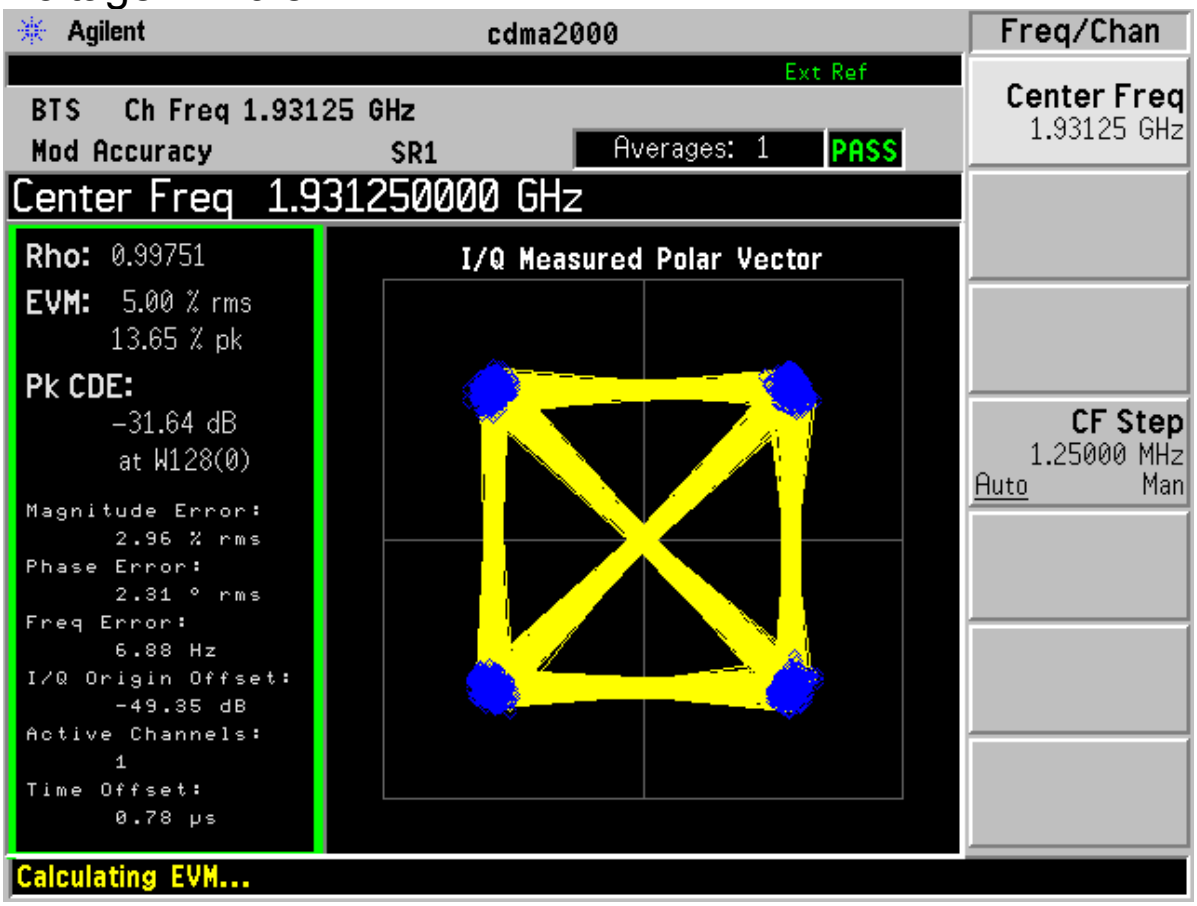
Appendix F
Frequency Stability Measurements
According to CFR 47 (FCC) part 2.1055

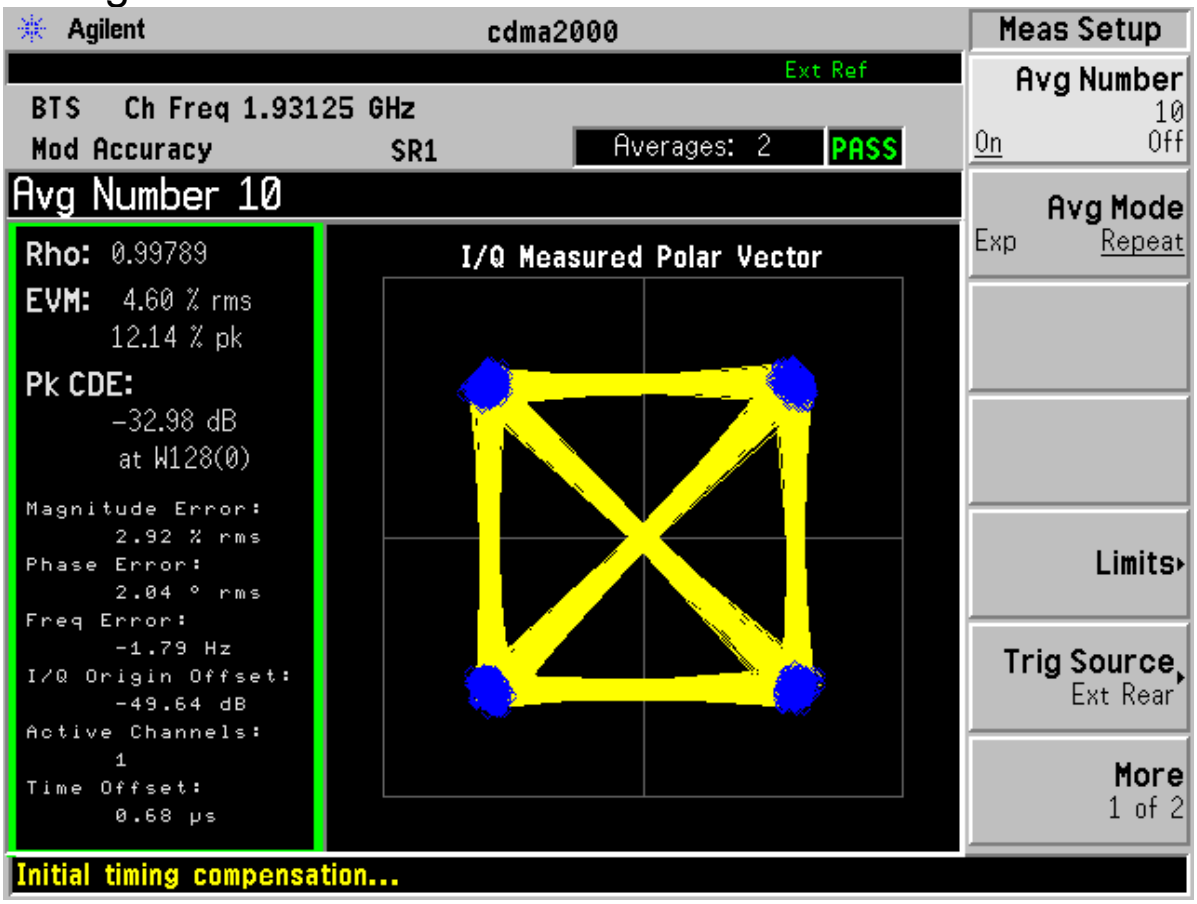
Frequency Stability versus Voltage

TRX1: Channel No. 25(1931.25MHz)

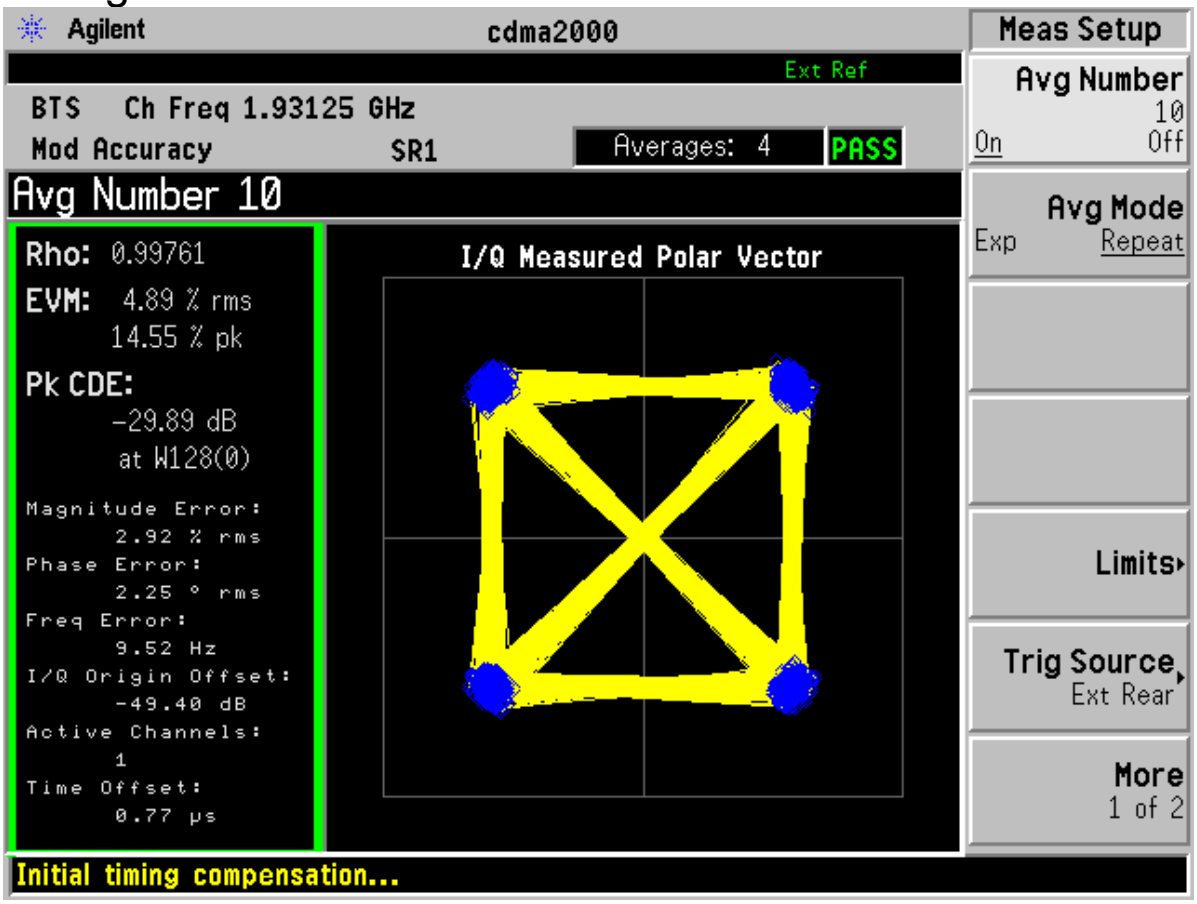
Voltage= - 40.8V



Voltage= - 48V

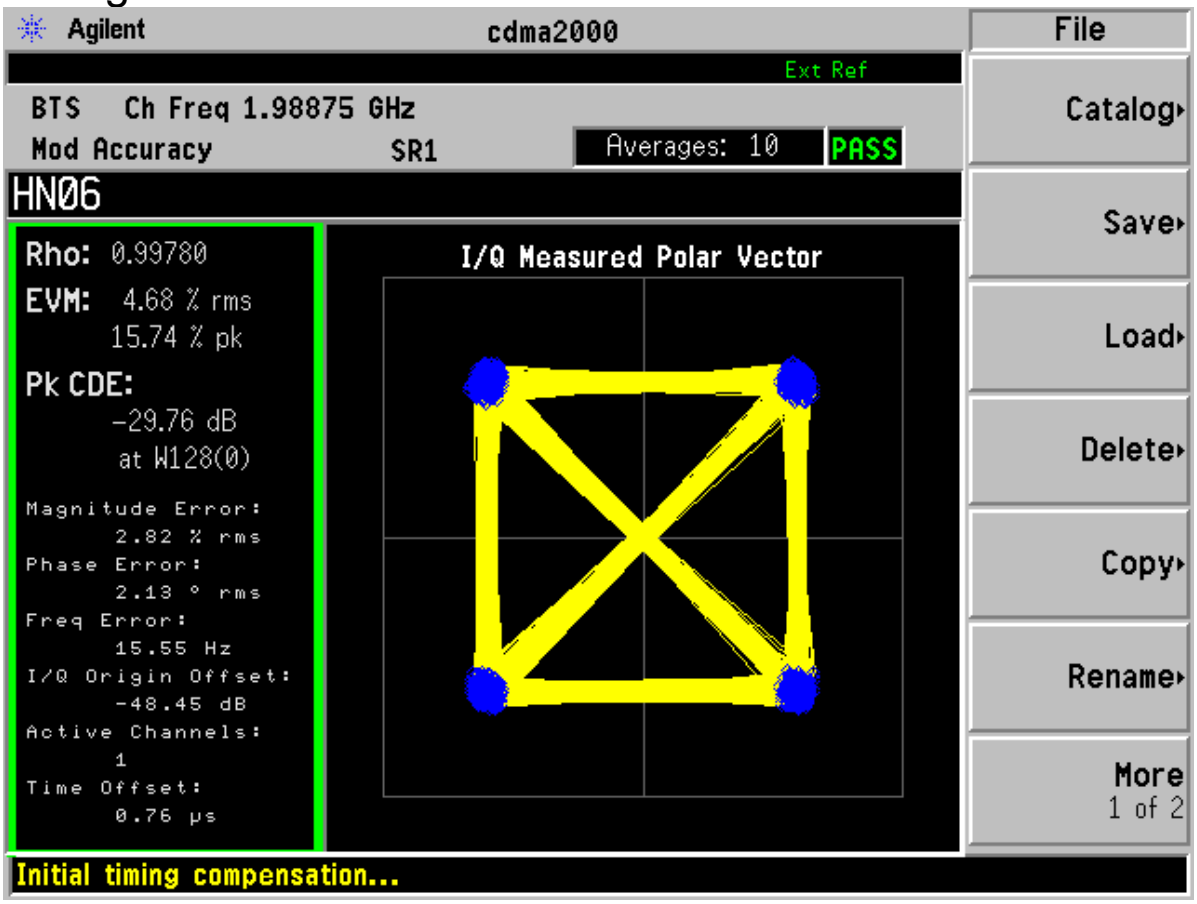

Agilent
cdma2000
Ext Ref
BTS Ch Freq 1.93125 GHz
Mod Accuracy SR1
Averages: 2
PASS
Avg Number 10
Rho: 0.99789
EVM: 4.60 % rms
12.14 % pk
Pk CDE:
-32.98 dB
at W128(0)
Magnitude Error:
2.92 % rms
Phase Error:
2.04 ° rms
Freq Error:
-1.79 Hz
I/Q Origin Offset:
-49.64 dB
Active Channels:
1
Time Offset:
0.68 µs
I/Q Measured Polar Vector
Meas Setup
Avg Number
10
On
Off
Avg Mode
Exp
Repeat
Limits
Trig Source
Ext Rear
More
1 of 2
Initial timing compensation...

Voltage= - 55.2V

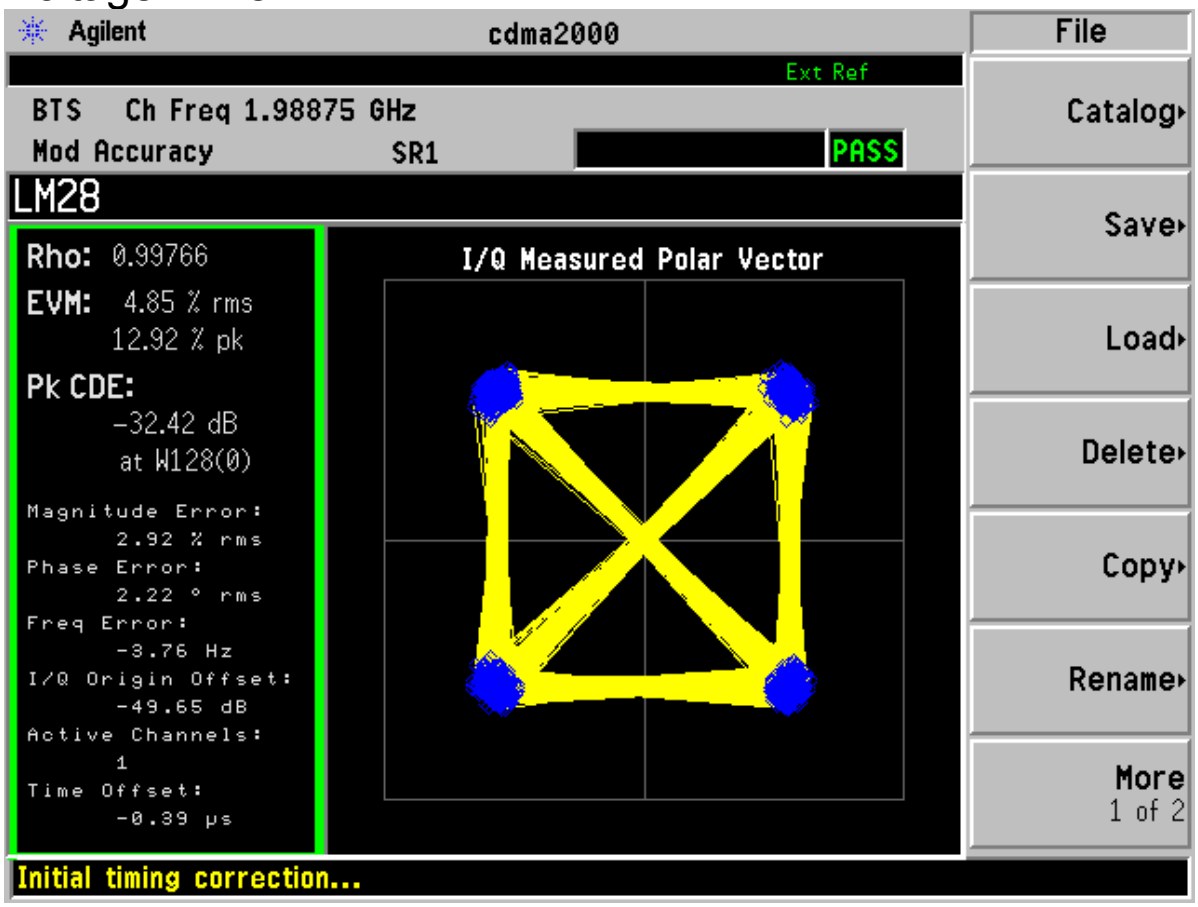


TRX2: Channel No. 1175(1988.75MHz)

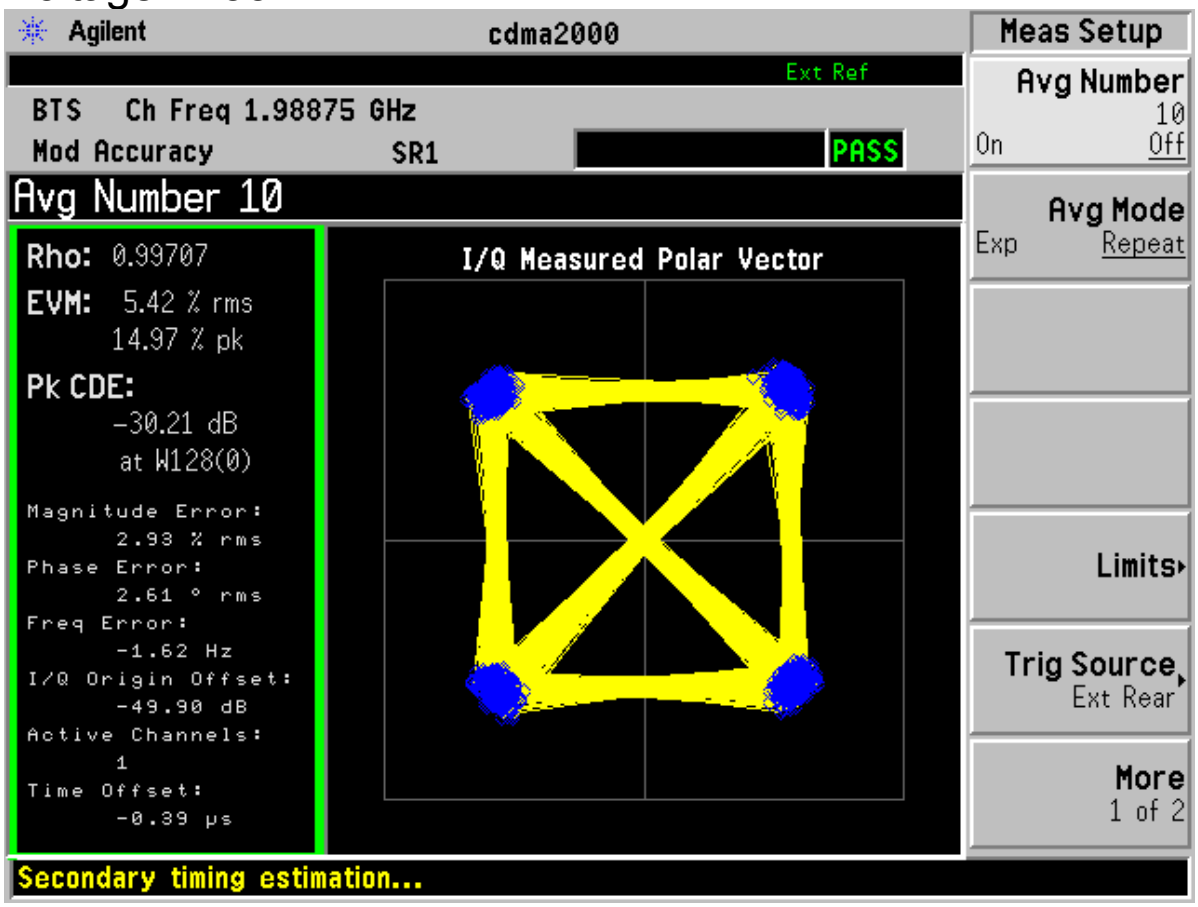
Voltage= - 40.8V



Voltage= - 48V


Agilent
cdma2000
File
Ext Ref
BTS Ch Freq 1.98875 GHz
Mod Accuracy SR1
PASS
LM28
Rho: 0.99766
EVM: 4.85 % rms
12.92 % pk
Pk CDE:
-32.42 dB
at W128(0)
Magnitude Error:
2.92 % rms
Phase Error:
2.22 ° rms
Freq Error:
-3.76 Hz
I/Q Origin Offset:
-49.65 dB
Active Channels:
1
Time Offset:
-0.39 µs
I/Q Measured Polar Vector
Catalog
Save
Load
Delete
Copy
Rename
More
1 of 2
Initial timing correction...

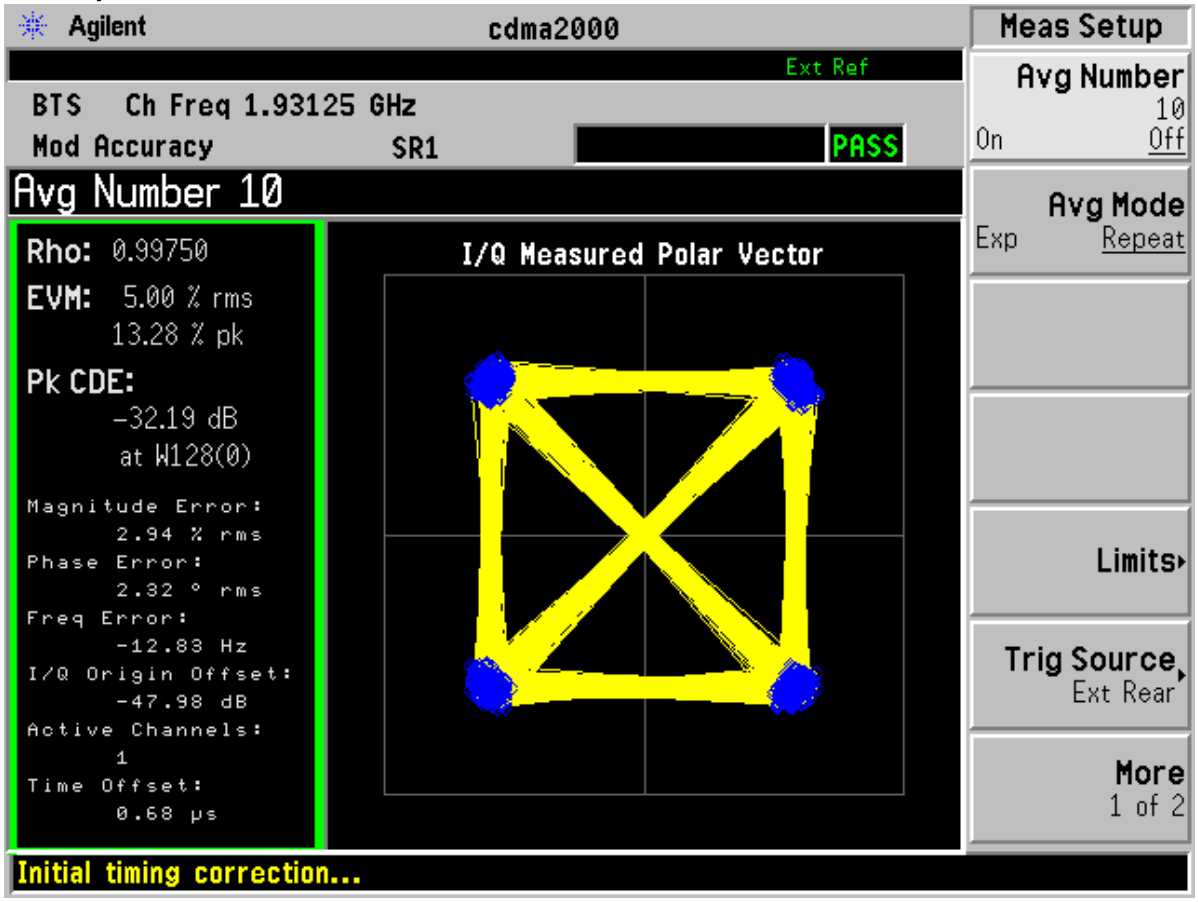
Voltage= - 55.2V



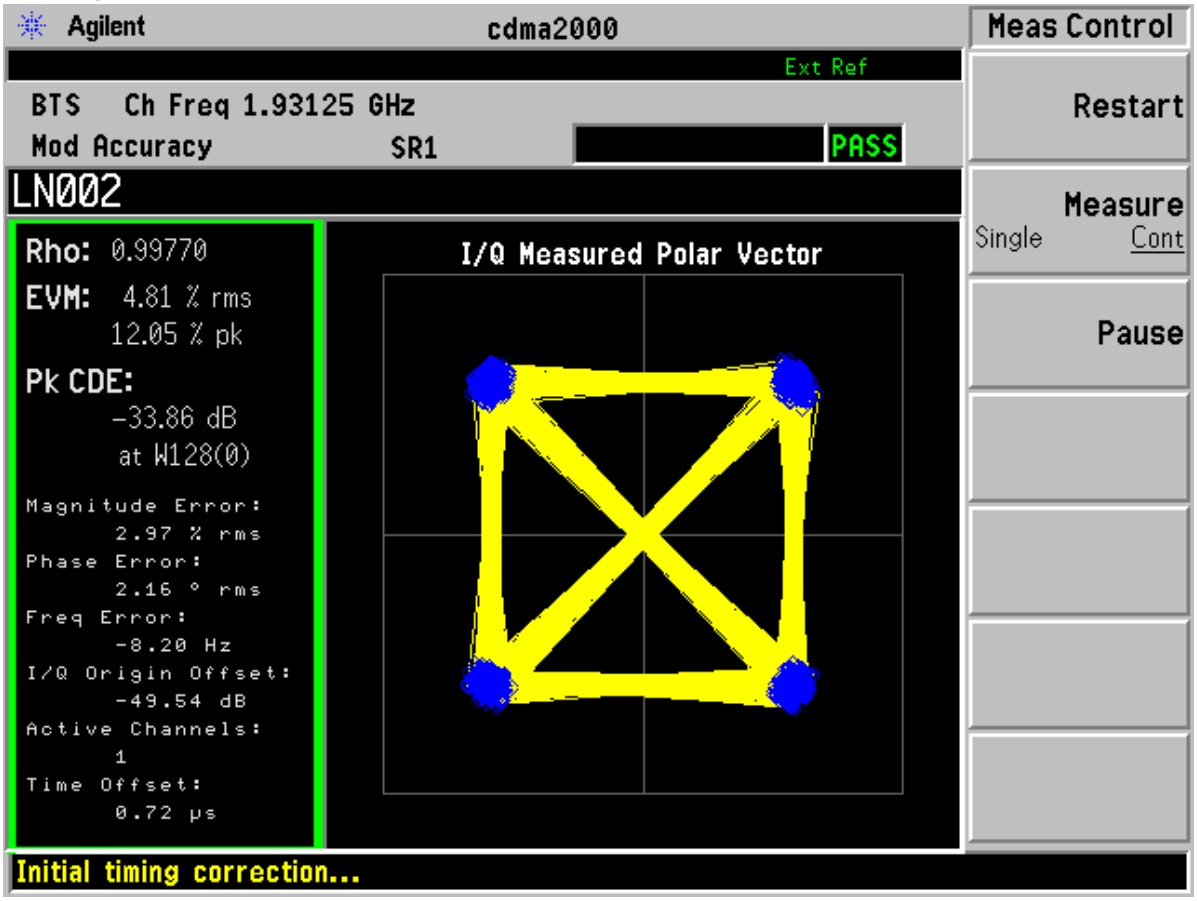
Frequency Stability versus Temperature

TRX1: Channel No. 25(1931.25MHz)

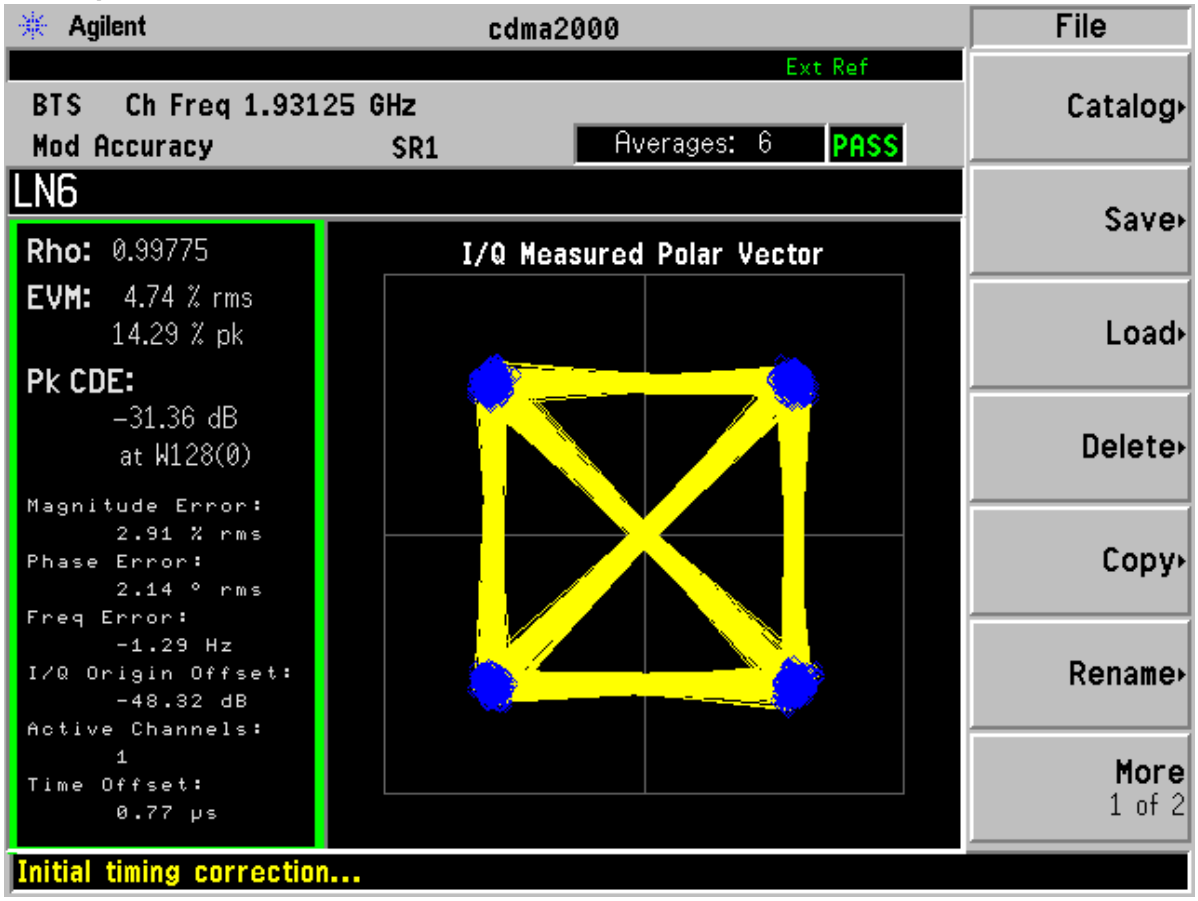
Temperature = - 30℃



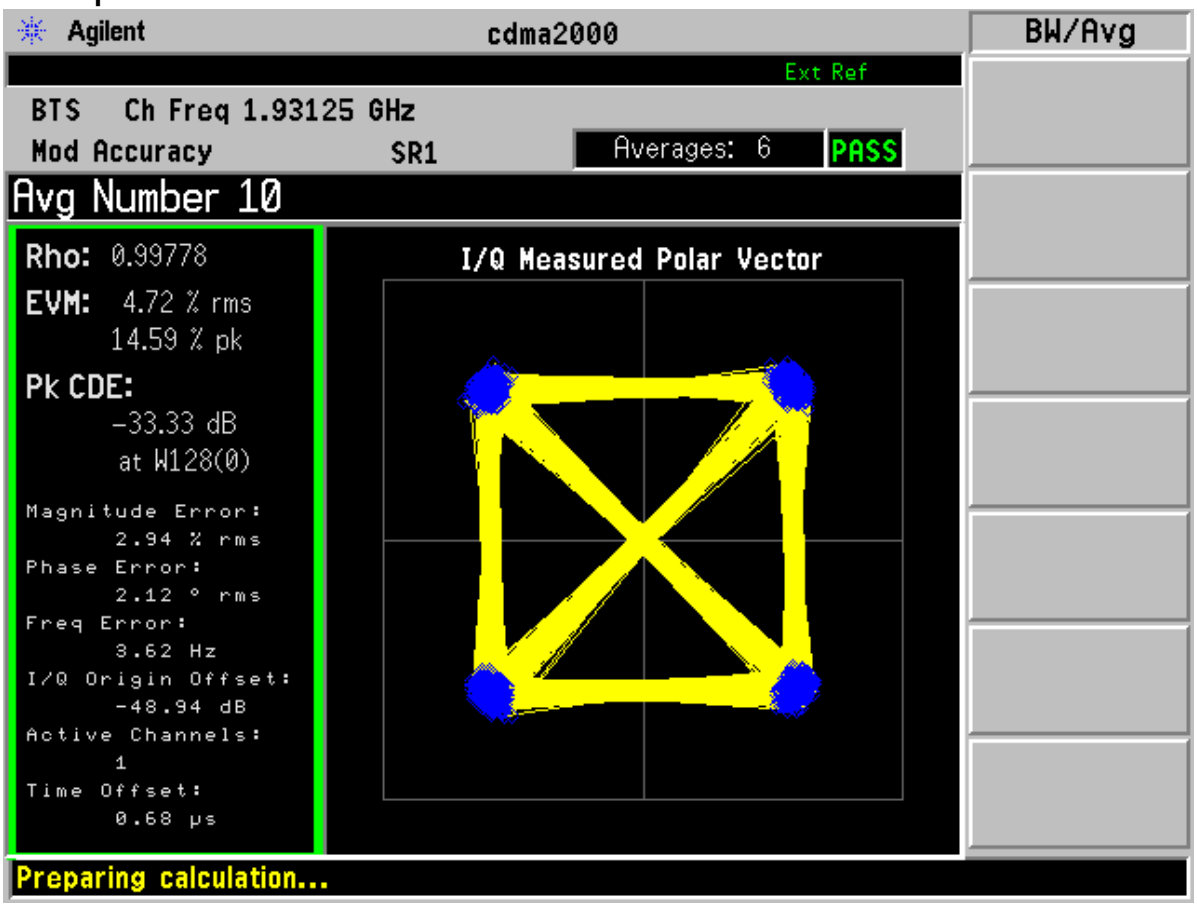
Temperature = - 20℃



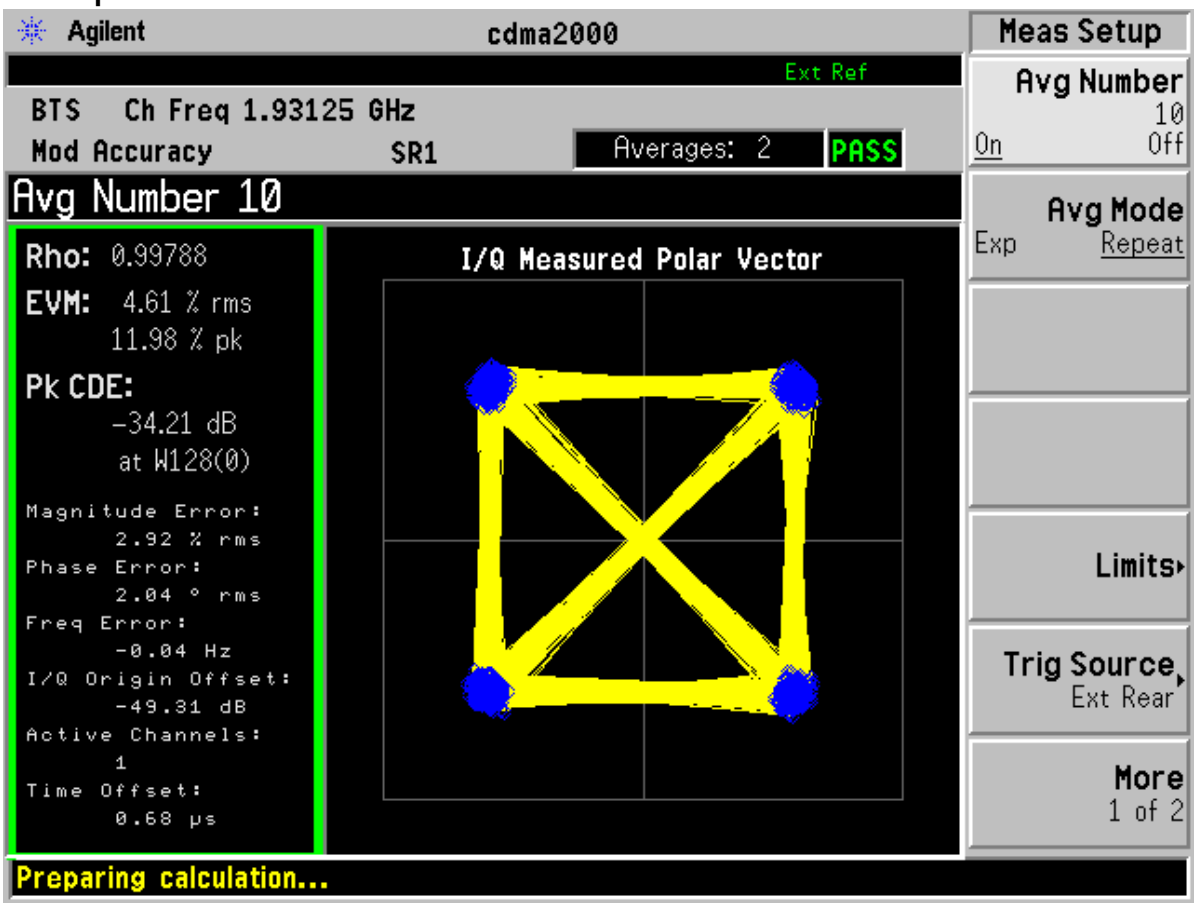
Temperature = - 10℃



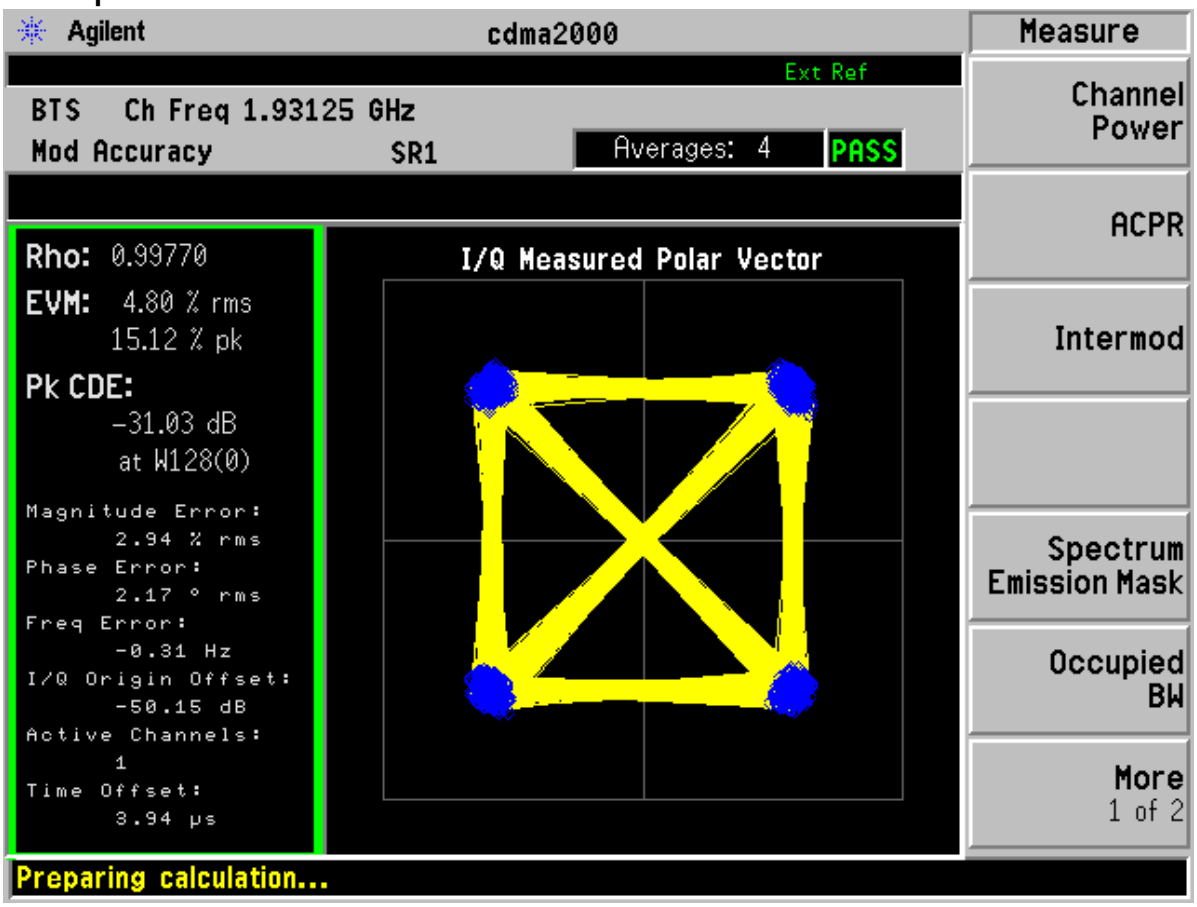
Temperature = 0℃



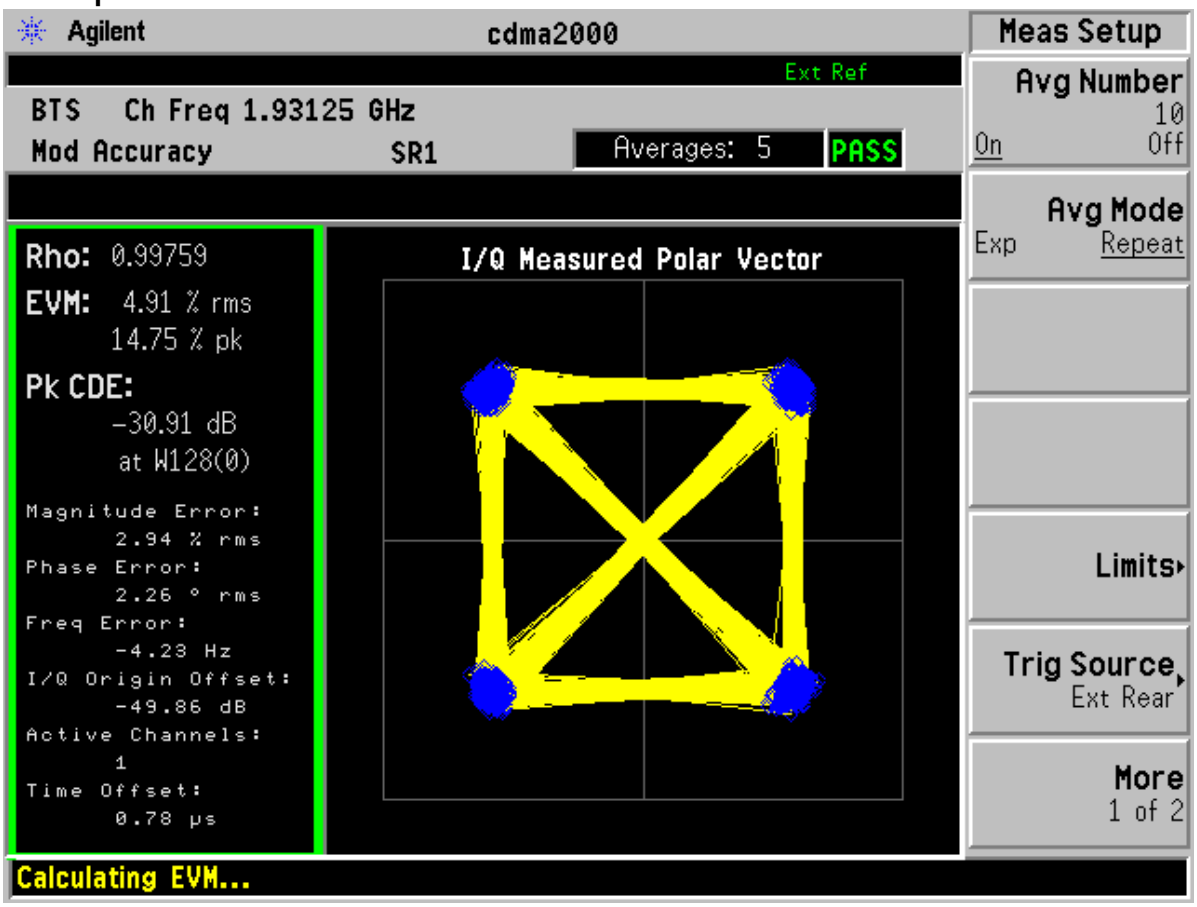
Temperature = 10℃



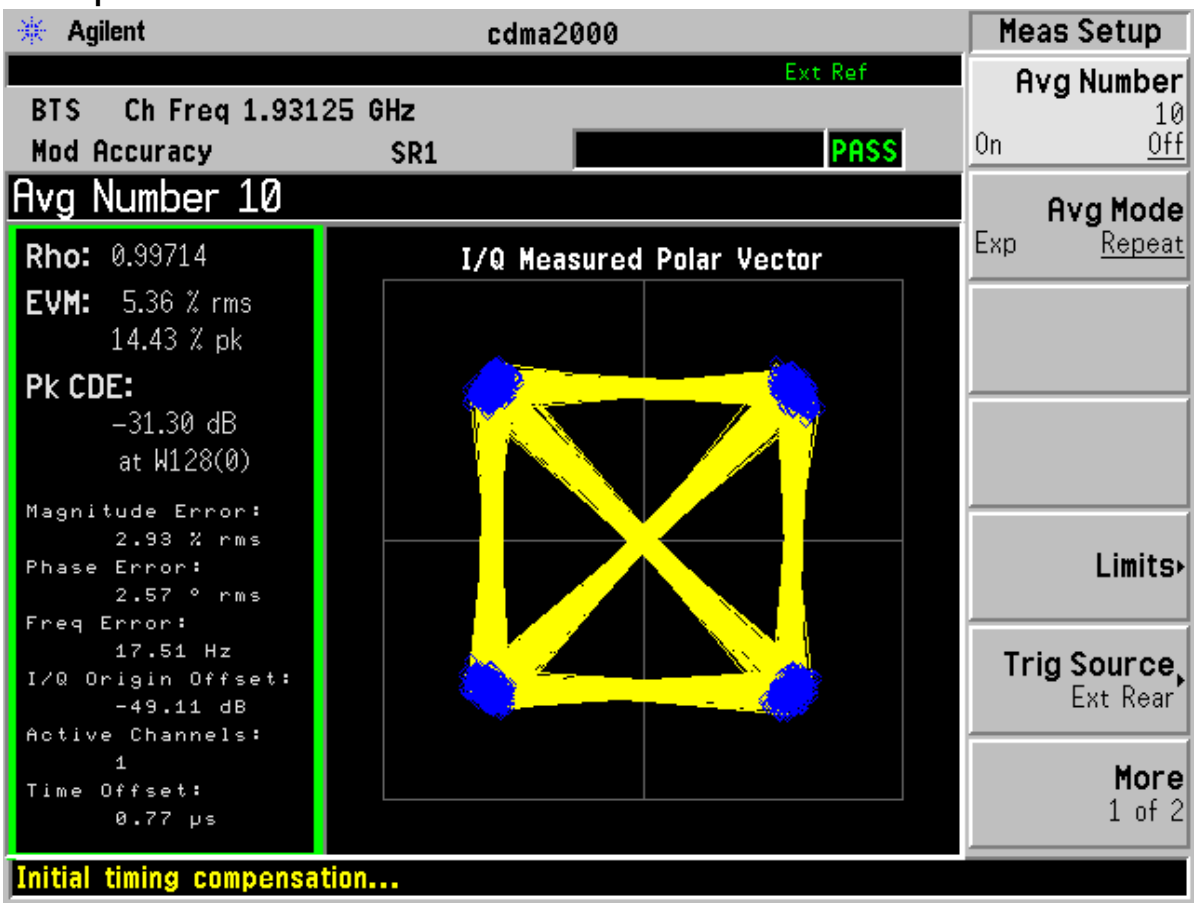
Temperature = 20℃



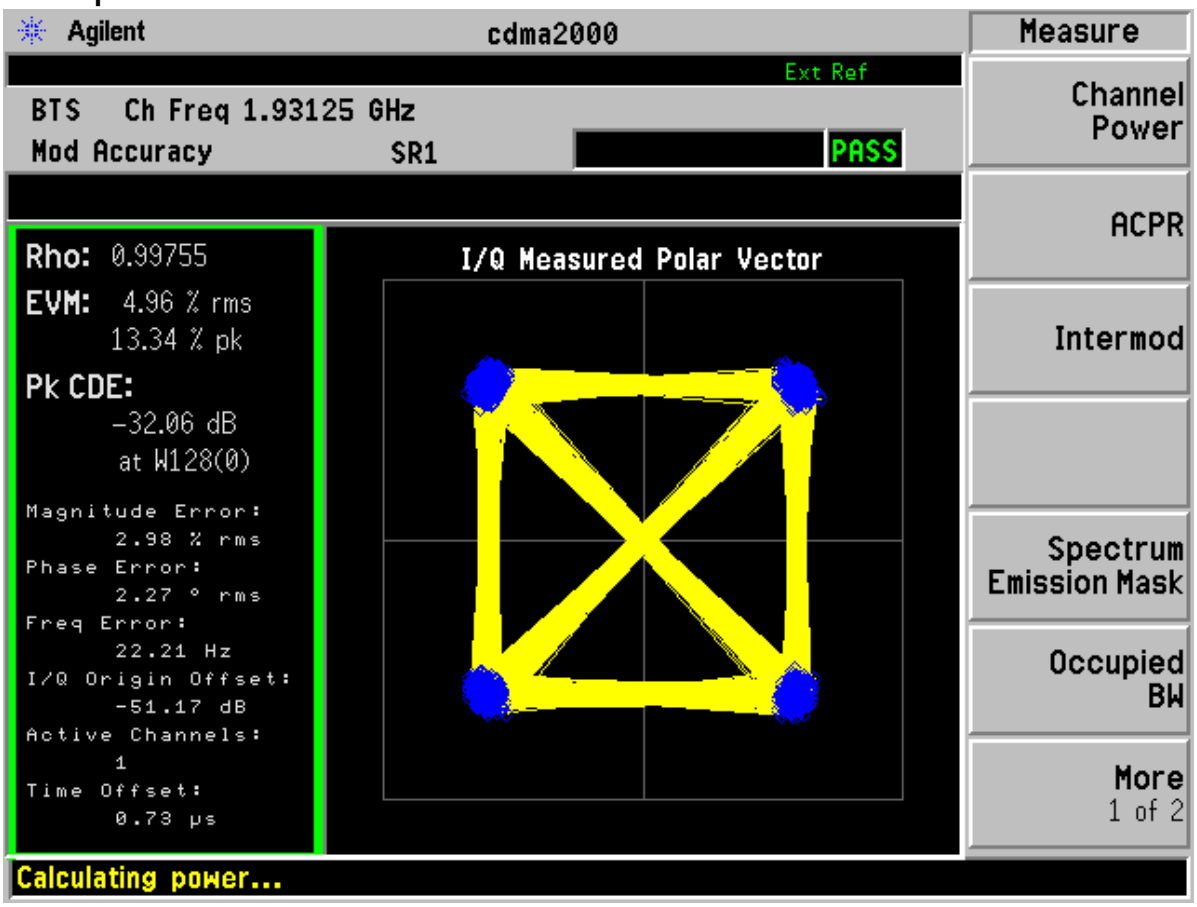
Temperature = 30℃



Temperature = 40℃



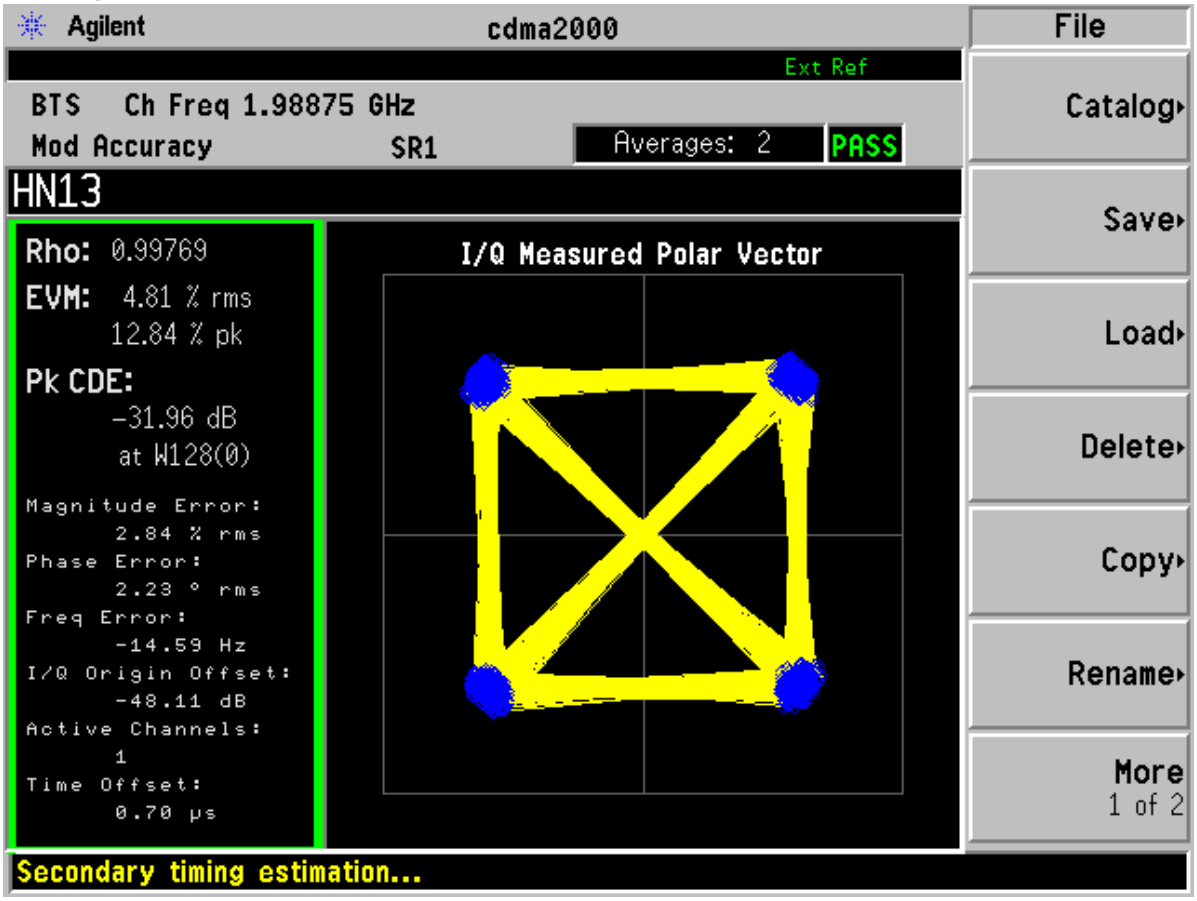
Temperature = 50℃



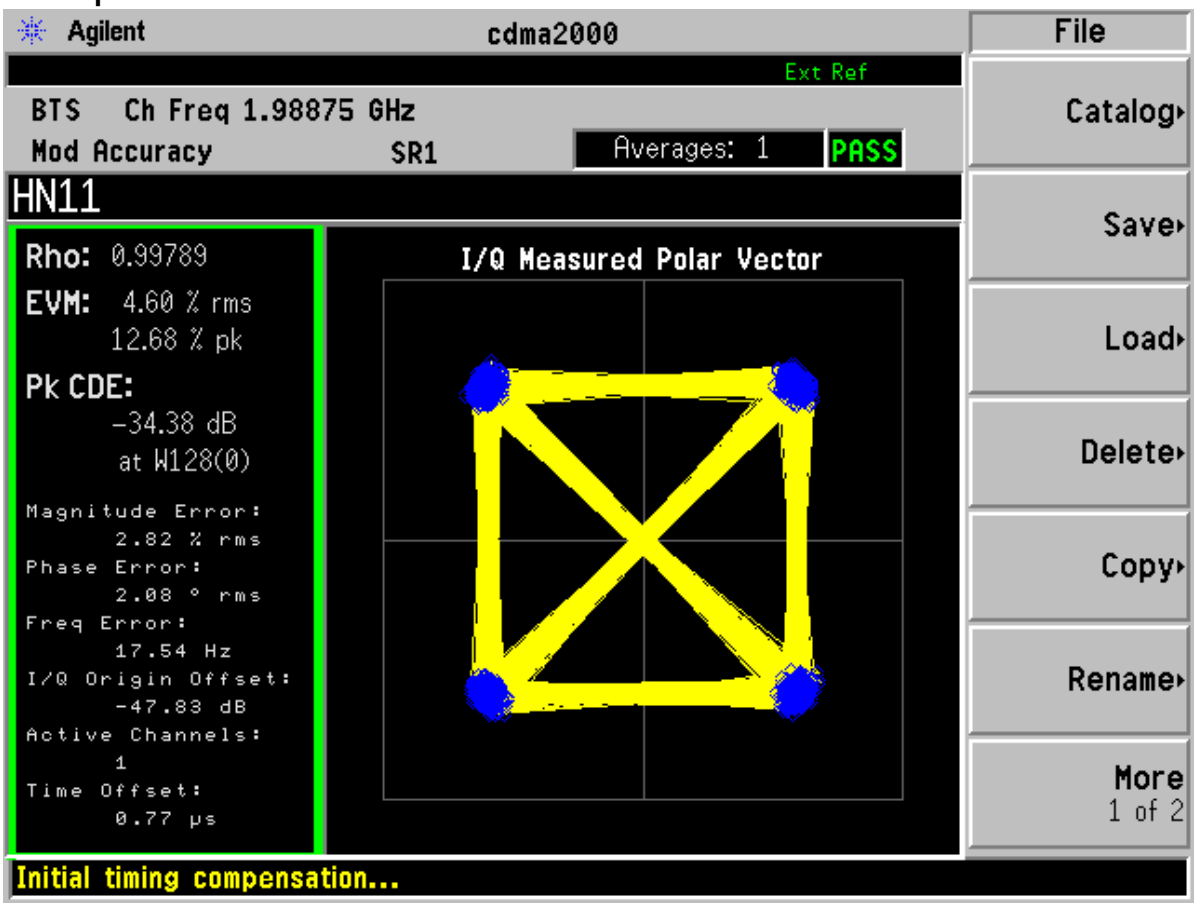
Frequency Stability versus Temperature

TRX1: Channel No. 1175(1988.75MHz)

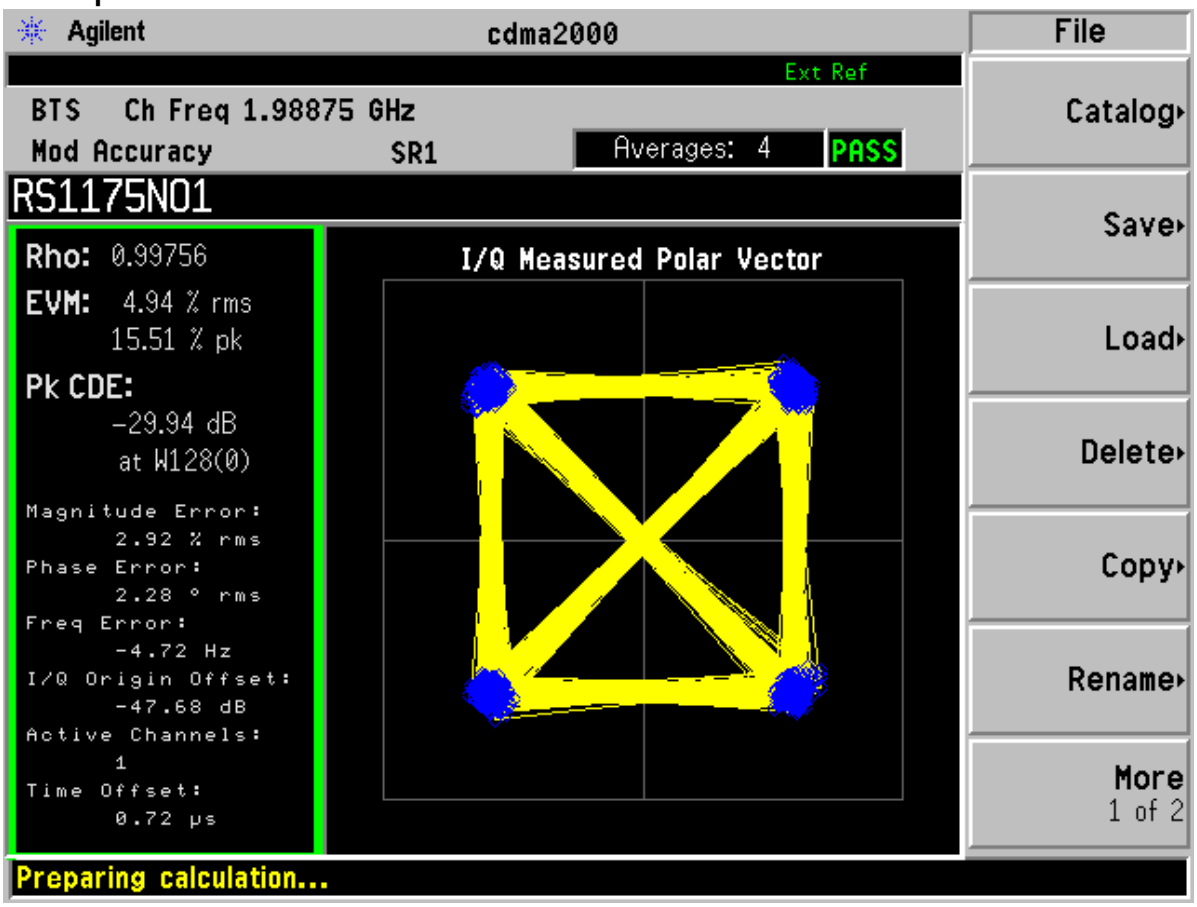
Temperature = - 30℃



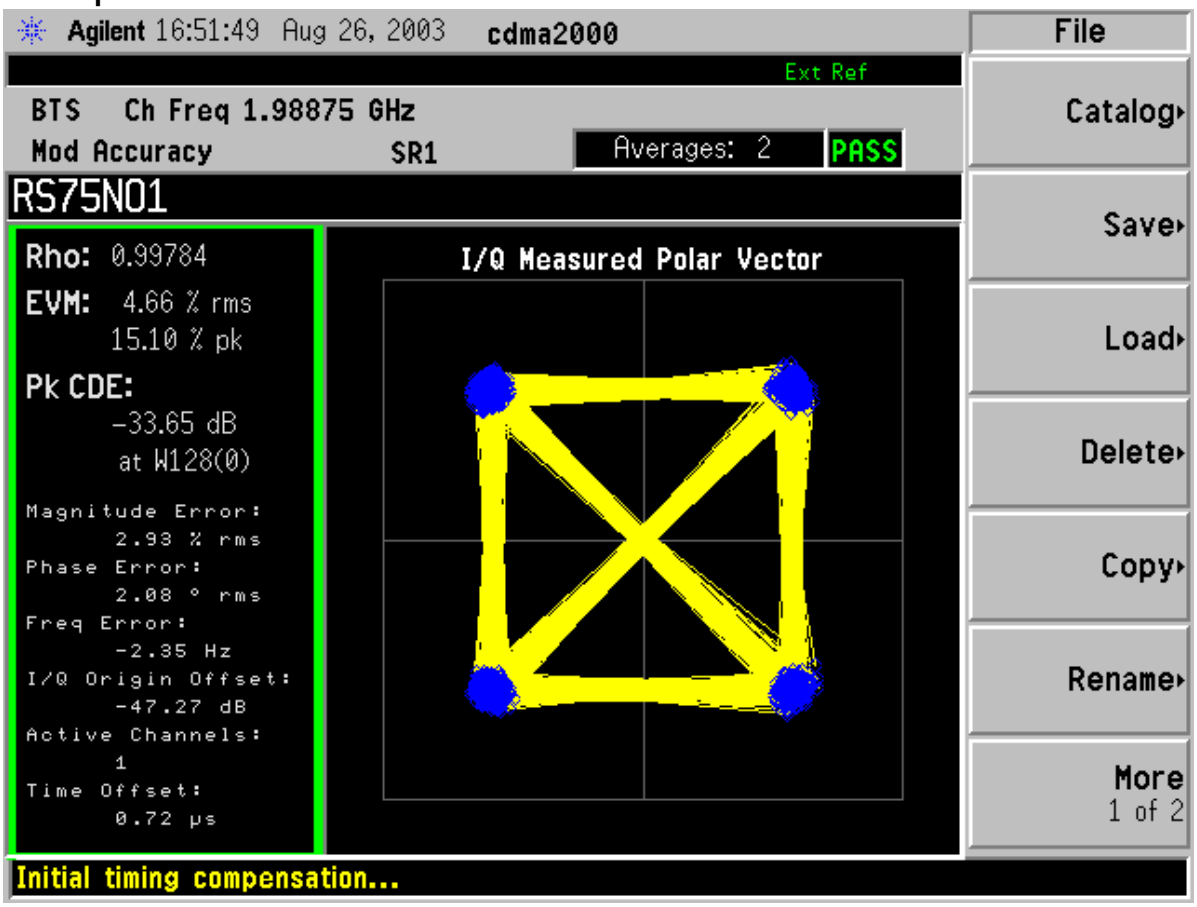
Temperature = - 20℃



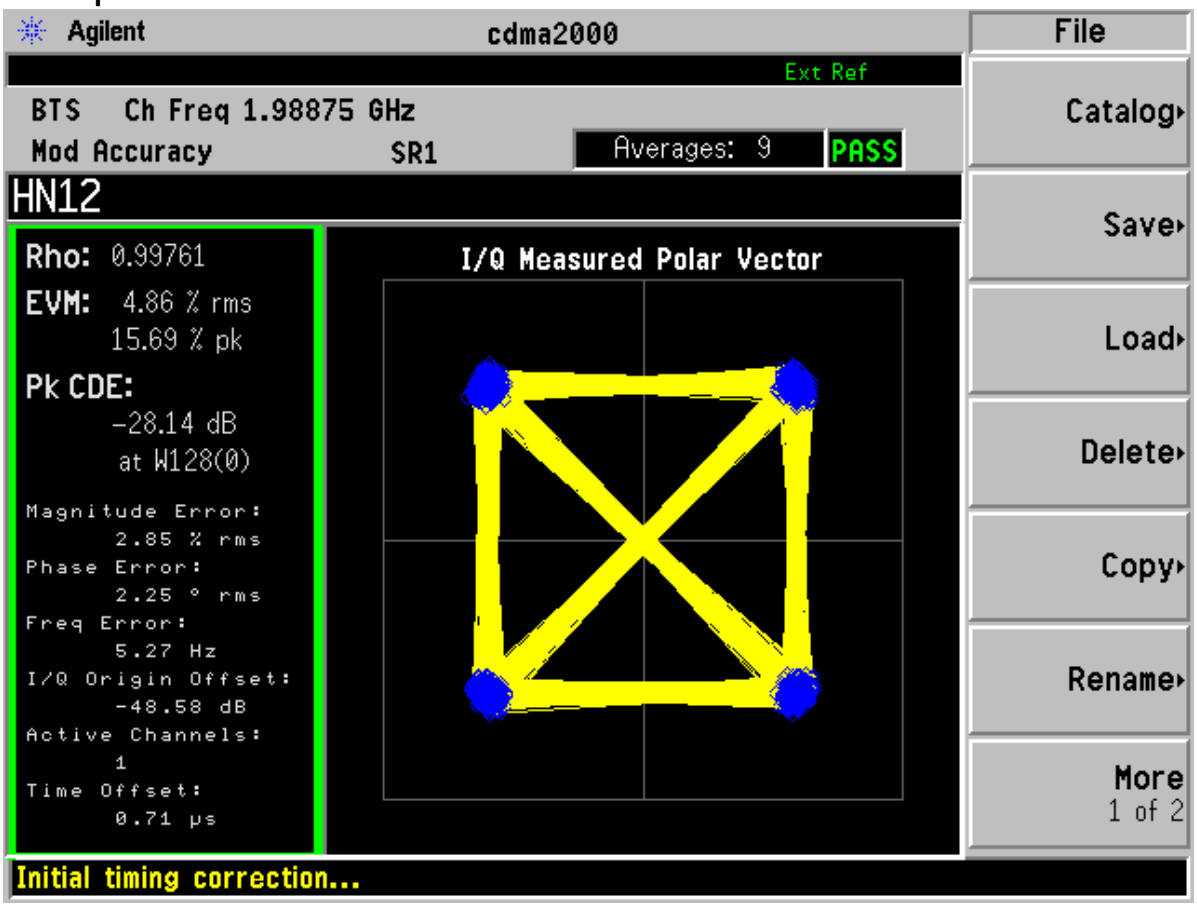
Temperature = - 10℃



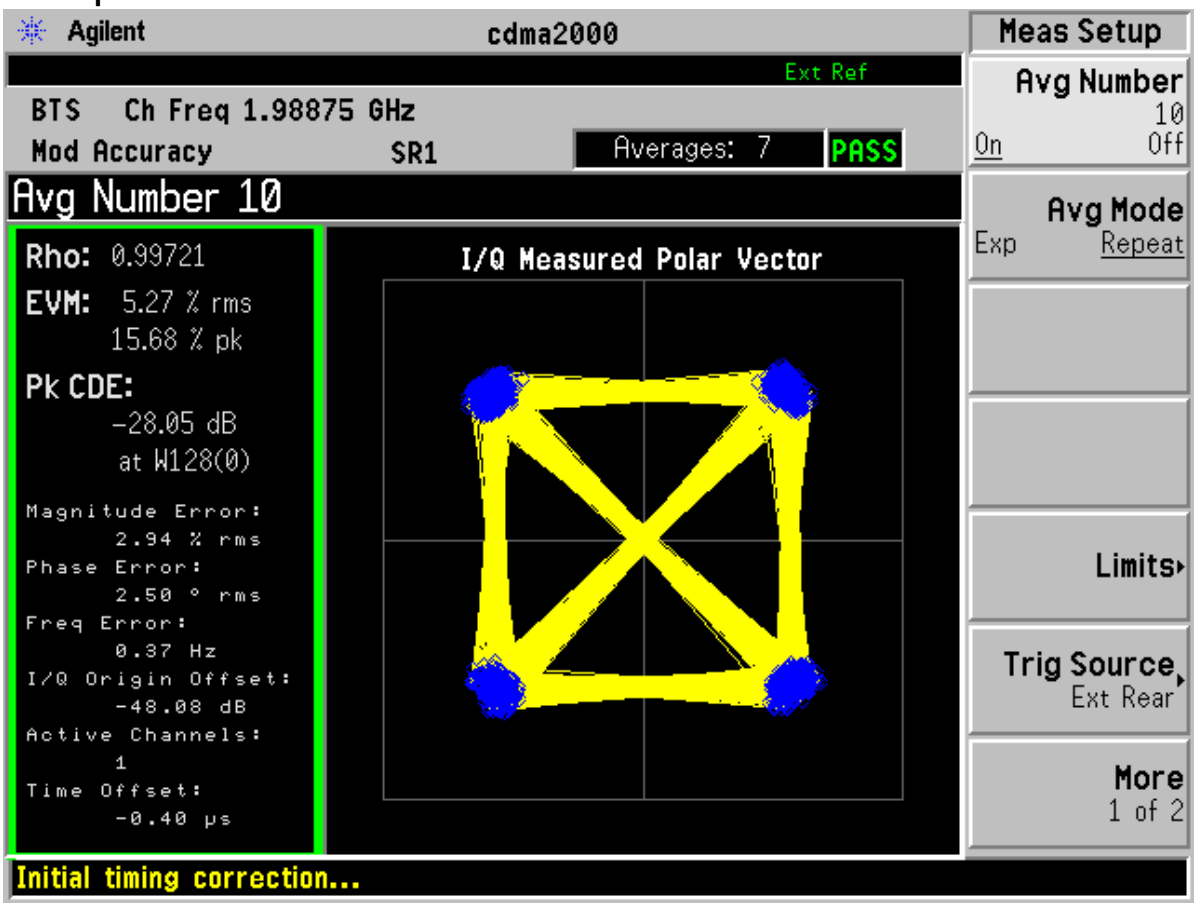
Temperature = 0℃



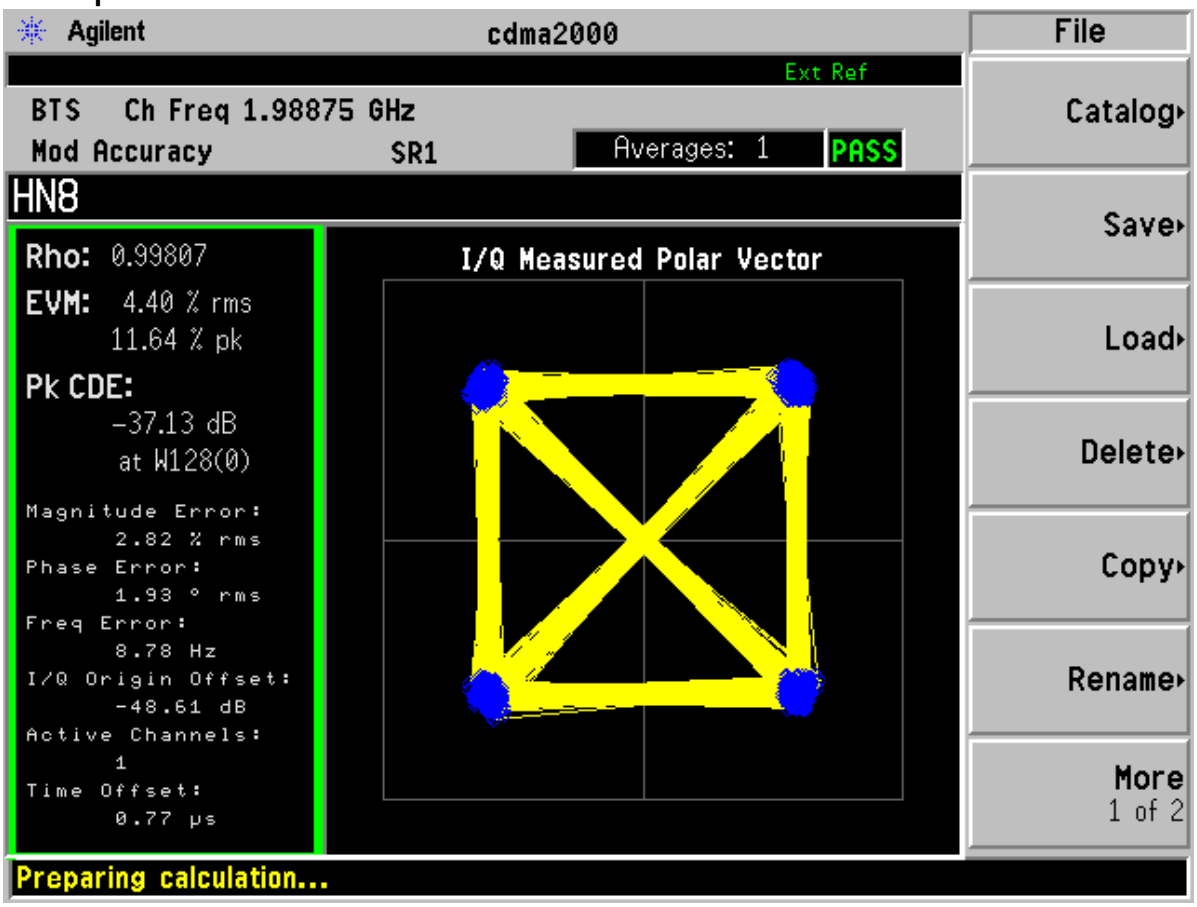
Temperature = 10℃



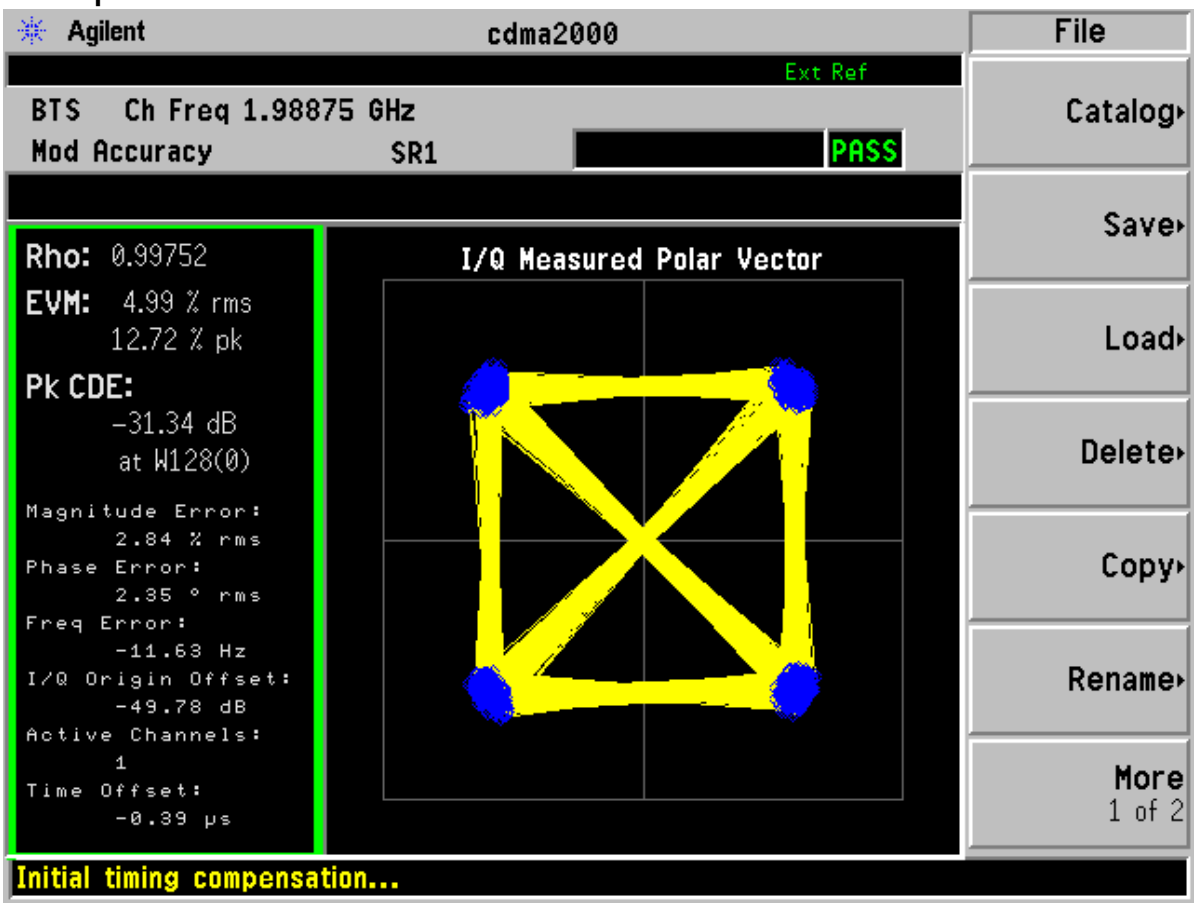
Temperature = 20℃



Temperature = 30℃



Temperature = 40℃



Temperature = 50℃