

Peak to Average Ratio

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Verdict
Band 2	LCH	2.91	13	Pass
	MCH	2.95	13	Pass
	HCH	2.91	13	Pass
Band 4	LCH	2.91	13	Pass
	MCH	2.91	13	Pass
	HCH	2.95	13	Pass
Band 5	LCH	3.09	13	Pass
	MCH	2.86	13	Pass
	HCH	2.95	13	Pass

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	4.27	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	4.83	13	Pass
				RB100#0	6.19	13	Pass
		MCH	QPSK	RB1#0	4.87	13	Pass
				RB100#0	5.34	13	Pass
			16-QAM	RB1#0	5.62	13	Pass
				RB100#0	6.14	13	Pass
		HCH	QPSK	RB1#0	4.97	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.95	13	Pass
				RB100#0	6.23	13	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.36	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	4.97	13	Pass
				RB100#0	6.23	13	Pass
		MCH	QPSK	RB1#0	4.73	13	Pass
				RB100#0	5.39	13	Pass
			16-QAM	RB1#0	5.53	13	Pass
				RB100#0	6.19	13	Pass
		HCH	QPSK	RB1#0	4.55	13	Pass

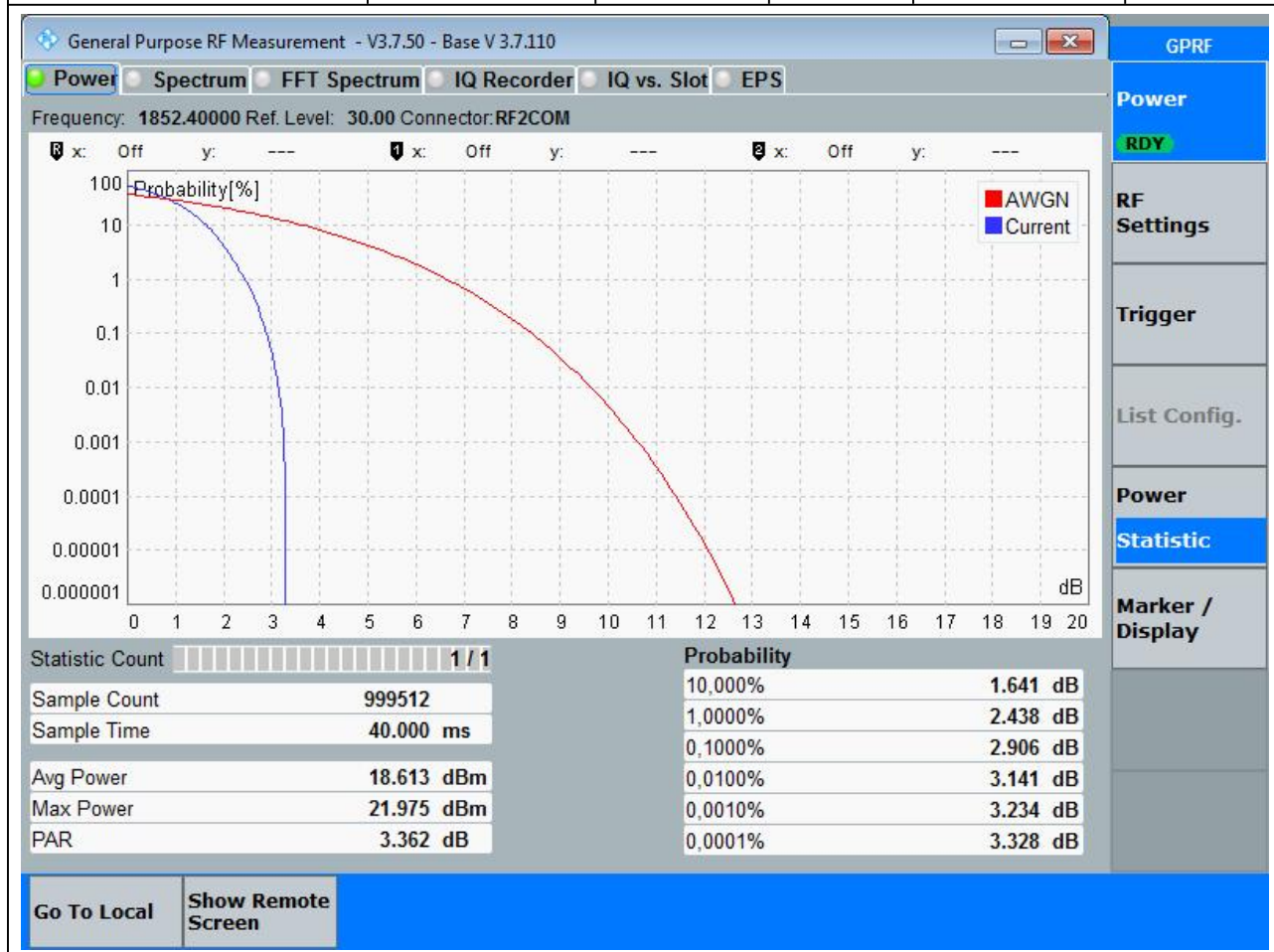
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
			16-QAM	RB100#0	5.53	13	Pass
				RB1#0	5.53	13	Pass
				RB100#0	6.23	13	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	5.06	13	Pass
				RB50#0	5.53	13	Pass
			16-QAM	RB1#0	5.91	13	Pass
				RB50#0	6.28	13	Pass
		MCH	QPSK	RB1#0	4.36	13	Pass
				RB50#0	5.48	13	Pass
			16-QAM	RB1#0	5.3	13	Pass
				RB50#0	6.23	13	Pass
		HCH	QPSK	RB1#0	4.55	13	Pass
				RB50#0	5.48	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB50#0	6.23	13	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	5.02	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	5.58	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	5.02	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.77	13	Pass
				RB100#0	6.23	13	Pass
		HCH	QPSK	RB1#0	5.06	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	6.05	13	Pass
				RB100#0	6.23	13	Pass
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	8.86	13	Pass
				RB100#0	9.23	13	Pass
			16-QAM	RB1#0	9.56	13	Pass
				RB100#0	9.89	13	Pass
		MCH	QPSK	RB1#0	9.14	13	Pass
				RB100#0	9.19	13	Pass
			16-QAM	RB1#0	9.8	13	Pass
				RB100#0	9.89	13	Pass
		HCH	QPSK	RB1#0	9.28	13	Pass
				RB100#0	9.28	13	Pass
			16-QAM	RB1#0	9.84	13	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
				RB100#0	9.94	13	Pass
LTE Band 41 (120M)	20 MHz	LCH	QPSK	RB1#0	8.72	13	Pass
				RB100#0	9.23	13	Pass
			16-QAM	RB1#0	9.42	13	Pass
				RB100#0	9.89	13	Pass
		MCH	QPSK	RB1#0	9.14	13	Pass
				RB100#0	9.23	13	Pass
			16-QAM	RB1#0	9.8	13	Pass
				RB100#0	9.84	13	Pass
		HCH	QPSK	RB1#0	9.09	13	Pass
				RB100#0	9.23	13	Pass
			16-QAM	RB1#0	9.7	13	Pass
				RB100#0	9.84	13	Pass

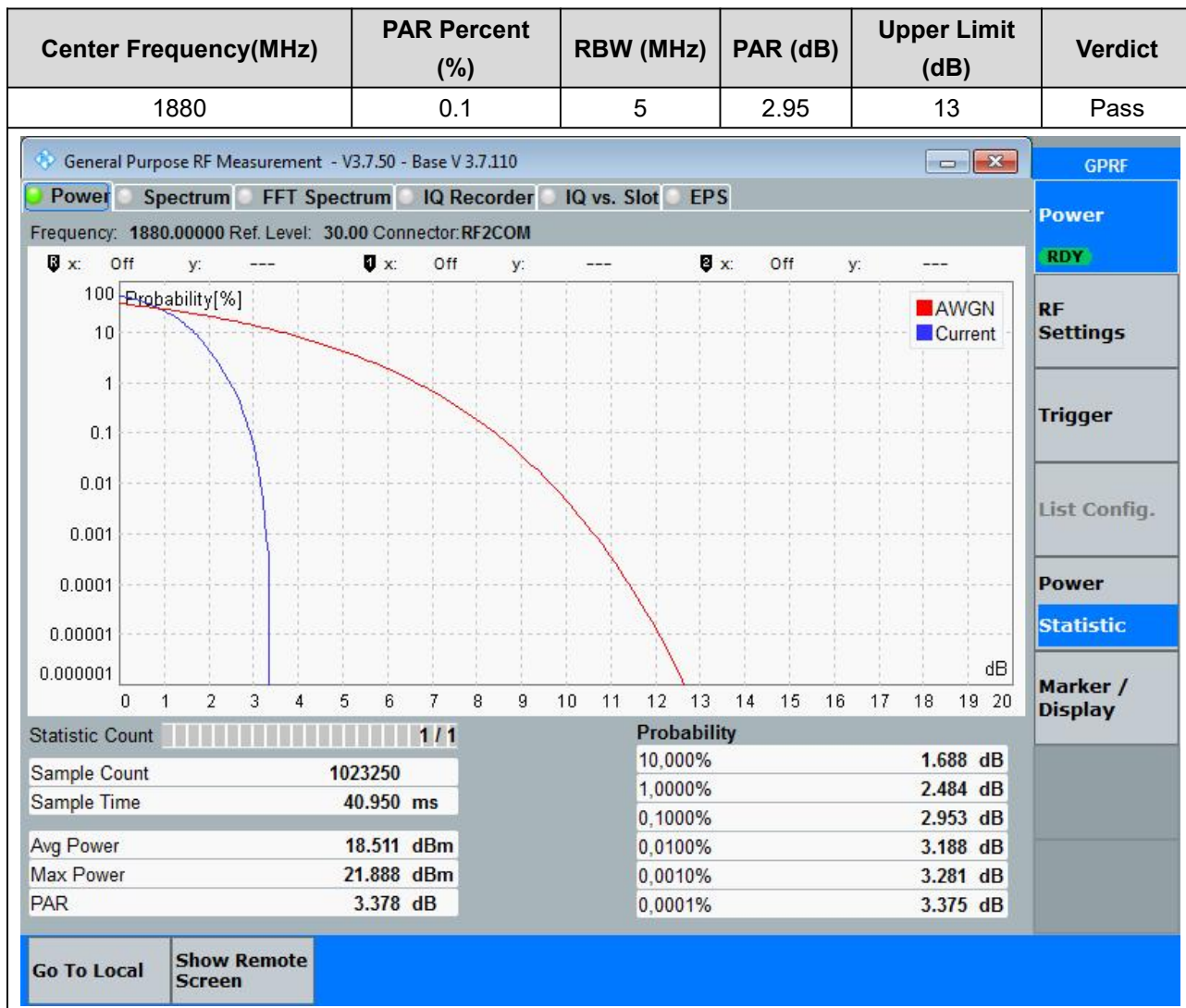
1. WCDMA_Band2

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

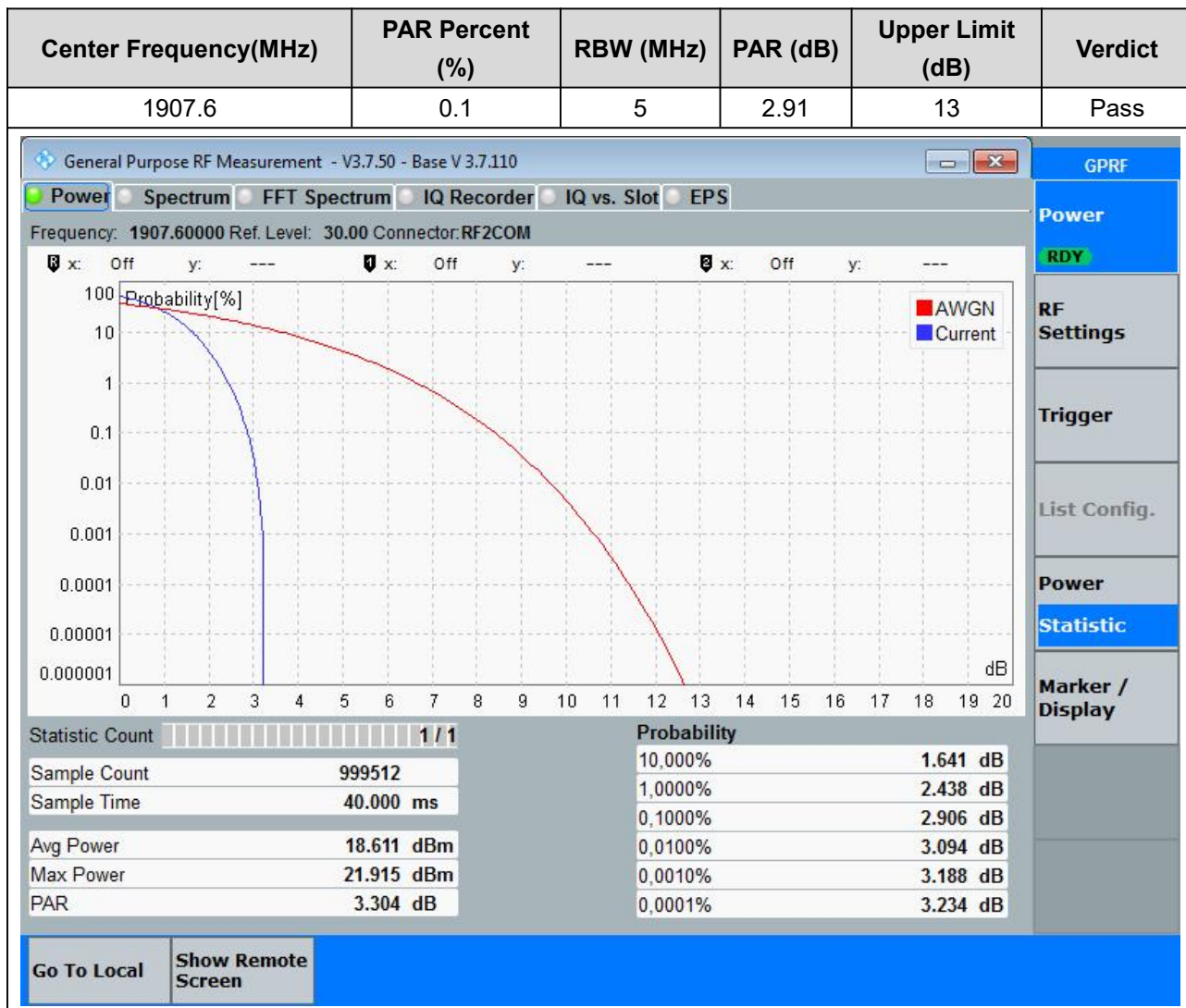
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1852.4	0.1	5	2.91	13	Pass



1.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9400)



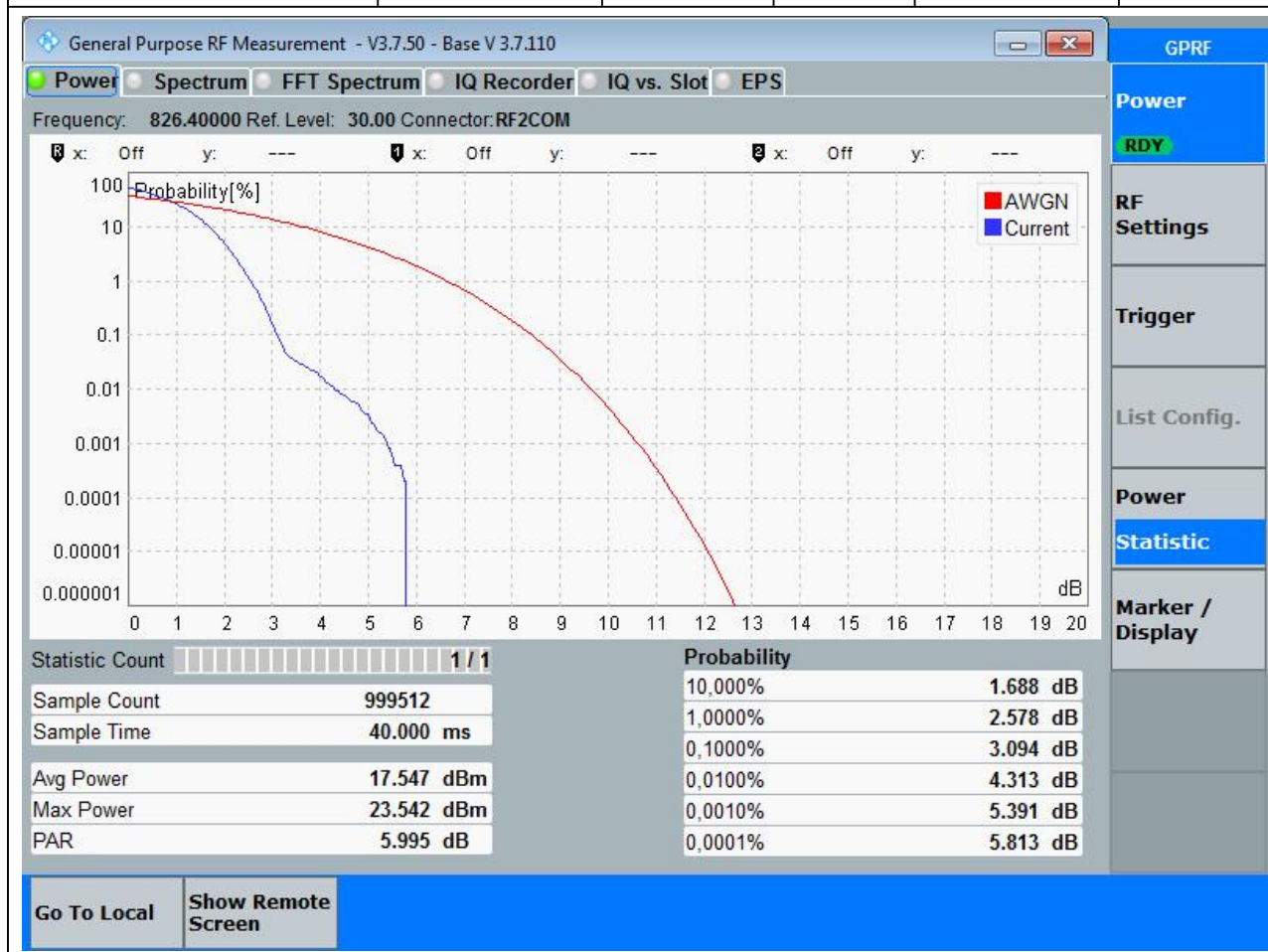
1.3 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9538)



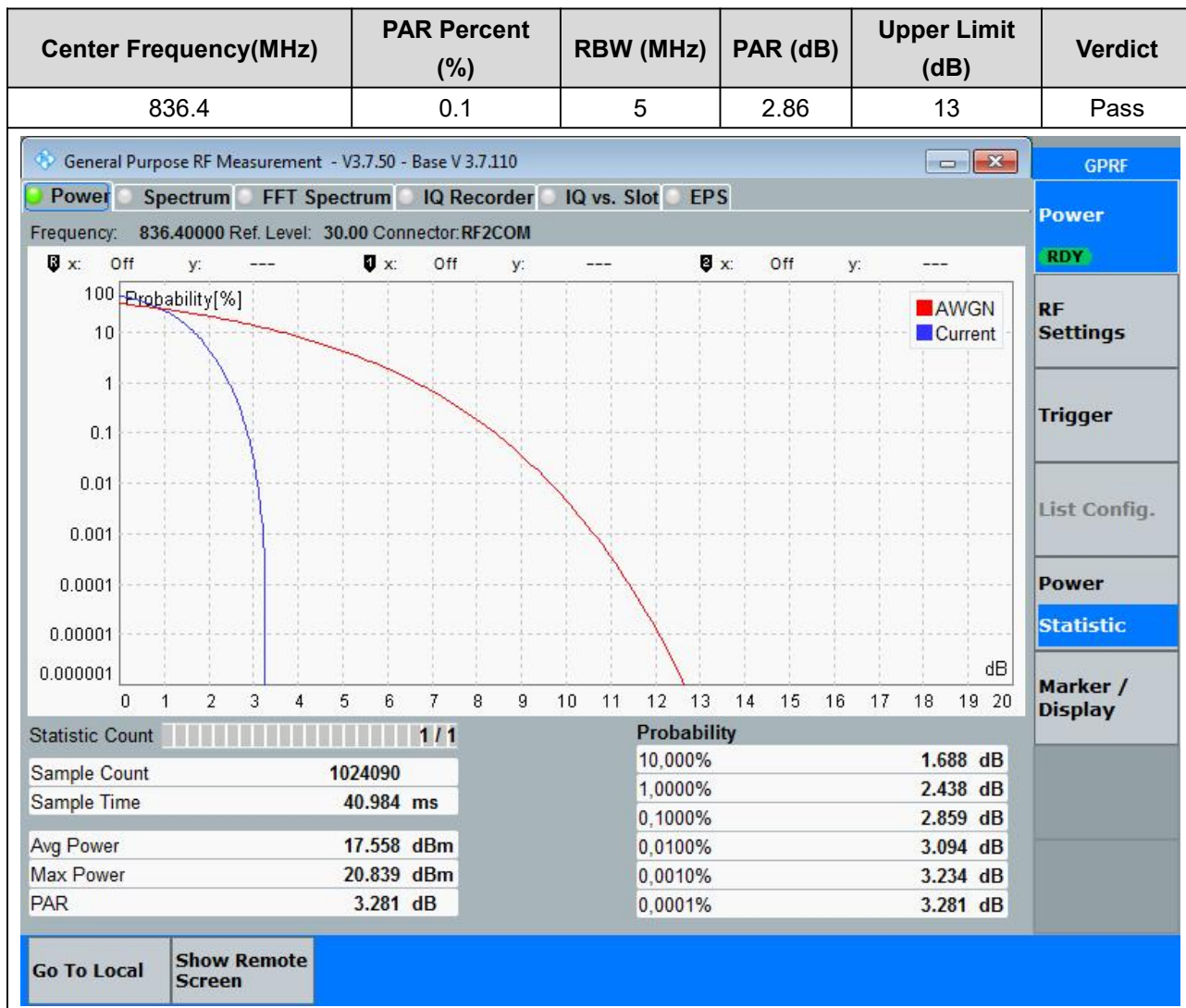
2. WCDMA_Band5

2.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:4132)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
826.4	0.1	5	3.09	13	Pass

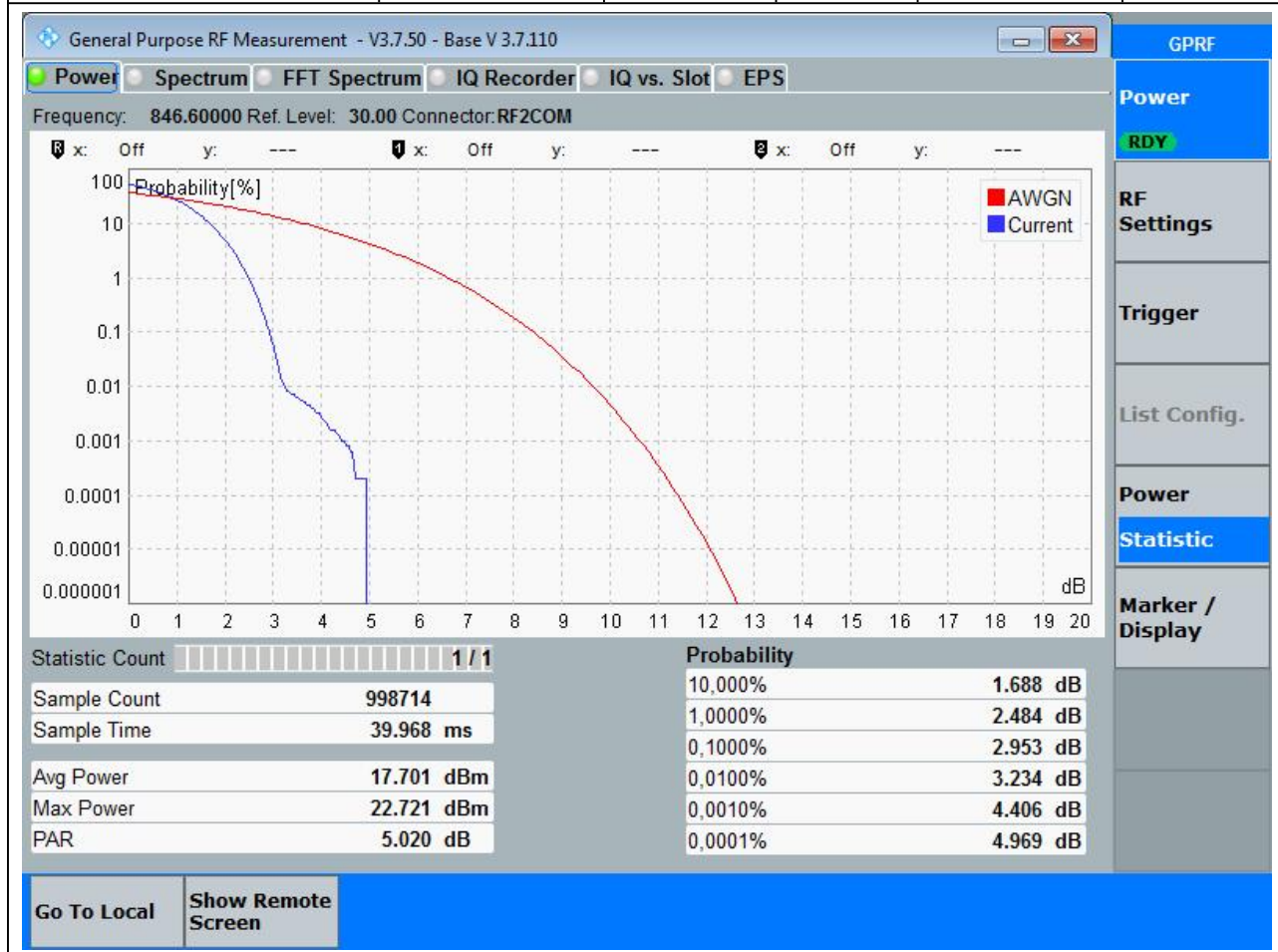


2.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:4182)



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

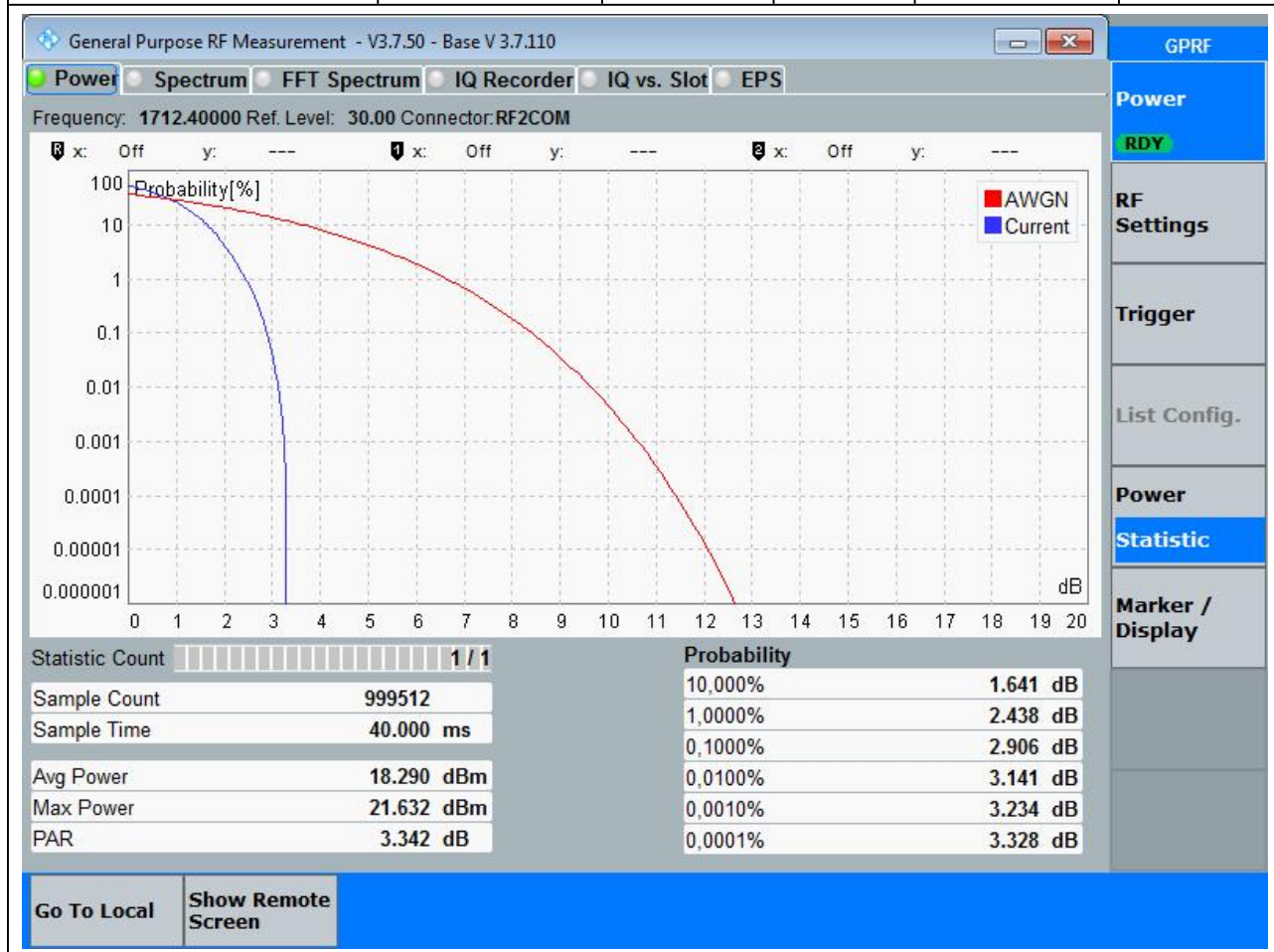
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
846.6	0.1	5	2.95	13	Pass



3. WCDMA_Band4

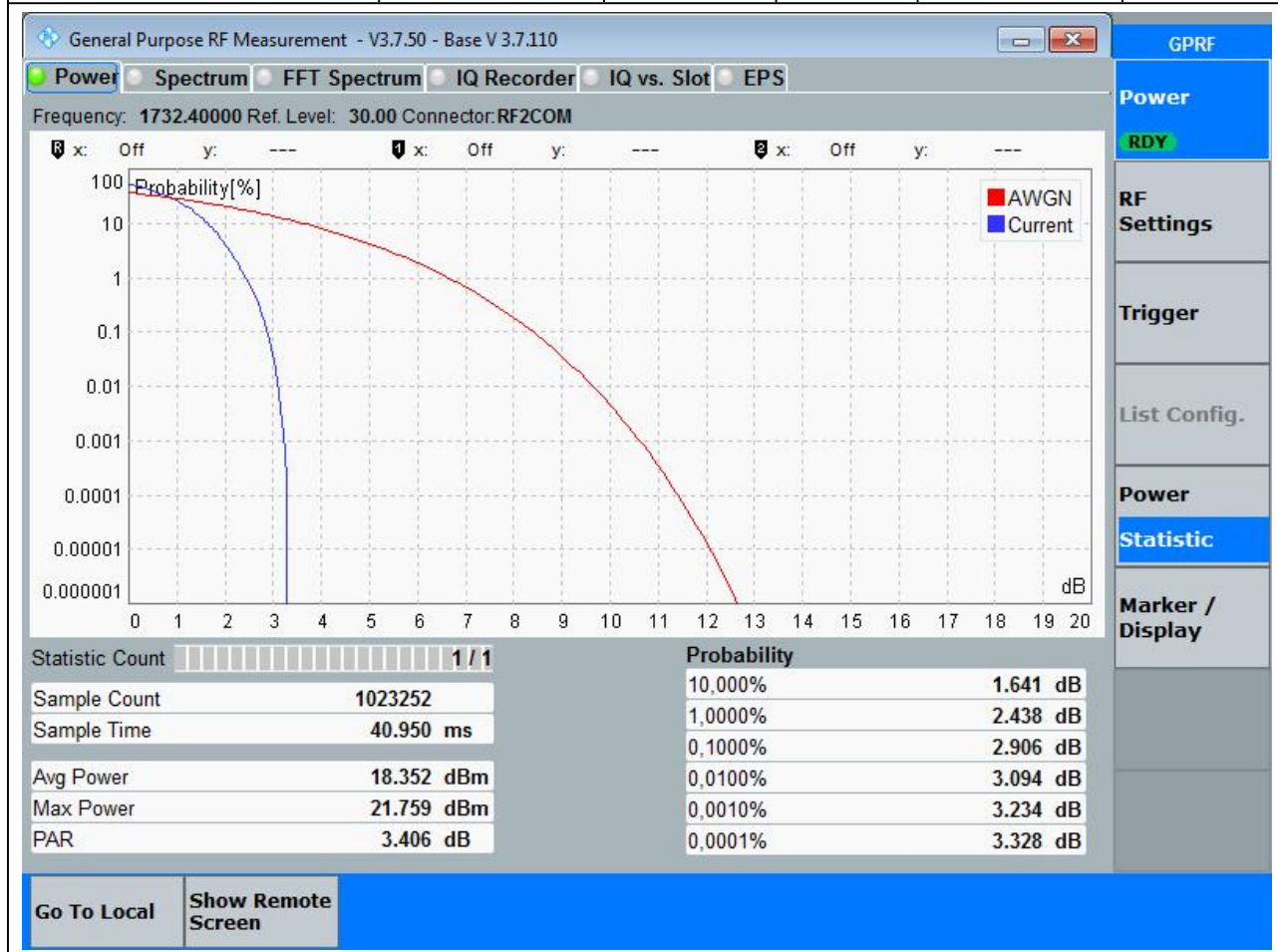
3.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:1312)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1712.4	0.1	5	2.91	13	Pass



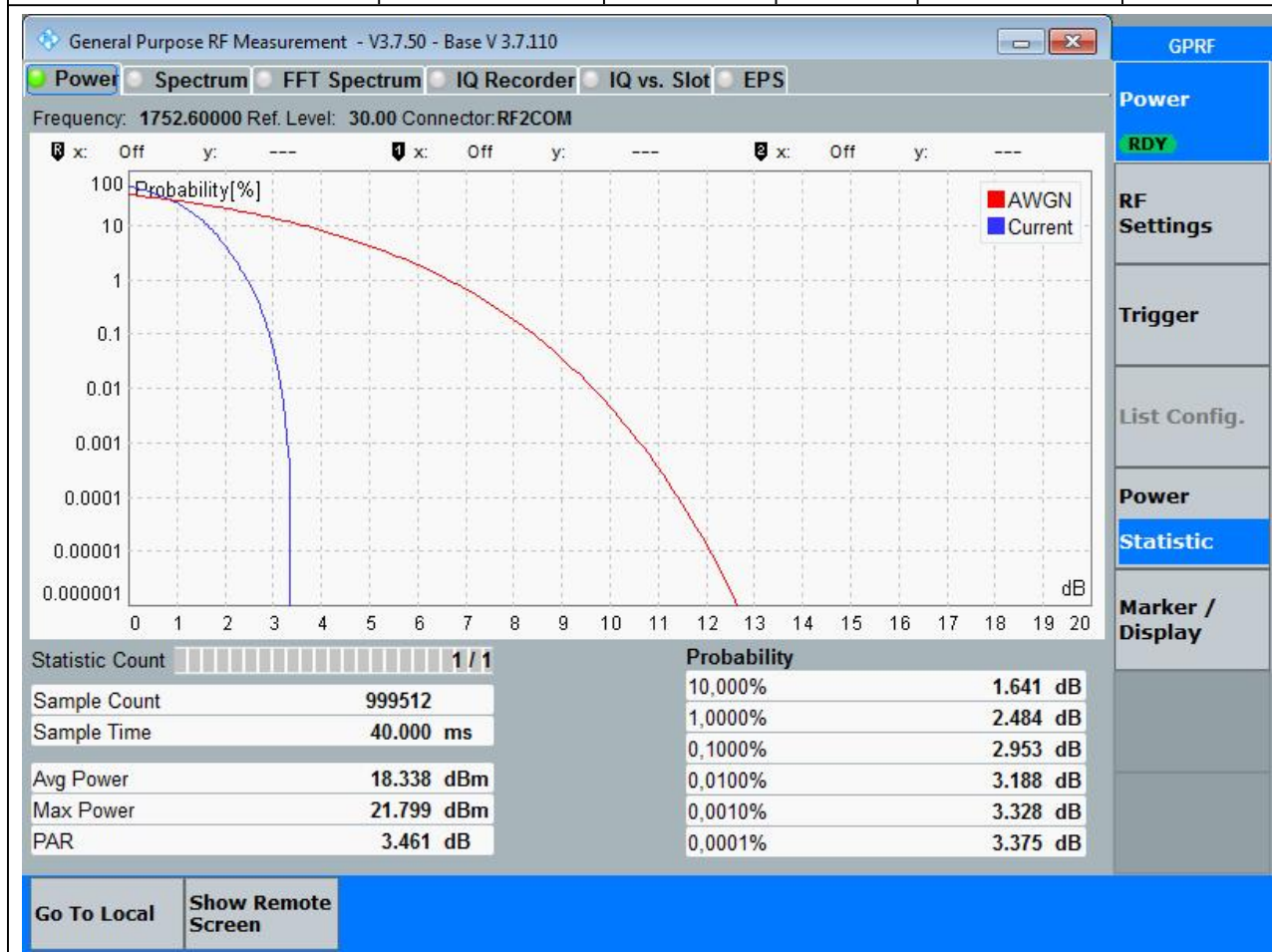
3.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:1412)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.4	0.1	5	2.91	13	Pass



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

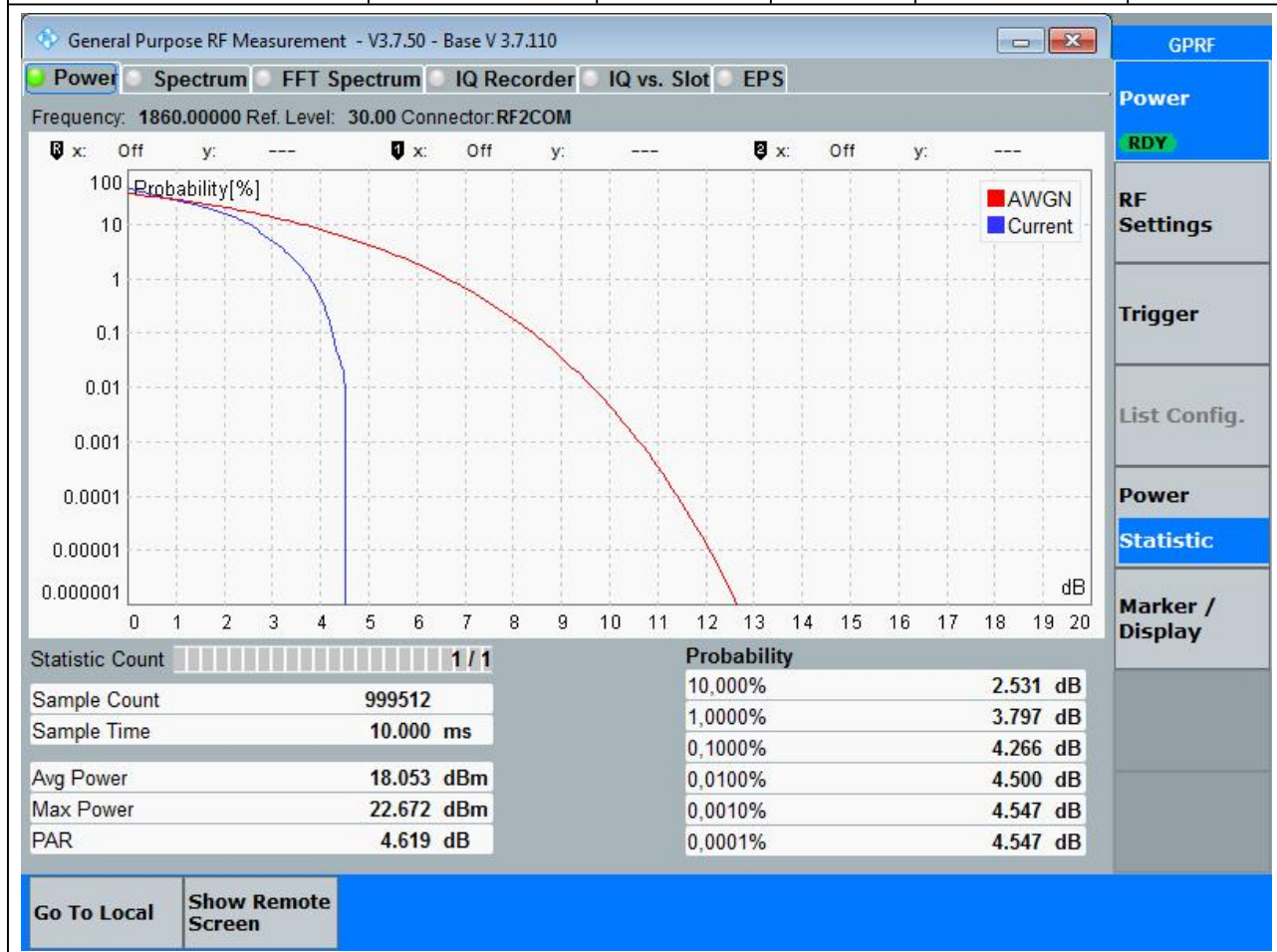
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1752.6	0.1	5	2.95	13	Pass



1. LTE_Band2

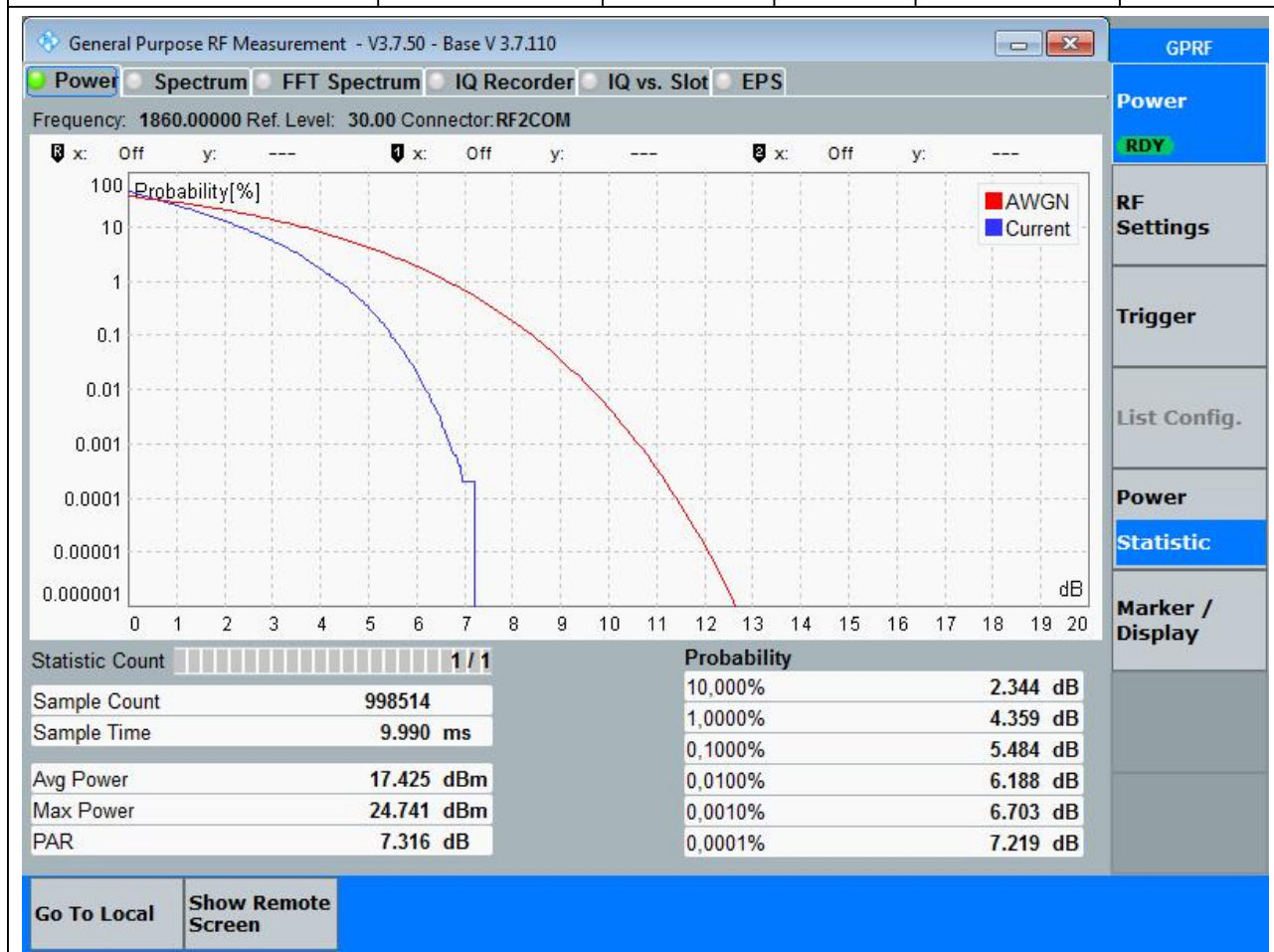
1.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	4.27	13	Pass



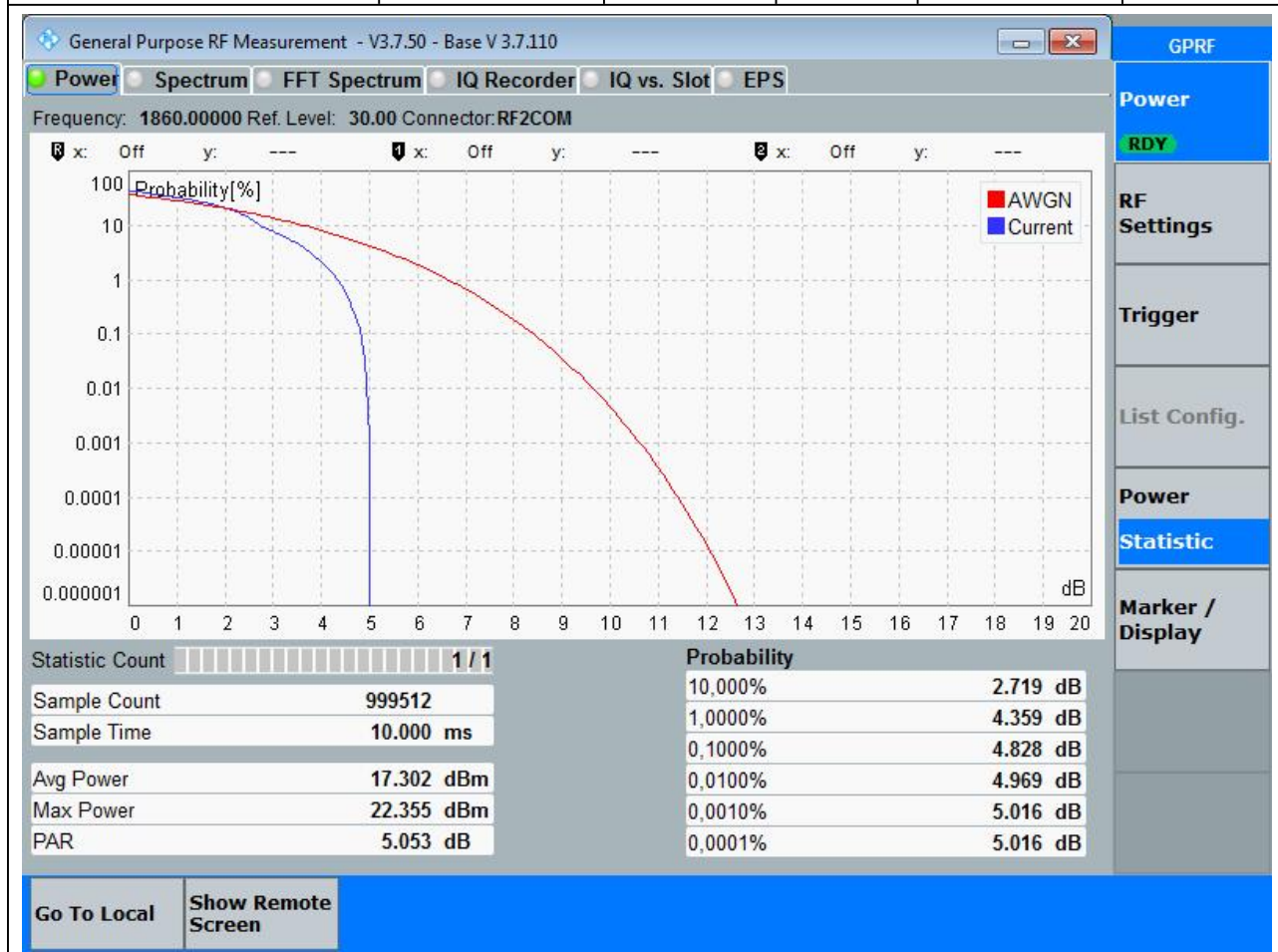
1.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	5.48	13	Pass



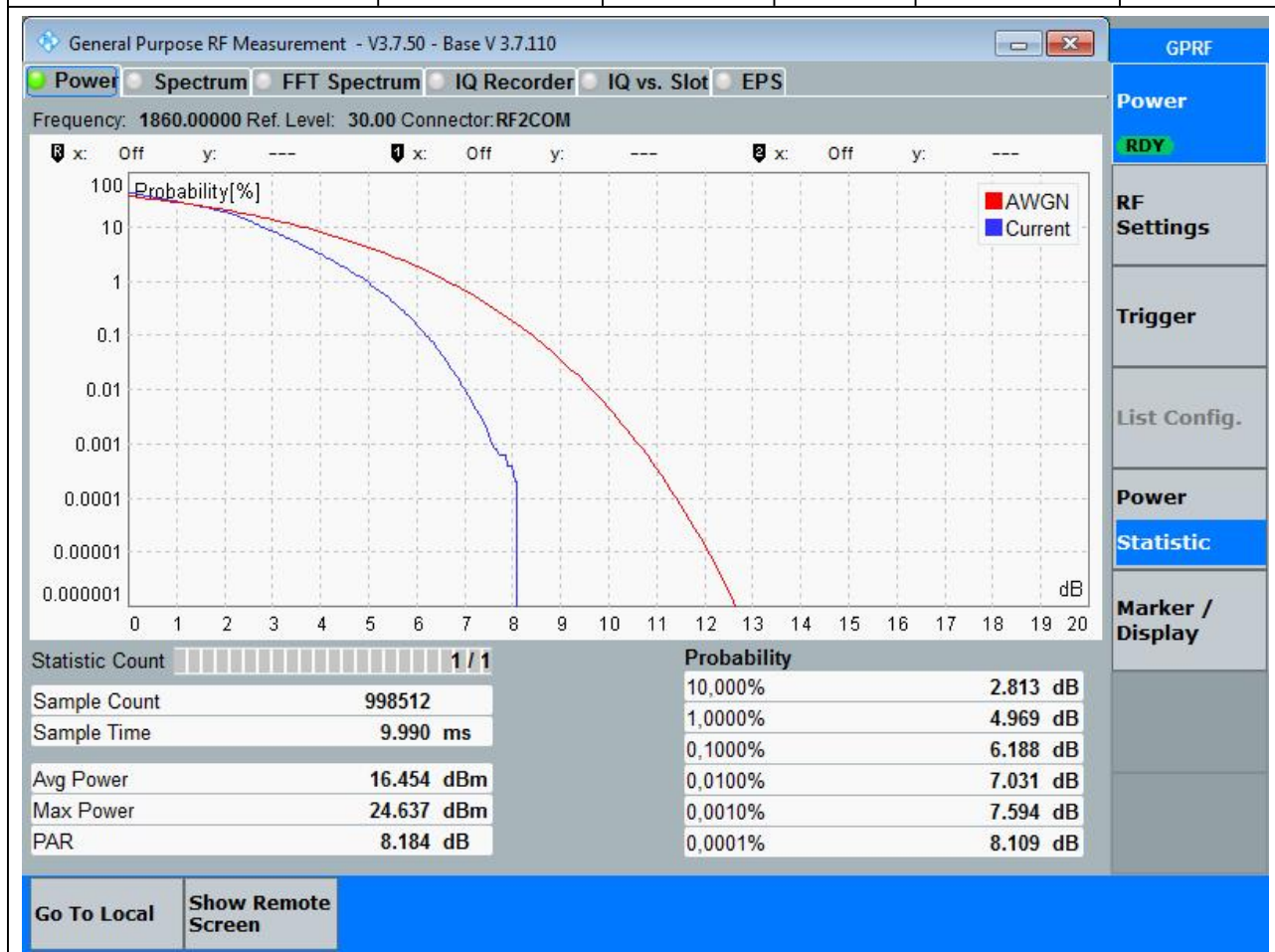
1.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	4.83	13	Pass



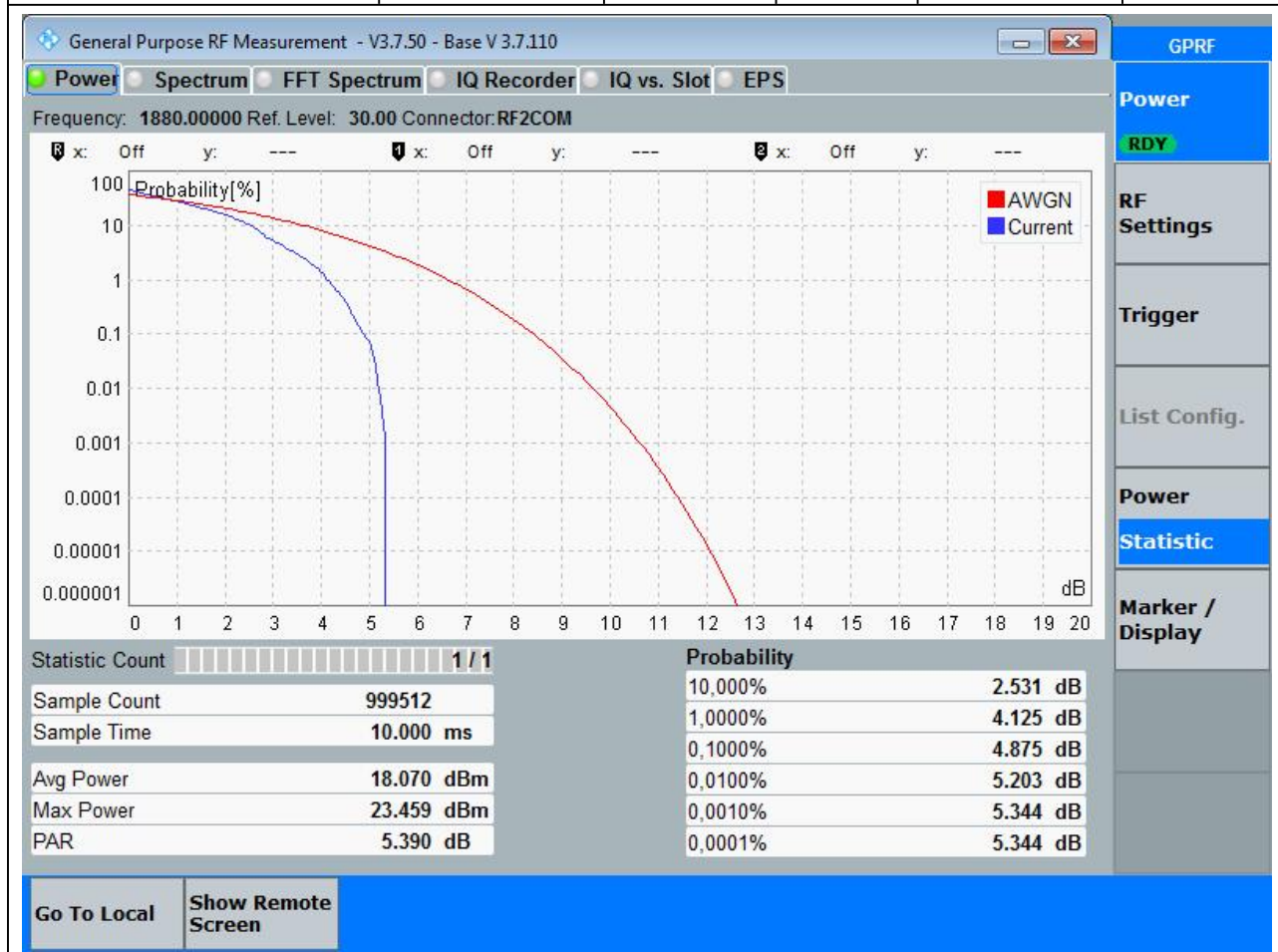
1.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	6.19	13	Pass



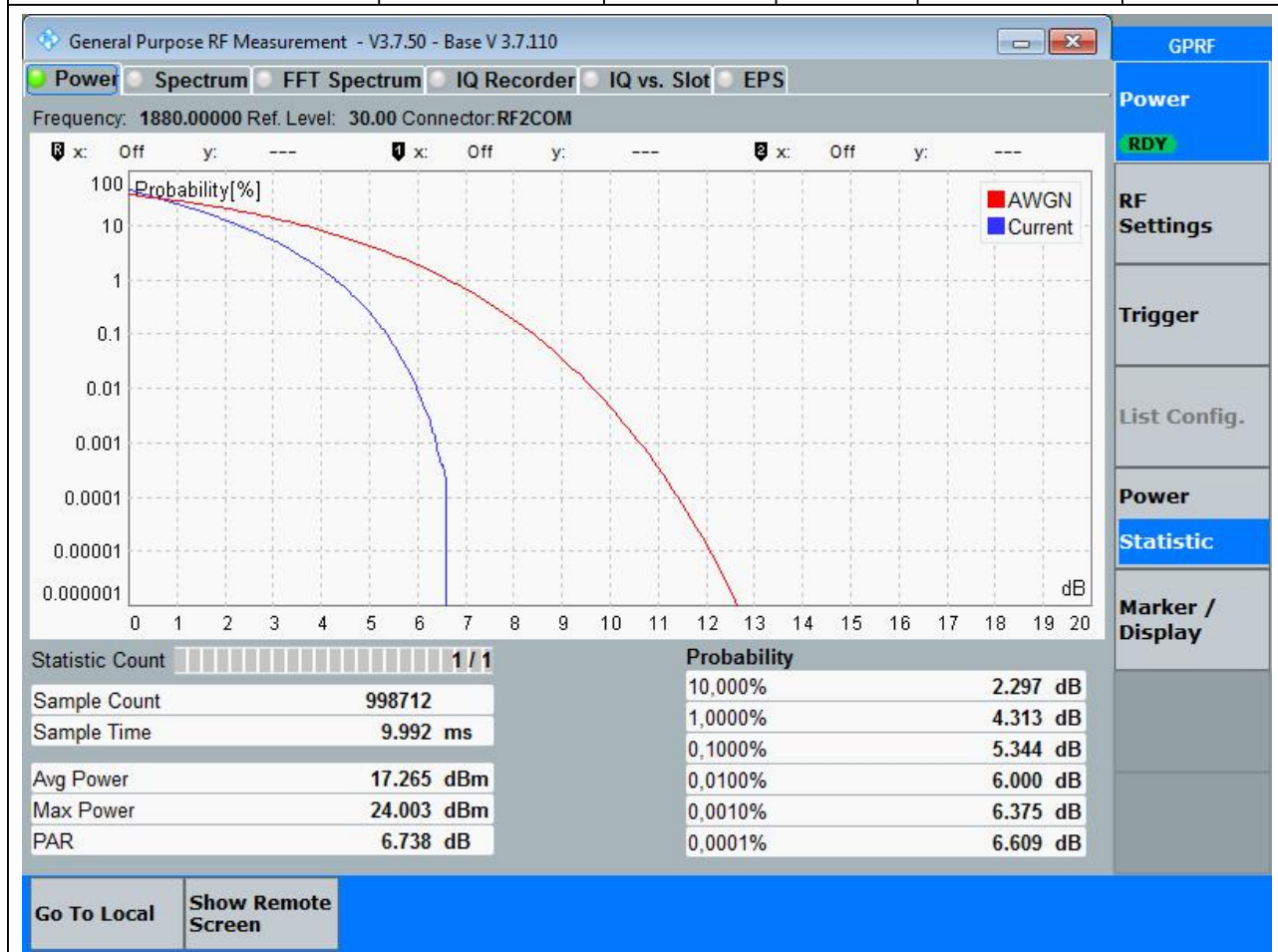
1.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	20	4.87	13	Pass



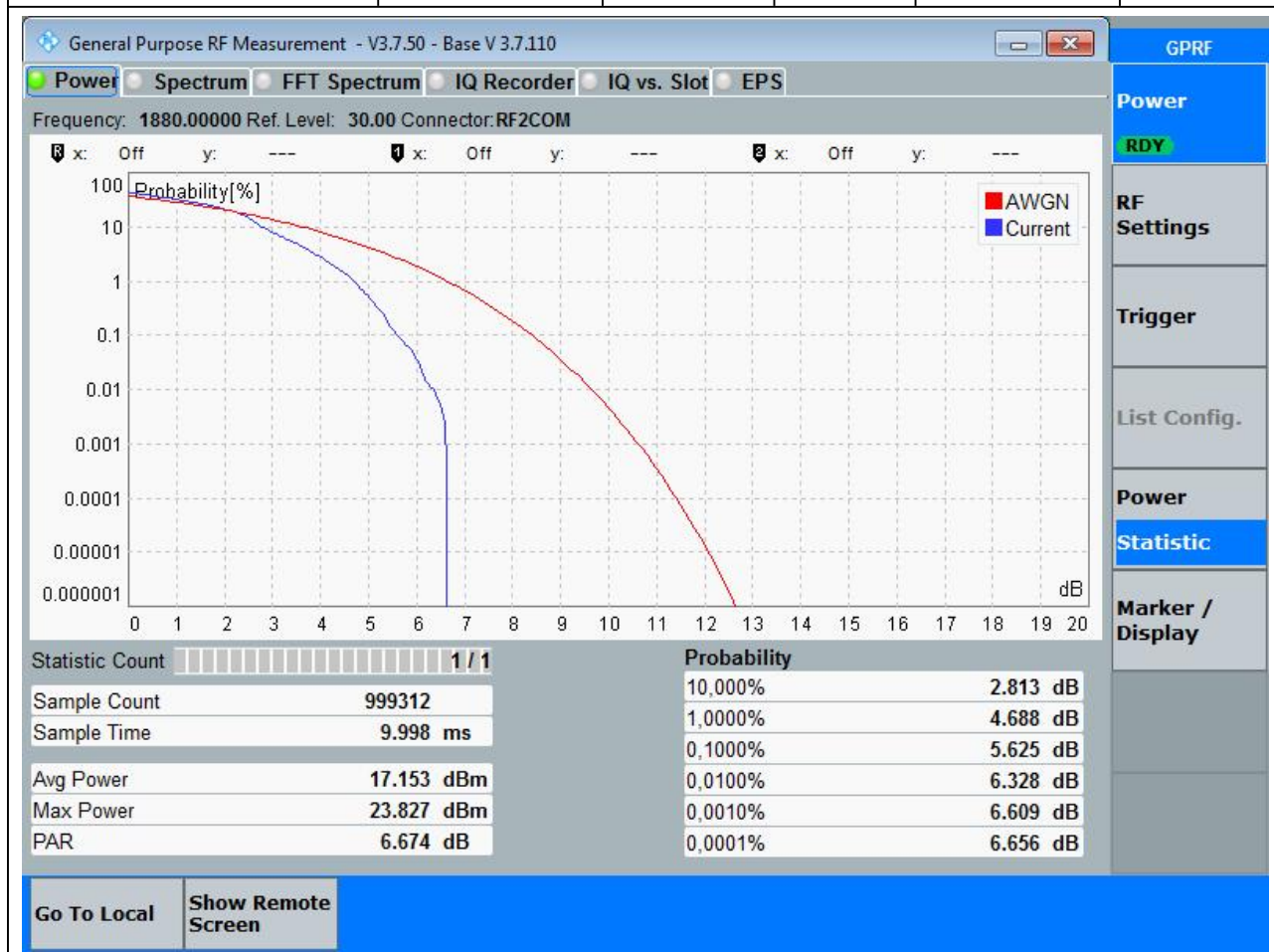
1.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	20	5.34	13	Pass



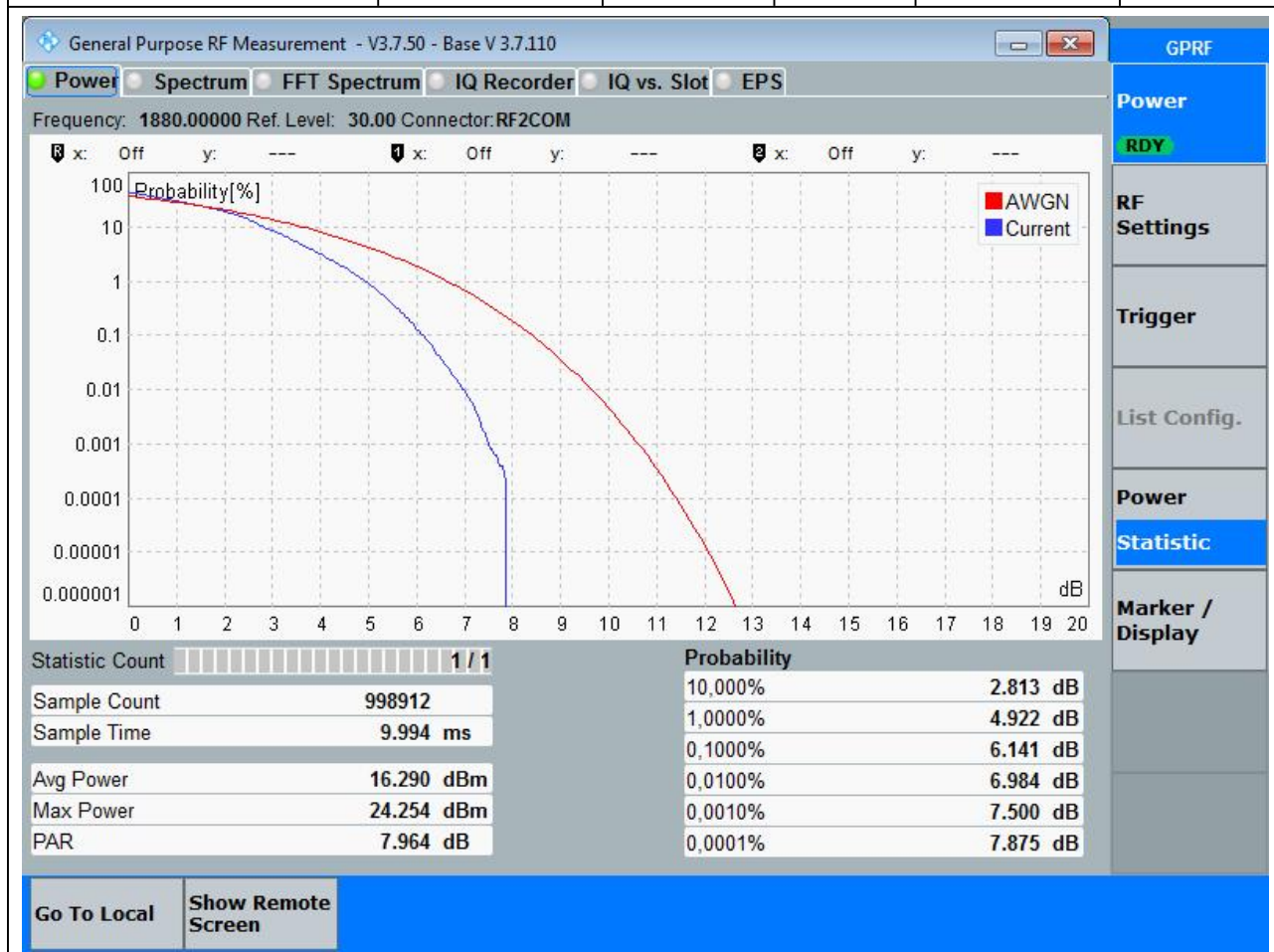
1.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	20	5.62	13	Pass



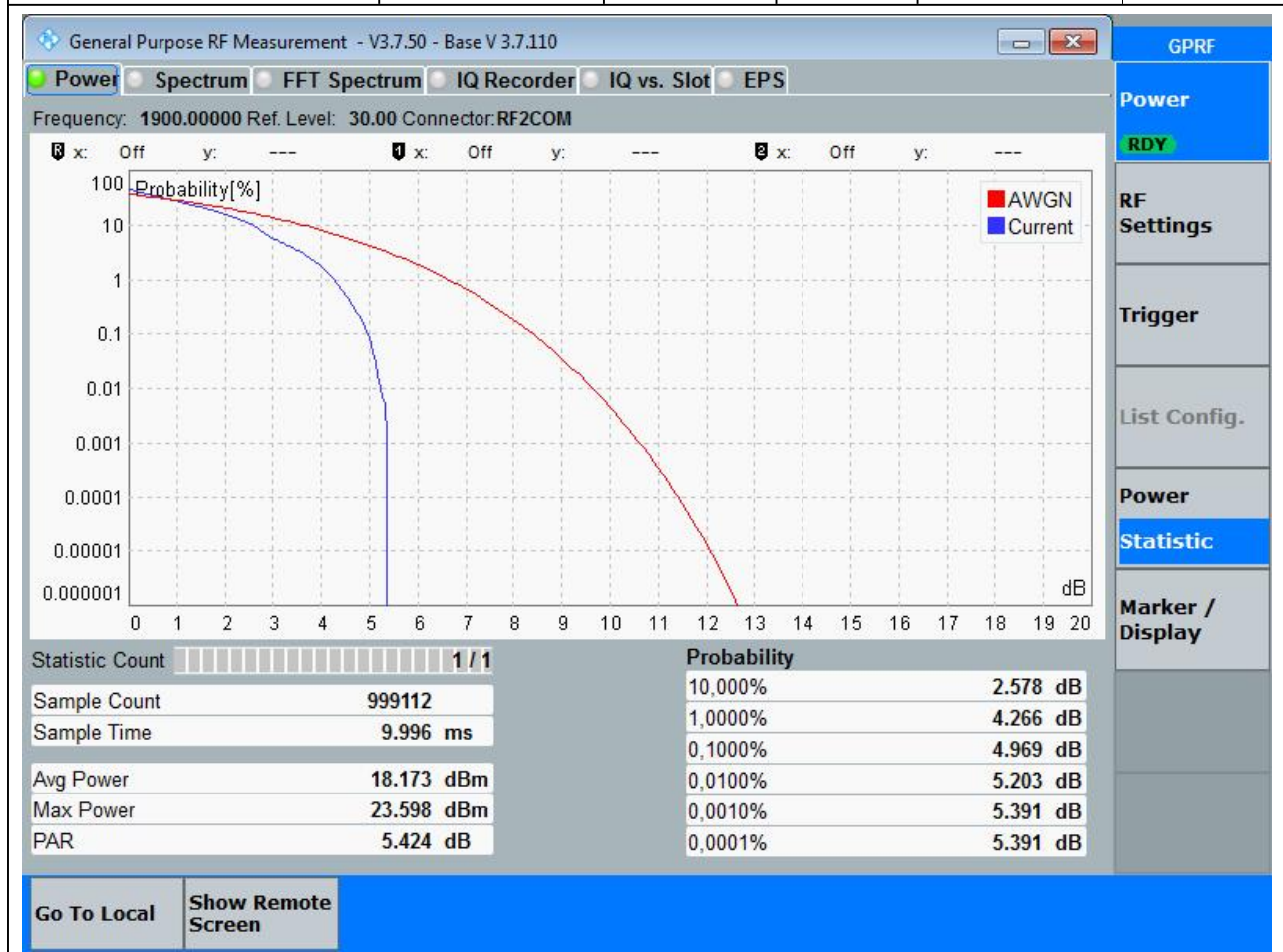
1.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	20	6.14	13	Pass



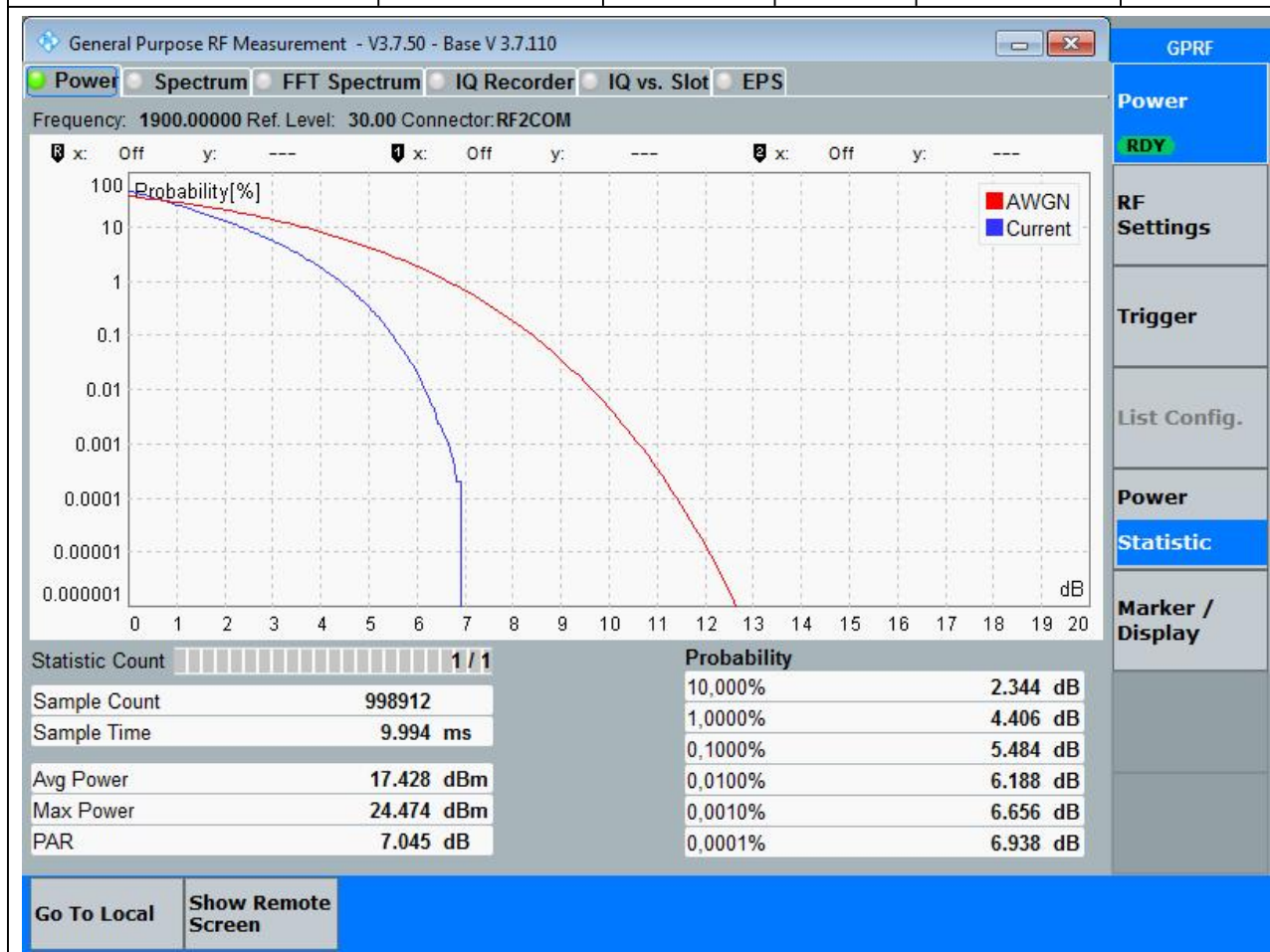
1.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	4.97	13	Pass



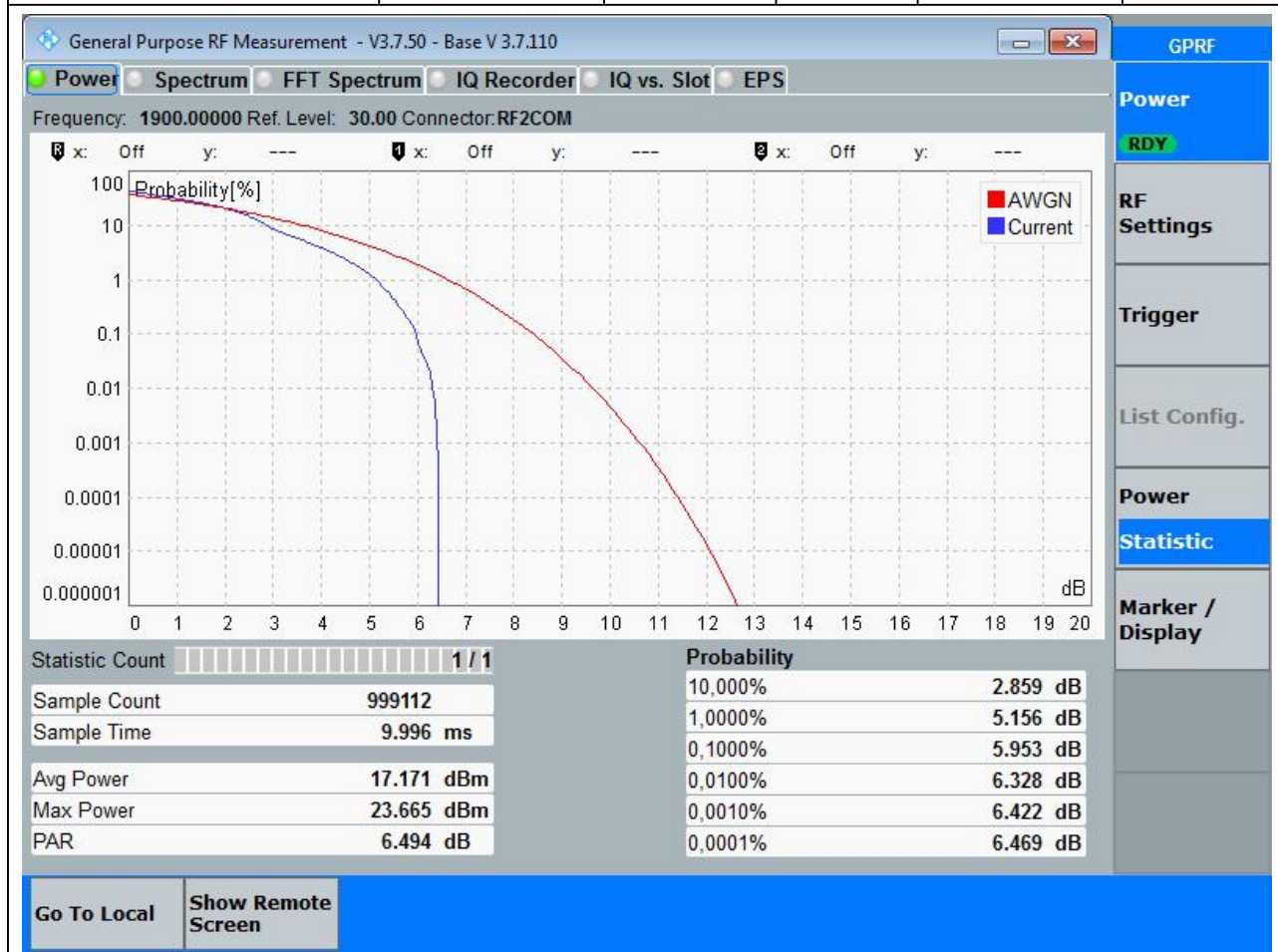
1.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	5.48	13	Pass



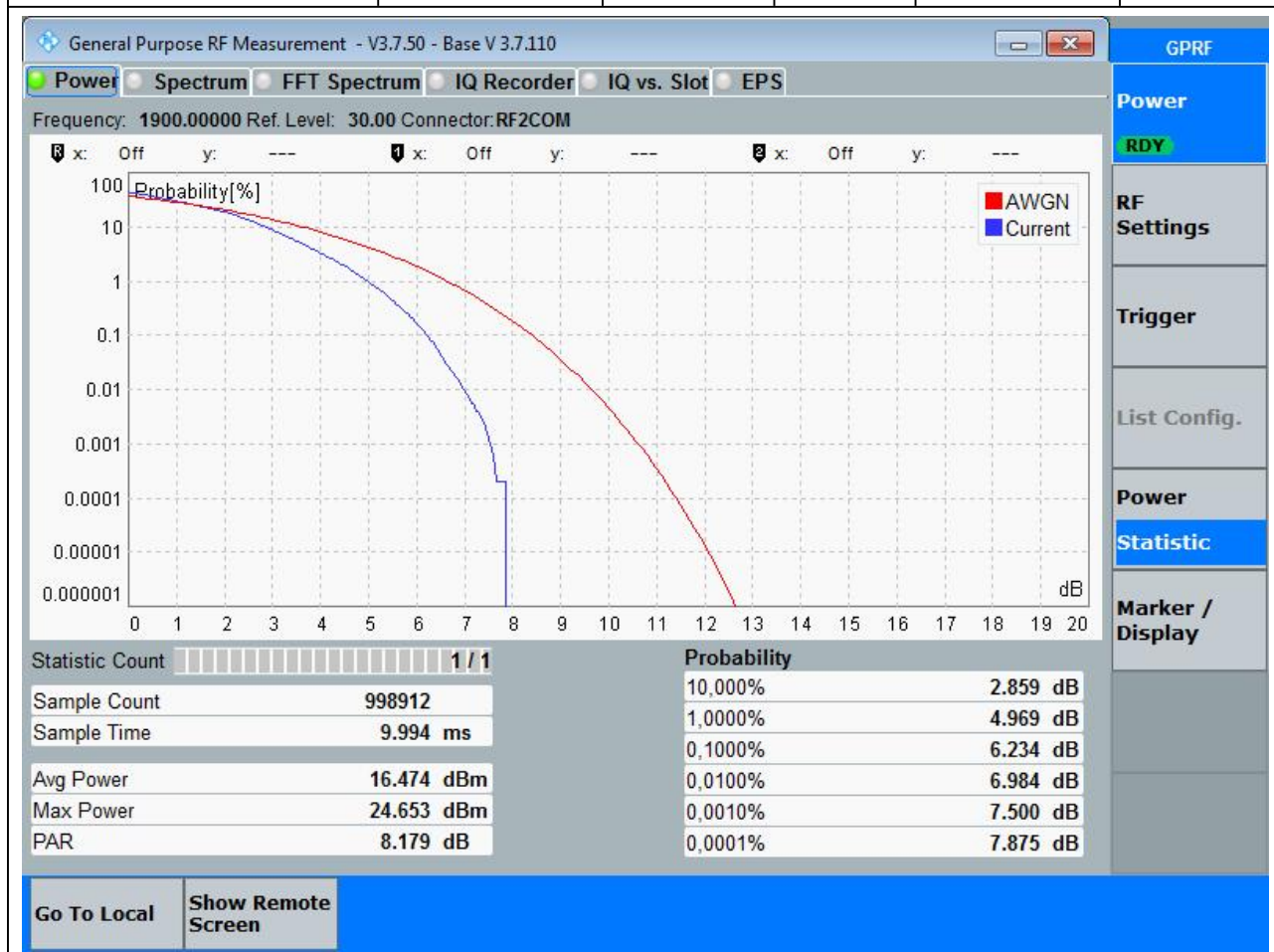
1.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	5.95	13	Pass



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

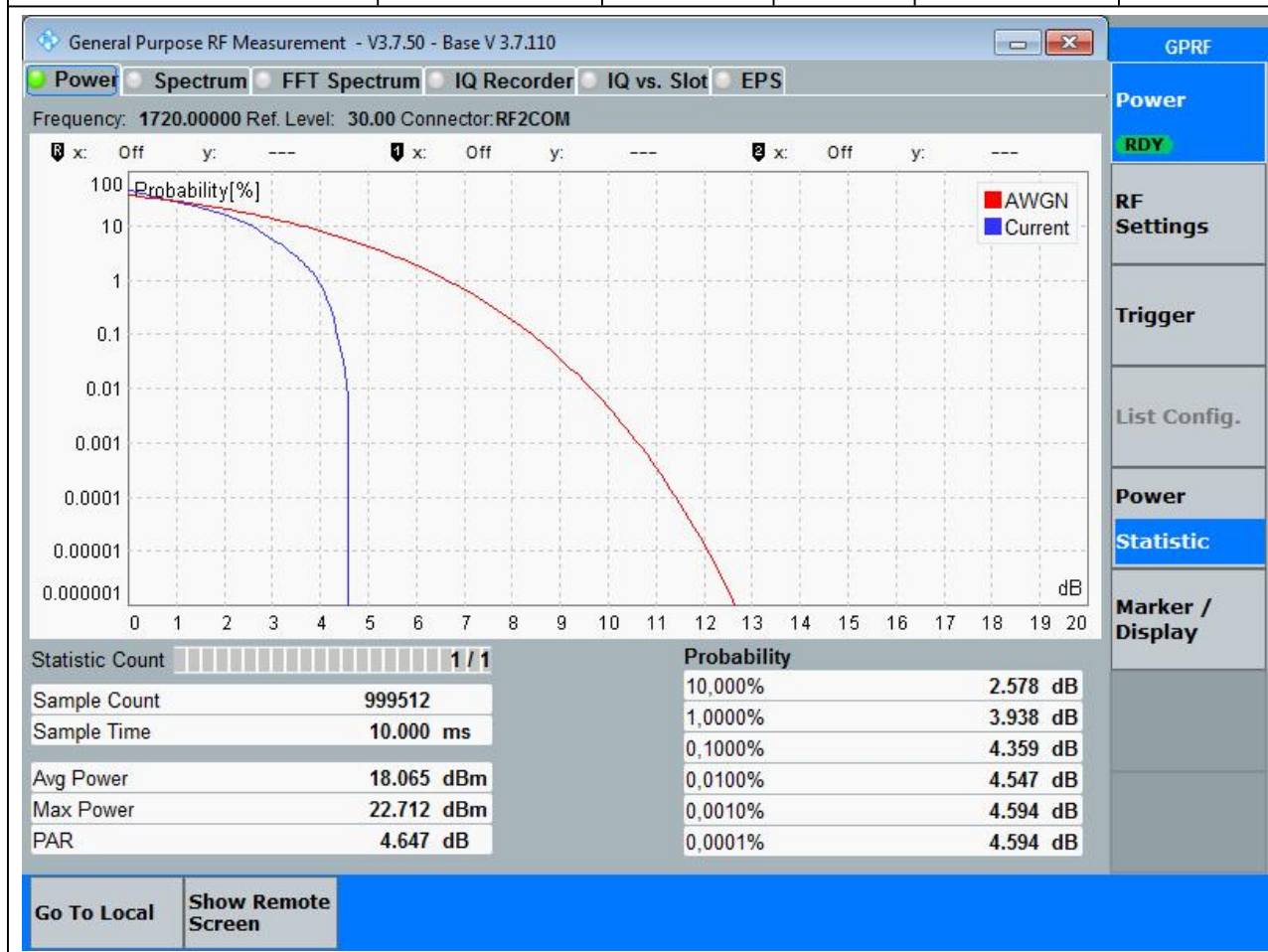
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	6.23	13	Pass



2. LTE_Band4

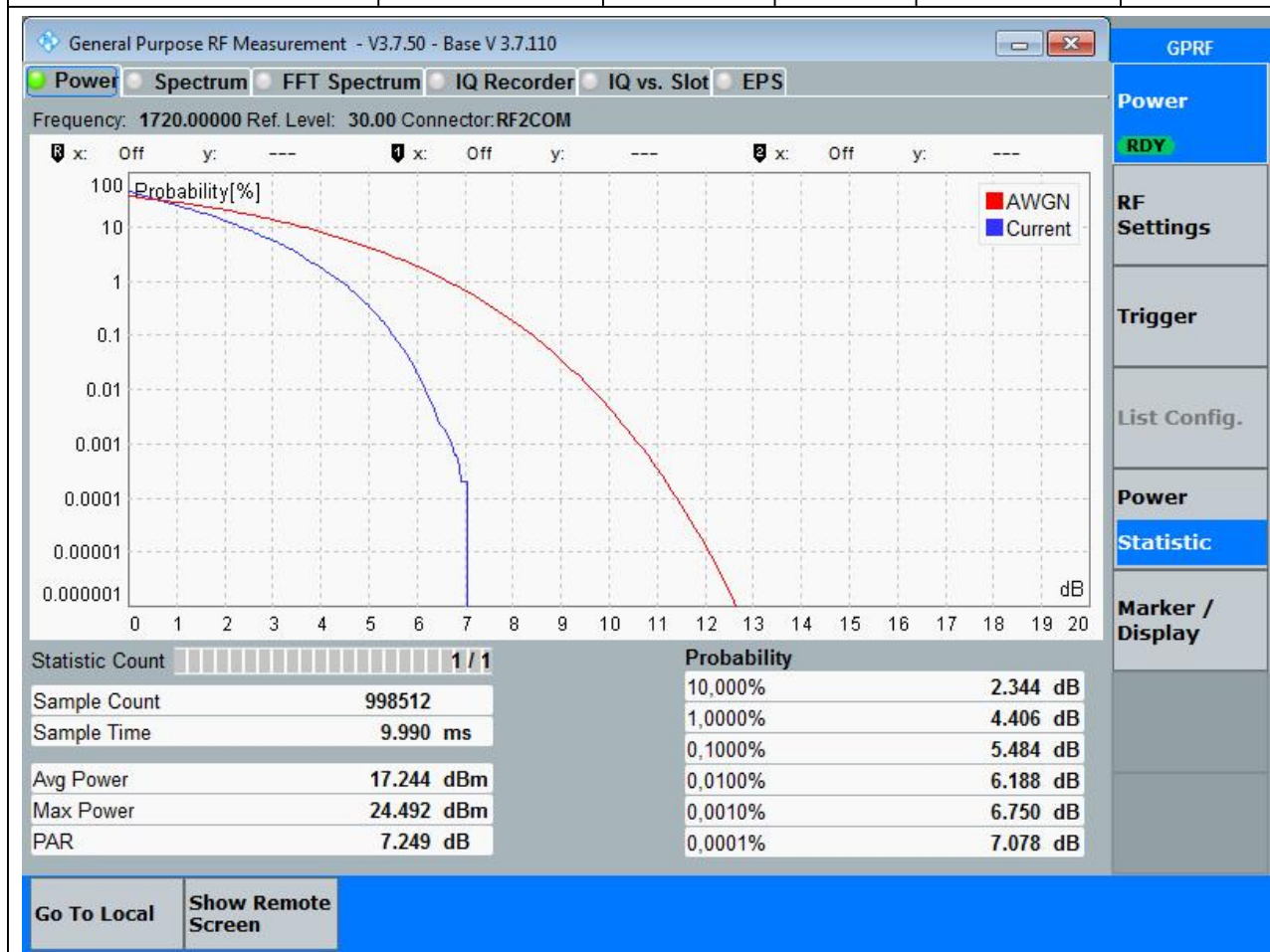
2.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	20	4.36	13	Pass



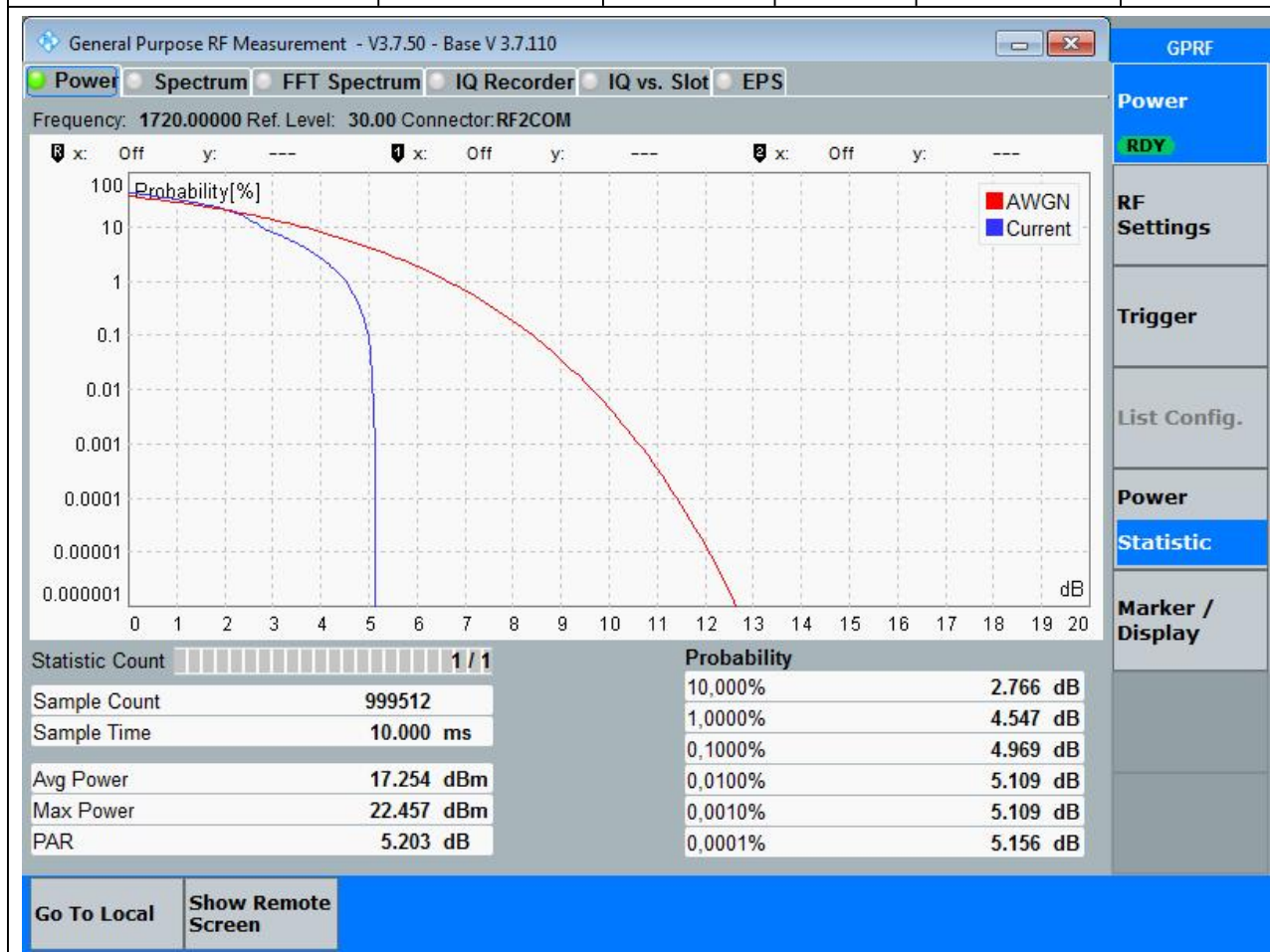
2.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	20	5.48	13	Pass



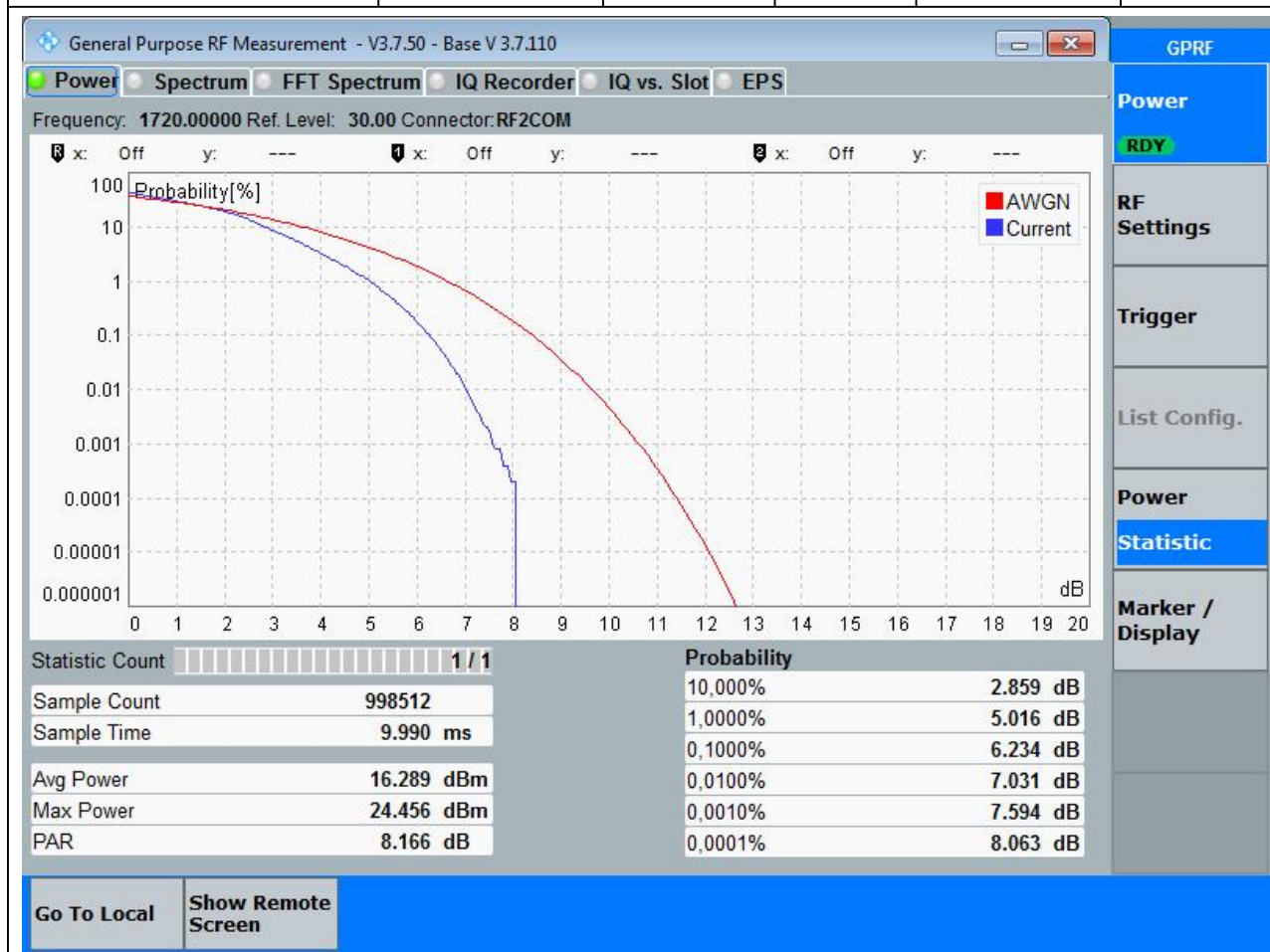
2.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	20	4.97	13	Pass



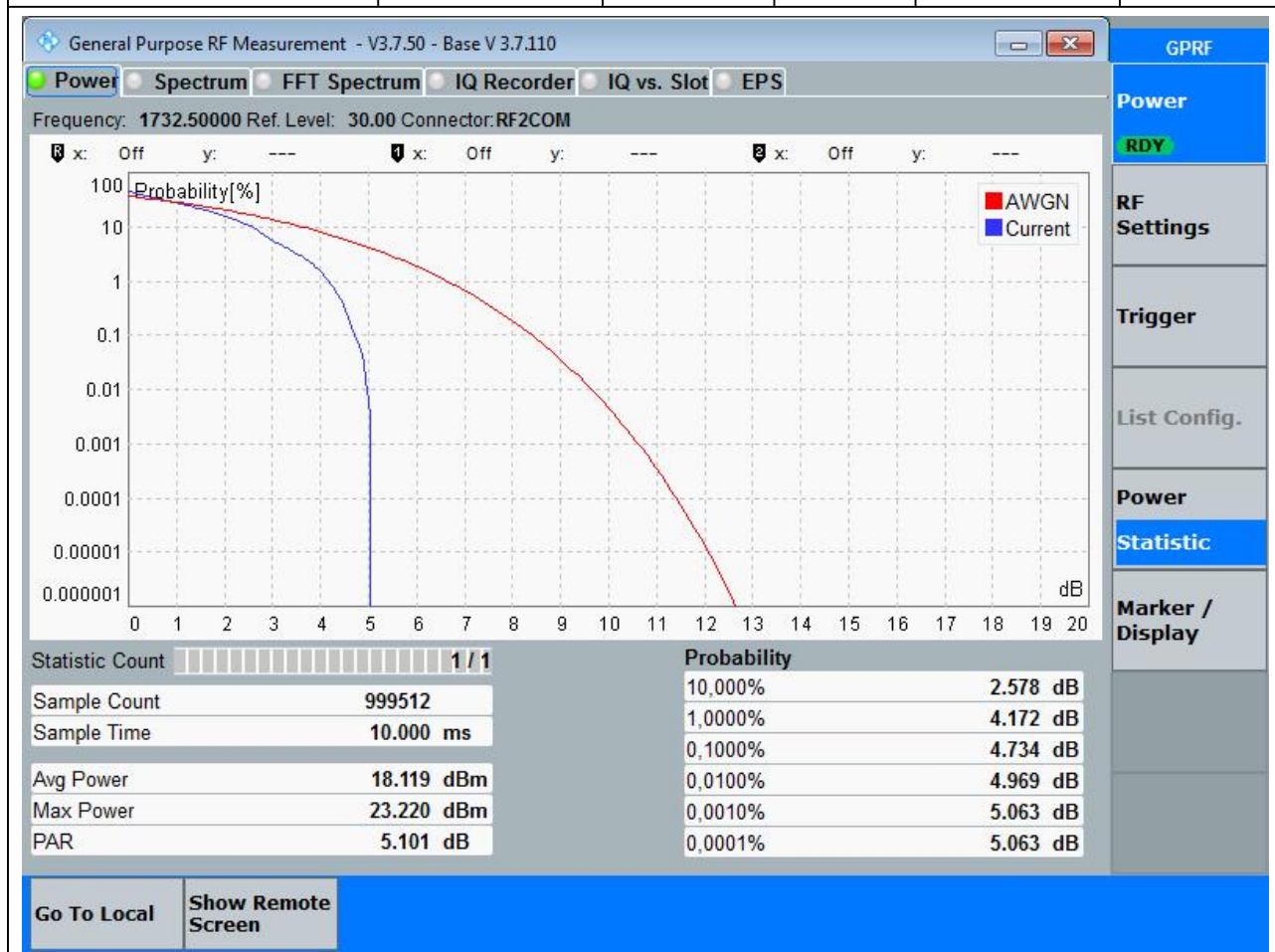
2.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	20	6.23	13	Pass



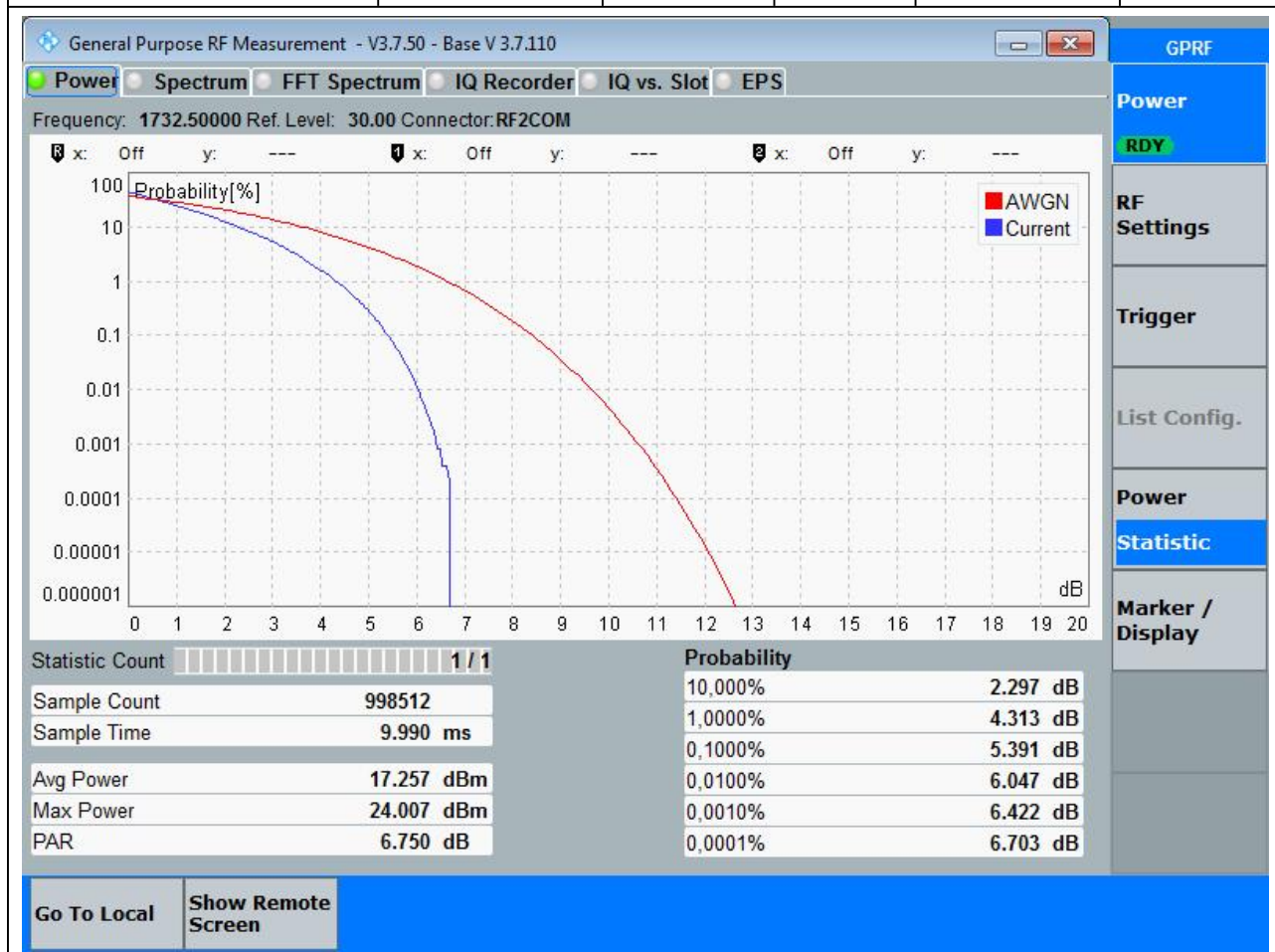
2.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	20	4.73	13	Pass



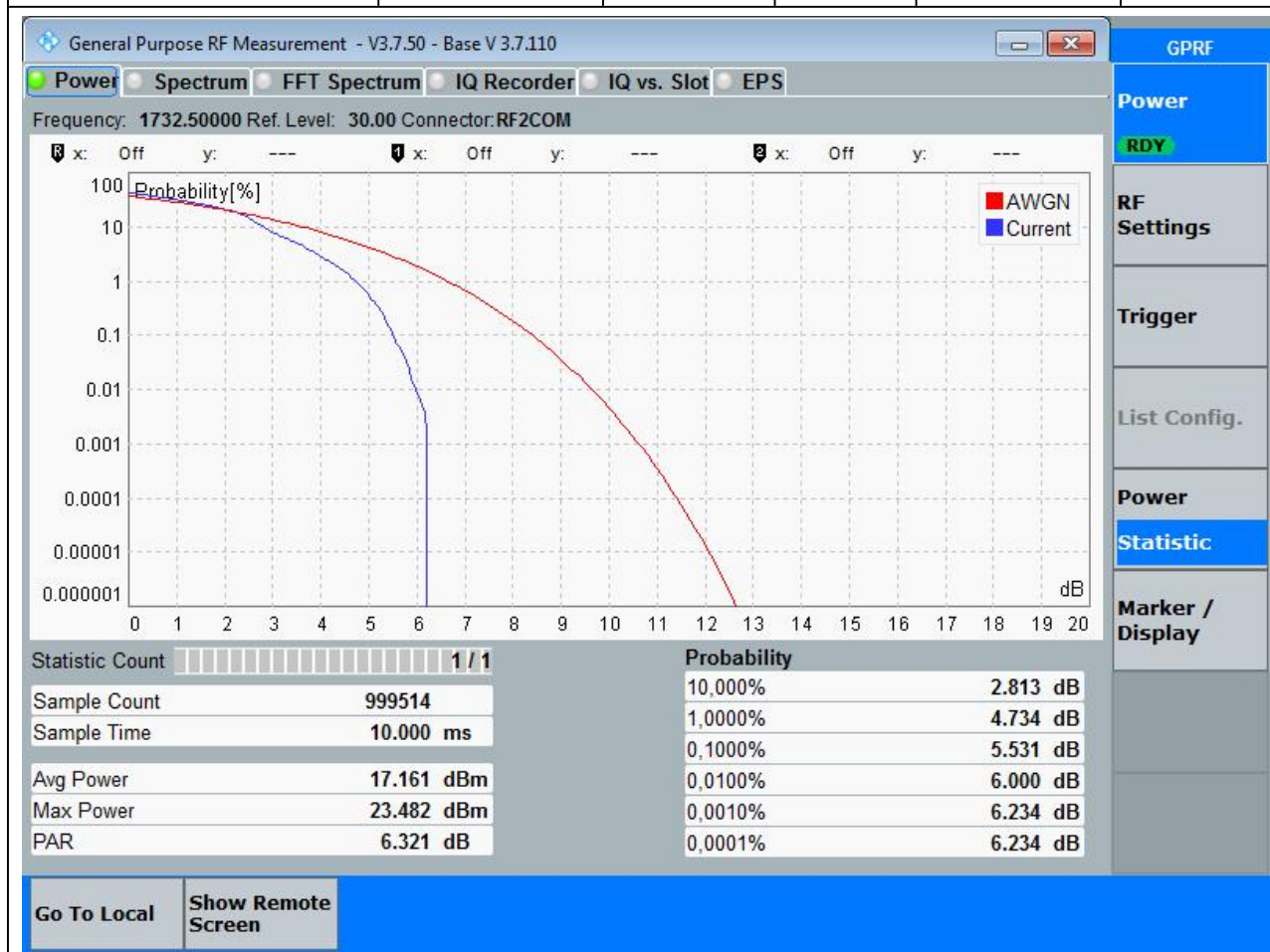
2.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	20	5.39	13	Pass



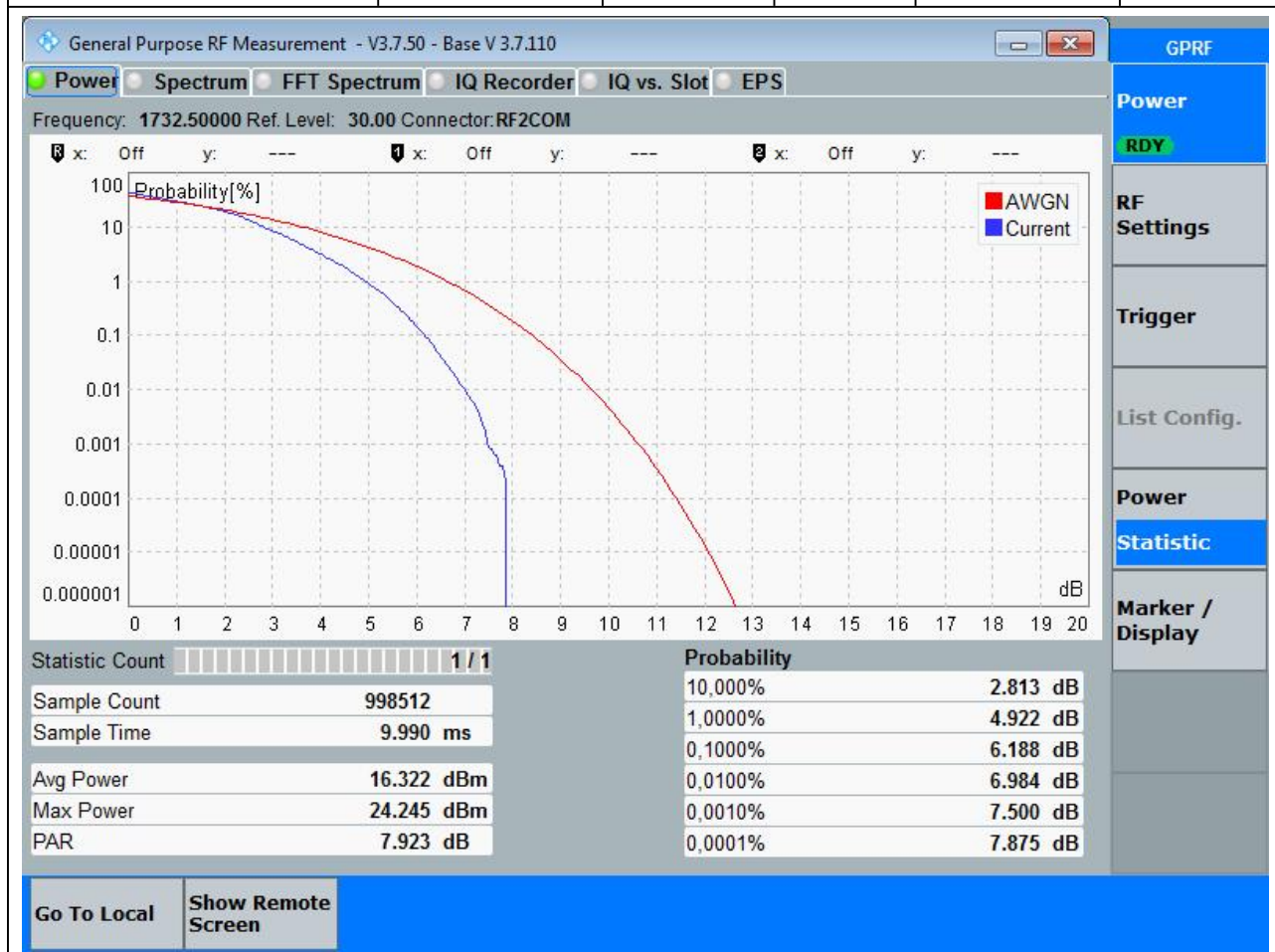
2.13 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	20	5.53	13	Pass



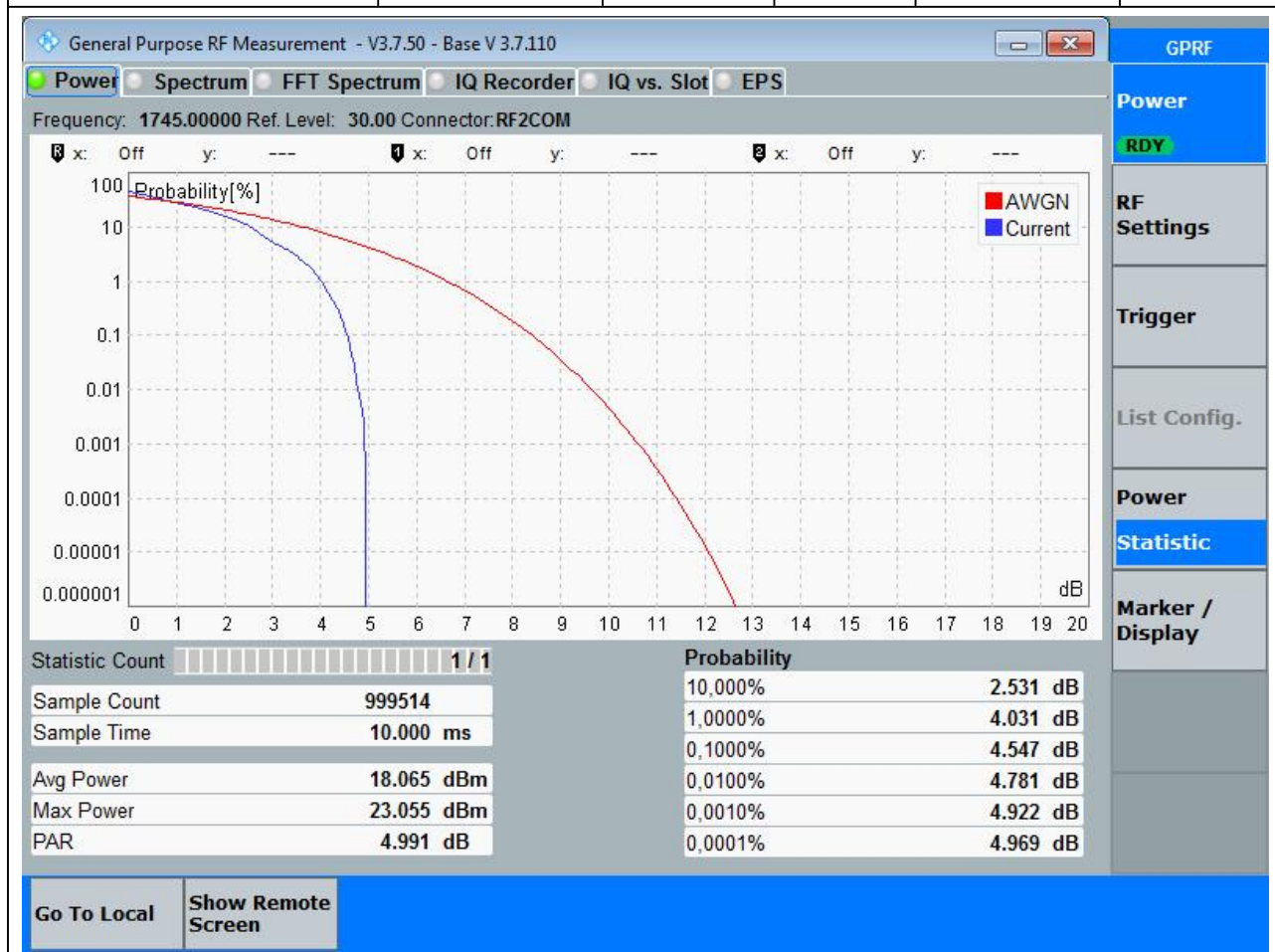
2.14 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	20	6.19	13	Pass



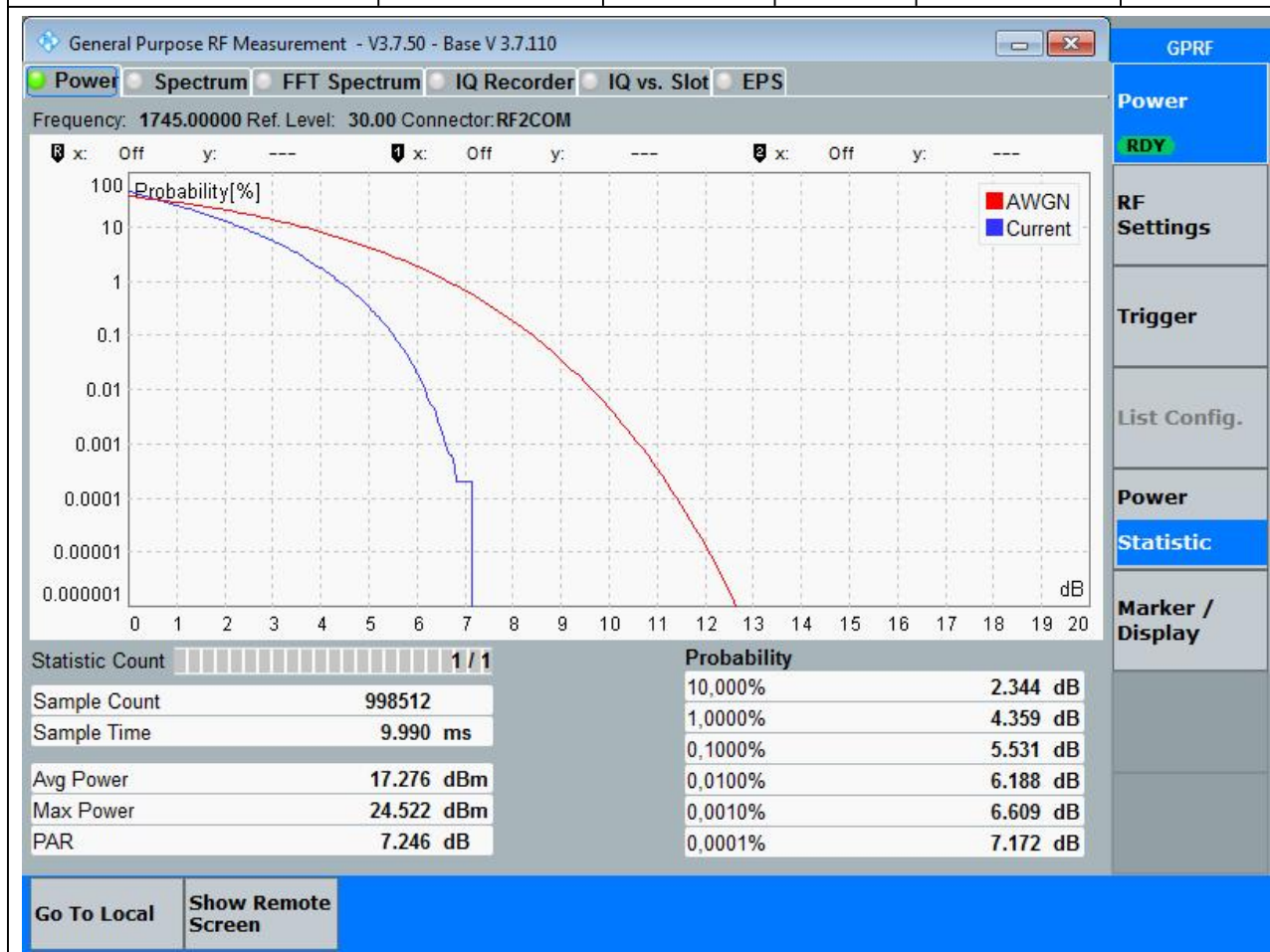
2.15 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	20	4.55	13	Pass



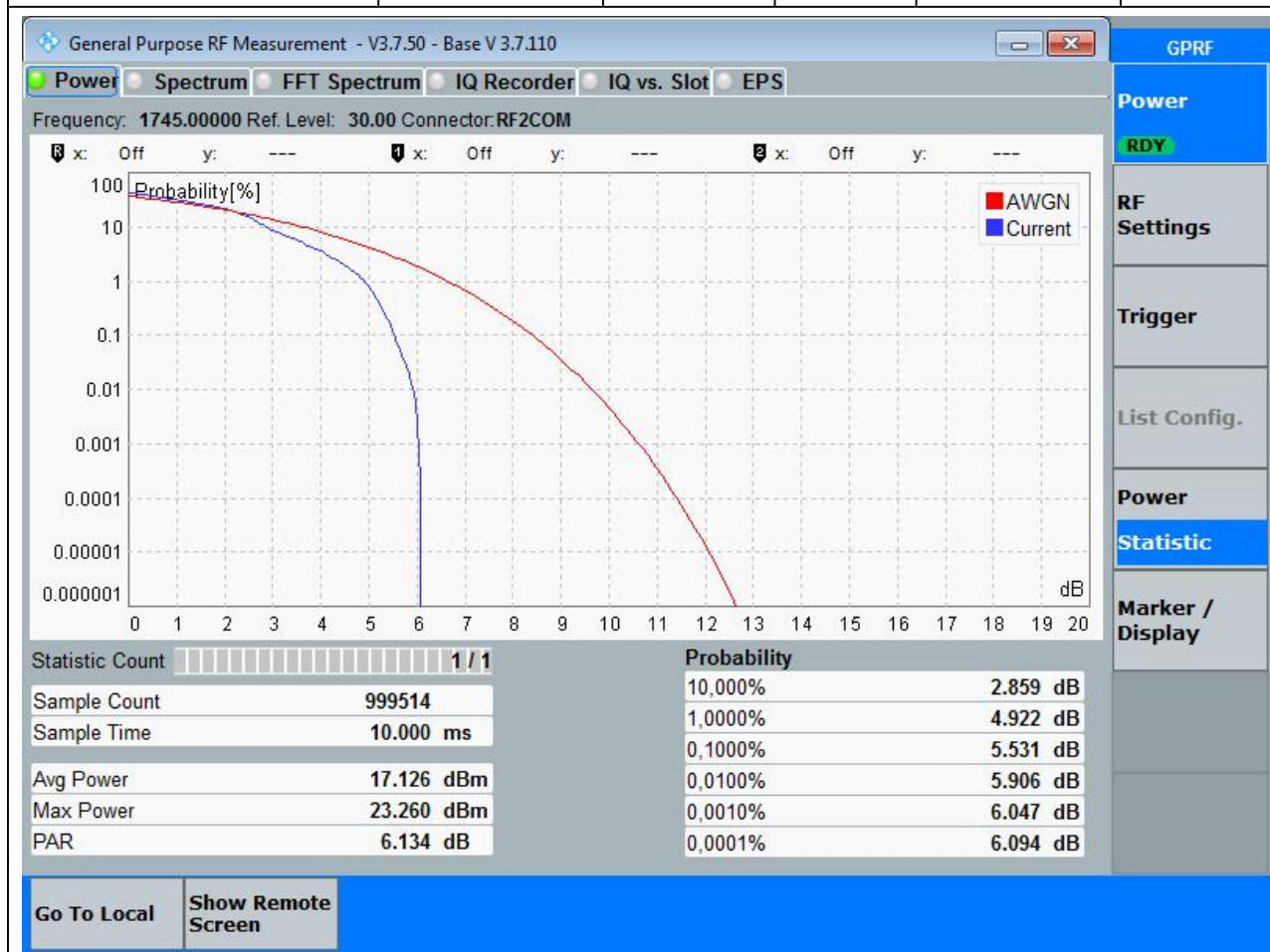
2.16 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	20	5.53	13	Pass



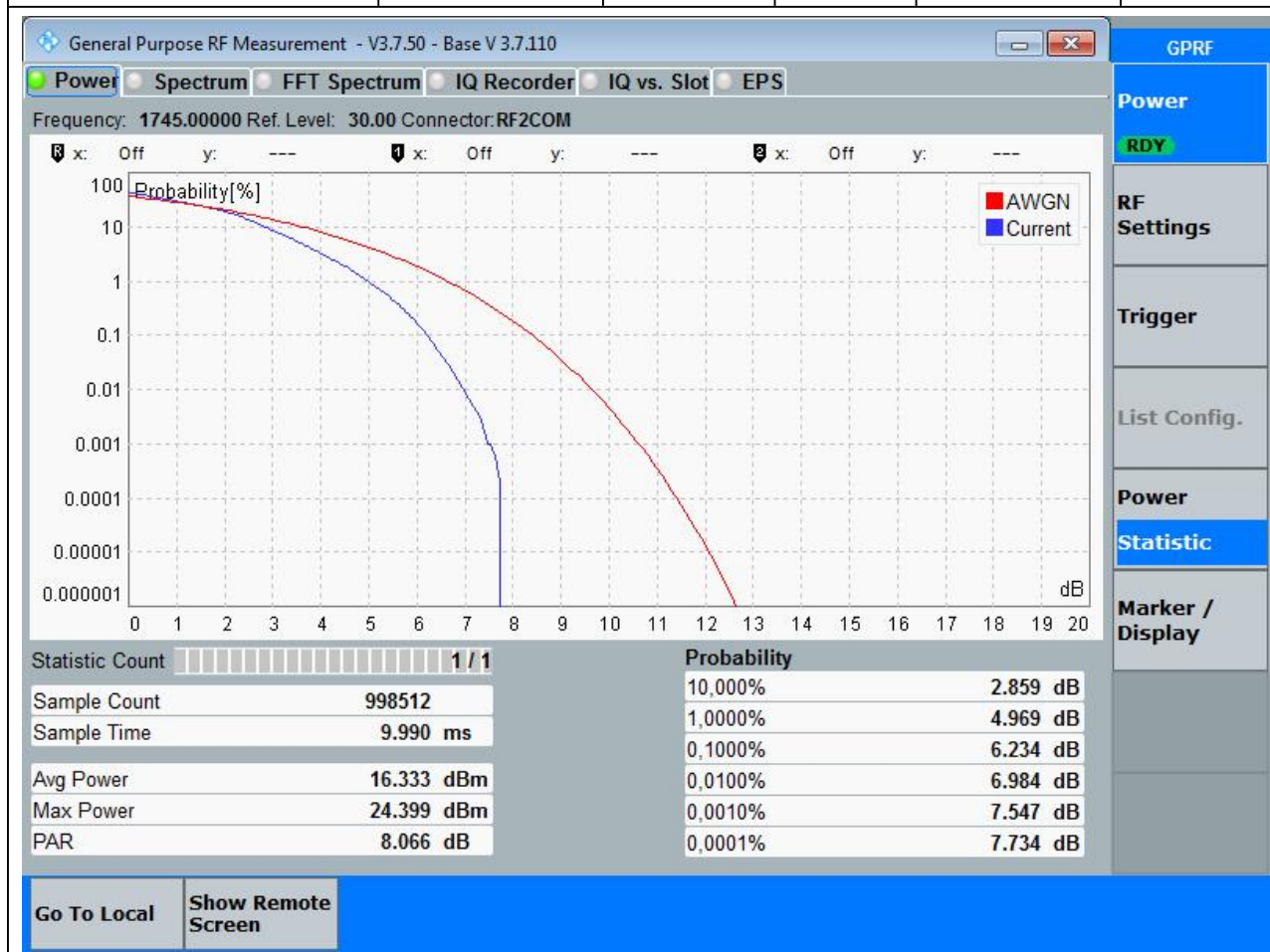
2.17 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	20	5.53	13	Pass



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

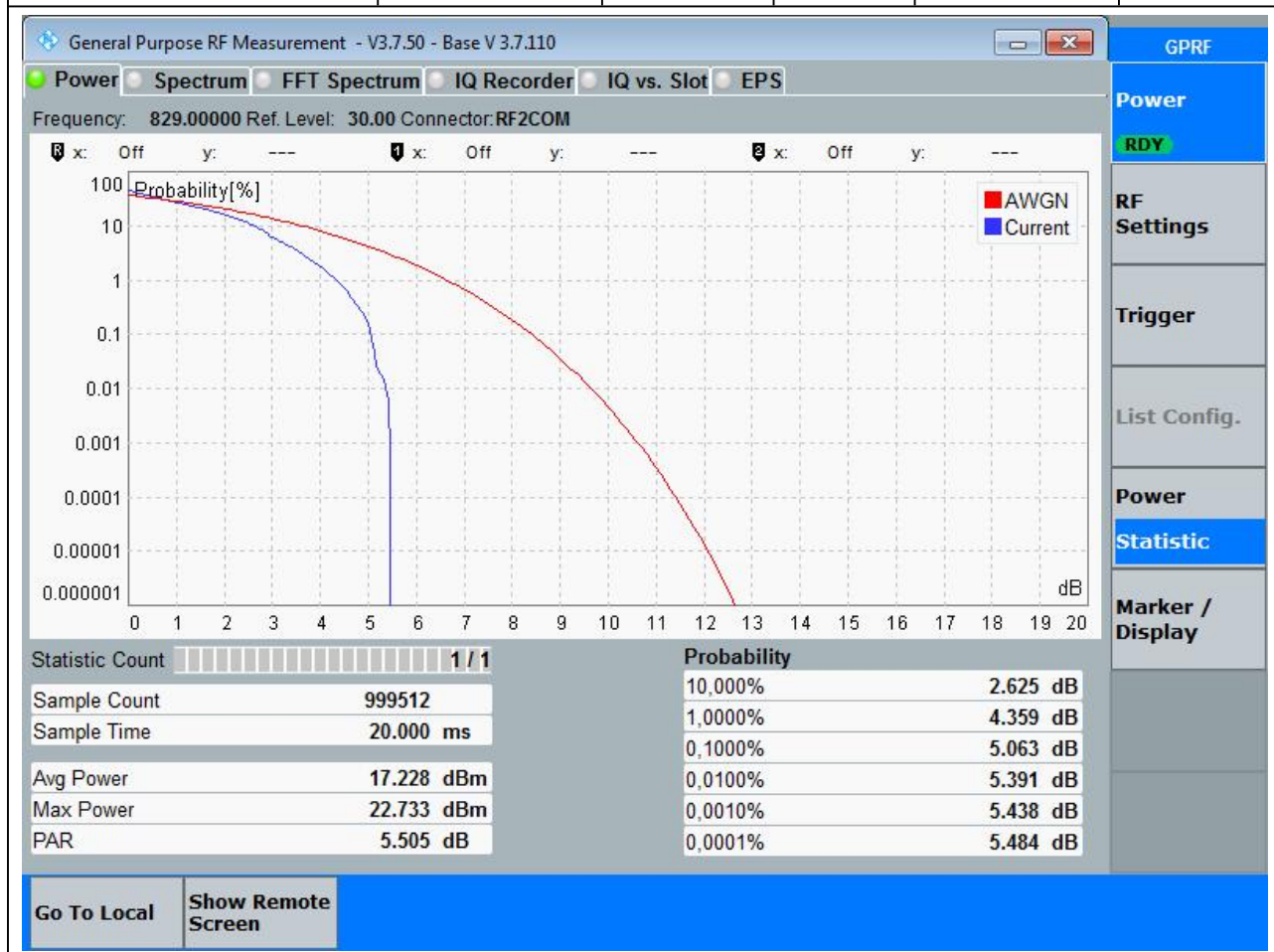
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	20	6.23	13	Pass



3. LTE_Band5

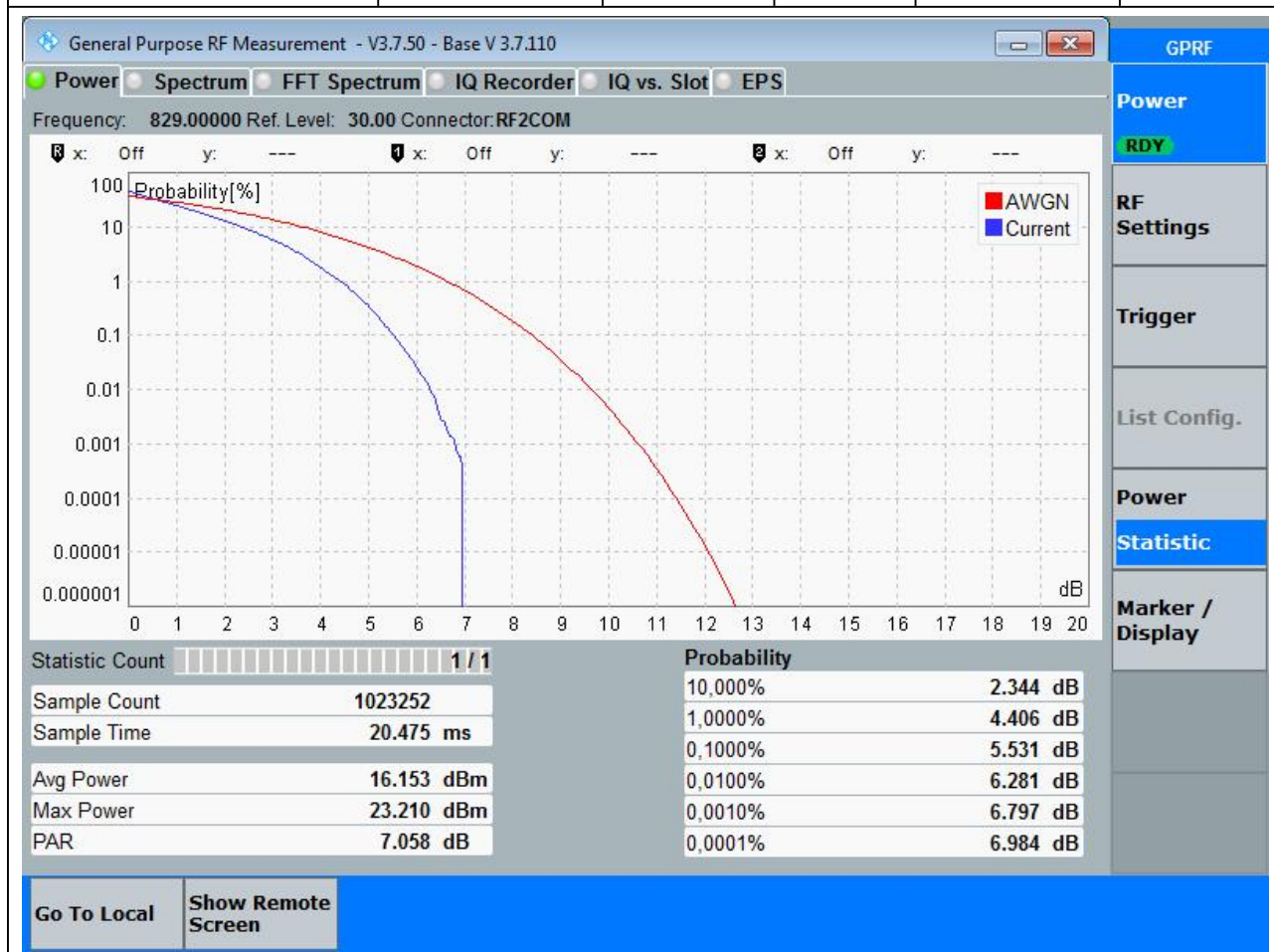
3.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	10	5.06	13	Pass



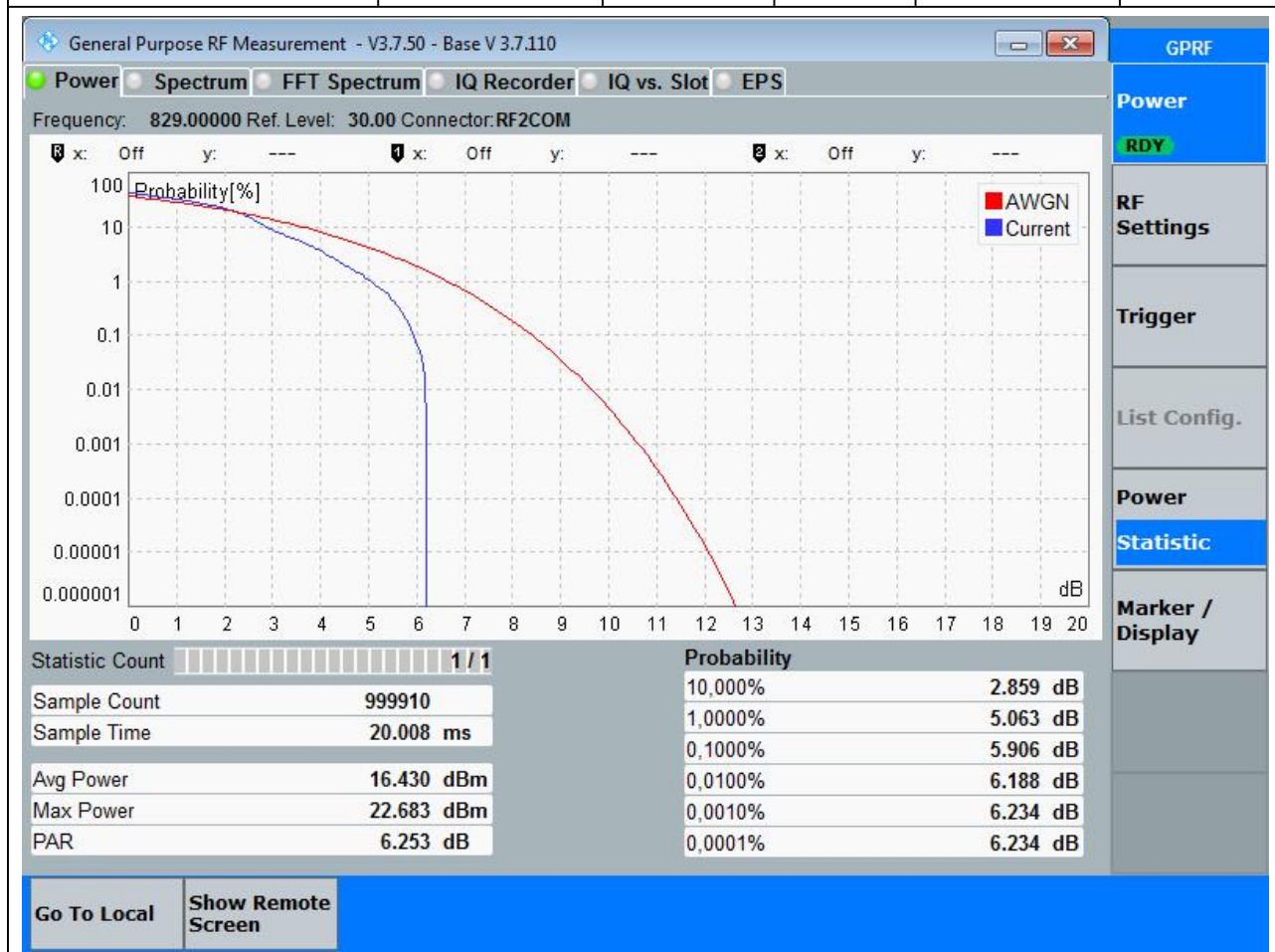
3.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	10	5.53	13	Pass



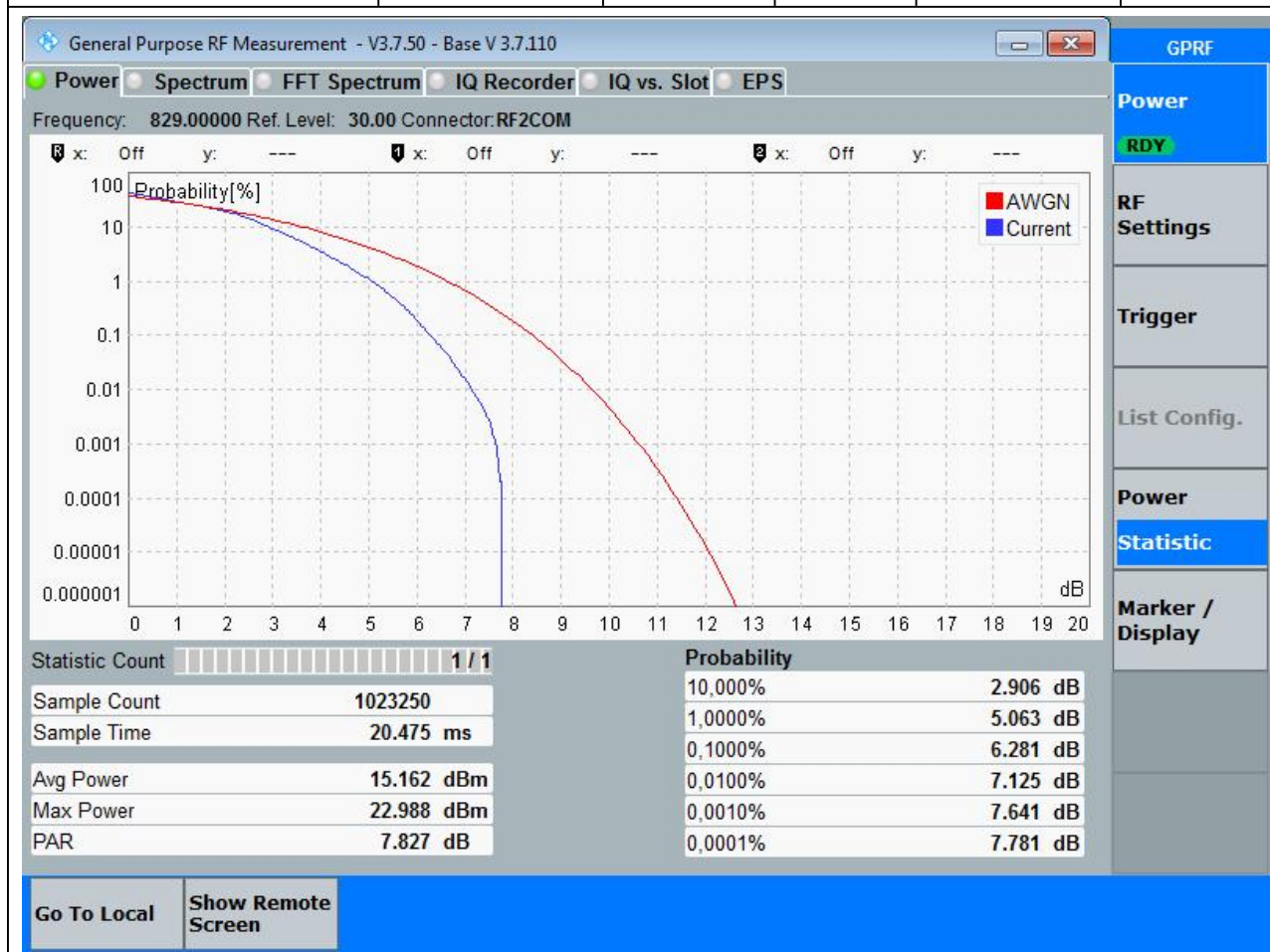
3.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	10	5.91	13	Pass



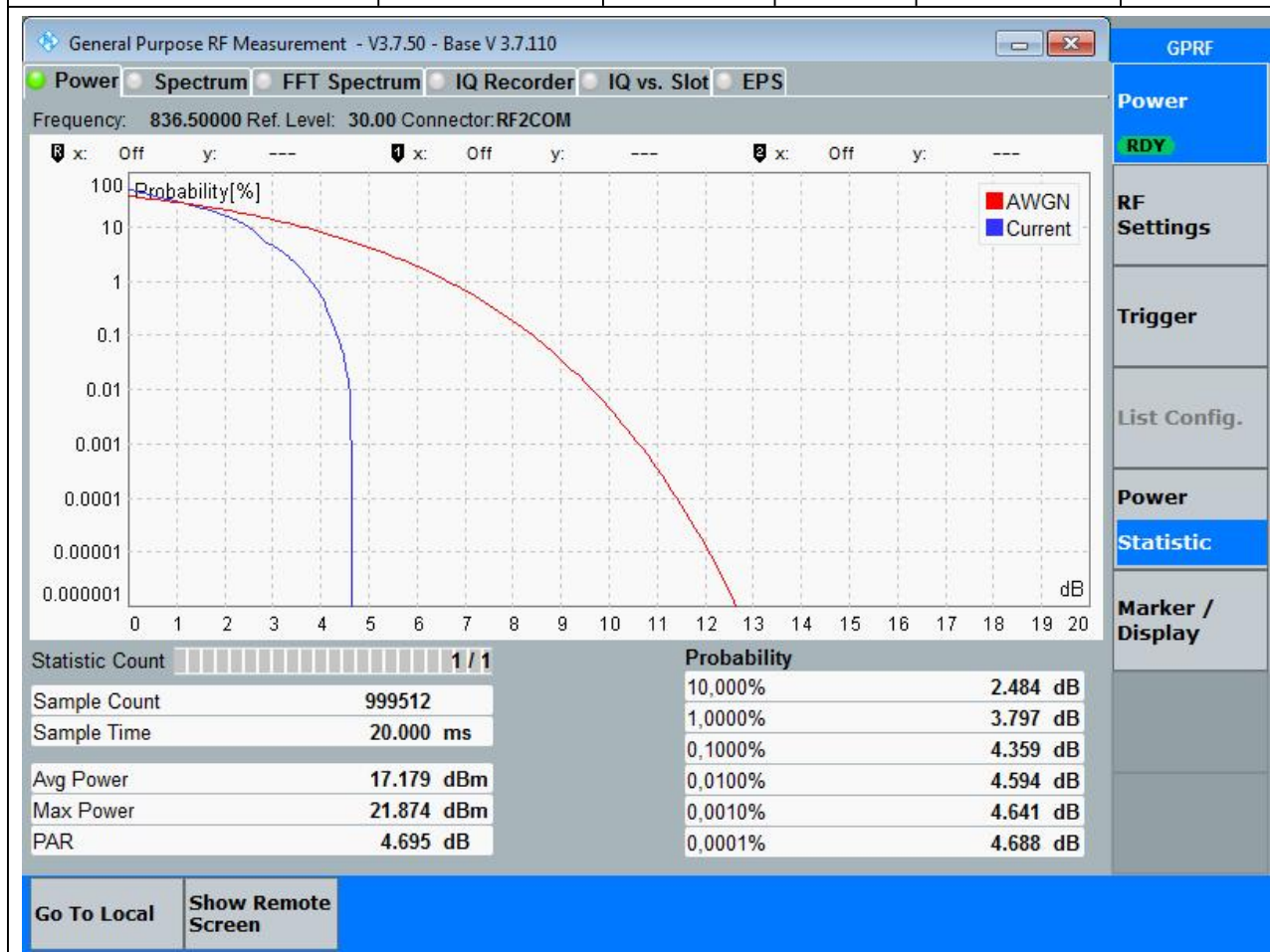
3.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	10	6.28	13	Pass



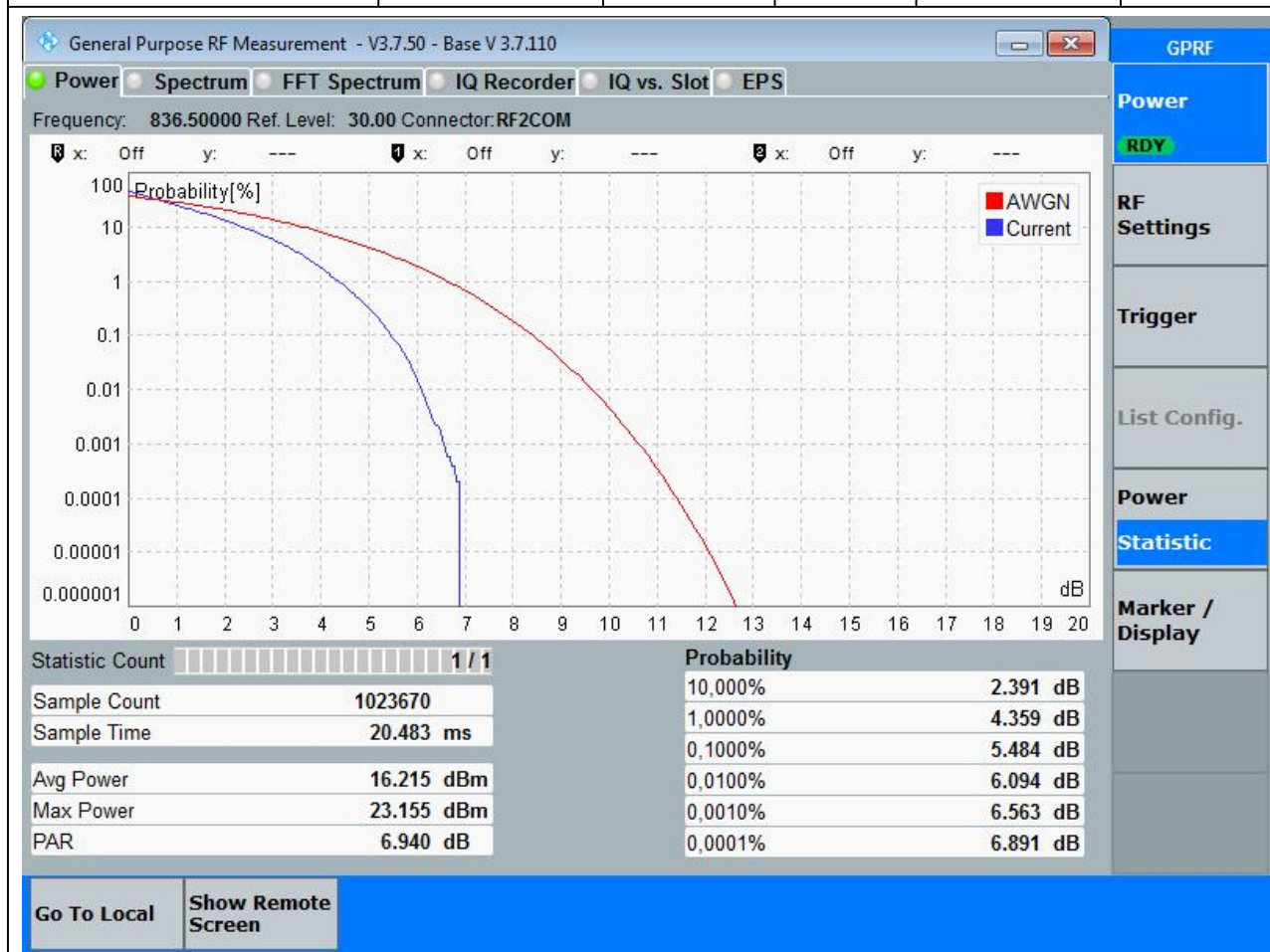
3.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	10	4.36	13	Pass



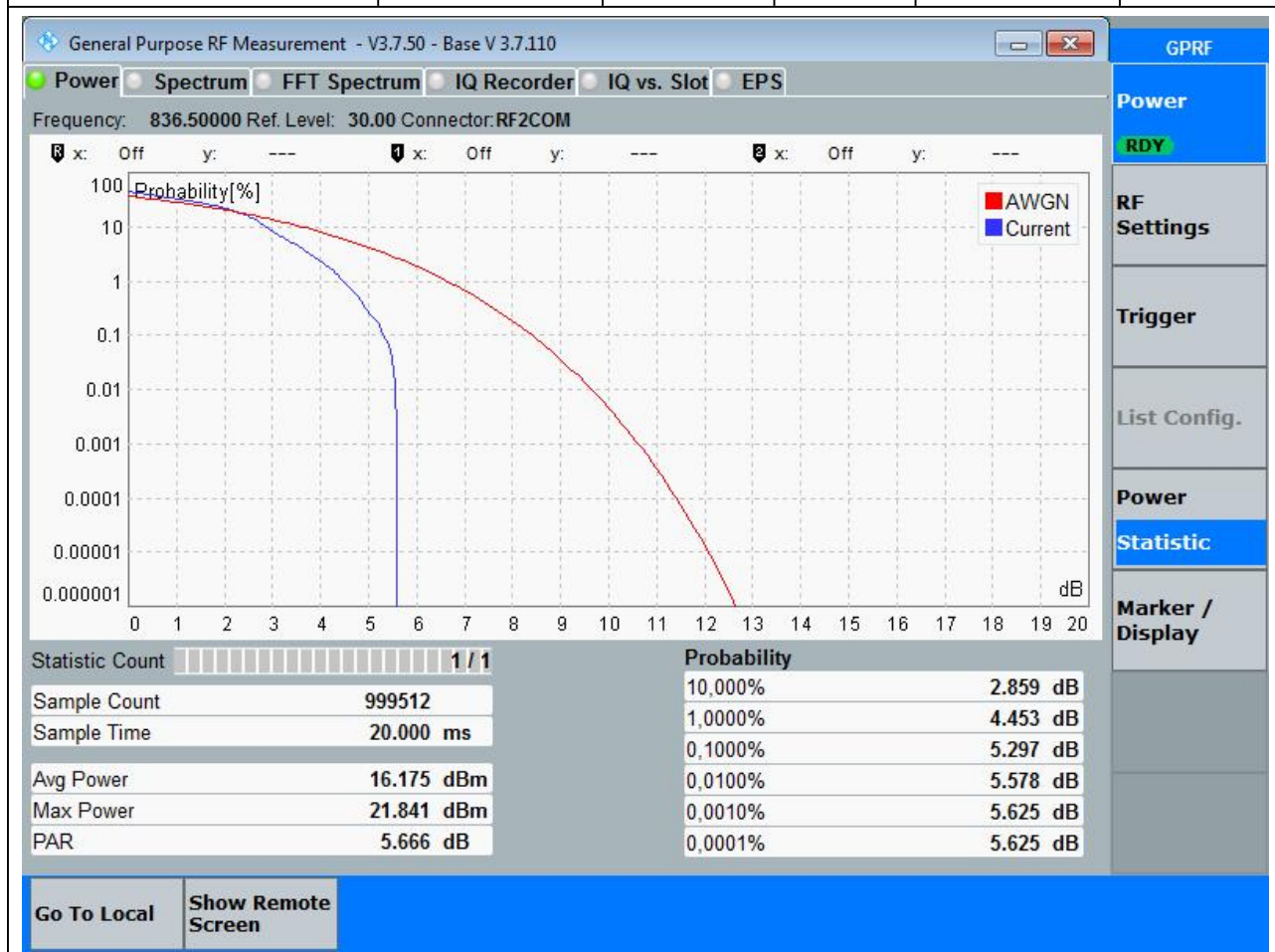
3.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	10	5.48	13	Pass



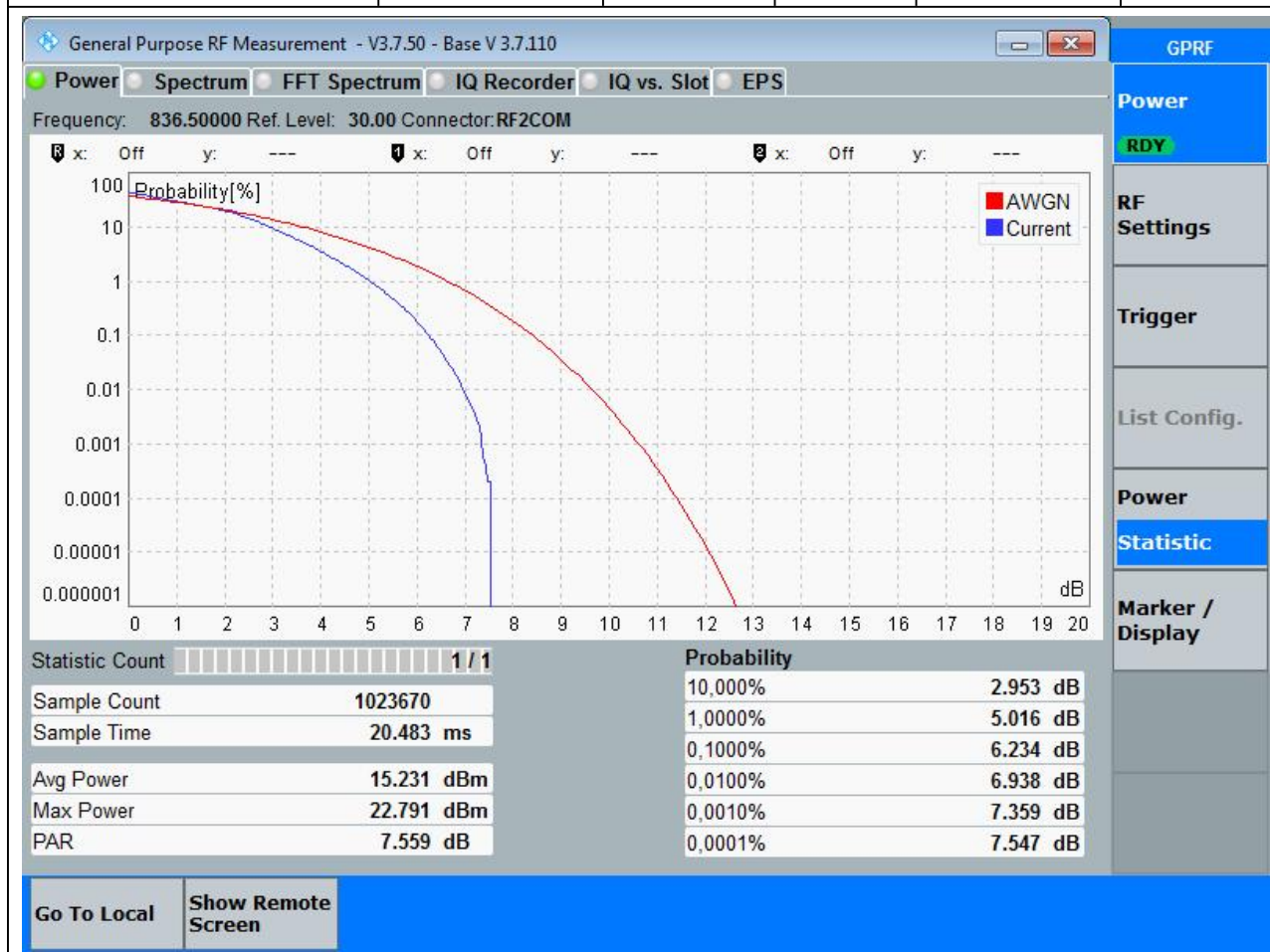
3.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	10	5.3	13	Pass



3.8 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 (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
836.5	0.1	10	6.23	13	Pass



3.9 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 (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	10	4.55	13	Pass

