GPIB Command Syntax

for

GSM/GPRS/EGPRS Mobile Test Application E1968A Revision A.05

GSM/GPRS Lab Application E6701D (including E6704A EGPRS) Revision D.02

1000-1907

Agilent Technologies

Notice

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

Contents

Contents

Contents

Contents

GPIB Syntax for E1968A and E6701D

Description

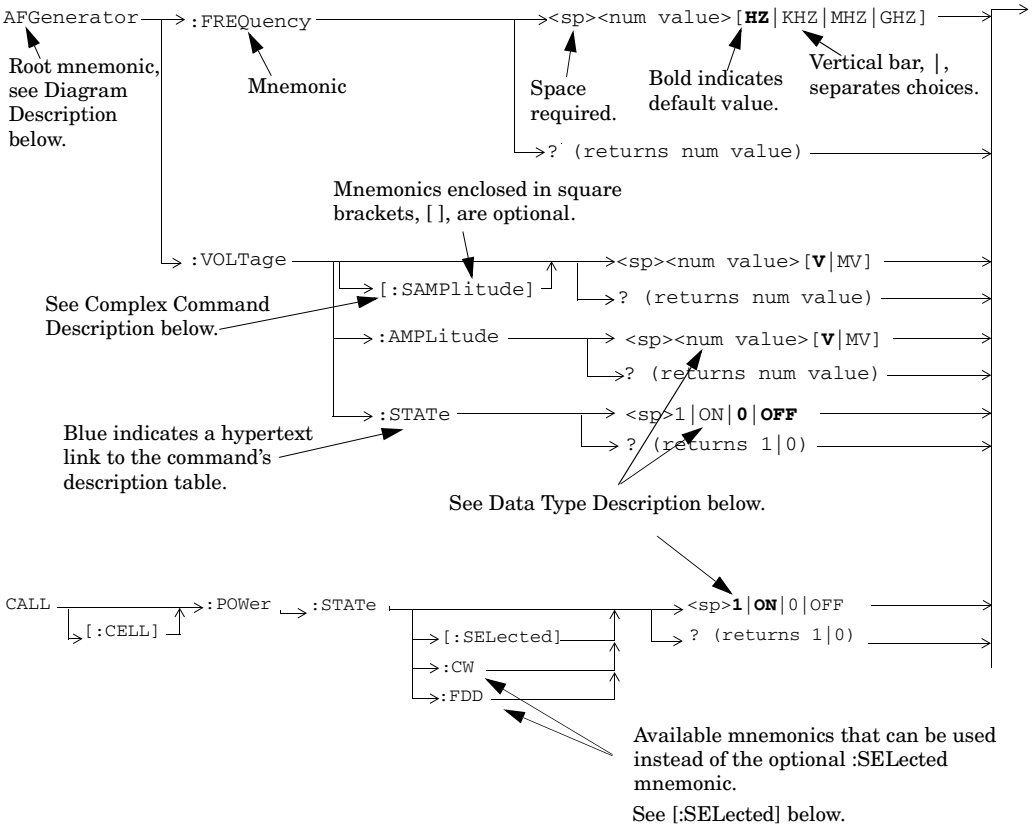


Diagram Description

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

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

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

Complex Command Description

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

Data Type Description

num value	Integer, float or scientific values.
	For example,
	`CALL:POWer -55.5`
	`CALL:POWer -5.55E+001`
	`CALL:CHANnel 525`

string	Characters. The string will often need to be enclosed in single or double quotes, depending upon your programming environment. For example, `CALL:UPLink:PRAChannel:ASUBchannels '111111111111'` The string returned by the test set is enclosed by double quotes.

choice1 | choice2 | choice3	Specific character choices.
	For example,
	`CALL:OPERating:MODE D2KTest`
	`SYSTem:COMMunicate:GPIB:DEBug ON`

[:SELected] Mnemonic

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

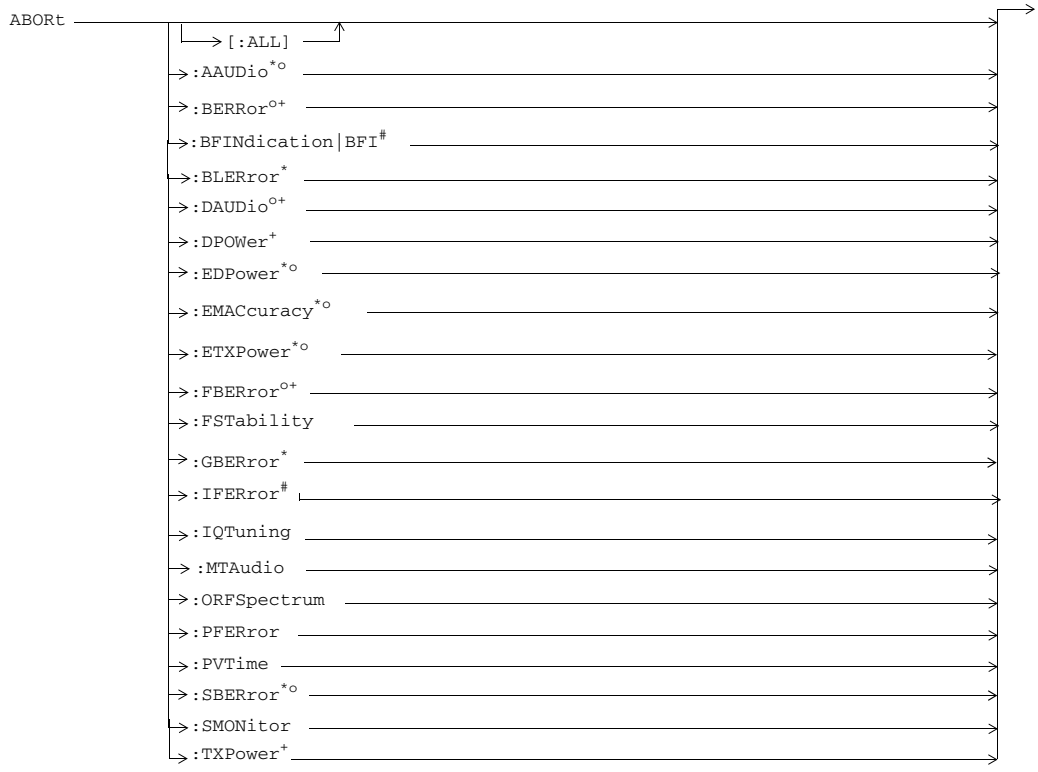
CALL[:CELL]:POWer:AMPLitude[:SELected]

CALL[:CELL]:POWer:AMPLitude:(CW|FDD)

Available mnemonics that can be use instead of the optional [:SELected]

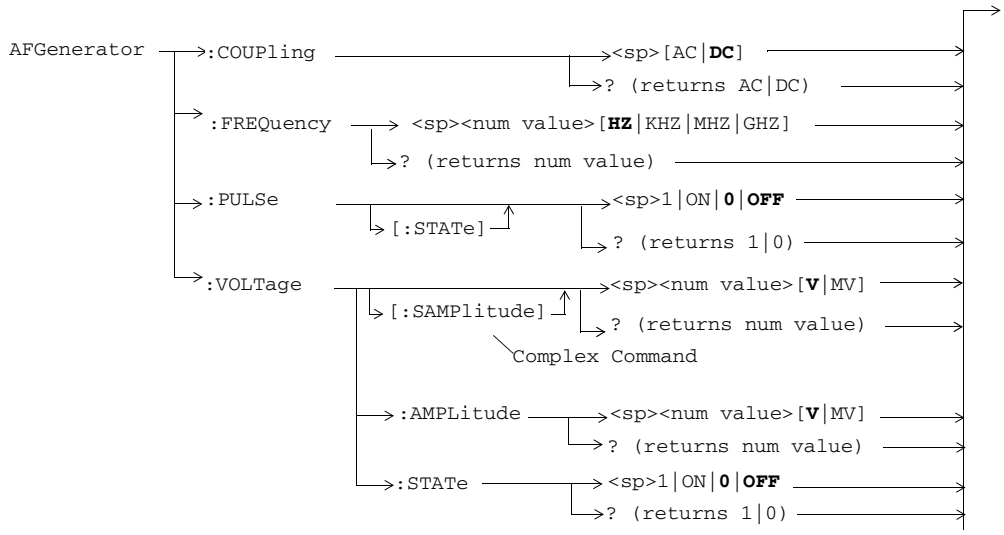
Function	Sets/queries the desired cell power level. (See "Cell Pow information about desired versus current power levels.) The optional [:SELected] keyword in this command spec queried applies to the current system type (see "CALL[:C settings for the CW operating mode are independent of operating modes.
Setting	Range: (This is the range of settings accepted, see "Cell I Ranges" for the actual hardware range of the source • FDD: -165 dBm/3.84MHz to +37 dBm/3.84MHz • CW: -177 dBm to +49 dBm

ABORt

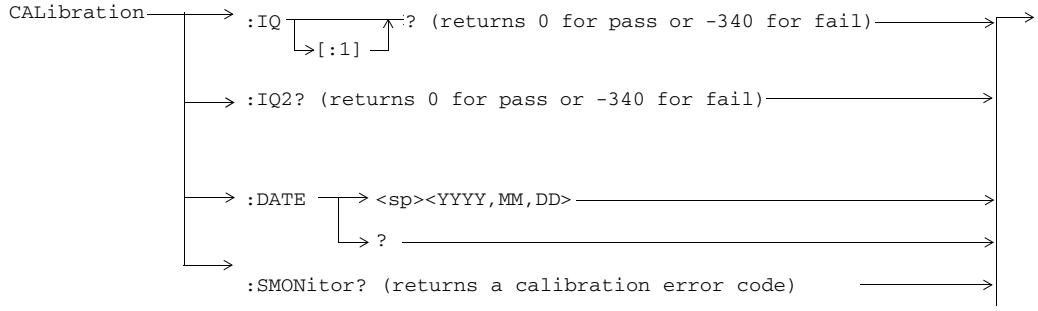


* Not applicable to GSM.
o Not applicable to GPRS.
+ Not applicable to EGPRS.
# Only applicable to the GSM/GPRS lab application.

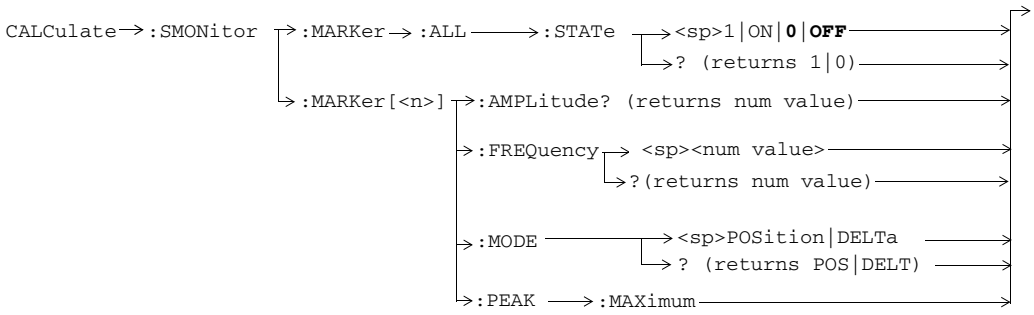
AFGenerator

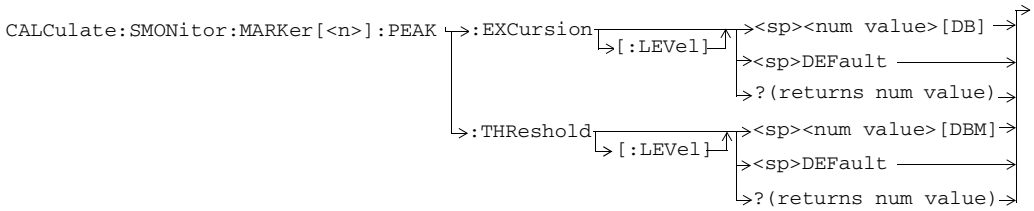


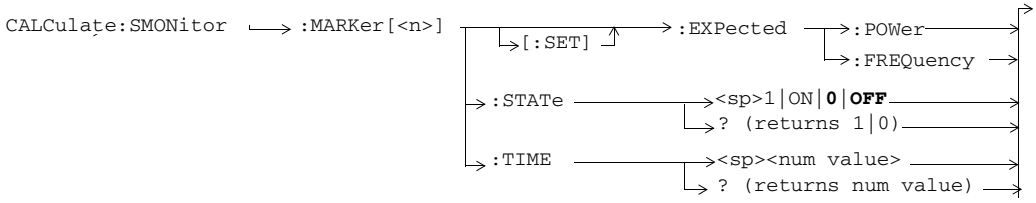
CALibration



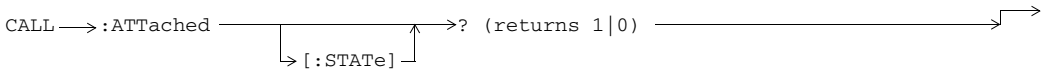
CALCulate:SMONitor





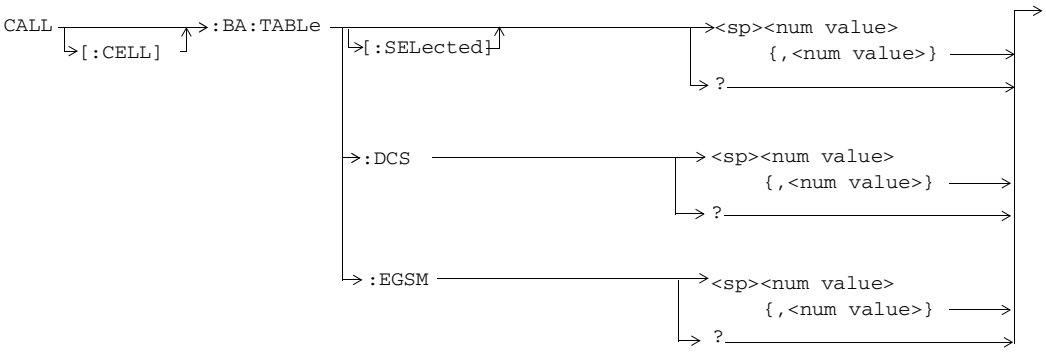


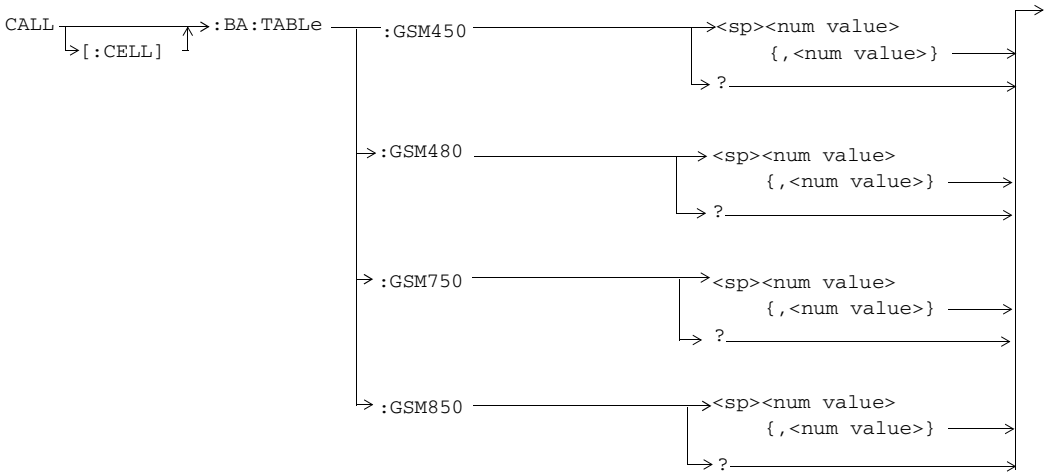
CALL:ATTached

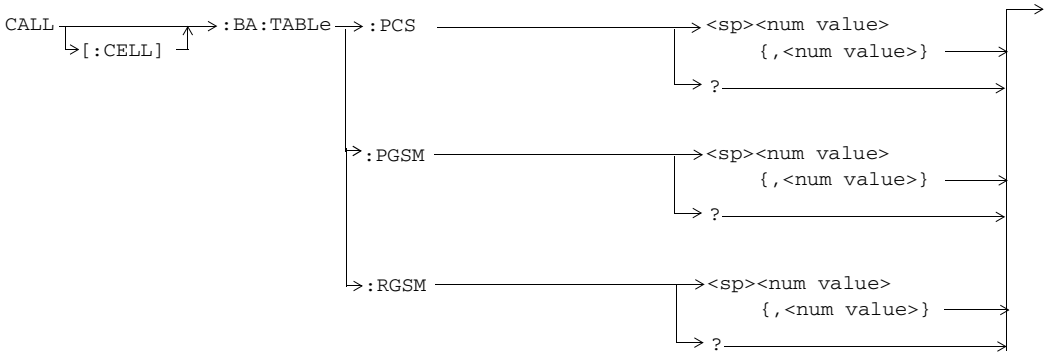


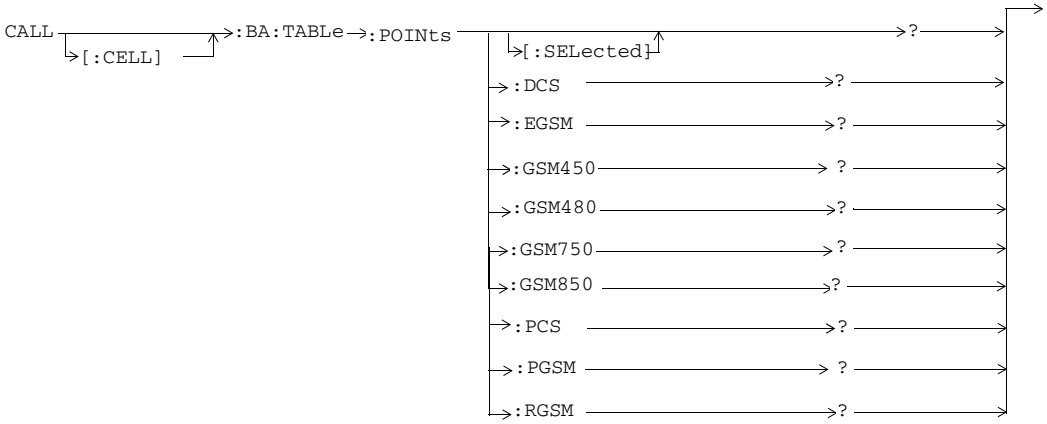
This diagram is not applicable to GSM.

CALL:BA

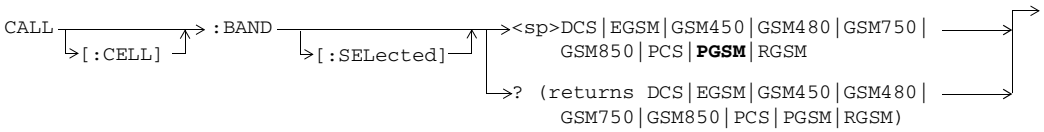



CALL
[:CELL]
:BA:TABLe
:GSM450
<sp><num value>
{,<num value>}
?
:GSM480
<sp><num value>
{,<num value>}
?
:GSM750
<sp><num value>
{,<num value>}
?
:GSM850
<sp><num value>
{,<num value>}
?

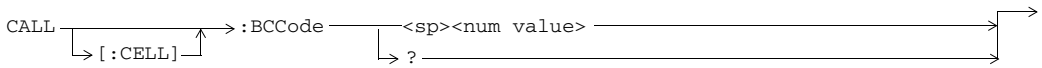

CALL
[:CELL]
:BA:TABLe
:PCS
<sp><num value>
{,<num value>}
?
:PGSM
<sp><num value>
{,<num value>}
?
:RGSM
<sp><num value>
{,<num value>}
?



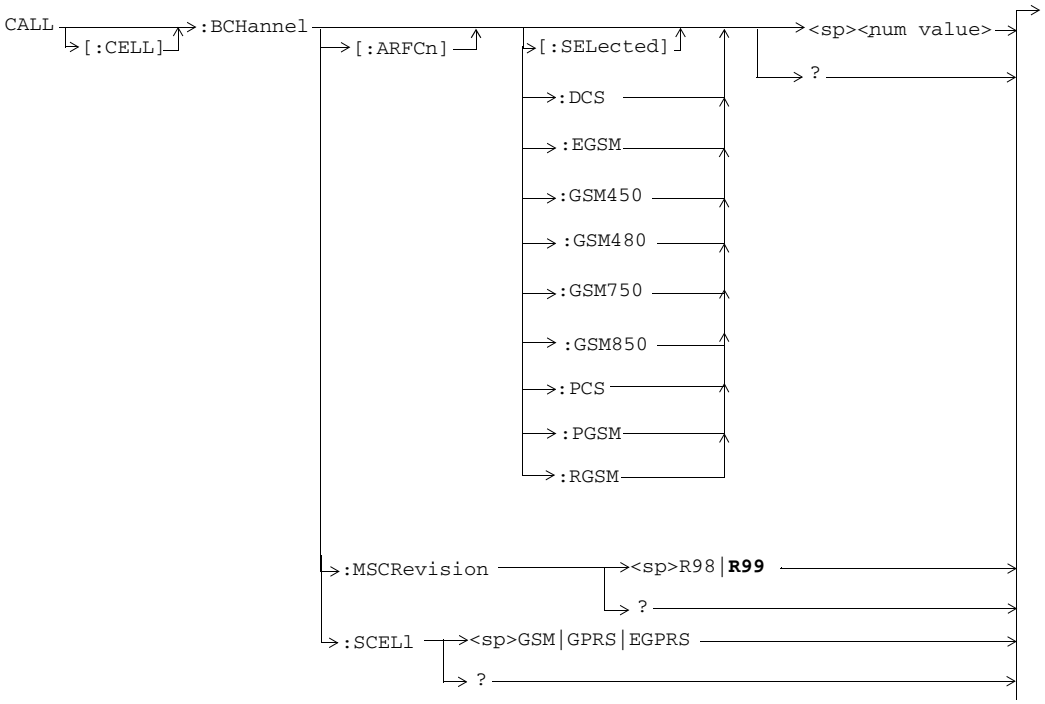
CALL:BAND



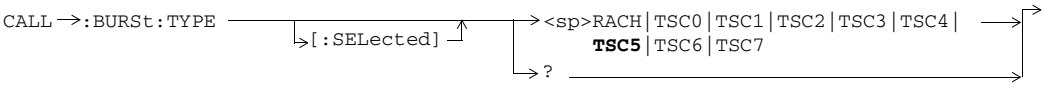
CALL:BCCode



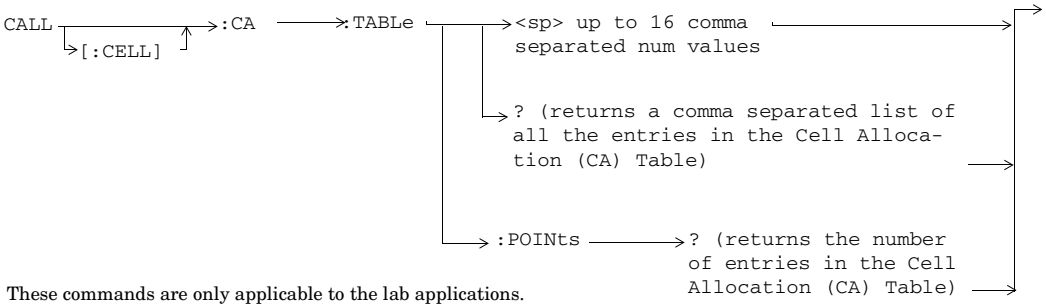
CALL:BCHannel



CALL:BURSt

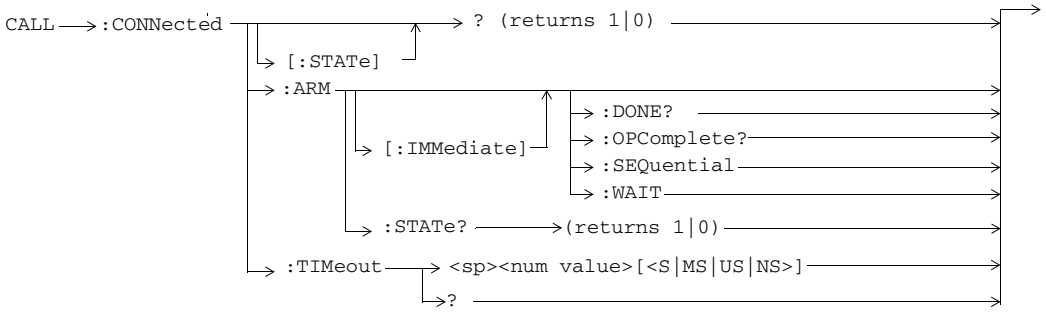


CALL:CA



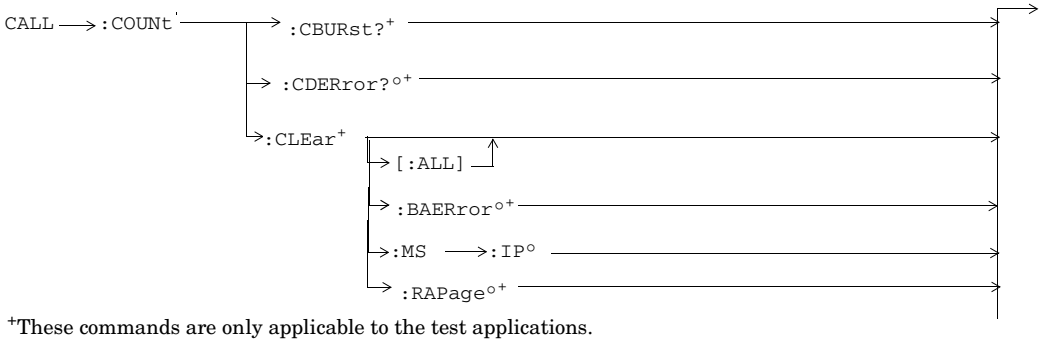
These commands are only applicable to the lab applications.

CALL:CONNected

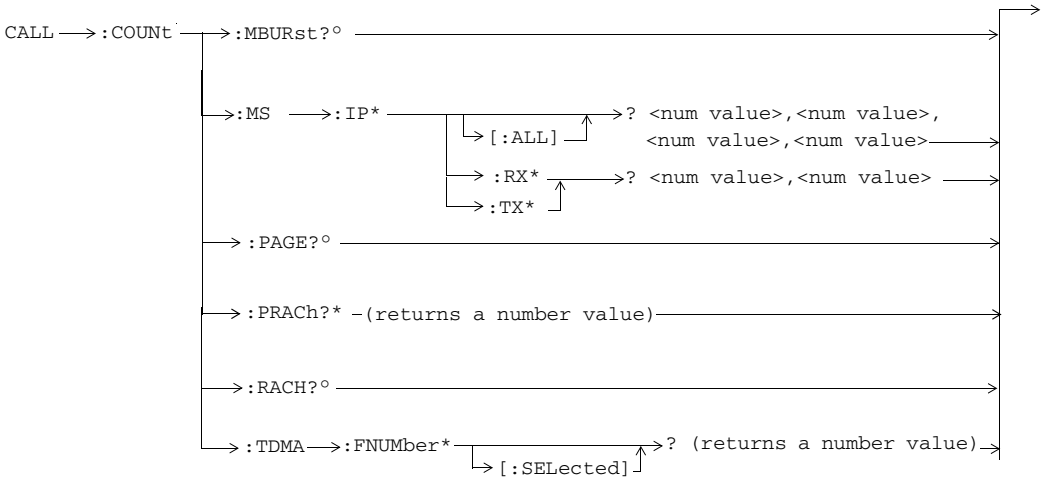


These commands are not applicable to GPRS.

CALL:COUNt



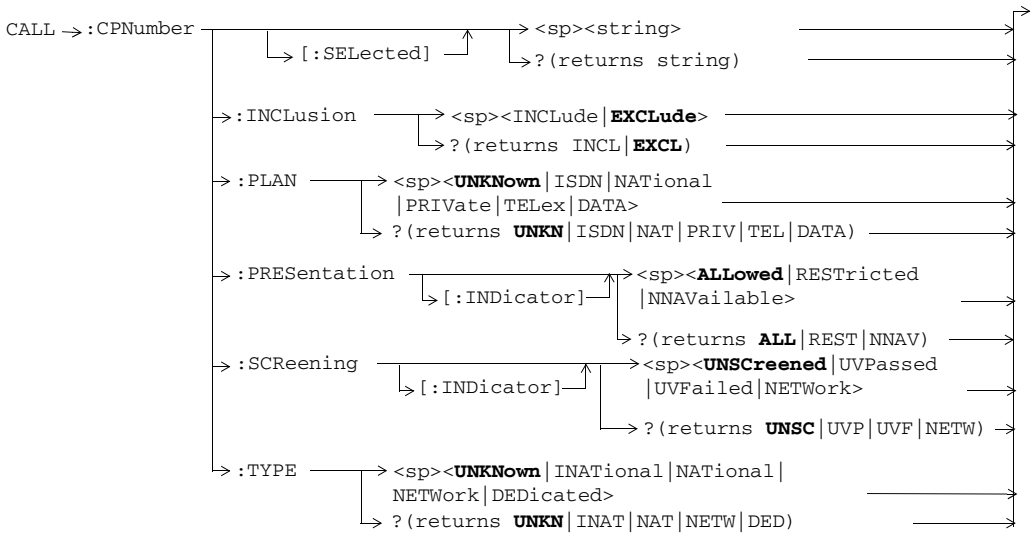
+These commands are only applicable to the test applications.
°These commands are only applicable to the lab applications.



*These commands are only applicable to the GPRS lab application.

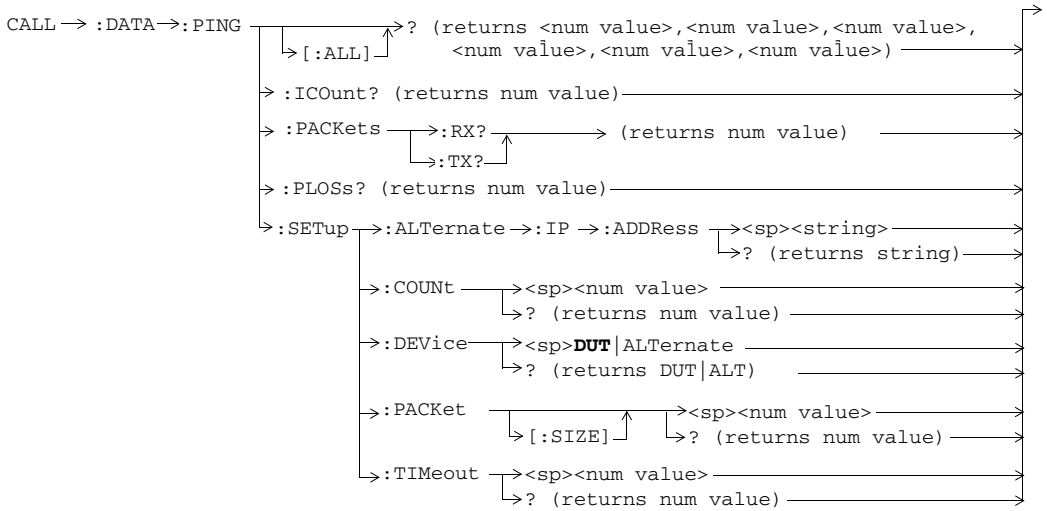
°These commands are only applicable to the GPRS lab application.

CALL:CPNumber

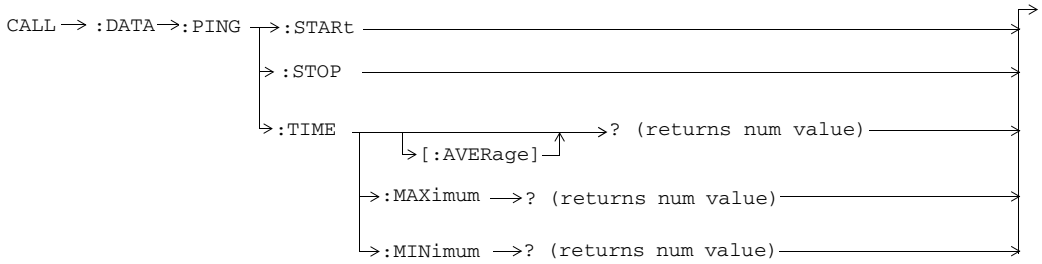


These commands are only applicable to the lab application.

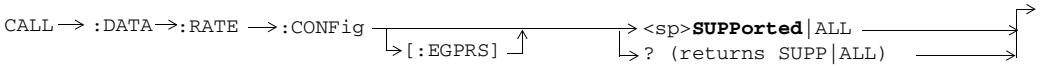
CALL:DATA



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

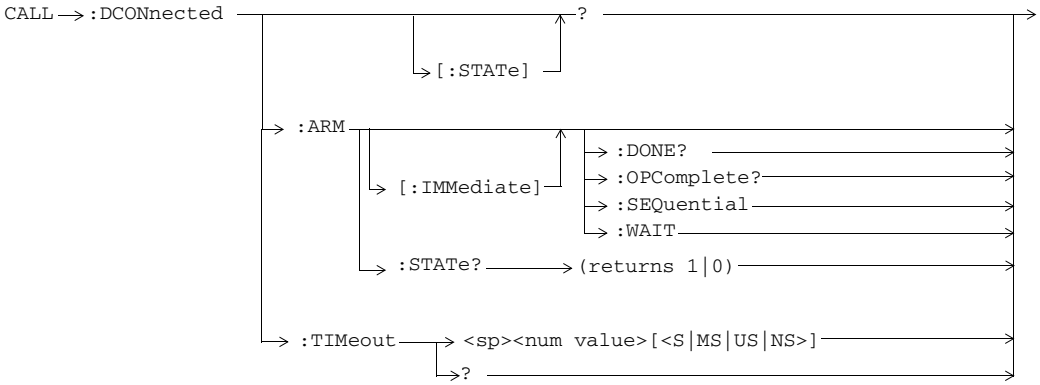


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



This command is only applicable to EGPRS.

CALL:DCONnected

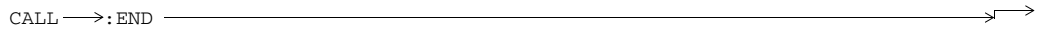


These commands are not applicable to the GSM TA.

CALL:DEModulation

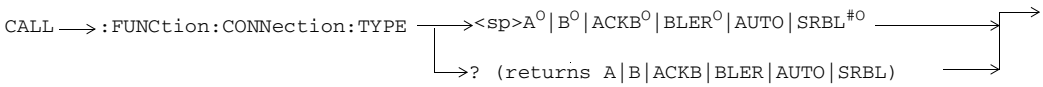
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:END

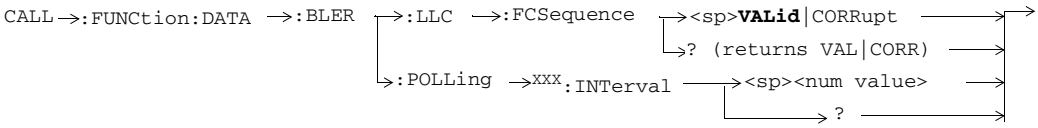


This command is not applicable to the GPRS TA.

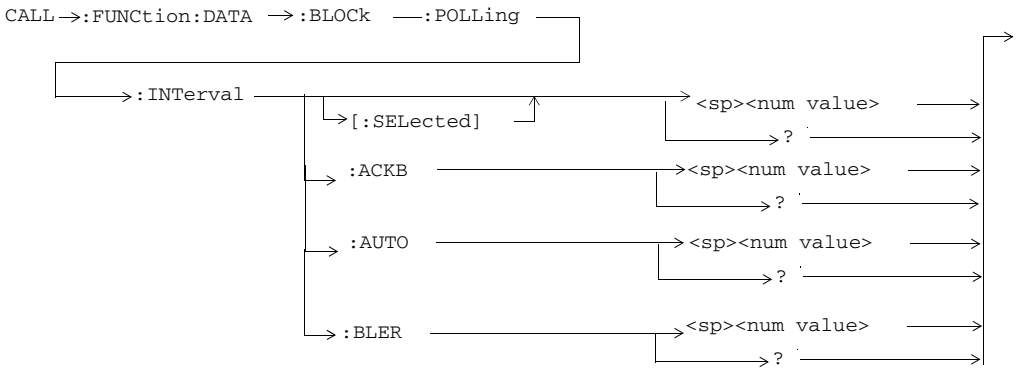
CALL:FUNCtion



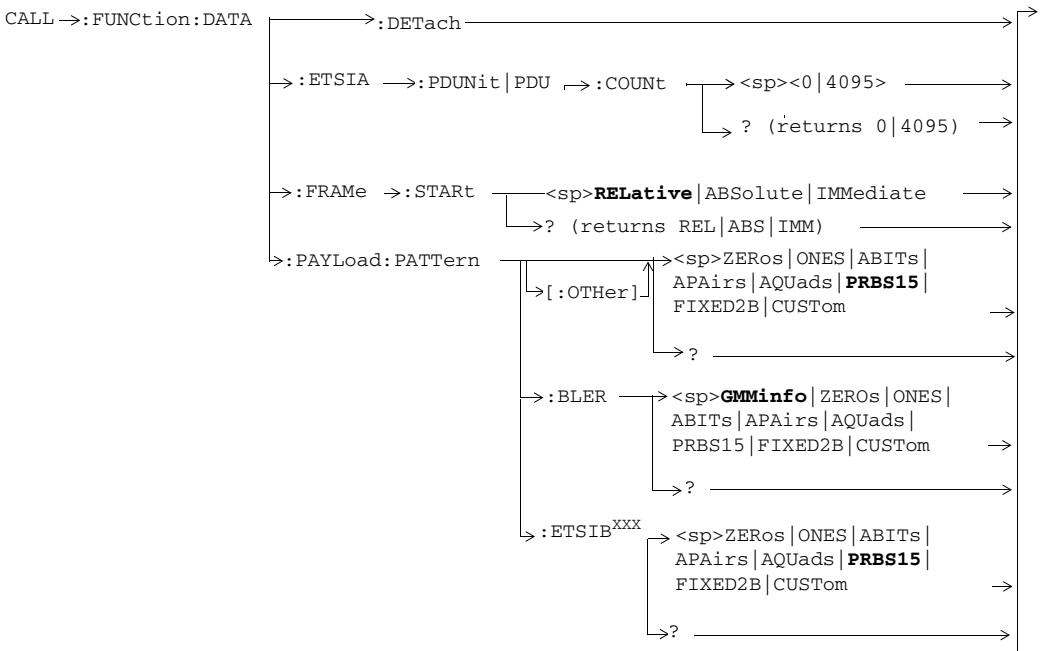
o Not applicable to GSM TA.
Only applicable to EGPRS.



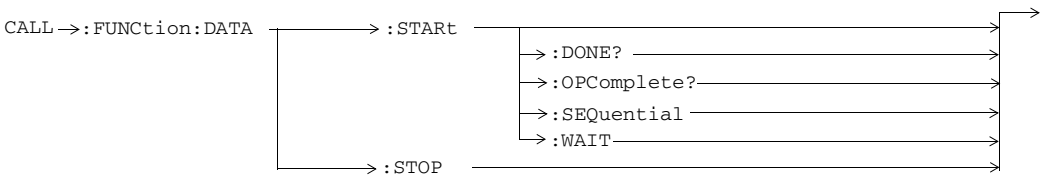
These commands are not applicable to GSM.
XXX This command is obsolete.



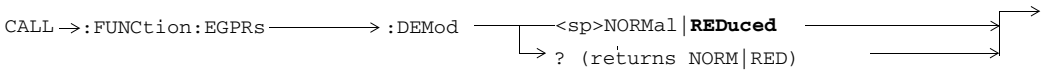
These commands are not applicable to GSM.



These commands are not applicable to GSM.

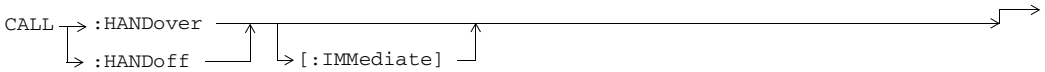


These commands are not applicable to GSM.

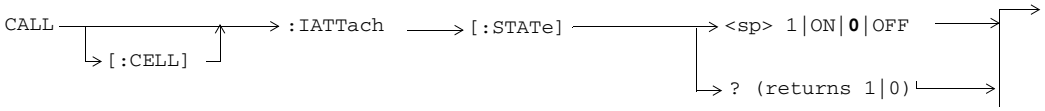


This command is only applicable to the EGPRS TA.

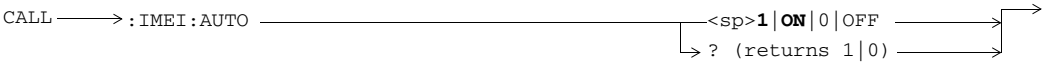
CALL:HANDover|HANDoff



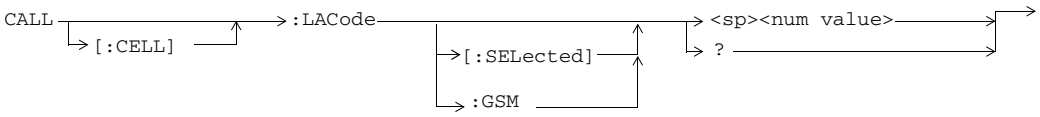
CALL:IATTach



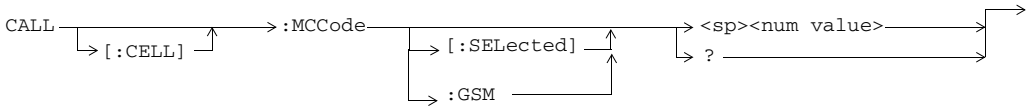
CALL:IMEI



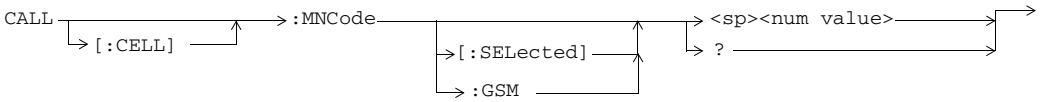
CALL:LACode



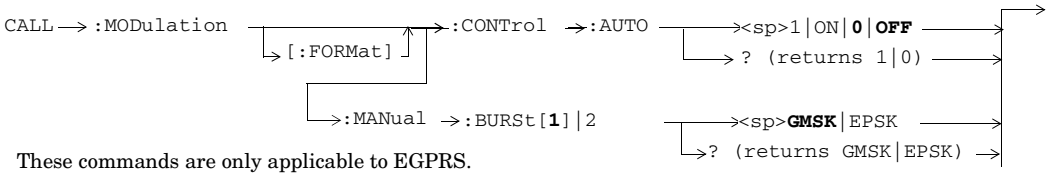
CALL:MCCode



CALL:MNCode

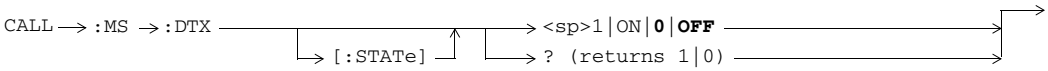


CALL:MODulation

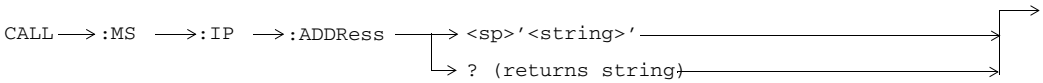


These commands are only applicable to EGPRS.

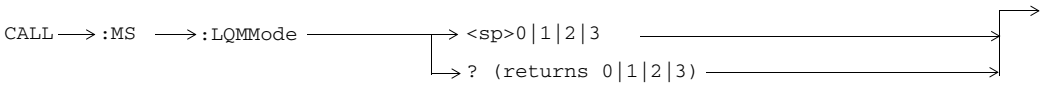
CALL:MS



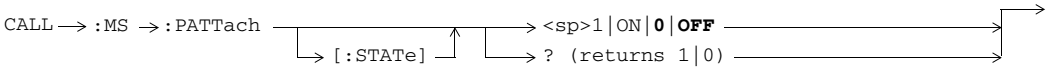
This command is only applicable to GSM.



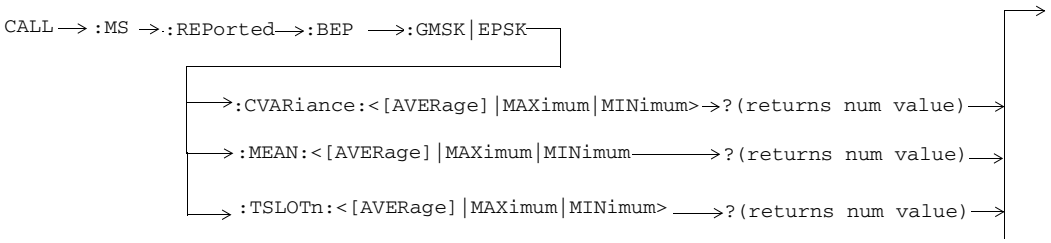
This command is applicable only to the GSM/GPRS and EGPRS lab applications.



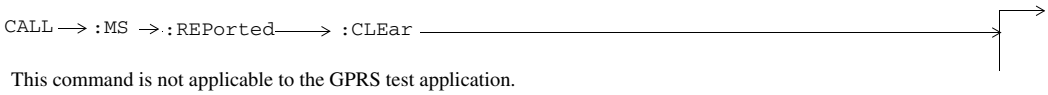
This command is applicable only to the EGPRS lab application.



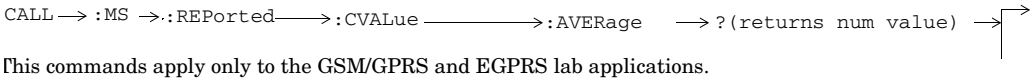
This command is *not* applicable to GSM.



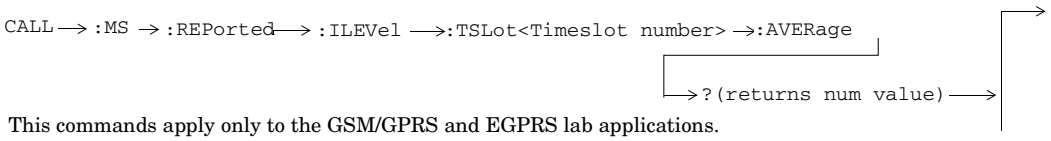
This command is not applicable to the GPRS test application.



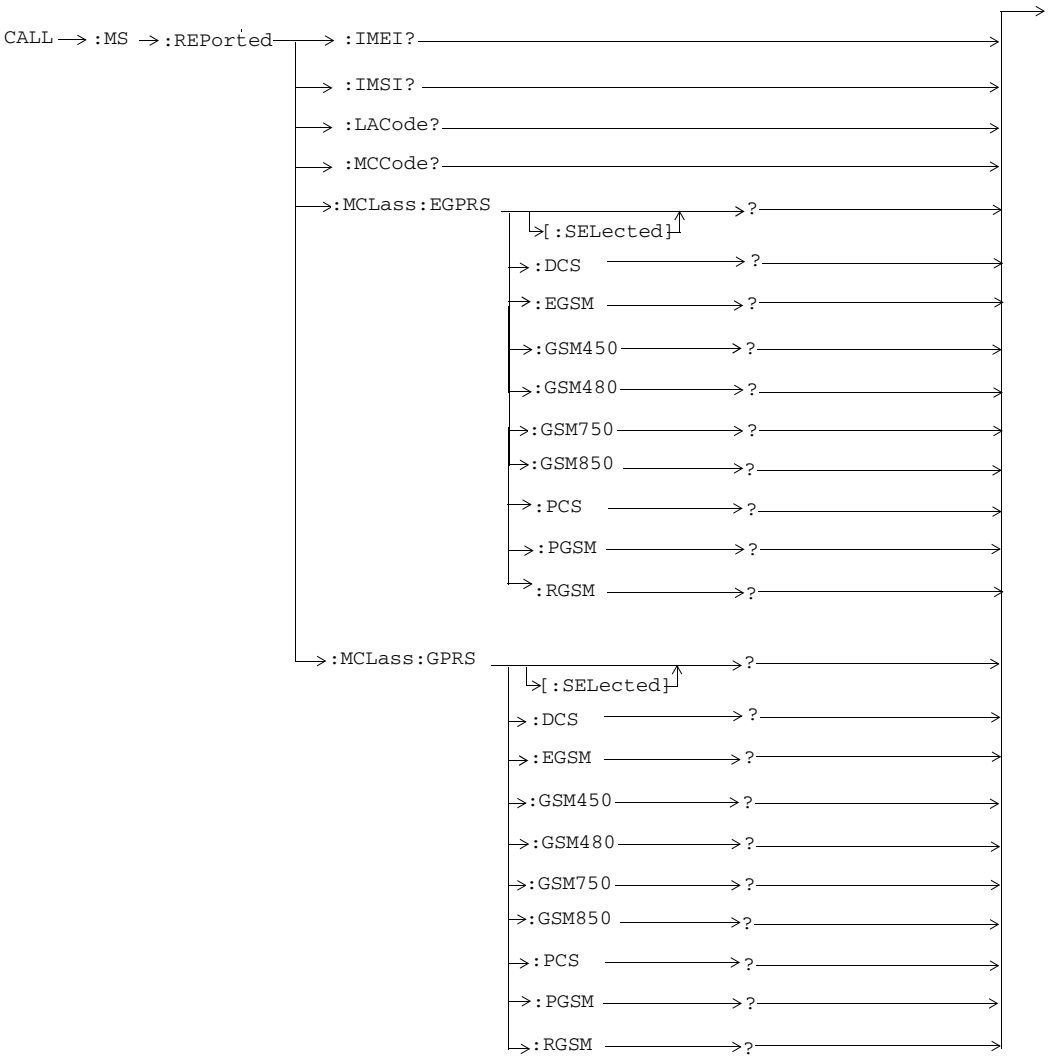
This command is not applicable to the GPRS test application.

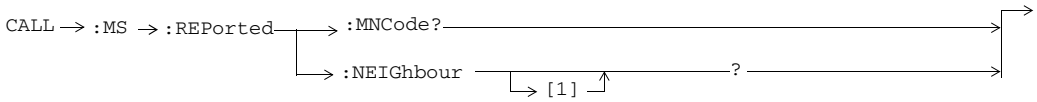


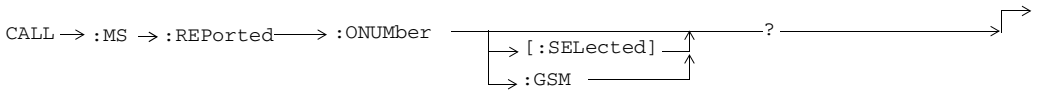
This commands apply only to the GSM/GPRS and EGPRS lab applications.



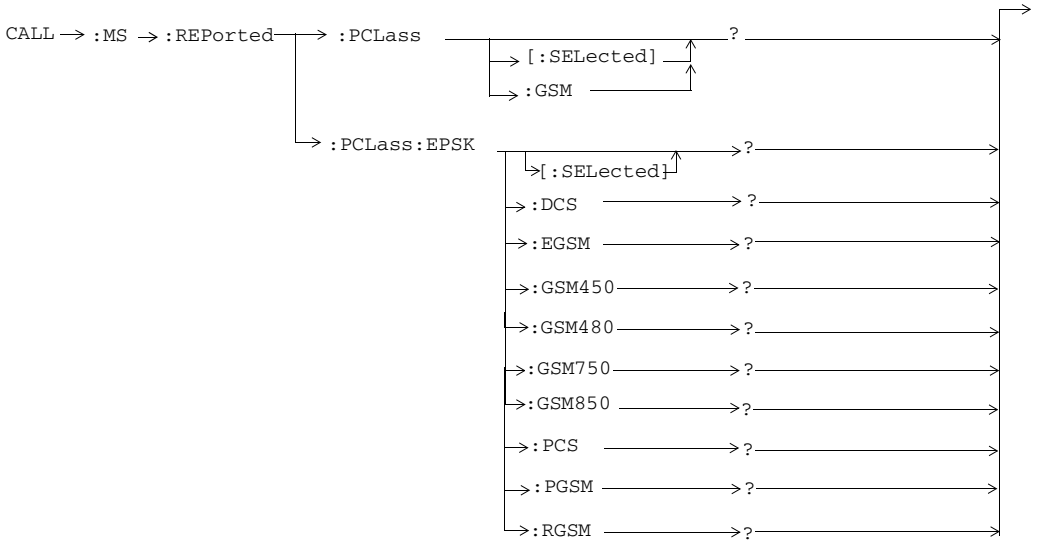
This commands apply only to the GSM/GPRS and EGPRS lab applications.

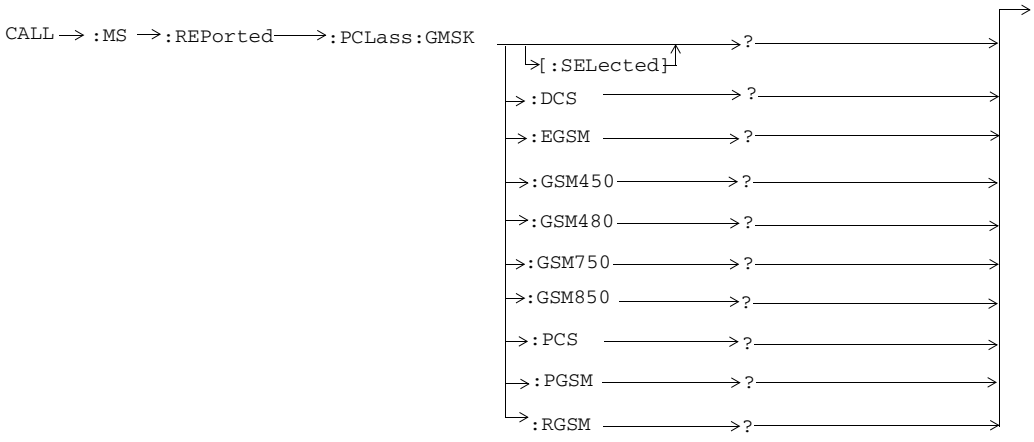

CALL
:MS
:REPorted
:IMEI?
:IMSI?
:LACode?
:MCCode?
:MCLass:EGPRS
?
[:SELected]
:DCS
:EGSM
:GSM450
:GSM480
:GSM750
:GSM850
:PCS
:PGSM
:RGSM
:MCLass:GPRS

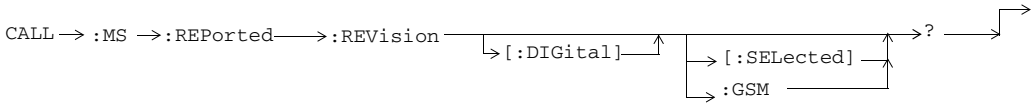


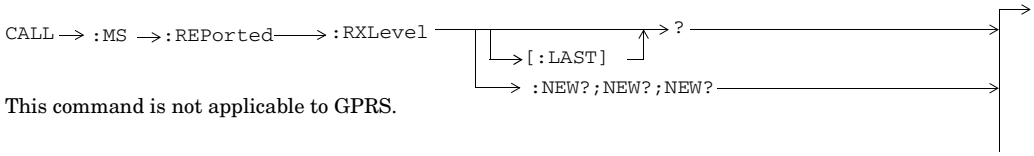


This command is not applicable to GPRS.

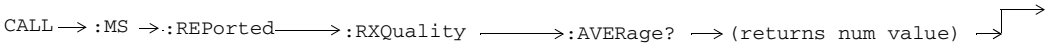




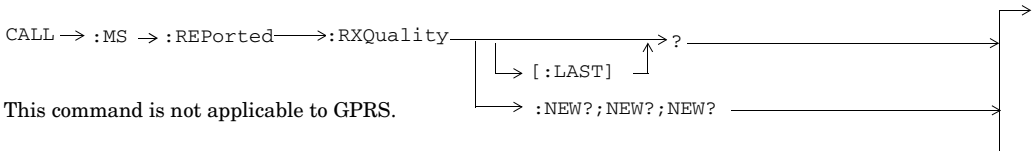




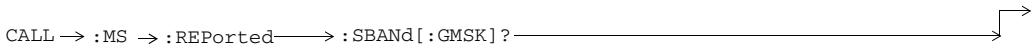
This command is not applicable to GPRS.

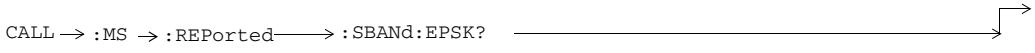


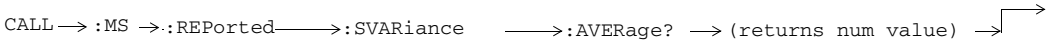
This command applies only to the GSM/GPRS and EGPRS lab applications



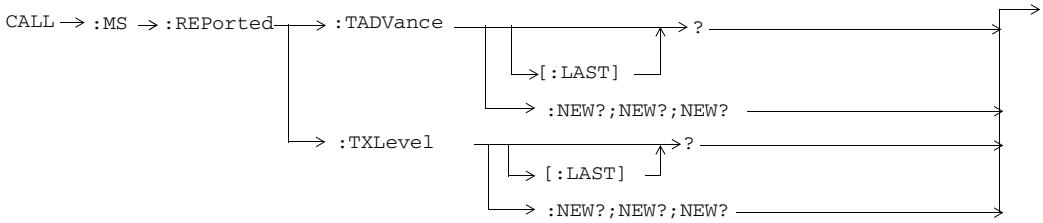
This command is not applicable to GPRS.



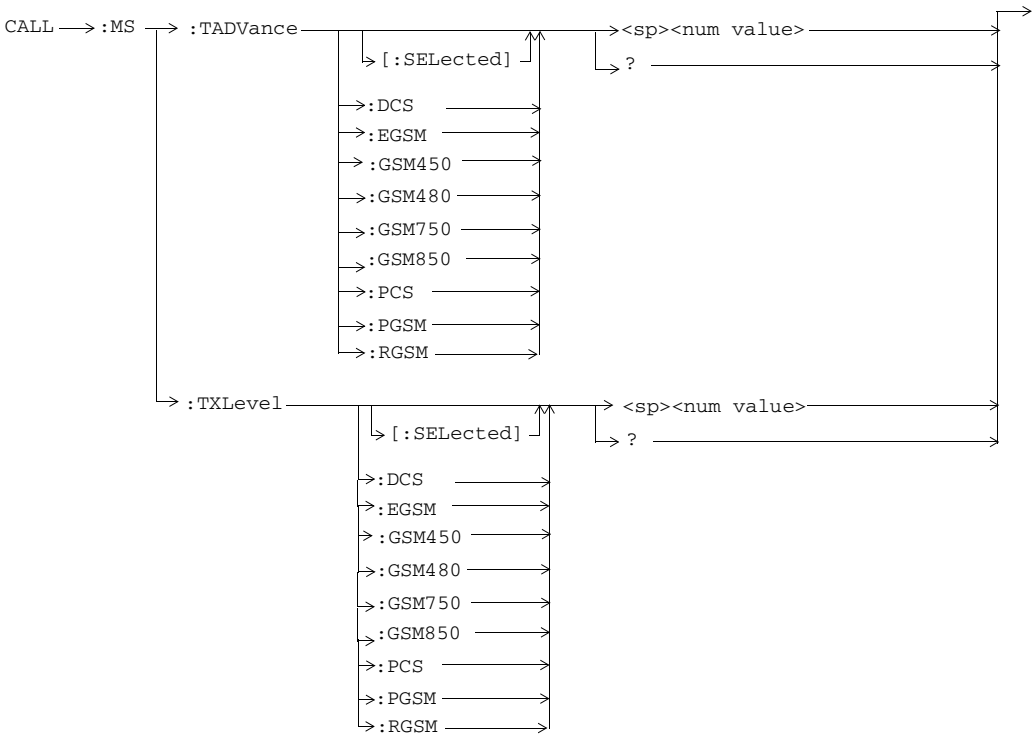




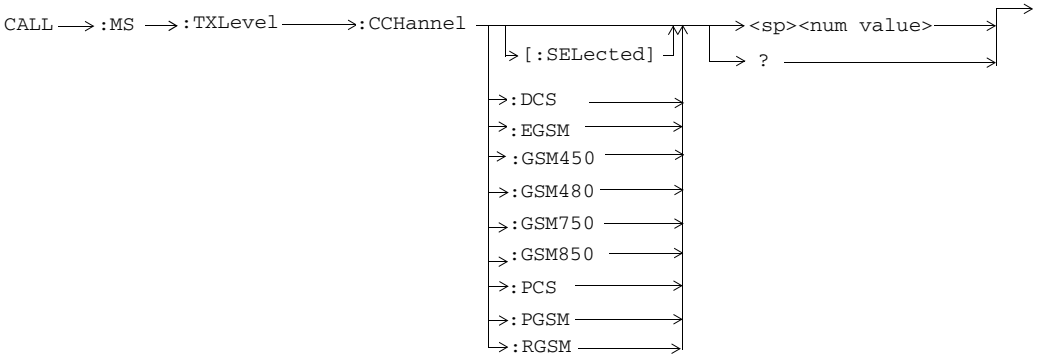
This command applies only to the GSM/GPRS and EGPRS lab applications

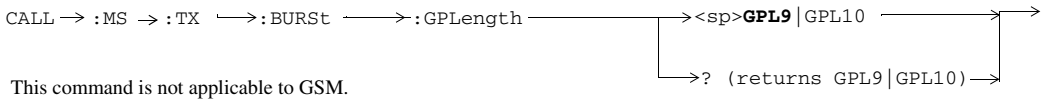


These commands are not applicable to GPRS.

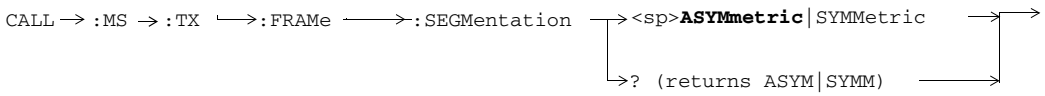


These commands are not applicable to GPRS.

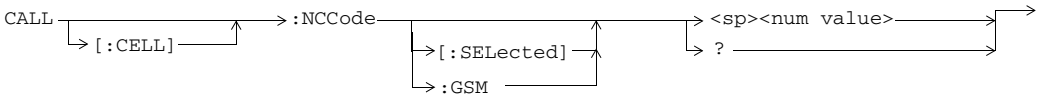




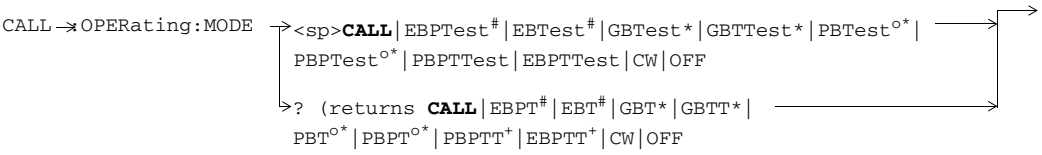
This command is not applicable to GSM.



CALL:NCCode



CALL:OPERating



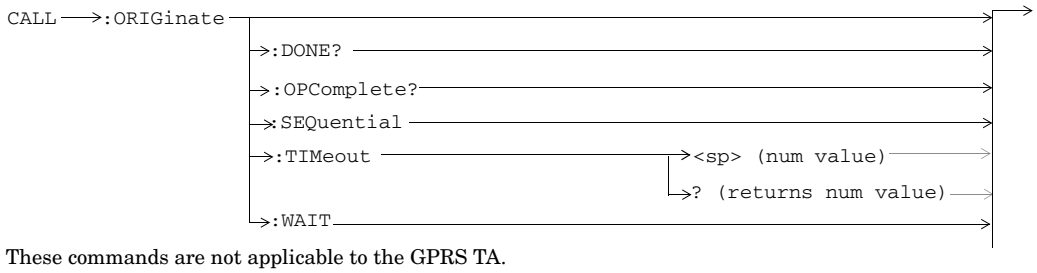
Only applicable to EGPRS

o Not applicable to GSM TA

* Not applicable to EGPRS TA

+ Only applicable to the Lab Applications.

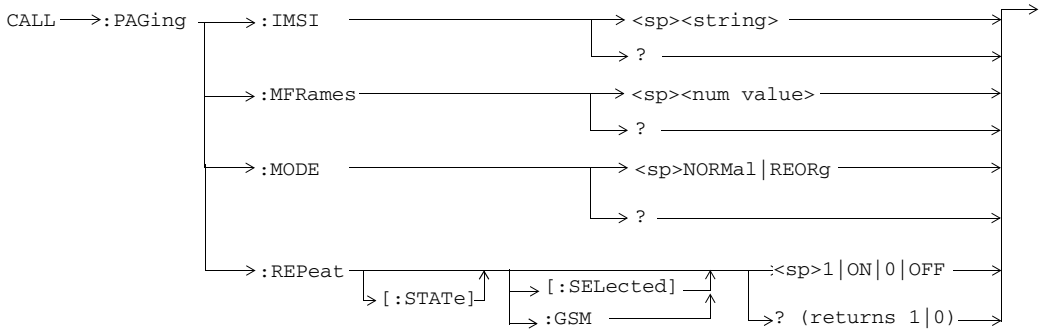
CALL:ORIGinate



These commands are not applicable to the GPRS TA.

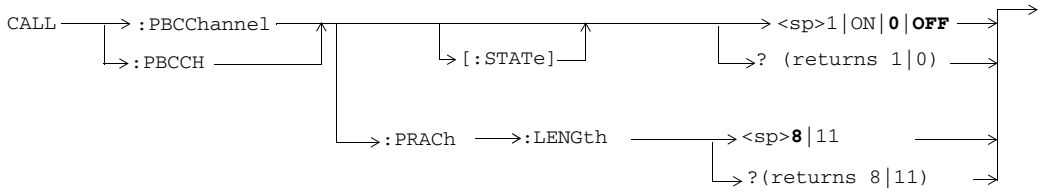
CALL:PACCH|PACChannel

CALL:PAGing



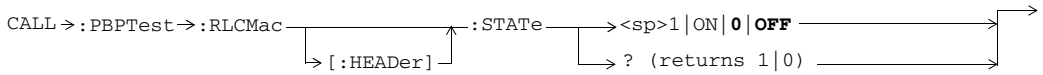
These commands are not applicable to the GPRS TA.

CALL:PBCChannel



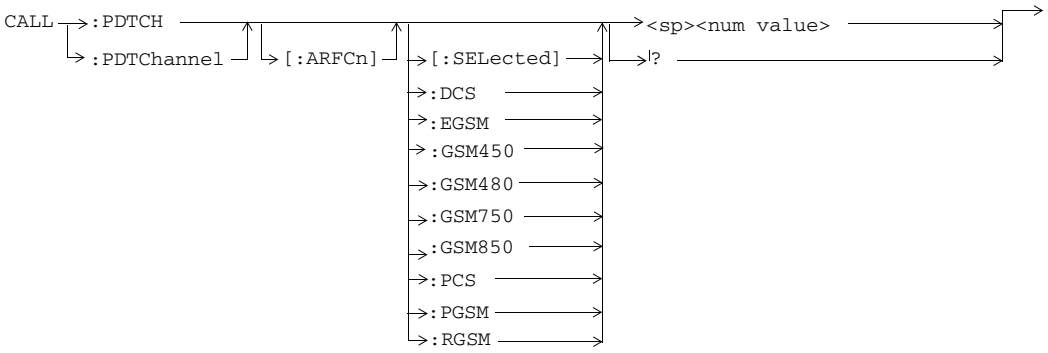
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PBPTest

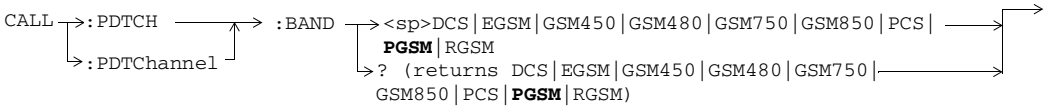


This command is not applicable to GSM.

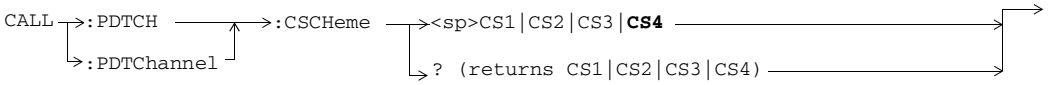
CALL:PDTCH|PDTChannel



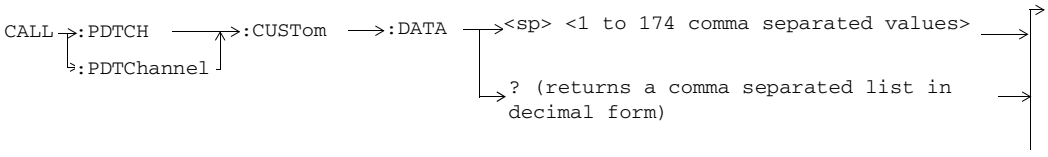
These commands are not applicable to GSM.

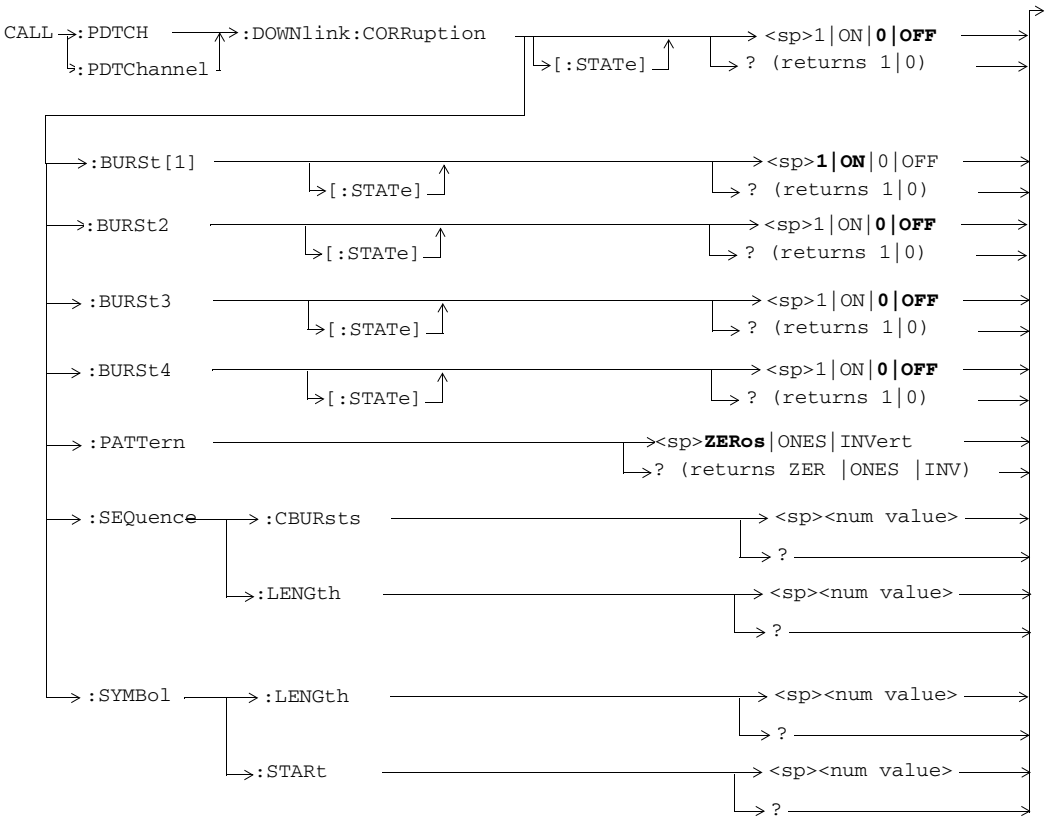


This command is not applicable to GSM.

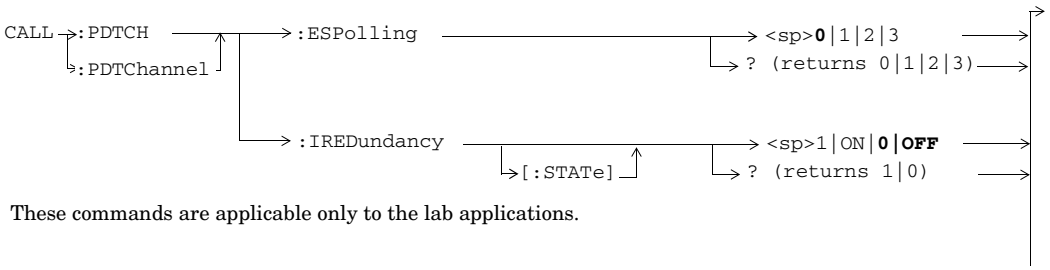


This command is not applicable to GSM or EGPRS.

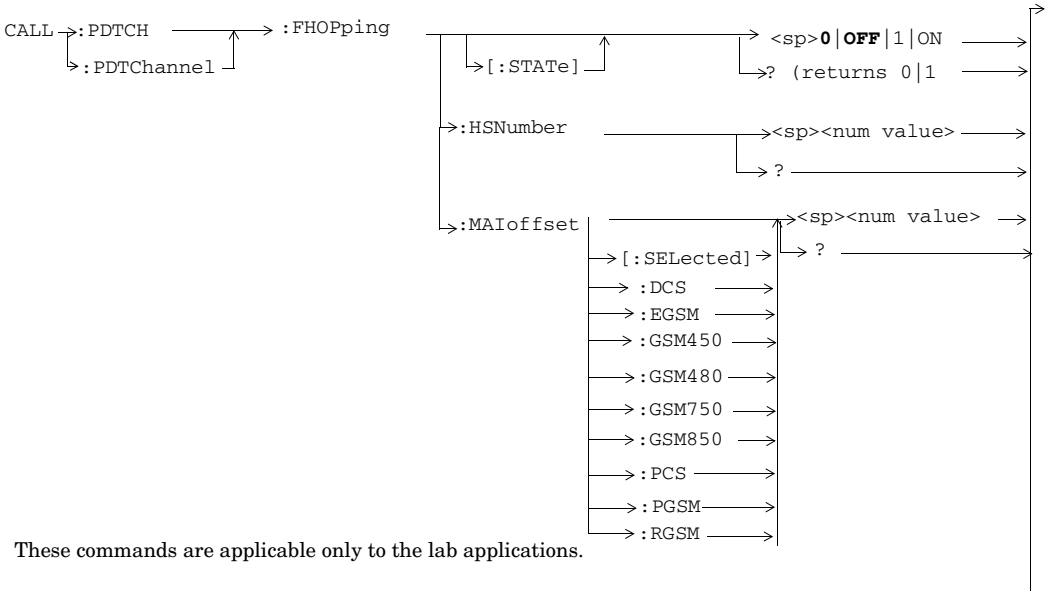




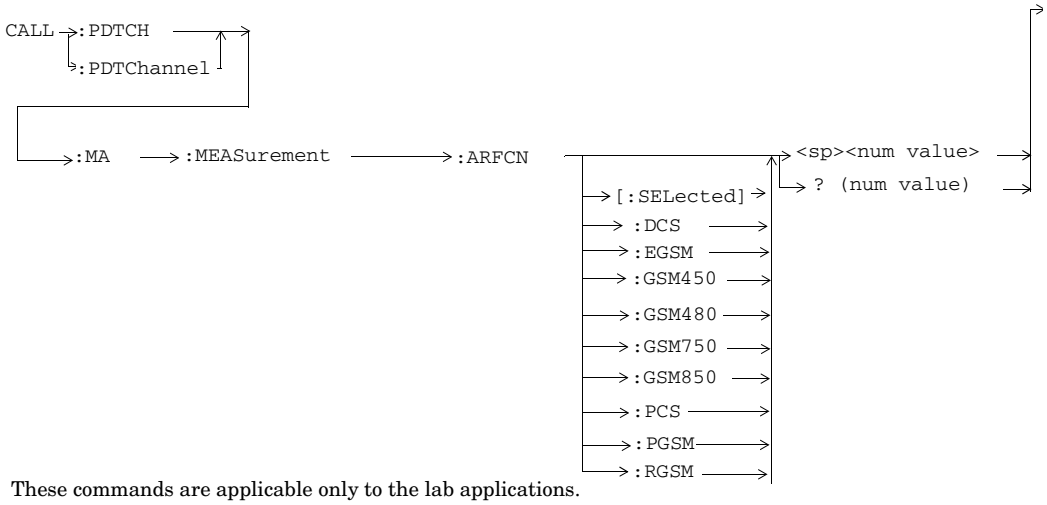
These commands are applicable only to the EGPRS lab application.



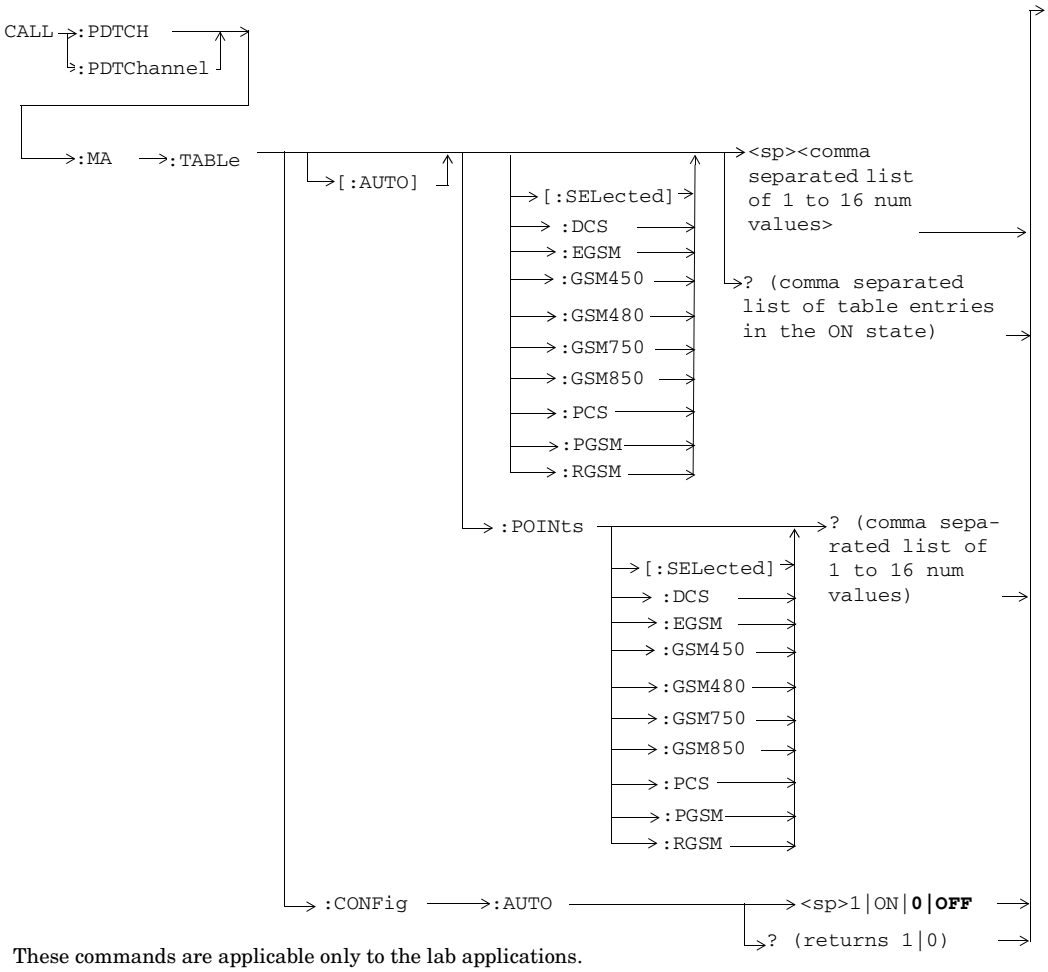
These commands are applicable only to the lab applications.



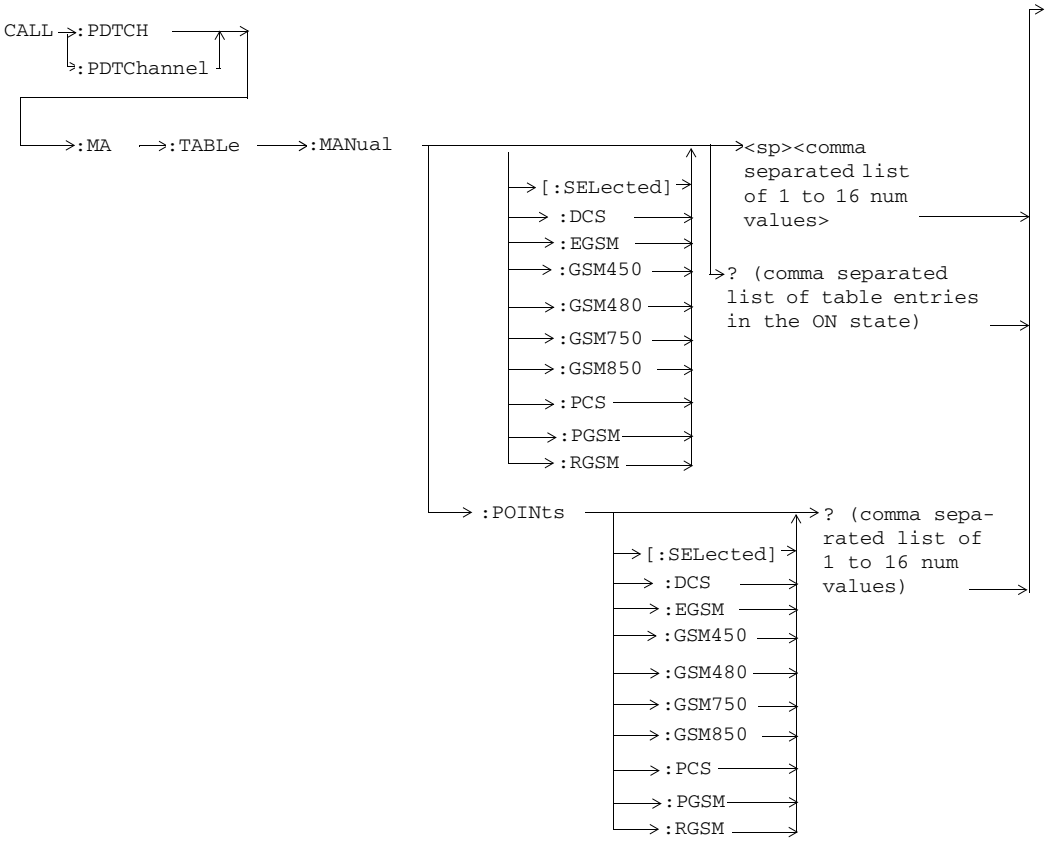
These commands are applicable only to the lab applications.



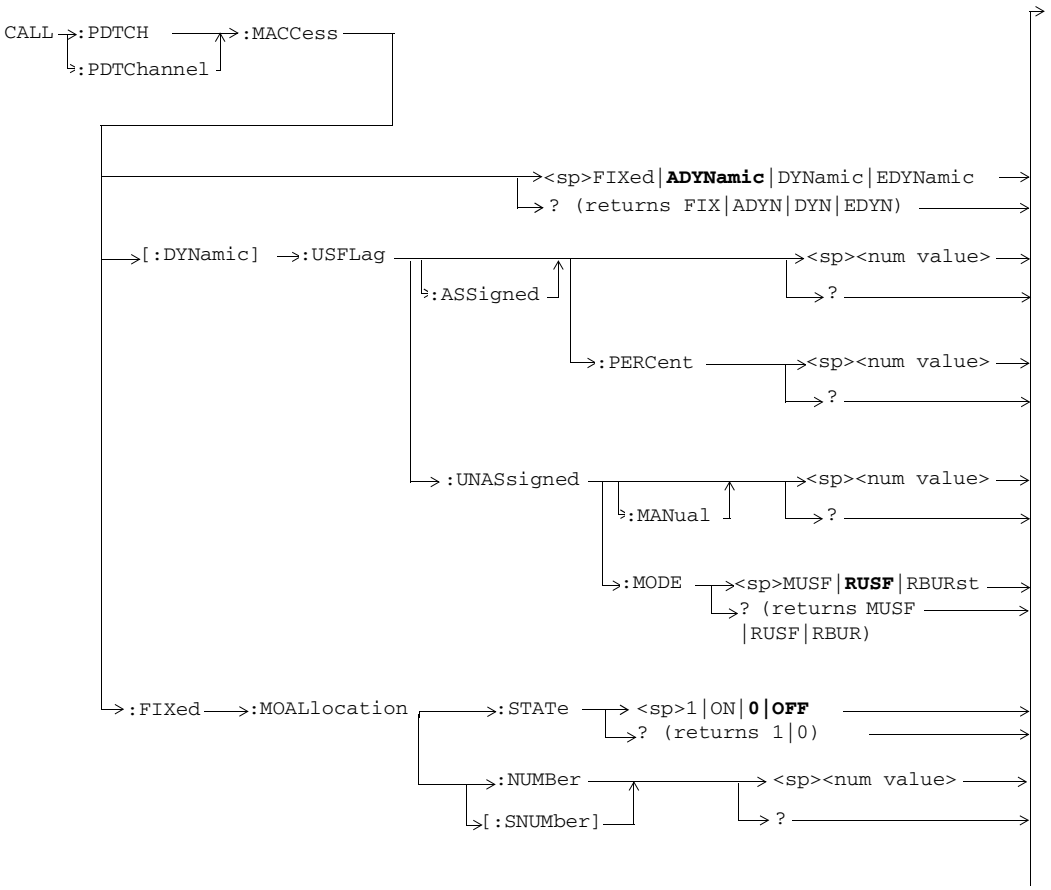
These commands are applicable only to the lab applications.



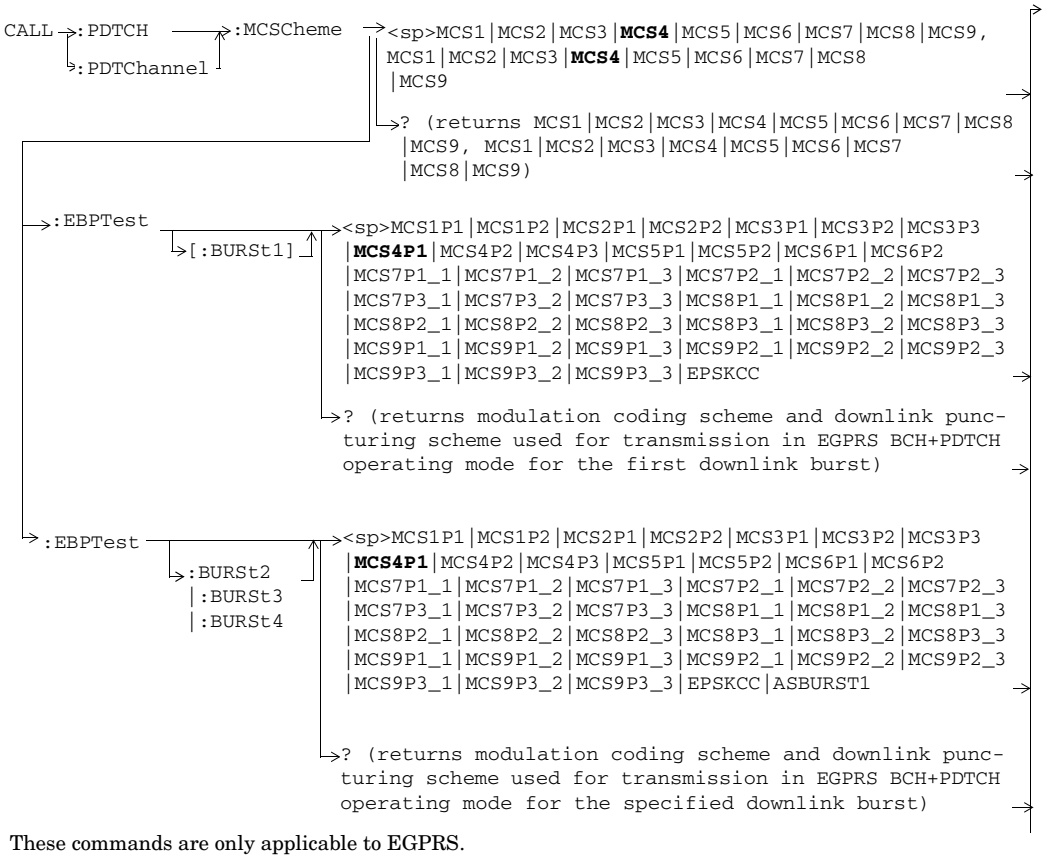
These commands are applicable only to the lab applications.



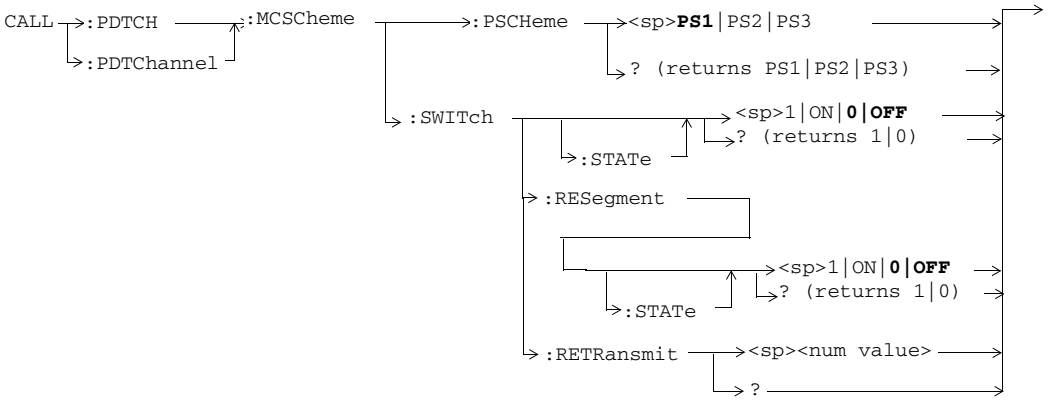
These commands are applicable only to the lab applications.



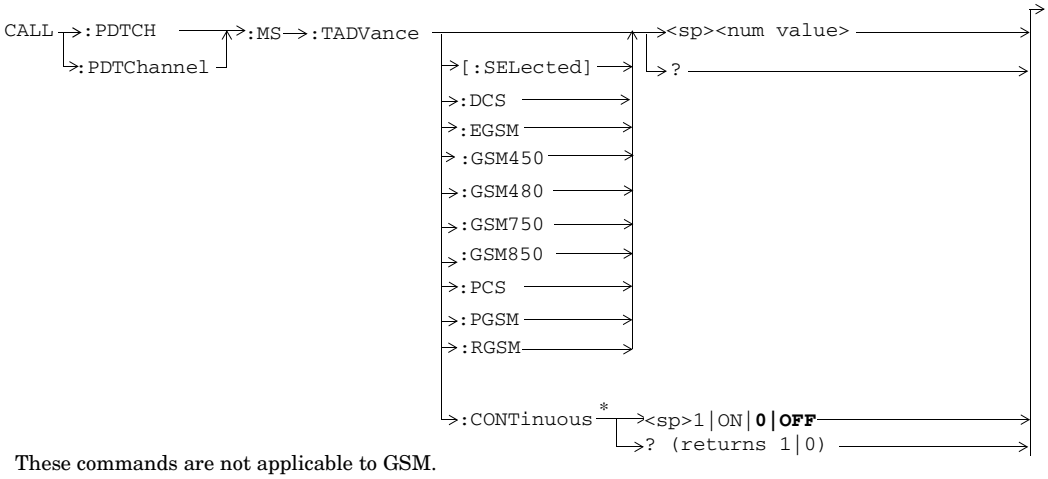
These commands are applicable only to the GSM/GPRS and EGPRS lab applications.



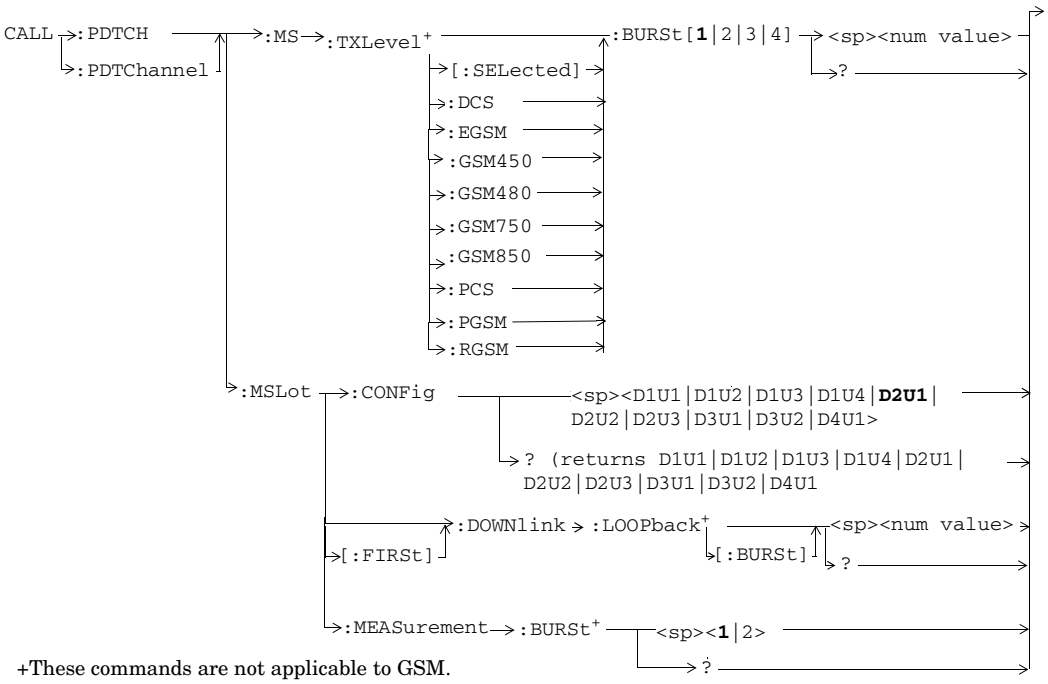
These commands are only applicable to EGPRS.



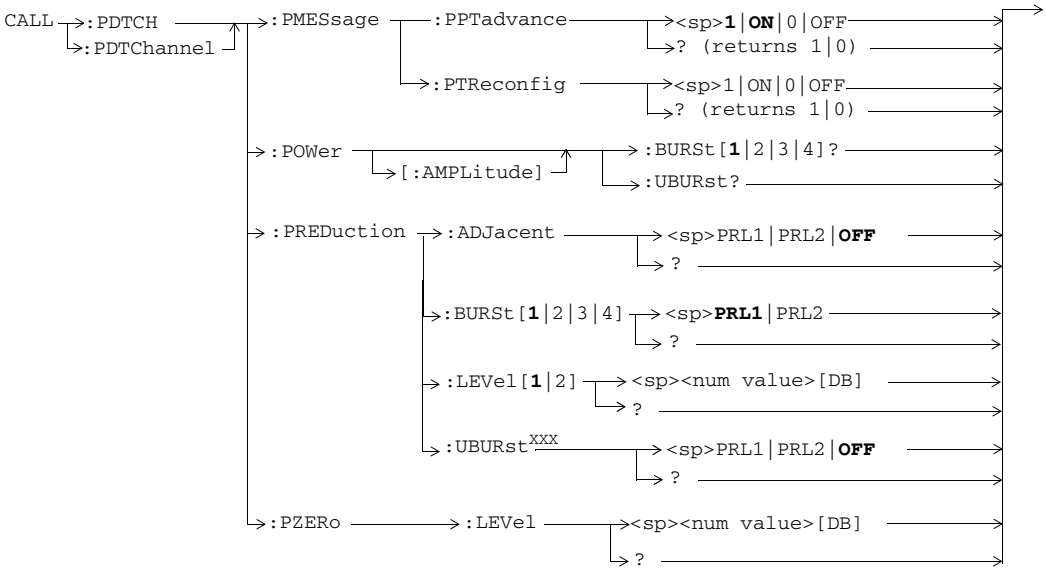
These commands are only applicable to the EGPRS lab application.



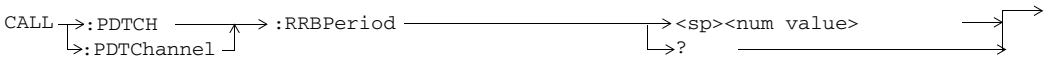
These commands are not applicable to GSM.
*Only applicable to the GSM/GPRS and EGPRS LAs.



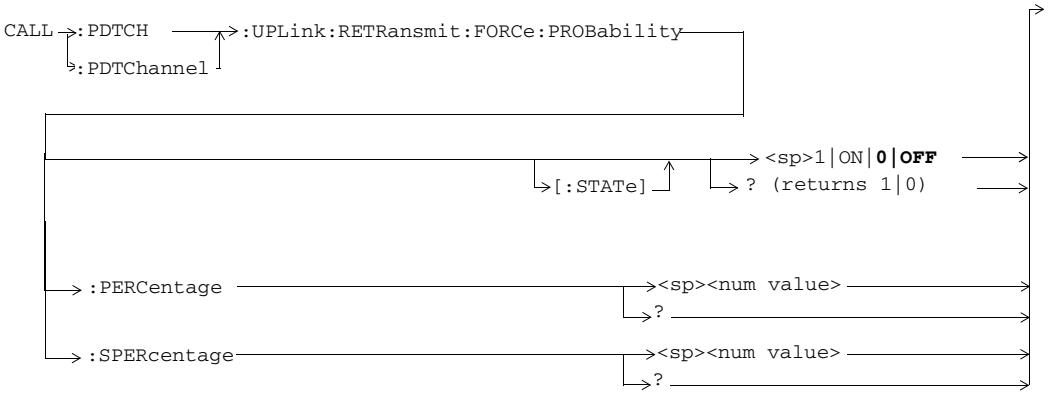
+These commands are not applicable to GSM.



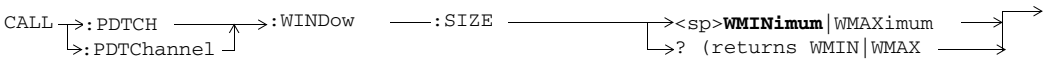
XXX This command is obsolete.
These commands are not applicable to GSM.



This command is only applicable to the lab applications.

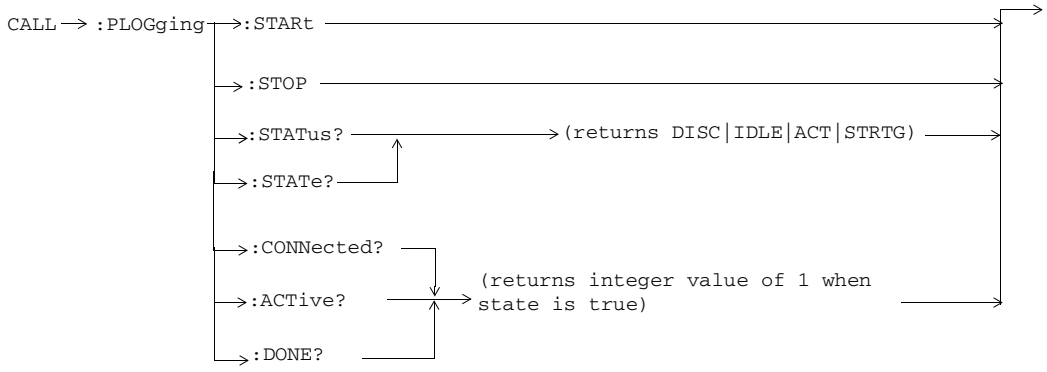


These commands are applicable only to the EGPRS lab application.



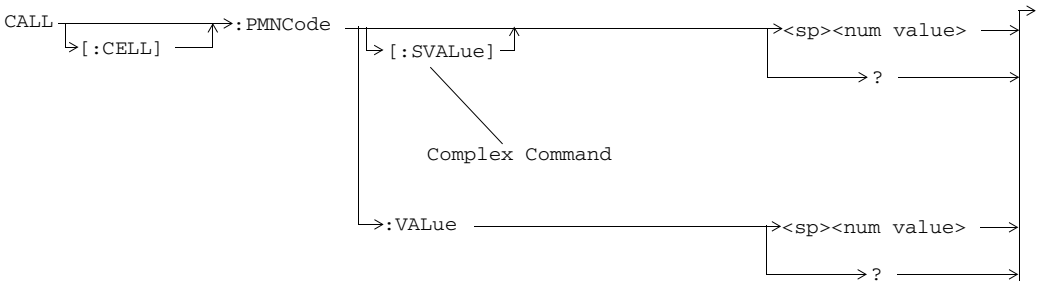
These commands are only applicable to the lab applications.

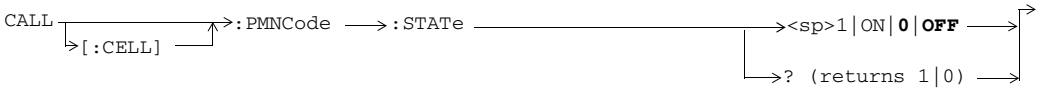
CALL:PLOGging



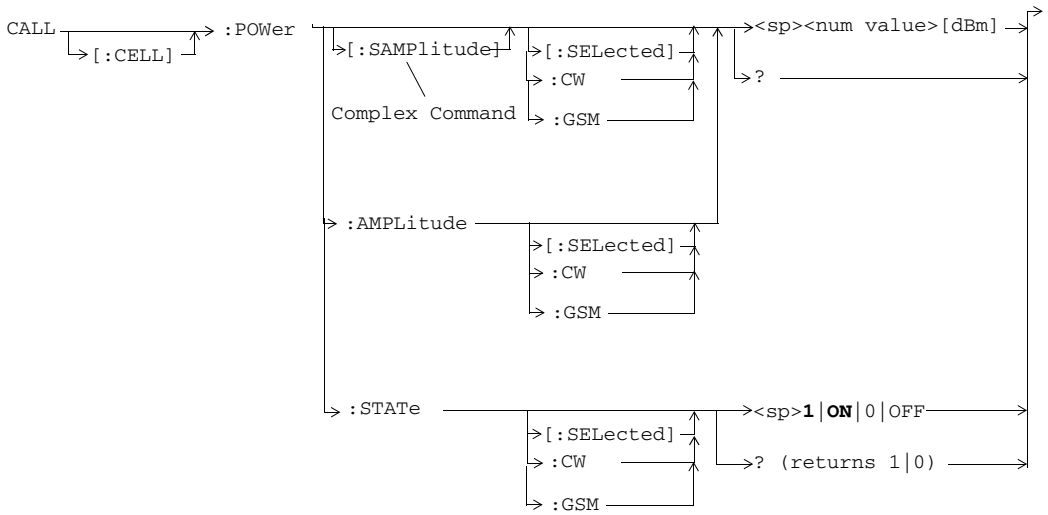
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PMNCode

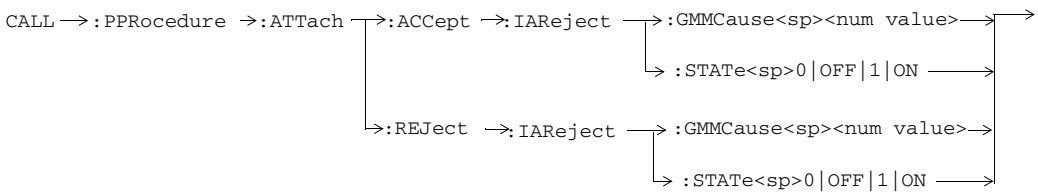




CALL:POWer

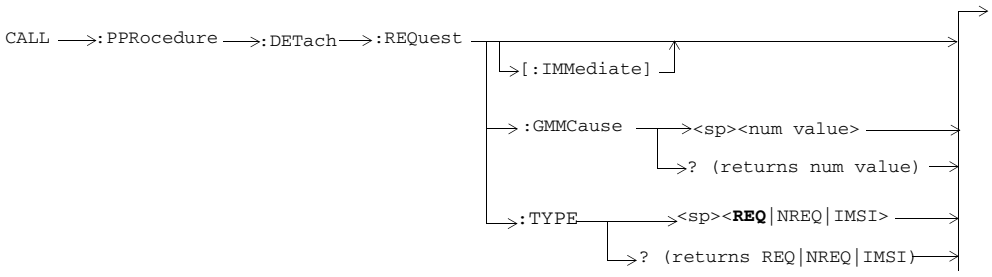


CALL:PPRocedure:ATTach

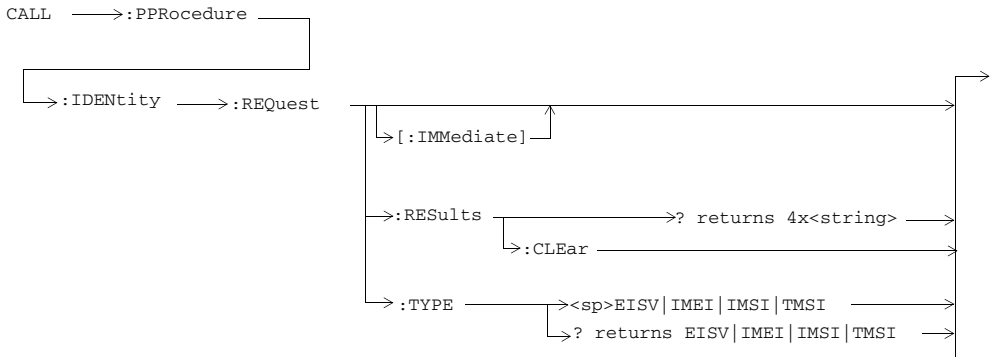


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:DETach

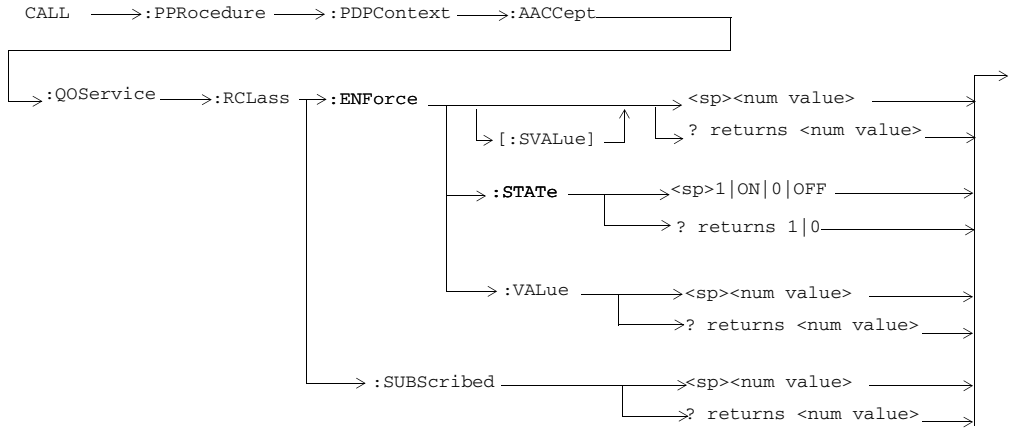


CALL:PPRocedure:IDENtity

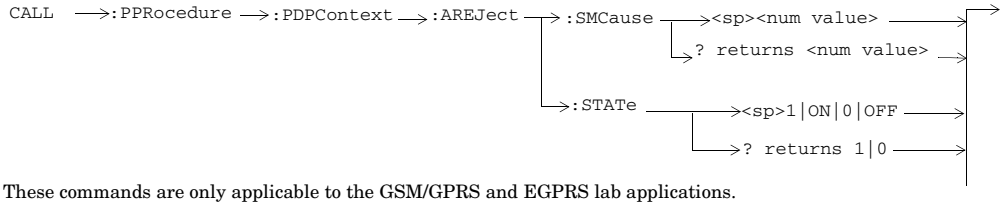


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PDPContext

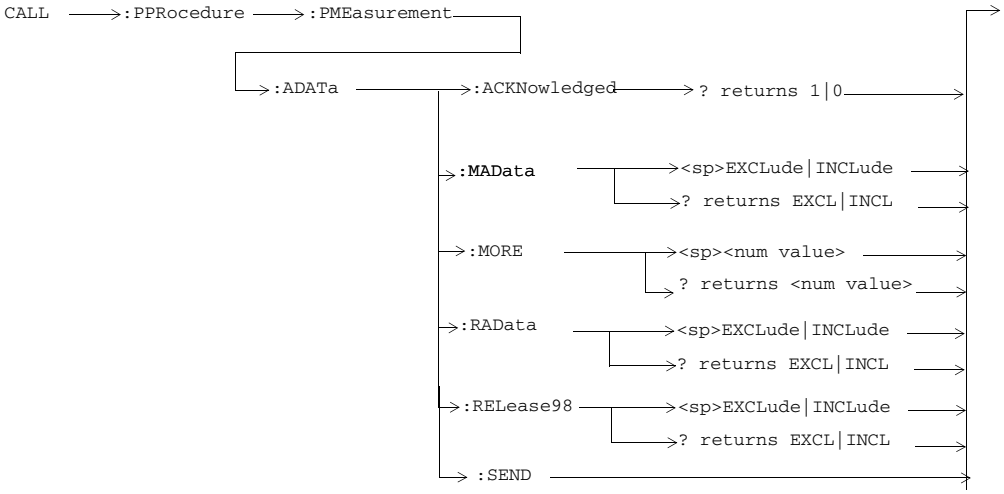


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



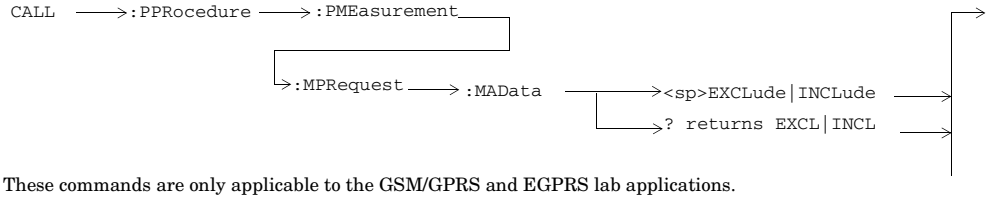
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:ADATa

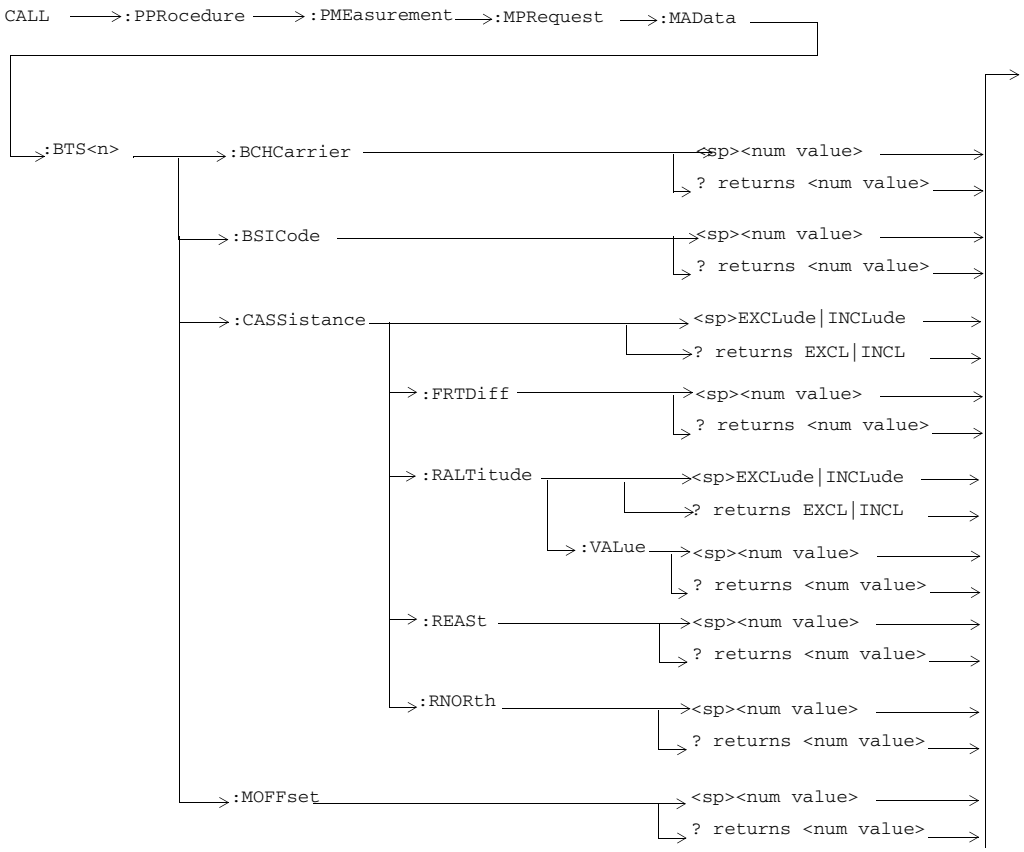


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

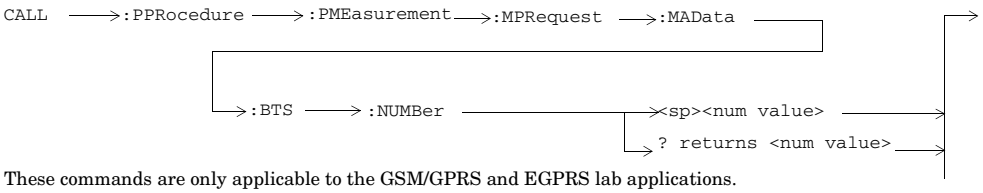
CALL:PPRocedure:PMEasurement:MPRequest



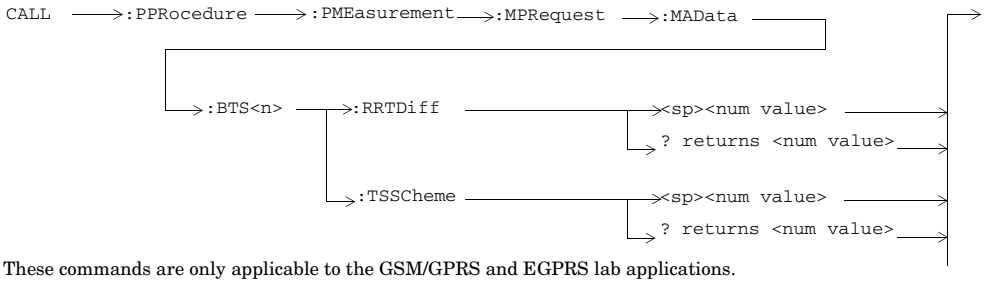
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



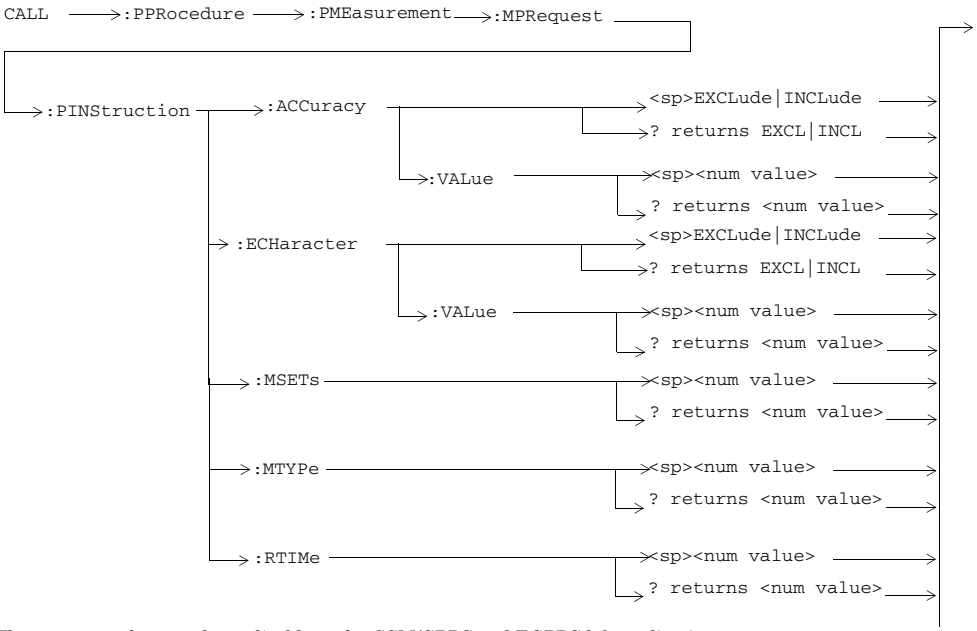
These commands are only applicable to lab applicable.



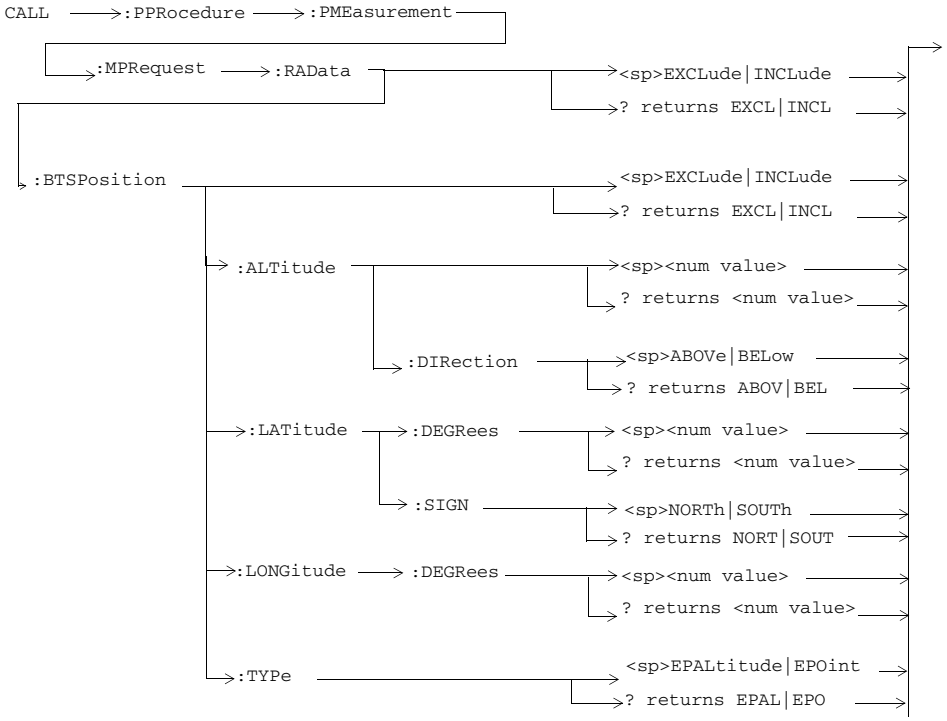
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



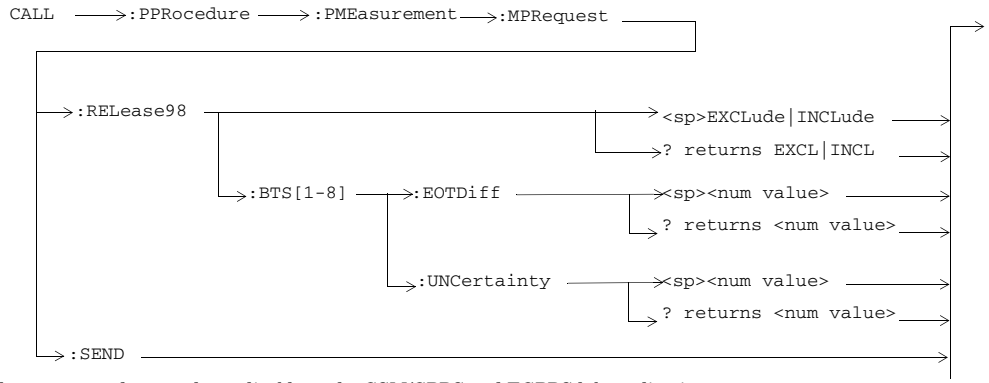
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

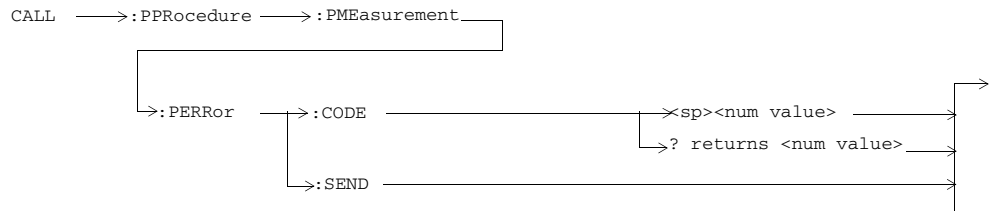


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



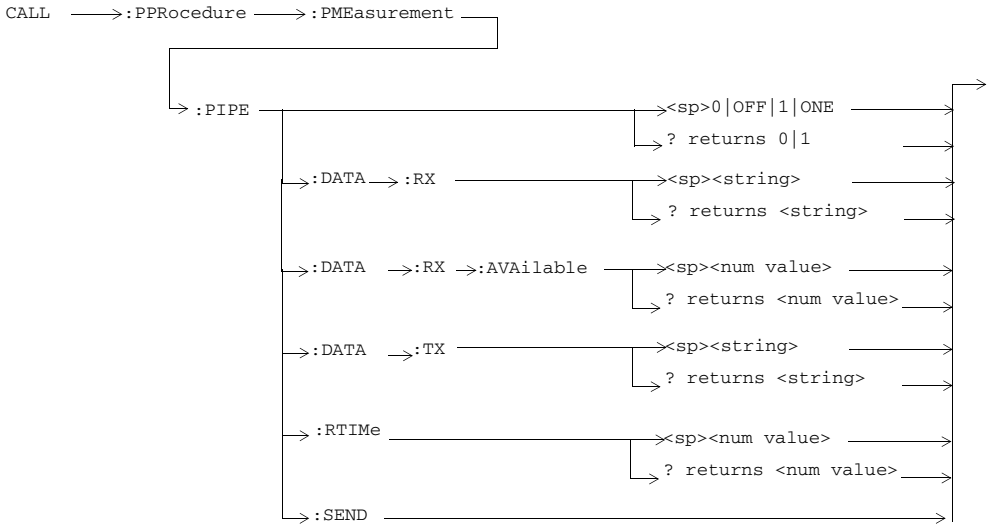
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PERRor



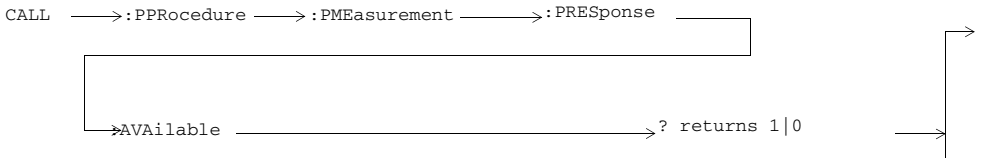
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PIPE



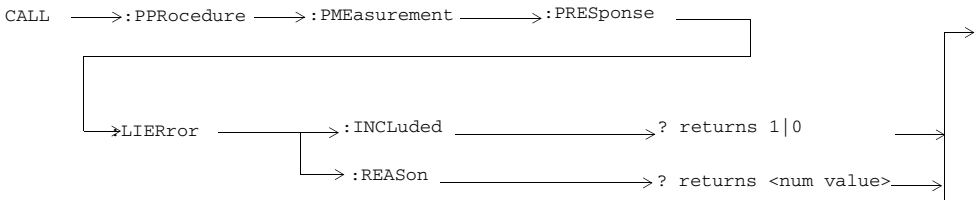
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:AVAilable?



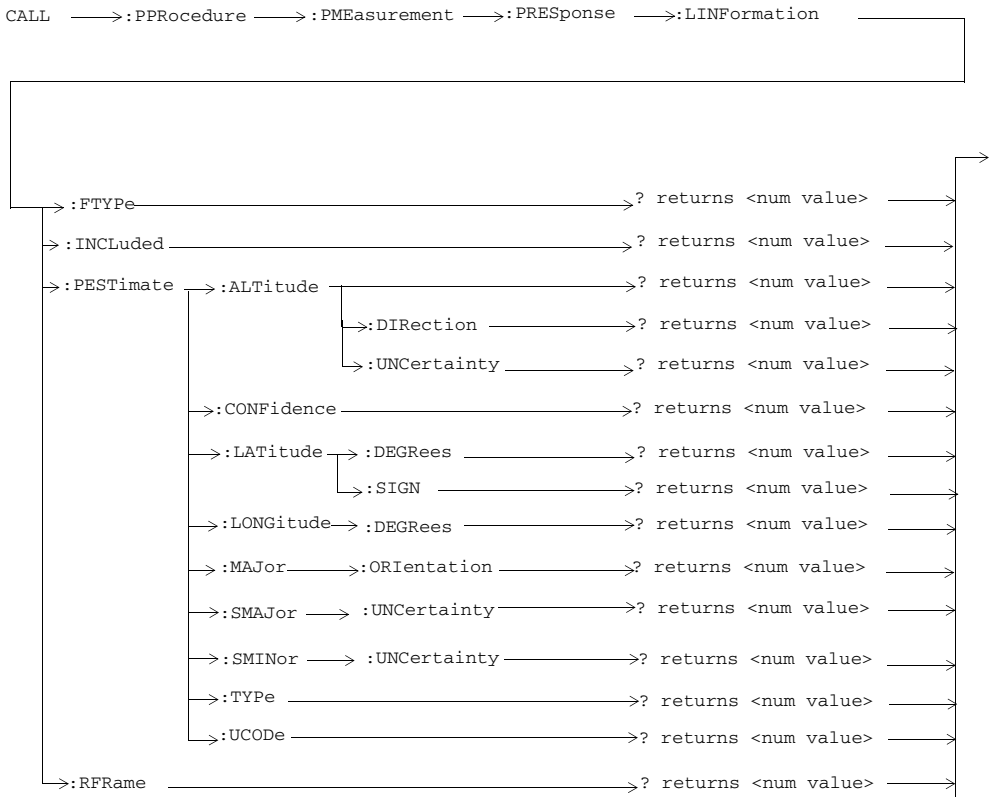
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:LIERror



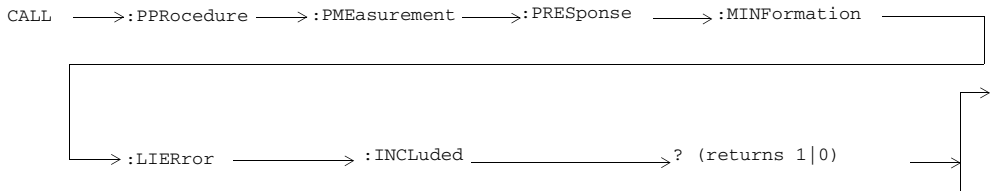
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:LINFormation

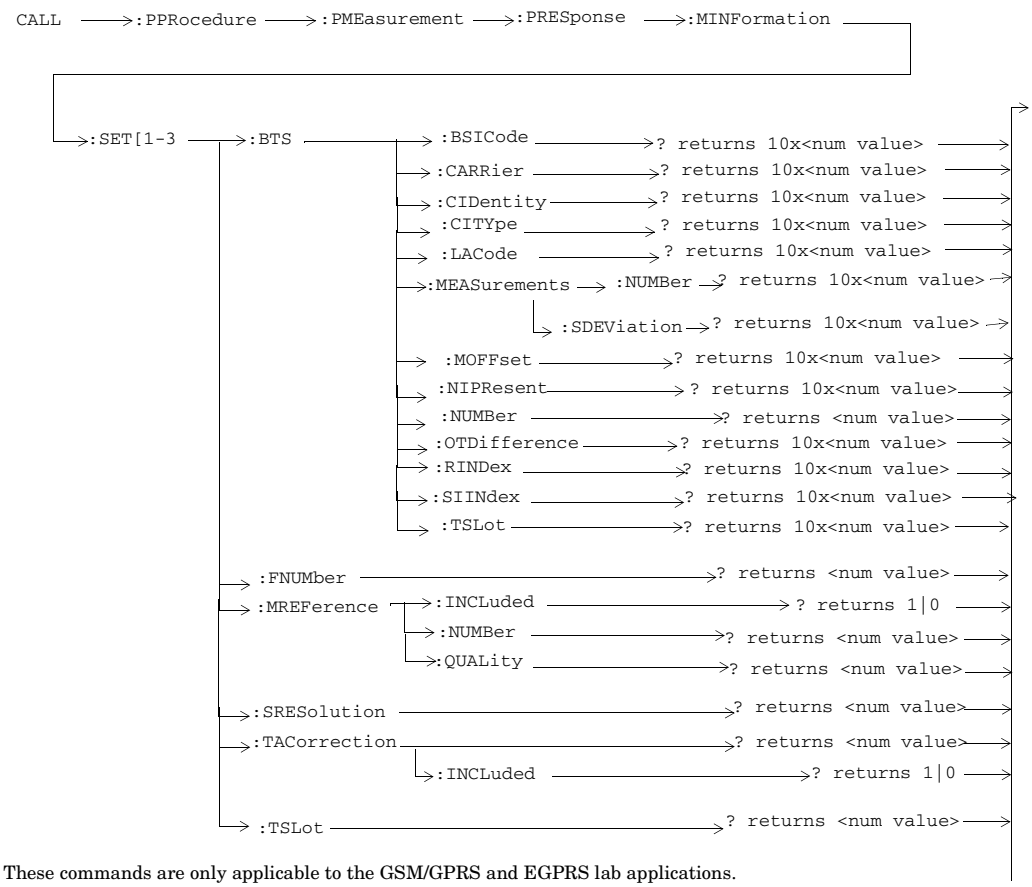


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:MINFormation

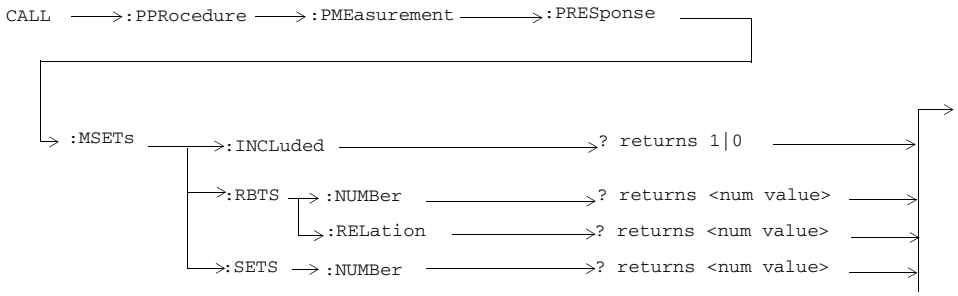


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



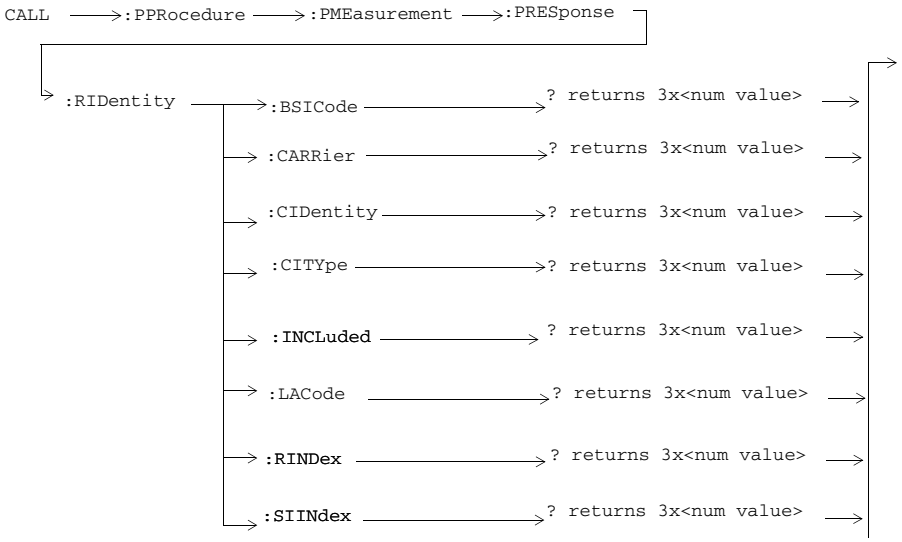
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:MSETs



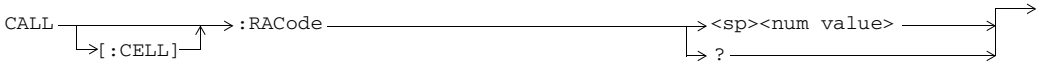
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESponse:RIDentity

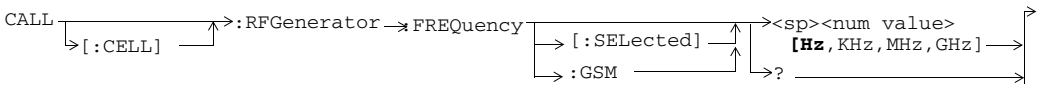


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

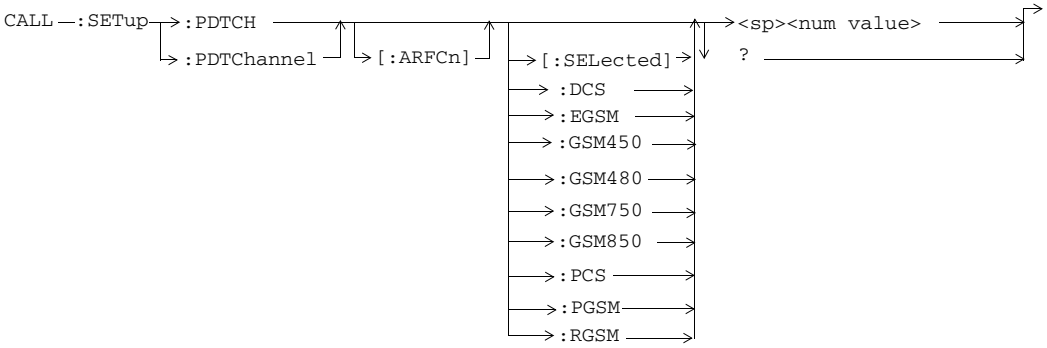
CALL:RACode



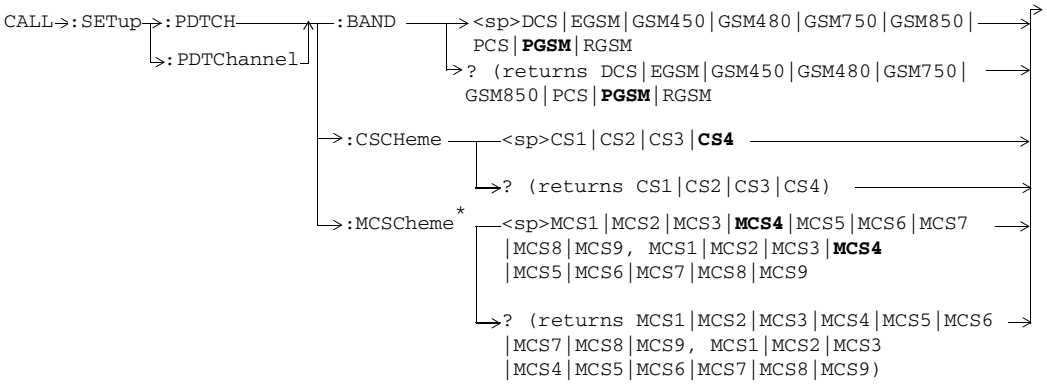
CALL:RFGenerator



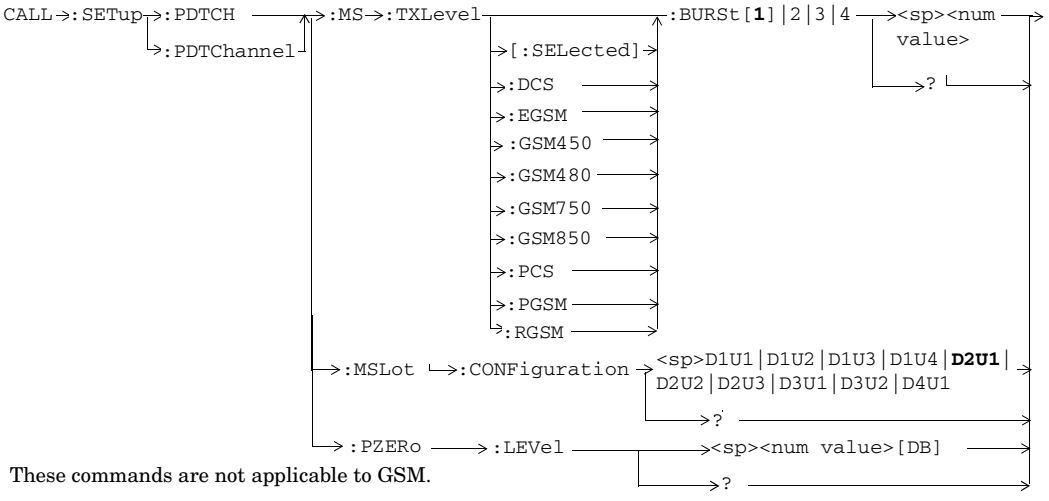
CALL:SETup



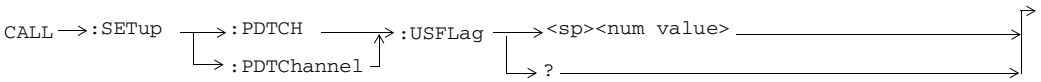
These commands are not applicable to GSM.



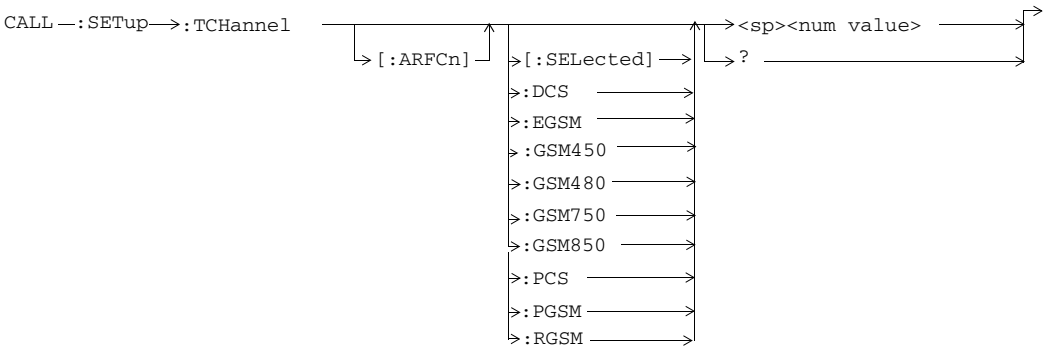
These commands are not applicable to GSM.
* This command is only applicable to the EGPRS lab application

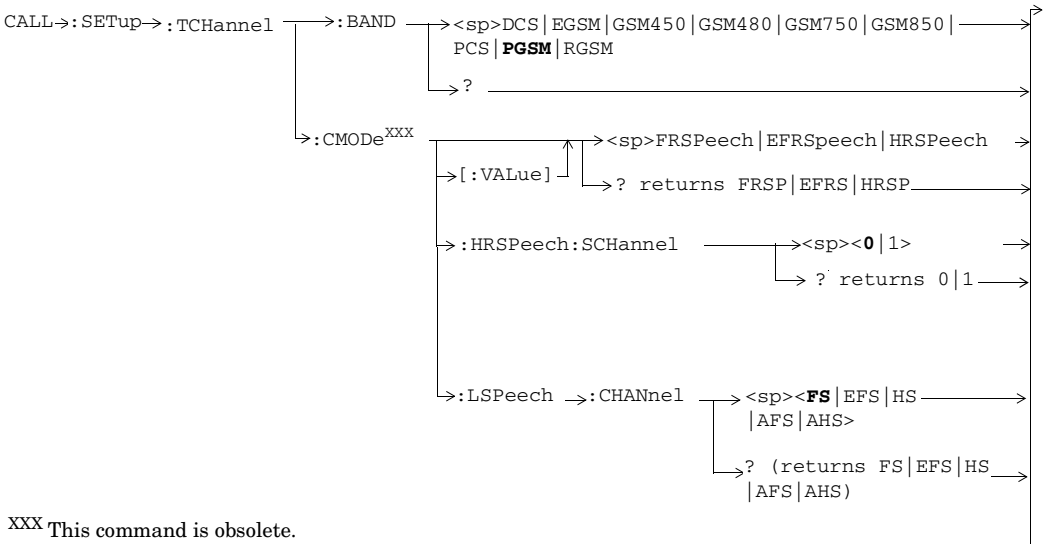


These commands are not applicable to GSM.

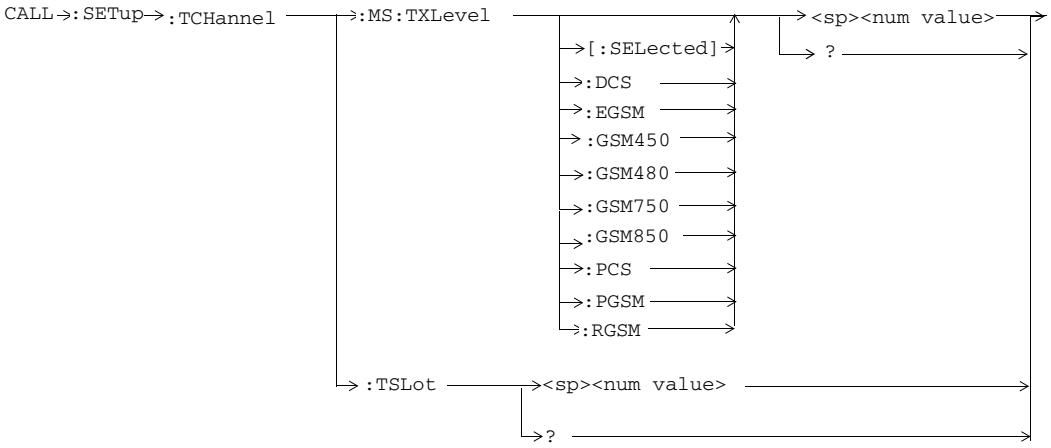


This command is applicable only to the GSM/GPRS and EGPRS lab applications.

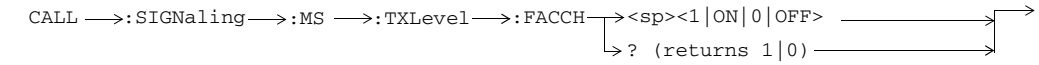




XXX This command is obsolete.

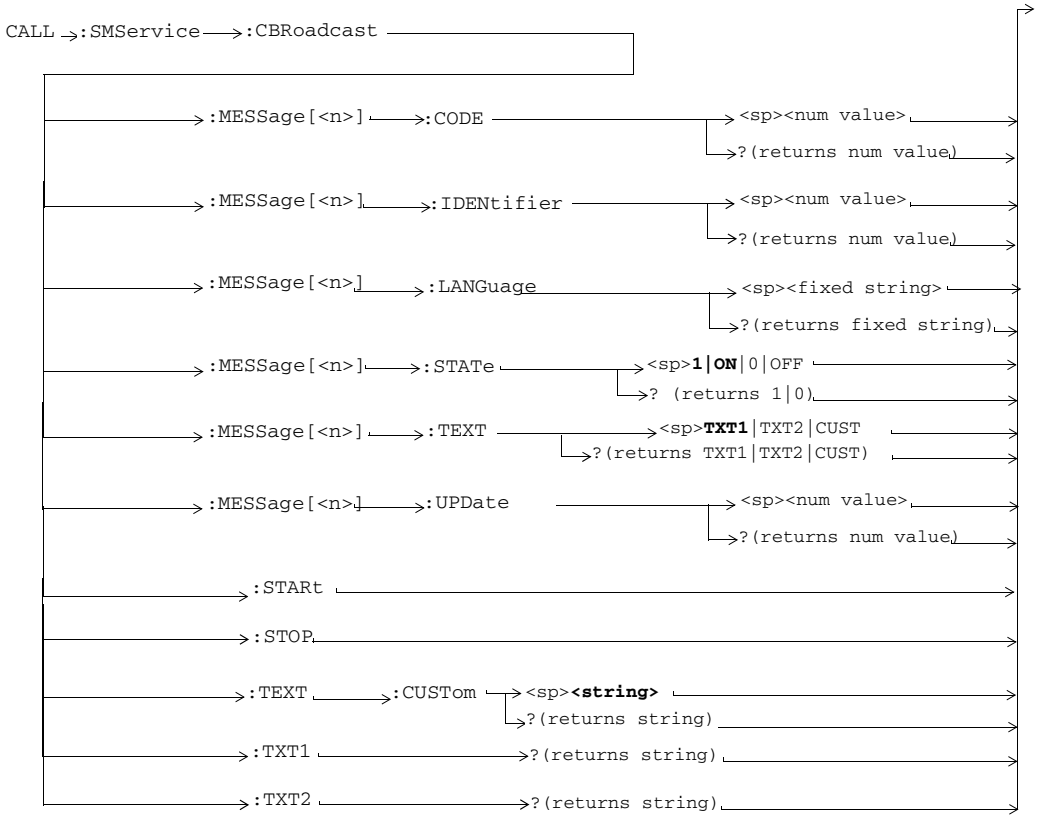

CALL
:SETup
:TCHannel
:MS:TXLevel
[:SELected]
:DCS
:EGSM
:GSM450
:GSM480
:GSM750
:GSM850
:PCS
:PGSM
:RGSM
<sp><num value>
?
:TSLot
<sp><num value>
?

CALL:SIGNaling

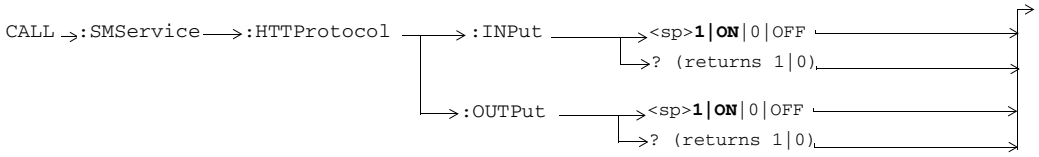


This command is not applicable to GPRS.

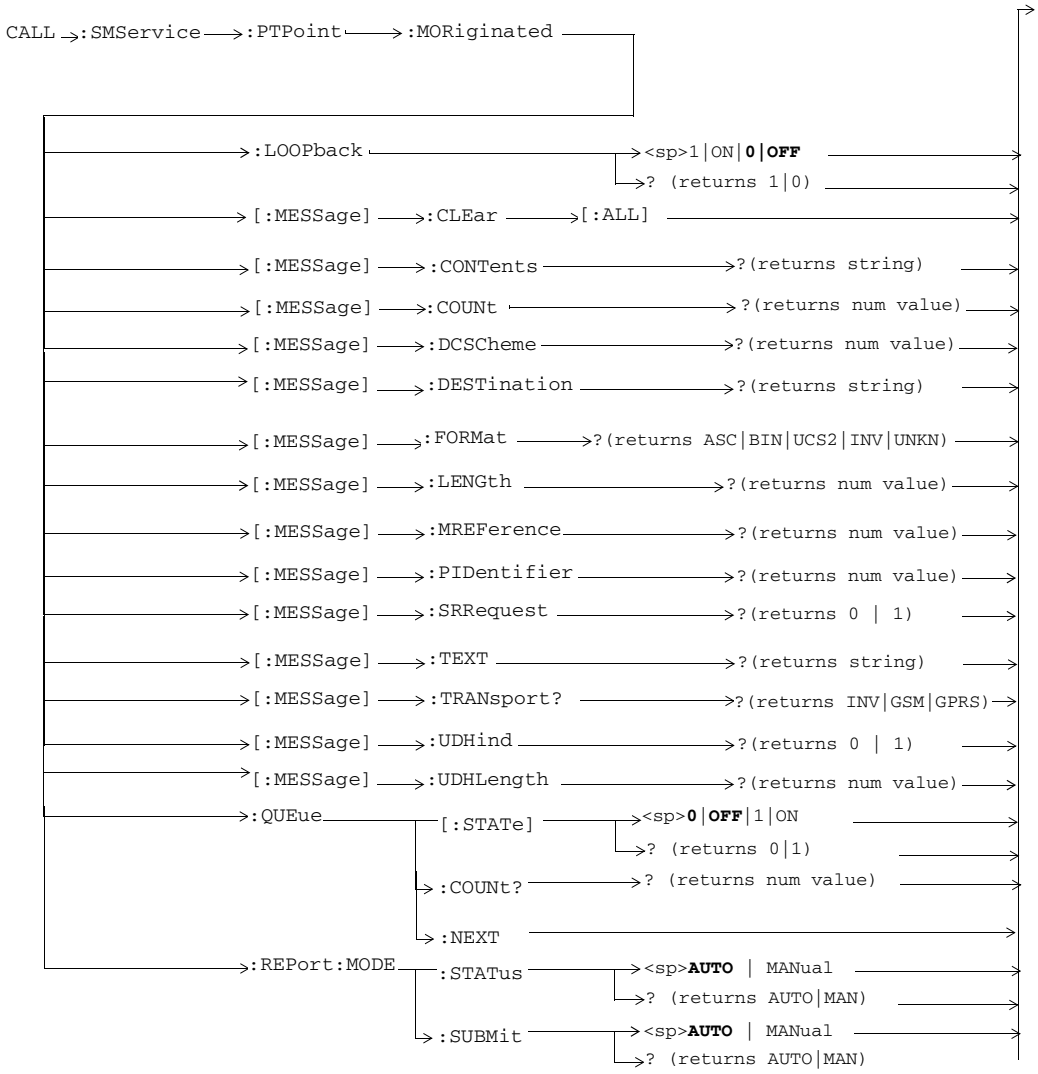
CALL:SMService



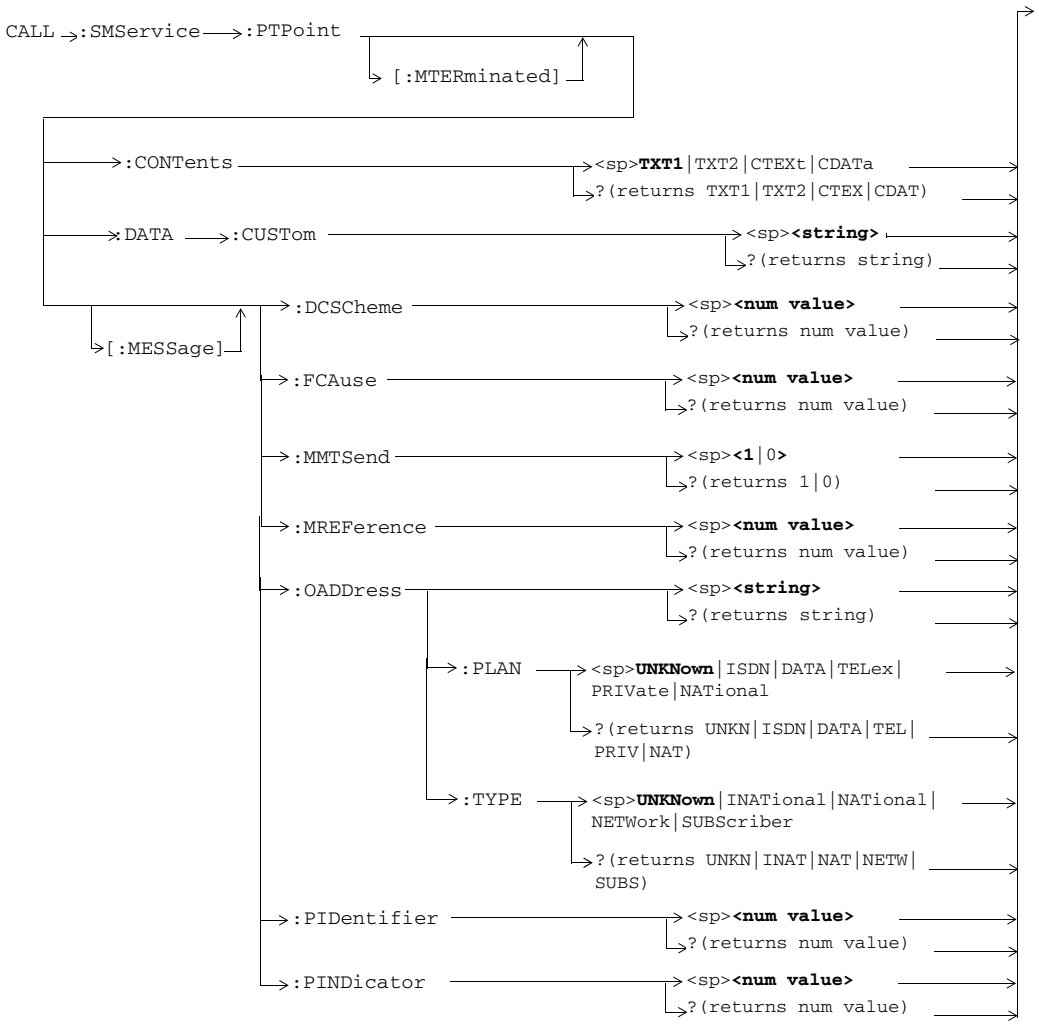
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



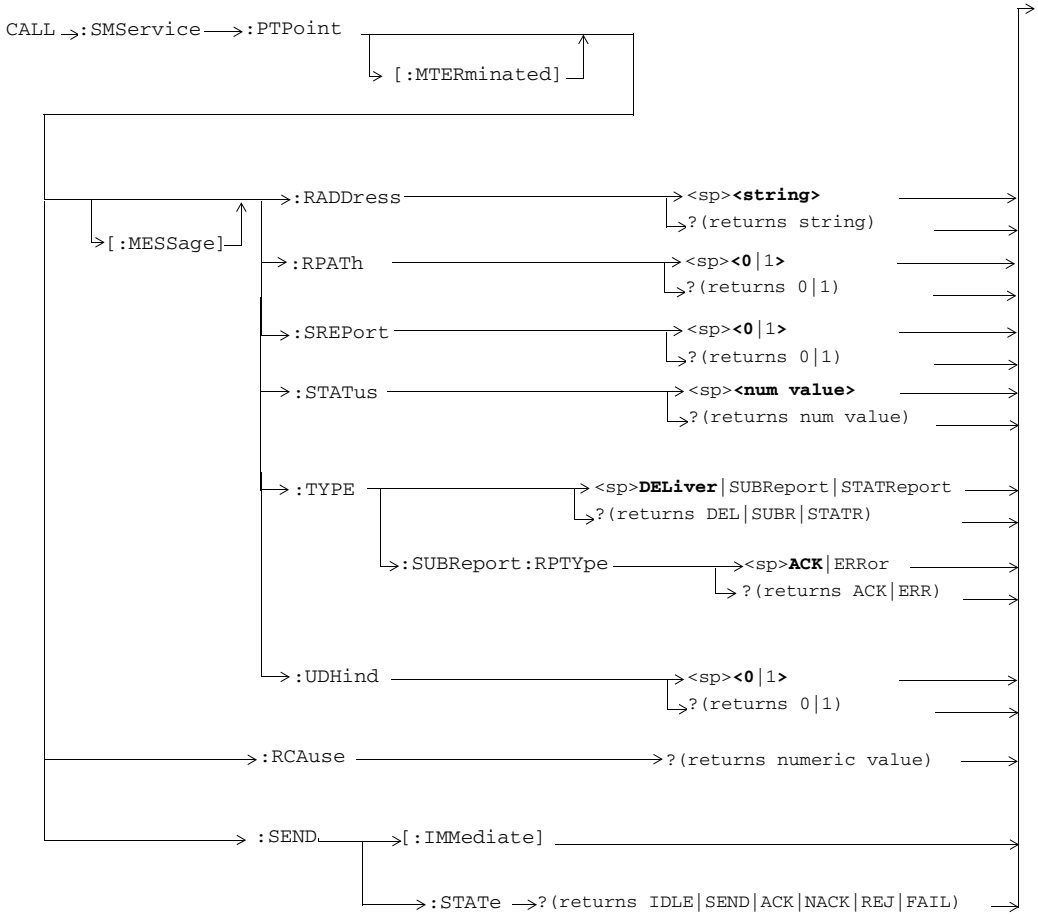
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



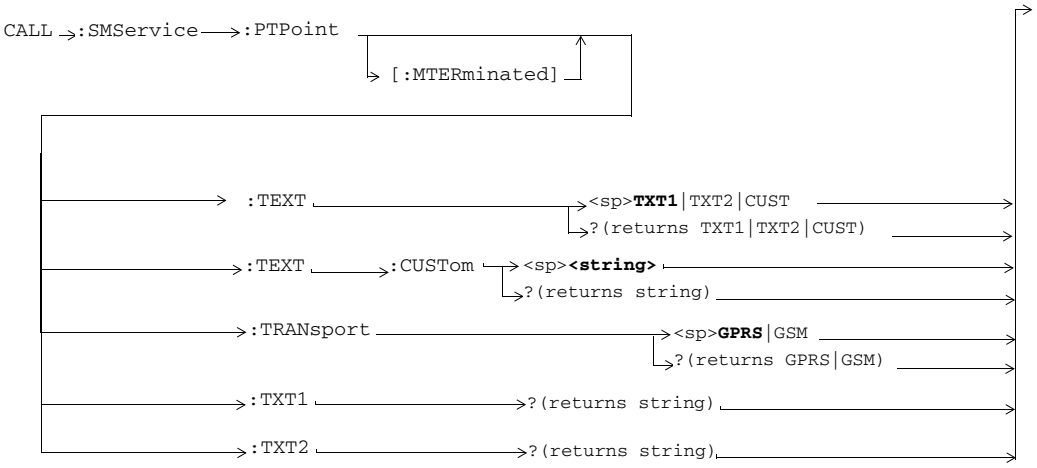
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

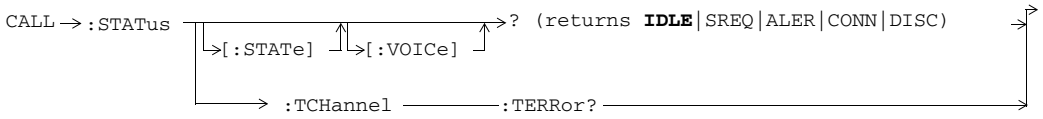


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

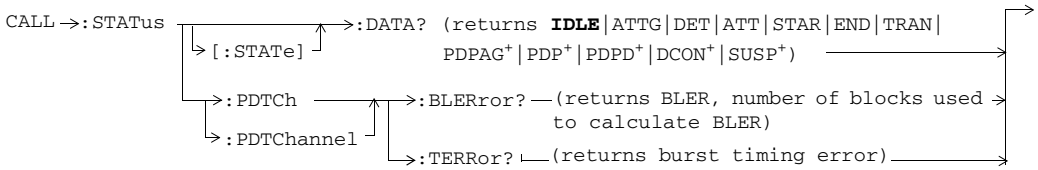


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

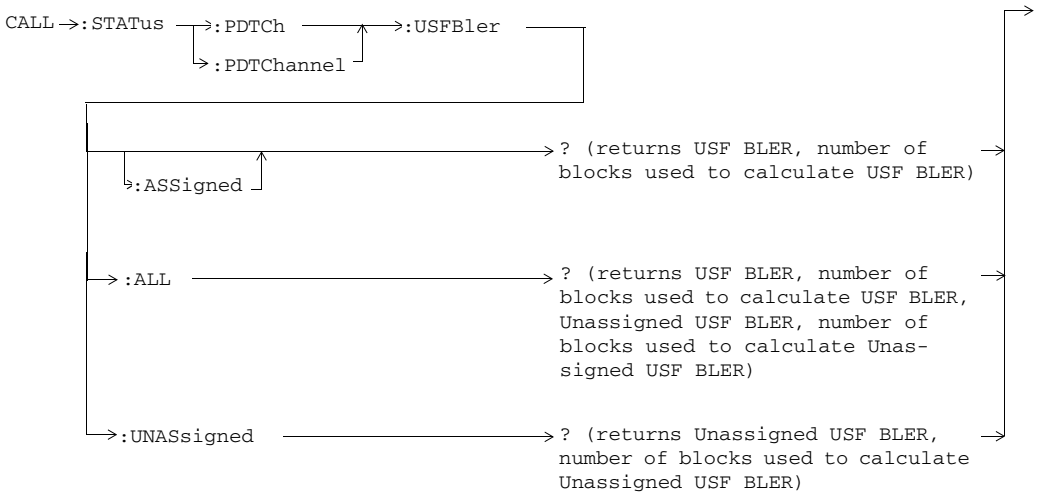
CALL:STATus



These commands are not applicable to GPRS.

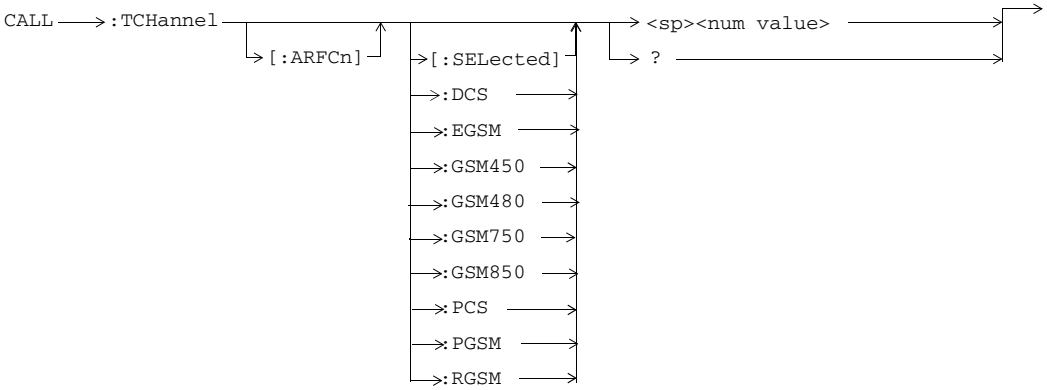


These commands are not applicable to GSM.
+Only applicable to the GSM/GPRS and EGPRS LAs.

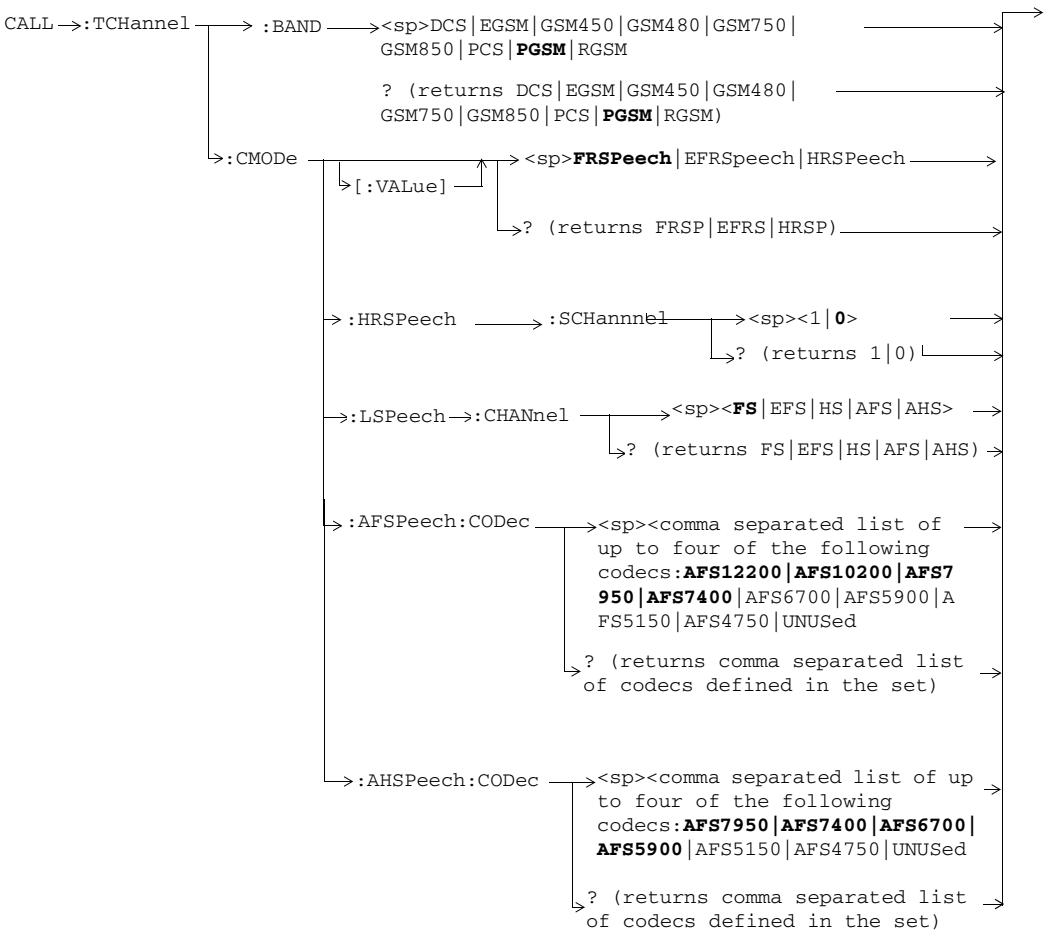


These commands are applicable only to the GSM/GPRS and EGPRS lab applications.

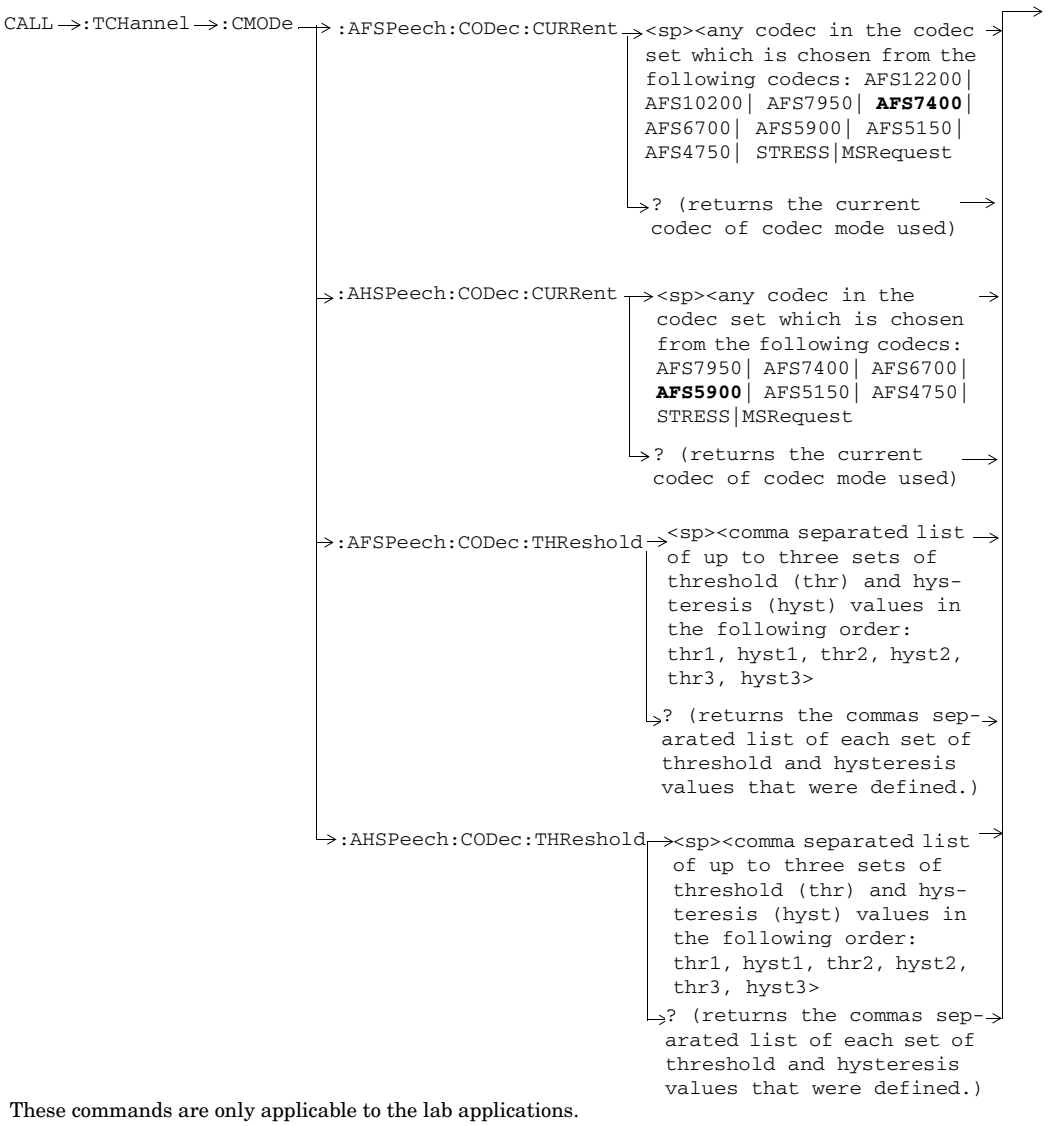
CALL:TCHannel



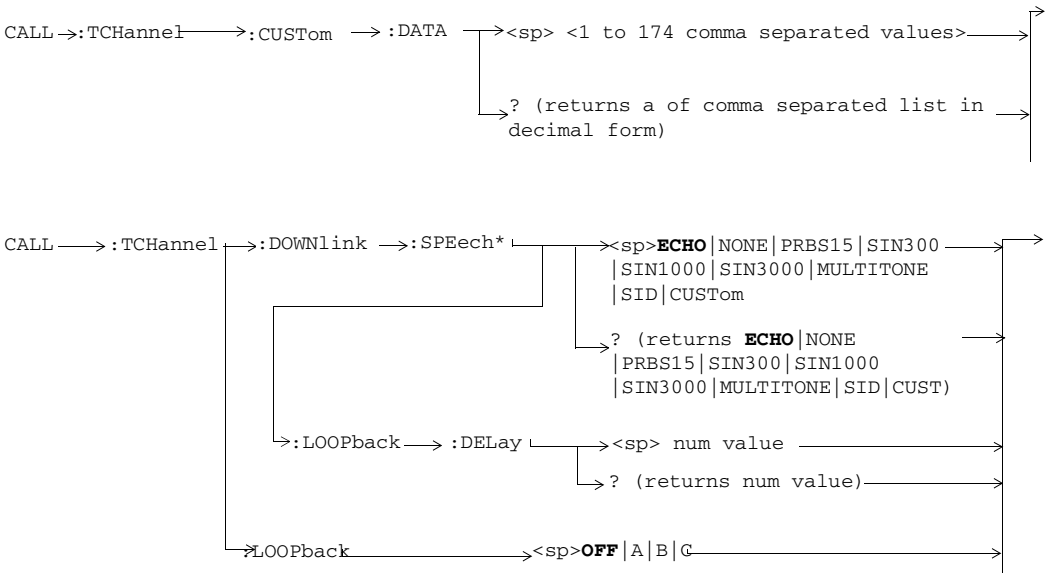
These commands are not applicable to GPRS.

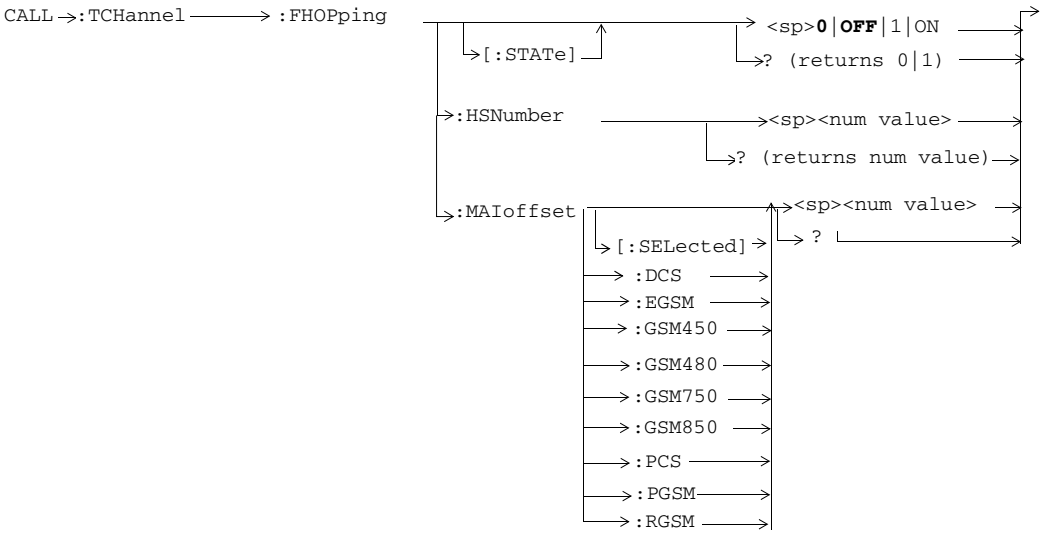


These commands are not applicable to the lab applications.

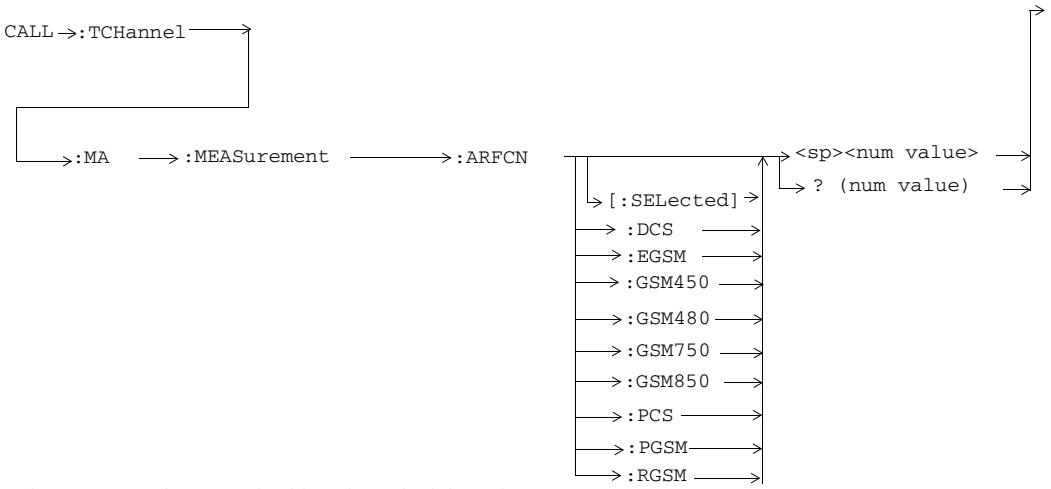


These commands are only applicable to the lab applications.

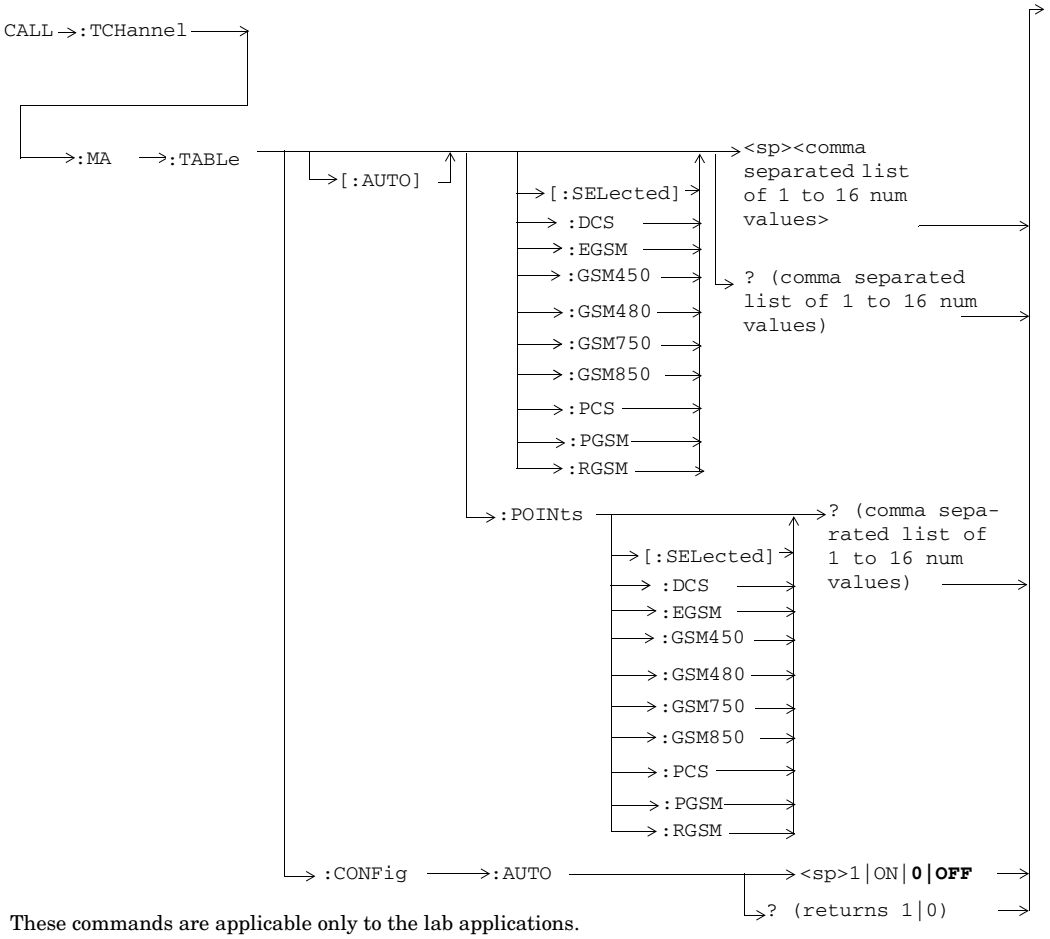

CALL
:TCHannel
:CUSTom
:DATA
<sp> <1 to 174 comma separated values>
? (returns a of comma separated list in decimal form)
CALL
:TCHannel
:DOWNlink
:SPEech*
<sp>ECHO|NONE|PRBS15|SIN300|SIN1000|SIN3000|MULTITONE|SID|CUSTom
? (returns ECHO|NONE|PRBS15|SIN300|SIN1000|SIN3000|MULTITONE|SID|CUST)
:LOOPback
:DELay
<sp> num value
? (returns num value)
:LOOPback
<sp>OFF|A|B|C



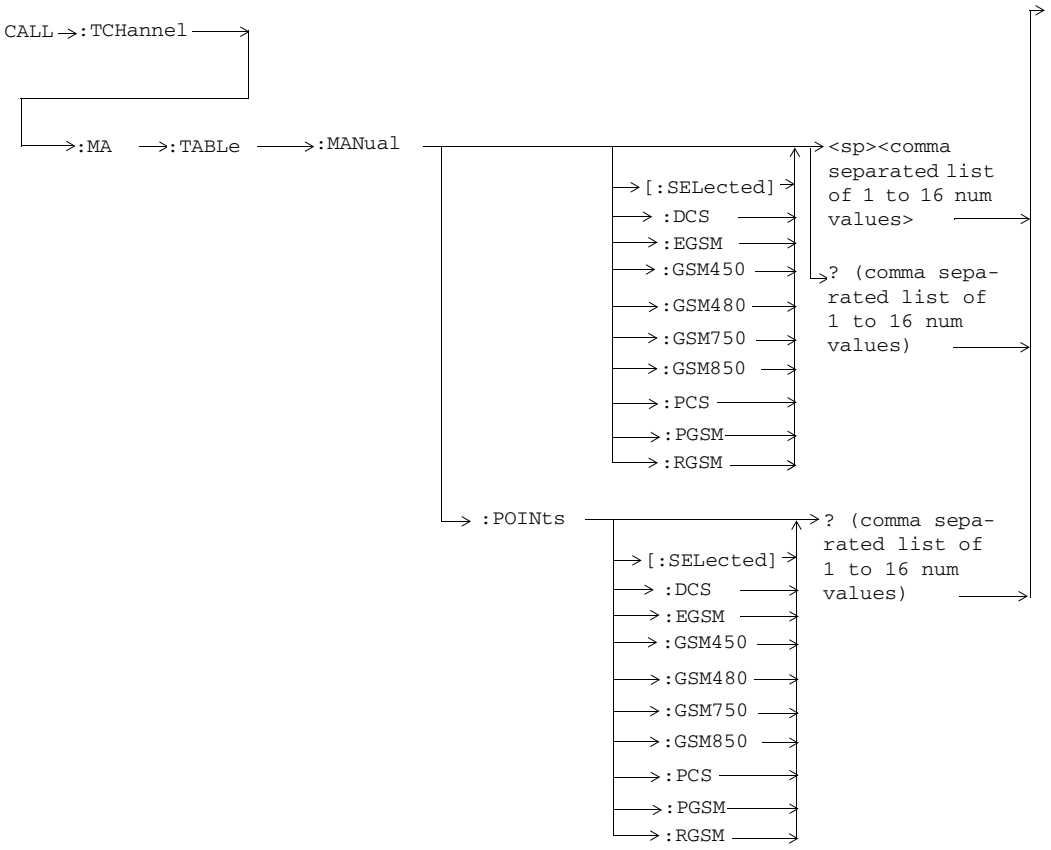
These commands are applicable only to the lab applications.



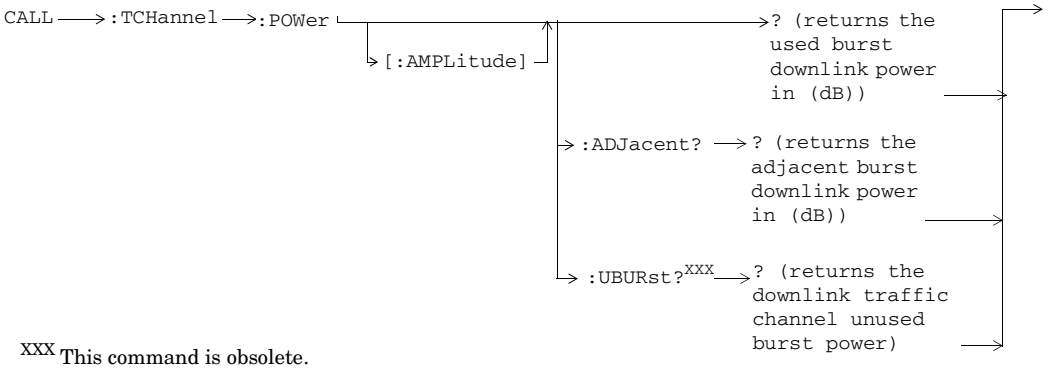
These commands are applicable only to the lab applications.



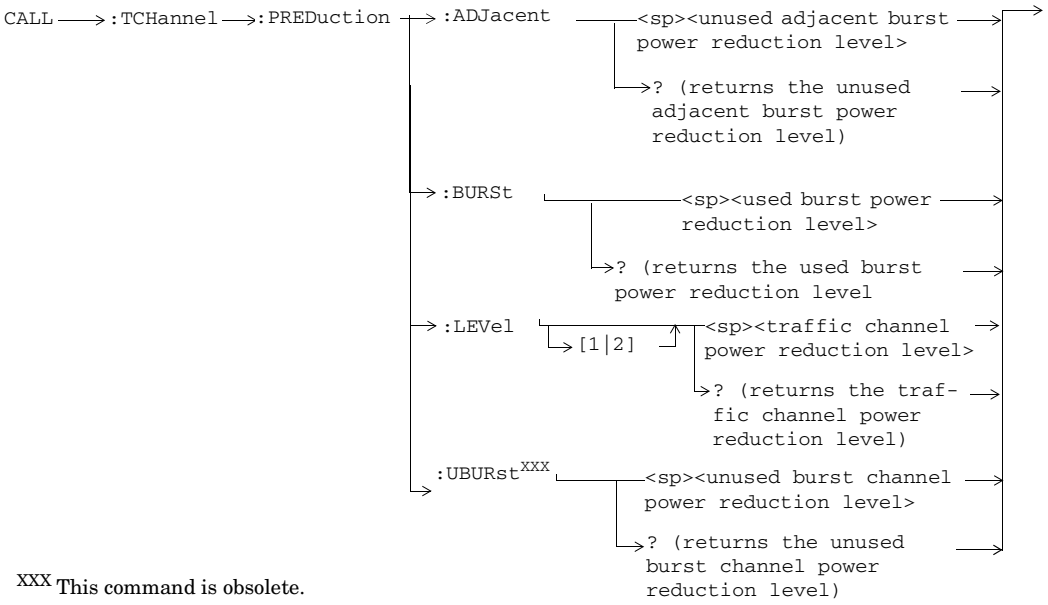
These commands are applicable only to the lab applications.



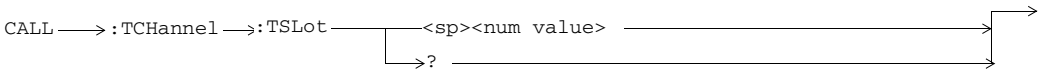
These commands are applicable only to the lab applications.



XXX This command is obsolete.

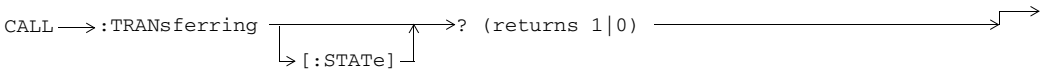


XXX This command is obsolete.



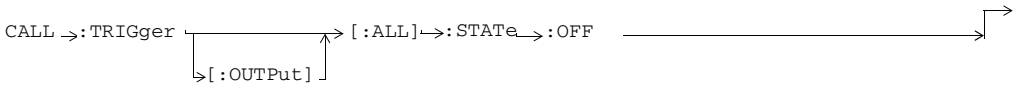
These commands are not applicable to GPRS.

CALL:TRANsferring

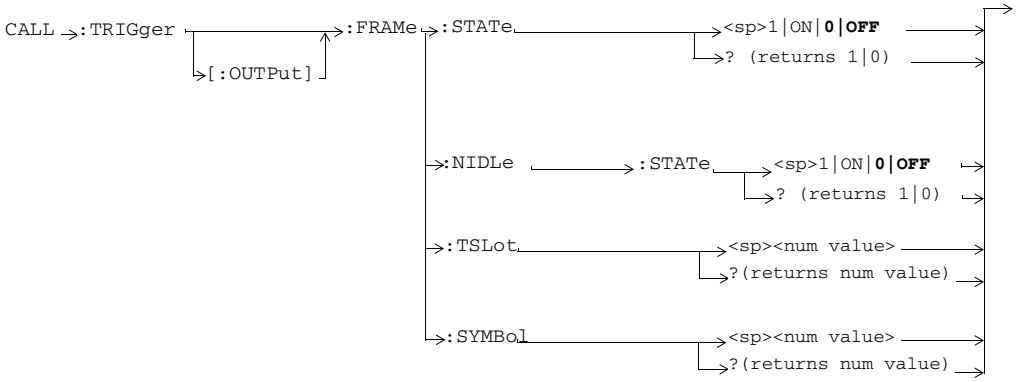


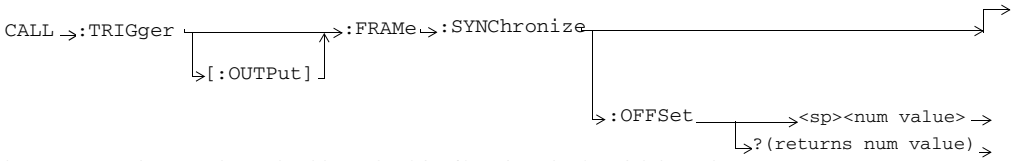
This command is not applicable to GSM.

CALL:TRIGger

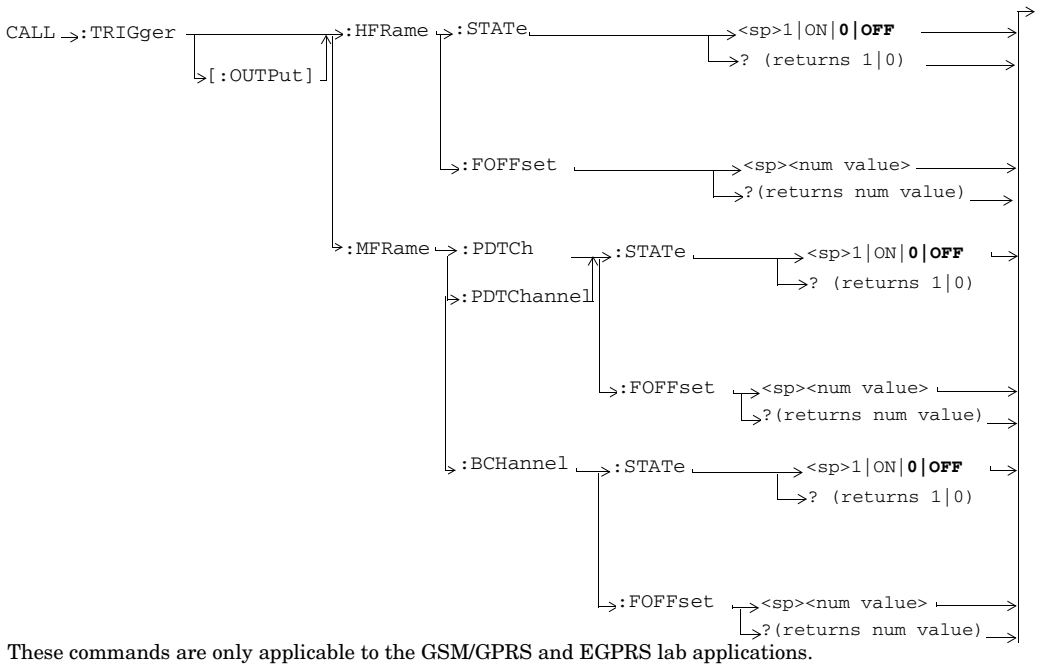


This command is only applicable to the GSM/GPRS and EGPRS lab applications.

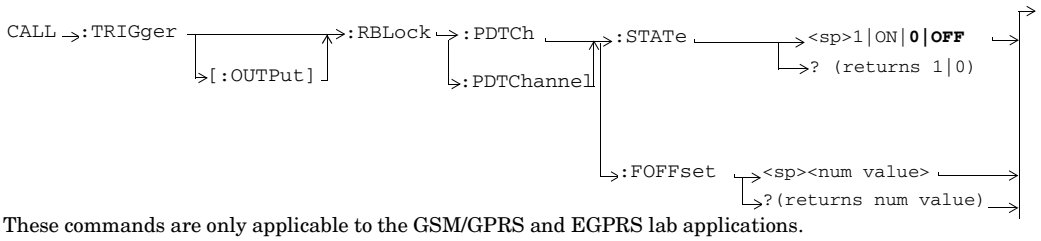




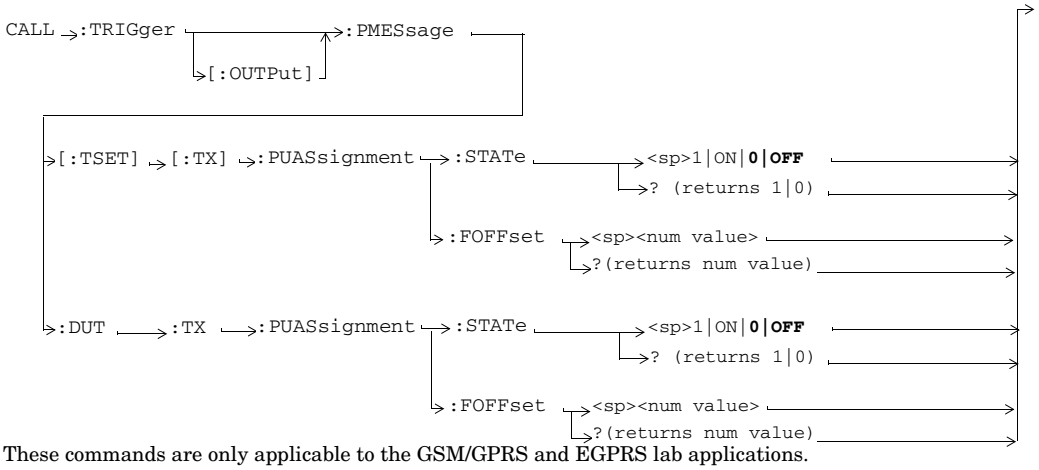
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



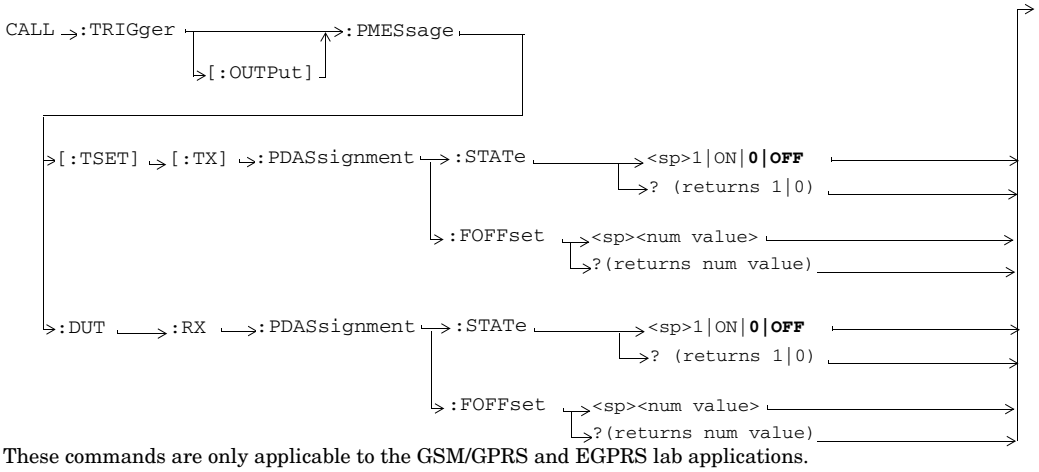
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



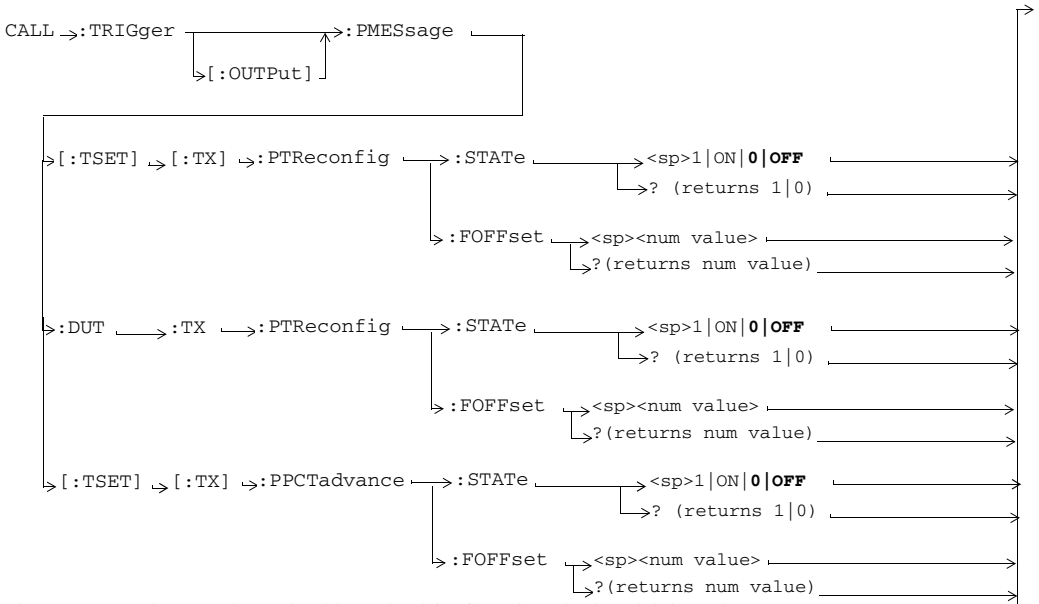
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



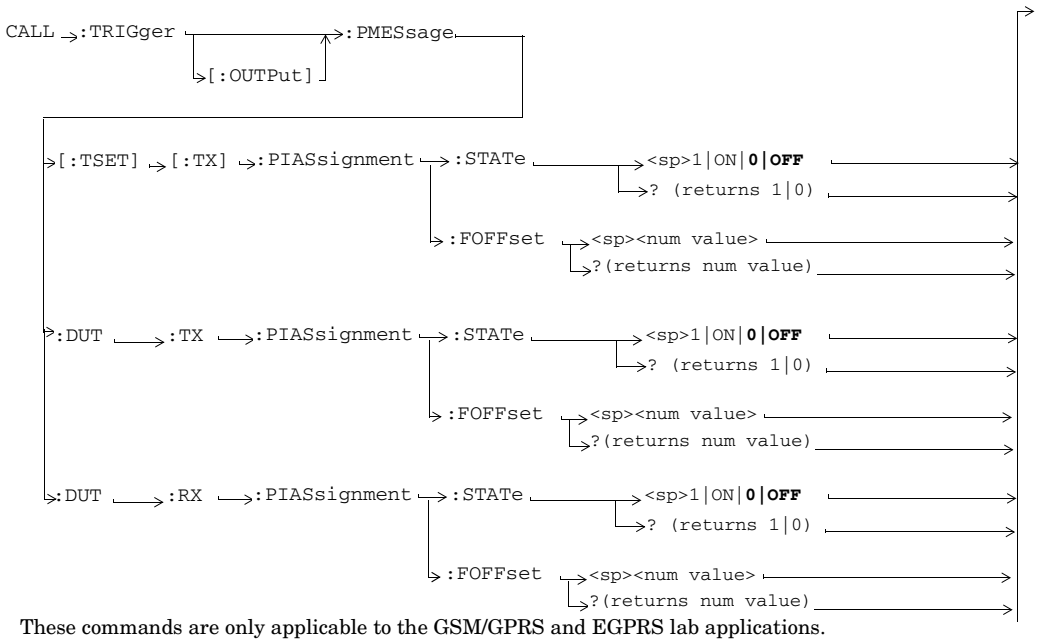
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



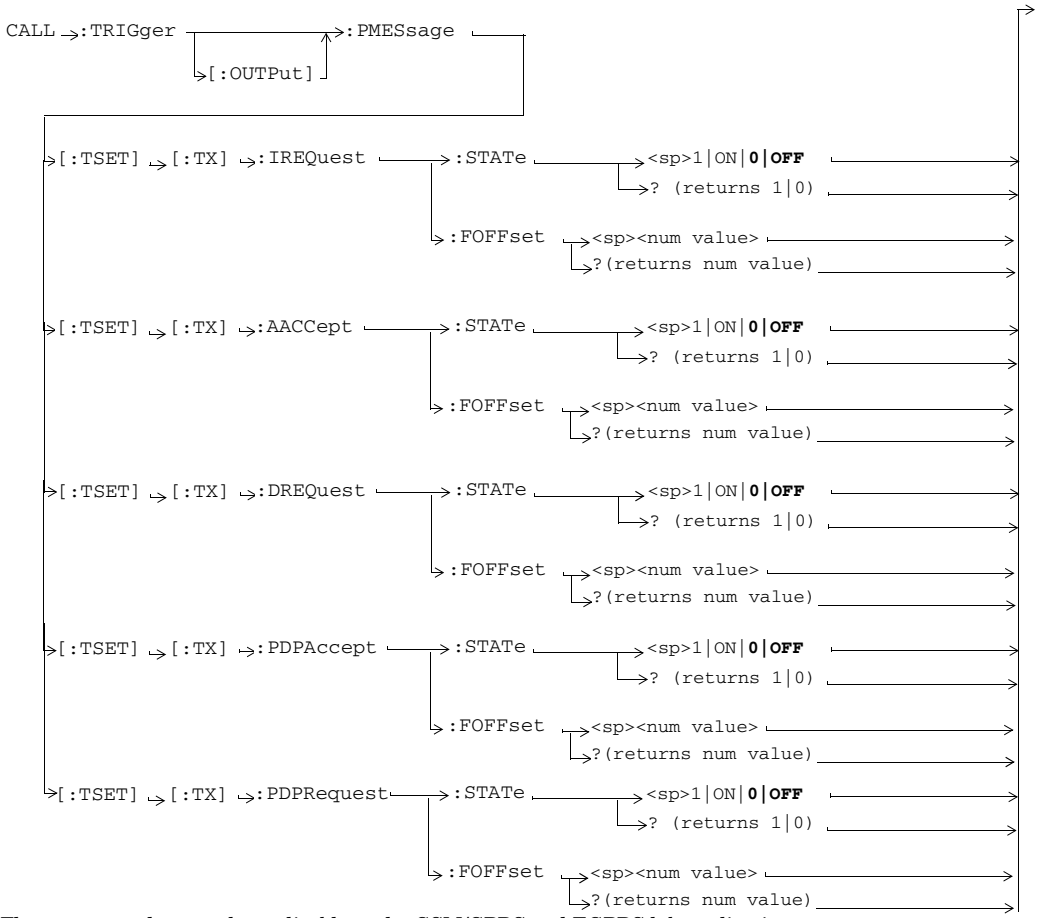
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

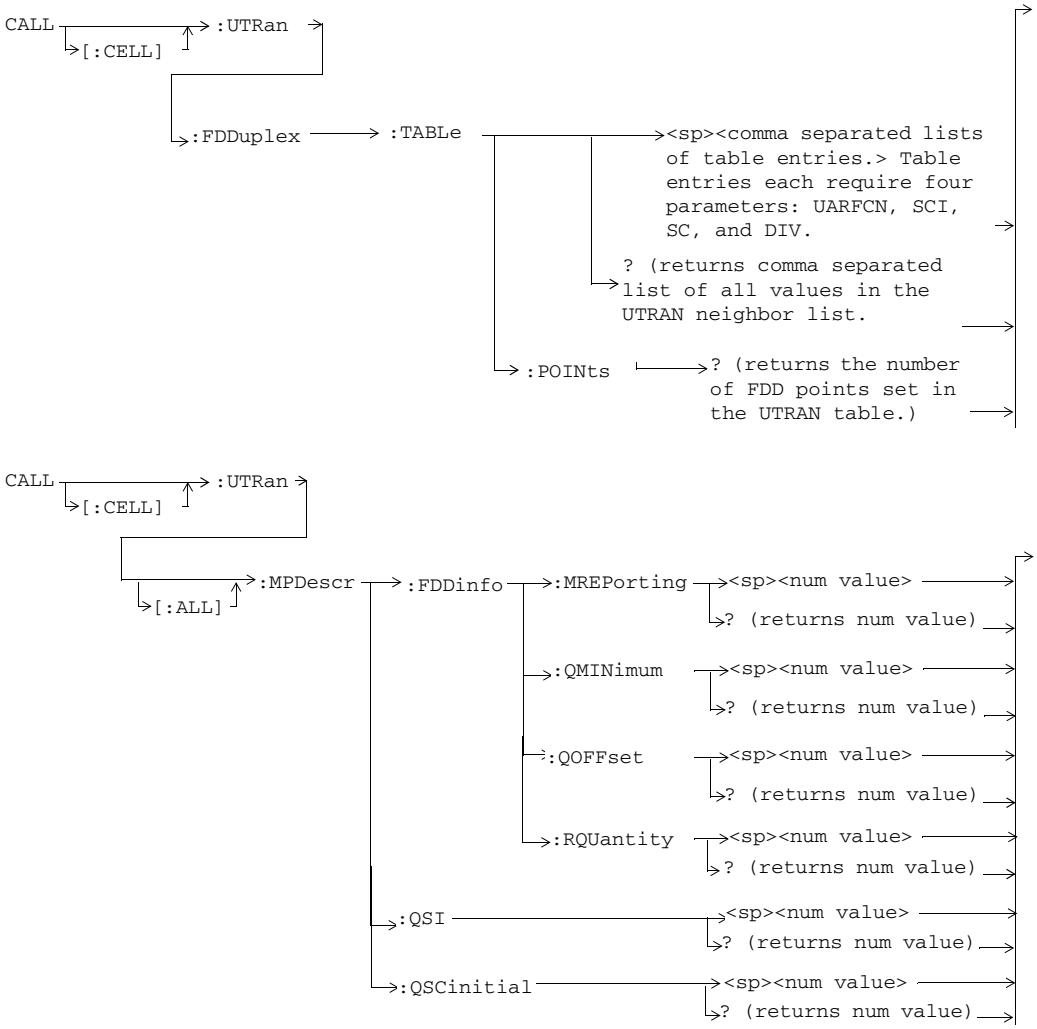


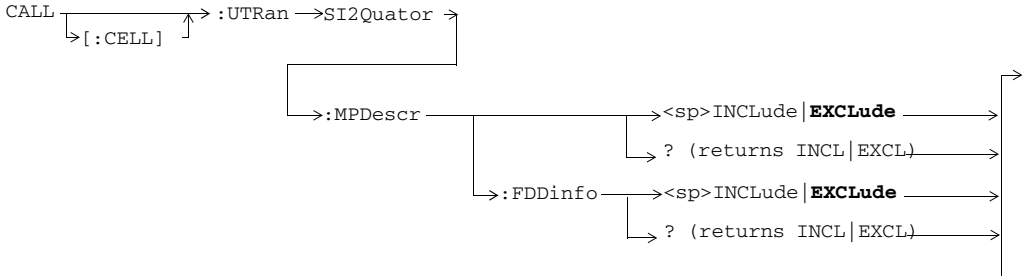
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



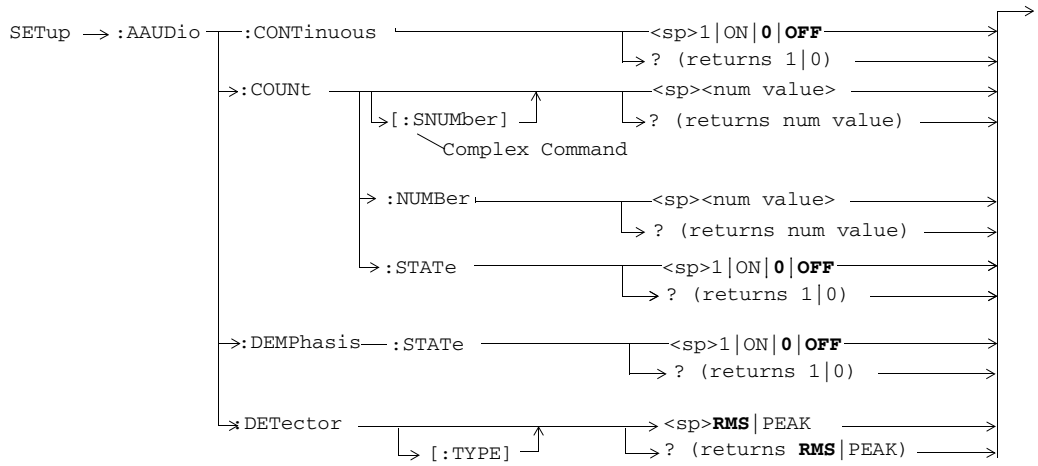
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:UTRan

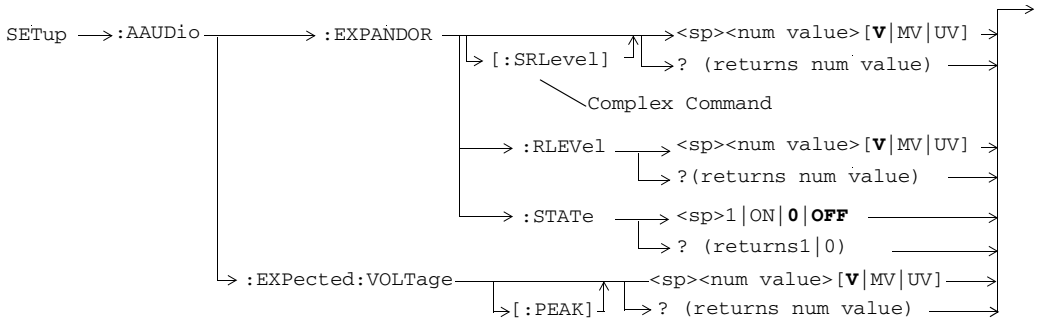

CALL
[:CELL]
:UTRan
:FDDuplex
:TABLe
<sp><comma separated lists of table entries.> Table entries each require four parameters: UARFCN, SCI, SC, and DIV.
? (returns comma separated list of all values in the UTRAN neighbor list.
:POINts
? (returns the number of FDD points set in the UTRAN table.)
CALL
[:CELL]
:UTRan
[:ALL]
:MPDescr
:FDDinfo
:MREPorting
<sp><num value>
? (returns num value)
:QMINimum
<sp><num value>
? (returns num value)
:QOFFset
<sp><num value>
? (returns num value)
:RQUantity
<sp><num value>
? (returns num value)
:QSI
<sp><num value>
? (returns num value)
:QSCinitial
<sp><num value>
? (returns num value)


CALL
[:CELL]
:UTRan
SI2Quator
:MPDescr
<sp>INCLude|EXCLude
? (returns INCL|EXCL)
:FDDinfo
<sp>INCLude|EXCLude
? (returns INCL|EXCL)

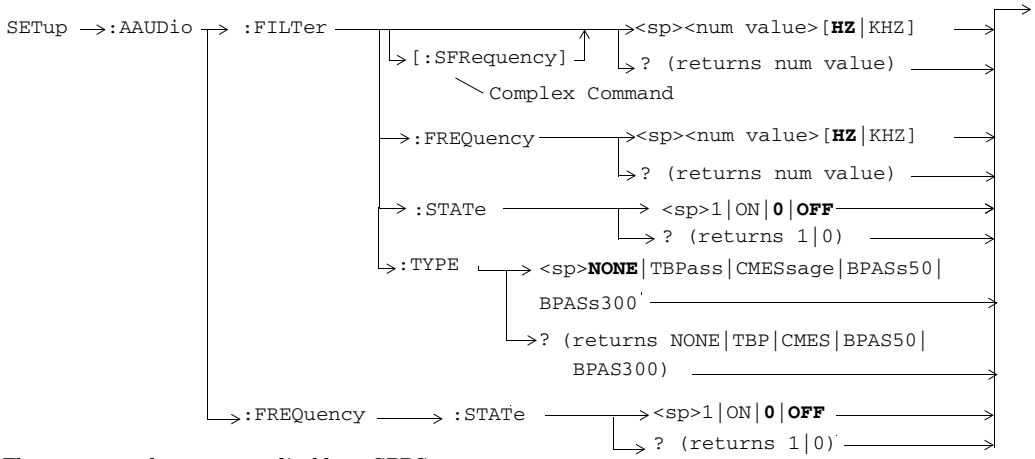
SETup:AAUDio



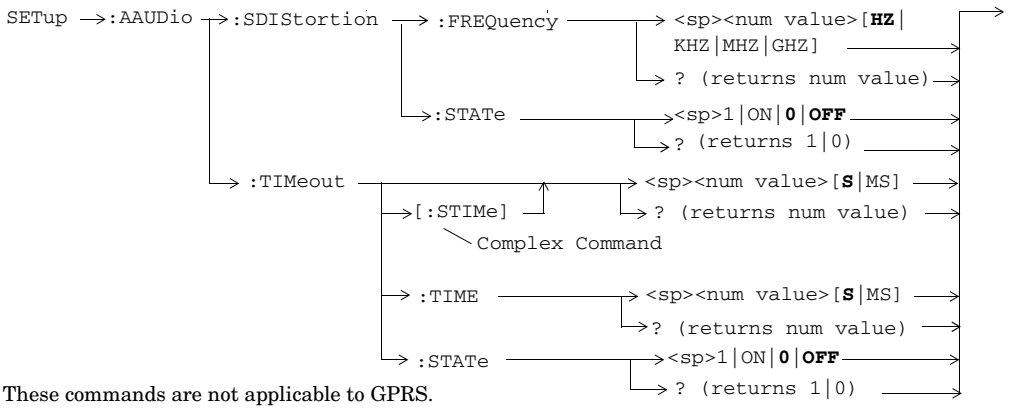
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

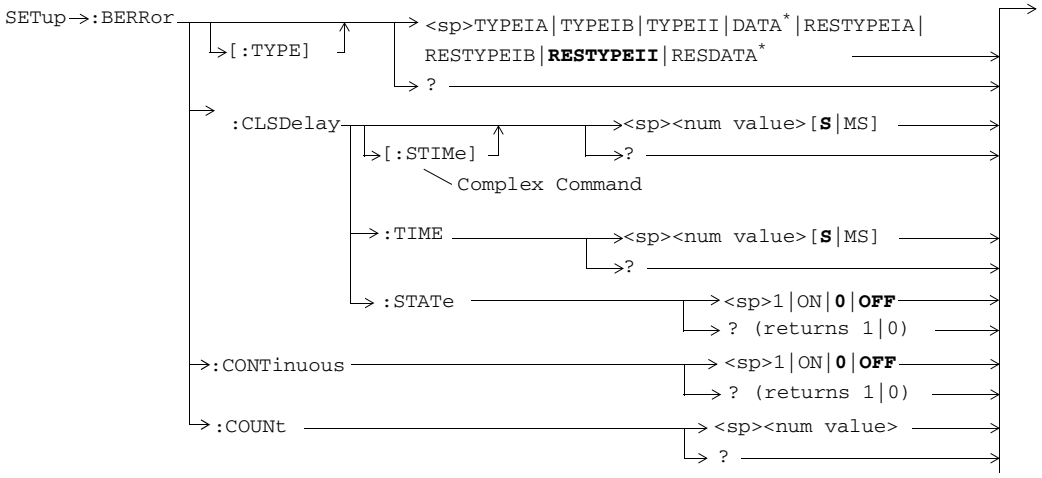


These commands are not applicable to GPRS.



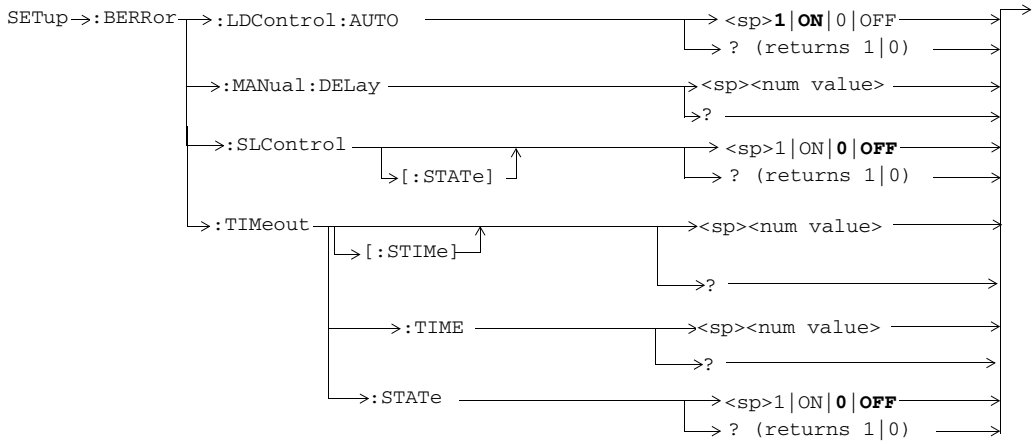
These commands are not applicable to GPRS.

SETup:BERRor



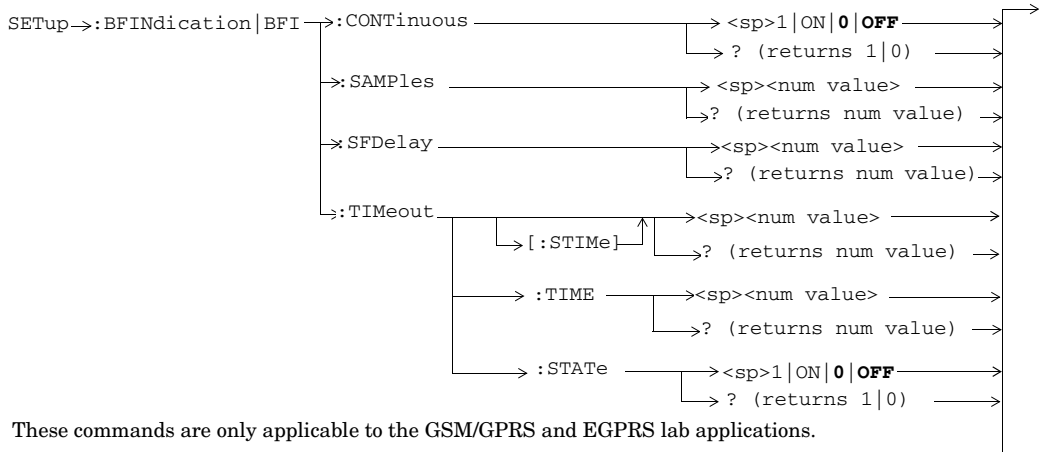
These commands are not applicable to GPRS.

* These commands are only applicable to the lab applications.



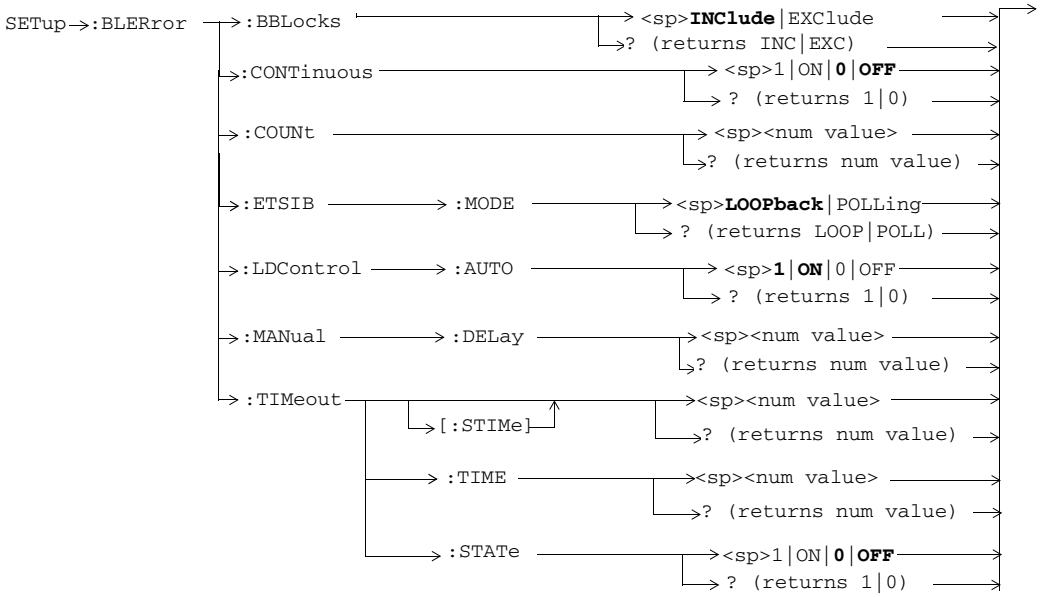
These commands are not applicable to GPRS.

SETup:<BFINdication|BFI>



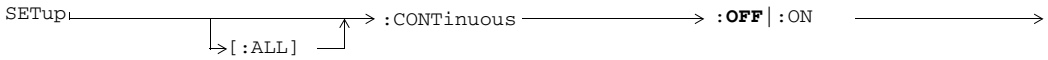
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

SETup:BLERror

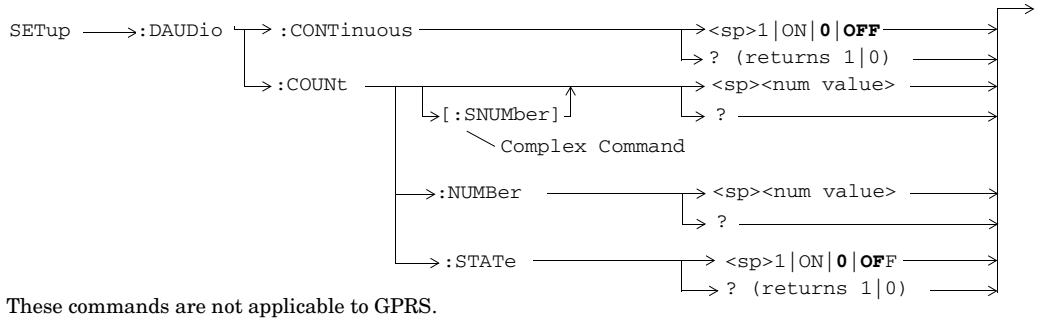


These commands are not applicable to GSM.

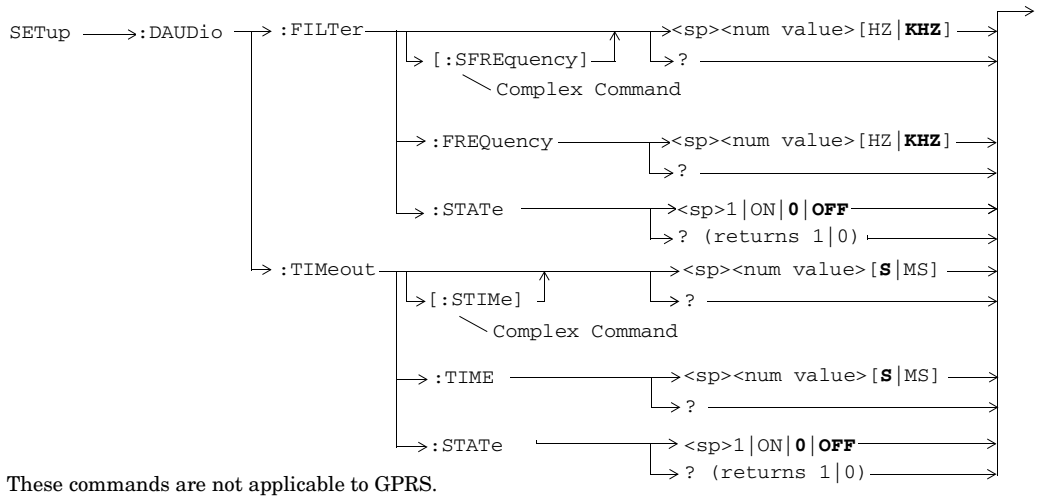
SETup:CONTinuous



SETup:DAUDio

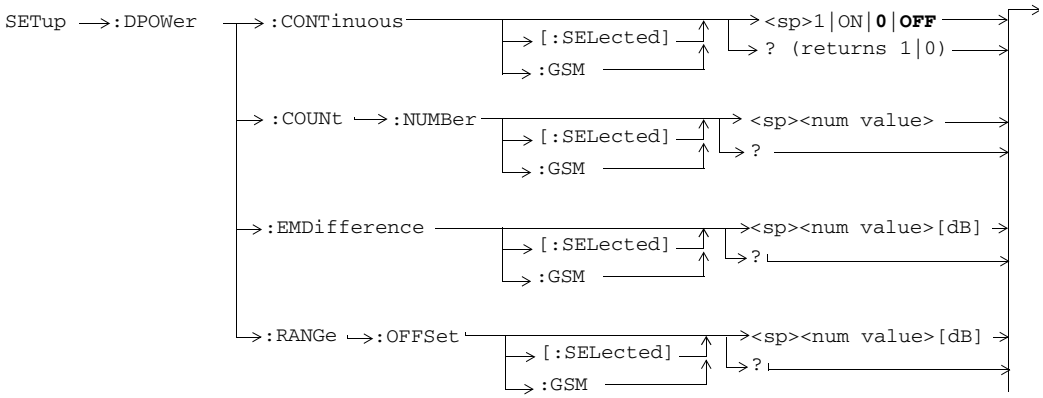


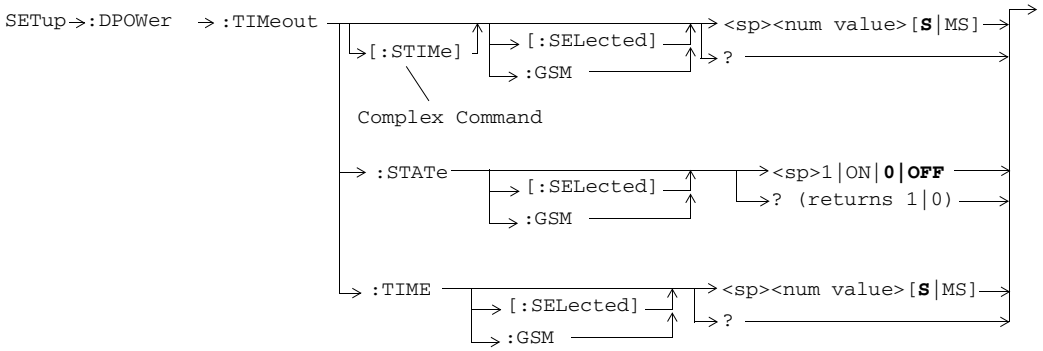
These commands are not applicable to GPRS.



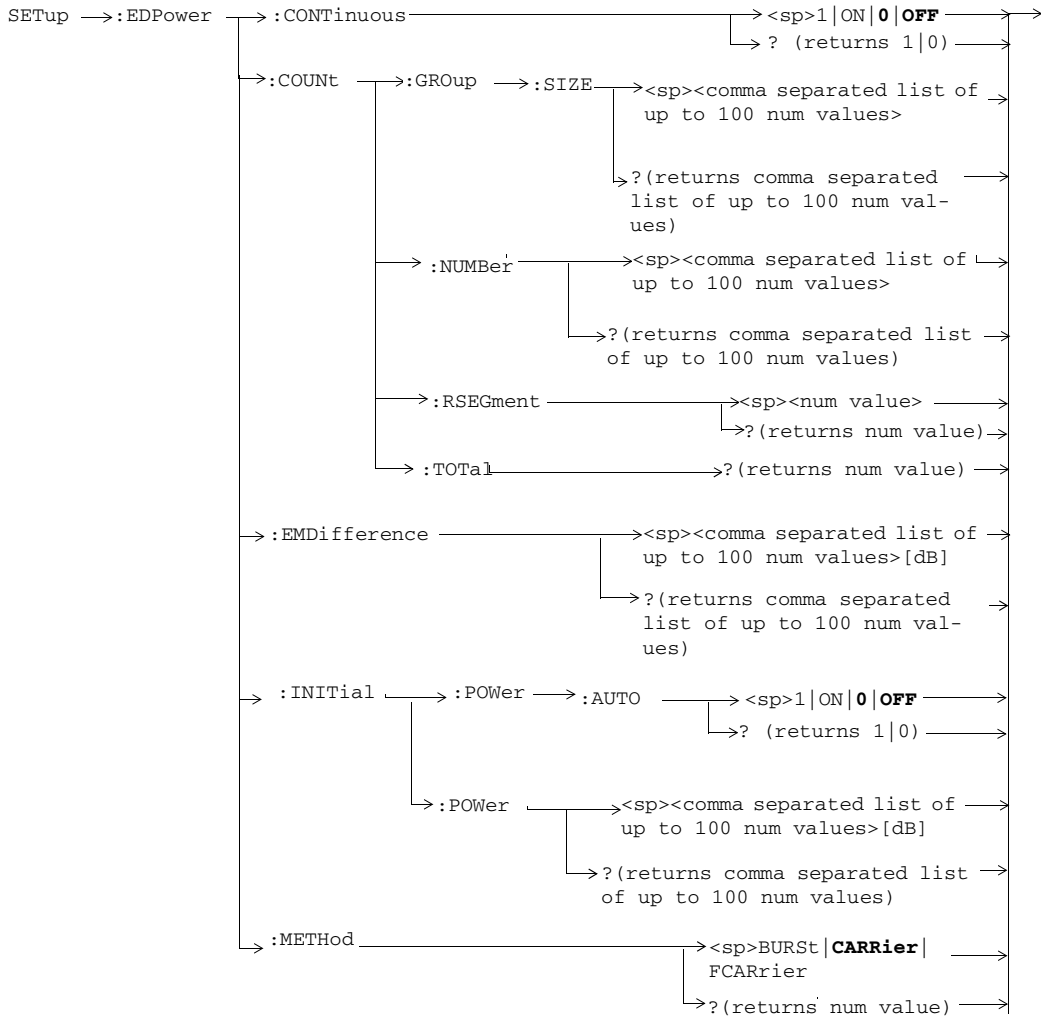
These commands are not applicable to GPRS.

SETup:DPOWer

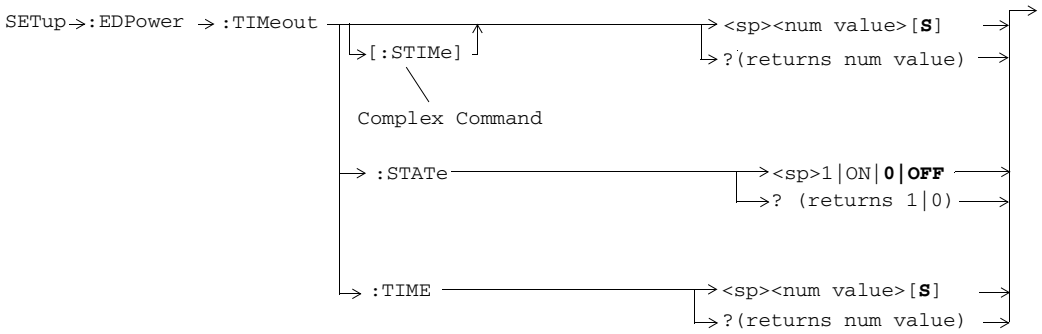




SETup:EDPower

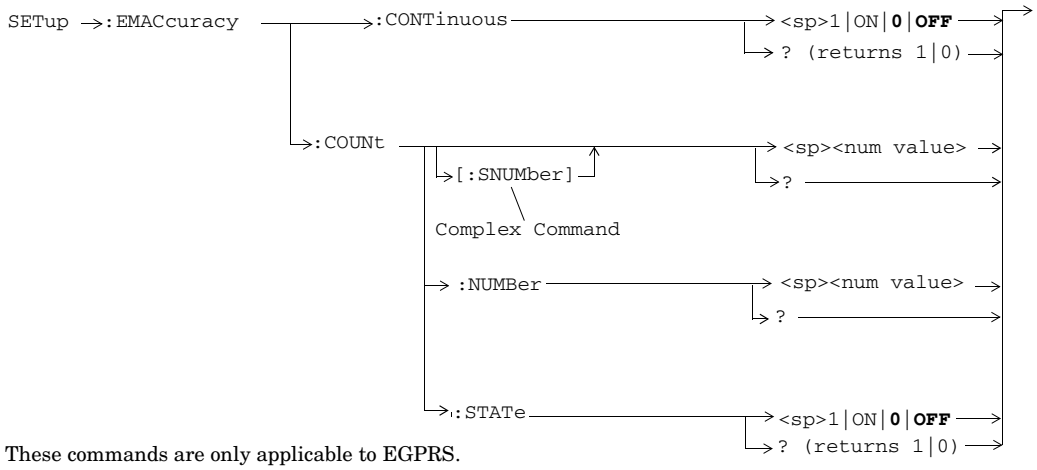


These commands are only applicable to EGPRS.

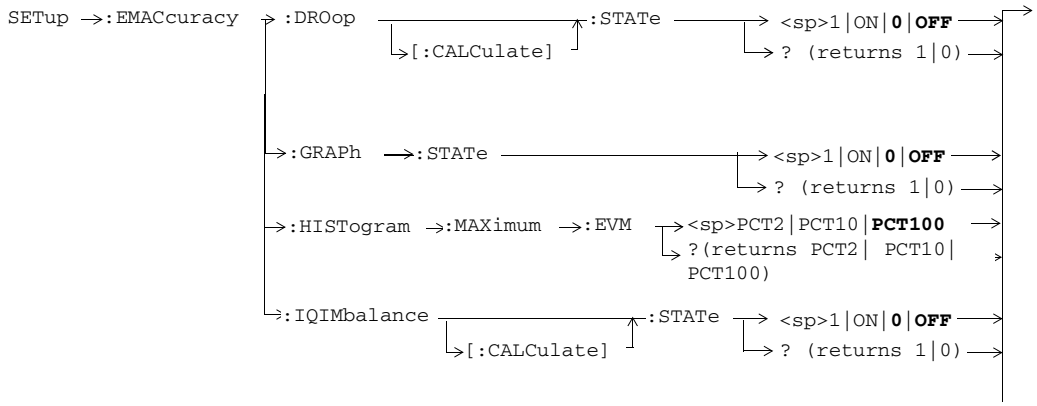


These commands are only applicable to EGPRS.

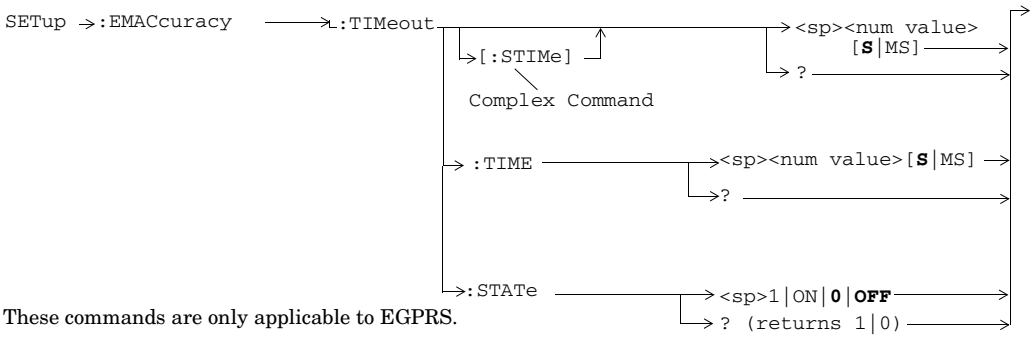
SETup:EMACcuracy



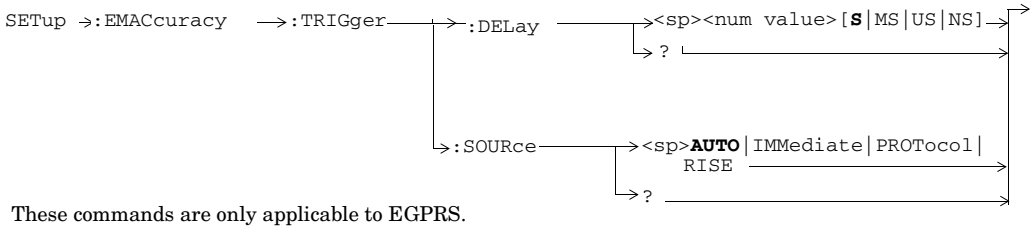
These commands are only applicable to EGPRS.



This command is only applicable to EGPRS.

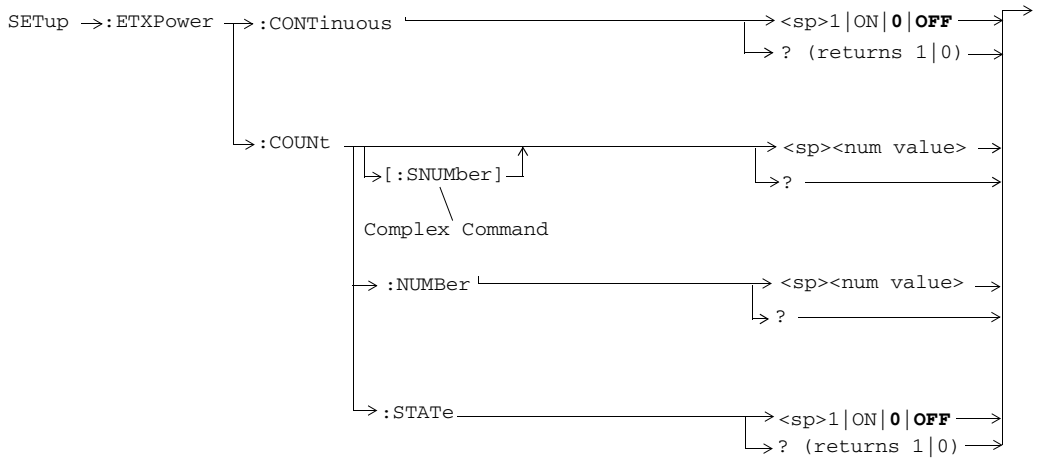


These commands are only applicable to EGPRS.

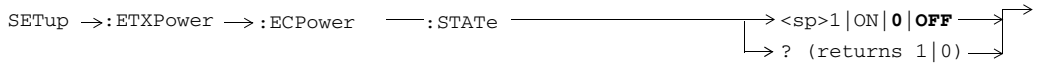


These commands are only applicable to EGPRS.

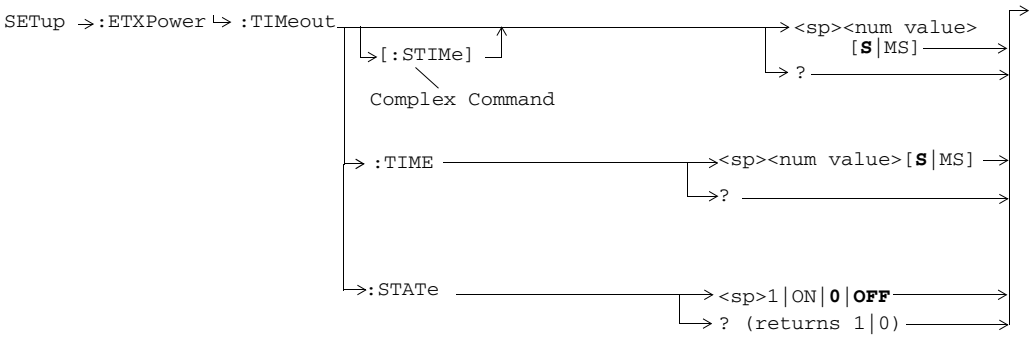
SETup:ETXPower



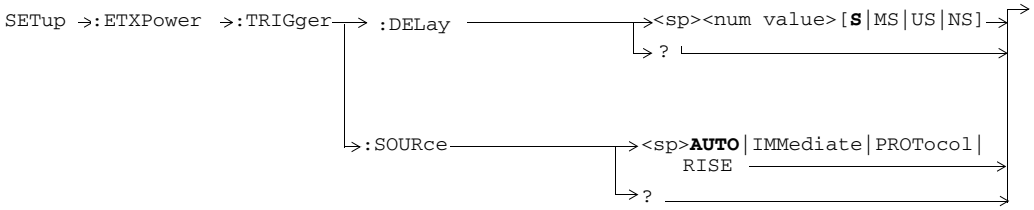
These commands are only applicable to EGPRS.



This command is only applicable to EGPRS.

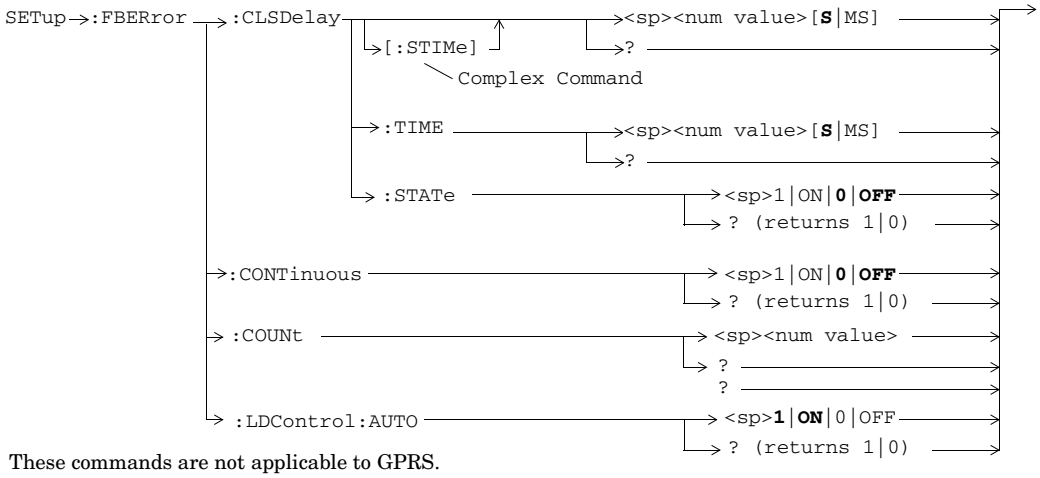


These commands are only applicable to EGPRS.

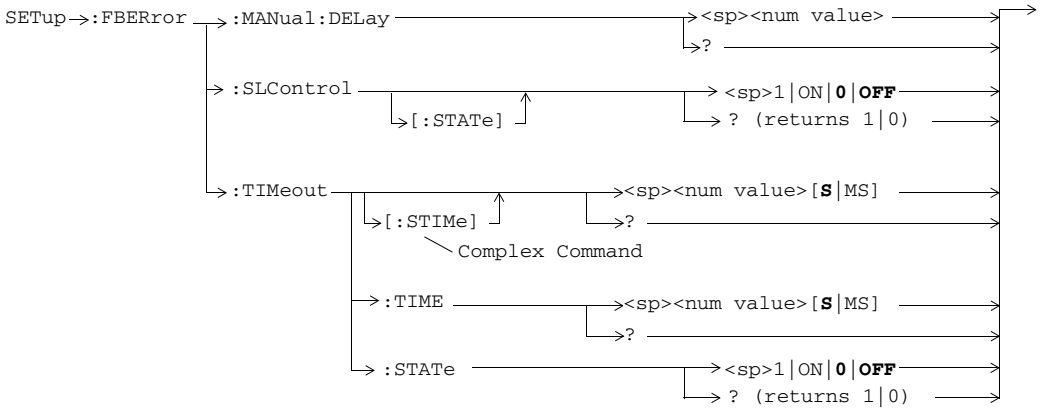


These commands are only applicable to EGPRS.

SETup:FBERror

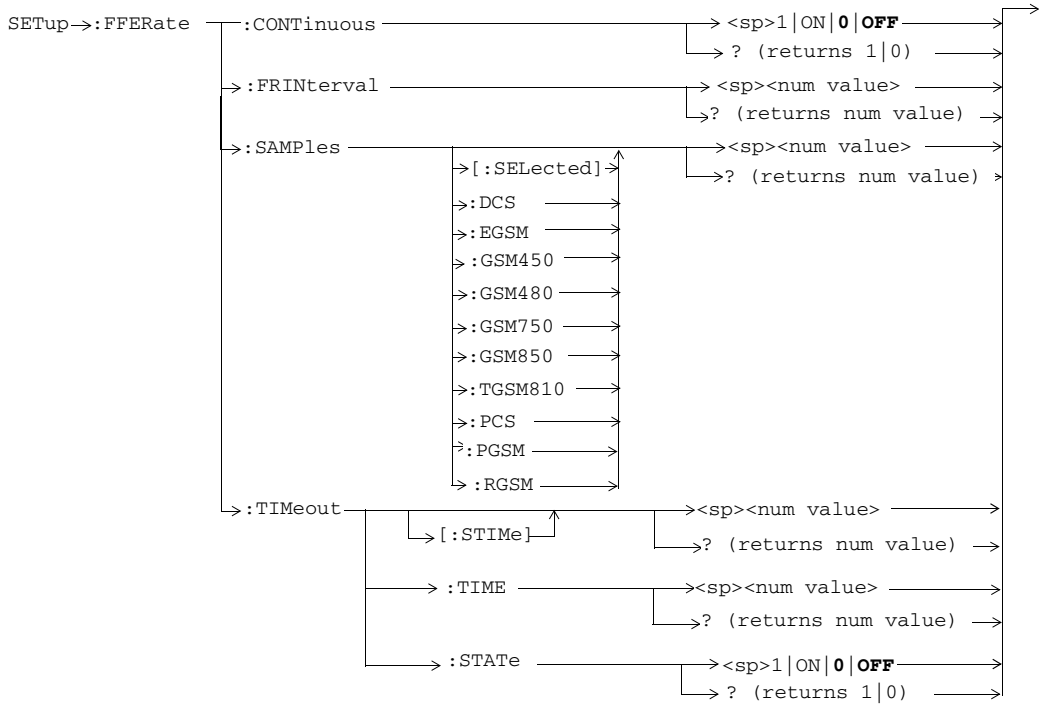


These commands are not applicable to GPRS.



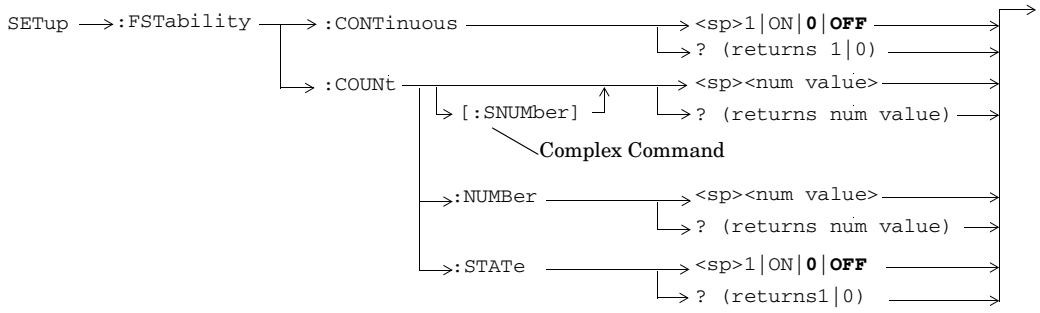
These commands are not applicable to GPRS.

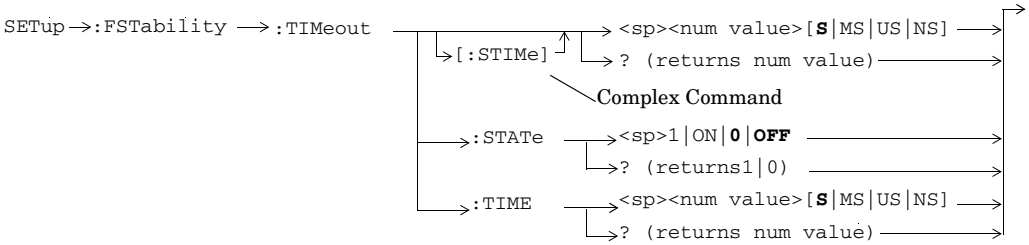
SETup:FFERate



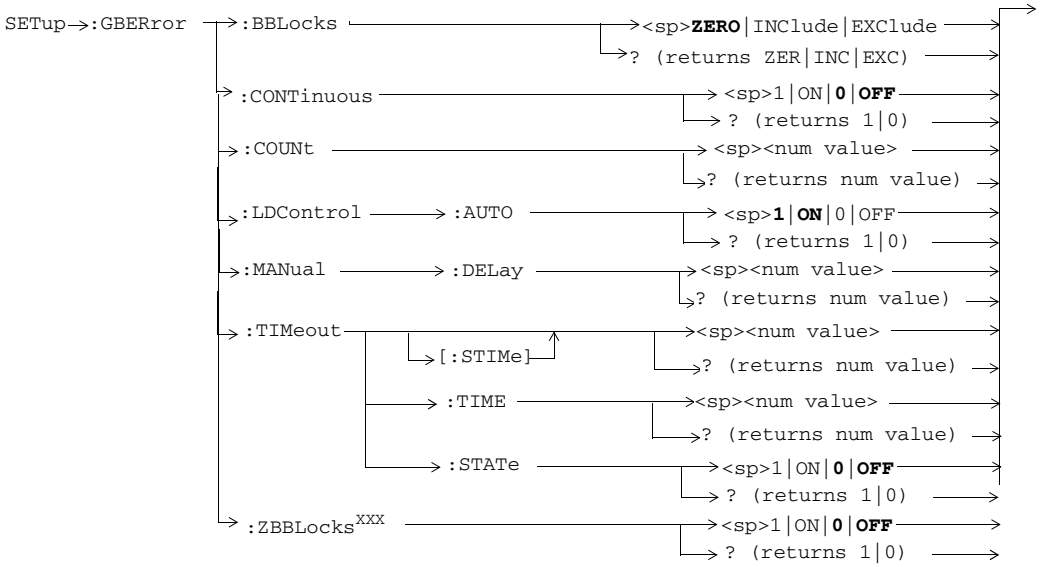
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

SETup:FSTability





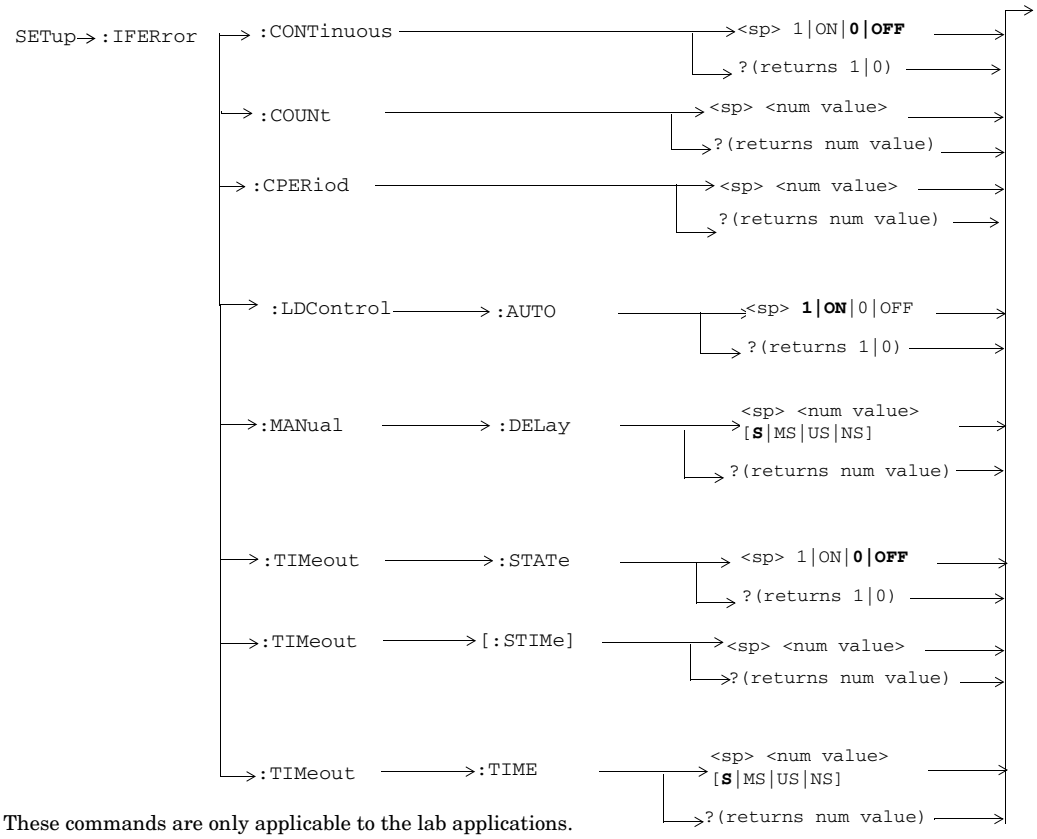
SETup:GBERror



These commands are not applicable to GSM.

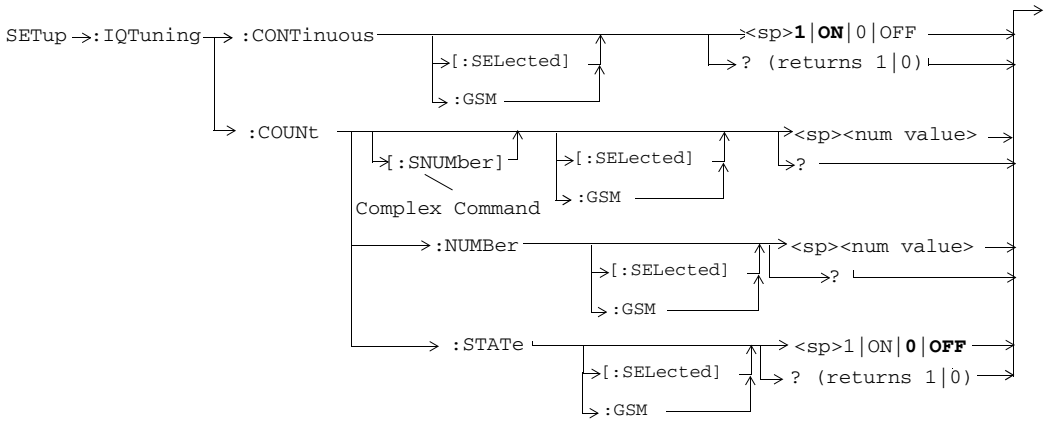
XXX This command is obsolete.

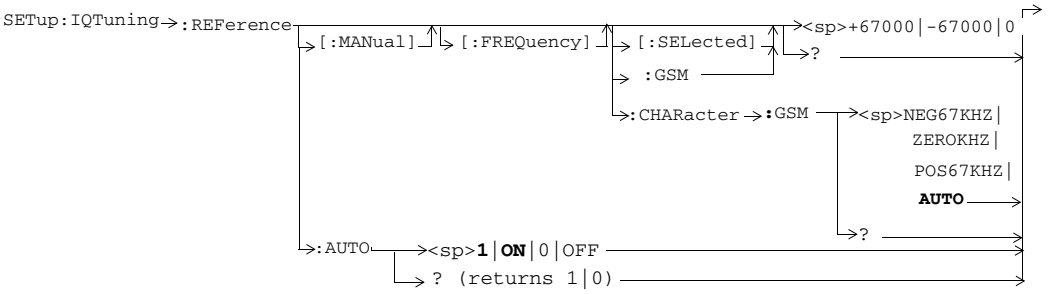
SETup:IFERror

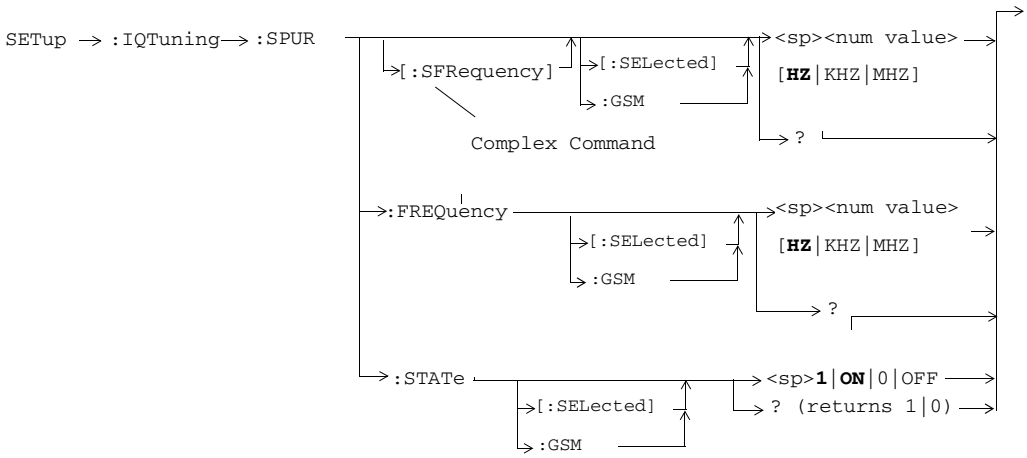


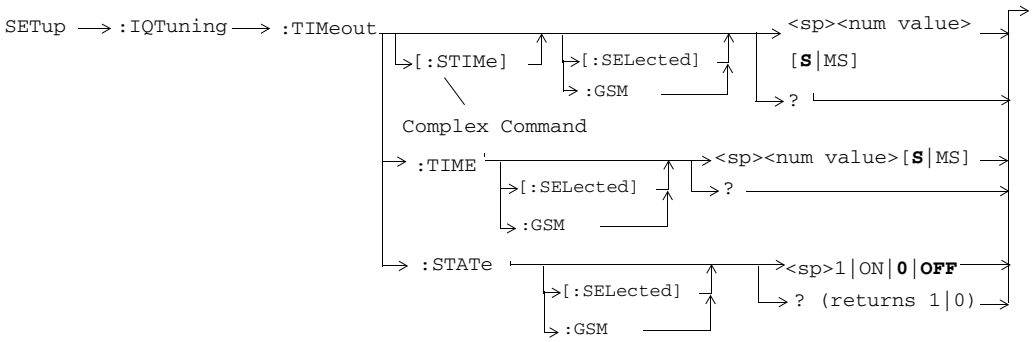
These commands are only applicable to the lab applications.

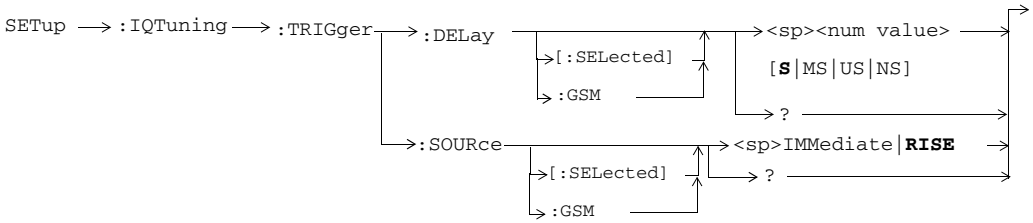
SETup:IQTuning



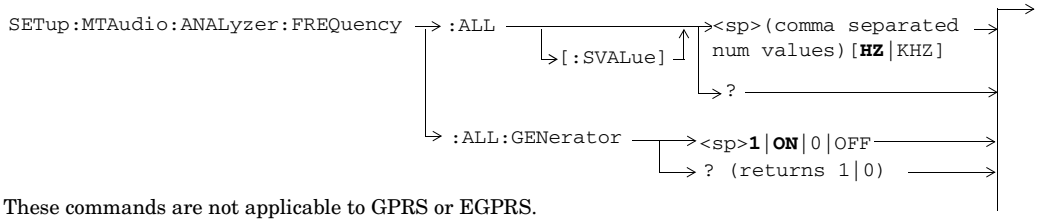

SETup:IQTuning
:REFerence
[:MANual]
[:FREQuency]
[:SELected]
<sp>+67000|-67000|0
?
:GSM
:CHARacter
:GSM
<sp>NEG67KHZ|
ZEROKHZ|
POS67KHZ|
AUTO
?
:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)


SETup
:IQTuning
:SPUR
[:SFRequency]
[:SELected]
:GSM
Complex Command
<sp><num value>
[HZ|KHZ|MHZ]
?
:FREQuency
[:SELected]
:GSM
<sp><num value>
[HZ|KHZ|MHZ]
?
:STATe
[:SELected]
:GSM
<sp>1|ON|0|OFF
? (returns 1|0)

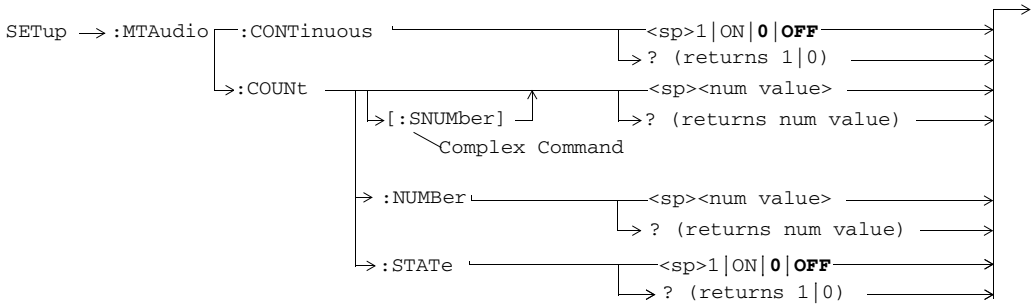

SETup
:IQTuning
:TIMeout
[:STIMe]
[:SELected]
:GSM
<sp><num value>
[S|MS]
?
Complex Command
:TIME
[:SELected]
:GSM
<sp><num value>[S|MS]
?
:STATe
[:SELected]
:GSM
<sp>1|ON|0|OFF
? (returns 1|0)


SETup
:IQTuning
:TRIGger
:DELay
[:SELected]
:GSM
<sp><num value>
[S|MS|US|NS]
?
:SOURce
[:SELected]
:GSM
<sp>IMMediate|RISE
?

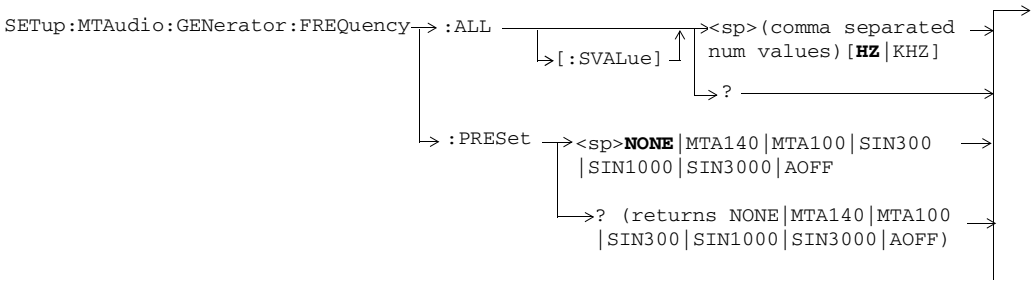
SETup:MTAudio



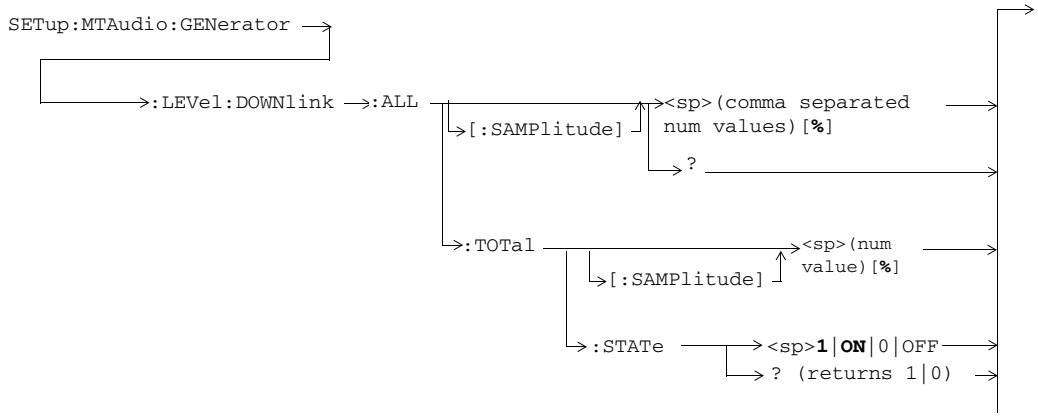
These commands are not applicable to GPRS or EGPRS.



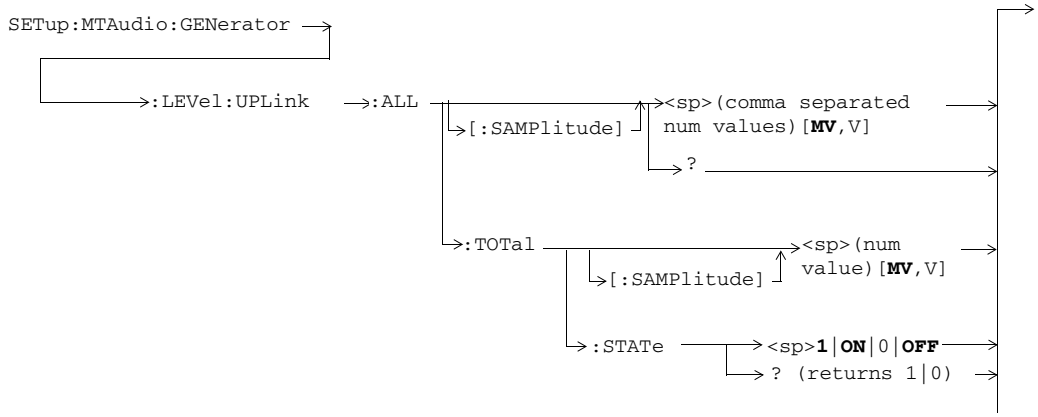
These commands are not applicable to GPRS or EGPRS.



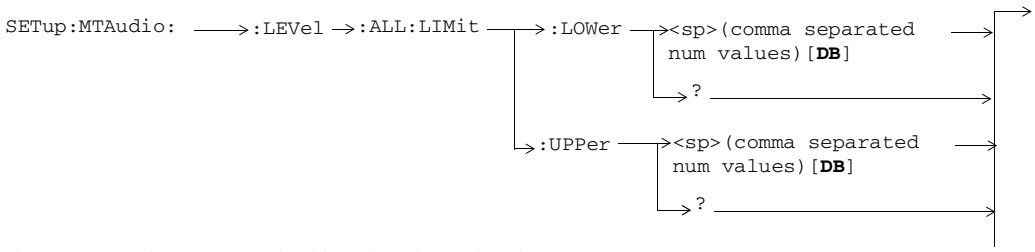
These commands are not applicable to GPRS or EGPRS.



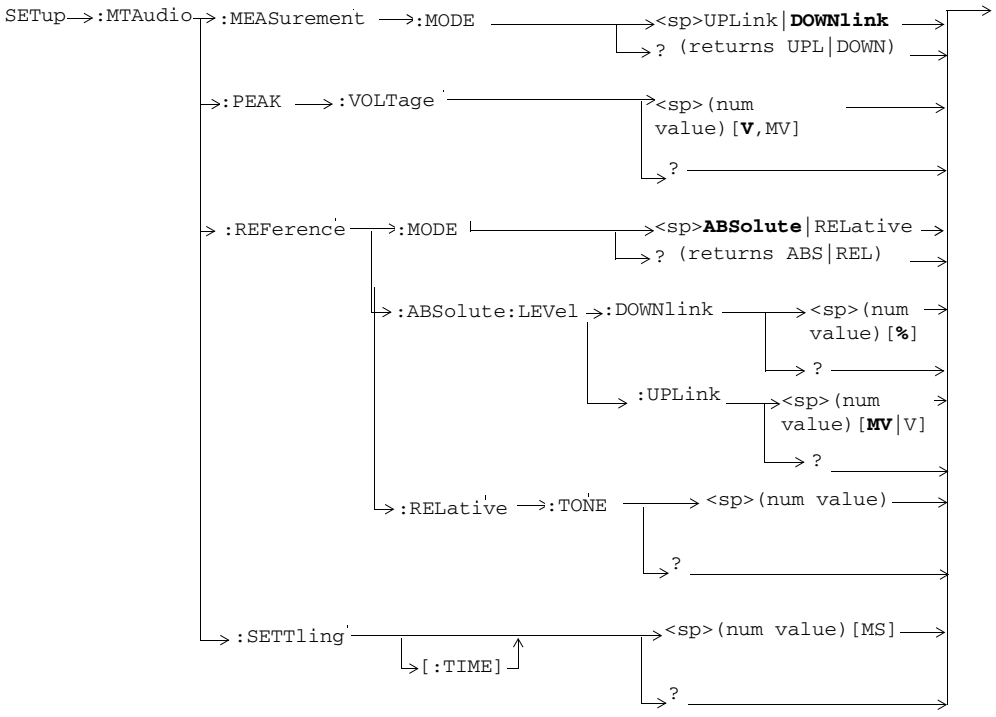
These commands are not applicable to GPRS or EGPRS.



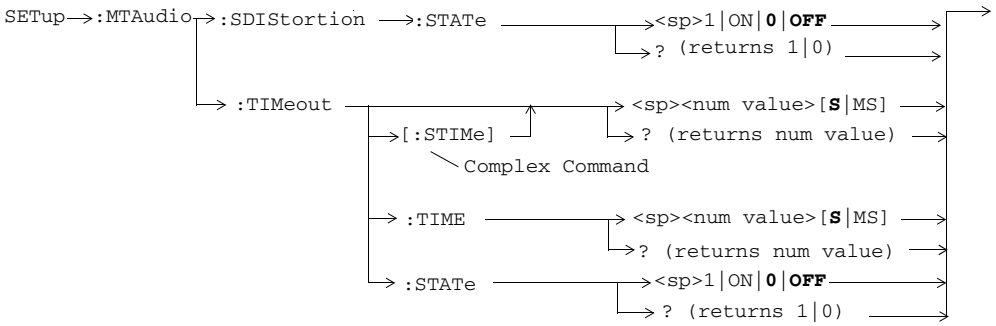
These commands are not applicable to GPRS or EGPRS.



These commands are not applicable to GPRS or EGPRS.

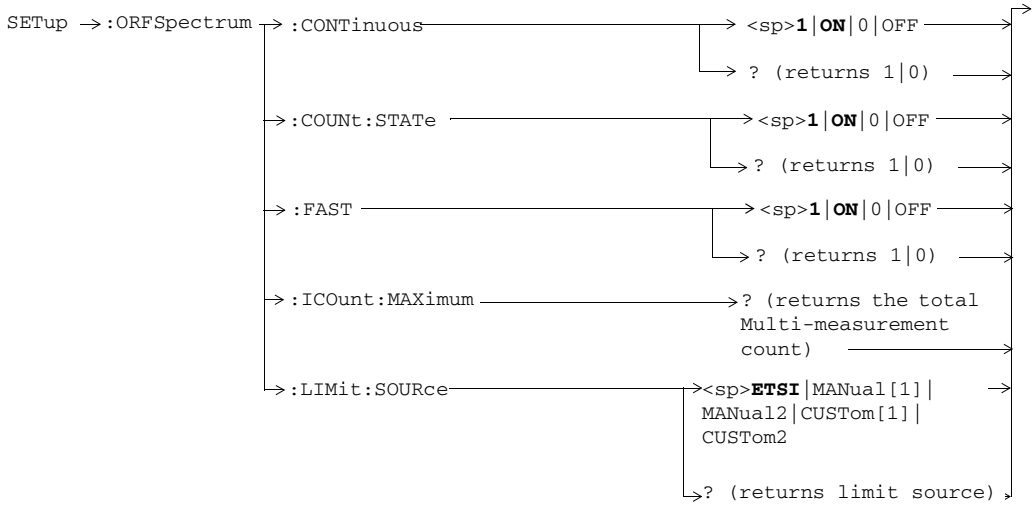


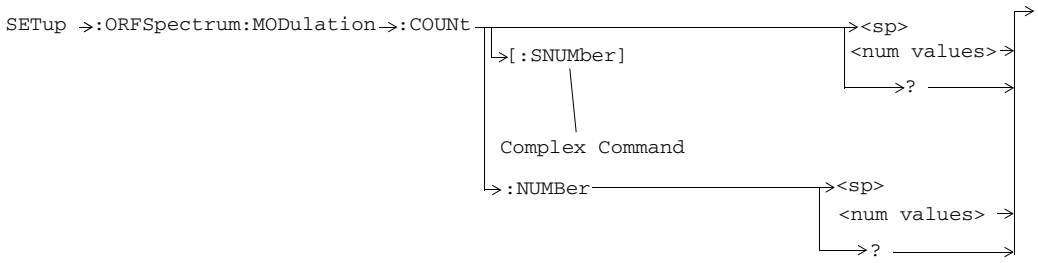
These commands are not applicable to GPRS.

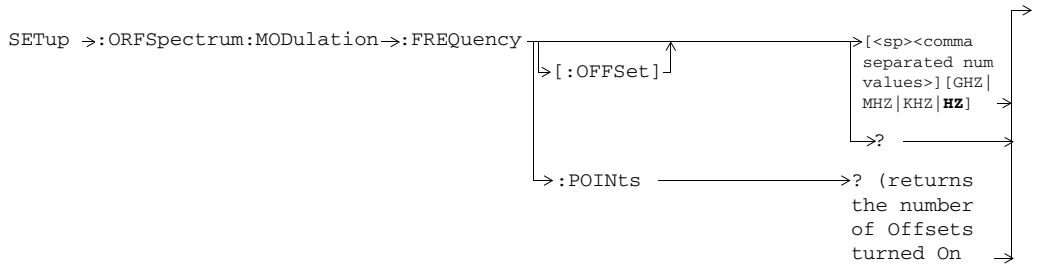


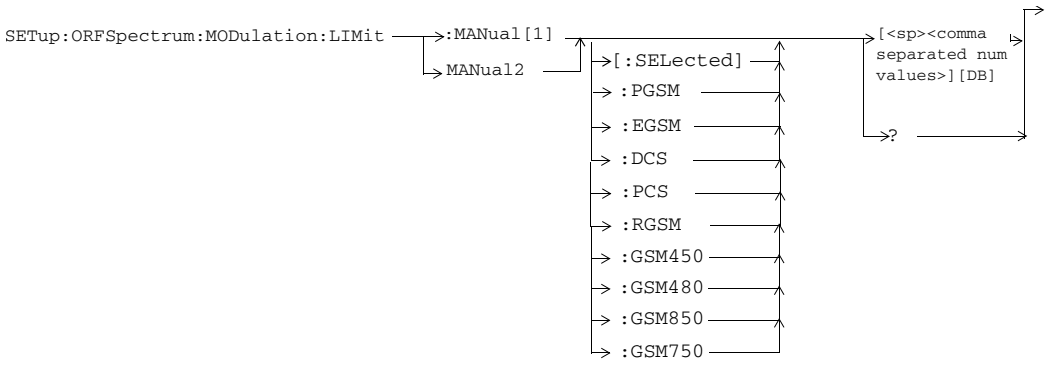
These commands are not applicable to GPRS and EGPRS.

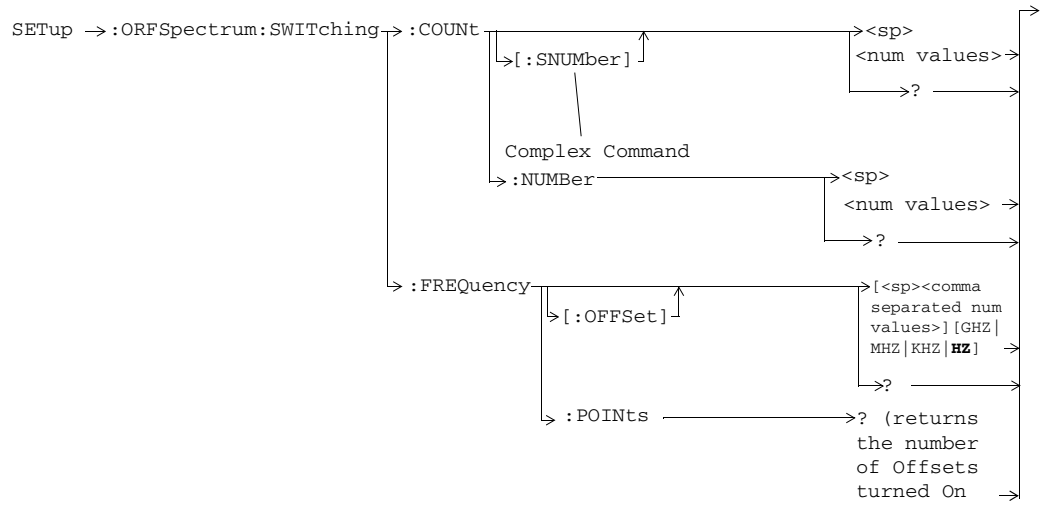
SETup:ORFSpectrum

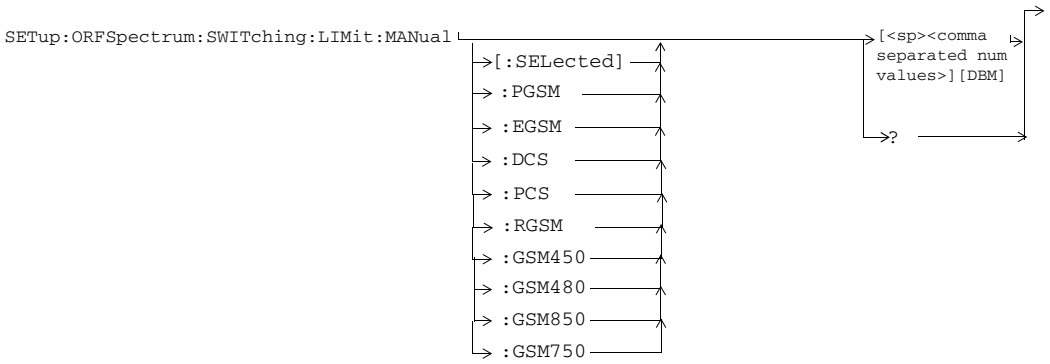


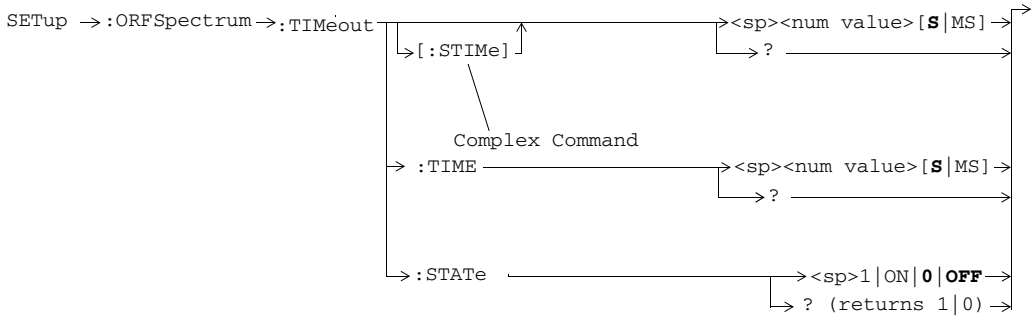

SETup
:ORFSpectrum:MODulation
:COUNt
[:SNUMber]
Complex Command
:NUMBer
<sp>
<num values>
?
<sp>
<num values>
?

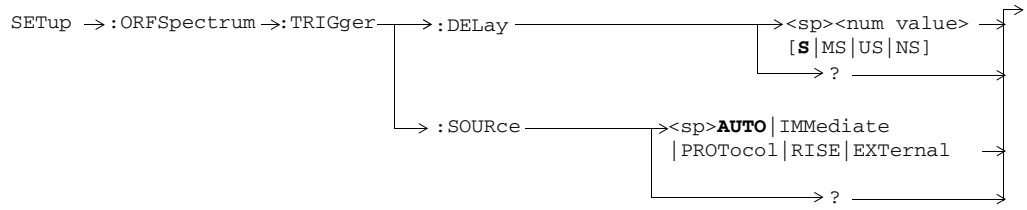

SETup
:ORFSpectrum:MODulation
:FREQuency
[:OFFSet]
:POINts
[<sp><comma separated num values>][GHZ|MHZ|KHZ|HZ]
?
? (returns the number of Offsets turned On


SETup:ORFSpectrum:MODulation:LIMit
:MANual[1]
MANual2
[:SELected]
:PGSM
:EGSM
:DCS
:PCS
:RGSM
:GSM450
:GSM480
:GSM850
:GSM750
[<sp><comma separated num values>][DB]
?

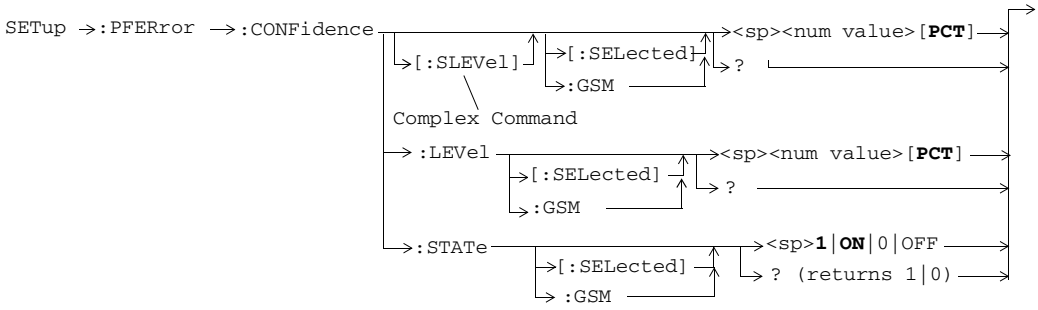

SETup
:ORFSpectrum:SWITching
:COUNt
[:SNUMber]
<sp>
<num values>
?
Complex Command
:NUMBer
<sp>
<num values>
?
:FREQuency
[:OFFSet]
[<sp><comma separated num values>][GHZ|MHZ|KHZ|HZ]
?
:POINts
? (returns the number of Offsets turned On

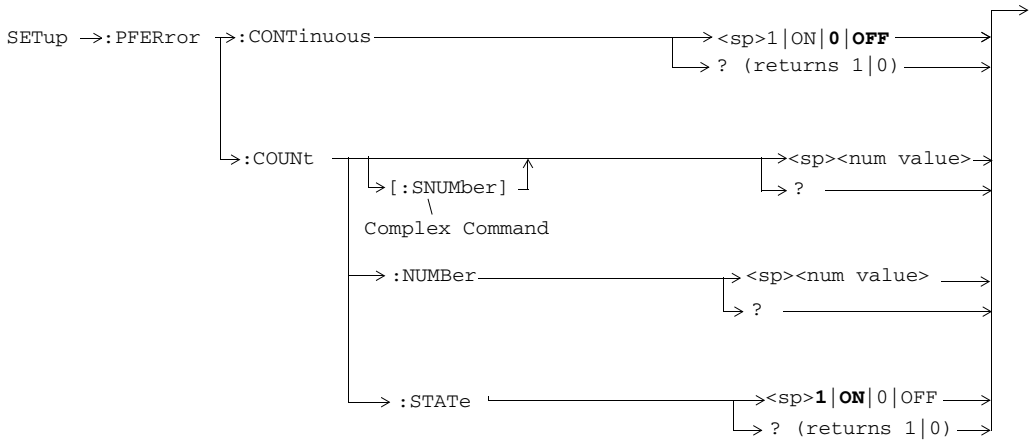

SETup:ORFSpectrum:SWITching:LIMit:MANual
[:SELected]
:PGSM
:EGSM
:DCS
:PCS
:RGSM
:GSM450
:GSM480
:GSM850
:GSM750
[<sp><comma separated num values>][DBM]
?

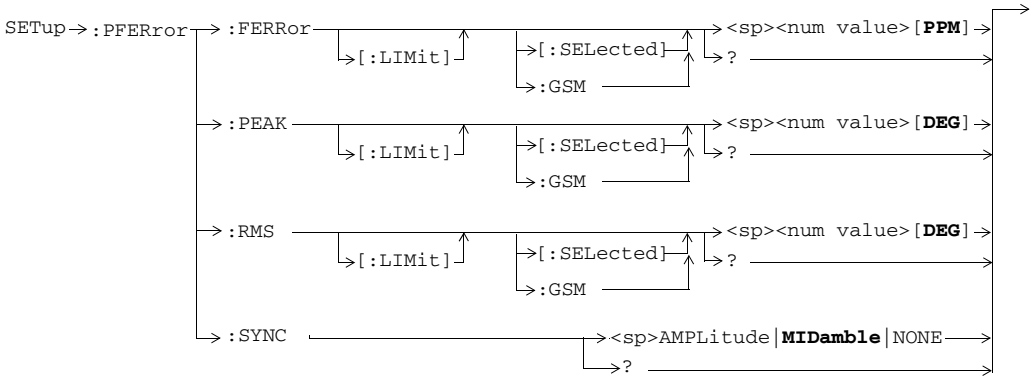

SETup
:ORFSpectrum
:TIMeout
[:STIMe]
<sp><num value>[S|MS]
?
Complex Command
:TIME
<sp><num value>[S|MS]
?
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)

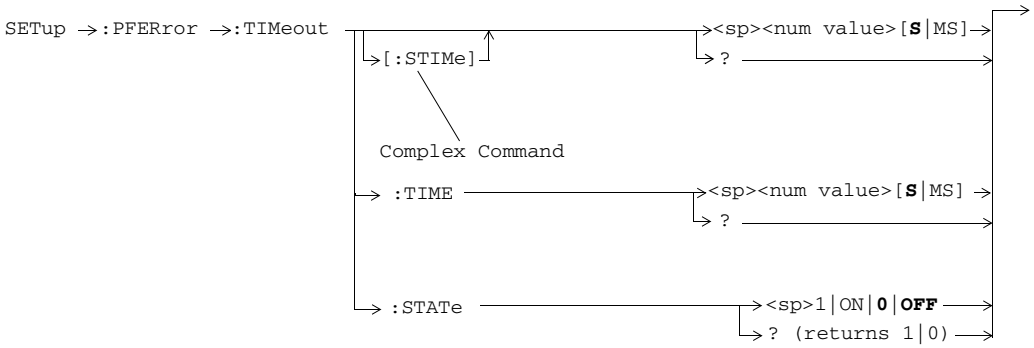

SETup
:ORFSpectrum
:TRIGger
:DELay
<sp><num value>
[S|MS|US|NS]
?
:SOURce
<sp>AUTO|IMMediate
|PROTocol|RISE|EXTernal
?

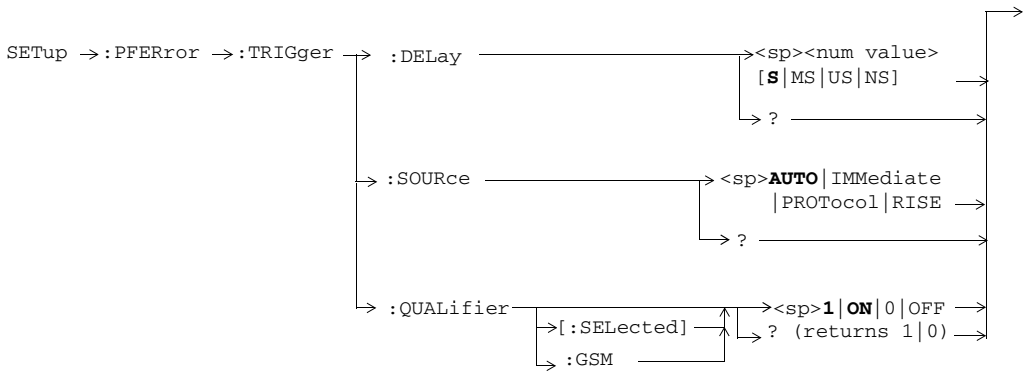
SETup:PFERror



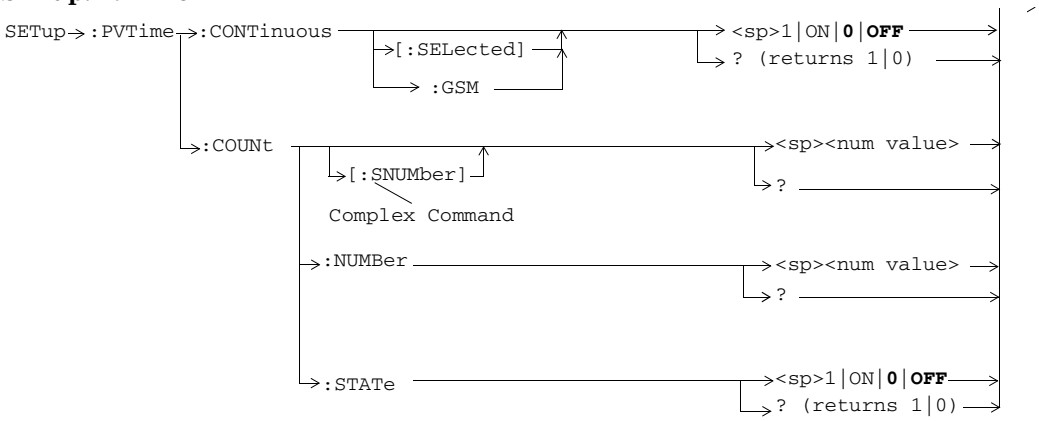


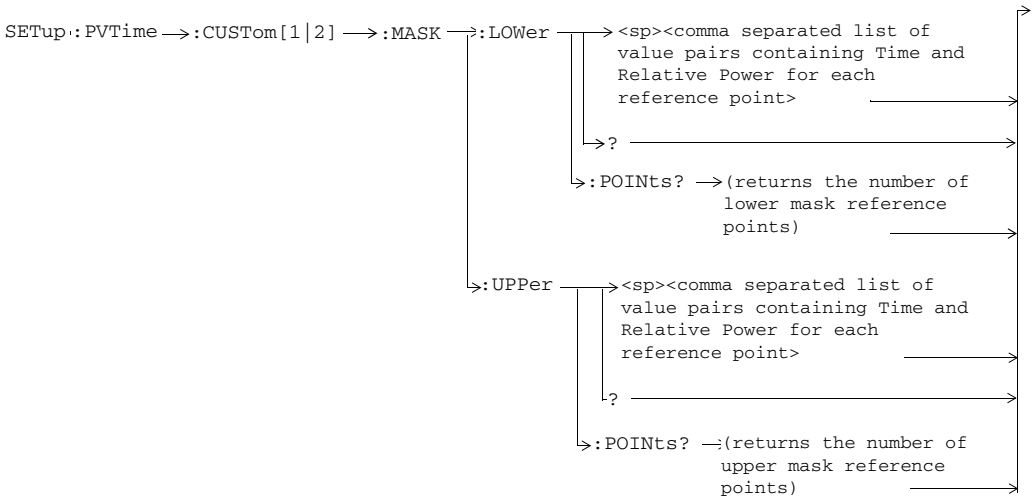

SETup
:PFERror
:FERRor
[:LIMit]
[:SELected]
:GSM
?
<sp><num value>[PPM]
:PEAK
[:LIMit]
[:SELected]
:GSM
?
<sp><num value>[DEG]
:RMS
[:LIMit]
[:SELected]
:GSM
?
<sp><num value>[DEG]
:SYNC
<sp>AMPLitude|MIDamble|NONE
?

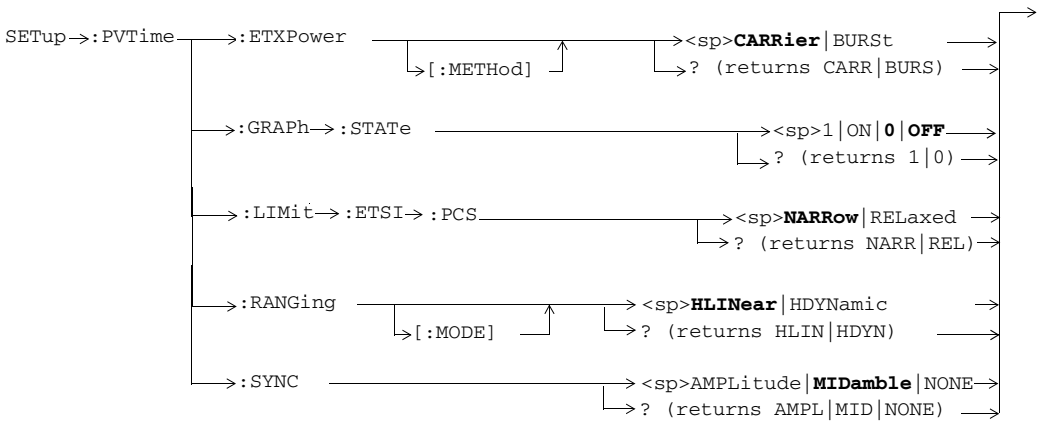

SETup
:PFERror
:TIMeout
[:STIMe]
?
<sp><num value>[S|MS]
Complex Command
:TIME
?
<sp><num value>[S|MS]
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)

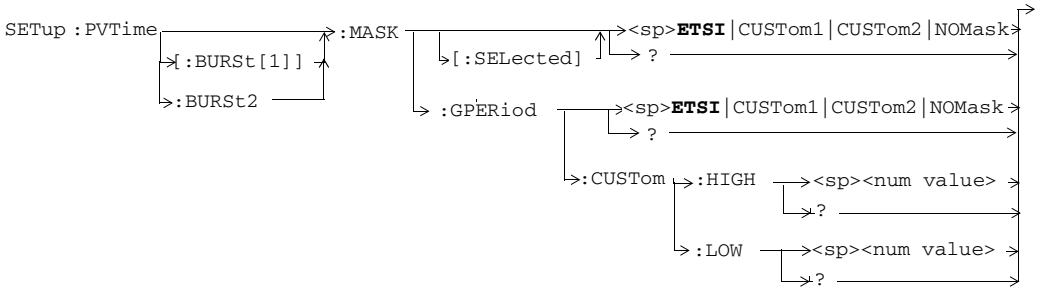

SETup
:PFERror
:TRIGger
:DELay
<sp><num value>
[S|MS|US|NS]
?
:SOURce
<sp>AUTO|IMMediate
|PROTocol|RISE
?
:QUALifier
[:SELected]
:GSM
<sp>1|ON|0|OFF
? (returns 1|0)

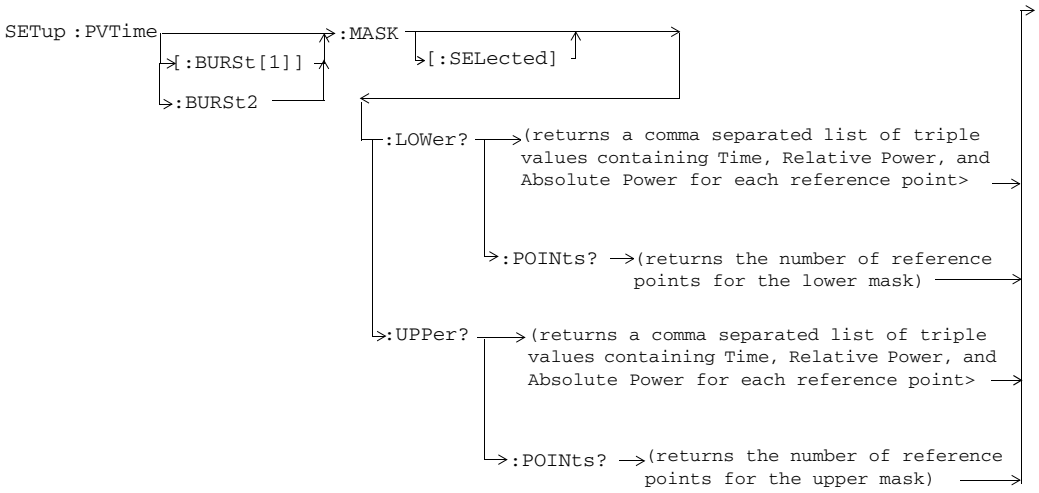
SETup:PVTime

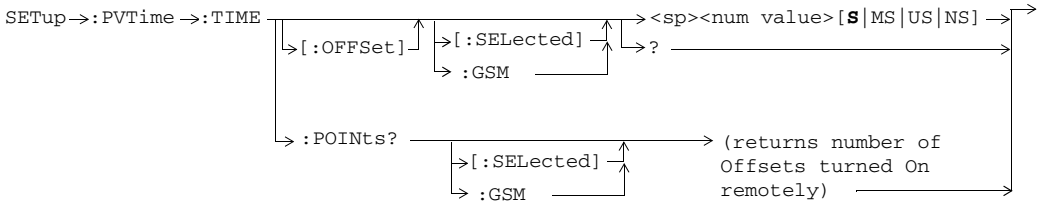




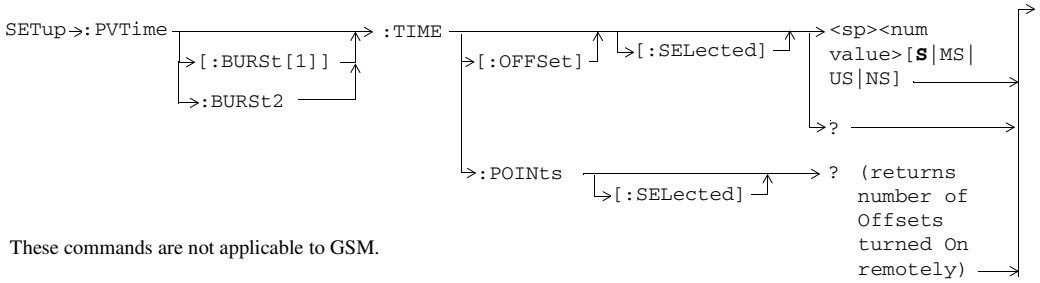

SETup
:PVTime
:ETXPower
[:METHod]
<sp>CARRier|BURSt
? (returns CARR|BURS)
:GRAPh
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:LIMit
:ETSI
:PCS
<sp>NARRow|RELaxed
? (returns NARR|REL)
:RANGing
[:MODE]
<sp>HLINear|HDYNamic
? (returns HLIN|HDYN)
:SYNC
<sp>AMPLitude|MIDamble|NONE
? (returns AMPL|MID|NONE)


SETup : PVTime
[:BURSt[1]]
:BURSt2
:MASK
[:SELected]
<sp>ETSI | CUSTom1 | CUSTom2 | NOMask
?
:GPERiod
<sp>ETSI | CUSTom1 | CUSTom2 | NOMask
?
:CUSTom
:HIGH
<sp><num value>
?
:LOW
<sp><num value>
?

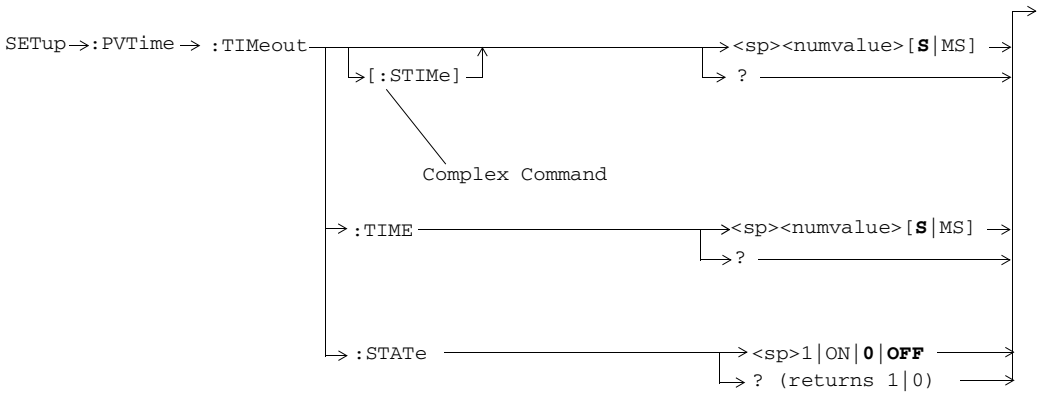

SETup : PVTime
[:BURSt[1]]
:BURSt2
:MASK
[:SELected]
:LOWer?
(returns a comma separated list of triple values containing Time, Relative Power, and Absolute Power for each reference point>
:POINts?
(returns the number of reference points for the lower mask)
:UPPer?
(returns a comma separated list of triple values containing Time, Relative Power, and Absolute Power for each reference point>
:POINts?
(returns the number of reference points for the upper mask)

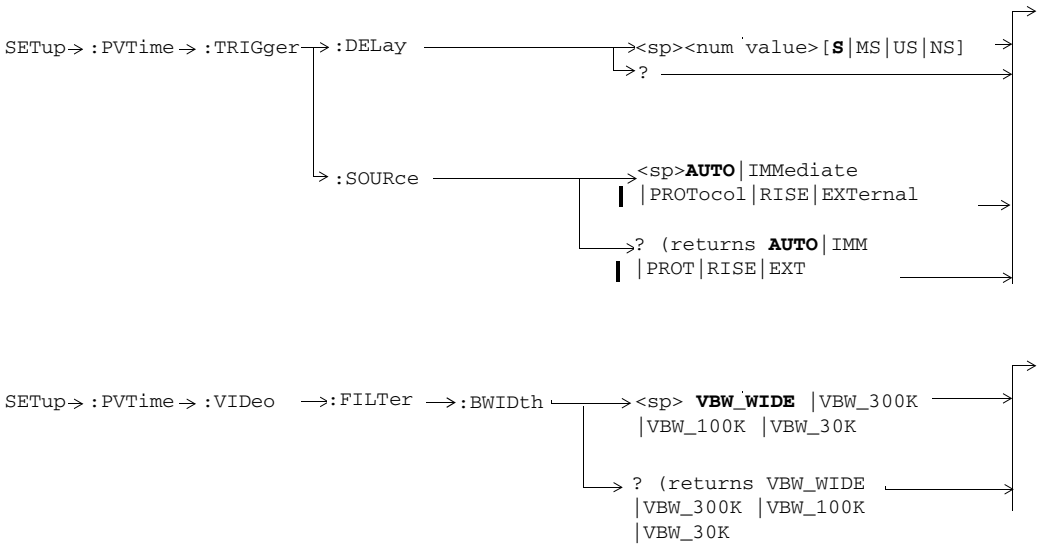


These commands are not applicable to GPRS.



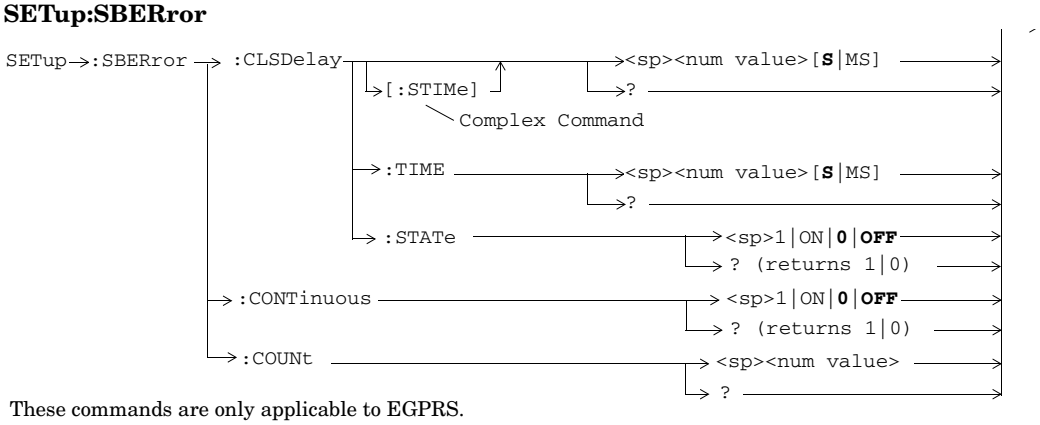
These commands are not applicable to GSM.



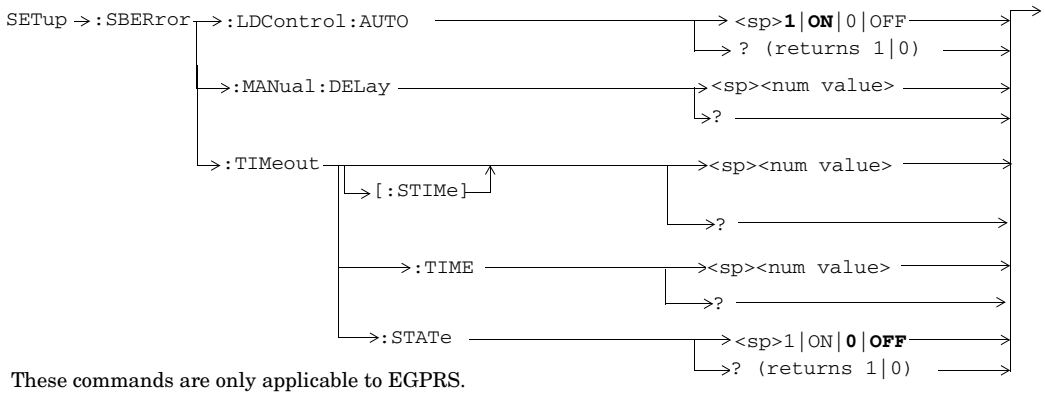

SETup
:PVTime
:TRIGger
:DELay
<sp><num value>[S|MS|US|NS]
?
:SOURce
<sp>AUTO|IMMediate
|PROTocol|RISE|EXTernal
? (returns AUTO|IMM
|PROT|RISE|EXT

SETup
:PVTime
:VIDeo
:FILTer
:BWIDth
<sp> VBW_WIDE |VBW_300K
|VBW_100K |VBW_30K
? (returns VBW_WIDE
|VBW_300K |VBW_100K
|VBW_30K

SETup:SBERror

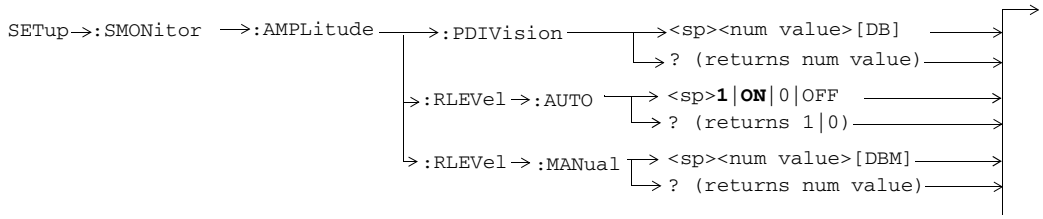


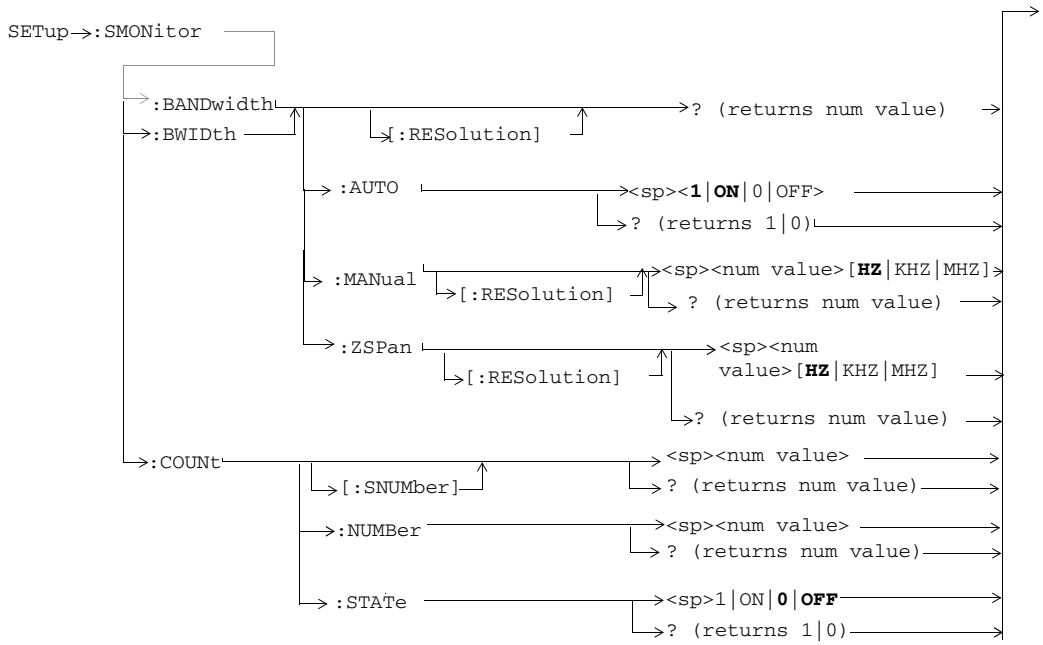
These commands are only applicable to EGPRS.

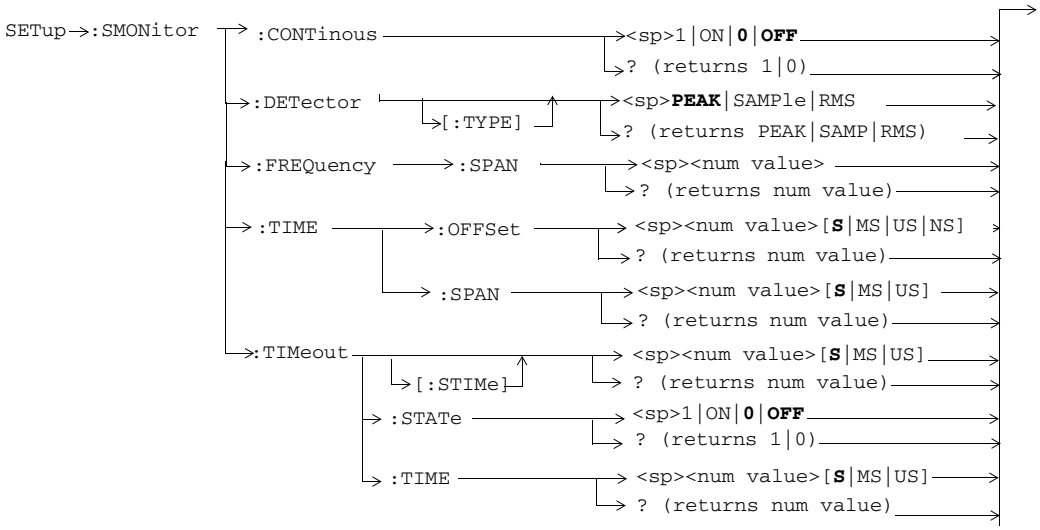


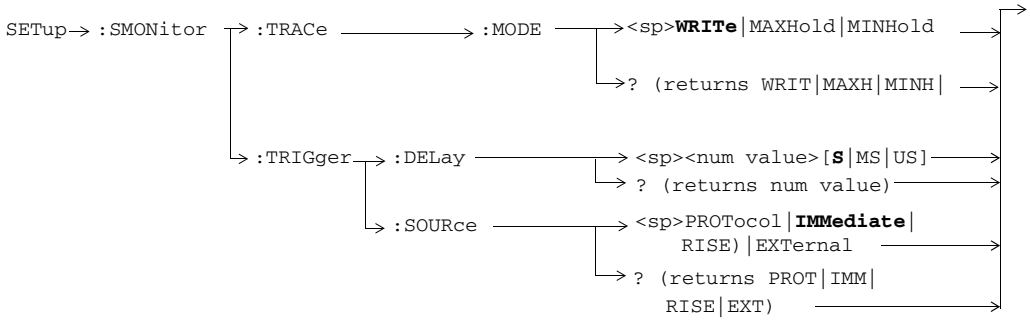
These commands are only applicable to EGPRS.

SETup:SMONitor

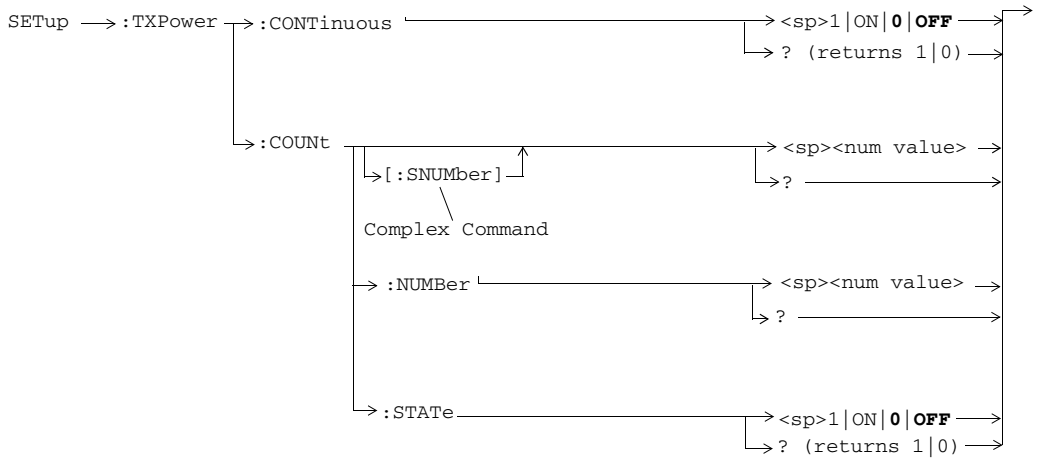


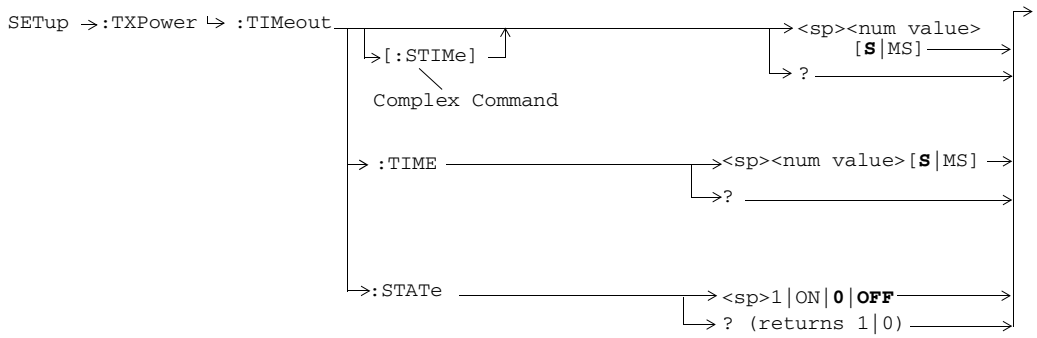


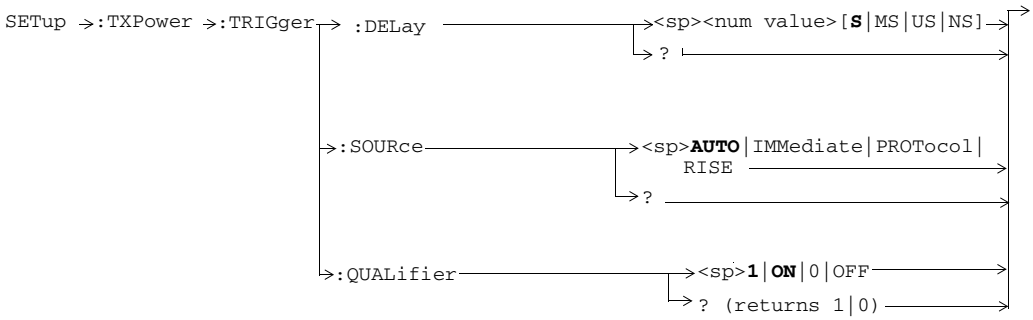

SETup→:SMONitor
:CONTinous
<sp>1|ON|0|OFF
? (returns 1|0)
:DETector
[:TYPE]
<sp>PEAK|SAMPle|RMS
? (returns PEAK|SAMP|RMS)
:FREQuency
:SPAN
<sp><num value>
? (returns num value)
:TIME
:OFFSet
<sp><num value>[S|MS|US|NS]
? (returns num value)
:SPAN
<sp><num value>[S|MS|US]
? (returns num value)
:TIMeout
[:STIMe]
<sp><num value>[S|MS|US]
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:TIME
<sp><num value>[S|MS|US]
? (returns num value)


SETup→ :SMONitor
:TRACe
:MODE
<sp>WRITe|MAXHold|MINHold
? (returns WRIT|MAXH|MINH|
:TRIGger
:DELay
<sp><num value>[S|MS|US]
? (returns num value)
:SOURce
<sp>PROTocol|IMMediate|
RISE)|EXTernal
? (returns PROT|IMM|
RISE|EXT)

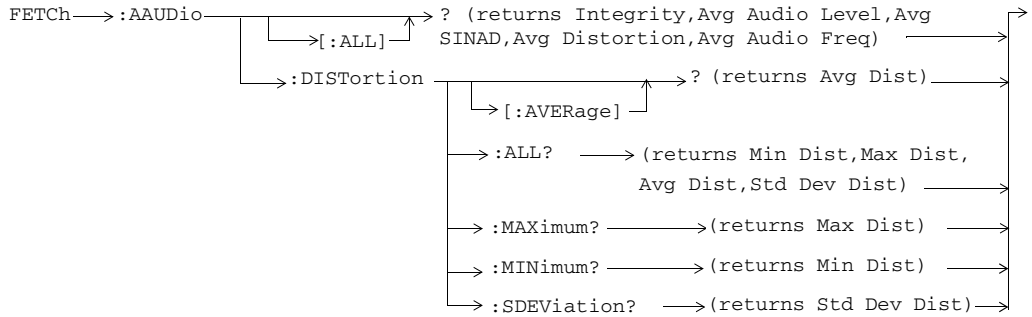
SETup:TXPower



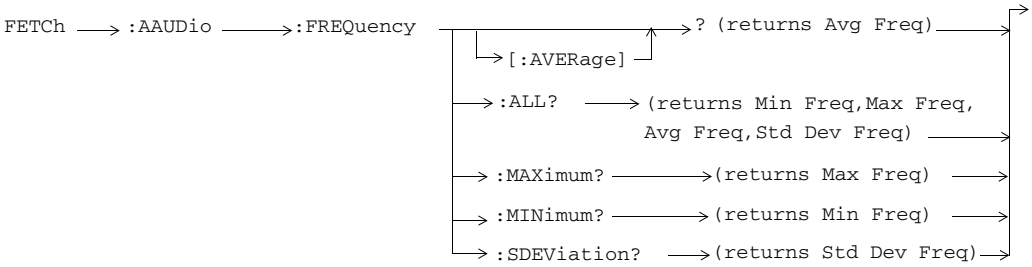



SETup
:TXPower
:TRIGger
:DELay
<sp><num value>[S|MS|US|NS]
?
:SOURce
<sp>AUTO|IMMediate|PROTocol|
RISE
?
:QUALifier
<sp>1|ON|0|OFF
? (returns 1|0)

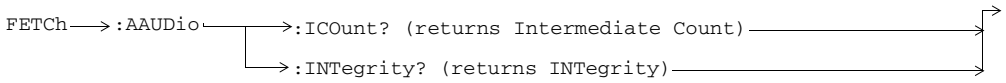
FETCh:AAUDio



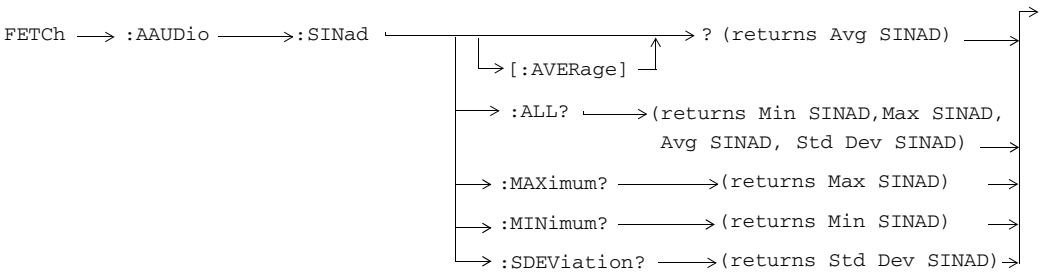
These commands are not applicable to GPRS.



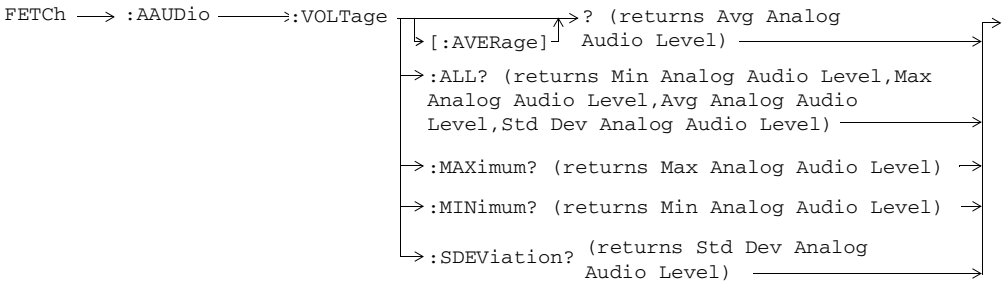
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

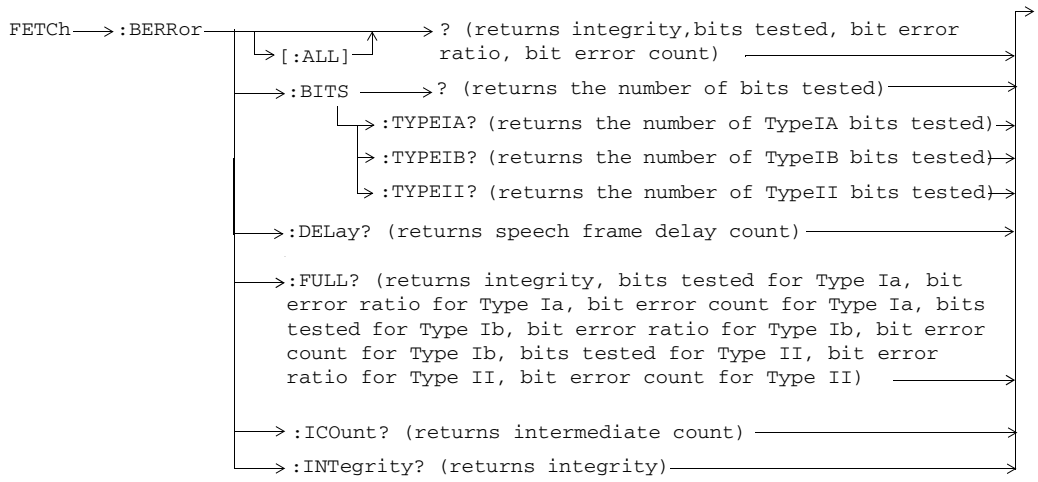


These commands are not applicable to GPRS.

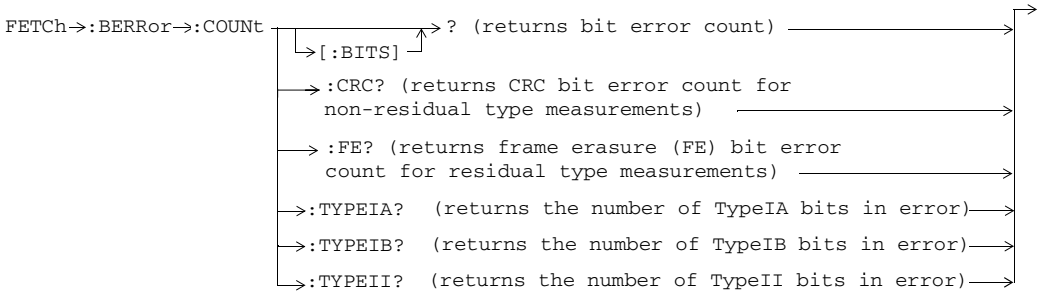


These commands are not applicable to GPRS.

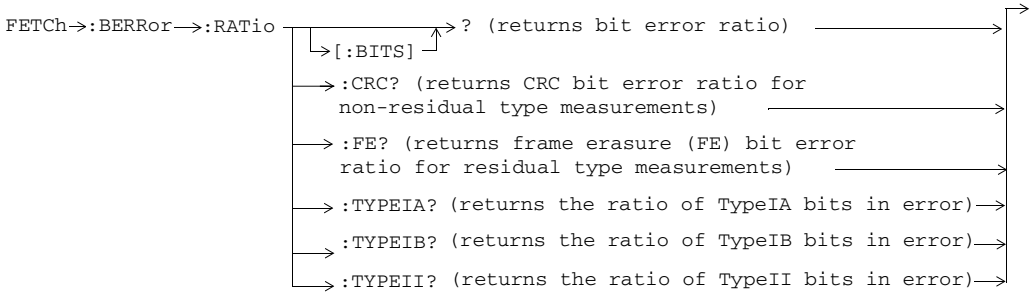
FETCh:BERRor



These commands are not applicable to GPRS or EGPRS.

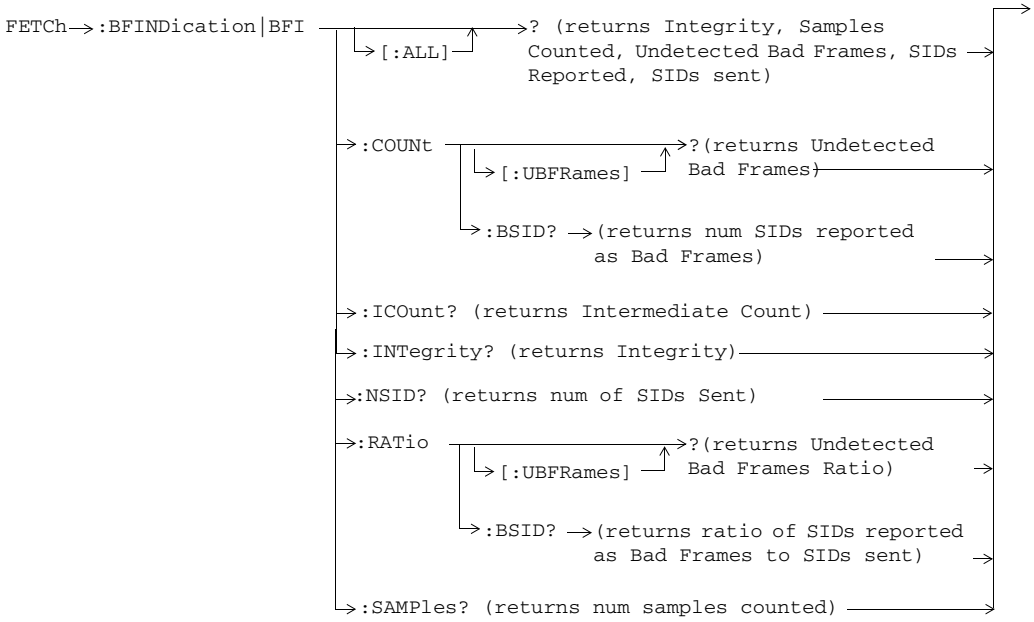


These commands are not applicable to GPRS or EGPRS.



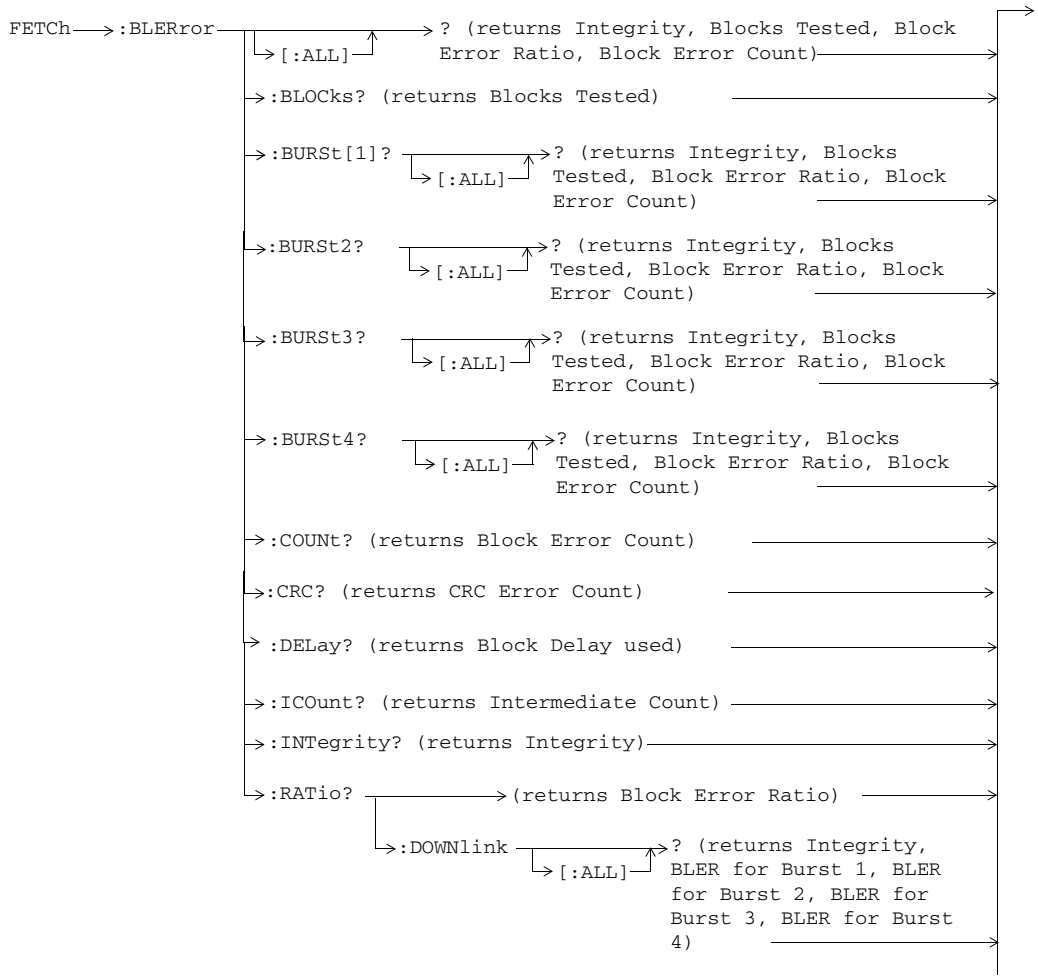
These commands are not applicable to GPRS or EGPRS.

FETCh:<BFINdication|BFI>

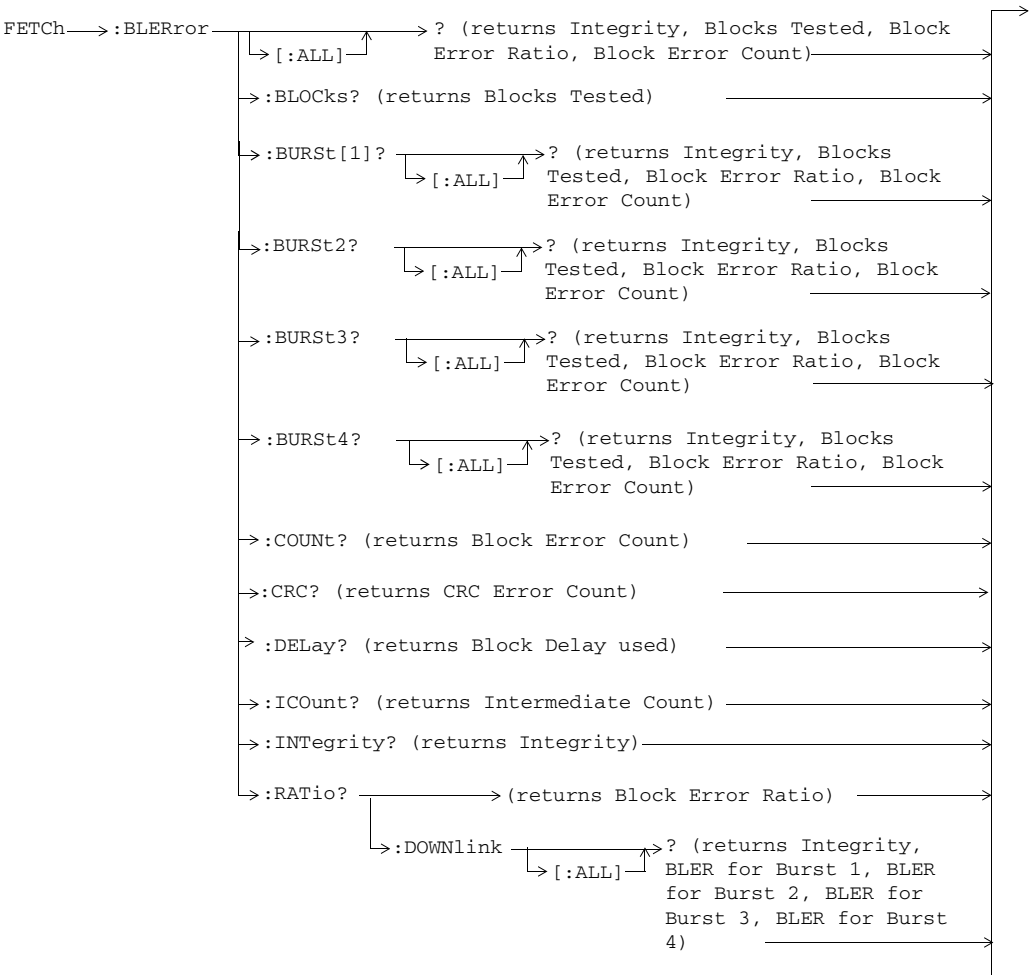


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

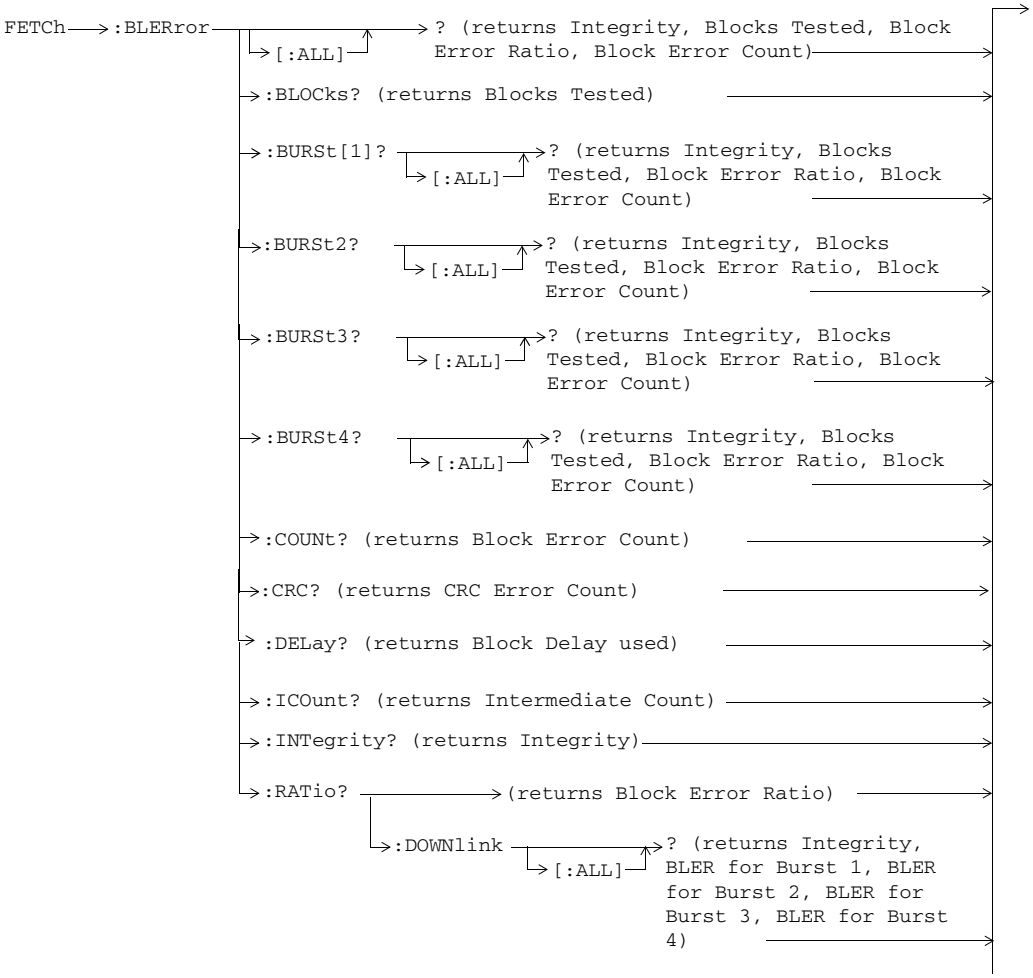
FETCh:BLERror



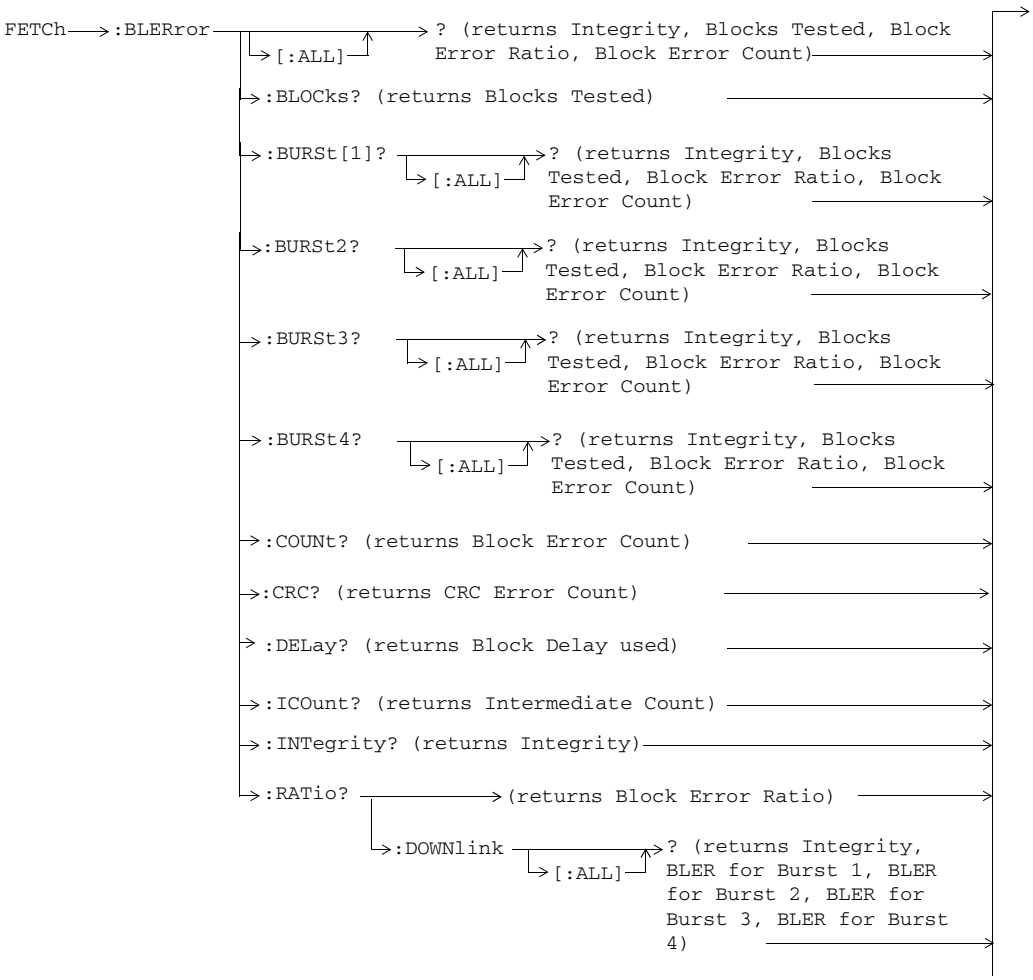
These commands are not applicable to GSM.



These commands are not applicable to GSM.

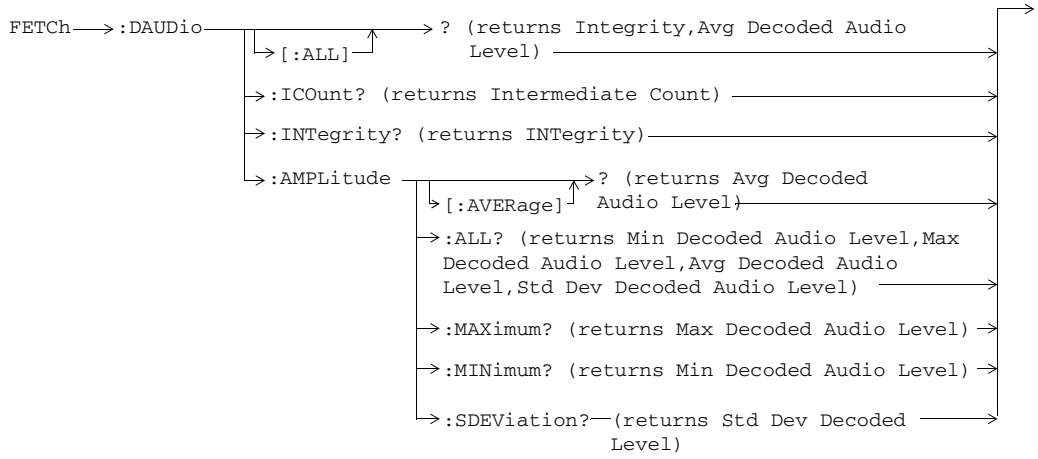


These commands are not applicable to GSM.



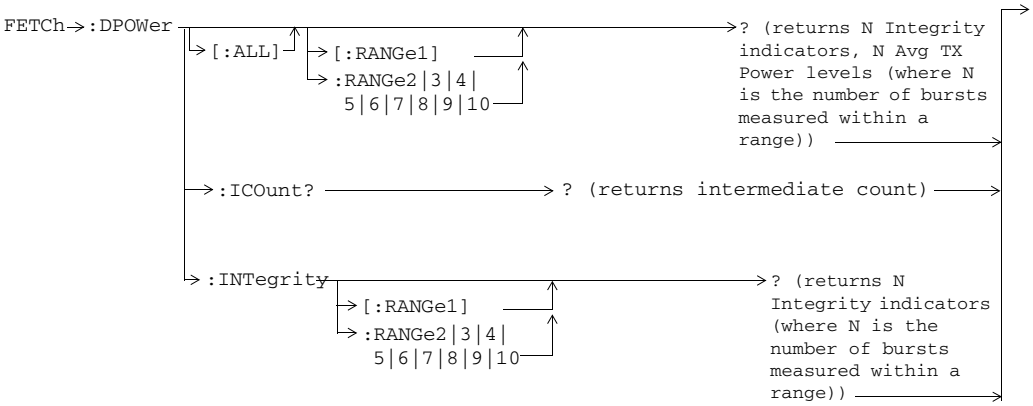
These commands are not applicable to GSM.

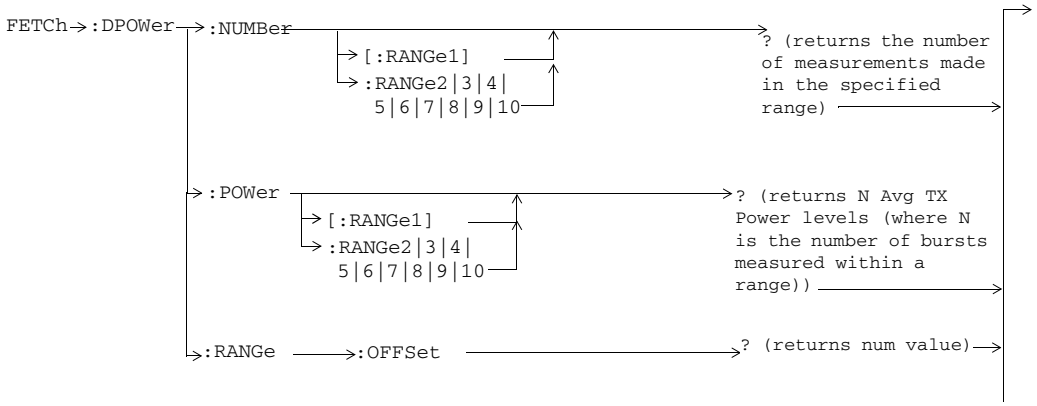
FETCh:DAUDio



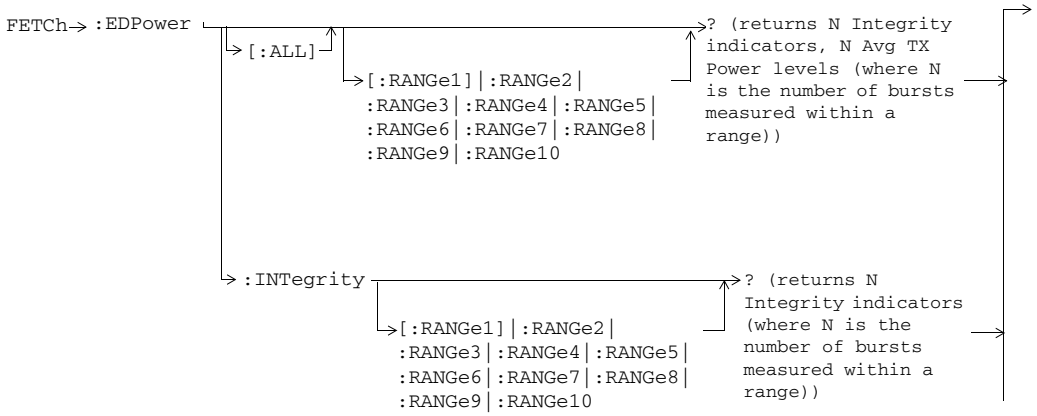
These commands are not applicable to GPRS.

FETCh:DPOWer

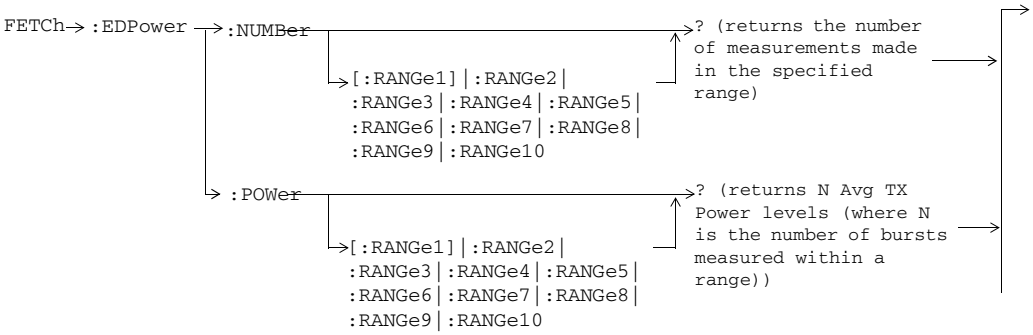




FETCh:EDPower

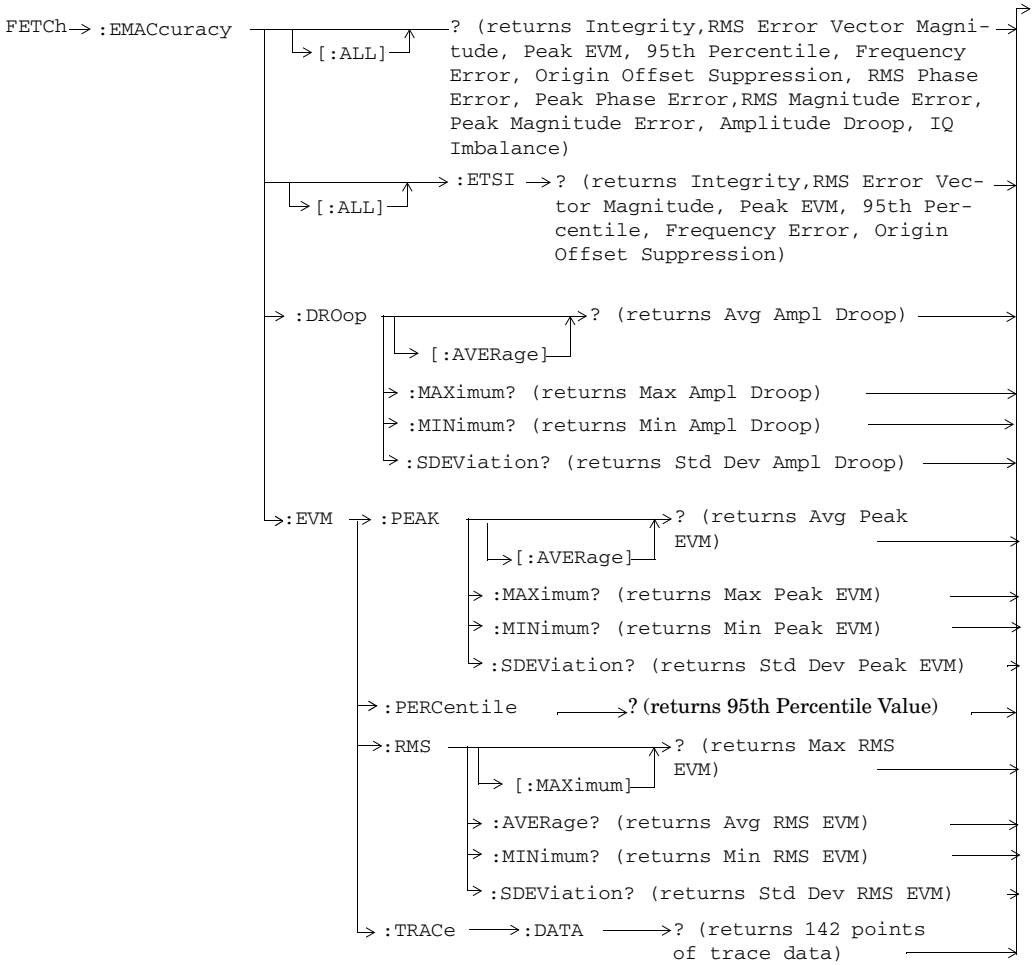


These commands are only applicable to EGPRS.

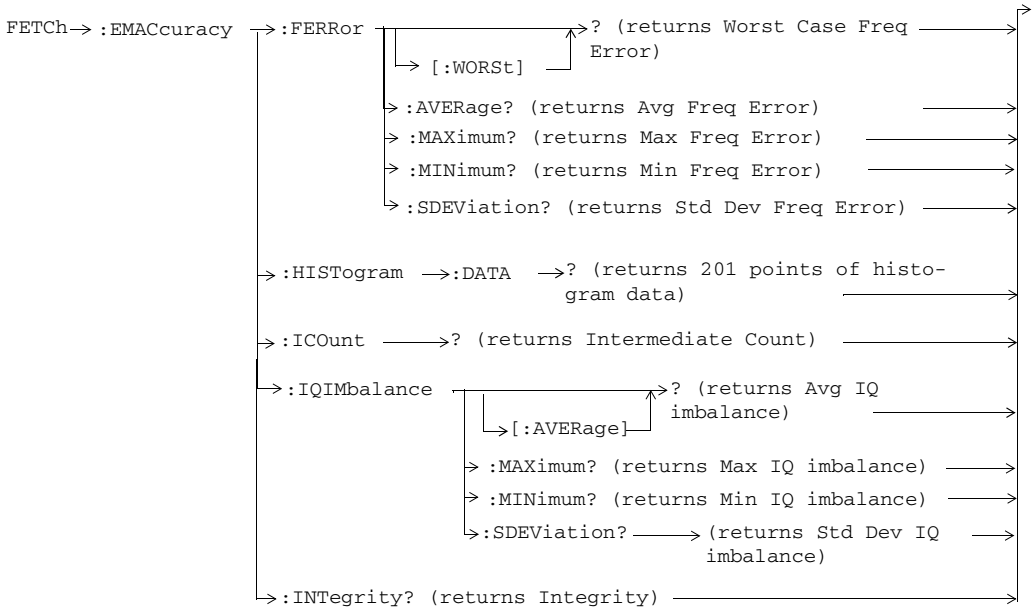


These commands are only applicable to EGPRS.

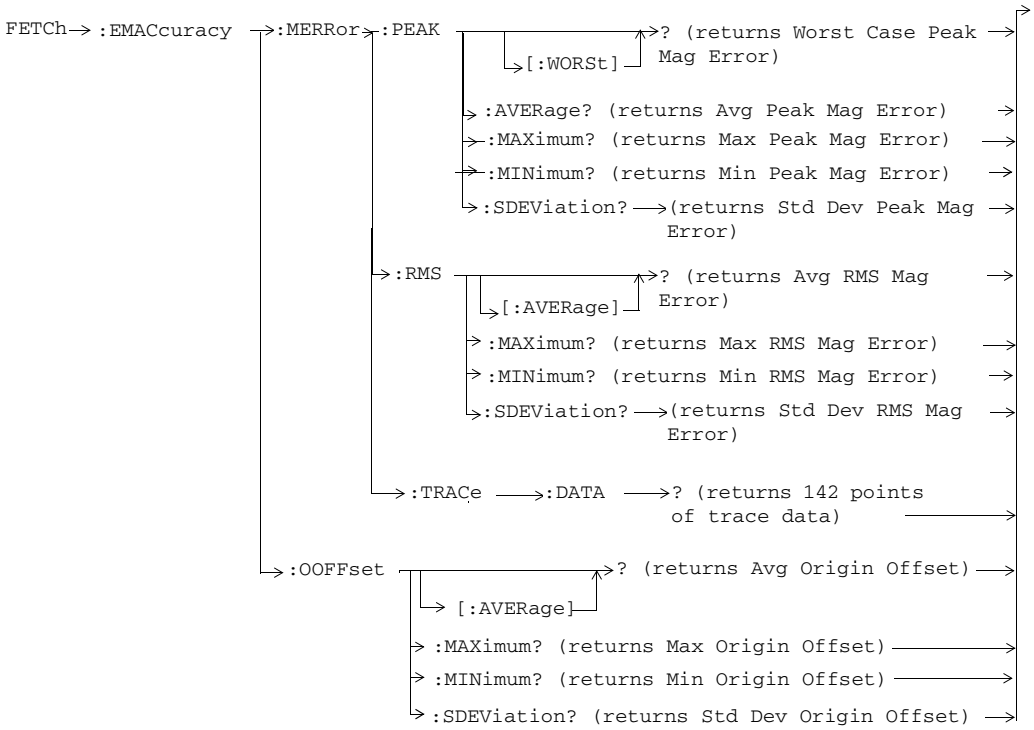
FETCh:EMACcuracy



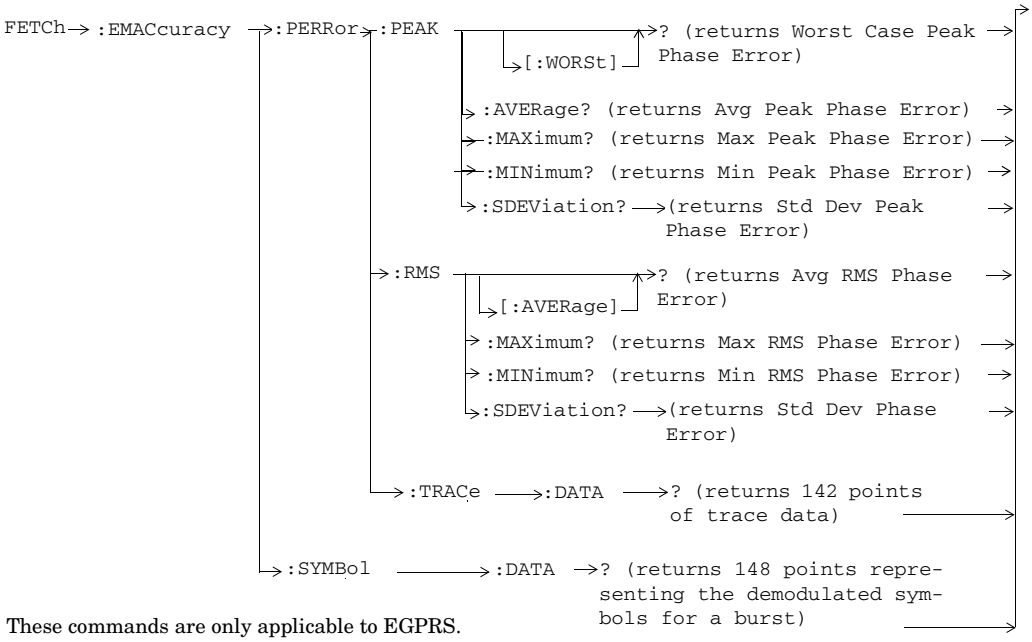
These commands are only applicable to EGPRS.



These commands are only applicable to EGPRS.

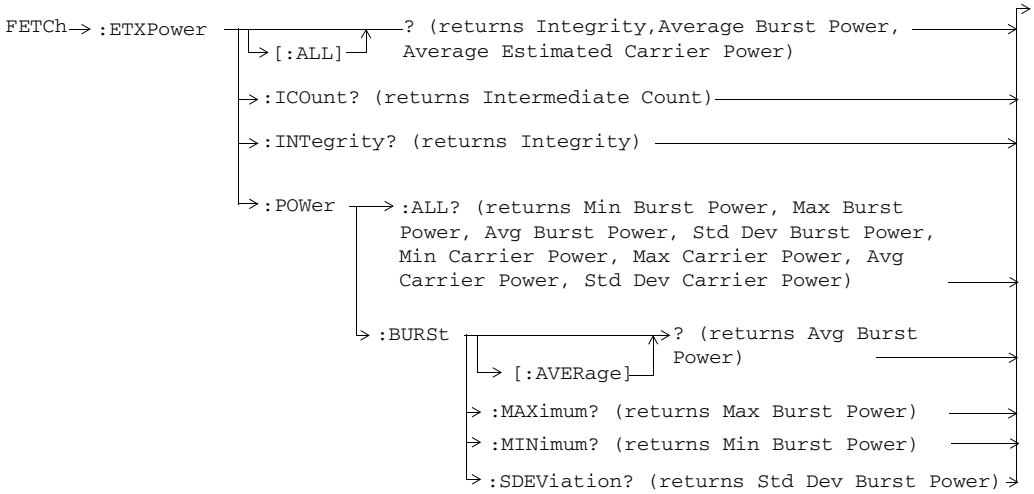


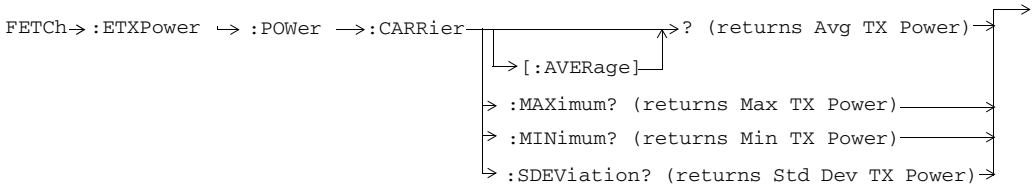
These commands are only applicable to EGPRS.



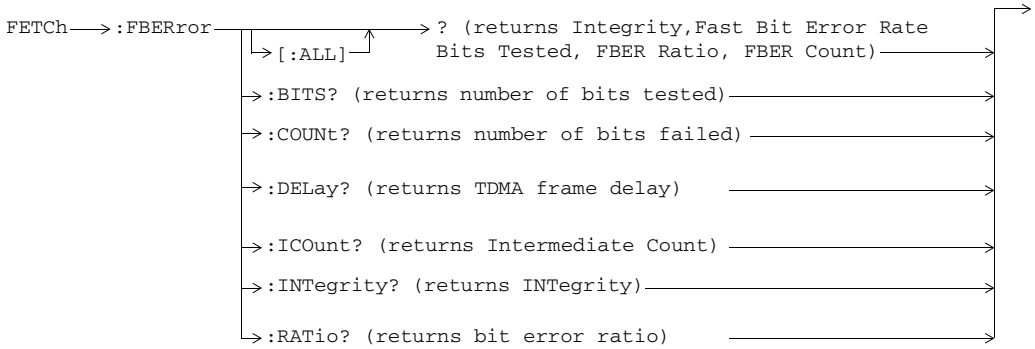
These commands are only applicable to EGPRS.

FETCh:ETXPower



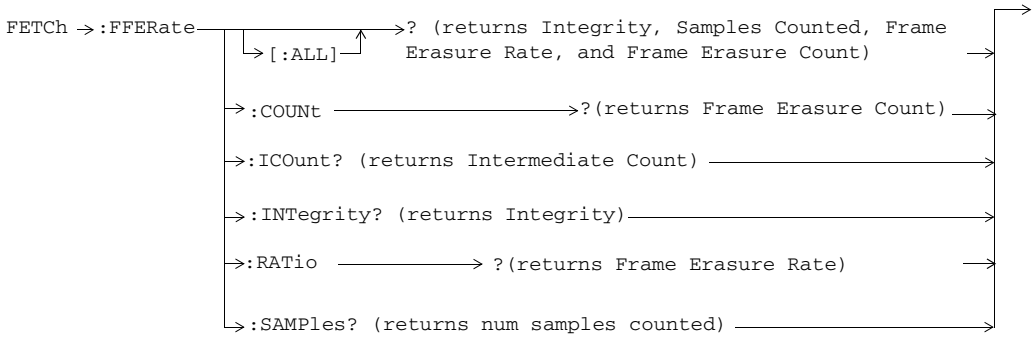


FETCh:FBERror



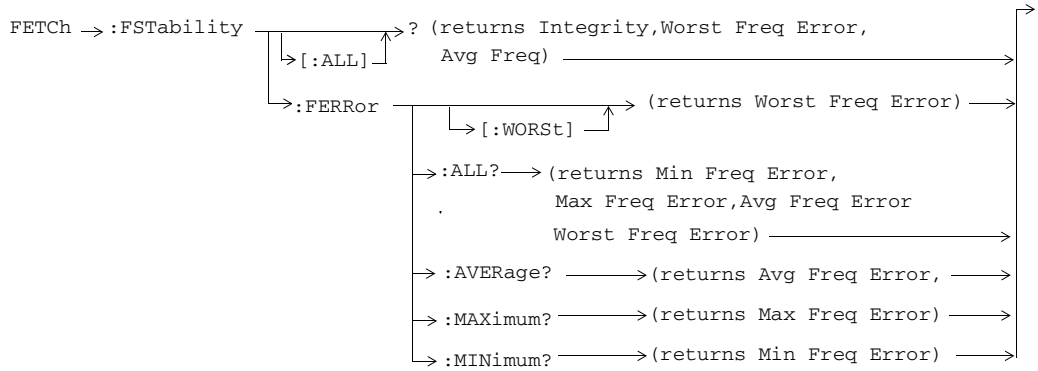
These commands are not applicable to GPRS.

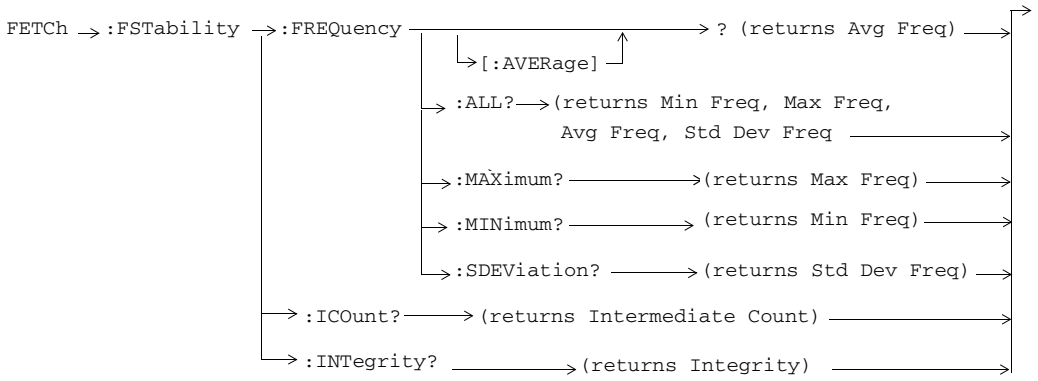
FETCh:FFERate



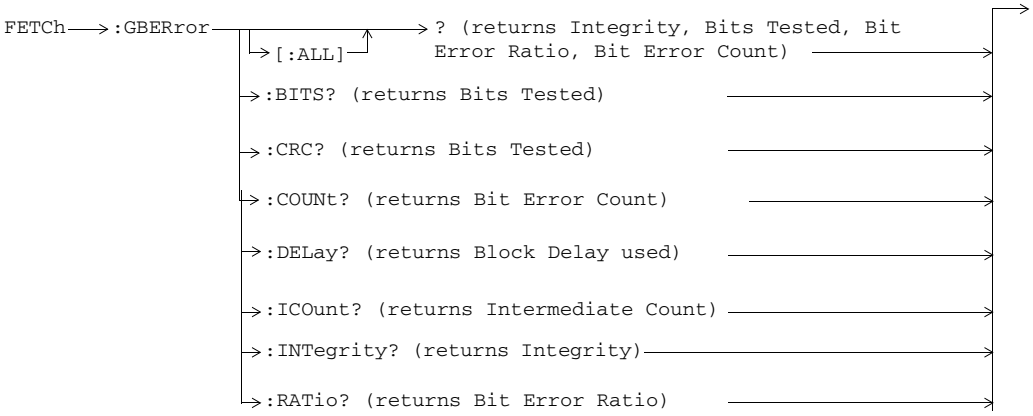
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

FETCh:FSTability



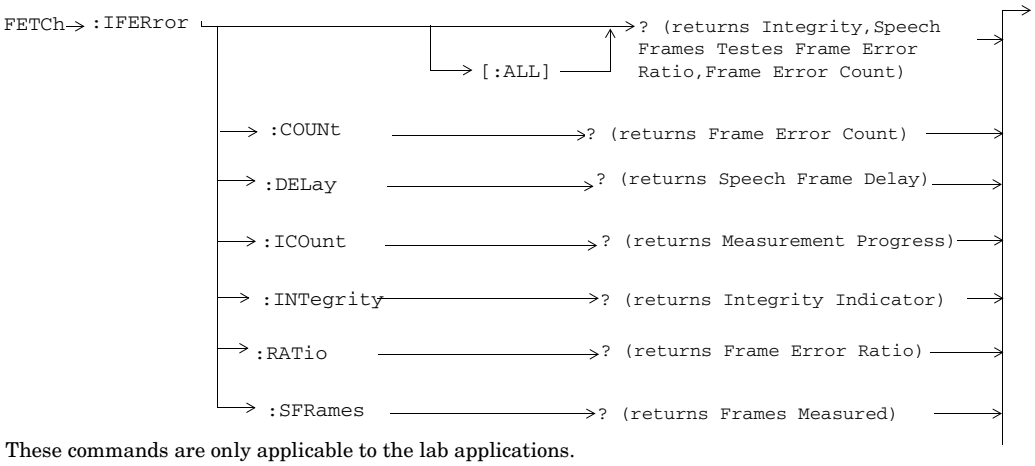


FETCh:GBERror



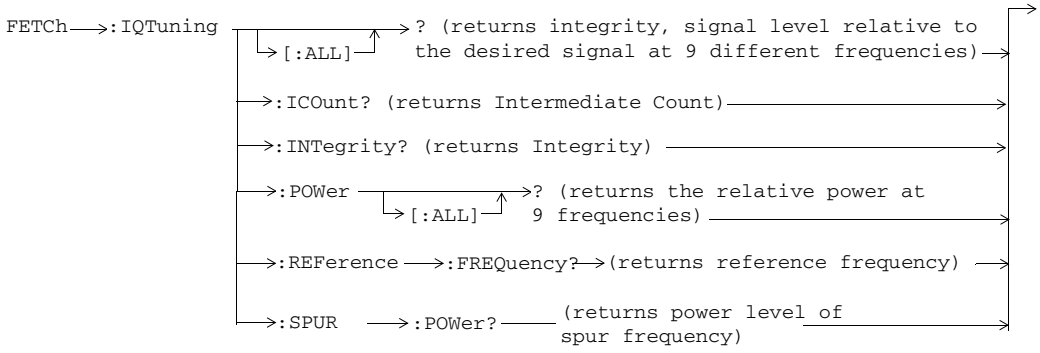
These commands are not applicable to GSM.

FETCh:IFERror

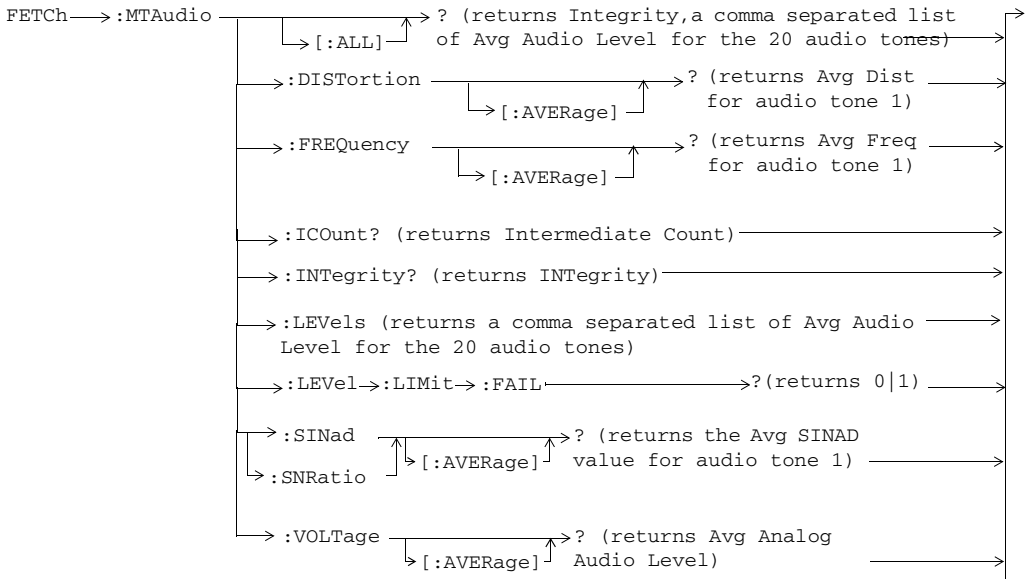


These commands are only applicable to the lab applications.

FETCh:IQTuning

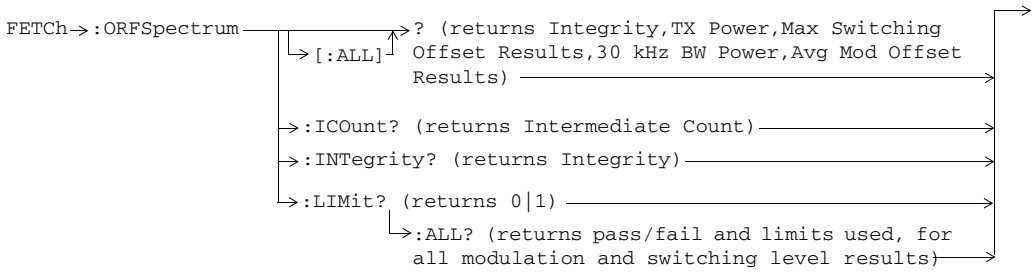


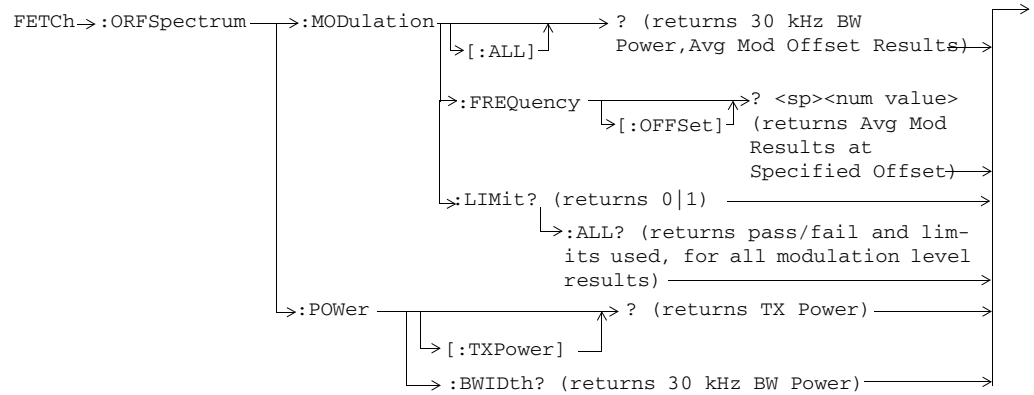
FETCh:MTAudio

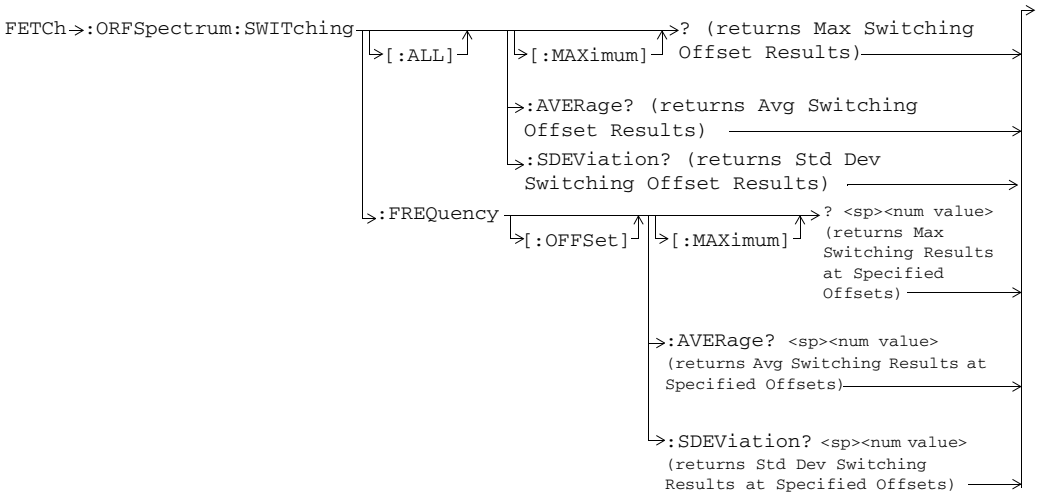


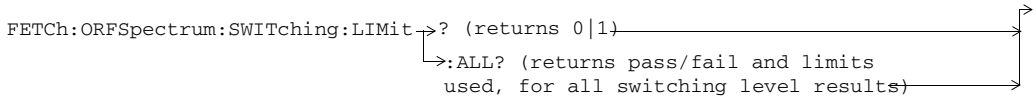
These commands are not applicable to GPRS or EGPRS.

FETCh:ORFSpectrum

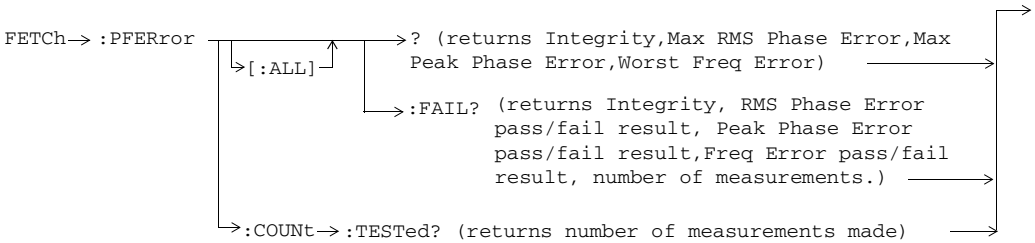


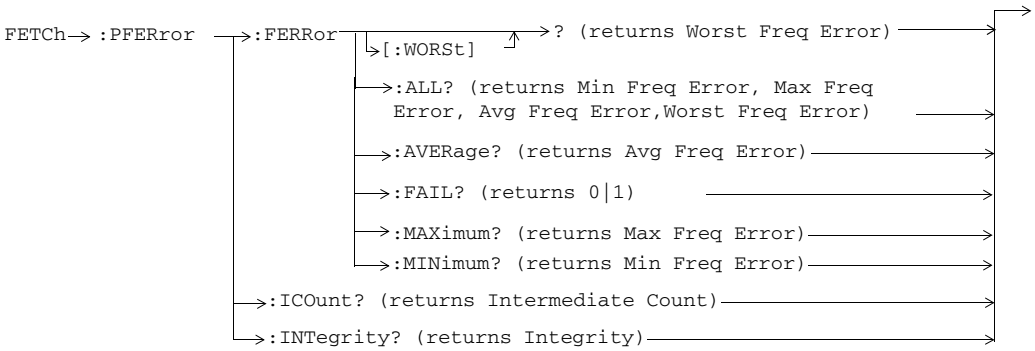

FETCh
:ORFSpectrum
:MODulation
[:ALL]
? (returns 30 kHz BW Power,Avg Mod Offset Results)
:FREQuency
[:OFFSet]
? <sp><num value> (returns Avg Mod Results at Specified Offset)
:LIMit? (returns 0|1)
:ALL? (returns pass/fail and limits used, for all modulation level results)
:POWer
? (returns TX Power)
[:TXPower]
:BWIDth? (returns 30 kHz BW Power)

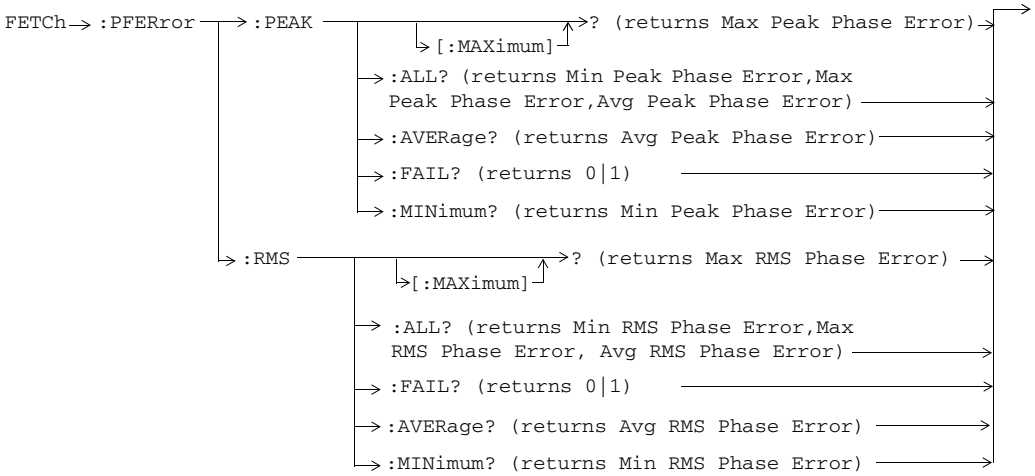

FETCh
:ORFSpectrum:SWITching
[:ALL]
[:MAXimum]
? (returns Max Switching Offset Results)
:AVERage? (returns Avg Switching Offset Results)
:SDEViation? (returns Std Dev Switching Offset Results)
:FREQuency
[:OFFSet]
[:MAXimum]
? <sp><num value> (returns Max Switching Results at Specified Offsets)
:AVERage? <sp><num value> (returns Avg Switching Results at Specified Offsets)
:SDEViation? <sp><num value> (returns Std Dev Switching Results at Specified Offsets)



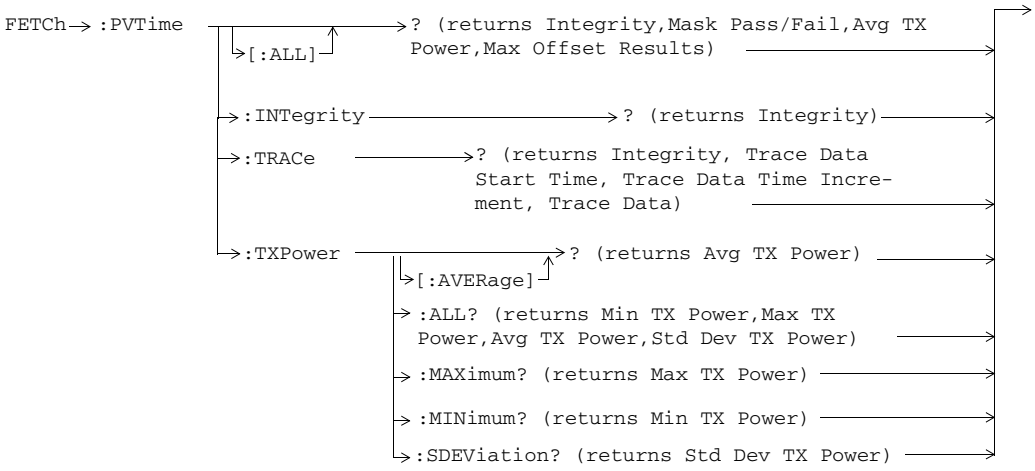
FETCh:PFERror



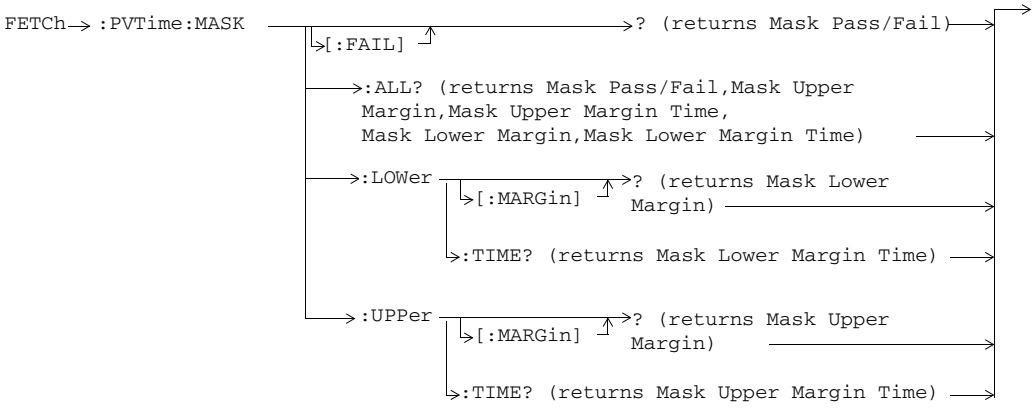




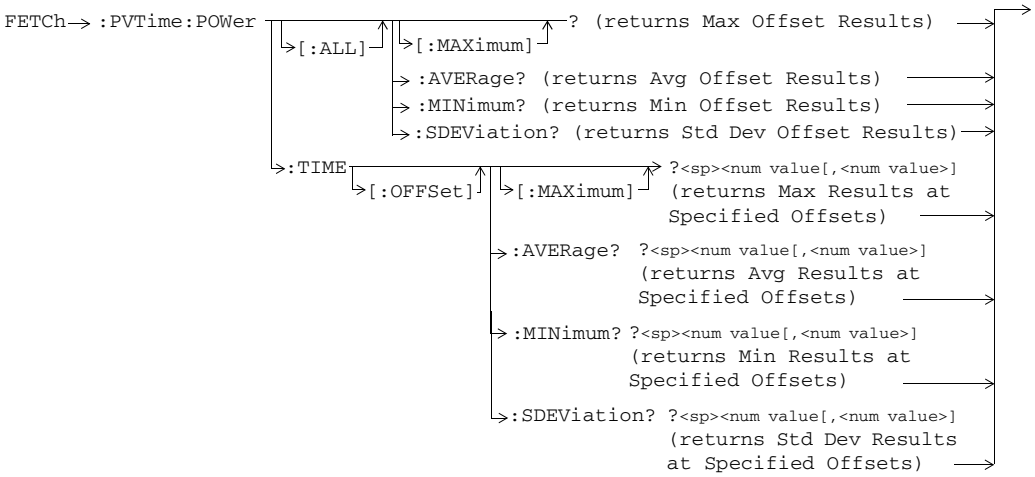
FETCh:PVTime



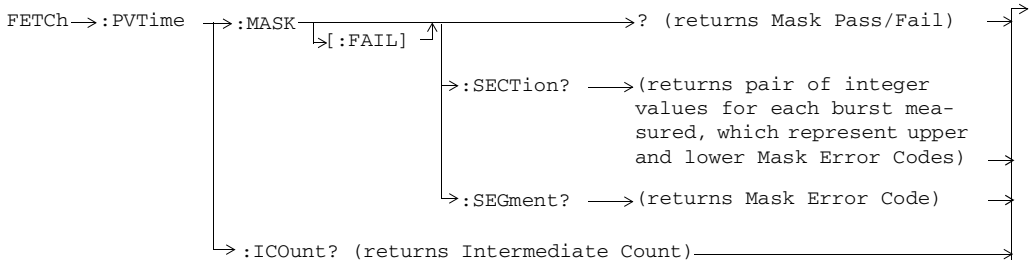
These commands are not applicable to GPRS or EGPRS.

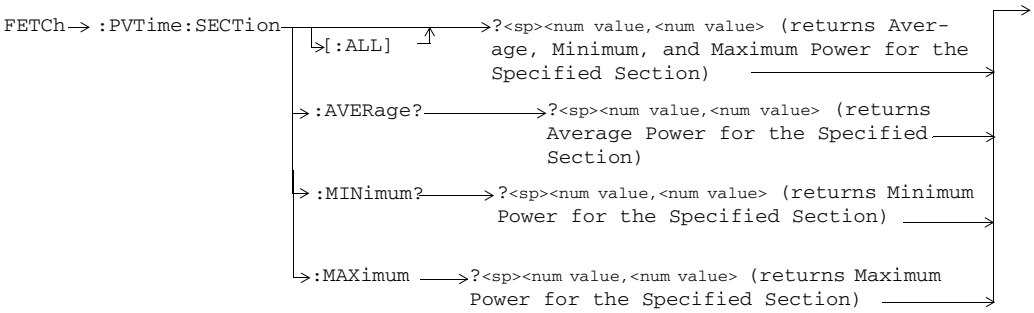


These commands are not applicable to GPRS or EGPRS.

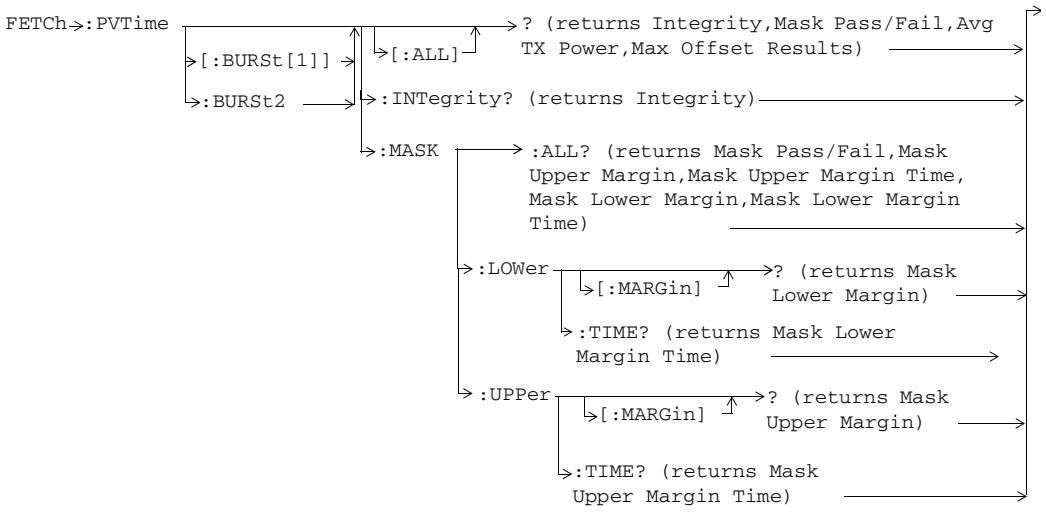


These commands are not applicable to GPRS or EGPRS.

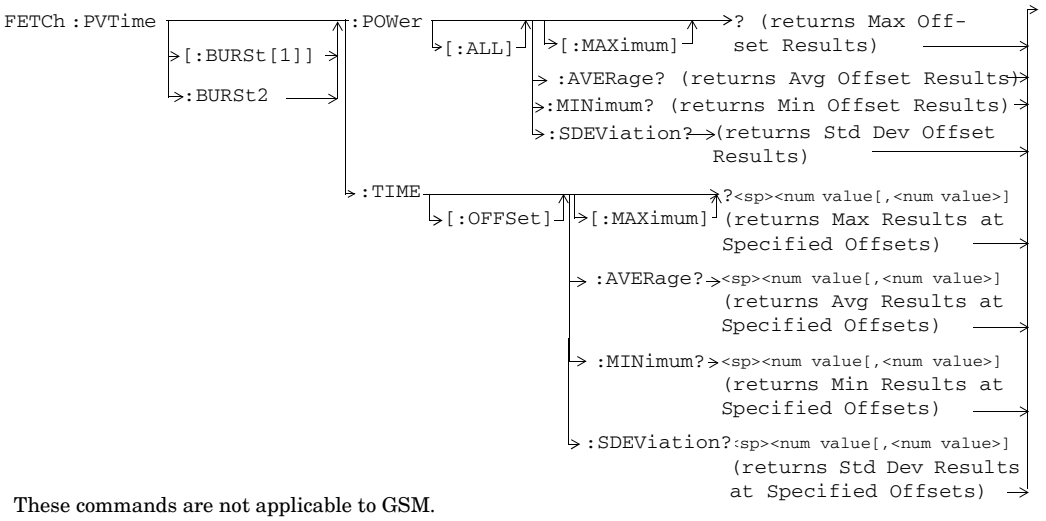




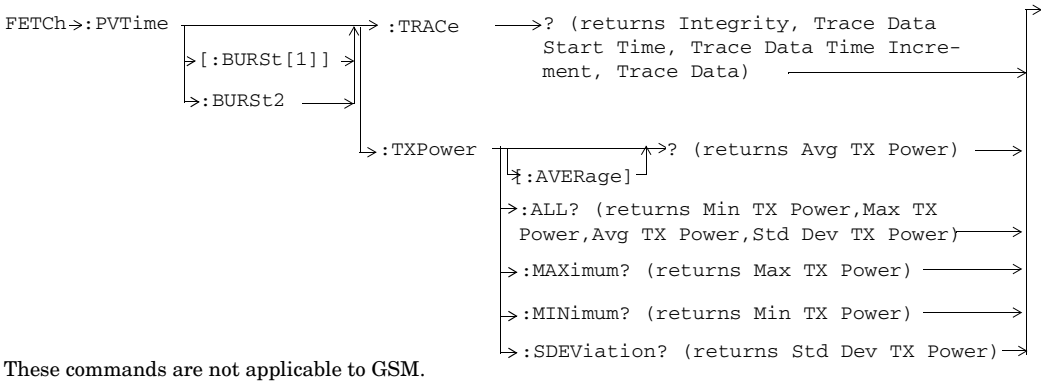
These commands are not applicable to GPRS or EGPRS.



These commands are not applicable to GSM.

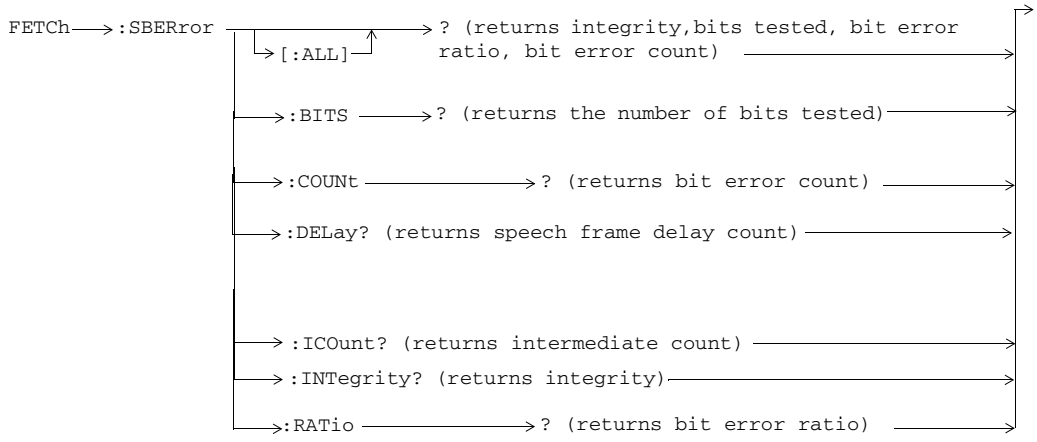


These commands are not applicable to GSM.



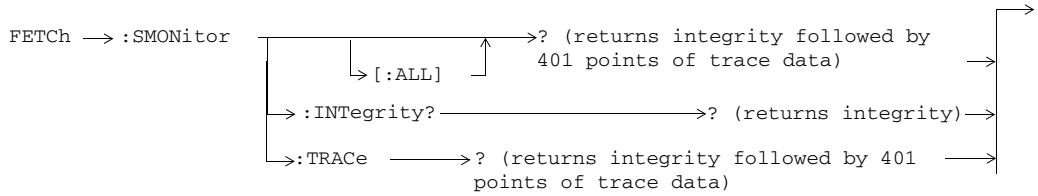
These commands are not applicable to GSM.

FETCh:SBERror

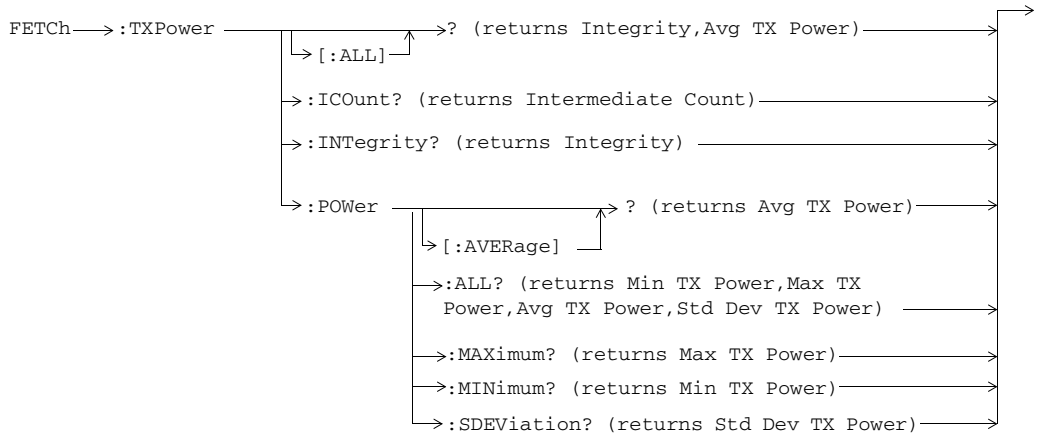


These commands are only applicable to EGPRS.

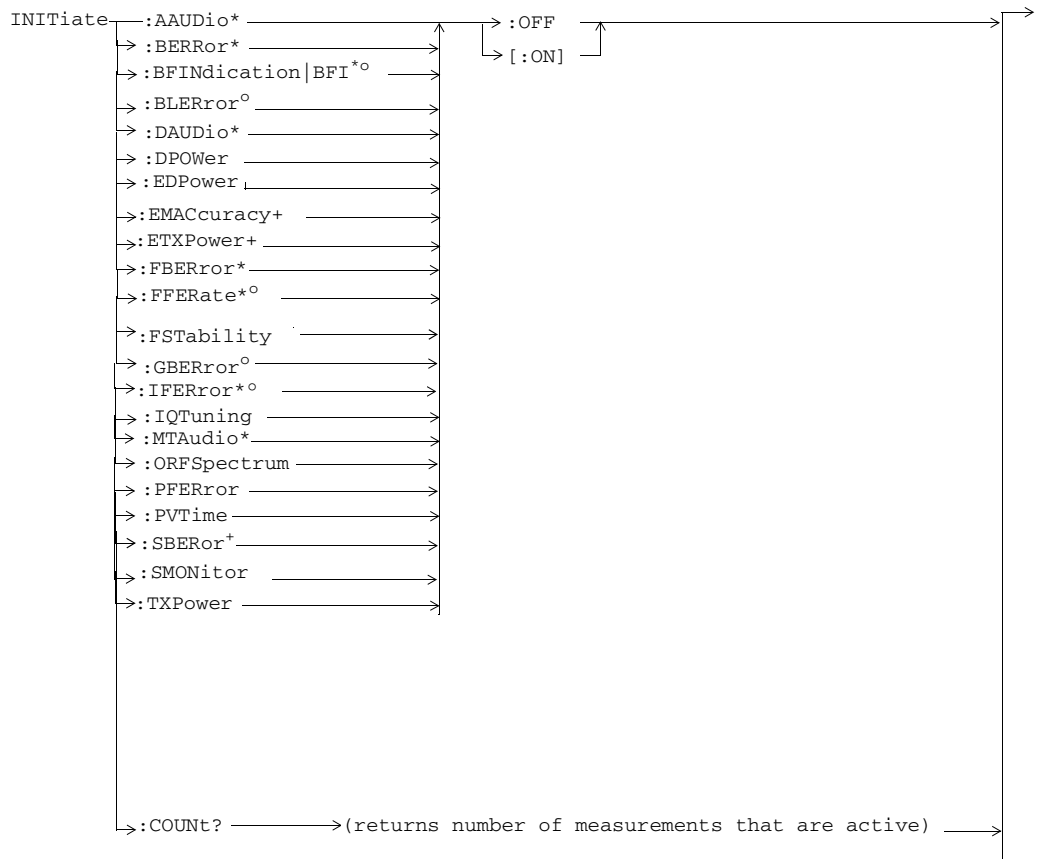
FETCh:SMONitor



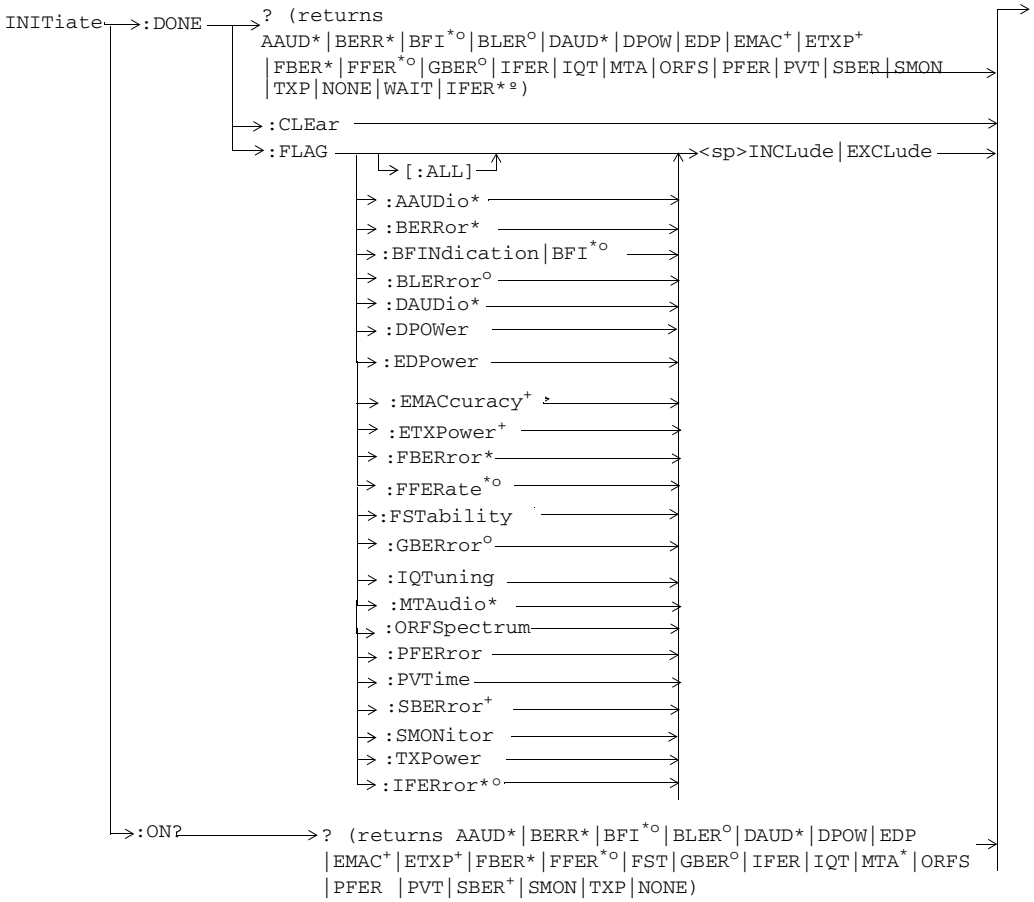
FETCh:TXPower



INITiate



* Not applicable to the GPRS test application
o Not applicable to the GSM test application
+ Only applicable to EGPRS

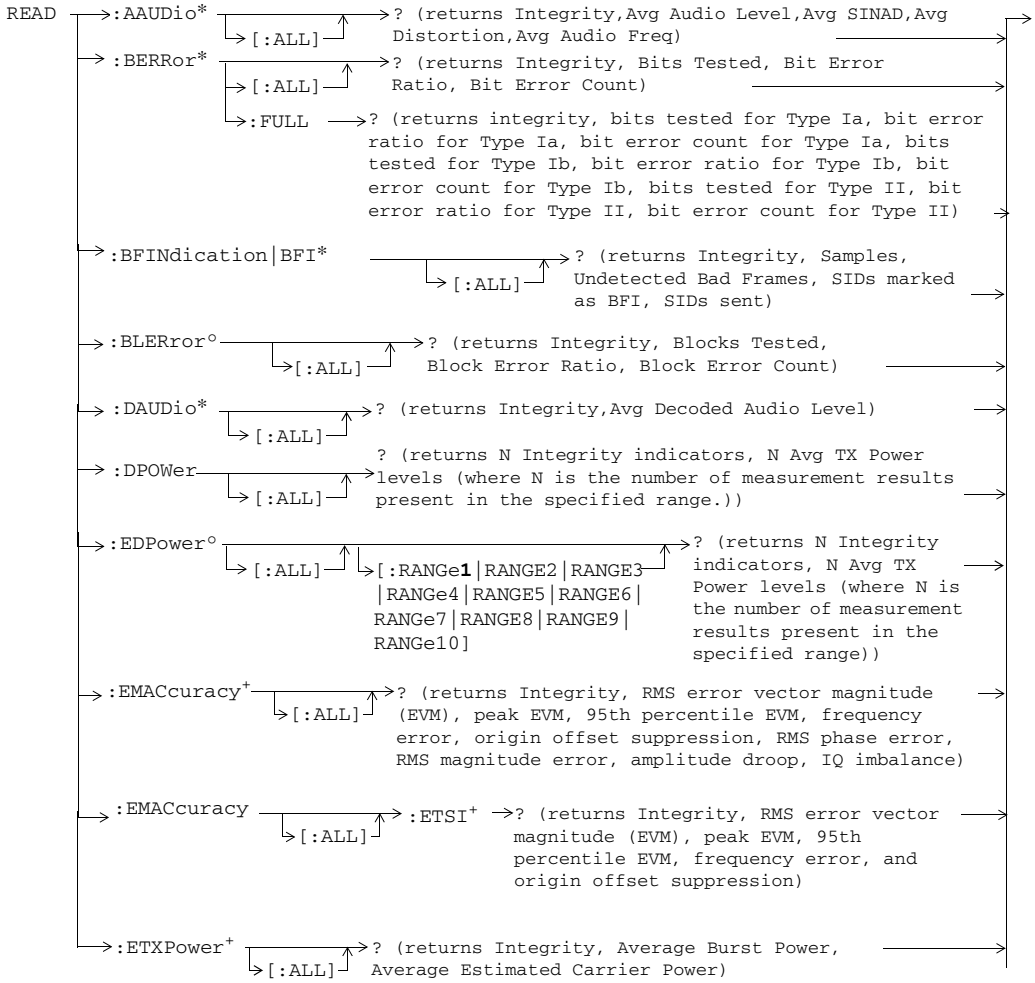


* Not applicable to the GPRS test application

º Not applicable to the GSM test application

+ Only applicable to EGPRS

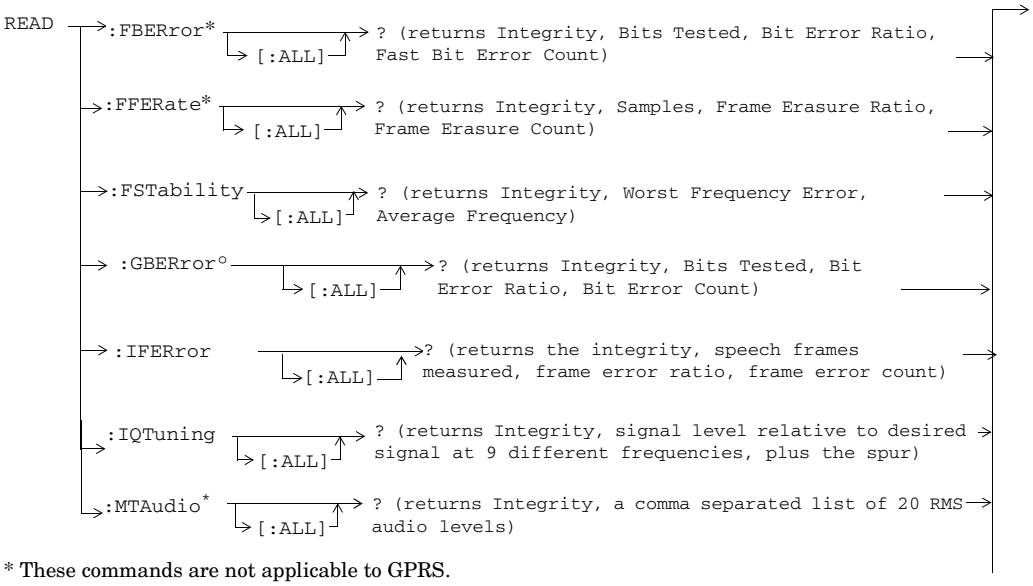
READ



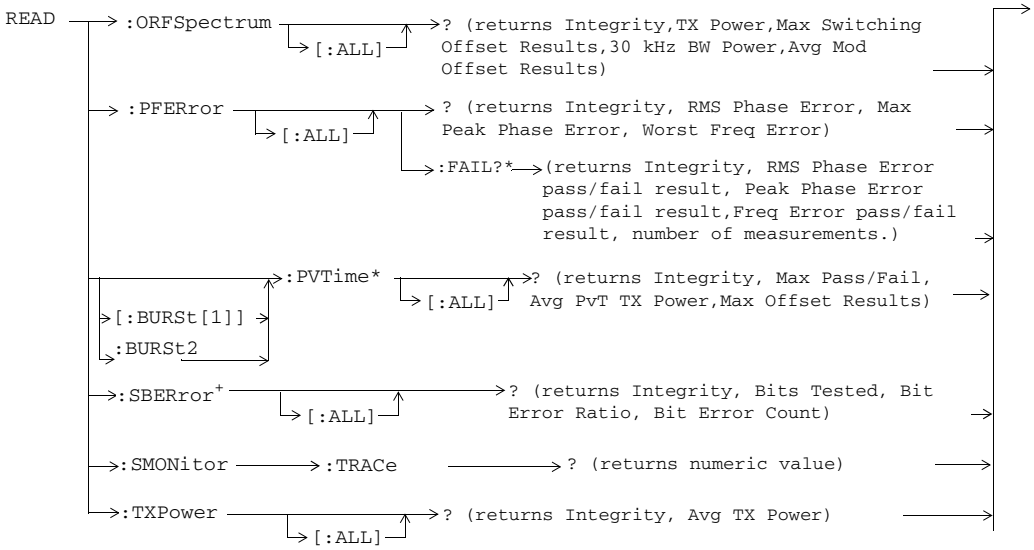
* These commands are not applicable to GPRS.

° These commands are not applicable to GSM.

+ These command is only applicable to EGPRS.

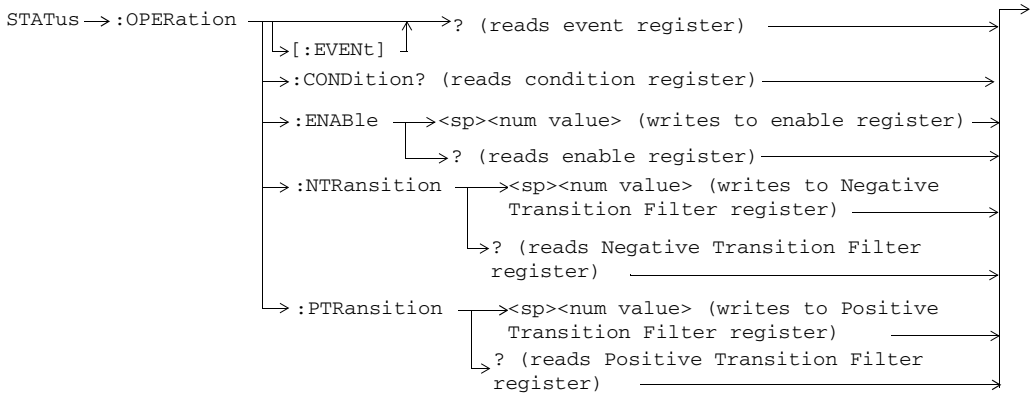


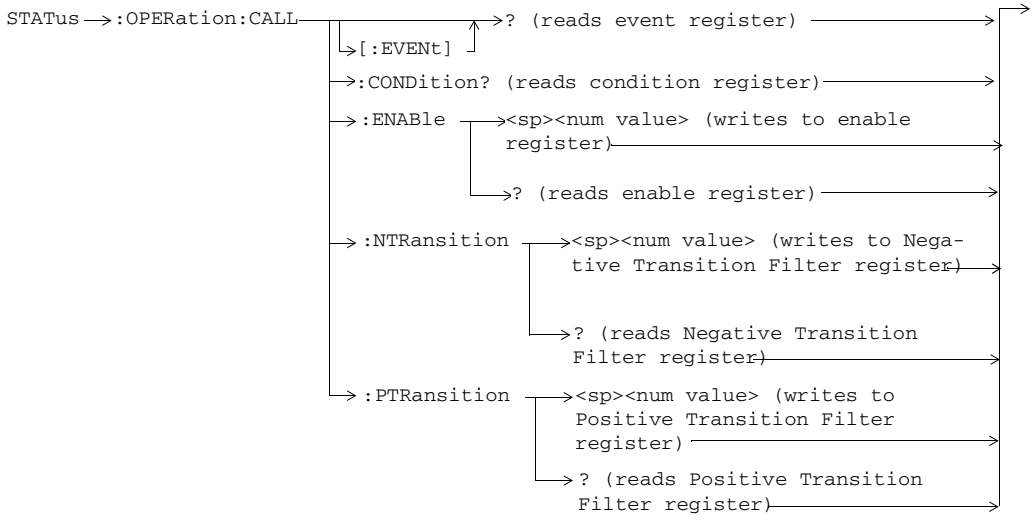
* These commands are not applicable to GPRS.
° These commands are not applicable to GSM.
+ These command is only applicable to EGPRS.

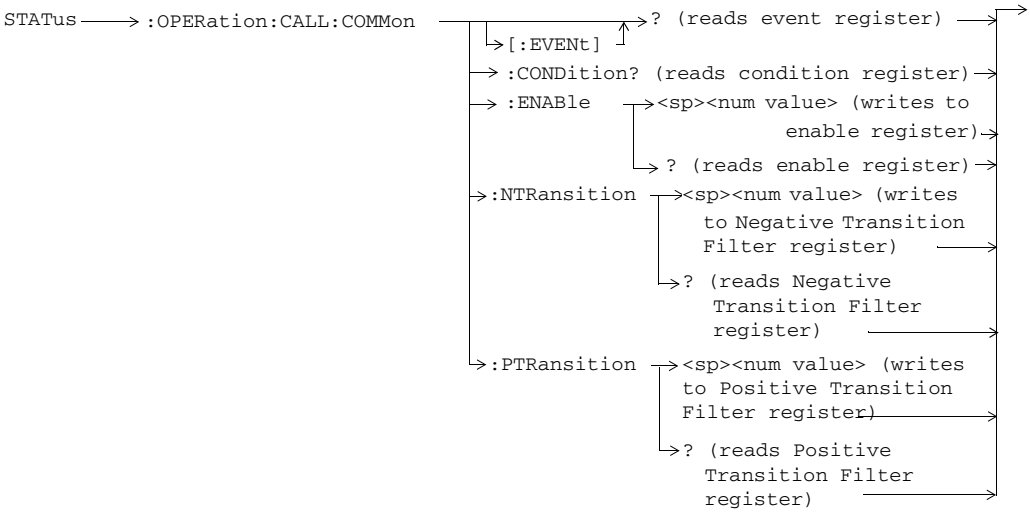


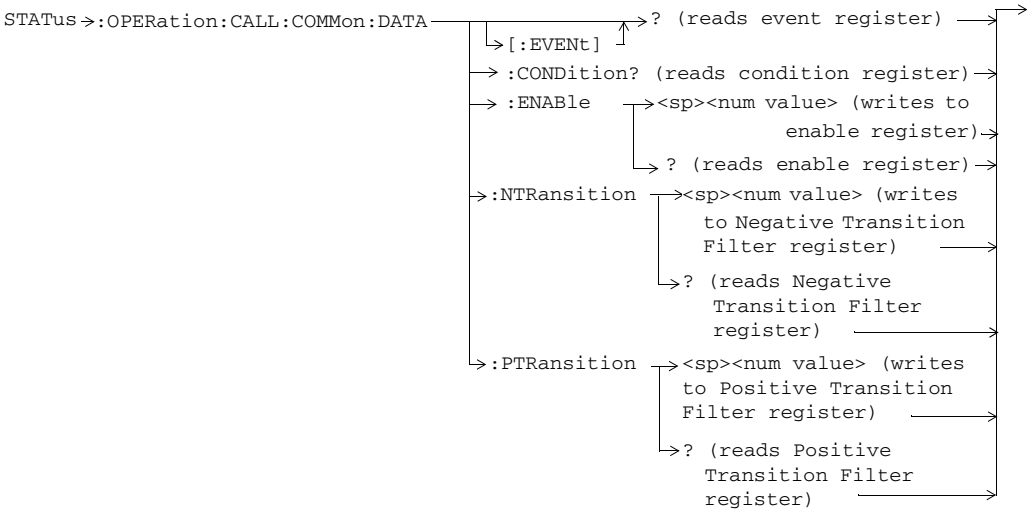
* These commands are not applicable to GSM.
+ These command is only applicable to EGPRS.

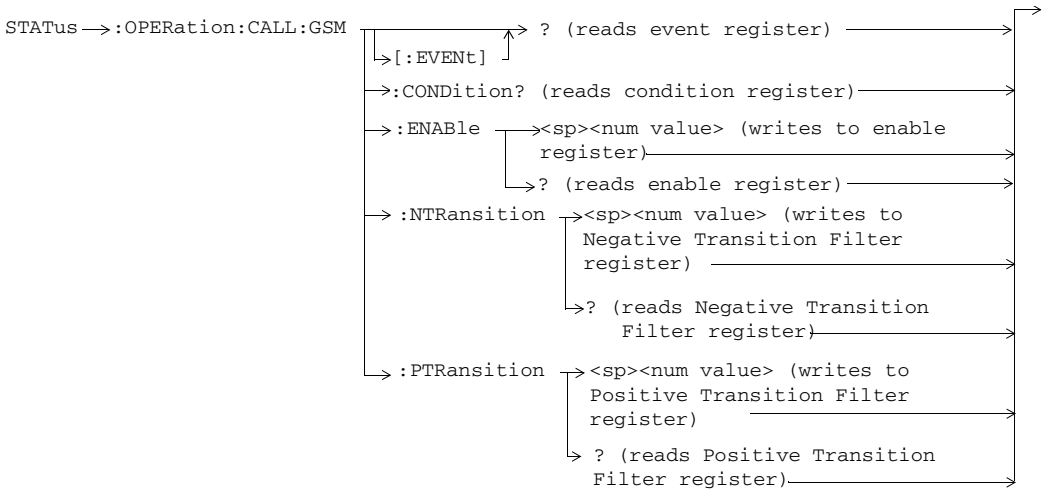
STATus:OPERation

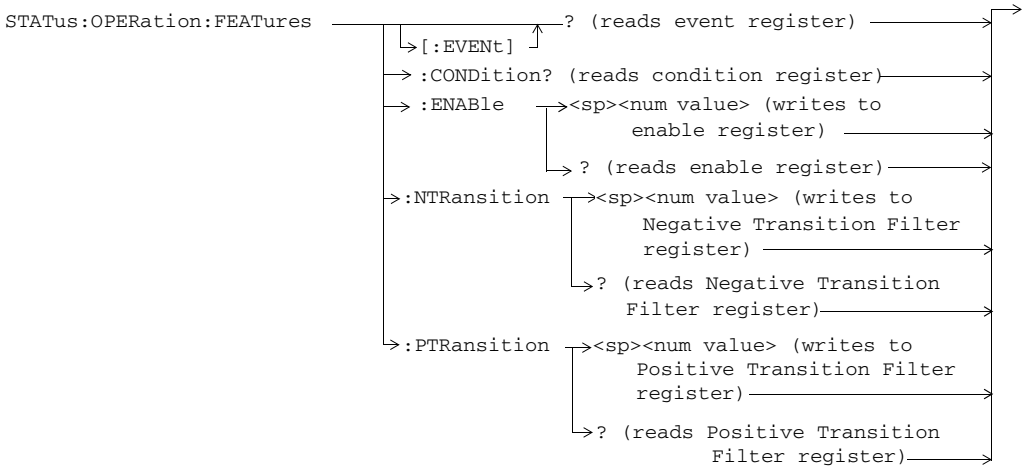


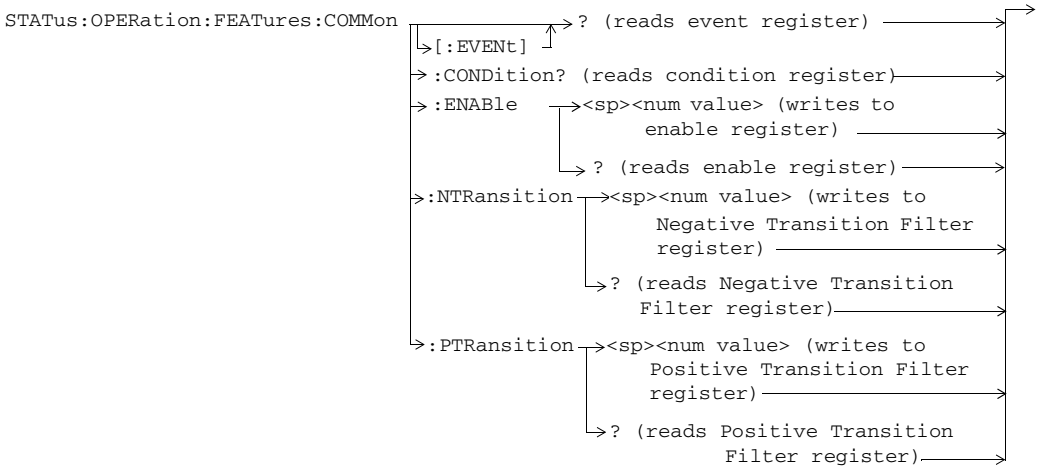


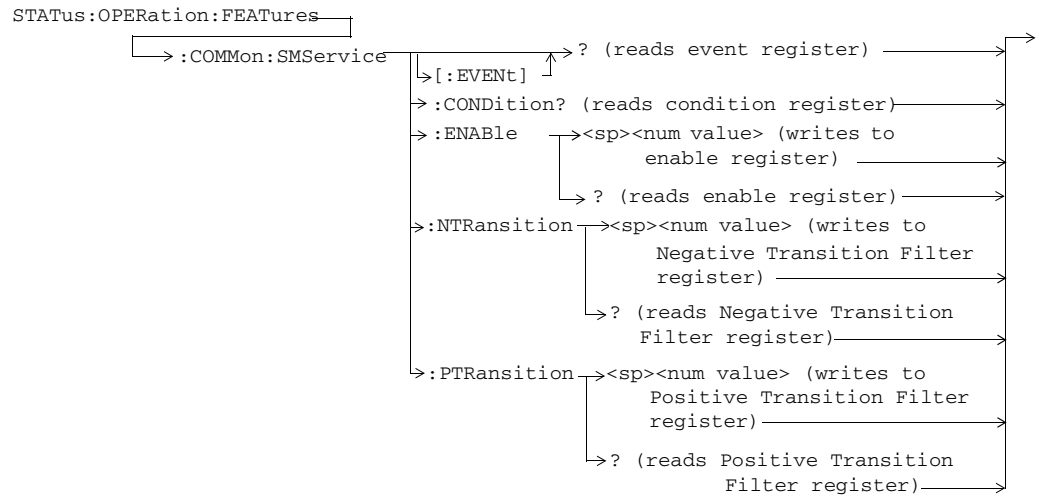

STATus
:OPERation:CALL:COMMon
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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

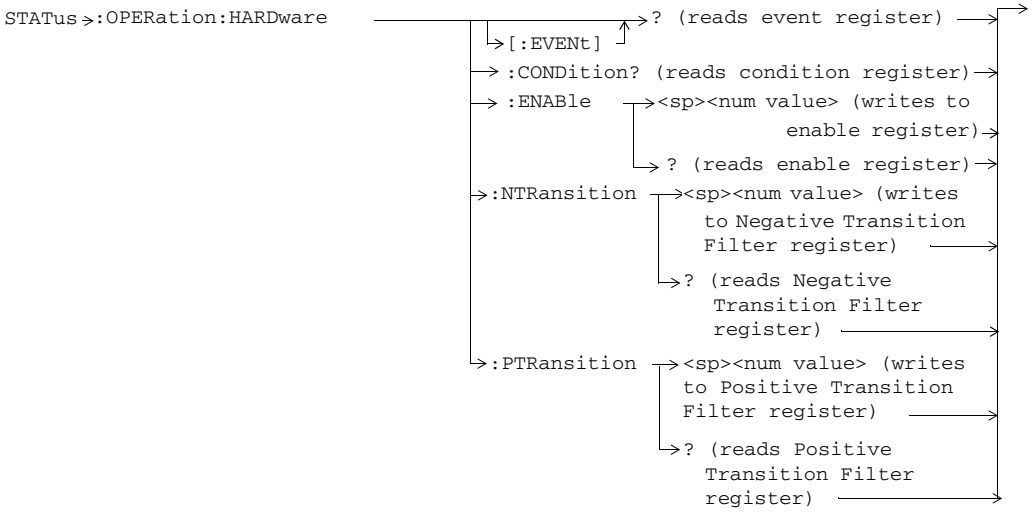

STATus
:OPERation:CALL:COMMon:DATA
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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

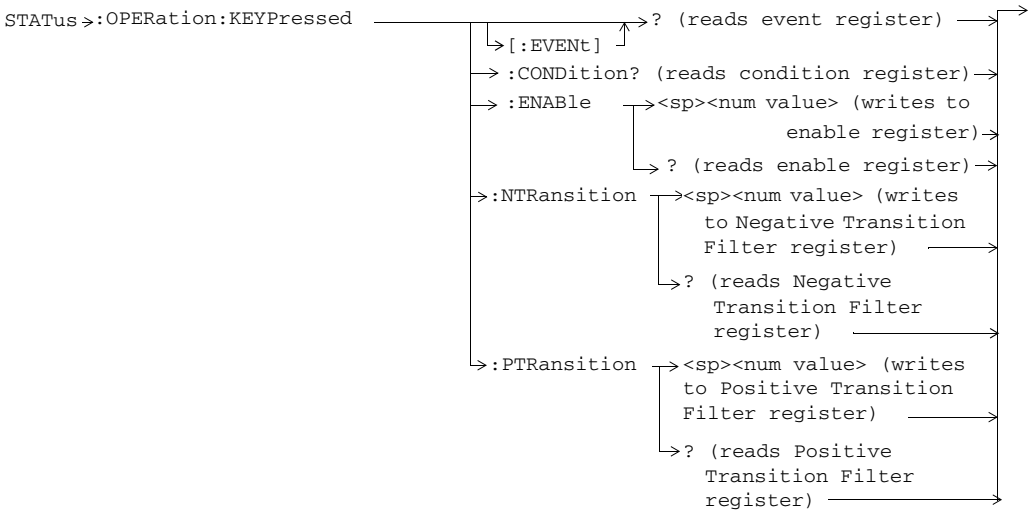

STATus
:OPERation:CALL:GSM
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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

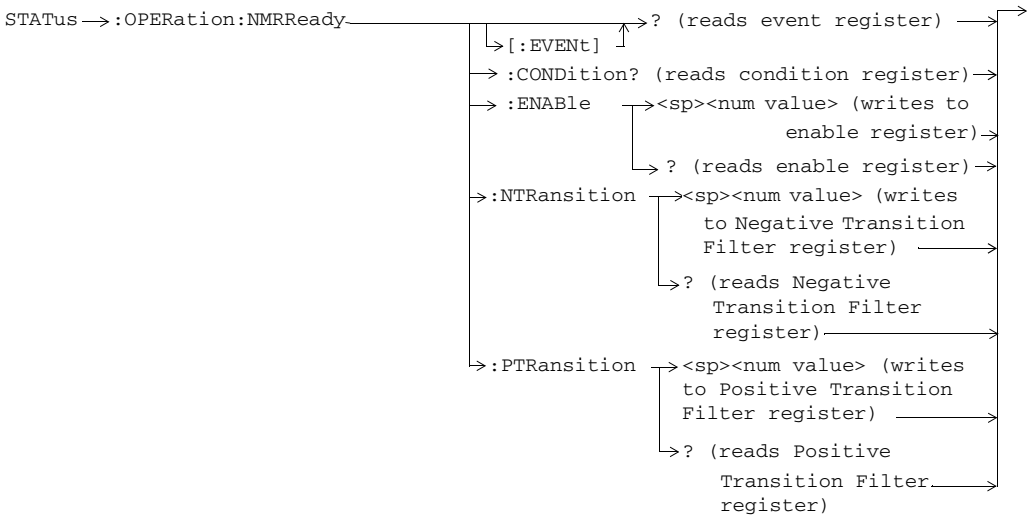

STATus:OPERation:FEATures
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition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

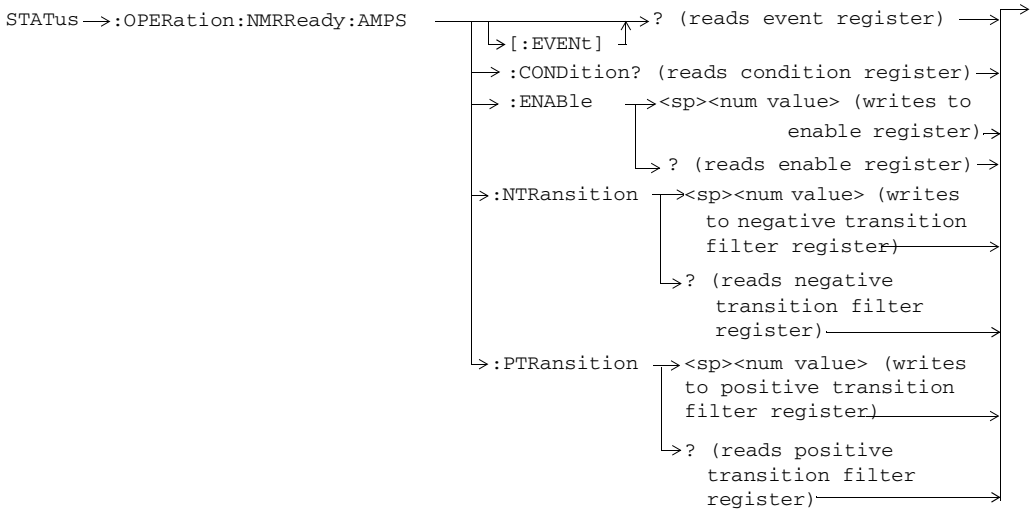

STATus:OPERation:FEATures:COMMon
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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

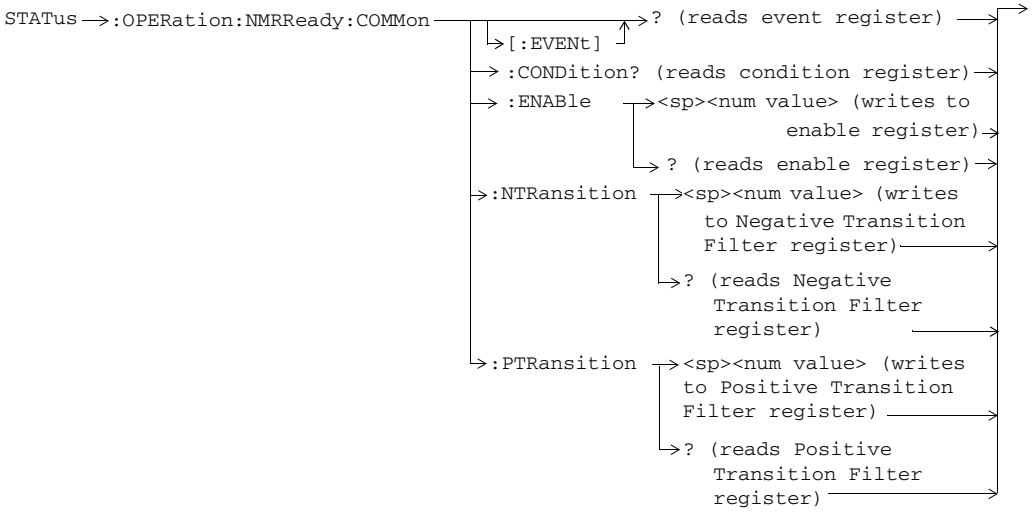

STATus:OPERation:FEATures
:COMMon:SMService
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition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

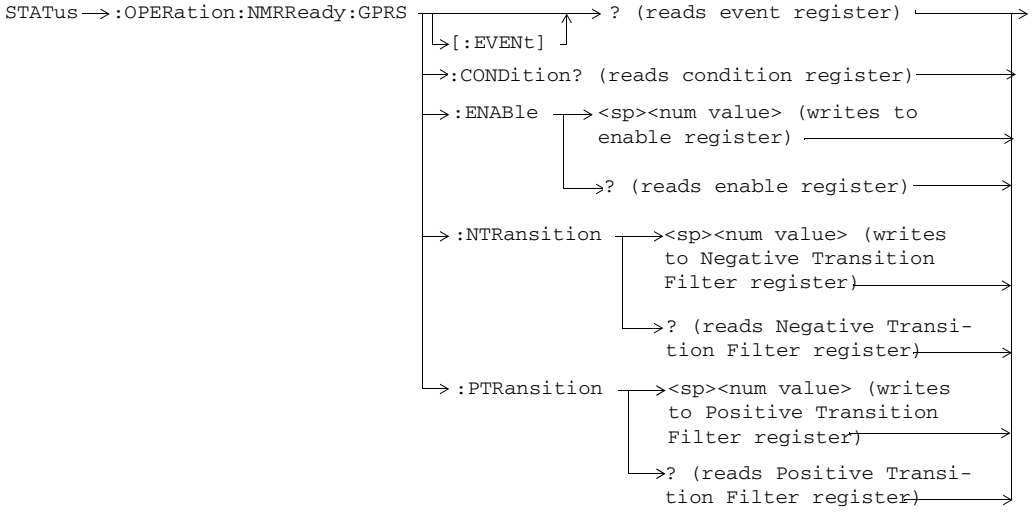

STATus:OPERation:HARDware
? (reads event register)
[:EVENt]
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)
:PTRansition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


STATus:OPERation: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)

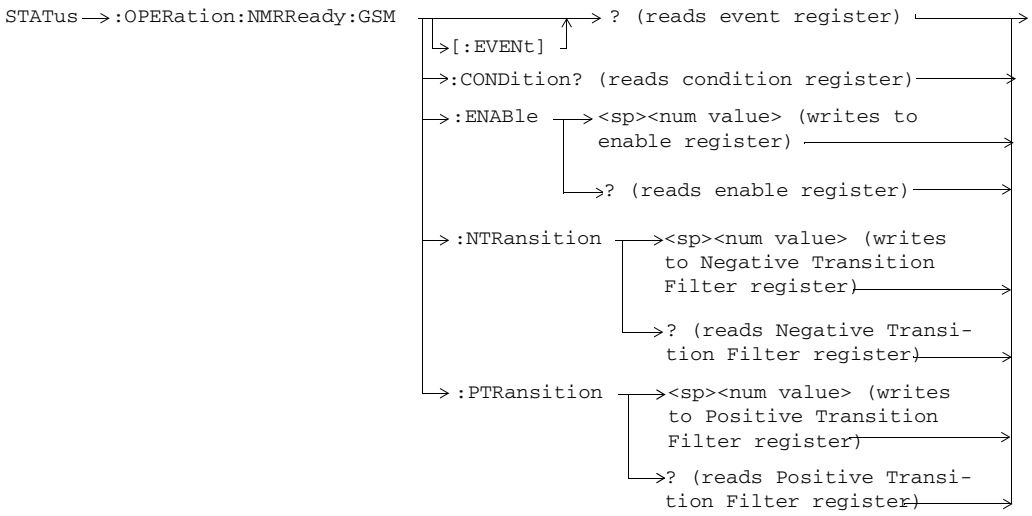

STATus :OPERation:NMRReady
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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


STATus :OPERation:NMRReady:AMPS
[: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)

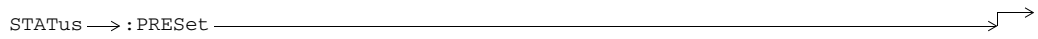

STATus
:OPERation:NMRReady:COMMon
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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



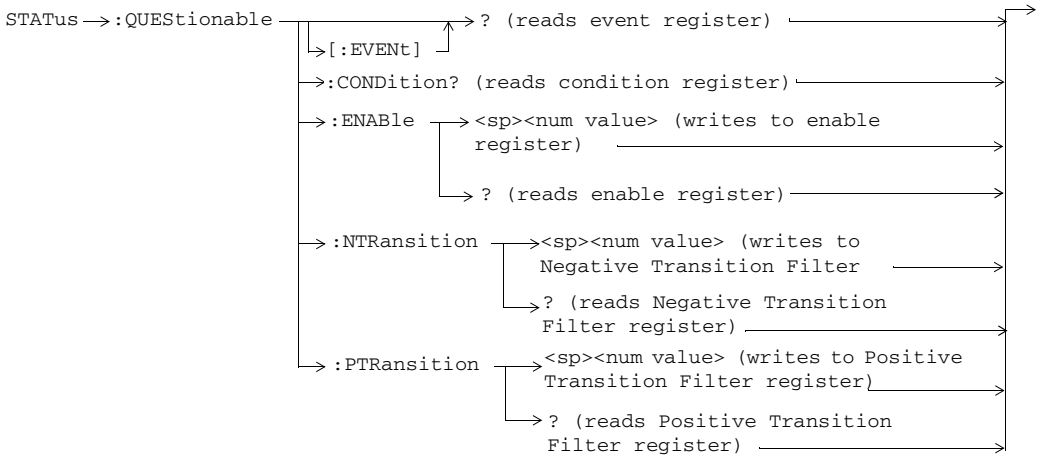
These commands are not applicable to GSM.

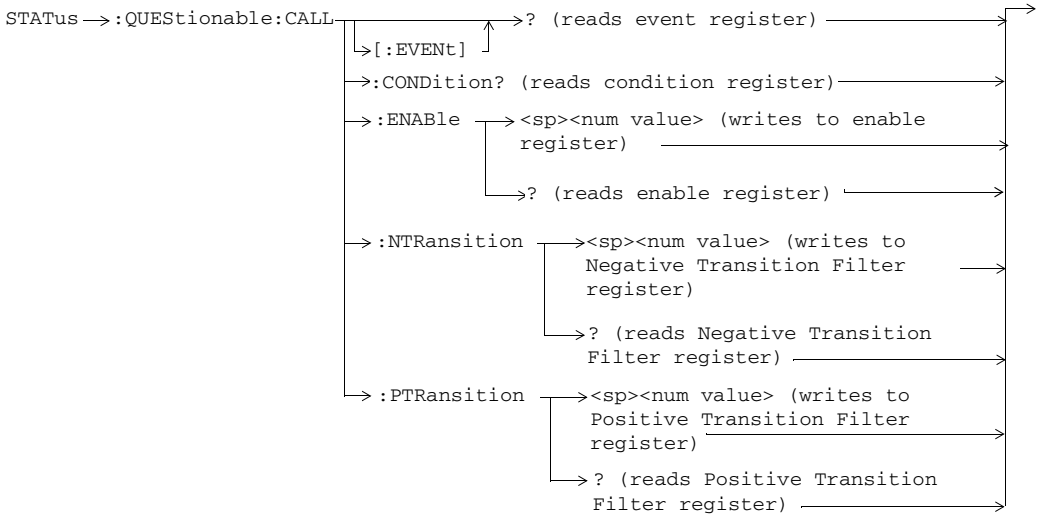


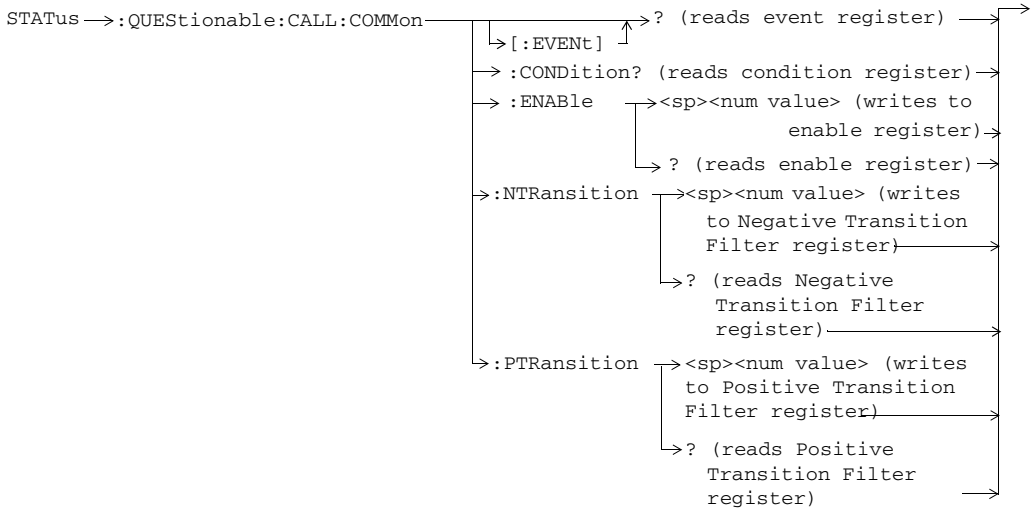
STATus:PRESet

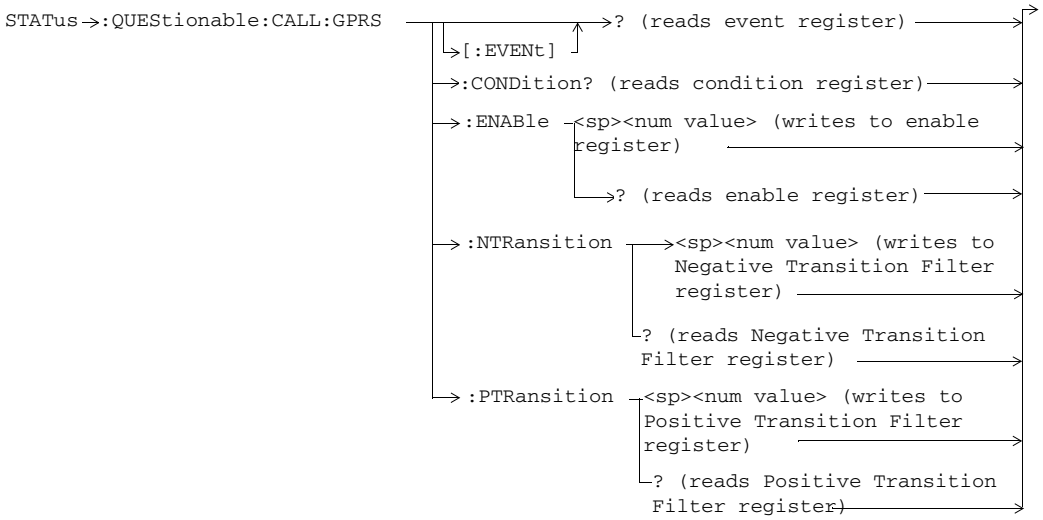


STATus:QUEStionable

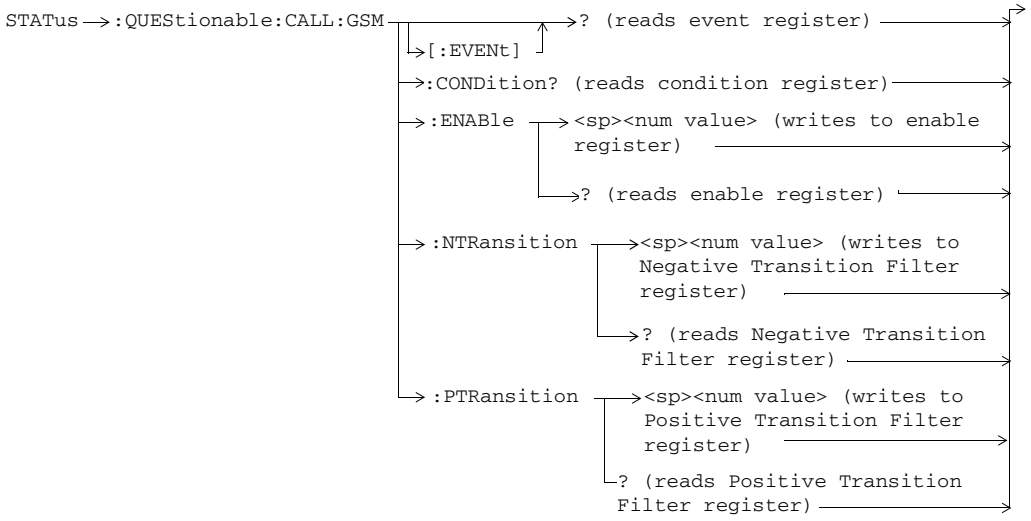


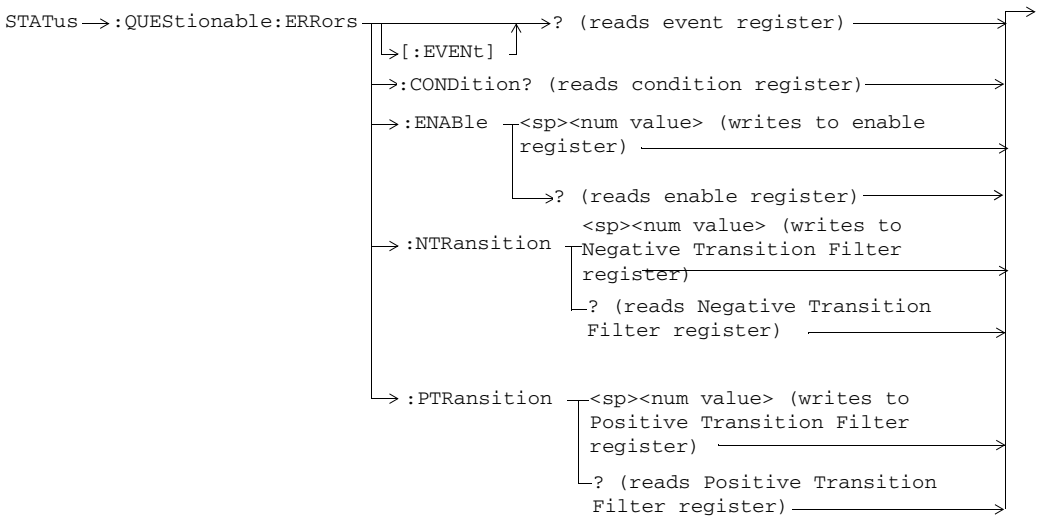


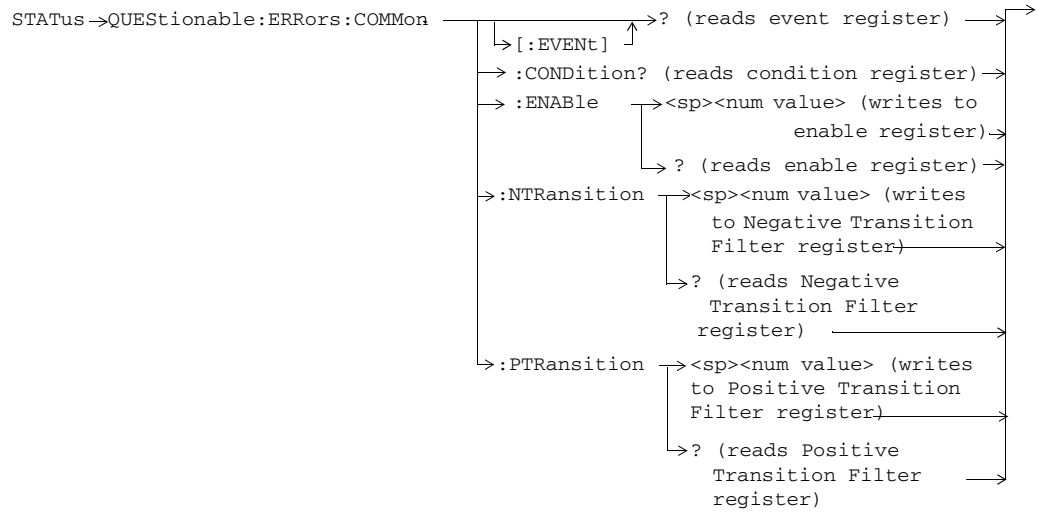


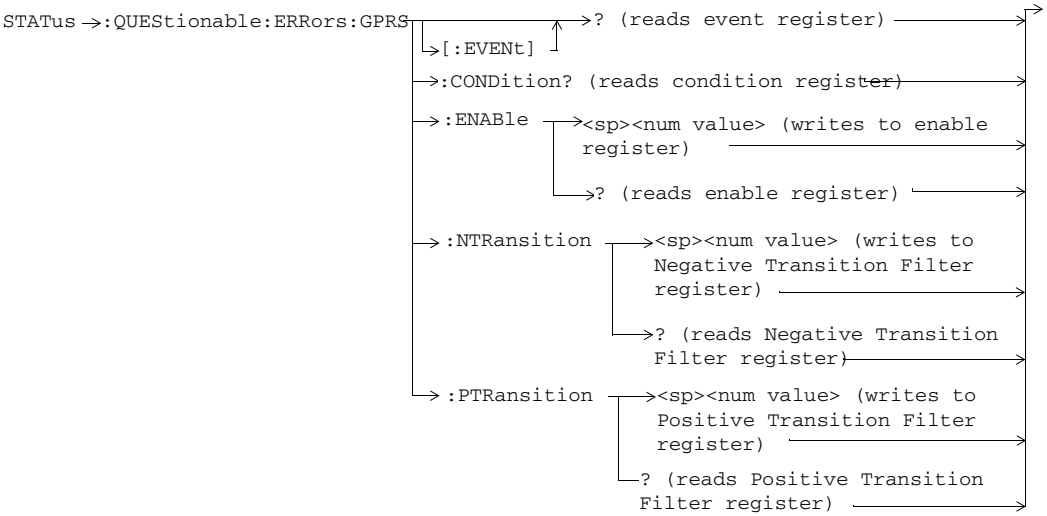


These commands are not applicable to GSM.

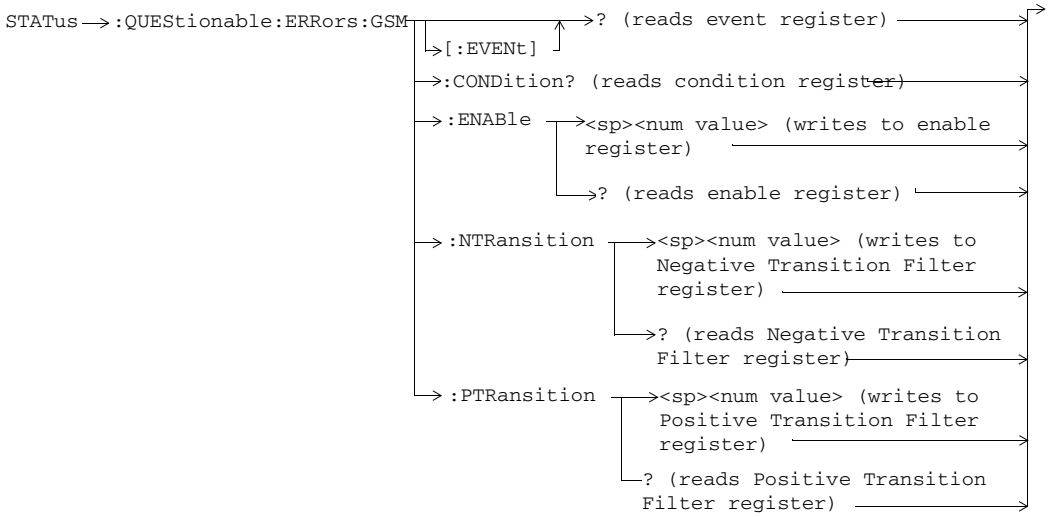

STATus
:QUEStionable:CALL:GSM
[:EVENt]
? (reads event register)
:CONDition? (reads condition register)
:ENABle
<sp><num value> (writes to enable register)
? (reads enable register)
:NTRansition
<sp><num value> (writes to Negative Transition Filter register)
? (reads Negative Transition Filter register)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


STATus
:QUEStionable:ERRors
? (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)

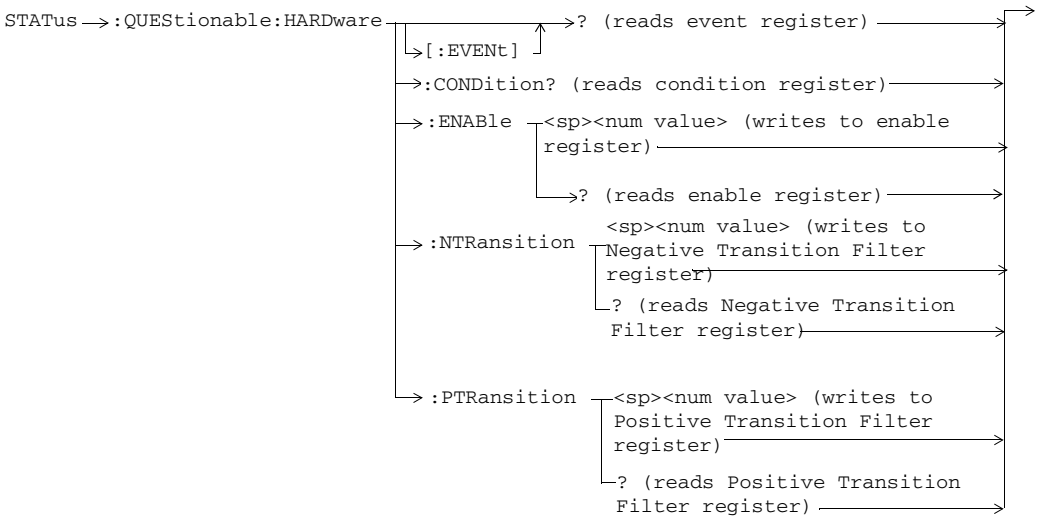




These commands are not applicable to GSM.

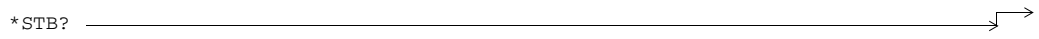


These commands are not applicable to GPRS.



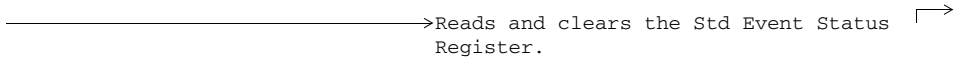
Status Byte Register

*STB?

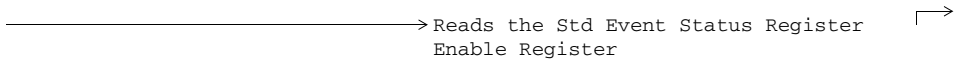


Standard Event Status Register

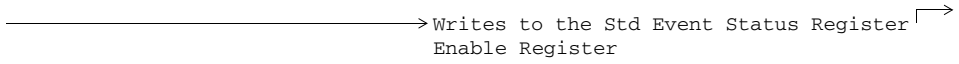
***ESR?**



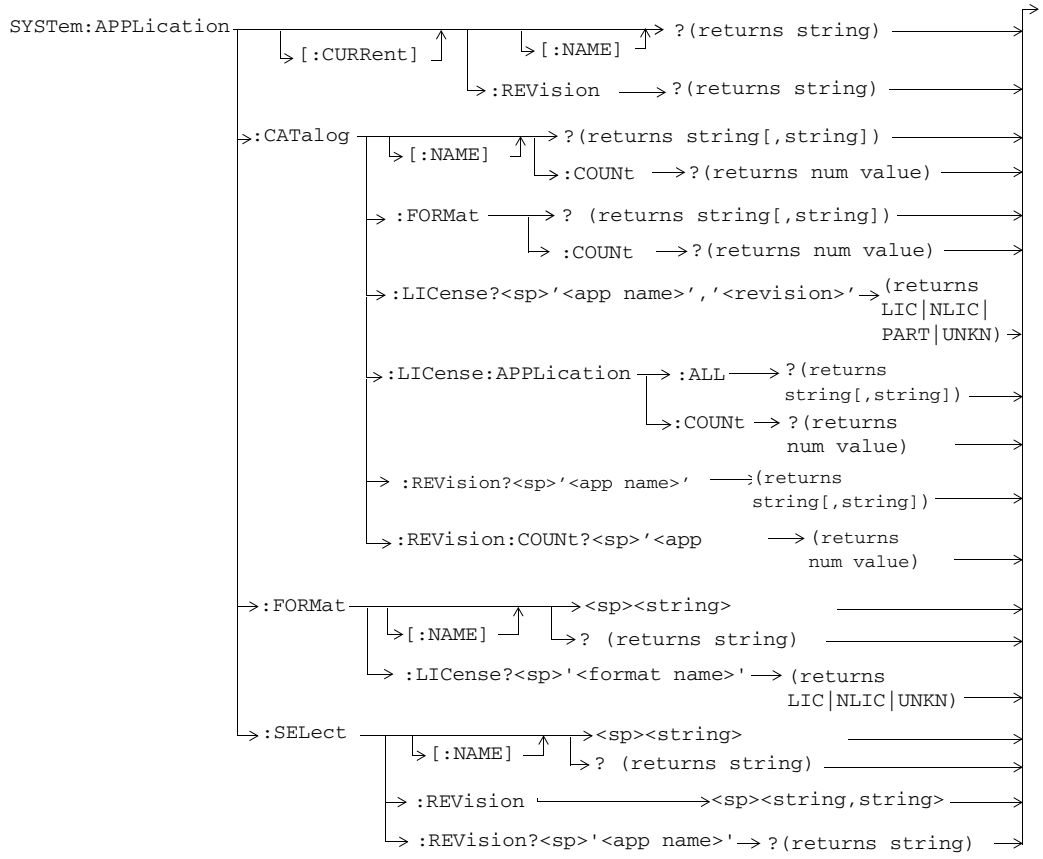
***ESE?**



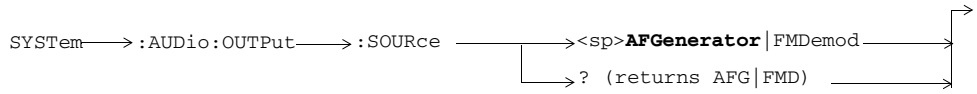
***ESE**

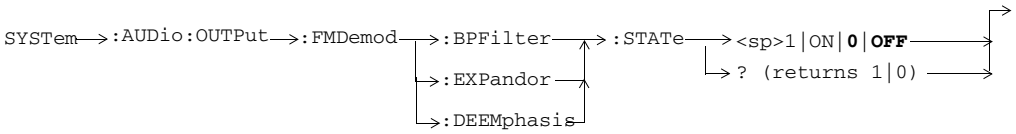


SYSTem:APPLication

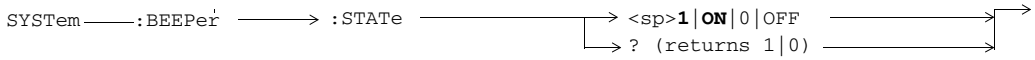


SYSTem:AUDio

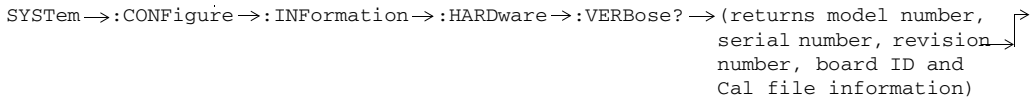




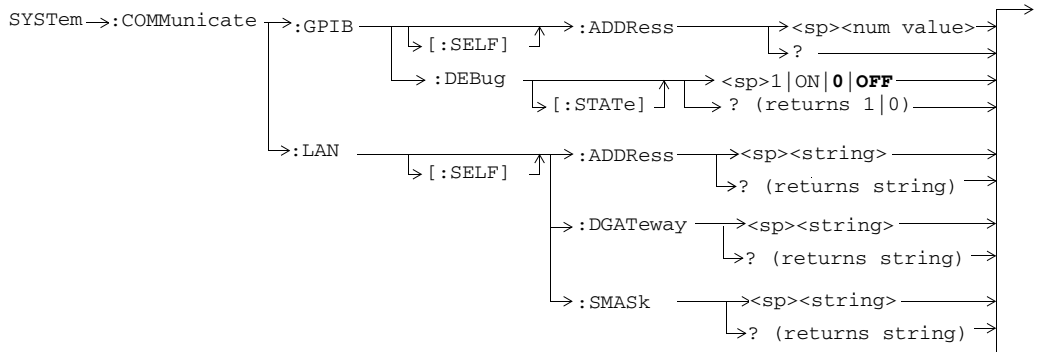
SYSTem:BEEPer



SYSTem:CONFigure

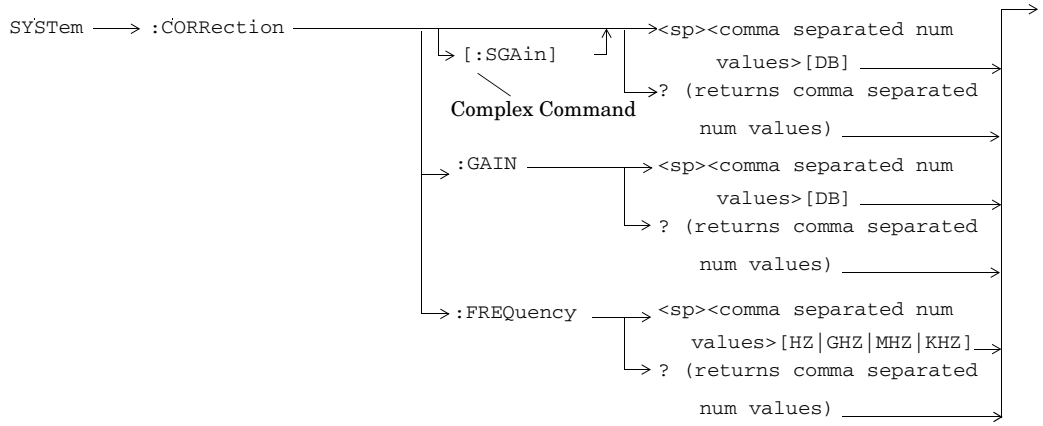


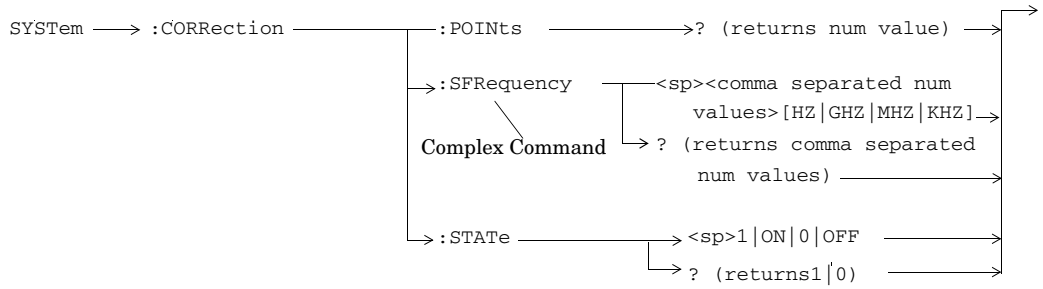
SYSTem:COMMunicate



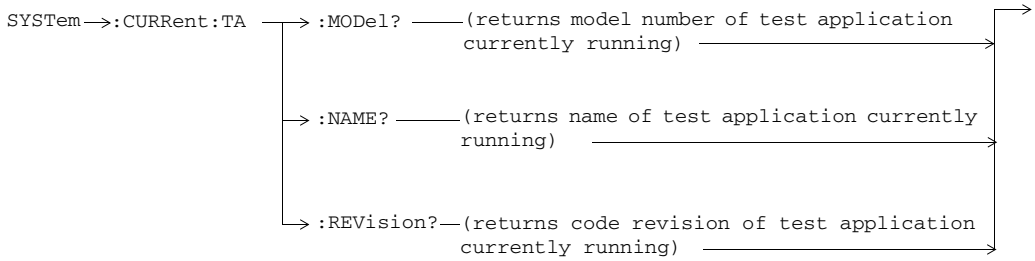
#This command is only applicable to the lab application or feature-licensed test application.

SYSTem:CORRection

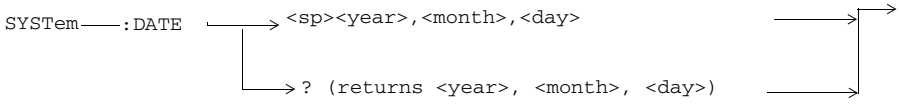




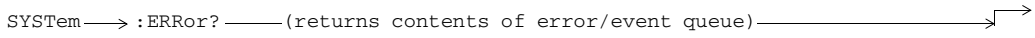
SYSTem:CURRent:TA



SYSTem:DATE

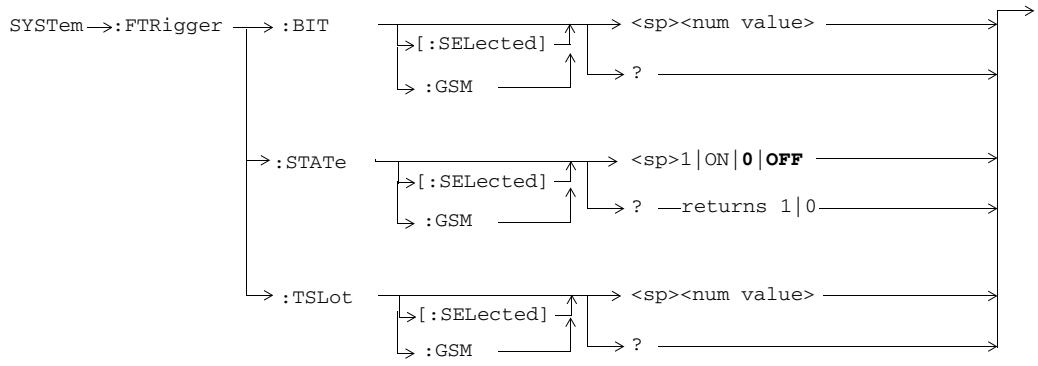


SYSTem:ERRor?

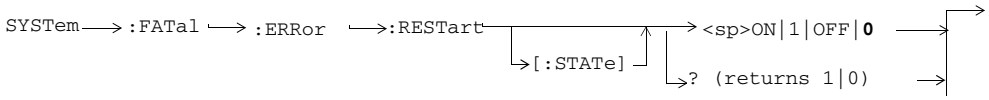


SYSTem:FTRigger

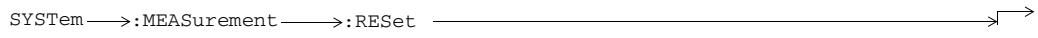
NOTE This command has been replaced by the command CALL:TRIGger[:OUTPut].



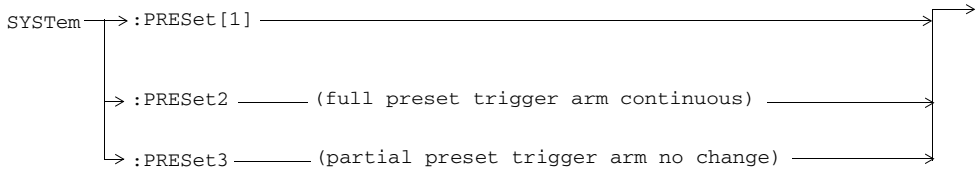
SYSTem:FATal



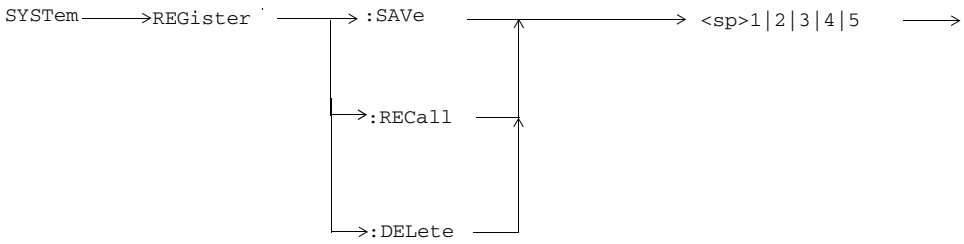
SYSTem:MEASurement



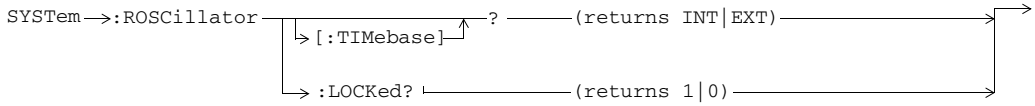
SYSTem:PRESet



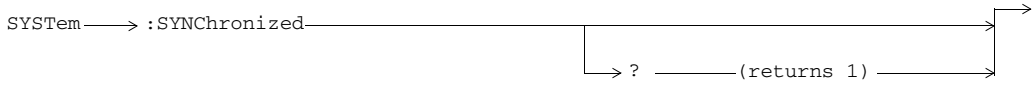
SYSTem:REGister



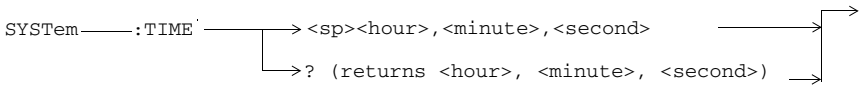
SYSTem:ROSCillator



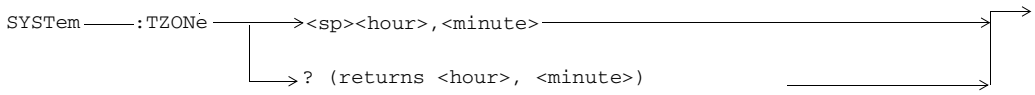
SYSTem:SYNChronized



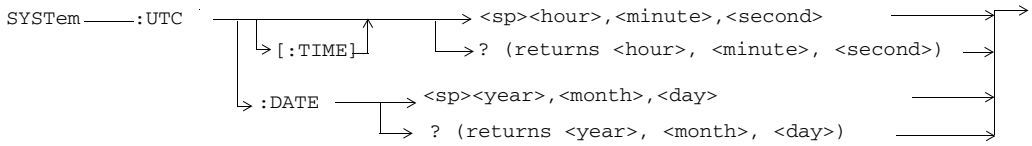
SYSTem:TIME



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.

Index

Index