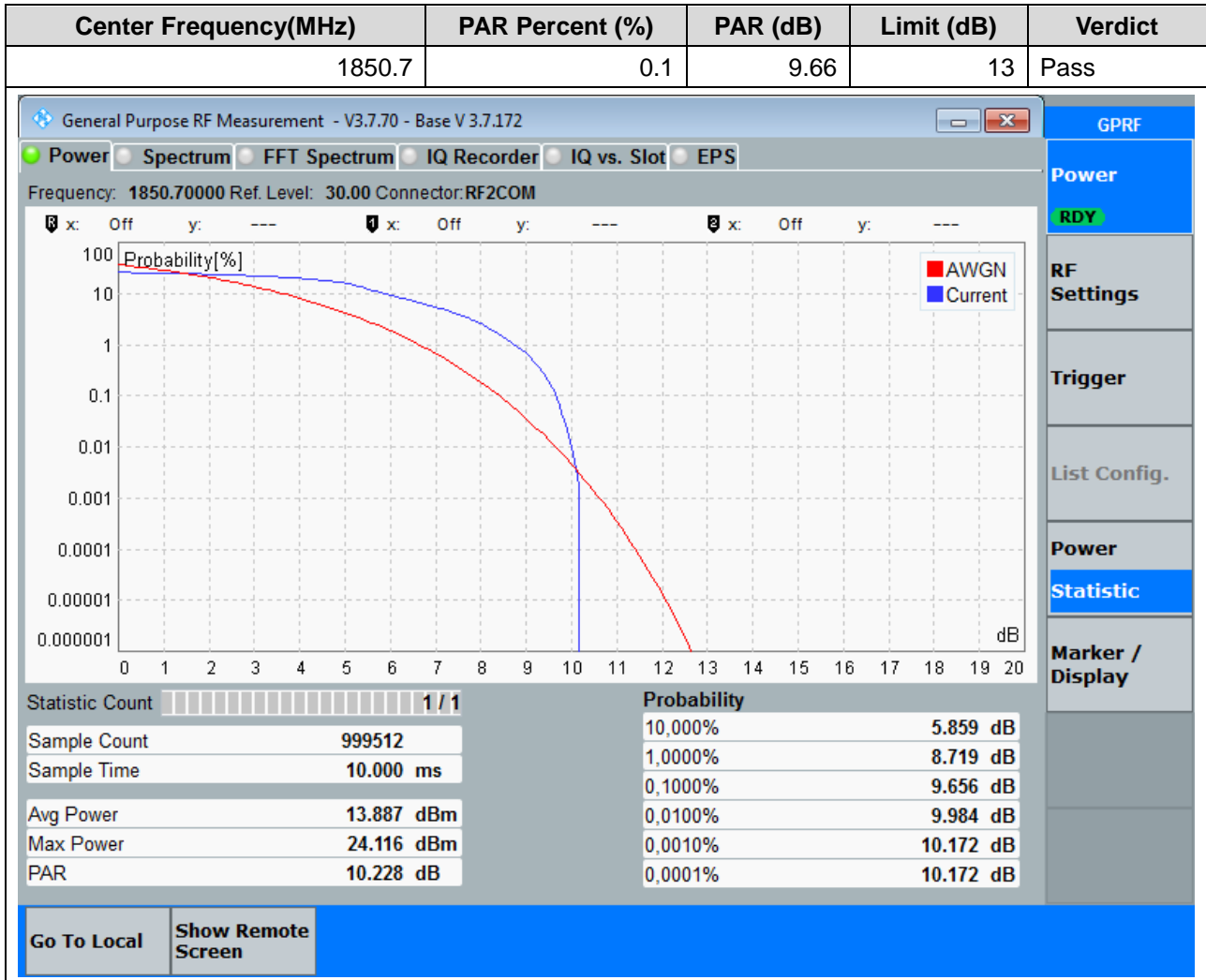


Annex A.2 Peak to Average Ratio

1. LTE-M1_Band2_QPSK_20MHz_6@0_Index low_Low

1.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



1. LTE-M1_Band2_16QAM_20MHz_5@0_Index low_Low

1.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1850.7	0.1	10.22	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 1850.70000 Ref. Level: 30.00 Connector: RF2COM

GPRF

Statistic Count	
Sample Count	999312
Sample Time	9.998 ms
Avg Power	13.957 dBm
Max Power	24.597 dBm
PAR	10.640 dB

Probability	
10,000%	6.188 dB
1,0000%	9.141 dB
0,1000%	10.219 dB
0,0100%	10.547 dB
0,0010%	10.594 dB
0,0001%	10.641 dB

Go To Local
Show Remote Screen

Power

RDY

RF Settings

Trigger

List Config.

Power

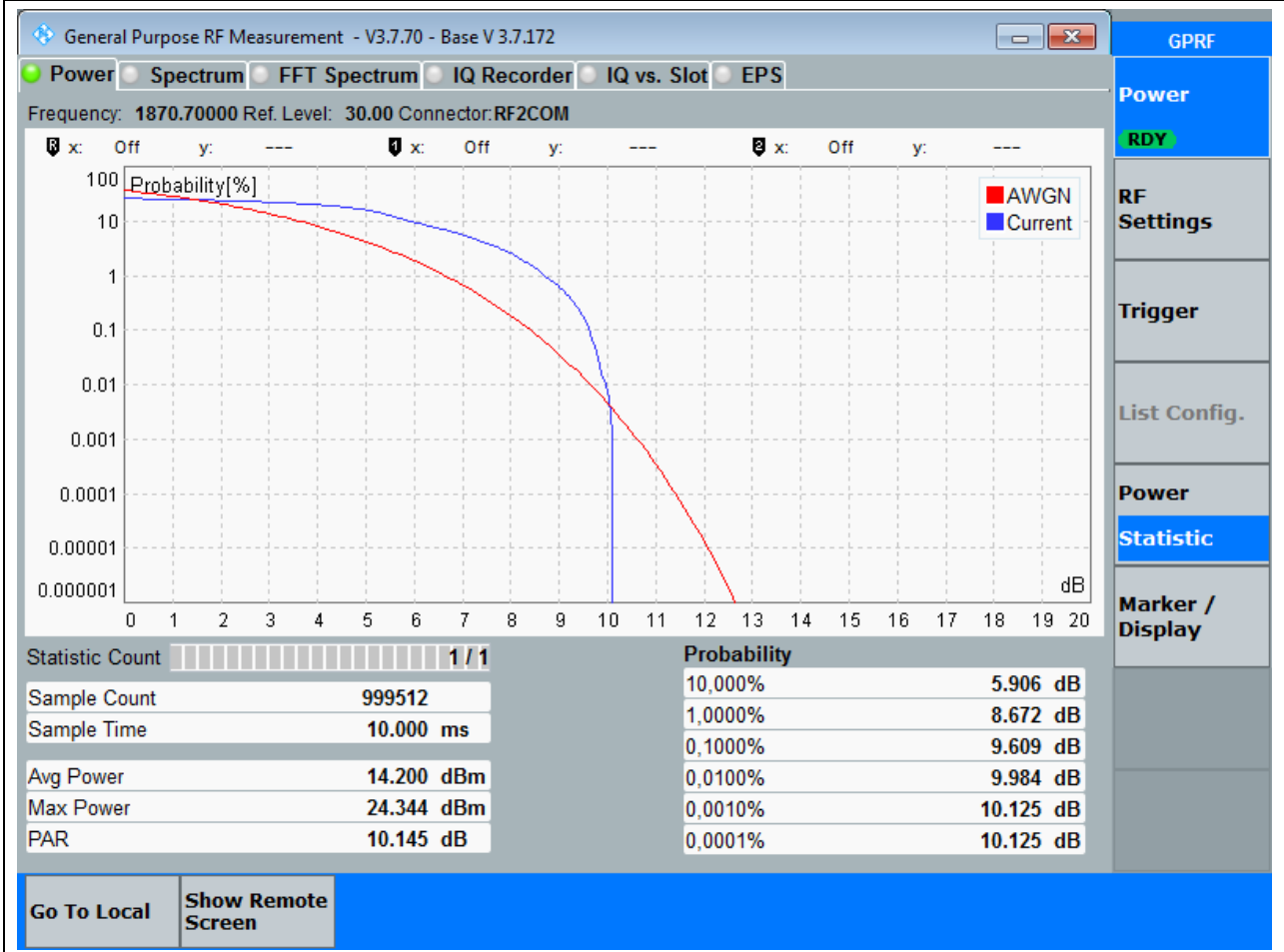
Statistic

Marker / Display

1. LTE-M1_Band2_QPSK_20MHz_6@0_Index low_Mid

1.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1870.7	0.1	9.61	13	Pass



1. LTE-M1_Band2_16QAM_20MHz_5@0_Index low_Mid

1.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1870.7	0.1	9.98	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 1870.70000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Probability[%]

Statistic Count		Probability	
Sample Count	999512	10,000%	6.188 dB
Sample Time	10.000 ms	1,0000%	9.000 dB
Avg Power	14.738 dBm	0,1000%	9.984 dB
Max Power	25.231 dBm	0,0100%	10.266 dB
PAR	10.493 dB	0,0010%	10.453 dB
		0,0001%	10.453 dB

Go To Local
Show Remote Screen

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display

1. LTE-M1_Band2_QPSK_20MHz_6@0_Index low_High

1.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1890.7	0.1	9.7	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 1890.70000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Probability[%]

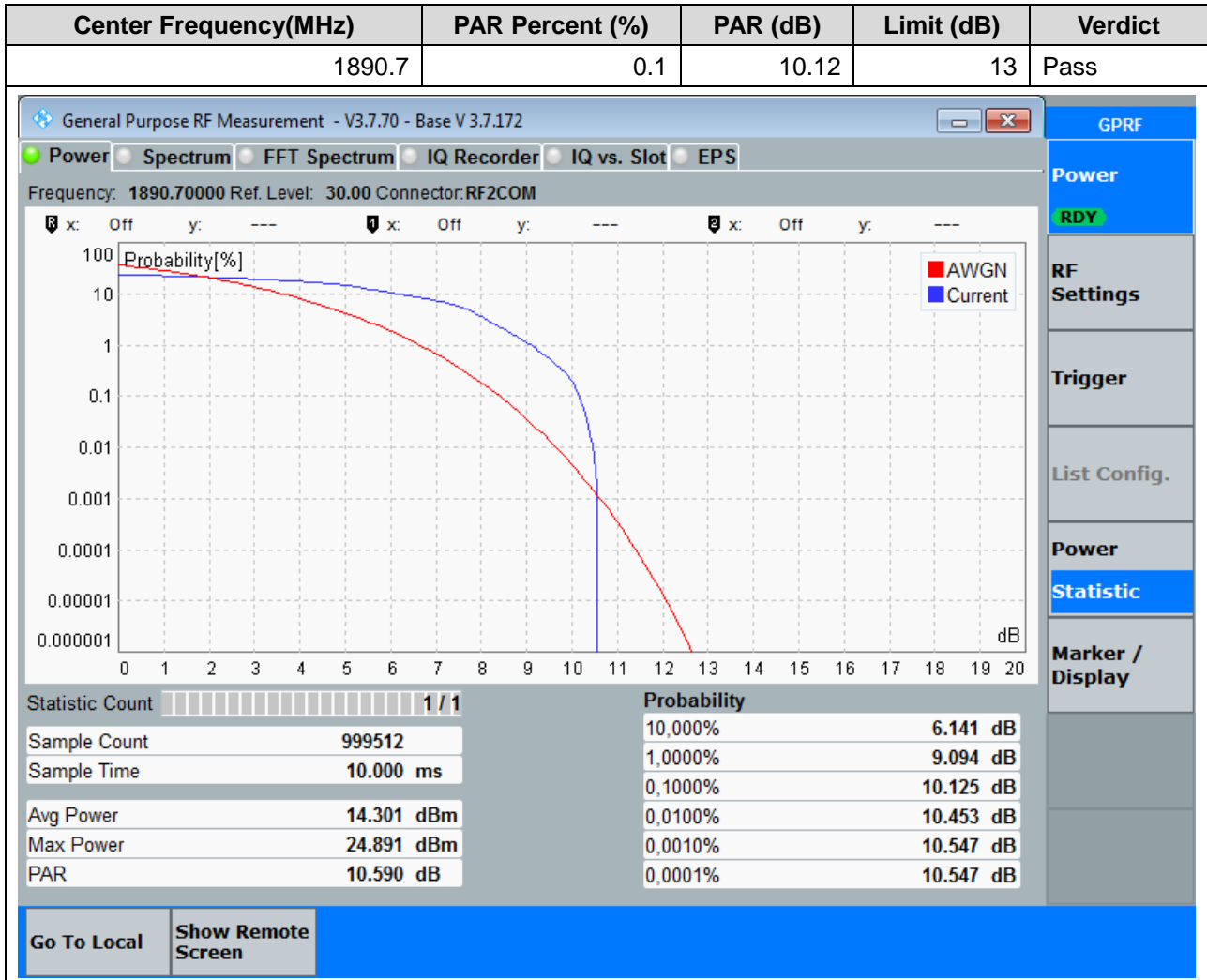
Statistic Count		Probability	
Sample Count	999312	10,000%	5.906 dB
Sample Time	9.998 ms	1,0000%	8.766 dB
Avg Power	14.202 dBm	0,1000%	9.703 dB
Max Power	24.420 dBm	0,0100%	10.031 dB
PAR	10.218 dB	0,0010%	10.172 dB
		0,0001%	10.219 dB

Go To Local
Show Remote Screen

Power
RDY
RF Settings
Trigger
List Config.
Power
Statistic
Marker / Display

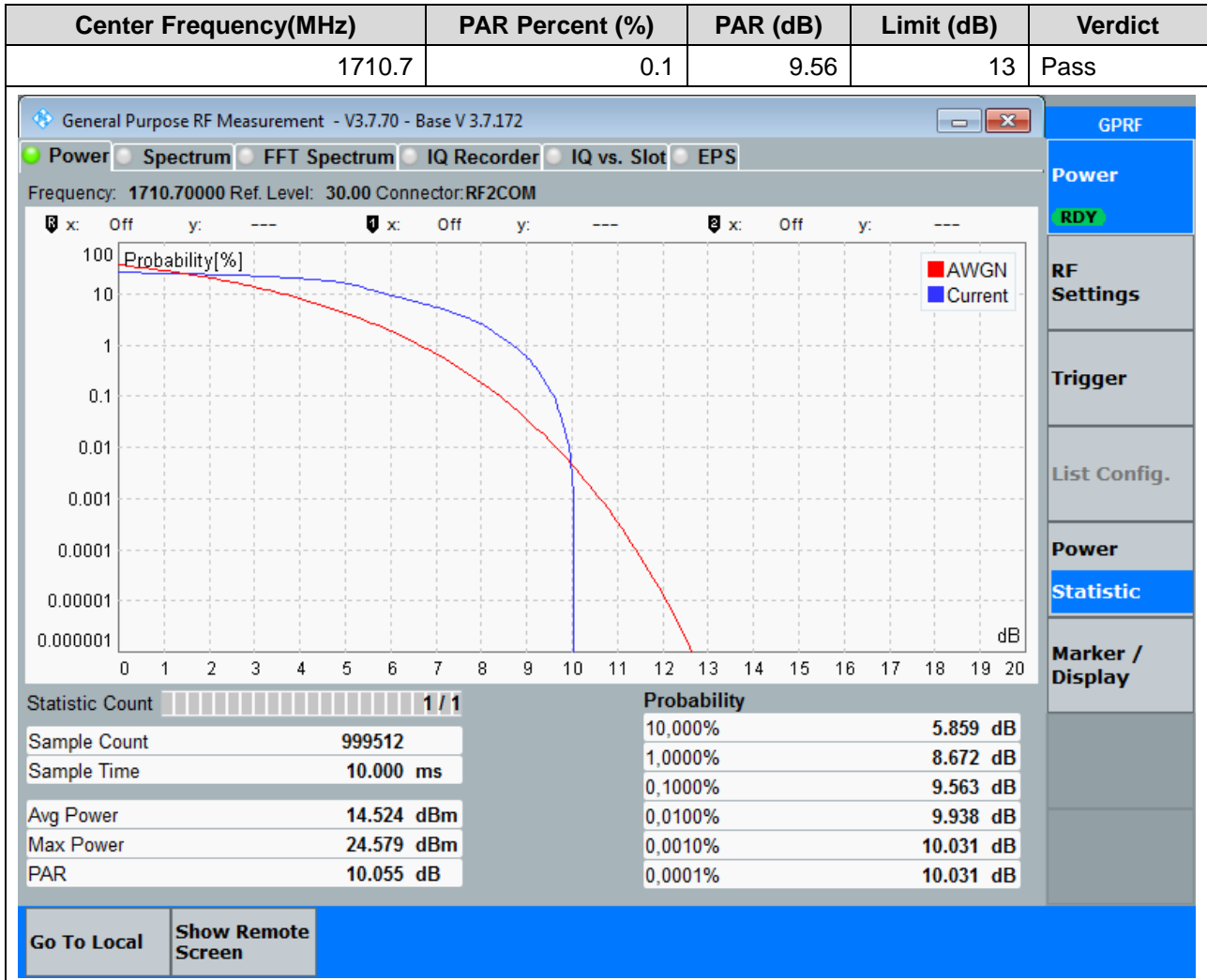
1. LTE-M1_Band2_16QAM_20MHz_5@0_Index low_High

1.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



2. LTE-M1_Band4_QPSK_20MHz_6@0_Index low_Low

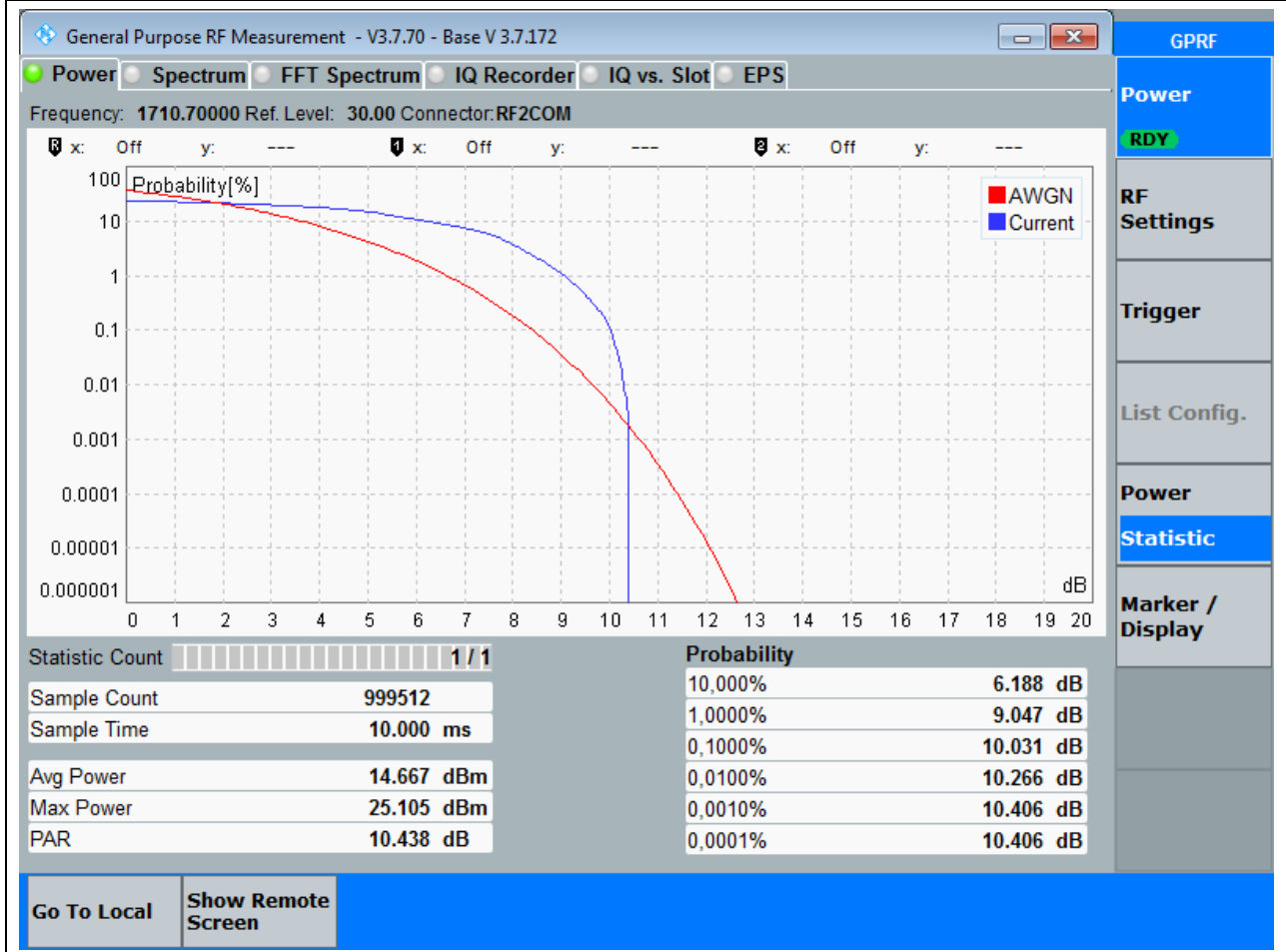
2.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



2. LTE-M1_Band4_16QAM_20MHz_5@0_Index low_Low

2.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

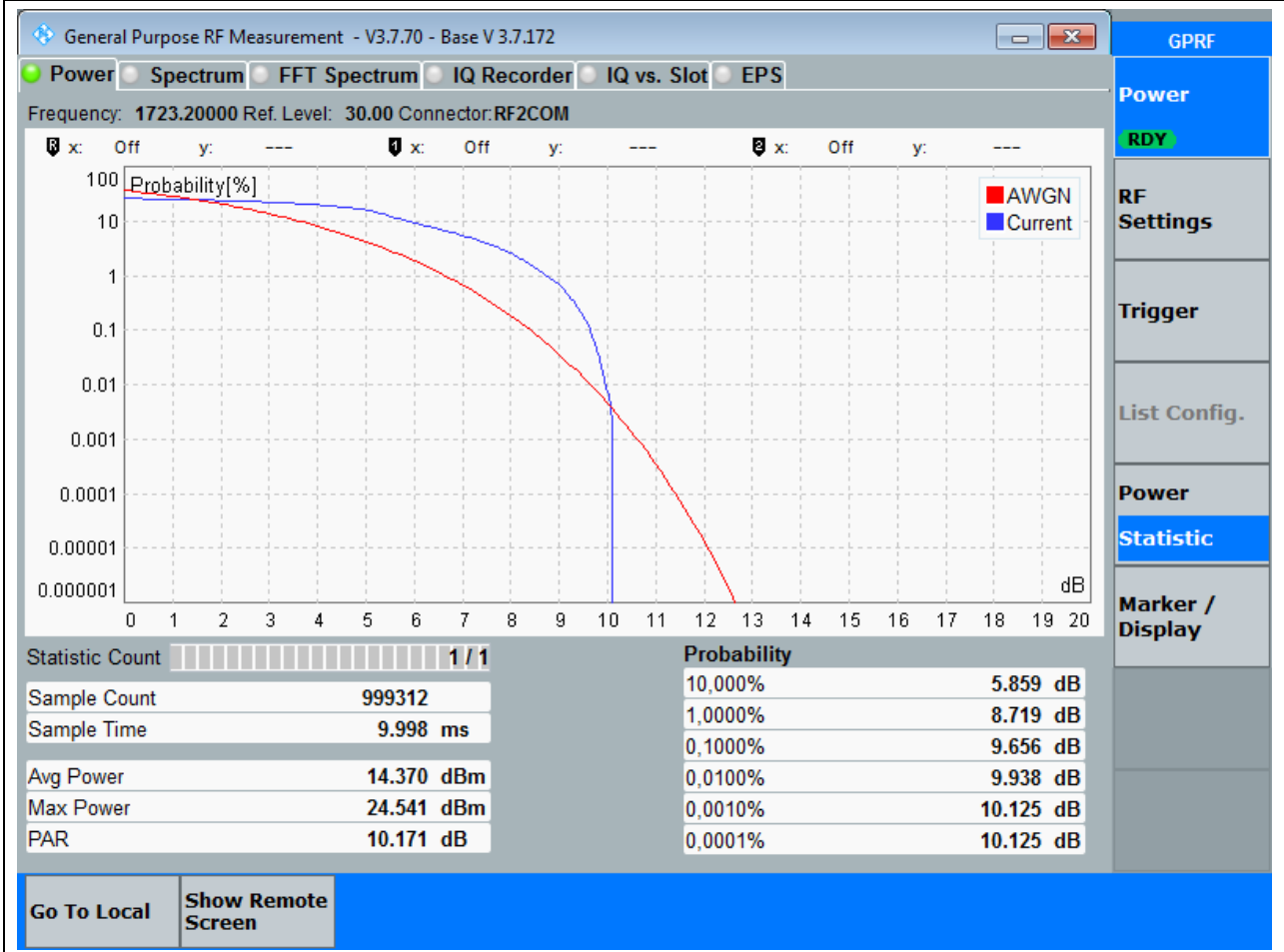
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1710.7	0.1	10.03	13	Pass



2. LTE-M1_Band4_QPSK_20MHz_6@0_Index low_Mid

2.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

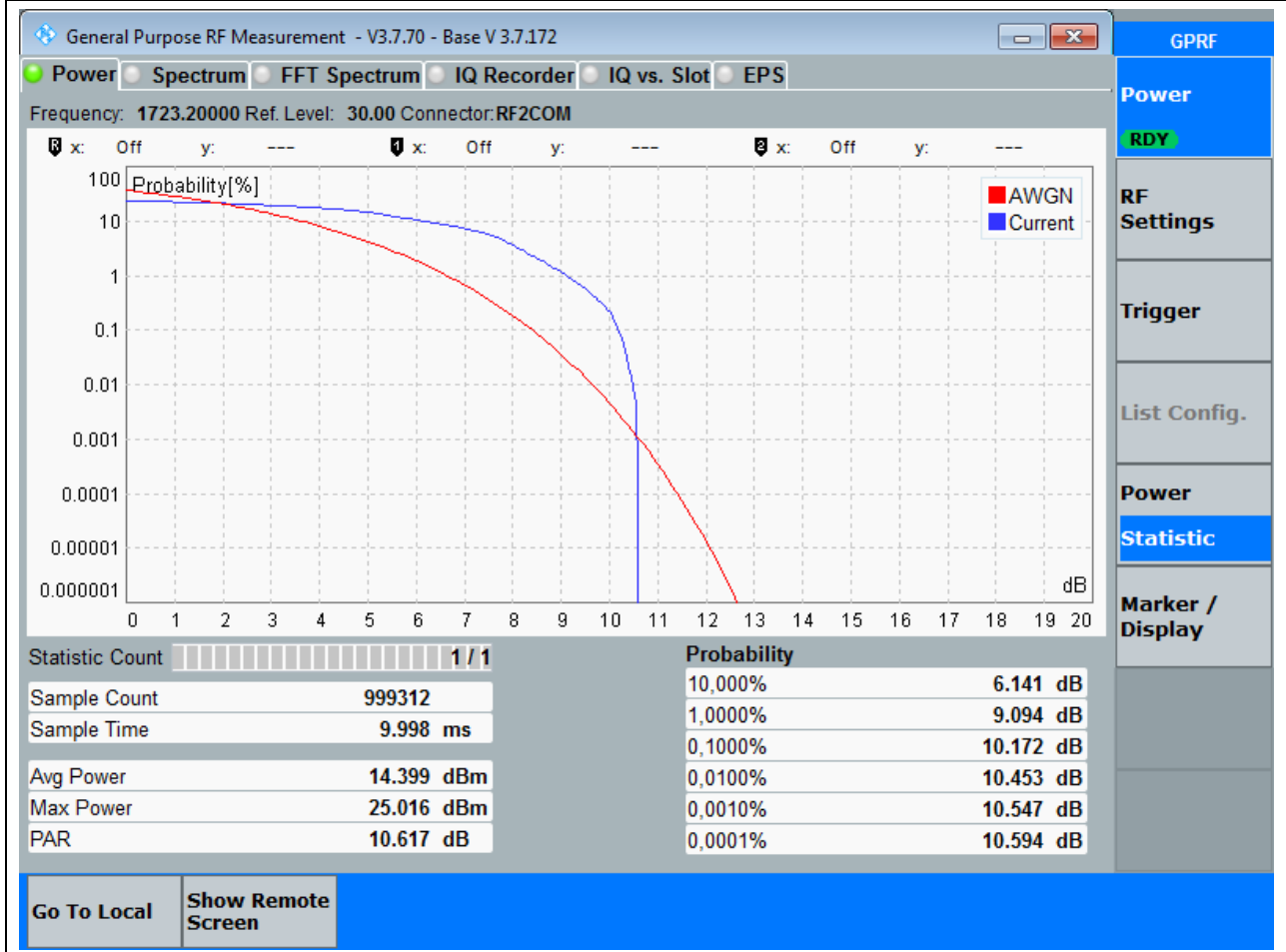
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1723.2	0.1	9.66	13	Pass



2. LTE-M1_Band4_16QAM_20MHz_5@0_Index low_Mid

2.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

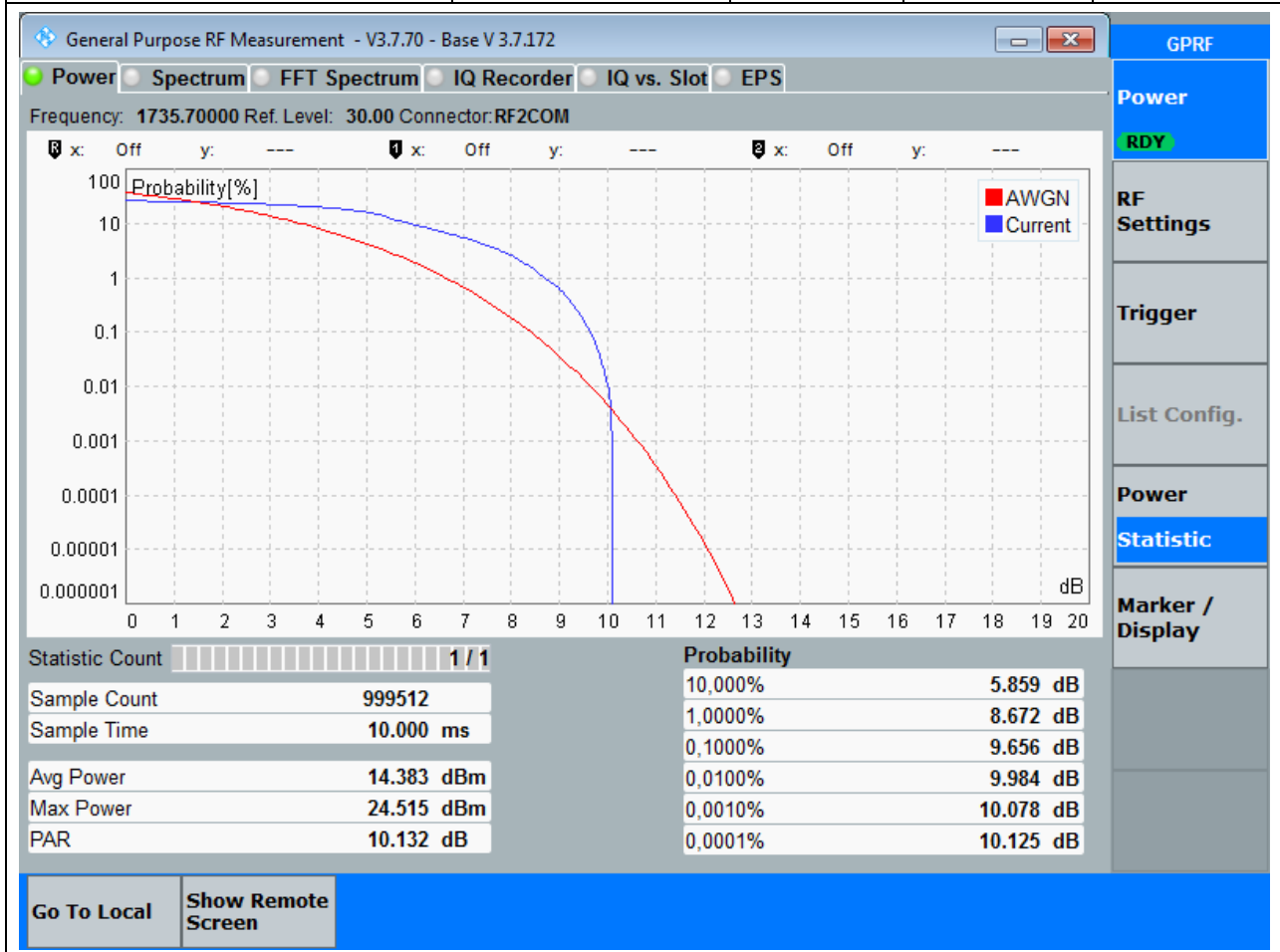
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1723.2	0.1	10.17	13	Pass



2. LTE-M1_Band4_QPSK_20MHz_6@0_Index low_High

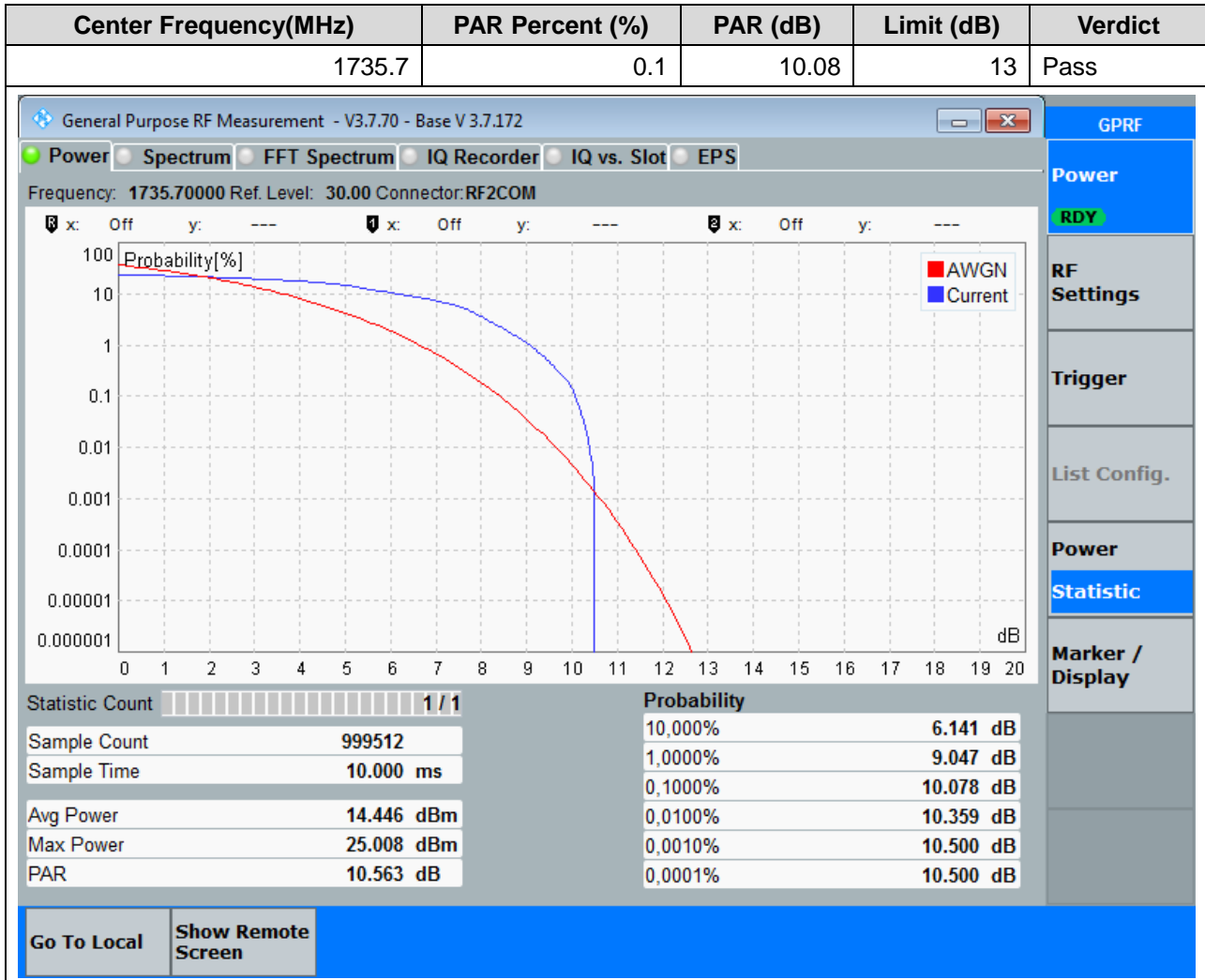
2.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1735.7	0.1	9.66	13	Pass



2. LTE-M1_Band4_16QAM_20MHz_5@0_Index low_High

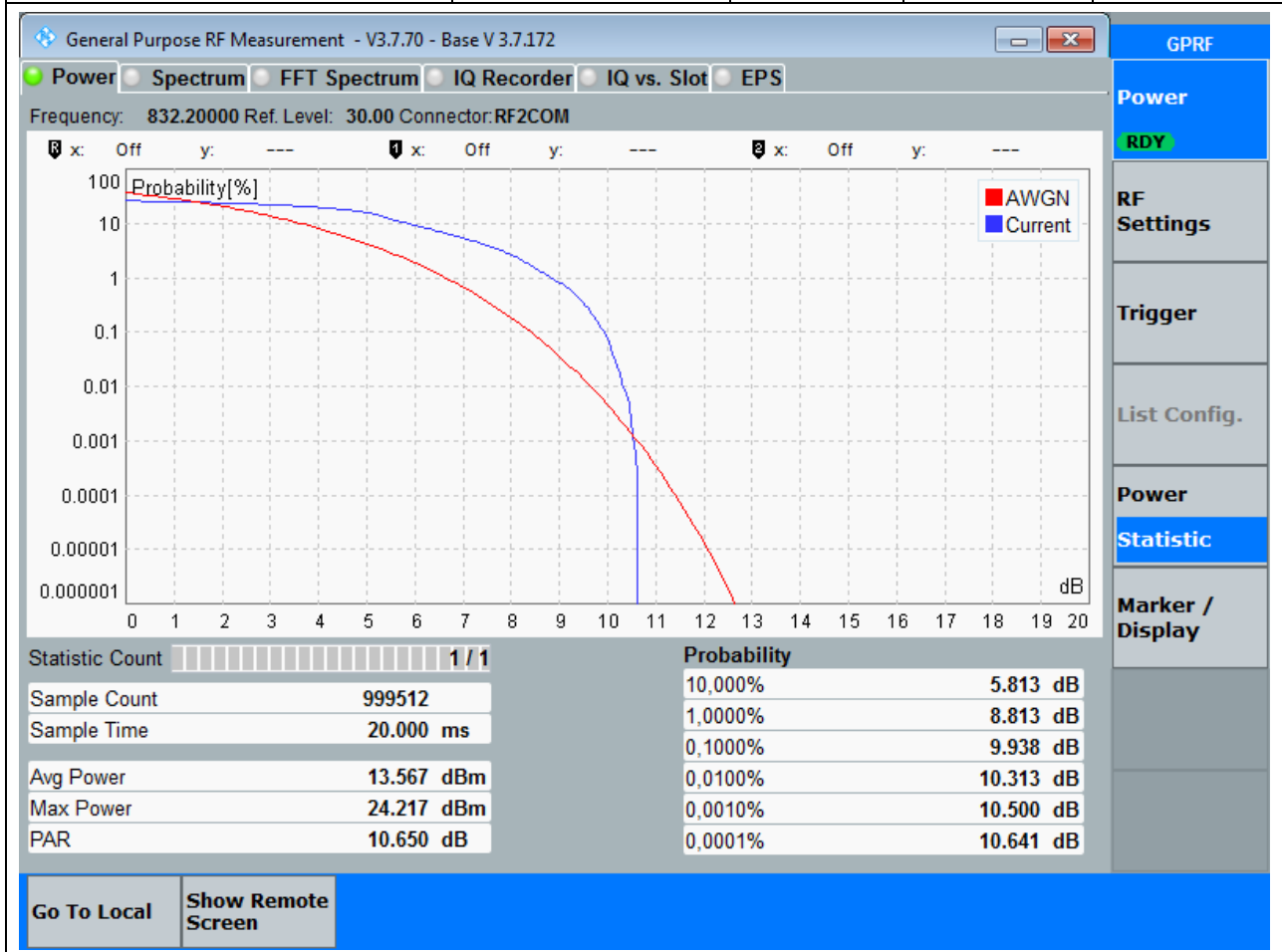
2.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



3. LTE-M1_Band5_QPSK_10MHz_6@0_Index low_Low

3.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
832.2	0.1	9.94	13	Pass



3. LTE-M1_Band5_16QAM_10MHz_5@0_Index low_Low

3.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
824.7	0.1	10.36	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 824.70000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Probability[%]

Statistic Count		Probability	
Sample Count	999512	10,000%	6.141 dB
Sample Time	20.000 ms	1,0000%	9.188 dB
Avg Power	14.389 dBm	0,1000%	10.359 dB
Max Power	25.262 dBm	0,0100%	10.734 dB
PAR	10.873 dB	0,0010%	10.828 dB
		0,0001%	10.875 dB

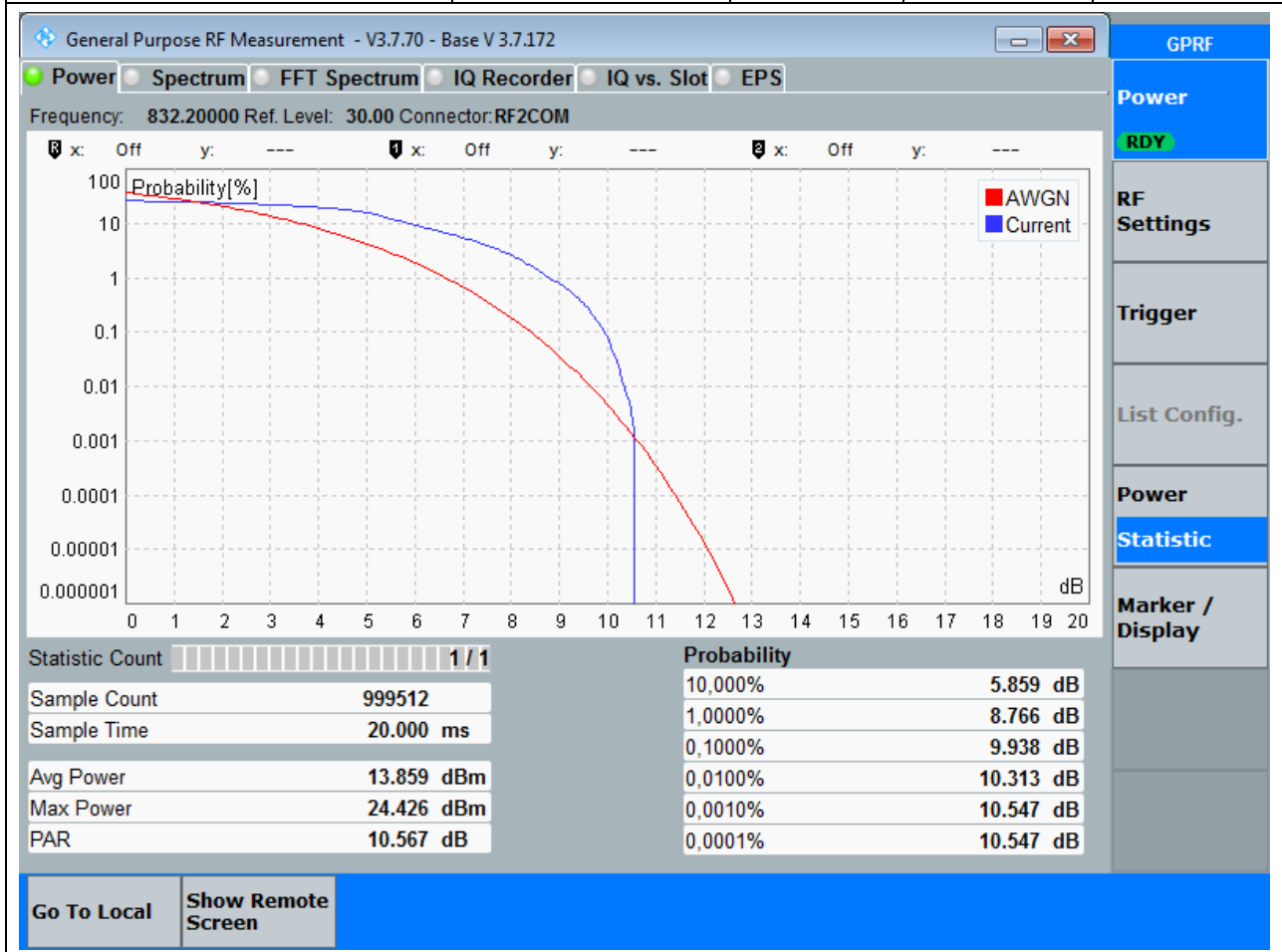
Go To Local
Show Remote Screen

Power
RDY
RF Settings
Trigger
List Config.
Power
Statistic
Marker / Display

3. LTE-M1_Band5_QPSK_10MHz_6@0_Index low_Mid

3.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

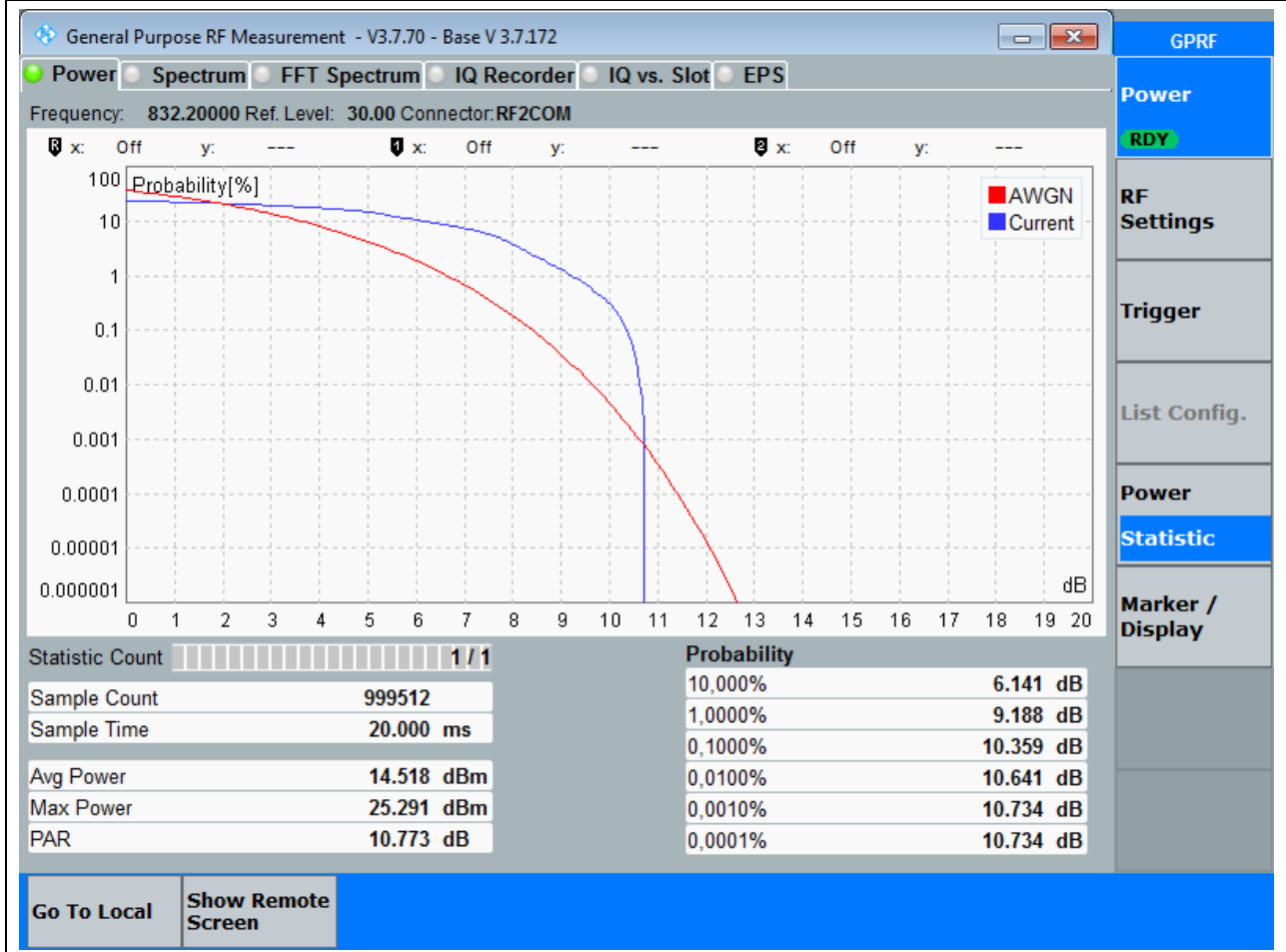
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
832.2	0.1	9.94	13	Pass



3. LTE-M1_Band5_16QAM_10MHz_5@0_Index low_Mid

3.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

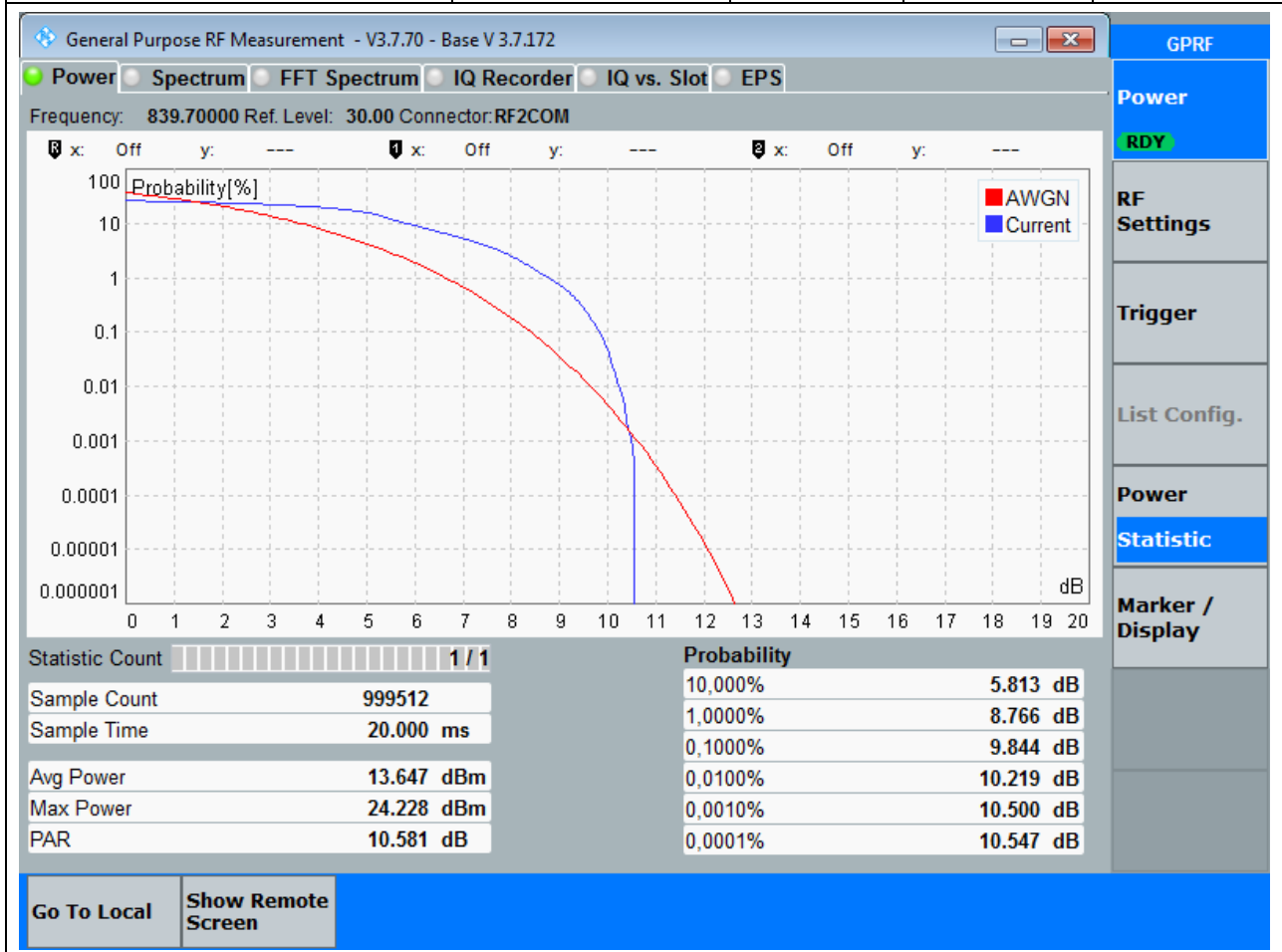
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
832.2	0.1	10.36	13	Pass



3. LTE-M1_Band5_QPSK_10MHz_6@0_Index low_High

3.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
839.7	0.1	9.84	13	Pass



3. LTE-M1_Band5_16QAM_10MHz_5@0_Index low_High

3.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
839.7	0.1	10.22	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 839.70000 Ref. Level: 30.00 Connector: RF2COM

GPRF

Power
Spectrum
FFT Spectrum
IQ Recorder
IQ vs. Slot
EPS

x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count	1 / 1
Sample Count	999514
Sample Time	20.000 ms
Avg Power	14.603 dBm
Max Power	25.249 dBm
PAR	10.647 dB

Probability	
10,000%	6.141 dB
1,0000%	9.141 dB
0,1000%	10.219 dB
0,0100%	10.500 dB
0,0010%	10.594 dB
0,0001%	10.594 dB

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

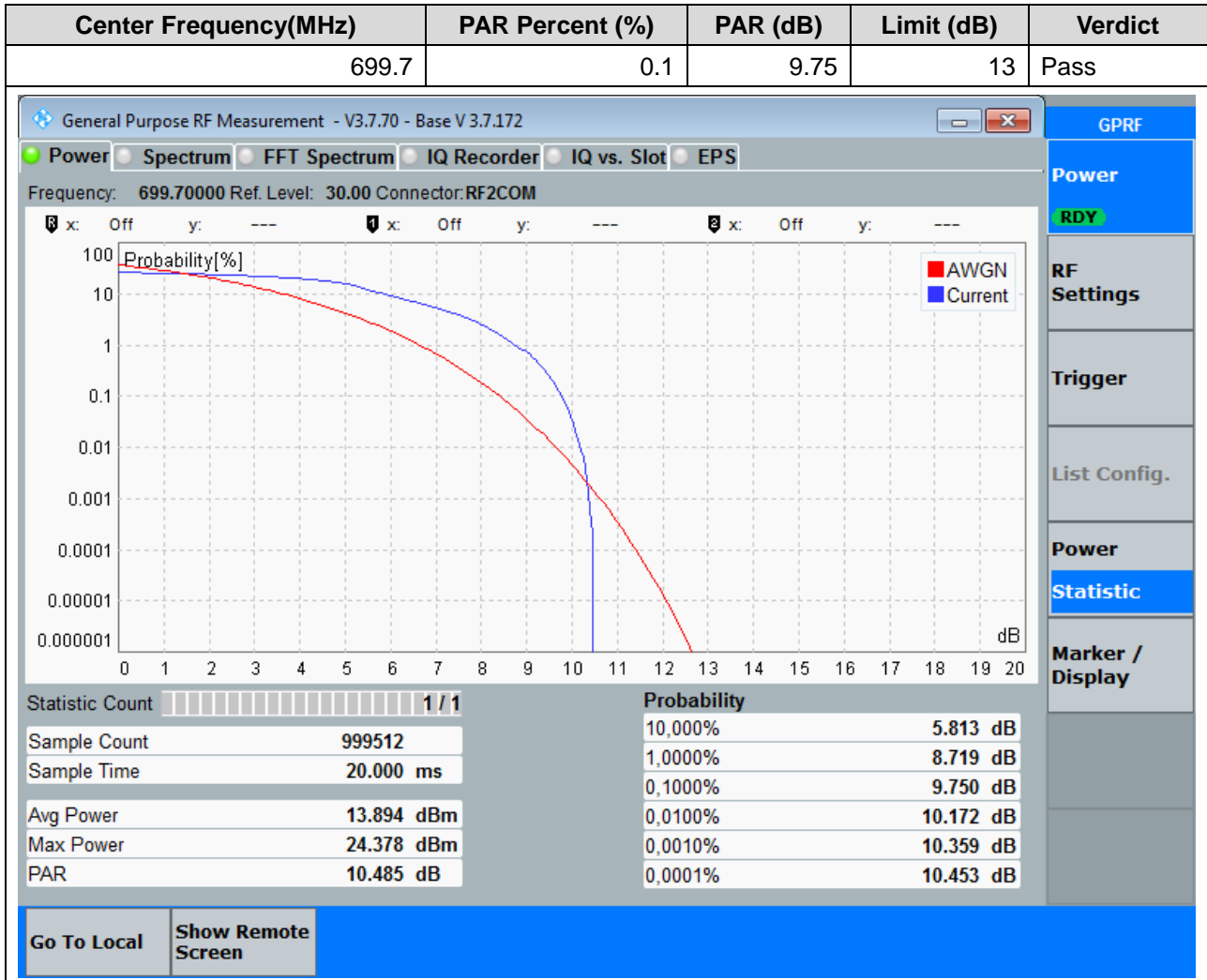
Marker / Display

Go To Local

Show Remote Screen

4. LTE-M1_Band12_QPSK_10MHz_6@0_Index low_Low

4.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



4. LTE-M1_Band12_16QAM_10MHz_5@0_Index low_Low

4.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
699.7	0.1	10.22	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 699.70000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Power
Spectrum
FFT Spectrum
IQ Recorder
IQ vs. Slot
EPS

x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count		Probability	
Sample Count	999514	10,000%	6.141 dB
Sample Time	20.000 ms	1,0000%	9.141 dB
Avg Power	15.089 dBm	0,1000%	10.219 dB
Max Power	25.670 dBm	0,0100%	10.453 dB
PAR	10.580 dB	0,0010%	10.547 dB
		0,0001%	10.547 dB

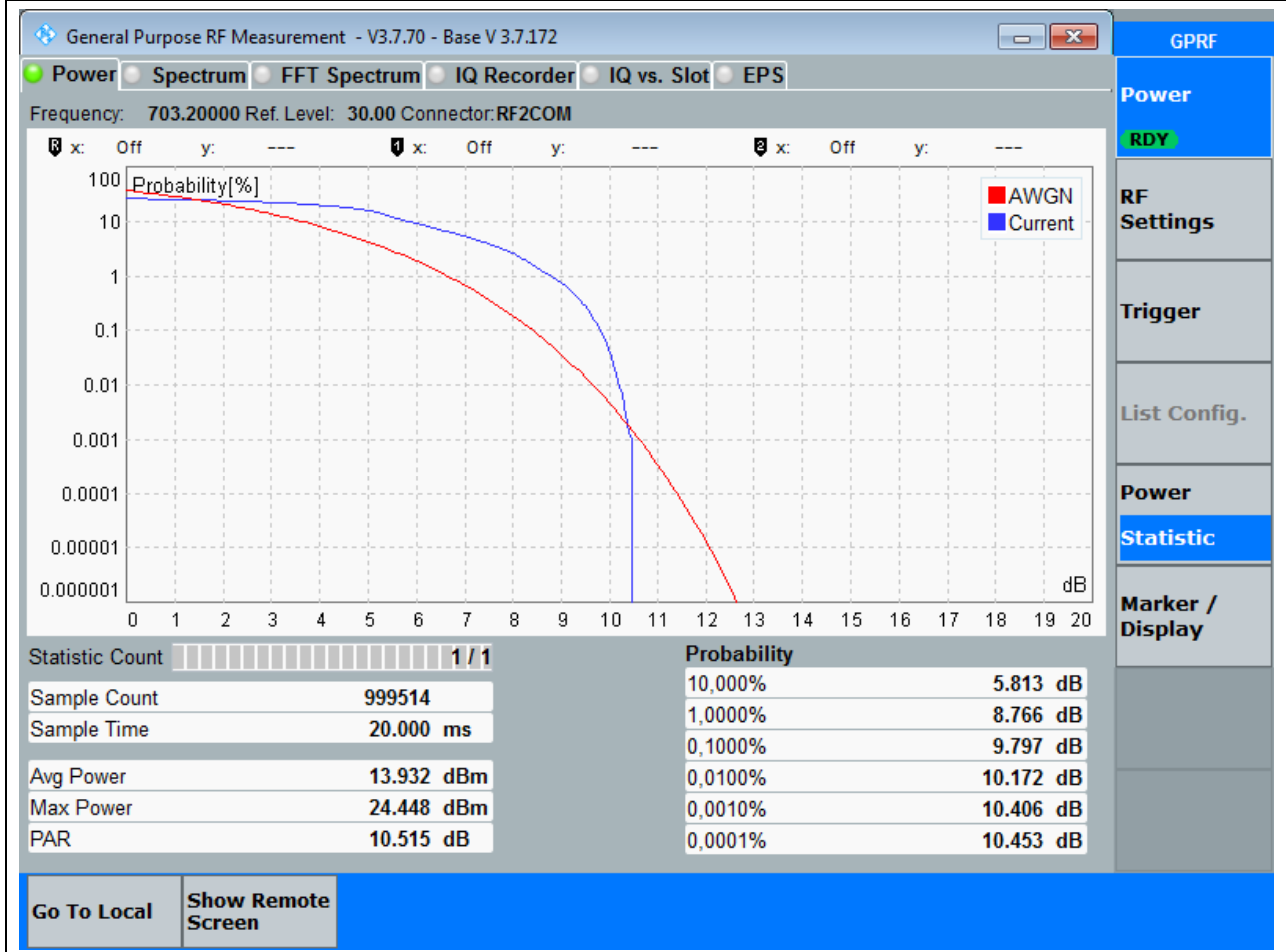
Power
RDY
RF Settings
Trigger
List Config.
Power
Statistic
Marker / Display

Go To Local
Show Remote Screen

4. LTE-M1_Band12_QPSK_10MHz_6@0_Index low_Mid

4.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
703.2	0.1	9.8	13	Pass



4. LTE-M1_Band12_16QAM_10MHz_5@0_Index low_Mid

4.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
703.2	0.1	10.22	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 703.20000 Ref. Level: 30.00 Connector: RF2COM

GPRF

Statistic Count		Probability	
Sample Count	999512	10,000%	6.141 dB
Sample Time	20.000 ms	1,0000%	9.141 dB
Avg Power	14.945 dBm	0,1000%	10.219 dB
Max Power	25.550 dBm	0,0100%	10.500 dB
PAR	10.605 dB	0,0010%	10.547 dB
		0,0001%	10.594 dB

Go To Local
Show Remote Screen

Power **RDY**

RF Settings

Trigger

List Config.

Power **Statistic**

Marker / Display

4. LTE-M1_Band12_QPSK_10MHz_6@0_Index low_High

4.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
706.7	0.1	10.27	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 706.70000 Ref. Level: 30.00 Connector: RF2COM

GPRF

x: Off y: --- x: Off y: --- x: Off y: ---

Legend: AWGN (red), Current (blue)

Statistic Count 1 / 1 Sample Count: 999512 Sample Time: 20.000 ms Avg Power: 14.886 dBm Max Power: 25.528 dBm PAR: 10.641 dB	<table border="1" style="width: 100%; font-size: x-small;"> <thead> <tr> <th>Probability</th> <th>Value (dB)</th> </tr> </thead> <tbody> <tr><td>10,000%</td><td>6.141 dB</td></tr> <tr><td>1,0000%</td><td>9.141 dB</td></tr> <tr><td>0,1000%</td><td>10.266 dB</td></tr> <tr><td>0,0100%</td><td>10.500 dB</td></tr> <tr><td>0,0010%</td><td>10.594 dB</td></tr> <tr><td>0,0001%</td><td>10.594 dB</td></tr> </tbody> </table>	Probability	Value (dB)	10,000%	6.141 dB	1,0000%	9.141 dB	0,1000%	10.266 dB	0,0100%	10.500 dB	0,0010%	10.594 dB	0,0001%	10.594 dB
Probability	Value (dB)														
10,000%	6.141 dB														
1,0000%	9.141 dB														
0,1000%	10.266 dB														
0,0100%	10.500 dB														
0,0010%	10.594 dB														
0,0001%	10.594 dB														

Go To Local
Show Remote Screen

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display

4. LTE-M1_Band12_16QAM_10MHz_5@0_Index low_High

4.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
706.7	0.1	10.27	13	Pass

General Purpose RF Measurement - V3.7.70 - Base V 3.7.172
 Frequency: 706.70000 Ref. Level: 30.00 Connector:RF2COM

GPRF
 Power
RDY
 RF Settings
 Trigger
 List Config.
 Power
Statistic
 Marker / Display

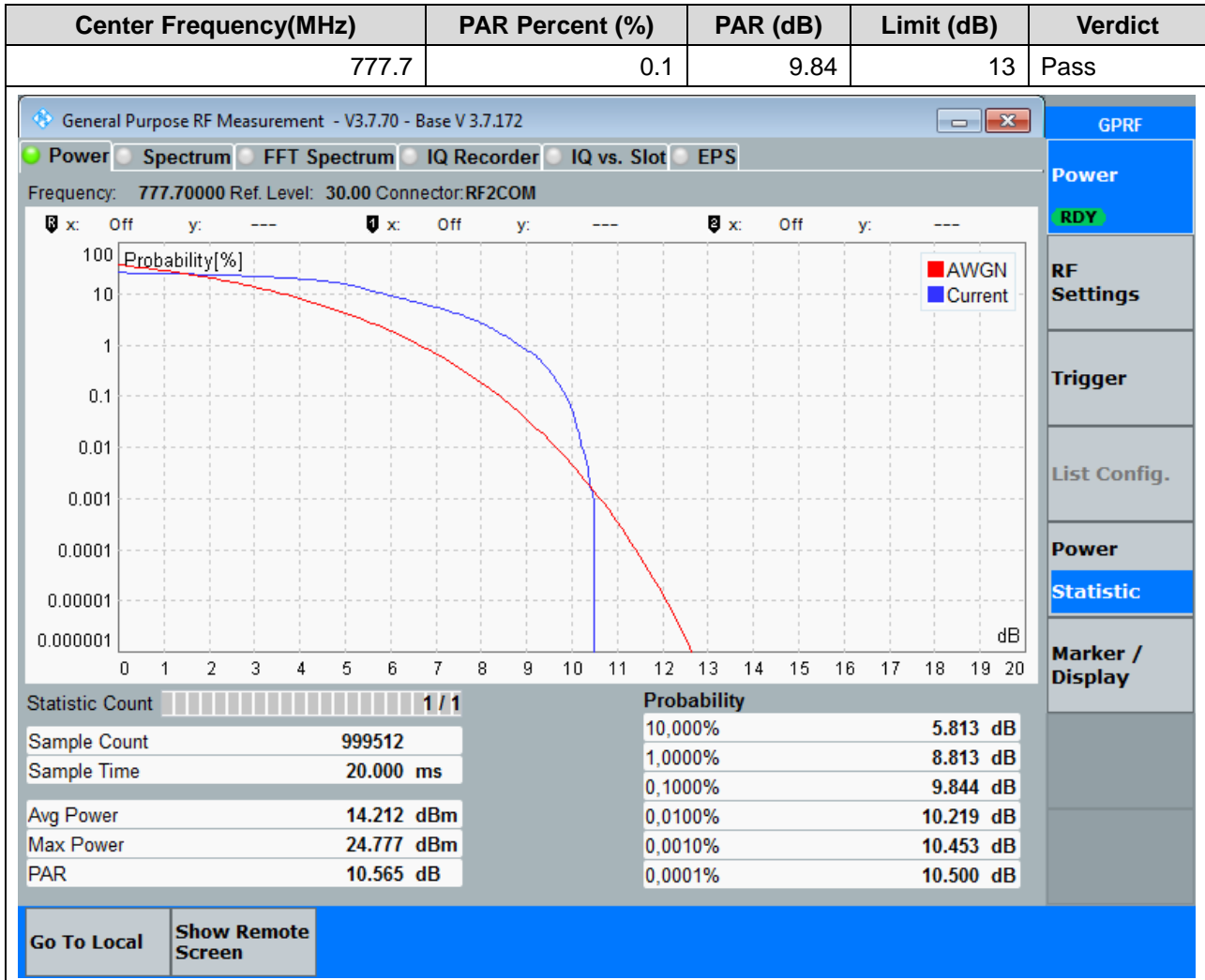
x: Off y: ---
x: Off y: ---
x: Off y: ---

Statistic Count	Probability	
Sample Count: 999512	10,000%	6.141 dB
Sample Time: 20.000 ms	1,0000%	9.141 dB
Avg Power: 14.898 dBm	0,1000%	10.266 dB
Max Power: 25.543 dBm	0,0100%	10.500 dB
PAR: 10.644 dB	0,0010%	10.594 dB
	0,0001%	10.641 dB

Go To Local
Show Remote Screen

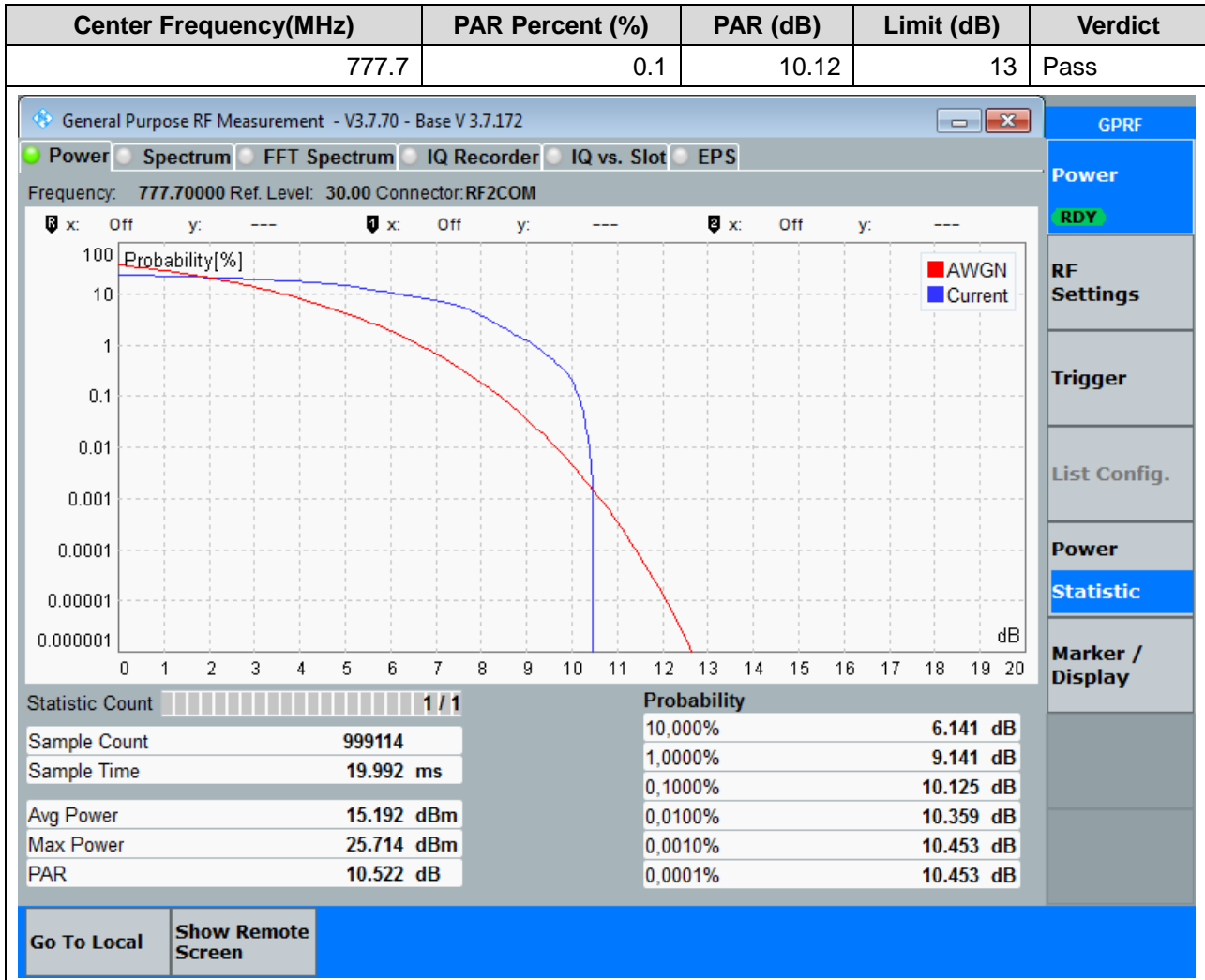
5. LTE-M1_Band13_QPSK_10MHz_6@0_Index low_Mid

5.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



5. LTE-M1_Band13_16QAM_10MHz_5@0_Index low_Mid

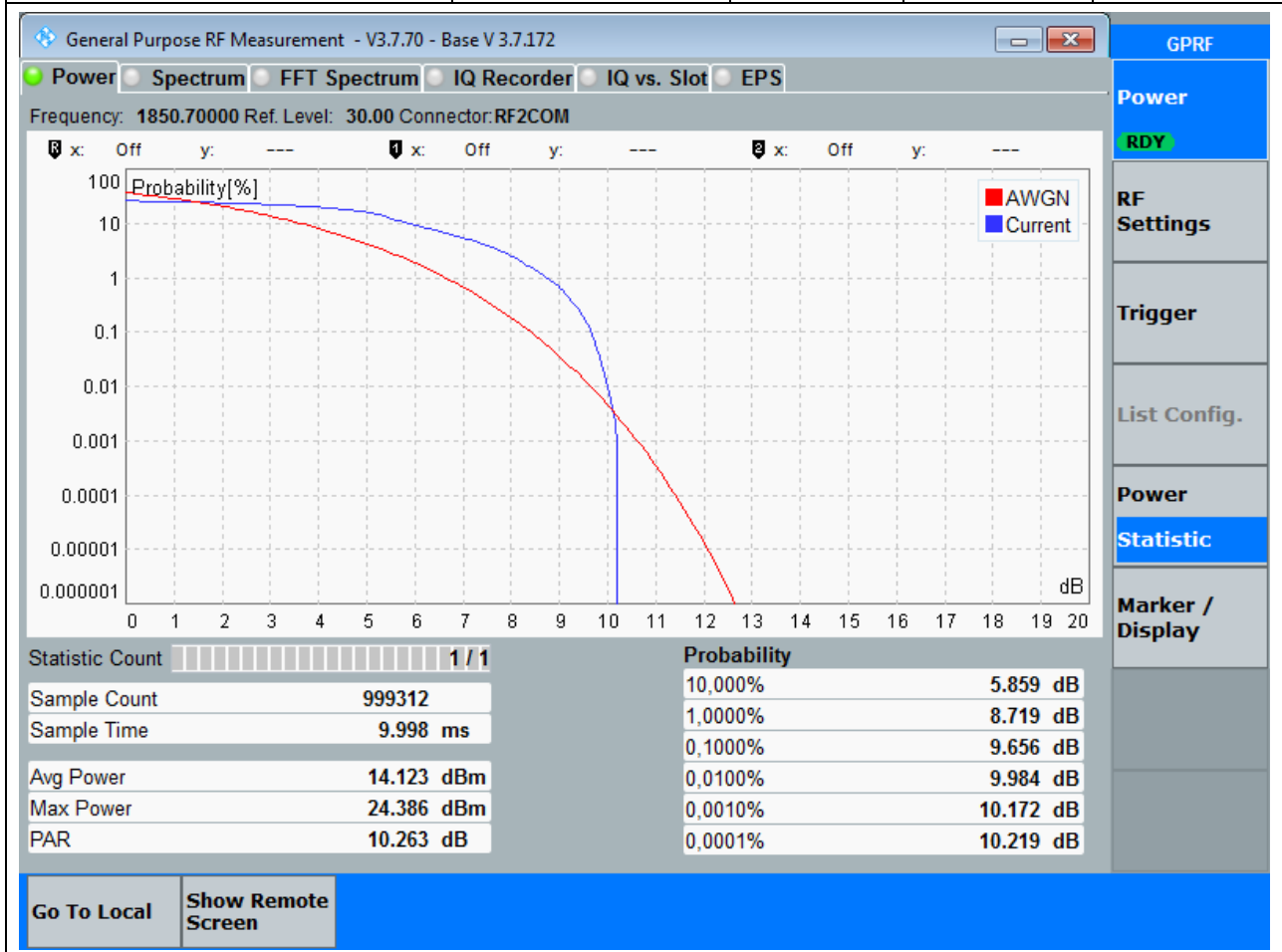
5.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



6. LTE-M1_Band25_QPSK_20MHz_6@0_Index low_Low

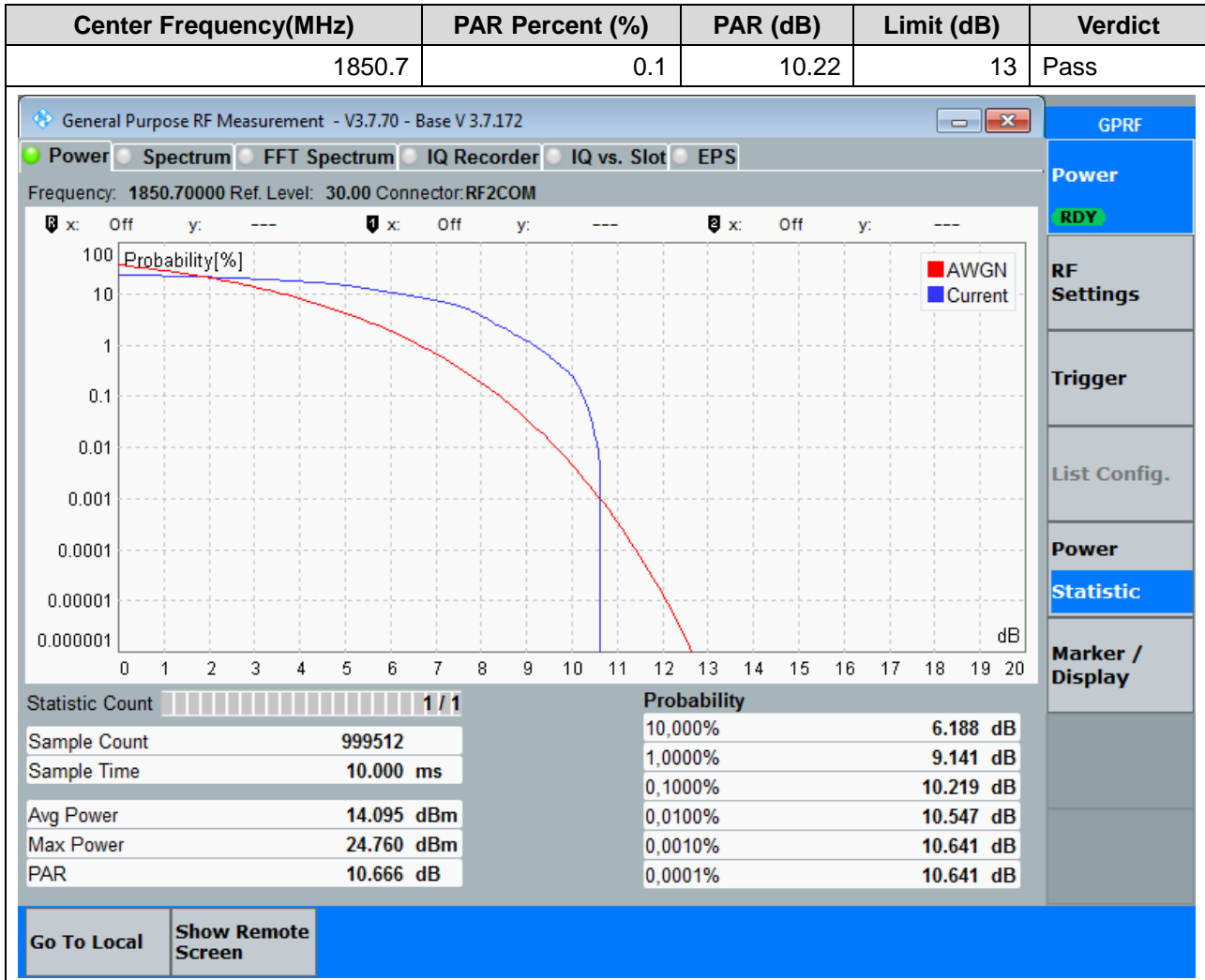
6.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1850.7	0.1	9.66	13	Pass



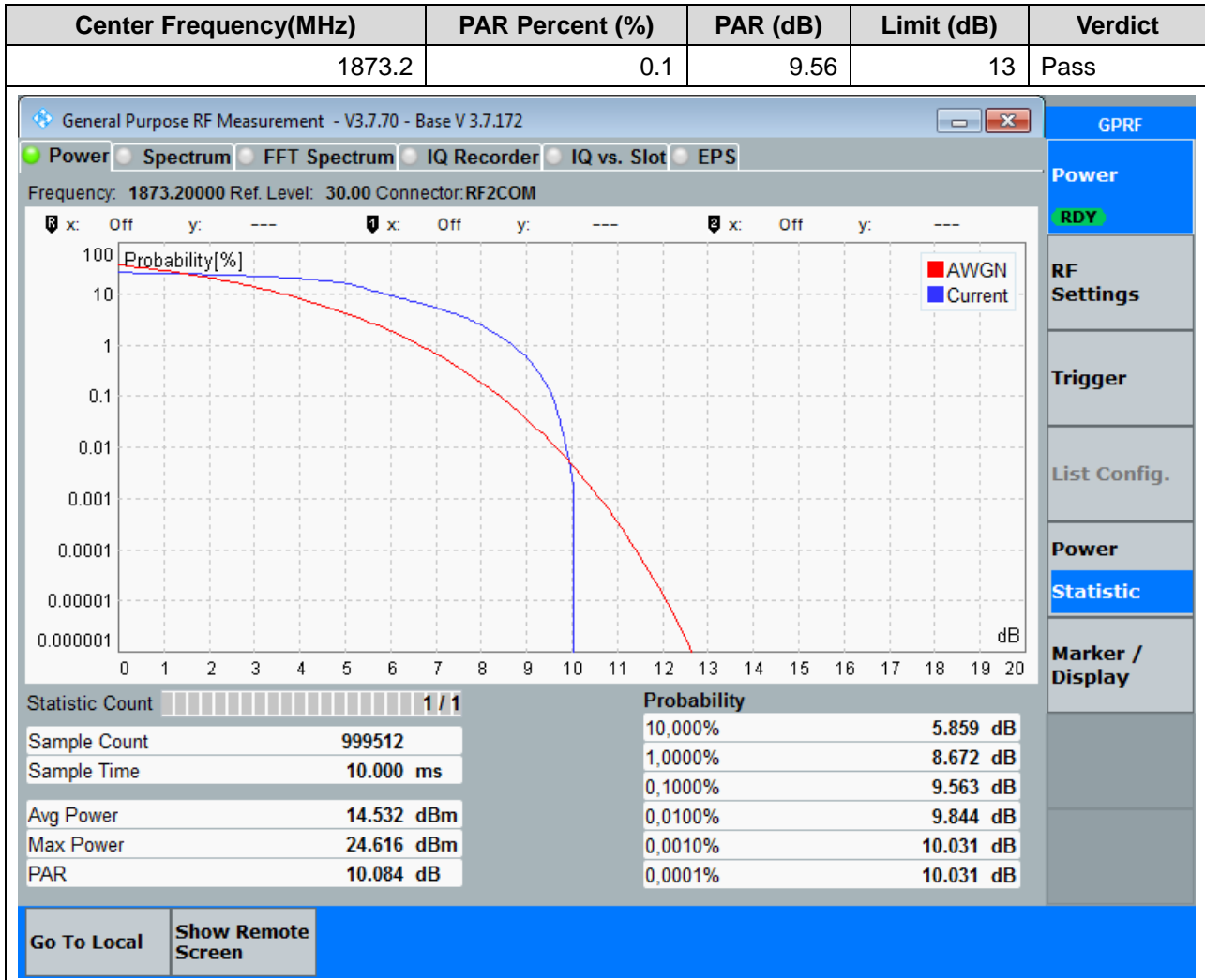
6. LTE-M1_Band25_16QAM_20MHz_5@0_Index low_Low

6.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



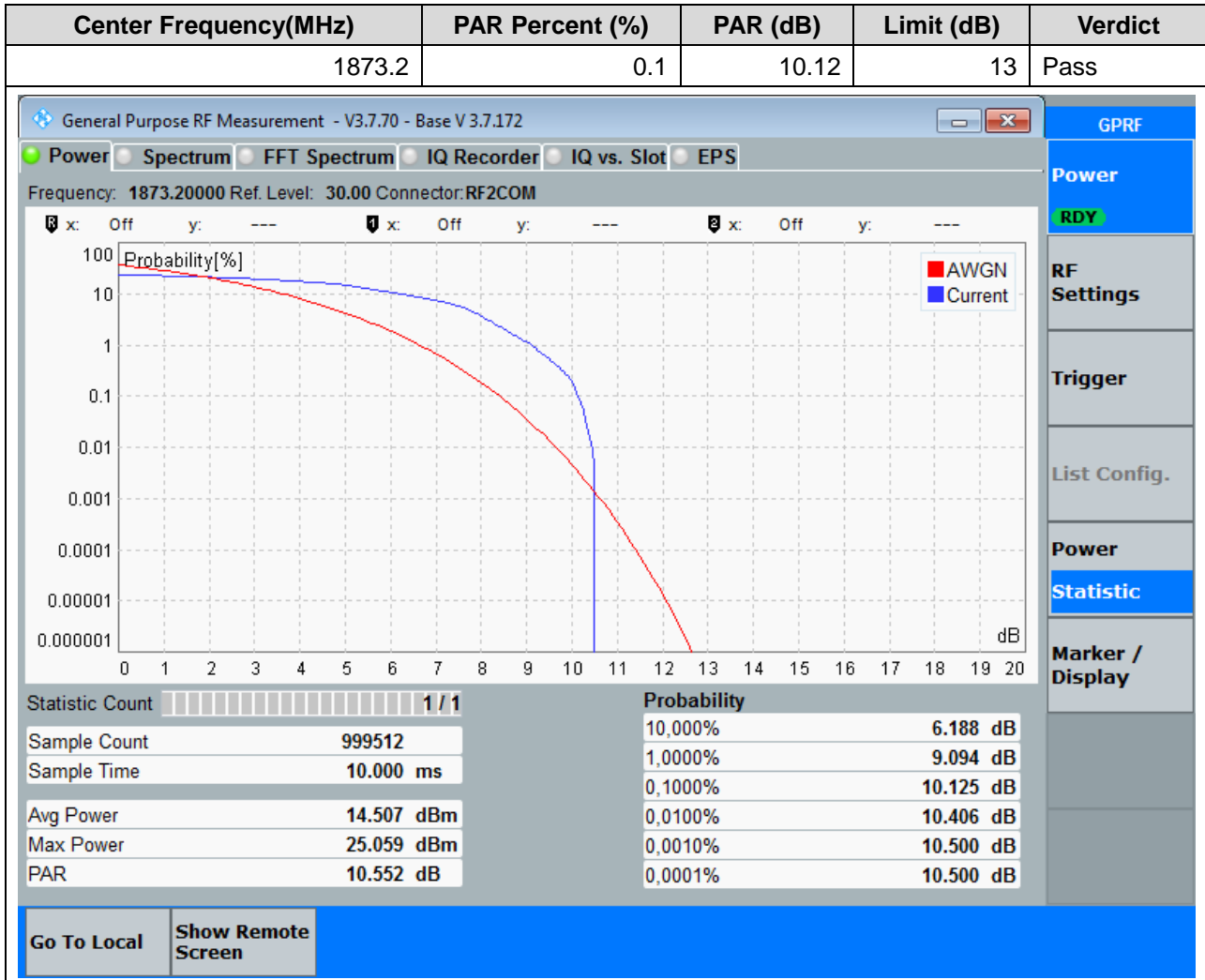
6. LTE-M1_Band25_QPSK_20MHz_6@0_Index low_Mid

6.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



6. LTE-M1_Band25_16QAM_20MHz_5@0_Index low_Mid

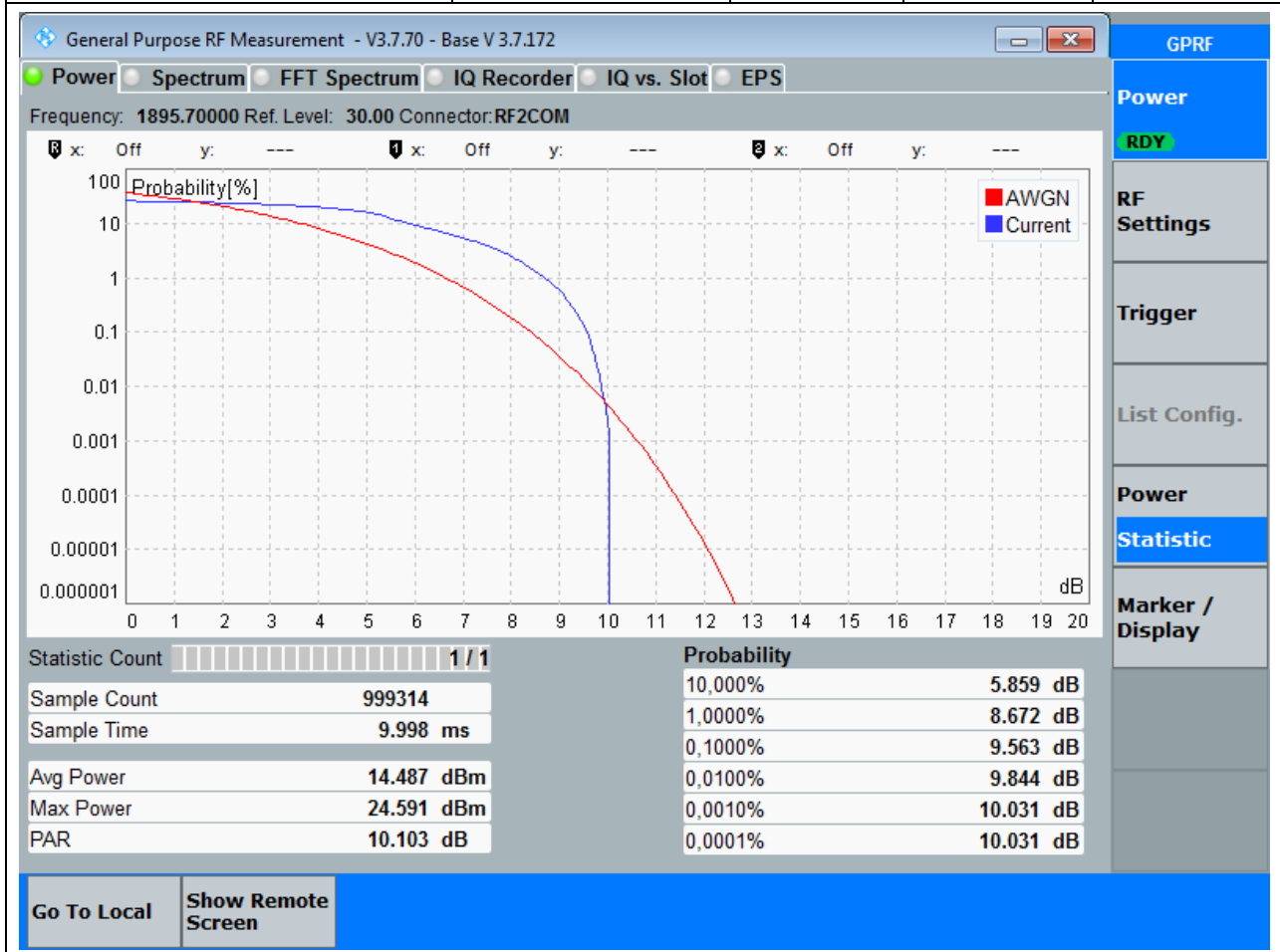
6.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



6. LTE-M1_Band25_QPSK_20MHz_6@0_Index low_High

6.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

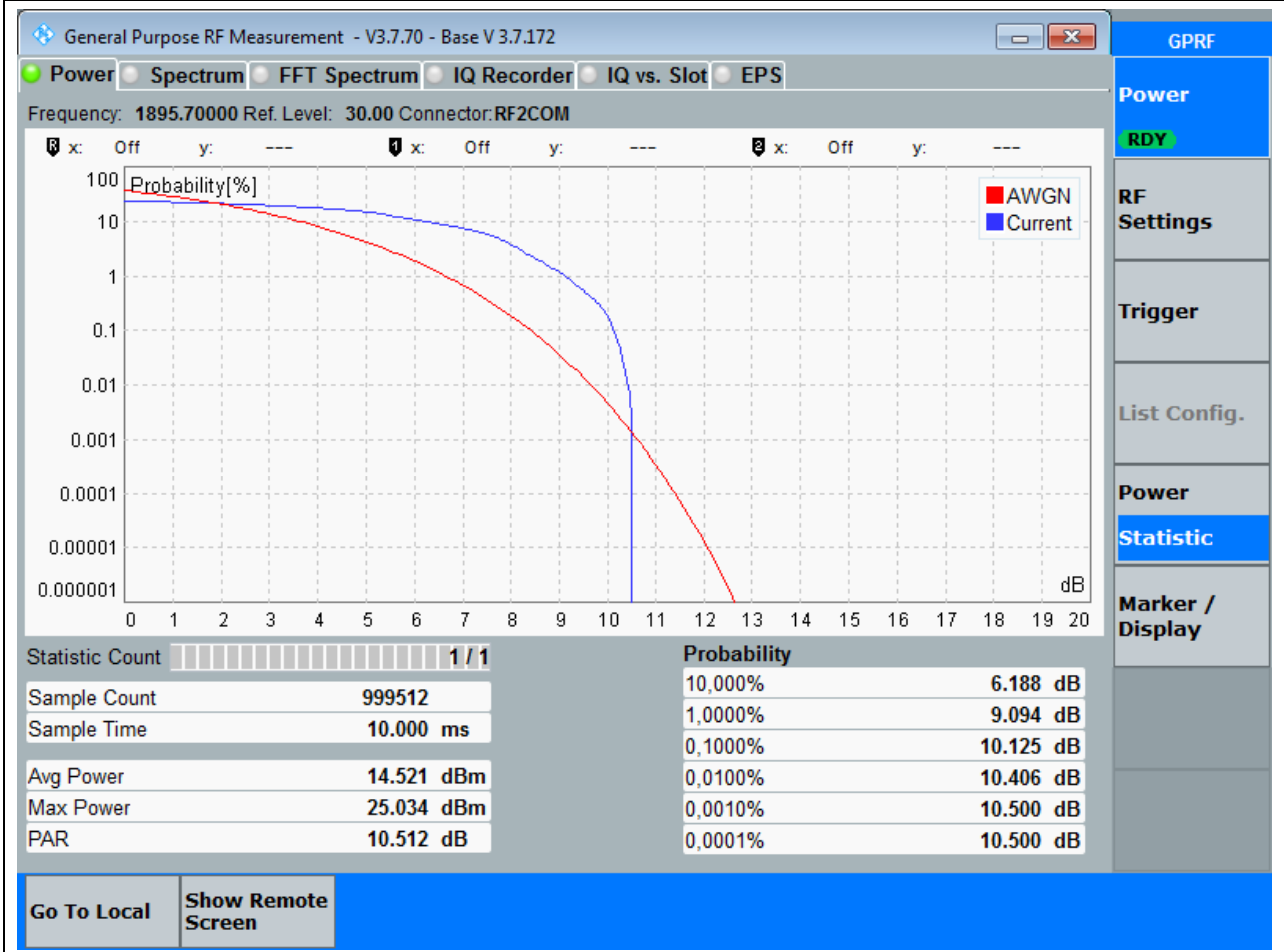
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1895.7	0.1	9.56	13	Pass



6. LTE-M1_Band25_16QAM_20MHz_5@0_Index low_High

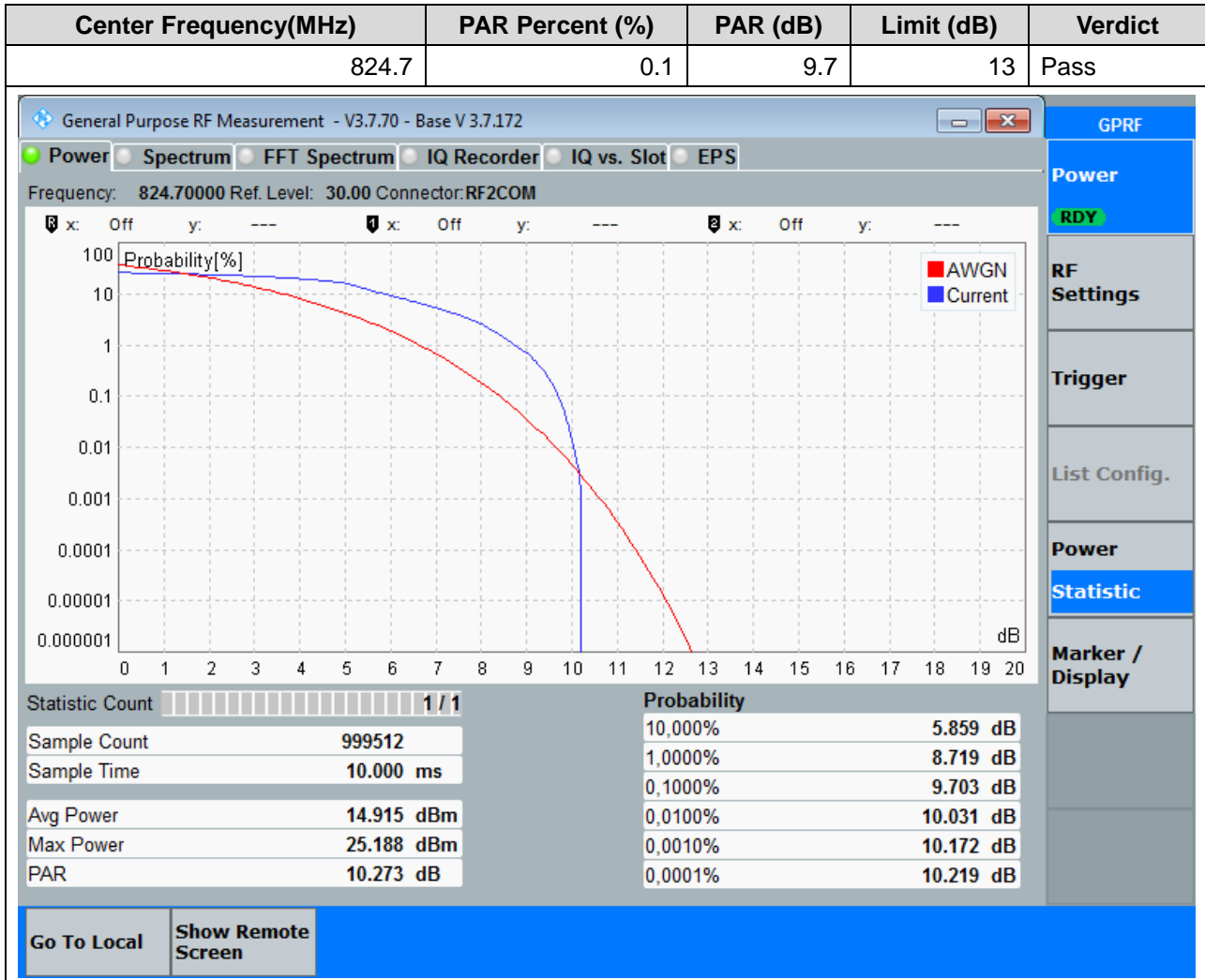
6.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
1895.7	0.1	10.12	13	Pass



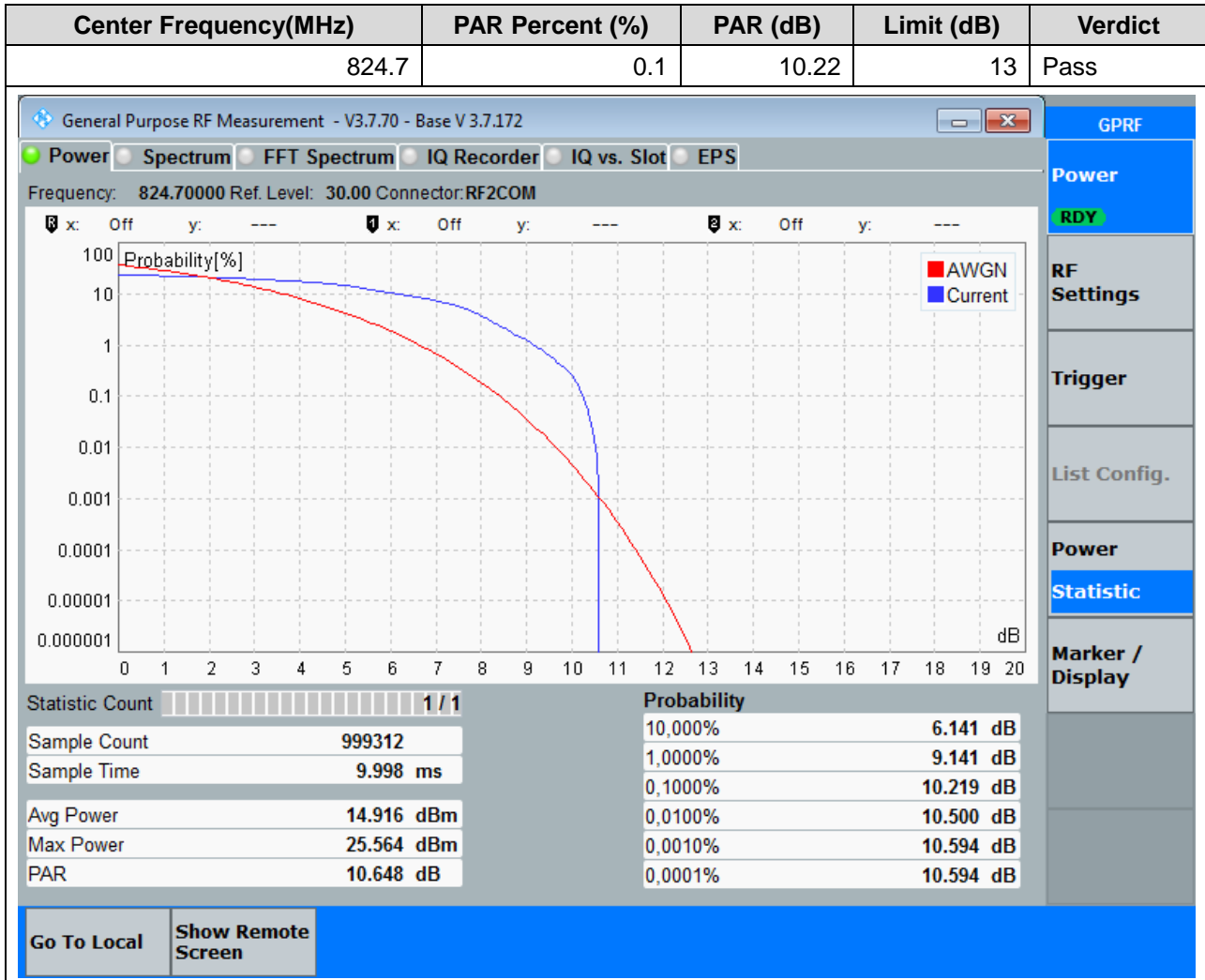
7. LTE-M1_Band26(part22)_QPSK_15MHz_6@0_Index low_Low

7.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



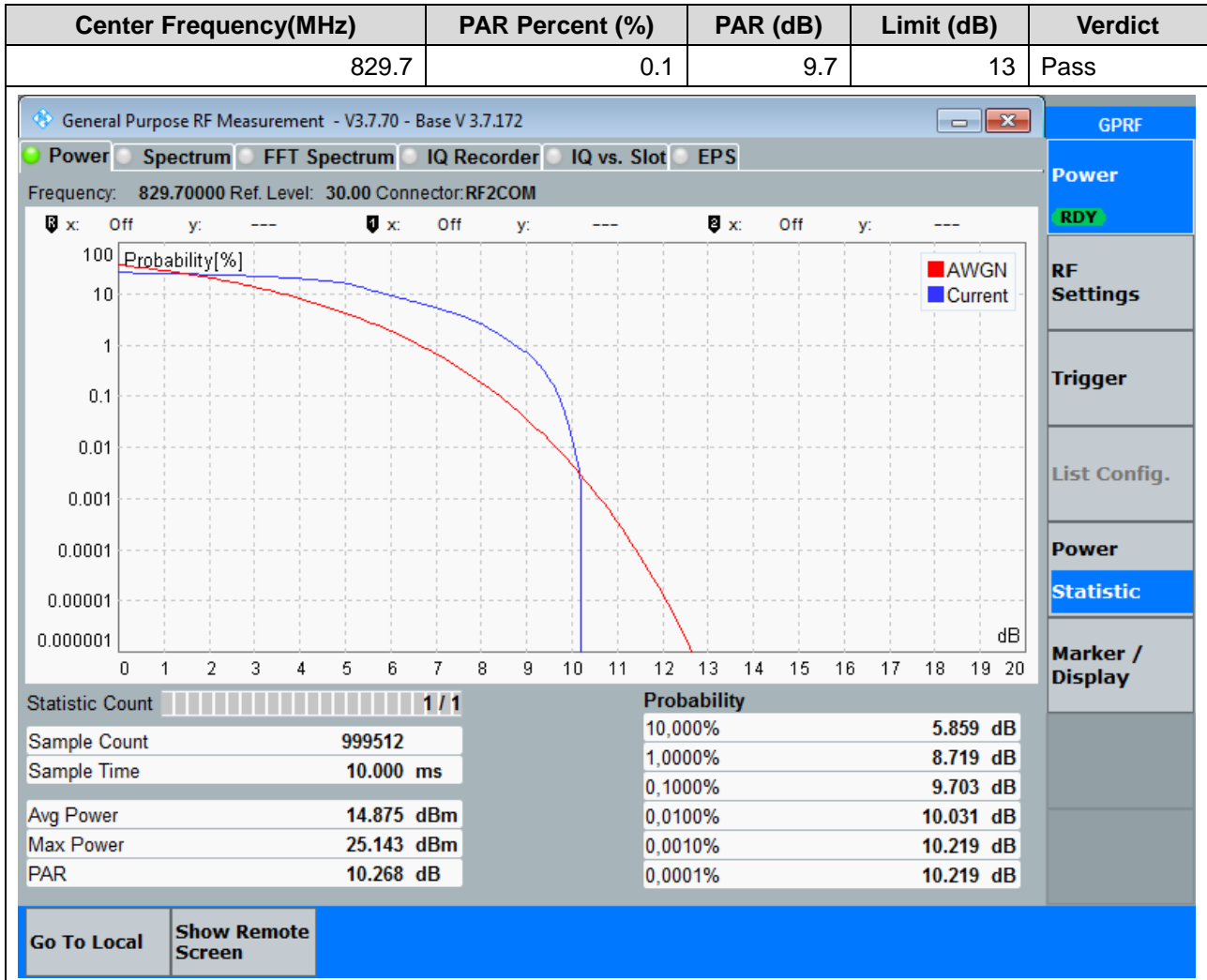
7. LTE-M1_Band26(part22)_16QAM_15MHz_5@0_Index low_Low

7.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



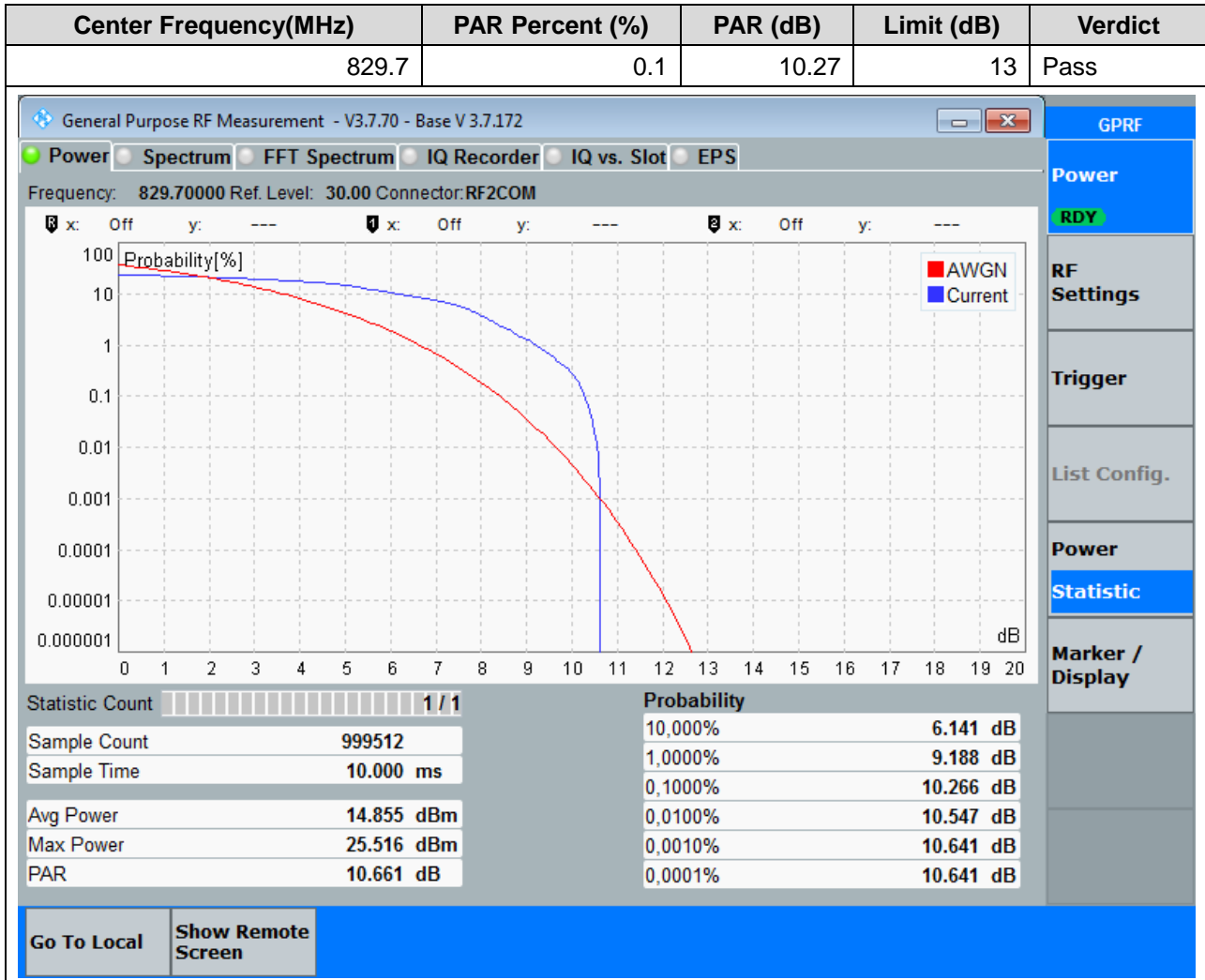
7. LTE-M1_Band26(part22)_QPSK_15MHz_6@0_Index low_Mid

7.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



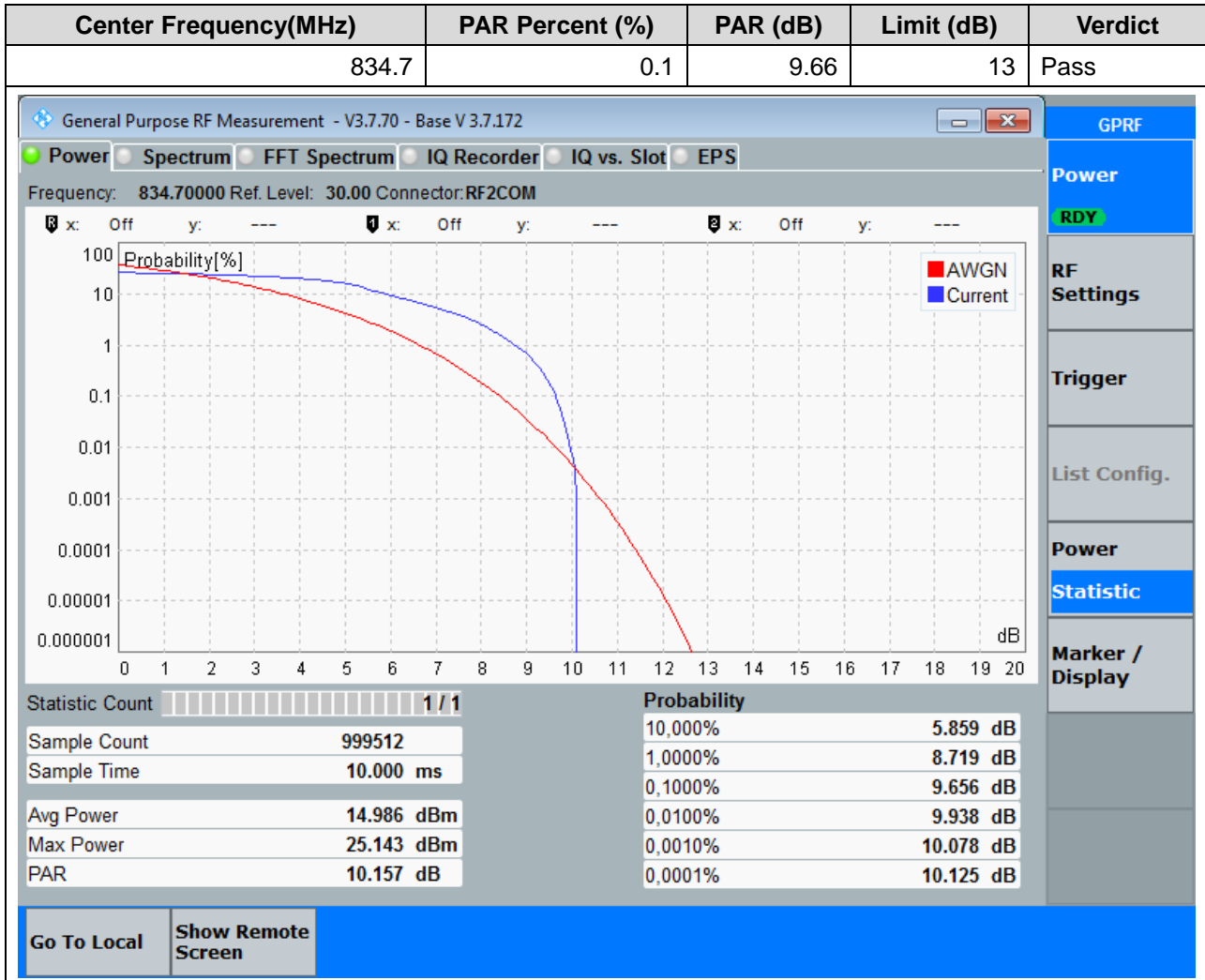
7. LTE-M1_Band26(part22)_16QAM_15MHz_5@0_Index low_Mid

7.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



7. LTE-M1_Band26(part22)_QPSK_15MHz_6@0_Index low_High

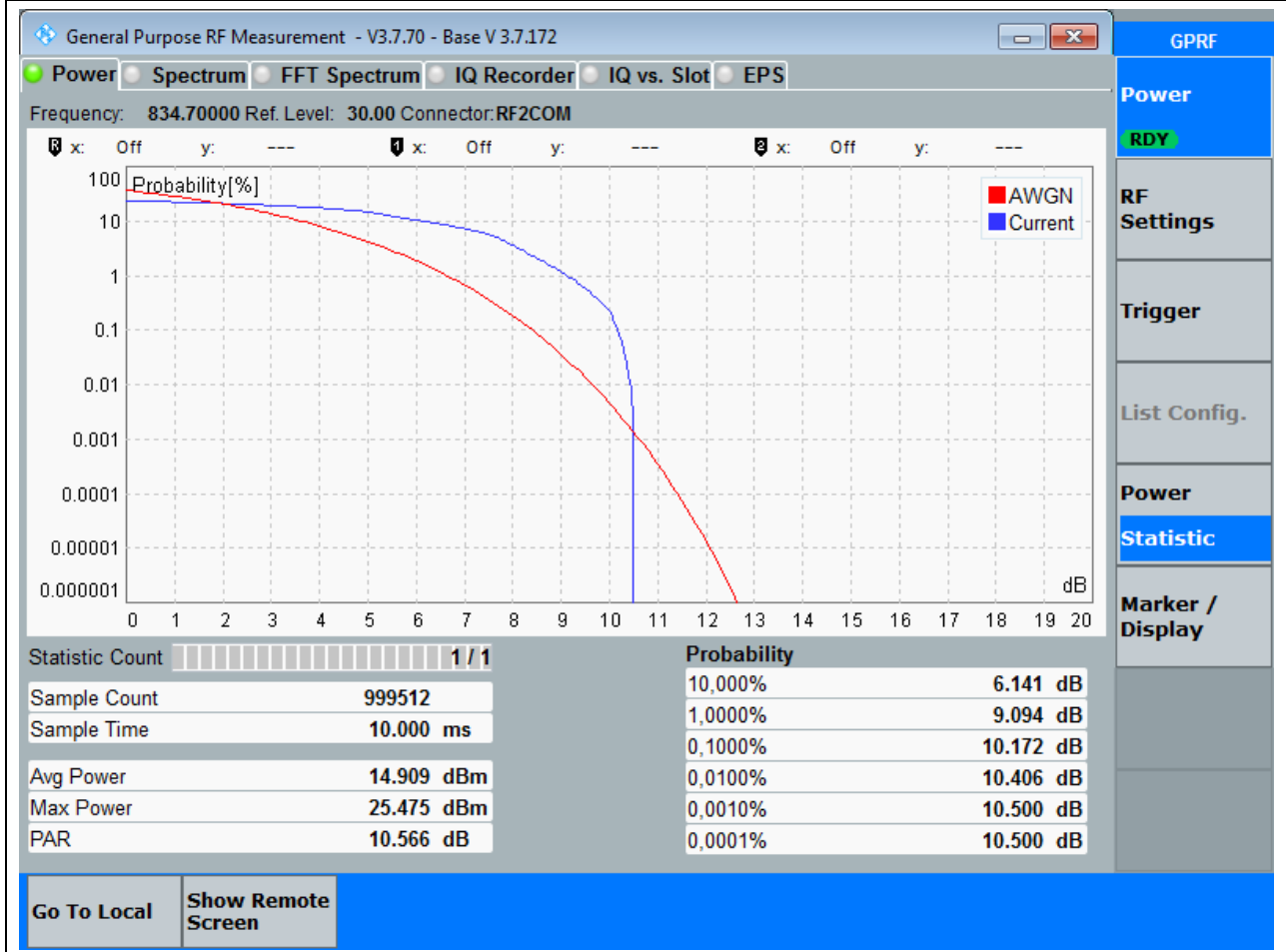
7.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



7. LTE-M1_Band26(part22)_16QAM_15MHz_5@0_Index low_High

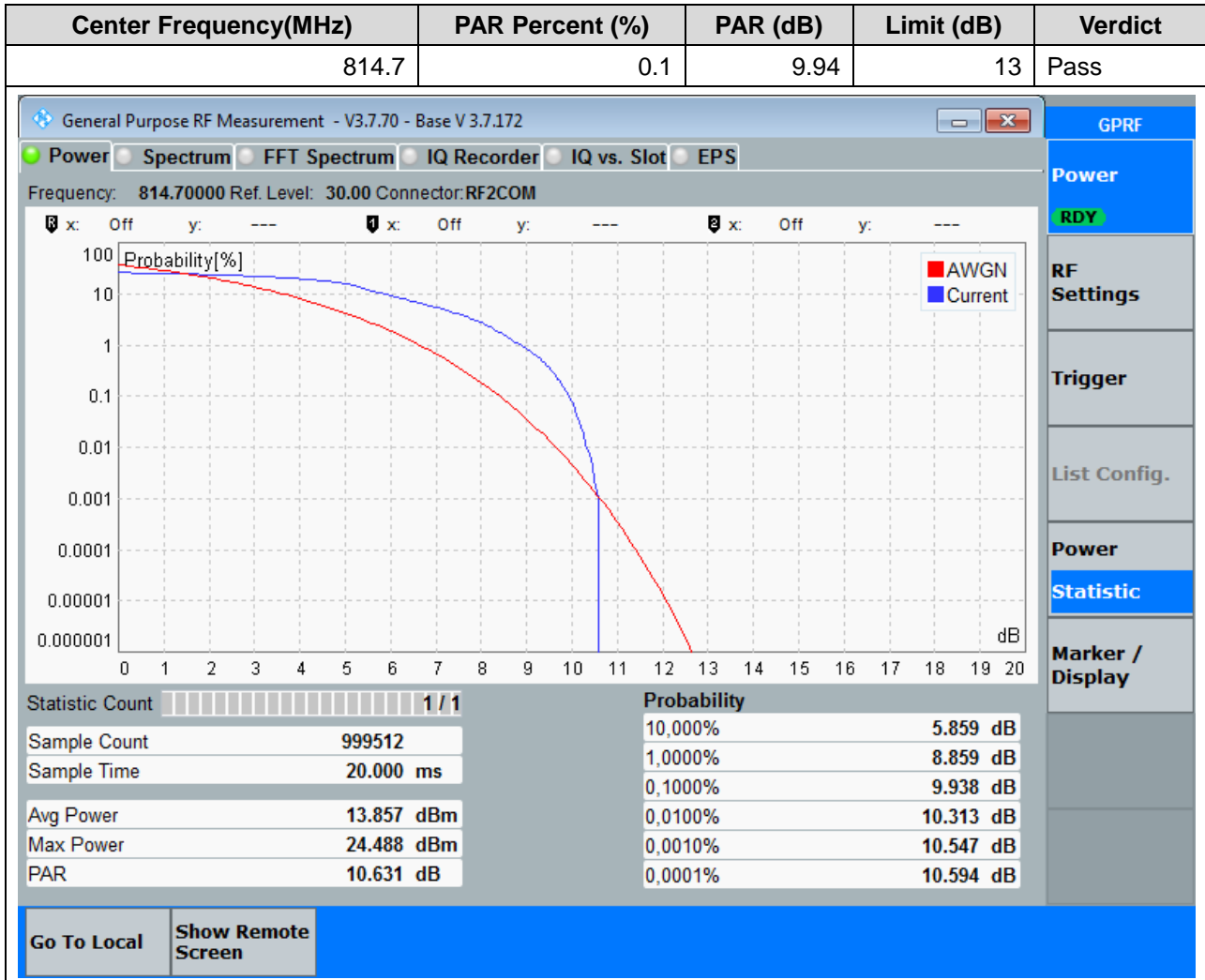
7.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
834.7	0.1	10.17	13	Pass



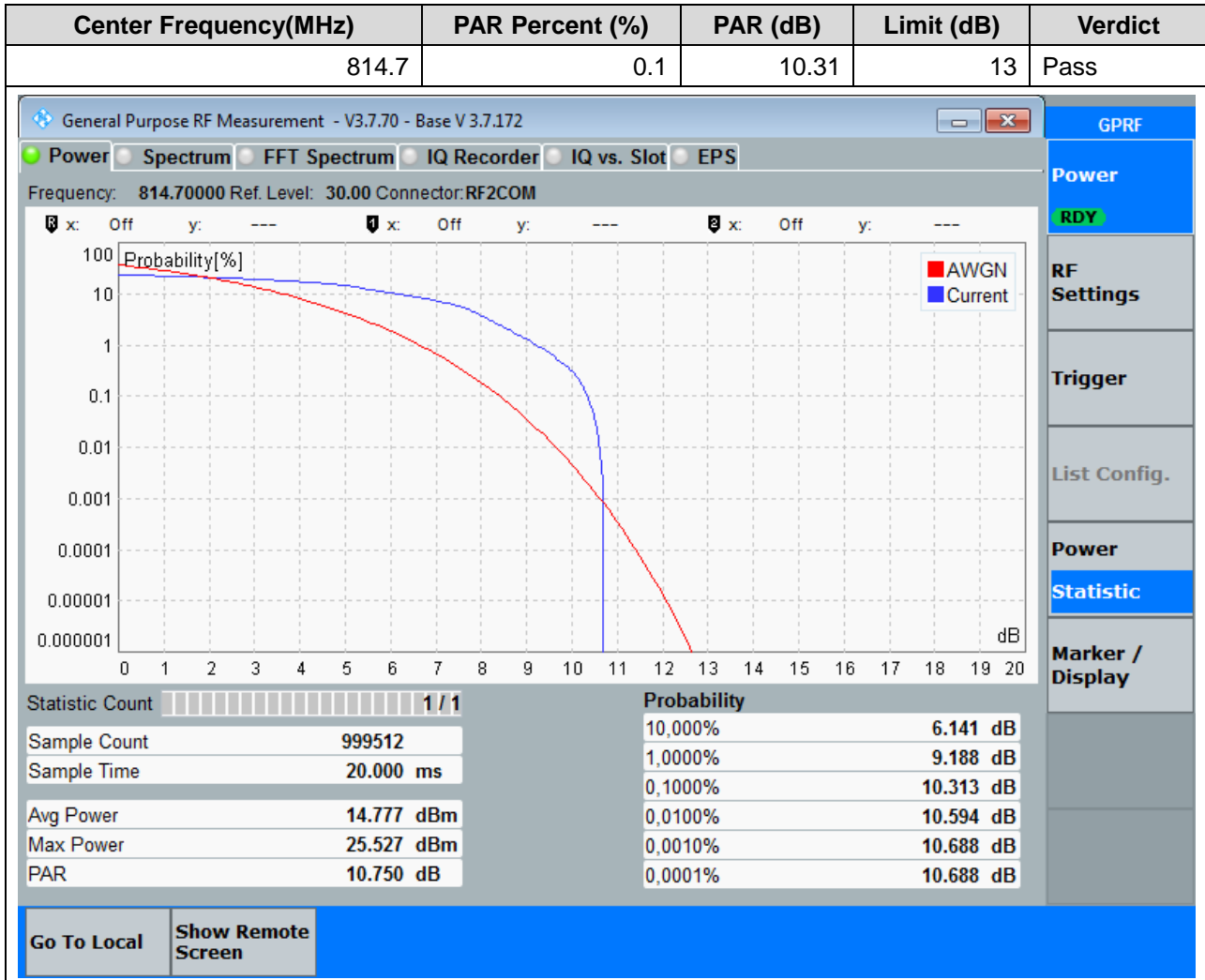
8. LTE-M1_Band26(part 90)_QPSK_10MHz_6@0_Index low_Mid

8.1. LTE-M1 Peak to Average Ratio_Part90(NTNV)



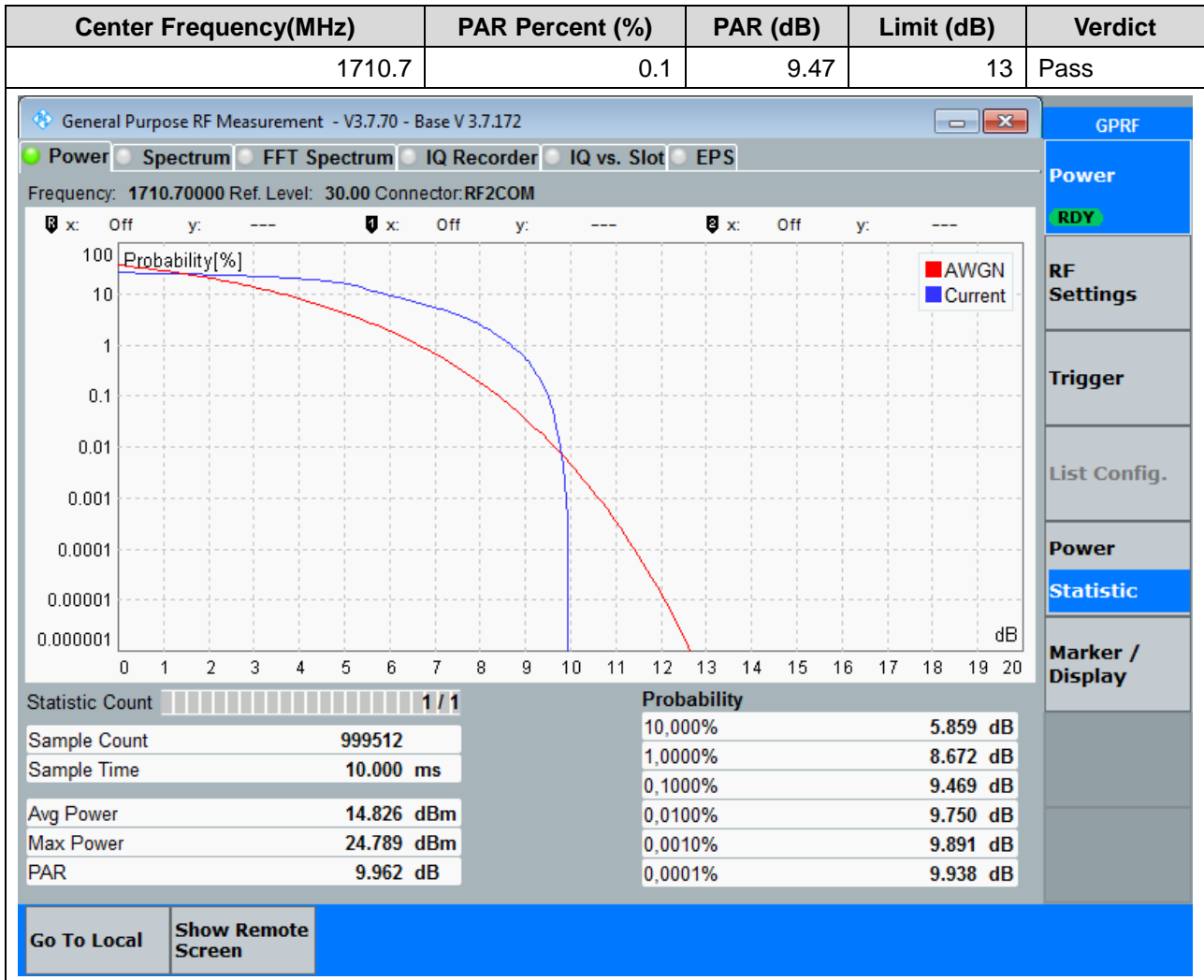
8. LTE-M1_Band26(part 90)_16QAM_10MHz_5@0_Index low_Mid

8.2. LTE-M1 Peak to Average Ratio_Part90(NTNV)



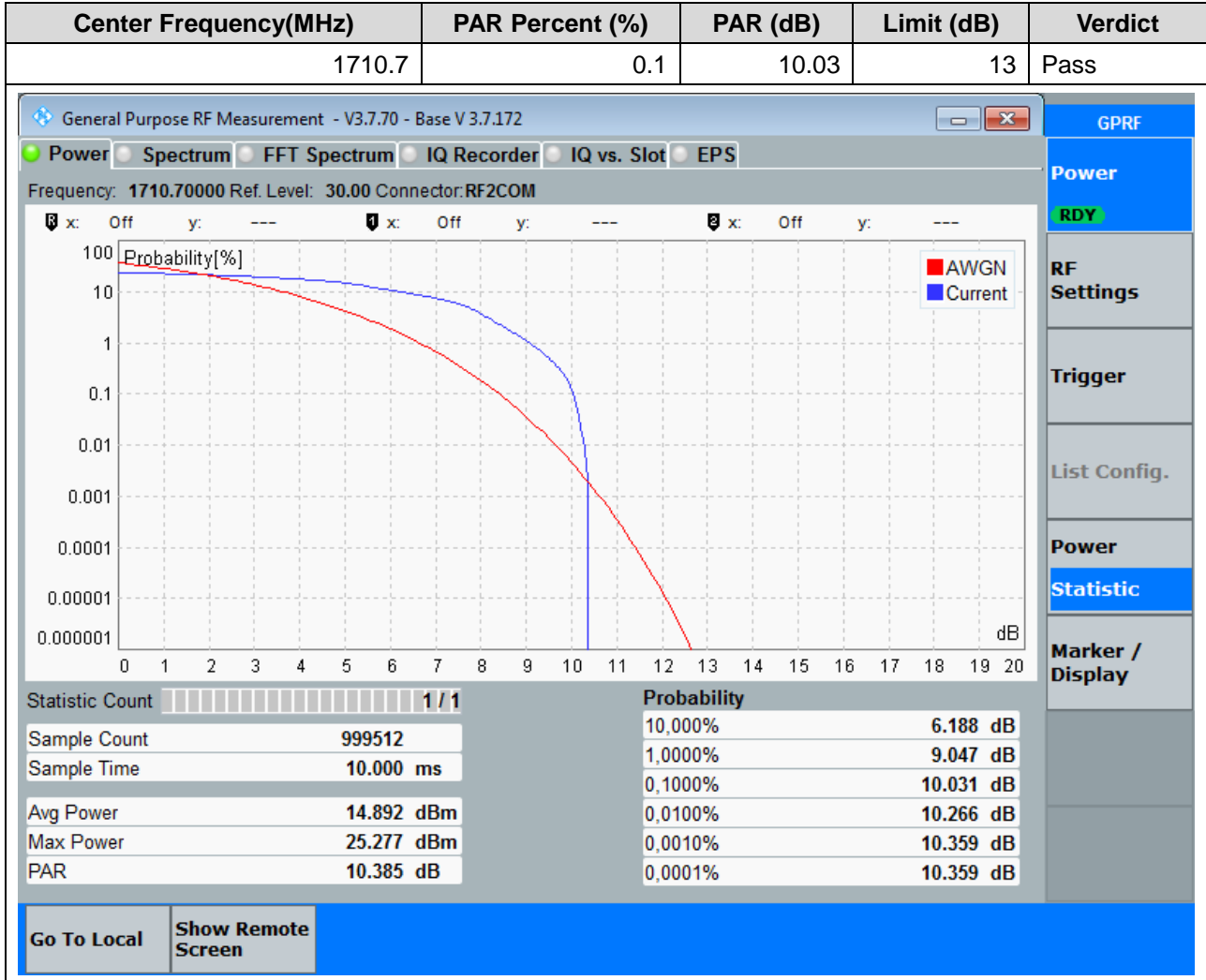
9. LTE-M1_Band66_QPSK_20MHz_6@0_Index low_Low

9.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



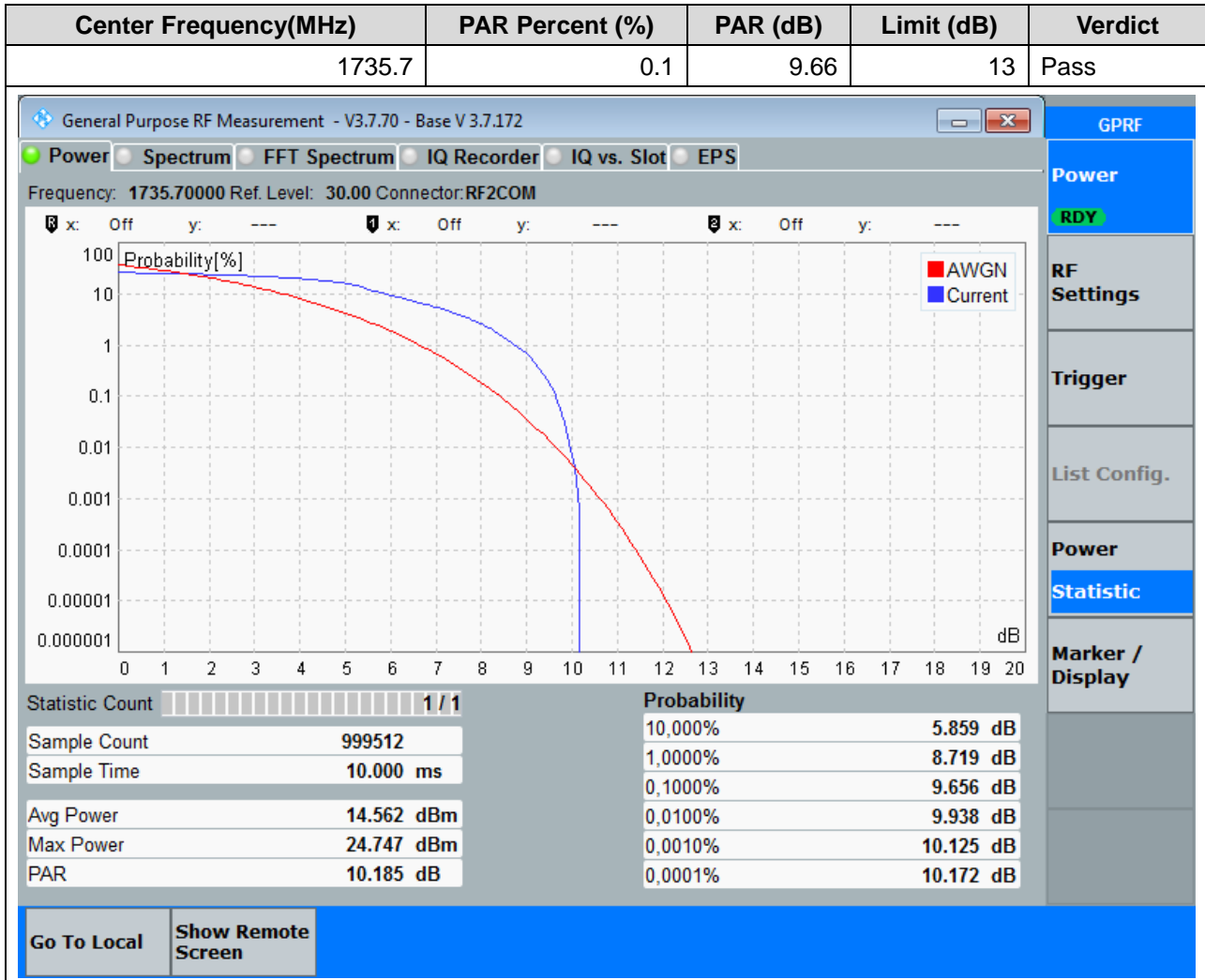
9. LTE-M1_Band66_16QAM_20MHz_5@0_Index low_Low

9.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



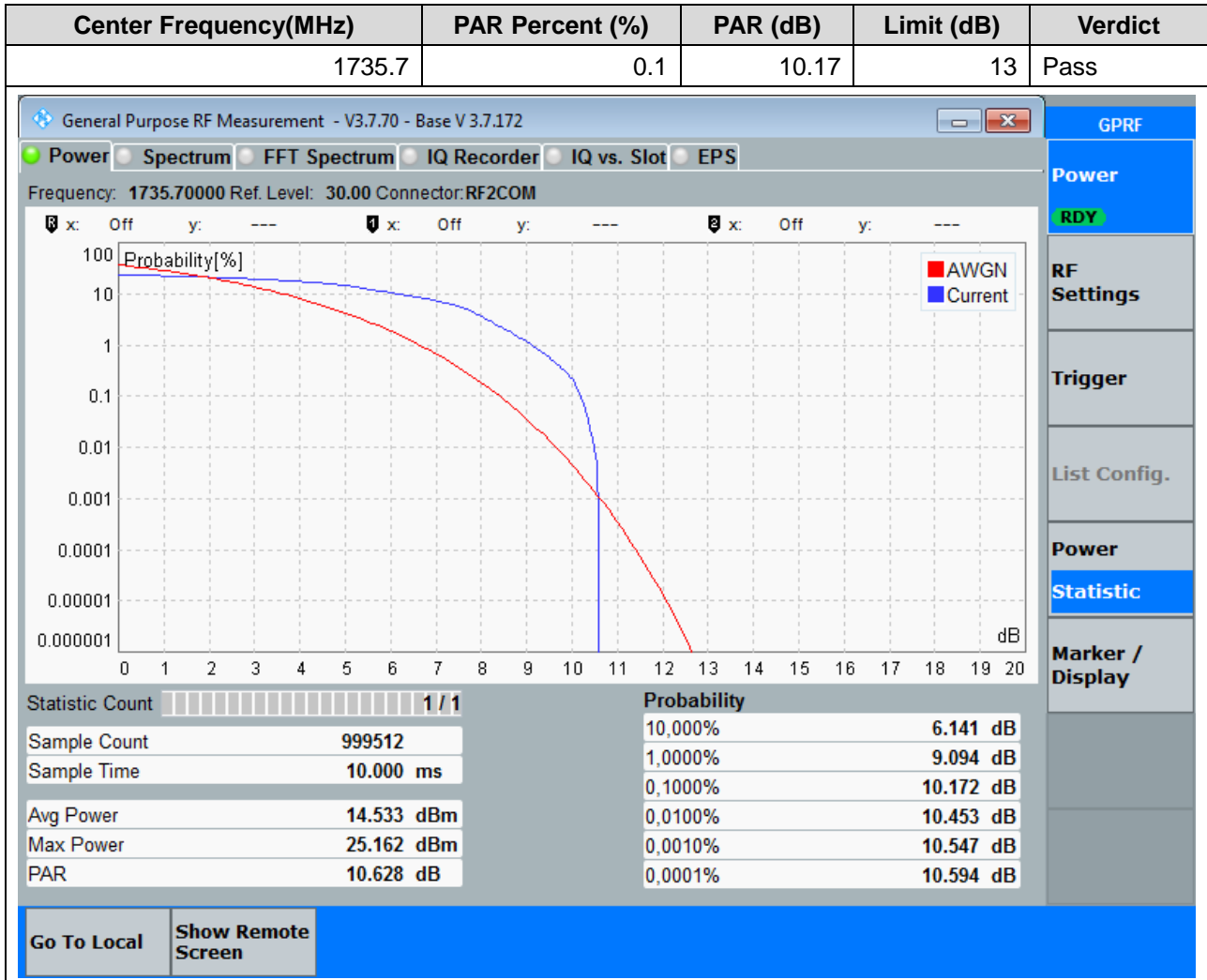
9. LTE-M1_Band66_QPSK_20MHz_6@0_Index low_Mid

9.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



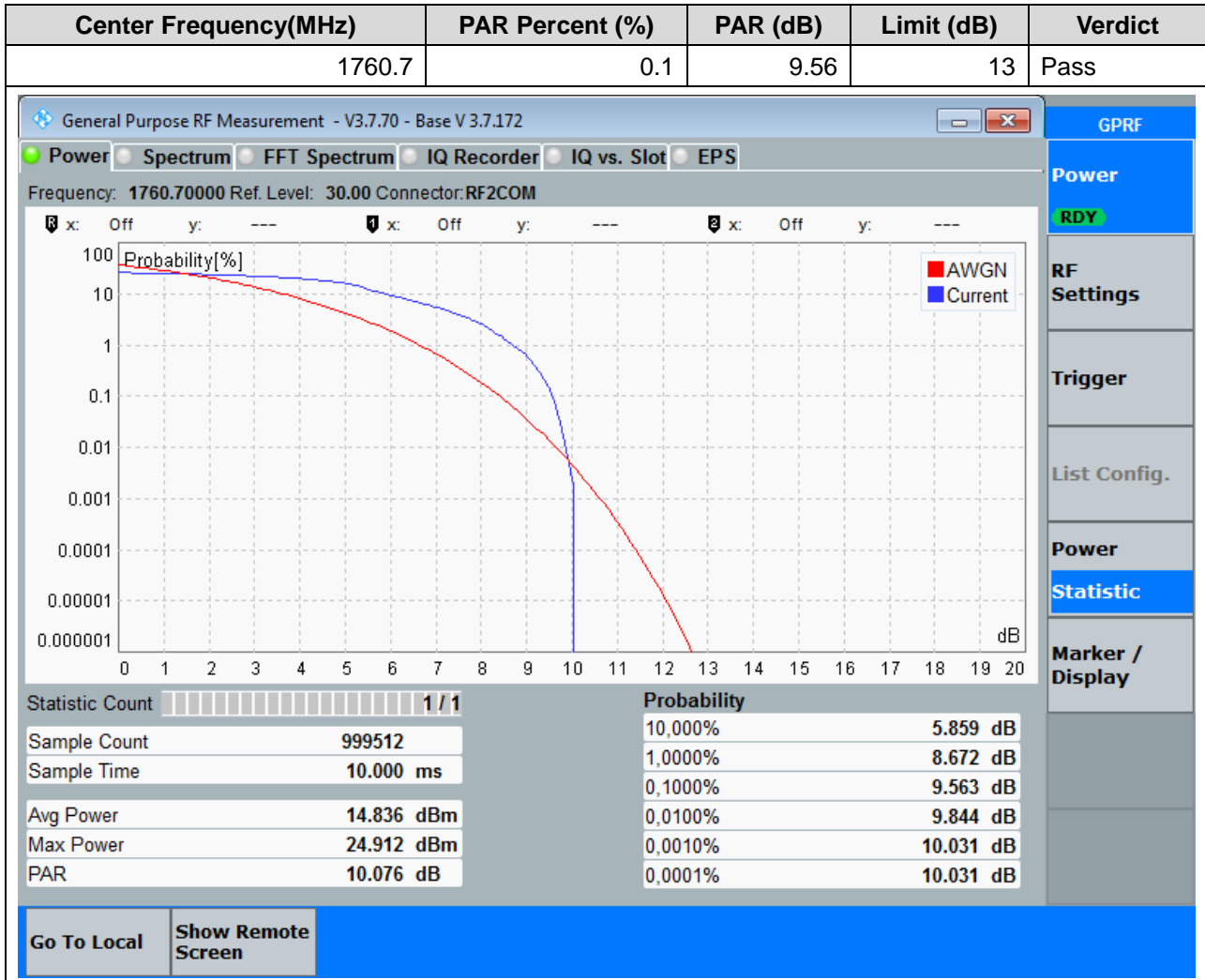
9. LTE-M1_Band66_16QAM_20MHz_5@0_Index low_Mid

9.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



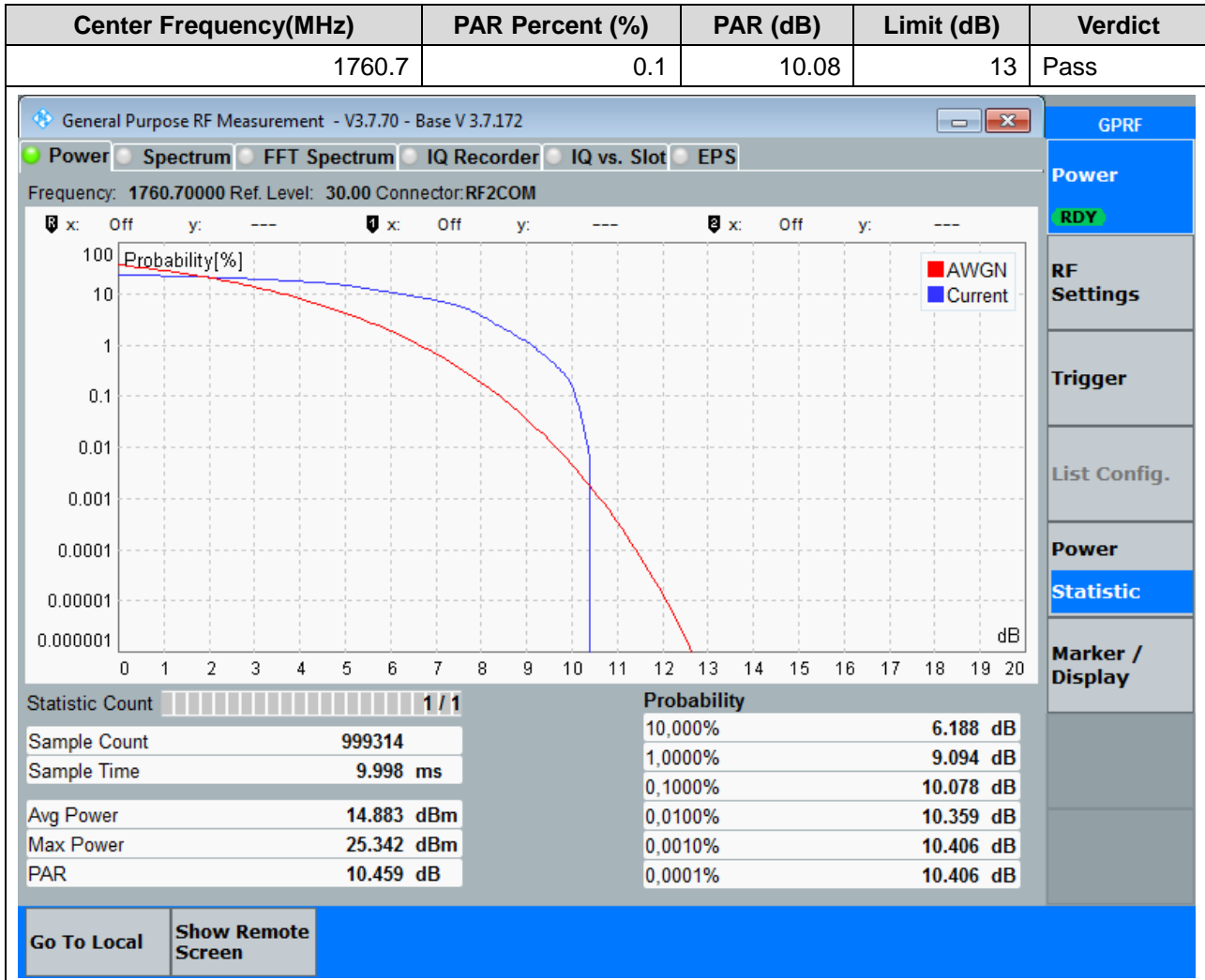
9. LTE-M1_Band66_QPSK_20MHz_6@0_Index low_High

9.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



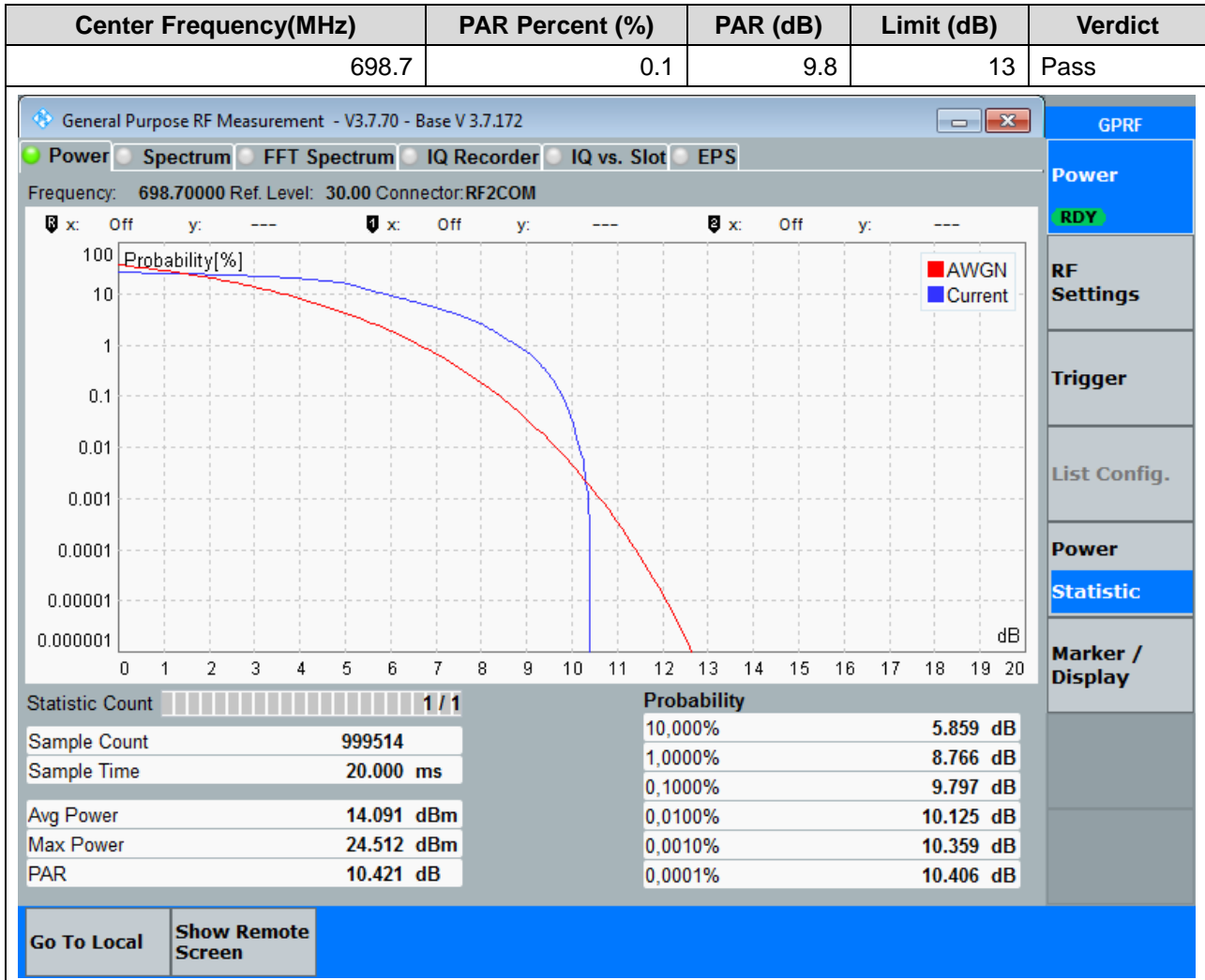
9. LTE-M1_Band66_16QAM_20MHz_5@0_Index low_High

9.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



10. LTE-M1_Band85_QPSK_10MHz_6@0_Index low_Low

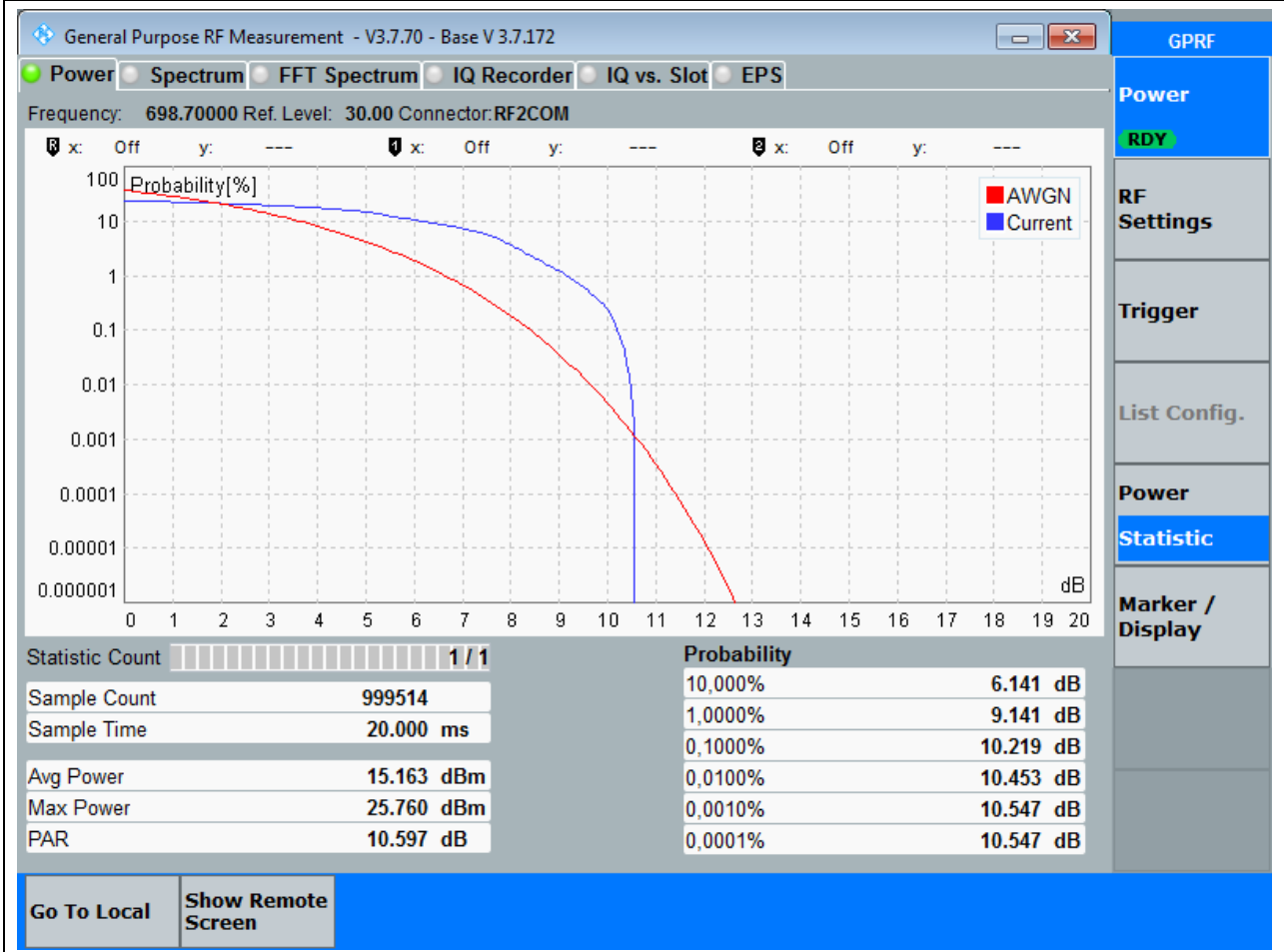
10.1. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



10. LTE-M1_Band85_16QAM_10MHz_5@0_Index low_Low

10.2. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

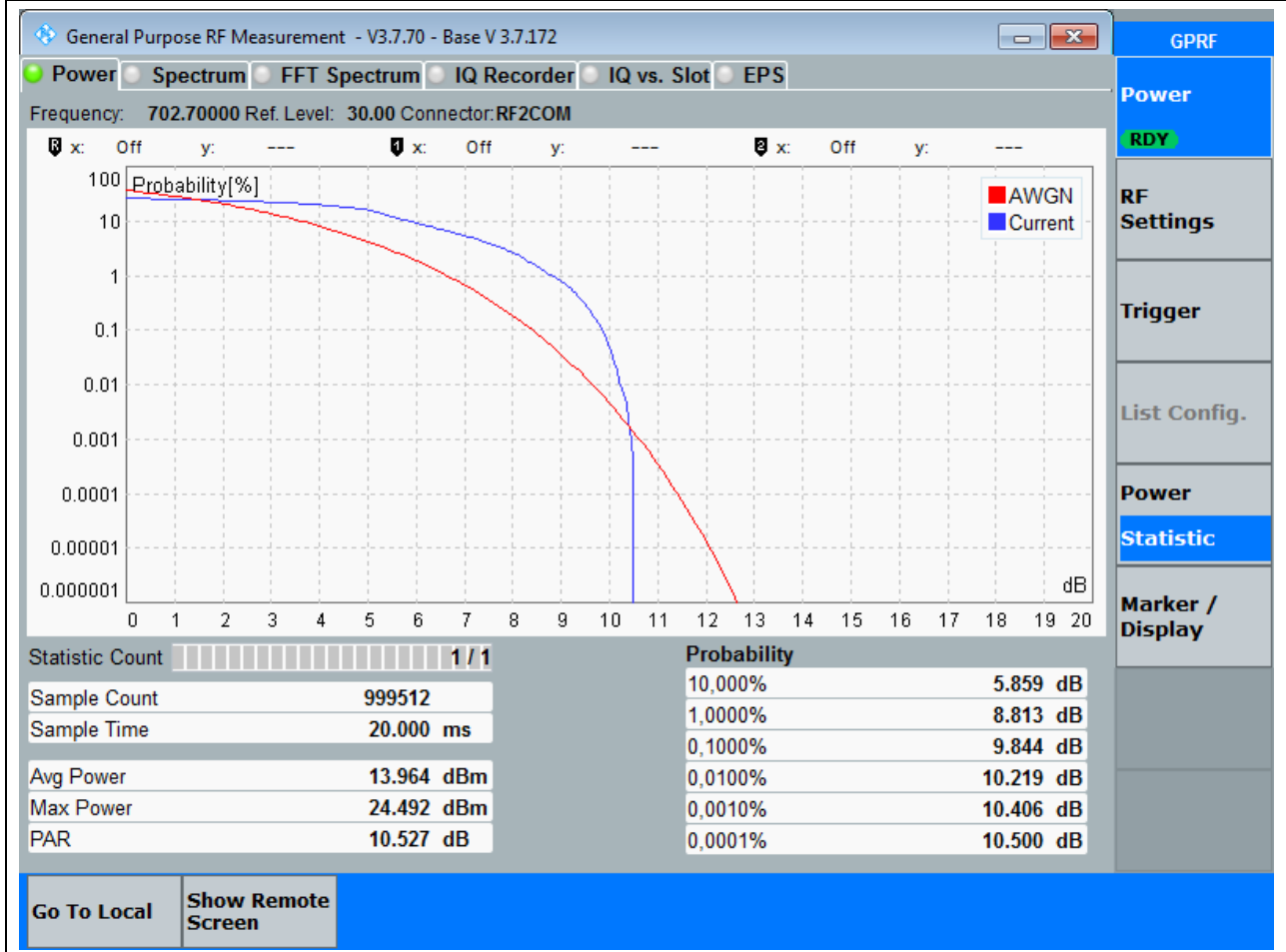
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
698.7	0.1	10.22	13	Pass



10. LTE-M1_Band85_QPSK_10MHz_6@0_Index low_Mid

10.3. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

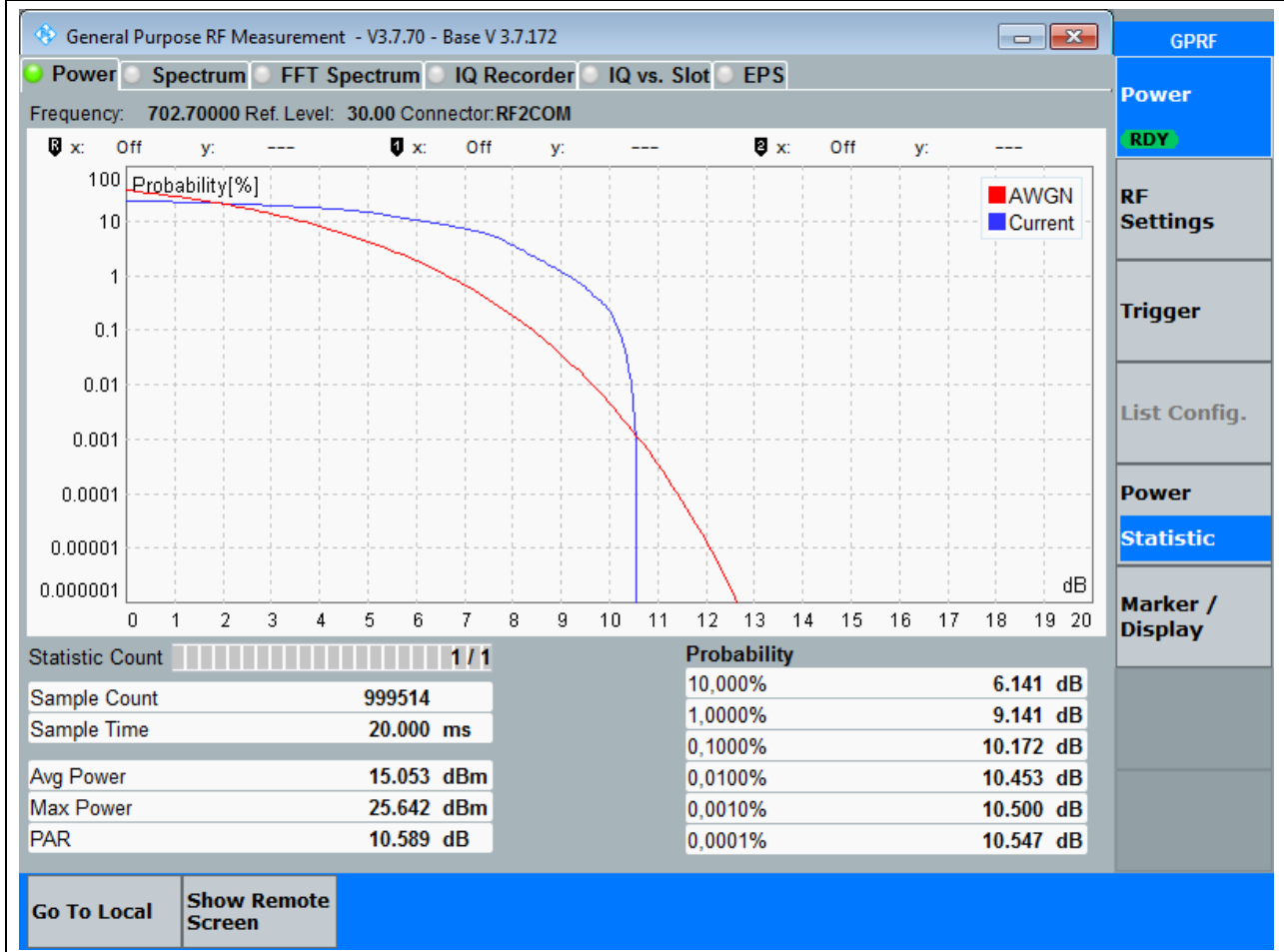
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
702.7	0.1	9.84	13	Pass



10. LTE-M1_Band85_16QAM_10MHz_5@0_Index low_Mid

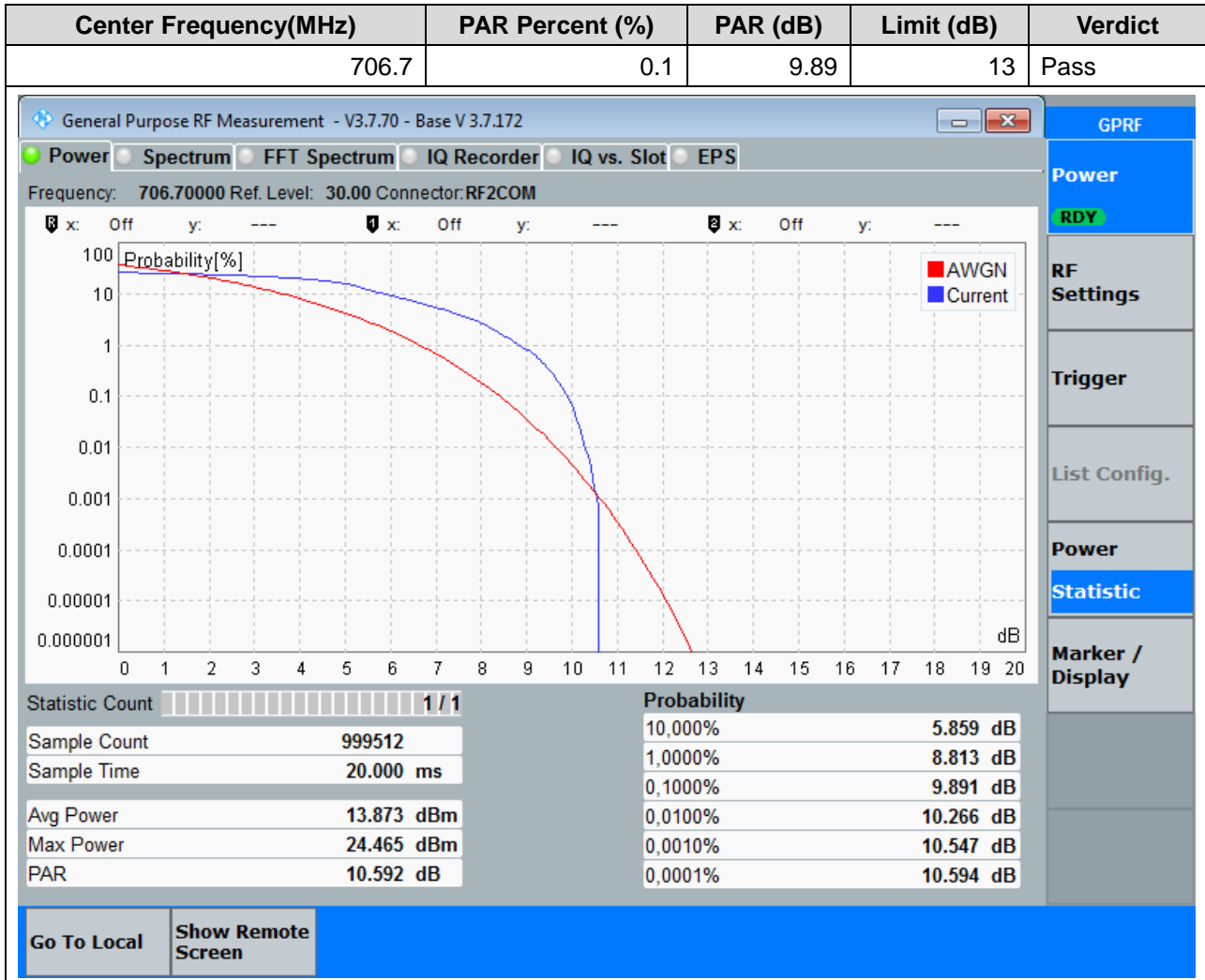
10.4. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Limit (dB)	Verdict
702.7	0.1	10.17	13	Pass



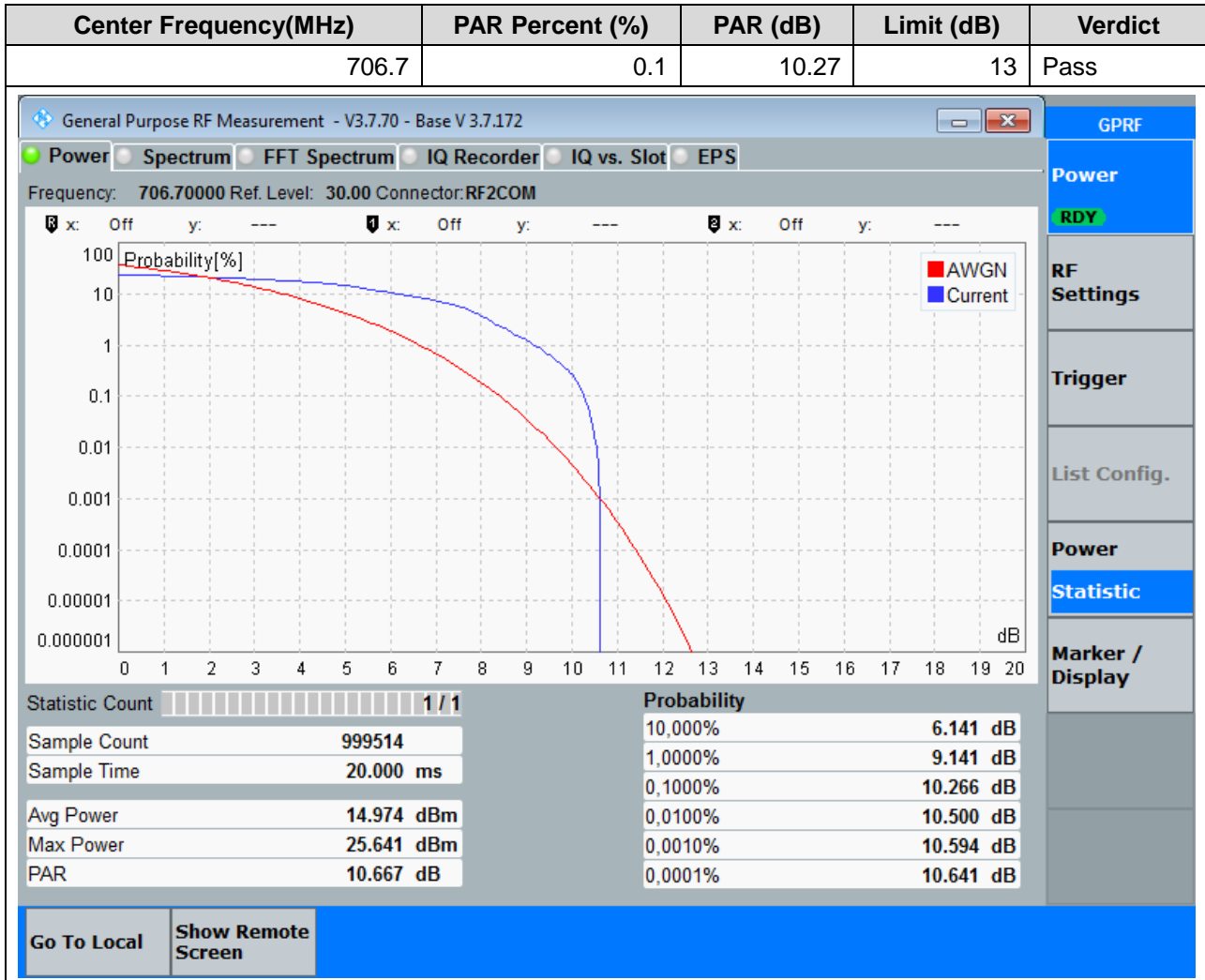
10. LTE-M1_Band85_QPSK_10MHz_6@0_Index low_High

10.5. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



10. LTE-M1_Band85_16QAM_10MHz_5@0_Index low_High

10.6. LTE-M1 Peak to Average Ratio_Part22-24-27(NTNV)



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