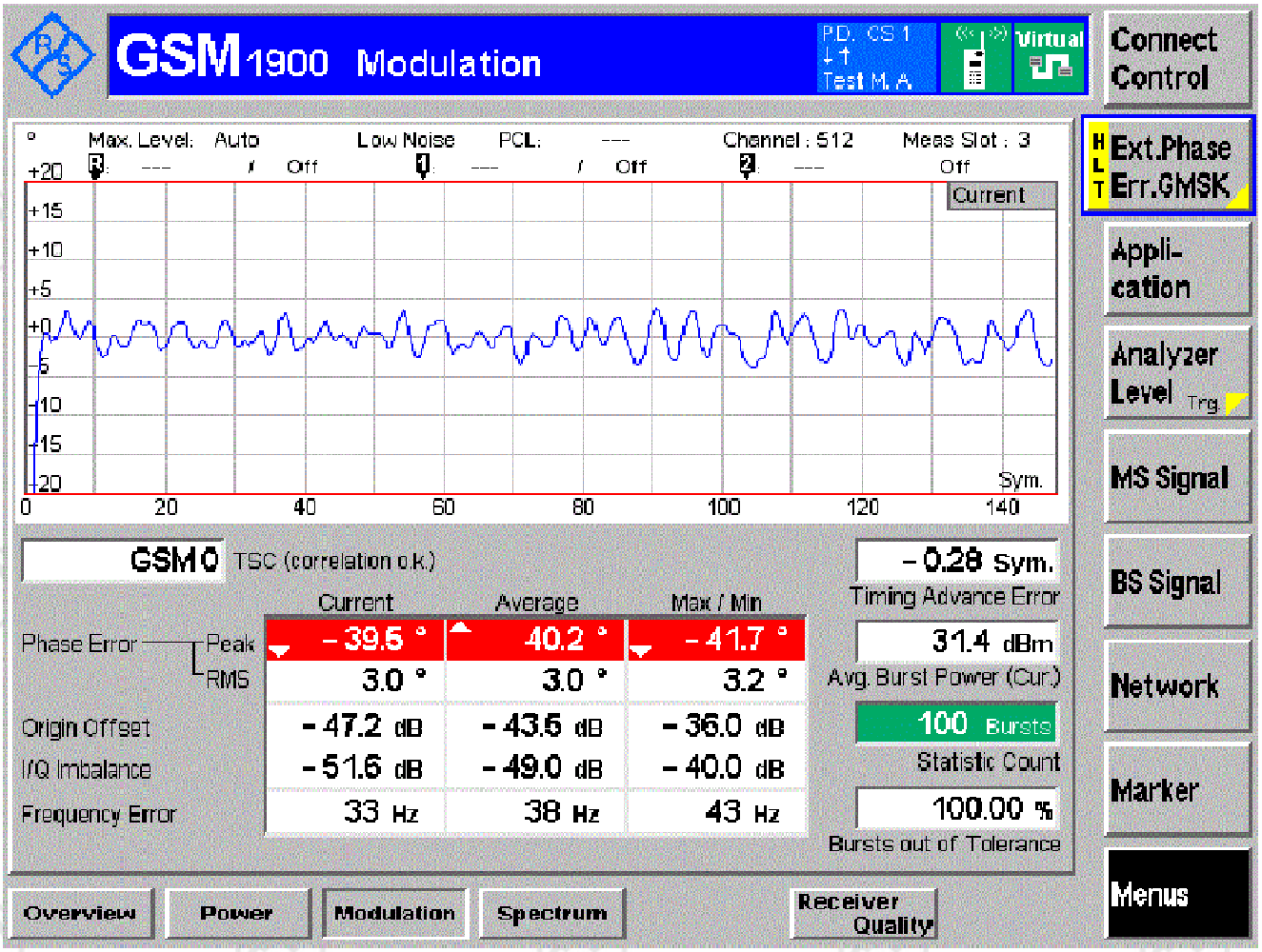
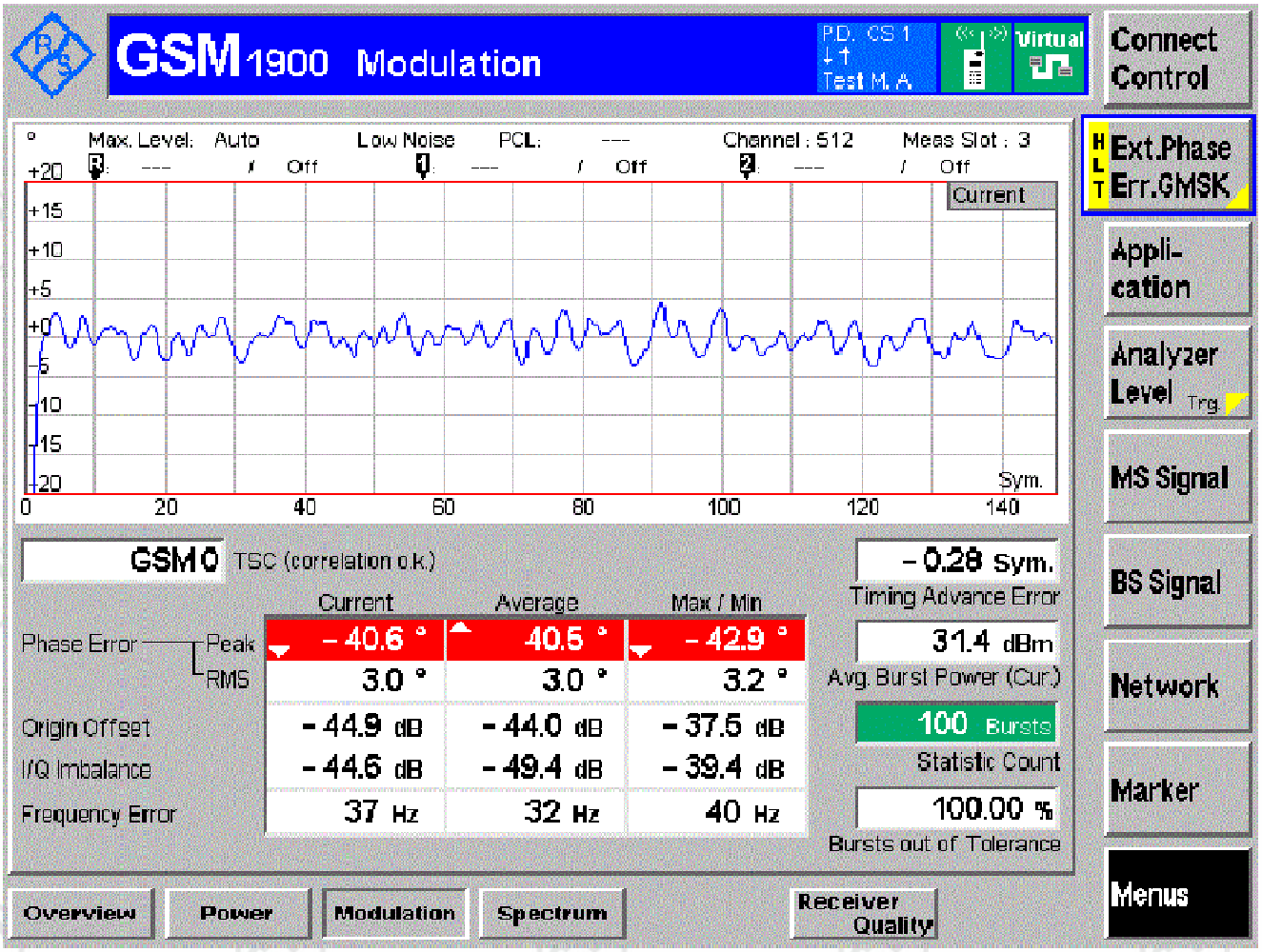
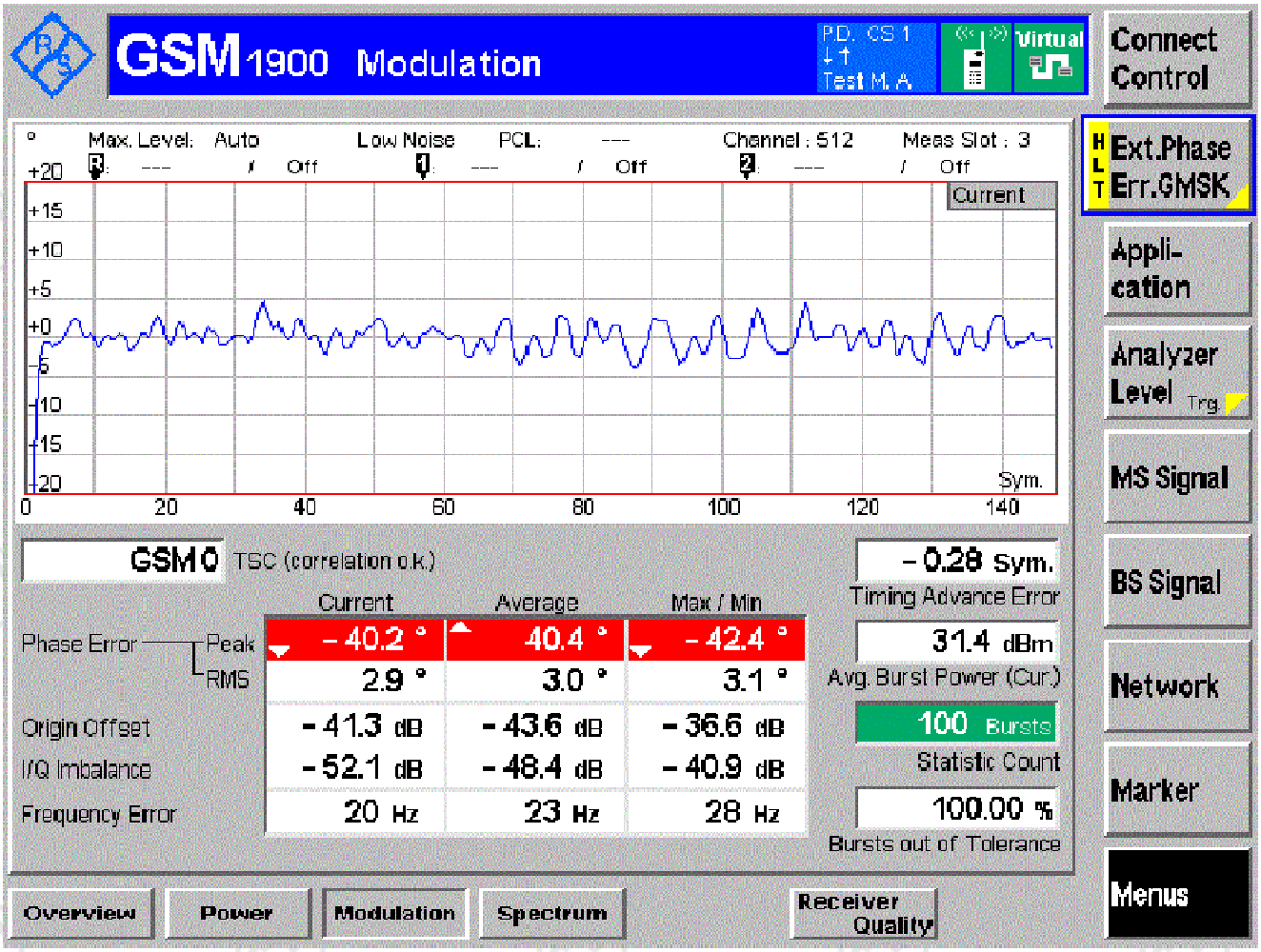
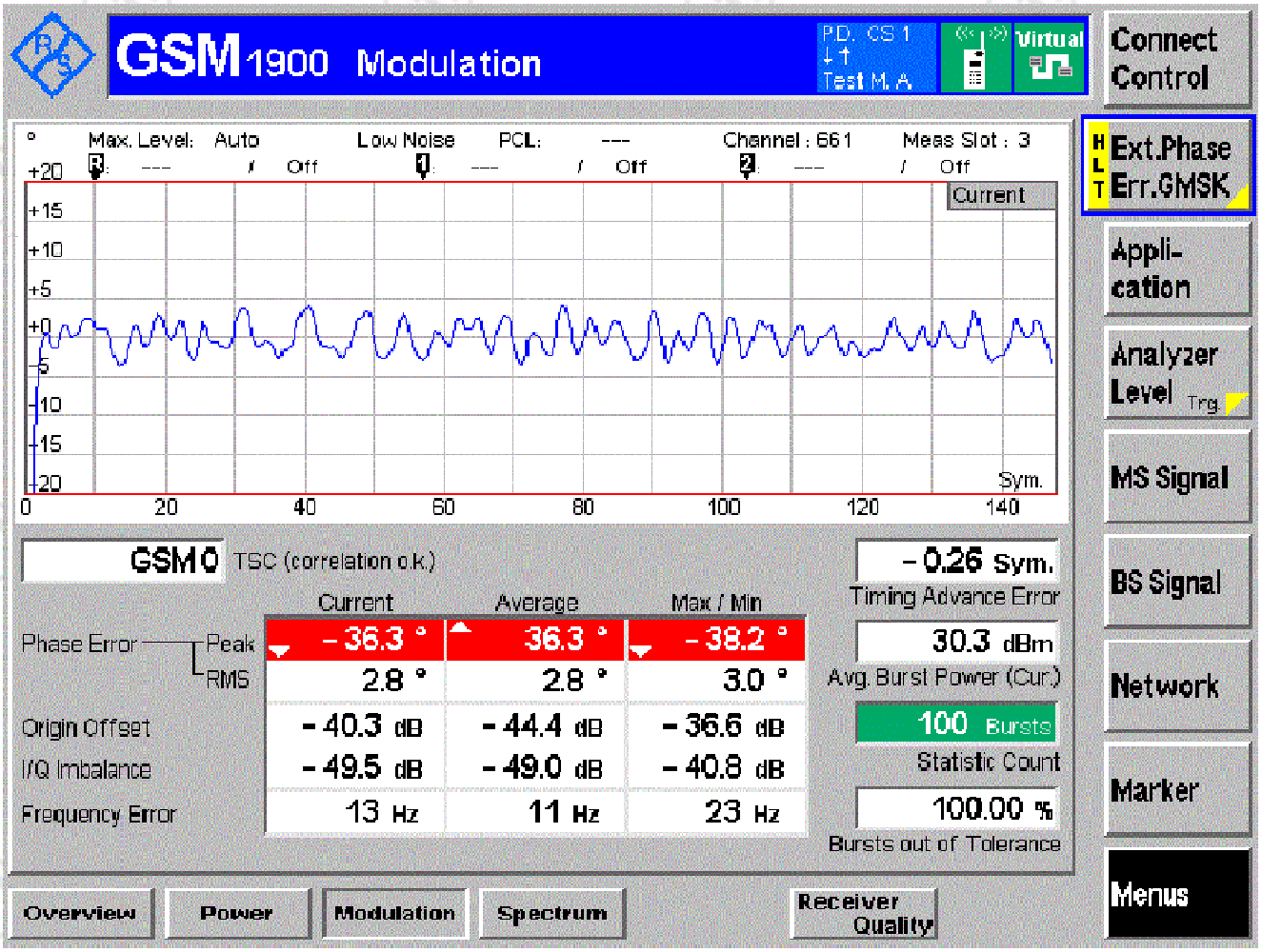
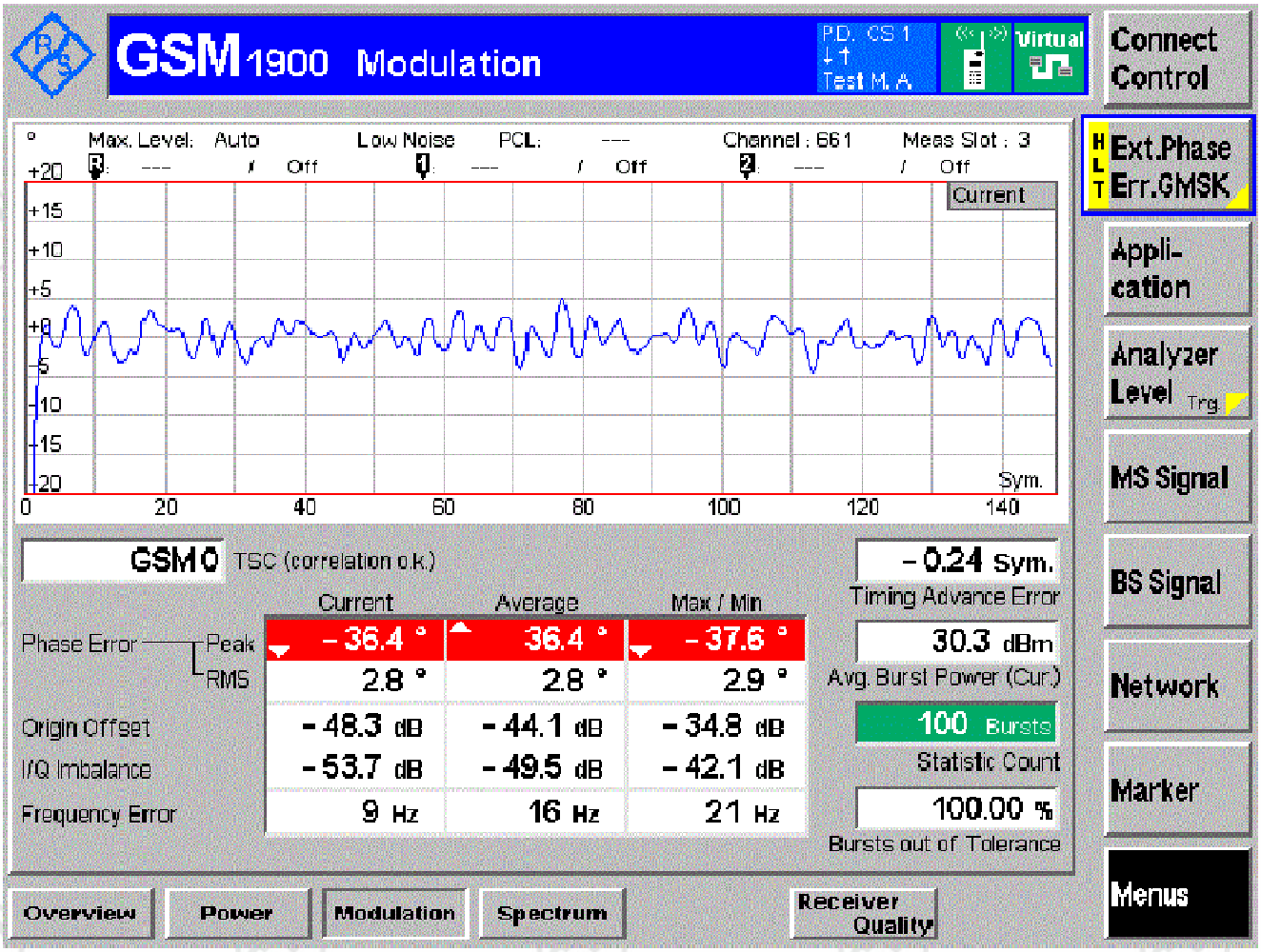

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 512
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
Origin Offset
I/Q Imbalance
Frequency Error
-39.5 °
40.2 °
-41.7 °
3.0 °
3.0 °
3.2 °
-47.2 dB
-43.5 dB
-36.0 dB
-51.6 dB
-49.0 dB
-40.0 dB
33 Hz
38 Hz
43 Hz
-0.28 Sym.
Timing Advance Error
31.4 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

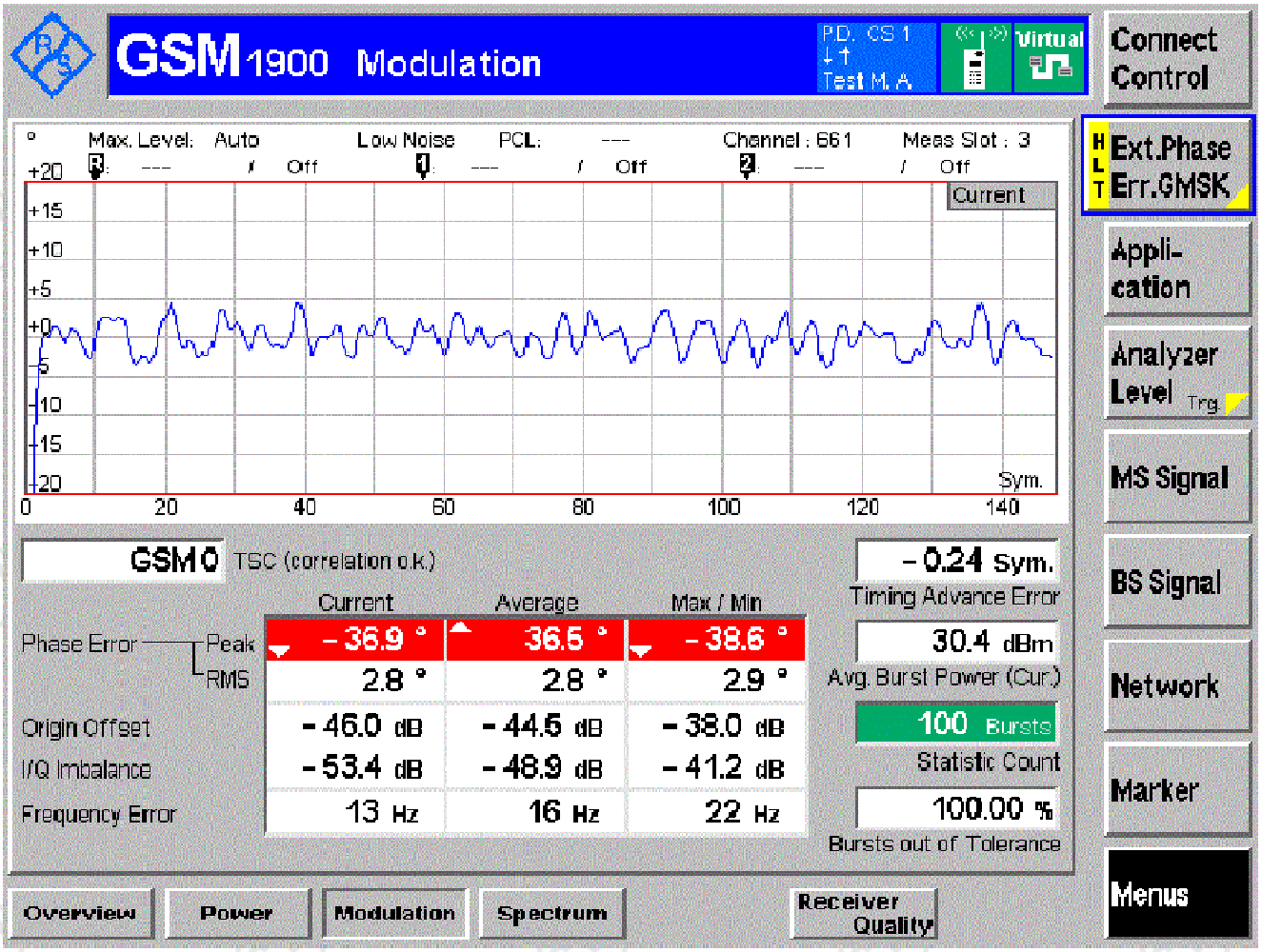

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 512
Meas Slot : 3
Off
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-40.6 °
40.5 °
-42.9 °
3.0 °
3.0 °
3.2 °
Origin Offset
-44.9 dB
-44.0 dB
-37.5 dB
I/Q Imbalance
-44.6 dB
-49.4 dB
-39.4 dB
Frequency Error
37 Hz
32 Hz
40 Hz
-0.28 Sym.
Timing Advance Error
31.4 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

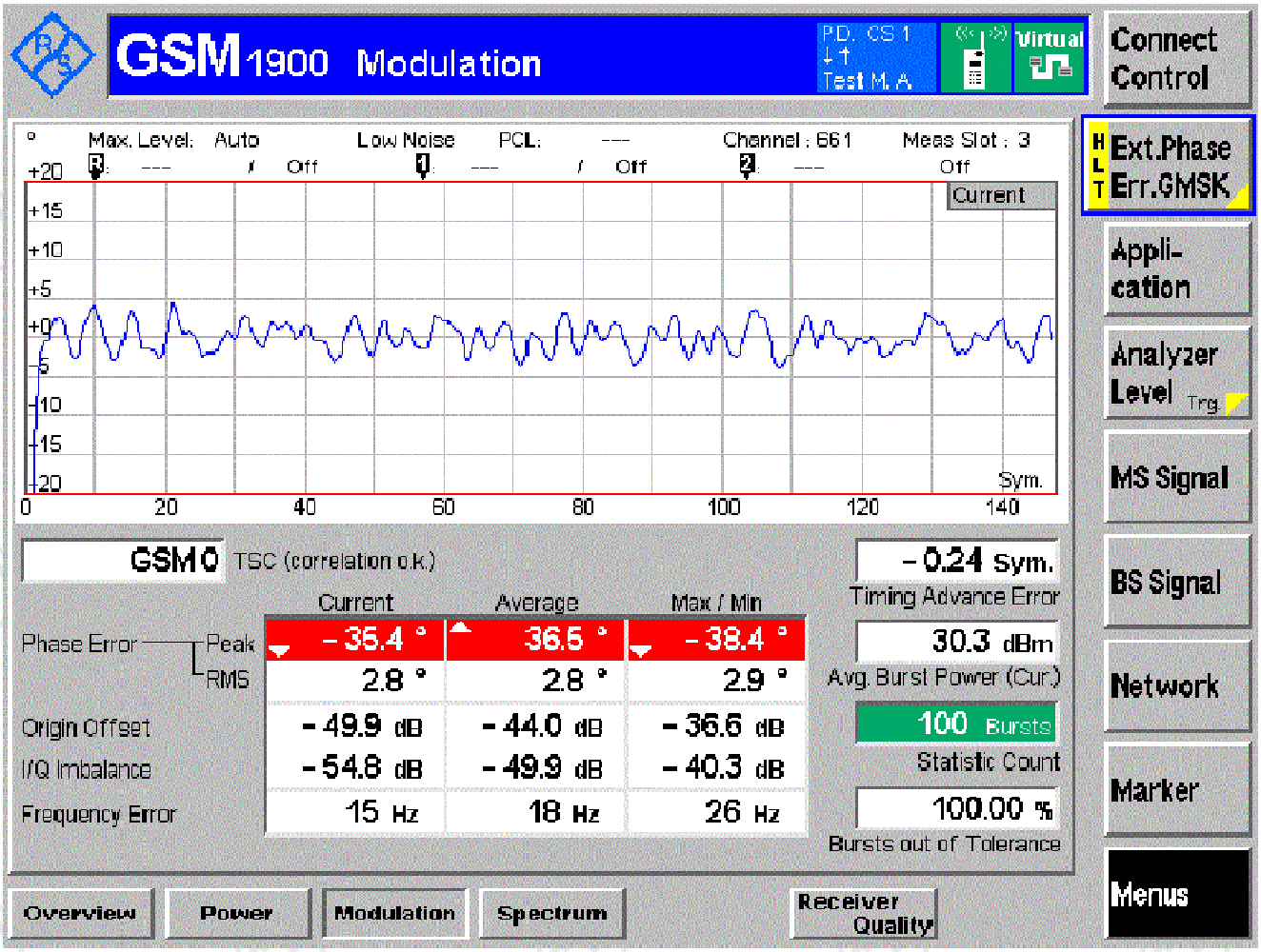

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 512
Meas Slot : 3
Off
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-40.2 °
40.4 °
-42.4 °
2.9 °
3.0 °
3.1 °
Origin Offset
-41.3 dB
-43.6 dB
-36.6 dB
I/Q Imbalance
-52.1 dB
-48.4 dB
-40.9 dB
Frequency Error
20 Hz
23 Hz
28 Hz
-0.28 Sym.
Timing Advance Error
31.4 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

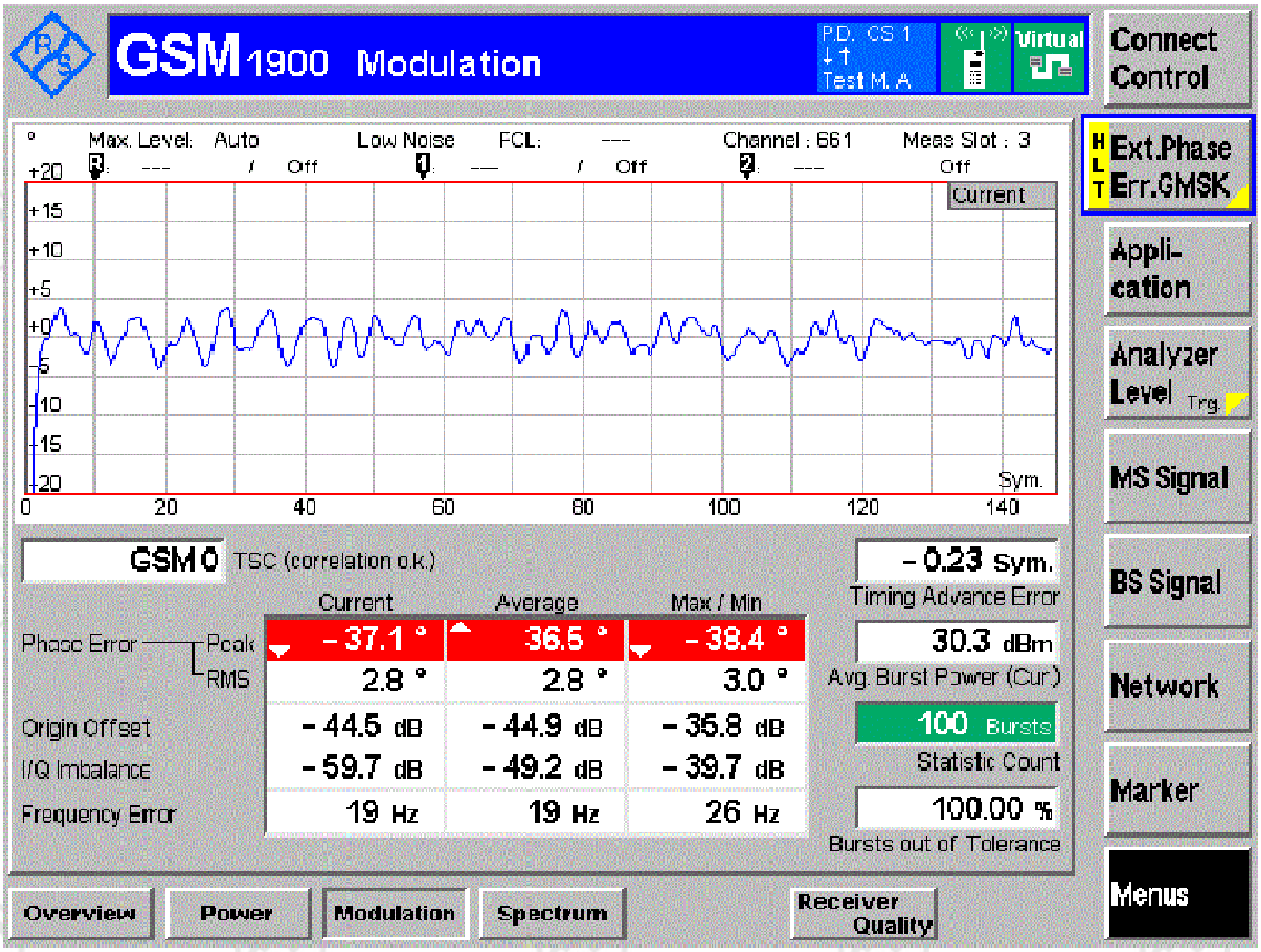
MCH

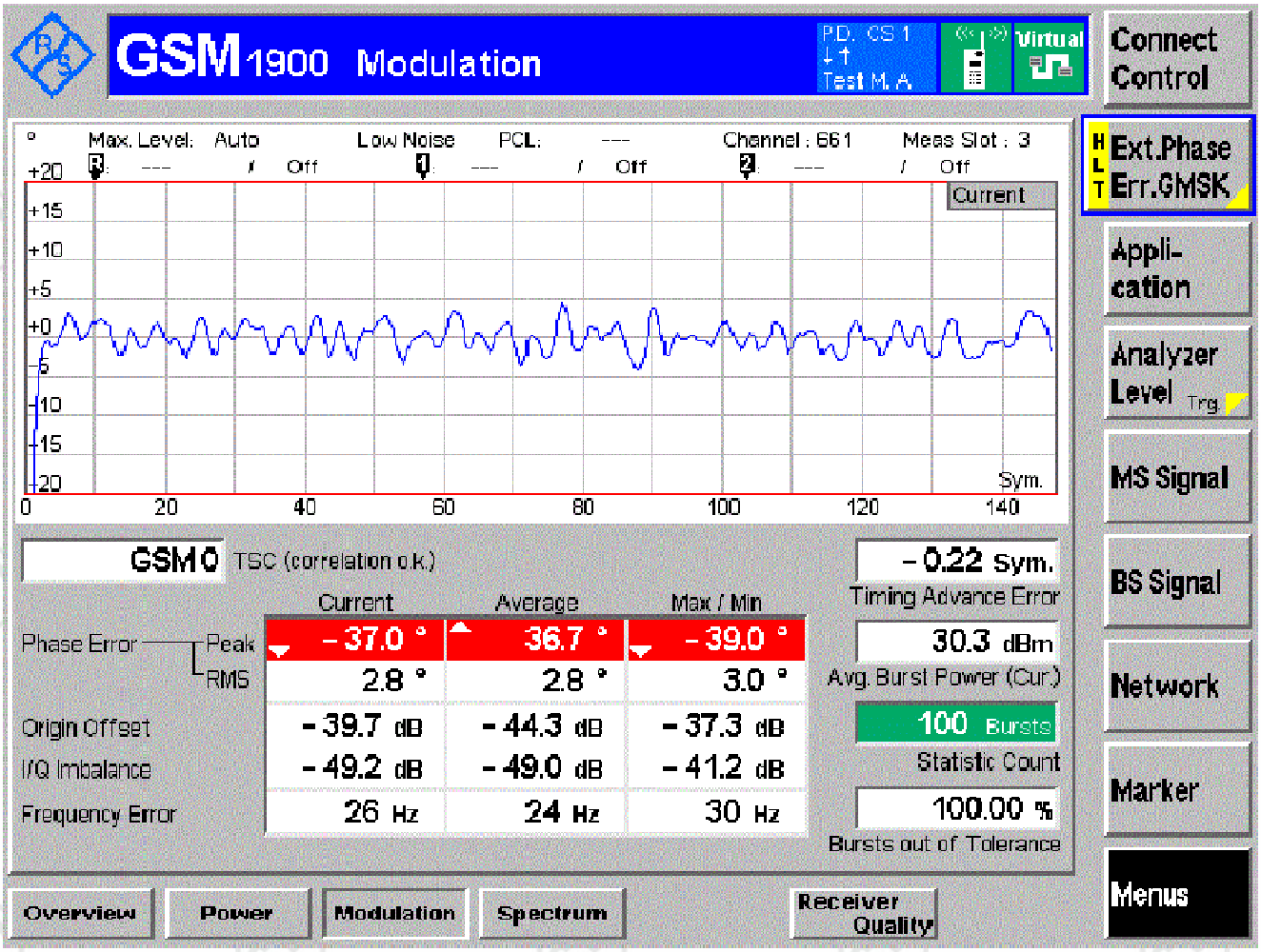

GSM1900 Modulation
P.D. CS 1
Test M.A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL: ---
Channel : 661
Meas Slot : 3
Current
Sym.
GSM0 TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-36.3 °
36.3 °
-38.2 °
2.8 °
2.8 °
3.0 °
Origin Offset
-40.3 dB
-44.4 dB
-36.6 dB
I/Q Imbalance
-49.5 dB
-49.0 dB
-40.8 dB
Frequency Error
13 Hz
11 Hz
23 Hz
-0.26 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

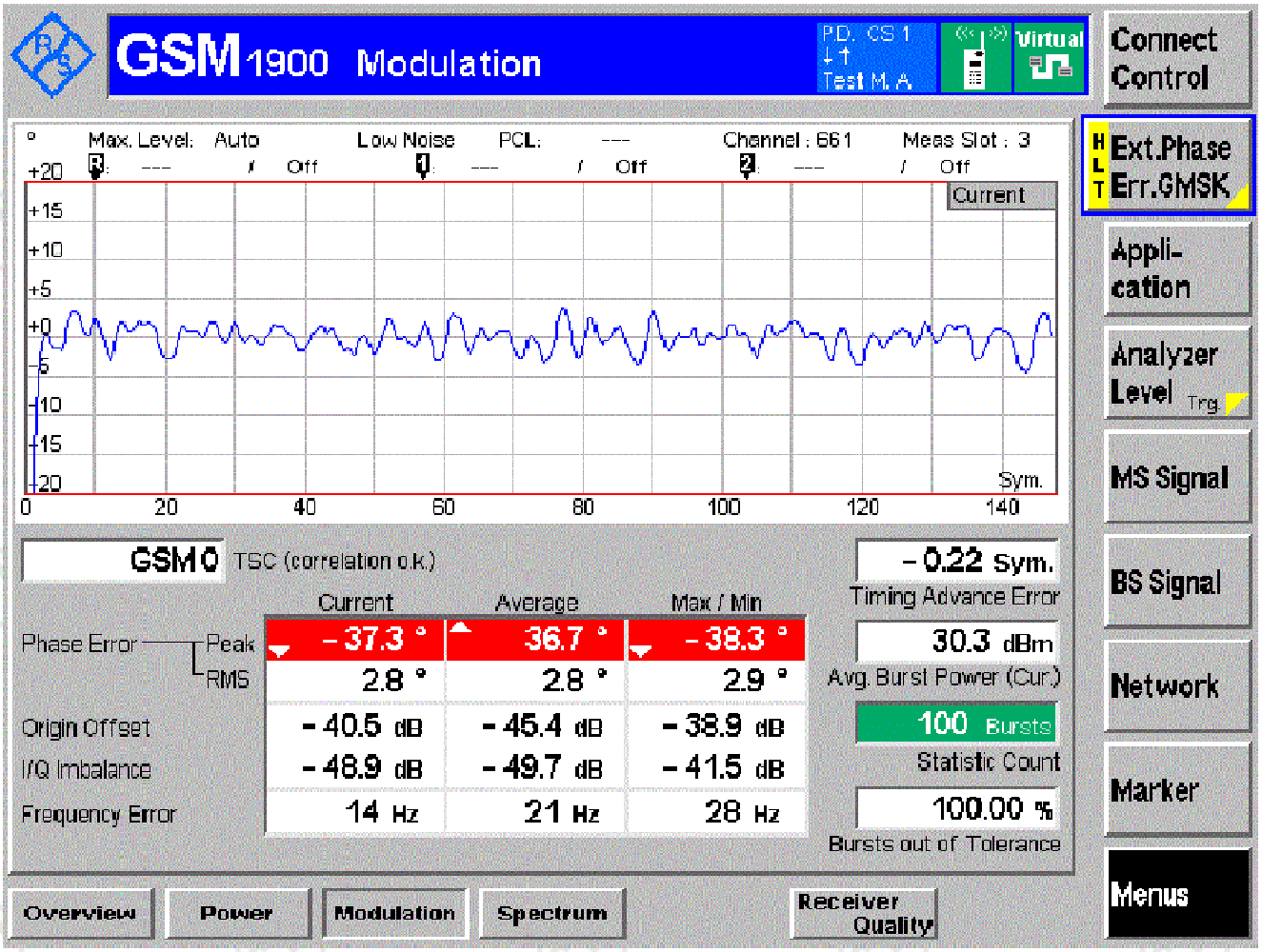

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-36.4 °
36.4 °
-37.6 °
2.8 °
2.8 °
2.9 °
Origin Offset
-48.3 dB
-44.1 dB
-34.8 dB
I/Q Imbalance
-53.7 dB
-49.5 dB
-42.1 dB
Frequency Error
9 Hz
16 Hz
21 Hz
-0.24 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

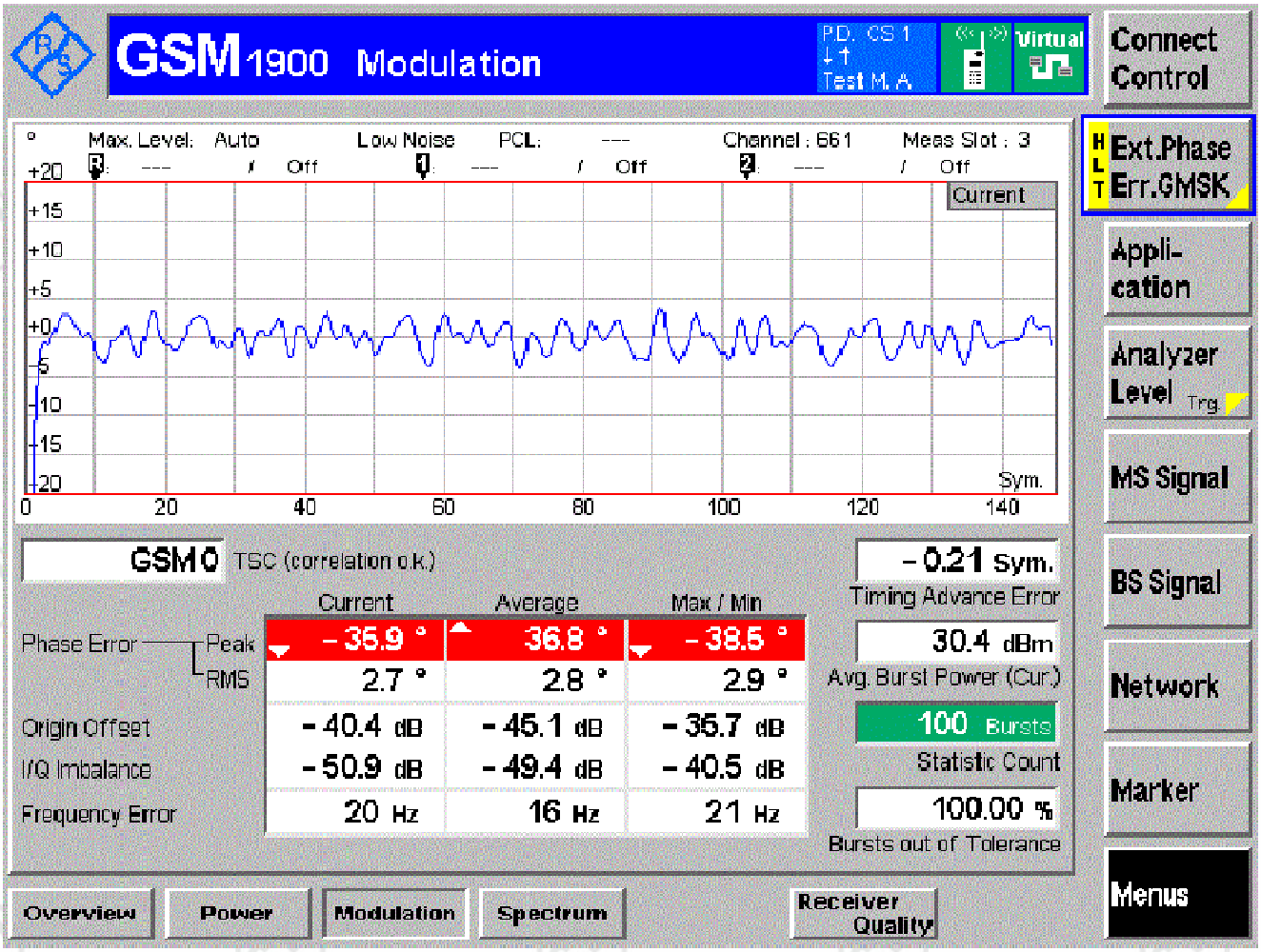

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-36.9 °
36.5 °
-38.6 °
2.8 °
2.8 °
2.9 °
Origin Offset
-46.0 dB
-44.5 dB
-38.0 dB
I/Q Imbalance
-53.4 dB
-48.9 dB
-41.2 dB
Frequency Error
13 Hz
16 Hz
22 Hz
-0.24 Sym.
Timing Advance Error
30.4 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

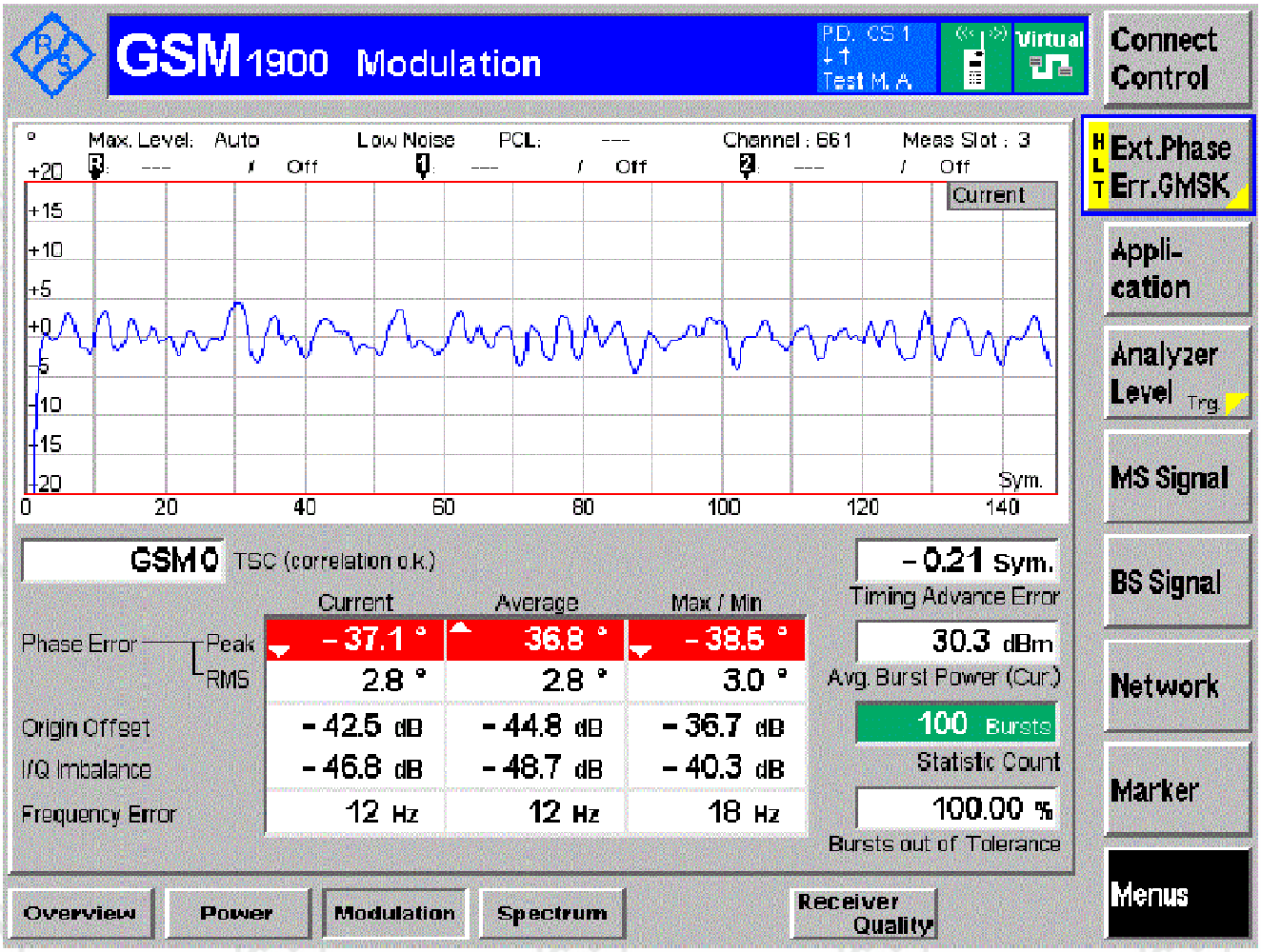

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-35.4 °
36.5 °
-38.4 °
2.8 °
2.8 °
2.9 °
Origin Offset
-49.9 dB
-44.0 dB
-36.6 dB
I/Q Imbalance
-54.8 dB
-49.9 dB
-40.3 dB
Frequency Error
15 Hz
18 Hz
26 Hz
-0.24 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-37.1 °
36.5 °
-38.4 °
2.8 °
2.8 °
3.0 °
Origin Offset
-44.5 dB
-44.9 dB
-35.8 dB
I/Q Imbalance
-59.7 dB
-49.2 dB
-39.7 dB
Frequency Error
19 Hz
19 Hz
26 Hz
-0.23 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

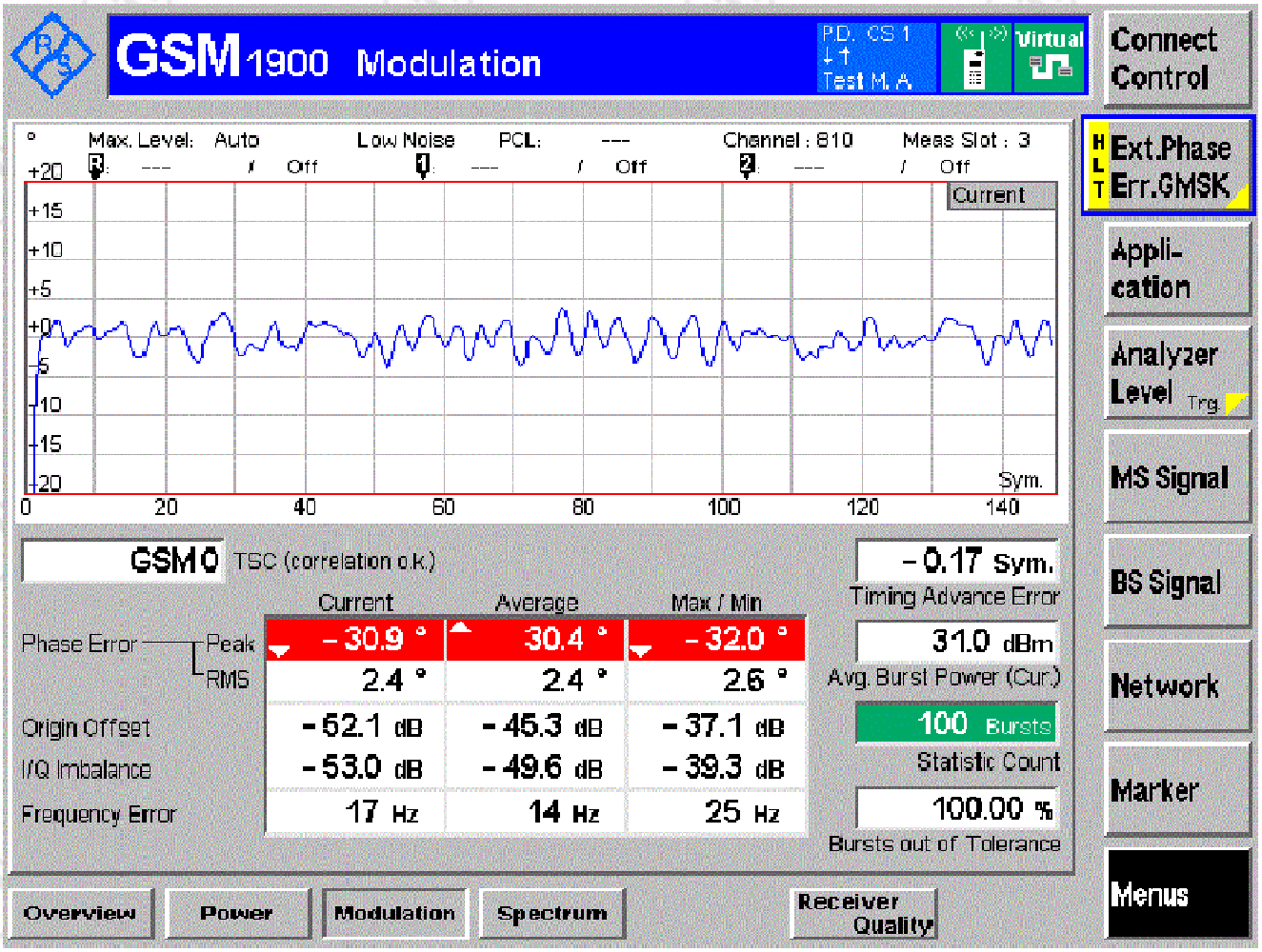

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-37.0 °
36.7 °
-39.0 °
2.8 °
2.8 °
3.0 °
Origin Offset
-39.7 dB
-44.3 dB
-37.3 dB
I/Q Imbalance
-49.2 dB
-49.0 dB
-41.2 dB
Frequency Error
26 Hz
24 Hz
30 Hz
-0.22 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

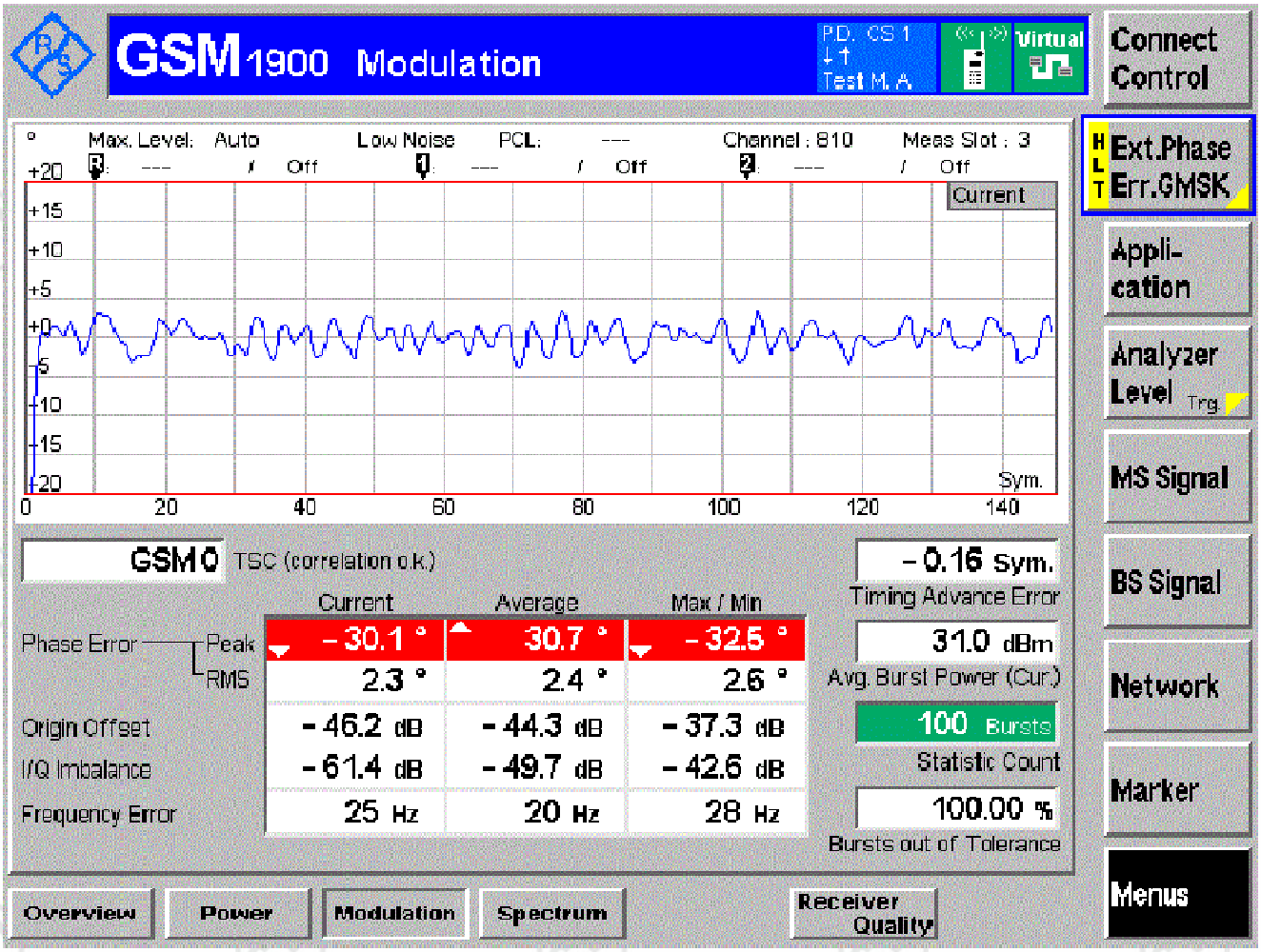

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-37.3 °
36.7 °
-38.3 °
2.8 °
2.8 °
2.9 °
Origin Offset
-40.5 dB
-45.4 dB
-38.9 dB
I/Q Imbalance
-48.9 dB
-49.7 dB
-41.5 dB
Frequency Error
14 Hz
21 Hz
28 Hz
-0.22 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

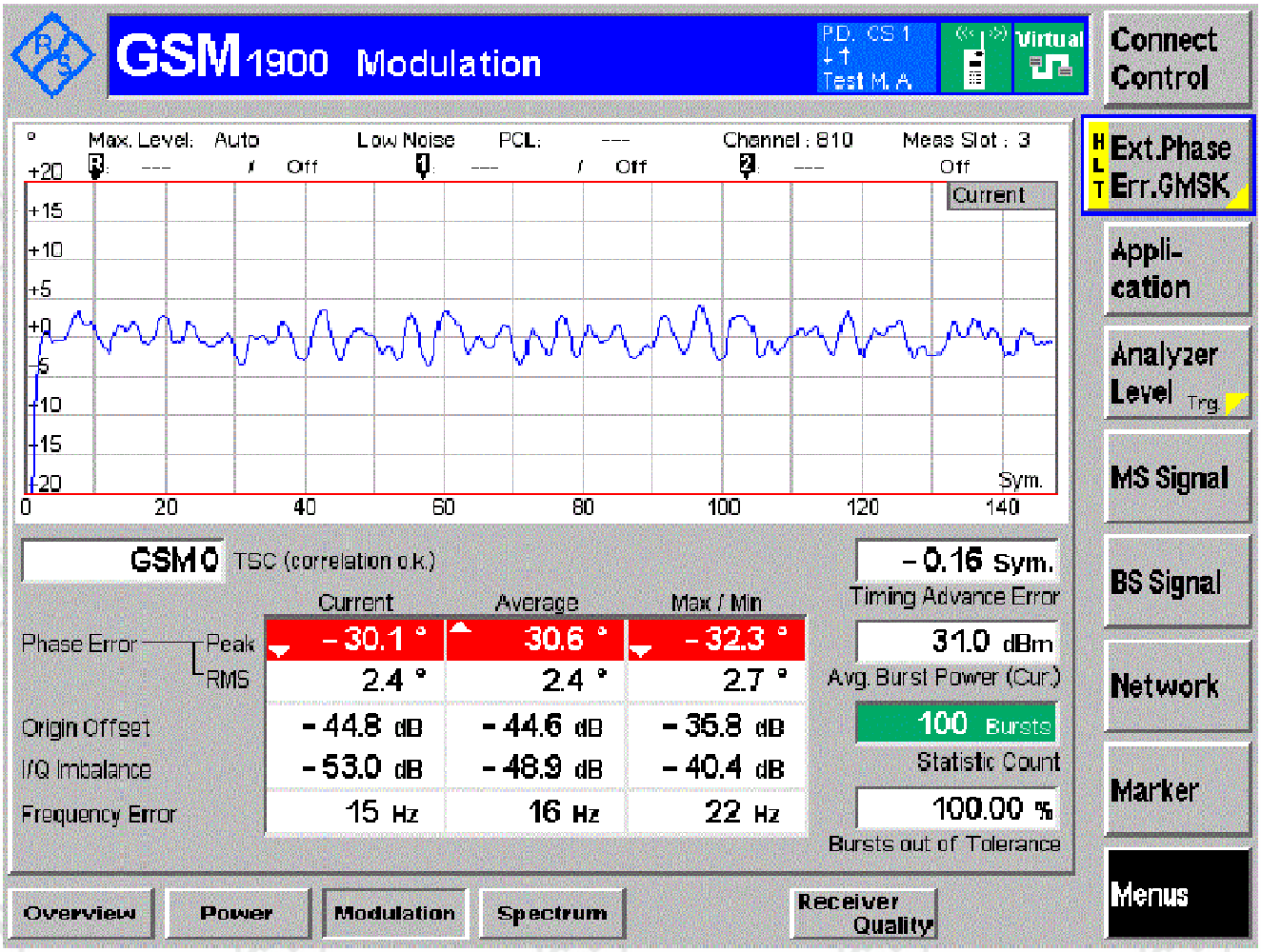

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
- 0.21 Sym.
Timing Advance Error
30.4 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Current
Average
Max / Min
Phase Error
Peak
RMS
- 35.9 °
36.8 °
- 38.5 °
2.7 °
2.8 °
2.9 °
Origin Offset
- 40.4 dB
- 45.1 dB
- 35.7 dB
I/Q Imbalance
- 50.9 dB
- 49.4 dB
- 40.5 dB
Frequency Error
20 Hz
16 Hz
21 Hz
Overview
Power
Modulation
Spectrum
Receiver Quality

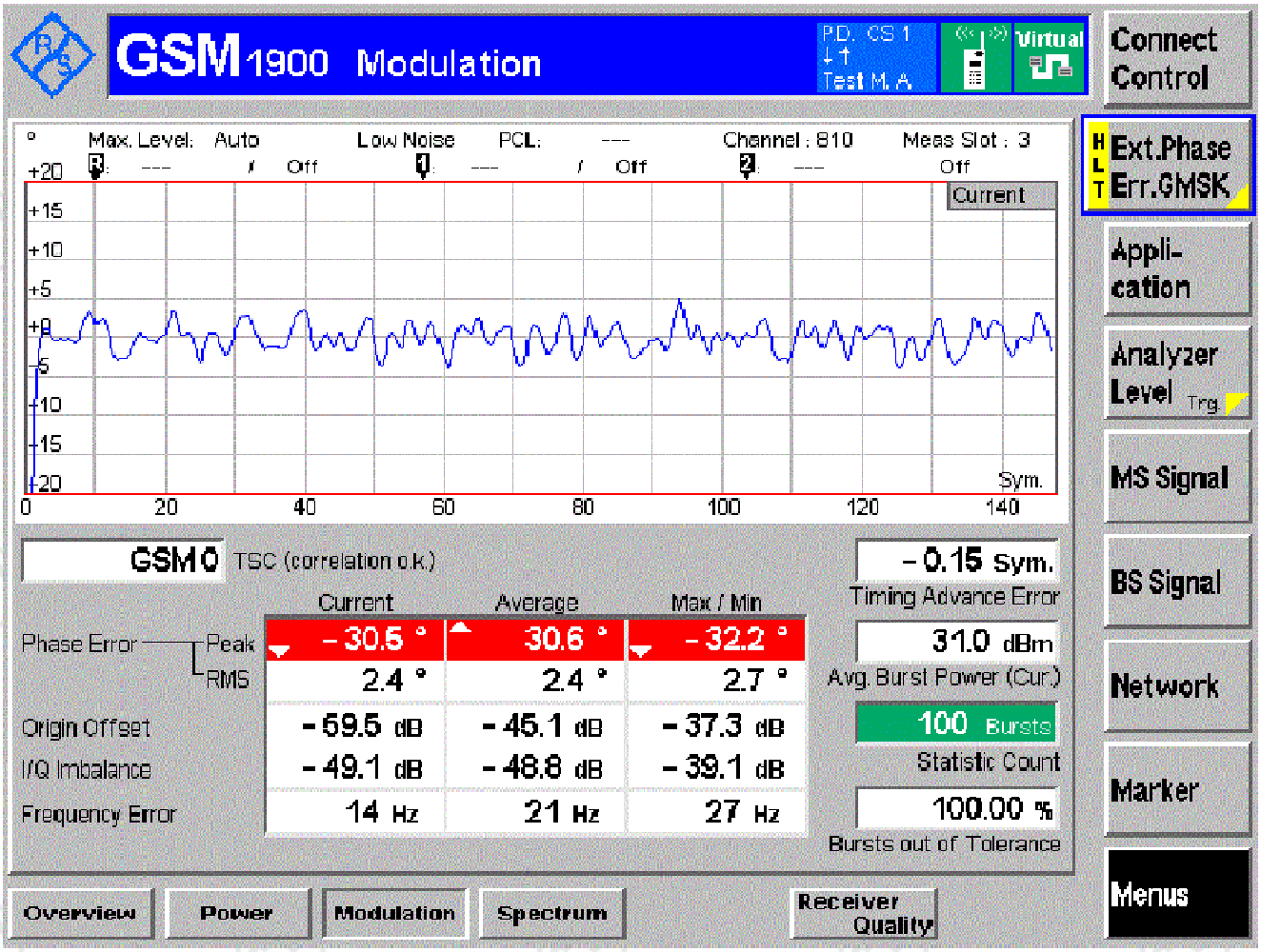

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 661
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
- 0.21 Sym.
Timing Advance Error
30.3 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Current
Average
Max / Min
Phase Error
Peak
RMS
- 37.1 °
36.8 °
- 38.5 °
2.8 °
2.8 °
3.0 °
Origin Offset
- 42.5 dB
- 44.8 dB
- 36.7 dB
I/Q Imbalance
- 46.8 dB
- 48.7 dB
- 40.3 dB
Frequency Error
12 Hz
12 Hz
18 Hz
Overview
Power
Modulation
Spectrum
Receiver Quality

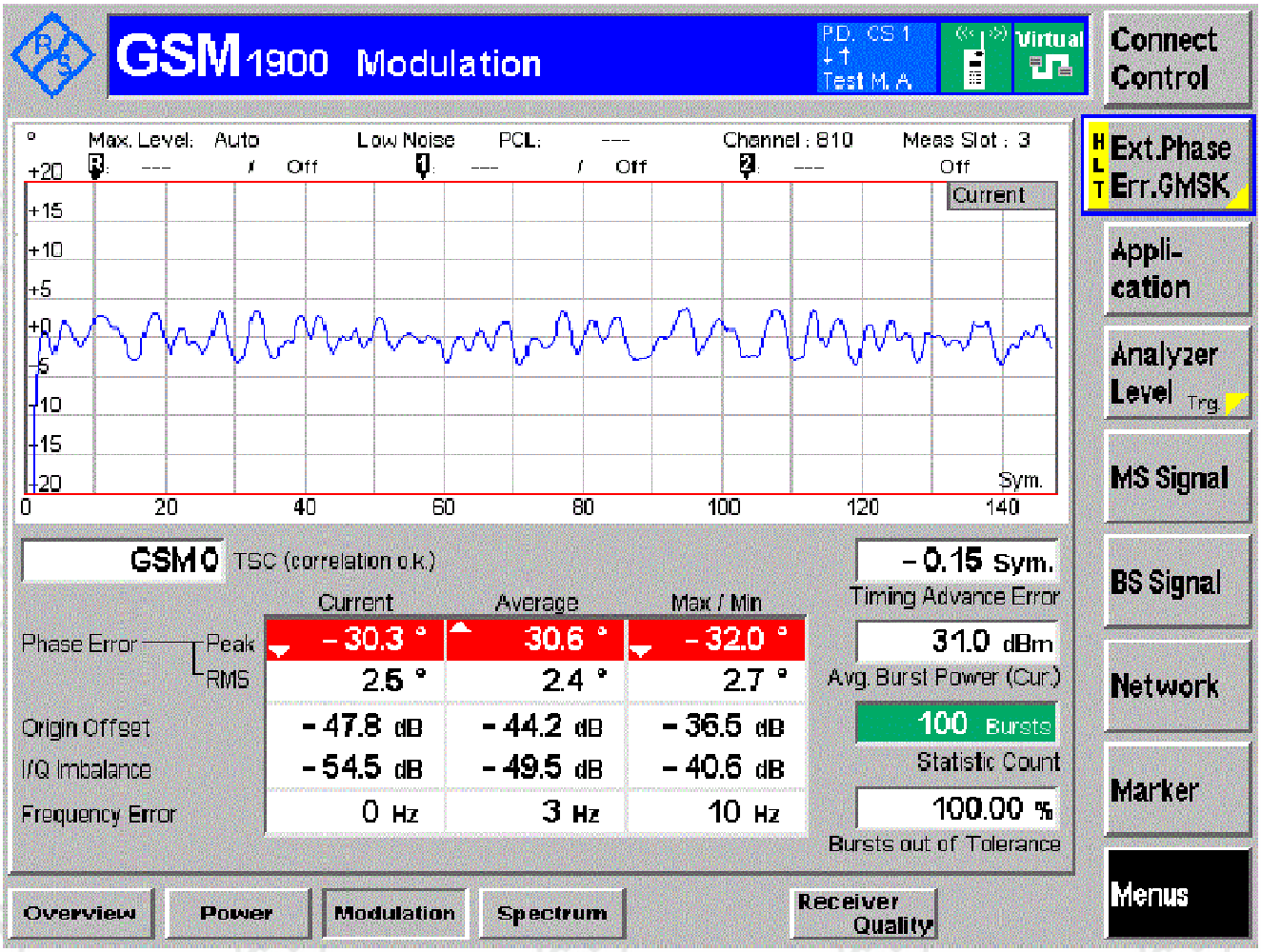
HCH

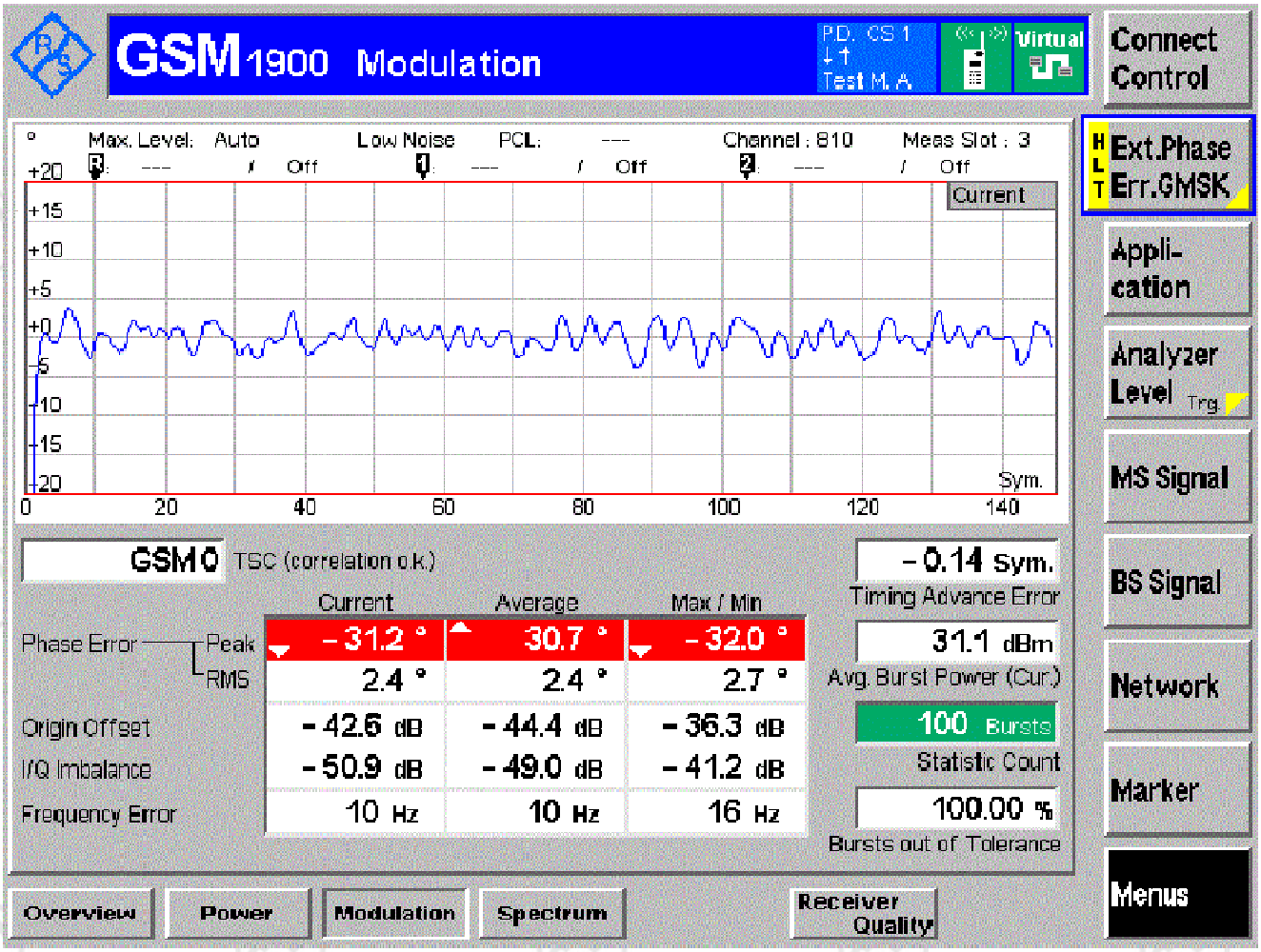

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL: ---
Channel : 810
Meas Slot : 3
Current
Sym.
GSM0 TSC (correlation o.k.)
-0.17 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.9 °
30.4 °
-32.0 °
2.4 °
2.4 °
2.6 °
Origin Offset
-52.1 dB
-45.3 dB
-37.1 dB
I/Q Imbalance
-53.0 dB
-49.6 dB
-39.3 dB
Frequency Error
17 Hz
14 Hz
25 Hz
Overview
Power
Modulation
Spectrum
Receiver Quality

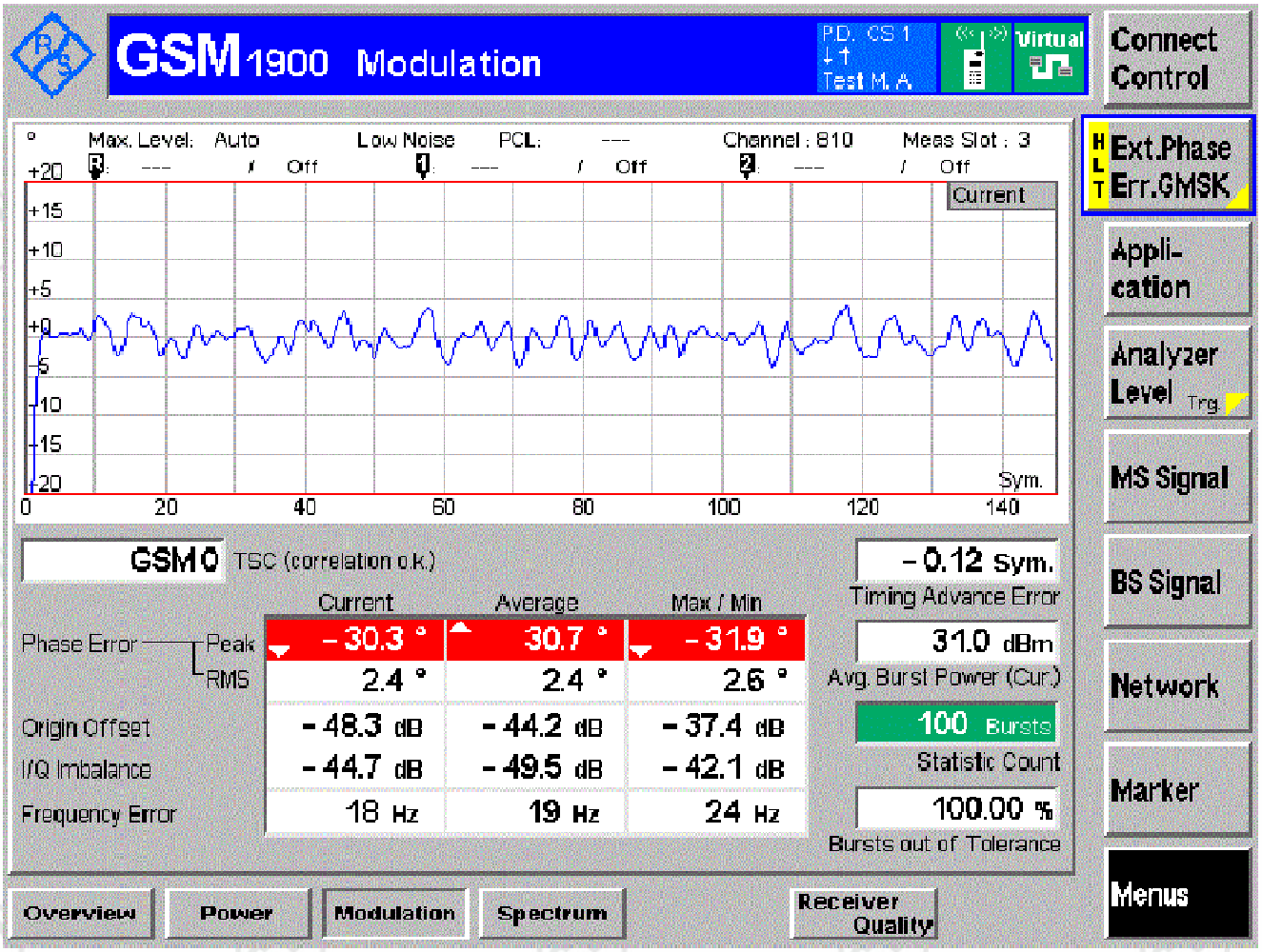

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Off
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.1 °
30.7 °
-32.5 °
2.3 °
2.4 °
2.6 °
Origin Offset
-46.2 dB
-44.3 dB
-37.3 dB
I/Q Imbalance
-61.4 dB
-49.7 dB
-42.6 dB
Frequency Error
25 Hz
20 Hz
28 Hz
-0.16 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

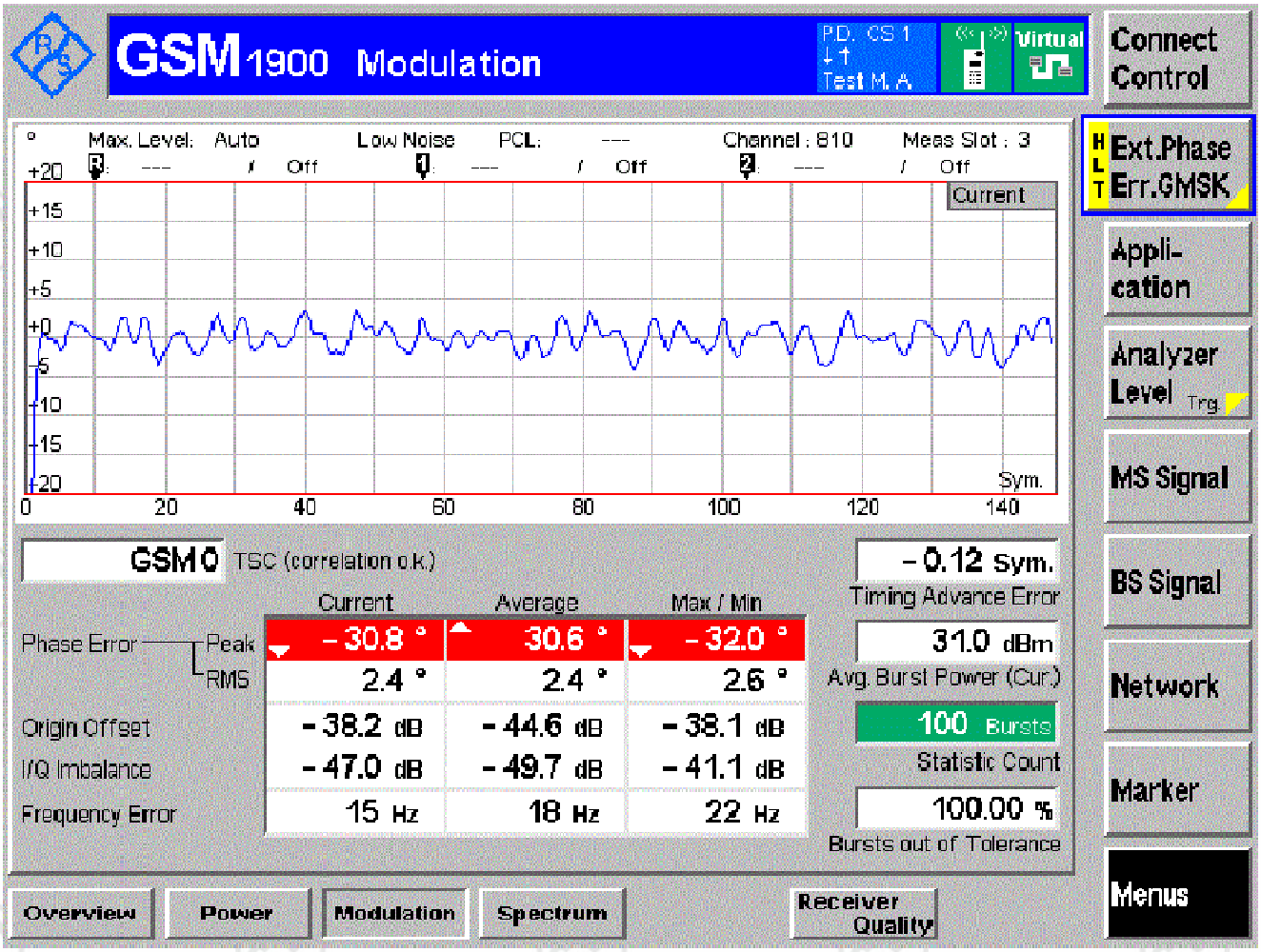

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.1 °
30.6 °
-32.3 °
2.4 °
2.4 °
2.7 °
Origin Offset
-44.8 dB
-44.6 dB
-35.8 dB
I/Q Imbalance
-53.0 dB
-48.9 dB
-40.4 dB
Frequency Error
15 Hz
16 Hz
22 Hz
-0.16 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

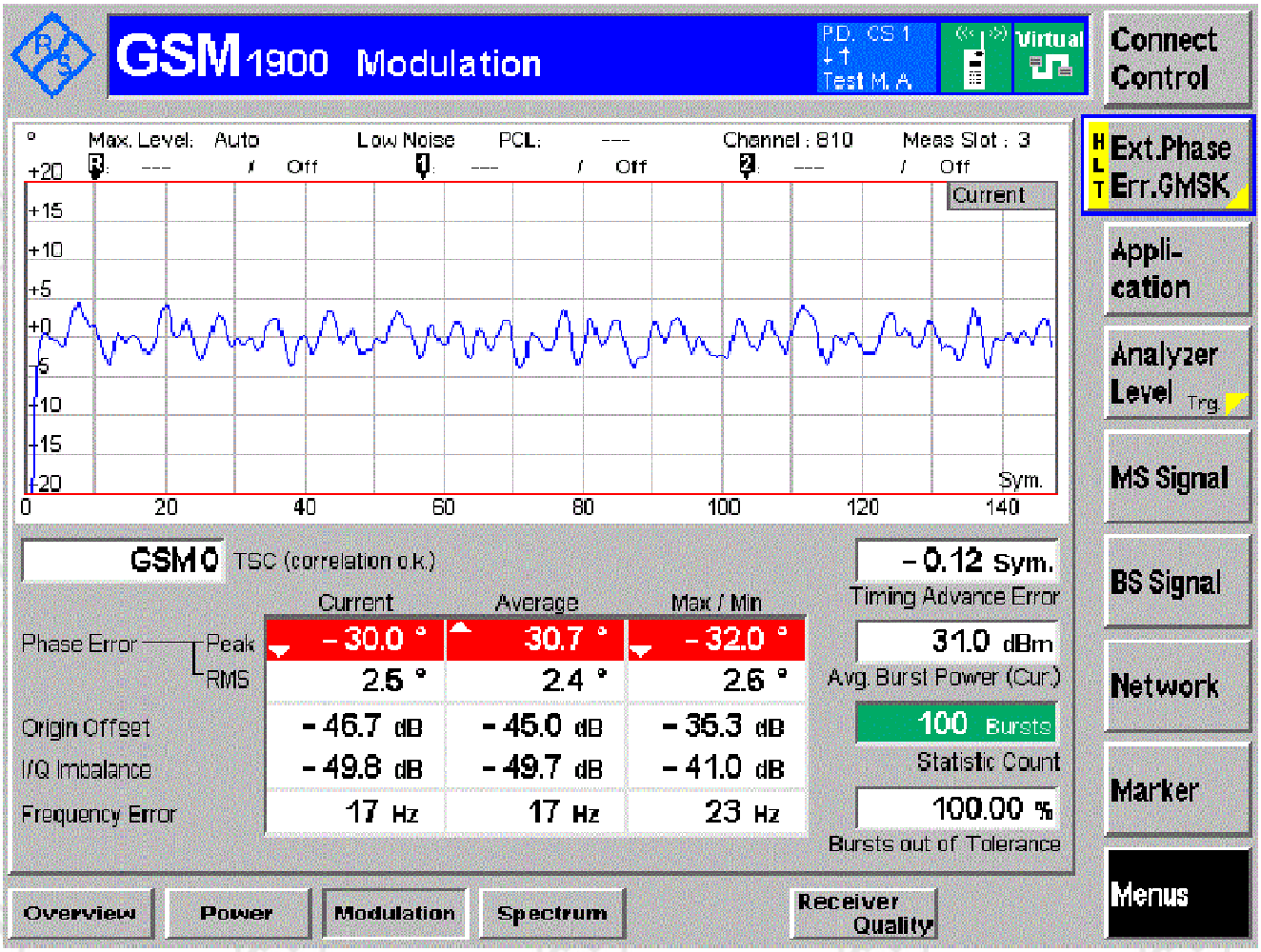

GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.5 °
30.6 °
-32.2 °
2.4 °
2.4 °
2.7 °
Origin Offset
-59.5 dB
-45.1 dB
-37.3 dB
I/Q Imbalance
-49.1 dB
-48.8 dB
-39.1 dB
Frequency Error
14 Hz
21 Hz
27 Hz
-0.15 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Current
Sym.
GSM0
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.3 °
30.6 °
-32.0 °
2.5 °
2.4 °
2.7 °
Origin Offset
-47.8 dB
-44.2 dB
-36.6 dB
I/Q Imbalance
-54.5 dB
-49.5 dB
-40.6 dB
Frequency Error
0 Hz
3 Hz
10 Hz
-0.15 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-31.2 °
30.7 °
-32.0 °
2.4 °
2.4 °
2.7 °
Origin Offset
-42.6 dB
-44.4 dB
-36.3 dB
I/Q Imbalance
-50.9 dB
-49.0 dB
-41.2 dB
Frequency Error
10 Hz
10 Hz
16 Hz
-0.14 Sym.
Timing Advance Error
31.1 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.3 °
30.7 °
-31.9 °
2.4 °
2.4 °
2.6 °
Origin Offset
-48.3 dB
-44.2 dB
-37.4 dB
I/Q Imbalance
-44.7 dB
-49.5 dB
-42.1 dB
Frequency Error
18 Hz
19 Hz
24 Hz
-0.12 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Off
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.8 °
30.6 °
-32.0 °
2.4 °
2.4 °
2.6 °
Origin Offset
-38.2 dB
-44.6 dB
-38.1 dB
I/Q Imbalance
-47.0 dB
-49.7 dB
-41.1 dB
Frequency Error
15 Hz
18 Hz
22 Hz
-0.12 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality


GSM1900 Modulation
P.D. CS 1
Test M. A.
Virtual
Connect Control
Ext.Phase Err.GMSK
Appli-cation
Analyzer Level
Trg
MS Signal
BS Signal
Network
Marker
Menus
Max. Level: Auto
Low Noise
PCL:
Channel : 810
Meas Slot : 3
Off
Current
Sym.
GSM
TSC (correlation o.k.)
Current
Average
Max / Min
Phase Error
Peak
RMS
-30.0 °
30.7 °
-32.0 °
2.5 °
2.4 °
2.6 °
Origin Offset
-46.7 dB
-45.0 dB
-35.3 dB
I/Q Imbalance
-49.8 dB
-49.7 dB
-41.0 dB
Frequency Error
17 Hz
17 Hz
23 Hz
-0.12 Sym.
Timing Advance Error
31.0 dBm
Avg. Burst Power (Cur.)
100 Bursts
Statistic Count
100.00 %
Bursts out of Tolerance
Overview
Power
Modulation
Spectrum
Receiver Quality

Appendix G) Effective Radiated Power of Transmitter (ERP/EIRP)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	peak	120kHz	300kHz	Peak
Above 1GHz	Peak	1MHz	3MHz	Peak

Measurement Procedure:

Below 1GHz test procedure as below:

1). The EUT was powered ON and placed on a 0.8m high table in the chamber., mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer. The antenna of the transmitter was extended to its maximum length.
2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
6). The output power into the substitution antenna was then measured.
7). Steps 5) and 6) were repeated with both antennas polarization.
8). Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd)

where:

Pg is the generator output power into the substitution antenna.

Above 1GHz test procedure as below:

1). Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber ; up to 18GHz a measurement distance of 3 meters is used, Above 18GHz the distance is 1 meter.
2). Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi)
EIRP=ERP+2.15dB

where:

Pg is the generator output power into the substitution antenna.

3).Test the EUT in the lowest channel, the middle channel the Highest channel
The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Limit:

Mode	GSM 850	GSM 1900
Frequency	824 – 849MHz	1850 – 1910MHz
Limit	38.45dBm（7W）	33.01dBm（2W）

Measurement Data

GPRS 850						
Channel/fc (MHz)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
128/824.2	61	18.37	38.45	-20.08	Pass	H
	360	23.76	38.45	-14.69	Pass	V
190/836.6	312	17.22	38.45	-21.23	Pass	H
	38	23.91	38.45	-14.54	Pass	V
251/848.8	305	17.22	38.45	-21.23	Pass	H
	20	23.12	38.45	-15.33	Pass	V

GPRS 1900						
Channel/fc (MHz)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
512/1850.2	307	16.06	33.01	-16.95	Pass	H
	204	16.47	33.01	-16.54	Pass	V
661/1880.0	297	15.85	33.01	-17.16	Pass	H
	344	16.62	33.01	-16.39	Pass	V
810/1909.8	308	16.06	33.01	-16.95	Pass	H
	334	16.91	33.01	-16.1	Pass	V

Appendix H) Field strength of spurious radiation

<table>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>0.009MHz-30MHz</td><td>Peak</td><td>10kHz</td><td>30kHz</td><td>Peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Peak</td><td>120kHz</td><td>300kHz</td><td>Peak</td></tr>
<tr><td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Measurement Procedure:</td><td>
Below 1GHz test procedure as below:
1). The EUT was powered ON and placed on a 0.8m high table in the chamber.,mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer. The antenna of the transmitter was extended to its maximum length.
2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made(the radiation measurements are performed in X, Y, Z axis positioning be lower 30 MHz.)
3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
6). The output power into the substitution antenna was then measured.
7). Steps 5) and 6) were repeated with both antennas polarized and EUT .
8) Calculate power in dBm by the following formula:
ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd)
where:
Pg is the generator output power into the substitution antenna.
Above 1GHz test procedure as below:
1)Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber ; up to 18GHz a measurement distance of 3 meters is used, Above 18GHz the distance is 1 meter.
2) Calculate power in dBm by the following formula:
EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi)
EIRP=ERP+2.15dB
where:
Pg is the generator output power into the substitution antenna.
3.Test the EUT in the lowest channel, the middle channel the Highest channel
The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case.
Repeat above procedures until all frequencies measured was complete.
</td></tr>
<tr><td>Limit:</td><td>Attenuated at least 43+10log(P)</td></tr>
</table>

Test data:

Mode:	GPRS						
Band:	850		Channel:		190		
Remark:							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	39.8960	150	209	-71.72	-13.00	58.72	Pass	Horizontal
2	160.0060	150	3	-70.42	-13.00	57.42	Pass	Horizontal
3	519.9480	150	127	-75.72	-13.00	62.72	Pass	Horizontal
4	1673.8674	150	74	-34.98	-13.00	21.98	Pass	Horizontal
5	2511.1511	150	47	-43.75	-13.00	30.75	Pass	Horizontal
6	3348.0174	150	164	-47.90	-13.00	34.90	Pass	Horizontal
7	37.5675	150	39	-65.73	-13.00	52.73	Pass	Vertical
8	184.2609	150	230	-68.90	-13.00	55.90	Pass	Vertical
9	625.1170	150	194	-68.86	-13.00	55.86	Pass	Vertical
10	1674.0674	150	22	-45.09	-13.00	32.09	Pass	Vertical
11	2511.1511	150	332	-49.46	-13.00	36.46	Pass	Vertical
12	3348.0174	150	184	-49.39	-13.00	36.39	Pass	Vertical

Mode:	GPRS						
Band:	1900		Channel:		661		
Remark:							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	55.4191	150	242	-71.44	-13.00	58.44	Pass	Horizontal
2	113.6307	150	168	-69.18	-13.00	56.18	Pass	Horizontal
3	359.4779	150	104	-72.10	-13.00	59.10	Pass	Horizontal
4	1281.0281	150	21	-48.78	-13.00	35.78	Pass	Horizontal
5	5640.2640	150	308	-36.18	-13.00	23.18	Pass	Horizontal
6	11279.3279	150	98	-36.97	-13.00	23.97	Pass	Horizontal
7	39.8960	150	24	-66.14	-13.00	53.14	Pass	Vertical
8	209.6799	150	24	-67.83	-13.00	54.83	Pass	Vertical
9	741.3463	150	3	-62.23	-13.00	49.23	Pass	Vertical
10	1312.2312	150	77	-48.86	-13.00	35.86	Pass	Vertical
11	5640.2640	150	114	-40.40	-13.00	27.40	Pass	Vertical
12	11279.3279	150	114	-33.50	-13.00	20.50	Pass	Vertical

Note:
1) Scan from 9kHz to 25GHz, the disturbance above 15GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.