

Agilent Technologies 8960 Series 10 E5515B,C Wireless Communications Test Set
Agilent Technologies E1960A GSM Mobile Test Application
Agilent Technologies E1964A GPRS Mobile Test Application

GPIB Command Syntax

GSM Test Application Revision A.07

GPRS Test Application Revision A.01

© Copyright Agilent Technologies 2001

<http://www.agilent.com/find/8960support/>



Agilent Technologies

Notice

Information contained in this document is subject to change without notice.

All Rights Reserved. Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

This material may be reproduced by or for the U.S. Government pursuant to the Copyright License under the clause at DFARS 52.227-7013 (APR 1988).

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

Contents

Diagram Conventions	7
Description	8
ABORt	12
AFGenerator	13
CALibration	14
CALL:ACTivated	15
CALL:ATTached	16
CALL:BA	17
CALL:BAND	19
CALL:BCCode	20
CALL:BCHannel	21
CALL:BURSt	22
CALL:CONNected	23
CALL:COUNT	24
CALL:DCONnected	26
CALL:END	27
CALL:FUNCTion	28
CALL:HANDover HANDoff	30
CALL:IMEI	31
CALL:LACode	32
CALL:MCCode	33
CALL:MNCCode	34

Contents

CALL:MS	35
CALL:NCCode	41
CALL:OPERating	42
CALL:ORIGinate	43
CALL:PAGing	44
CALL:PDTCH PDTChannel	45
CALL:PMNCode	49
CALL:POWer	50
CALL:RFGenerator	51
CALL:SETup	54
CALL:SIGNaling	57
CALL:STATus	58
CALL:TCHannel	60
CALL:TRANsferring	64
DISPlay	65
FETCh:AAUDio	66
FETCh:BEERor	71
FETCh:DAUDio	74
FETCh:DPOWer	75
FETCh:FBERror	77
FETCh:GBERror	78
FETCh:IQTuning	79

Contents

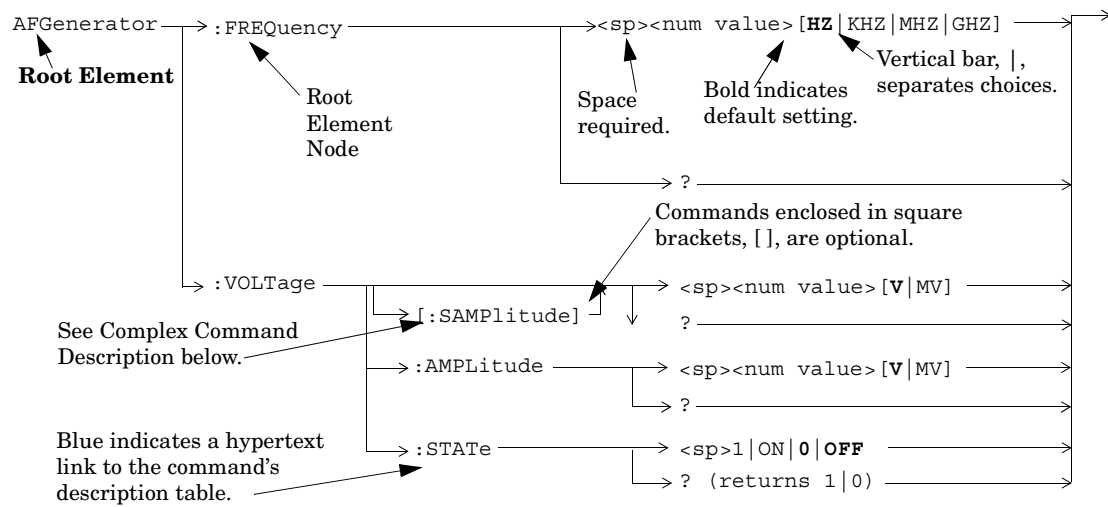
FETCh:ORFSpectrum	80
FETCh:PFERror	82
FETCh:PVTime	84
FETCh:TXPower	91
INITiate	92
READ	94
RFANalyzer	98
SETup:AAUDio	103
SETup:BEERror	107
SETup:CONTinuous	109
SETup:DAUDio	110
SETup:DPOWer	112
SETup:FBERror	114
SETup:GBERror	116
SETup:IQTuning	117
SETup:ORFSpectrum	122
SETup:PFERror	126
SETup:PVTime	128
SETup:TXPower	131
STATus:OPERation	133
STATus:PRESet	143
STATus:QUEStionable	144

Contents

Status Byte Register	153
Standard Event Status Register	154
SYSTem:APPLication	155
SYSTem:BEEPer	157
SYSTem:COMMunicate	158
SYSTem:CONFigure	159
SYSTem:CORRection	160
SYSTem:CURRent:TA	162
SYSTem:ERRor?	163
SYSTem:FTRigger	164
SYSTem:MEASurement	165
SYSTem:PRESet	166
SYSTem:ROSCillator	167
SYSTem:SYNChronized	168
IEEE 488.2 Common Commands	169
Description	169

Diagram Conventions

Description



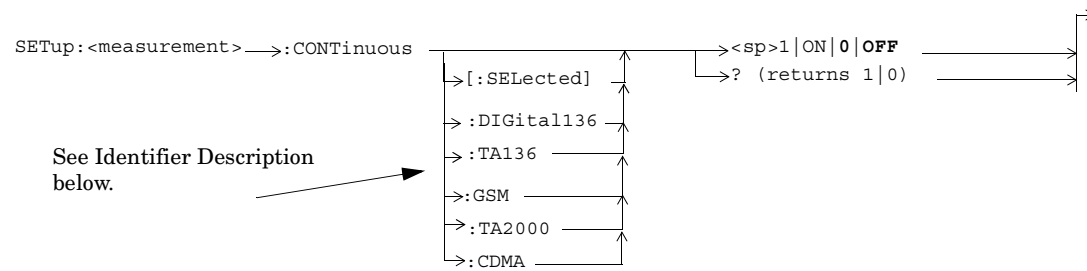


Diagram Description

Statement elements are connected by lines. Each line can be followed in only one direction, as indicated by the arrow at the end of the line. Any combination of statement elements that can be generated by starting at the **Root Element** and following the line the **direction of the arrow** is syntactically correct. The drawings show the proper use of spaces. Where spaces are required they are indicated by **<sp>**, otherwise no spaces are allowed between statement elements.

Complex Command Description

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

Identifier Description

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

Developing Code

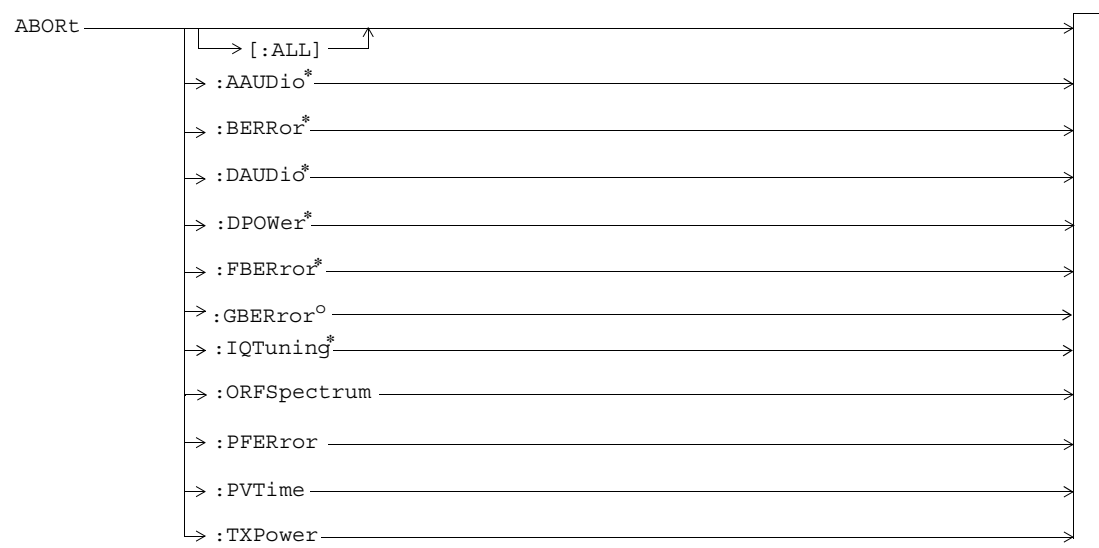
It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

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

Units-of-Measure

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

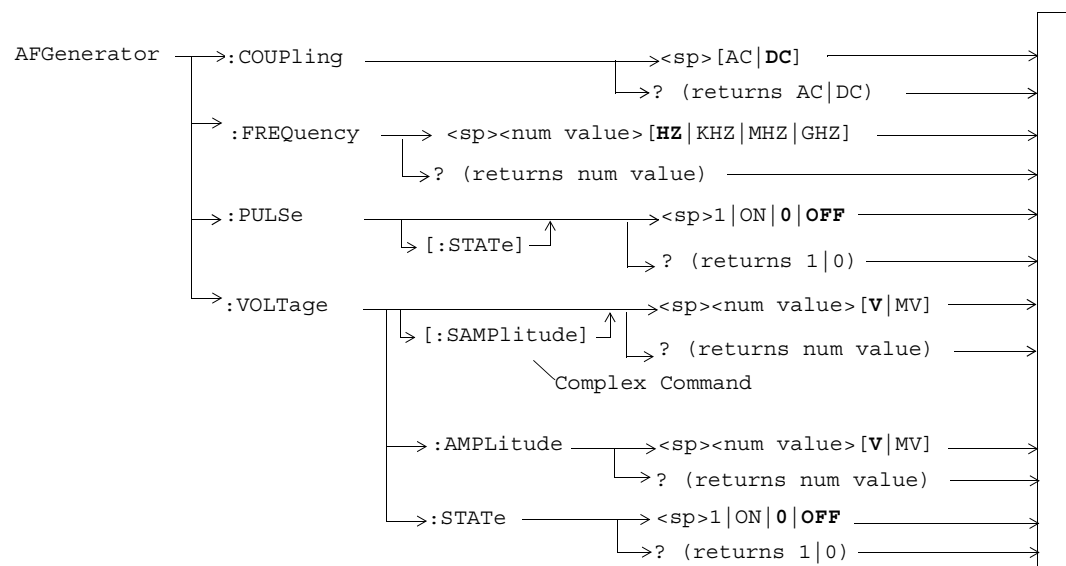
ABORT



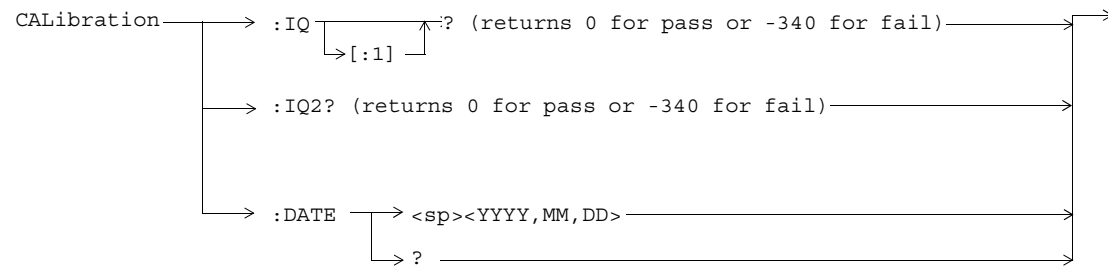
* Not applicable to GPRS.

° Not applicable to GSM.

AFGenerator



CALibration

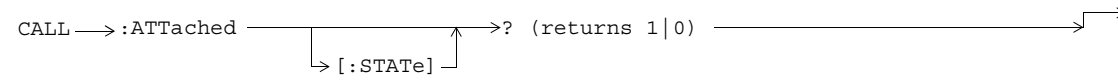


CALL:ACTivated

CALL [:CELL] :ACTivated [:STATe] <sp>1|ON|0|OFF ? (returns 1|0)

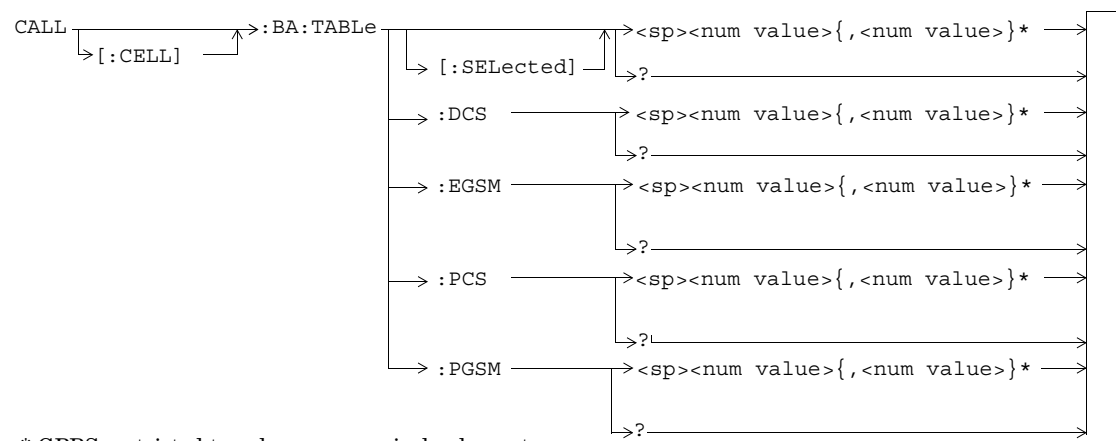
This command is not applicable to GPRS.

CALL:ATTached

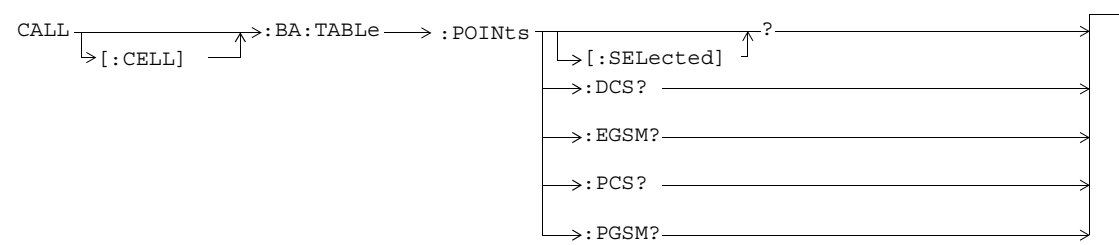


This diagram is not applicable to GSM.

CALL:BA

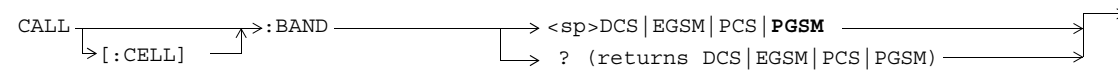


* GPRS restricted to only one numerical value entry.

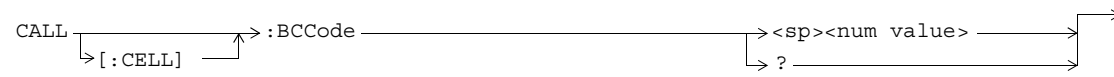


These commands are not applicable to GPRS.

CALL:BAND

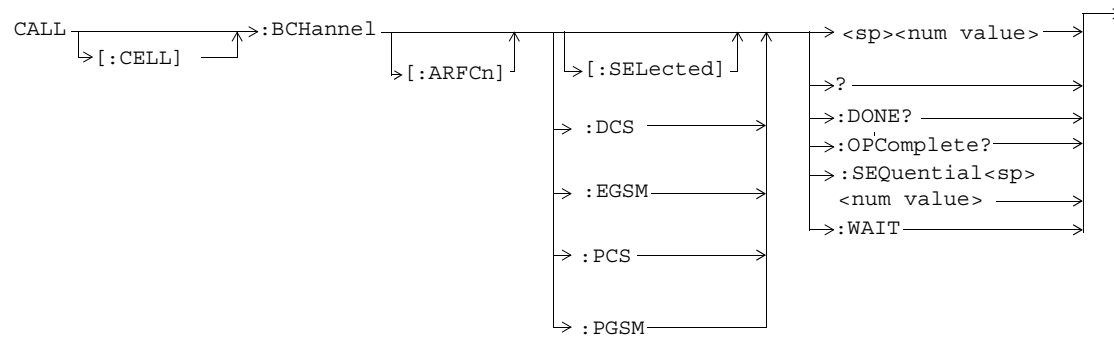


CALL:BCCode

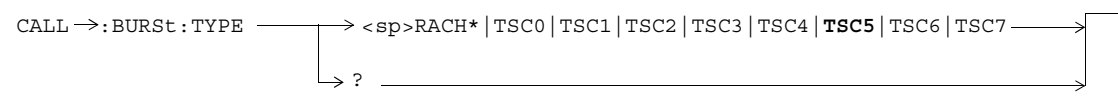
CALL  :BCCode <sp><num value> ?

This command is not applicable to GPRS.

CALL:BCHannel

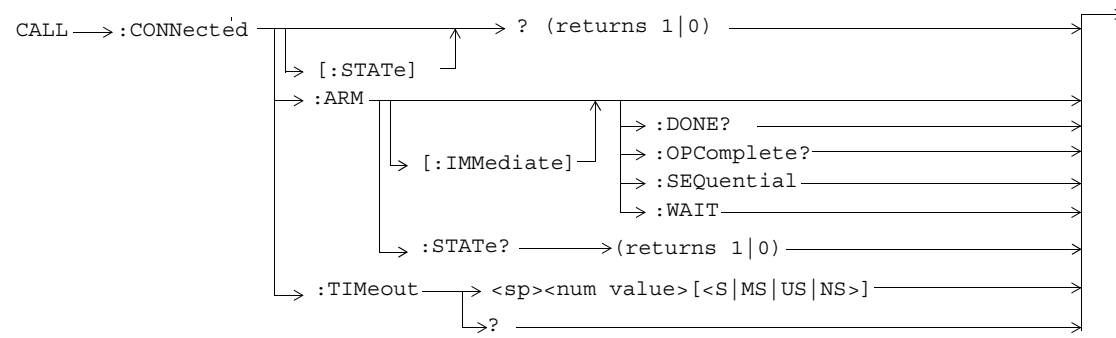


CALL:BURSt



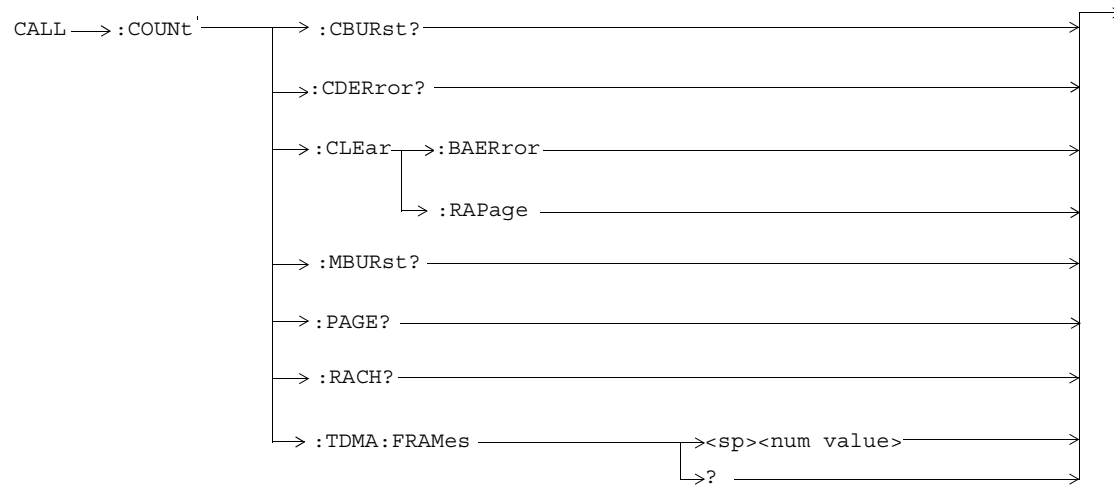
* Not applicable to GPRS.

CALL:CONNEcted

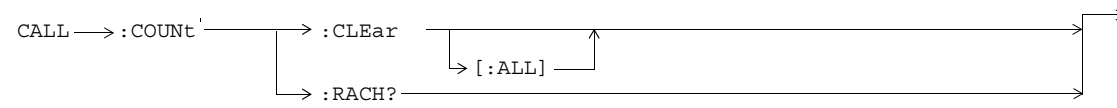


These commands are not applicable to GPRS.

CALL:COUNT

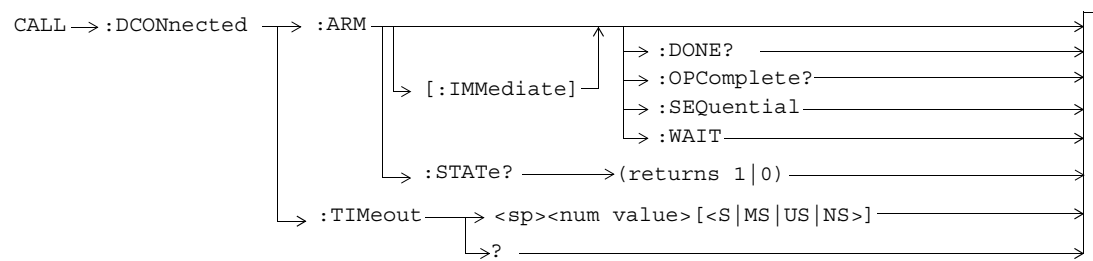


These commands are not applicable to GPRS.



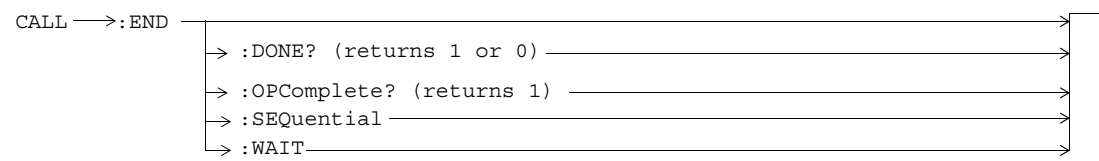
These commands are not applicable to GSM.

CALL:DCONnected



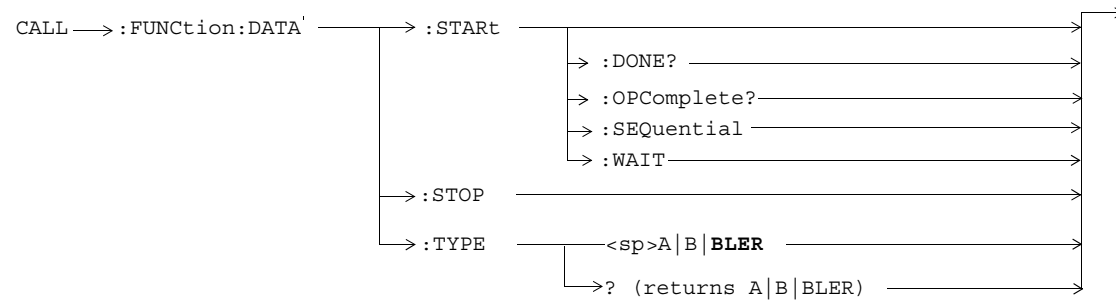
These commands are not applicable to GSM.

CALL:END



These commands are not applicable to GPRS.

CALL:FUNCTION

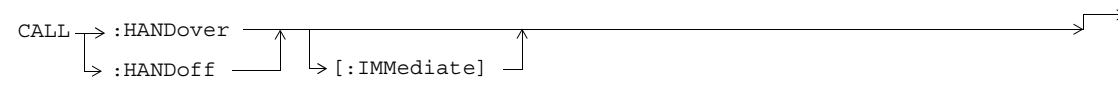


These commands are not applicable to GSM.

CALL → :FUNCTION:DOWNlink → <sp>**BCH**|BCHTCH|CW →
→? (returns BCH|BCHTCH|CW) →

This command is not applicable to GPRS.

CALL:HANDover | HANDoff



This command is not applicable to GSM.

CALL:IMEI

CALL → :IMEI:AUTO →
 <sp>1|ON|0|OFF →
 ? (returns 1|0) →

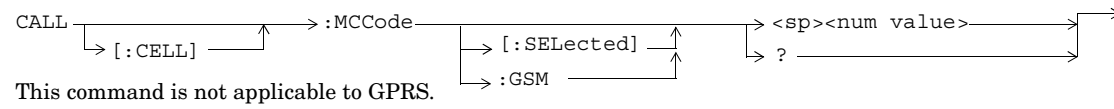
This command is not applicable to GPRS.

CALL:LACode

CALL [:CELL] :LACode <sp><num value> ?

This command is not applicable to GPRS.

CALL:MCCode

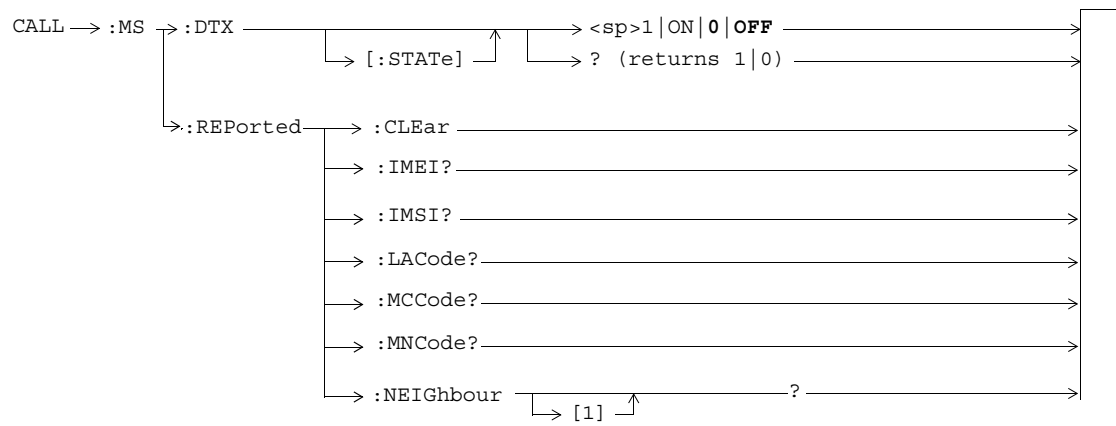


CALL:MNCcode

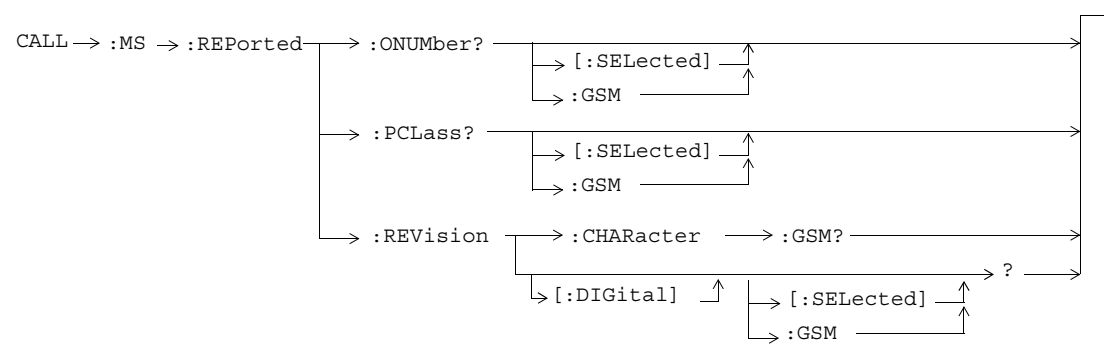
CALL [:CELL] :MNCcode <sp><num value> ?

This command is not applicable to GPRS.

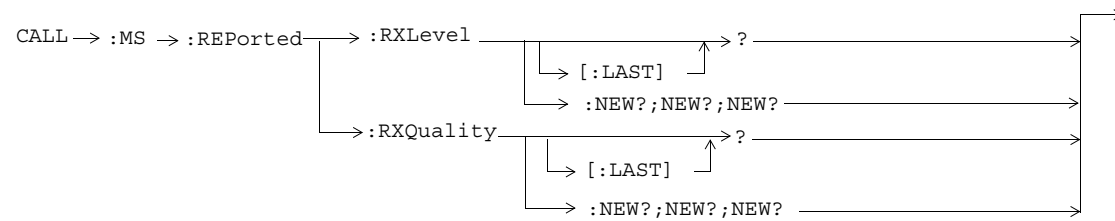
CALL:MS



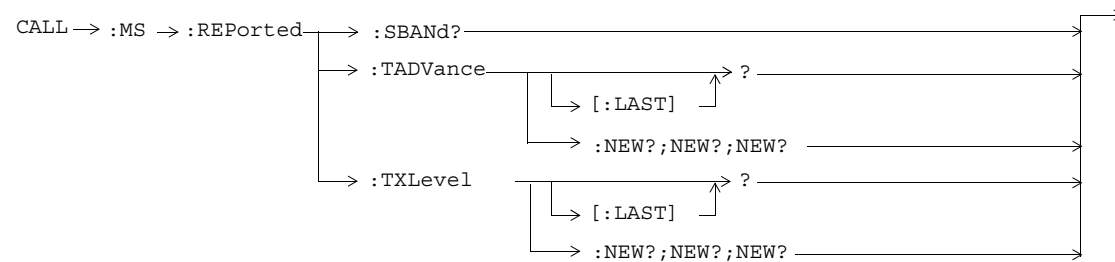
These commands are not applicable to GPRS.

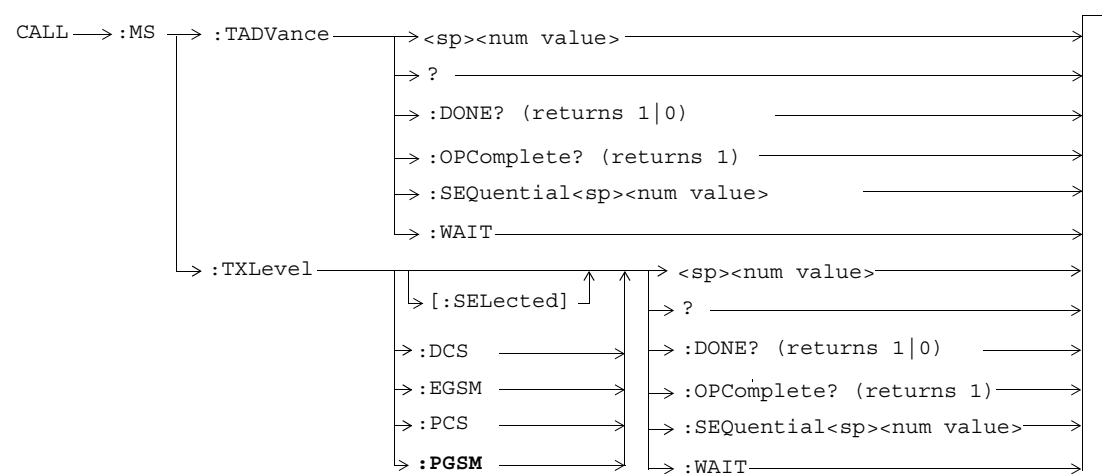


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.



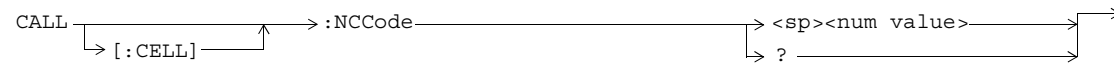


These commands are not applicable to GPRS.

CALL → :MS → :TX → :BURSt → :GPLength → ><sp>GPL9 | GPL10 →
→ ? (returns GPL9 | GPL10) →

These commands are not applicable to GSM.

CALL:NCCode



This command is not applicable to GPRS.

CALL:OPERating

CALL → :OPERating:MODE → <sp>**CELL** | OFF | PBTest | PBPTest →
→ ? →

This command is not applicable to GSM.

CALL → :OPERating:MODE → <sp>**CELL** | TEST →
→ ? →

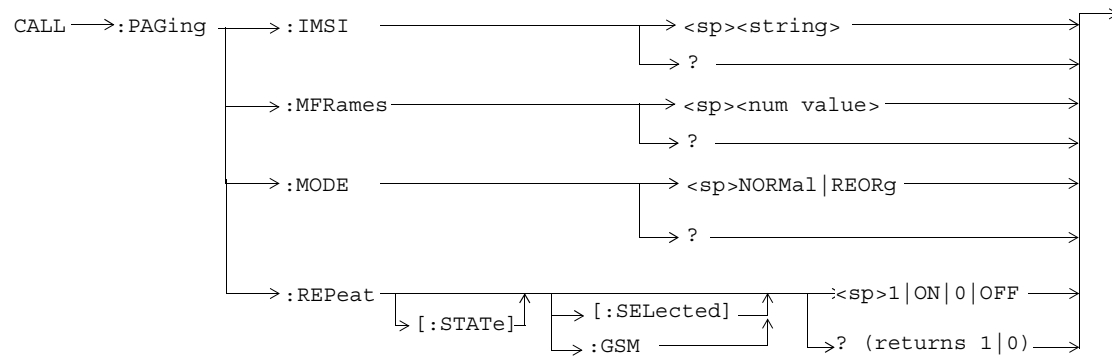
This command is not applicable to GPRS.

CALL:ORIGinate



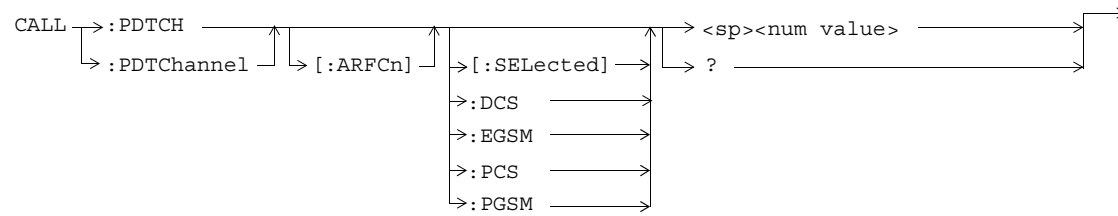
These commands are not applicable to GPRS.

CALL:PAGing

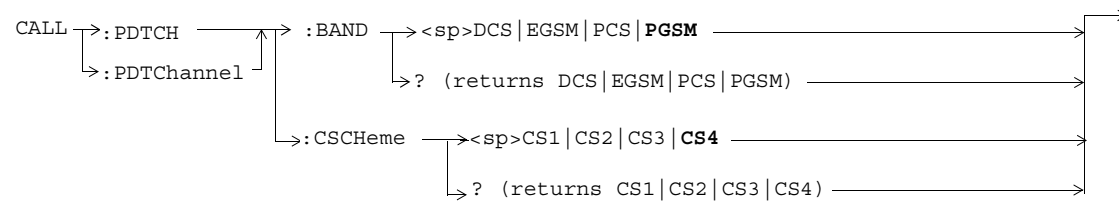


These commands are not applicable to GPRS.

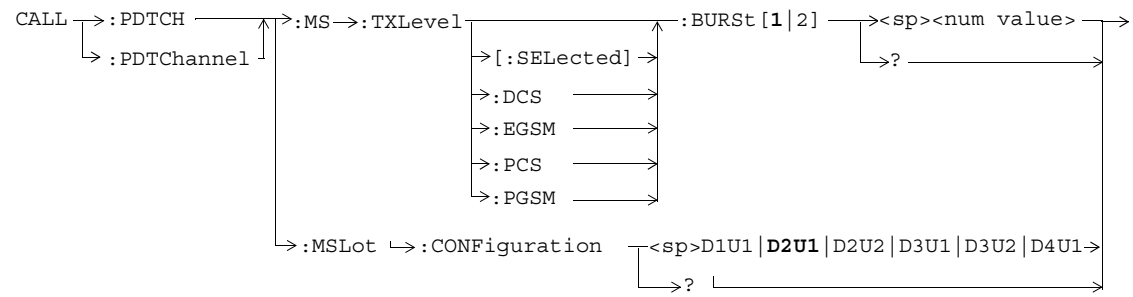
CALL:PDTCH | PDTChannel



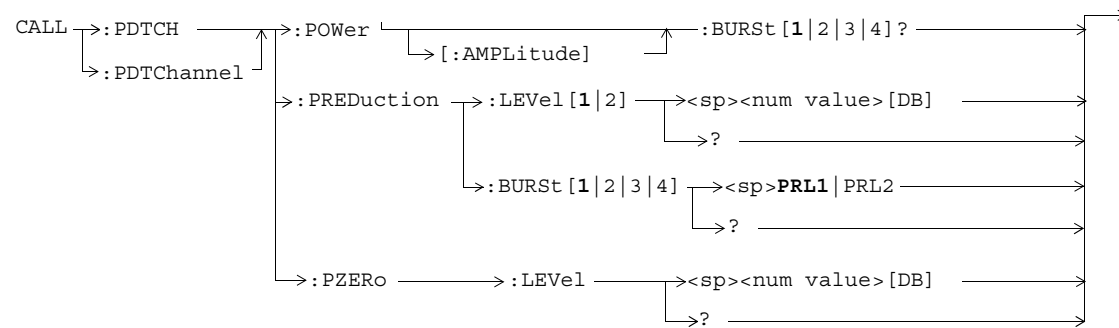
These commands are not applicable to GSM.



These commands are not applicable to GSM.

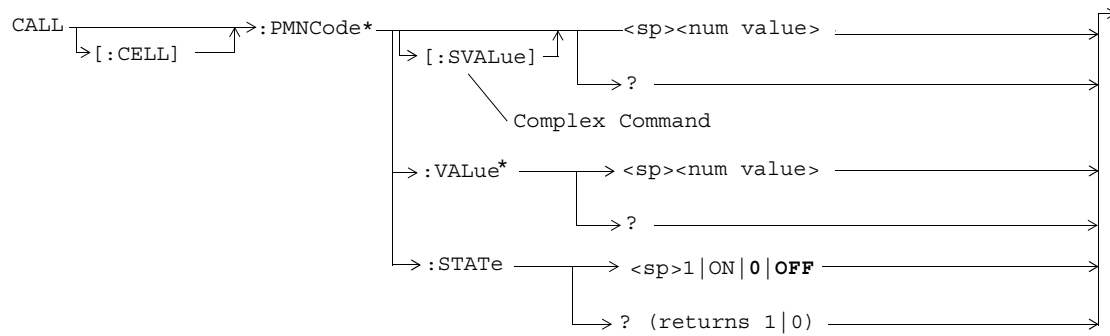


These commands are not applicable to GSM.



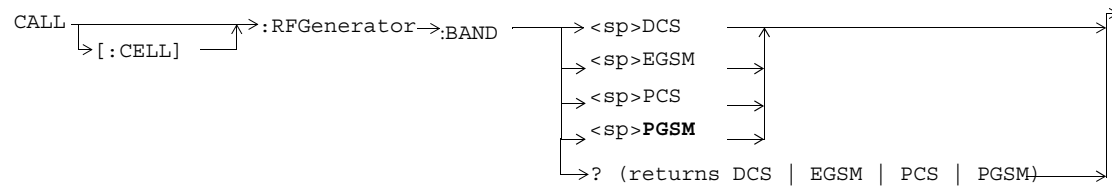
These commands are not applicable to GSM.

CALL:PMNCode

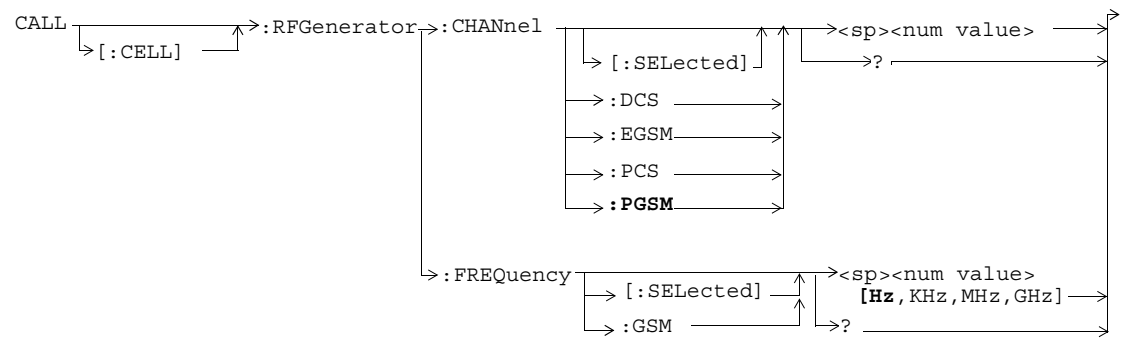


*These commands are not applicable to GPRS.

CALL:RFGenerator

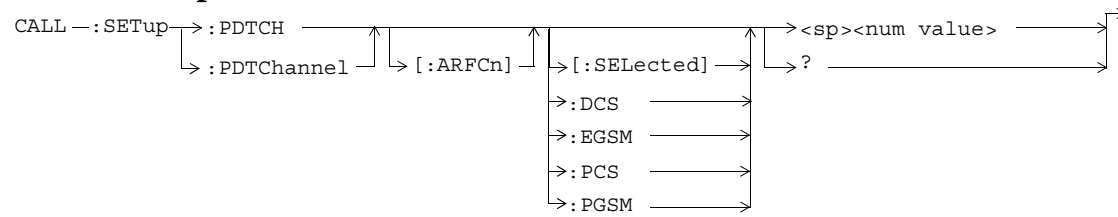


These commands are not applicable to GPRS.

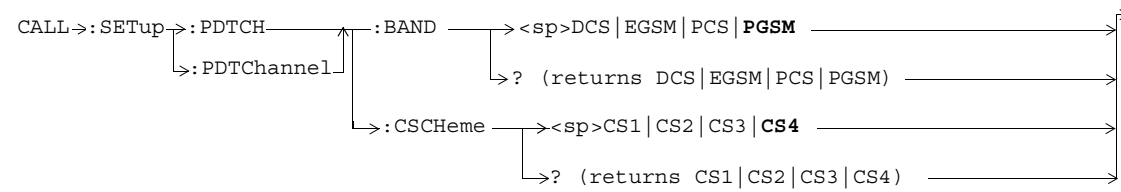


These commands are not applicable to GPRS.

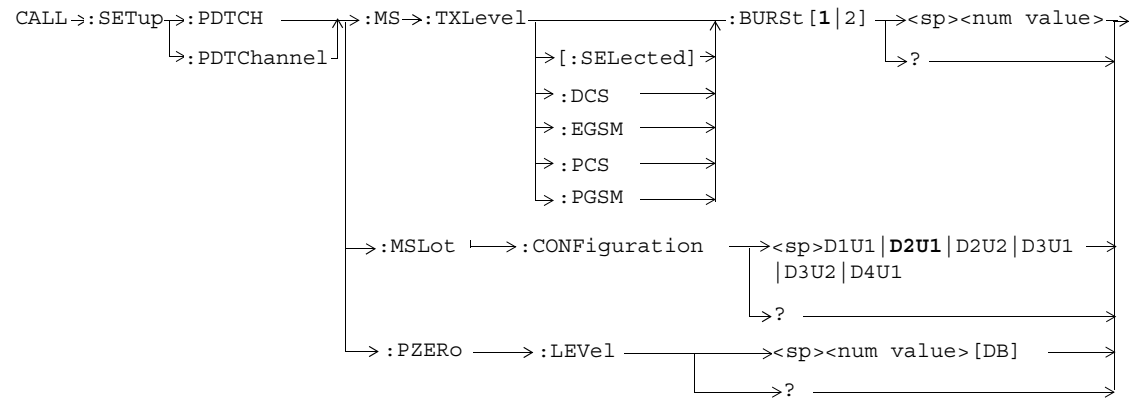
CALL:SETup



These commands are not applicable to GSM.



These commands are not applicable to GSM.



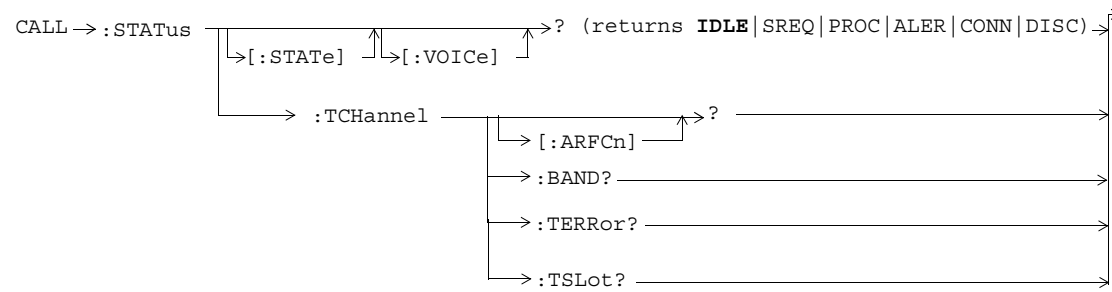
These commands are not applicable to GSM.

CALL:SIGNaling

CALL →:SIGNaling→:MS →:TXLevel→:FACCH →<sp><1|ON|0|OFF> →
↳? (returns 1|0) →

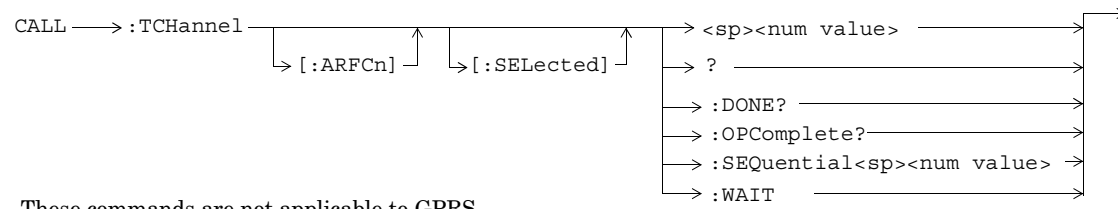
This command is not applicable to GPRS.

CALL:STATUs

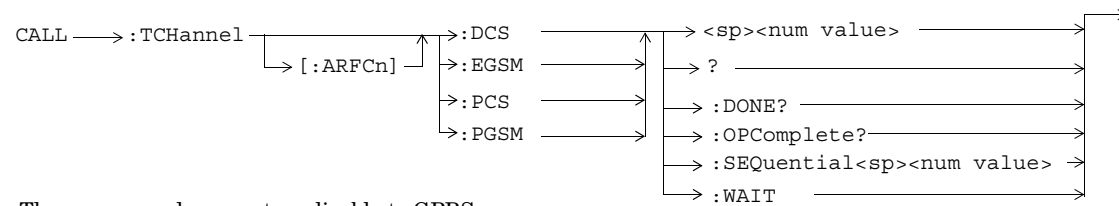


These commands are not applicable to GPRS.

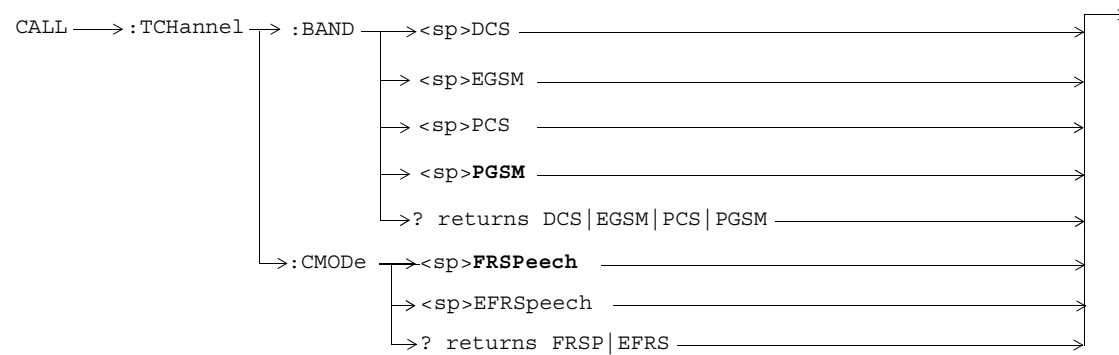
CALL:TCHannel



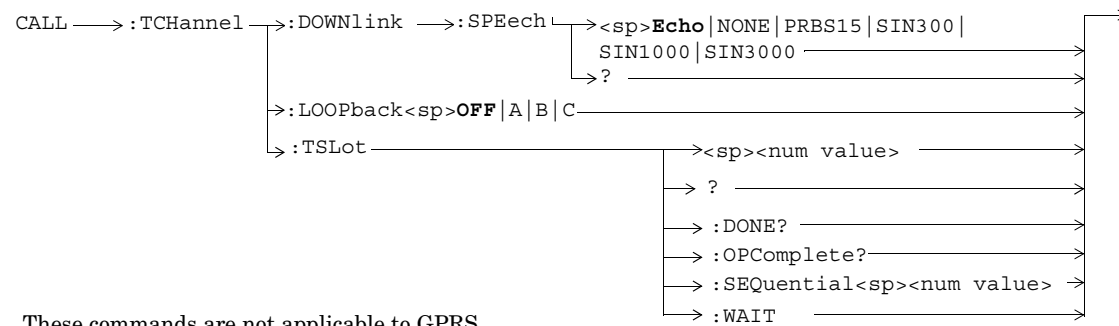
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

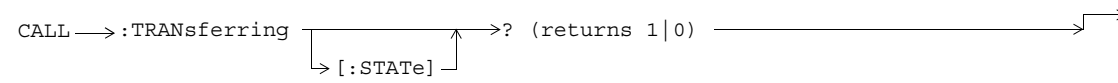


These commands are not applicable to GPRS.



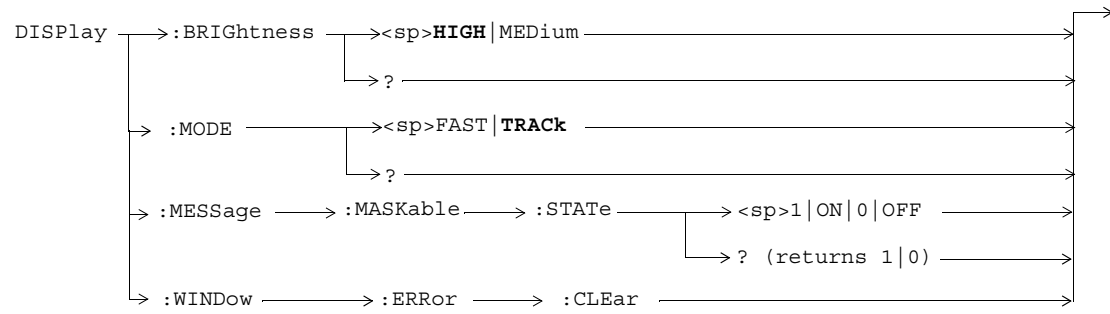
These commands are not applicable to GPRS.

CALL:TRANsferring

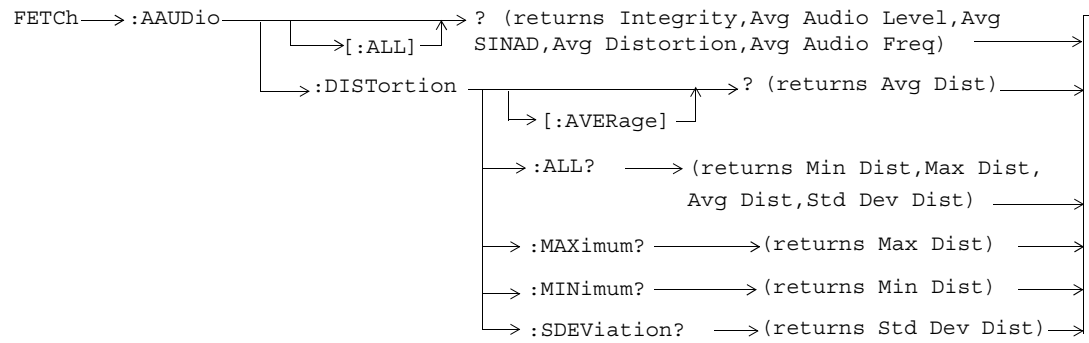


This diagram is not applicable to GSM.

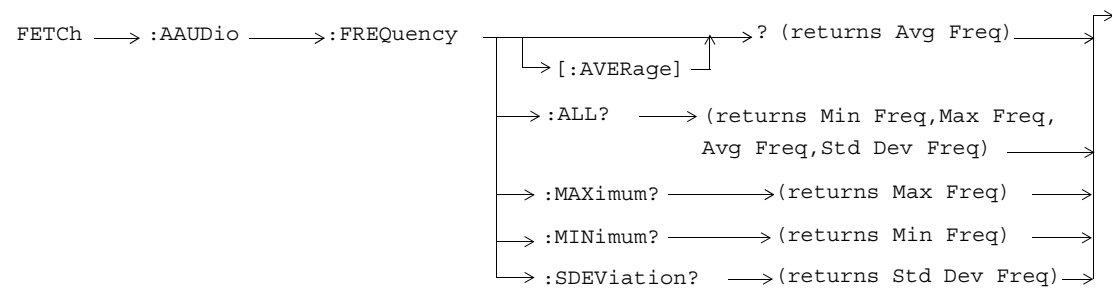
DISPlay



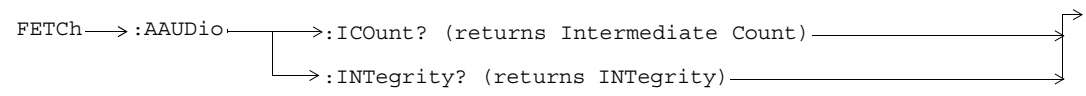
FETCH:AAUDIO



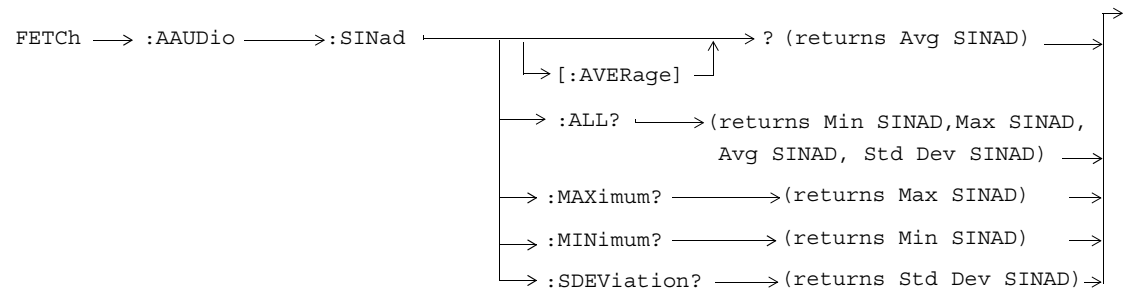
These commands are not applicable to GPRS.



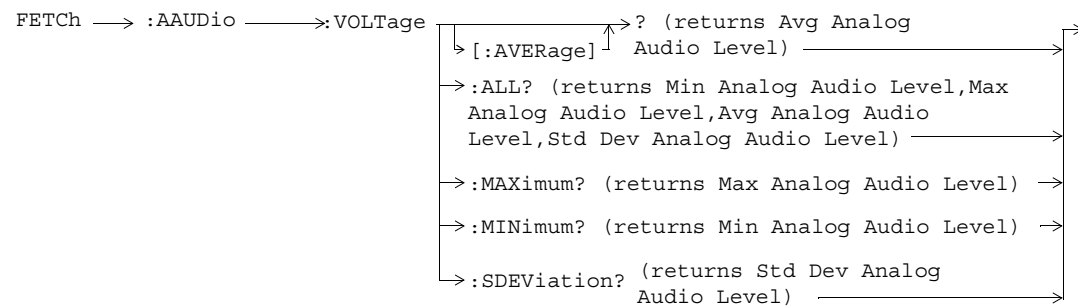
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

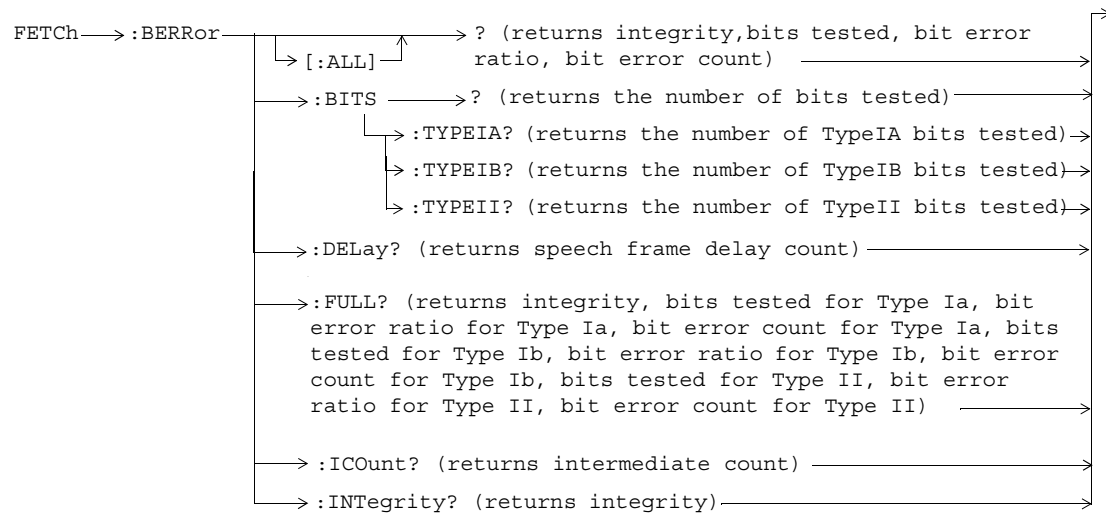


These commands are not applicable to GPRS.

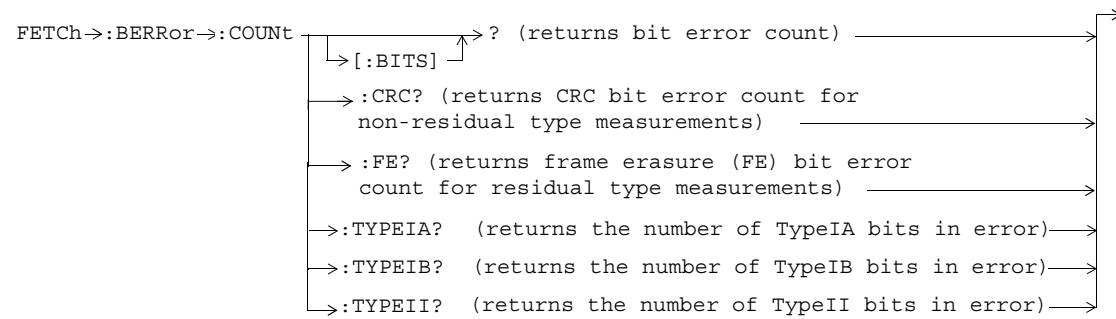


These commands are not applicable to GPRS.

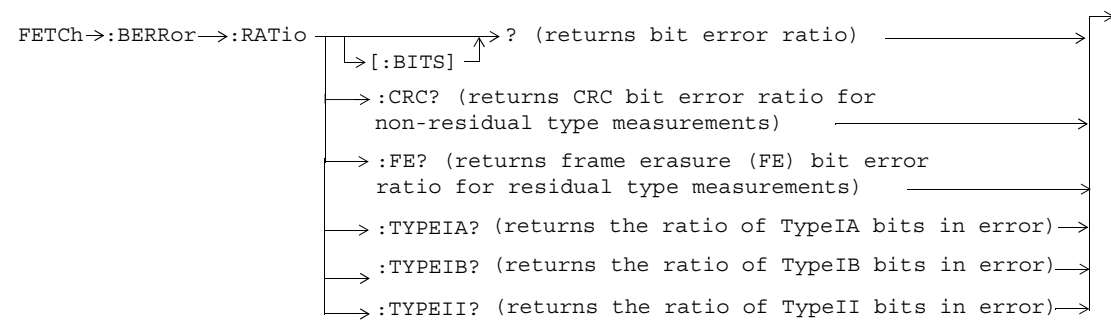
FETCH:BERRor



These commands are not applicable to GPRS.

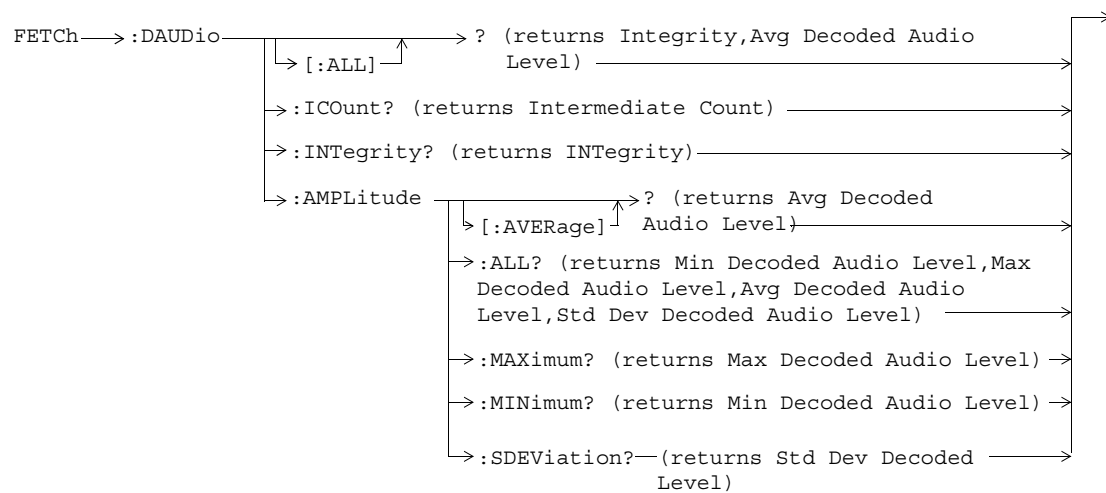


These commands are not applicable to GPRS.



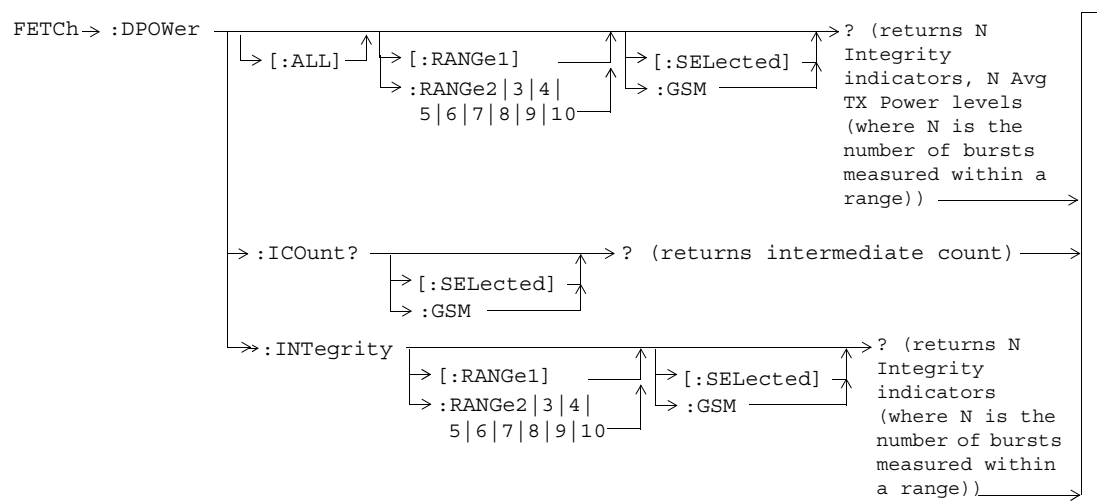
These commands are not applicable to GPRS.

FETCh:DAUDio

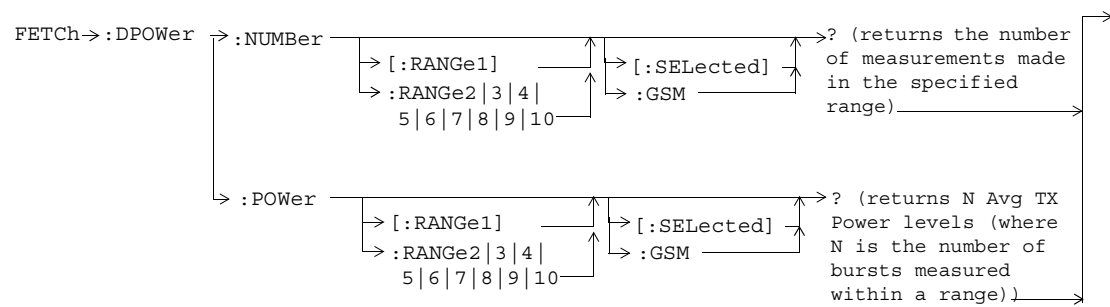


These commands are not applicable to GPRS.

FETCH:DPOWER

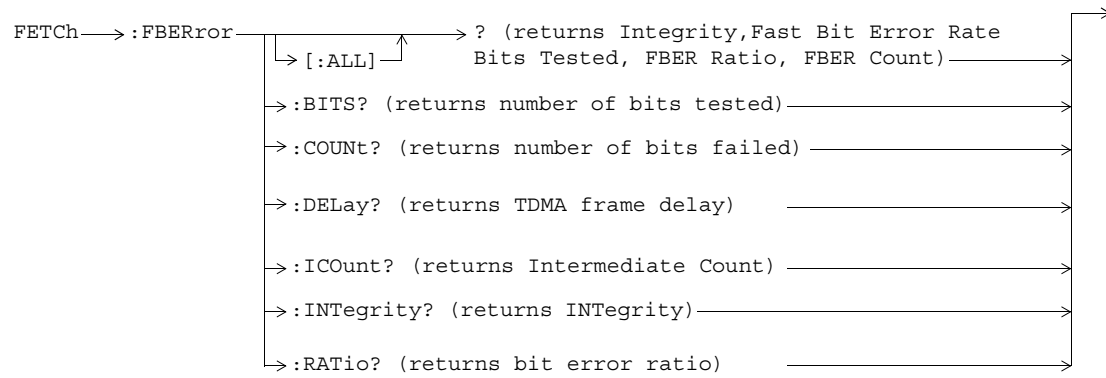


These commands are not applicable to GPRS.



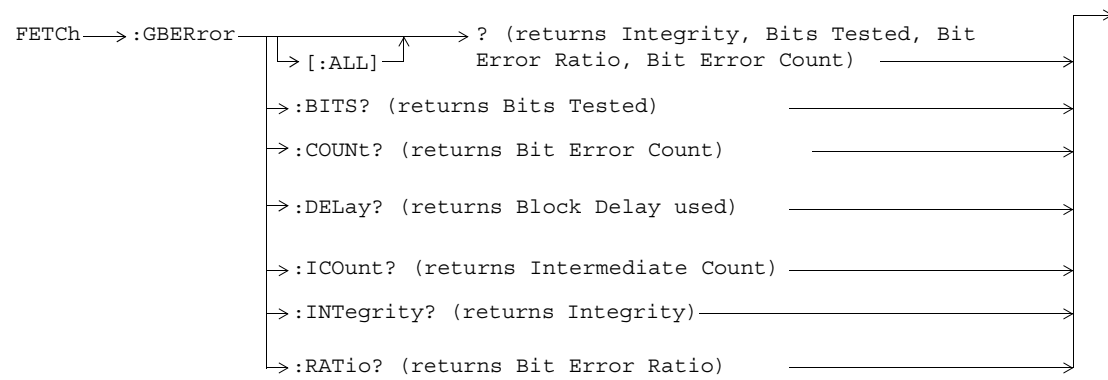
These commands are not applicable to GPRS.

FETCh:FBERror



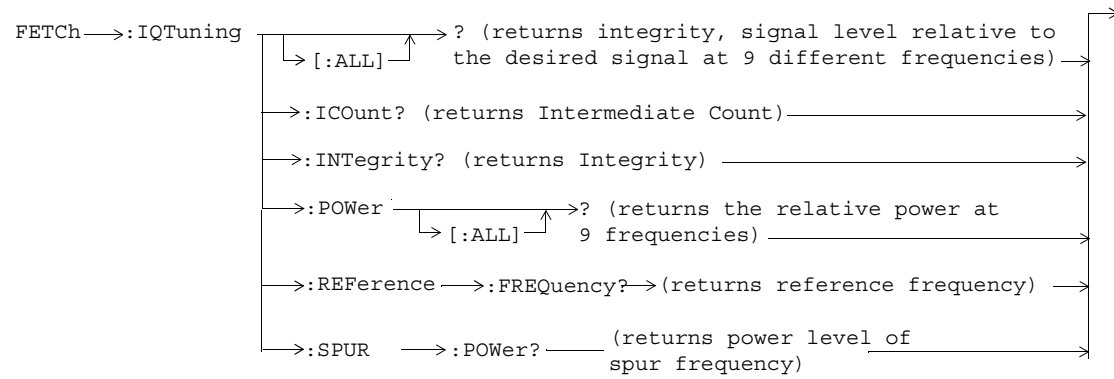
These commands are not applicable to GPRS.

FETCh:GBERror



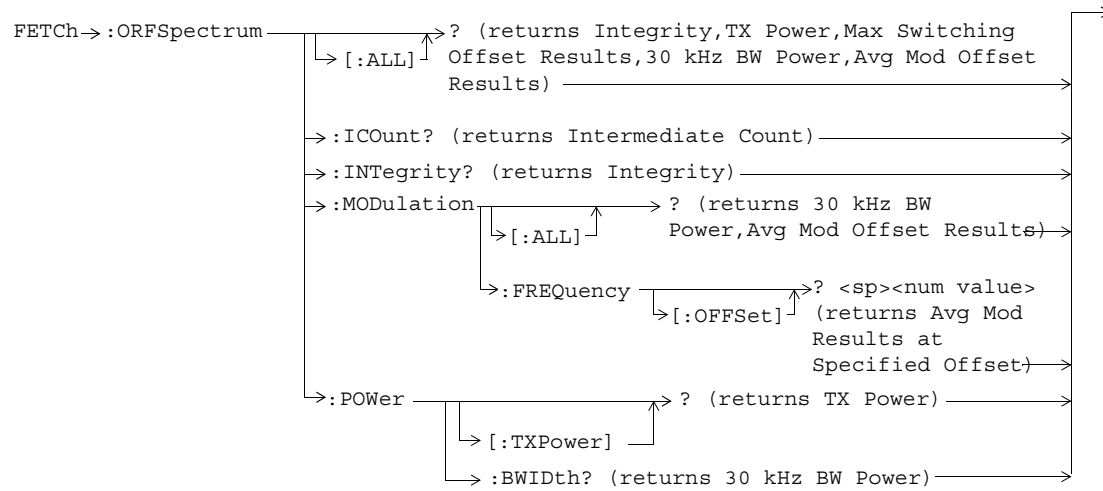
These commands are not applicable to GSM.

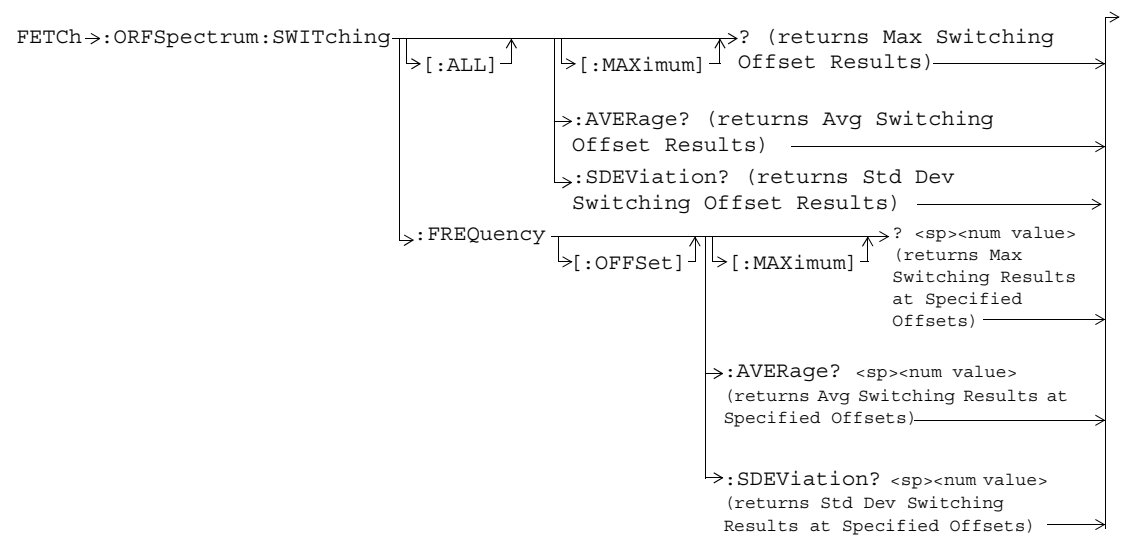
FETCH:IQTuning



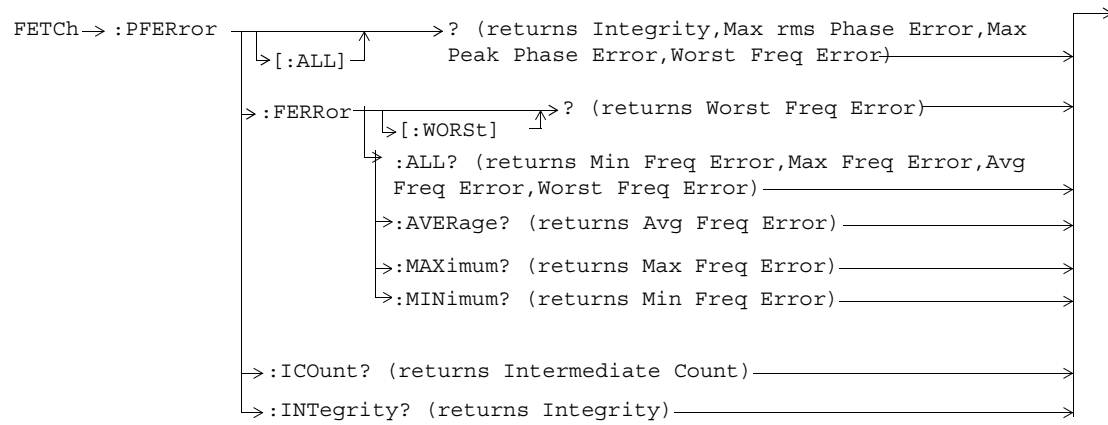
These commands are not applicable to GPRS.

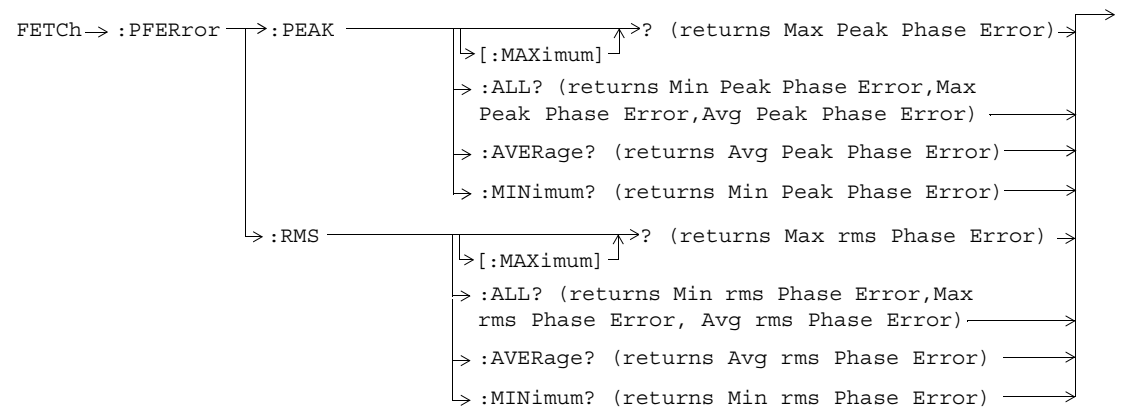
FETCH:ORFSpectrum



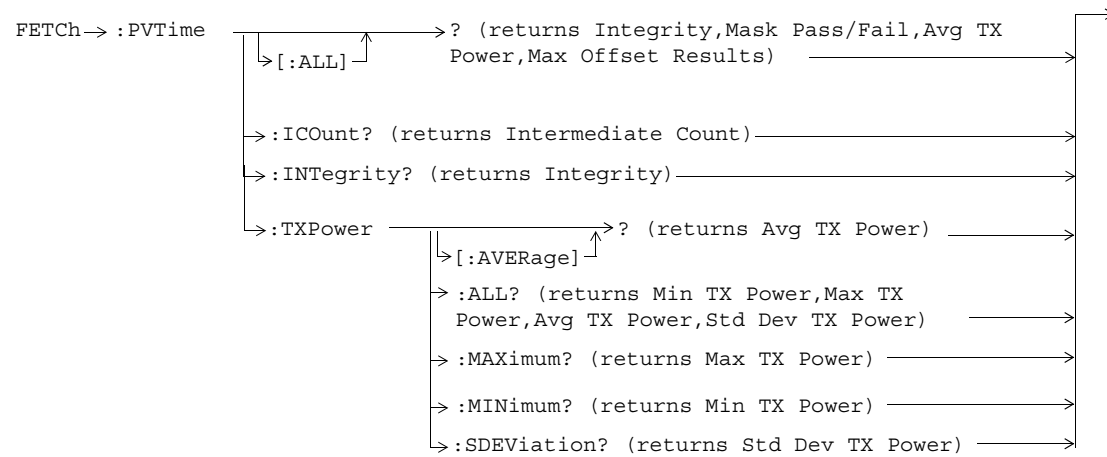


FETCH:PFERror

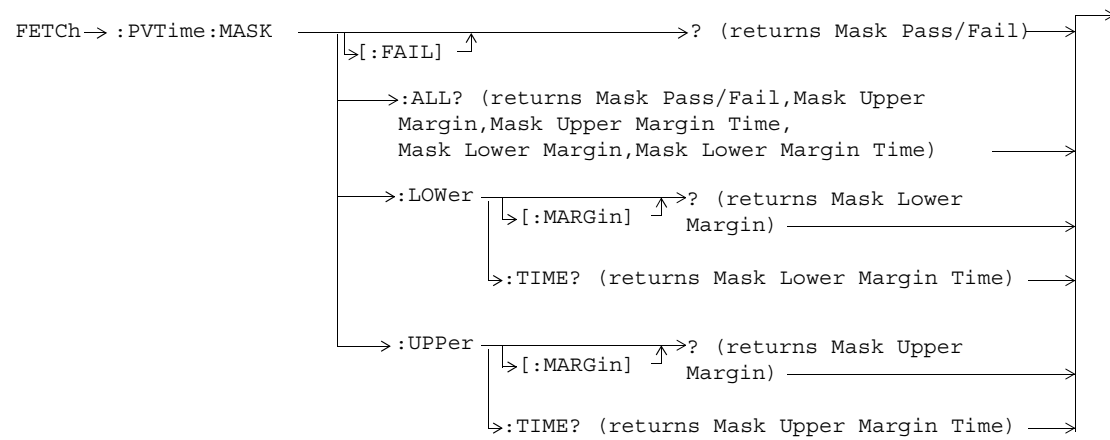




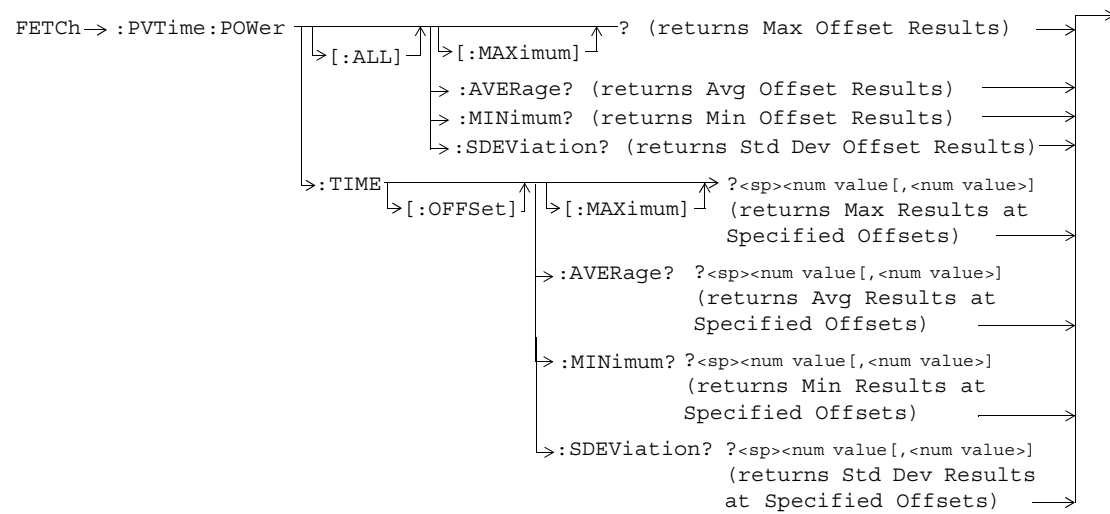
FETCH:PVTime



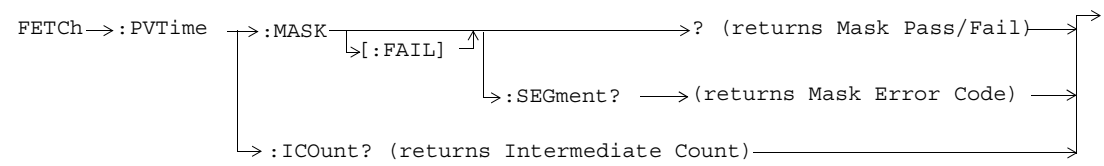
These commands are not applicable to GPRS.



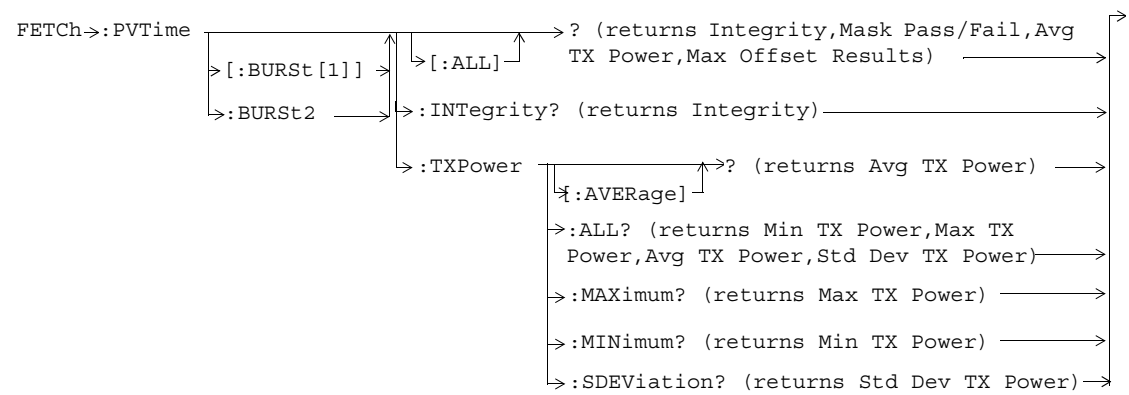
These commands are not applicable to GPRS.



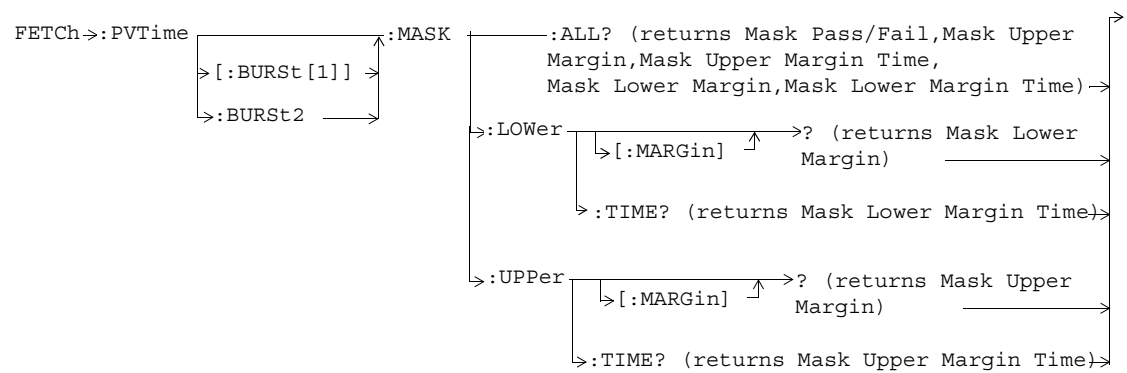
These commands are not applicable to GPRS.



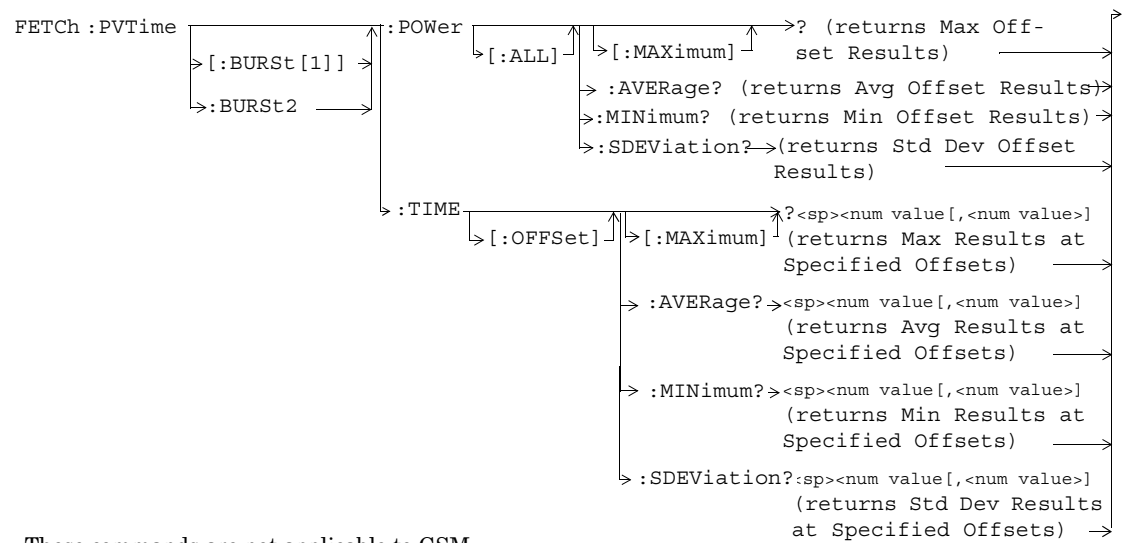
These commands are not applicable to GSM.



These commands are not applicable to GSM.

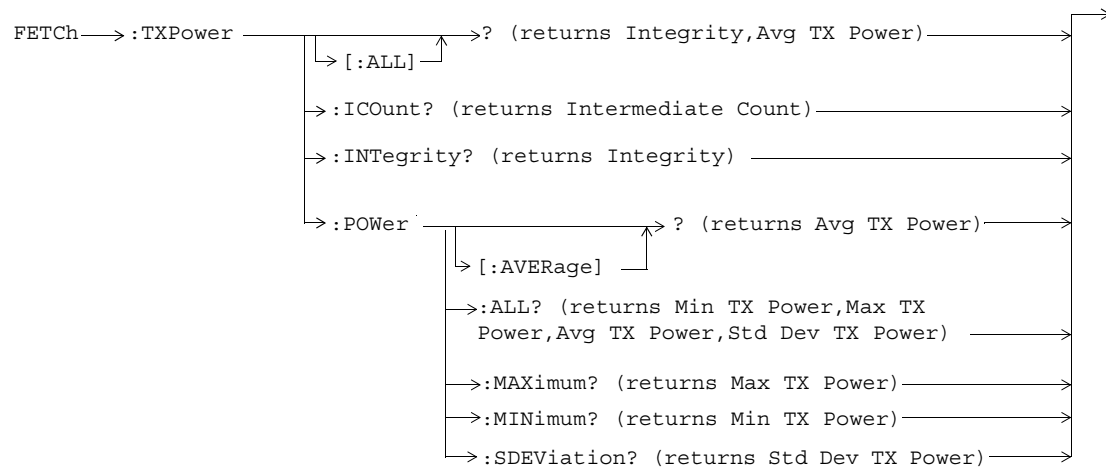


These commands are not applicable to GSM.

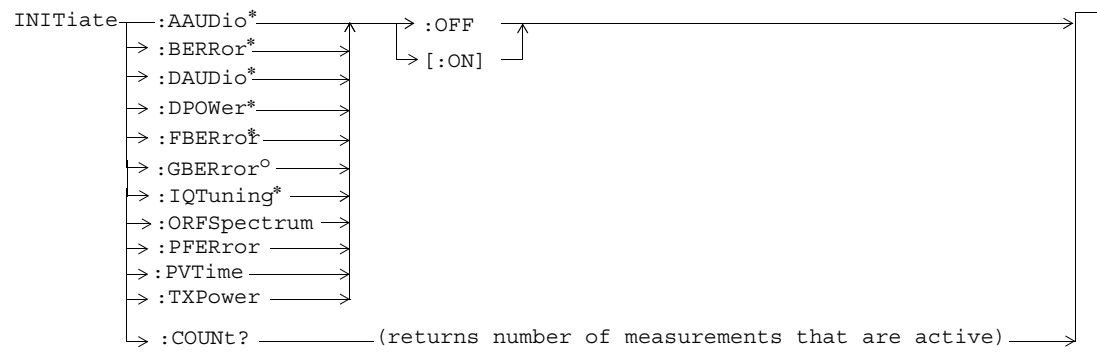


These commands are not applicable to GSM.

FETCH:TXPower

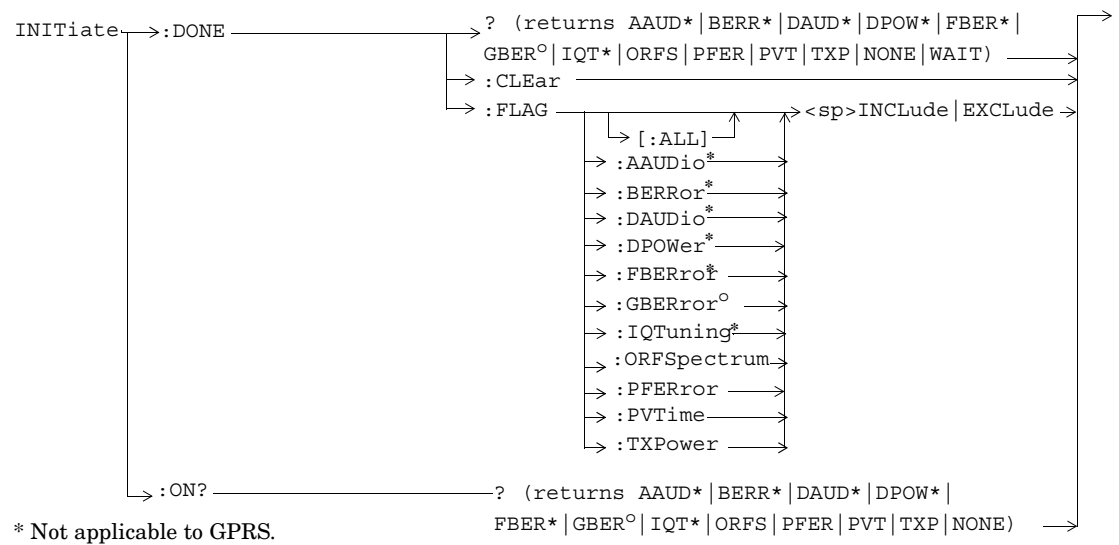


INITiate



* Not applicable to GPRS

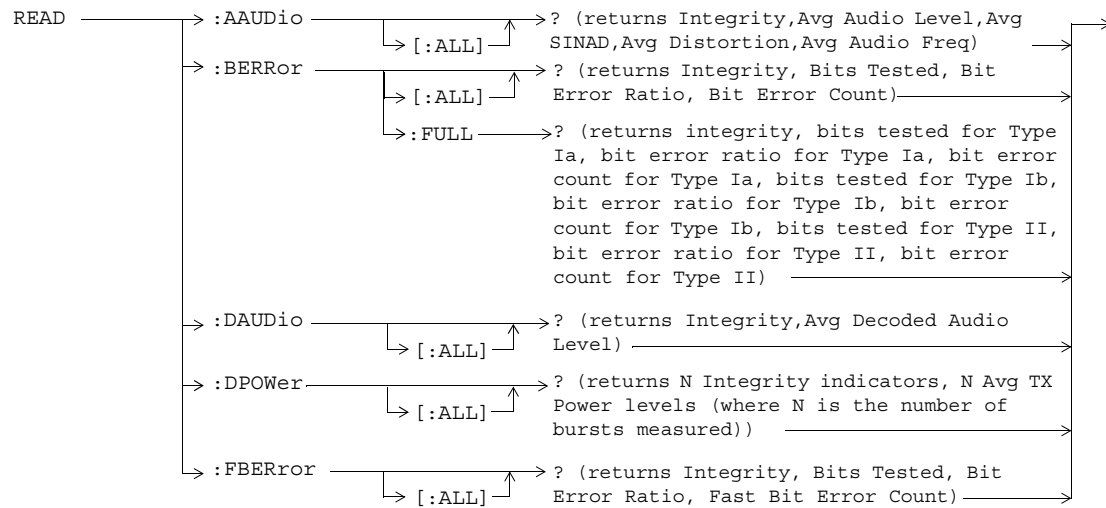
° Not applicable to GSM



* Not applicable to GPRS.

° Not applicable to GSM

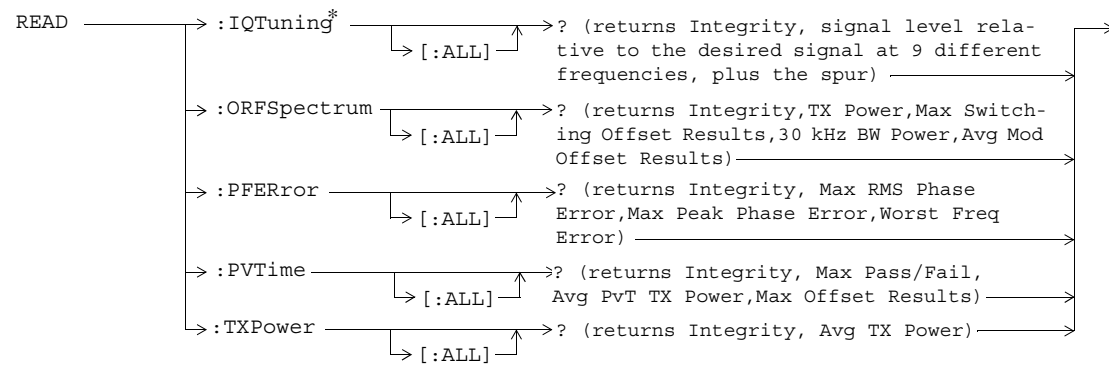
READ



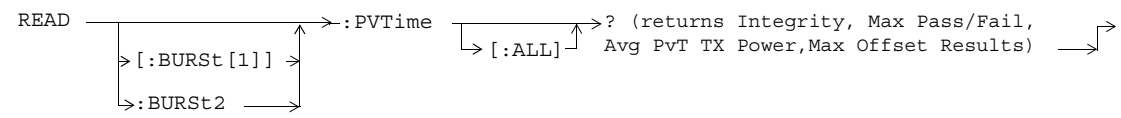
These commands are not applicable to GPRS.

READ → :GBError → ? (returns Integrity, Bits Tested, Bit Error Ratio, Bit Error Count) →
↳ [:ALL] ↵

* This command is not applicable to GSM.

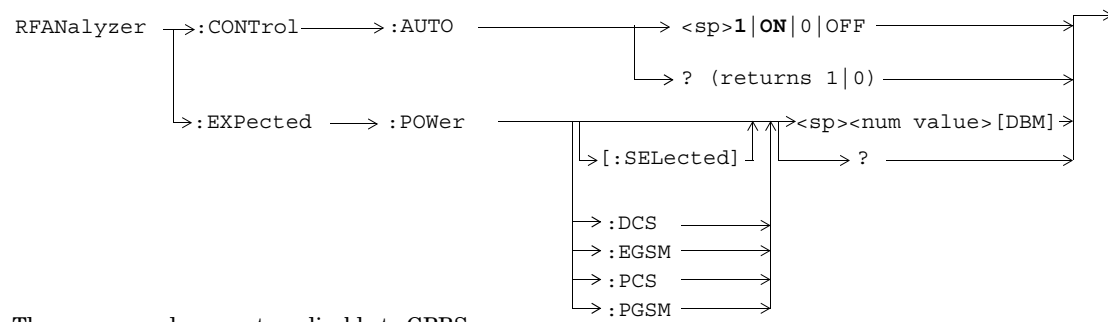


* Not applicable to GPRS.

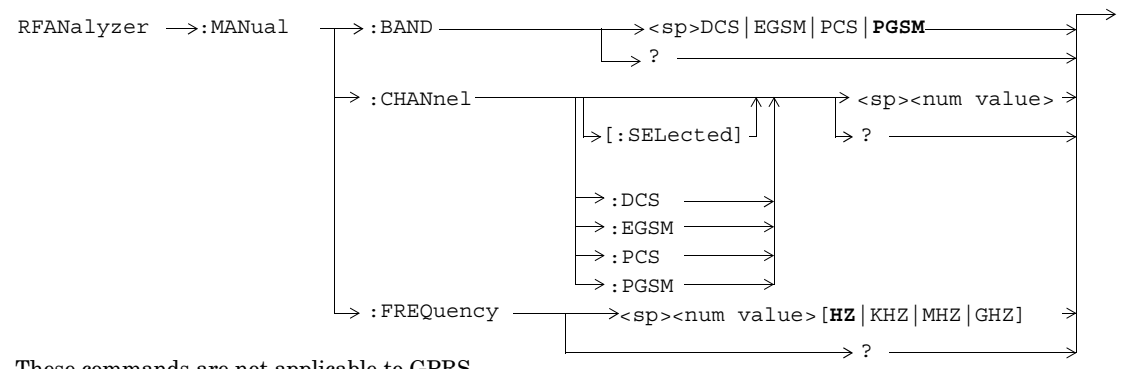


This command is not applicable to GSM.

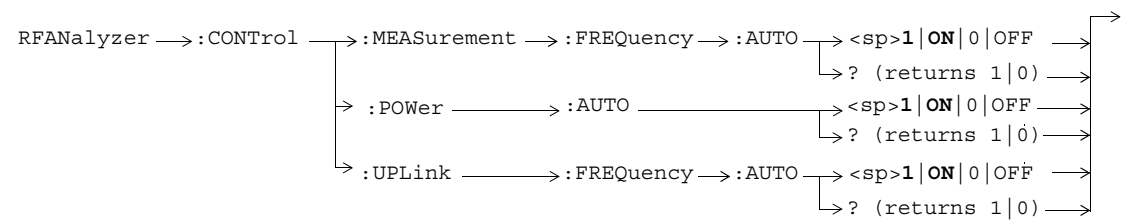
RFAnalyzer



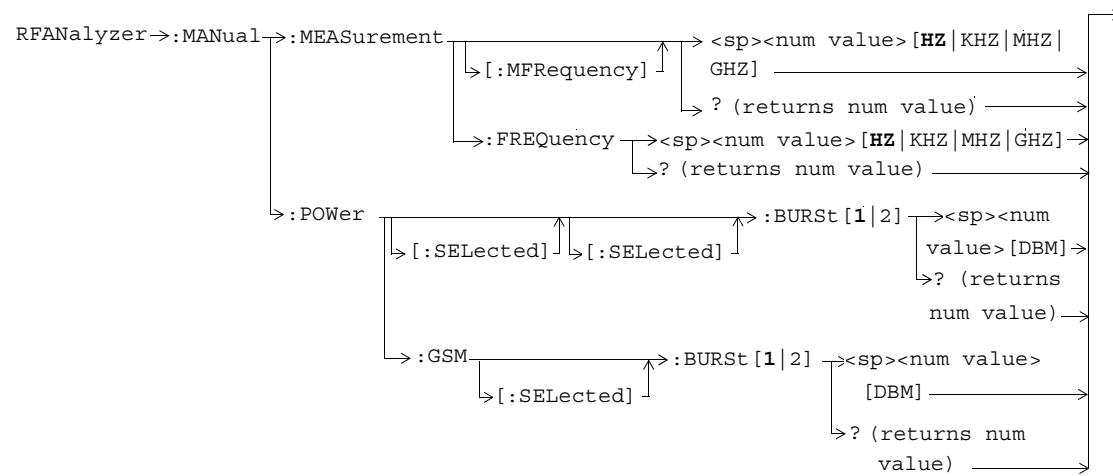
These commands are not applicable to GPRS.



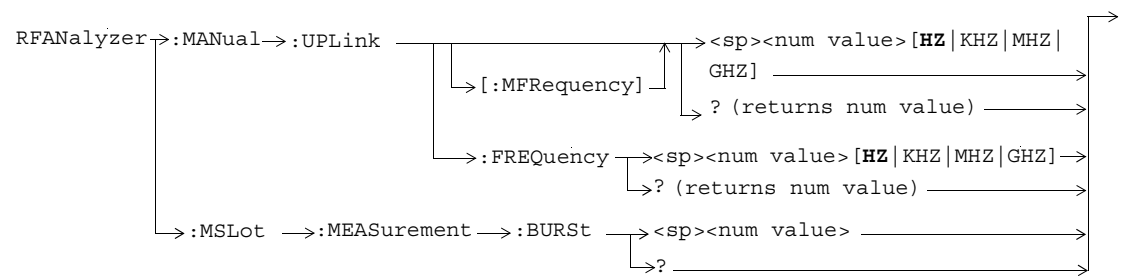
These commands are not applicable to GPRS.



These commands are not applicable to GSM.

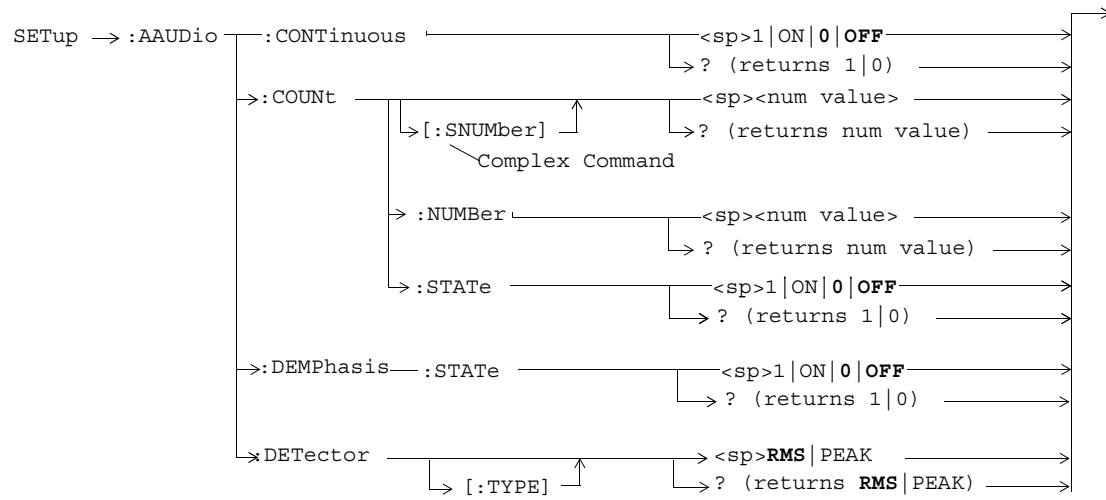


These commands are not applicable to GSM.

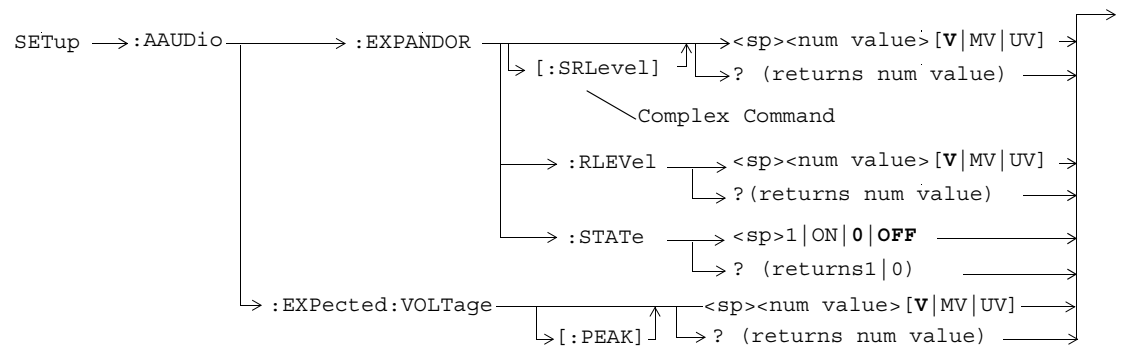


These commands are not applicable to GSM.

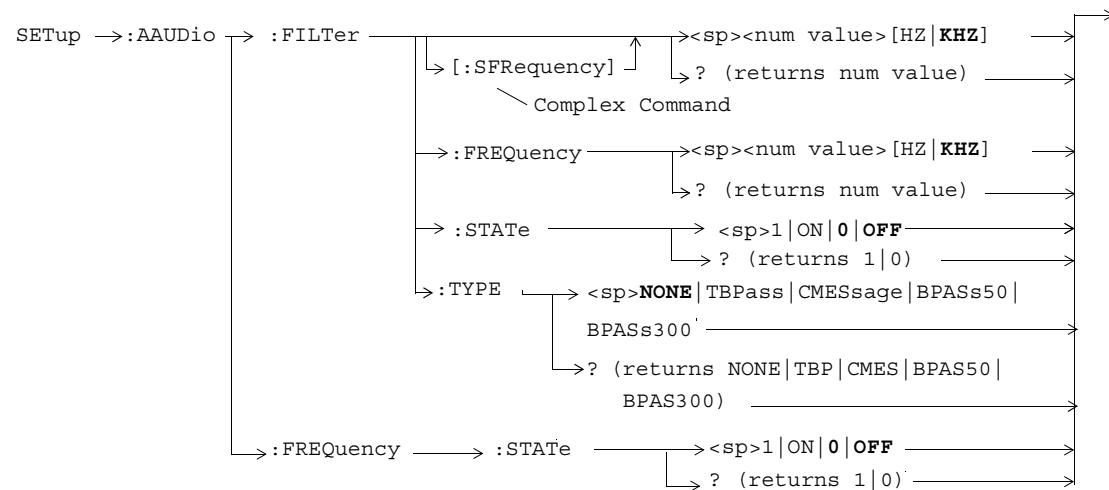
SETup:AAudio



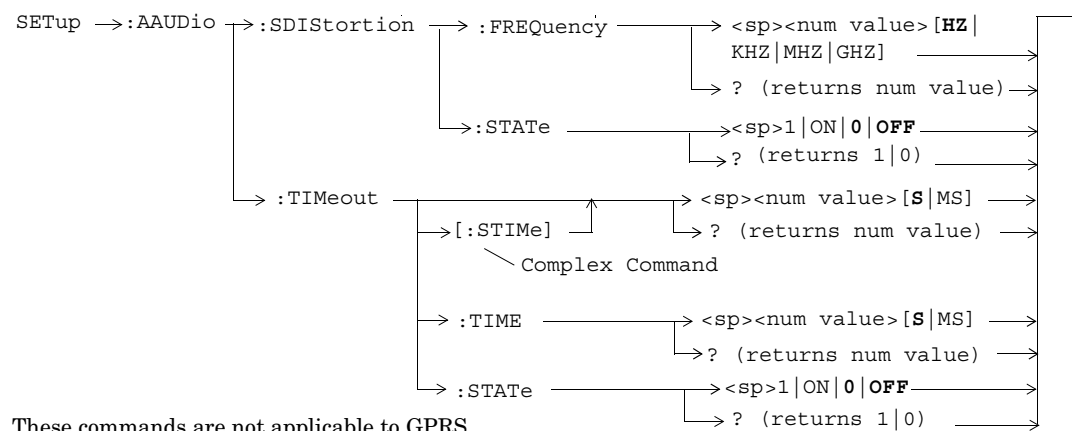
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

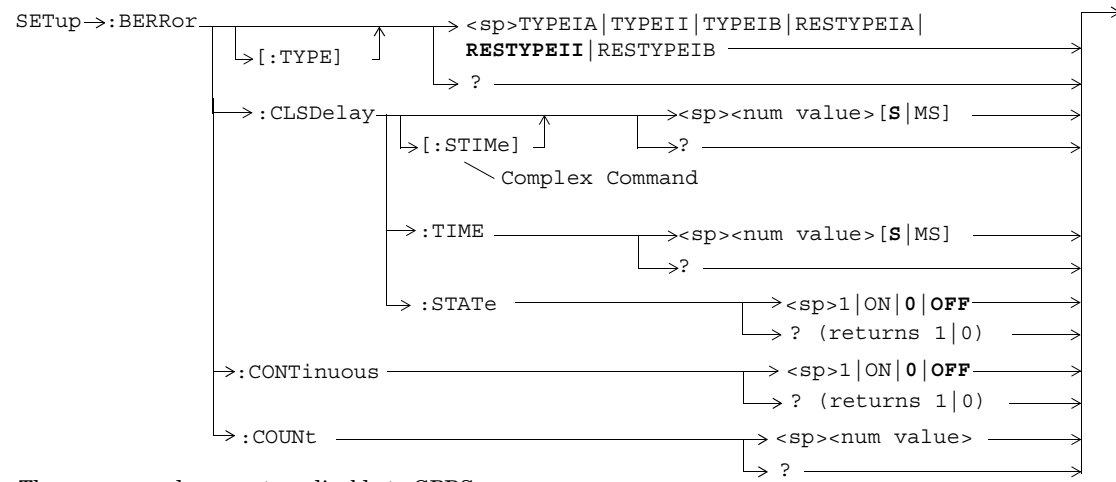


These commands are not applicable to GPRS.

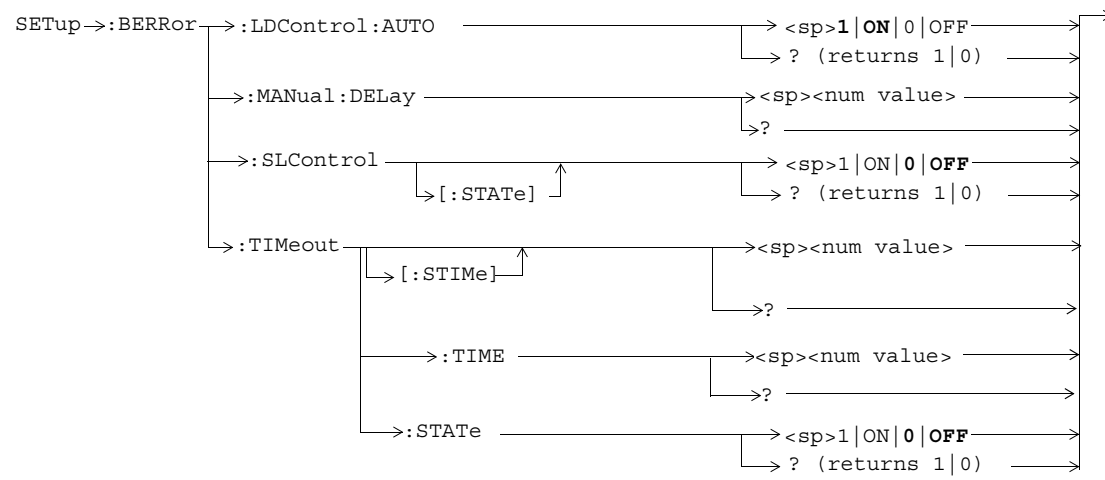


These commands are not applicable to GPRS.

SETup:BERRor

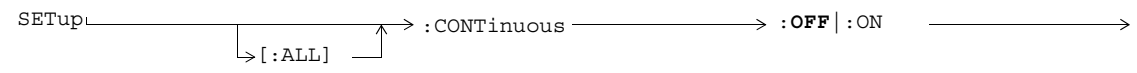


These commands are not applicable to GPRS.

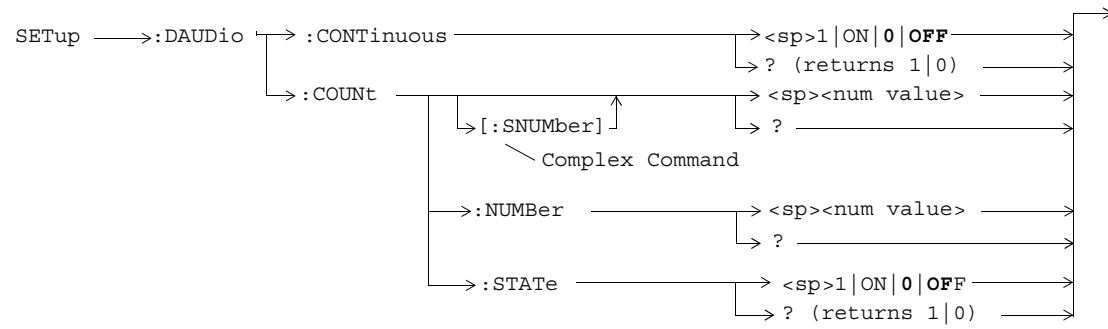


These commands are not applicable to GPRS.

SETup:CONTInuous

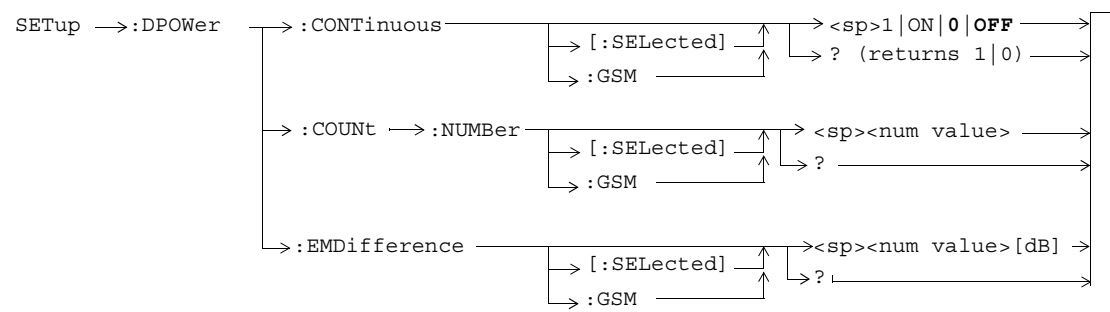


SETup:DAUDio

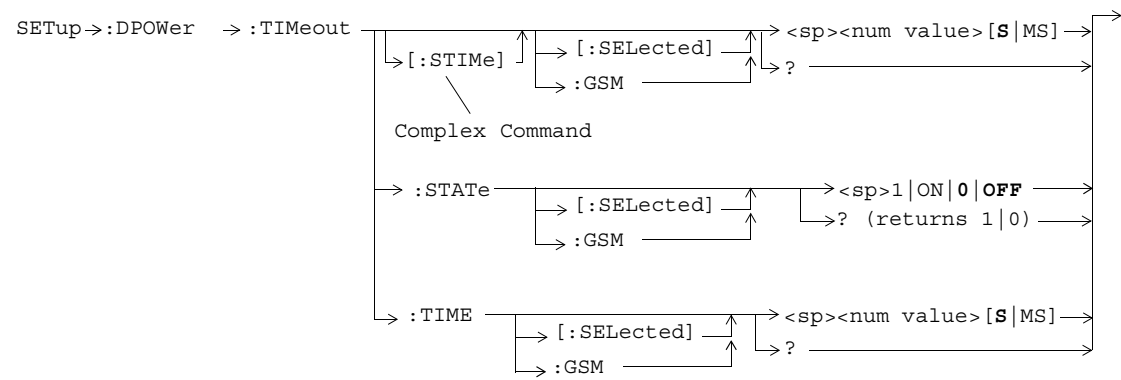


These commands are not applicable to GPRS.

SETup:DPOWER

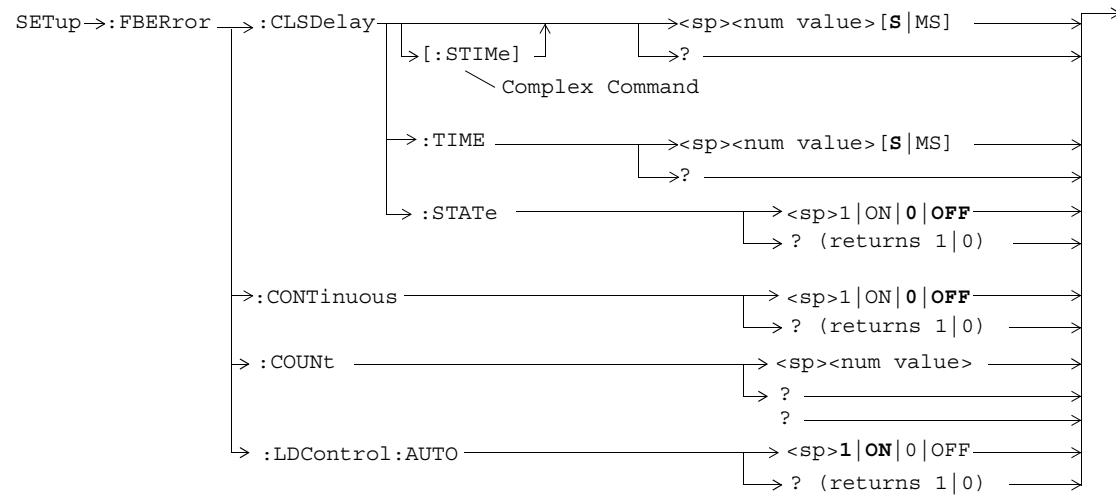


These commands are not applicable to GPRS.

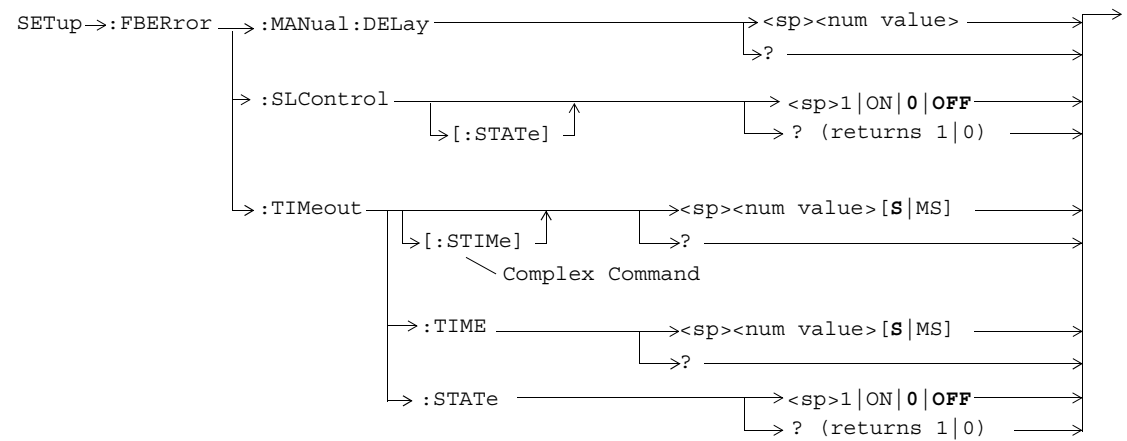


These commands are not applicable to GPRS.

SETup:FBERror

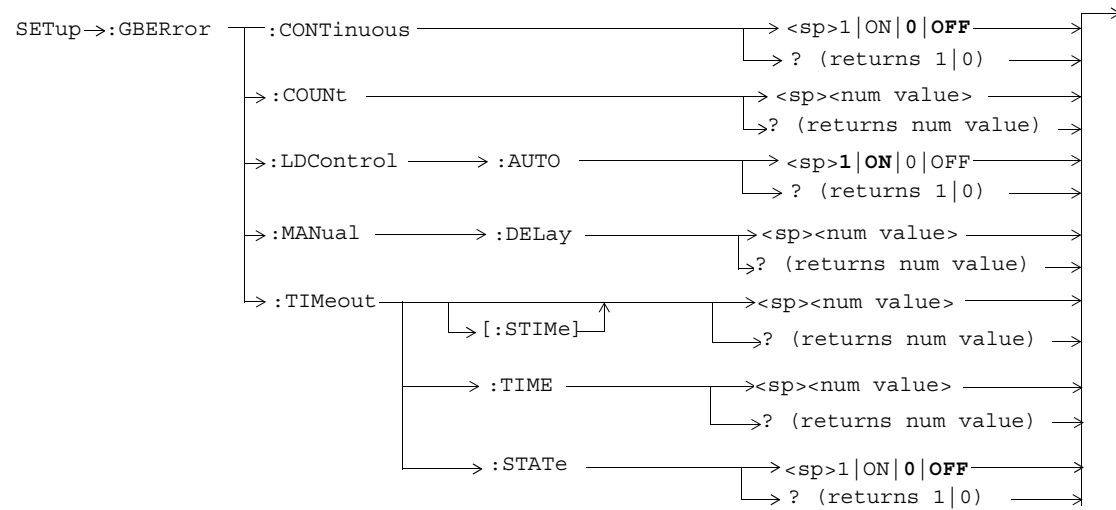


These commands are not applicable to GPRS.



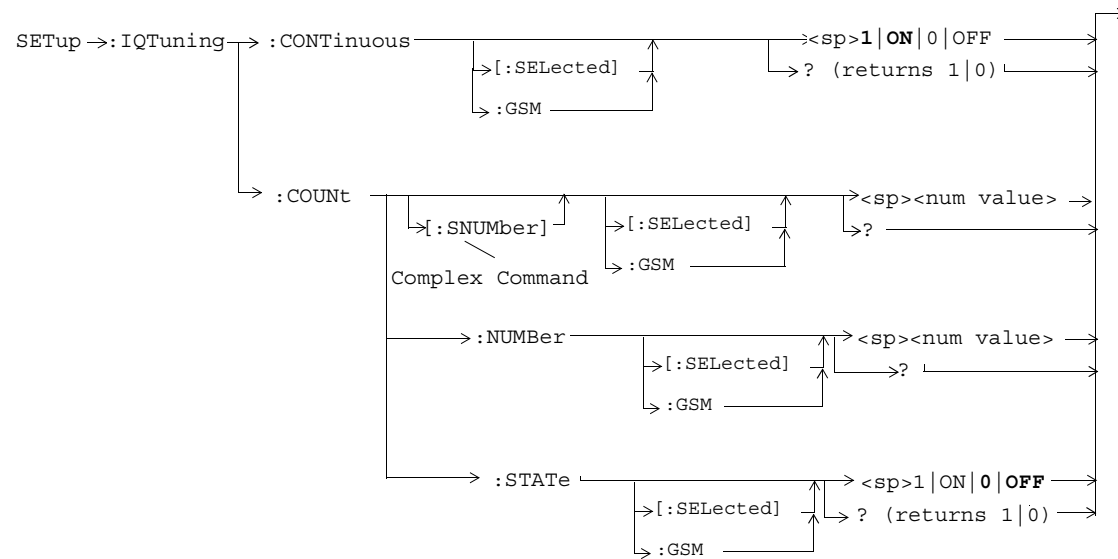
These commands are not applicable to GPRS.

SETup:GBERror

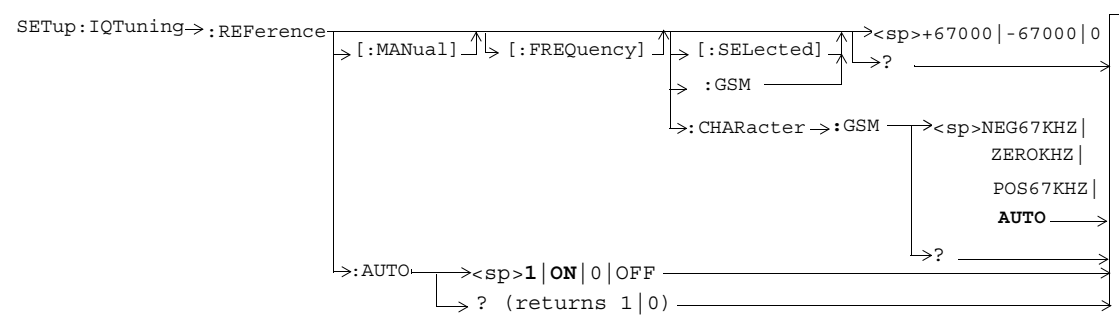


These commands are not applicable to GSM.

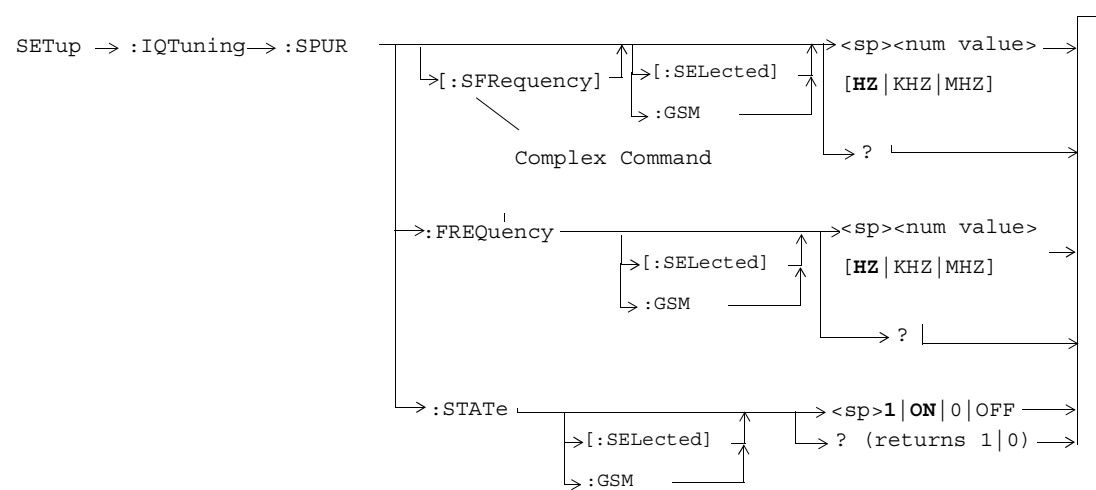
SETup:IQTuning



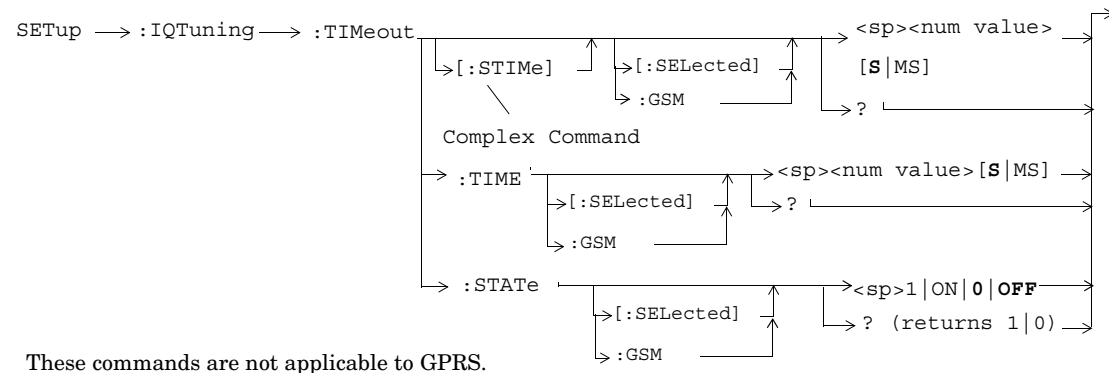
These commands are not applicable to GPRS.

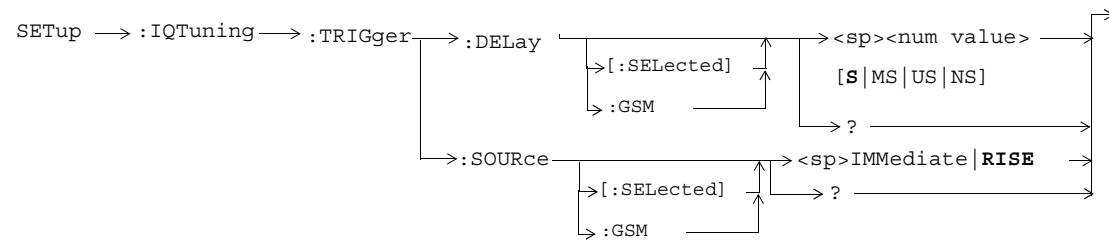


These commands are not applicable to GPRS.



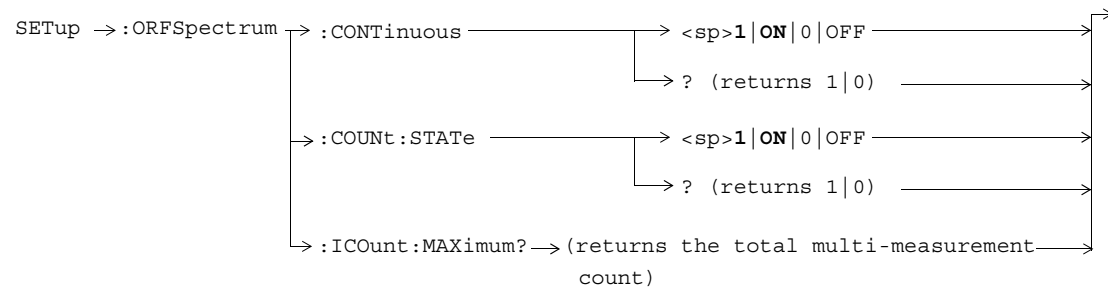
These commands are not applicable to GPRS.

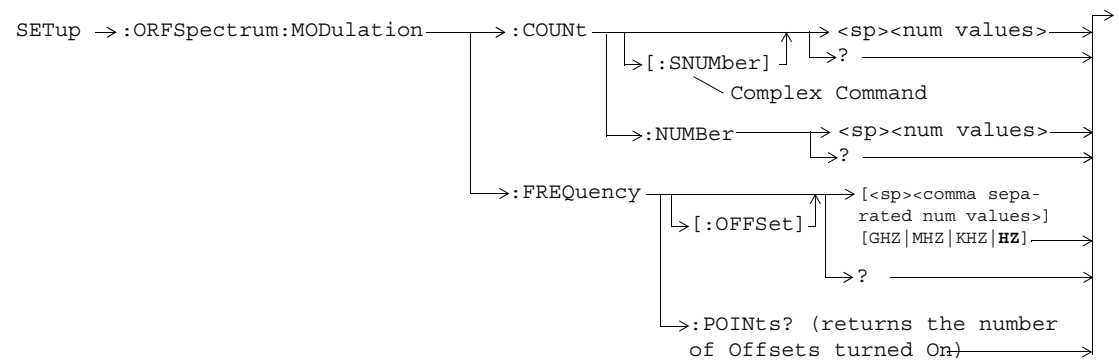


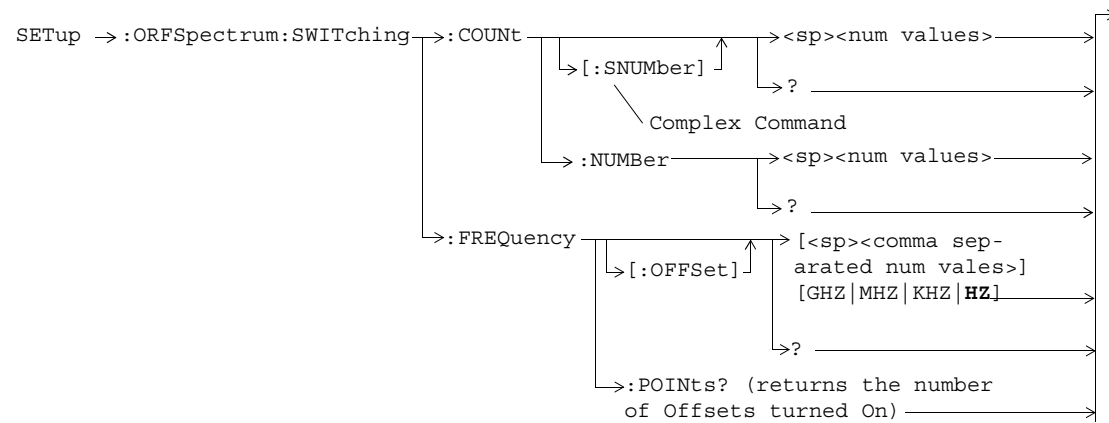


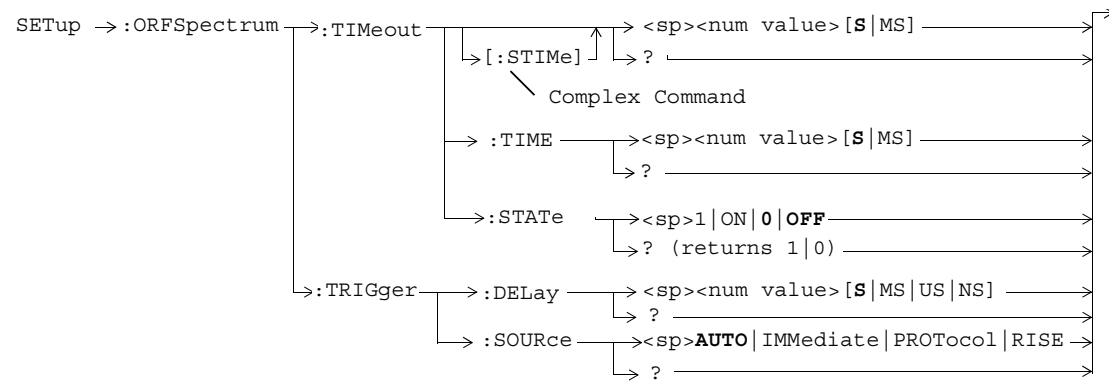
These commands are not applicable to GPRS.

SETup:ORFSpectrum

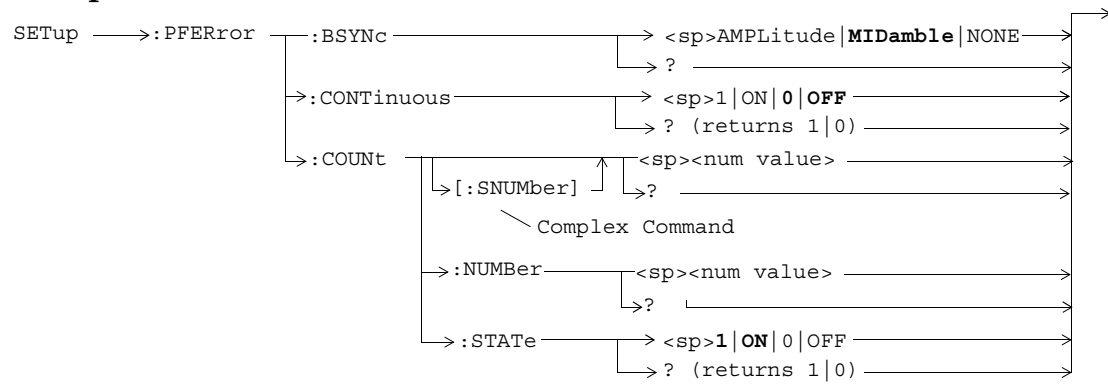


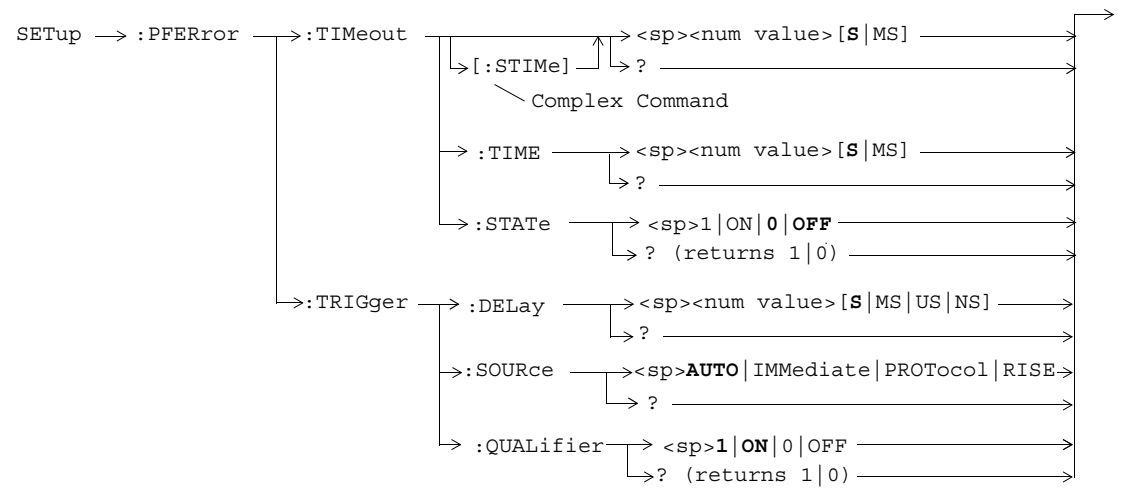




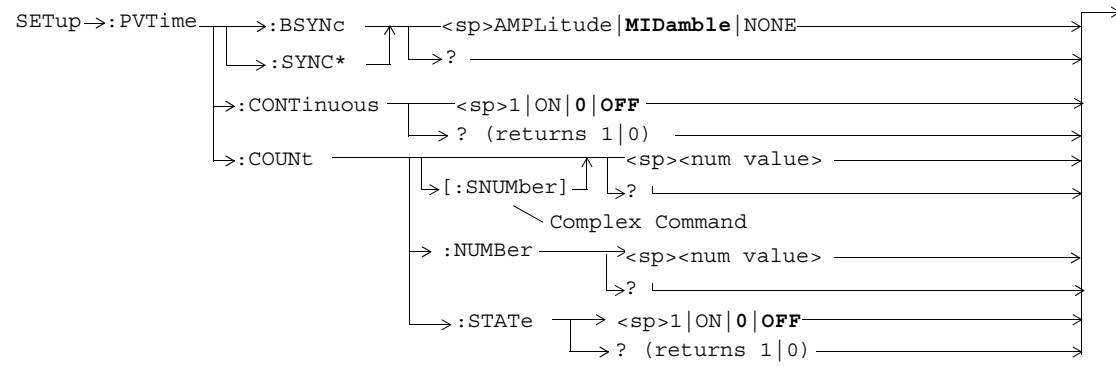


SETup:PFERror

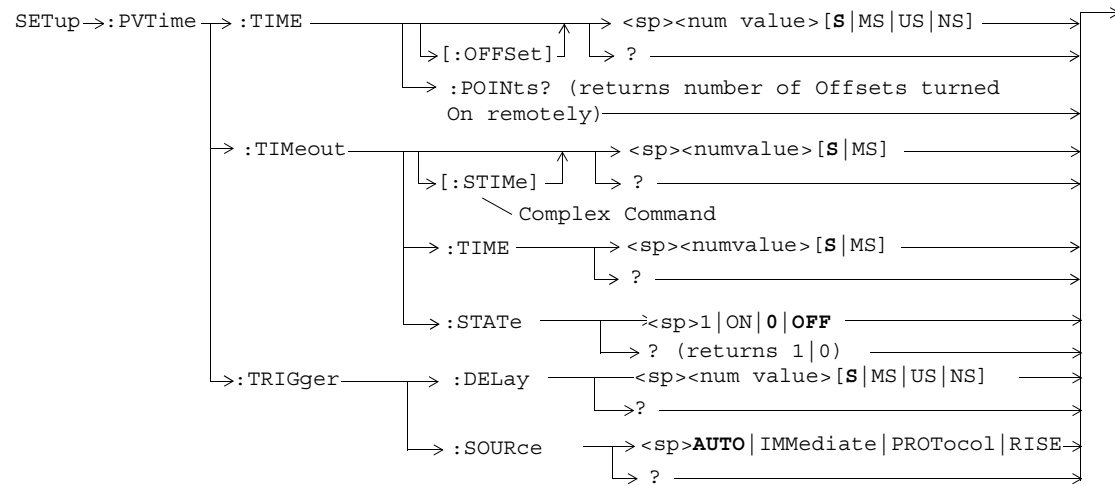


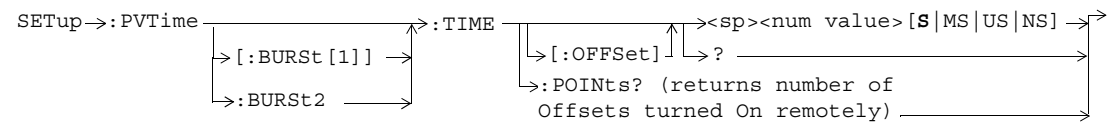


SETup:PVTime



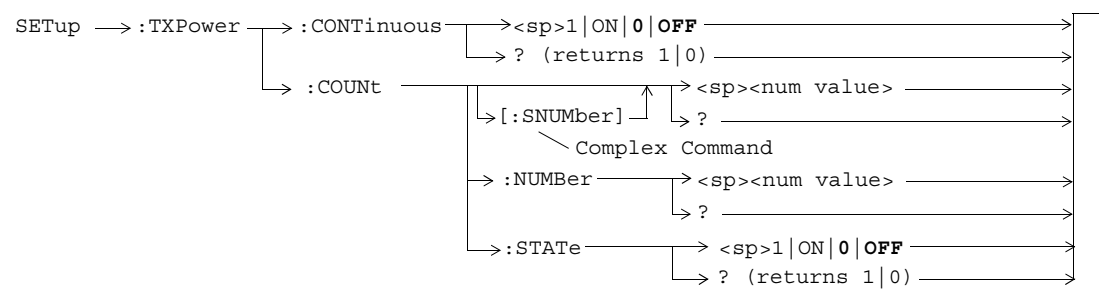
* Not applicable to GSM

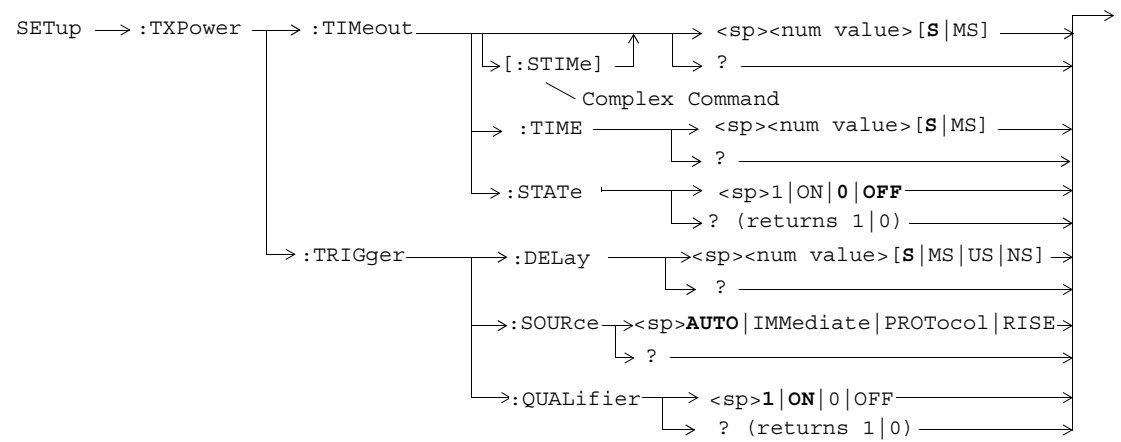




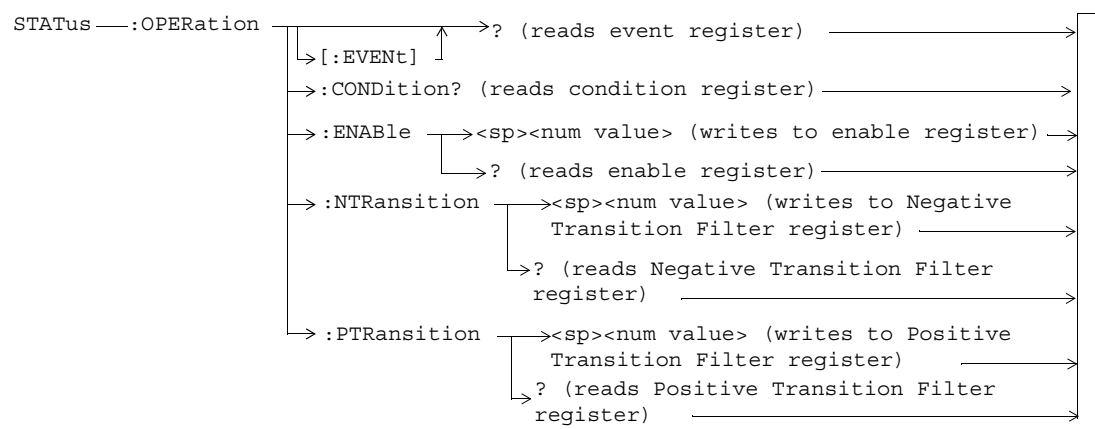
These commands are not applicable to GSM.

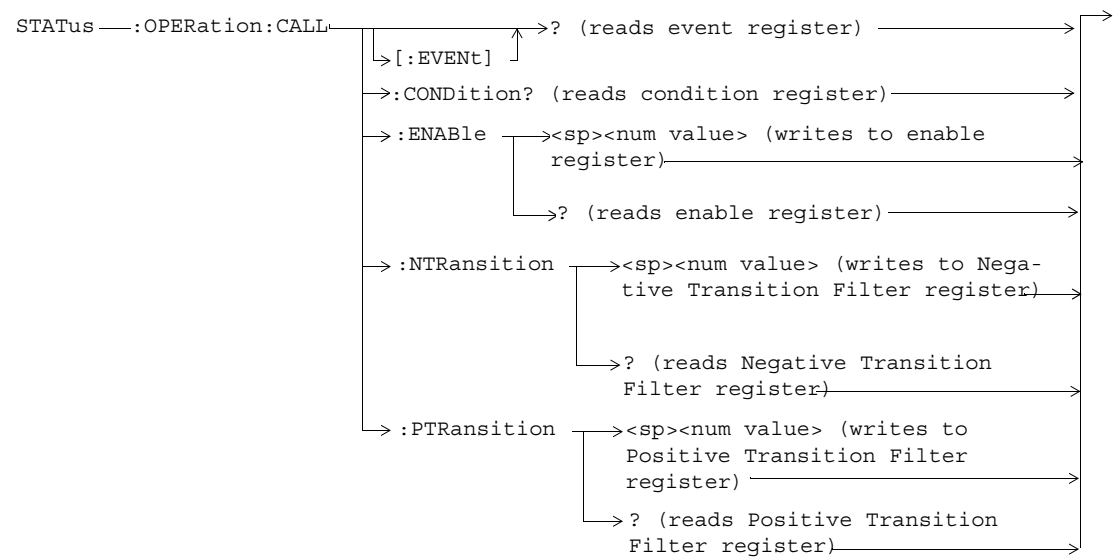
SETup:TXPower

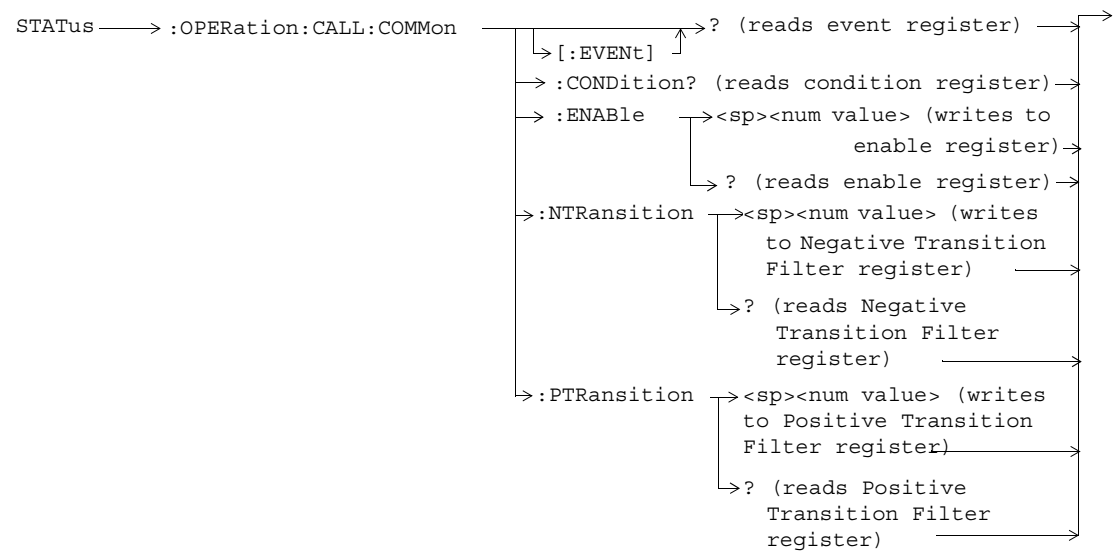


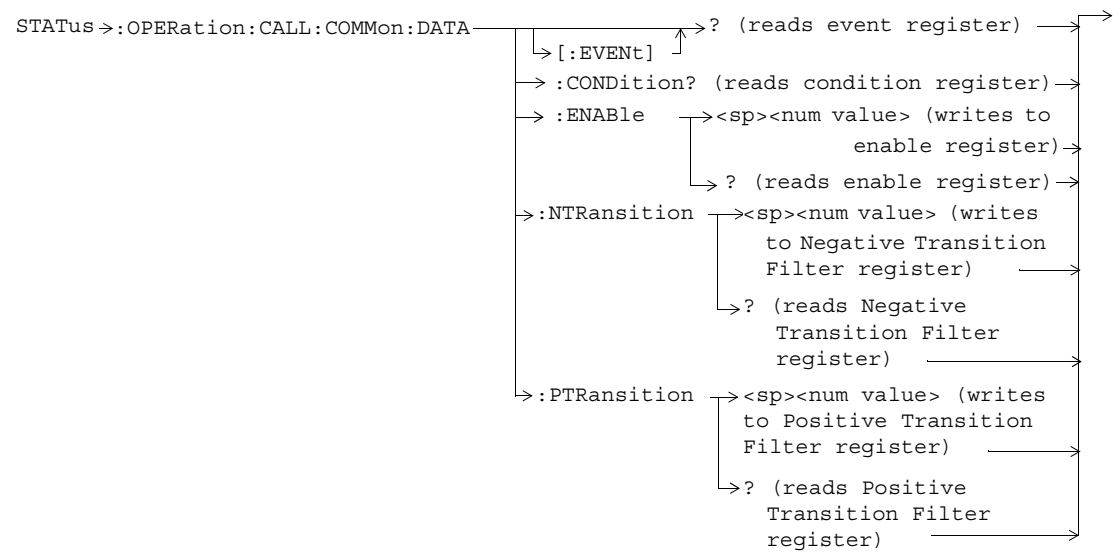


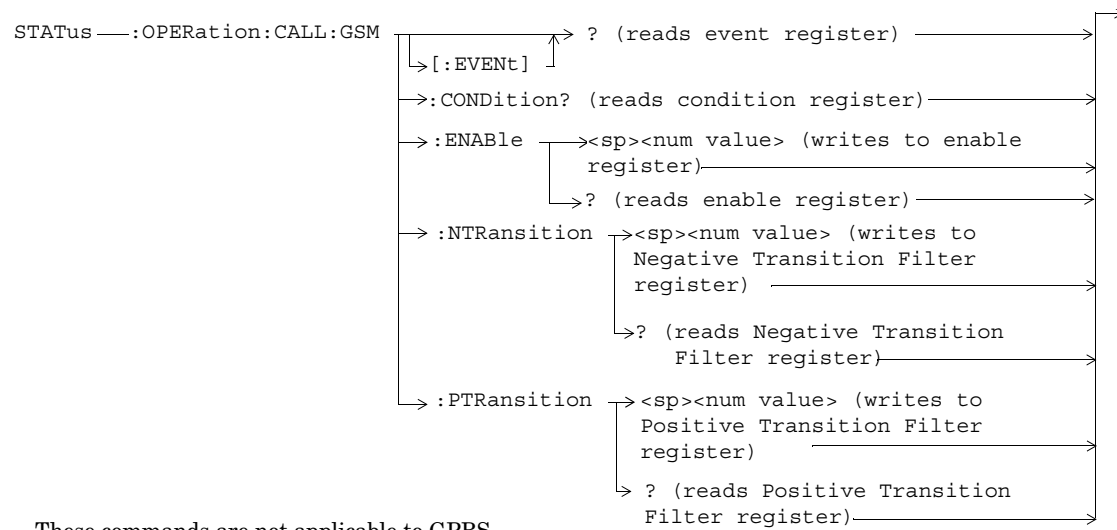
STATUS:OPERation





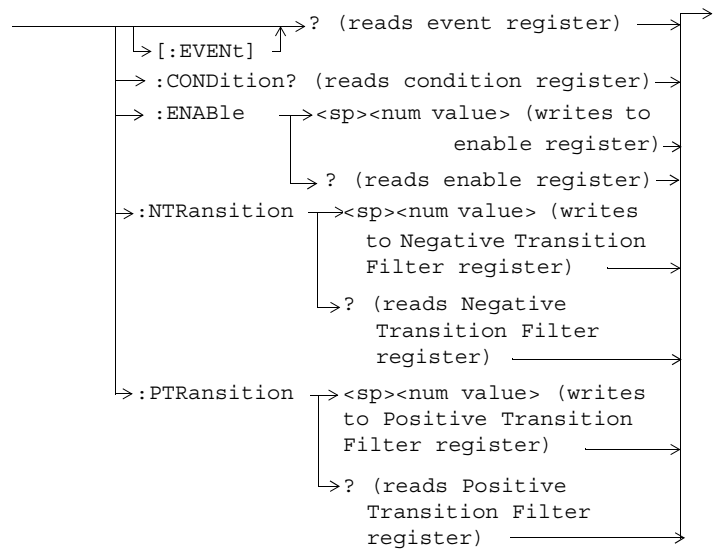


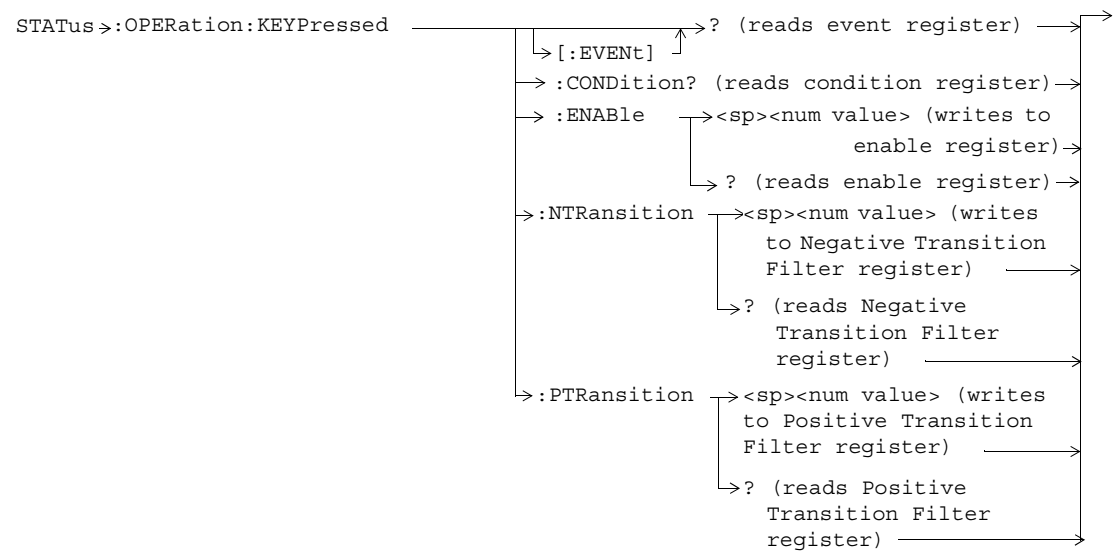


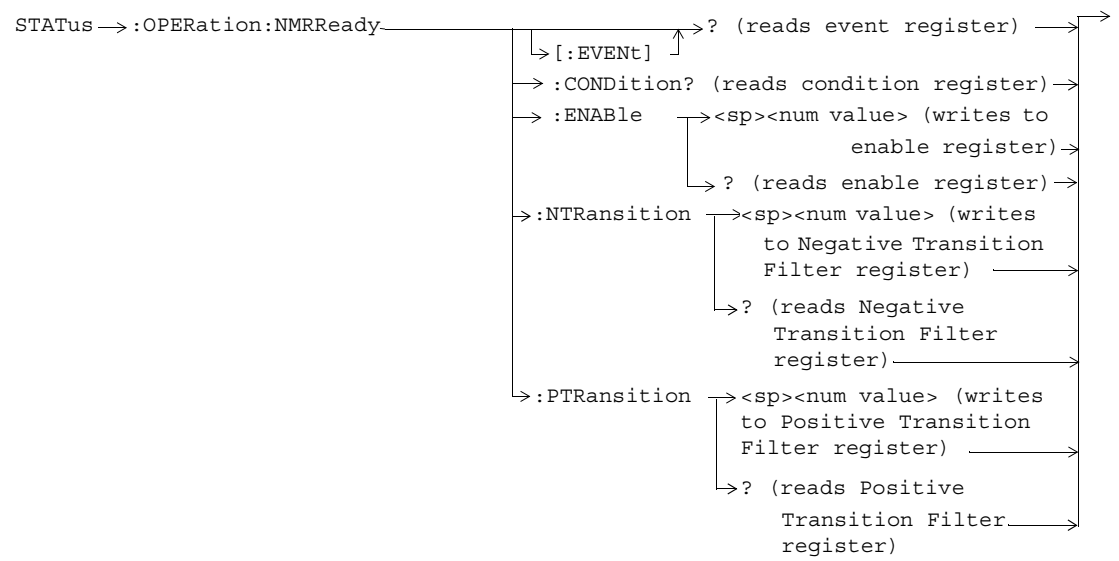


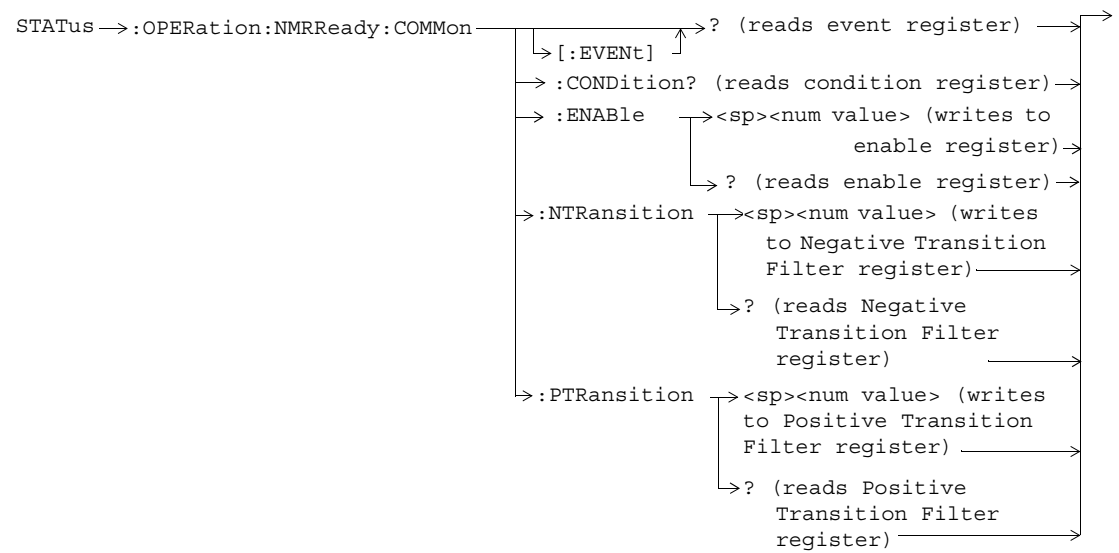
These commands are not applicable to GPRS.

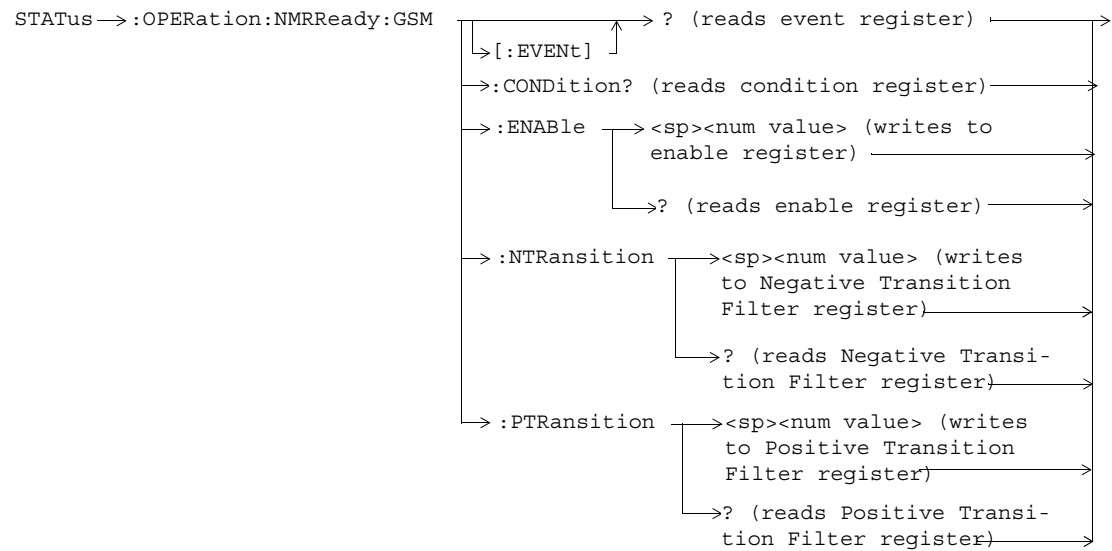
STATUS>:OPERation:HARDware







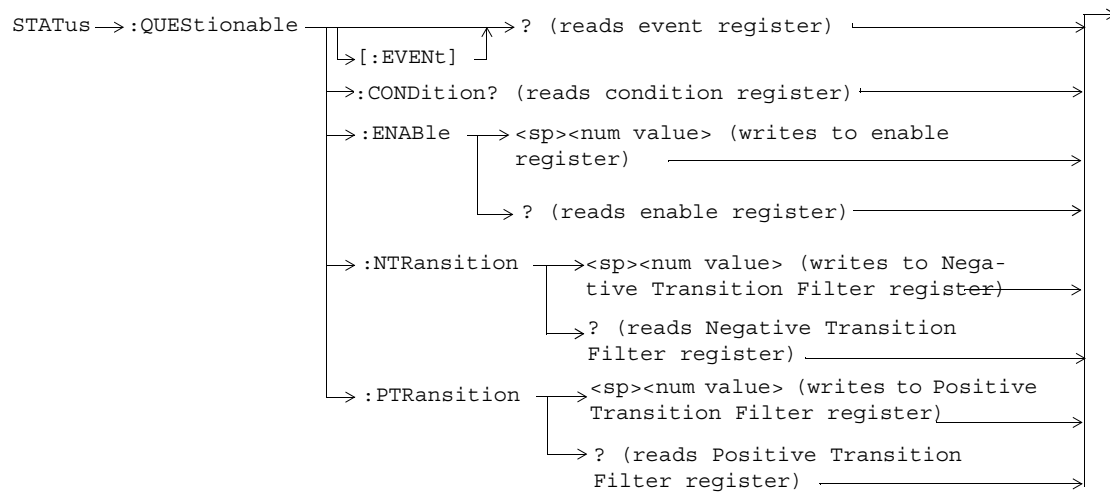


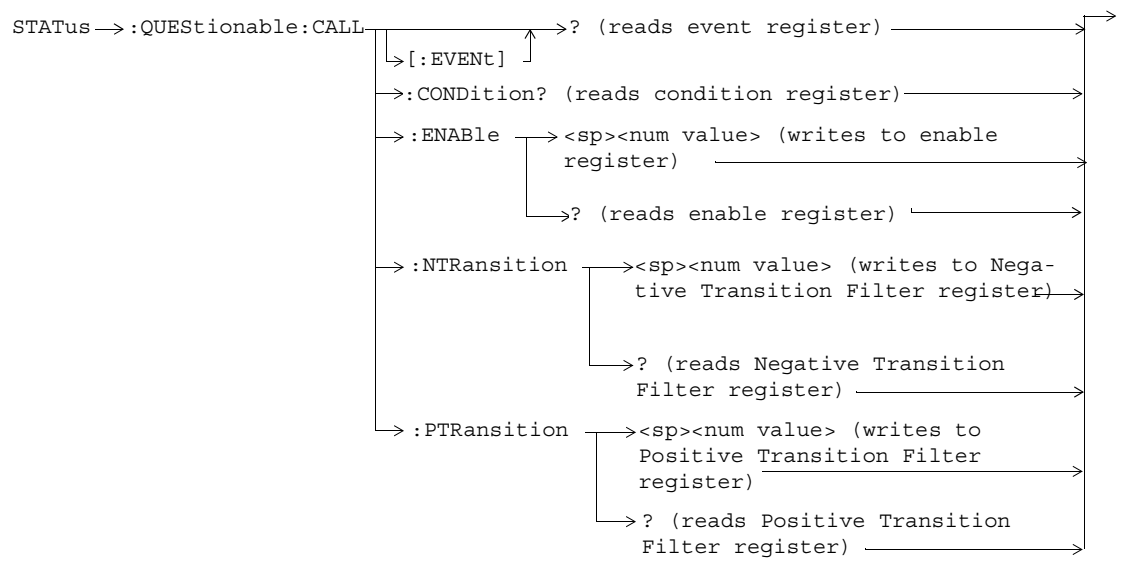


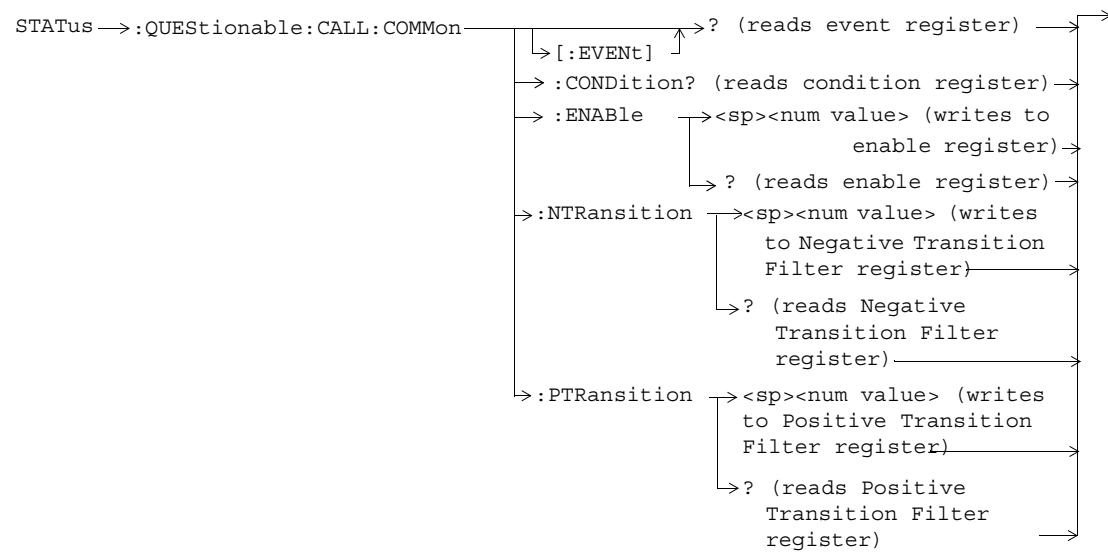
STATus:PRESet

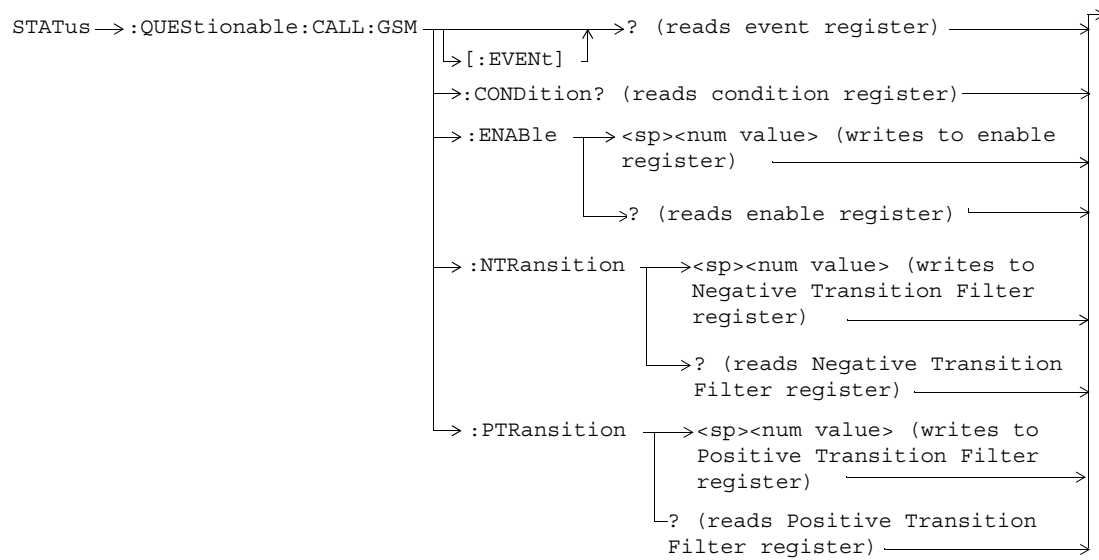
STATus → :PRESet →

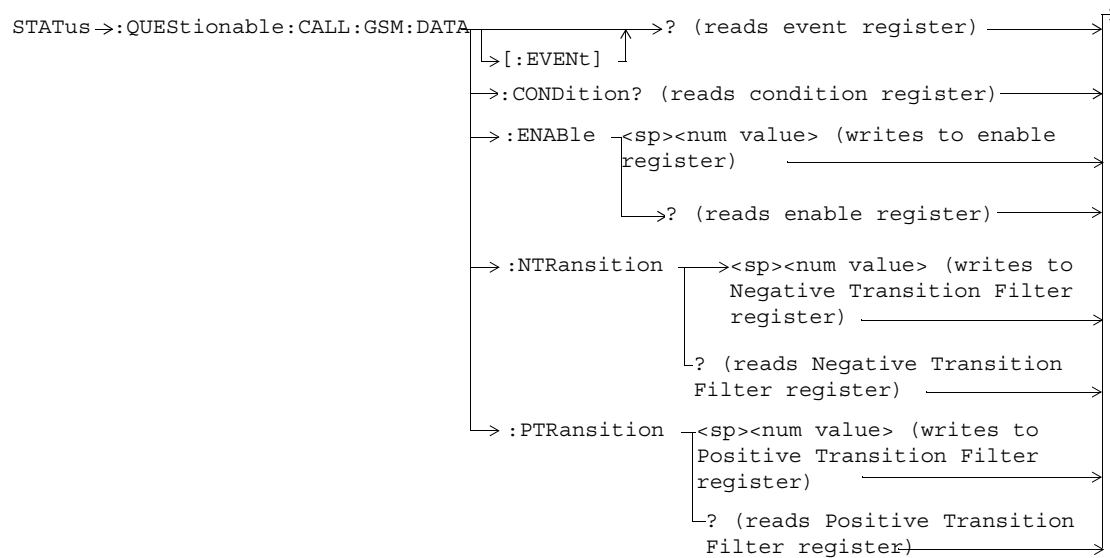
STATUS:QUESTIONABLE



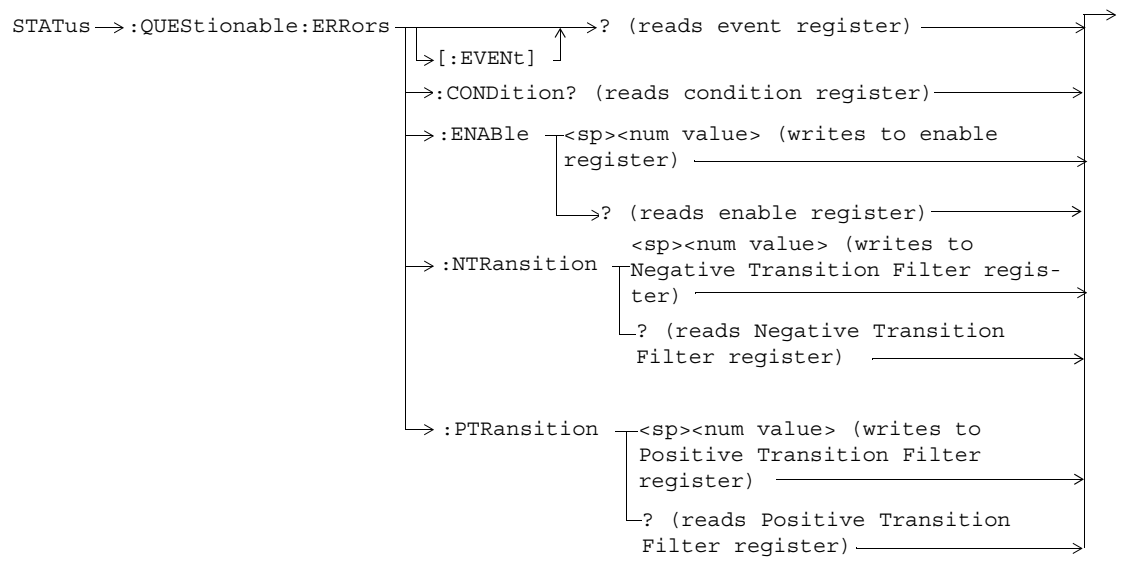


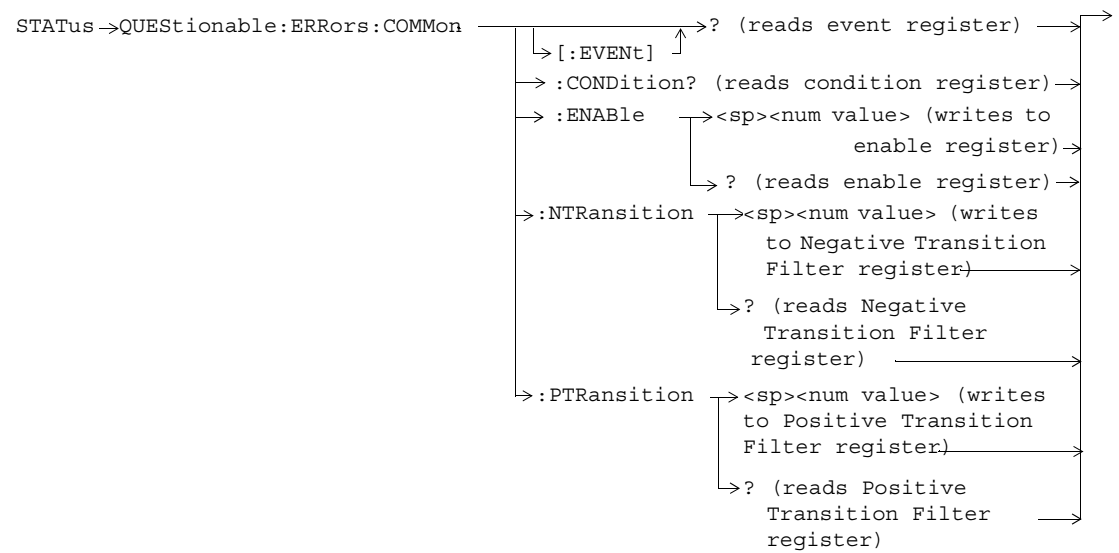


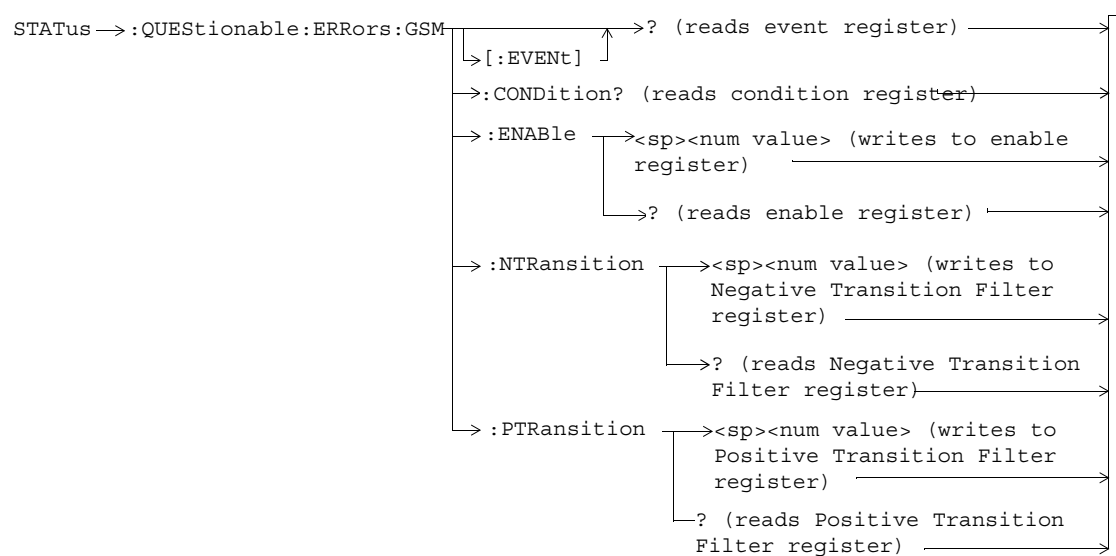


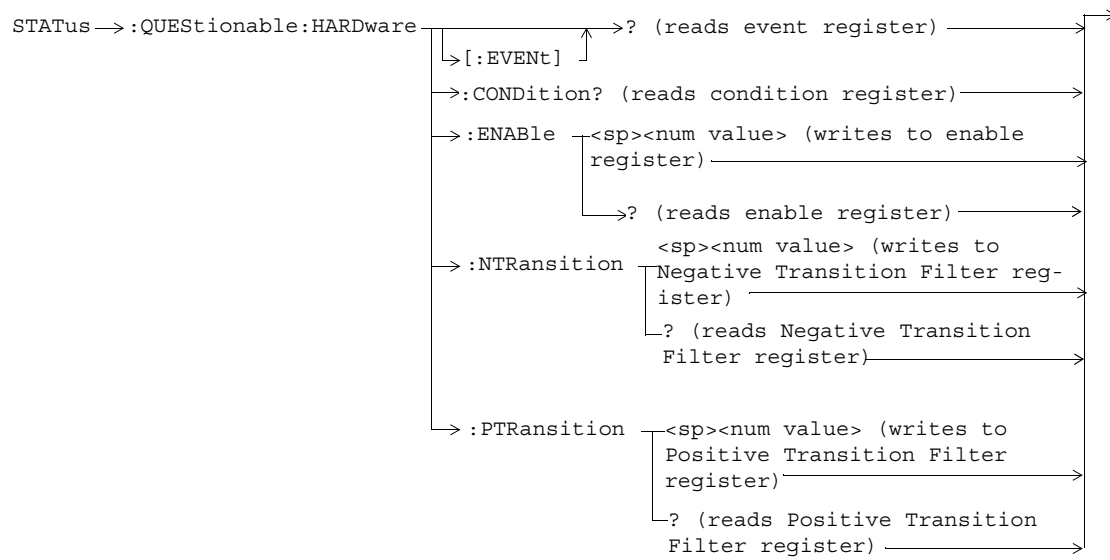


These commands are not applicable to GSM.









Status Byte Register

*STB?

*STB? _____ ↘→

Standard Event Status Register

*ESR?

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

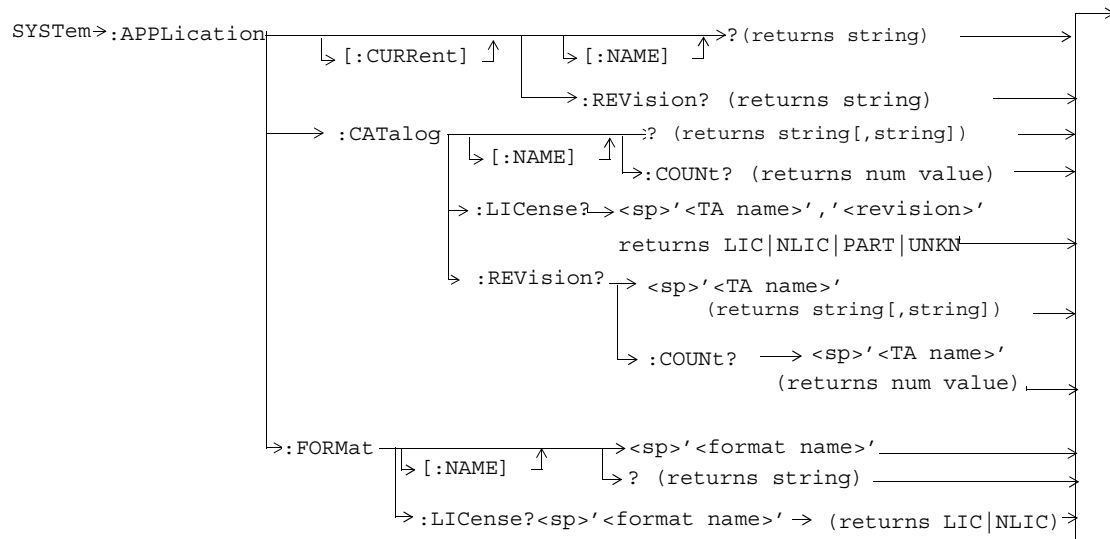
*ESE?

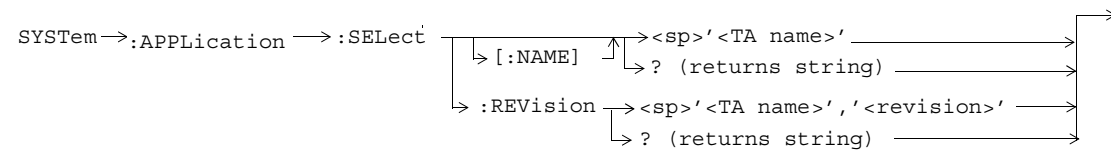
*ESE? —————> Reads the Std Event Status Register Enable Register ↗

*ESE

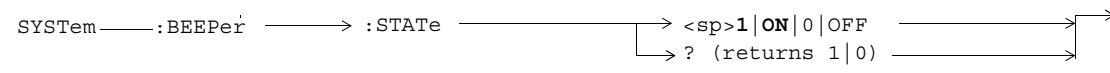
*ESE —————> Writes to the Std Event Status Register Enable Register ↗

SYSTem:APPLication

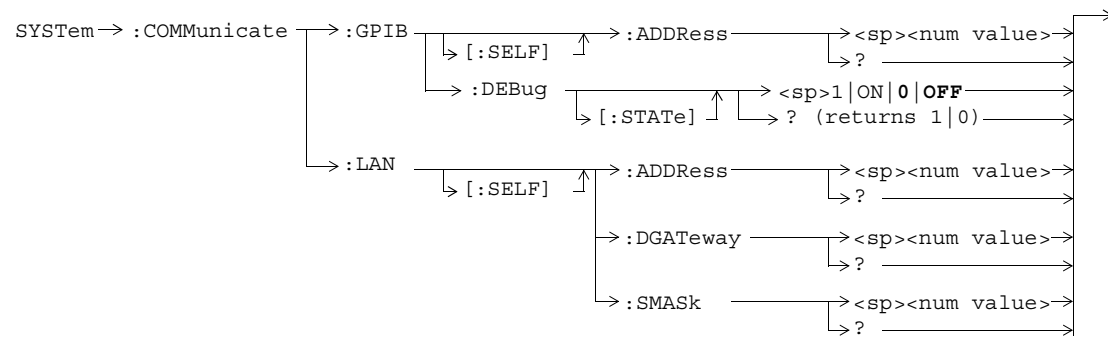




SYSTem:BEEPer



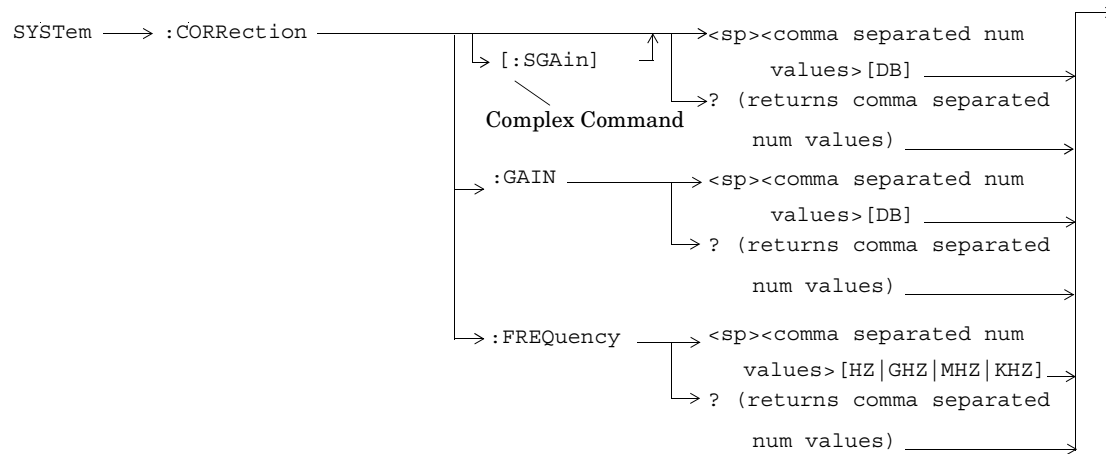
SYSTem:COMMunicate

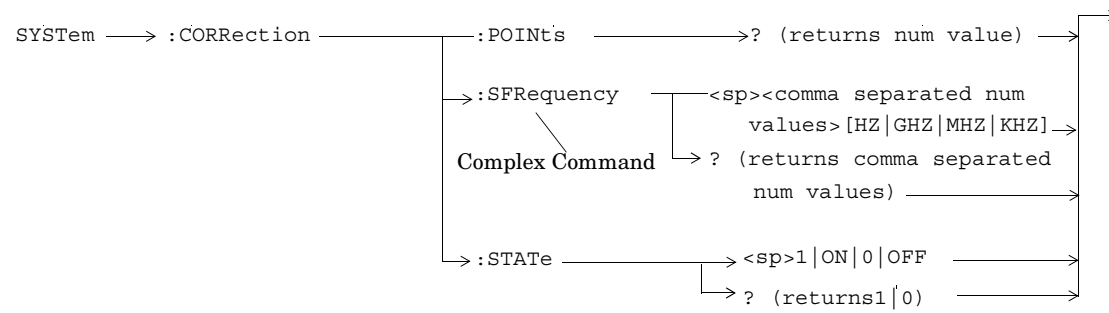


SYSTem:CONFigure

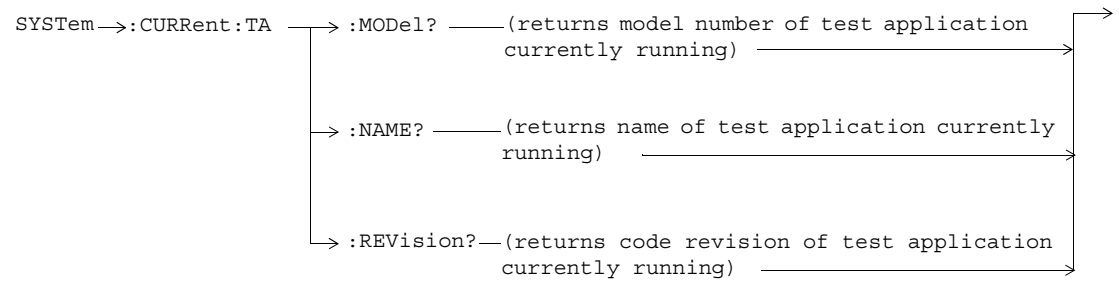
SYSTem → :CONFigure → :INFormation → :HARDware → :VERBose? → (returns model number,
serial number, revision
number, board ID and
Cal file information) ↪

SYSTem:CORRection





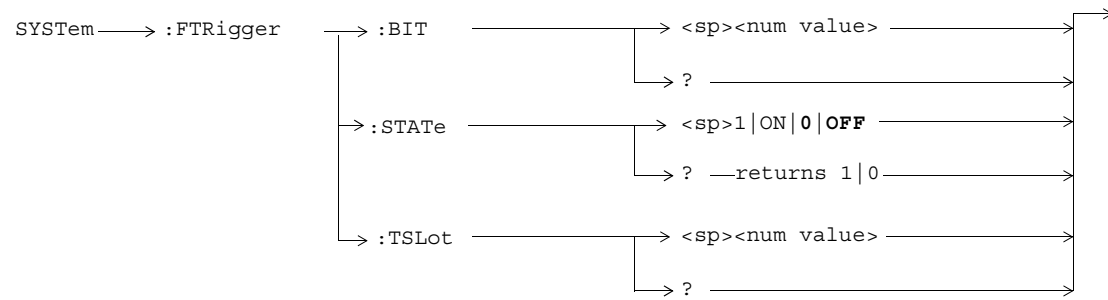
SYSTem:CURRent:TA



SYSTem:ERRor?

SYSTem → :ERRor? — (returns contents of error/event queue) → ↵ →

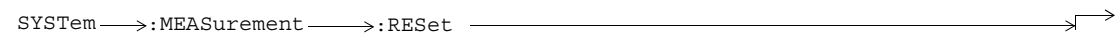
SYSTem:FTRigger



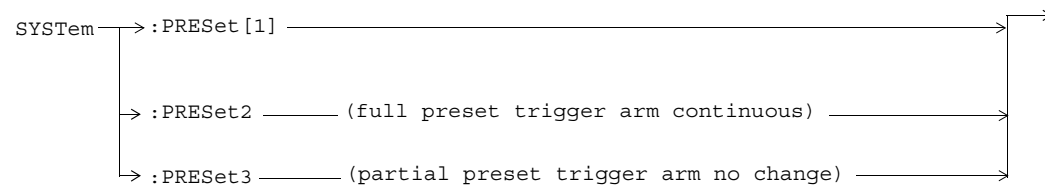
These commands are not applicable to GPRS.

SYSTem:MEASurement

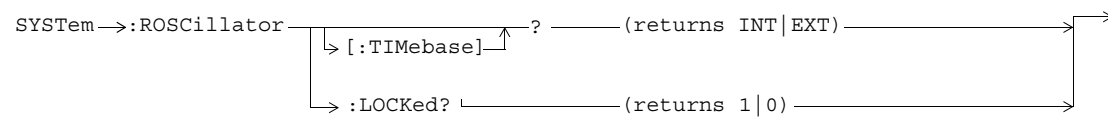
SYSTem → :MEASurement → :RESet →



SYSTem:PRESet



SYSTem:ROSCillator



SYSTem:SYNChronized



IEEE 488.2 Common Commands

Description

***CLS**

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

***ESE**

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

***ESE?**

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

***ESR?**

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

***IDN?**

The *IDN?, identification query is defined in “IEEE Std 488.2-1992”, 10.14. *IDN? is used to retrieve information

about the test set in ASCII format.

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

***OPC**

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

***OPC?**

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

***OPT?**

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

***RST**

The *RST, full preset command, is defined in “IEEE Std 488.2-1992”, 10.32. A full preset is also accomplished using the SYSTem:PRESet2 command. A full preset restores the majority of settings to their default values and sets measurement trigger arm to single.

***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.

Syntax Equivalents

Numerics

3 Digit MNC for PCS 1900, 49

A

abort measurements, 12
Active Cell Status, 58
active cell, setting, 42
Amplitude, 13
Amplitude Offset, 160
Analog Audio Setup, 103
analog audio setup, 103
ARFCN

 PDTCH, 45
Attached state, 16
Audio Analyzer
 Audio Frequency, 69
Audio Frequency, 69

B

BA Table, 17
Band Pass Filter Frequency
 AAUD, 104
 DAUD, 110
base station colour code, 20
BCC (Base Station Colour Code), 20
BCH number, 21
Beeper State, 157
Bit Error Setup, 107
 GPRS, 116

BLER

 data connection type, 28
Block Delay, 116
Block Error Rate, 58
Broadcast Chan, 21
Burst Synchronization
 PFER, 126
Burst Synchronization
 PVT, 128
Burst Timing Error, GPRS, 58
Burst Timing Error, GSM, 58

C

calibrate IQ modulators, 14
calibration date, querying, 14
call connected query, 23
call state detector, 23, 26
Call Status, 58
Cell Activated State, 15
Cell Band, 19
Cell Power, 50
Cell Power State, 50
channel decode error counter, 24
Coding Scheme, 45
corrupt burst counter, 24
corrupt burst, zeroing counter, 24
Corrupted Bursts, 16, 24, 30, 64
counters, 24

D

data connected query, GPRS, 26
data connection
 ending, 28
 starting, 28
data connection state
 attached, 16
 transferring, 64
Data Connection Status, 58
Data Connection Type, 28
data connection types, 28
date of calibration, querying, 14
debug feature, 11
Decode Errors, 16, 24, 30, 64
Decoded Audio Setup, 110
Deferred Parameters, setup, 54
discontinuance reception mode, 44
discontinuous transmission, 40
Display mode, 65
downlink configuration, 28
Downlink Traffic Power, 46
DRX, 44
dynamic power setup, 112

E

End Call, 27
End Data Connection, 28
ETSI Type A, data connection type, 28
ETSI Type B, data connection type, 28
Expected Audio Amplitude, 103

Syntax Equivalents

Expected Burst, 22
Expected Maximum Difference
 Dynamic Power, 112
Expected Peak Audio Amplitude, 103
Expected Power, 98
Expected Power Control (receiver control),
 100
External trigger Bit Position, 164
External trigger state, 164
External trigger Timeslot, 164

F

fast bit error results, 77
FBER Setup, 114
for call connection, 23, 26
Frequency, 13
frequency band of mobile, 40
frequency error results, 82

G

Get IMEI at Call Setup, 31
GPRS
 ending a data connection, 28
 setting the type of data connection, 28
 starting a data connection, 28
GPRS Bit Error Setup, 116
Guard Period Length, 39
Guard period length
 asymmetric, 40

H

Handover Execute, 30
Handover Setup, GPRS, 54
handover, making a, 30
HP-IB Address, 158

I

I/Q Tuning Setup, 117
IMEI, 31, 40
IMSI, 40
initiate measurements, 92
IQ Tuning results, 79

L

LAC (Location Area Code), 32
LAN IP Address, 158
license, 156
location area code, 32

M

Manual Band, 98
Manual Channel, 98
Manual Frequency, 98
Max Frames Allowed for Assignment, 16,
 24, 30, 64
MCC (Mobile Country Code), 33
MCC, last reported, 40
Measurement Burst, selecting for GPRS,
 101

Measurement Frequency
 Auto (receiver control), 100
 manual (receiver control), 101
Measurement Log, 163
Measurement Offsets
 PVT, 128
 PVT, GPRS, 130
Measurement Timeout
 AAUD, 103
 BERR, 107, 116
 DAUD, 110
 Dynamic Power, 112
 FBER, 114
 I/Q Tuning, 117
 ORFS, 124
 PFER, 126
 PVT, 130
 TXP, 131
Measurement Type, 107
Measurement Unit, 74
measurements
 initiate, 92
 starting, 92
 stopping, 12
missing burst count, 25
Missing Bursts, 16, 24, 30, 64
MNC, 49
MNC (Mobile Network Code), 34
MNC, last reported, 40
mobile compliance, 40

Syntax Equivalents

mobile country code, 33
mobile frequency band, 40
Mobile Loopback, 63
mobile network code, 34, 49
Modulation Offset
 ORFS, 122
Modulation Offset #
 ORFS, 122
MS TX Level, GPRS, 46
Multi-Measurement Count
 I/Q Tuning, 117
 ORFS, 122
 PFER, 126
 PVT, 128
 TXP, 131
Multi-Measurement Count (Modulation)
 ORFS, 122
Multi-Measurement Count (Switching)
 ORFS, 123
Multi-measurement Count Decoded Audio,
 110
Multislot Configuration, 46

N

NCC (Network Colour Code), 41
network colour code, 41
Number of bits to test
 BEFR, 107, 116
 FBFR, 114
Number of Bursts

Dynamic Power, 112

O

Operating Mode, 42
ORFS results, 80
ORFS Setup, 122
Originate Call, 43

P

Packet Data Traffic Channel, 45
page count, 25
Pages, 16, 24, 30, 64
paging
 IMSI, 44
 mode, 44
 multiframes, 44
 repeat, 44
Paging IMSI, 44
PDTCH
 Absolute Downlink Power, 46
 ARFCN, 45
 Band, 45
 downlink power control, 46
 MS TX Level, 46
 P0 reference level, 46
Phase & Freq Setup, 126
phase and frequency error results, 82
power class, 40
power level setting, 40

power versus time results
 GPRS, 87
 GSM, 84
 mask error code for GPRS, 86
Power vs Time Measurement Setup, 128
preset, 143
programming, debug feature, 11
Pulse, 13

R

RACH count, 25
RACH count, GPRS, 24
RACH count, zeroing, 24
RACH page, zeroing counter, 25
RACHs, 16, 24, 30, 64
reading results, 94
received signal level, 40
received signal quality, 40
Receiver Control, 98
 Expected Power Control, 100
 Measurement Frequency
 Auto, 100
 manual, 101
 Uplink Frequency
 Auto, 100
 manual, 101
Receiver Control, GPRS, 99, 100
Reference Offset Frequency
 I/Q Tuning, 117
Repeat Paging, 44

Syntax Equivalents

- results
 - fast bit error, 77
 - GPRS power versus time, 87
 - GSM power versus time, 84
 - I/Q Tuning, 79
 - ORFS, 80
 - phase and frequency error, 82
 - READ, 94
 - transmit power, 91
 - revisions, 156
 - RF generator, 51
 - RF generator calibration, 14
 - RX level, 40
 - RX quality, 40
- S**
- SAACH report clearing, 40
 - setup
 - analog audio, 103
 - dynamic power, 112
 - signalling control, 15
 - Speech, 63
 - Speech Frames Delay, 107
 - Start Data Connection, 28
 - start measurements, 92
 - status byte, 153
 - status operation subsystem, 133
 - stop measurements, 12
 - Switching Offset
 - ORFS, 123
- Symmetry of uplink bursts, 40
 - synchronization, 22
- T**
- TDMA Frames Delay, 114
 - test application, 156
 - test applications installed, 156
 - Test Function, 28
 - test modes, setting, 42
 - Time Offset
 - PVT, 128
 - Time Offset for each burst
 - PVT, GPRS, 130
 - timeout, 23, 26
 - for call connection, 23
 - for data connection, 26
 - Timeslot, 63
 - timing advance, 40
 - Traffic Band, 61
 - Traffic Band, GPRS, 45
 - Traffic Channel, 60
 - Traffic Channel, GPRS, 45
 - Transferring state, 64
 - transmit level, 40
 - transmit power results, 91
 - Trigger Arm
 - AAUD, 103
 - BERR, 107, 116
 - DAUD, 110
 - FBER, 114
- I/Q Tuning, 117
 - ORFS, 122
 - PFER, 126
 - PVT, 128
 - TXP, 131
- Trigger Delay
 - I/Q Tuning, 117
 - ORFS, 125
 - TXP, 132
 - Trigger Qualifier
 - PFER, 127
 - TXP, 132
 - Trigger Source
 - I/Q Tuning, 117
 - ORFS, 125
 - PFER, 127
 - PVT, 130
 - TXP, 132
 - triggering, 109
 - TX level, 40
 - TX Power Setup, 131
- U**
- Uplink Frequency
 - Auto (receiver control), 100
 - manual (receiver control), 101
 - Use 3 Digit MNC for PCS 1900, 49

Publication Number: 1000-1761

