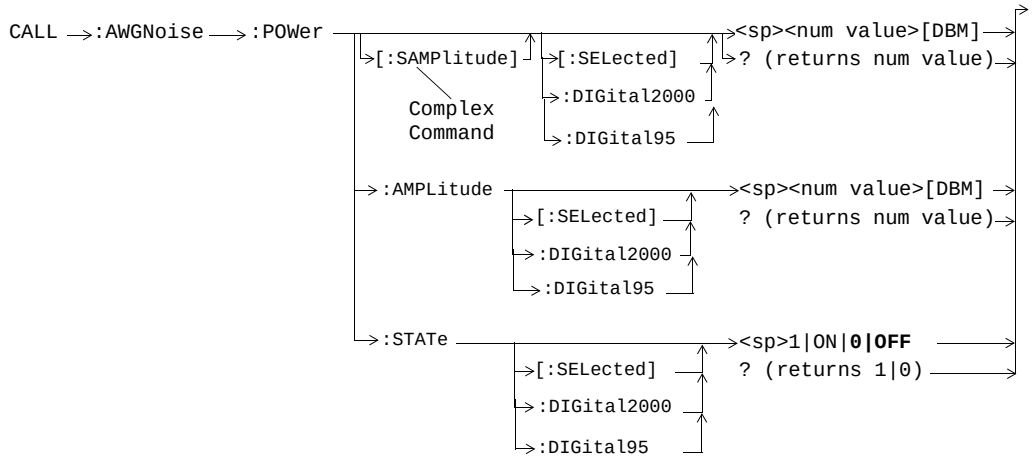
CALL:APARameter



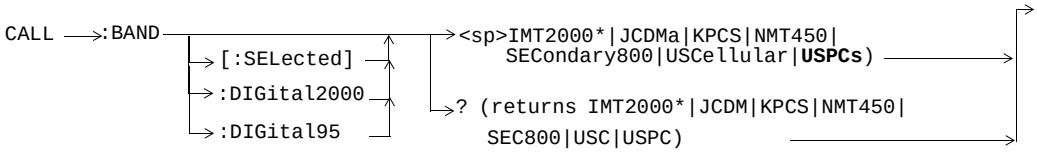
CALL:AVCTest



CALL:AWGNoise

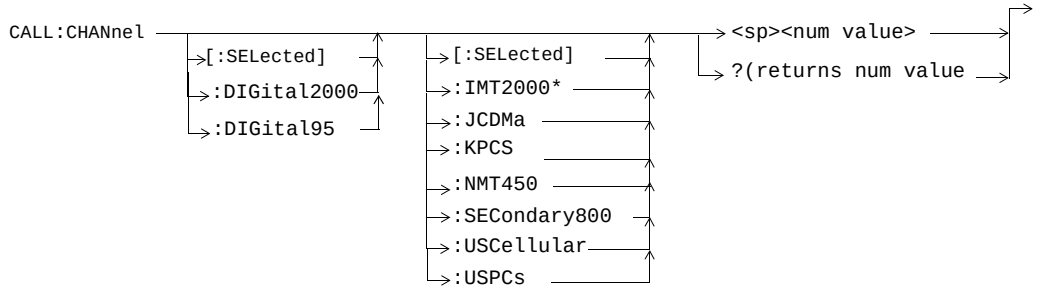


CALL:BAND



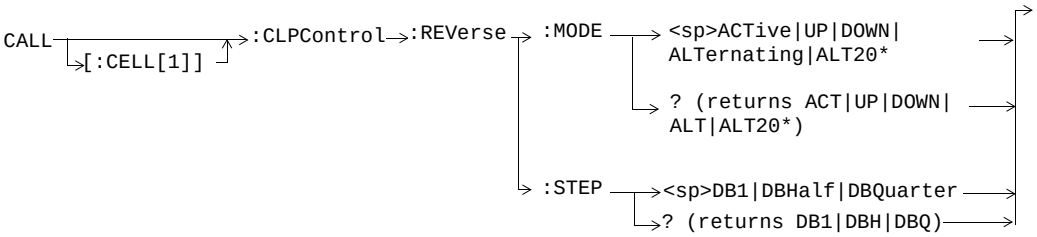
* Does not apply to DIGital95

CALL:CHANnel

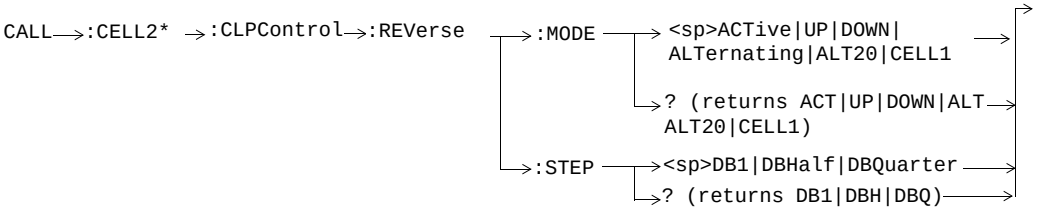


* Does not apply to DIGital95

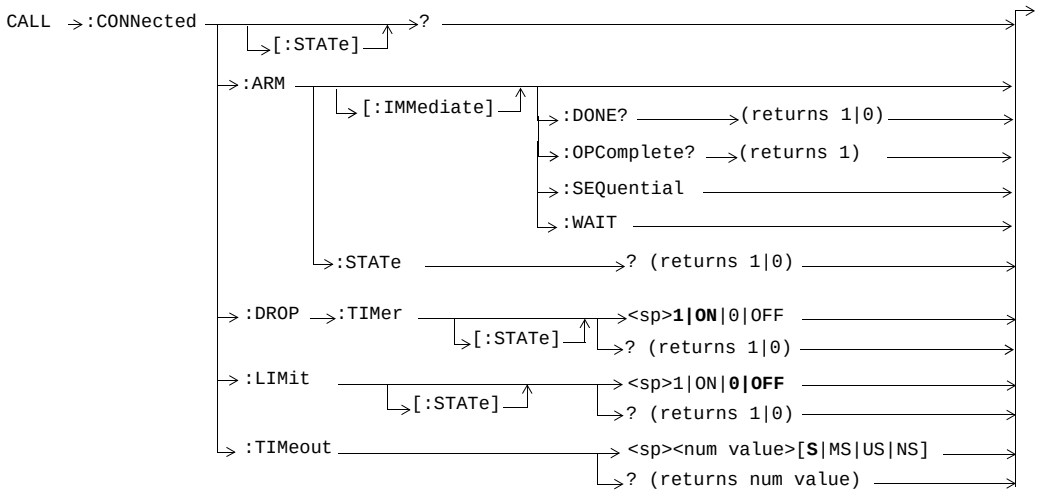
CALL:CLPControl



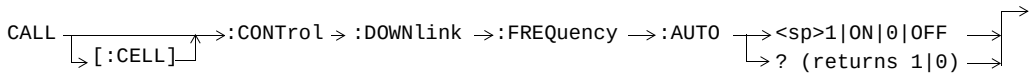
CALL:CELL2:CLPControl



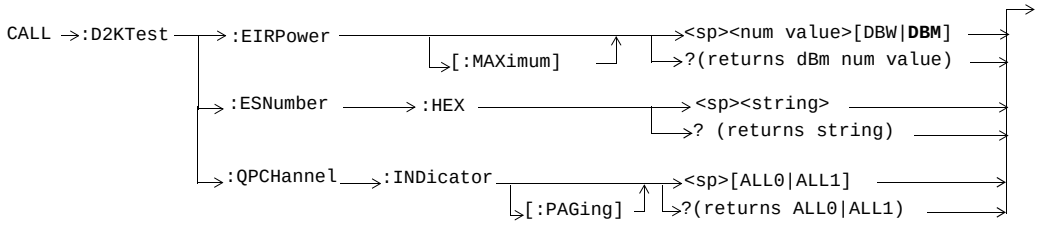
CALL:CONNected



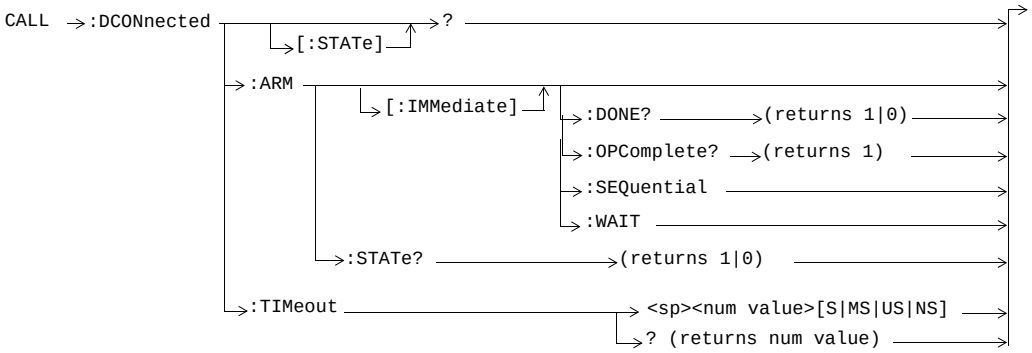
CALL:CONTrol



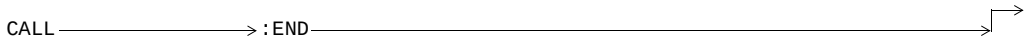
CALL:D2KTest



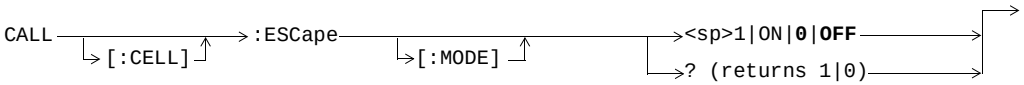
CALL:DCONnected



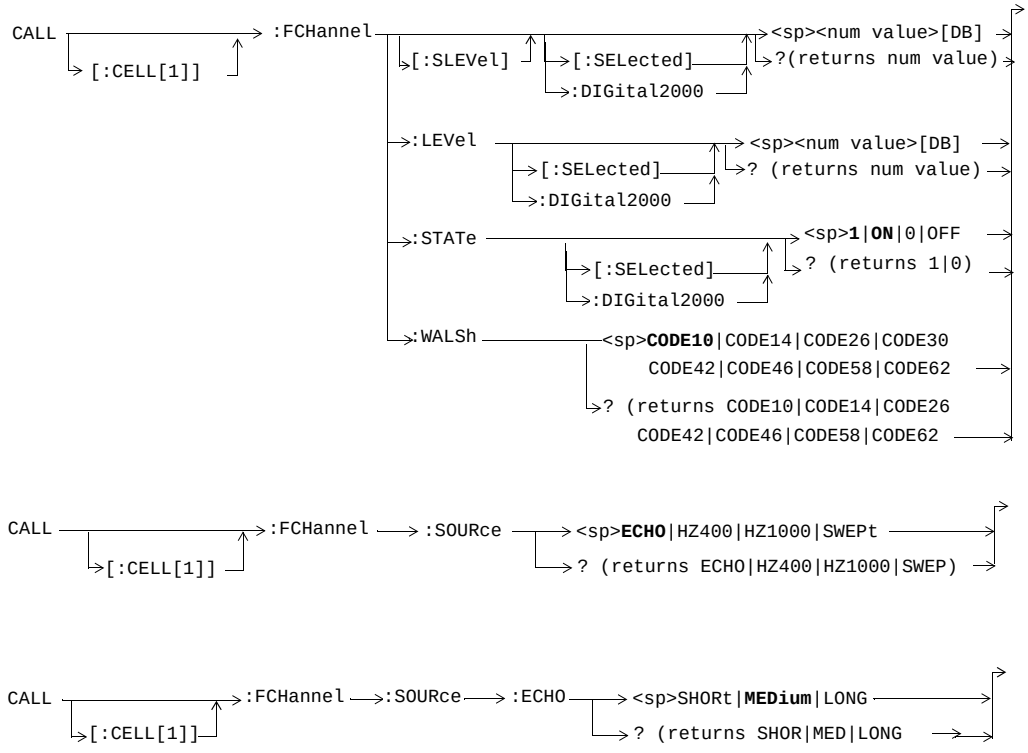
CALL:END



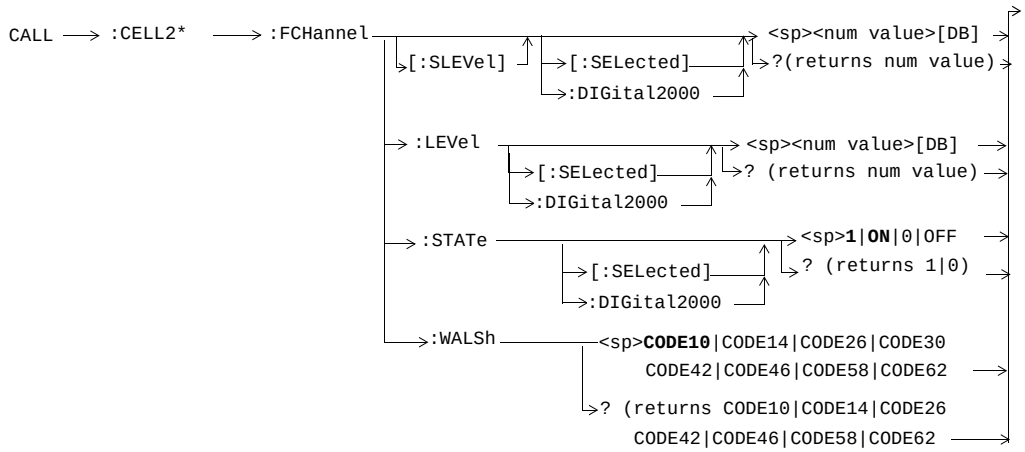
CALL:ESCape



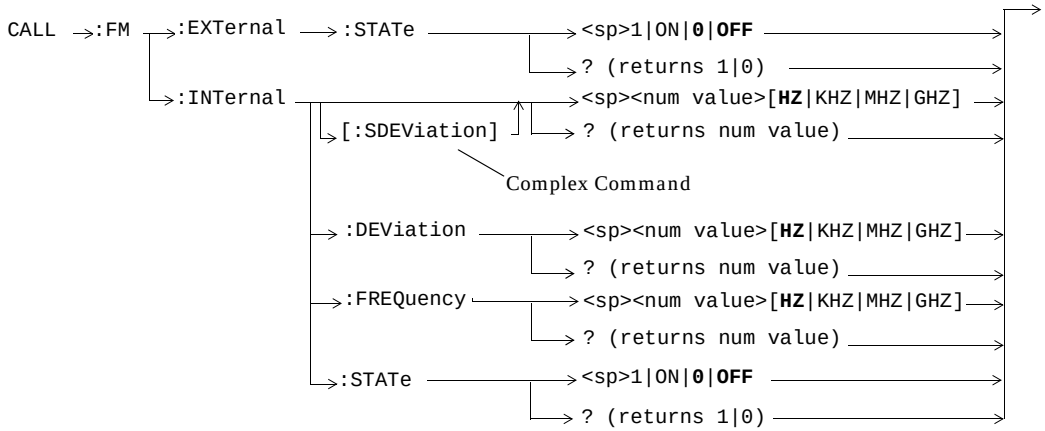
CALL:FCHannel



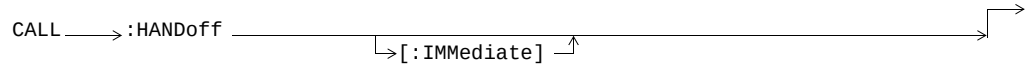
CALL:CELL2:FCHannel



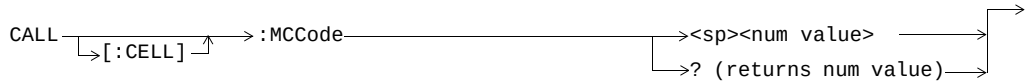
CALL:FM



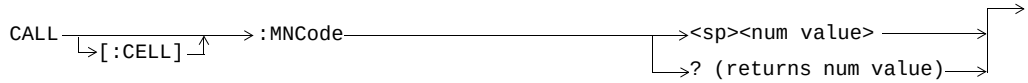
CALL:HANDoff



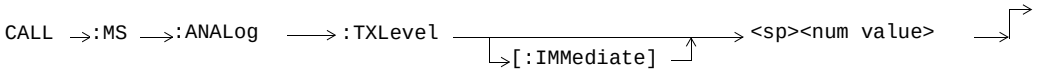
CALL:MCCode



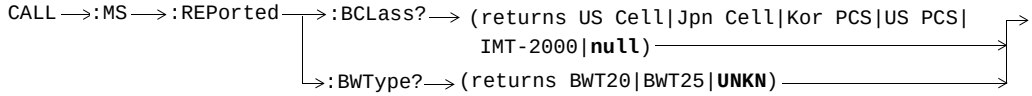
CALL:MNCode



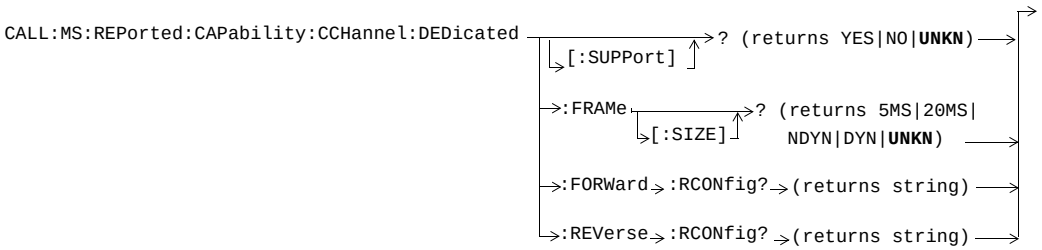
CALL:MS:ANALog



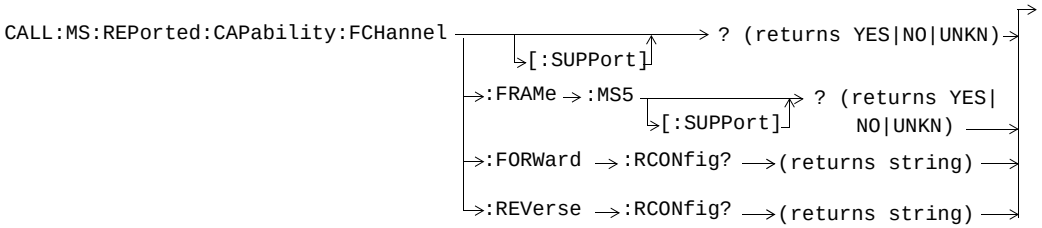
CALL:MS:REPorted<:BCLass|:BWType>



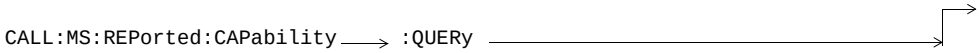
CALL:MS:REPorted:CAPability:CCHannel



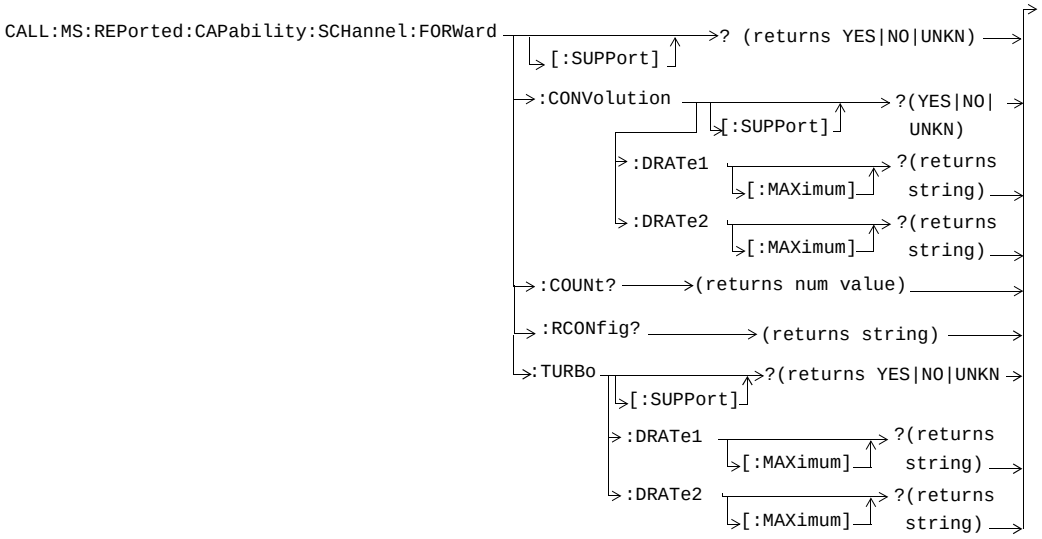
CALL:MS:REPorted:CAPability:FCHannel

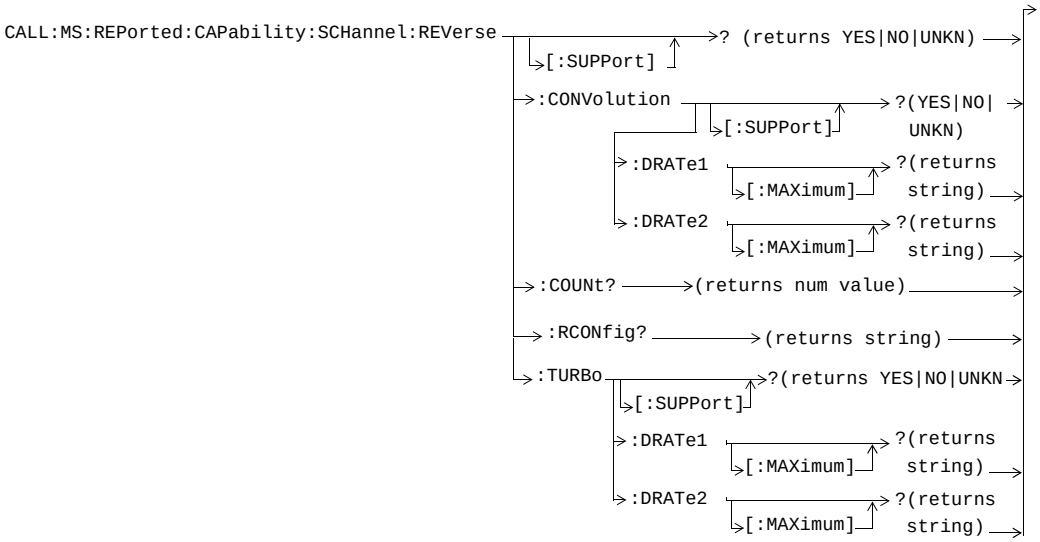


CALL:MS:REPorted:CAPability:QUERy

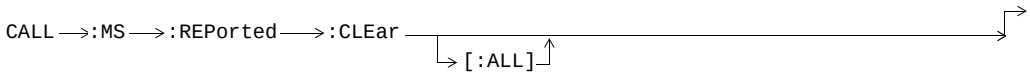


CALL:MS:REPorted:CAPabiltiy:SCHannel

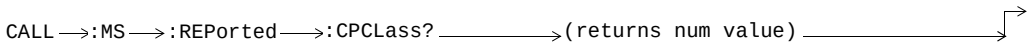



CALL:MS:REPorted:CAPability:SCHannel:REVerse
? (returns YES|NO|UNKN)
[:SUPPort]
:CONVolution
?(YES|NO|UNKN)
[:SUPPort]
:DRATe1
?(returns string)
[:MAXimum]
:DRATe2
?(returns string)
[:MAXimum]
:COUNt?
(returns num value)
:RCONfig?
(returns string)
:TURBo
?(returns YES|NO|UNKN
[:SUPPort]
:DRATe1
?(returns string)
[:MAXimum]
:DRATe2
?(returns string)
[:MAXimum]

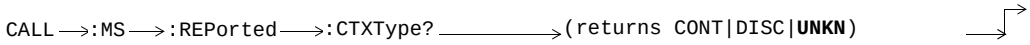
CALL:MS:REPorted:CLEar



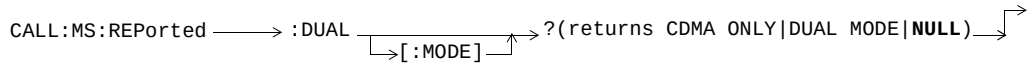
CALL:MS:REPorted:CPCLass



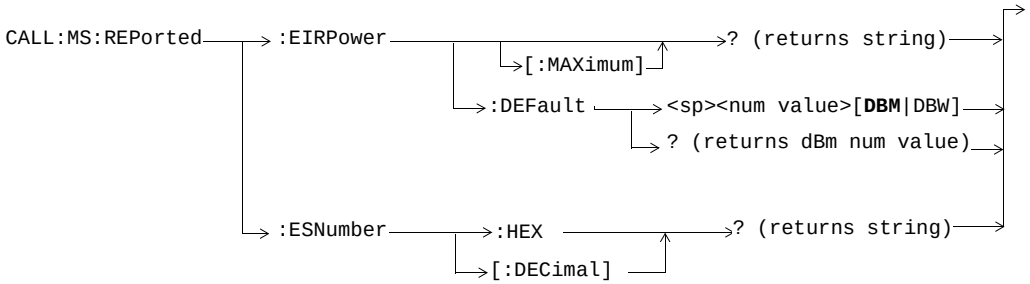
CALL:MS:REPorted:CTXType



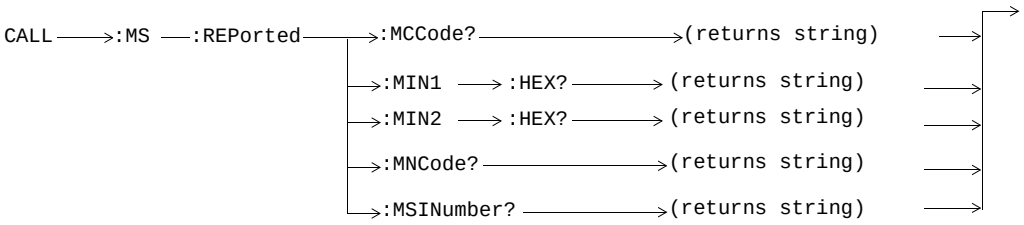
CALL:MS:REPorted:DUAL



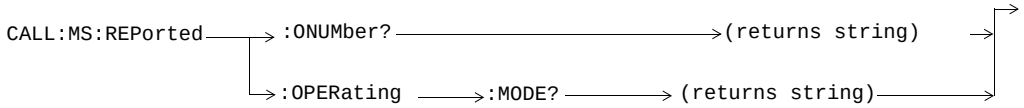
CALL:MS:REPorted<:EIRPower|:ESNumber>



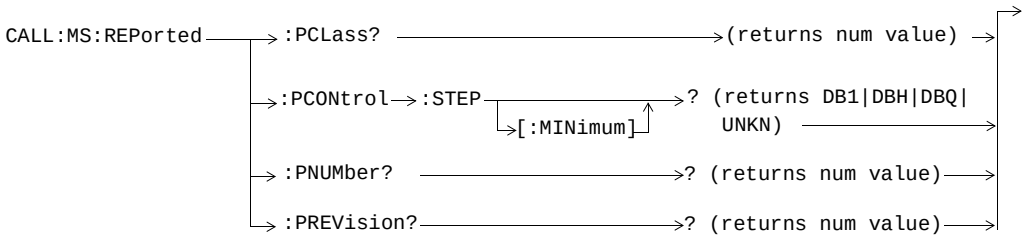
CALL:MS:REPorted<:MCCode|:MIN1|:MIN2|:MNCode|MSINumber>



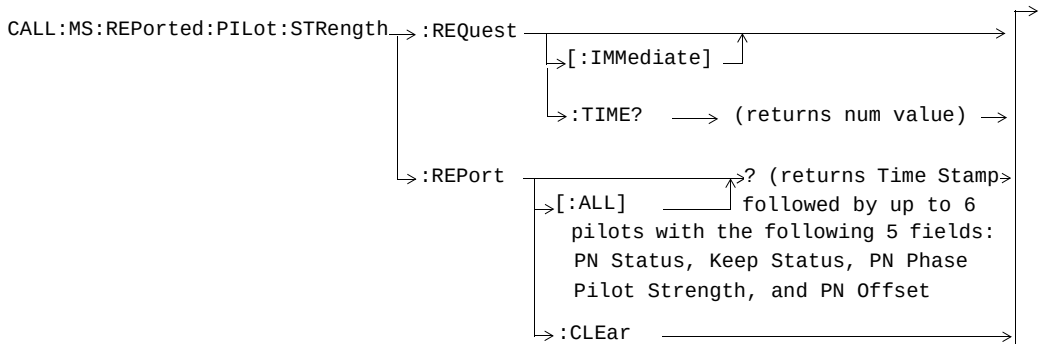
CALL:MS:REPorted<:ONUMber|:OPERating>



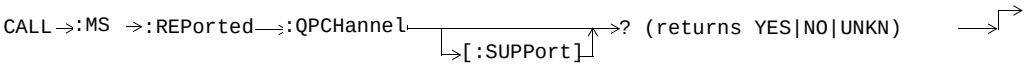
CALL:MS:REPorted<:PCLass|:PCONtrol|:PNUMber|:PREVision>



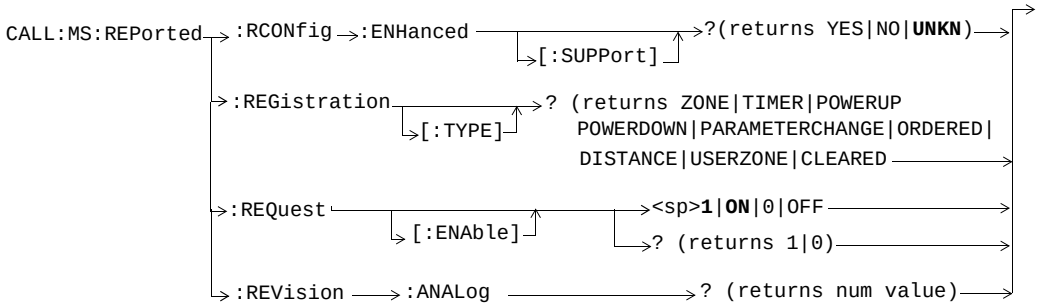
CALL:MS:REPorted:PILot:STRength



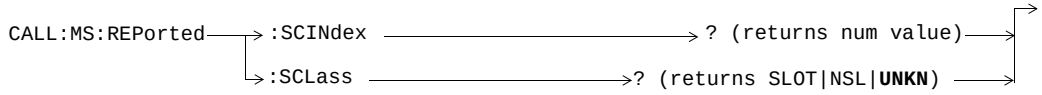
CALL:MS:REPorted:QPCHannel



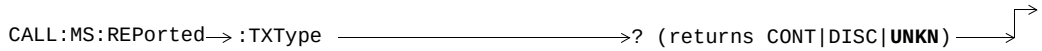
CALL:MS:REPorted<:RCONfig|:REGistration|:REQuest|:REVision>



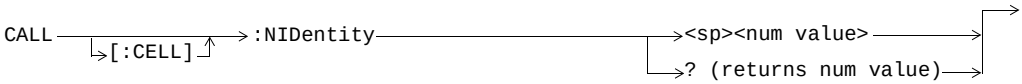
CALL:MS:REPorted<:SCINdex|:SCLass>



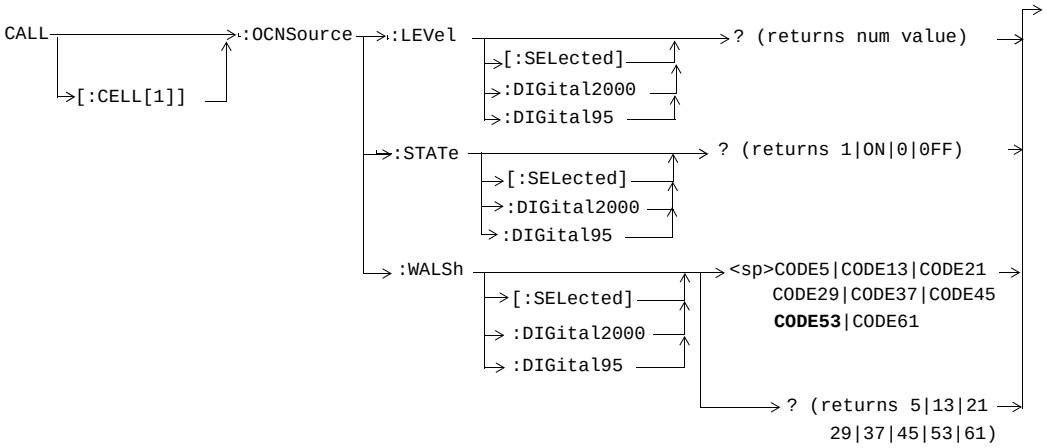
CALL:MS:REPorted:TXType



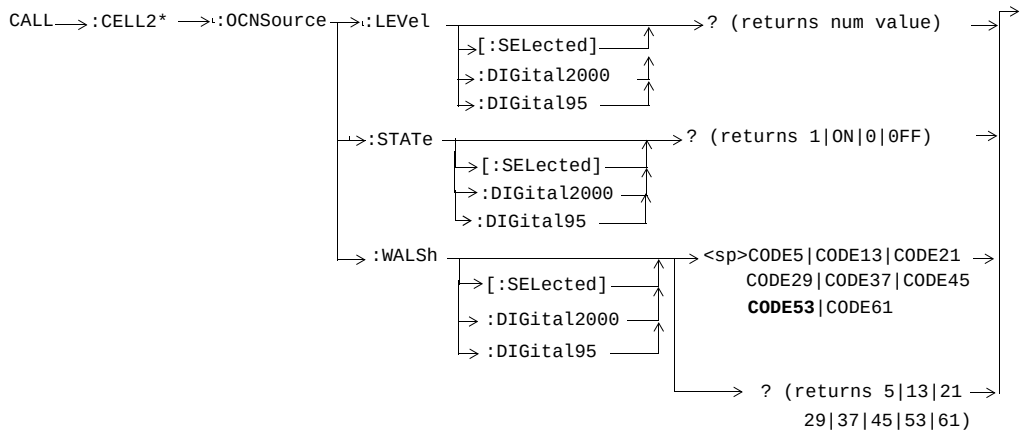
CALL:NIDentity



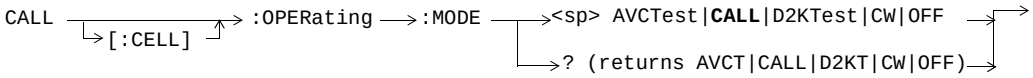
CALL:OCNSource



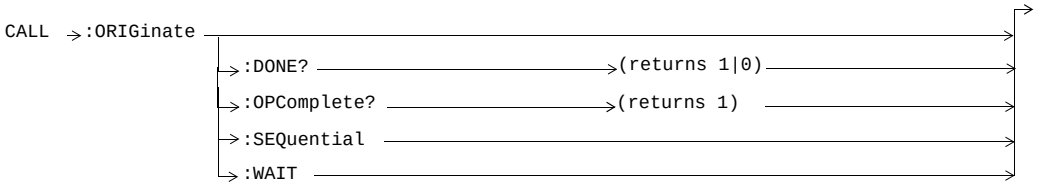
CALL:CELL2:OCNSource



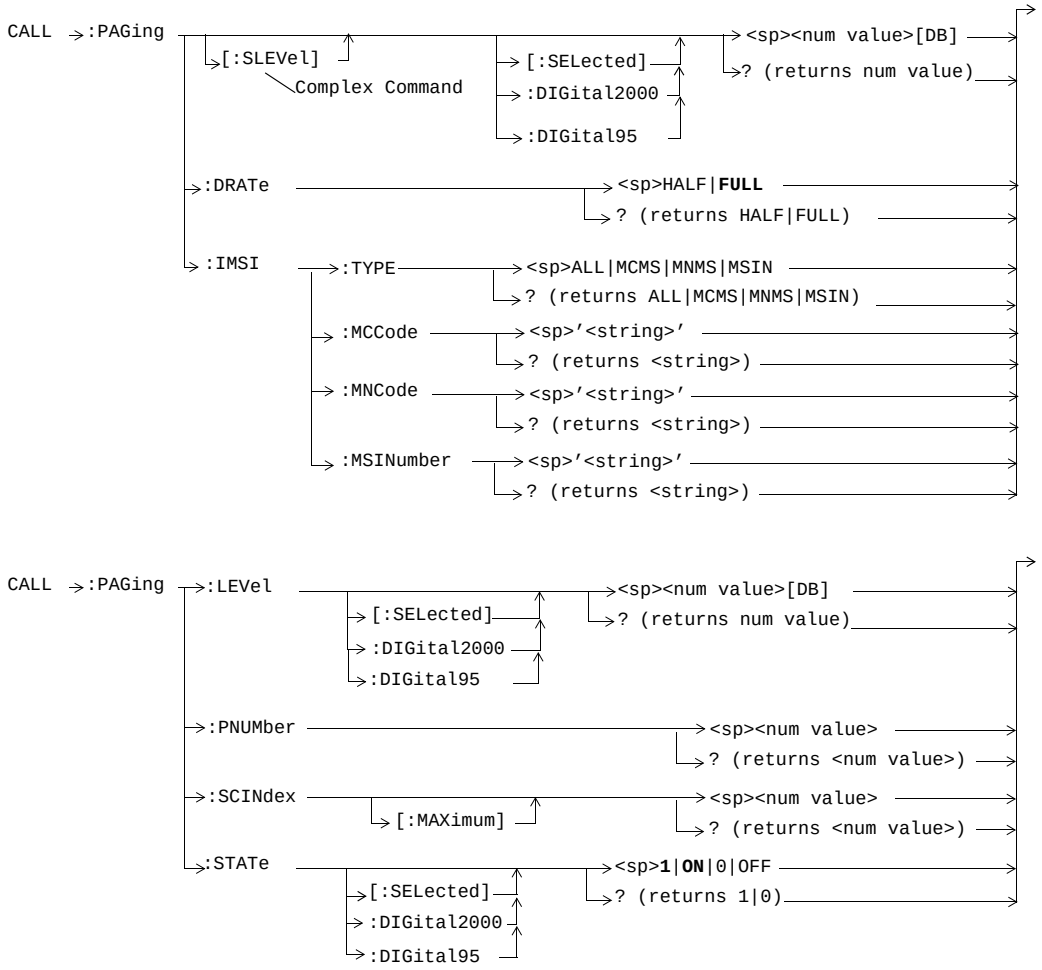
CALL:OPERating



CALL:ORIGinate

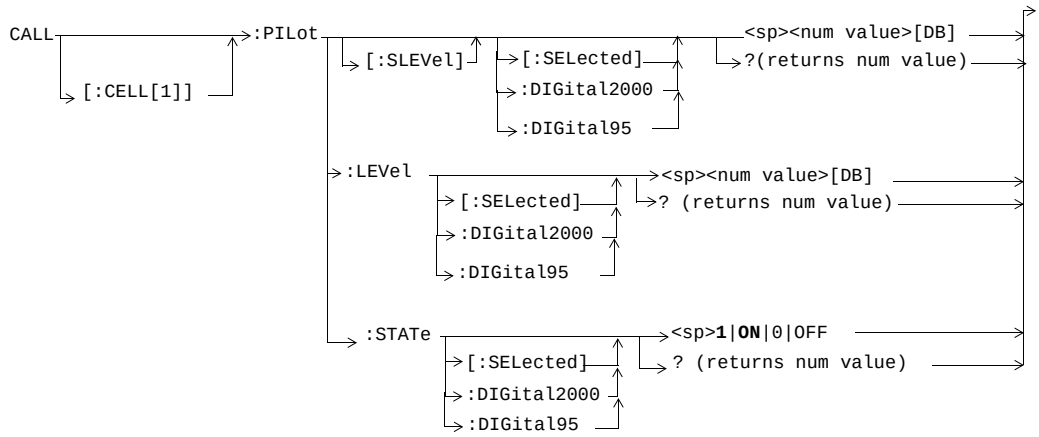


CALL:PAGing

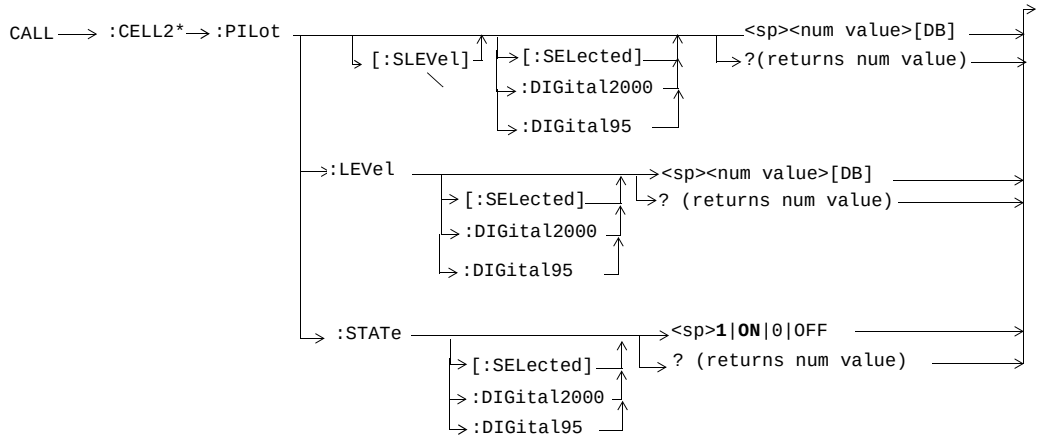

CALL
:PAGing
[:SLEVel]
Complex Command
[:SELected]
:DIGital2000
:DIGital95
<sp><num value>[DB]
? (returns num value)
:DRATe
<sp>HALF|FULL
? (returns HALF|FULL)
:IMSI
:TYPE
<sp>ALL|MCMS|MNMS|MSIN
? (returns ALL|MCMS|MNMS|MSIN)
:MCCode
<sp>'<string>'
? (returns <string>)
:MNCode
<sp>'<string>'
? (returns <string>)
:MSINumber
<sp>'<string>'
? (returns <string>)

CALL
:PAGing
:LEVel
[:SELected]
:DIGital2000
:DIGital95
<sp><num value>[DB]
? (returns num value)
:PNUMber
<sp><num value>
? (returns <num value>)
:SCINdex
[:MAXimum]
<sp><num value>
? (returns <num value>)
:STATe
[:SELected]
:DIGital2000
:DIGital95
<sp>1|ON|0|OFF
? (returns 1|0)

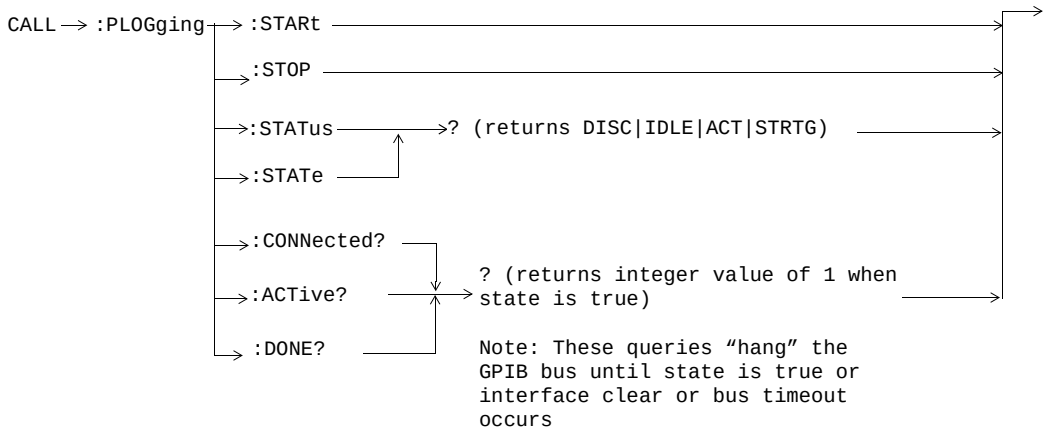
CALL:PILot



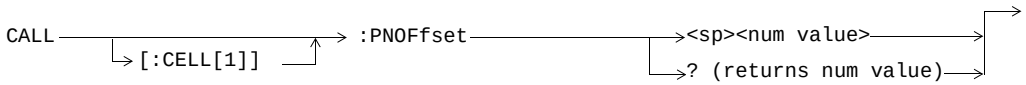
CALL:CELL2:PILot



CALL:PLOGging

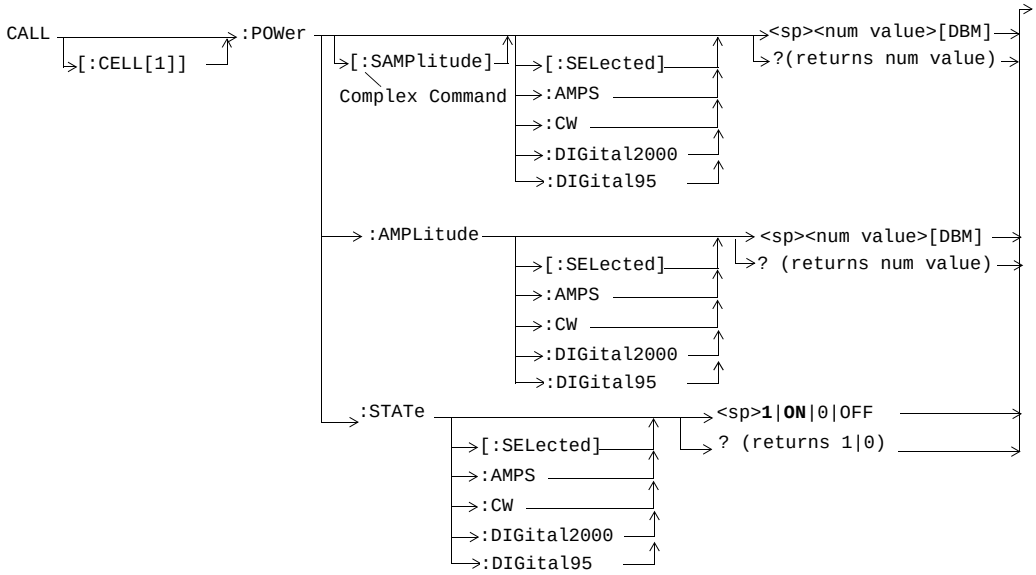


CALL:PNOFfset

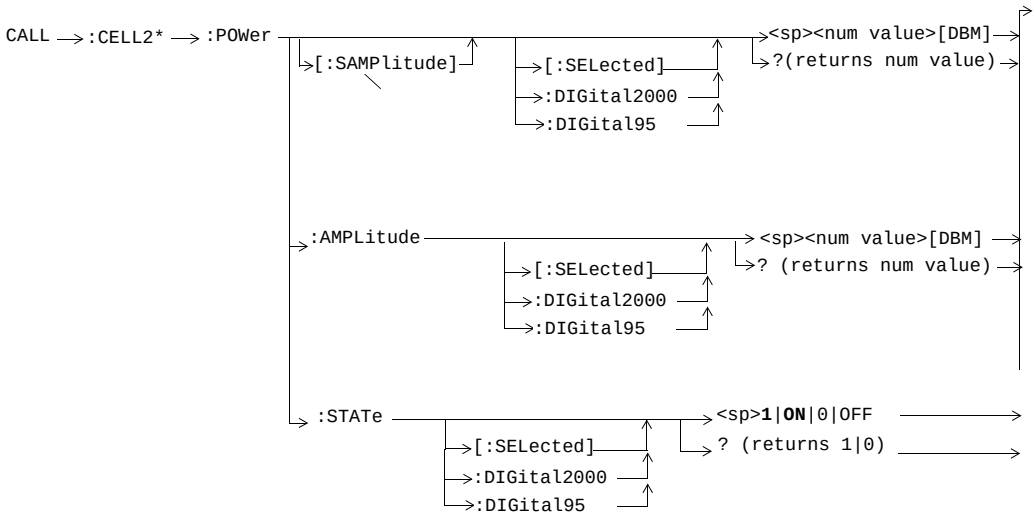


CALL:CELL2:PNOFfset

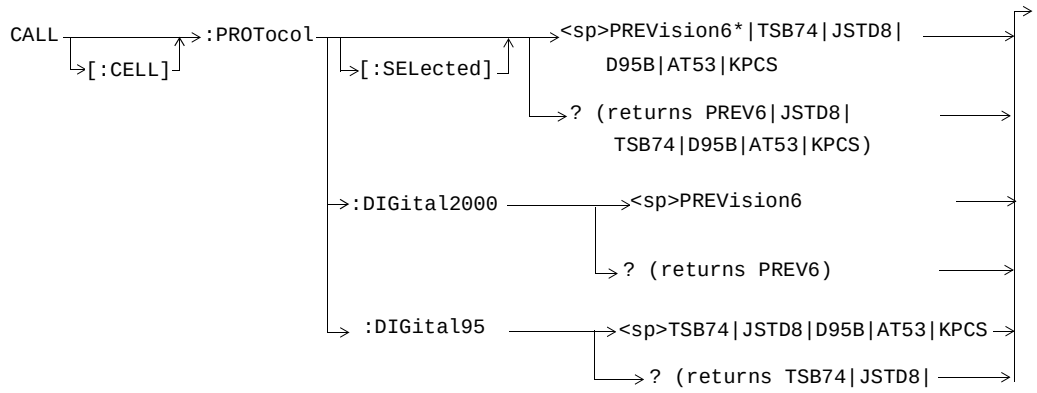
CALL:POWer


CALL
[:CELL[1]]
:POWer
[:SAMPlitude]
Complex Command
[:SELected]
:AMPS
:CW
:DIGital2000
:DIGital95
<sp><num value>[DBM]
?(returns num value)
:AMPLitude
[:SELected]
:AMPS
:CW
:DIGital2000
:DIGital95
<sp><num value>[DBM]
? (returns num value)
:STATe
[:SELected]
:AMPS
:CW
:DIGital2000
:DIGital95
<sp>1|ON|0|OFF
? (returns 1|0)

CALL:CELL2:POWer

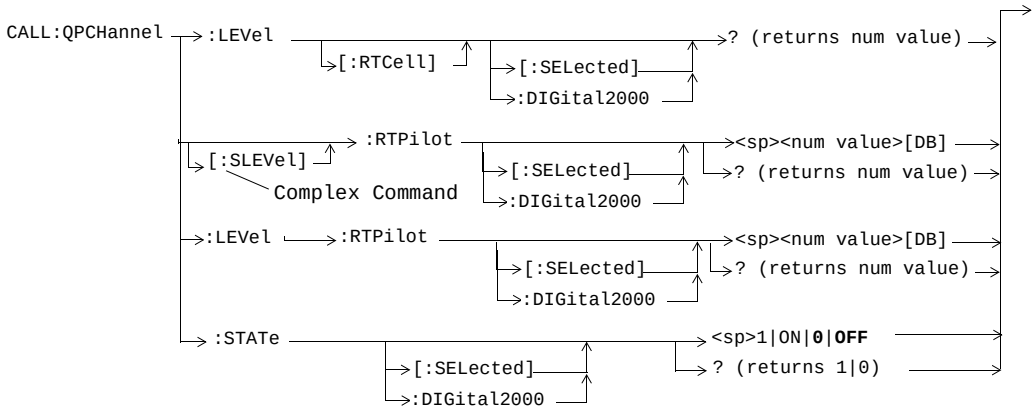


CALL:PROTocol

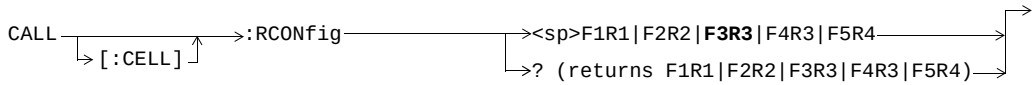


* Does not apply to DIGital95

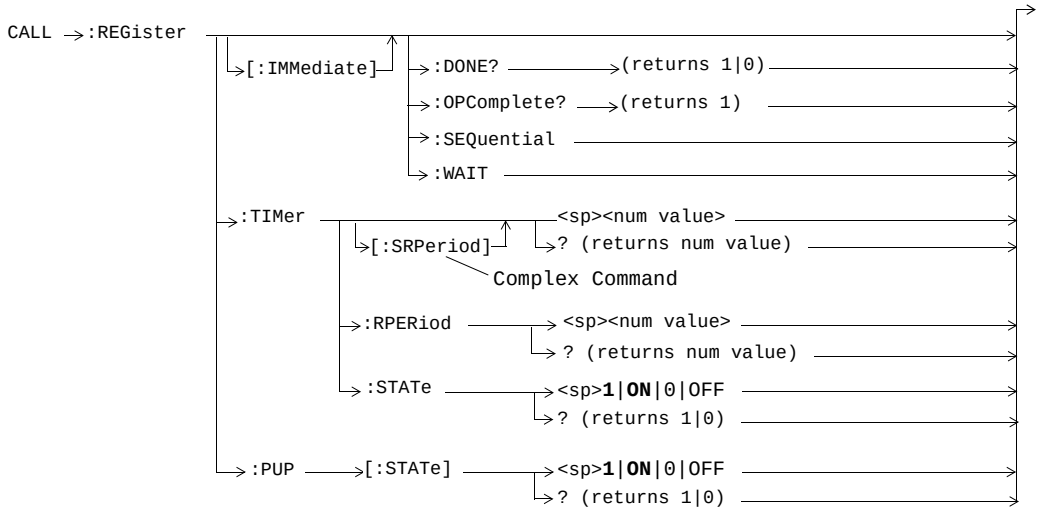
CALL:QPCHannel



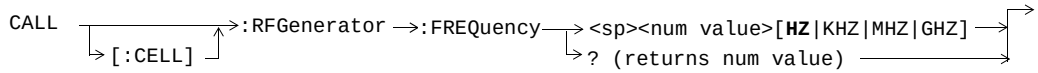
CALL:RCONfig



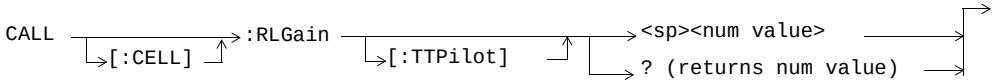
CALL:REGister



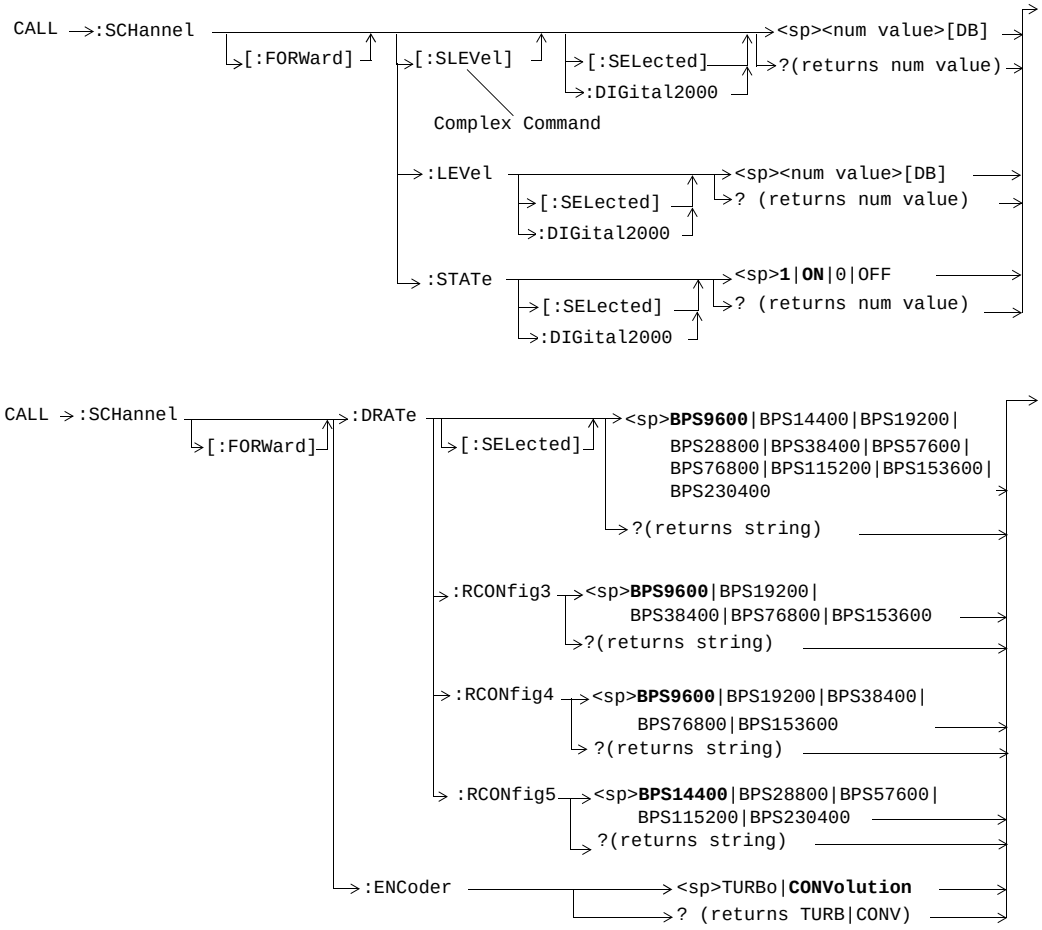
CALL:RFGenerator

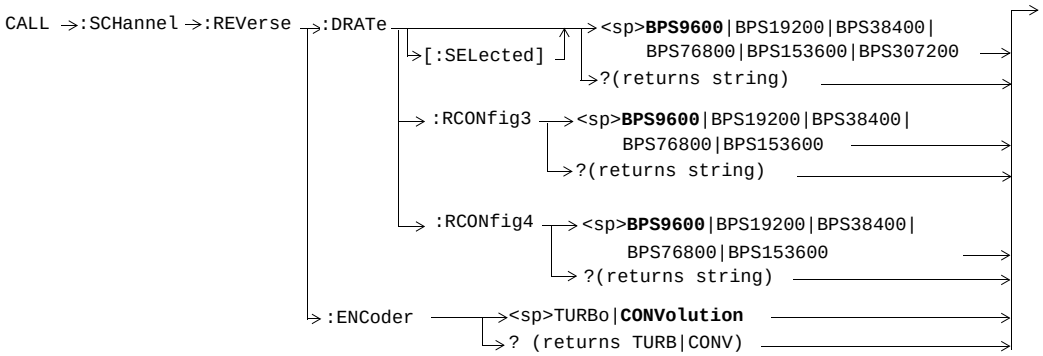


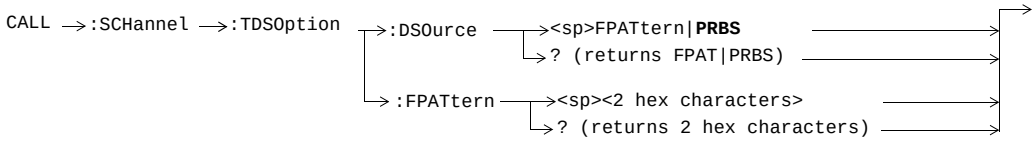
CALL:RLGain



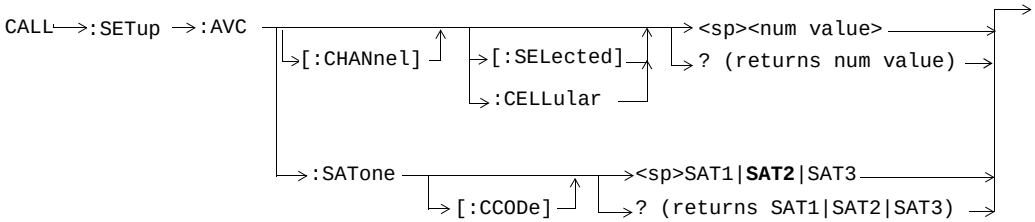
CALL:SCHannel



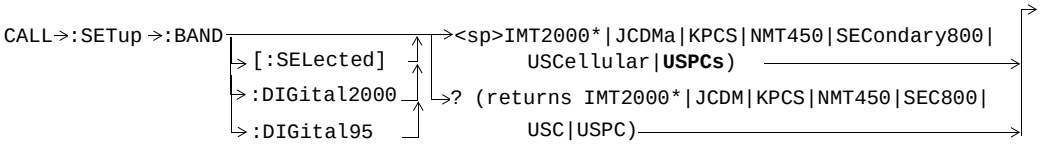

CALL
:SCHannel
:REVerse
:DRATe
[:SELected]
<sp>BPS9600|BPS19200|BPS38400|
BPS76800|BPS153600|BPS307200
?(returns string)
:RCONfig3
<sp>BPS9600|BPS19200|BPS38400|
BPS76800|BPS153600
?(returns string)
:RCONfig4
<sp>BPS9600|BPS19200|BPS38400|
BPS76800|BPS153600
?(returns string)
:ENCoder
<sp>TURBo|CONVolution
? (returns TURB|CONV)


CALL
:SCHannel
:TDSOption
:DSOurce
<sp>FPATtern|PRBS
? (returns FPAT|PRBS)
:FPATtern
<sp><2 hex characters>
? (returns 2 hex characters)

CALL:SETup:AVC

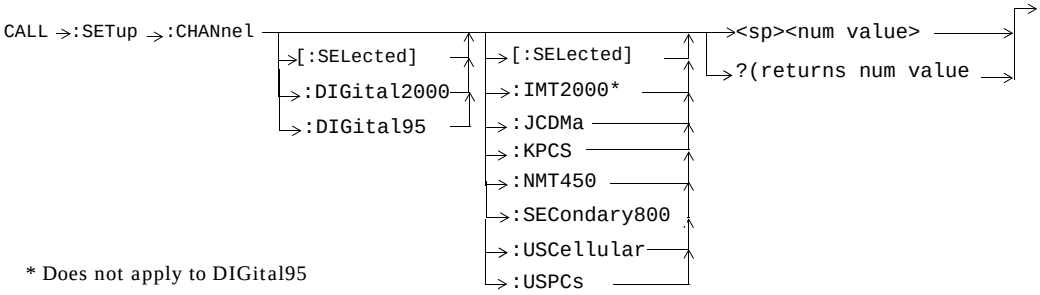


CALL:SETup:BAND



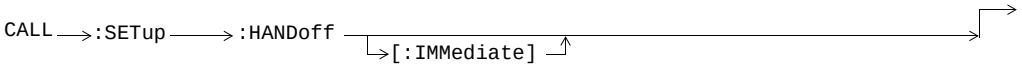
* Does not apply to DIGital95

CALL:SETup:CHANnel

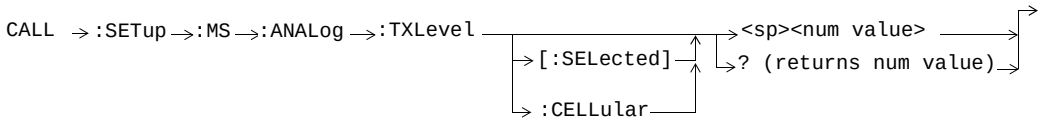


* Does not apply to DIGital95

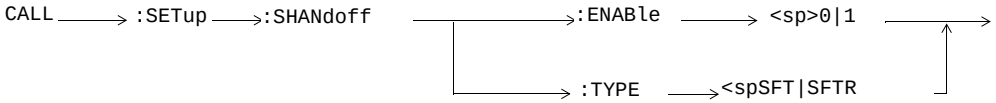
CALL:SETup:HANDoff



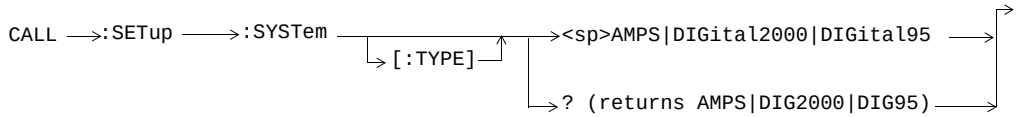
CALL:SETup:MS



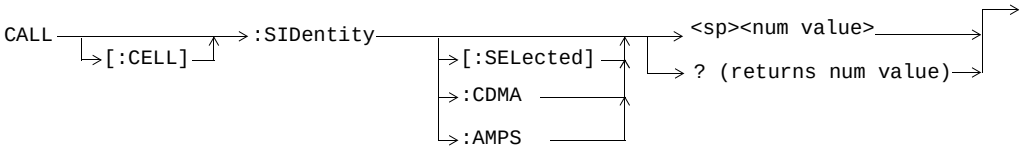
CALL:SETup:SHANdoff



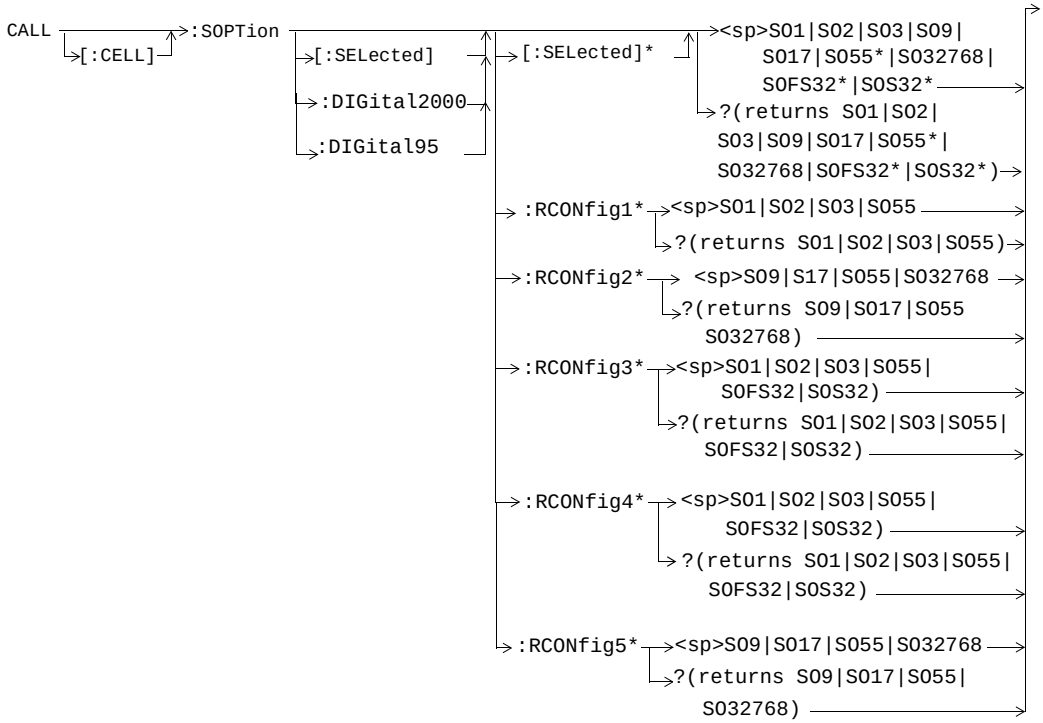
CALL:SETup:SYSTem



CALL:SIDentity

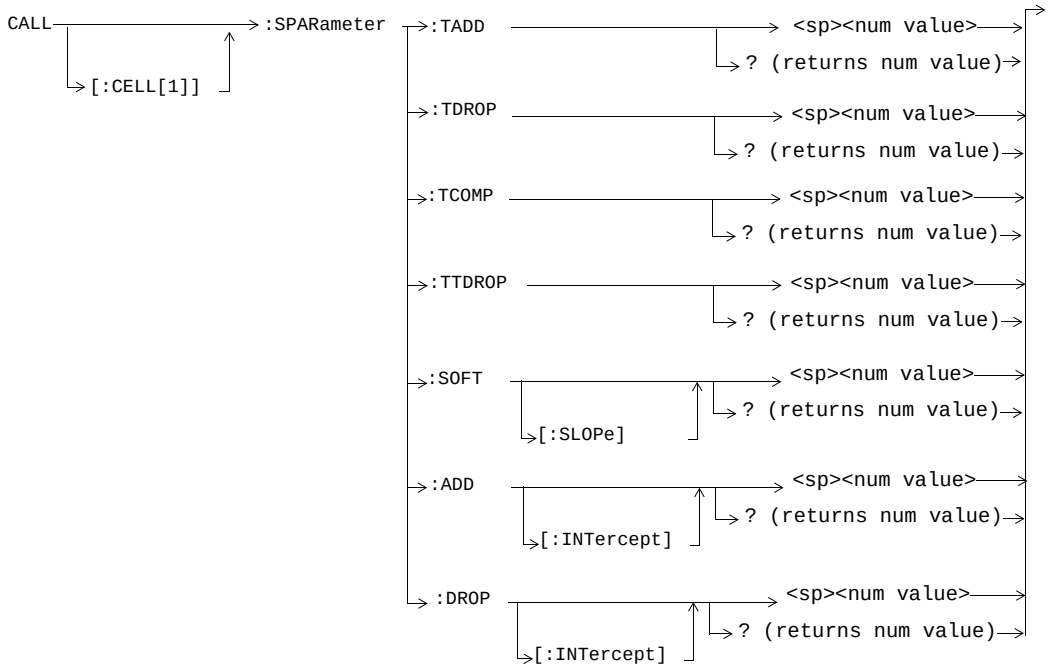


CALL:SOPTion

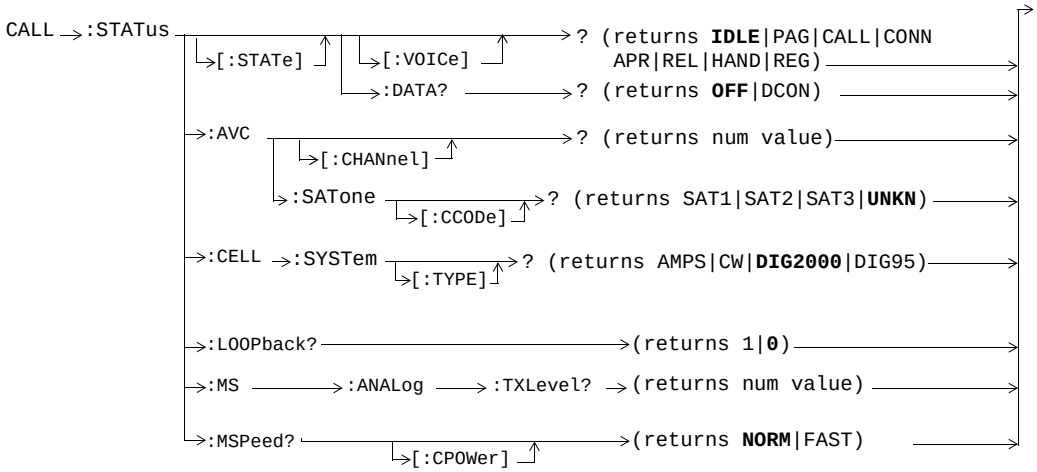


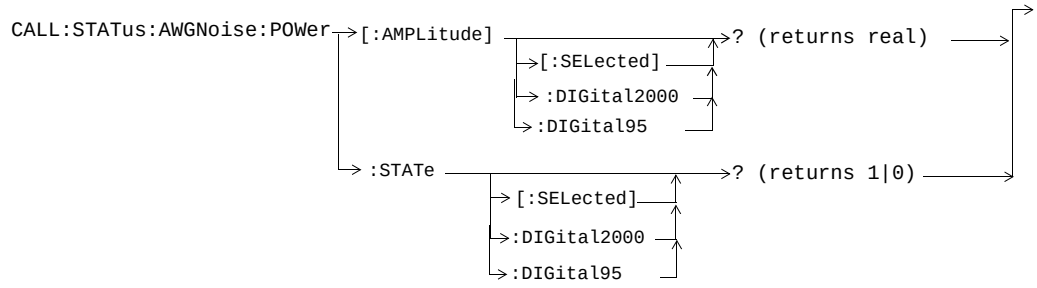
* Does not apply to DIGital95

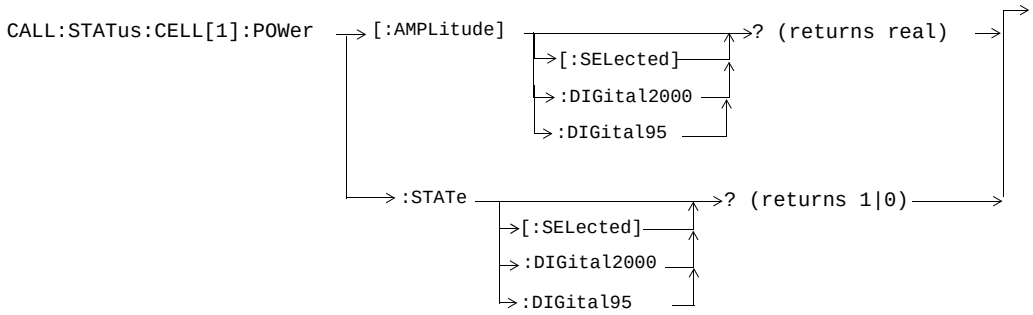
CALL[:CELL[1]]:SPARameter

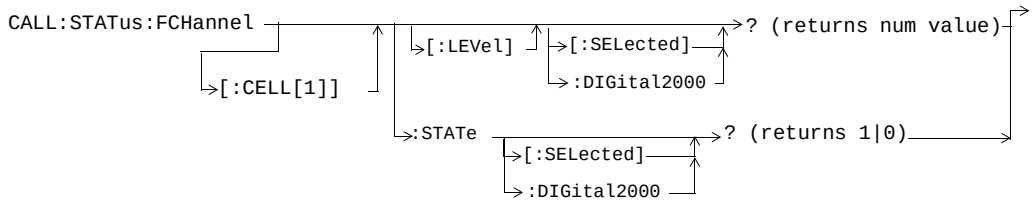


CALL:STATus


CALL
:STATus
[:STATe]
[:VOICe]
? (returns IDLE|PAG|CALL|CONN
APR|REL|HAND|REG)
:DATA?
? (returns OFF|DCON)
:AVC
? (returns num value)
[:CHANnel]
:SATone
? (returns SAT1|SAT2|SAT3|UNKN)
[:CCODe]
:CELL
:SYSTem
? (returns AMPS|CW|DIG2000|DIG95)
[:TYPE]
:LOOPback?
(returns 1|0)
:MS
:ANALog
:TXLevel?
(returns num value)
:MSPeed?
(returns NORM|FAST)
[:CPOWer]


CALL:STATus:AWGNoise:POWer
[:AMPLitude]
? (returns real)
[:SELected]
:DIGital2000
:DIGital95
:STATe
? (returns 1|0)
[:SELected]
:DIGital2000
:DIGital95


CALL:STATus:CELL[1]:POWer
[:AMPLitude]
[:SELected]
:DIGital2000
:DIGital95
? (returns real)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)


CALL:STATus:FCHannel
[:CELL[1]]
[:LEVel]
[:SELected]
:DIGital2000
? (returns num value)
:STATe
[:SELected]
:DIGital2000
? (returns 1|0)

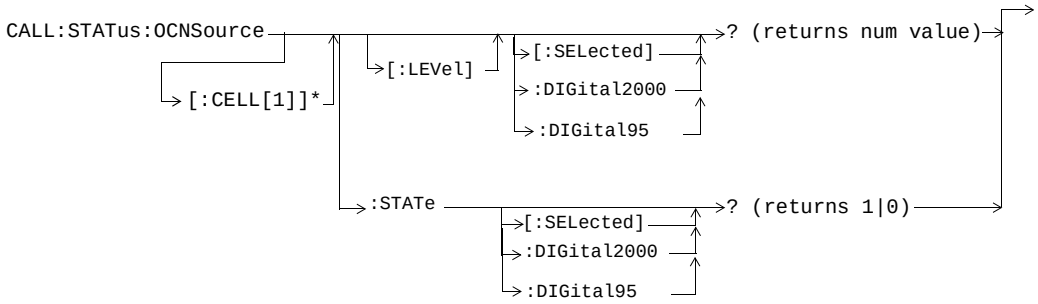
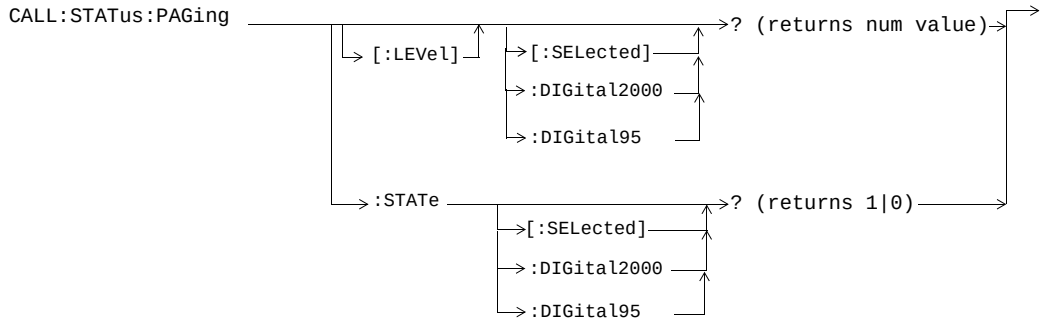
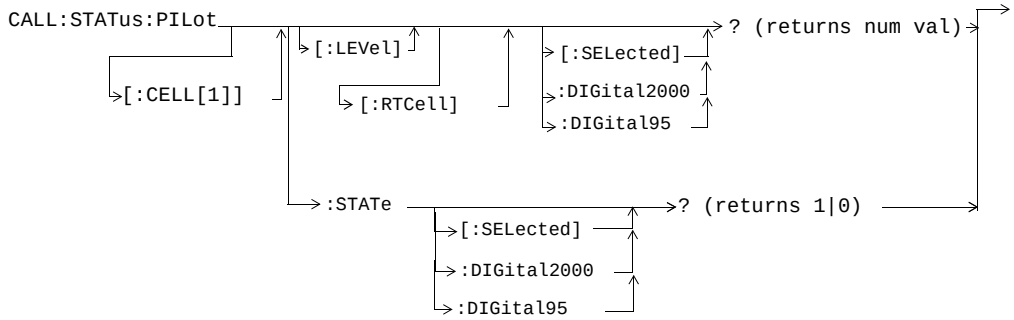
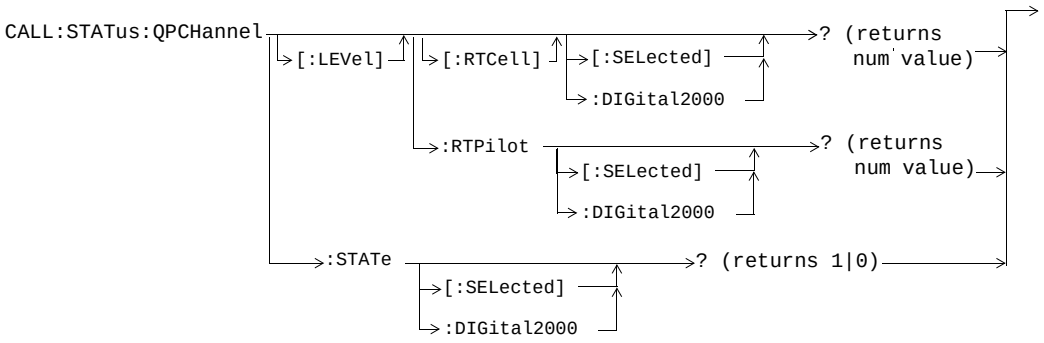

CALL:STATus:OCNSource
[:CELL[1]]*
[:LEVel]
[:SELected]
:DIGital2000
:DIGital95
? (returns num value)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)

Diagram Conventions







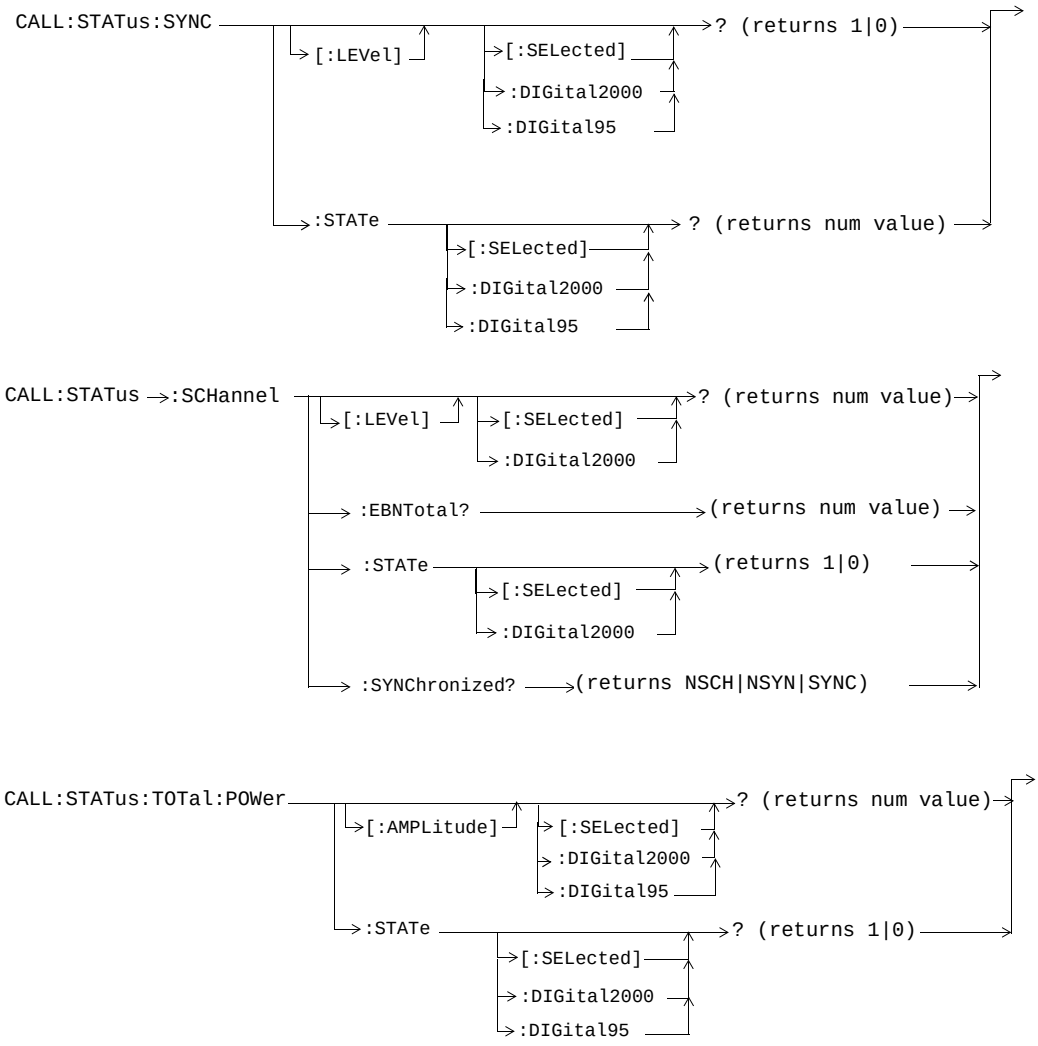
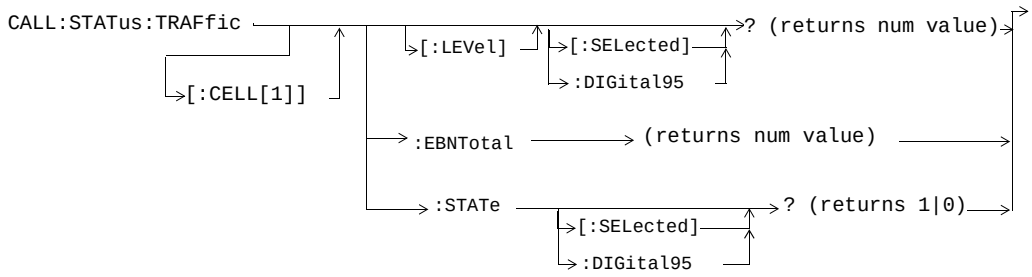
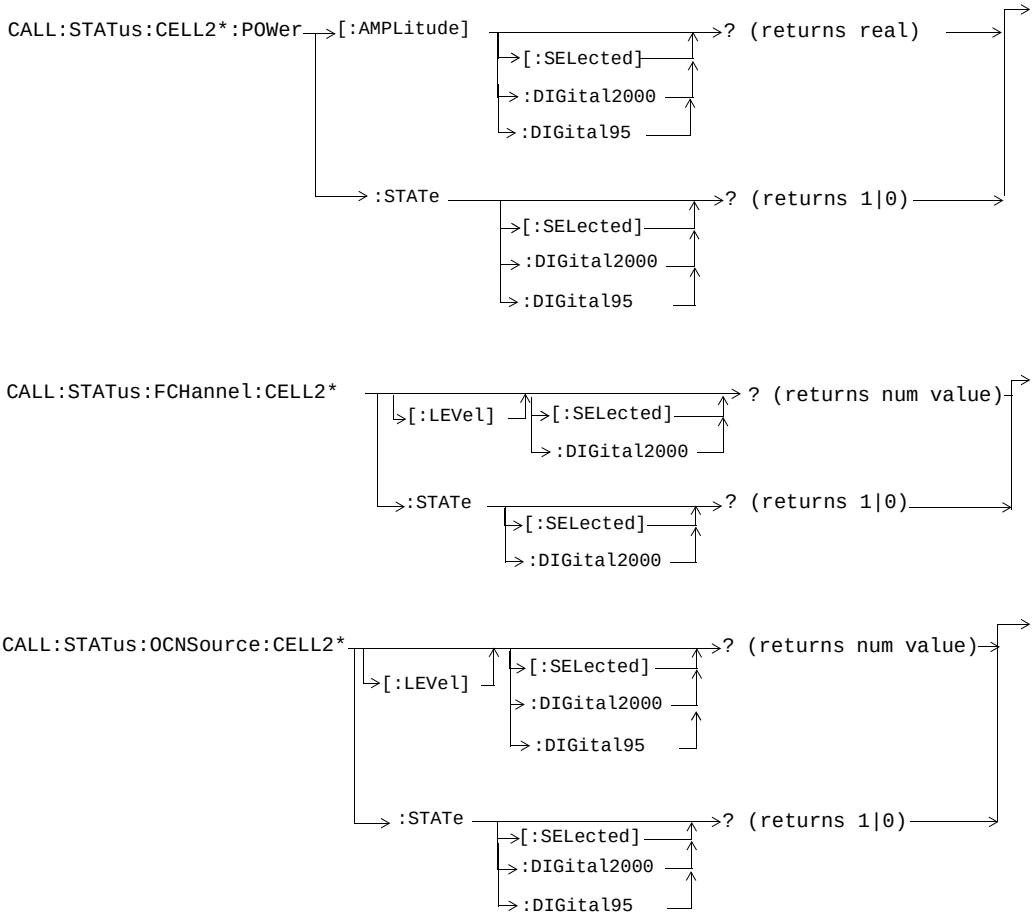
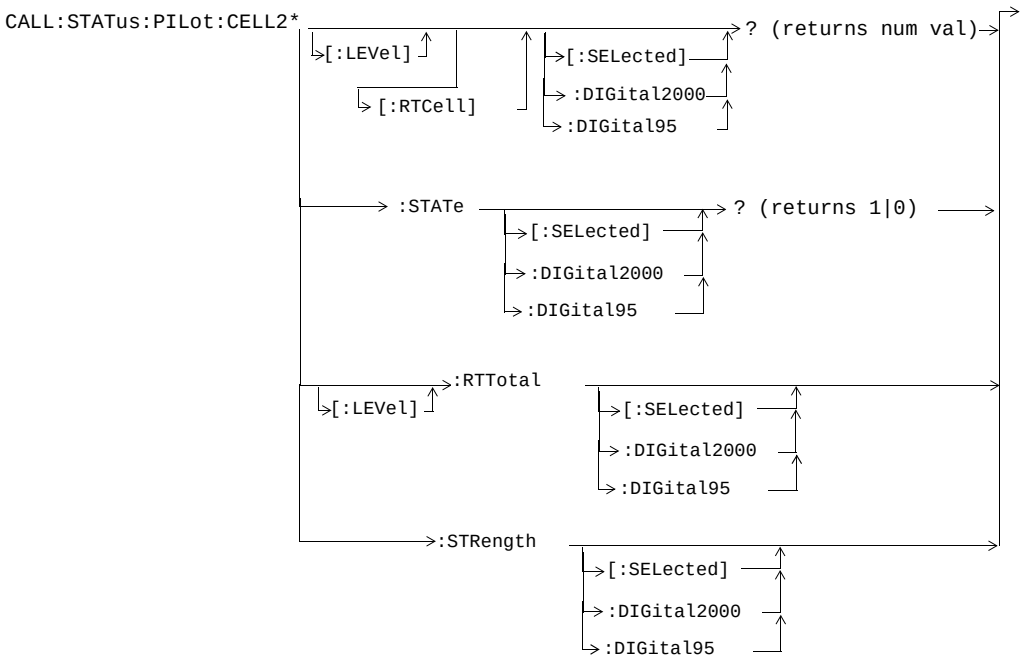

CALL:STATus:SYNC
[:LEVel]
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns num value)
CALL:STATus
:SCHannel
[:LEVel]
[:SELected]
:DIGital2000
? (returns num value)
:EBNTotal?
(returns num value)
:STATe
[:SELected]
:DIGital2000
(returns 1|0)
:SYNChronized?
(returns NSCH|NSYN|SYNC)
CALL:STATus:TOTal:POWer
[:AMPLitude]
[:SELected]
:DIGital2000
:DIGital95
? (returns num value)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)

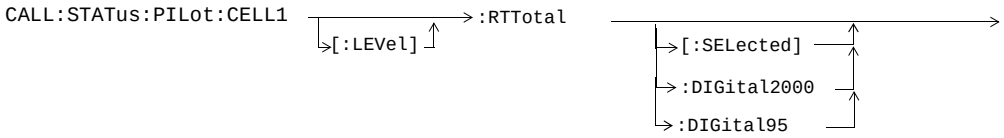
Diagram Conventions

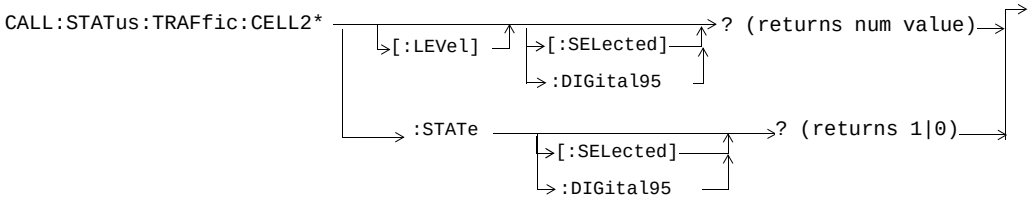


CALL:STATus

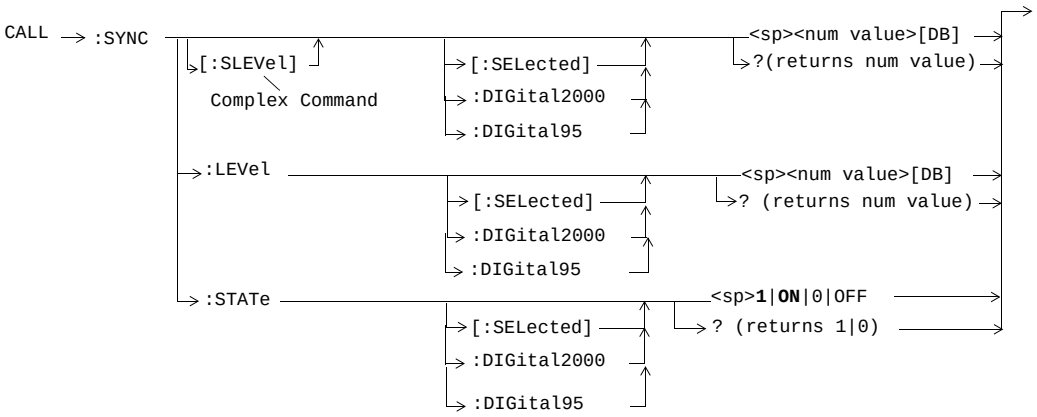

CALL:STATus:CELL2*:POWer
[:AMPLitude]
[:SELected]
:DIGital2000
:DIGital95
? (returns real)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)
CALL:STATus:FCHannel:CELL2*
[:LEVel]
[:SELected]
:DIGital2000
? (returns num value)
:STATe
[:SELected]
:DIGital2000
? (returns 1|0)
CALL:STATus:OCNSource:CELL2*
[:LEVel]
[:SELected]
:DIGital2000
:DIGital95
? (returns num value)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)


CALL:STATus:PILot:CELL2*
[:LEVel]
[:RTCell]
[:SELected]
:DIGital2000
:DIGital95
? (returns num val)
:STATe
[:SELected]
:DIGital2000
:DIGital95
? (returns 1|0)
:RTTotal
[:LEVel]
[:SELected]
:DIGital2000
:DIGital95
:STRength
[:SELected]
:DIGital2000
:DIGital95

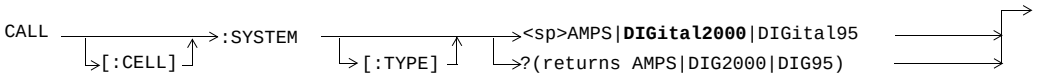

CALL:STATus:PILot:CELL1
[:LEVel]
:RTTotal
[:SELected]
:DIGital2000
:DIGital95


CALL:STATus:TRAFfic:CELL2*
[:LEVel]
[:SELected]
:DIGital95
? (returns num value)
:STATe
[:SELected]
:DIGital95
? (returns 1|0)

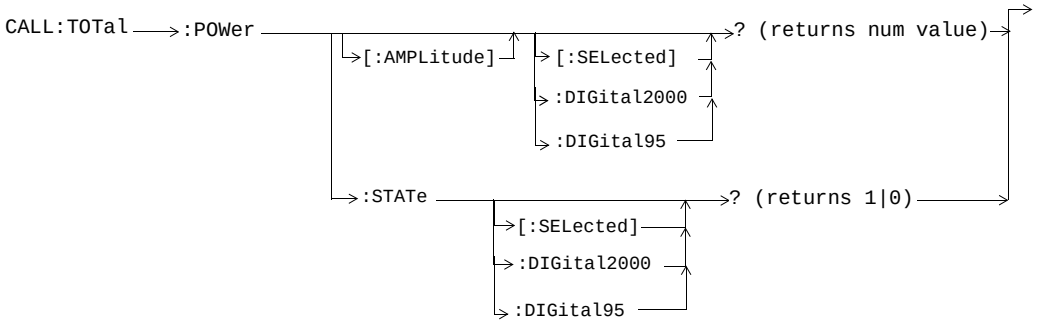
CALL:SYNC



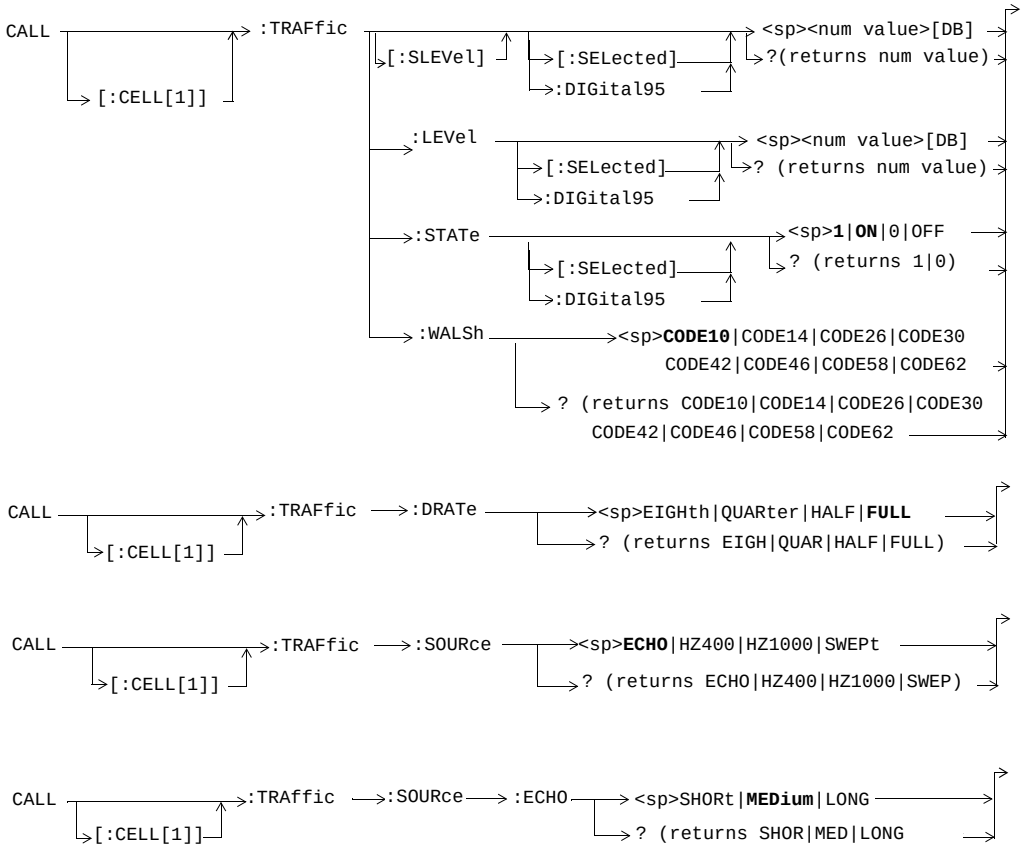
CALL:SYSTem



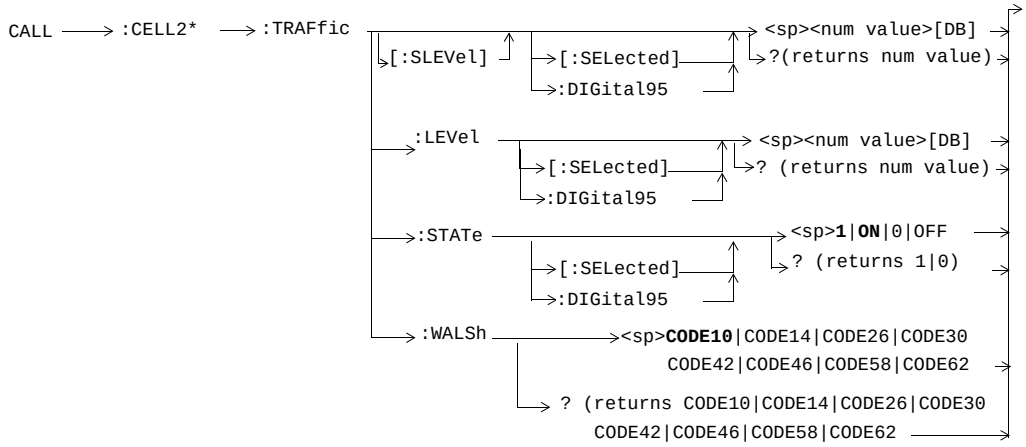
CALL:TOTal:POWer



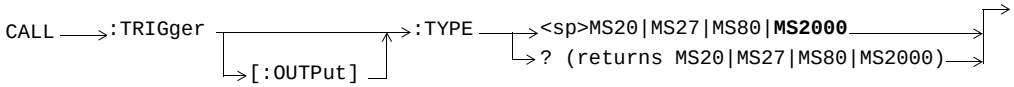
CALL:TRAFfic



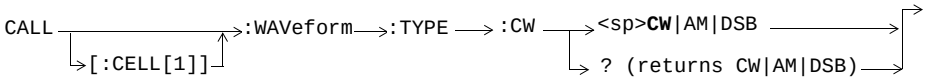
CALL:CELL2:TRAFfic



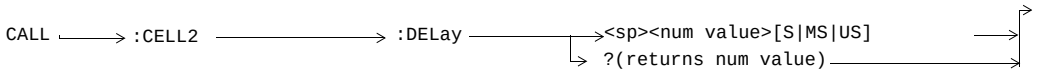
CALL:TRIGger



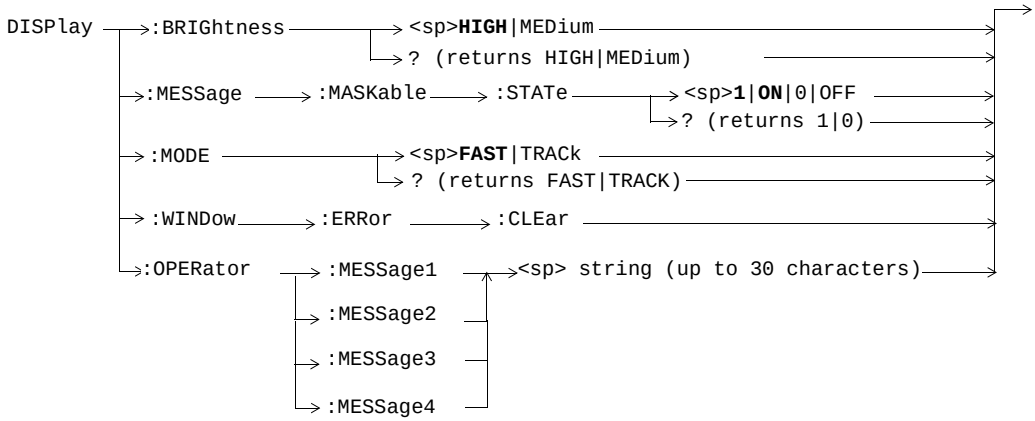
CALL:WAVeform



CALL:CELL2:DELay



DISPlay


DISPlay
:BRIGhtness
<sp>HIGH|MEDium
? (returns HIGH|MEDium)
:MESSage
:MASKable
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:MODE
<sp>FAST|TRACk
? (returns FAST|TRACK)
:WINDow
:ERRor
:CLEar
:OPERator
:MESSage1
:MESSage2
:MESSage3
:MESSage4
<sp> string (up to 30 characters)

FETCh:AFANalyzer

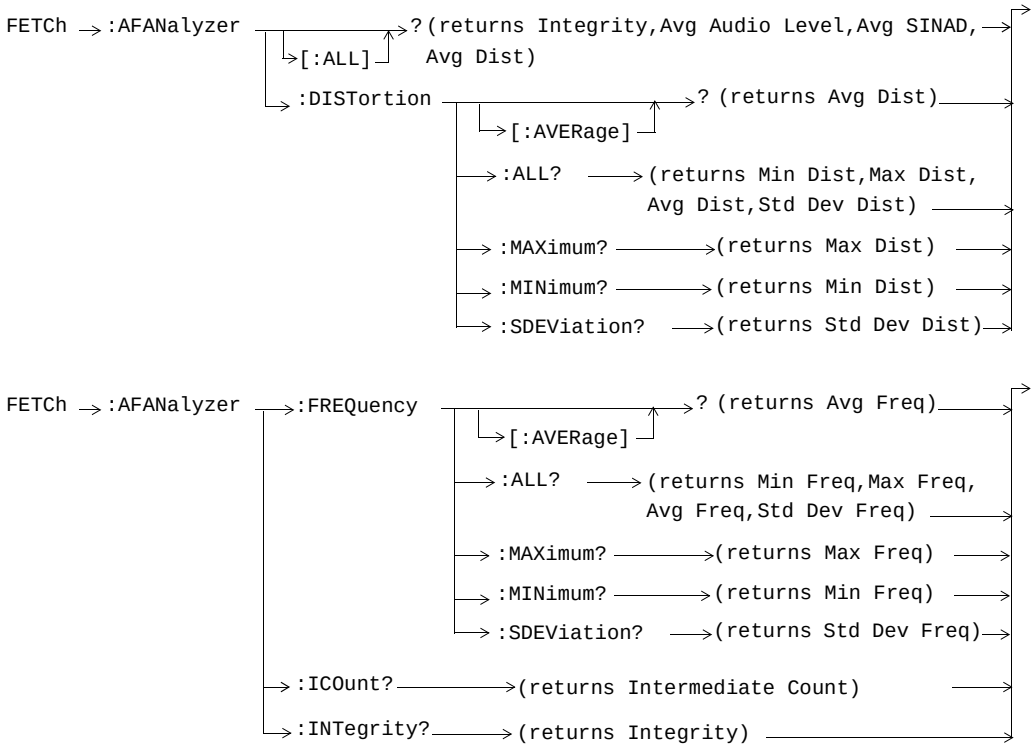
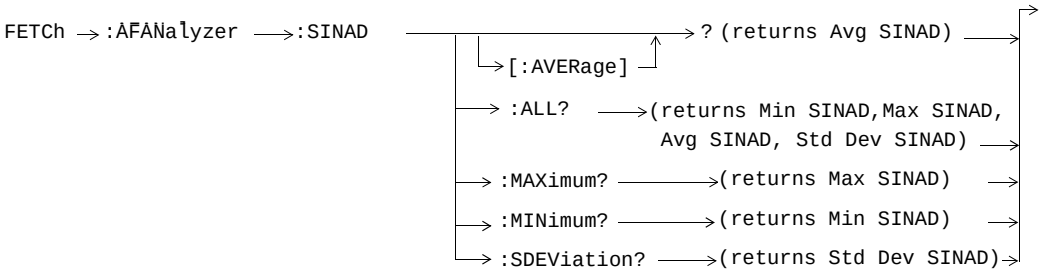
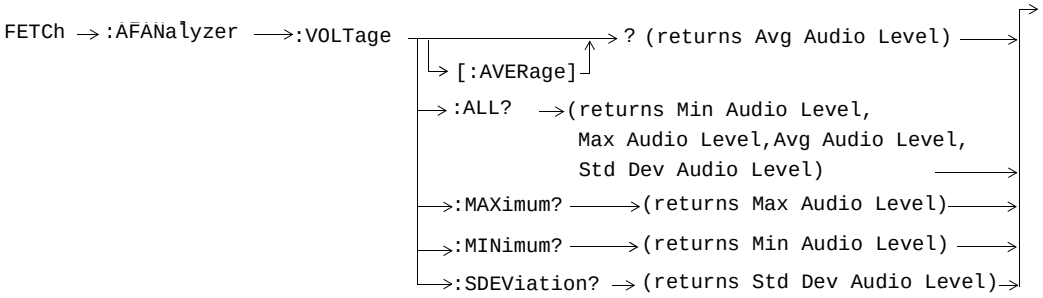
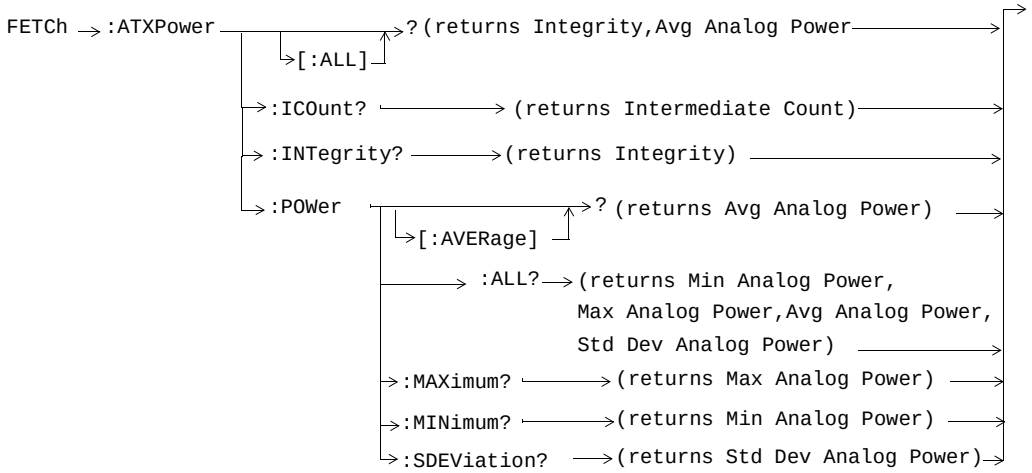


Diagram Conventions

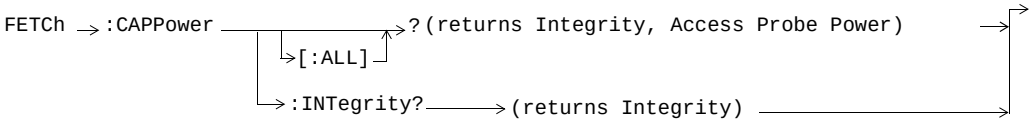




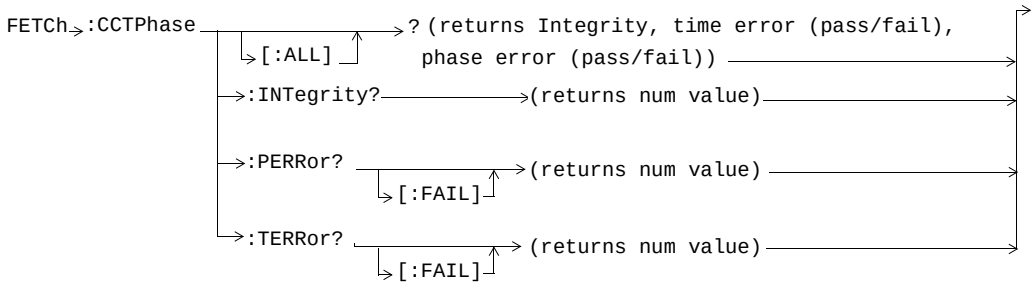
FETCh:ATXPower

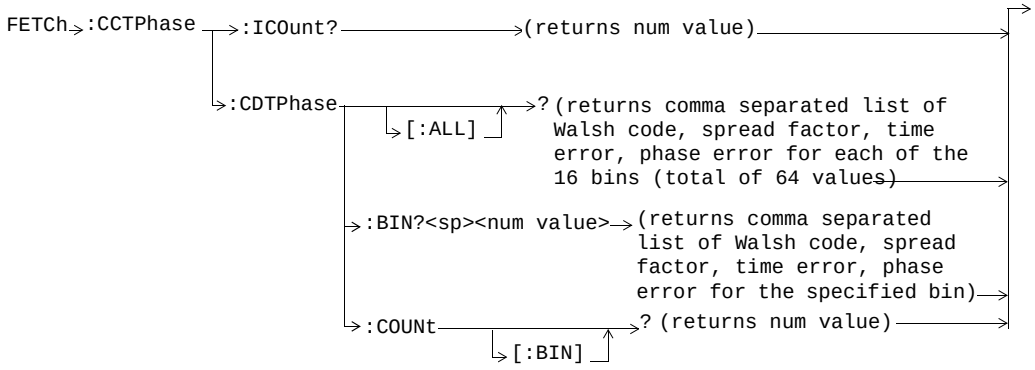


FETCh:CAPPower

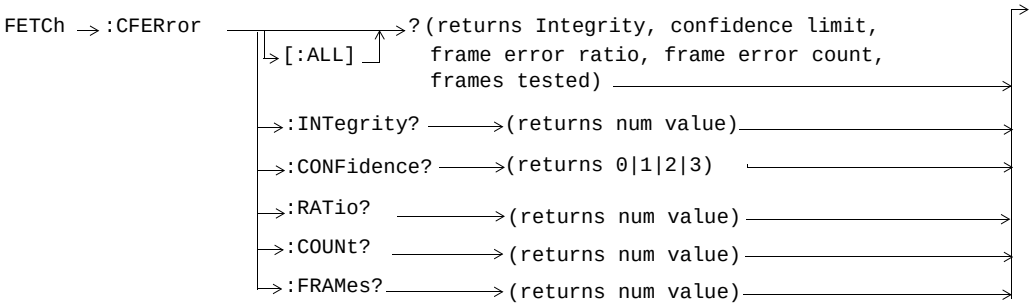


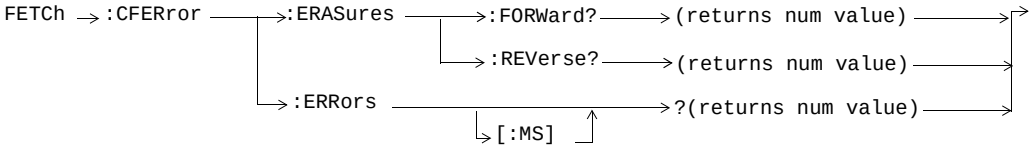
FETCh:CCTPhase



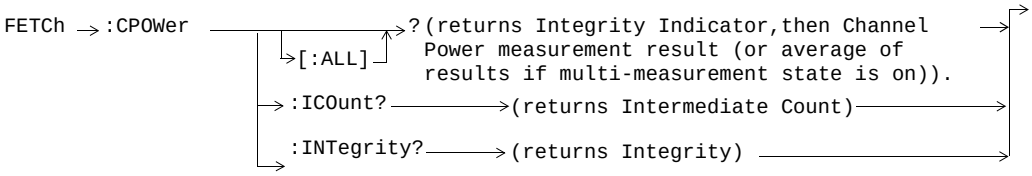


FETCh:CFERror

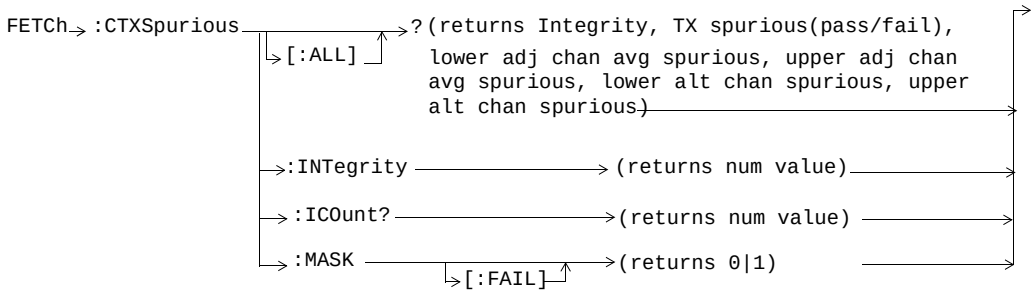




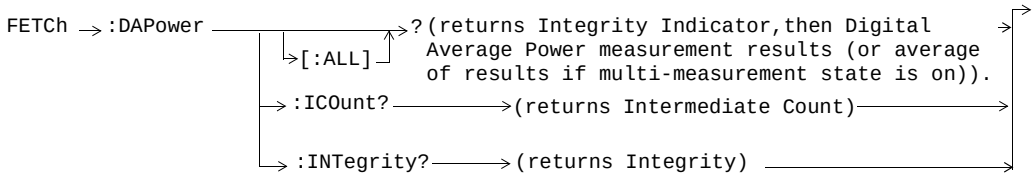
FETCh:CPOWer



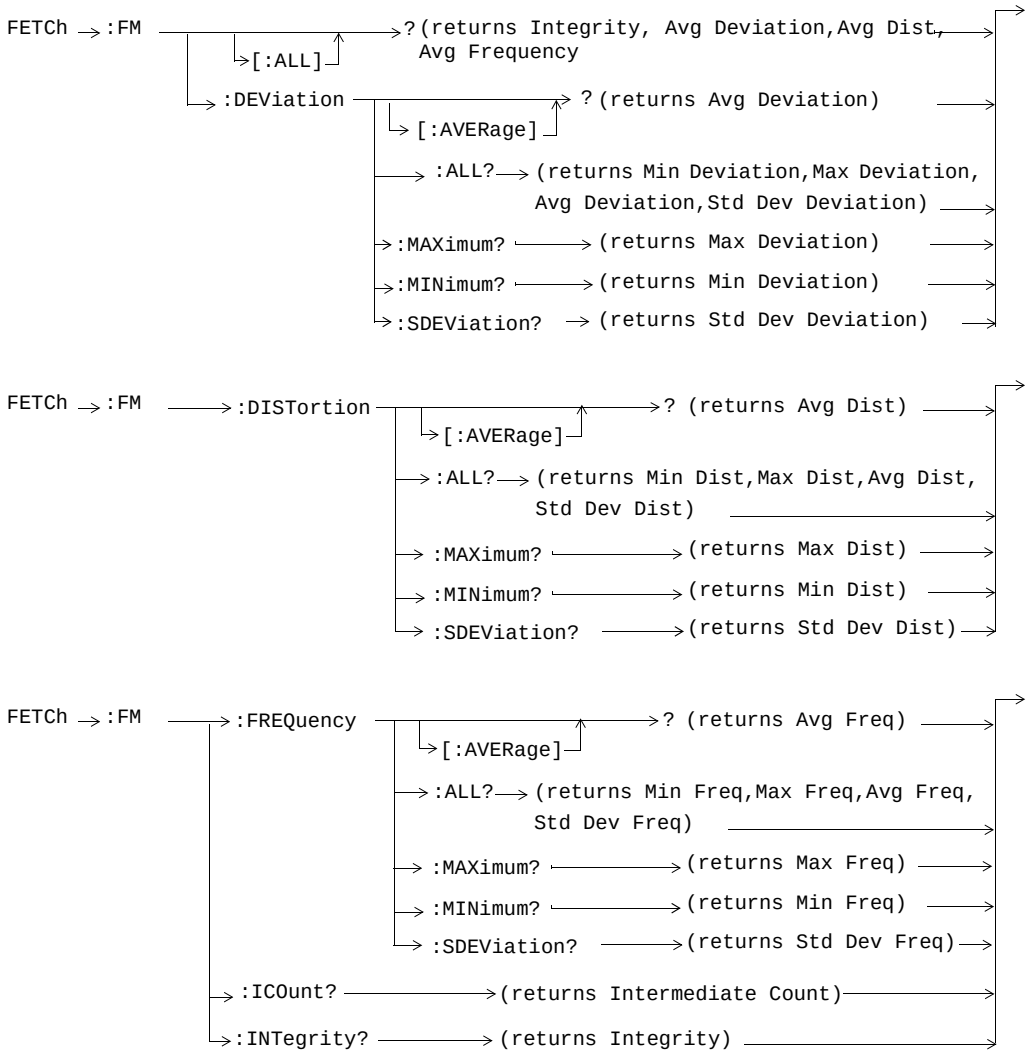
FETCh:CTXSpurious



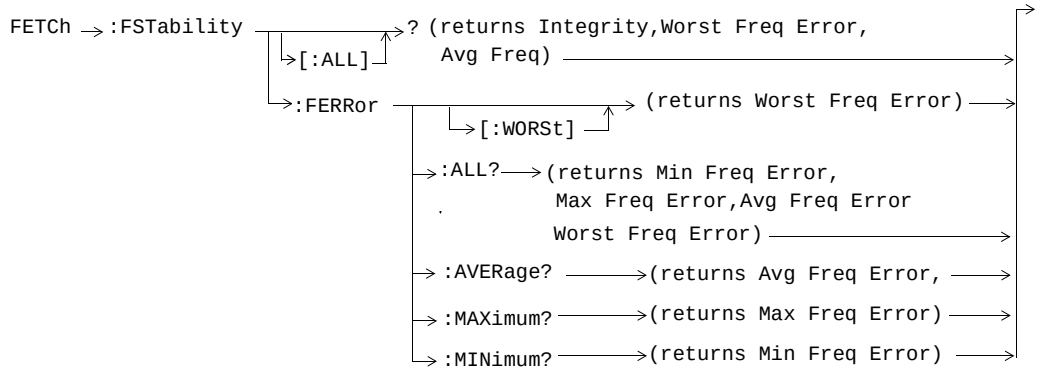
FETCh:DAPower

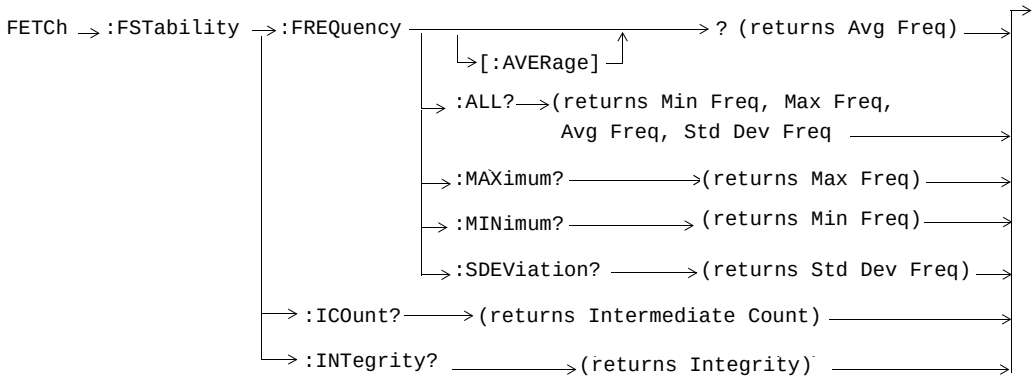


FETCh:FM

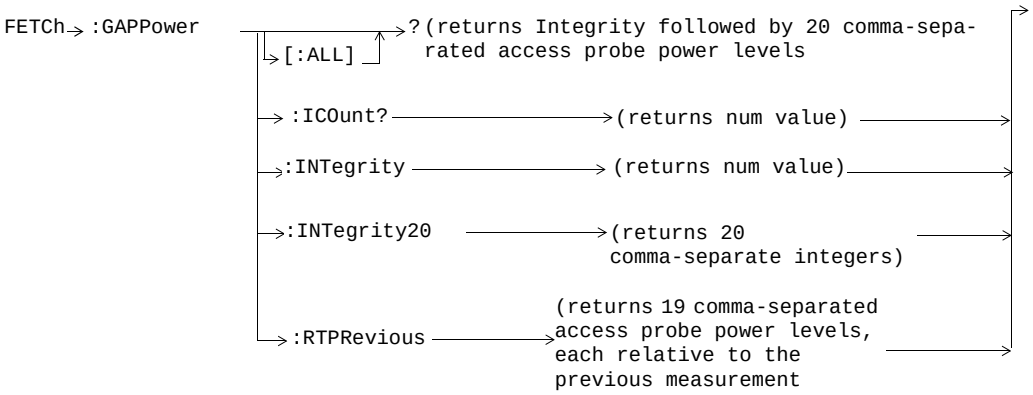

FETCh
:FM
[:ALL]
?(returns Integrity, Avg Deviation,Avg Dist,
Avg Frequency
:DEViation
?(returns Avg Deviation)
[:AVERage]
:ALL?
(returns Min Deviation,Max Deviation,
Avg Deviation,Std Dev Deviation)
:MAXimum?
(returns Max Deviation)
:MINimum?
(returns Min Deviation)
:SDEViation?
(returns Std Dev Deviation)
FETCh
:FM
:DISTortion
? (returns Avg Dist)
[:AVERage]
:ALL?
(returns Min Dist,Max Dist,Avg Dist,
Std Dev Dist)
:MAXimum?
(returns Max Dist)
:MINimum?
(returns Min Dist)
:SDEViation?
(returns Std Dev Dist)
FETCh
:FM
:FREQuency
? (returns Avg Freq)
[:AVERage]
:ALL?
(returns Min Freq,Max Freq,Avg Freq,
Std Dev Freq)
:MAXimum?
(returns Max Freq)
:MINimum?
(returns Min Freq)
:SDEViation?
(returns Std Dev Freq)
:ICOunt?
(returns Intermediate Count)
:INTegrity?
(returns Integrity)

FETCh:FSTability

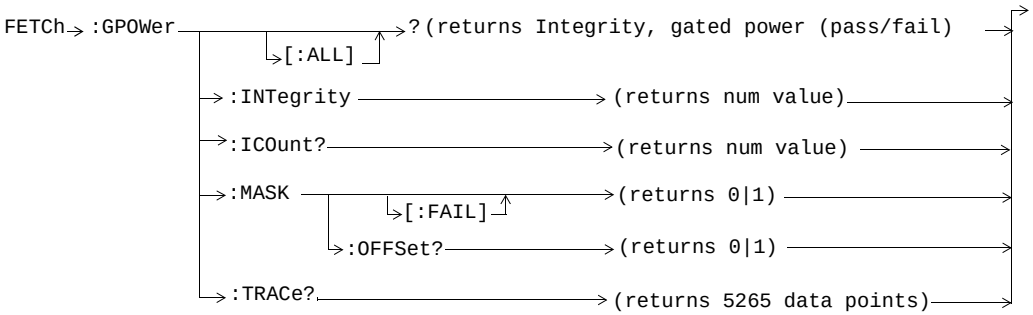




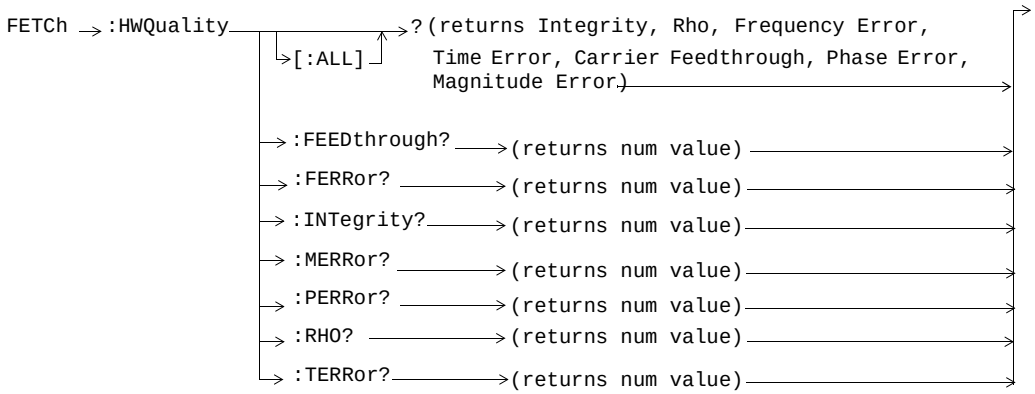
FETCh:GAPPower?



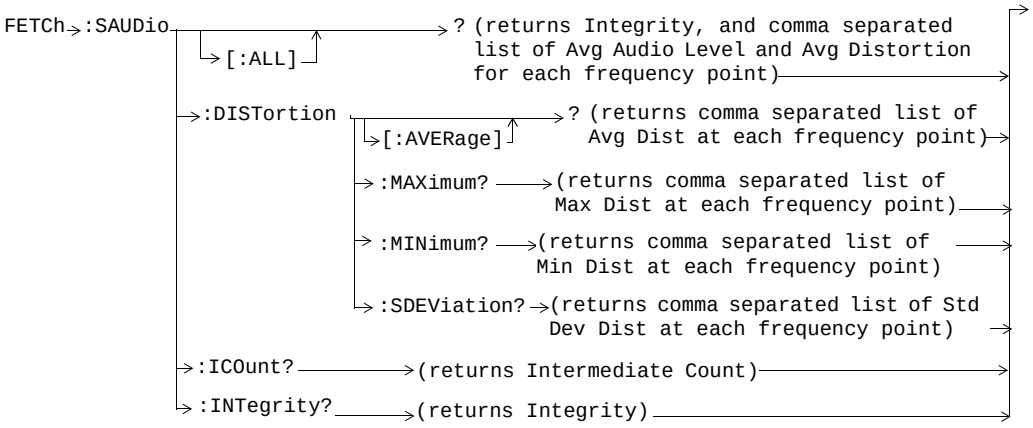
FETCh:GPOWer

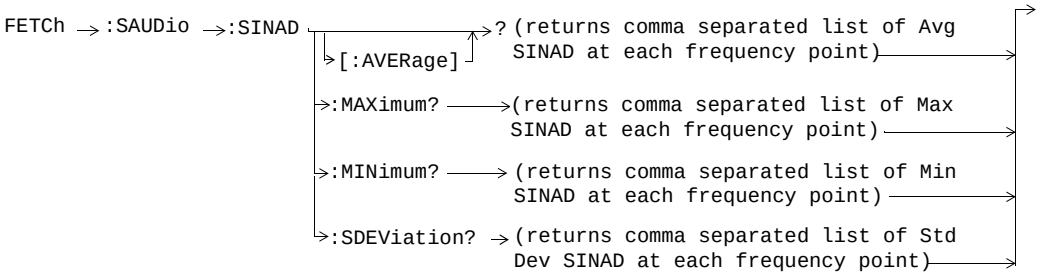


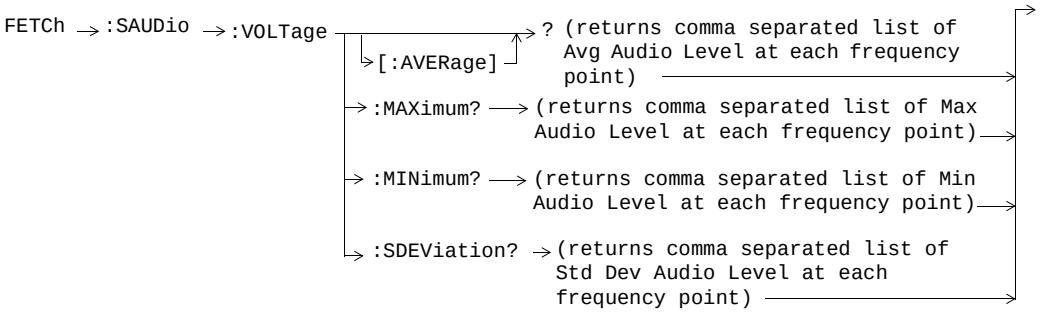
FETCh:HWQuality



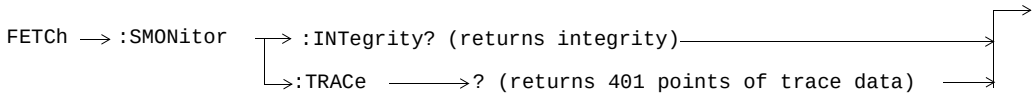
FETCh:SAUDio



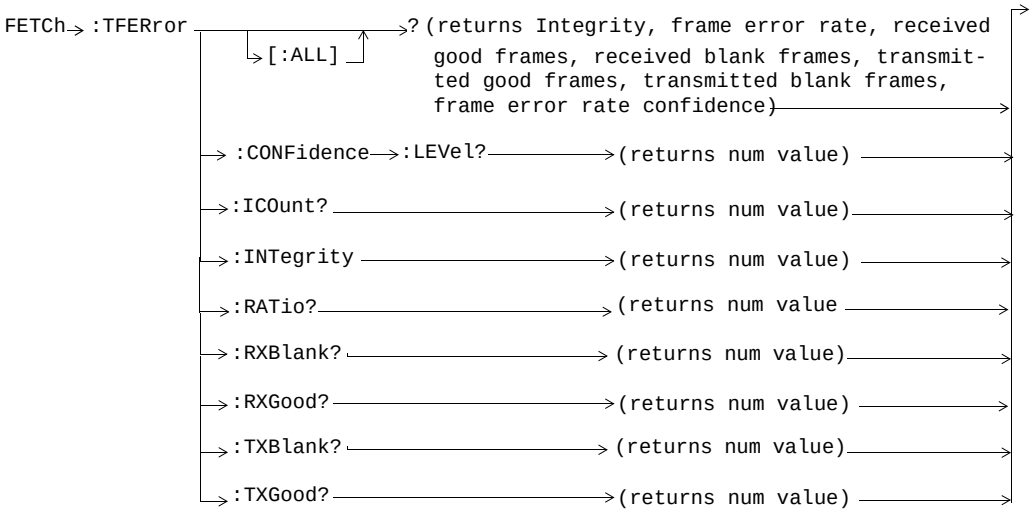




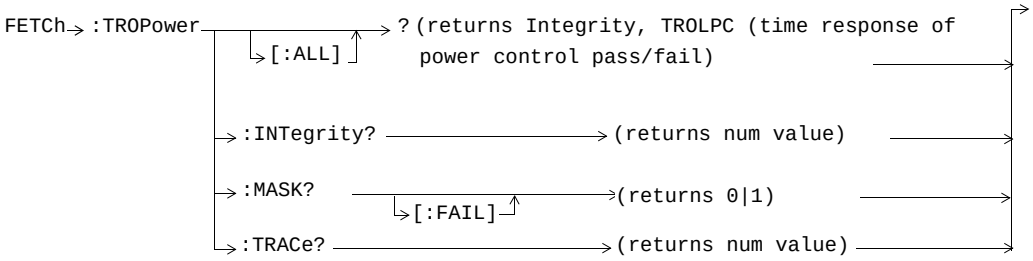
FETCh:SMONitor



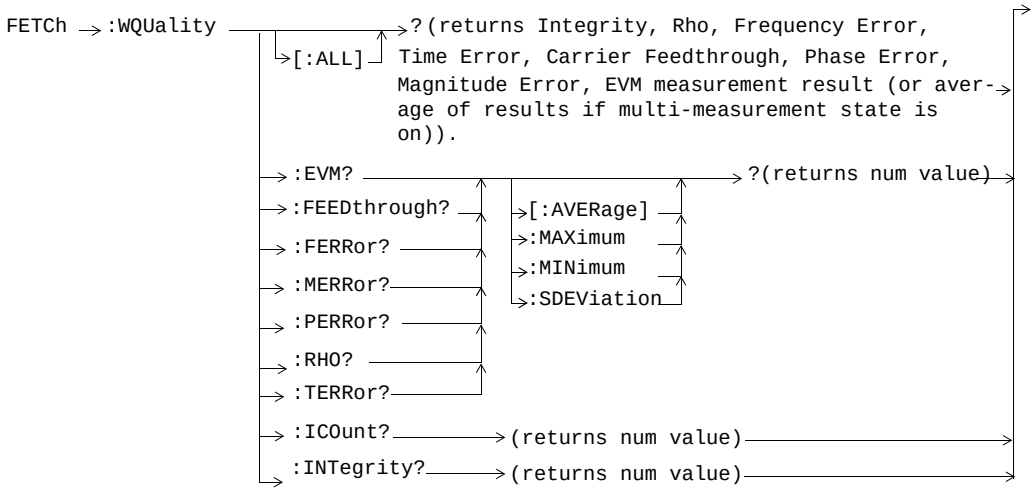
FETCh:TFERror

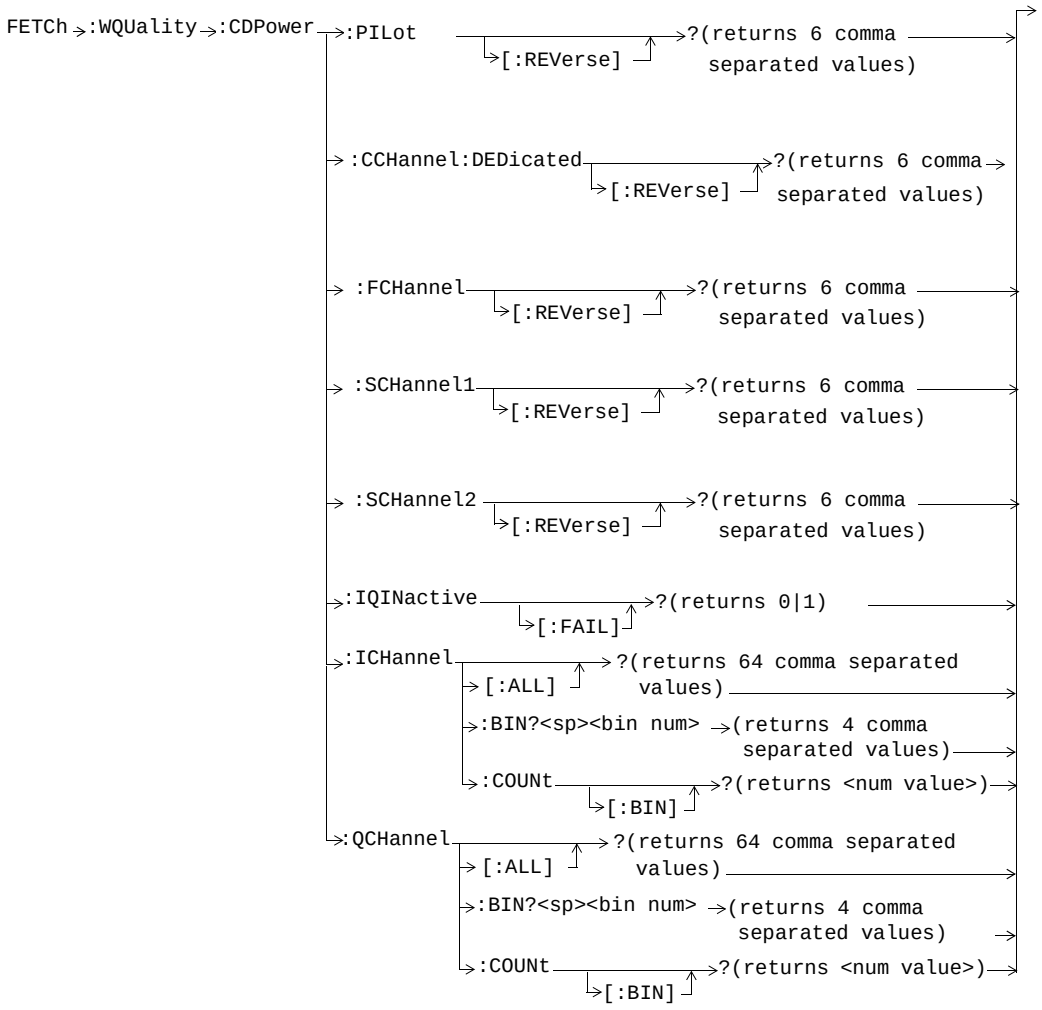


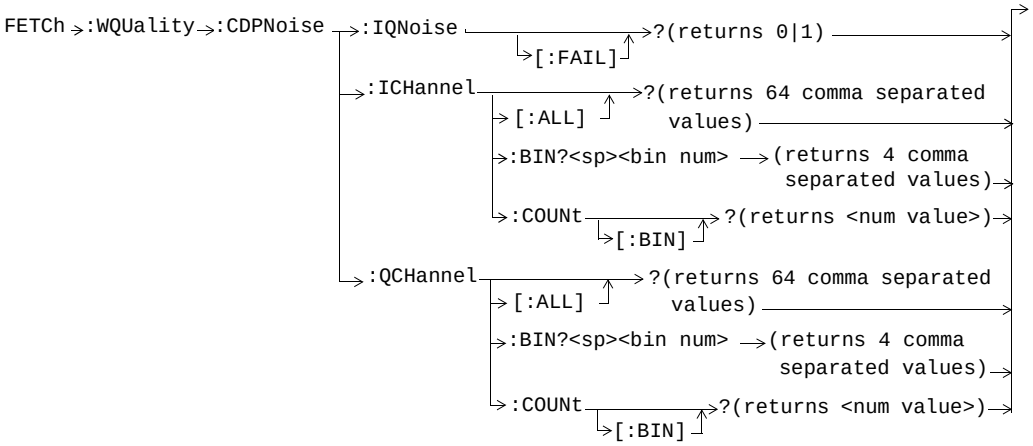
FETCh:TROPower



FETCh:WQUality




FETCh
:WQUality
:CDPower
:PILot
[:REVerse]
?(returns 6 comma separated values)
:CCHannel:DEDicated
[:REVerse]
?(returns 6 comma separated values)
:FCHannel
[:REVerse]
?(returns 6 comma separated values)
:SCHannel1
[:REVerse]
?(returns 6 comma separated values)
:SCHannel2
[:REVerse]
?(returns 6 comma separated values)
:IQINactive
[:FAIL]
?(returns 0|1)
:ICHannel
[:ALL]
?(returns 64 comma separated values)
:BIN?<sp><bin num>
(returns 4 comma separated values)
:COUNt
[:BIN]
?(returns <num value>)
:QCHannel
[:ALL]
?(returns 64 comma separated values)
:BIN?<sp><bin num>
(returns 4 comma separated values)
:COUNt
[:BIN]
?(returns <num value>)


FETCh
:WQUality
:CDPNoise
:IQNoise
[:FAIL]
?(returns 0|1)
:ICHannel
[:ALL]
?(returns 64 comma separated values)
:BIN?<sp><bin num>
(returns 4 comma separated values)
:COUNt
[:BIN]
?(returns <num value>)
:QCHannel
[:ALL]
?(returns 64 comma separated values)
:BIN?<sp><bin num>
(returns 4 comma separated values)
:COUNt
[:BIN]
?(returns <num value>)

INITiate

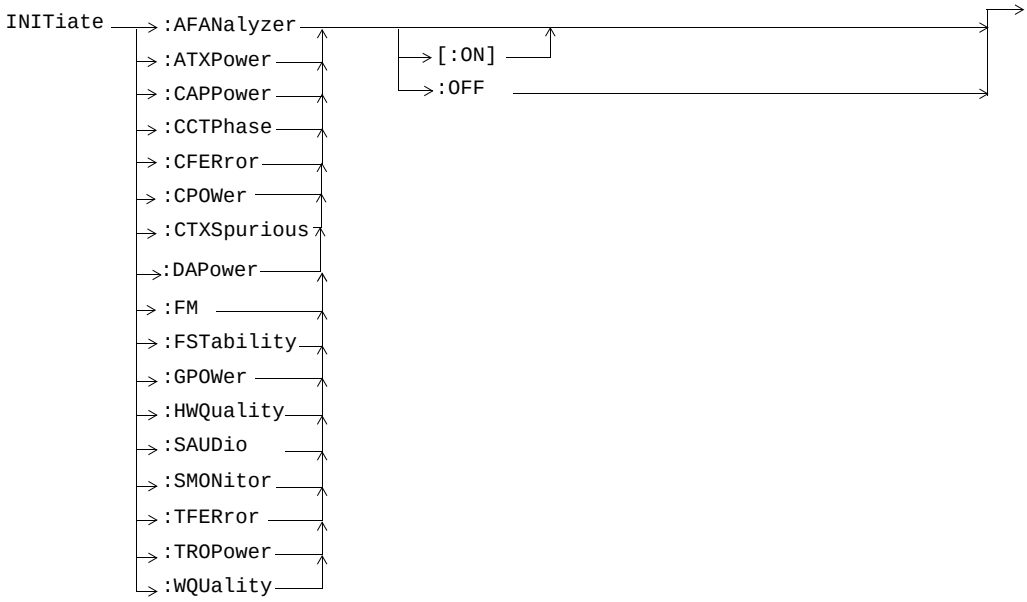
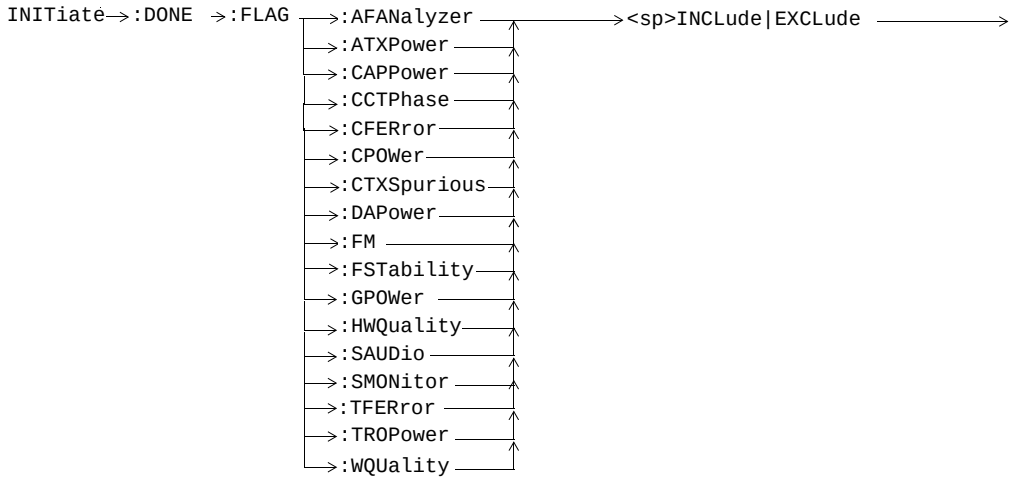
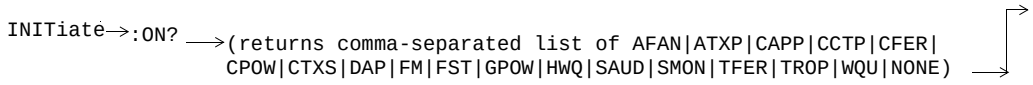
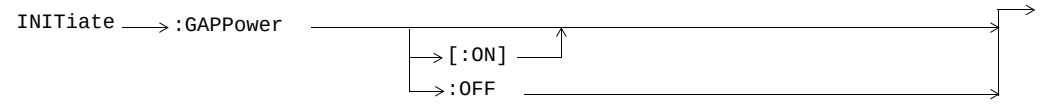

INITiate
:AFANalyzer
[:ON]
:OFF
:ATXPower
:CAPPower
:CCTPhase
:CFERror
:CPOWer
:CTXSpurious
:DAPower
:FM
:FSTability
:GPOWer
:HWQuality
:SAUDio
:SMONitor
:TFERror
:TROPower
:WQUality

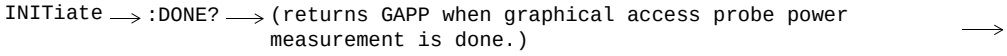
Diagram Conventions



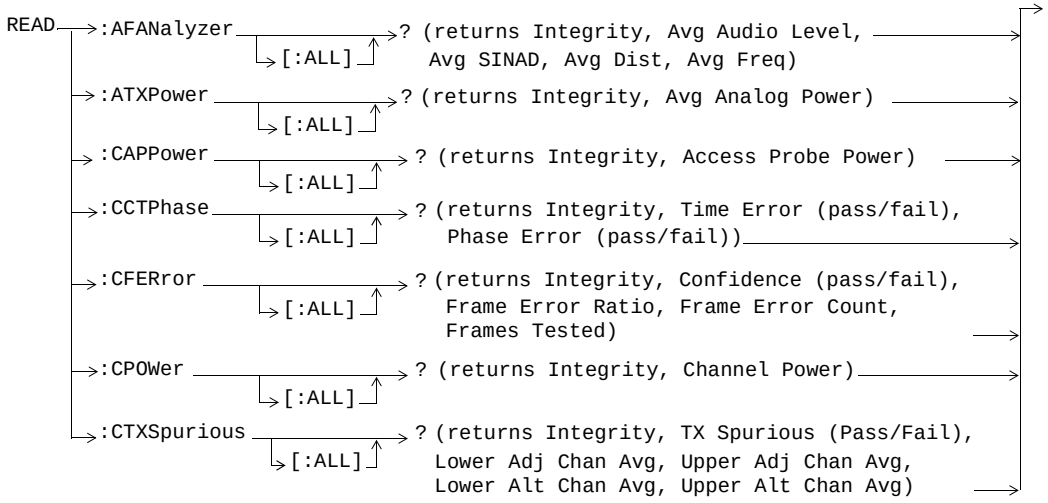


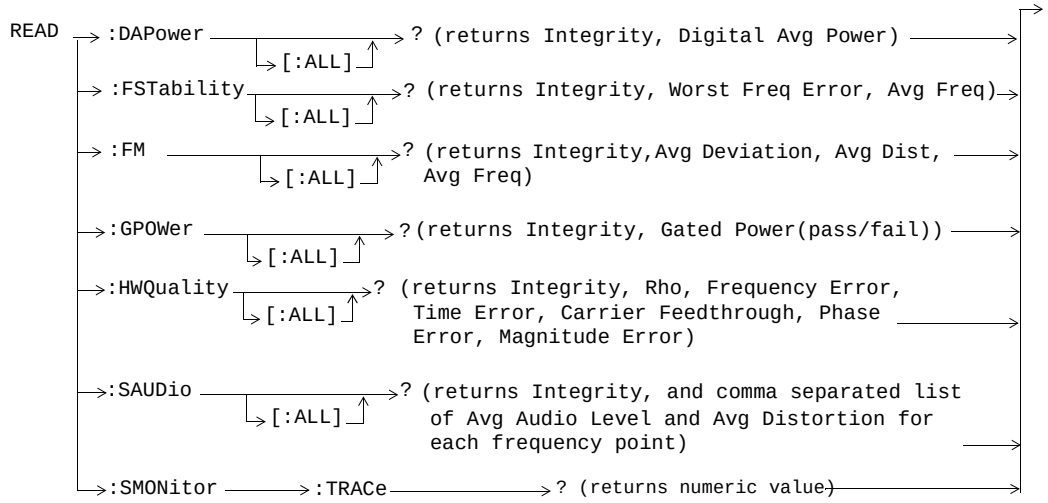
INITiate

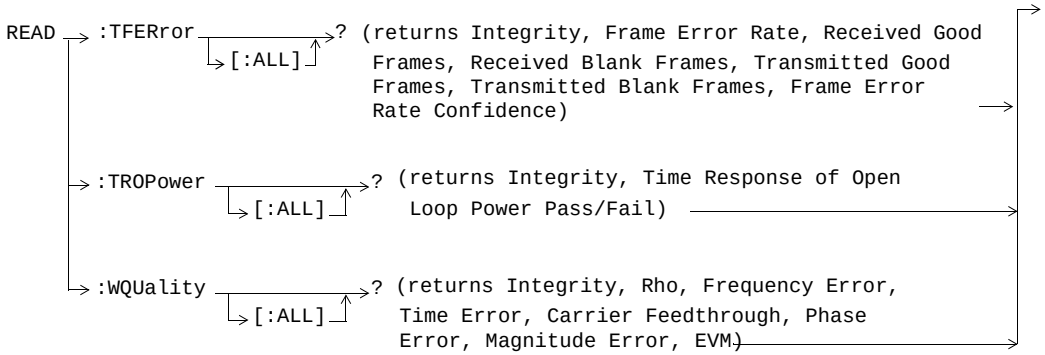

INITiate
:GAPPower
[:ON]
:OFF


INITiate
:DONE?
(returns GAPP when graphical access probe power measurement is done.)

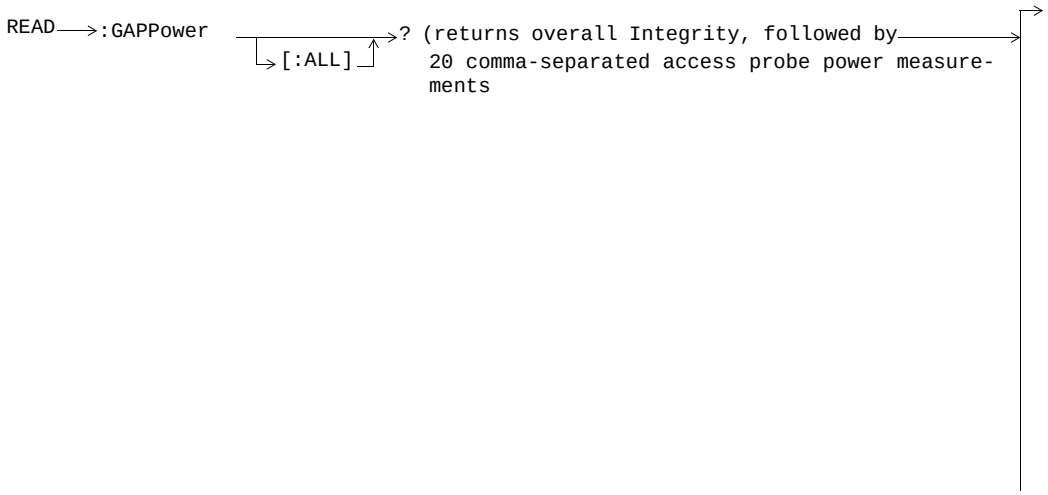
READ


READ
:AFANalyzer
[:ALL]
? (returns Integrity, Avg Audio Level, Avg SINAD, Avg Dist, Avg Freq)
:ATXPower
[:ALL]
? (returns Integrity, Avg Analog Power)
:CAPPower
[:ALL]
? (returns Integrity, Access Probe Power)
:CCTPhase
[:ALL]
? (returns Integrity, Time Error (pass/fail), Phase Error (pass/fail))
:CFERror
[:ALL]
? (returns Integrity, Confidence (pass/fail), Frame Error Ratio, Frame Error Count, Frames Tested)
:CPOWer
[:ALL]
? (returns Integrity, Channel Power)
:CTXSpurious
[:ALL]
? (returns Integrity, TX Spurious (Pass/Fail), Lower Adj Chan Avg, Upper Adj Chan Avg, Lower Alt Chan Avg, Upper Alt Chan Avg)

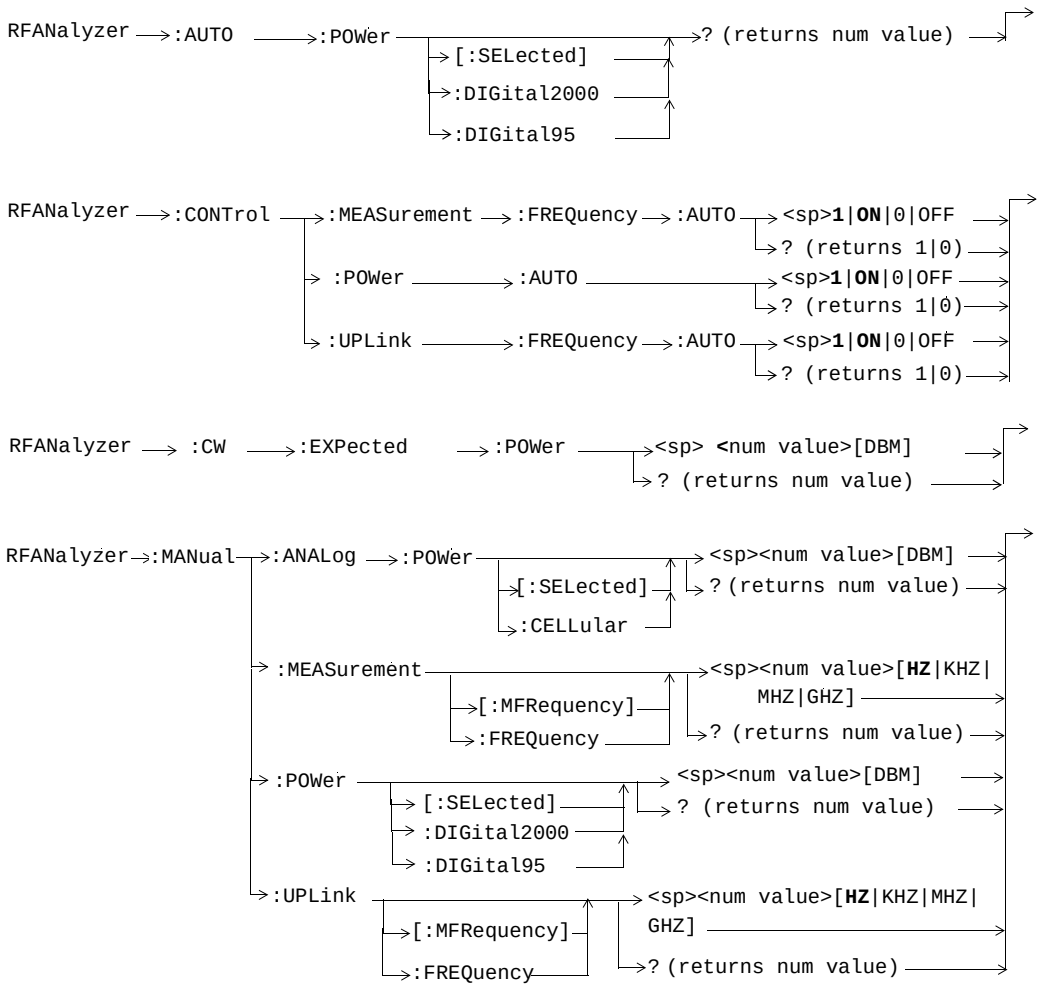

READ
:DAPower
[:ALL]
? (returns Integrity, Digital Avg Power)
:FSTability
[:ALL]
? (returns Integrity, Worst Freq Error, Avg Freq)
:FM
[:ALL]
? (returns Integrity,Avg Deviation, Avg Dist, Avg Freq)
:GPOWer
[:ALL]
?(returns Integrity, Gated Power(pass/fail))
:HWQuality
[:ALL]
? (returns Integrity, Rho, Frequency Error, Time Error, Carrier Feedthrough, Phase Error, Magnitude Error)
:SAUDio
[:ALL]
? (returns Integrity, and comma separated list of Avg Audio Level and Avg Distortion for each frequency point)
:SMONitor
:TRACe
? (returns numeric value)


READ
:TFERror
[:ALL]
? (returns Integrity, Frame Error Rate, Received Good Frames, Received Blank Frames, Transmitted Good Frames, Transmitted Blank Frames, Frame Error Rate Confidence)
:TROPower
[:ALL]
? (returns Integrity, Time Response of Open Loop Power Pass/Fail)
:WQUality
[:ALL]
? (returns Integrity, Rho, Frequency Error, Time Error, Carrier Feedthrough, Phase Error, Magnitude Error, EVM)

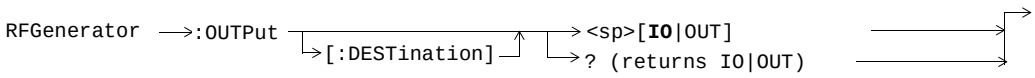
READ


READ
:GAPPower
[:ALL]
? (returns overall Integrity, followed by
20 comma-separated access probe power measure-
ments

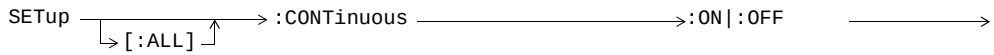
RFANalyzer


RFANalyzer
:AUTO
:POWer
[:SELected]
:DIGital2000
:DIGital95
? (returns num value)
RFANalyzer
:CONTrol
:MEASurement
:FREQuency
:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
:POWer
:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
:UPLink
:FREQuency
:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
RFANalyzer
:CW
:EXPected
:POWer
<sp> <num value>[DBM]
? (returns num value)
RFANalyzer
:MANual
:ANALog
:POWer
[:SELected]
:CELLular
<sp><num value>[DBM]
? (returns num value)
:MEASurement
[:MFRequency]
:FREQuency
<sp><num value>[HZ|KHZ|MHZ|GHZ]
? (returns num value)
:POWer
[:SELected]
:DIGital2000
:DIGital95
<sp><num value>[DBM]
? (returns num value)
:UPLink
[:MFRequency]
:FREQuency
<sp><num value>[HZ|KHZ|MHZ|GHZ]
? (returns num value)

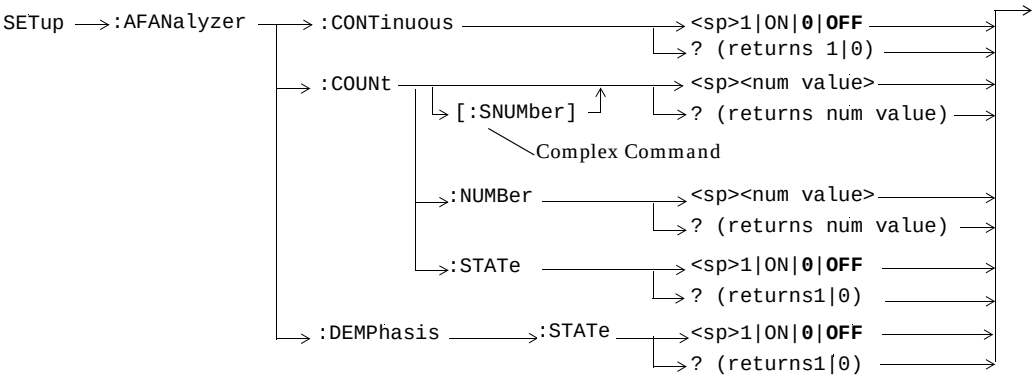
RFGenerator:OUTPut

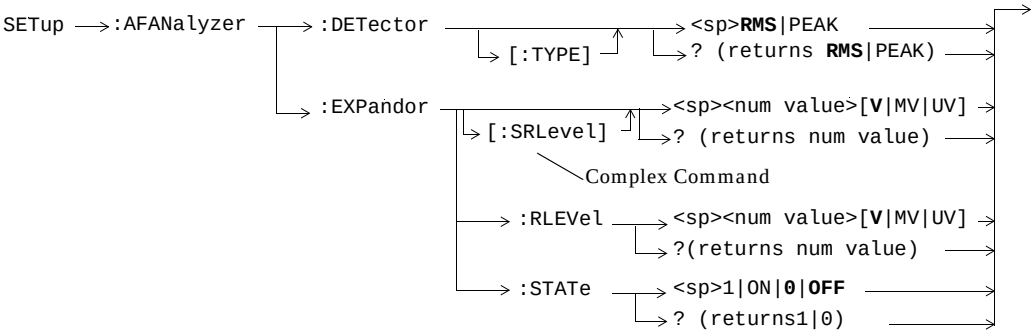


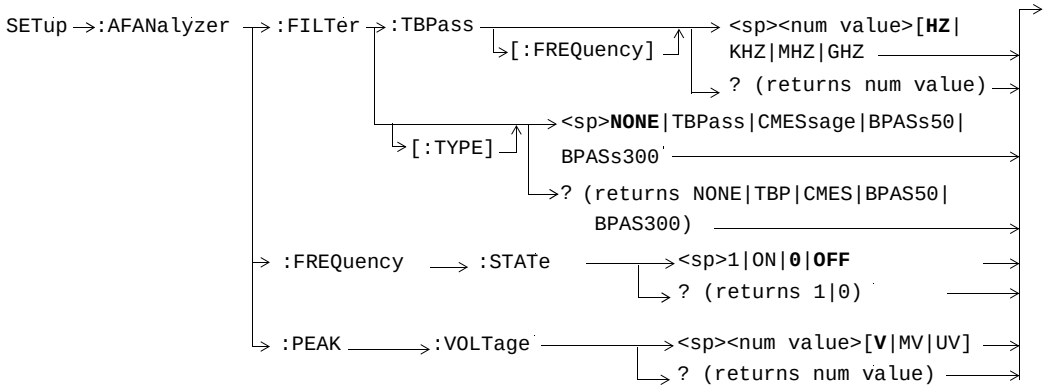
SETup:CONTinuous

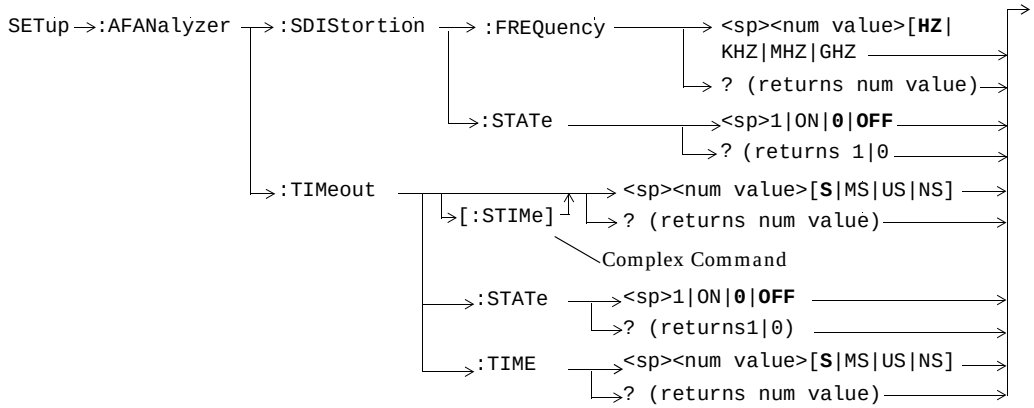


SETup:AFANalyzer

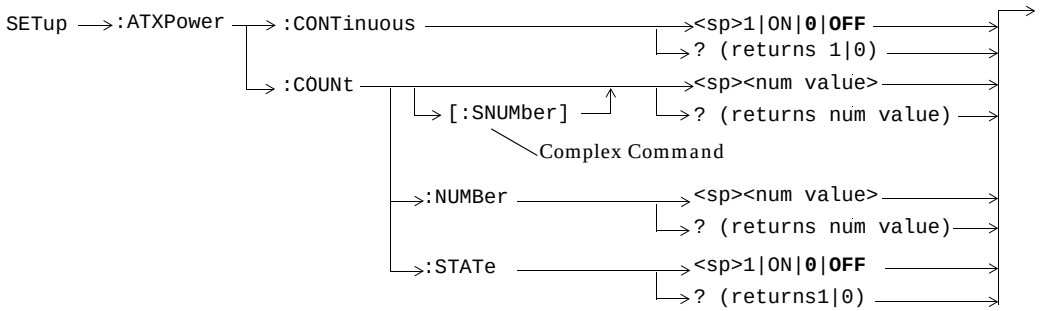


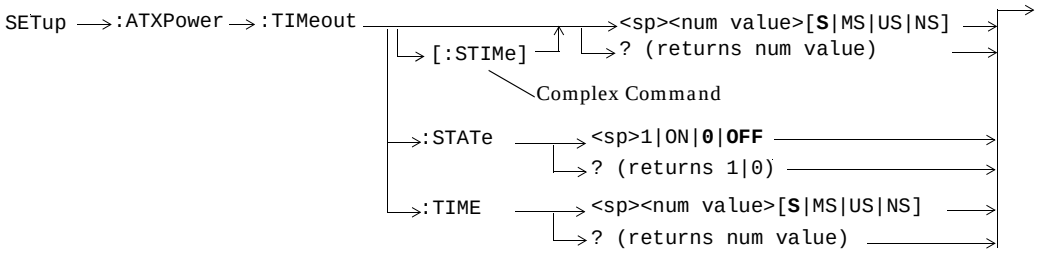



SETup
:AFANalyzer
:FILTer
:TBPass
[:FREQuency]
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
[:TYPE]
<sp>NONE|TBPass|CMESsage|BPASs50|
BPASs300
? (returns NONE|TBP|CMES|BPAS50|
BPAS300)
:FREQuency
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:PEAK
:VOLTage
<sp><num value>[V|MV|UV]
? (returns num value)

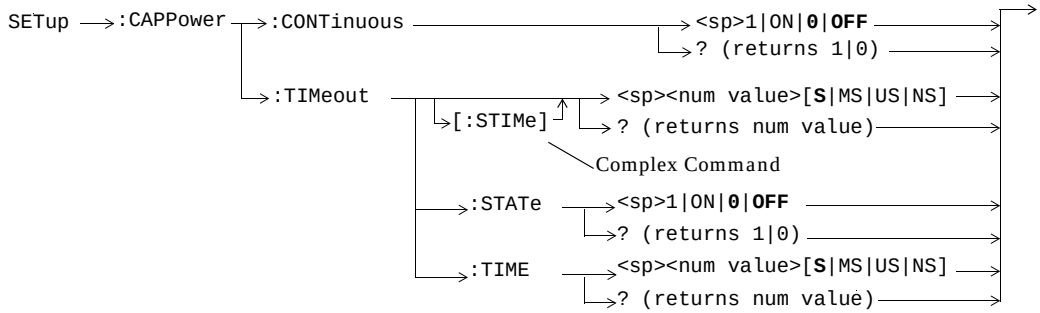

SETup
:AFANalyzer
:SDIStortion
:FREQuency
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0
:TIMeout
<sp><num value>[S|MS|US|NS]
[:STIMe]
? (returns num value)
Complex Command
:STATe
<sp>1|ON|0|OFF
? (returns1|0)
:TIME
<sp><num value>[S|MS|US|NS]
? (returns num value)

SETup:ATXPower

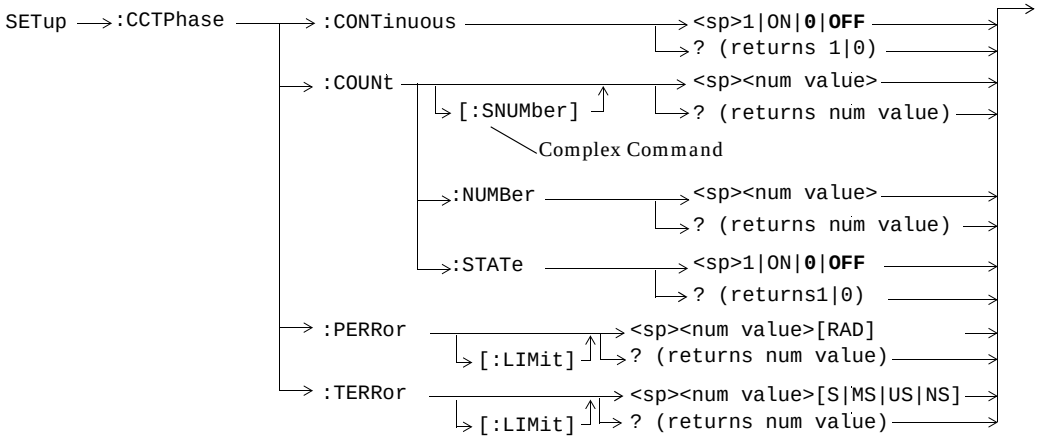


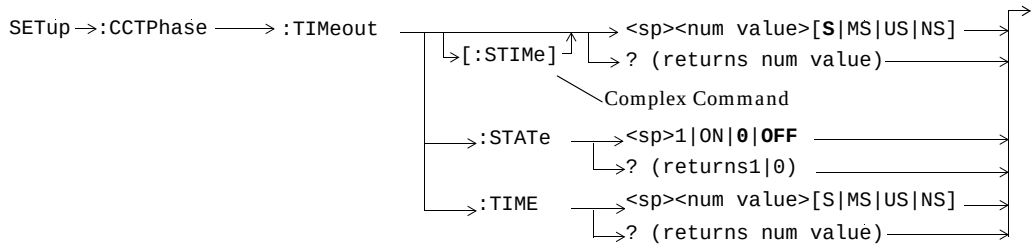


SETup:CAPPower

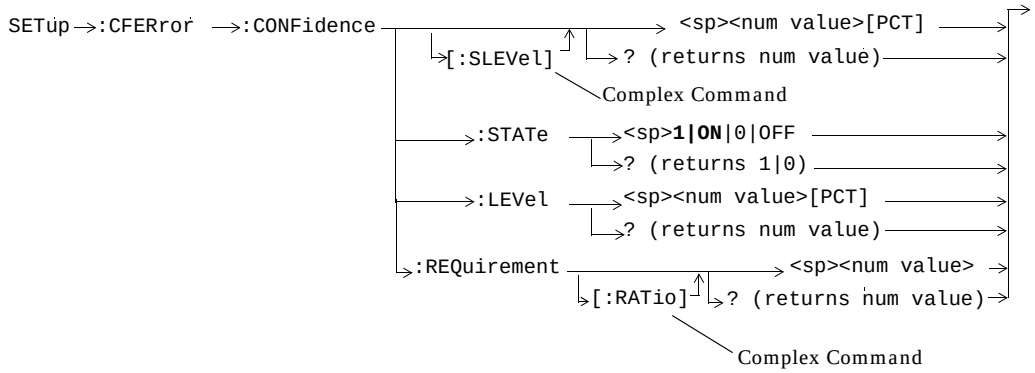


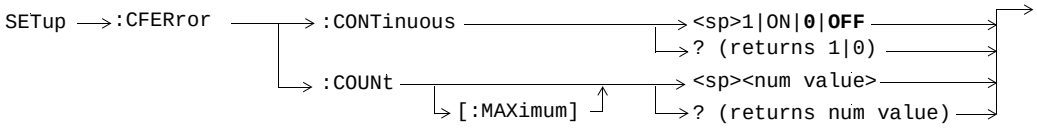
SETup:CCTPhase

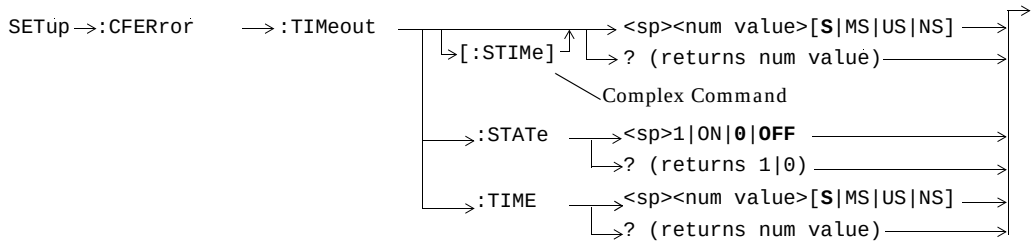




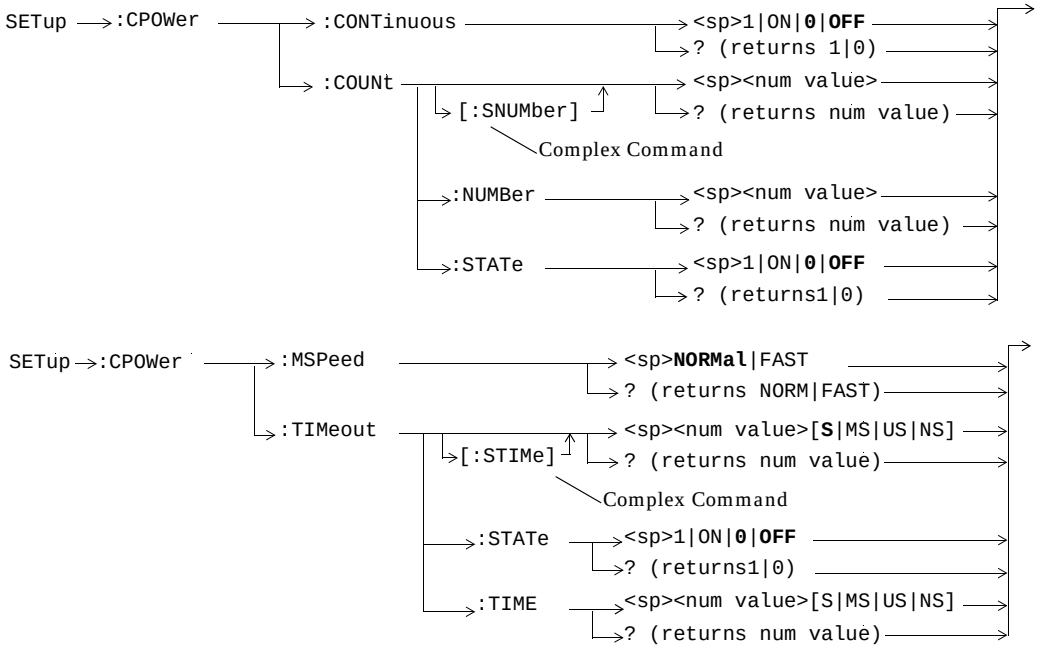
SETup:CFERror



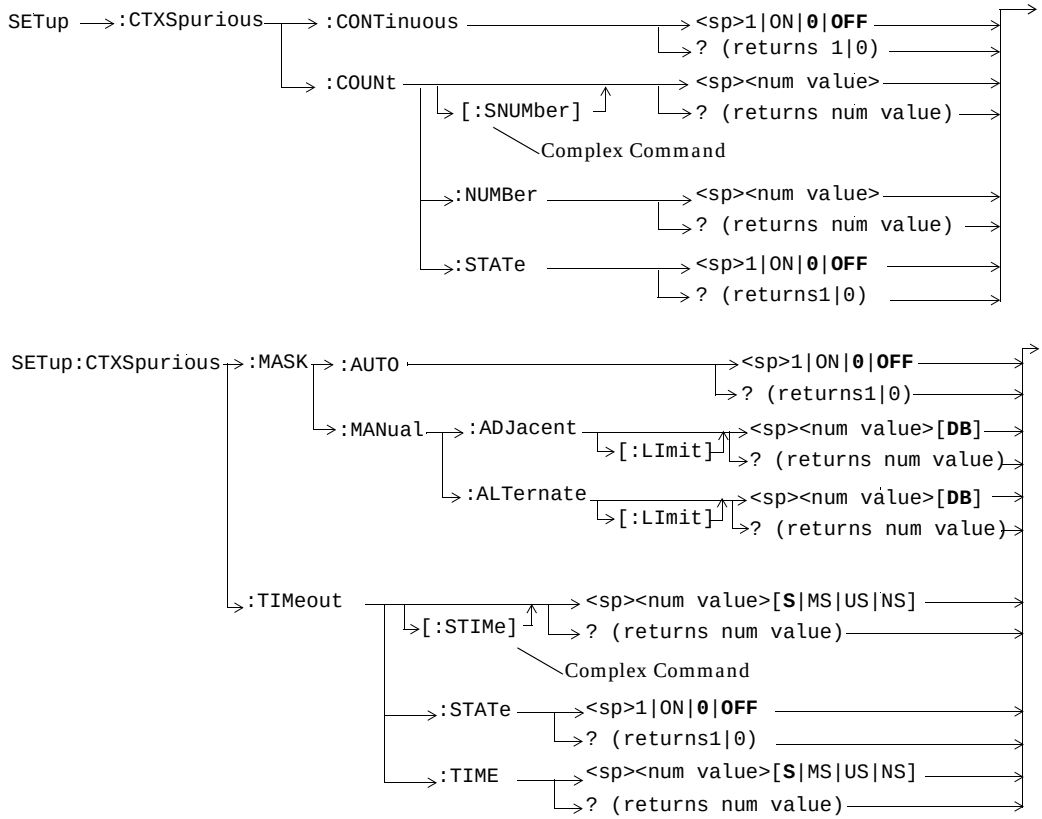




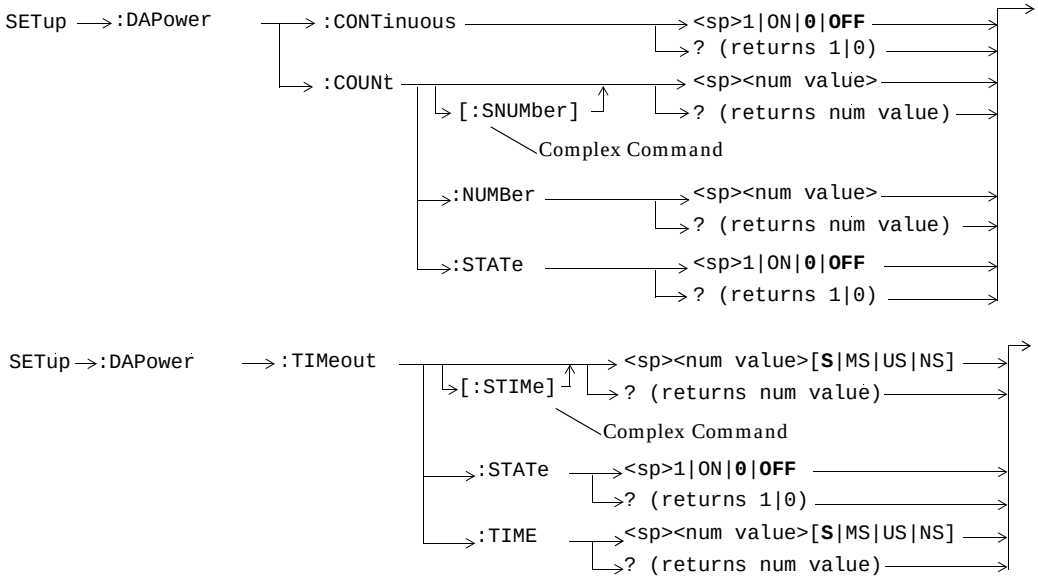
SETup:CPOWer



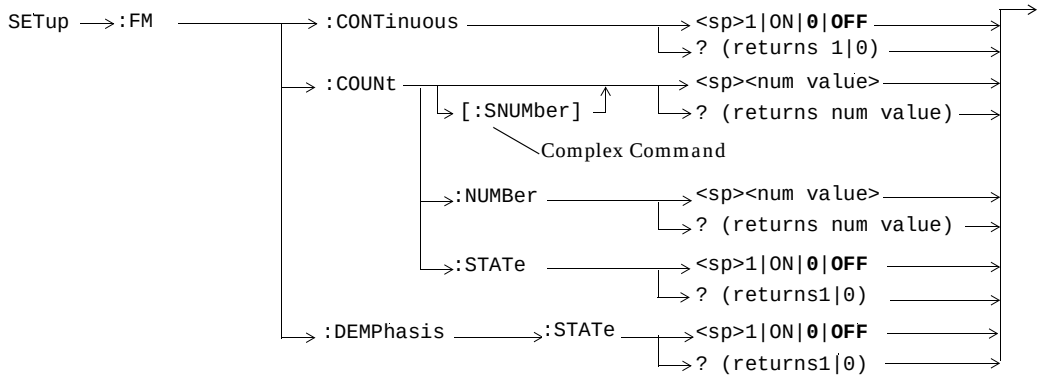
SETup:CTXSpurious

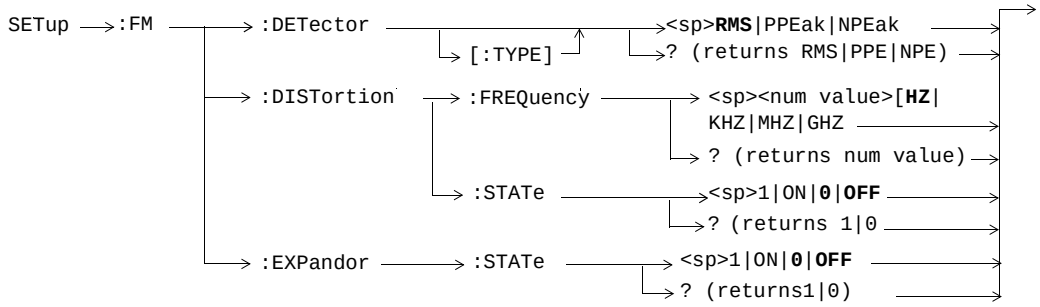


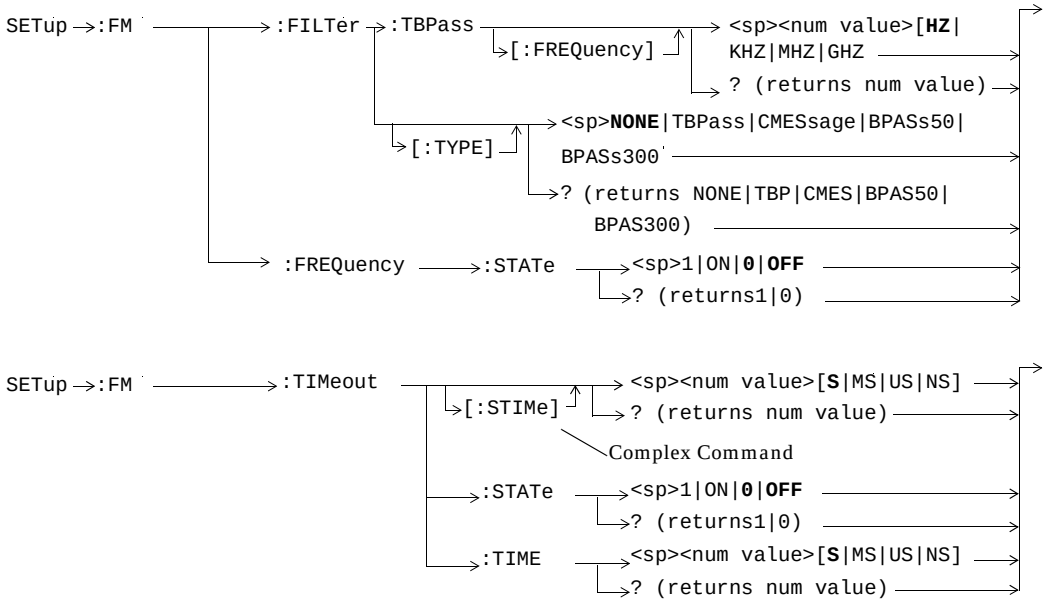
SETup:DAPower



SETup:FM

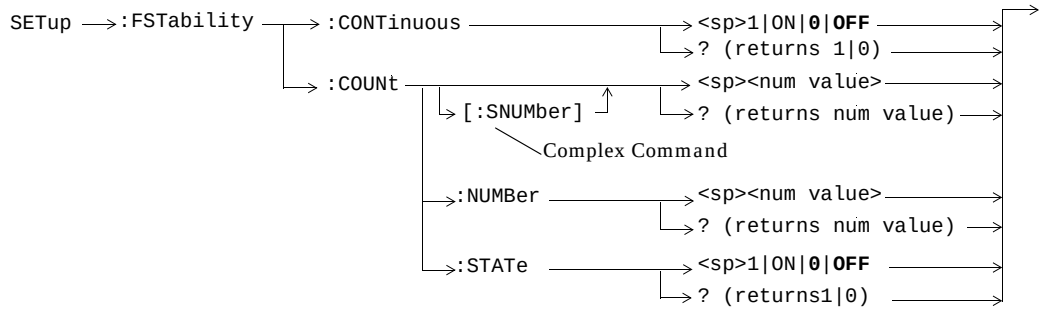

SETup
:FM
:CONTinuous
<sp>1|ON|0|OFF
? (returns 1|0)
:COUNt
<sp><num value>
[:SNUMber]
? (returns num value)
Complex Command
:NUMBer
<sp><num value>
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns1|0)
:DEMPhasis
:STATe
<sp>1|ON|0|OFF
? (returns1|0)

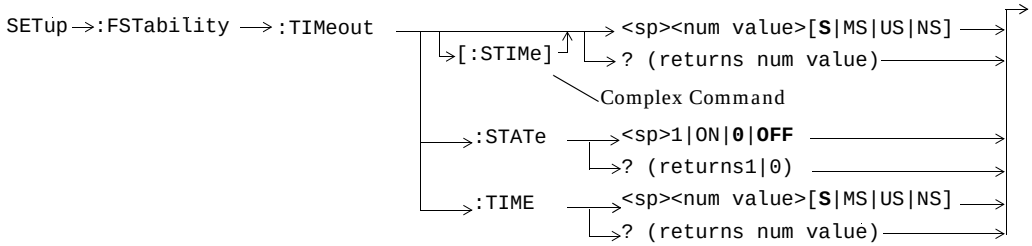

SETup
:FM
:DETector
<sp>RMS|PPEak|NPEak
[:TYPE]
? (returns RMS|PPE|NPE)
:DISTortion
:FREQuency
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0
:EXPandor
:STATe
<sp>1|ON|0|OFF
? (returns1|0)


SETup
:FM
:FILTer
:TBPass
[:FREQuency]
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
[:TYPE]
<sp>NONE|TBPass|CMESsage|BPASs50|
BPASs300
? (returns NONE|TBP|CMES|BPAS50|
BPAS300)
:FREQuency
:STATe
<sp>1|ON|0|OFF
? (returns1|0)

SETup
:FM
:TIMeout
[:STIMe]
<sp><num value>[S|MS|US|NS]
? (returns num value)
Complex Command
:STATe
<sp>1|ON|0|OFF
? (returns1|0)
:TIME
<sp><num value>[S|MS|US|NS]
? (returns num value)

SETup:FSTability





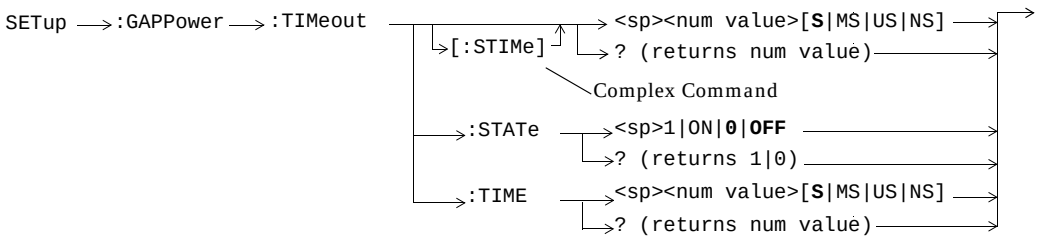
SETup:GAPPower

NOTE The following six Access Probe Power Setup parameters directly affect graphical access probe power measurements:

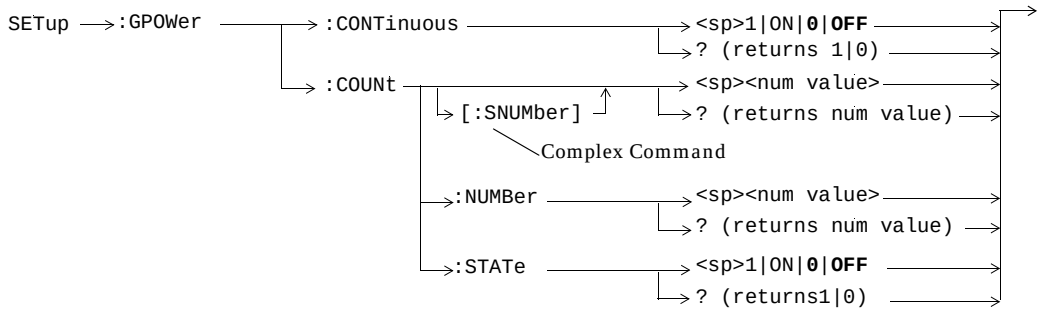
- Nominal Power
- Nominal Power Extended
- Initial Power
- Power Step
- Number of Steps
- Maximum Response Sequence

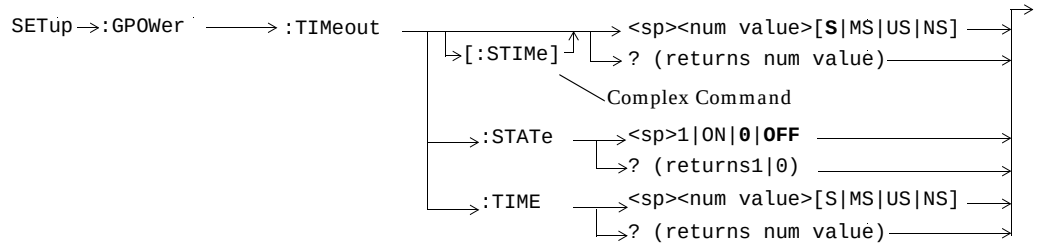
GPIB commands for these parameters can be found in the “CALL:APARameter” syntax diagrams.

To limit a call attempt to the access attempt state, see “CALL:CONNected”

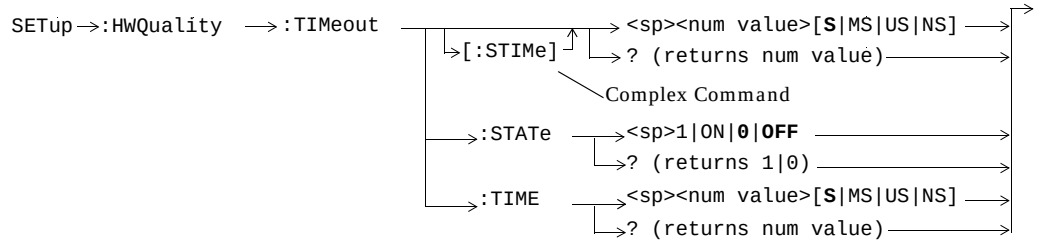


SETup:GPOWer

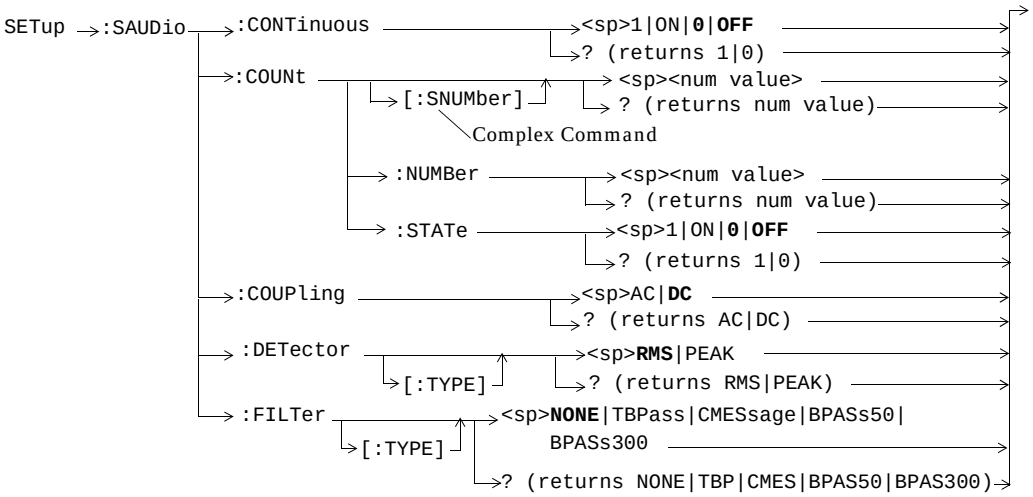




SETup:HWQuality



SETup:SAUDio



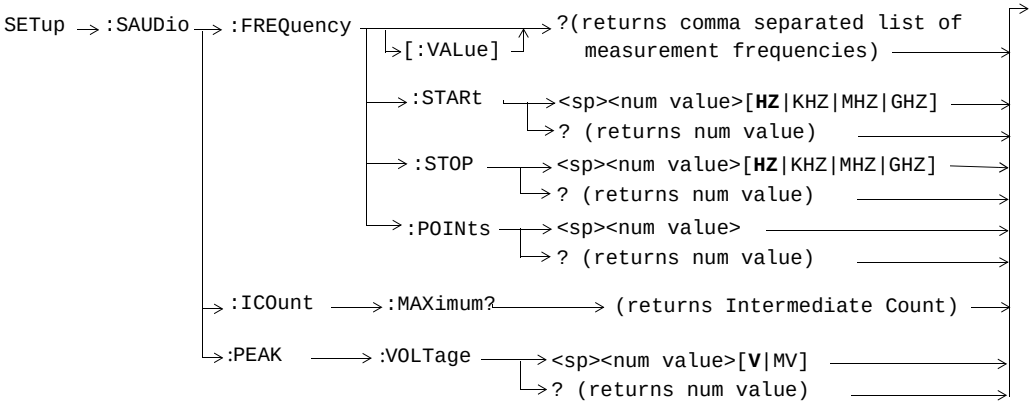
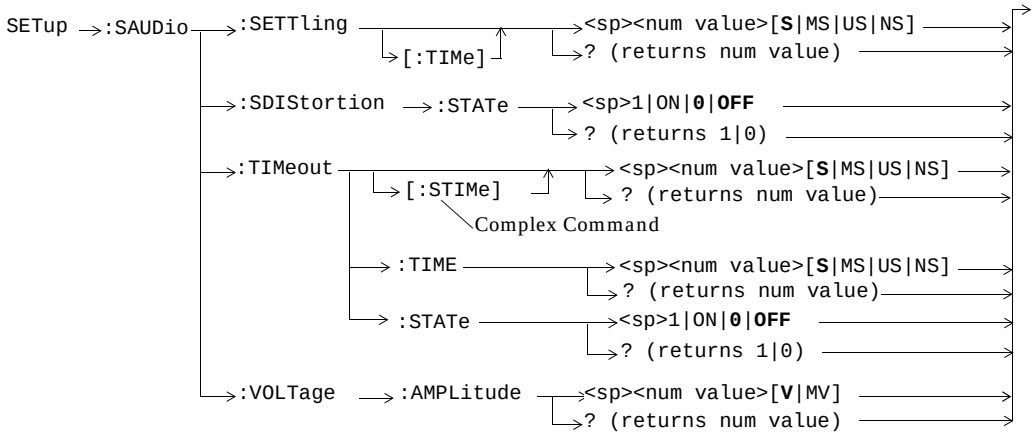


Diagram Conventions



SETup:SMONitor

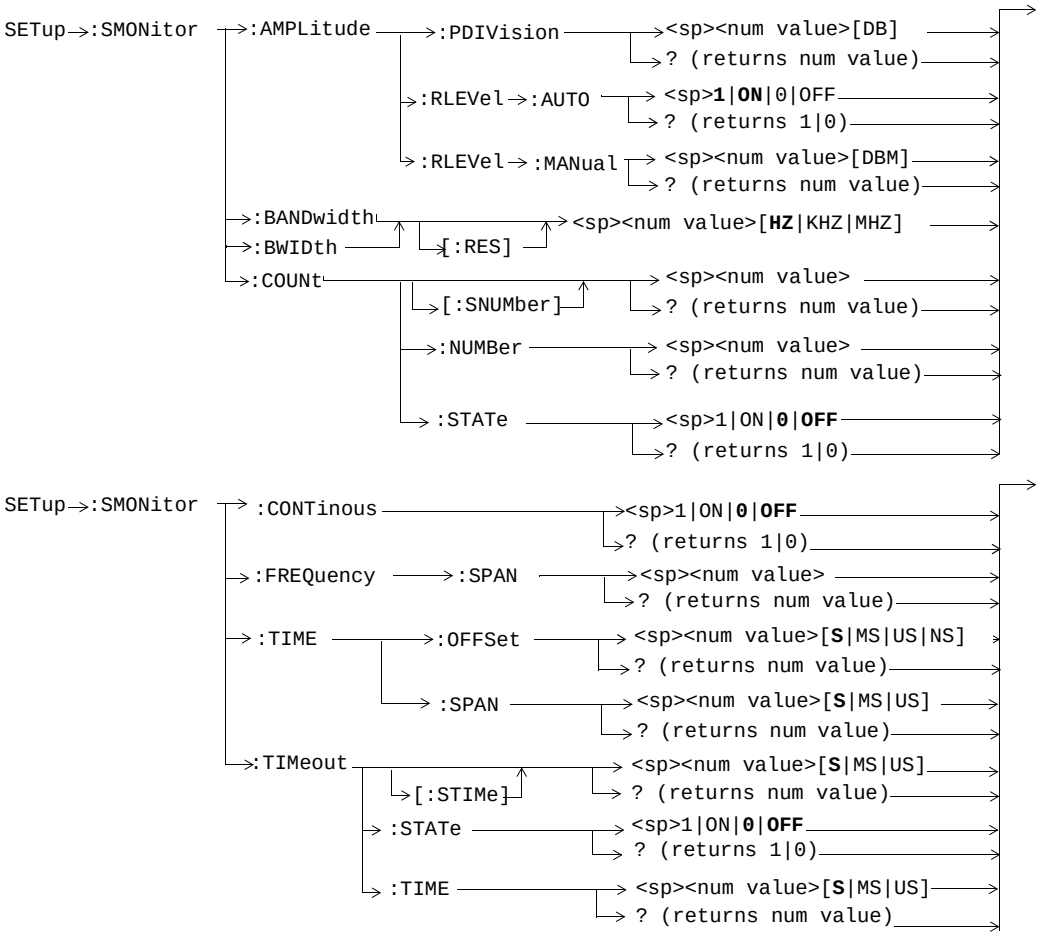
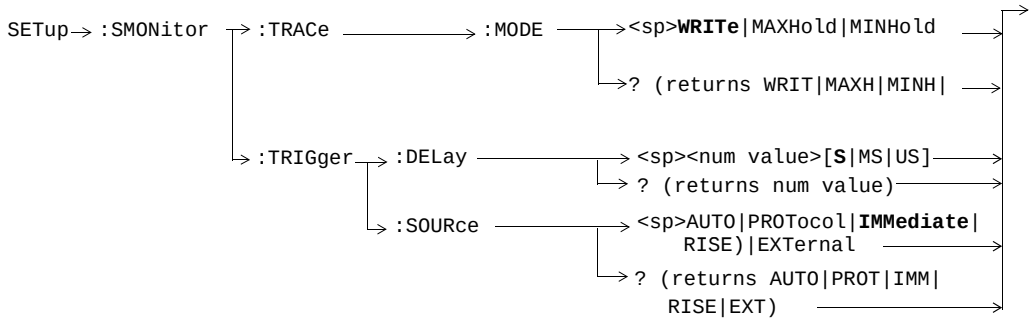
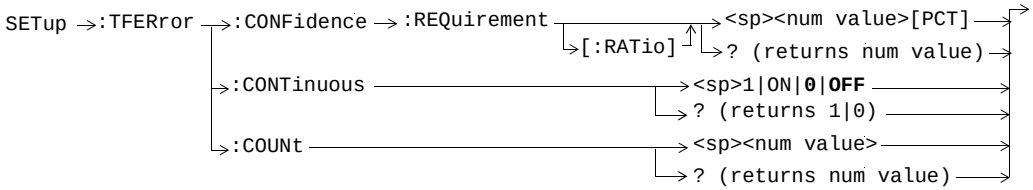
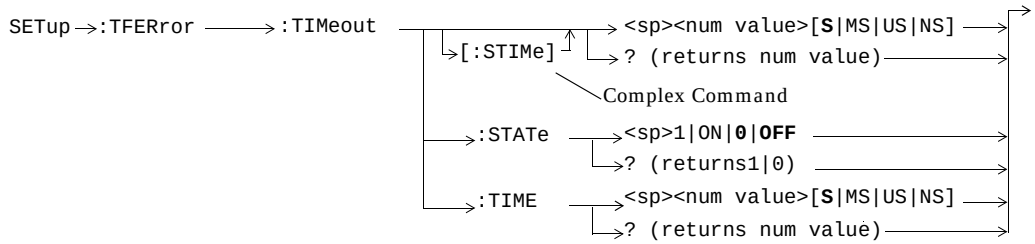


Diagram Conventions

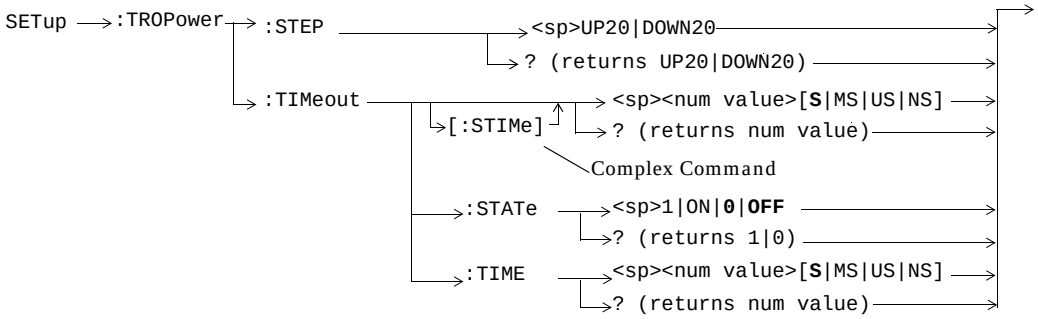


SETup:TFERror

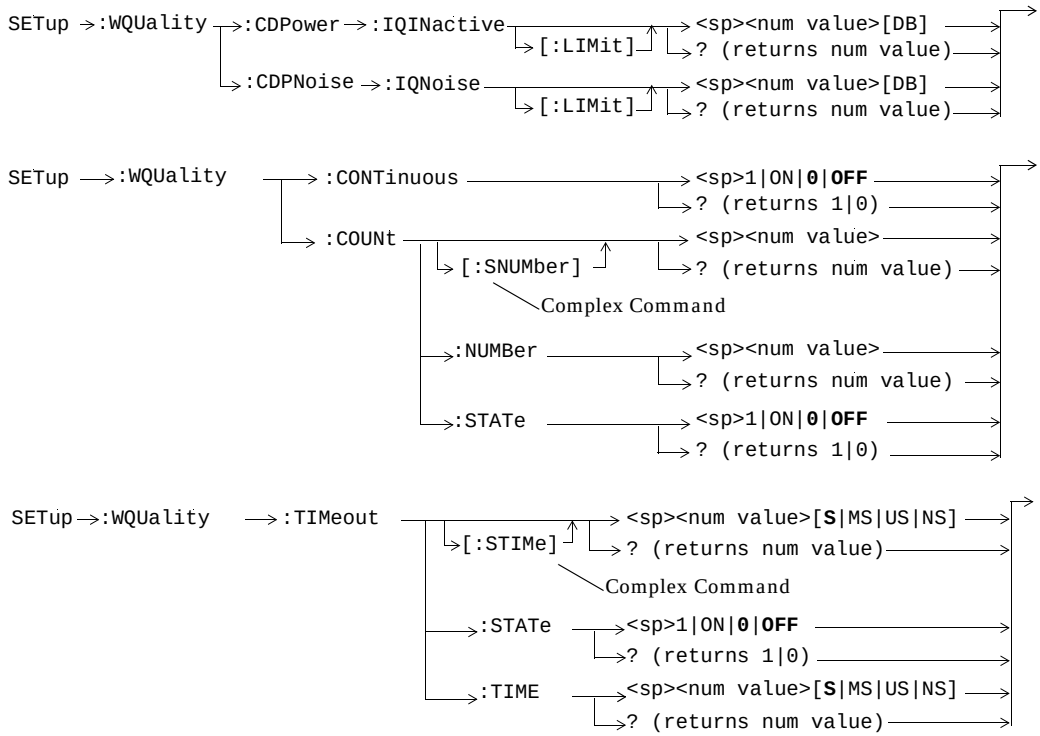




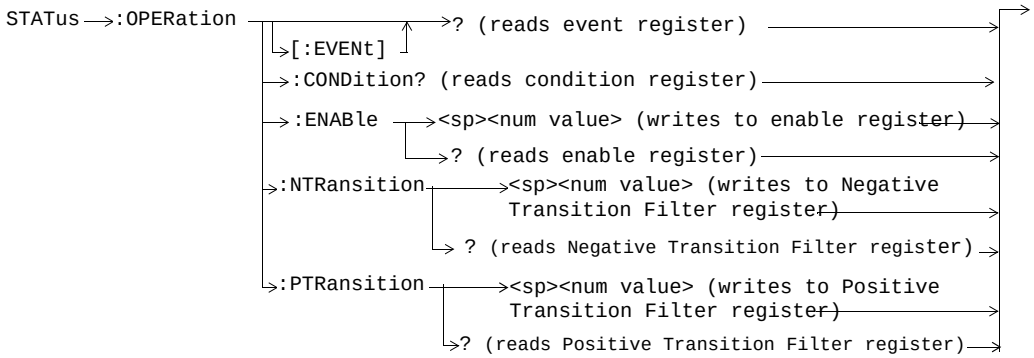
SETup:TROPower

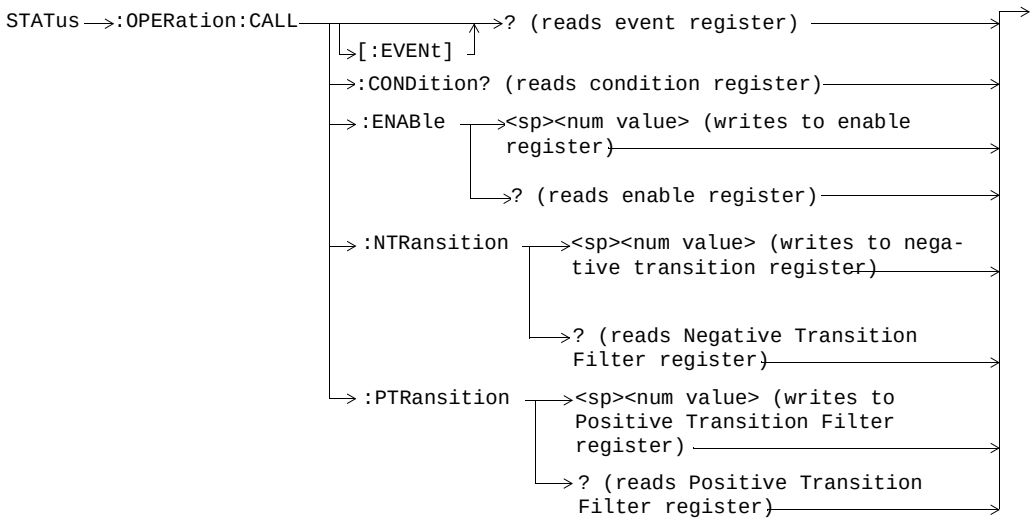


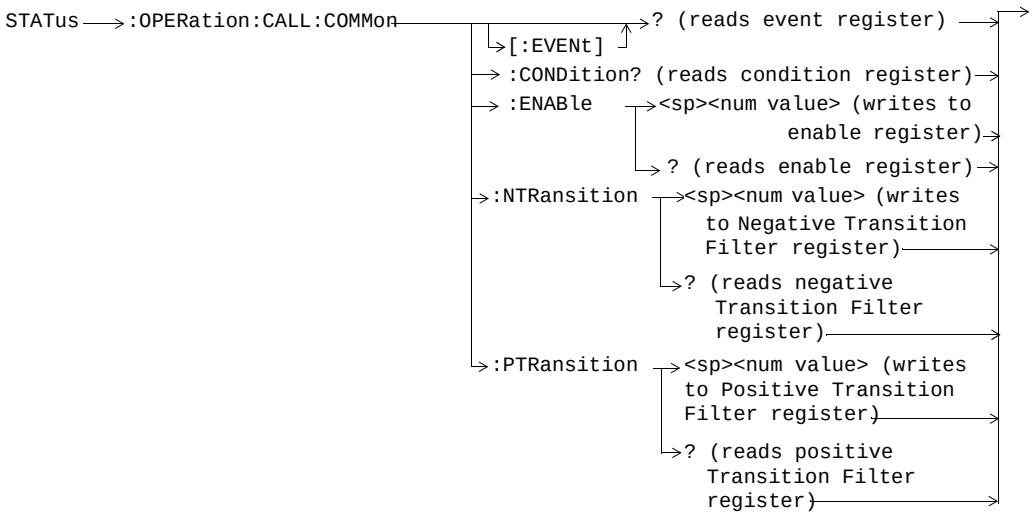
SETup:WQUality

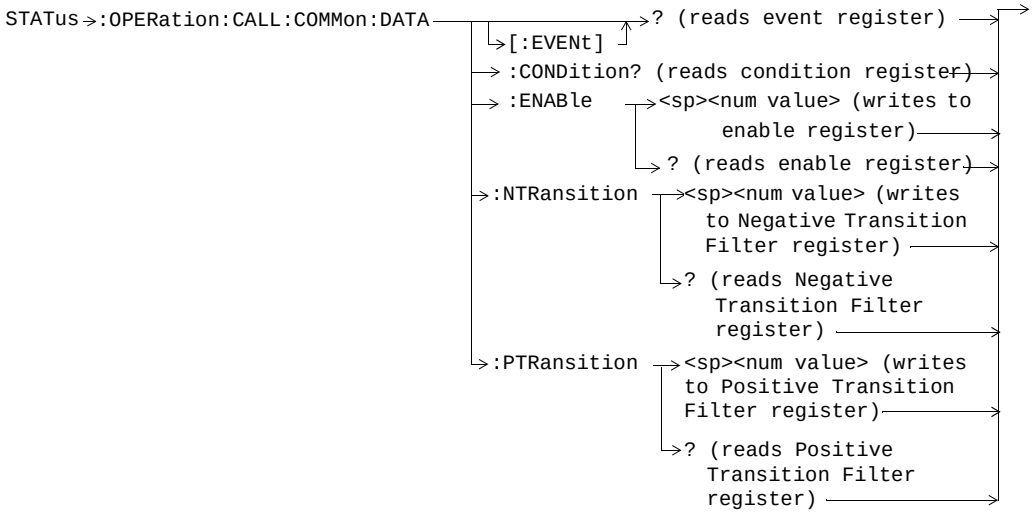


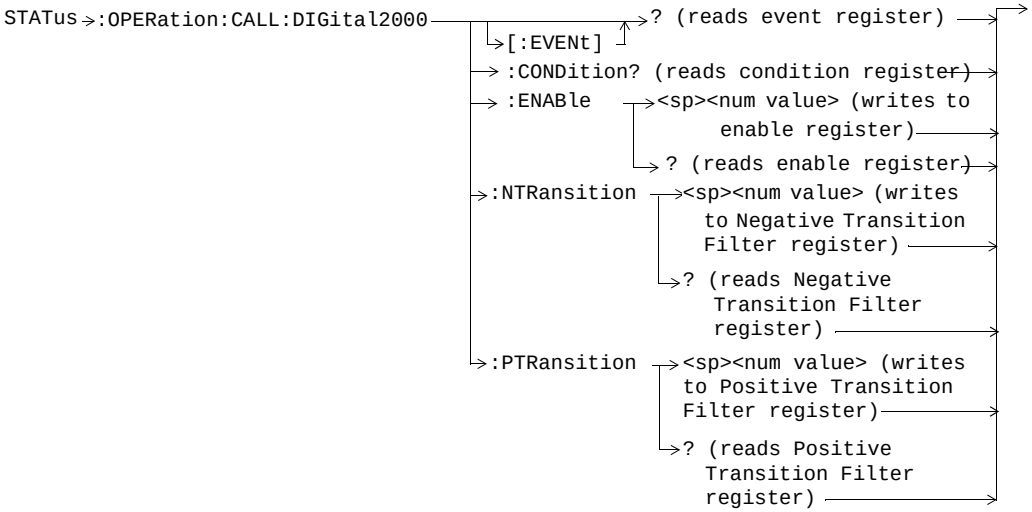
STATus:OPERation

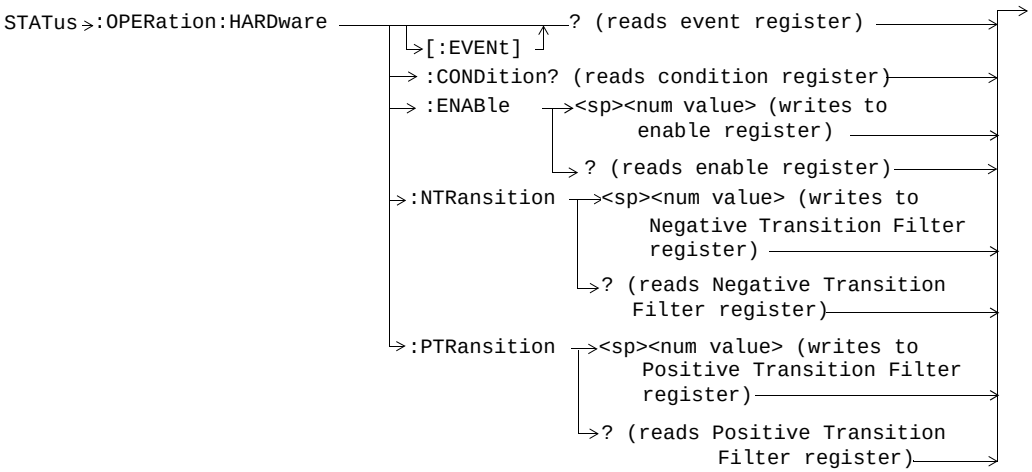


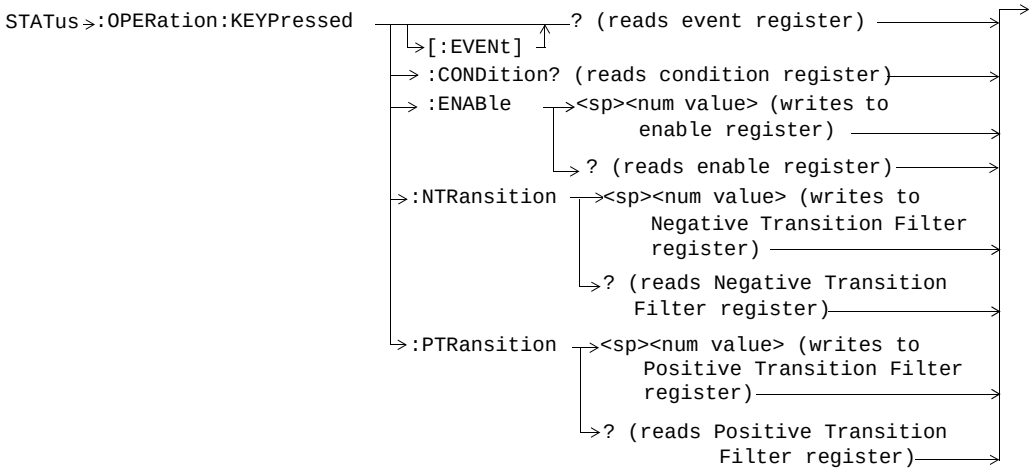


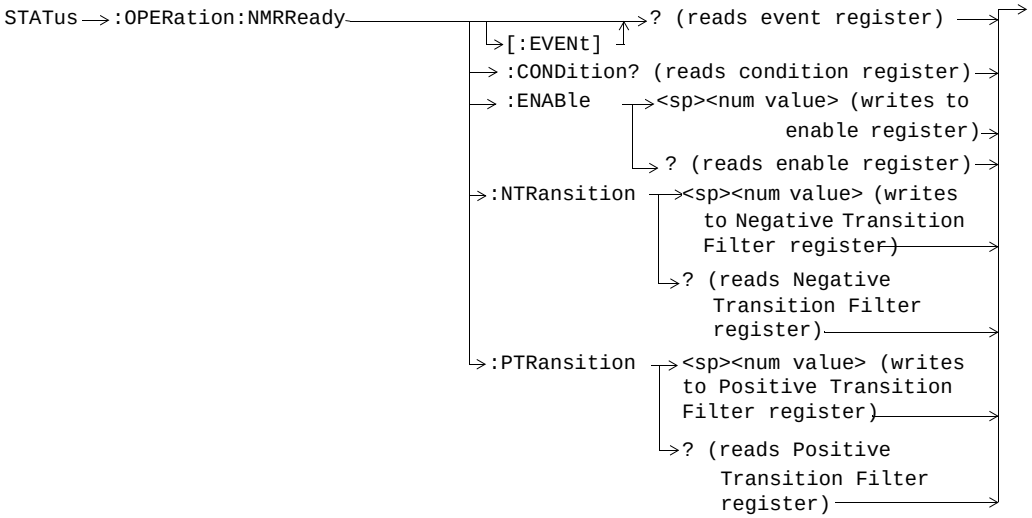

STATus
:OPERation:CALL:COMMon
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads positive Transition Filter register)

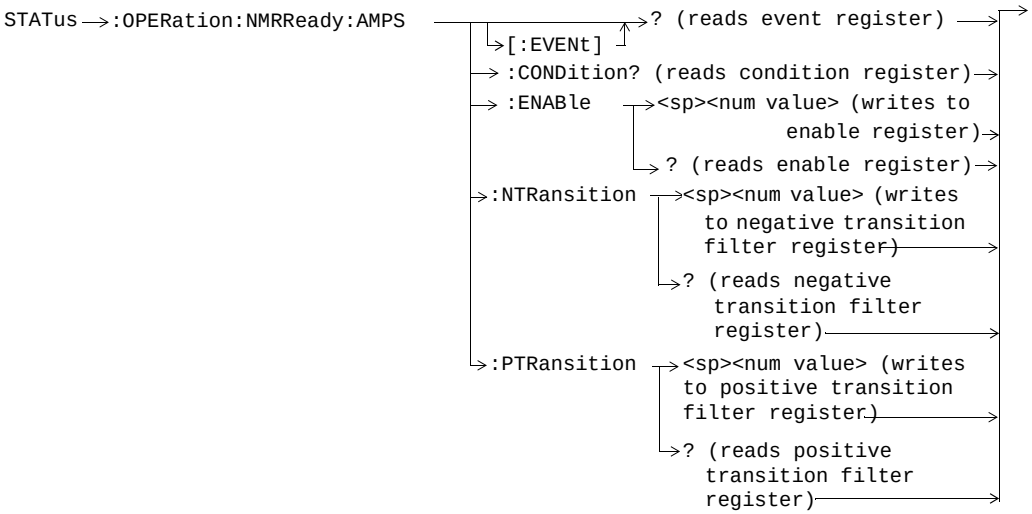

STATus
:OPERation:CALL:COMMon:DATA
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus :OPERation:CALL:DIGital2000
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus :OPERation:HARDware
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus:OPERation:KEYPressed
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus:OPERation:NMRReady
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus
:OPERation:NMRReady:AMPS
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[:EVENt]
:CONDition? (reads condition register)
:ENABle
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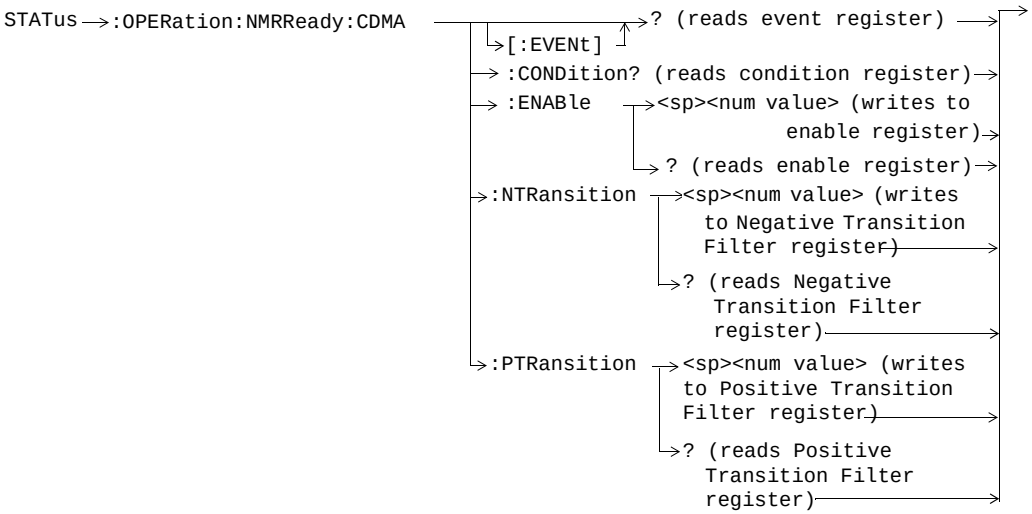
? (reads enable register)
:NTRansition
<sp><num value> (writes to negative transition filter register)
? (reads negative transition filter register)
:PTRansition
<sp><num value> (writes to positive transition filter register)
? (reads positive transition filter register)


STATus
:OPERation:NMRReady:CDMA
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[:EVENt]
:CONDition? (reads condition register)
:ENABle
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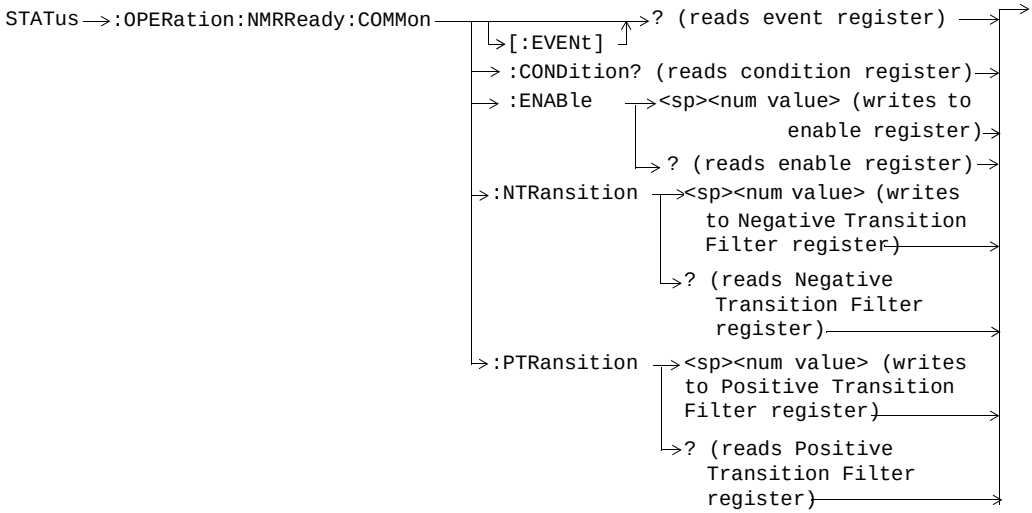
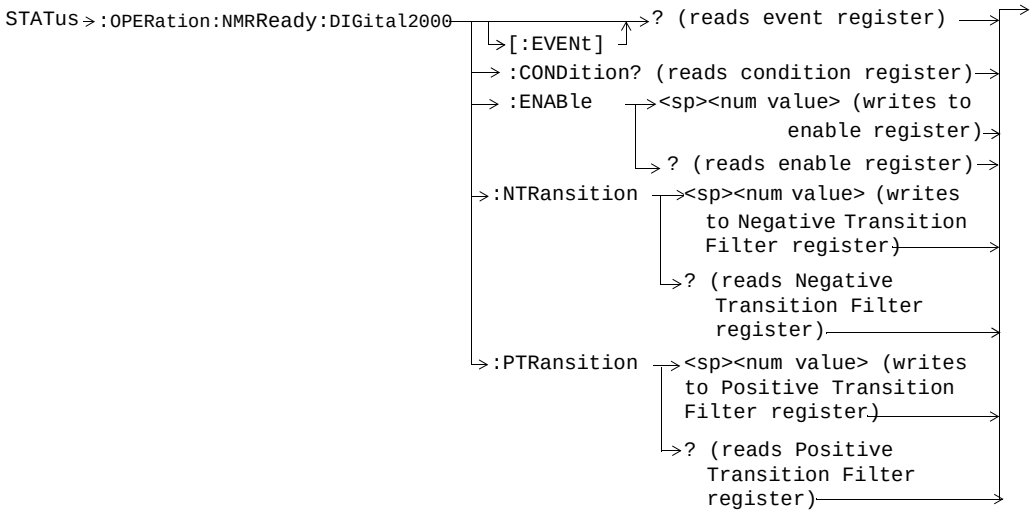
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus
:OPERation:NMRReady:COMMon
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus
:OPERation:NMRReady:DIGital2000
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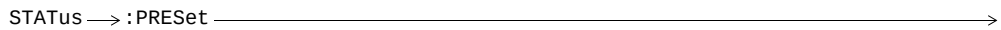
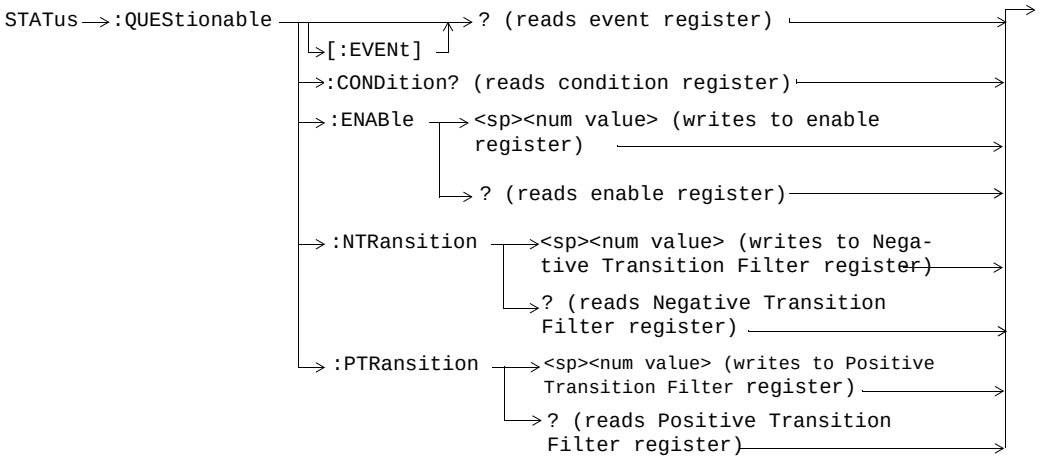
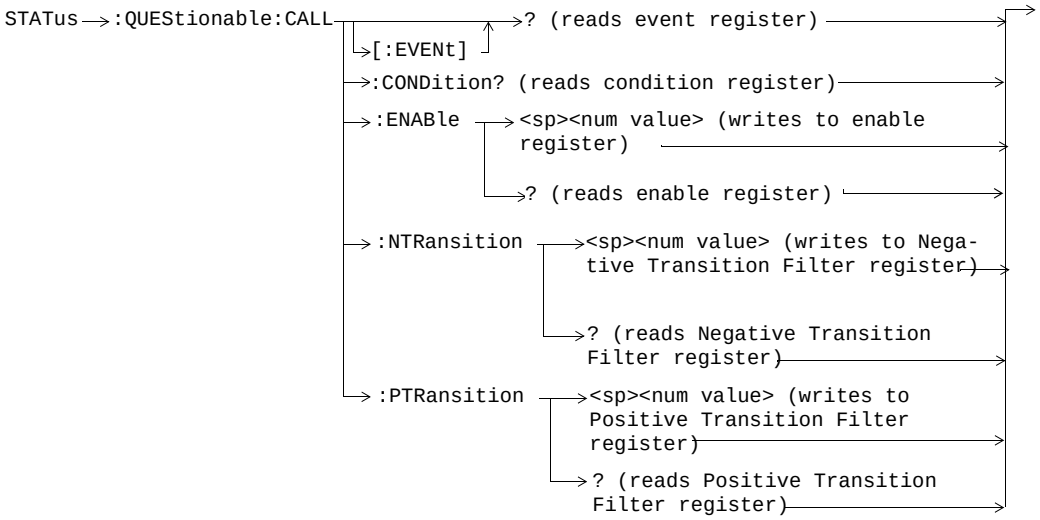
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)

STATus:PRESet



STATus:QUEStionable





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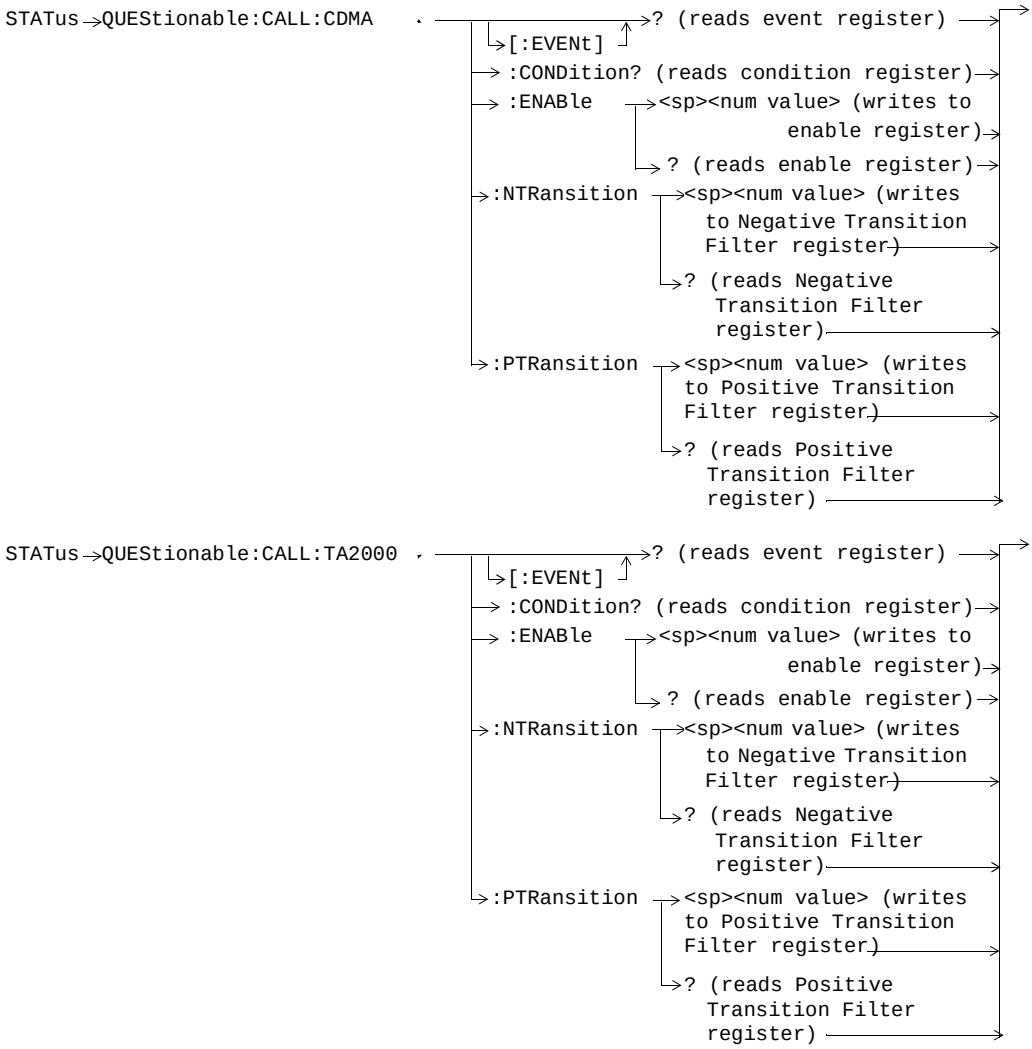

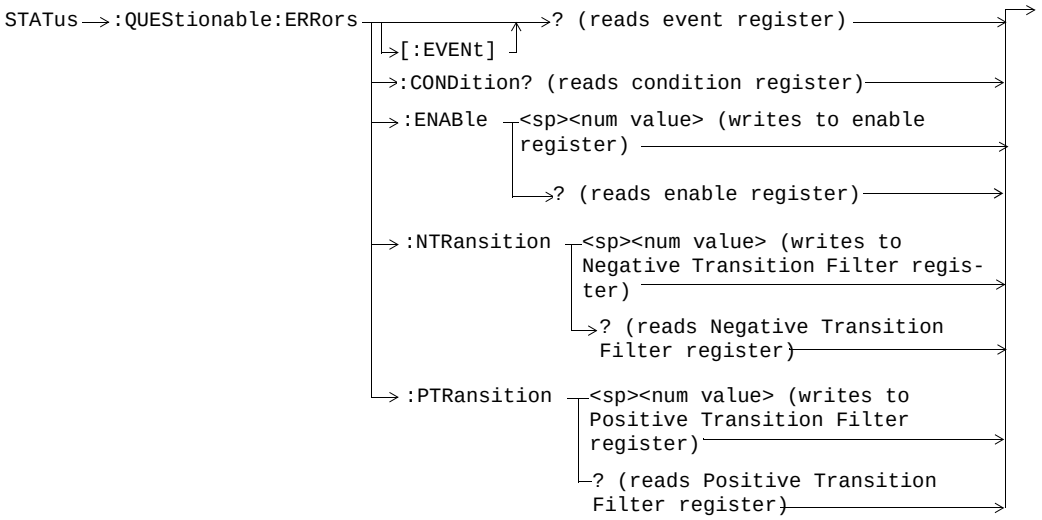
STATus
:QUEStionable:ERRors
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
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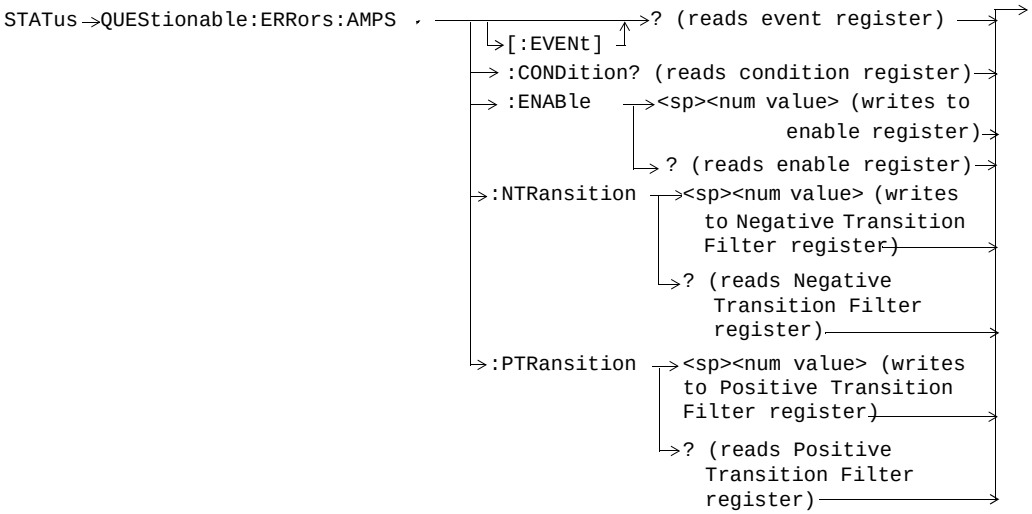
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)


STATus
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:CONDition? (reads condition register)
:ENABle
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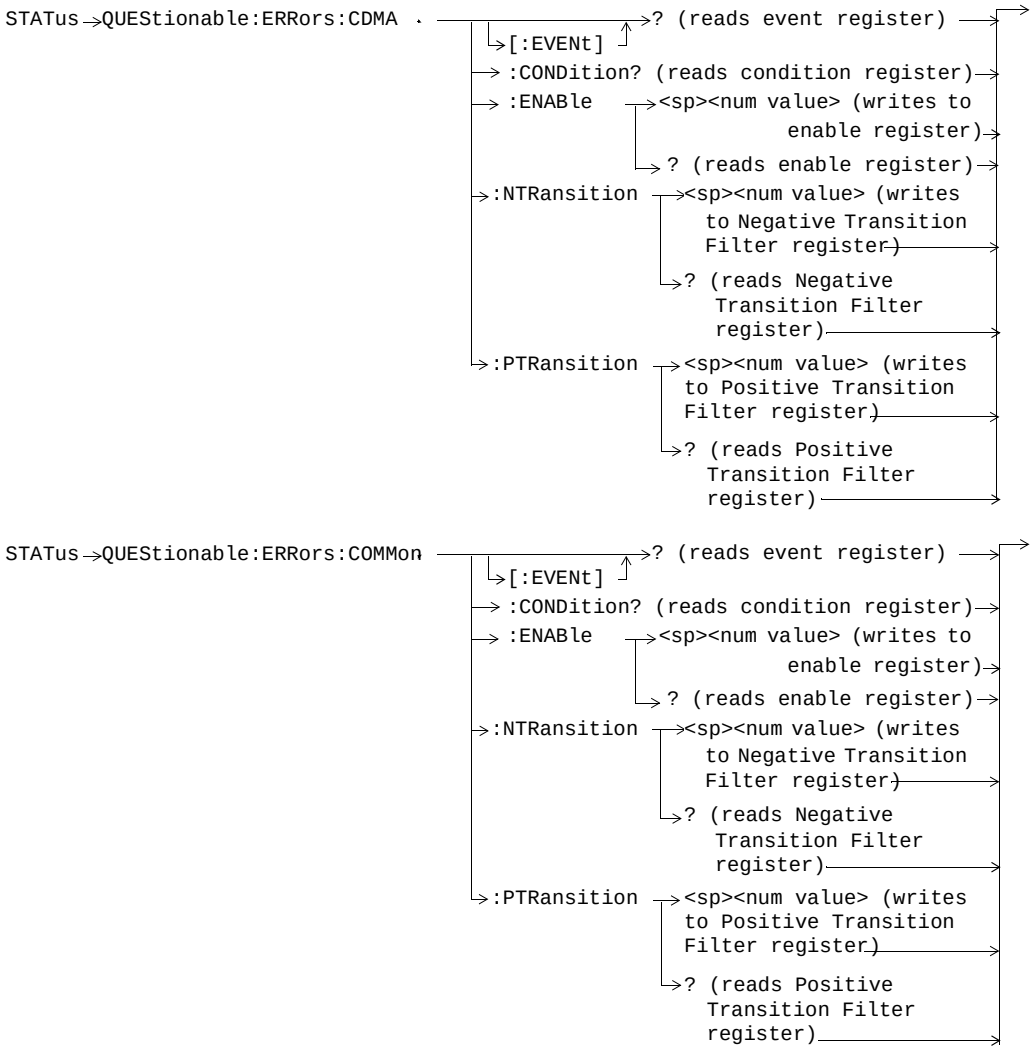
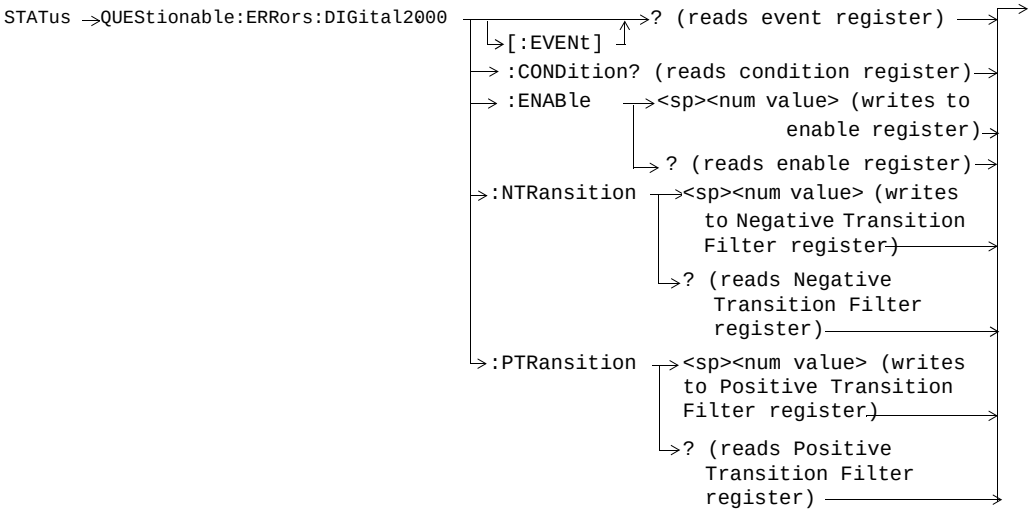
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)

Diagram Conventions




STATus
QUEStionable:ERRors:DIGital2000
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
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? (reads Negative Transition Filter register)
:PTRansition
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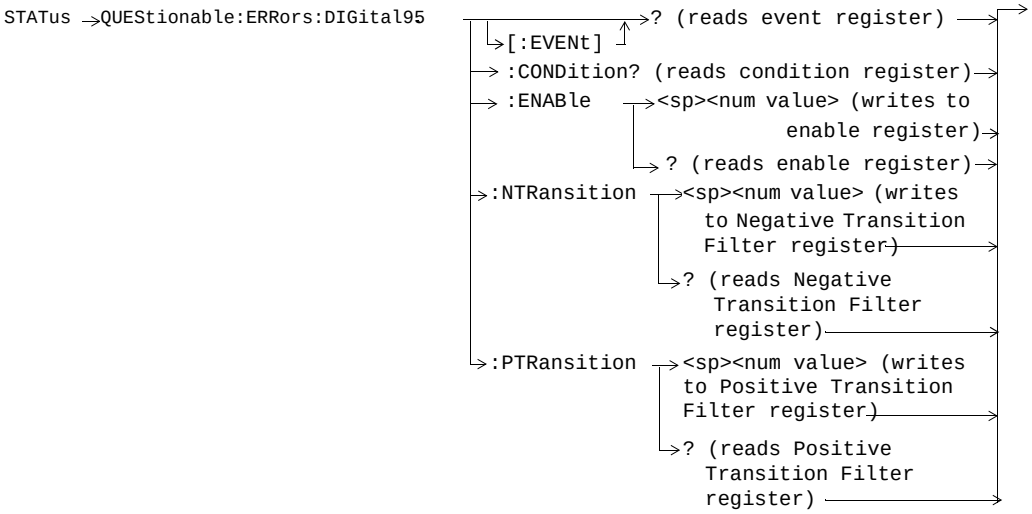
? (reads Positive Transition Filter register)


STATus
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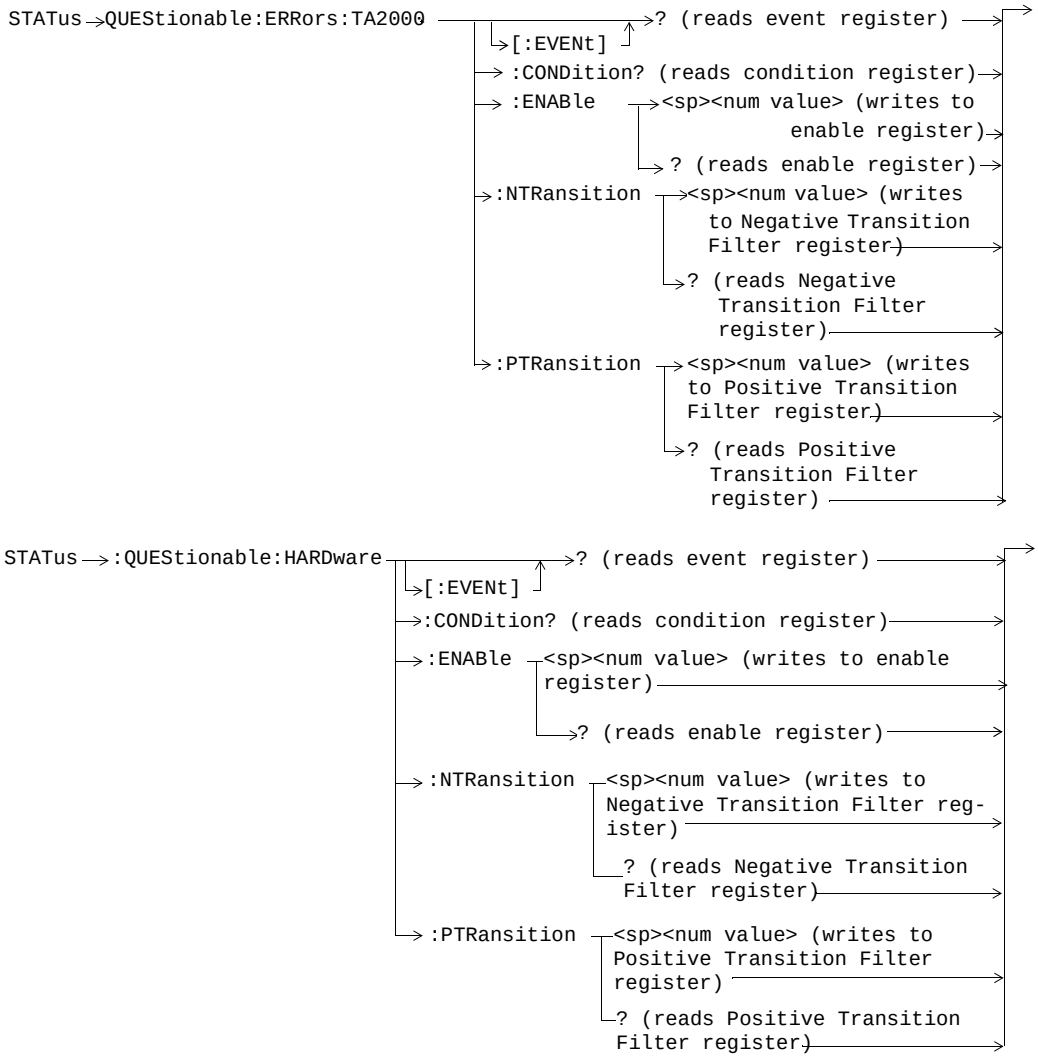
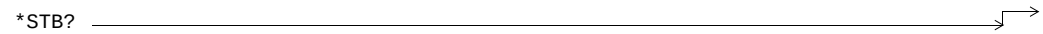
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition
<sp><num value> (writes to Positive Transition Filter register)
? (reads Positive Transition Filter register)

Diagram Conventions



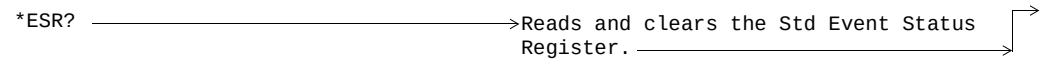
Status Byte Register

***STB?**

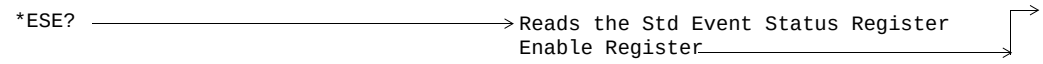


Standard Event Status Register

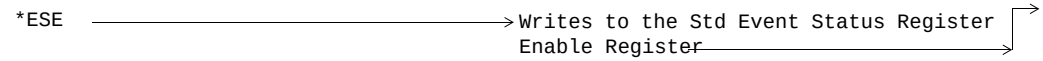
***ESR?**



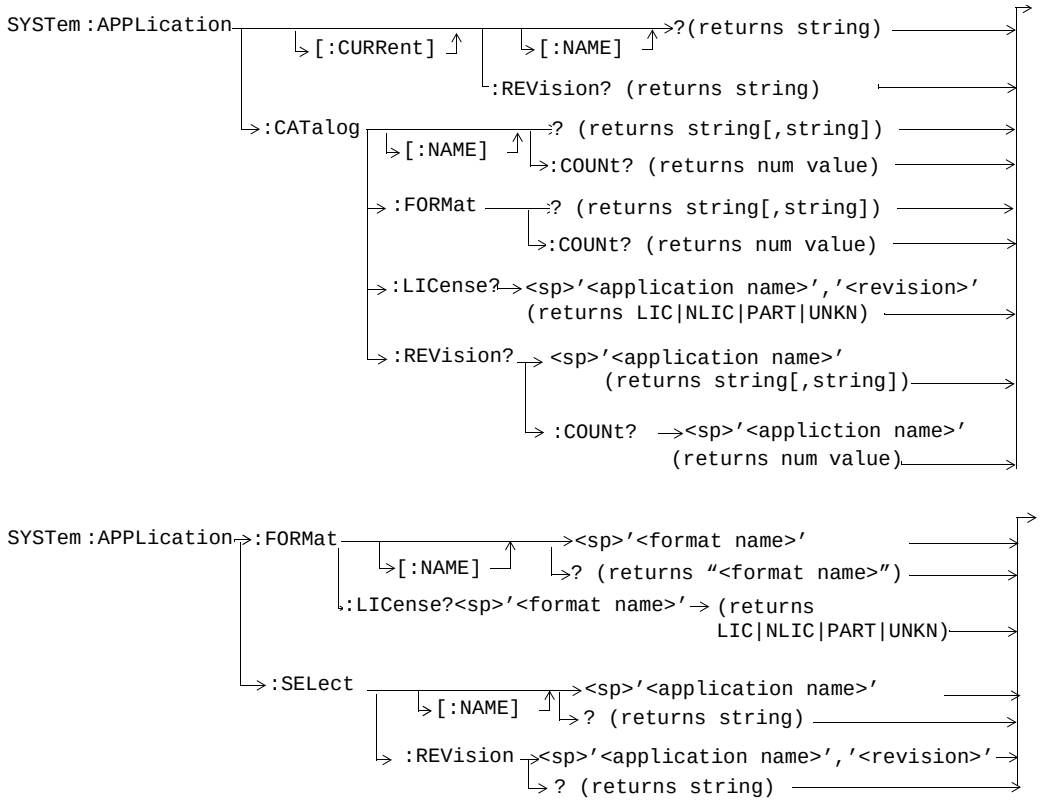
***ESE?**



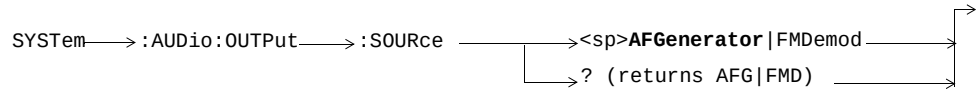
***ESE**

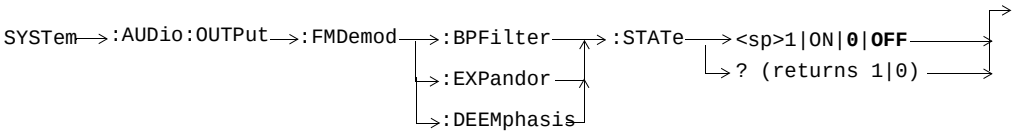


SYSTem:APPLication

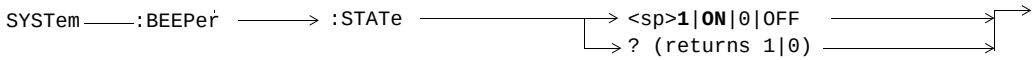


SYSTem:AUDio

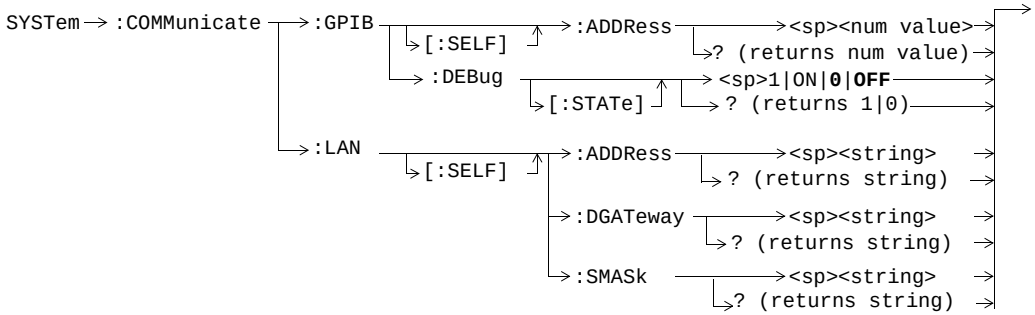




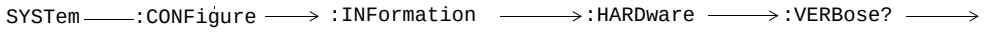
SYSTem:BEEPer



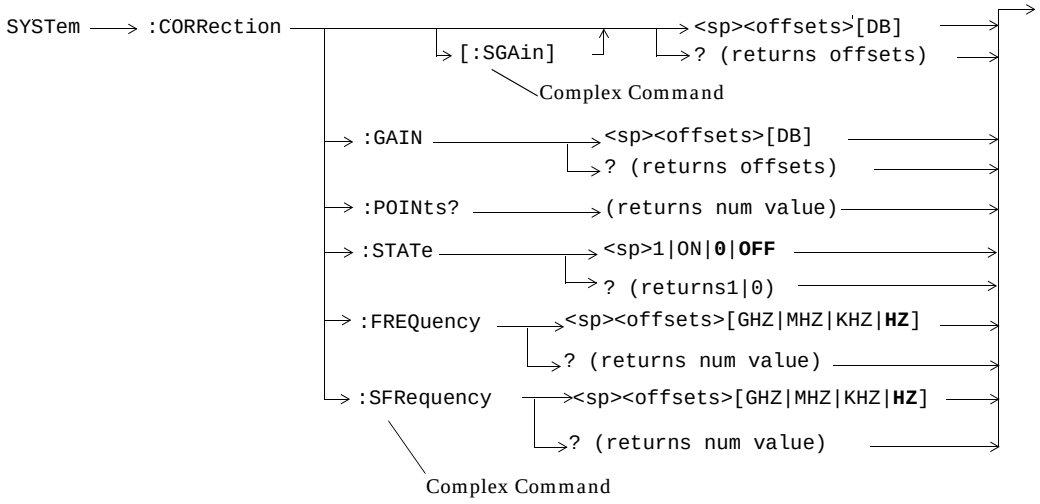
SYSTem:COMMunicate



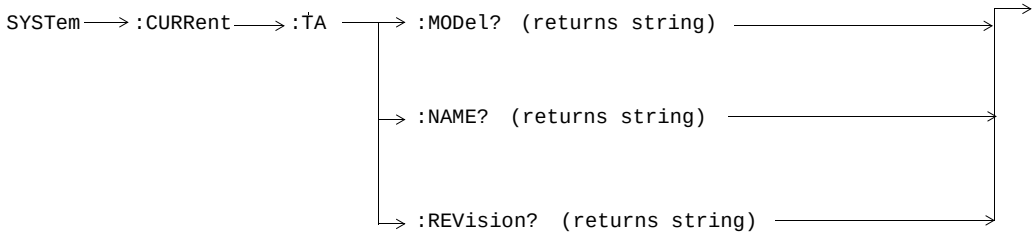
SYSTem:CONFigure



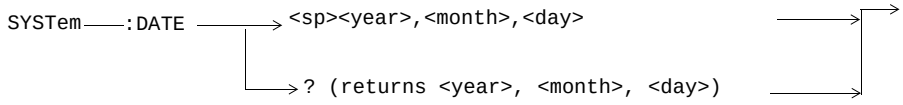
SYSTem:CORRection



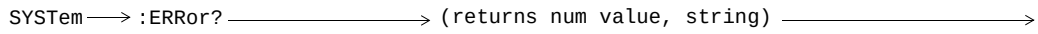
SYSTem:CURRent:TA



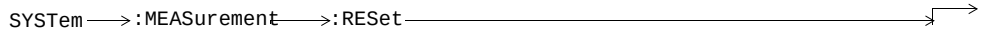
SYSTem:DATE



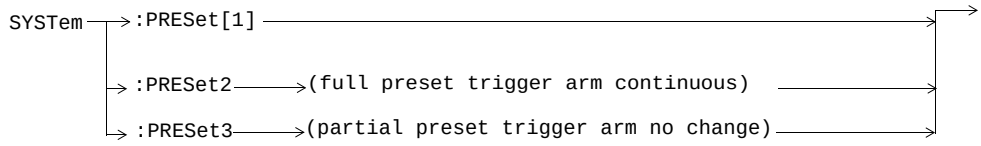
SYSTem:ERRor?



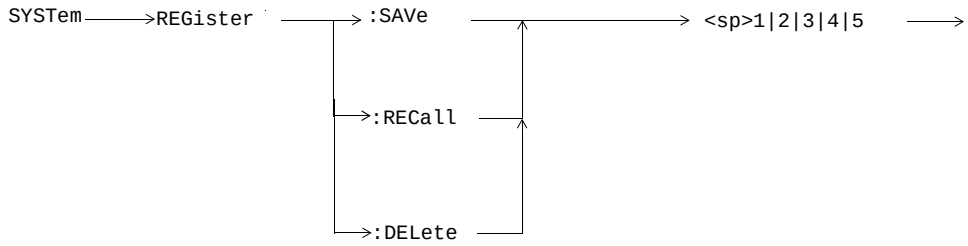
SYSTem:MEASurement



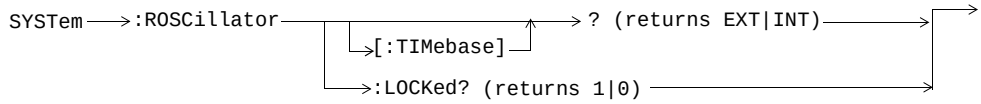
SYSTem:PRESet



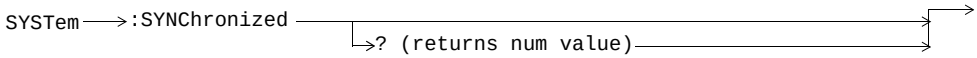
SYSTem:REGister



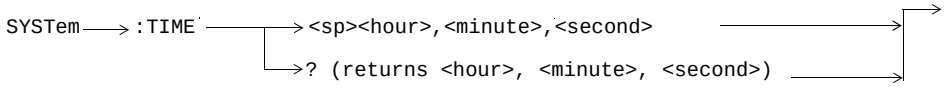
SYSTem:ROSCillator



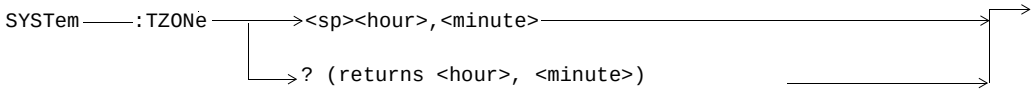
SYSTem:SYNChronized



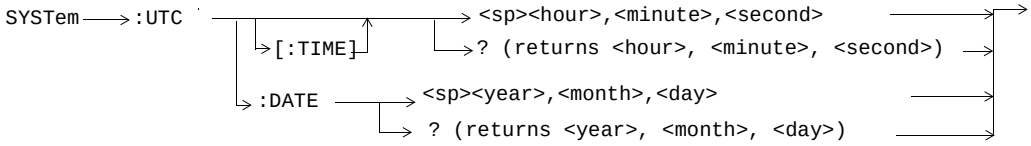
SYSTem:TIME



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 retuned 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.

Index

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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