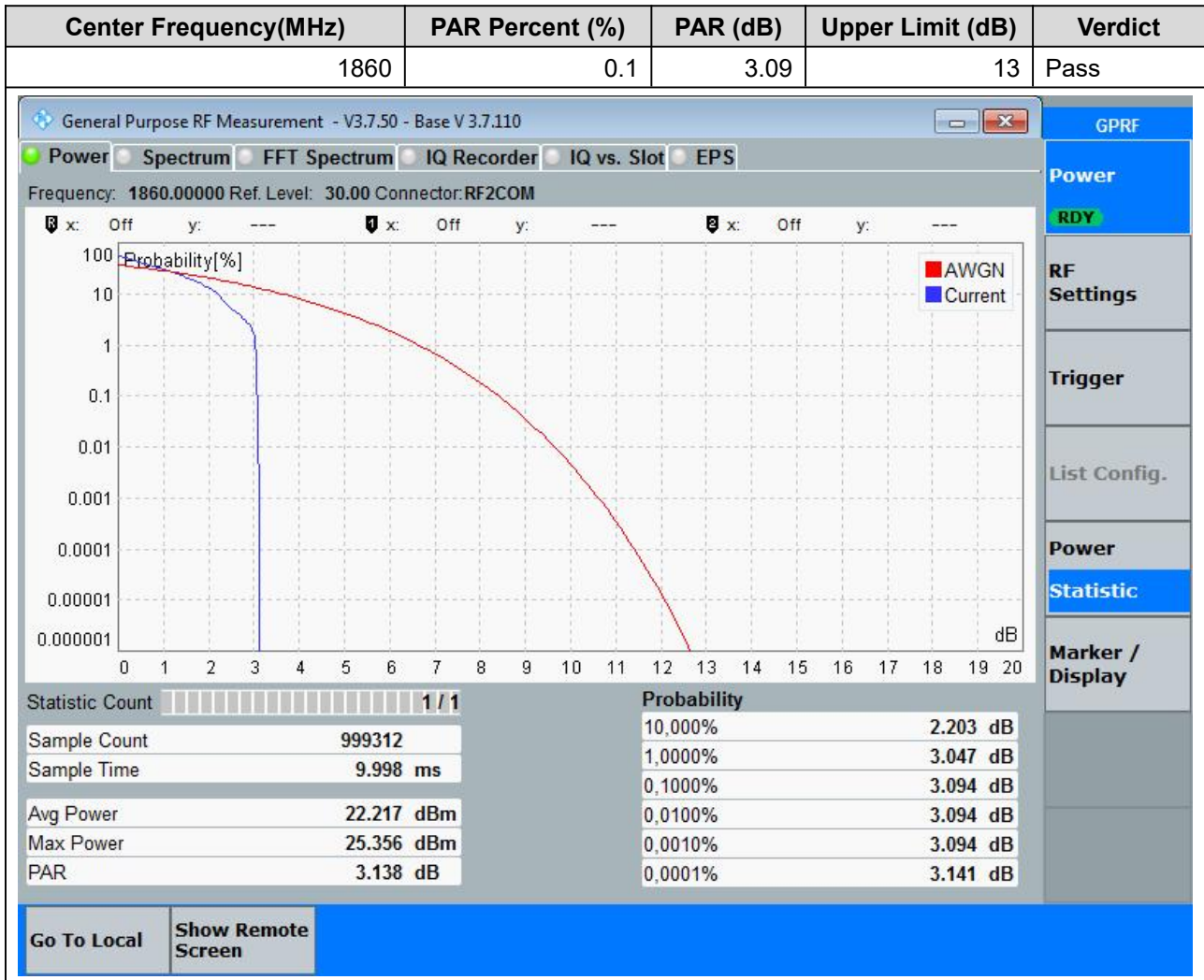


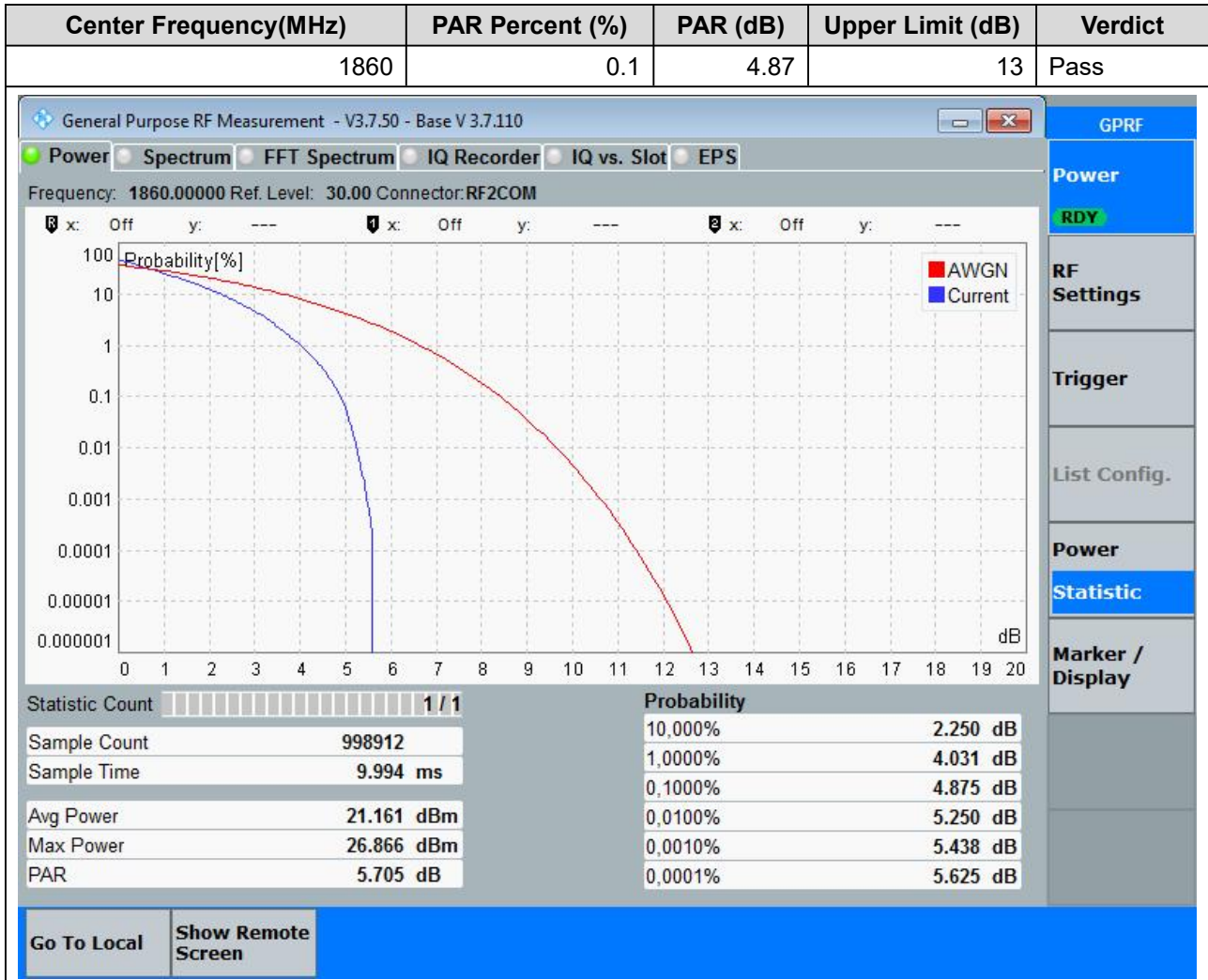
Annex A.2 Peak to Average Ratio

1. LTE_Band25

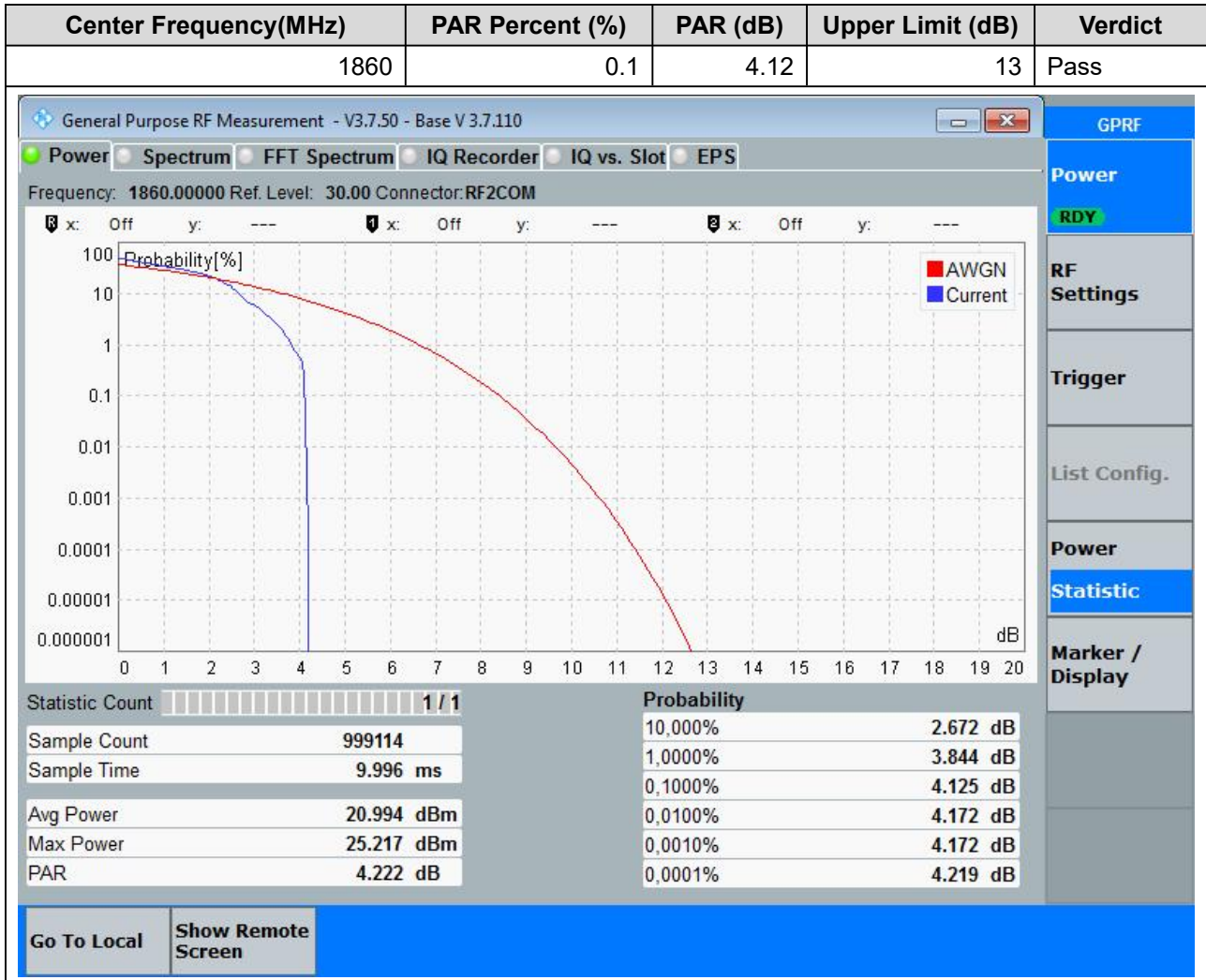
1.1 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:1, Channel:26140, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



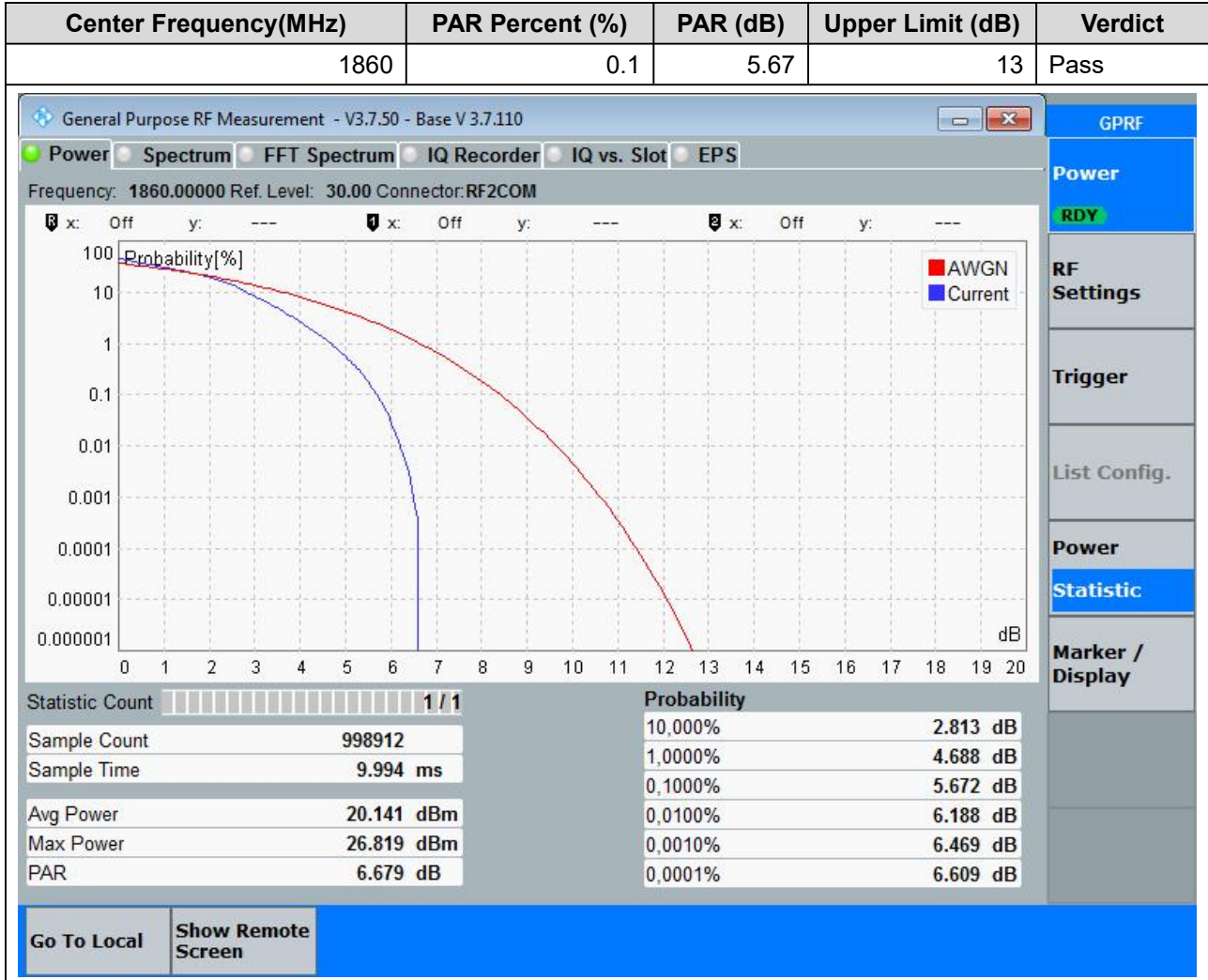
1.2 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:2, Channel:26140, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



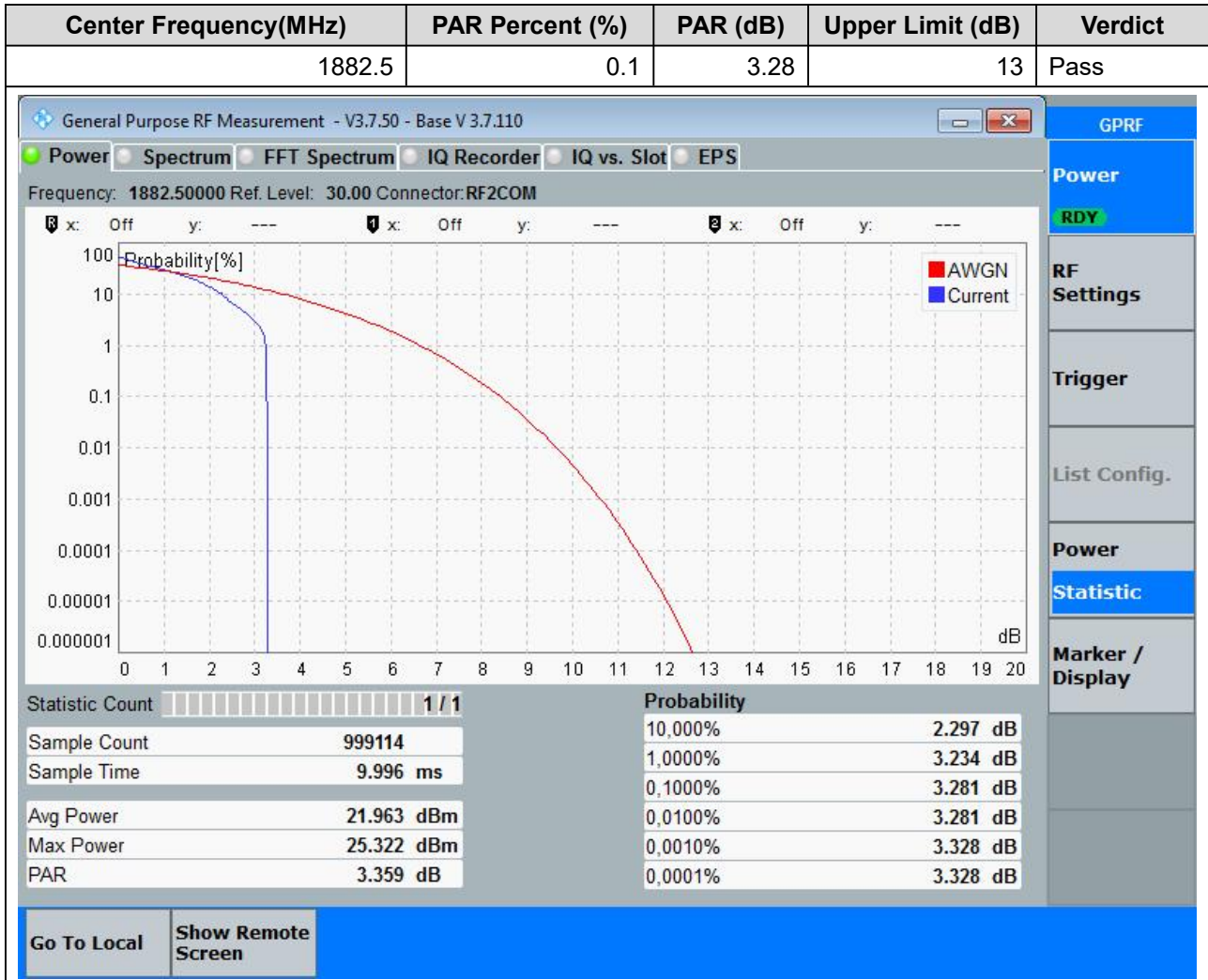
1.3 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:3, Channel:26140, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



1.4 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:4, Channel:26140, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



1.5 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:5, Channel:26365, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



1.6 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:6, Channel:26365, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1882.5	0.1	4.83	13	Pass

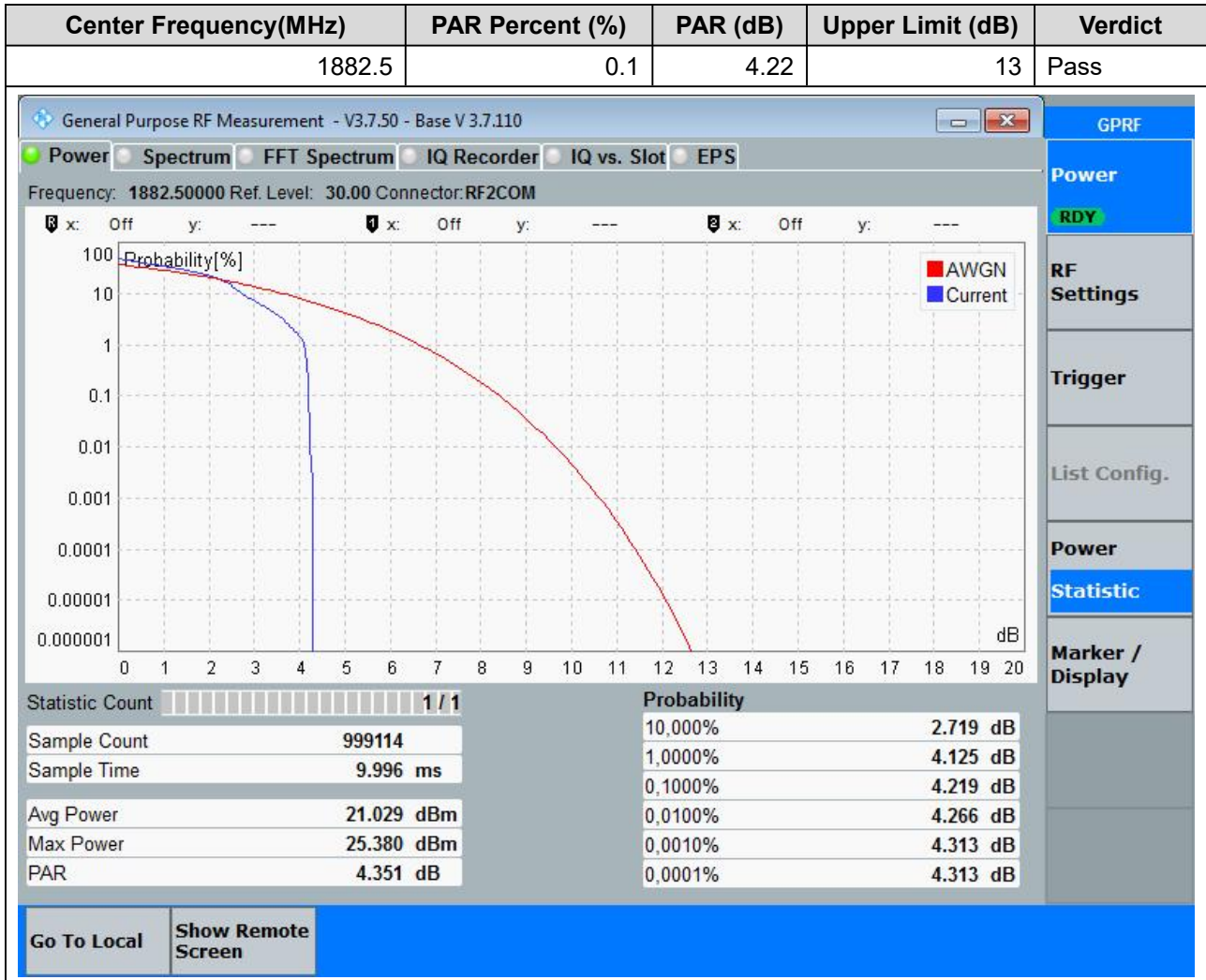
General Purpose RF Measurement - V3.7.50 - Base V 3.7.110
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 1882.50000 Ref. Level: 30.00 Connector: RF2COM

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

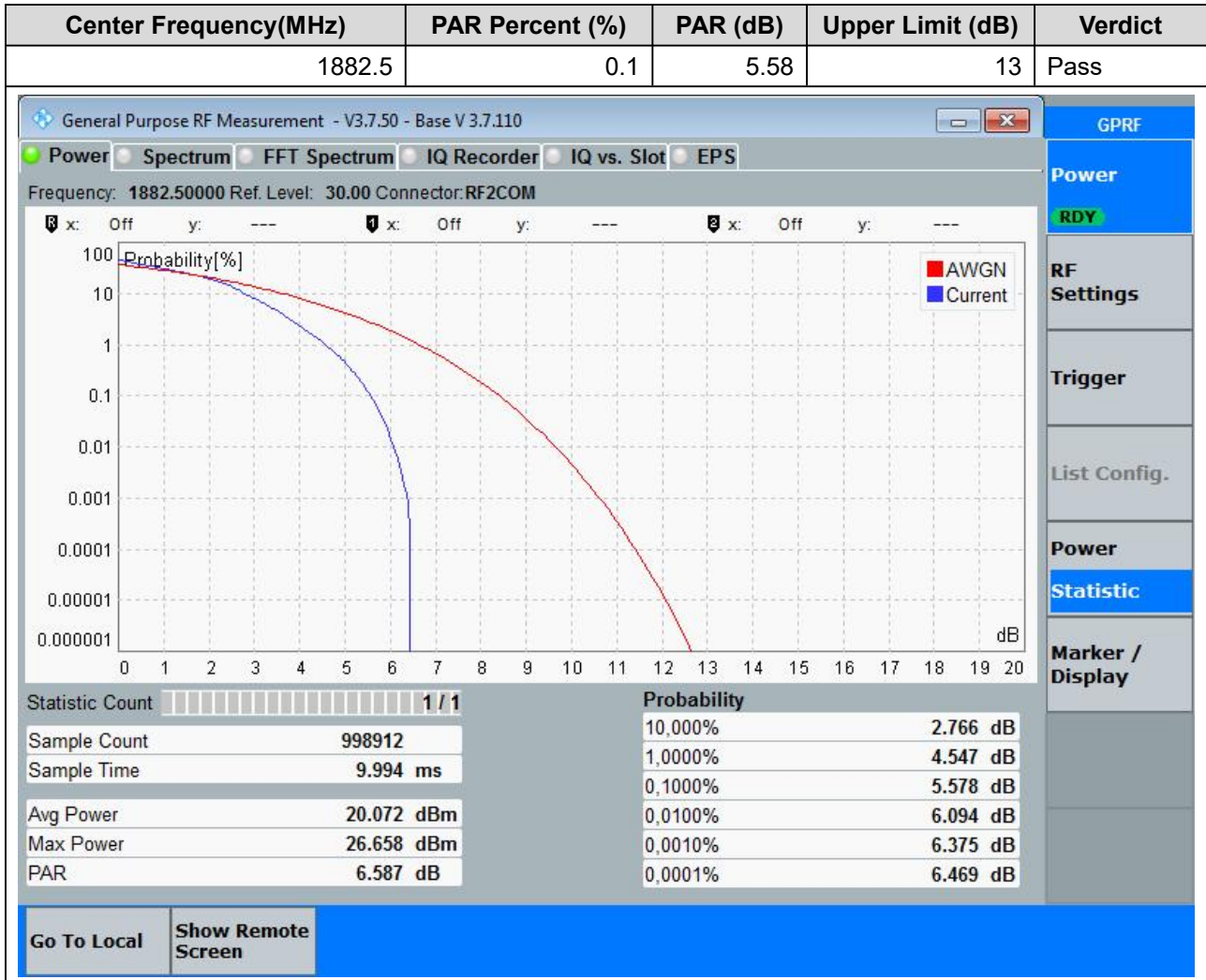
Statistic Count		Probability	
Sample Count	998912	10,000%	2.250 dB
Sample Time	9.994 ms	1,0000%	3.938 dB
Avg Power	21.075 dBm	0,1000%	4.828 dB
Max Power	26.734 dBm	0,0100%	5.203 dB
PAR	5.659 dB	0,0010%	5.484 dB
		0,0001%	5.625 dB

Go To Local
Show Remote Screen

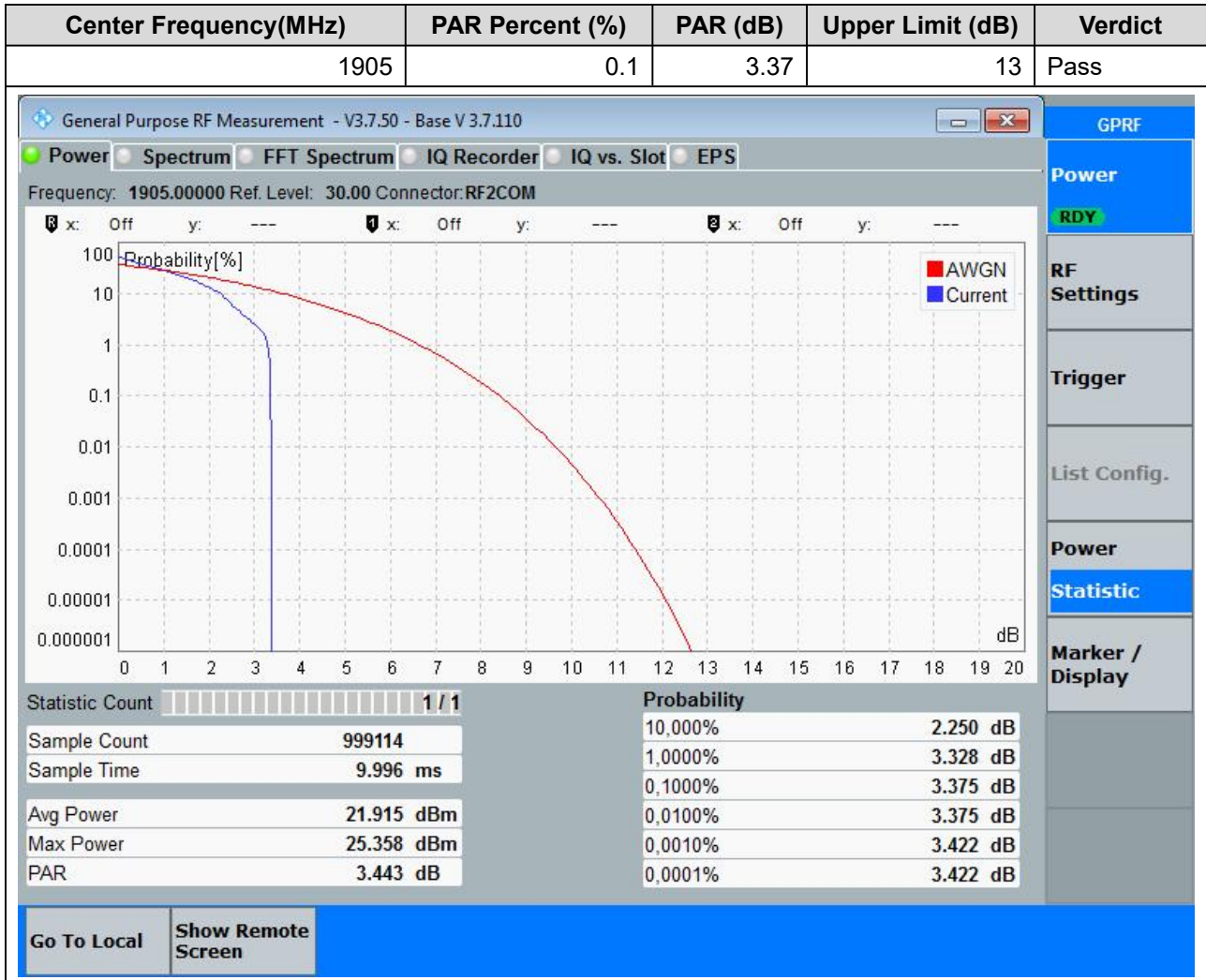
1.7 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:7, Channel:26365, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



1.8 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:8, Channel:26365, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



1.9 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:9, Channel:26590, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



1.10 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:10, Channel:26590, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1905	0.1	4.83	13	Pass

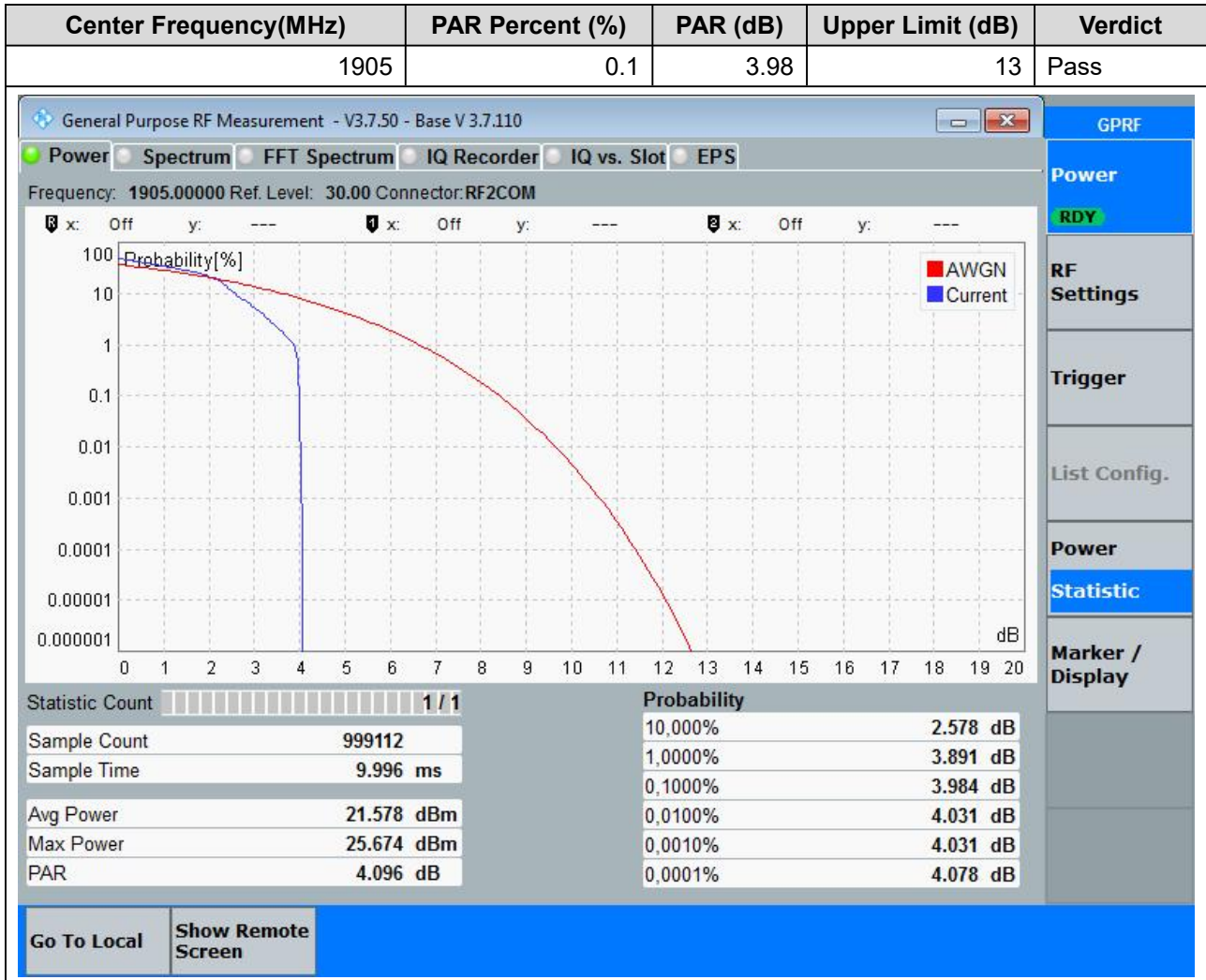
General Purpose RF Measurement - V3.7.50 - Base V 3.7.110
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 1905.00000 Ref. Level: 30.00 Connector: RF2COM

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

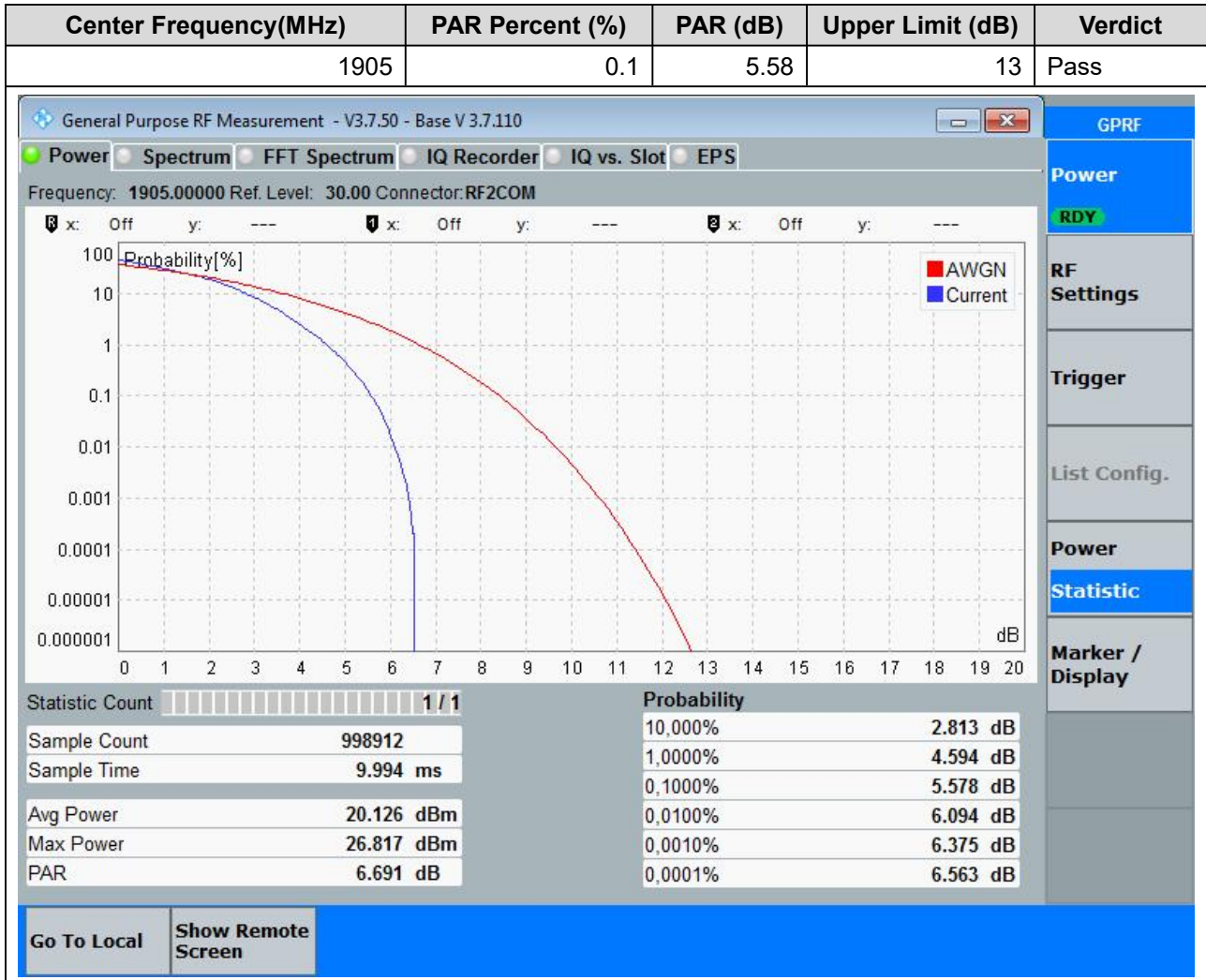
Statistic Count		Probability	
Sample Count	998912	10,000%	2.250 dB
Sample Time	9.994 ms	1,0000%	3.984 dB
Avg Power	21.063 dBm	0,1000%	4.828 dB
Max Power	26.769 dBm	0,0100%	5.203 dB
PAR	5.706 dB	0,0010%	5.438 dB
		0,0001%	5.578 dB

Go To Local
Show Remote Screen

1.11 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:11, Channel:26590, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



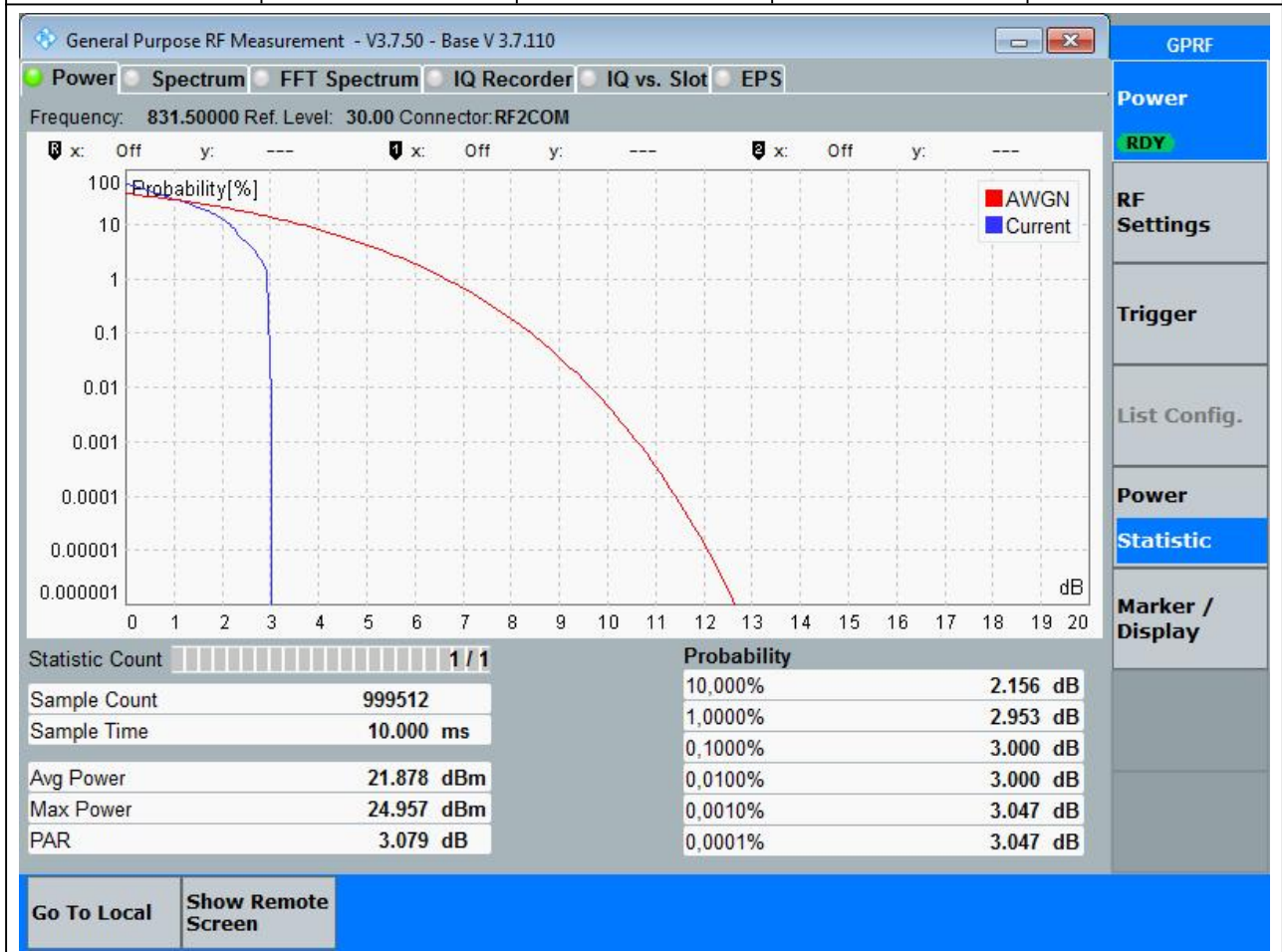
1.12 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:12, Channel:26590, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



2. LTE_Band26(part22)

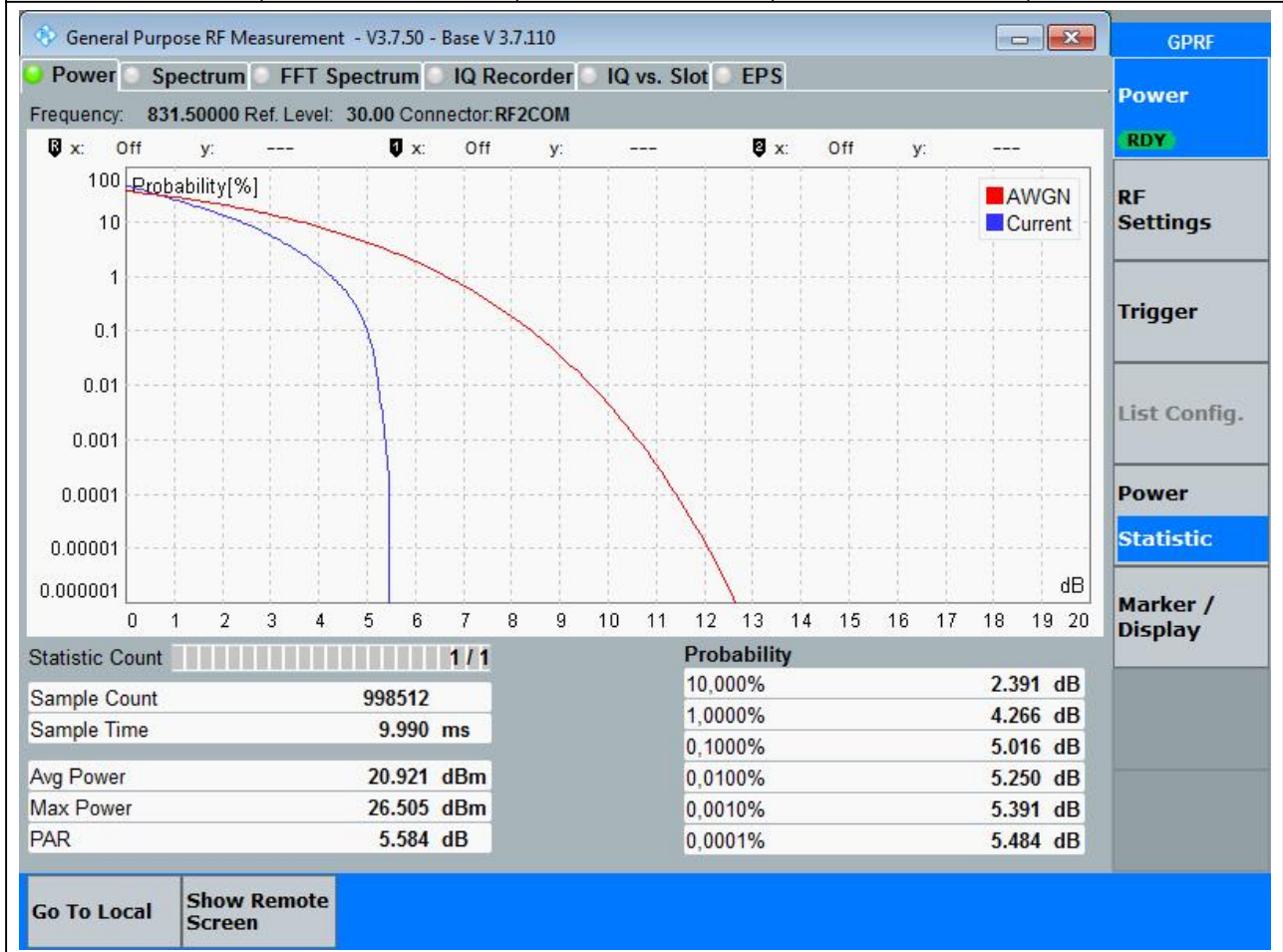
2.1 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:1, Channel:26865, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
831.5	0.1	3	13	Pass



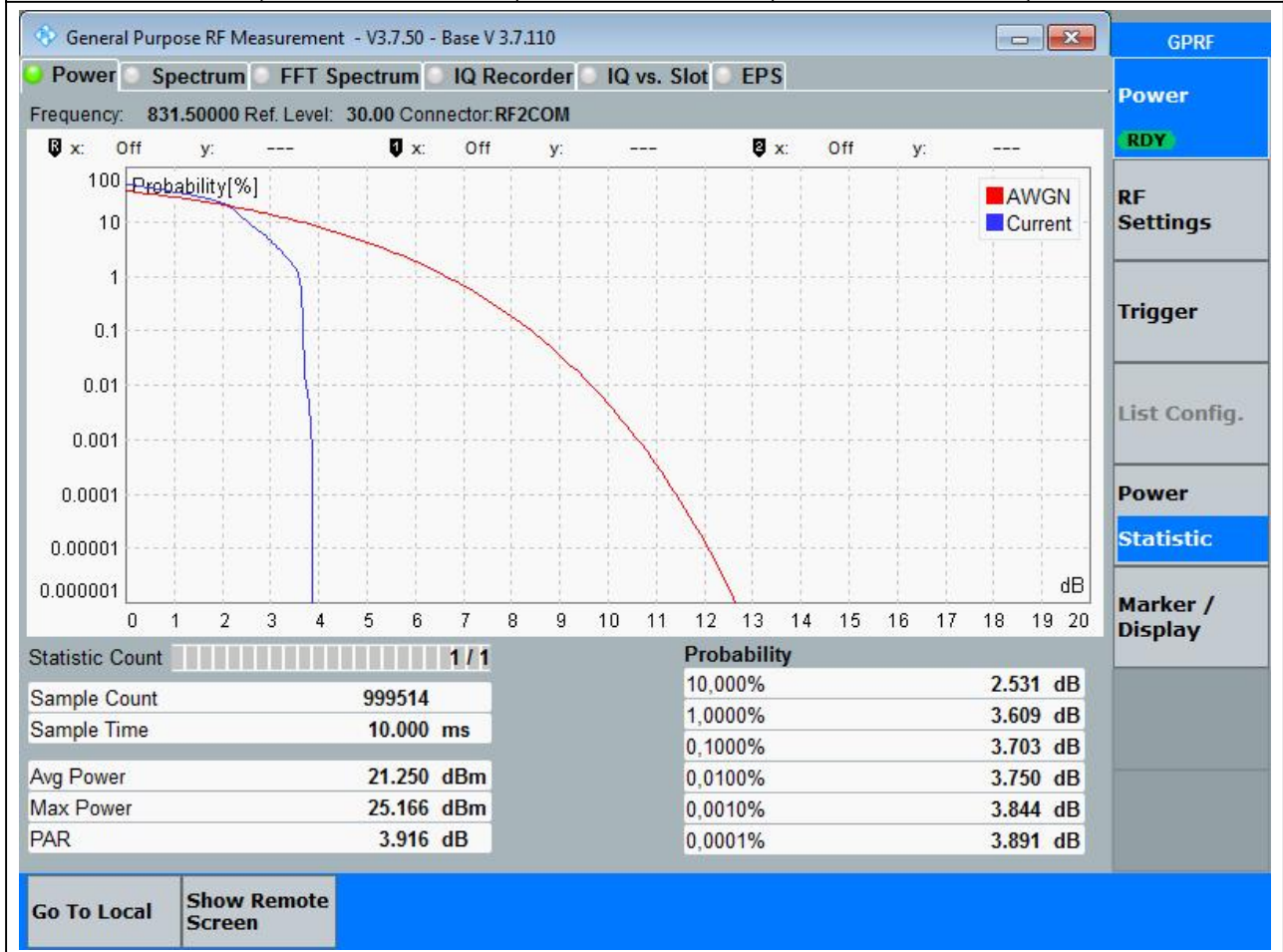
2.2 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:2, Channel:26865, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
831.5	0.1	5.02	13	Pass



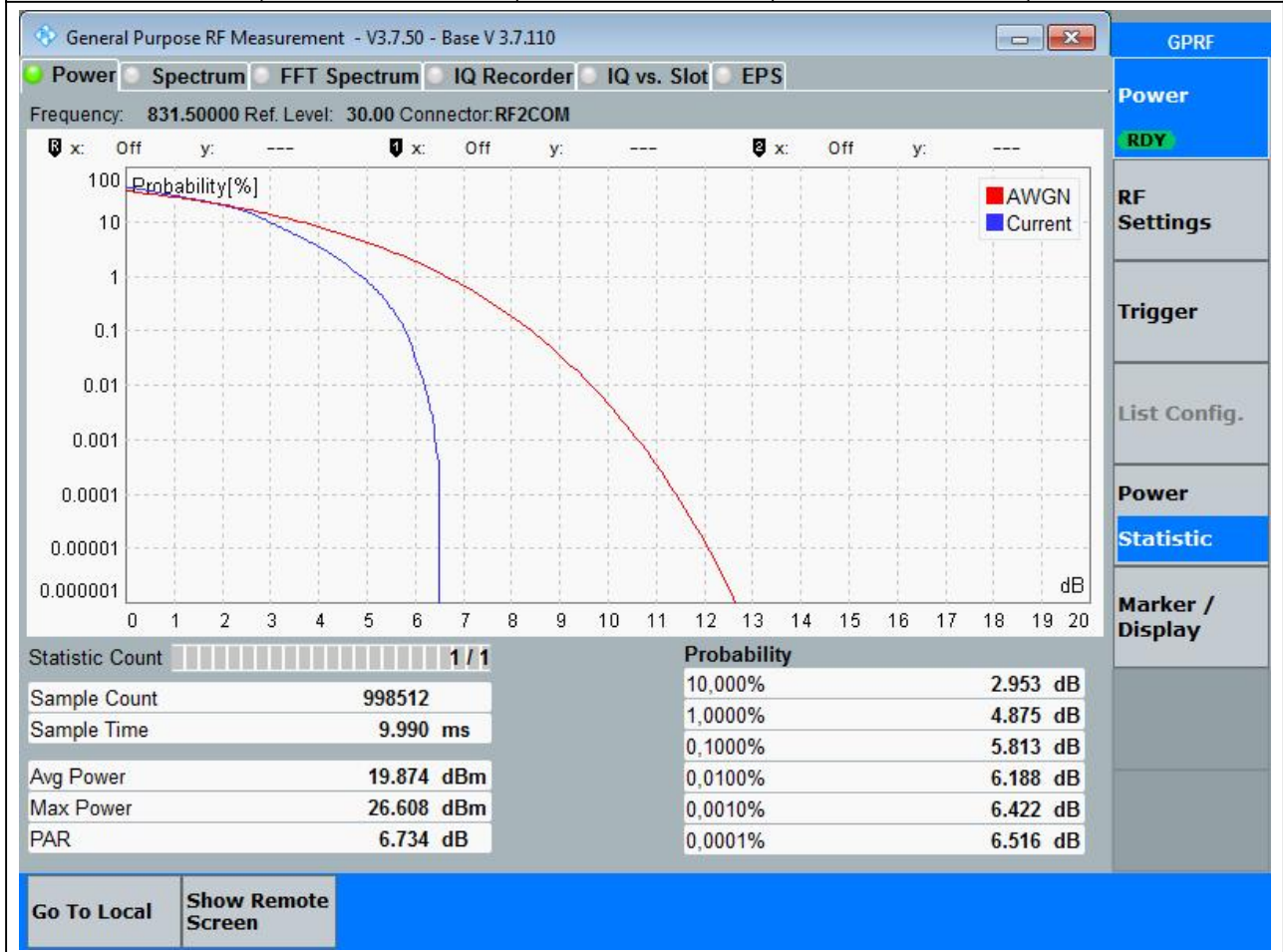
2.3 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:3, Channel:26865, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
831.5	0.1	3.7	13	Pass



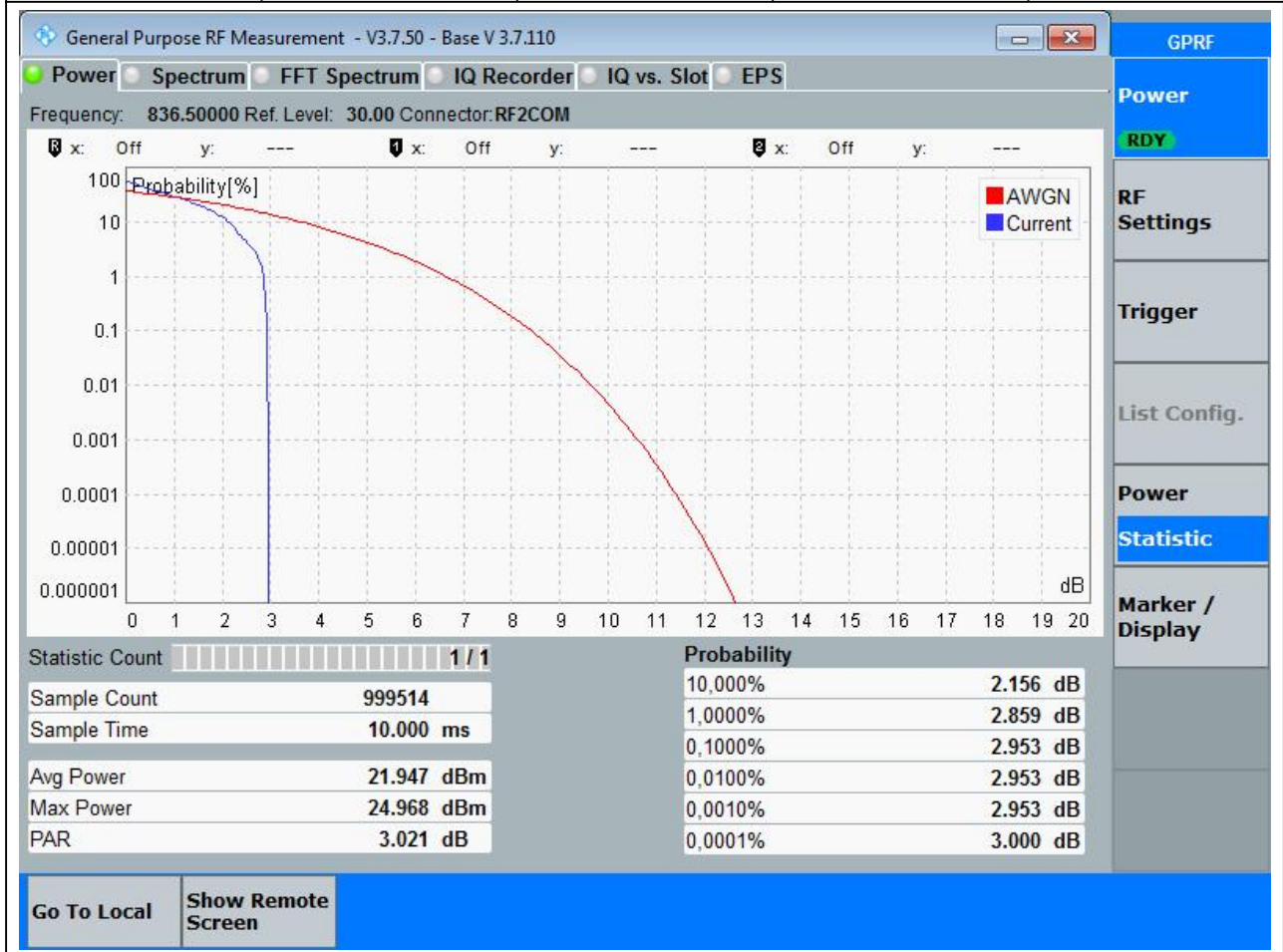
2.4 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:4, Channel:26865, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
831.5	0.1	5.81	13	Pass



2.5 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:5, Channel:26915, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	2.95	13	Pass



2.6 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:6, Channel:26915, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	5.02	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Frequency: 836.50000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Probability[%]

Statistic Count	
Sample Count	998512
Sample Time	9.990 ms
Avg Power	20.845 dBm
Max Power	26.309 dBm
PAR	5.464 dB

Probability	
10,000%	2.438 dB
1,0000%	4.313 dB
0,1000%	5.016 dB
0,0100%	5.203 dB
0,0010%	5.391 dB
0,0001%	5.438 dB

Go To Local

Show Remote Screen

Power
RDY

RF Settings

Trigger

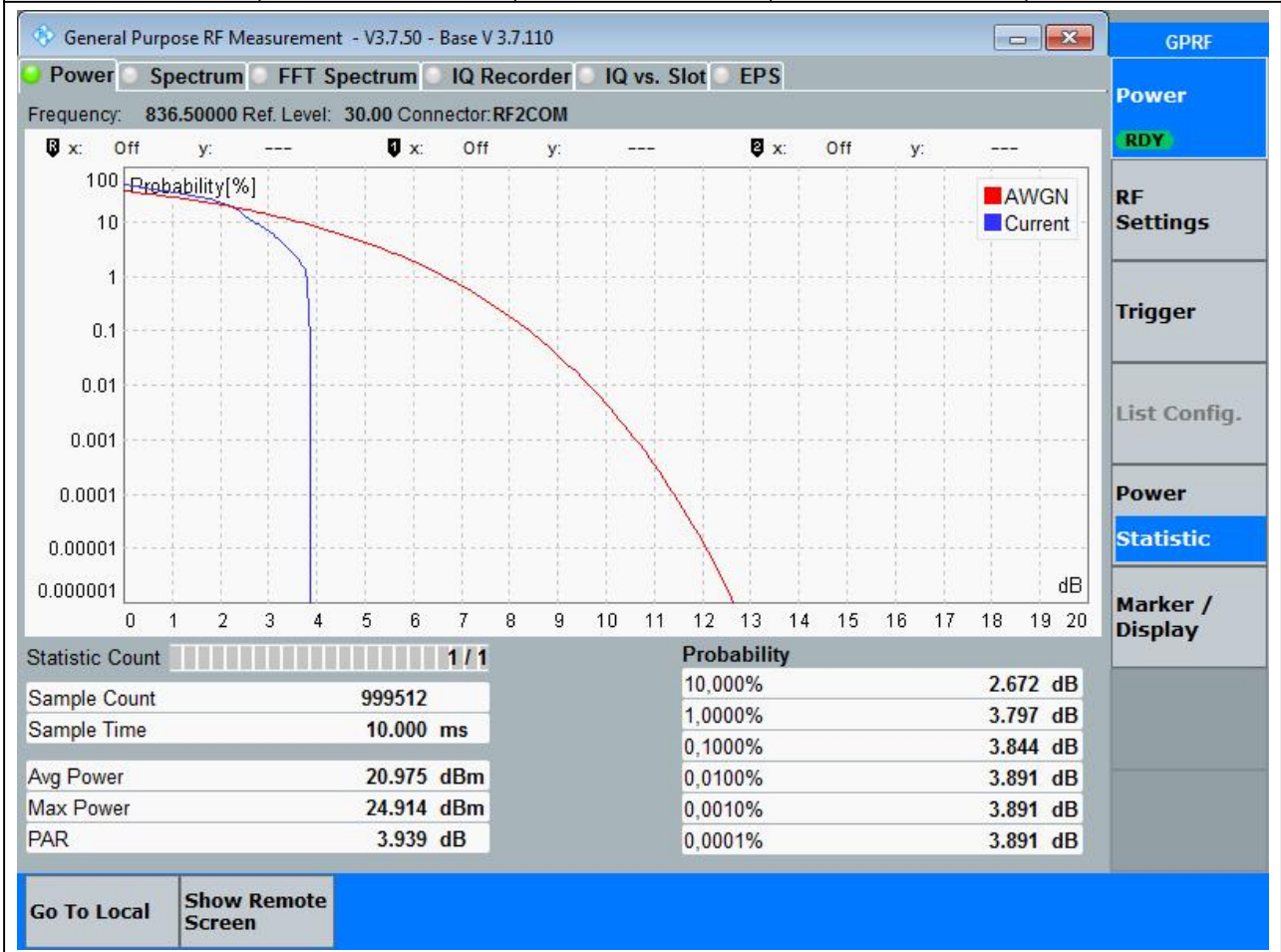
List Config.

Power
Statistic

Marker / Display

2.7 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:7, Channel:26915, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	3.84	13	Pass



2.8 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:8, Channel:26915, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	5.81	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 836.50000 Ref. Level: 30.00 Connector:RF2COM

GPRF

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

AWGN (red line)
 Current (blue line)

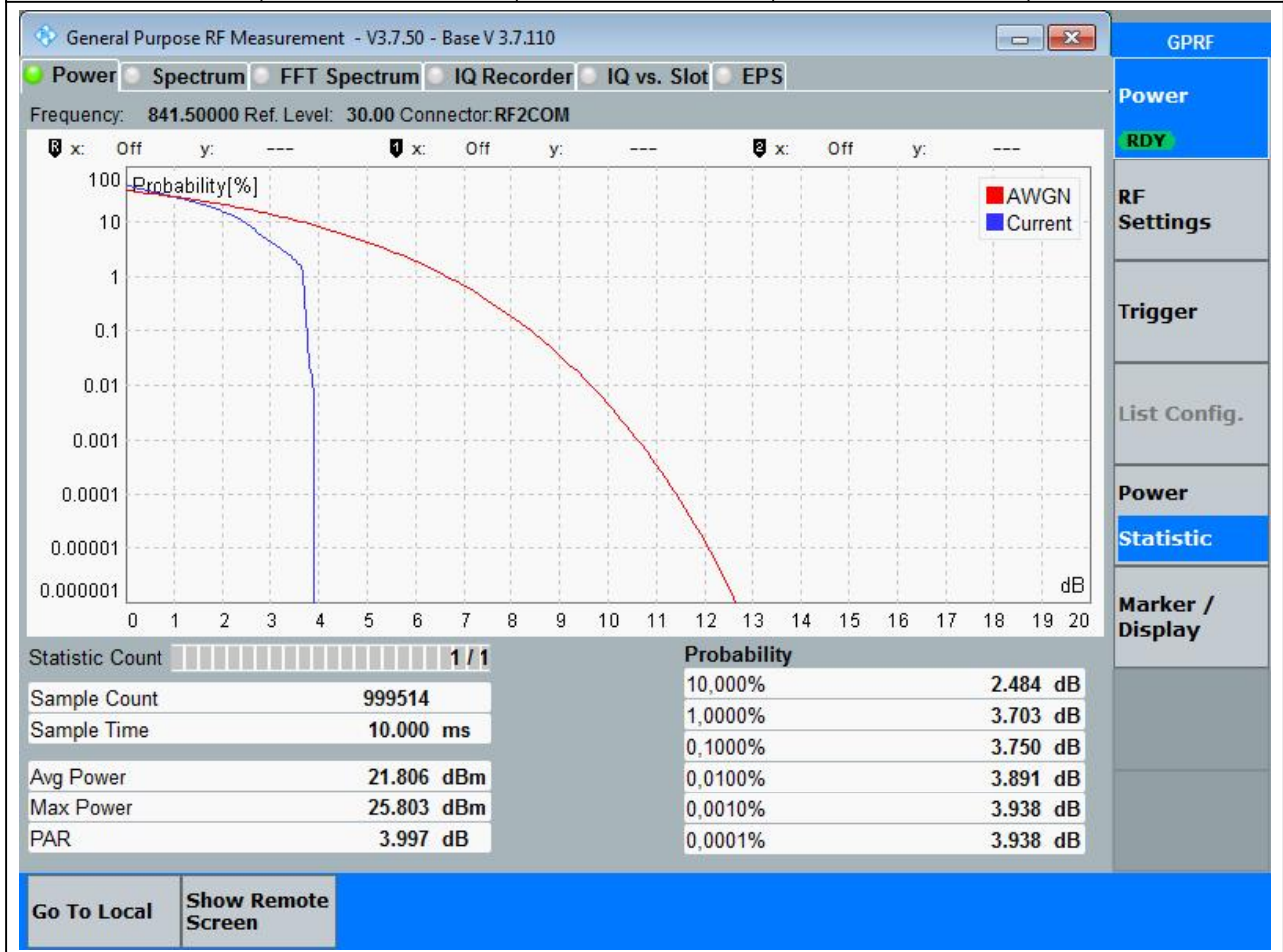
Statistic Count		Probability	
Sample Count	998512	10,000%	3.000 dB
Sample Time	9.990 ms	1,0000%	4.922 dB
Avg Power	19.803 dBm	0,1000%	5.813 dB
Max Power	26.524 dBm	0,0100%	6.141 dB
PAR	6.721 dB	0,0010%	6.422 dB
		0,0001%	6.656 dB

Go To Local Show Remote Screen

Marker / Display

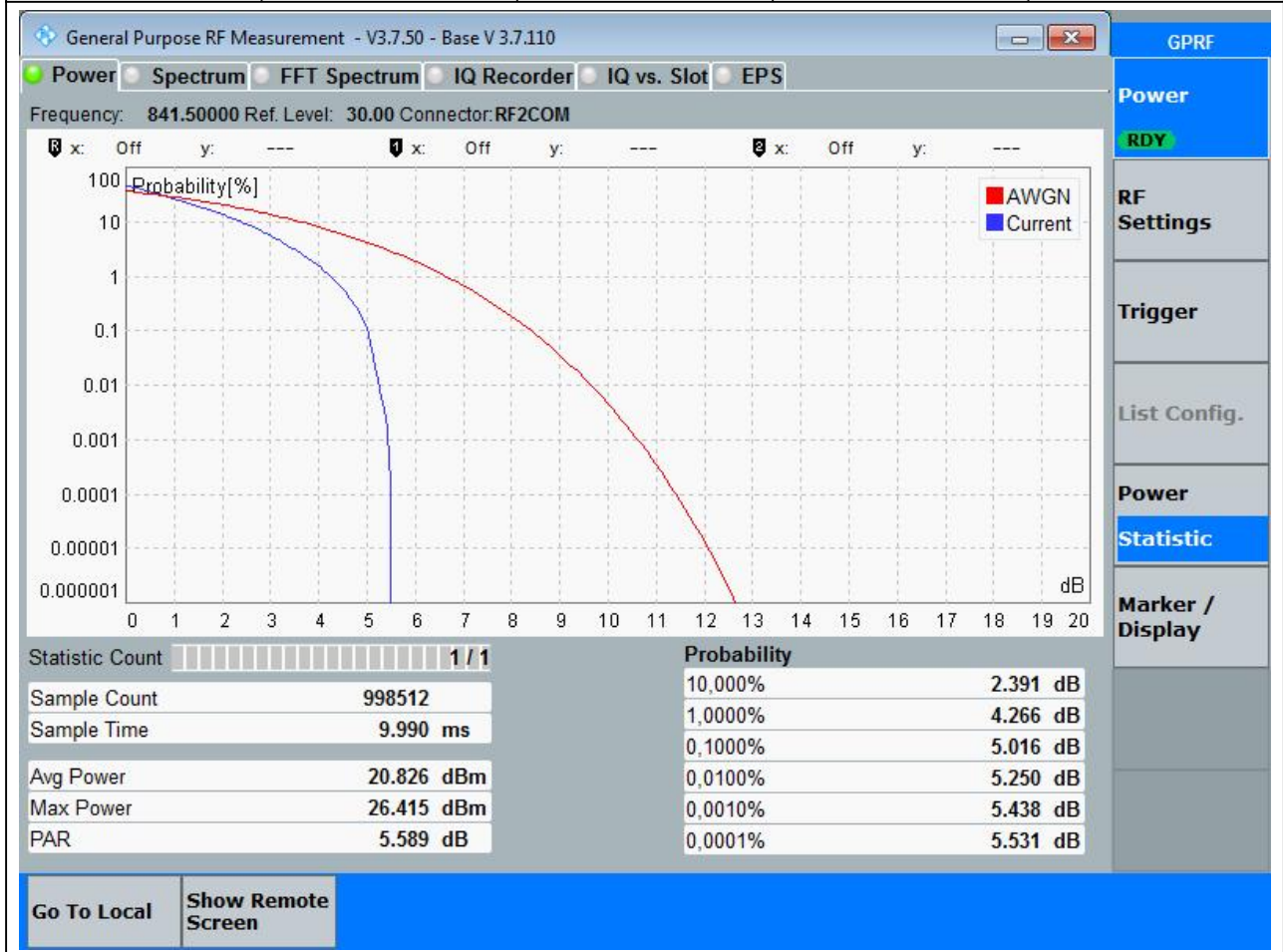
2.9 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:9, Channel:26965, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
841.5	0.1	3.75	13	Pass



2.10 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:10, Channel:26965, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
841.5	0.1	5.02	13	Pass



2.11 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:11, Channel:26965, Bandwidth:15, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
841.5	0.1	4.59	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Frequency: 841.50000 Ref. Level: 30.00 Connector:RF2COM

GPRF

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

Statistic Count	
Sample Count	999512
Sample Time	10.000 ms
Avg Power	21.071 dBm
Max Power	25.757 dBm
PAR	4.686 dB

Probability	
10,000%	2.859 dB
1,0000%	4.500 dB
0,1000%	4.594 dB
0,0100%	4.641 dB
0,0010%	4.641 dB
0,0001%	4.641 dB

Go To Local Show Remote Screen

Power

RDY

RF Settings

Trigger

List Config.

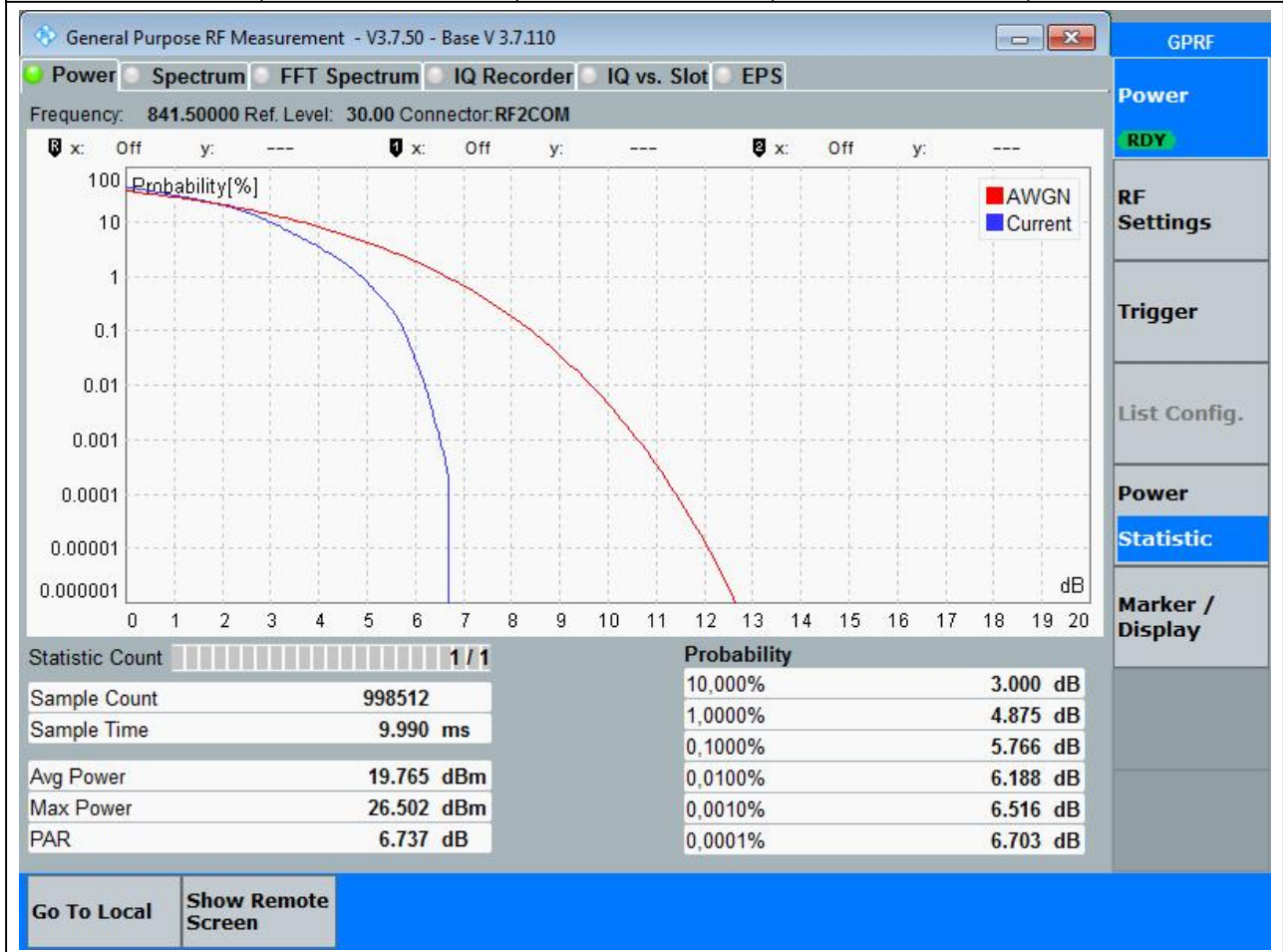
Power

Statistic

Marker / Display

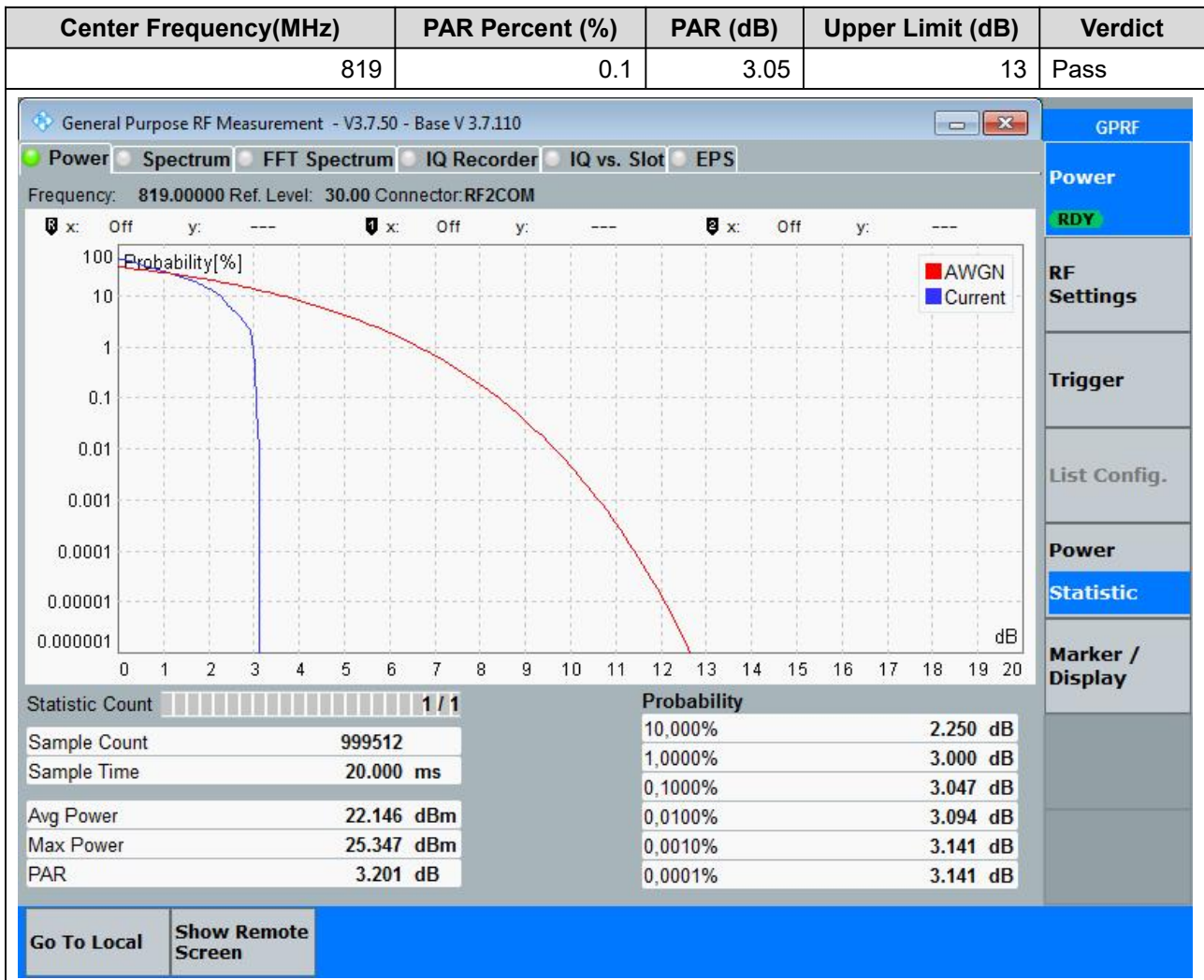
2.12 LTE Peak to Average Ratio_Part22-24-27(LTNV)(Subtest:12, Channel:26965, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
841.5	0.1	5.77	13	Pass



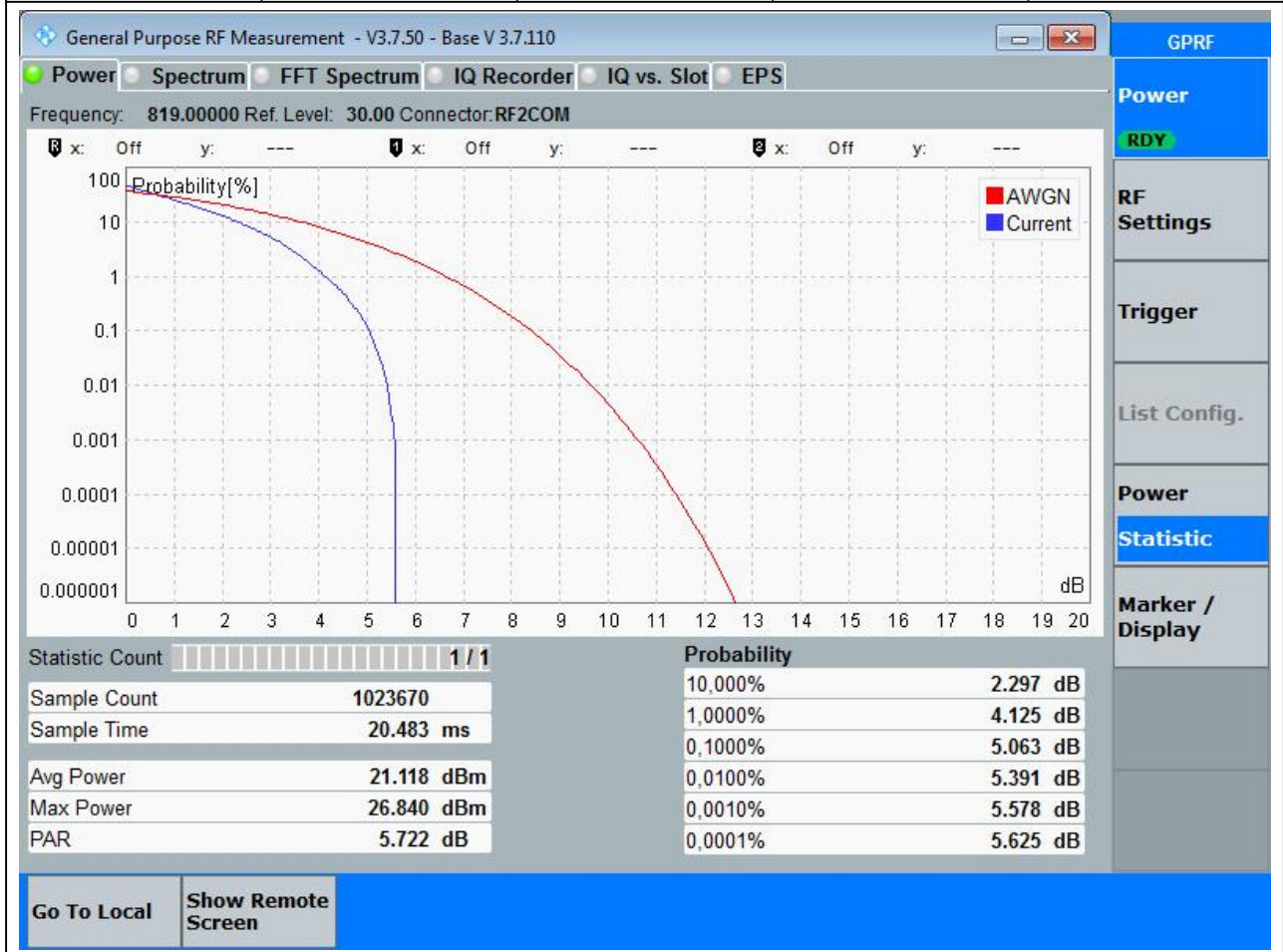
3. LTE_Band26(part90)

3.1 LTE Peak to Average Ratio_Part90(LTNV)(Subtest:1, Channel:26740, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



3.2 LTE Peak to Average Ratio_Part90(LTNV)(Subtest:2, Channel:26740, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
819	0.1	5.06	13	Pass



3.3 LTE Peak to Average Ratio_Part90(LTNV)(Subtest:3, Channel:26740, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
819	0.1	3.98	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Frequency: 819.00000 Ref. Level: 30.00 Connector:RF2COM

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display

Statistic Count	
Sample Count	999112
Sample Time	19.992 ms
Avg Power	21.179 dBm
Max Power	25.434 dBm
PAR	4.255 dB

Probability	
10,000%	2.719 dB
1,0000%	3.891 dB
0,1000%	3.984 dB
0,0100%	4.078 dB
0,0010%	4.219 dB
0,0001%	4.219 dB

Go To Local
Show Remote Screen

3.4 LTE Peak to Average Ratio_Part90(LTNV)(Subtest:4, Channel:26740, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
819	0.1	5.81	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 819.00000 Ref. Level: 30.00 Connector:RF2COM

GPRF

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

Legend: ■ AWGN ■ Current

Statistic Count	
Sample Count	1024090
Sample Time	20.492 ms
Avg Power	20.237 dBm
Max Power	27.004 dBm
PAR	6.767 dB

Probability	
10,000%	2.906 dB
1,0000%	4.781 dB
0,1000%	5.813 dB
0,0100%	6.328 dB
0,0010%	6.609 dB
0,0001%	6.703 dB

Go To Local
Show Remote Screen

Power

RDY

RF Settings

Trigger

List Config.

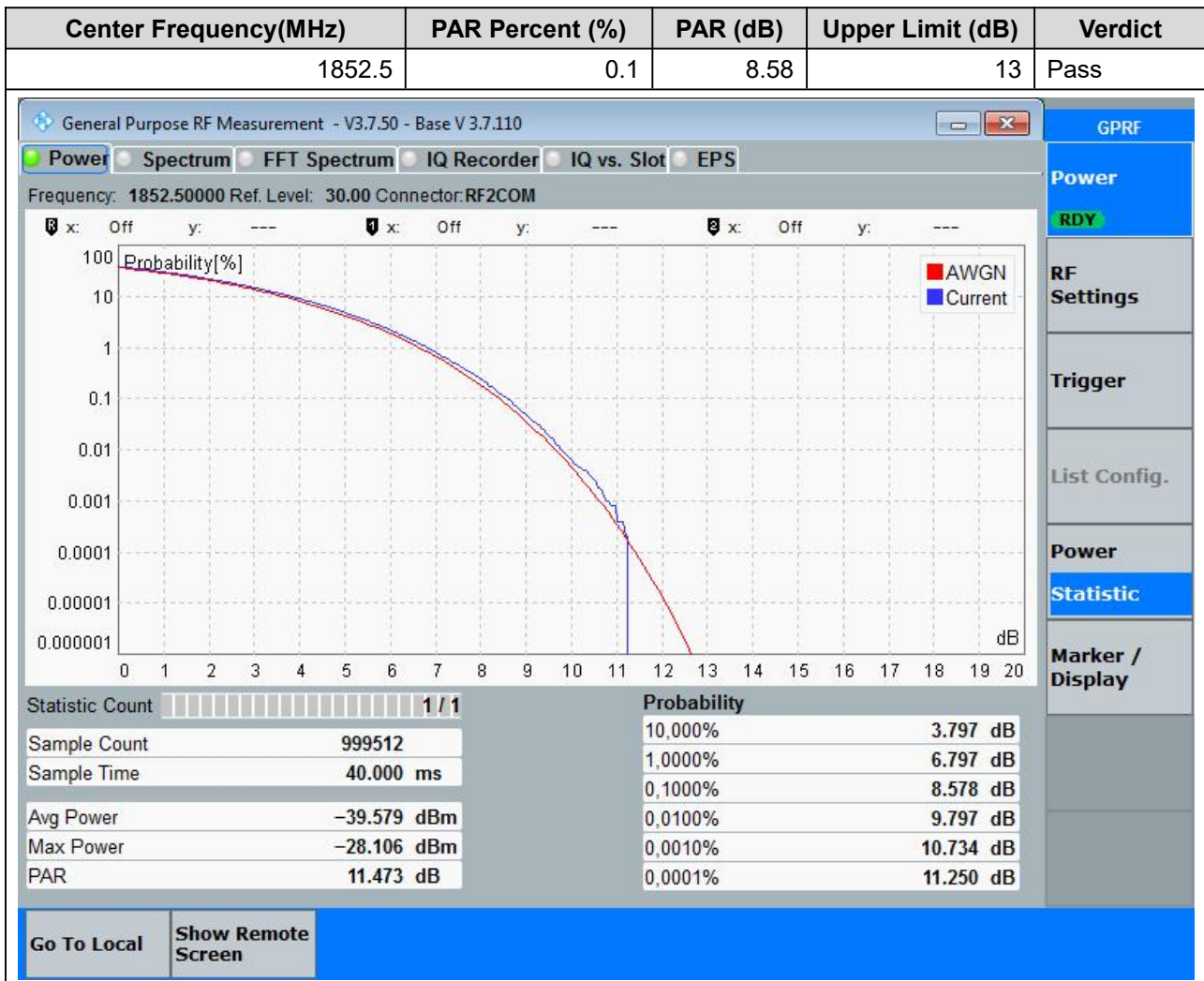
Power

Statistic

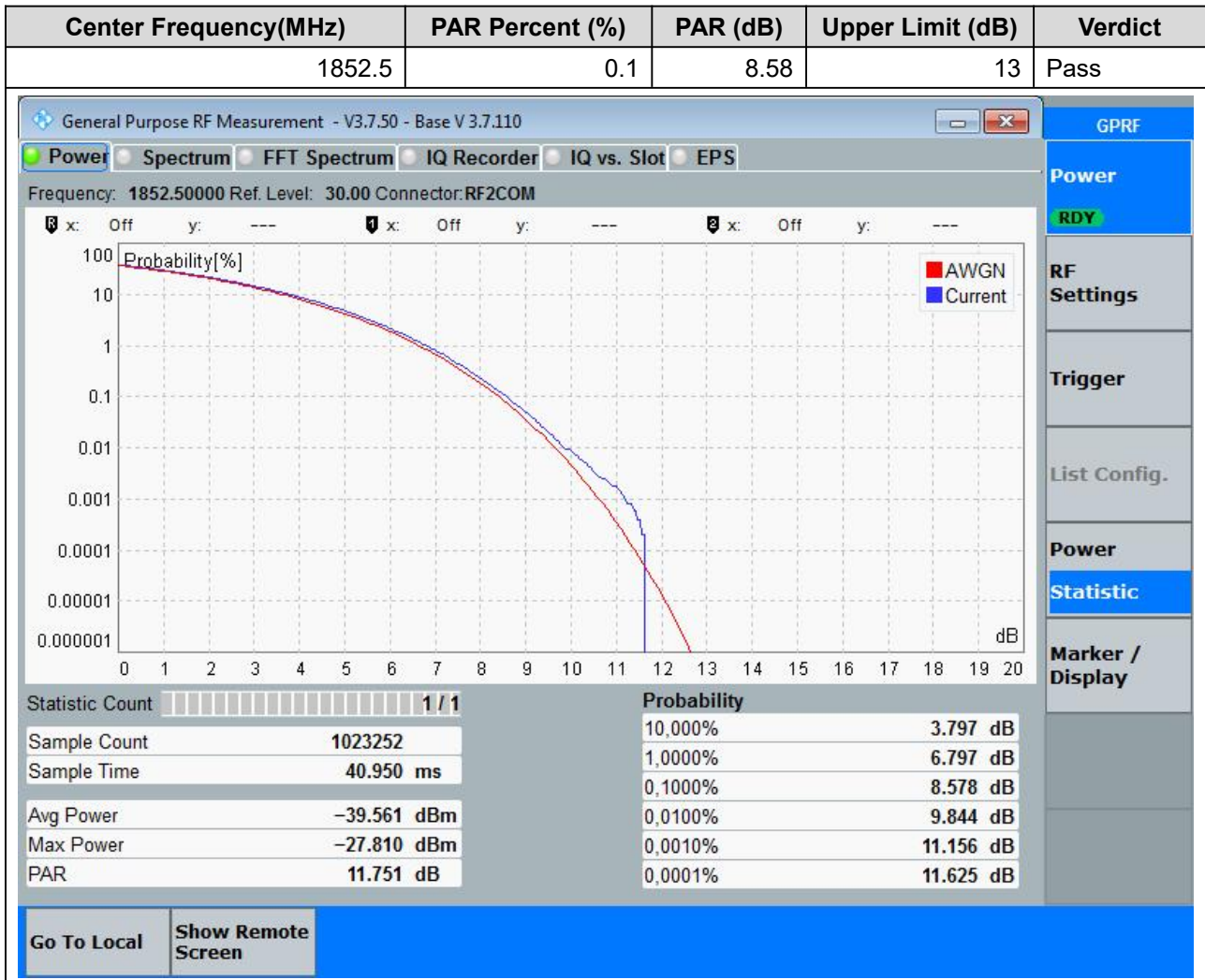
Marker / Display

4. n25 15kHz

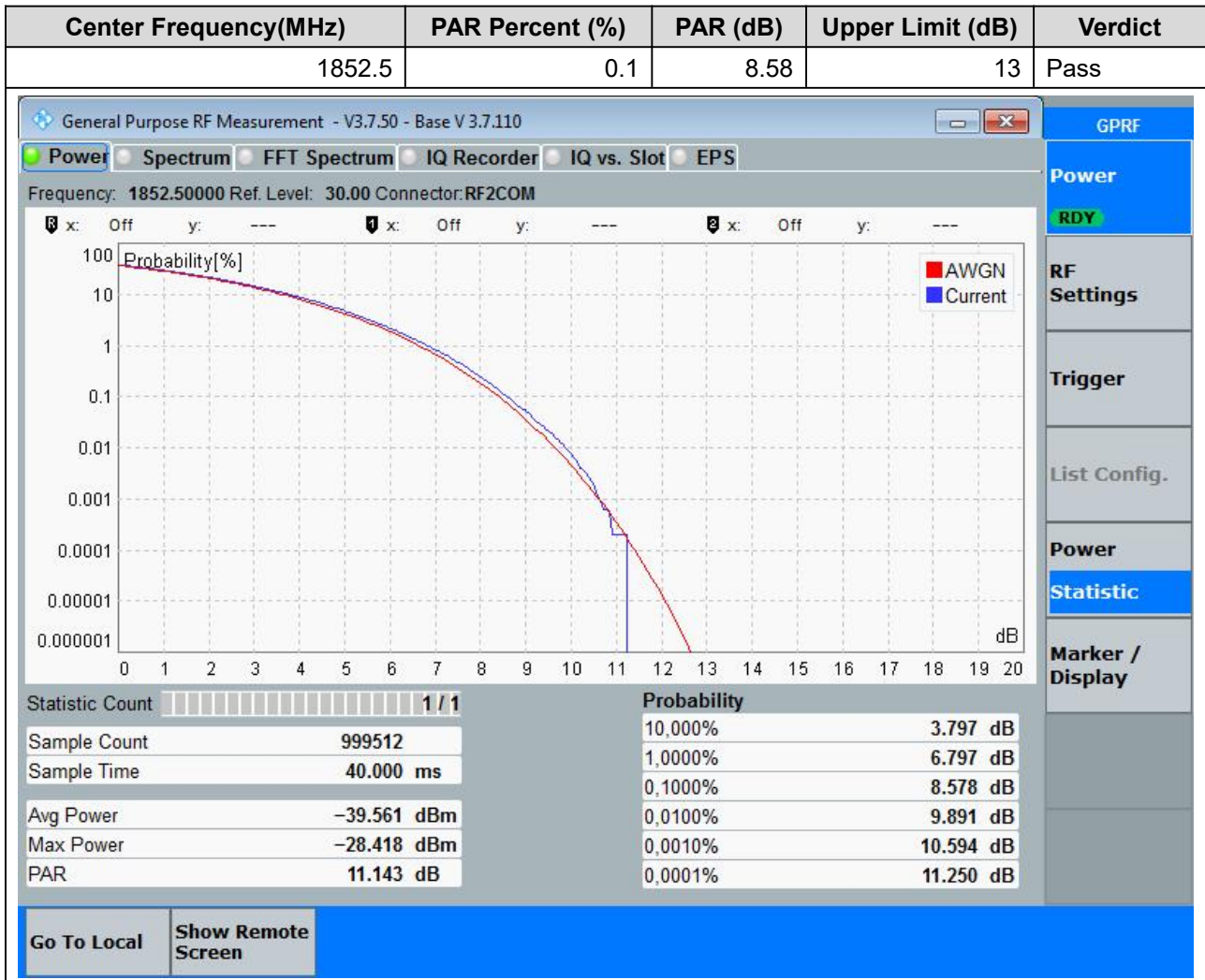
4.1 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)



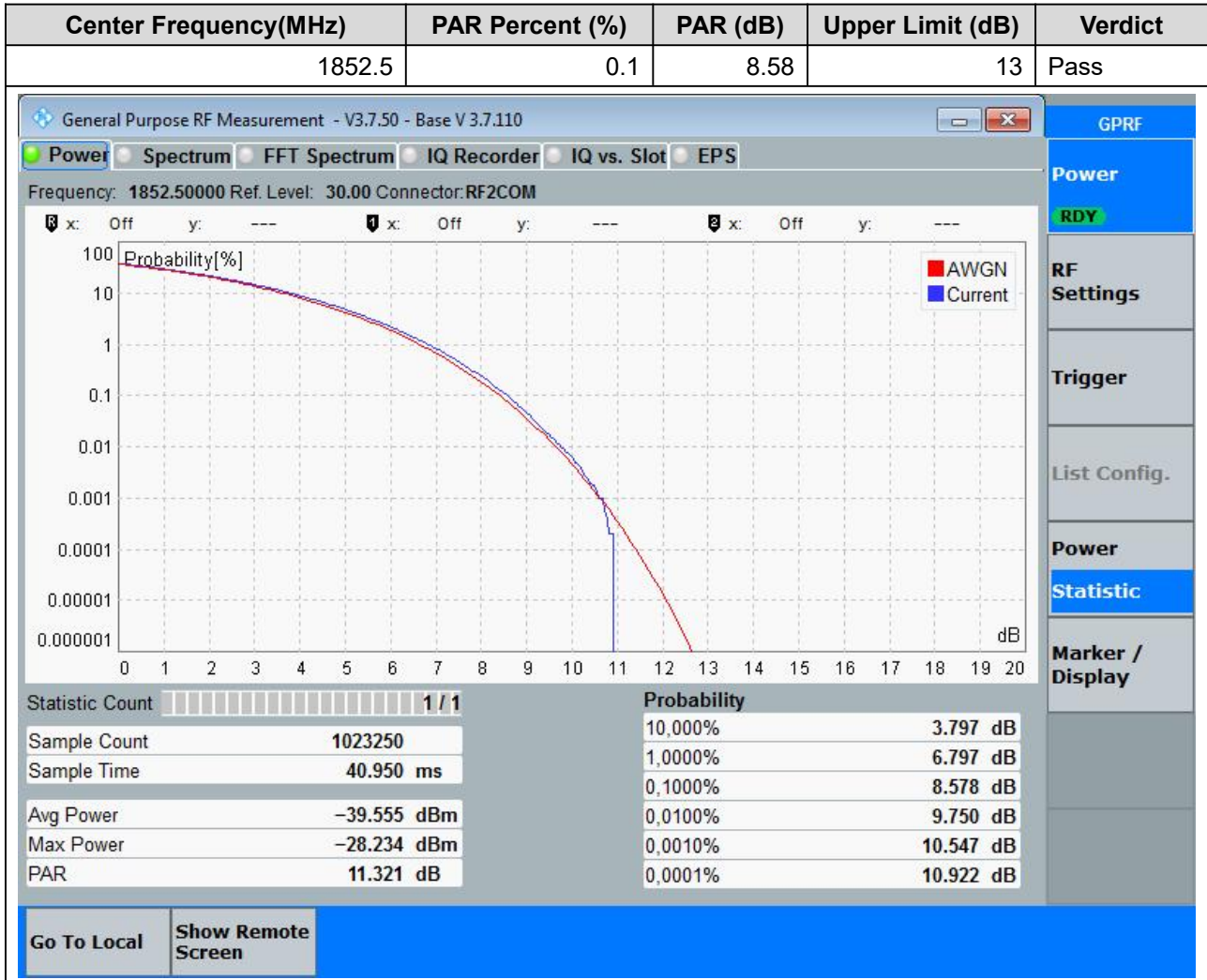
4.2 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:25, RB Position:0)



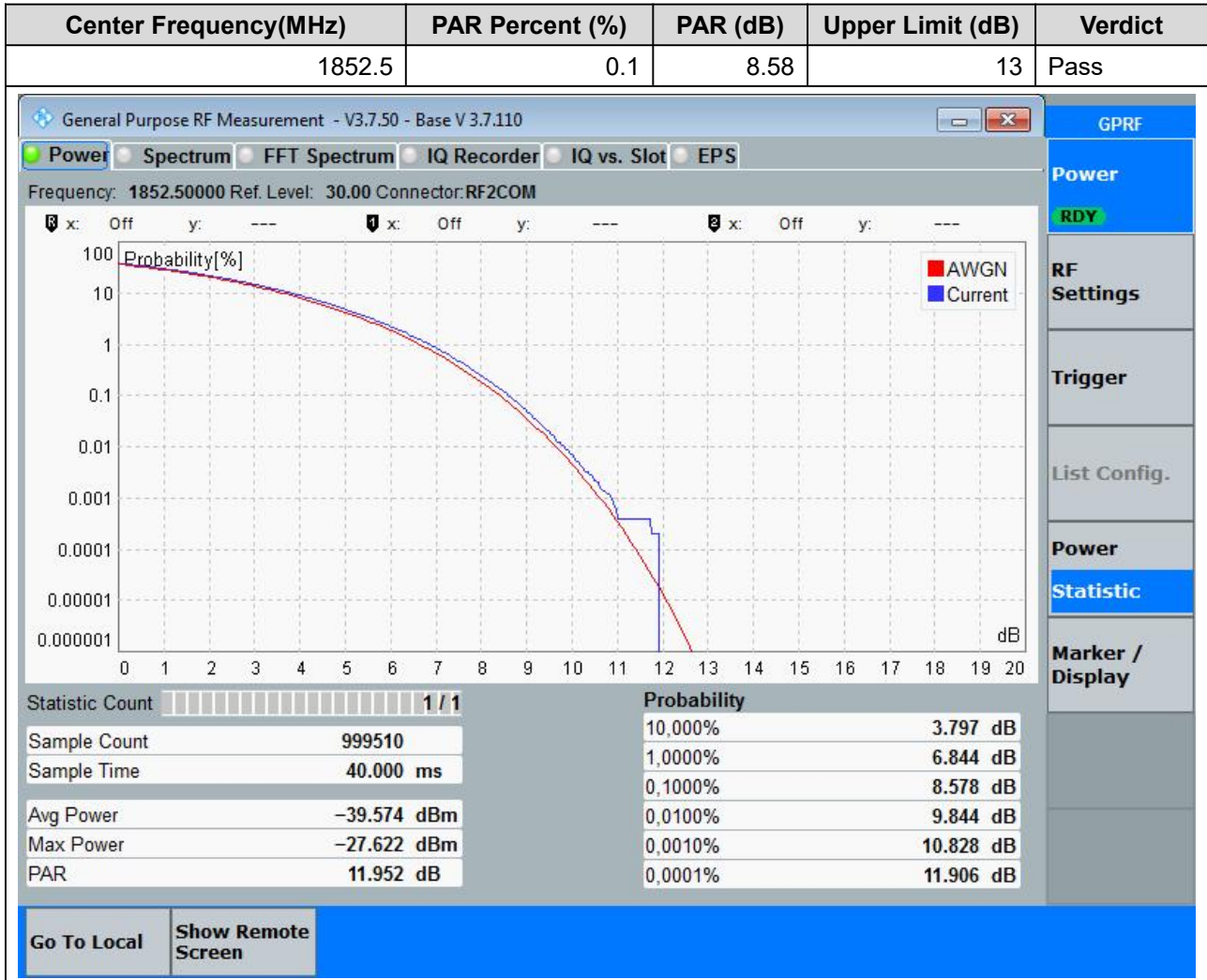
4.3 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)



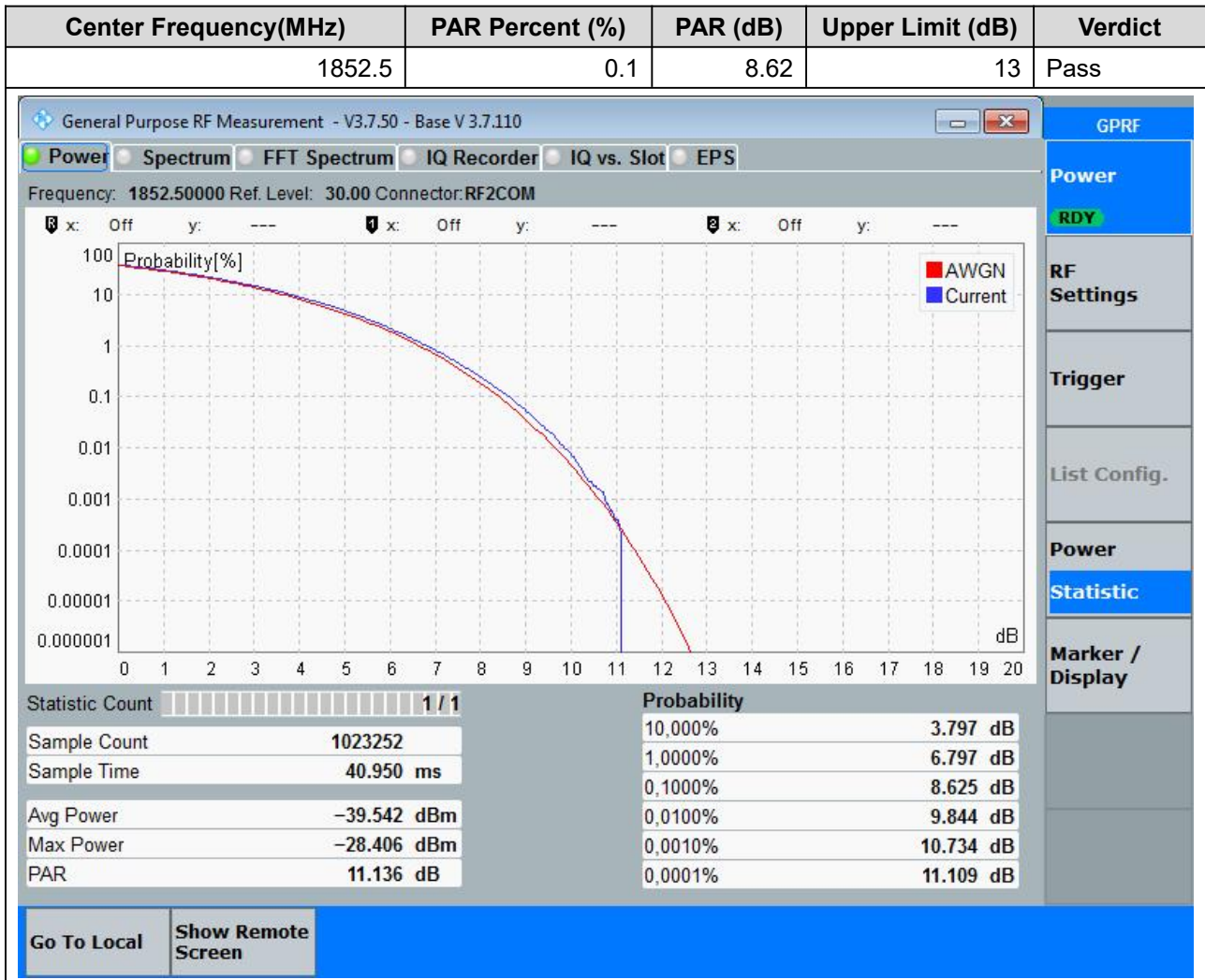
4.4 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)



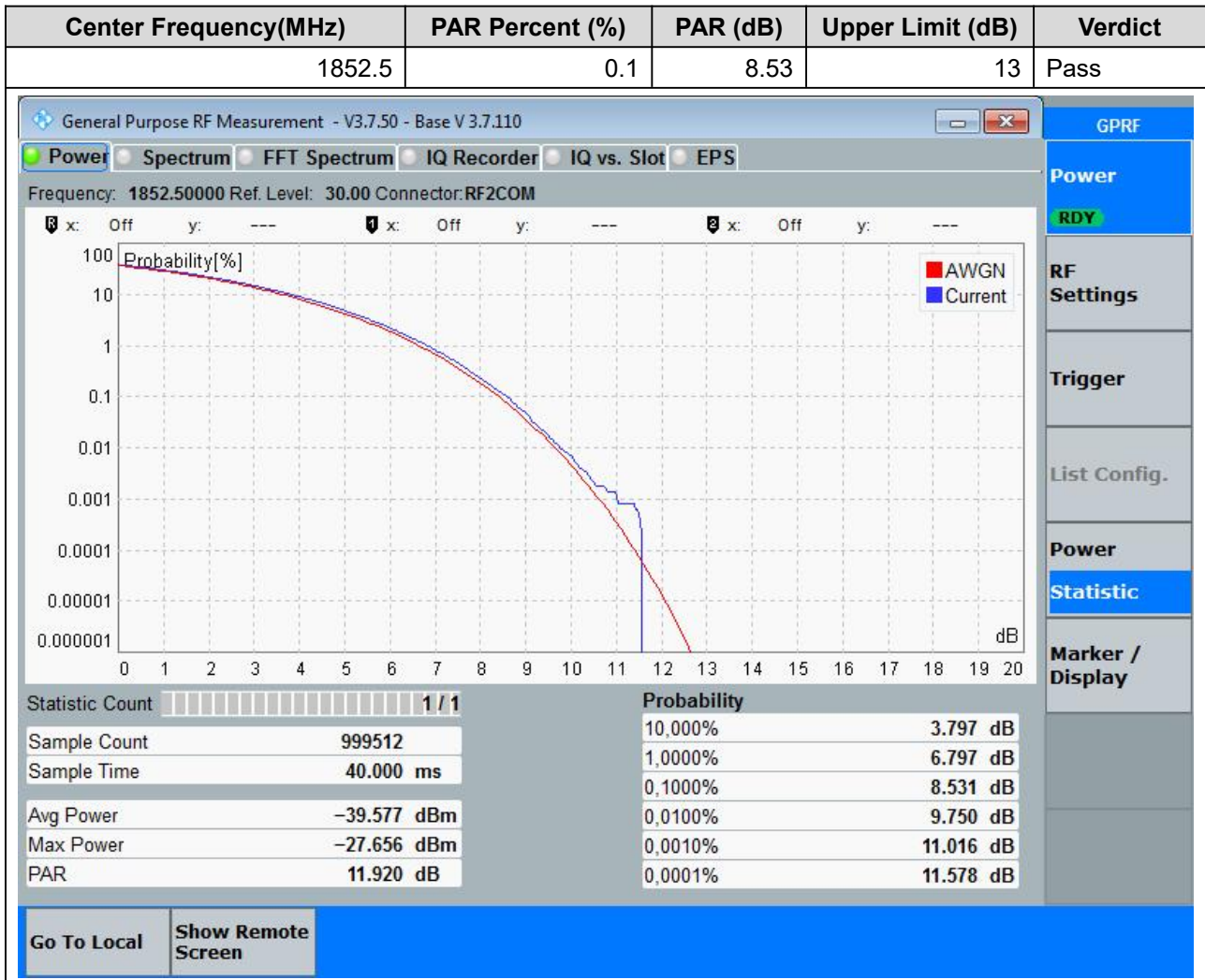
4.5 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)



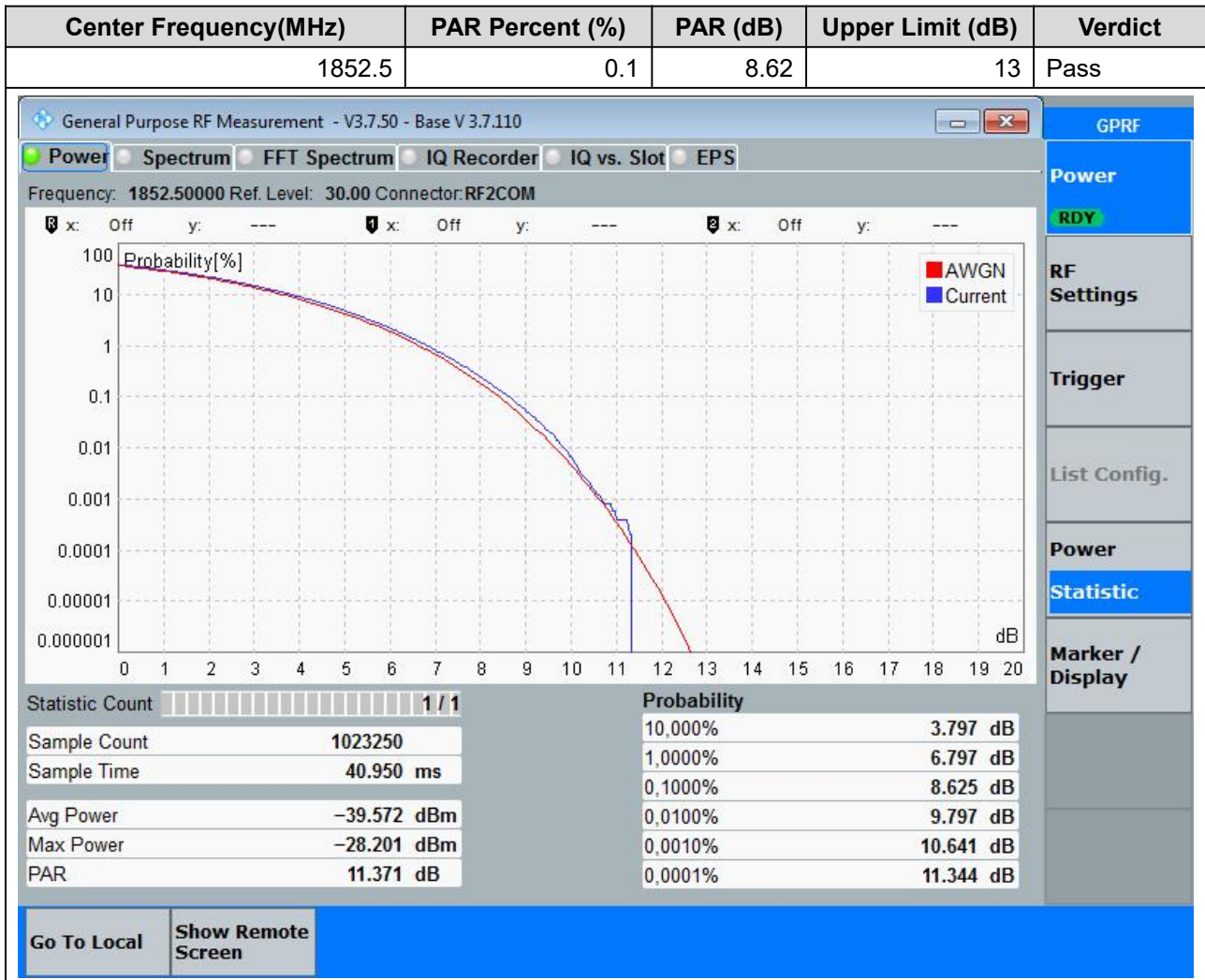
4.6 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:25, RB Position:0)



4.7 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)



4.8 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:25, RB Position:0)



4.9 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1852.5	0.1	8.62	13	Pass

General Purpose RF Measurement - V3.7.50 - Base V 3.7.110
 Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
 Frequency: 1852.50000 Ref. Level: 30.00 Connector: RF2COM

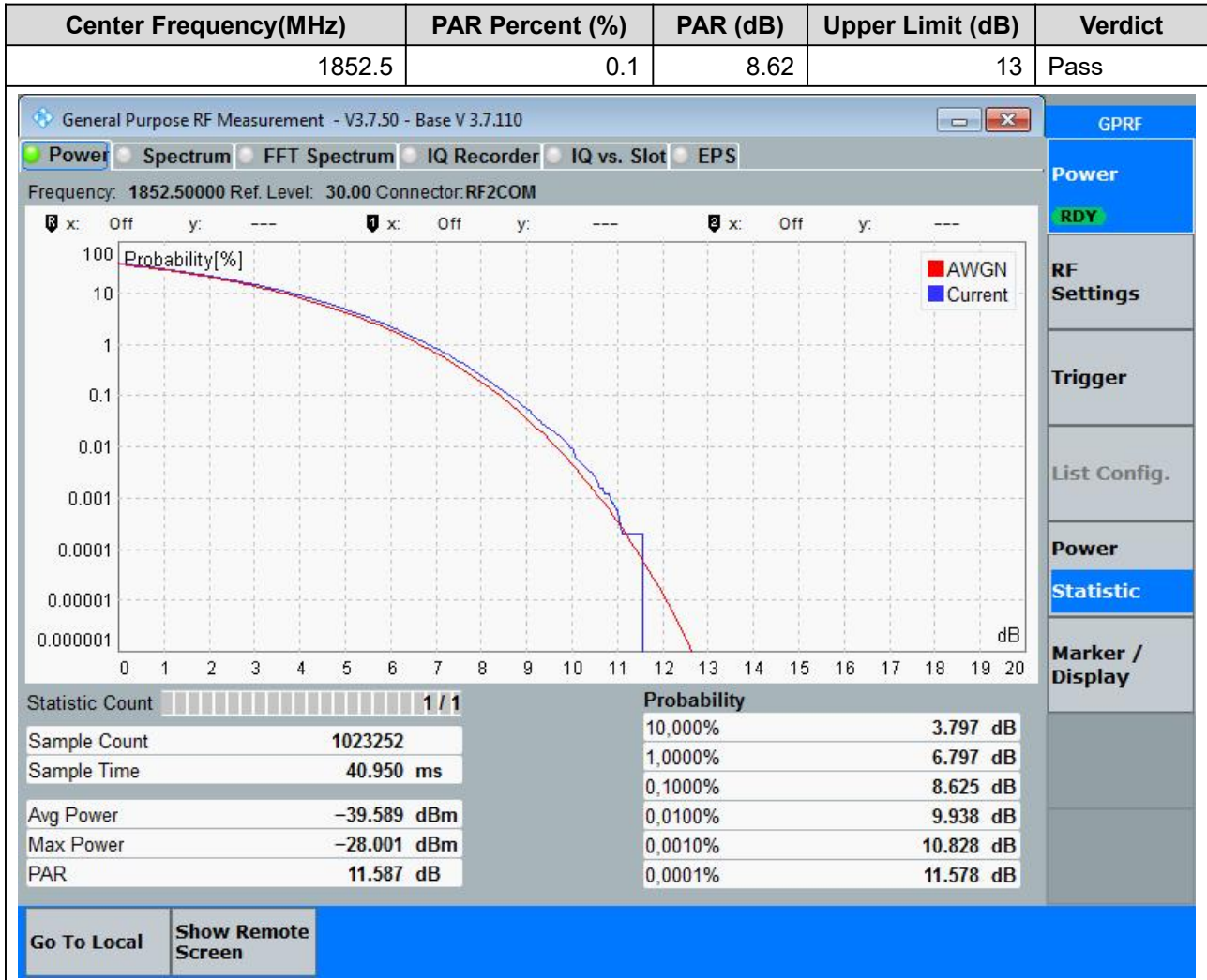
GPRF

Statistic Count	
Sample Count	1000312
Sample Time	40.032 ms
Avg Power	-39.579 dBm
Max Power	-27.784 dBm
PAR	11.795 dB

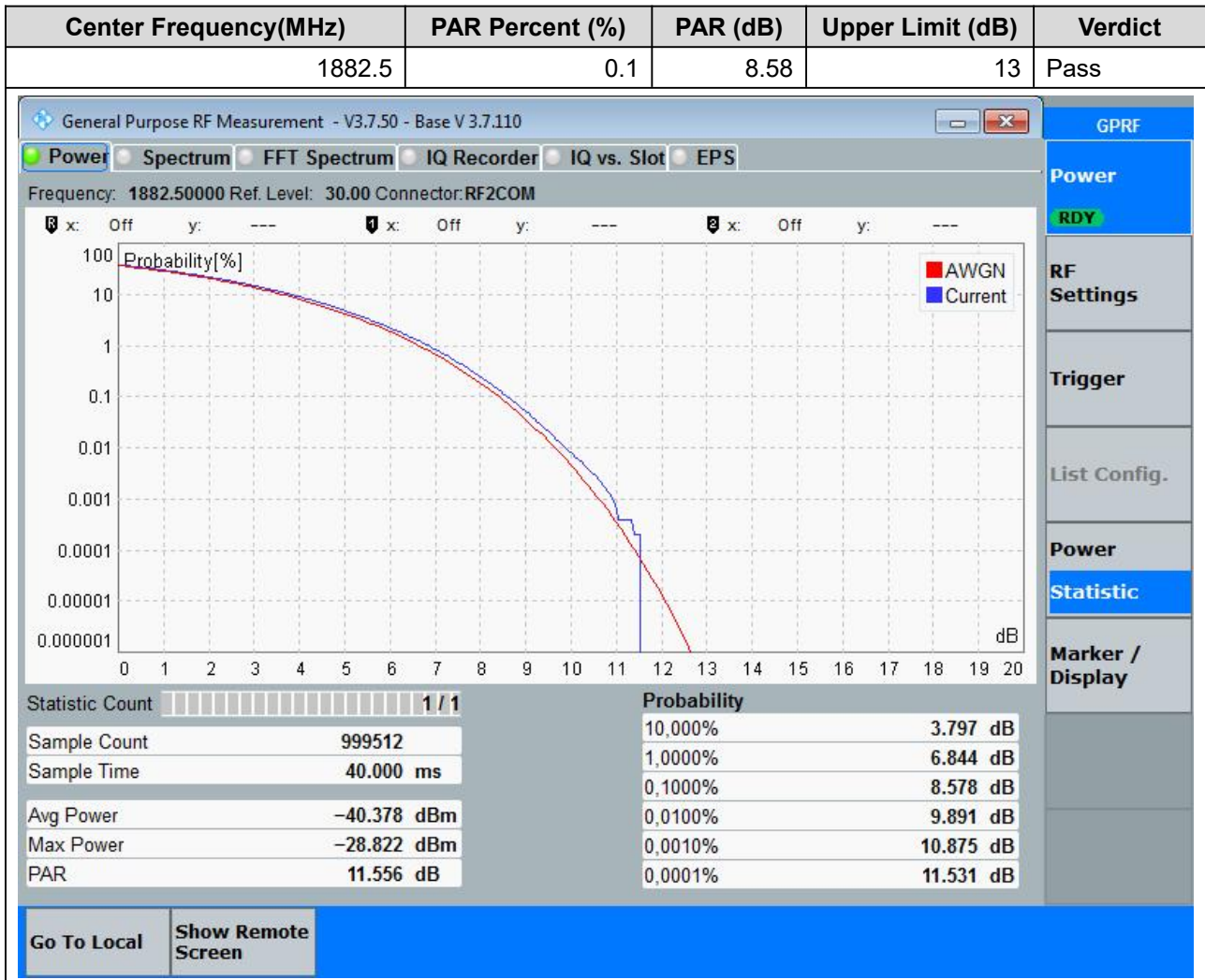
Probability	
10,000%	3.797 dB
1,0000%	6.844 dB
0,1000%	8.625 dB
0,0100%	9.797 dB
0,0010%	10.781 dB
0,0001%	11.484 dB

Go To Local
Show Remote Screen

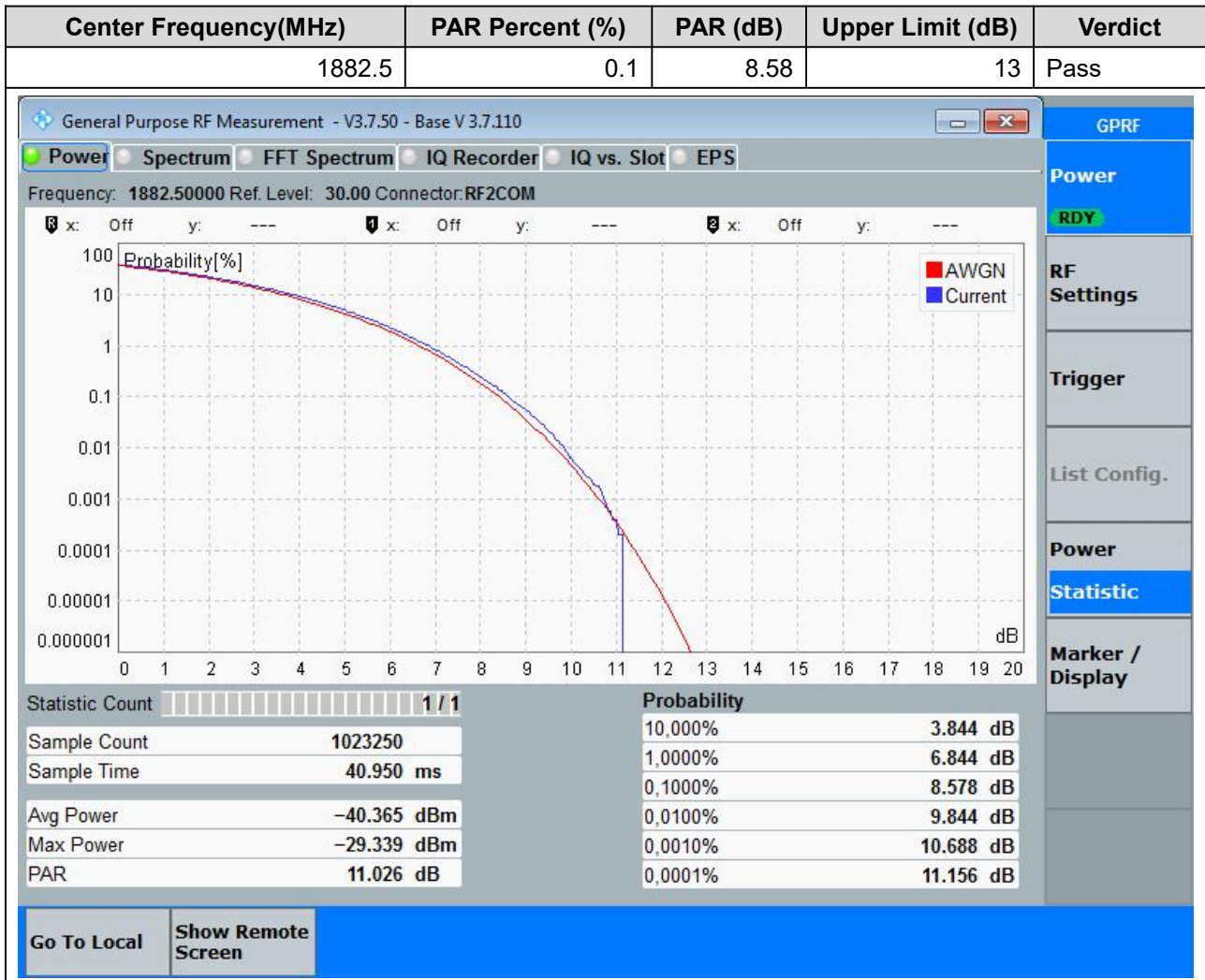
4.10 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:370500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:25, RB Position:0)



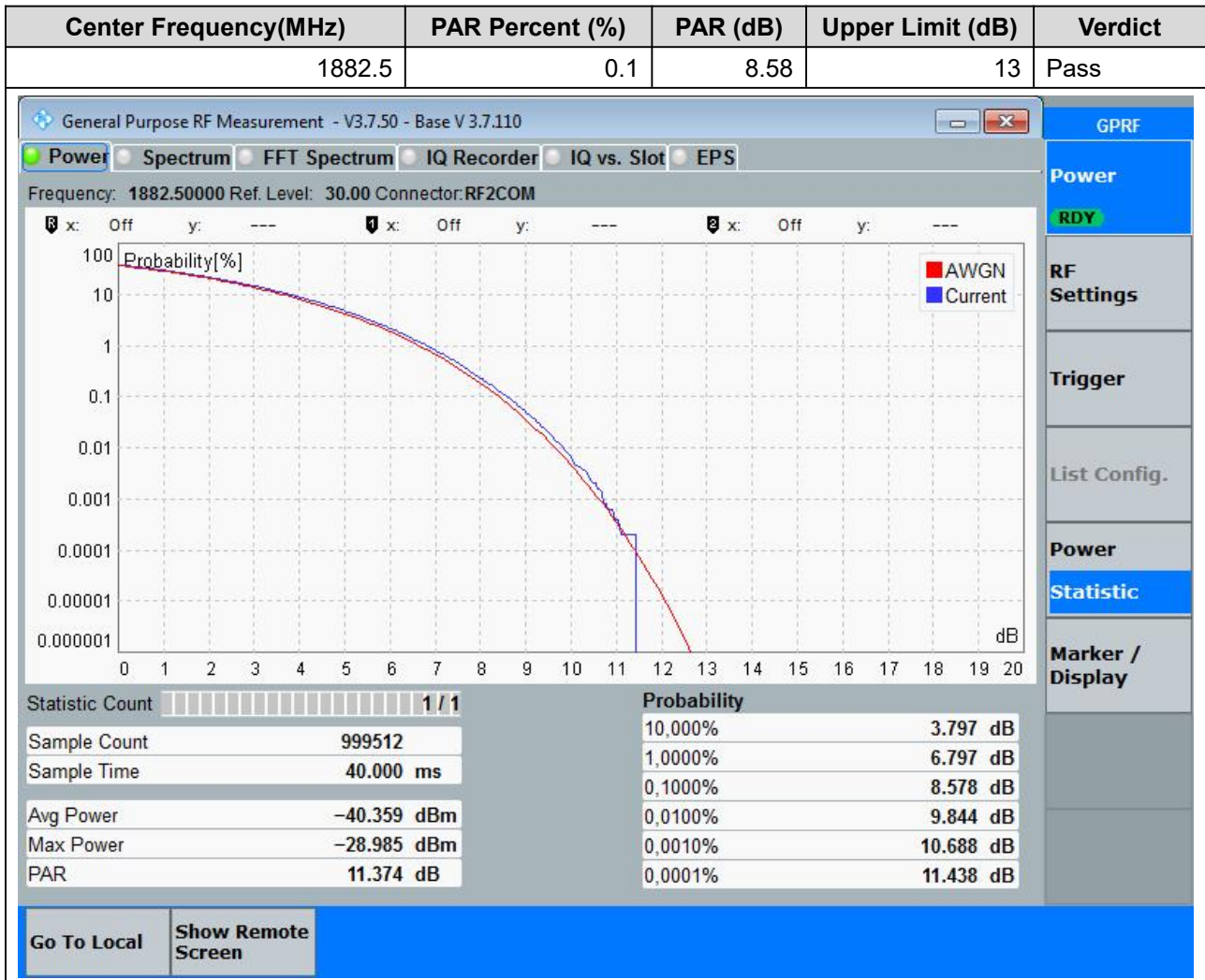
4.11 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)



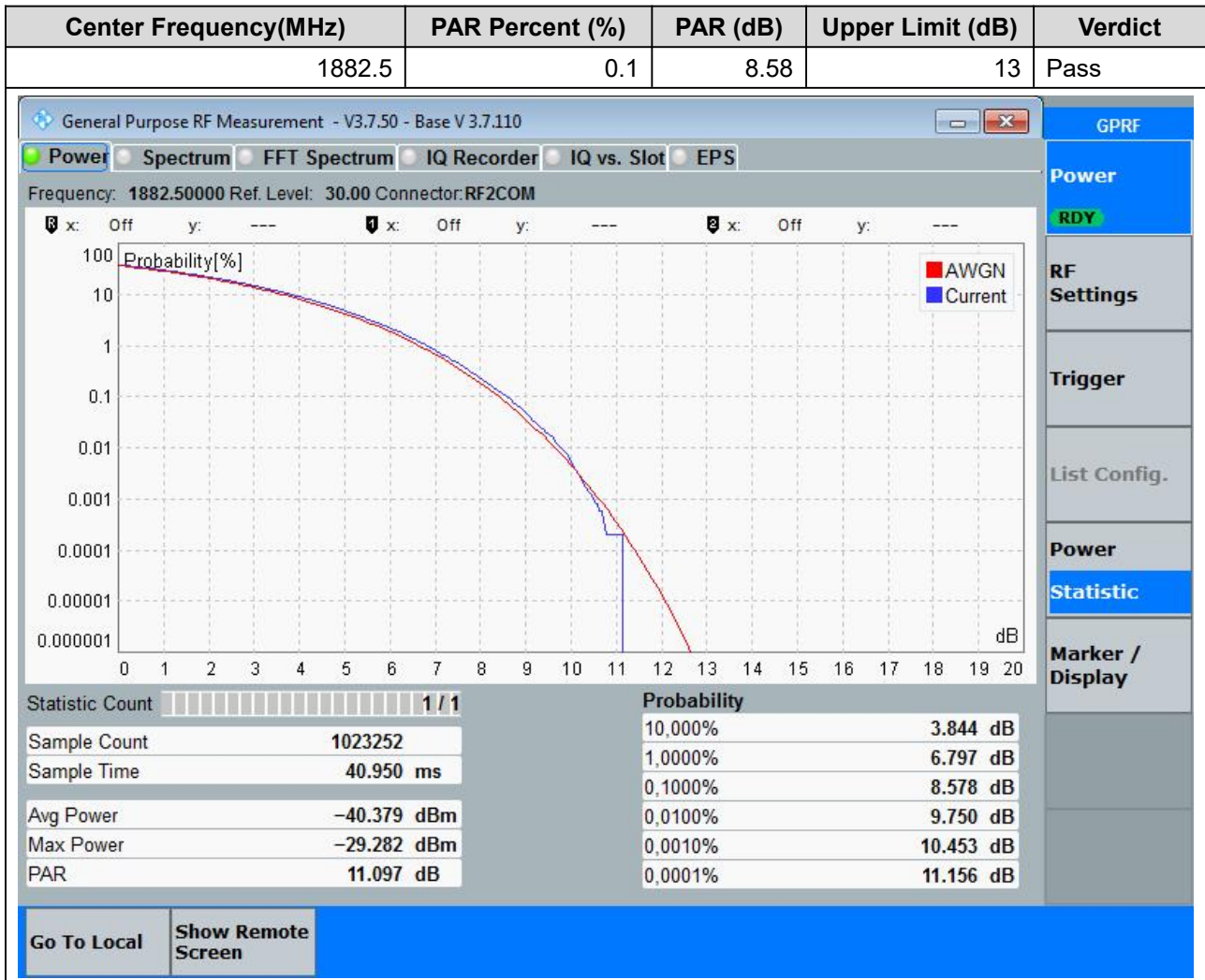
4.12 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:25, RB Position:0)



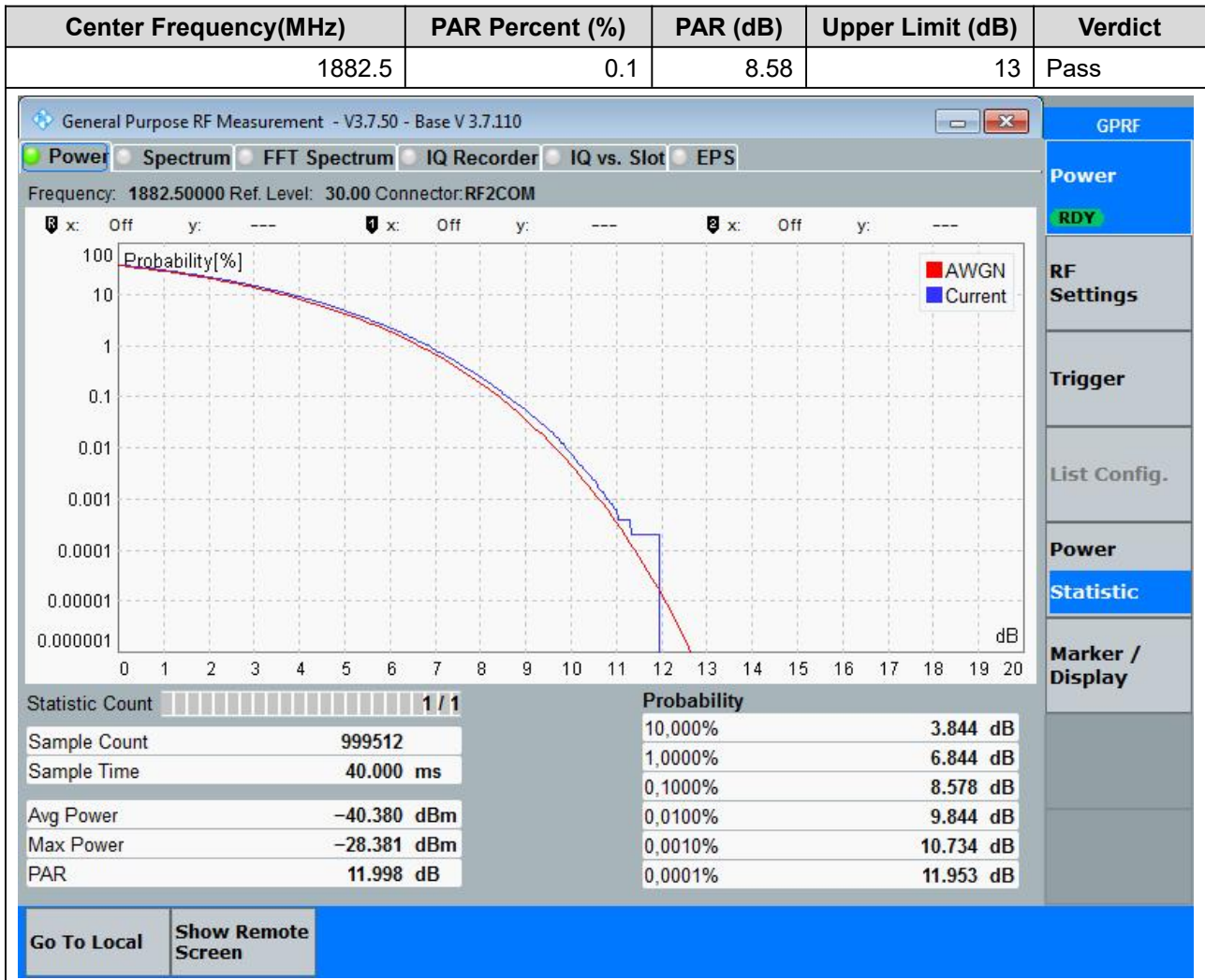
4.13 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)



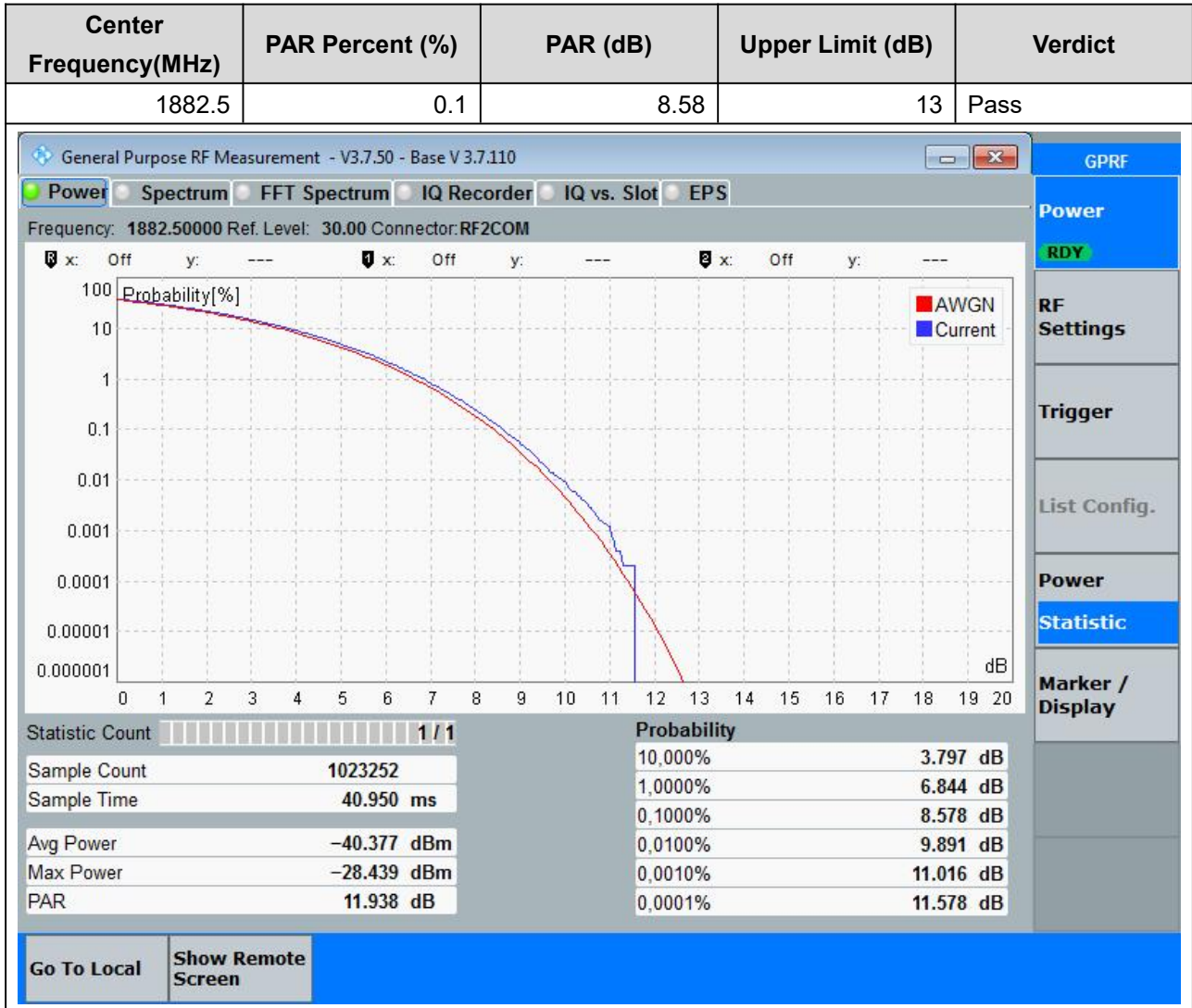
4.14 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)



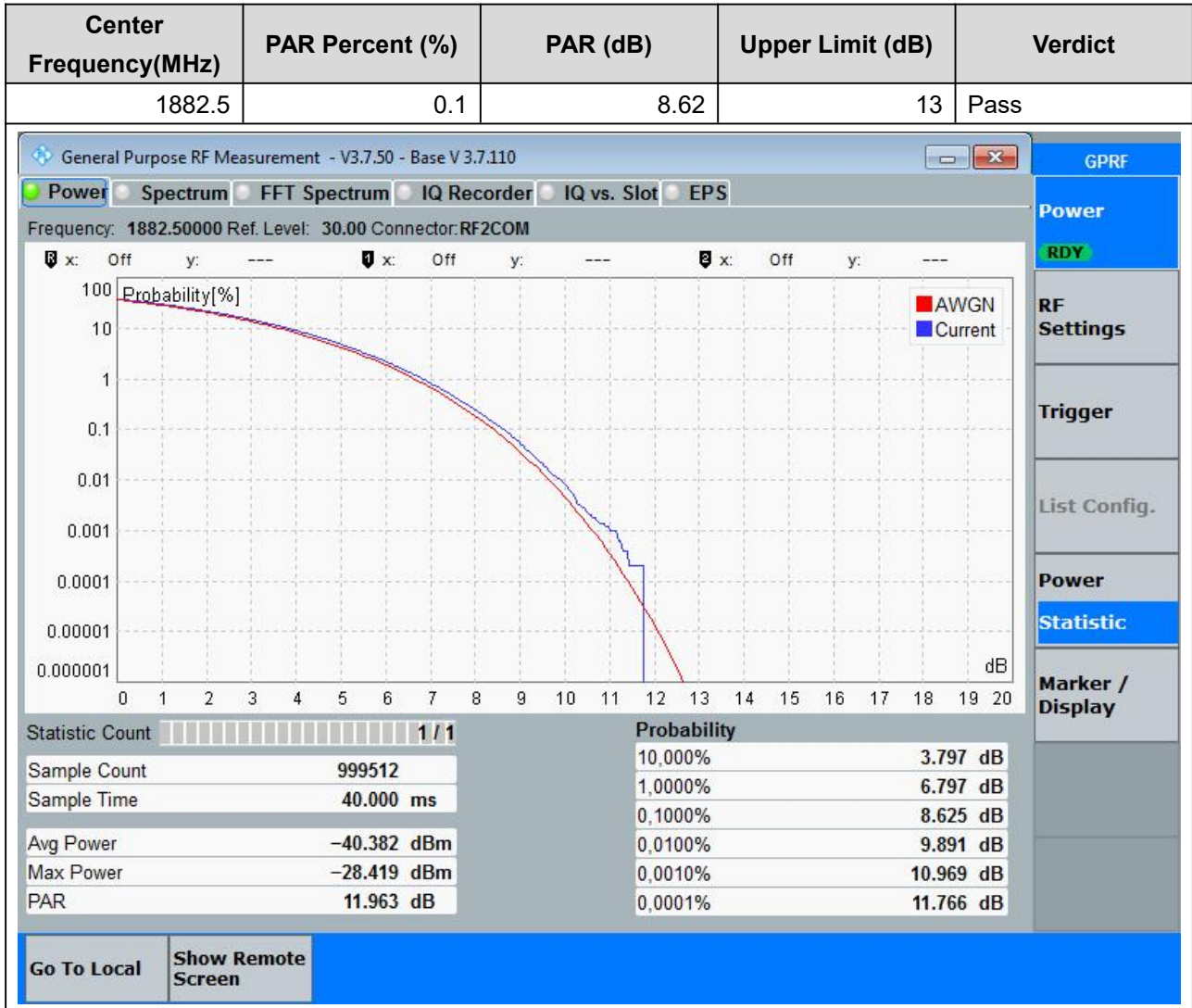
4.15 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)



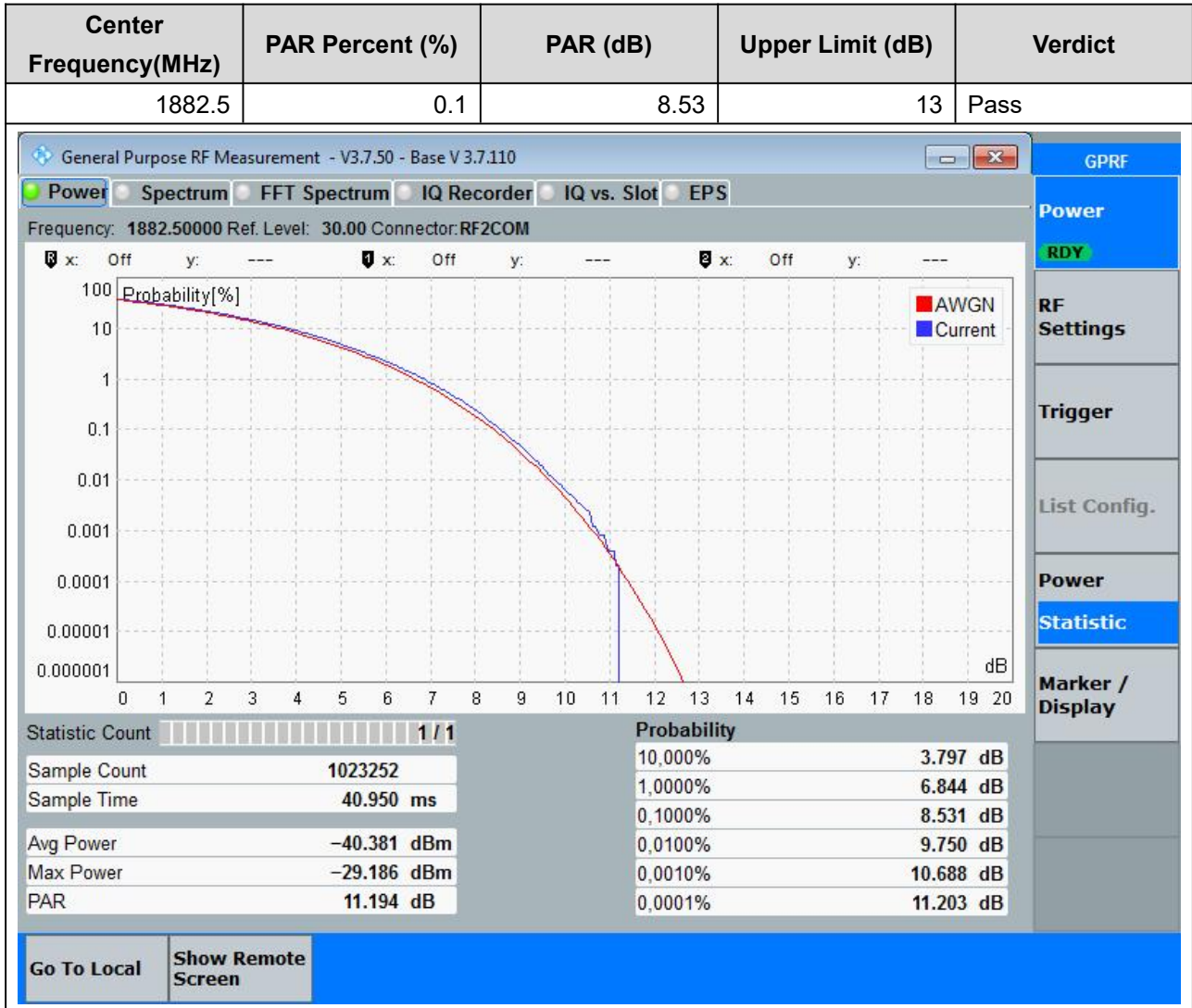
4.16 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:25, RB Position:0)



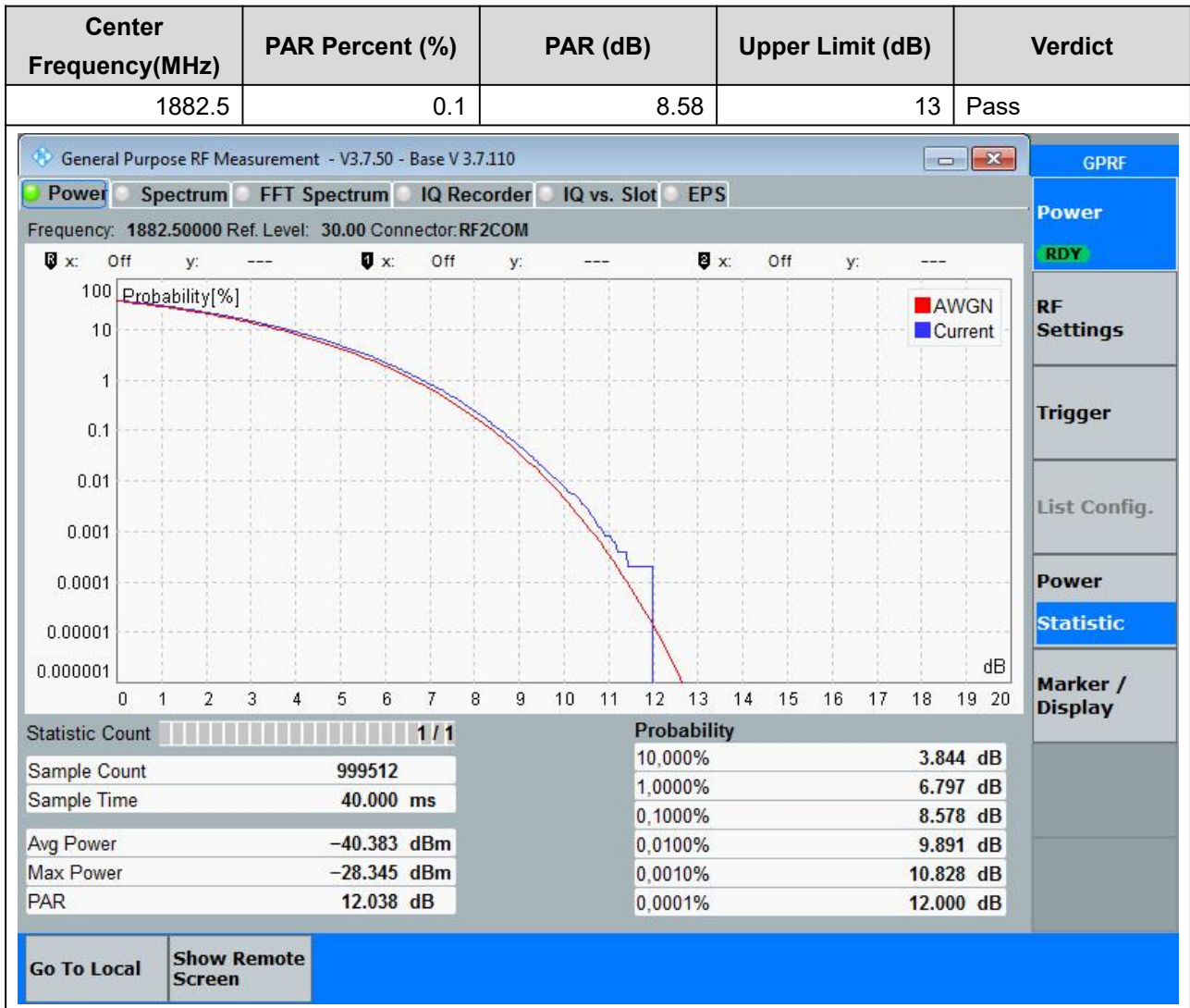
4.17 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)



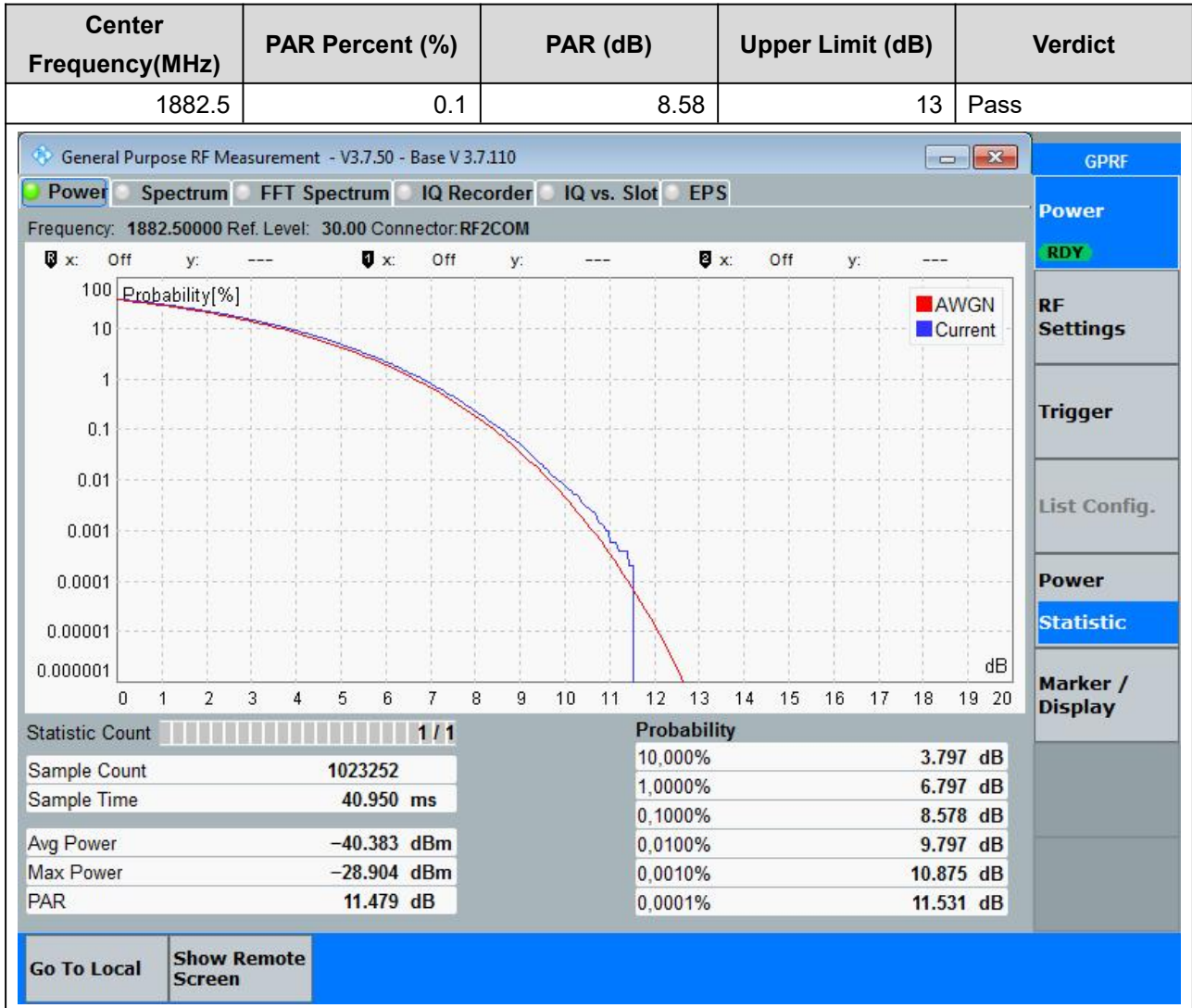
4.18 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:25, RB Position:0)



4.19 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)



4.20 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:376500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:25, RB Position:0)



4.21 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:382500, Bandwidth:5, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)

