

# SCPI Commands Quick Reference for the E5500A

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# Syntax Conventions

For more information about a particular command, refer to the SCPI Command Reference Guide for E5500A, part number Document Part No. E5500-90023, Ed. 1.0.

- Syntax descriptions use these conventions:
  - { } encloses one or more parameters that may be included zero or more times
  - | indicates “or”; only one item can be chosen
  - < > indicates a variable that needs further definition
  - [ ] indicates the enclosed items are optional
  - (~) indicates a valid range of values
- A question mark (?) makes the query form of a command. Commands listed with a ? are query only; commands listed with -? cannot be queried.

- A colon (:) indicates branching points on the command tree.
- A semicolon (;) sends multiple commands within a single program message. The command parser assumes the second command comes from the same branch as the preceding command. Use :: to reset the command parser to the base of the command tree.

### **Responses for Status Register Queries:**

#### **Event Status Register ( \*ESR? ) Mask is \*ESE (value)**

bit 0 = 1 = Operation Complete

bit 1 = 2 = Request Control

bit 2 = 4 = Query Error

bit 3 = 8 = Device Dependent Error. (Summary of QSR bits 9,10,11)

bit 4 = 16 = Execution Error. All API call error returns.

bit 5 = 32 = Command Error

bit 6 = 64 = User Request

bit 7 = 128 = Power On

**Status Byte ( \*STB? ) Mask is \*SRE (value)**

bit 0 = 1 = Not Used

bit 1 = 2 = Not Used

bit 2 = 4 = Error/Event Queue

bit 3 = 8 = Summary of Questionable Status Register

bit 4 = 16 = MAV (Message Available)

bit 5 = 32 = Summary of Standard Event Status Register

bit 6 = 64 = RQS (SRQ State)

bit 7 = 128 = Summary of Operation Status Register

**Status Operation Register ( STATus:OPERation:CONDition? )**

bit 0 = 1 = Calibrating

bit 1–3 = Not Used

bit 4 = 16 = Measuring

bit 5–7 = Not Used  
bit 8 = 256 = Paused  
bit 9 = 512 = Idle  
bit 10–15 = Not Used

### **Status Questionable Register ( STATus:QUEStionable:CONDition? )**

bit 0–8 = Not Used  
bit 9 = 512 = Warning message available.  
bit 10 = 1024 = Pause message available.  
bit 11 = 2048 = Abort message available.  
bit 12 = 4096 = Server Status message available.  
bit 13–15 = Not Used

Overlapped commands which start Pending Operations.

These are the only commands to which \*OPC, \*OPC? and \*WAI apply:

INITiate:CALibrate (Calibrate)

INITiate:MEASure (Measure)

INITiate:IMMEDIATE:ALL (Calibrate and Measure)

# Full Command Set

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**NOTE:**

- Characters in lower case may be omitted.
- Commands within square brackets [.] are optional.
- Parentheses mark places where data parameters are required. Choose one from the list provided or enter a numeric value.
- Allowed Terminators: DB, mA, Hz, KHz, MHz, GHz.
- Default Terminators: If none of the above are provided, the entry will be assumed to be in fundamental units of measure, which includes: dB, Hz, etc.
- Numeric values: Exponential notation is accepted along with simple integers. i.e. 234, -139.34E+6

## Format Of Measurement Data Output

### Measured Data

SENSe:DATA:HEADer:POINts? Returns Number of points.

SENSe:DATA?

Returns triples with each element separated by a comma and terminated by cr/lf.

Each triple consists of the “frequency, amplitude and spur flag”.

### Processes Data

CALCulate:DATA:HEADer:POINts? Returns the number of points.

CALCulate:DATA? Return varies with CALCulate:VIEW: setting.

CALCulate:VIE:SPURtable Returns “frequency, amplitude” per point.

CALCulate:VIEW:TRACe Returns “amplitude” per point.

CALCulate:VIEW:XYData Returns “frequency, amplitude, spur\_flag” per point.



# SCPI Commands

## Required

\*CLS

\*ESE (value)

\*ESE?

\*ESR?

\*IDN?

\*OPC

\*OPC?

\*RST

\*SRE (value)

\*SRE?

\*STB?

\*TST?

\*WAI

## **ABOR**

ABORt

## **CALC**

CALCulate:ACCumulated[:PHASe]? (tau, start-offset, stop-offset)

CALCulate:AVARiance? (tau, Frequency offset)

CALCulate:CFSCale (value)

CALCulate:CFSCale?

CALCulate:DATA?

CALCulate:DATA:HEADer:POINtS?

CALCulate:DIPower (value)

CALCulate:DIPower?

CALCulate:F2OScillator[:COMPare] ("inFileA", "inFileAB", "outFile"[, "title"])  
CALCulate:F3OScillator[:COMPare] ("inFileAB", "inFileAC", "inFileBC", "outFileA", "outFileB",  
"outFileC"[, "titleA", "titleB", "titleC"])  
CALCulate:INTegral? (start-offset, stop-offset)  
CALCulate:INTegral:TYPE (NORMAL | CCITt)  
CALCulate:INTegral:TYPE?  
CALCulate:LIMit:NOISe:MAXimum (segment#, start\_freq, start\_amplitude, stop\_freq, stop\_amplitude)  
CALCulate:LIMit:NOISe:MAXimum? (segment\_number)  
CALCulate:LIMit:NOISe:MAXimum:DELeTe (segment\_number)  
CALCulate:LIMit:NOISe:MAXimum:DELeTe:ALL  
CALCulate:LIMit:NOISe:MAXimum:DISPlay (0 | OFF | 1 | ON)  
CALCulate:LIMit:NOISe:MAXimum:DISPlay?  
CALCulate:LIMit:NOISe:MAXimum:FAIL? (segment\_number)  
CALCulate:LIMit:NOISe:MAXimum:FAIL:ALL?  
CALCulate:LIMit:NOISe:MINimum (segment#, start\_freq, start\_amplitude, stop\_freq, stop\_amplitude)  
CALCulate:LIMit:NOISe:MINimum? (segment\_number)

CALCulate:LIMit:NOISe:MINimum:DELeTe (segment\_number)  
CALCulate:LIMit:NOISe:MINimum:DELeTe:ALL  
CALCulate:LIMit:NOISe:MINimum:DISPlay (0 | OFF | 1 | ON)  
CALCulate:LIMit:NOISe:MINimum:DISPlay?  
CALCulate:LIMit:NOISe:MINimum:FAIL? (segment\_number)  
CALCulate:LIMit:NOISe:MINimum:FAIL:ALL?  
CALCulate:LIMit:SPUR:MAXimum (segment#, start\_freq, start\_amplitude, stop\_freq, stop\_amplitude)  
CALCulate:LIMit:SPUR:MAXimum? (segment\_number)  
CALCulate:LIMit:SPUR:MAXimum:DELeTe (segment\_number)  
CALCulate:LIMit:SPUR:MAXimum:DELeTe:ALL  
CALCulate:LIMit:SPUR:MAXimum:DISPlay (0 | OFF | 1 | ON)  
CALCulate:LIMit:SPUR:MAXimum:DISPlay?  
CALCulate:LIMit:SPUR:MAXimum:FAIL? (segment\_number)  
CALCulate:LIMit:SPUR:MAXimum:FAIL:ALL?  
CALCulate:LIMit:SPUR:MINimum (segment#, start\_freq, start\_amplitude, stop\_freq, stop\_amplitude)

CALCulate:LIMit:SPUR:MINimum? (segment\_number)  
CALCulate:LIMit:SPUR:MINimum:DELeTe (segment\_number)  
CALCulate:LIMit:SPUR:MINimum:DELeTe:ALL  
CALCulate:LIMit:SPUR:MINimum:DISPlay (0 | OFF | 1 | ON)  
CALCulate:LIMit:SPUR:MINimum:DISPlay?  
CALCulate:LIMit:SPUR:MINimum:FAIL? (segment\_number)  
CALCulate:LIMit:SPUR:MINimum:FAIL:ALL?  
CALCulate:PBWidth (value)  
CALCulate:PBWidth?  
CALCulate:SElect (BOTH | NOISe | SPURs)  
CALCulate:SElect?  
CALCulate:SMOothing (value)  
CALCulate:SMOothing?  
CALCulate:TRANSform (SSBN | SDPF | SDFF | SFFF | NF2P | AMN | BBAN)  
CALCulate:TRANSform?

CALCulate:TVARiance? (tau, Frequency offset)

CALCulate:VIEW:SPURtable

CALCulate:VIEW:TRACe (start-offset, stop-offset, #points, distribution (log/linear))

CALCulate:VIEW:XYData

CALCulate:YSHift (value)

CALCulate:YSHift?

## **CAL**

CALibrate:DETEctor:CONStant (value)

CALibrate:DETEctor:CONStant?

CALibrate:DETEctor:CONStant:METhod (BEATnote | DCPeak | SSPur | DSPur | FMD | AMIN | PSHift | NONE)

CALibrate:DETEctor:CONStant:METhod?

CALibrate:DETEctor:CONStant:SPUR:AMPLitude (value)

CALibrate:DETEctor:CONStant:SPUR:AMPLitude?

CALibrate:DETEctor:CONStant:SPUR:OFFSet (value)

CALibrate:DETEctor:CONStant:SPUR:OFFSet?  
CALibrate:VCO:IREStance (value)  
CALibrate:VCO:IREStance?  
CALibrate:VCO:PLLSuppress (0 | OFF | 1 | ON)  
CALibrate:VCO:PLLSuppress?  
CALibrate:VCO:PLLSuppress:APOLe?  
CALibrate:VCO:PLLSuppress:CBWidth?  
CALibrate:VCO:PLLSuppress:DISPlay[:ALWays] (0 | OFF | 1 | ON)  
CALibrate:VCO:PLLSuppress:DISPlay[:ALWays]?  
CALibrate:VCO:PLLSuppress:ERRor (value)  
CALibrate:VCO:PLLSuppress:ERRor?  
CALibrate:VCO:PLLSuppress:ERRor:ACTion (THEoretical | ADJusted | PAUSE)  
CALibrate:VCO:PLLSuppress:ERRor:ACTion?  
CALibrate:VCO:PLLSuppress:PTRange?  
CALibrate:VCO:TCONstant?

CALibrate:VCO:TCONstant:METHod (CURRent | MEASure | CALCulate)

CALibrate:VCO:TCONstant:METHod?

CALibrate:VCO:TCONstant:NOMinal (value)

CALibrate:VCO:TCONstant:NOMinal?

CALibrate:VCO:TMODE (EFC | DCFM)

CALibrate:VCO:TMODE?

CALibrate:VCO:VCADjust (value)

CALibrate:VCO:VCADjust?

CALibrate:VCO:VCENTER (value)

CALibrate:VCO:VCENTER?

CALibrate:VCO:VRANge (value)

CALibrate:VCO:VRANge?

## **DISP**

DISPlay:GRAPh:BOUNds:AMPLitude (Transform,Min,Max)



DISPlay:GRAPh:BOUNds:AMPLitude? (SSBN | SDPF | SDFF | SFFF | NF2P | AMN | BBAN)  
DISPlay:GRAPh:BOUNds:FREQuency (Min,Max)  
DISPlay:GRAPh:BOUNds:FREQuency?  
DISPlay:GRAPh:CFSCale (value)  
DISPlay:GRAPh:CFSCale?  
DISPlay:GRAPh:DIPower (value)  
DISPlay:GRAPh:DIPower?  
DISPlay:GRAPh:PBWidth (value)  
DISPlay:GRAPh:PBWidth?  
DISPlay:GRAPh:SMOothing (value)  
DISPlay:GRAPh:SMOothing?  
DISPlay:GRAPh:TRANSform (SSBN | SDPF | SDFF | SFFF | NF2P | AMN | BBAN)  
DISPlay:GRAPh:TRANSform?  
DISPlay:GRAPh:YSHift (value)  
DISPlay:GRAPh:YSHift?

DISPlay:MEASurement:TIME?

DISPlay:TEXT:TITLe ("string")

DISPlay:TEXT:TITLe?

## **FORM**

FORMat[:DATA] (ASCIi | REAL, length)

## **INIT**

INITiate[:IMMEDIATE][:ALL]

INITiate[:IMMEDIATE]:CALibrate

INITiate[:IMMEDIATE]:MEASure

## **MMEM**

MMEMory:LOAD[:ALL] ("path\name.pnm")

MMEMory:STORe ("path\name.pnm")

## **PAUS**

PAUSe:ABORt:AUTO (0 | OFF | 1 | ON)

PAUSe:ABORt:AUTO?

PAUSe:ADJust:LNAGain (14 | 28 | 42 | 56)

PAUSe:ADJust:LNAGain?

PAUSe:ADJust:VCOCenter (value)

PAUSe:ADJust:VCOCenter?

PAUSe:CONNect (0 | OFF | 1 | ON)

PAUSe:CONNect?

PAUSe:CONTInue

PAUSe:RETRy

PAUSe:SPECIal

## **SENS**

[:SENSe]:DATA?

[:SENSe]:DATA:HEADer:POINts?  
[:SENSe]:DCONverter:ATTenuator (0 to 35 dB in 5 dB steps)  
[:SENSe]:DCONverter:ATTenuator?  
[:SENSe]:DCONverter:ATTenuator:AUTO (0 | OFF | 1 | ON)  
[:SENSe]:DCONverter:ATTenuator:AUTO?  
[:SENSe]:DCONverter:ATTenuator:AUTO:IMMediate  
[:SENSe]:DCONverter:BAND (UWAVE | A | K | Q | U | V | W)  
[:SENSe]:DCONverter:BAND?  
[:SENSe]:DCONverter:FREQuency (value)  
[:SENSe]:DCONverter:FREQuency?  
[:SENSe]:DCONverter:IFFRequency?  
[:SENSe]:DCONverter:IFGAIN (-10 to 45 dB in 5 dB steps)  
[:SENSe]:DCONverter:IFGAIN?  
[:SENSe]:DCONverter:IFGAIN:AUTO (0 | OFF | 1 | ON)  
[:SENSe]:DCONverter:IFGAIN:AUTO?

[:SENSe]:DCONverter:IFGain:AUTO:IMMEDIATE  
[:SENSe]:DCONverter:L1BWidth (value)  
[:SENSe]:DCONverter:L1BWidth?  
[:SENSe]:DCONverter:L6BWidth (value)  
[:SENSe]:DCONverter:L6BWidth?  
[:SENSe]:DCONverter:LOPower (value)  
[:SENSe]:DCONverter:LOPower?  
[:SENSe]:DCONverter:LOSelect (value)  
[:SENSe]:DCONverter:LOSelect?  
[:SENSe]:DCONverter:LOSelect:AUTO (0 | OFF | 1 | ON)  
[:SENSe]:DCONverter:LOSelect:AUTO?  
[:SENSe]:DCONverter:MEXT:BIAS (value)  
[:SENSe]:DCONverter:MEXT:BIAS?  
[:SENSe]:DCONverter:MEXT:BIAS:STATe (0 | OFF | 1 | ON)  
[:SENSe]:DCONverter:MEXT:BIAS:STATe?

[:SENSe]:DCONverter:MMLO?  
[:SENSe]:DCONverter:PLO  
[:SENSe]:DCONverter:REFeRence (value)  
[:SENSe]:DCONverter:REFeRence?  
[:SENSe]:DCONverter:TSENsitivity?  
[:SENSe]:DCONverter:TUNE:PORT (OFF | INTernal | FRONt | REAR)  
[:SENSe]:DCONverter:TUNE:PORT?  
[:SENSe]:DETector:FREQUency (value)  
[:SENSe]:DETector:FREQUency?  
[:SENSe]:DETector:SELeCt (AUTO | EXT | LFR | HFR | UWAVE | TAM | TINoise | DCAM | DIAM)  
[:SENSe]:DETector:SELeCt?  
[:SENSe]:FFT:INPut:COUPling (AC | DC)  
[:SENSe]:FFT:INPut:COUPling?  
[:SENSe]:NOISe:BBGain (value)  
[:SENSe]:NOISe:BBGain?

[:SENSe]:NOISe:FFT (EXTended | MULTiple)  
[:SENSe]:NOISe:FFT?  
[:SENSe]:NOISe:MEAStype (ABSolute | Residual | Fm | Am | BEANd | NOTSet)  
[:SENSe]:NOISe:MEAStype?  
[:SENSe]:NOISe:PULSed (0 | OFF | 1 | ON)  
[:SENSe]:NOISe:PULSed?  
[:SENSe]:NOISe:QUADrature[:METHod] (PSHifter | SOURce)  
[:SENSe]:NOISe:QUADrature[:METHod]?  
[:SENSe]:RANGe:FFT:AVERage:MINimum (value)  
[:SENSe]:RANGe:FFT:AVERage:MINimum?  
[:SENSe]:RANGe:FFT:SEGTable[:MEASurement][:QUALity] (NORMal | FAST | Accurate | CUSTom)  
[:SENSe]:RANGe:FFT:SEGTable[:MEASurement][:QUALity]?  
[:SENSe]:RANGe:OFFSet (Start frequency,Stop frequency)  
[:SENSe]:RANGe:OFFSet?  
[:SENSe]:RANGe:SWEPt:SEGTable[:MEASurement][:QUALity] (NORMal | FAST | Accurate | CUSTom)

[[:SENSe]:RANGe:SWEPT:SEGTable[:MEASurement][:QUALity]?  
[:SENSe]:TSET:ATTenuator (0 to 35 dB in 5 dB Steps)  
[:SENSe]:TSET:ATTenuator?  
[:SENSe]:TSET:ATTenuator:AUTO (0 | OFF | 1 | ON)  
[:SENSe]:TSET:ATTenuator:AUTO?  
[:SENSe]:TSET:DCBlock (0 | OFF | 1 | ON)  
[:SENSe]:TSET:DCBlock?  
[:SENSe]:TSET:LNAGain (14 | 28 | 42 | 56)  
[:SENSe]:TSET:LNAGain?  
[:SENSe]:TSET:LNAGain:METHod (AUTO | FIXed | PAUSe)  
[:SENSe]:TSET:LNAGain:METHod?  
[:SENSe]:TSET:LNAGain:MINimum (value)  
[:SENSe]:TSET:LNAGain:MINimum?  
[:SENSe]:TSET:LPF (value)  
[:SENSe]:TSET:LPF?



[:SENSe]:TSET:LPF:AUTO (0 | OFF | 1 | ON)  
[:SENSe]:TSET:LPF:AUTO?  
[:SENSe]:TSET:PLL:ATTenuator (0 to 42 dB in 6 dB Steps)  
[:SENSe]:TSET:PLL:ATTenuator?  
[:SENSe]:TSET:PLL:UNLock:IGNore (0 | OFF | 1 | ON)  
[:SENSe]:TSET:PLL:UNLock:IGNore?  
[:SENSe]:TVCO (REFerence | CARRier | DCONverter | INTernal)  
[:SENSe]:TVCO?

## **SOUR**

SOURce:CALibration:FM[:DEViation] (value)  
SOURce:CALibration:FM[:DEViation] ?  
SOURce:CALibration:FM:INTernal:FREQuency (value)  
SOURce:CALibration:FM:INTernal:FREQuency?  
SOURce:CALibration:FREQuency[:CW|FIXed] (value)

SOURce:CALibration:FREQUENCY[:CW|FIXed]?  
SOURce:CALibration:POWer[:LEVel|AMPLitude] (value)  
SOURce:CALibration:POWer[:LEVel|AMPLitude]?  
SOURce:CARRier:FREQUENCY[:CW|FIXed] (value)  
SOURce:CARRier:FREQUENCY[:CW|FIXed]?  
SOURce:CARRier:POWer[:LEVel|AMPLitude] (value)  
SOURce:CARRier:POWer[:LEVel|AMPLitude]?  
SOURce:REFerence:FREQUENCY:DIVisor (value)  
SOURce:REFerence:FREQUENCY:DIVisor?  
SOURce:REFerence:FREQUENCY:MULTiplier (value)  
SOURce:REFerence:FREQUENCY:MULTiplier?  
SOURce:REFerence:POWer[:LEVel|AMPLitude] (value)  
SOURce:REFerence:POWer[:LEVel|AMPLitude]?  
SOURce:RESidual:FREQUENCY[:CW|FIXed] (value)  
SOURce:RESidual:FREQUENCY[:CW|FIXed]?

SOURce:RESidual:FREQUENCY:CALCulate?  
SOURce:RESidual:FREQUENCY:CALCulate (0 | OFF | 1 | ON)  
SOURce:RESidual:FREQUENCY:DETECTOR:COUPled (0 | OFF | 1 | ON)  
SOURce:RESidual:FREQUENCY:DETECTOR:COUPled?  
SOURce:RESidual:FREQUENCY:DIVisor (value)  
SOURce:RESidual:FREQUENCY:DIVisor?  
SOURce:RESidual:FREQUENCY:MULTIplier (value)  
SOURce:RESidual:FREQUENCY:MULTIplier?  
SOURce:RESidual:POWER[:LEVel|AMPLitude] (value)  
SOURce:RESidual:POWER[:LEVel|AMPLitude]?

## **STAT**

STATus:ADVise:ENABLE (0 | OFF | 1 | ON)  
STATus:ADVise:ENABLE?  
STATus:OPERation:CONDition?

STATus:OPERation:ENABLE (value)  
STATus:OPERation:ENABLE?  
STATus:OPERation:EVENT?  
STATus:OPERation:NTRansition (value)  
STATus:OPERation:NTRansition?  
STATus:OPERation:PTRansition (value)  
STATus:OPERation:PTRansition?  
STATus:PRESet  
STATus:QUEStionable:CONDition?  
STATus:QUEStionable:ENABLE (value)  
STATus:QUEStionable:ENABLE?  
STATus:QUEStionable:[EVENT]?  
STATus:QUEStionable:NTRansition (value)  
STATus:QUEStionable:NTRansition?  
STATus:QUEStionable:PTRansition (value)

STATus:QUEStionable:PTRansition?

## **SYST**

SYSTem:ASSet:CALSource ("None" | "asset\_name")

SYSTem:ASSet:CALSource?

SYSTem:ASSet:CARRier ("None" | "asset\_name")

SYSTem:ASSet:CARRier?

SYSTem:ASSet:COUNter ("None" | "asset\_name")

SYSTem:ASSet:COUNter?

SYSTem:ASSet:DCONverter ("None" | "asset\_name")

SYSTem:ASSet:DCONverter?

SYSTem:ASSet:DCONverter:USAGe (NONE | MANUal | SYSTem)

SYSTem:ASSet:DCONverter:USAGe?

SYSTem:ASSet:FFT ("None" | "asset\_name")

SYSTem:ASSet:FFT?

SYSTem:ASSet:FFT:CUSTom[:SEGTaBle] ("path\name.fst")  
SYSTem:ASSet:PSHifter ("None" | "asset\_name")  
SYSTem:ASSet:PSHifter?  
SYSTem:ASSet:REFerence ("None" | "asset\_name")  
SYSTem:ASSet:REFerence?  
SYSTem:ASSet:RESidual ("None" | "asset\_name")  
SYSTem:ASSet:RESidual?  
SYSTem:ASSet:SLAVe:SOURce ("None" | "asset\_name")  
SYSTem:ASSet:SLAVe:SOURce?  
SYSTem:ASSet:SLAVe:SOURce:PORT?  
SYSTem:ASSet:SLAVe:SOURce:PORT (LOINput | AUXinput)  
SYSTem:ASSet:SWANalyzer (value)  
SYSTem:ASSet:SWANalyzer?  
SYSTem:ASSet:SWANalyzer:CUSTom[:SEGTaBle] ("path\filename.sst")  
SYSTem:ASSet:TBASe ("None" | "asset\_name")

SYSTem:ASSet:TBASe?  
SYSTem:ASSet:TSET ("None" | "asset\_name")  
SYSTem:ASSet:TSET?  
SYSTem:ERRor?  
SYSTem:GUI:LLOCKout[:STATe]  
SYSTem:GUI:REMOte[:STATe] (0 | OFF | 1 | ON)  
SYSTem:GUI:REMOte[:STATe]?  
SYSTem:HELP:HEADers?  
SYSTem:PATH:CARRier (TSET | DCONverter)  
SYSTem:PATH:CARRier?  
SYSTem:PATH:DCBBanalyzer (TSLF | TSHF | TSRF)  
SYSTem:PATH:DCBBanalyzer?  
SYSTem:PATH:FFTanalyzer (TSLF | TSHF | TSRF | DCRF)  
SYSTem:PATH:FFTanalyzer?  
SYSTem:PATH:SWANalyzer (TSLF | TSHF | TSRF | DCRF)

SYSTem:PATH:SWANalyzer?

SYSTem:PATH:TVCO (FPANel | RPANel | INTernal)

SYSTem:PATH:TVCO?

SYSTem:TStart?

SYSTem:VERsion?



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