

Annex A.2 Peak to Average Ratio

1. WCDMA_Band2

1.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9262)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1852.4	0.1	3.06	13	Pass

WCDMA UE Signaling 1 - V3.7.22 - Base V 3.7.172 Connection Status Cell HSDPA CPC HSUPA CM Circuit Switched Call Established Packet Switched Attached CMW Demod. Info Power: OK Sync: OK Event Log 23:32:11 CS Call Established 23:32:11 Test Loop Closed 23:32:10 CS Radiobearer Established 23:32:07 RRC Connection Established 23:32:04 Establish CS RMC Test Mode Call 23:32:02 New Channels DL 9662 UL 9262 23:32:01 RRC Connection Released UE Measurement Report OFF UTRA FDD (Current Cell) Lower Upper CPICH RSCP [dBm] --- --- CPICH Ec/No [dB] --- --- Log10(TCH BLER) --- --- Transmitted UE Power [dBm] --- --- UE RX-TX Time Difference [Chip] --- --- Pathloss [dB] --- --- Cell Setup Band Band 2 Downlink 9662 Ch Uplink 9262 Ch Frequency 1932.4 MHz Output Power -65.00 dBm Total Output -65.00 dBm Scrambling Code 0 hex P-CPICH -3.3 dB Code 0 PS Domain ☒ Reduced Signaling ☐ Connection Setup Current Connection Test Mode Type RMC RMC Domain CS Data Rate DL 12.2 kbps UL 12.2 kbps Test Mode Loop Mode 2 Loop Mode 2 ☐ Sym. UL CRC DL Resource in Use 100 % Data Pattern PRBS9 Go To Local Show Remote Screen			
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1.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9400)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	3.08	13	Pass

WCDMA UE Signaling 1 - V3.7.22 - Base V 3.7.172

Connection Status

Cell

HSDPA

HSUPA

CPC

CM

Circuit Switched

Call Established

Packet Switched

Attached

CMW Demod. Info

Power: OK Sync: OK

Event Log

23:32:17 Reconfiguration Finished

23:32:17 Test Loop Closed

23:32:15 Test Loop Openend

23:32:15 Reconfiguration Started

23:32:15 New Channels DL 9800 UL 9400

23:32:11 CS Call Established

23:32:11 Test Loop Closed

UE Measurement Report

UTRA FDD (Current Cell)

	Lower	Upper
CPICH RSCP [dBm]	---	---
CPICH Ec/No [dB]	---	---
Log10(TCH BLER)	---	---
Transmitted UE Power [dBm]	---	---
UE RX-TX Time Difference [Chip]	---	---
Pathloss [dB]	---	---

Cell Setup

Band

Band 2

Channel

9800 Ch

Frequency

1960.0 MHz

Output Power

-65.00 dBm

Total Output

-65.00 dBm

Scrambling Code

0 hex

P-CPICH

-3.3 dB

PS Domain

☒

Reduced Signaling

☐

Connection Setup

Current Connection

Test Mode

Type

RMC

RMC

Domain

CS

Data Rate

DL 12.2 kbps UL 12.2 kbps

Test Mode

Loop Mode 2

Loop Mode 2

☐

Sym. UL CRC

☐

DL Resource in Use

100 %

Data Pattern

PRBS9

WCDMA

WCDMA 1 TX Meas

WCDMA 1 RX Meas

Go to...

Routing

Signaling Parameter

WCDMA-UE Signaling

Run

Go To Local

Show Remote Screen

1.3 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9538)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1907.6	0.1	3.08	13	Pass

WCDMA UE Signaling 1 - V3.7.22 - Base V 3.7.172

Connection Status

Cell

HSDPA

HSPA

CPC

CM

Circuit Switched

Call Established

Packet Switched

Attached

CMW Demod. Info

Power: OK Sync: OK

Event Log

23:32:25 Reconfiguration Finished

23:32:25 Test Loop Closed

23:32:23 Test Loop Openend

23:32:23 Reconfiguration Started

23:32:23 New Channels DL 9938 UL 9538

23:32:17 Reconfiguration Finished

23:32:17 Test Loop Closed

UE Measurement Report

UTRA FDD (Current Cell)

	Lower	Upper
CPICH RSCP [dBm]	---	---
CPICH Ec/No [dB]	---	---
Log10(TCH BLER)	---	---
Transmitted UE Power [dBm]	---	---
UE RX-TX Time Difference [Chip]	---	---
Pathloss [dB]	---	---

Cell Setup

Band

Band 2

Channel

9938 Ch

Frequency

1987.6 MHz

Output Power

-65.00 dBm

Total Output

-65.00 dBm

Scrambling Code

0 hex

P-CPICH

-3.3 dB

PS Domain

☒

Reduced Signaling

☐

Connection Setup

Current Connection

Test Mode

Type

RMC

RMC

Domain

CS

Data Rate

DL 12.2 kbps UL 12.2 kbps

Test Mode

Loop Mode 2

Loop Mode 2

☐

Sym. UL CRC

☐

DL Resource in Use

100 %

Data Pattern

PRBS9

WCDMA

WCDMA 1 TX Meas

WCDMA 1 RX Meas

Go to...

Routing

Signaling Parameter

WCDMA-UE Signaling

Run

Go To Local

Show Remote Screen

2.3 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:1513)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1752.6	0.1	2.93	13	Pass

WCDMA UE Signaling 1 - V3.7.22 - Base V 3.7.172

Connection Status

Cell

HSDPA

HSPA

CPC

CM

Circuit Switched

Call Established

Packet Switched

Attached

CMW Demod. Info

Power: OK Sync: OK

Event Log

00:17:41 Reconfiguration Finished

00:17:41 Test Loop Closed

00:17:39 Test Loop Openend

00:17:39 Reconfiguration Started

00:17:39 New Channels DL 1738 UL 1513

00:17:33 Reconfiguration Finished

00:17:33 Test Loop Closed

UE Measurement Report

UTRA FDD (Current Cell)

	Lower	Upper
CPICH RSCP [dBm]	---	---
CPICH Ec/No [dB]	---	---
Log10(TCH BLER)	---	---
Transmitted UE Power [dBm]	---	---
UE RX-TX Time Difference [Chip]	---	---
Pathloss [dB]	---	---

Cell Setup

Band

Band 4

Channel

1738 Ch

Frequency

2152.6 MHz

Output Power

-65.00 dBm

Total Output

-65.00 dBm

Scrambling Code

0 hex

P-CPICH

-3.3 dB

PS Domain

☒

Reduced Signaling

☐

Connection Setup

Current Connection

Test Mode

Type

RMC

RMC

Domain

CS

Data Rate

DL 12.2 kbps UL 12.2 kbps

Test Mode

Loop Mode 2

Loop Mode 2

☐

Sym. UL CRC

☐

DL Resource in Use

100 %

Data Pattern

PRBS9

WCDMA

WCDMA 1 TX Meas

WCDMA 1 RX Meas

Go to...

Routing

Signaling Parameter

WCDMA-UE Signaling

Run

Go To Local

Show Remote Screen

3.3 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:4233)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
846.6	0.1	2.95	13	Pass

WCDMA UE Signaling 1 - V3.7.22 - Base V 3.7.172

Connection Status

Cell

HSDPA

HSPA

CPC

CM

Circuit Switched

Call Established

Packet Switched

Attached

CMW Demod. Info

Power: OK Sync: OK

Event Log

00:35:06 Reconfiguration Finished

00:35:06 Test Loop Closed

00:35:04 Test Loop Openend

00:35:04 Reconfiguration Started

00:35:04 New Channels DL 4458 UL 4233

00:34:58 Reconfiguration Finished

00:34:58 Test Loop Closed

UE Measurement Report

UTRA FDD (Current Cell)

	Lower	Upper
CPICH RSCP [dBm]	---	---
CPICH Ec/No [dB]	---	---
Log10(TCH BLER)	---	---
Transmitted UE Power [dBm]	---	---
UE RX-TX Time Difference [Chip]	---	---
Pathloss [dB]	---	---

Cell Setup

Band

Band 5

Channel

4458 Ch

Frequency

891.6 MHz

Output Power

-65.00 dBm

Total Output

-65.00 dBm

Scrambling Code

0 hex

P-CPICH

-3.3 dB

PS Domain

☒

Reduced Signaling

☐

Connection Setup

Current Connection

Test Mode

Type

RMC

RMC

Domain

CS

Data Rate

DL 12.2 kbps UL 12.2 kbps

Test Mode

Loop Mode 2

Loop Mode 2

☐

Sym. UL CRC

☐

DL Resource in Use

100 %

Data Pattern

PRBS9

WCDMA

WCDMA 1 TX Meas

WCDMA 1 RX Meas

Go to...

Routing

Signaling Parameter

WCDMA-UE Signaling

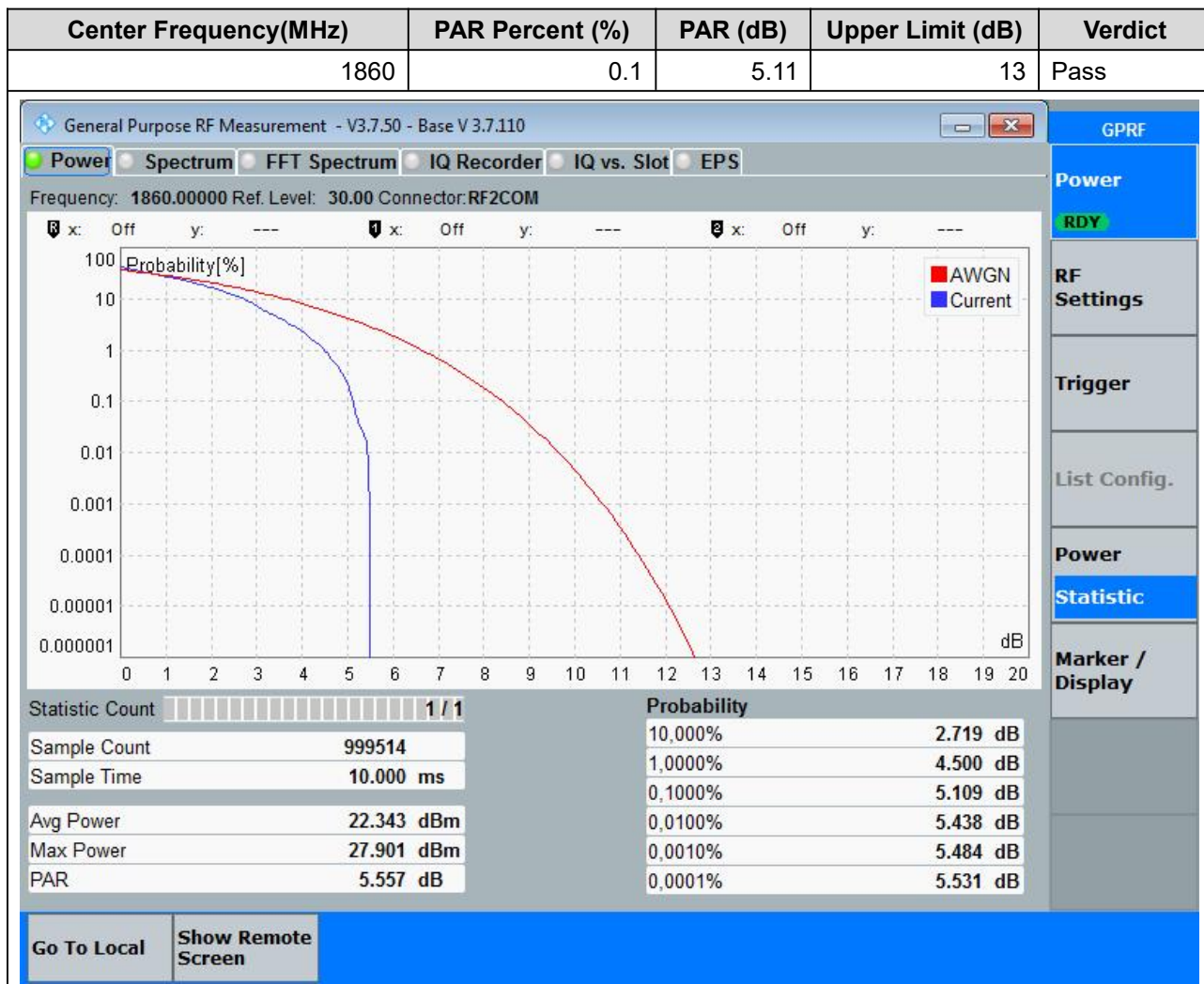
Run

Go To Local

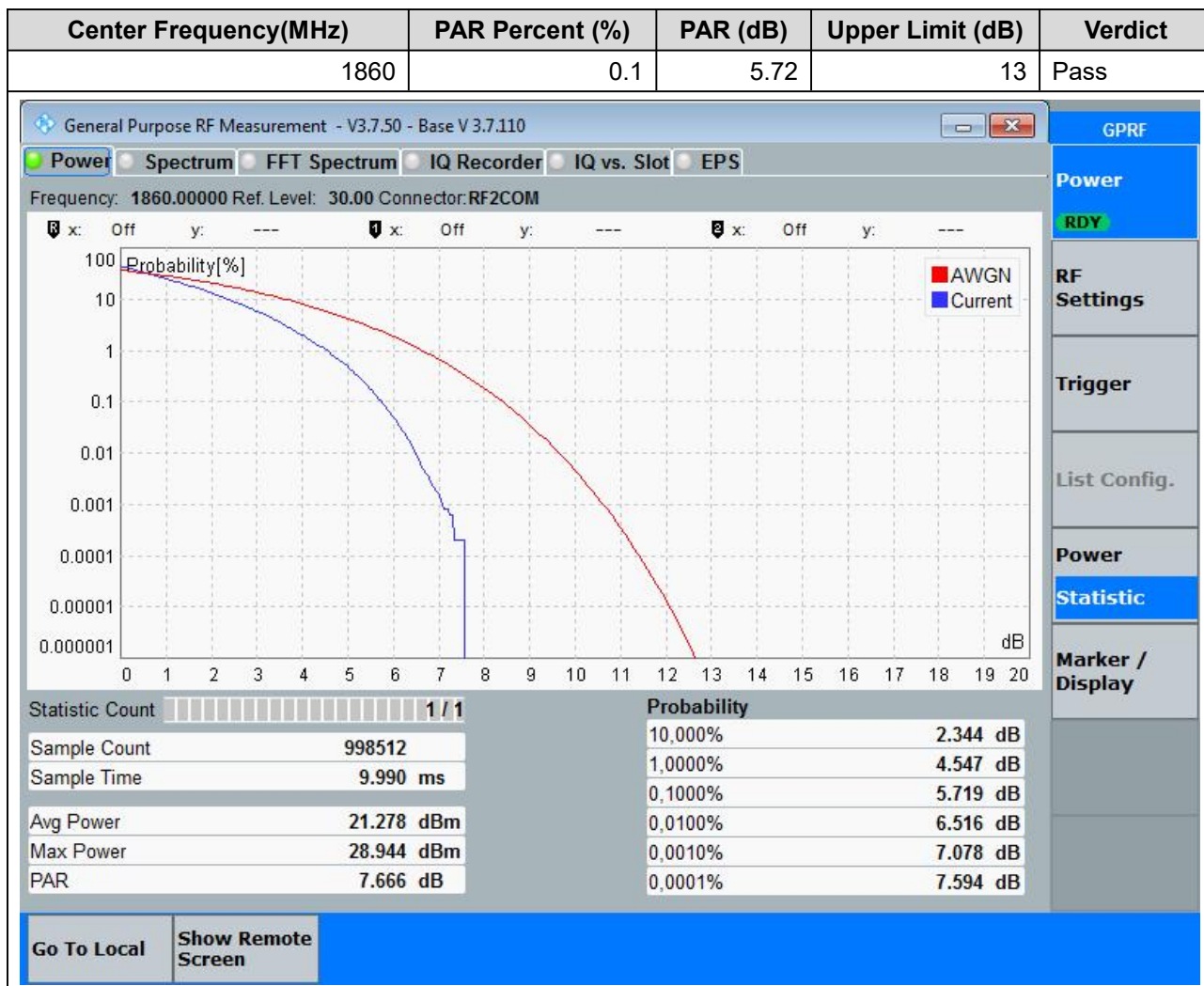
Show Remote Screen

4. LTE_Band2

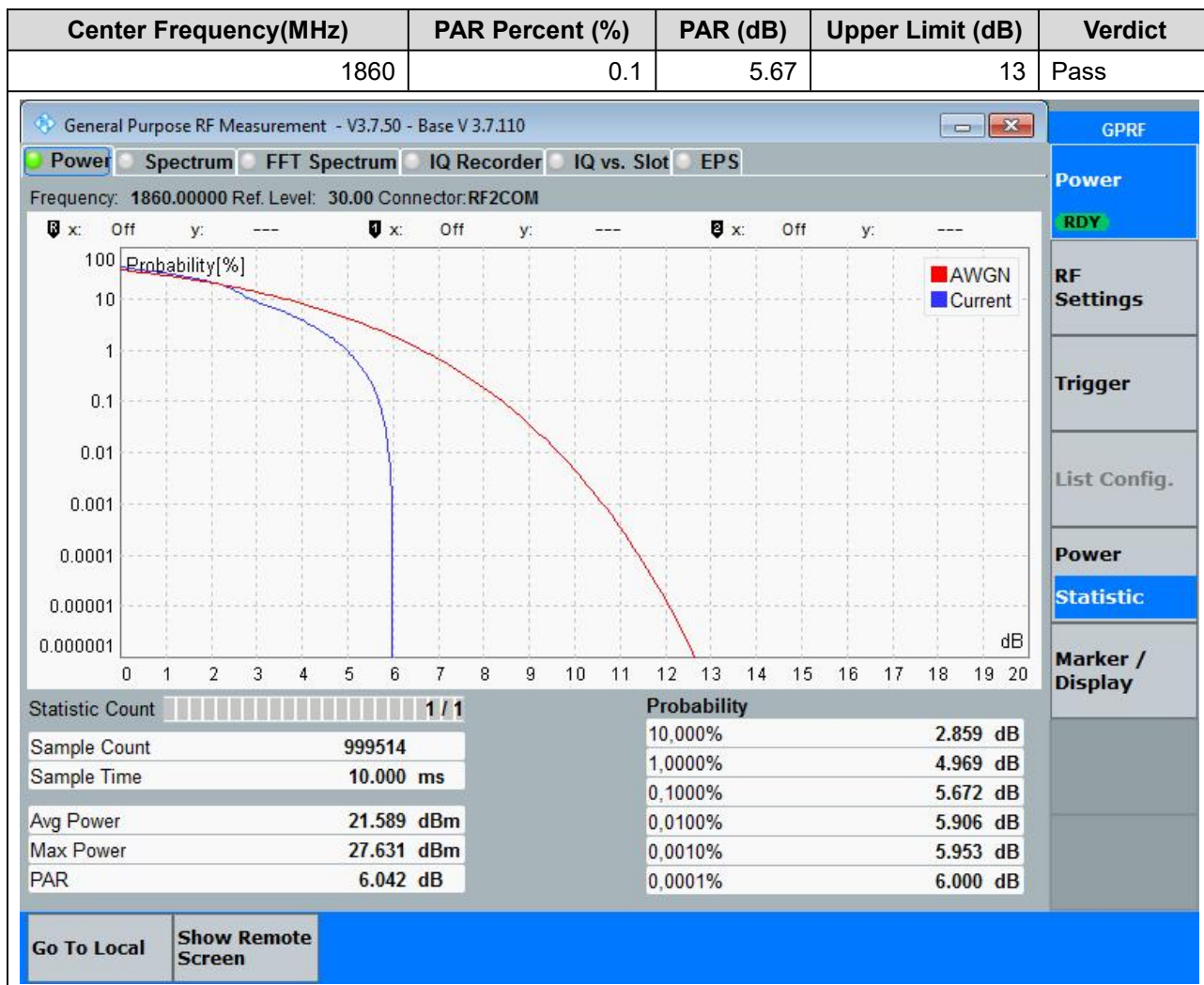
4.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



4.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

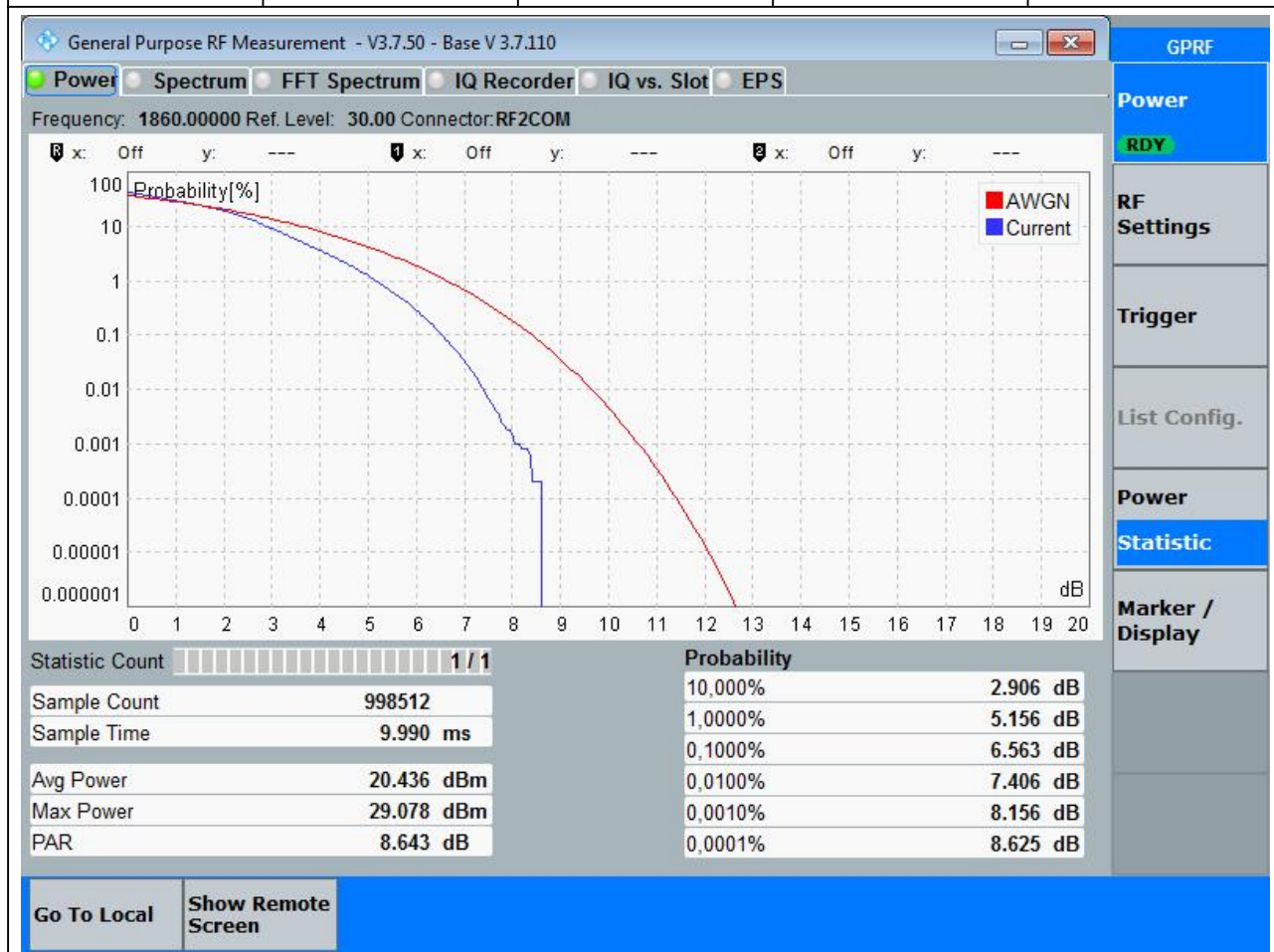


4.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



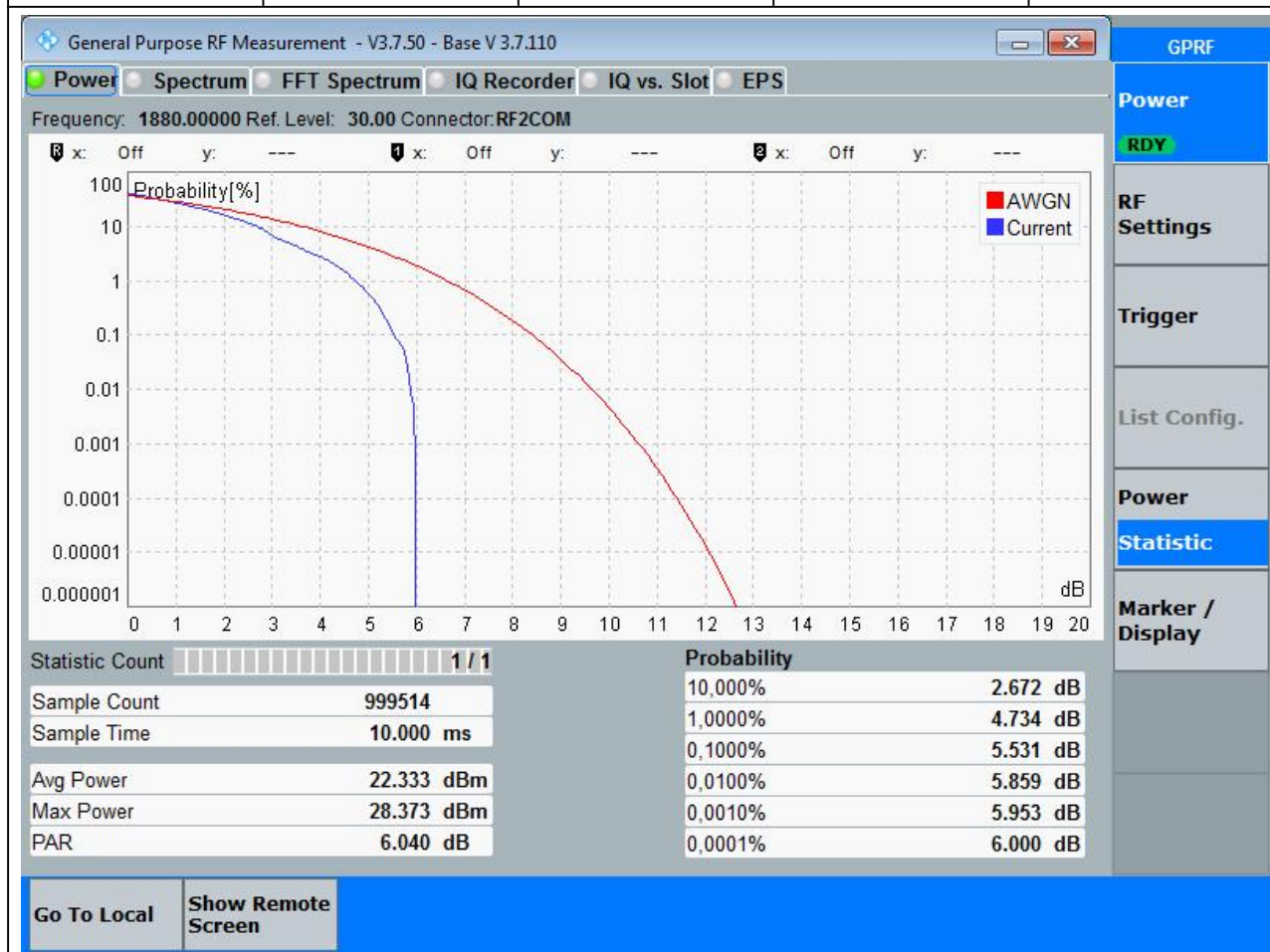
4.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	6.56	13	Pass



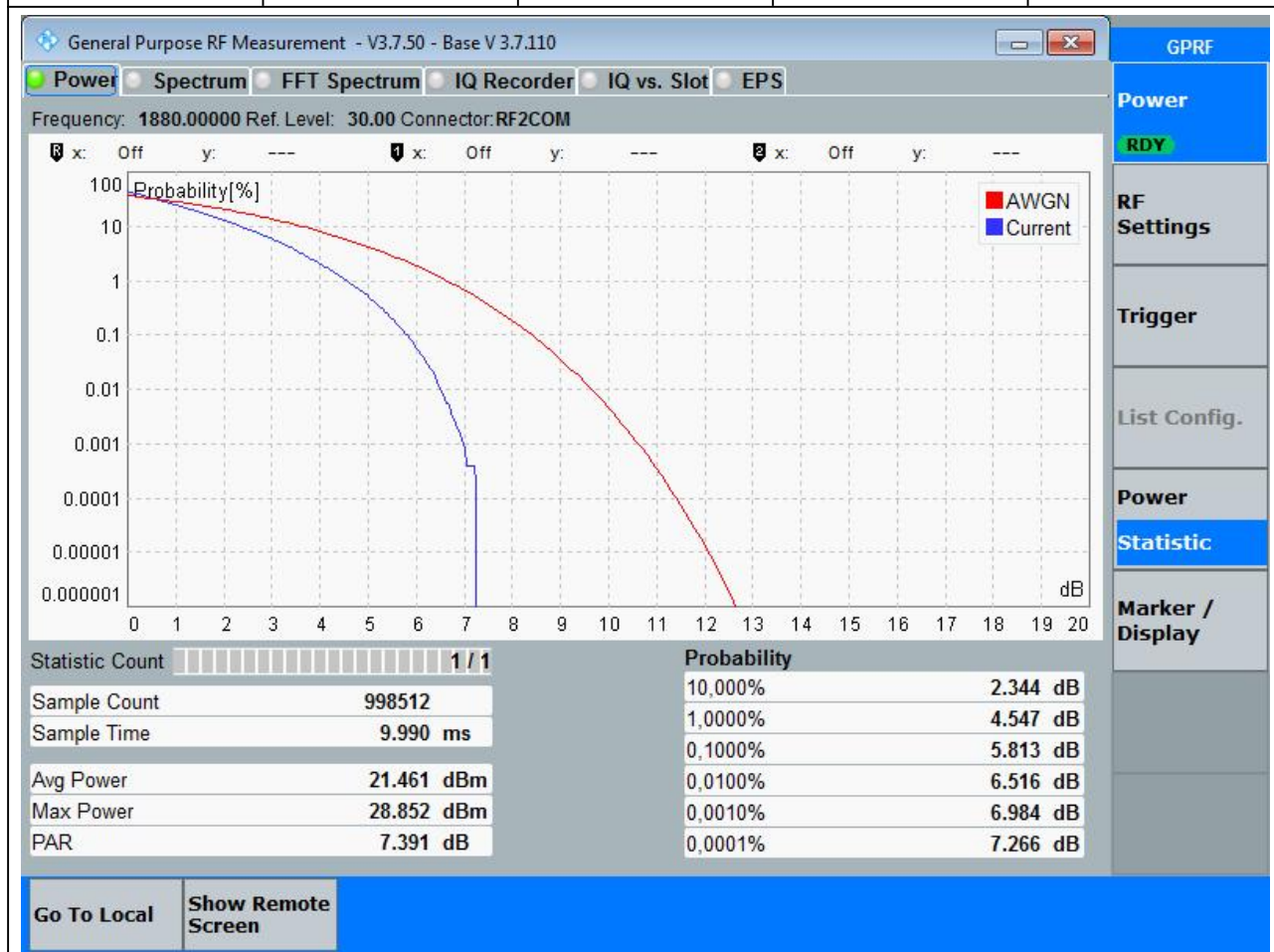
4.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	5.53	13	Pass



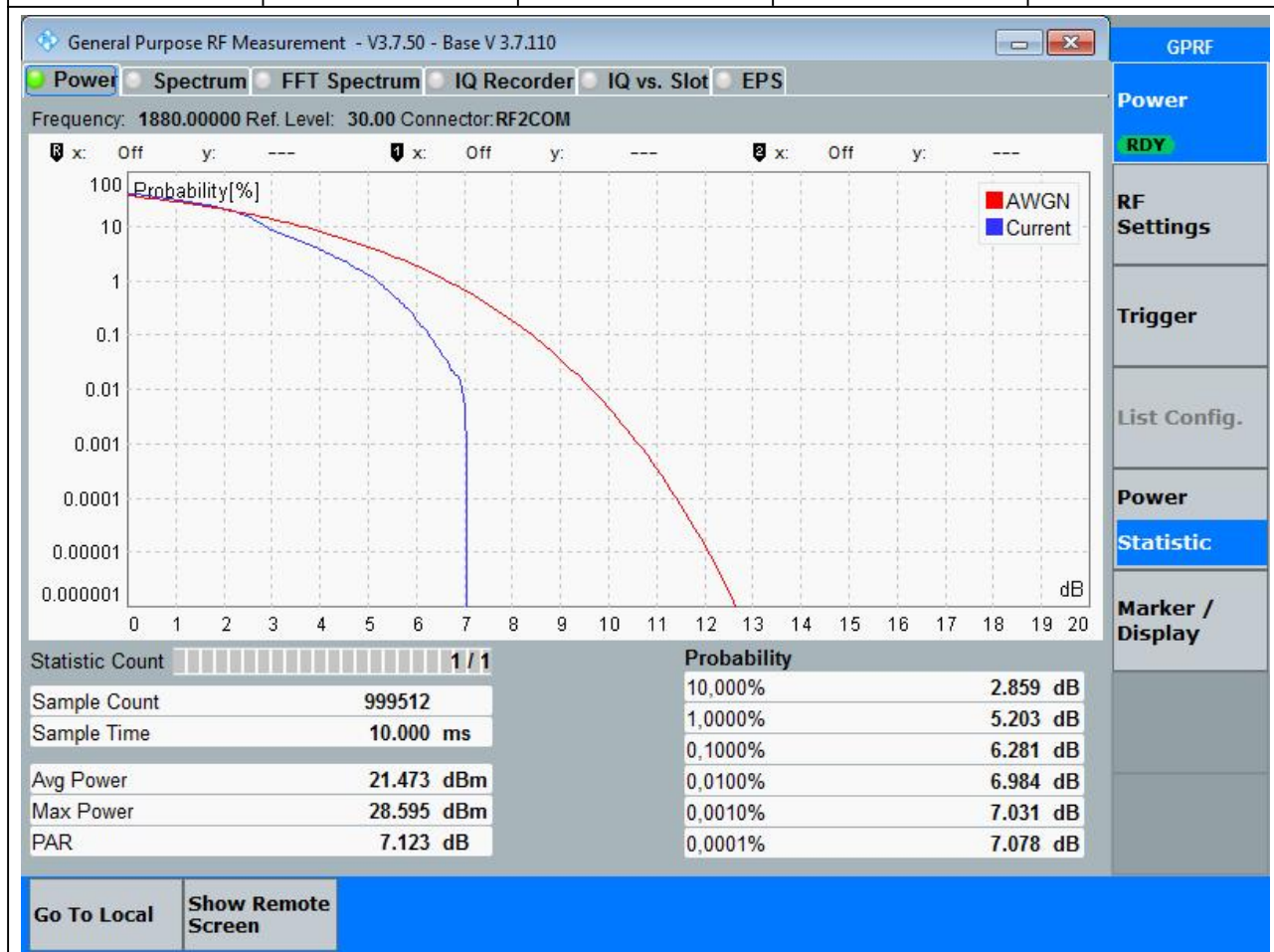
4.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	5.81	13	Pass



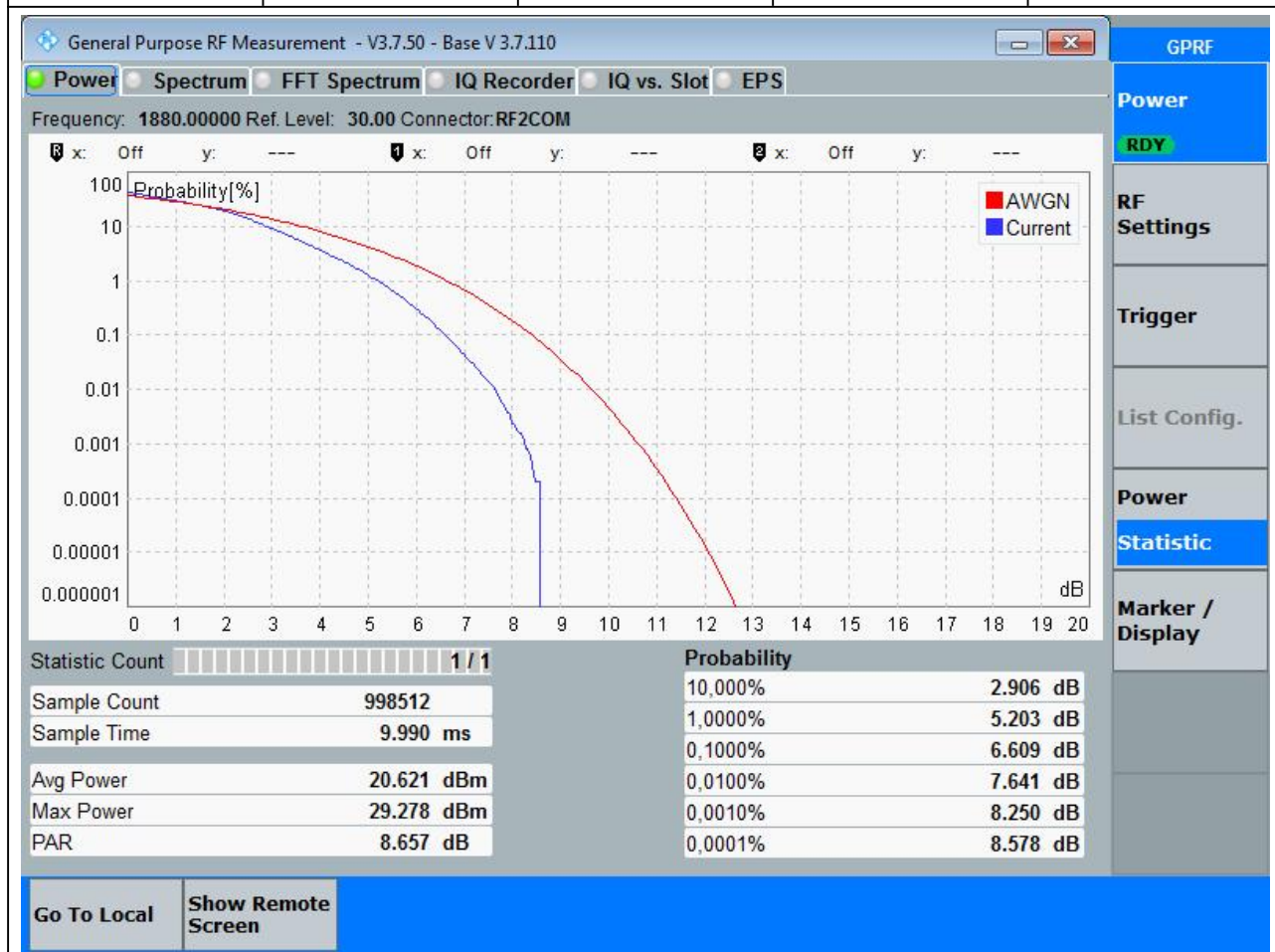
4.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	6.28	13	Pass



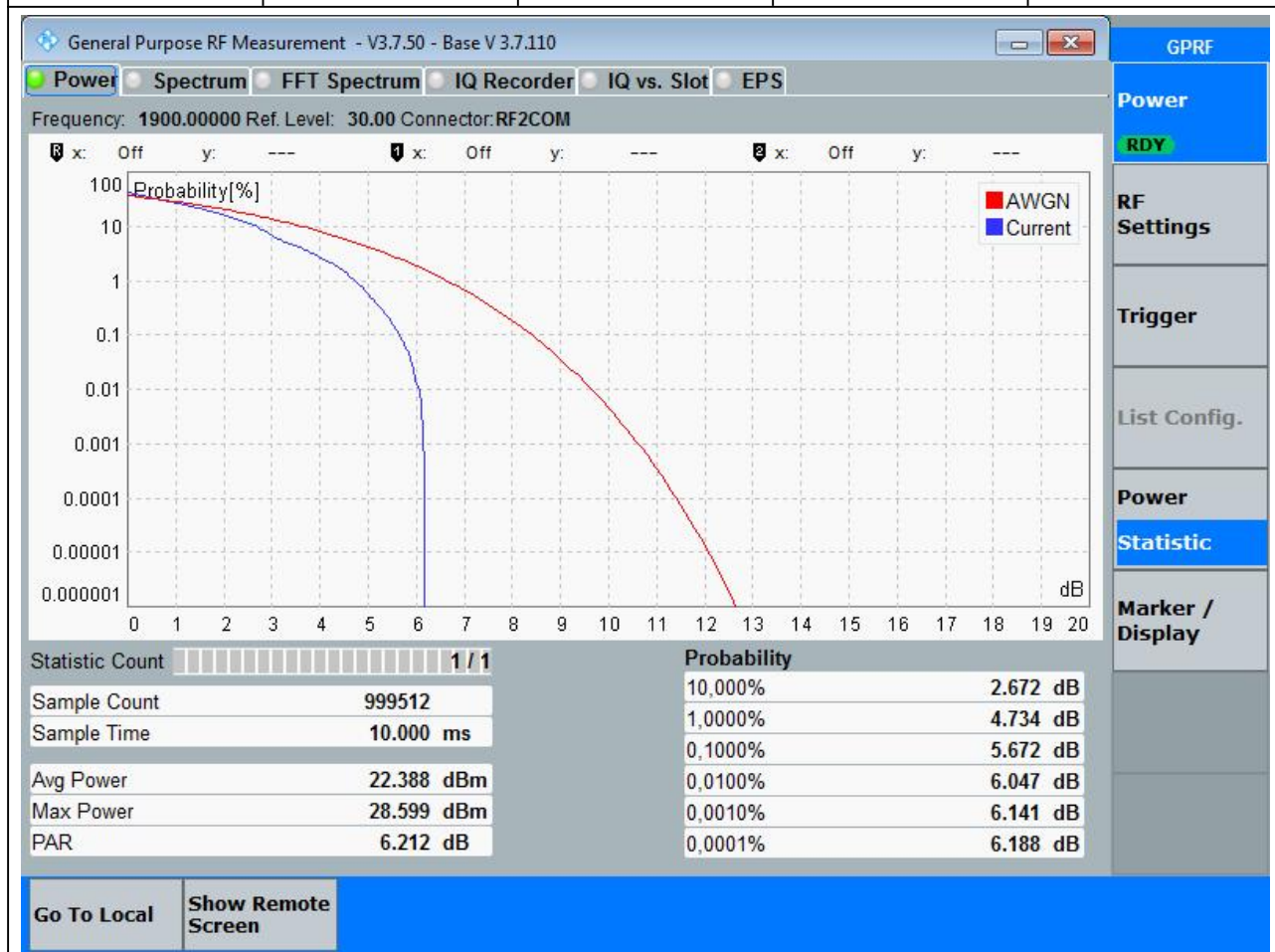
4.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	6.61	13	Pass



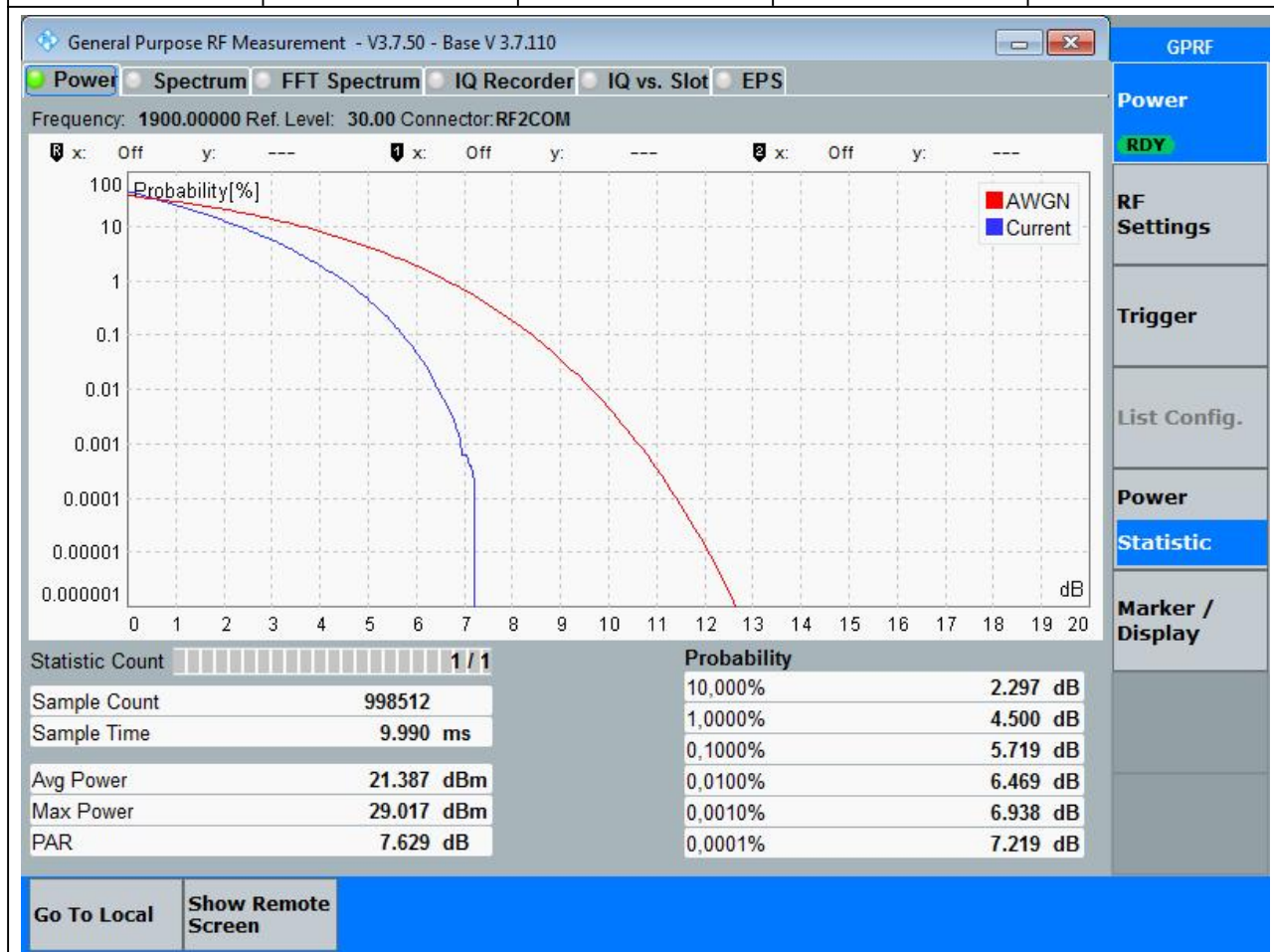
4.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	5.67	13	Pass



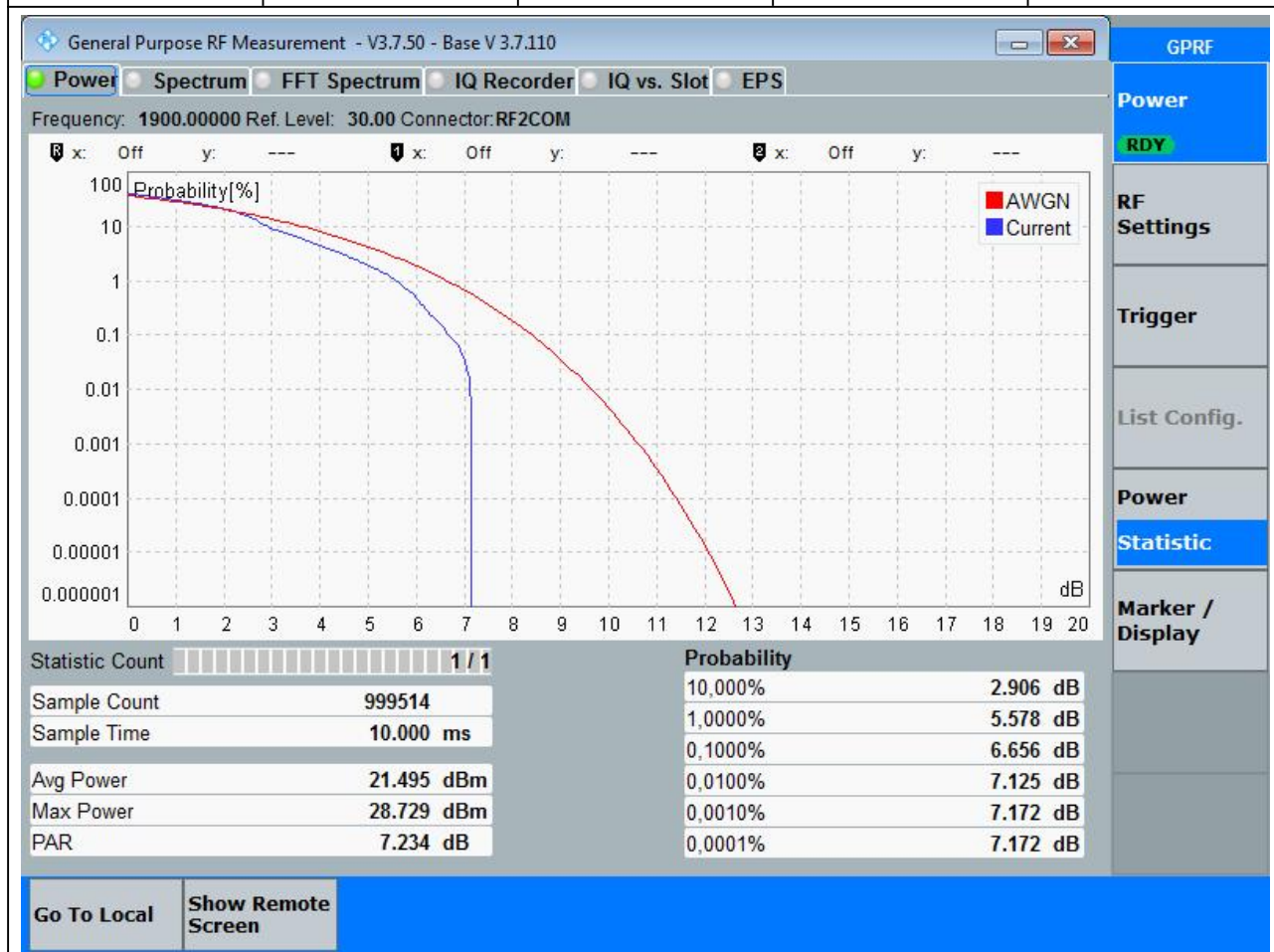
4.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	5.72	13	Pass



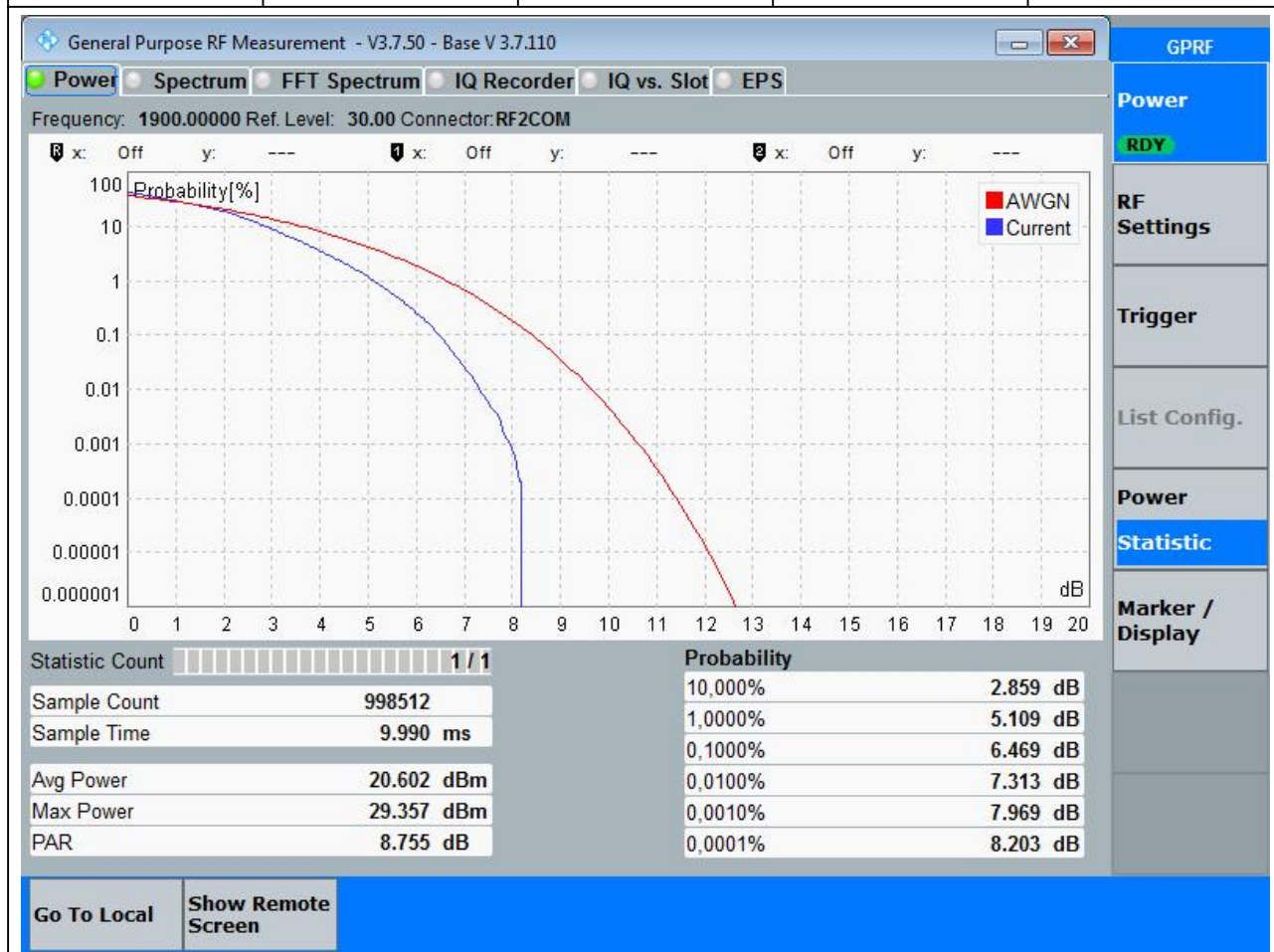
4.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	6.66	13	Pass



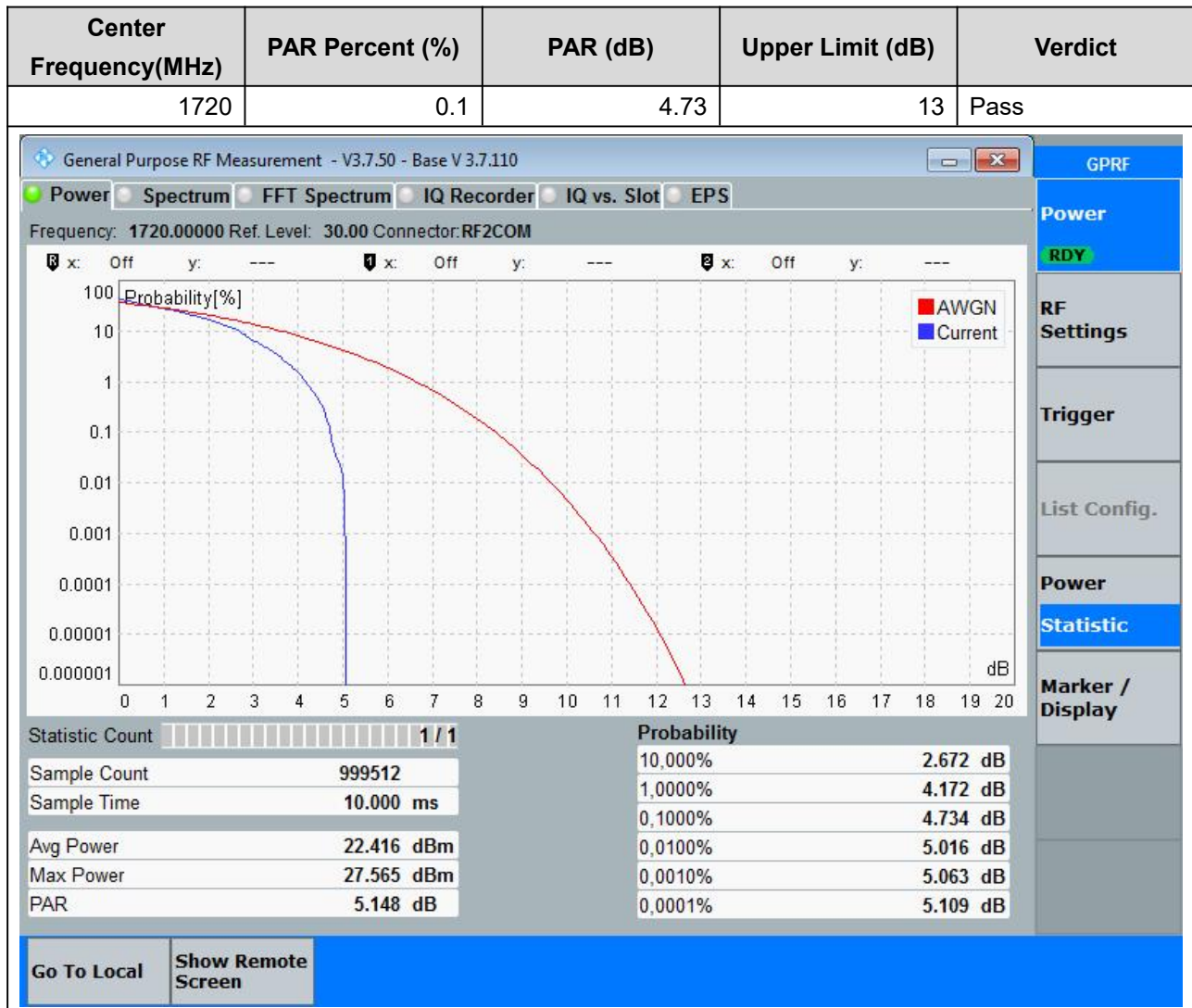
4.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	6.47	13	Pass



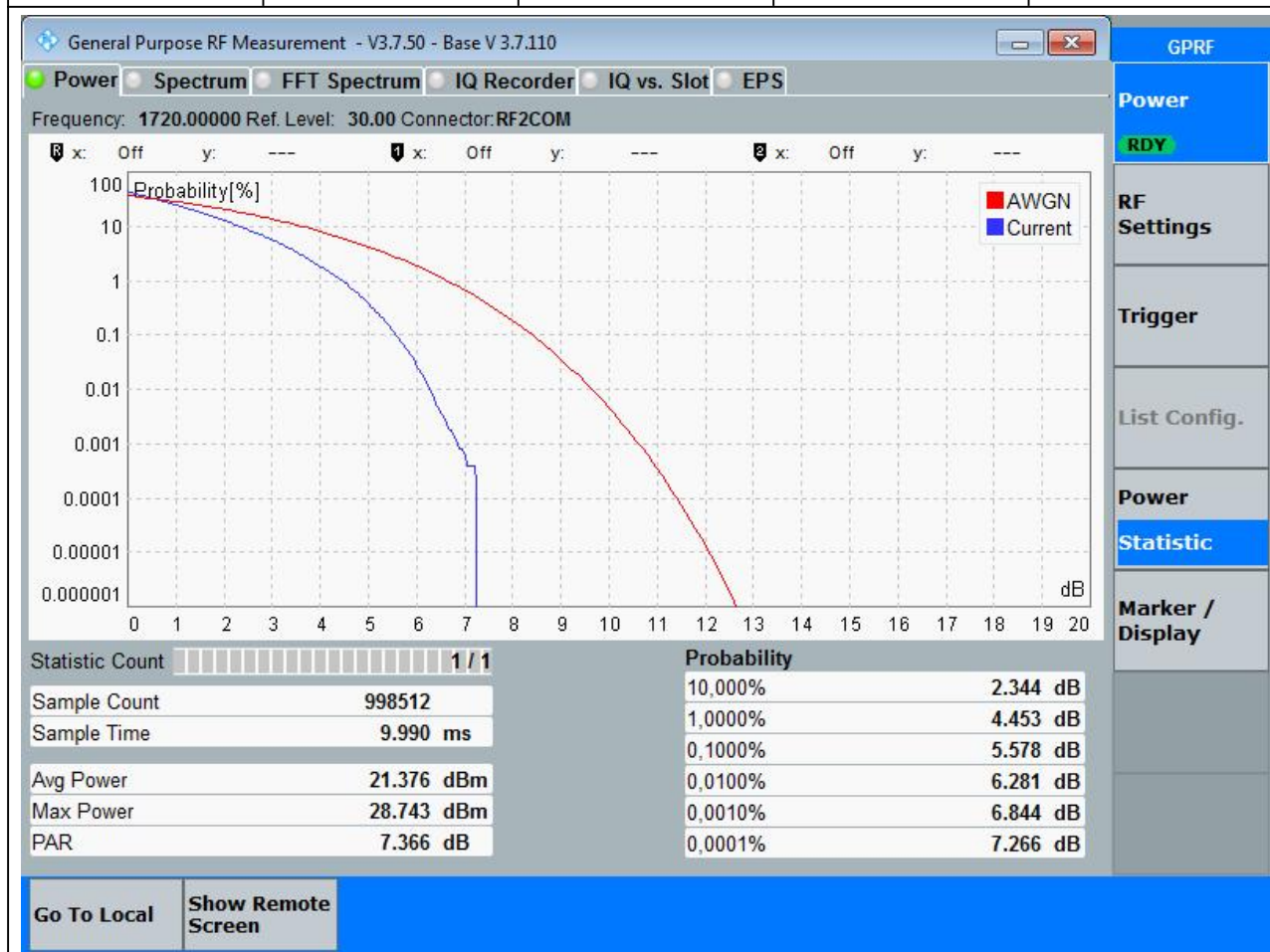
5. LTE_Band4

5.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



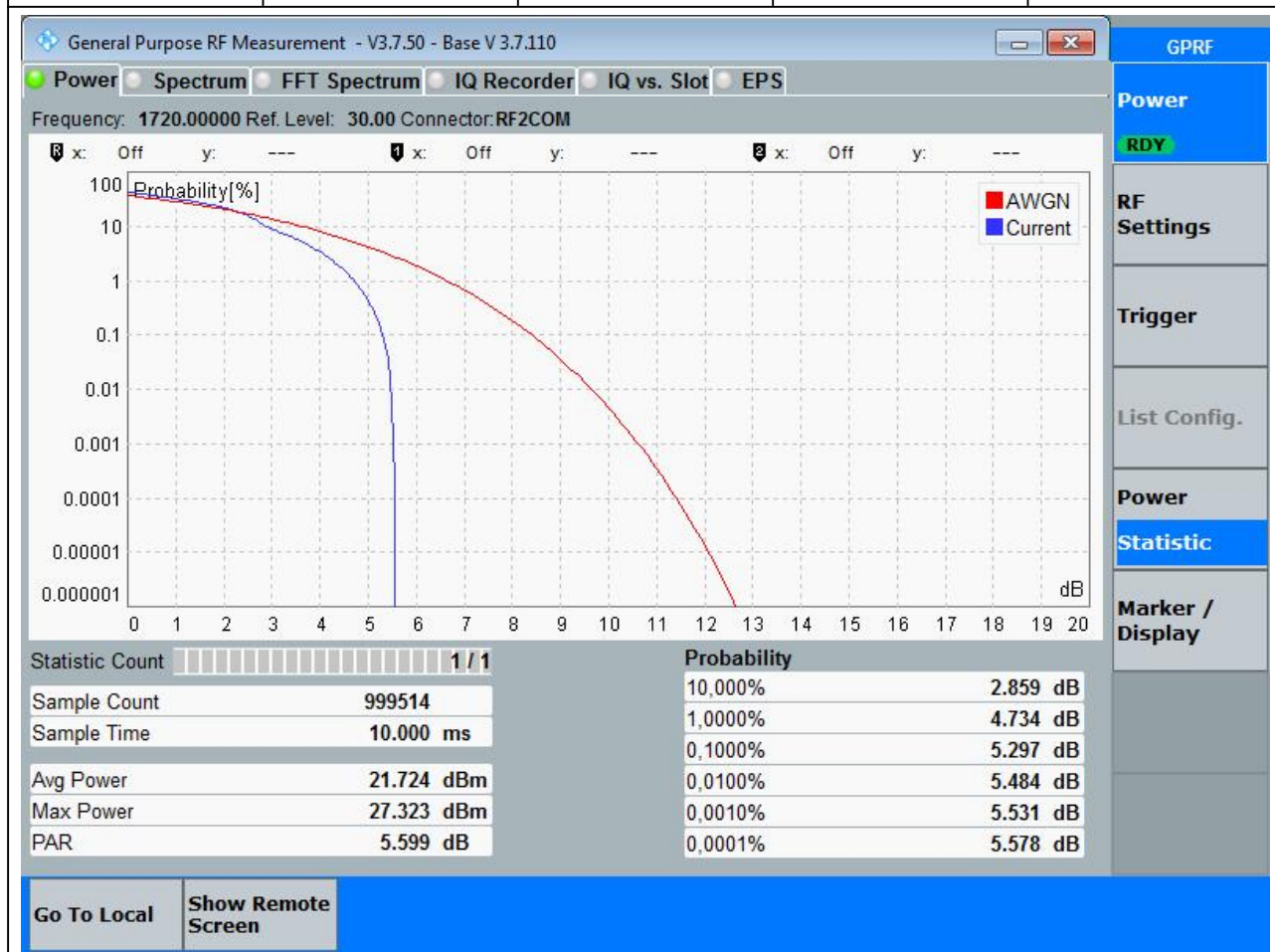
5.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	5.58	13	Pass



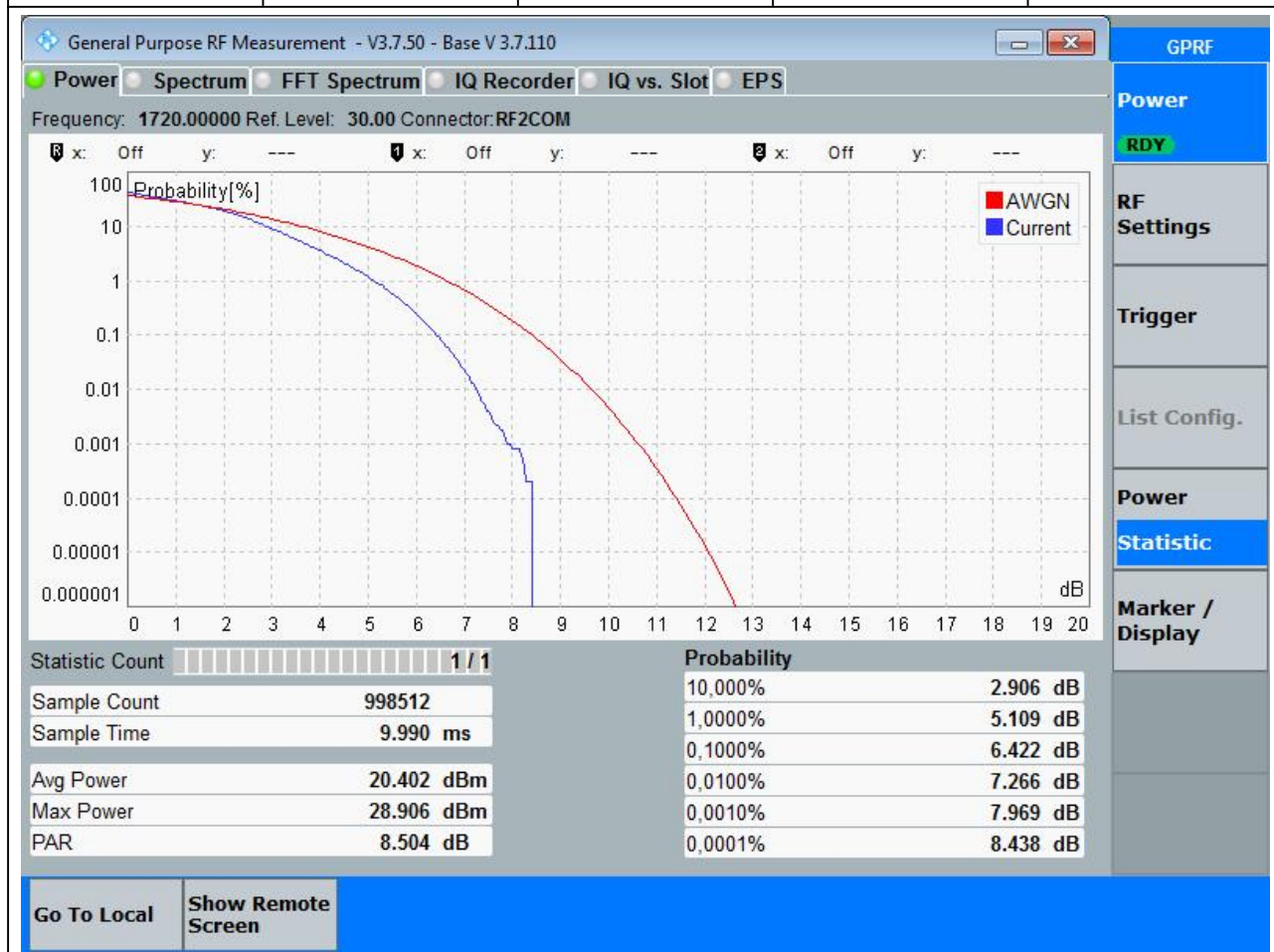
5.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	5.3	13	Pass



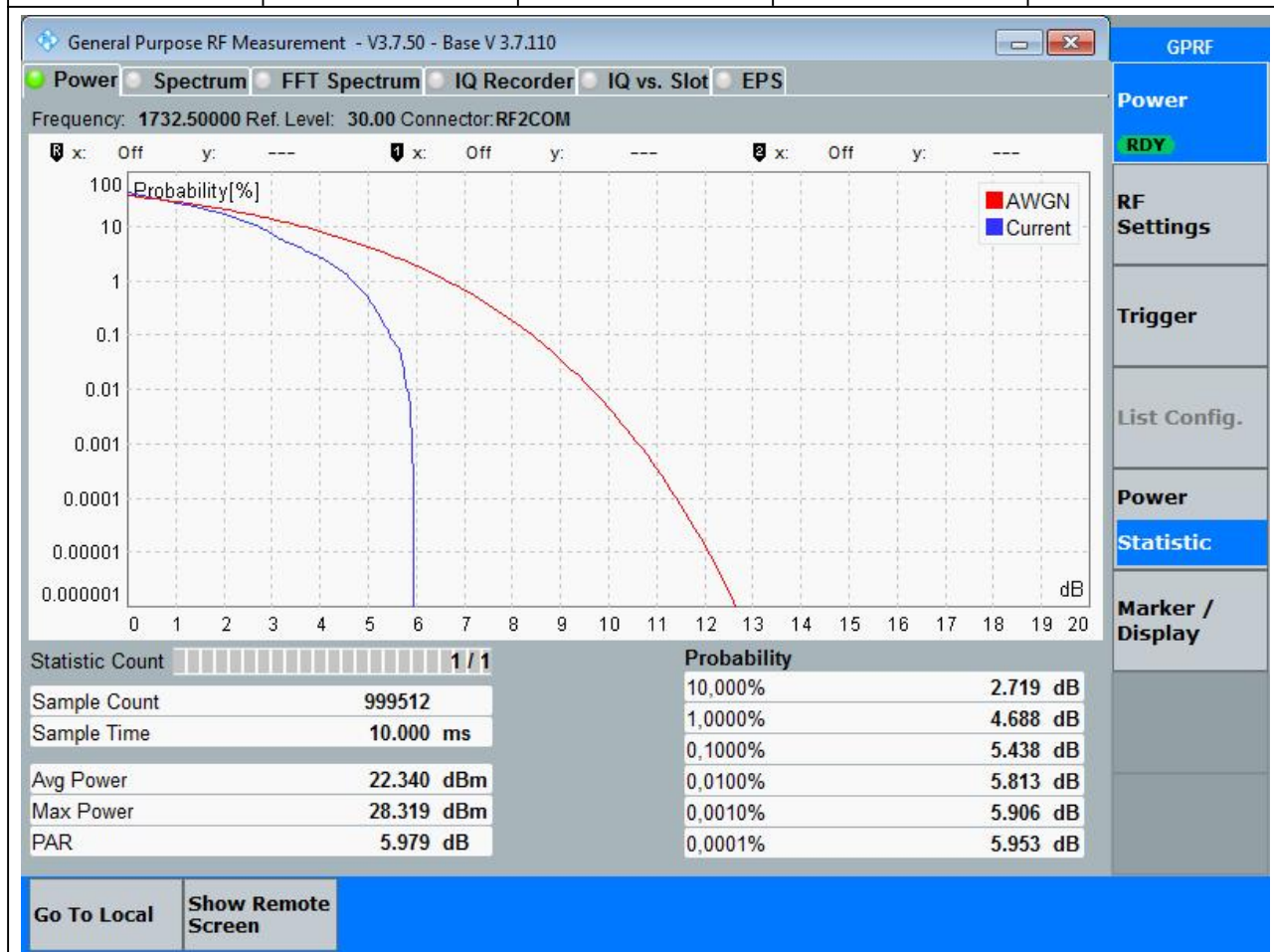
5.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	6.42	13	Pass



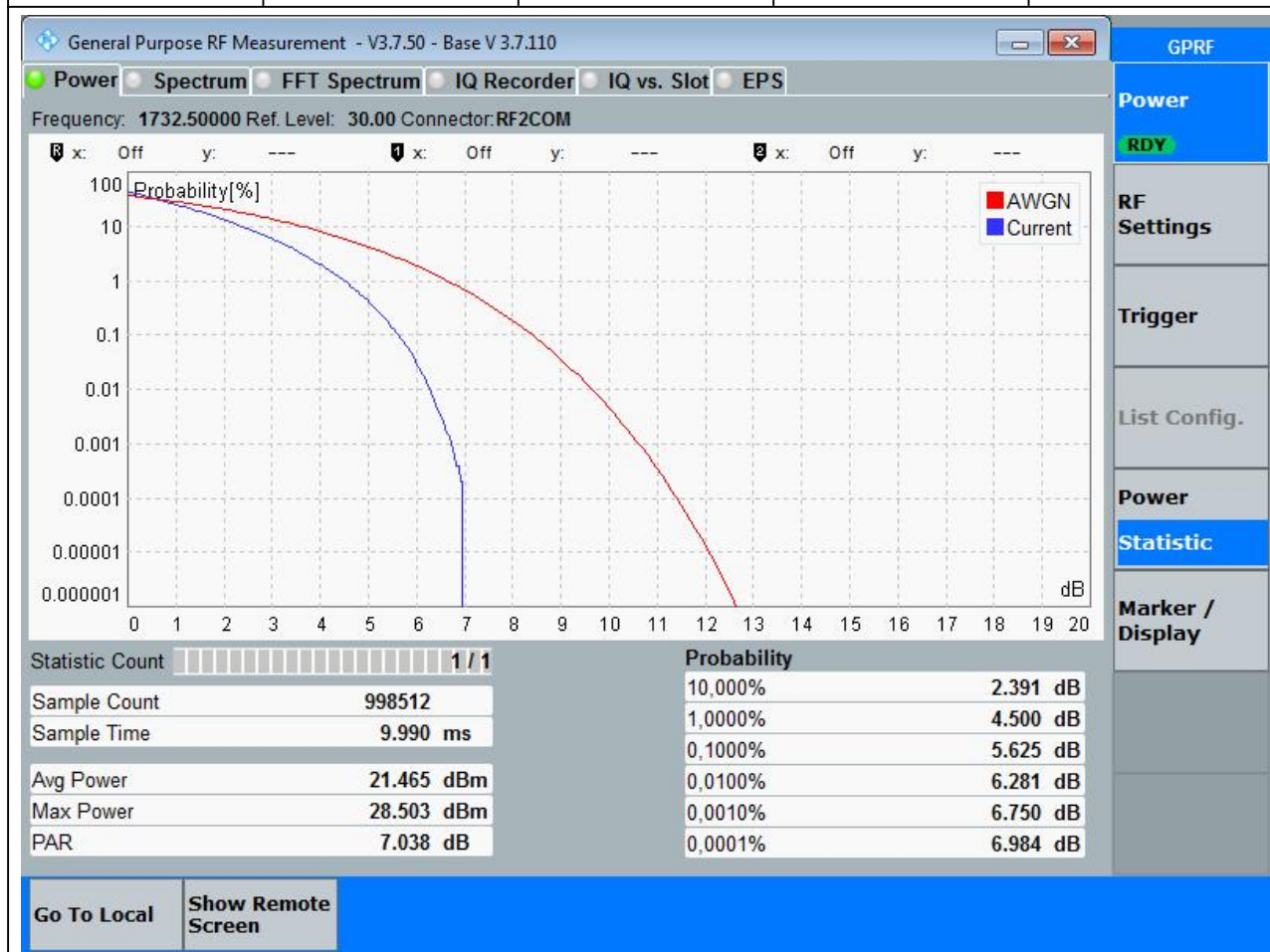
5.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	5.44	13	Pass



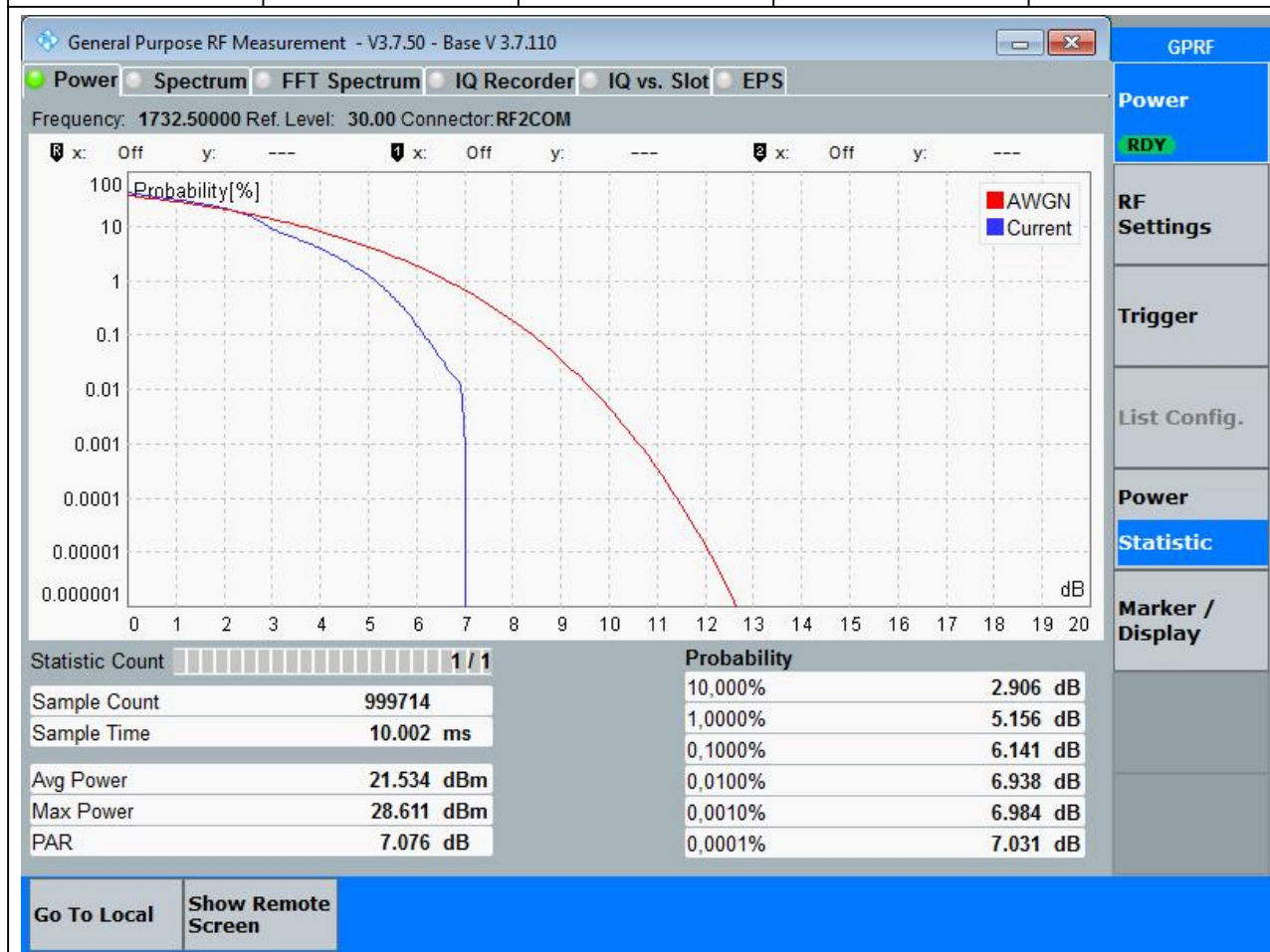
5.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	5.62	13	Pass



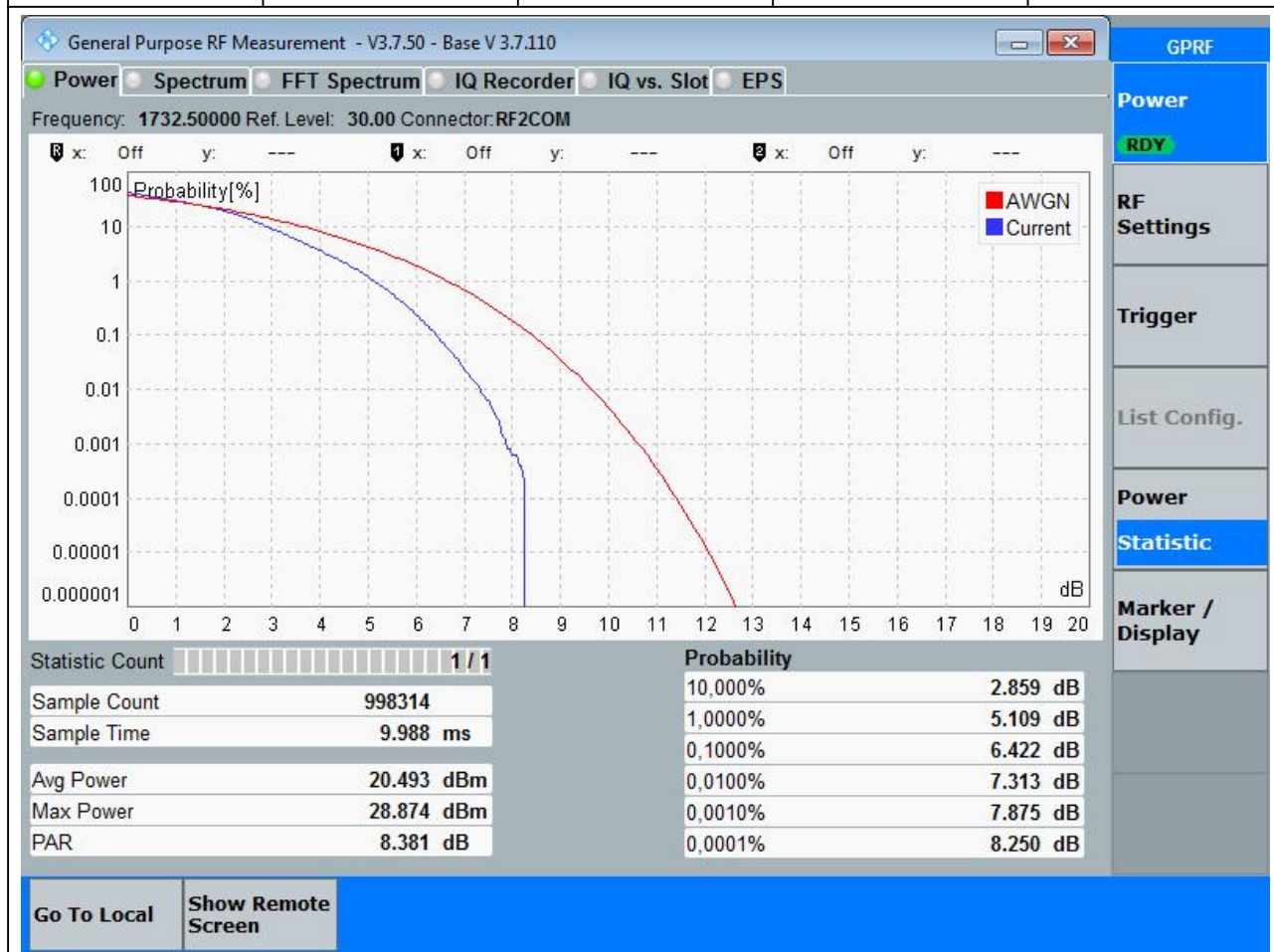
5.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	6.14	13	Pass



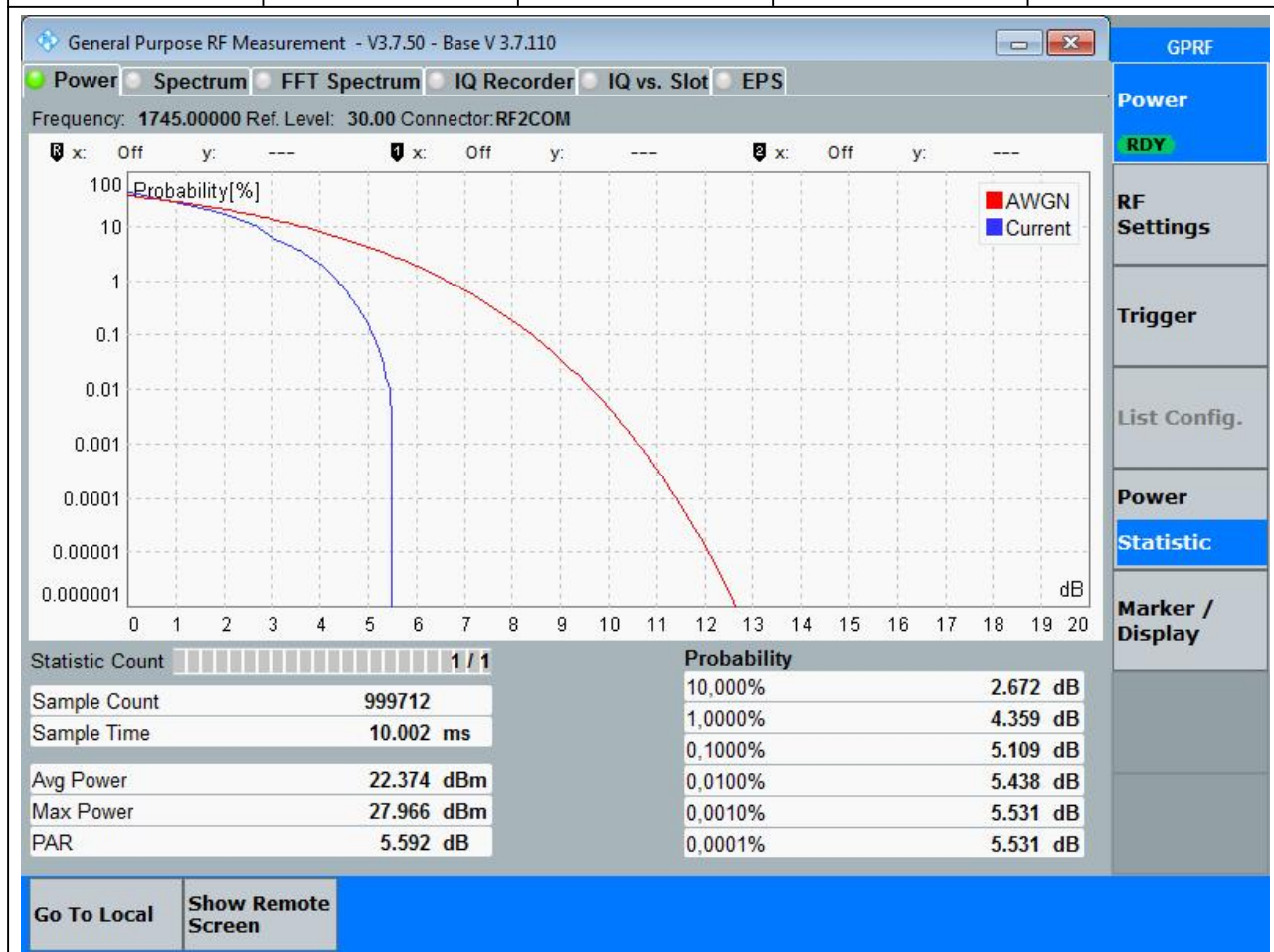
5.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	6.42	13	Pass



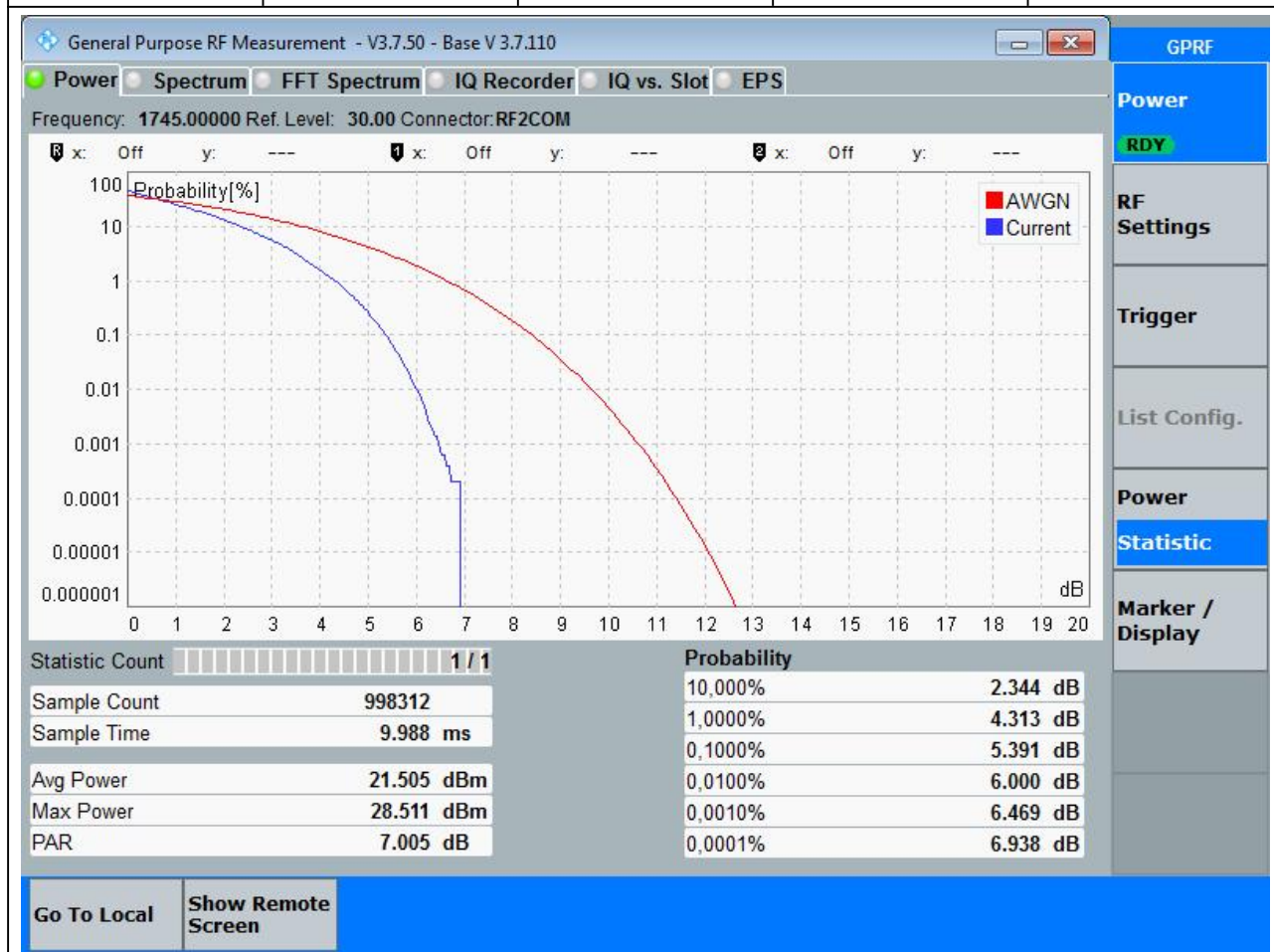
5.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	5.11	13	Pass



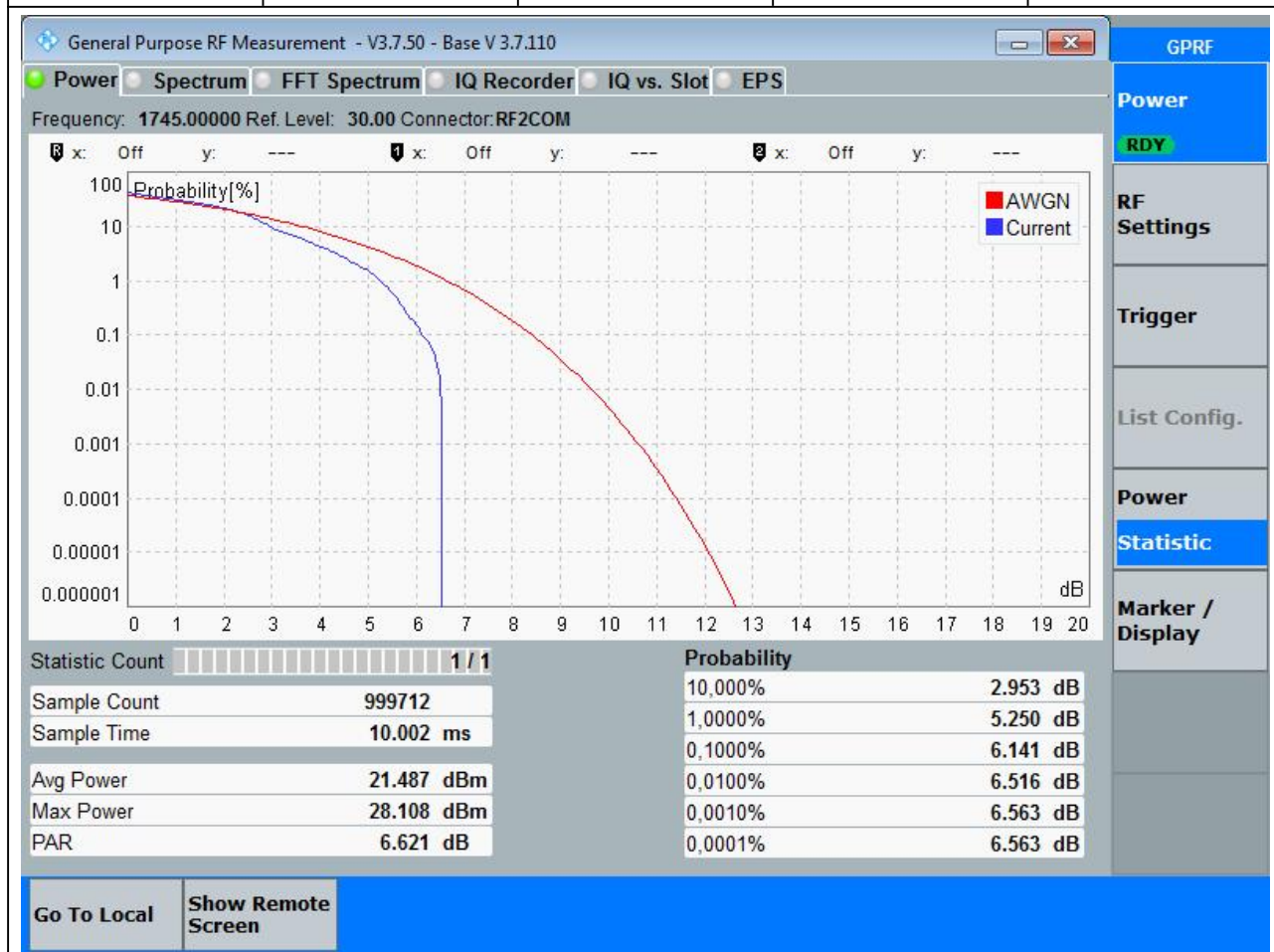
5.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	5.39	13	Pass



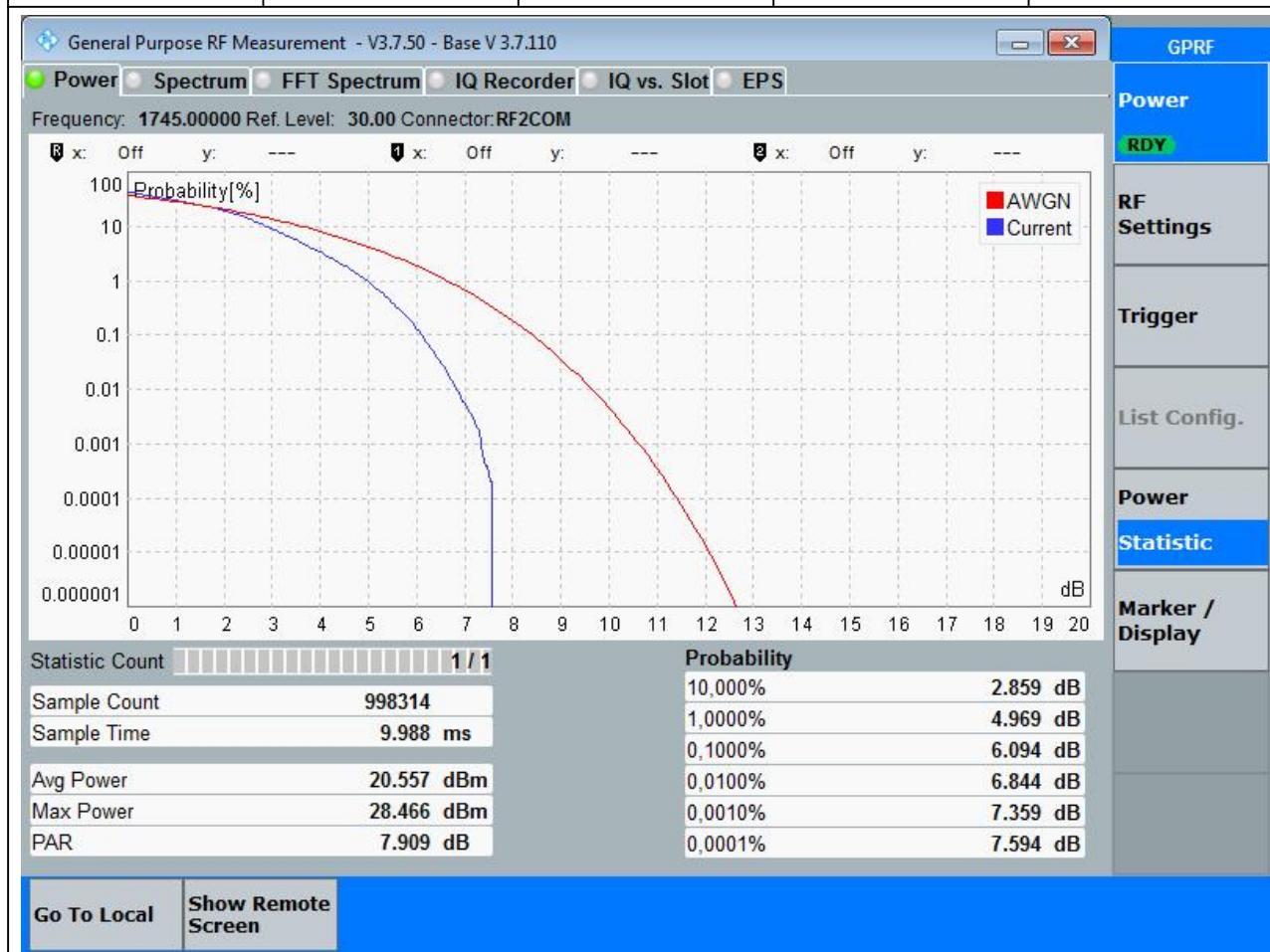
5.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	6.14	13	Pass



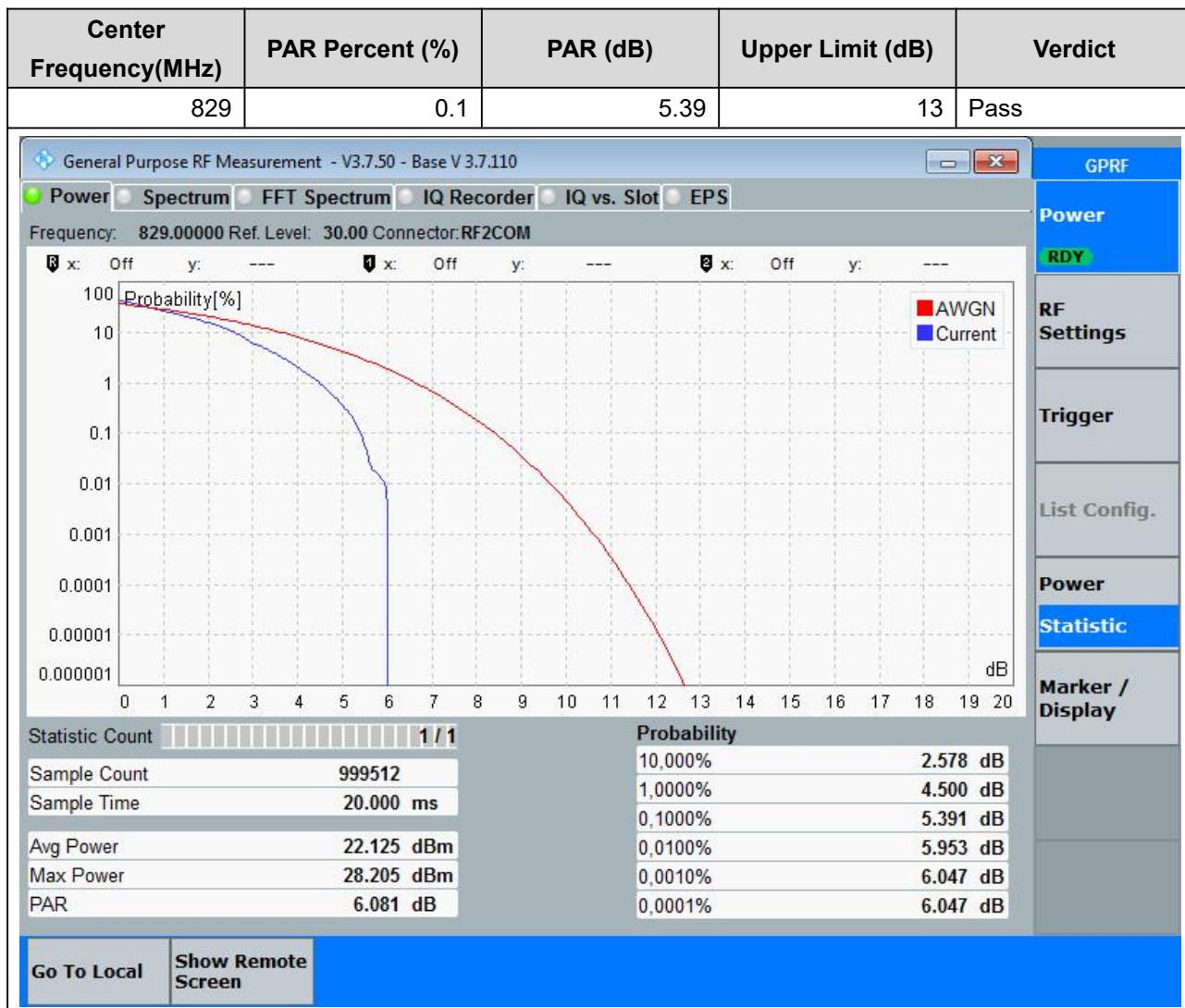
5.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	6.09	13	Pass



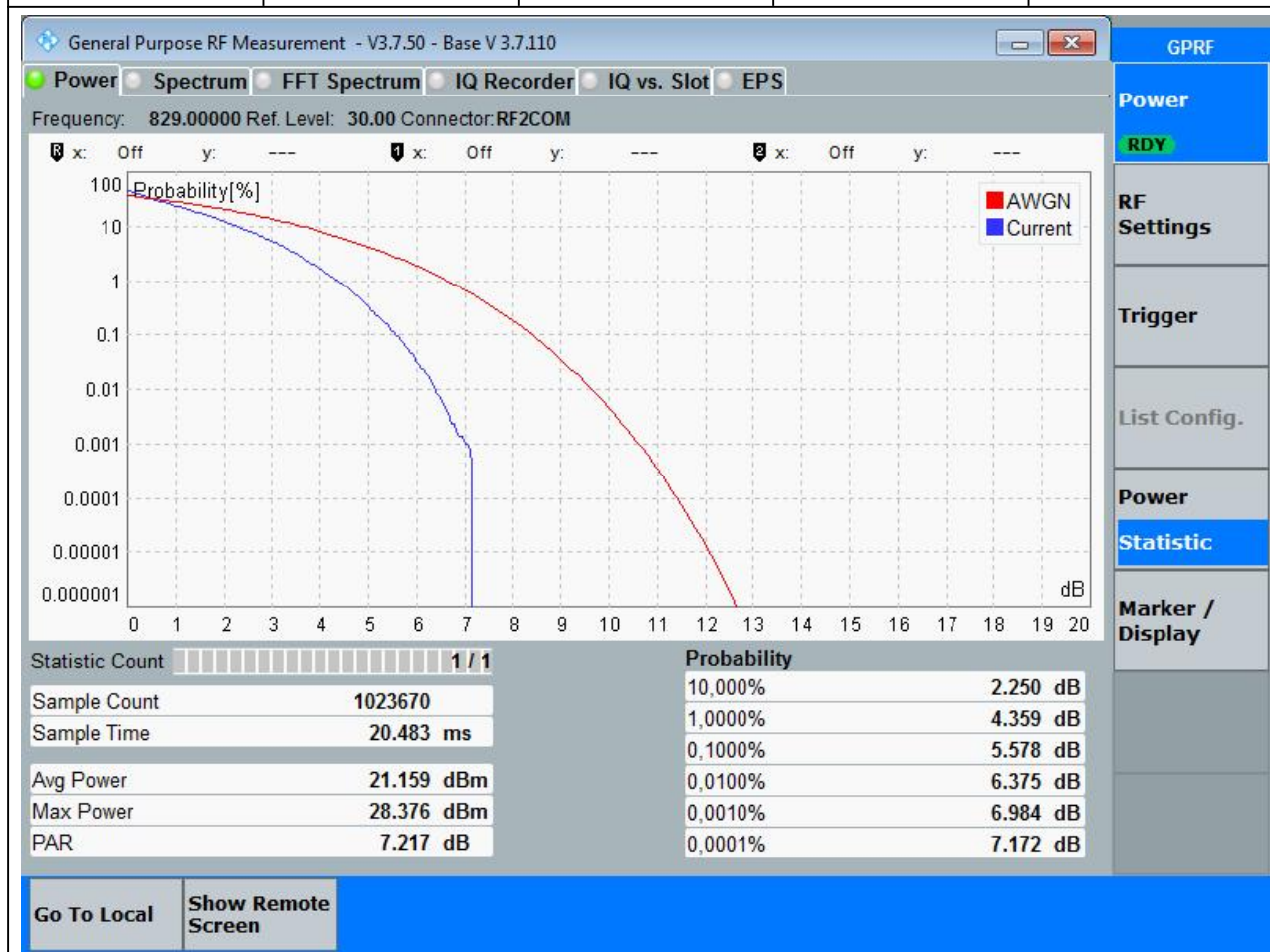
6. LTE_Band5

6.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



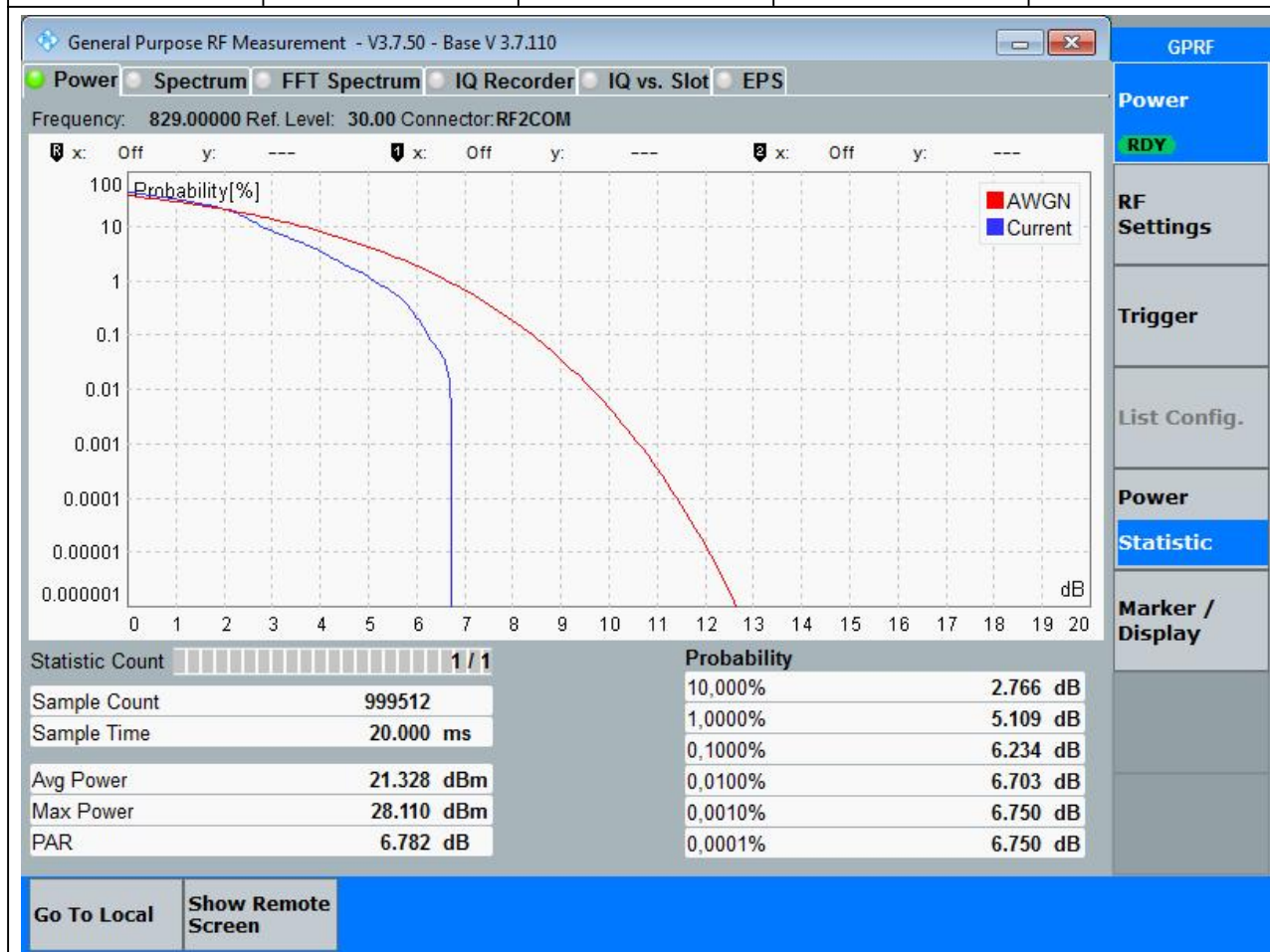
6.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	5.58	13	Pass



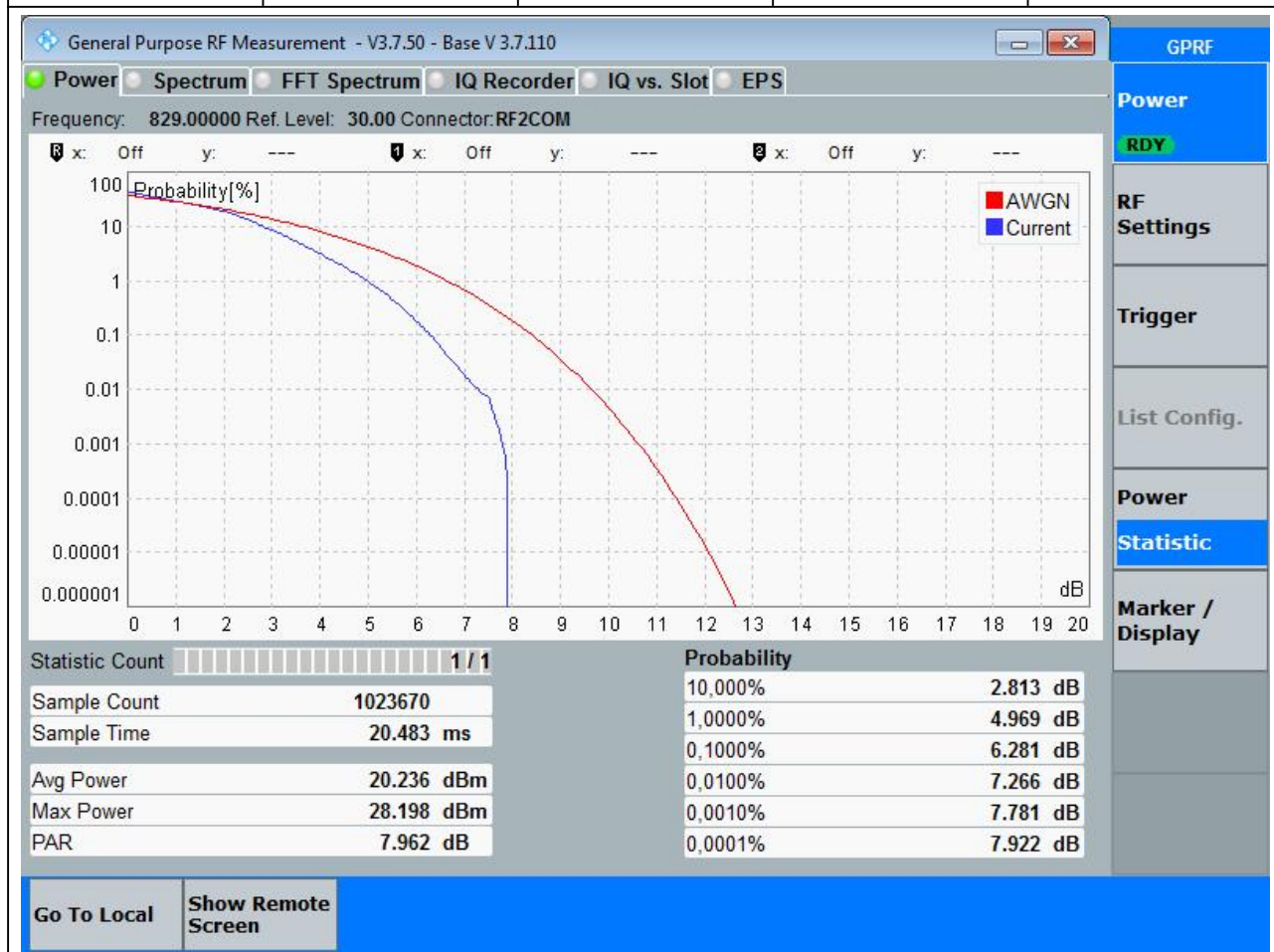
6.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	6.23	13	Pass



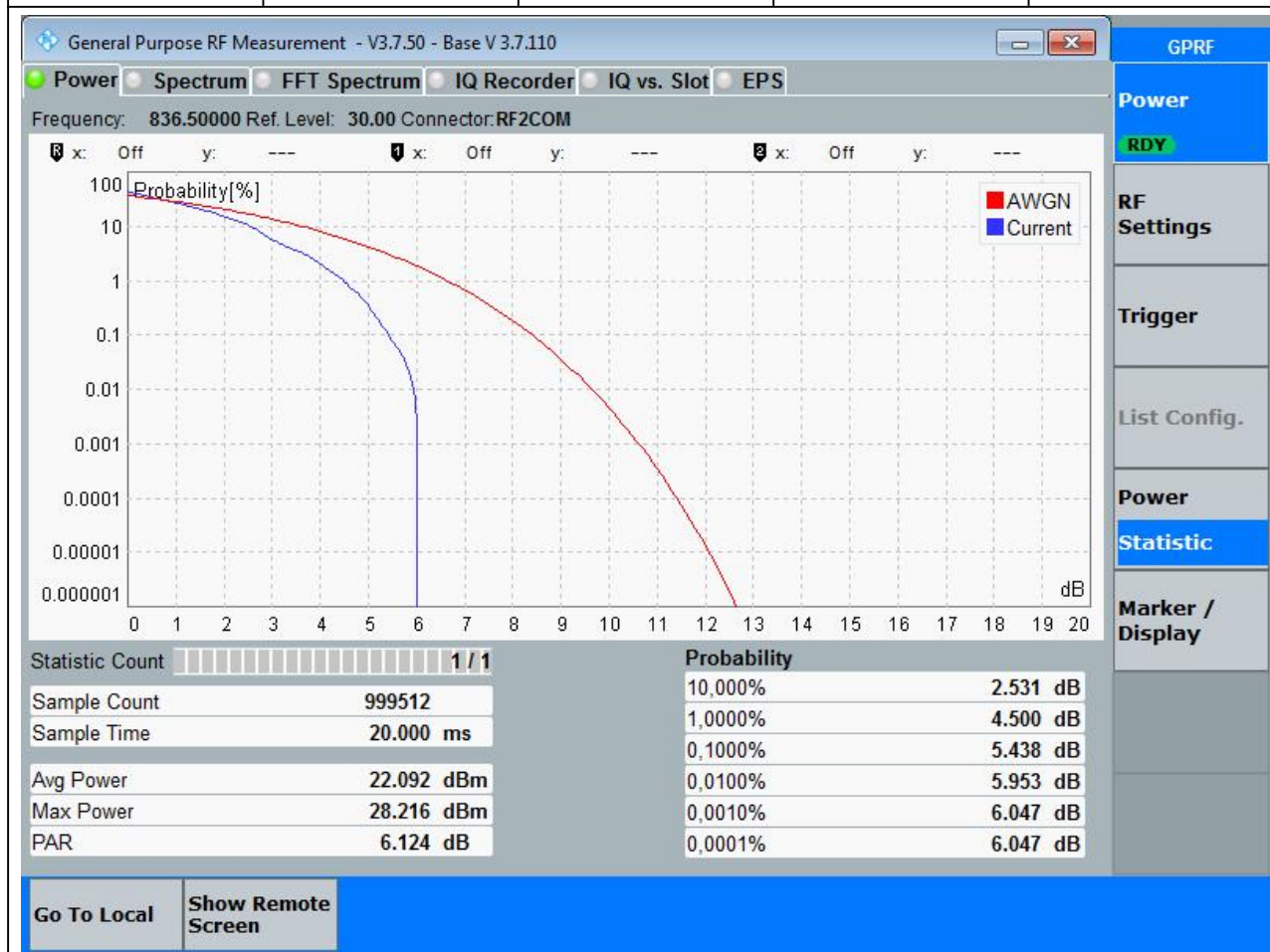
6.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	6.28	13	Pass



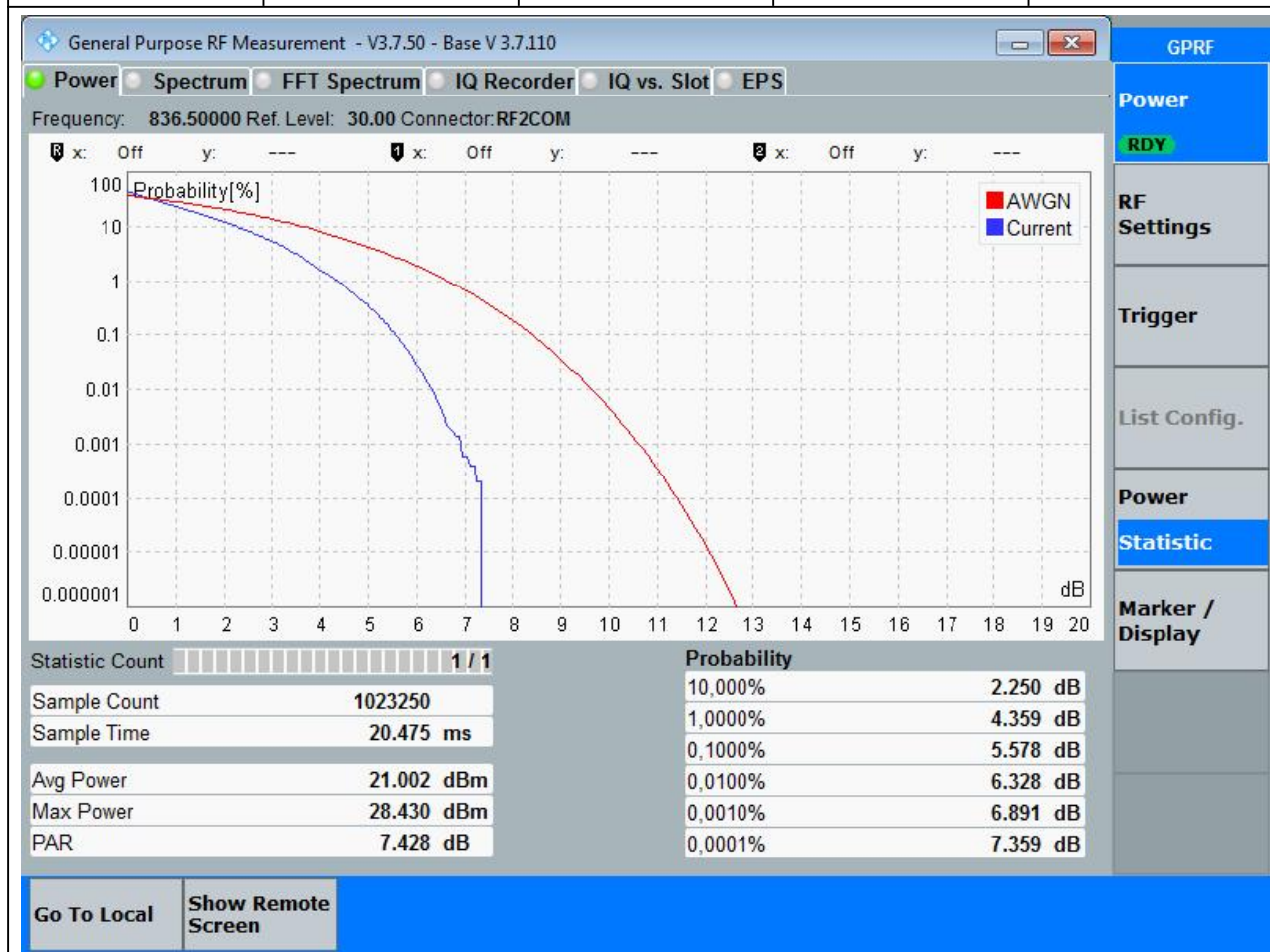
6.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	5.44	13	Pass



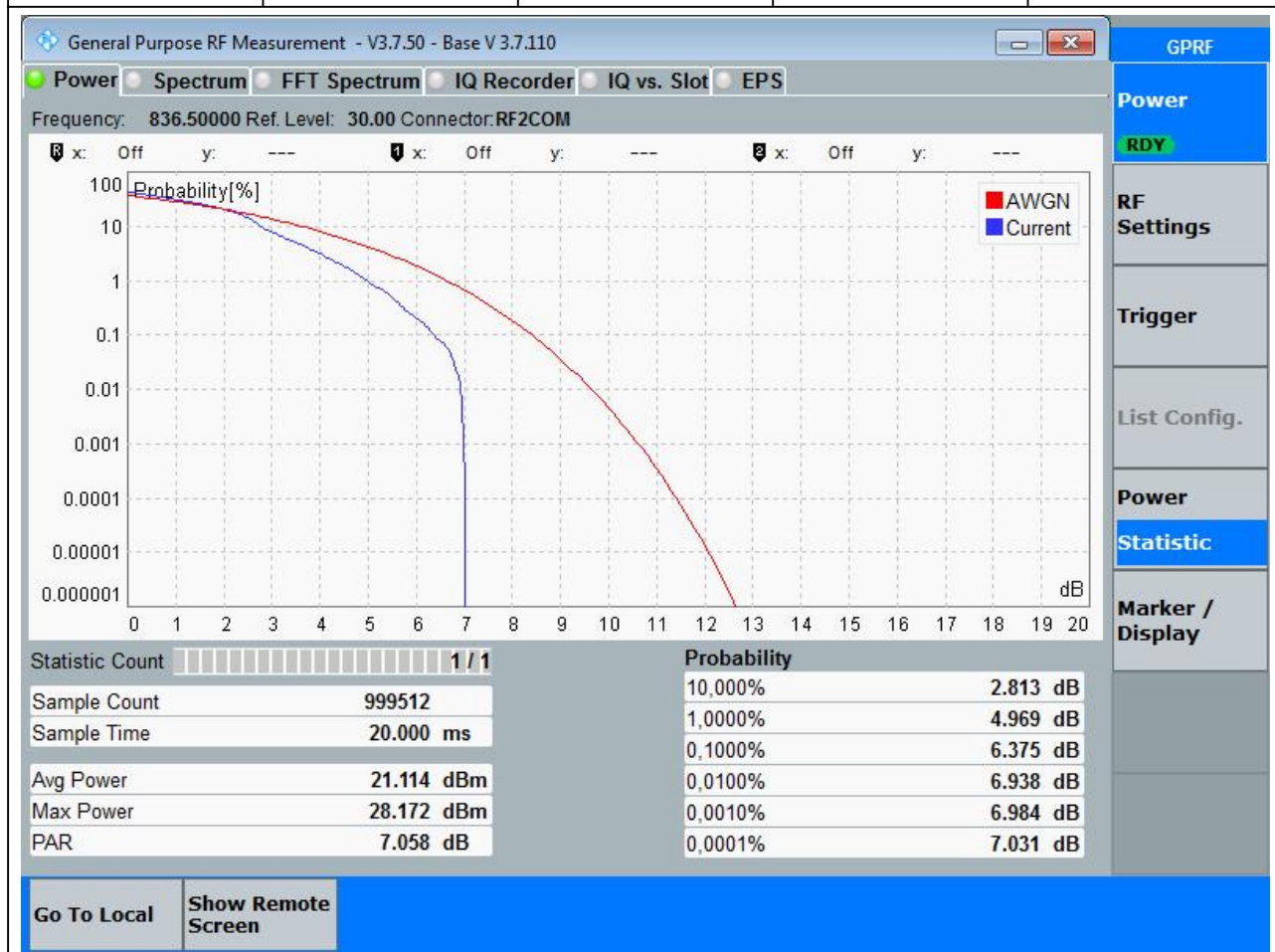
6.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	5.58	13	Pass



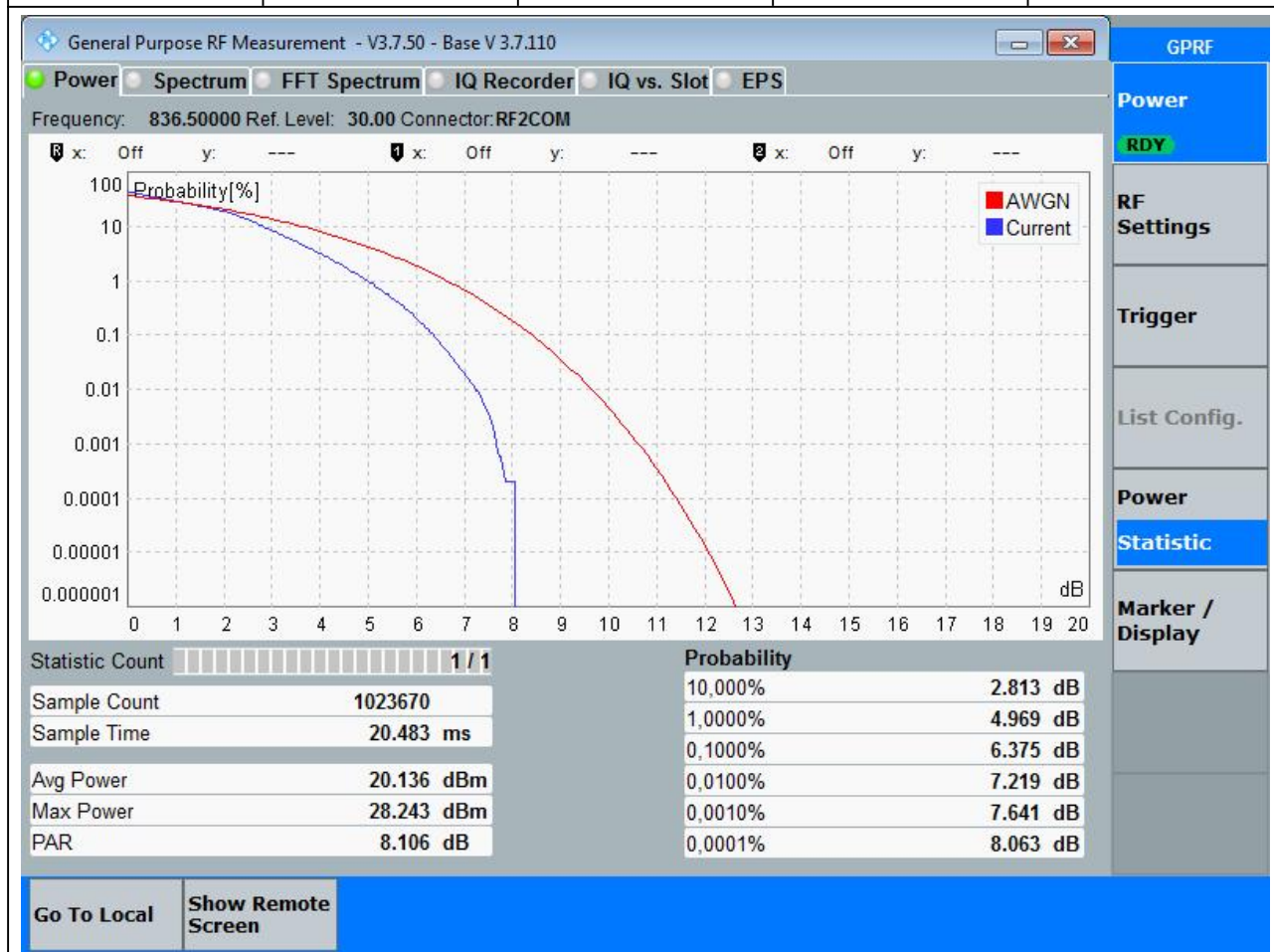
6.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	6.37	13	Pass



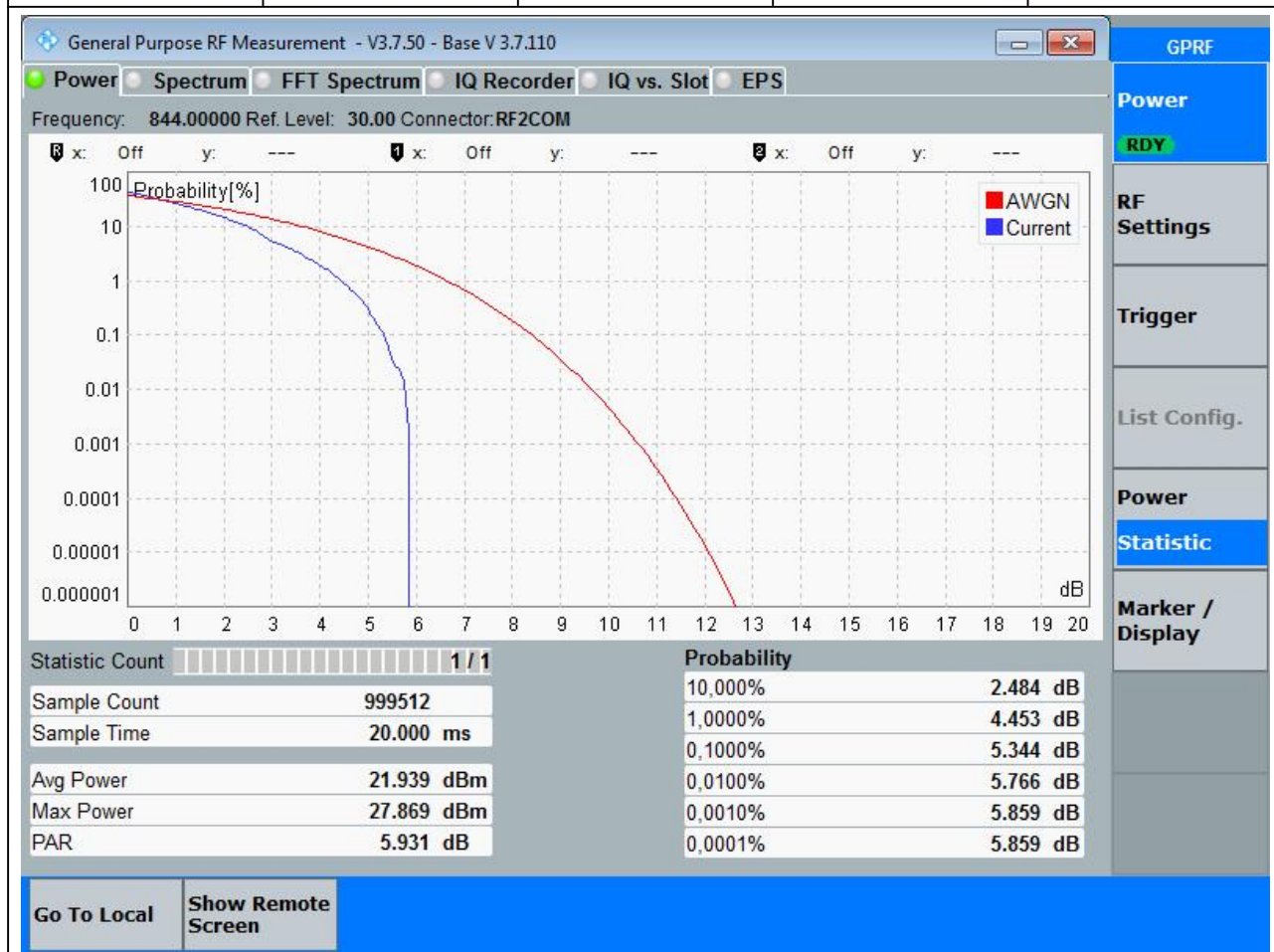
6.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	6.37	13	Pass



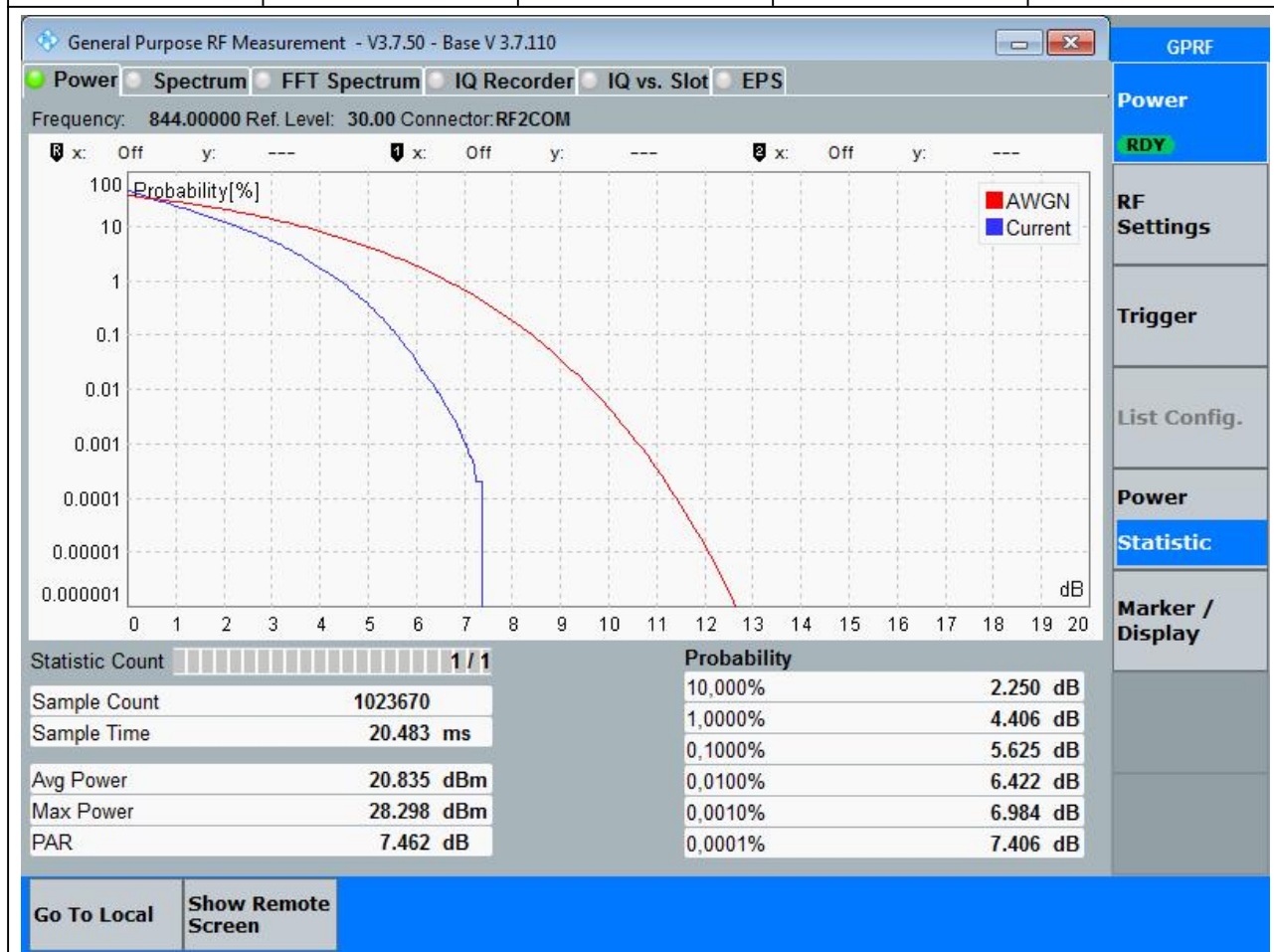
6.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	5.34	13	Pass



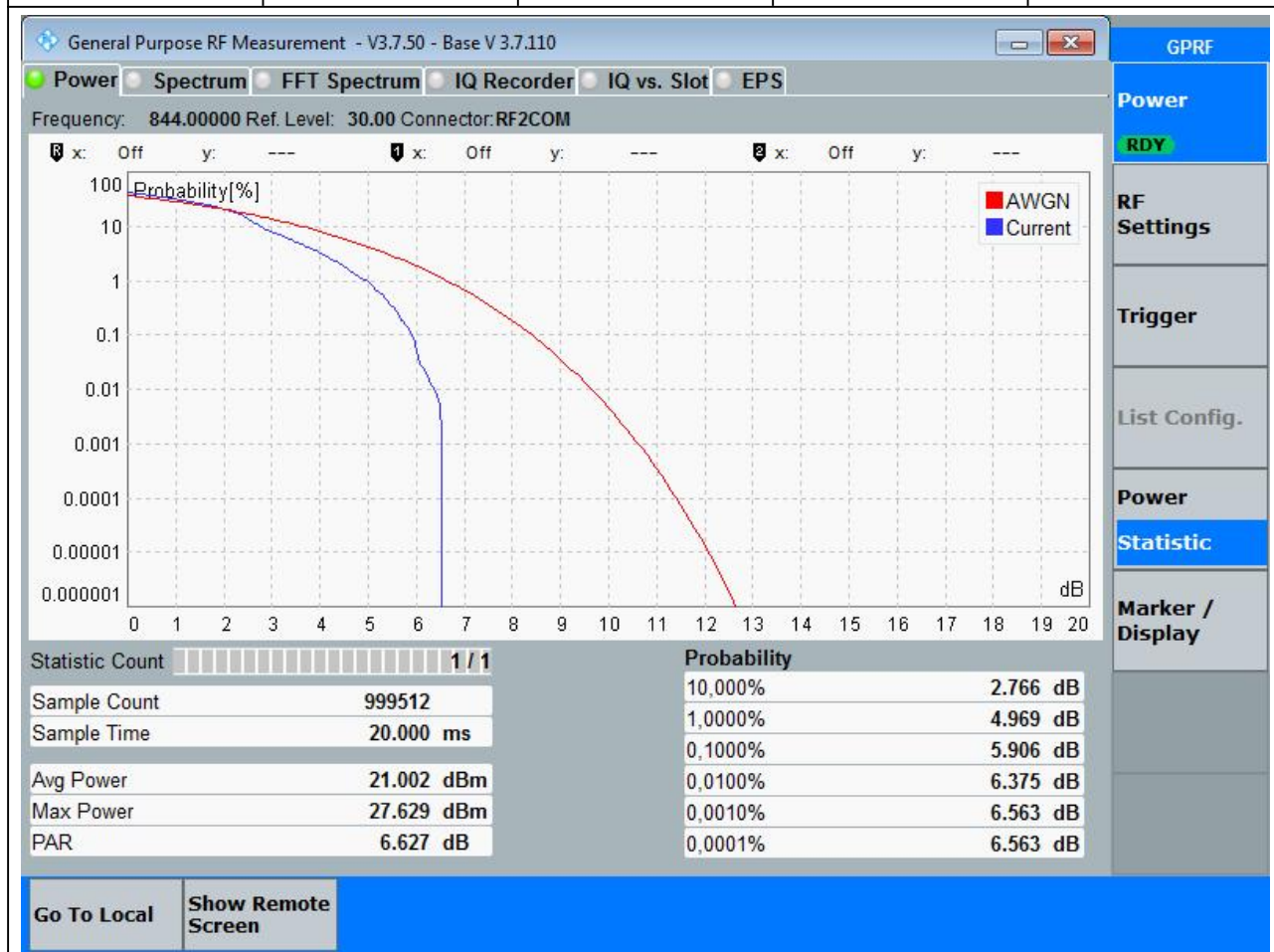
6.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	5.62	13	Pass



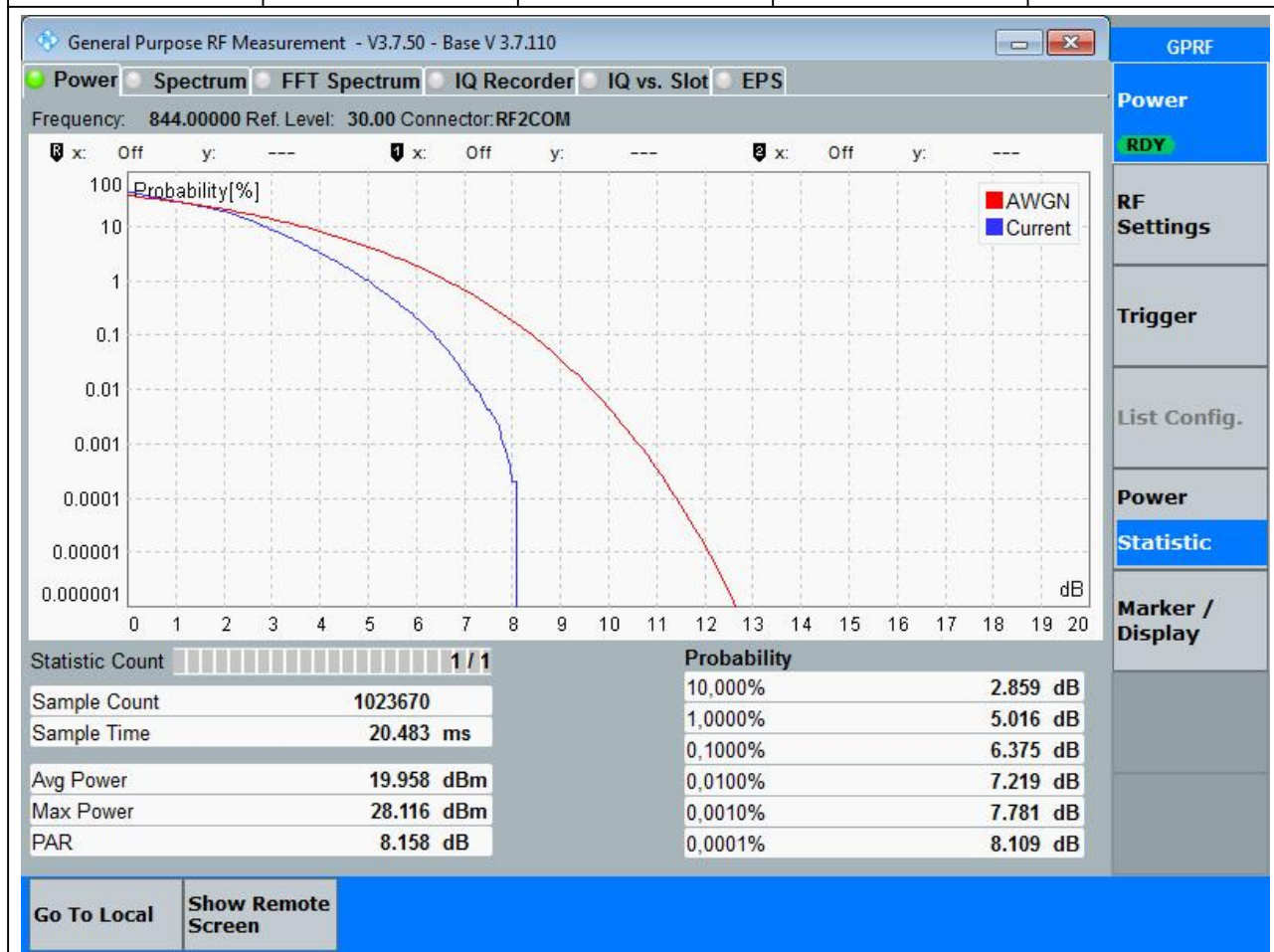
6.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	5.91	13	Pass



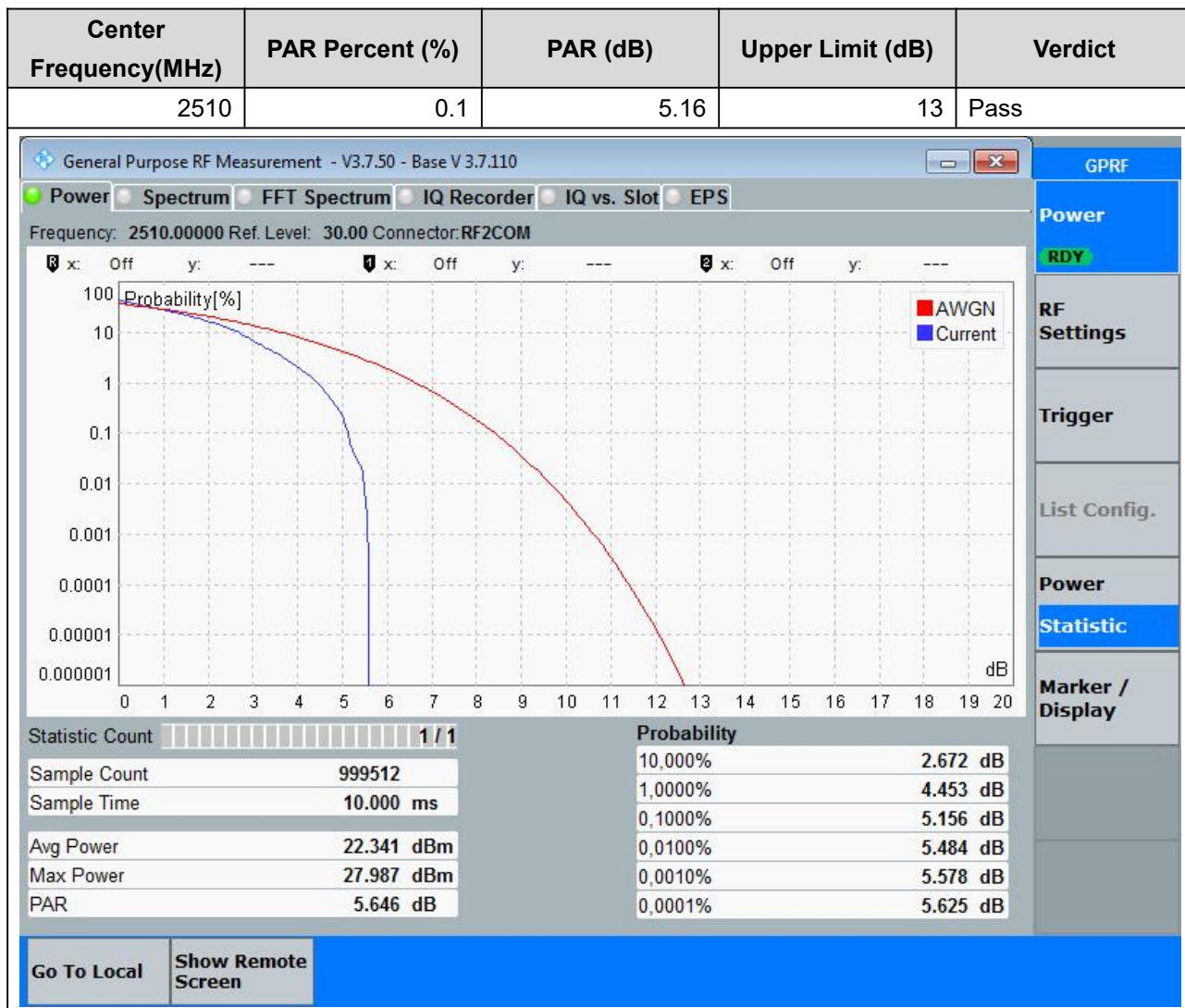
6.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	6.37	13	Pass



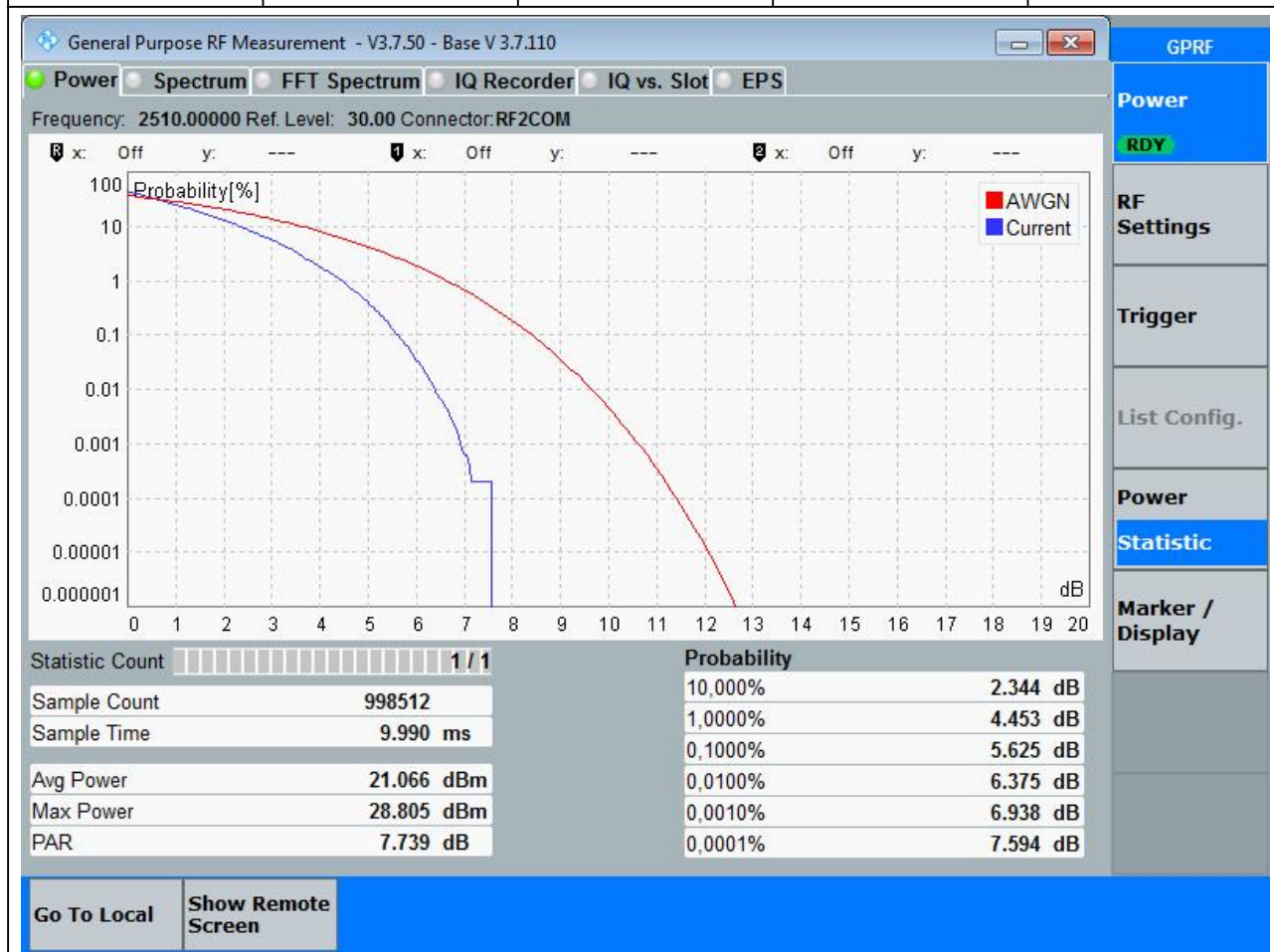
7. LTE_Band7

7.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



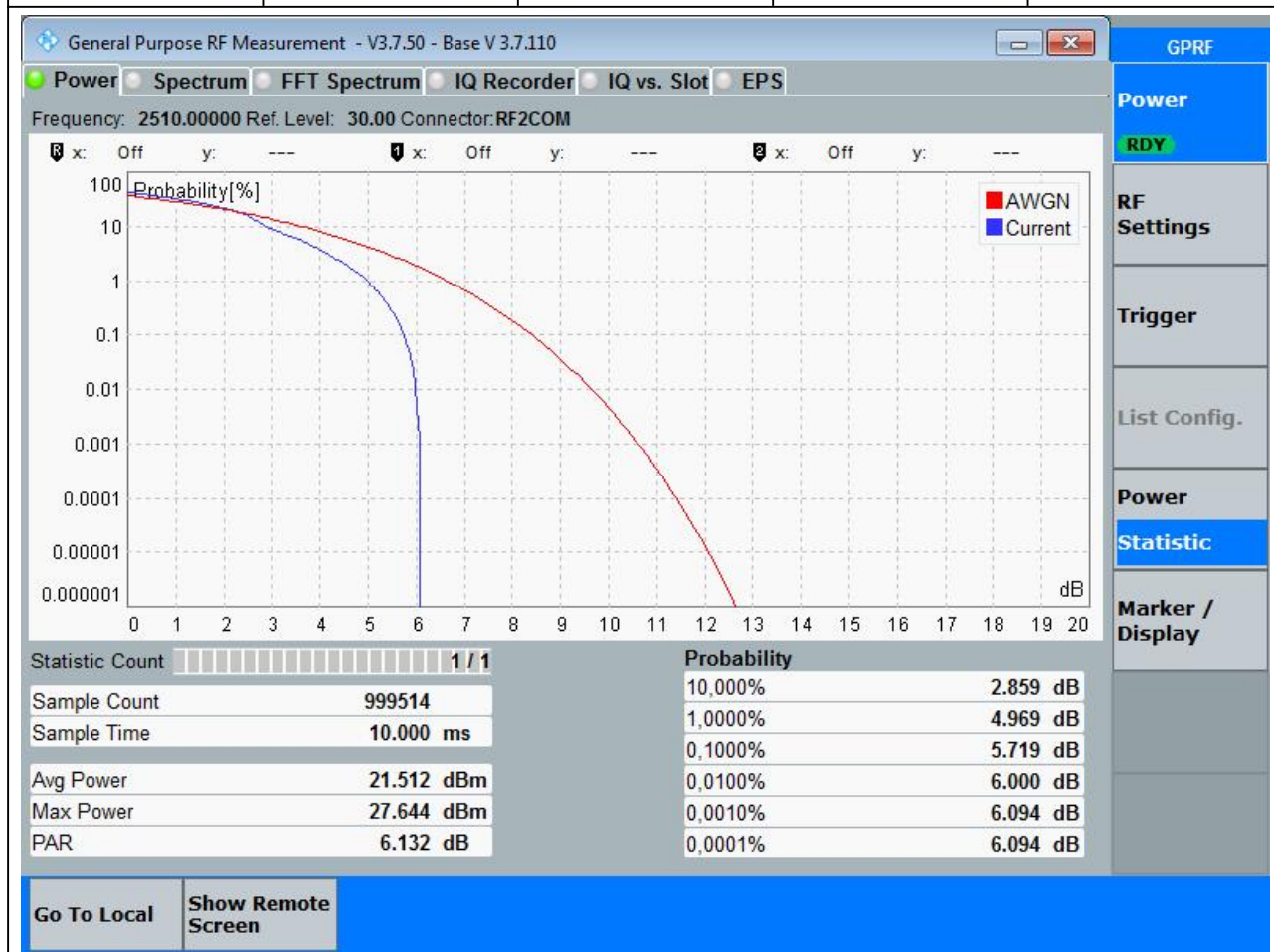
7.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	5.62	13	Pass



7.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	5.72	13	Pass



7.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	6.47	13	Pass

