

Peak to Average Ratio

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Verdict
Band 2	LCH	3	13	Pass
	MCH	2.95	13	Pass
	HCH	2.91	13	Pass
Band 4	LCH	2.86	13	Pass
	MCH	2.95	13	Pass
	HCH	2.77	13	Pass
Band 5	LCH	3	13	Pass
	MCH	3.05	13	Pass
	HCH	2.91	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	4.36	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	4.69	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.48	13	Pass
				RB100#0	6.23	13	Pass
		HCH	QPSK	RB1#0	4.78	13	Pass
				RB100#0	5.39	13	Pass
			16-QAM	RB1#0	5.48	13	Pass
				RB100#0	6.14	13	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.36	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	4.97	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	4.78	13	Pass
				RB100#0	5.62	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB100#0	6.33	13	Pass
		HCH	QPSK	RB1#0	4.83	13	Pass
				RB100#0	5.58	13	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
			16-QAM	RB1#0	5.58	13	Pass
				RB100#0	6.28	13	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	5.34	13	Pass
				RB50#0	5.67	13	Pass
			16-QAM	RB1#0	5.91	13	Pass
				RB50#0	6.42	13	Pass
		MCH	QPSK	RB1#0	5.53	13	Pass
				RB50#0	5.72	13	Pass
			16-QAM	RB1#0	6.37	13	Pass
				RB50#0	6.47	13	Pass
		HCH	QPSK	RB1#0	5.44	13	Pass
				RB50#0	5.62	13	Pass
			16-QAM	RB1#0	6	13	Pass
				RB50#0	6.37	13	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	4.92	13	Pass
				RB100#0	5.72	13	Pass
			16-QAM	RB1#0	5.67	13	Pass
				RB100#0	6.37	13	Pass
		MCH	QPSK	RB1#0	4.97	13	Pass
				RB100#0	5.67	13	Pass
			16-QAM	RB1#0	5.67	13	Pass
				RB100#0	6.37	13	Pass
		HCH	QPSK	RB1#0	5.06	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB100#0	6.37	13	Pass
LTE Band 12	10 MHz	LCH	QPSK	RB1#0	5.2	13	Pass
				RB50#0	5.67	13	Pass
			16-QAM	RB1#0	5.91	13	Pass
				RB50#0	6.47	13	Pass
		MCH	QPSK	RB1#0	5.48	13	Pass
				RB50#0	5.81	13	Pass
			16-QAM	RB1#0	6.52	13	Pass
				RB50#0	6.47	13	Pass
		HCH	QPSK	RB1#0	5.39	13	Pass
				RB50#0	5.62	13	Pass
			16-QAM	RB1#0	6.19	13	Pass
				RB50#0	6.47	13	Pass

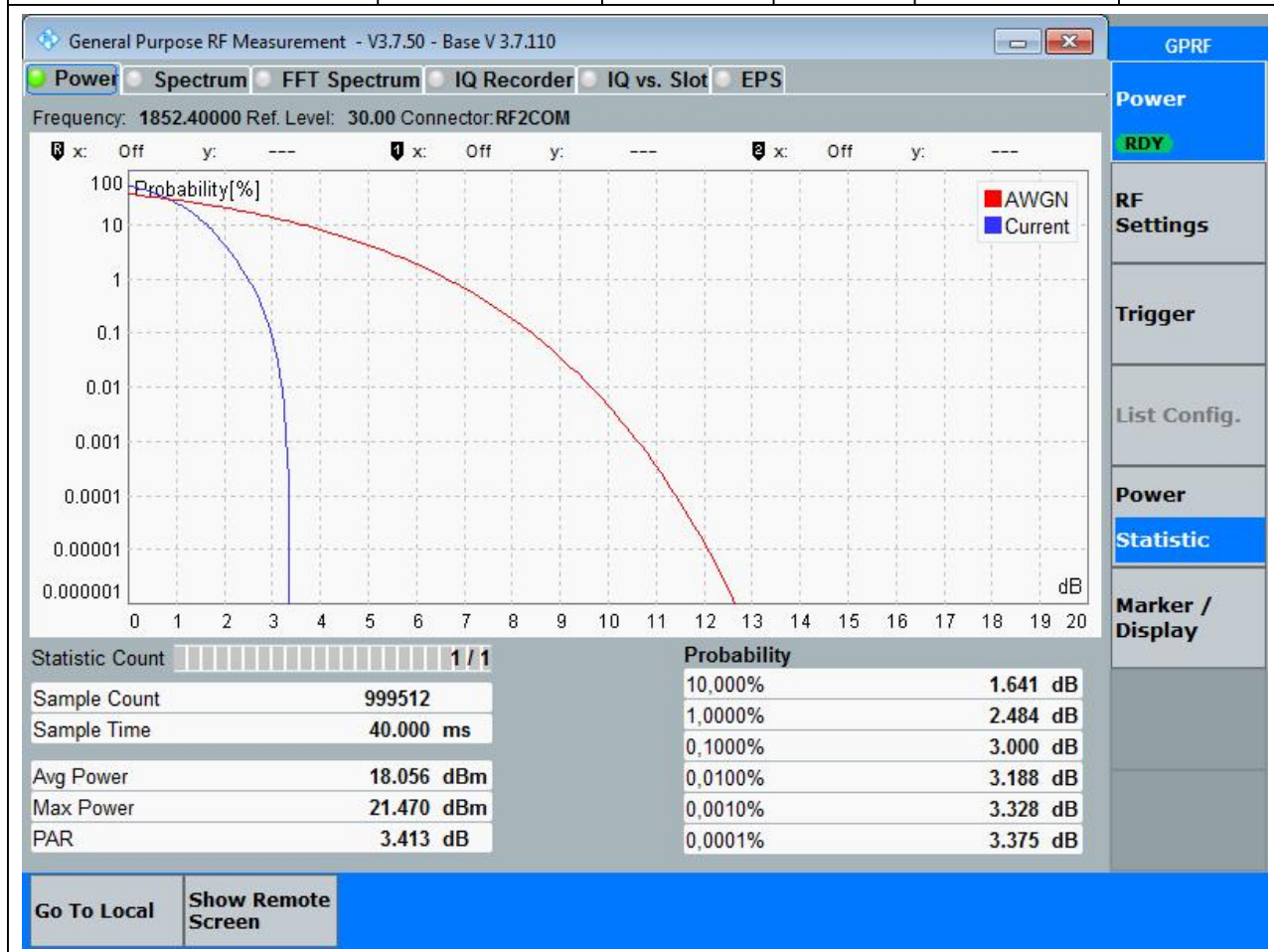
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
LTE Band 17	10 MHz	LCH	QPSK	RB1#0	5.34	13	Pass
				RB50#0	5.72	13	Pass
			16-QAM	RB1#0	6	13	Pass
				RB50#0	6.47	13	Pass
		MCH	QPSK	RB1#0	5.39	13	Pass
				RB50#0	5.72	13	Pass
			16-QAM	RB1#0	6.42	13	Pass
				RB50#0	6.47	13	Pass
		HCH	QPSK	RB1#0	5.39	13	Pass
				RB50#0	5.62	13	Pass
			16-QAM	RB1#0	6.19	13	Pass
				RB50#0	6.42	13	Pass
LTE Band 26(Part 22)	15 MHz	LCH	QPSK	RB1#0	5.53	13	Pass
				RB75#0	6	13	Pass
			16-QAM	RB1#0	6.05	13	Pass
				RB75#0	6.42	13	Pass
		MCH	QPSK	RB1#0	5.44	13	Pass
				RB75#0	6.05	13	Pass
			16-QAM	RB1#0	6.23	13	Pass
				RB75#0	6.42	13	Pass
		HCH	QPSK	RB1#0	5.44	13	Pass
				RB75#0	6.05	13	Pass
			16-QAM	RB1#0	6	13	Pass
				RB75#0	6.42	13	Pass
LTE Band 26(Part 90)	10 MHz	LCH	QPSK	RB1#0	5.53	13	Pass
				RB50#0	5.77	13	Pass
			16-QAM	RB1#0	6.33	13	Pass
				RB50#0	6.37	13	Pass
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	8.81	13	Pass
				RB100#0	9.28	13	Pass
			16-QAM	RB1#0	9.33	13	Pass
				RB100#0	9.89	13	Pass
		MCH	QPSK	RB1#0	8.72	13	Pass
				RB100#0	9.28	13	Pass
			16-QAM	RB1#0	8.81	13	Pass
				RB100#0	9.84	13	Pass
		HCH	QPSK	RB1#0	8.25	13	Pass
				RB100#0	9.14	13	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
			16-QAM	RB1#0	8.86	13	Pass
				RB100#0	9.75	13	Pass
LTE Band 41	20 MHz	LCH	QPSK	RB1#0	8.39	13	Pass
				RB100#0	9.23	13	Pass
			16-QAM	RB1#0	8.53	13	Pass
				RB100#0	9.84	13	Pass
		MCH	QPSK	RB1#0	8.25	13	Pass
				RB100#0	9.09	13	Pass
			16-QAM	RB1#0	8.81	13	Pass
				RB100#0	9.7	13	Pass
		HCH	QPSK	RB1#0	9	13	Pass
				RB100#0	9.28	13	Pass
			16-QAM	RB1#0	9.28	13	Pass
				RB100#0	9.89	13	Pass
LTE Band 66	20 MHz	LCH	QPSK	RB1#0	4.22	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB100#0	6.23	13	Pass
		MCH	QPSK	RB1#0	4.45	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.67	13	Pass
				RB100#0	6.14	13	Pass
		HCH	QPSK	RB1#0	3.84	13	Pass
				RB100#0	5.2	13	Pass
			16-QAM	RB1#0	4.64	13	Pass
				RB100#0	6	13	Pass

1. WCDMA_Band2

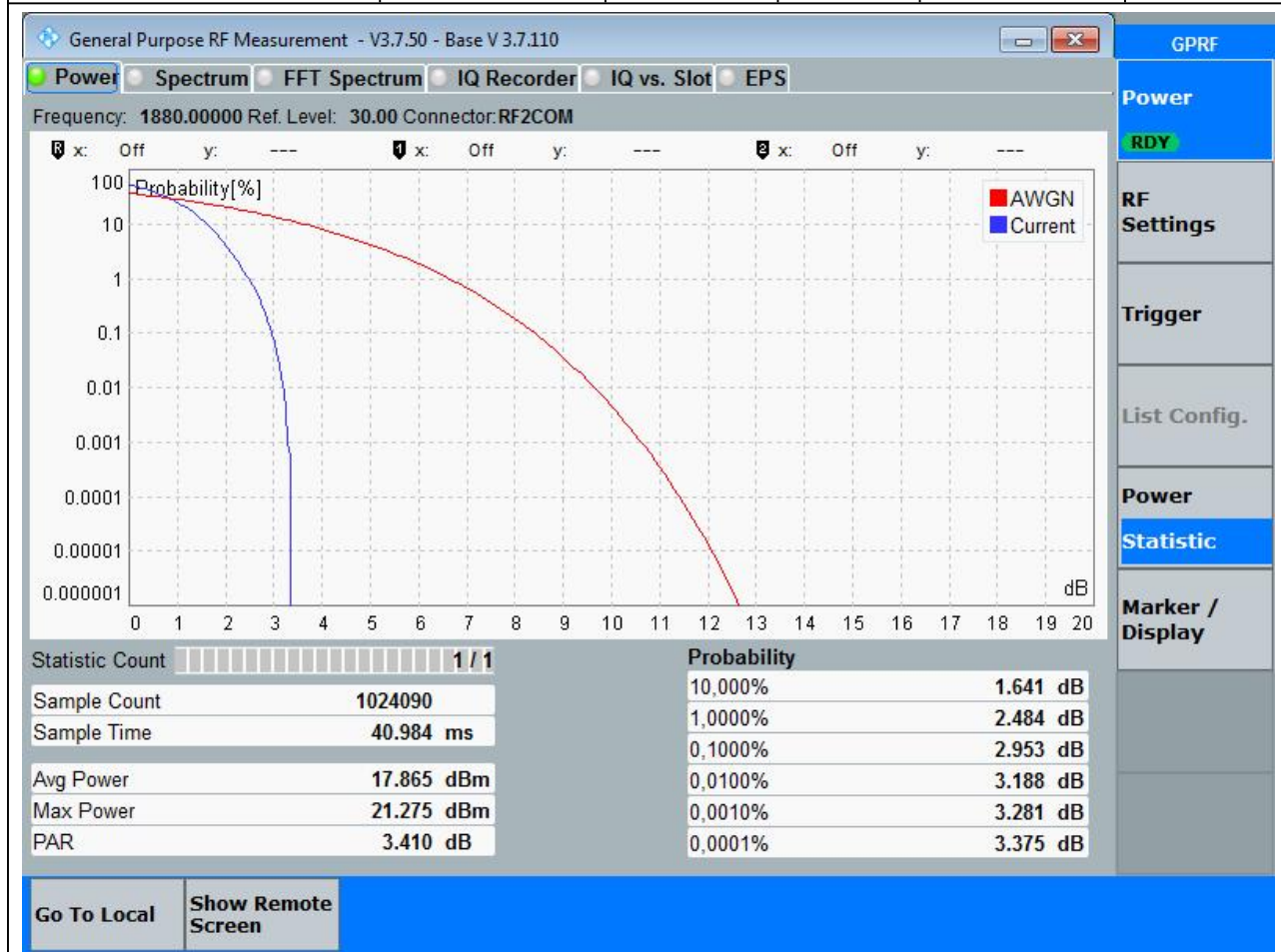
1.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9262)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1852.4	0.1	5	3	13	Pass



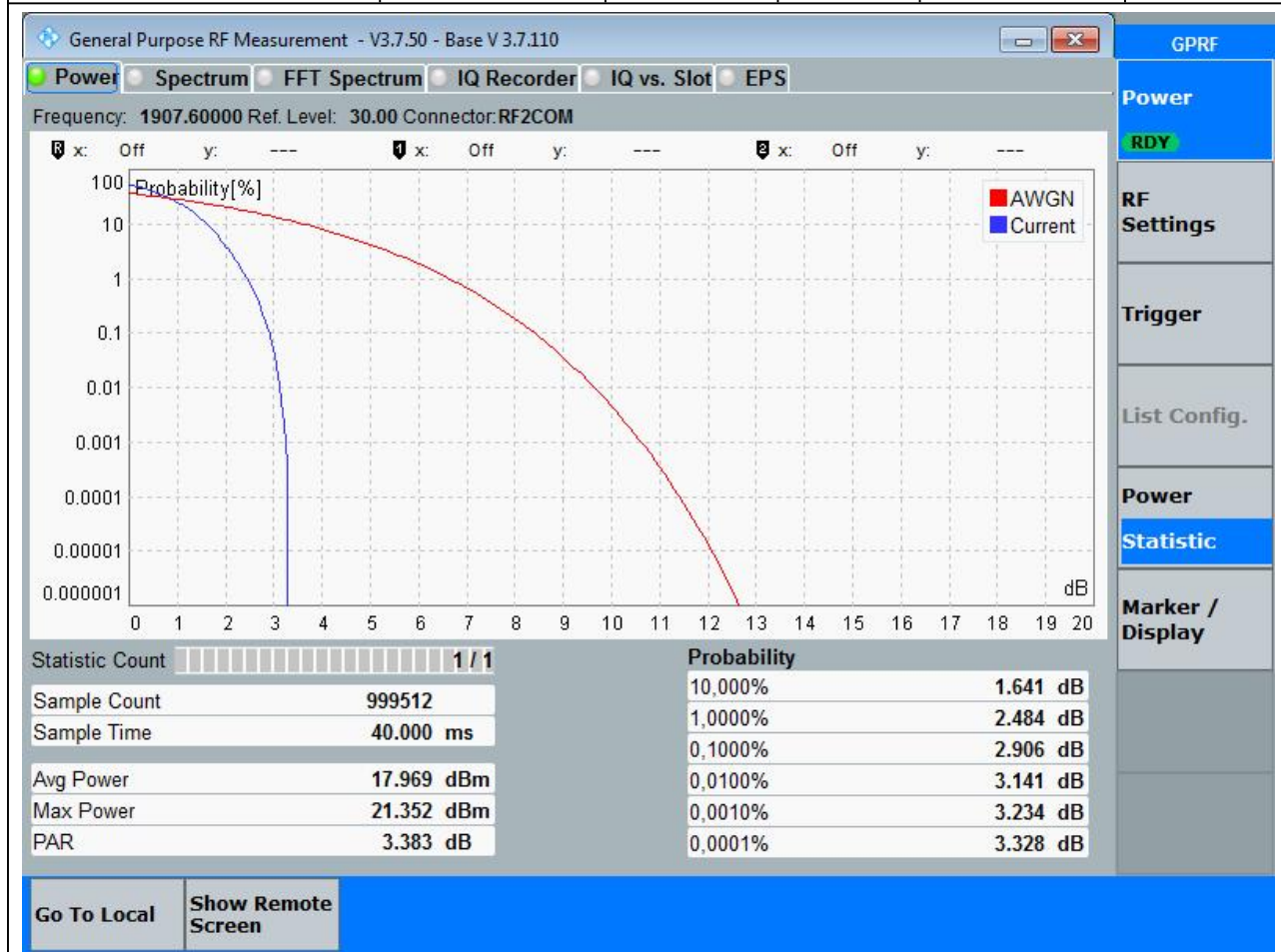
1.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:9400)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	5	2.95	13	Pass



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

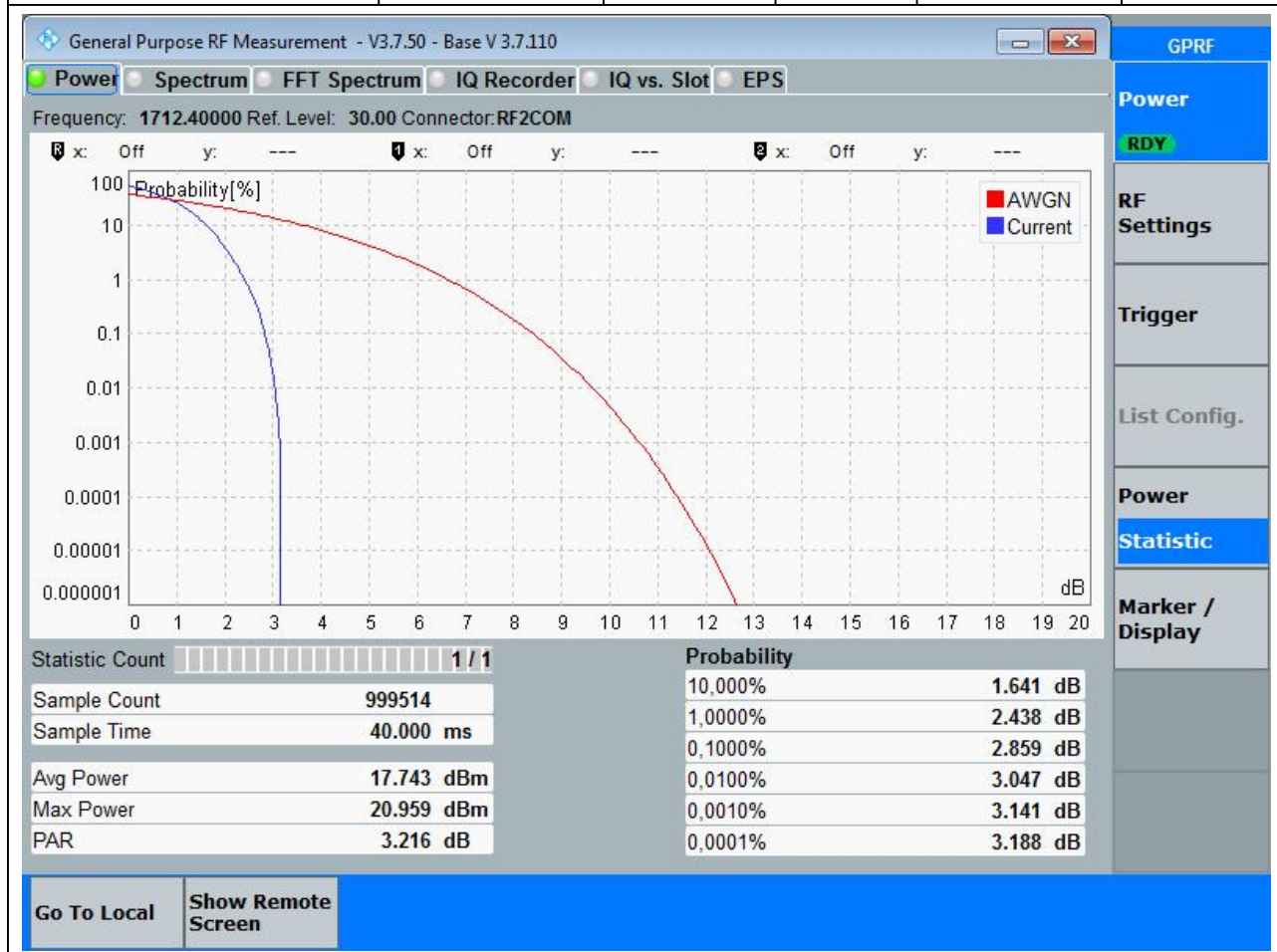
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1907.6	0.1	5	2.91	13	Pass



2. WCDMA_Band4

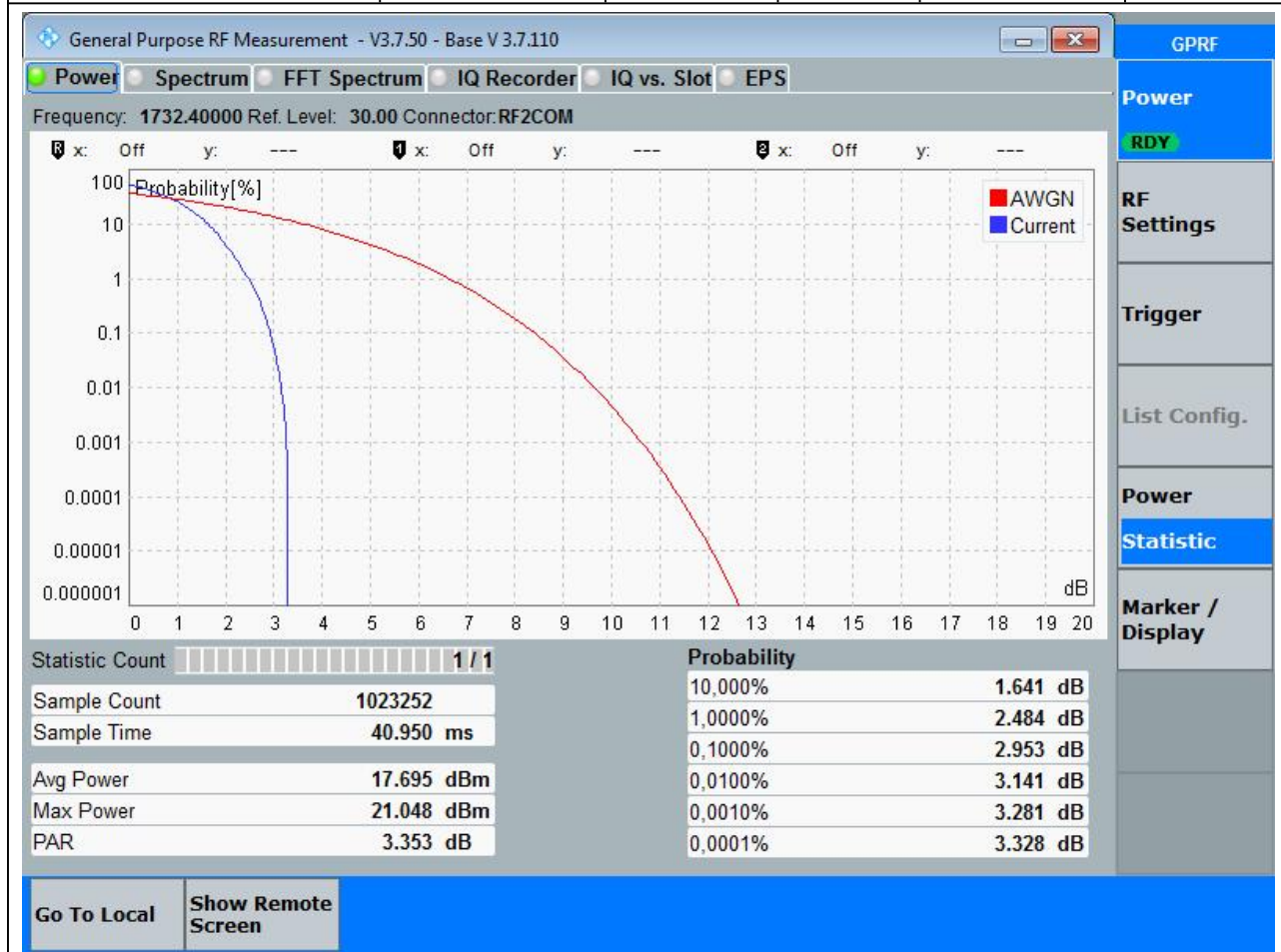
2.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:1312)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1712.4	0.1	5	2.86	13	Pass



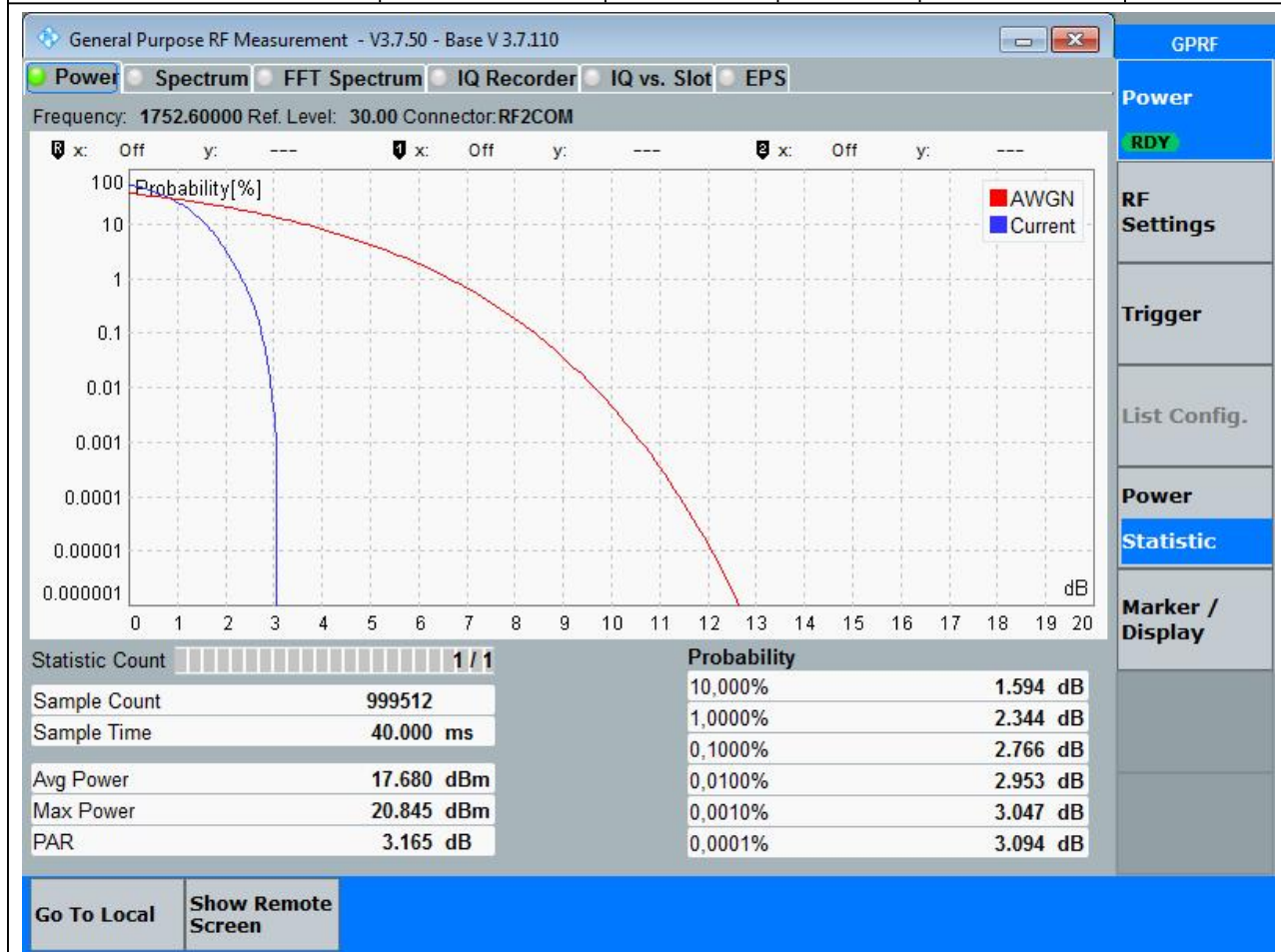
2.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:1412)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.4	0.1	5	2.95	13	Pass



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

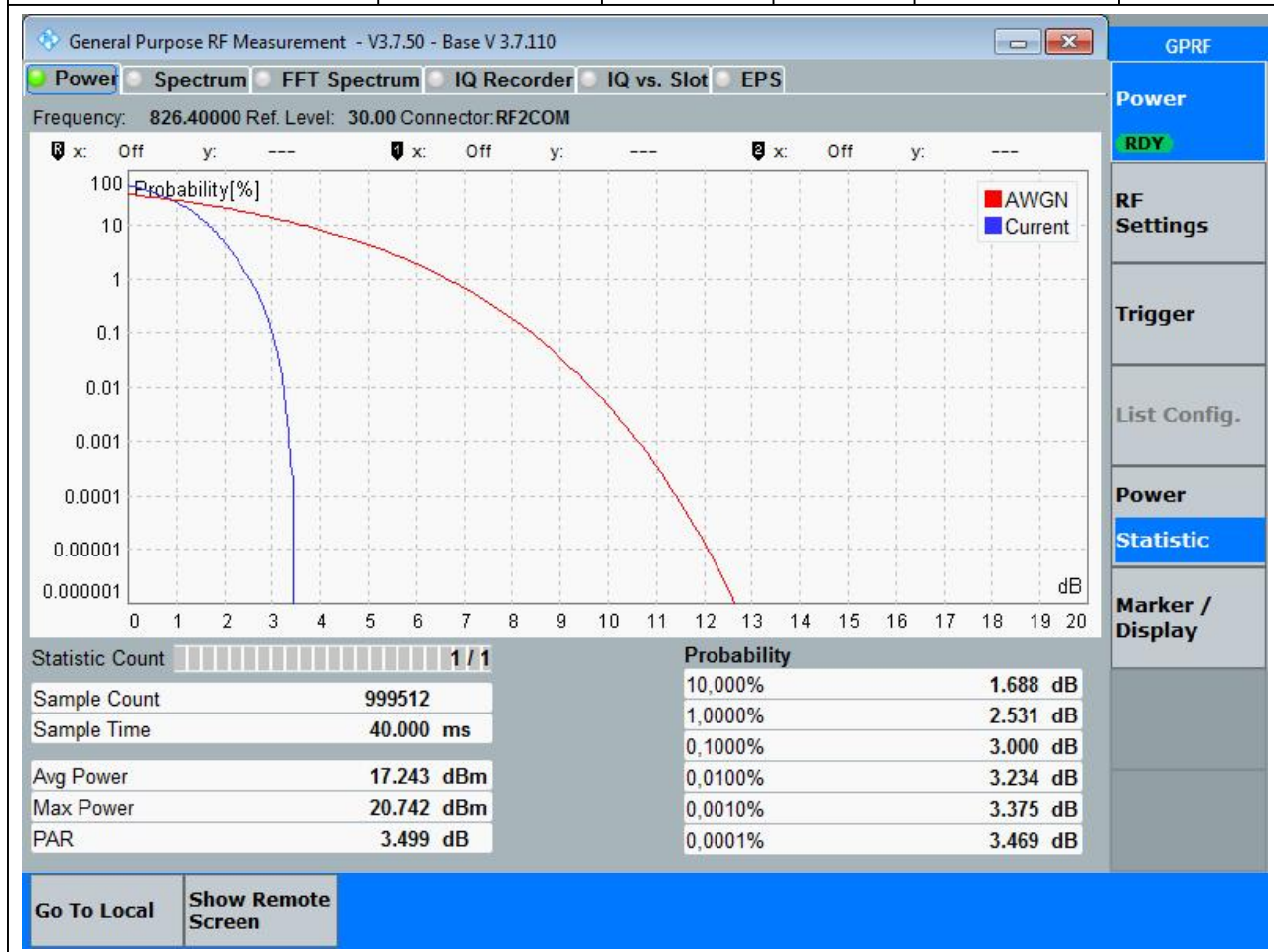
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1752.6	0.1	5	2.77	13	Pass



3. WCDMA_Band5

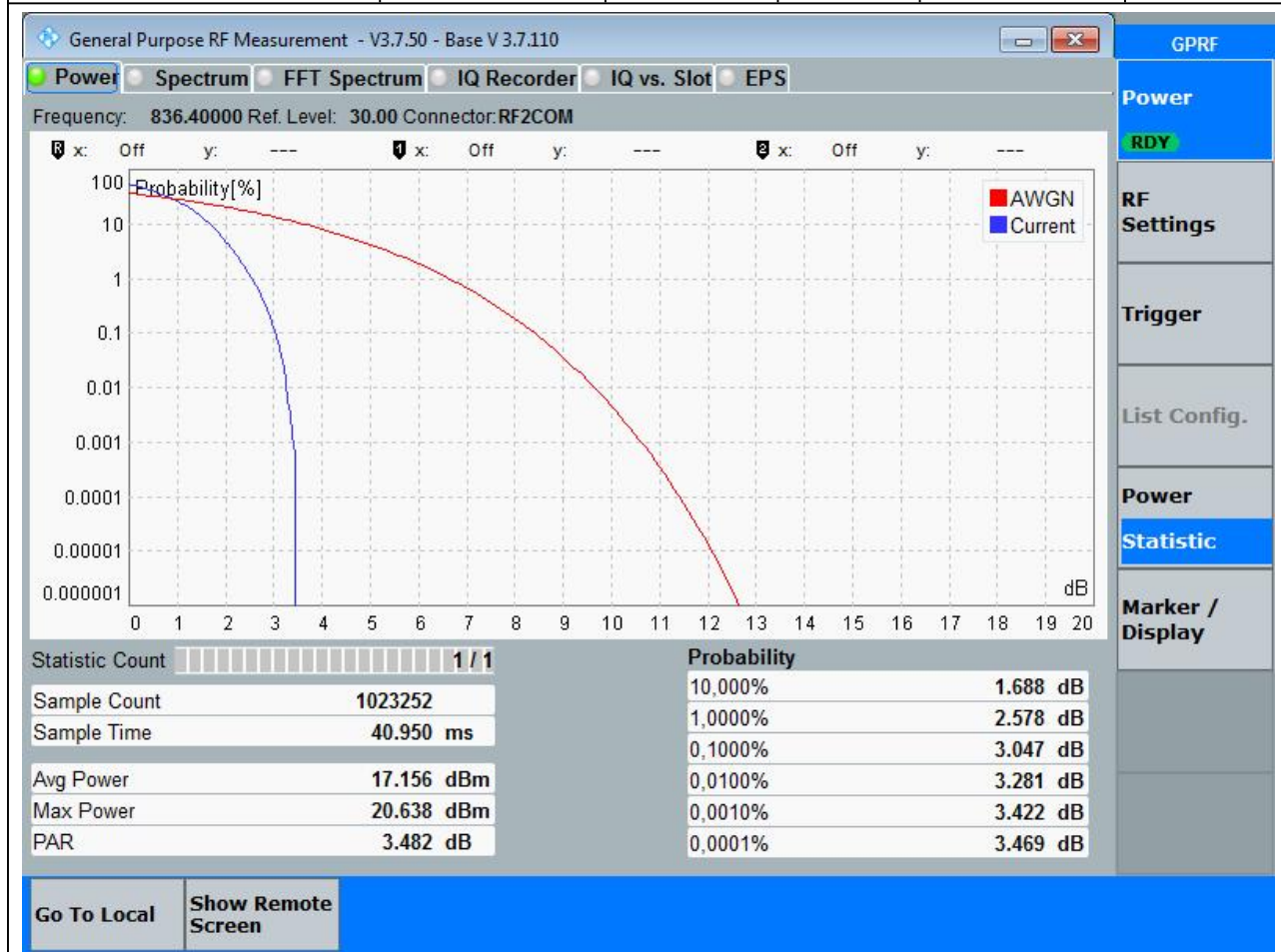
3.1 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:4132)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
826.4	0.1	5	3	13	Pass



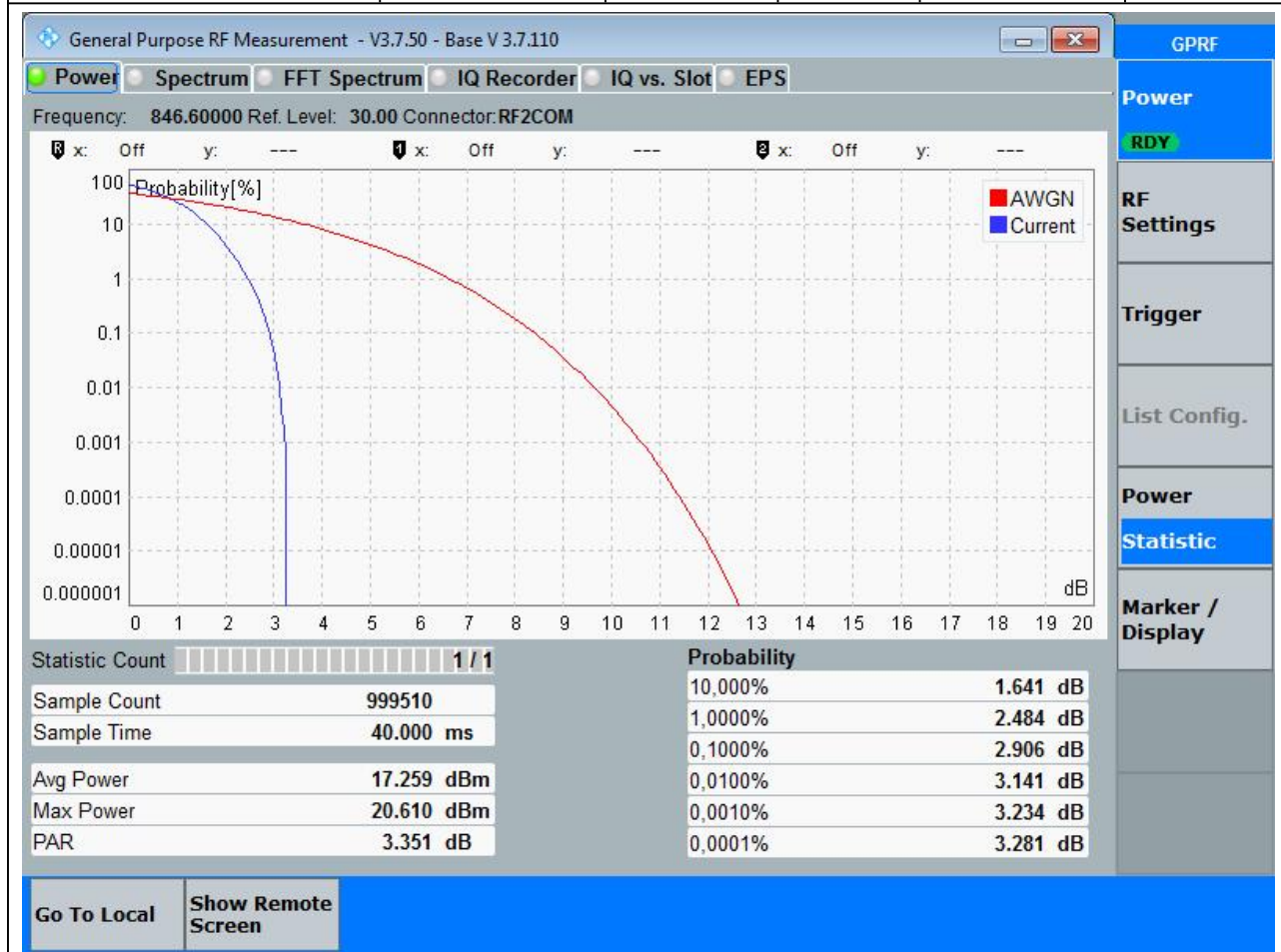
3.2 WCDMA Peak to Average Ratio_Part22-24-27(NTNV)(Channel:4182)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
836.4	0.1	5	3.05	13	Pass



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

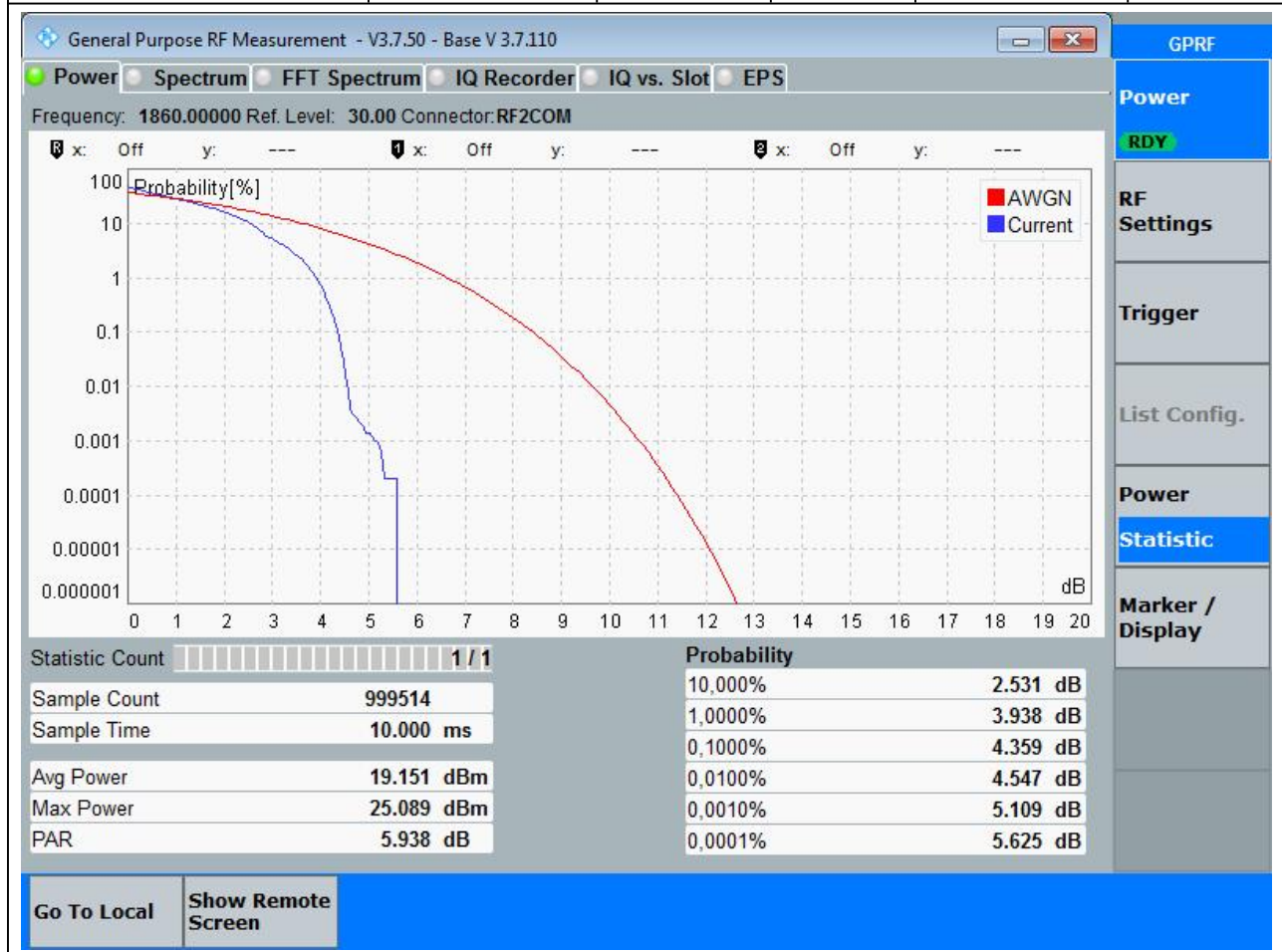
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
846.6	0.1	5	2.91	13	Pass



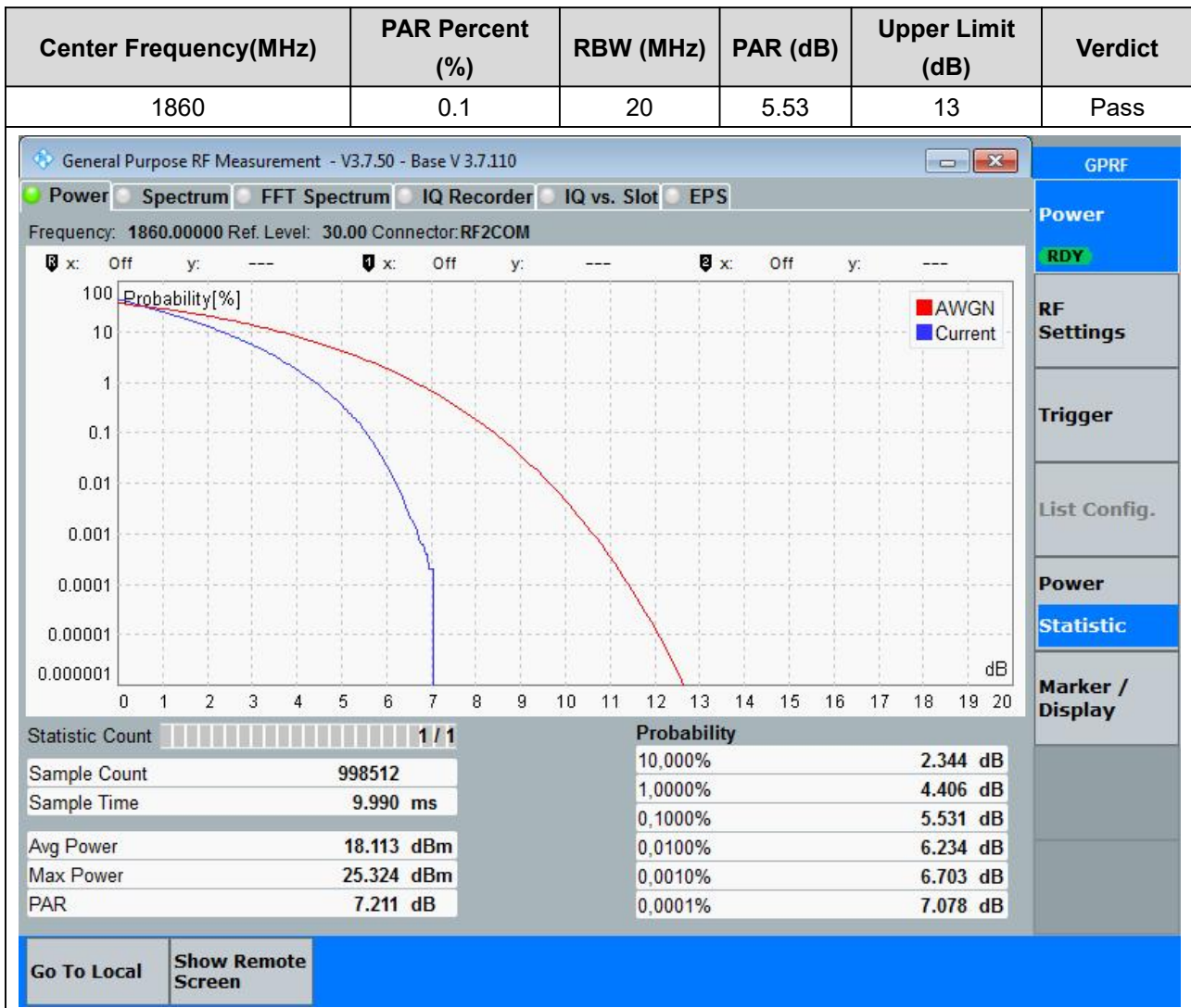
1. LTE_Band2

1.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)

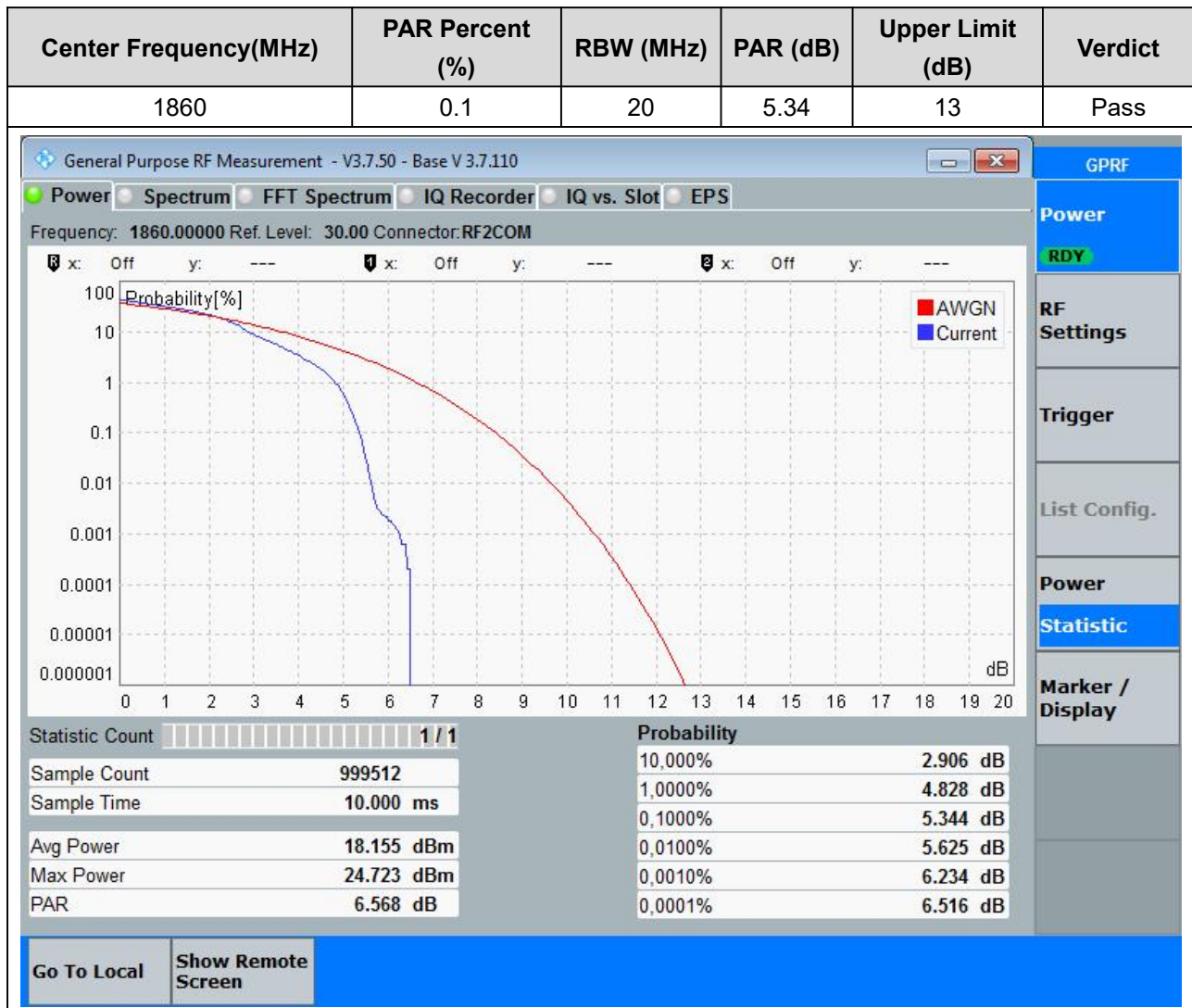
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	4.36	13	Pass



1.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)

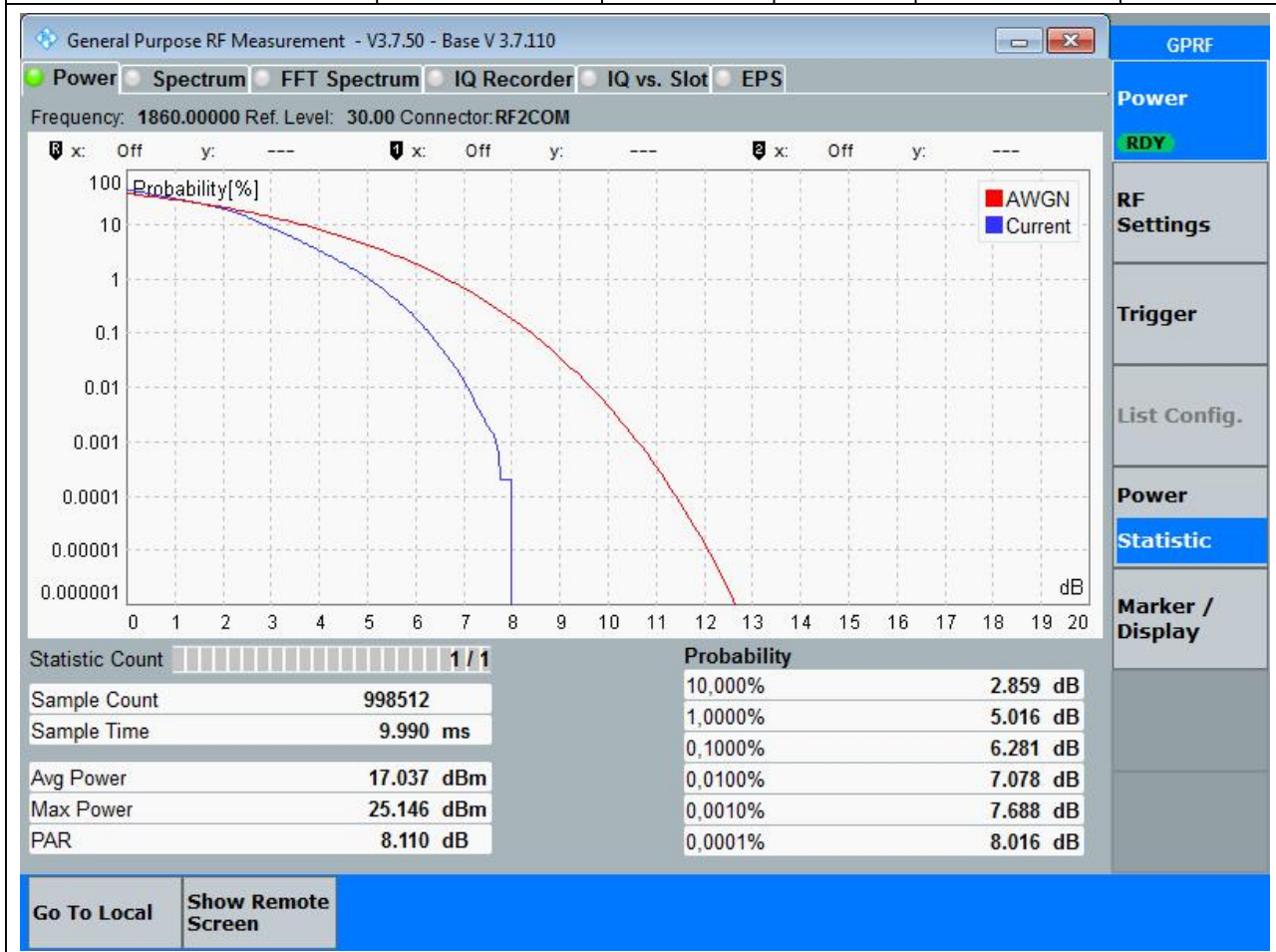


1.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18700, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)

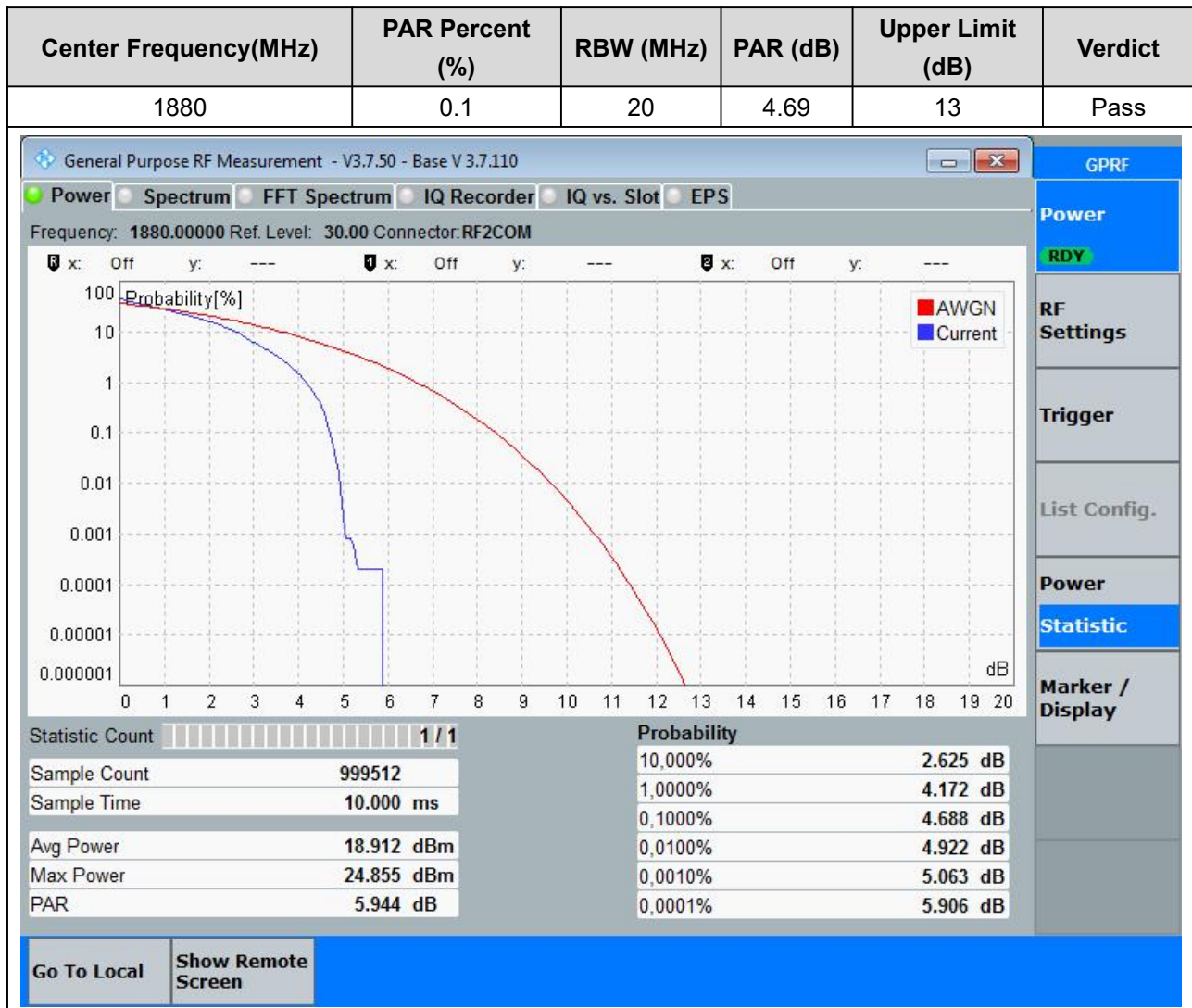


1.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18700, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)

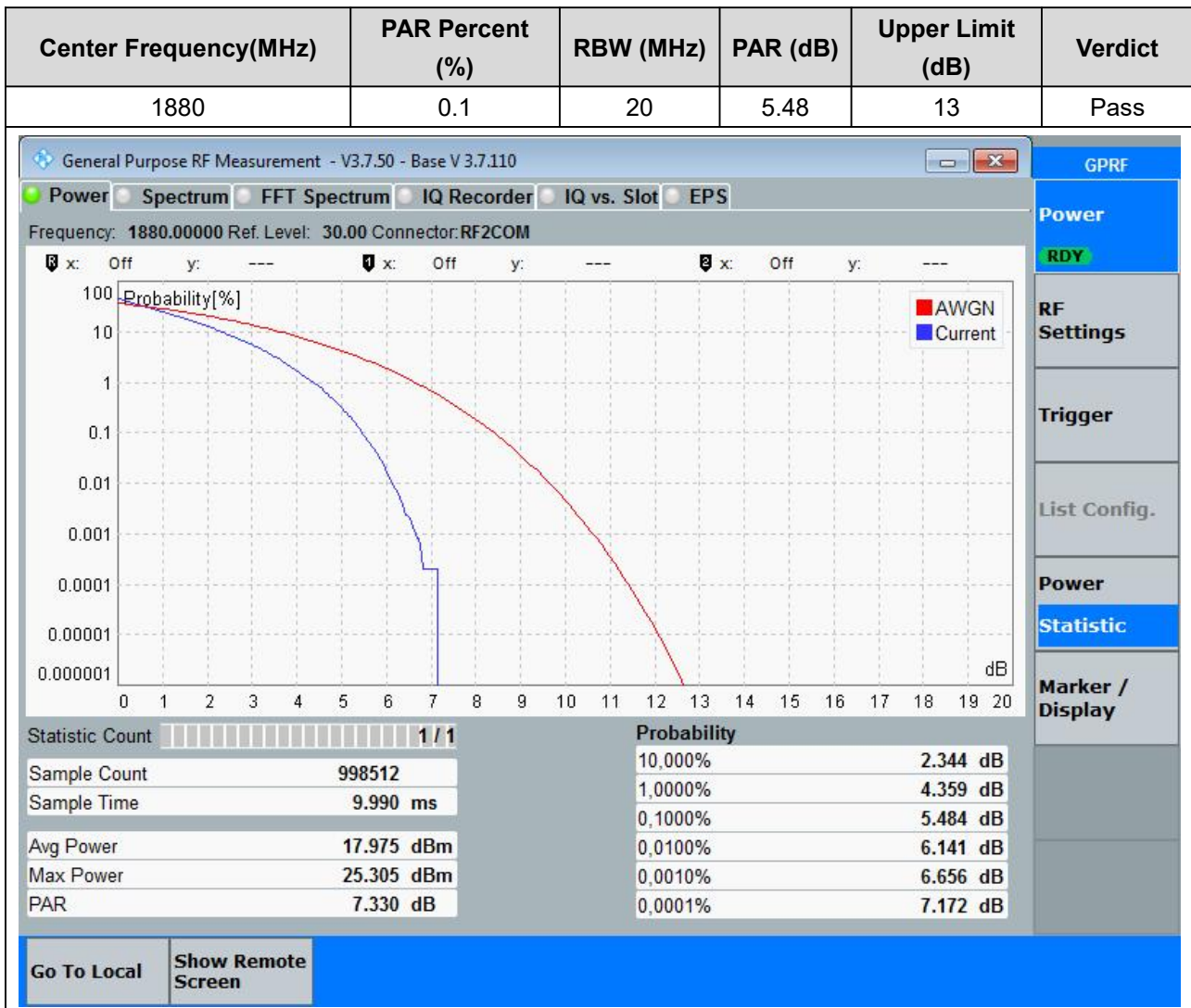
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1860	0.1	20	6.28	13	Pass



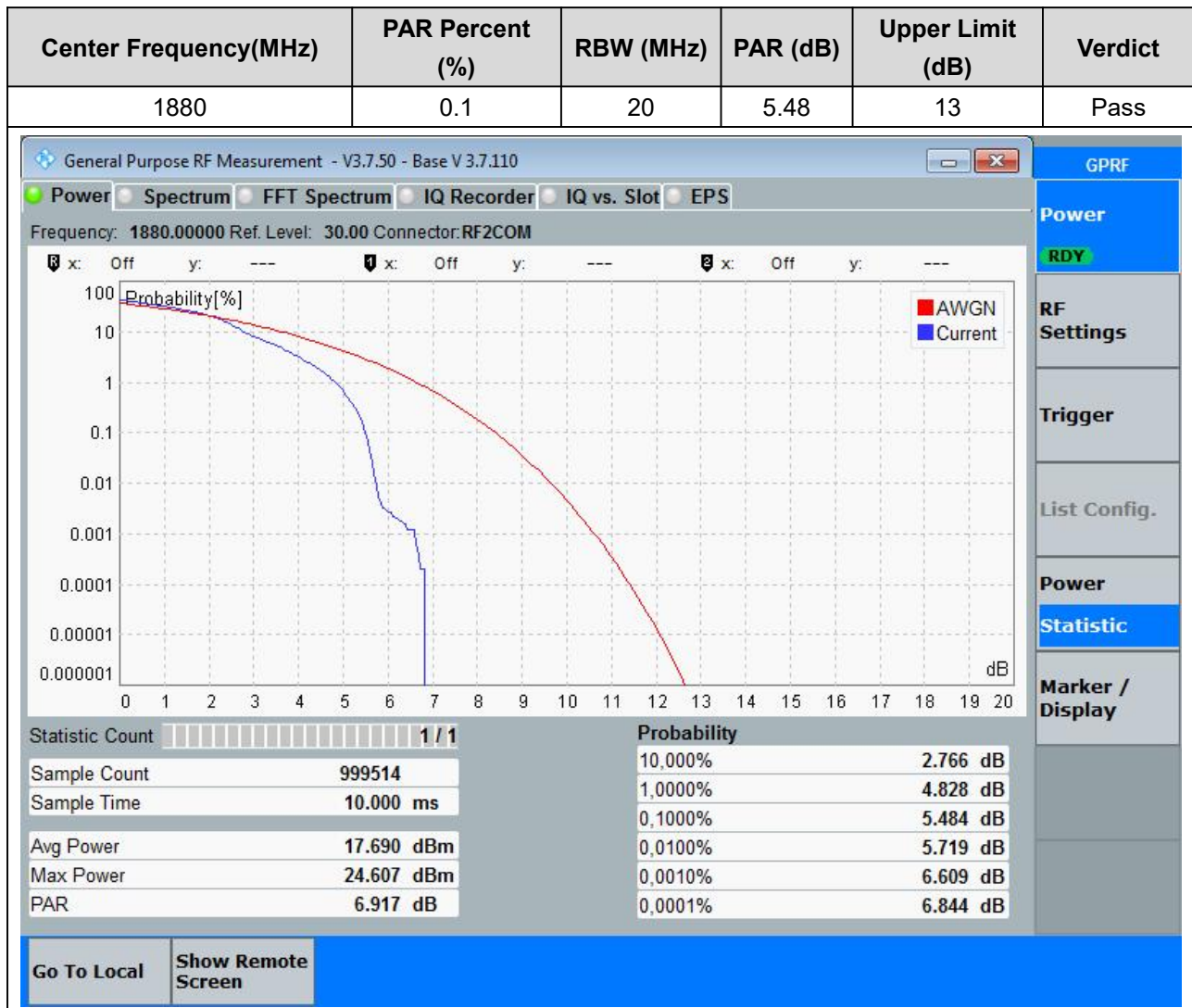
1.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)



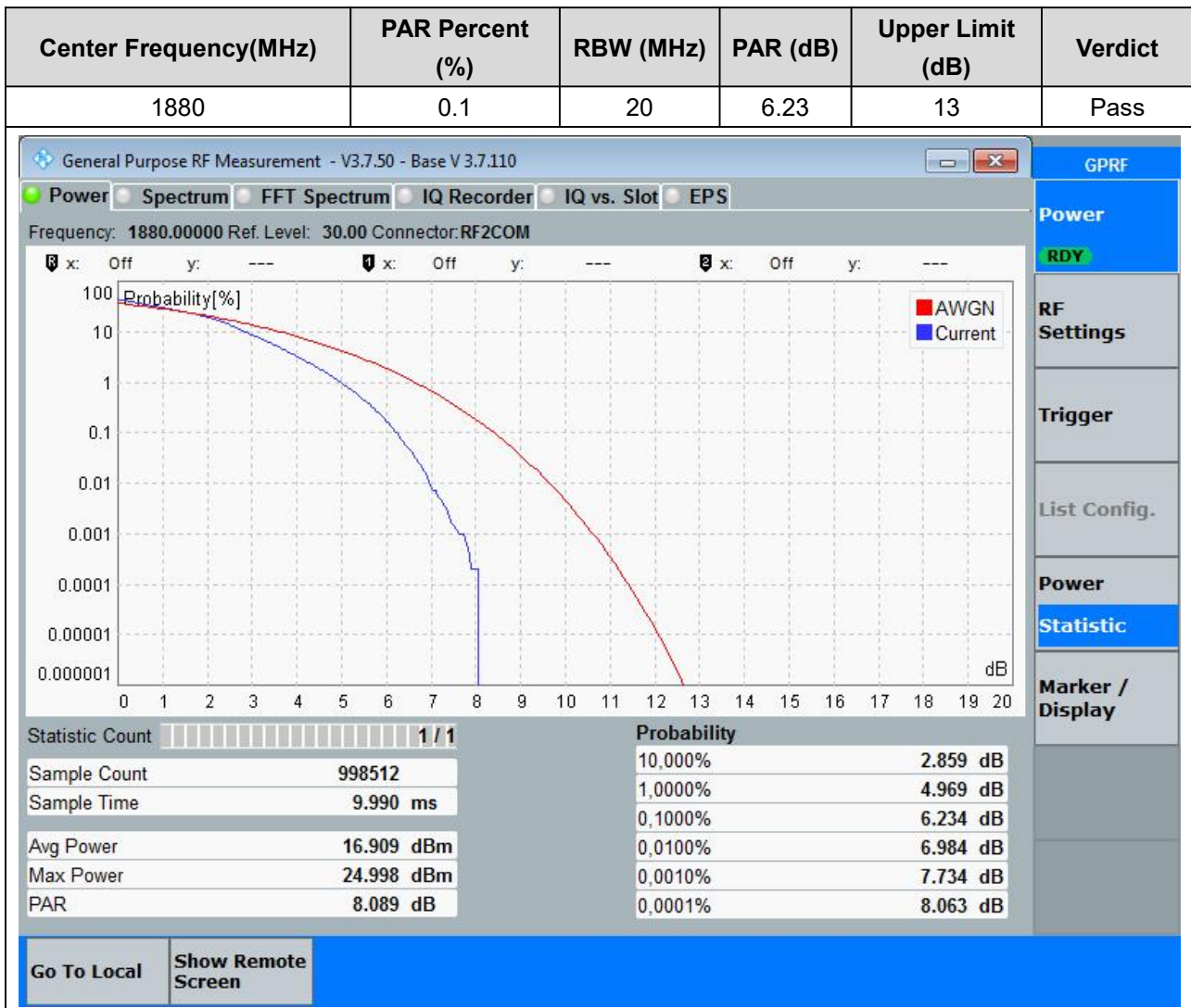
1.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)



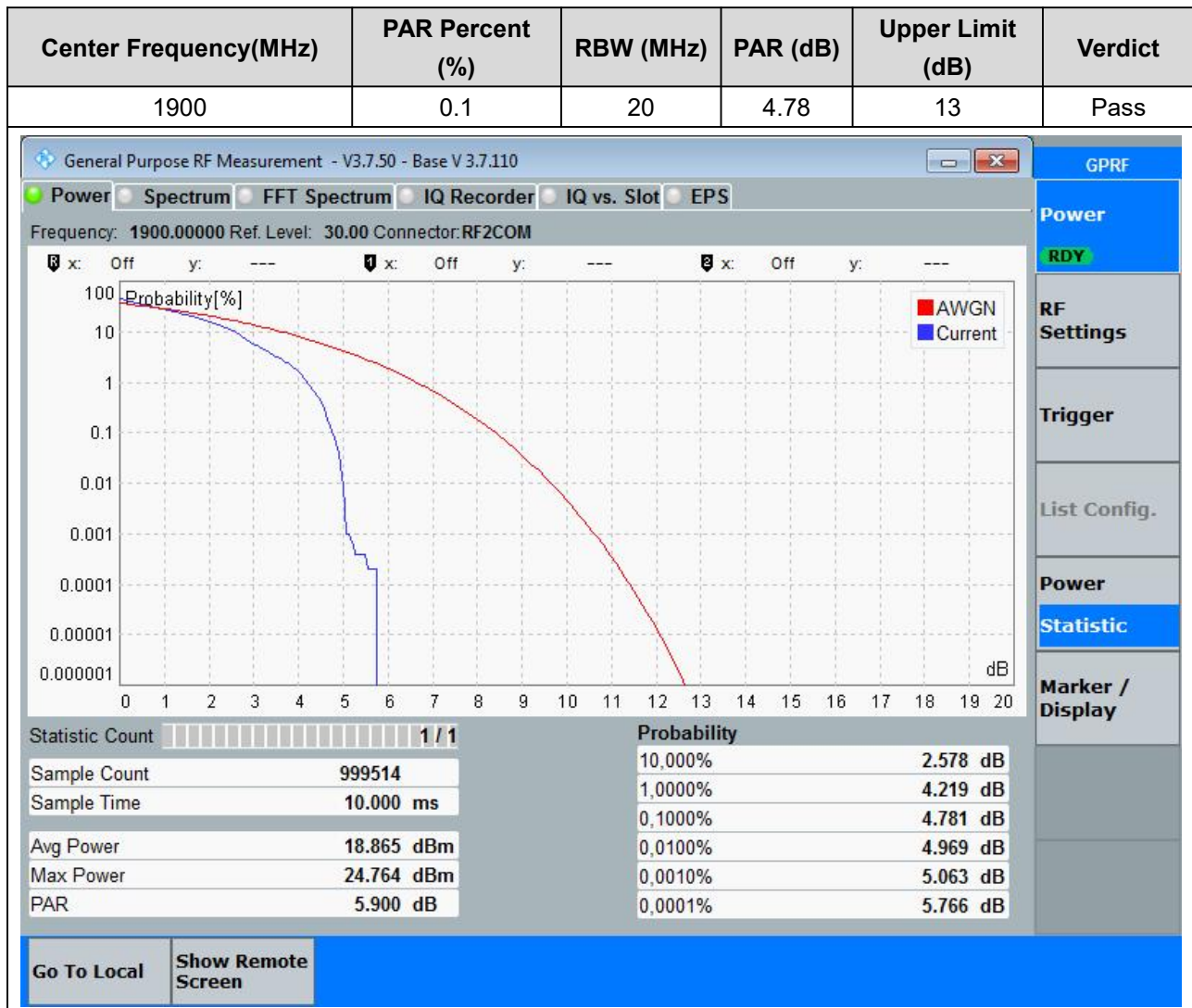
1.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18900, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)



1.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:18900, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)

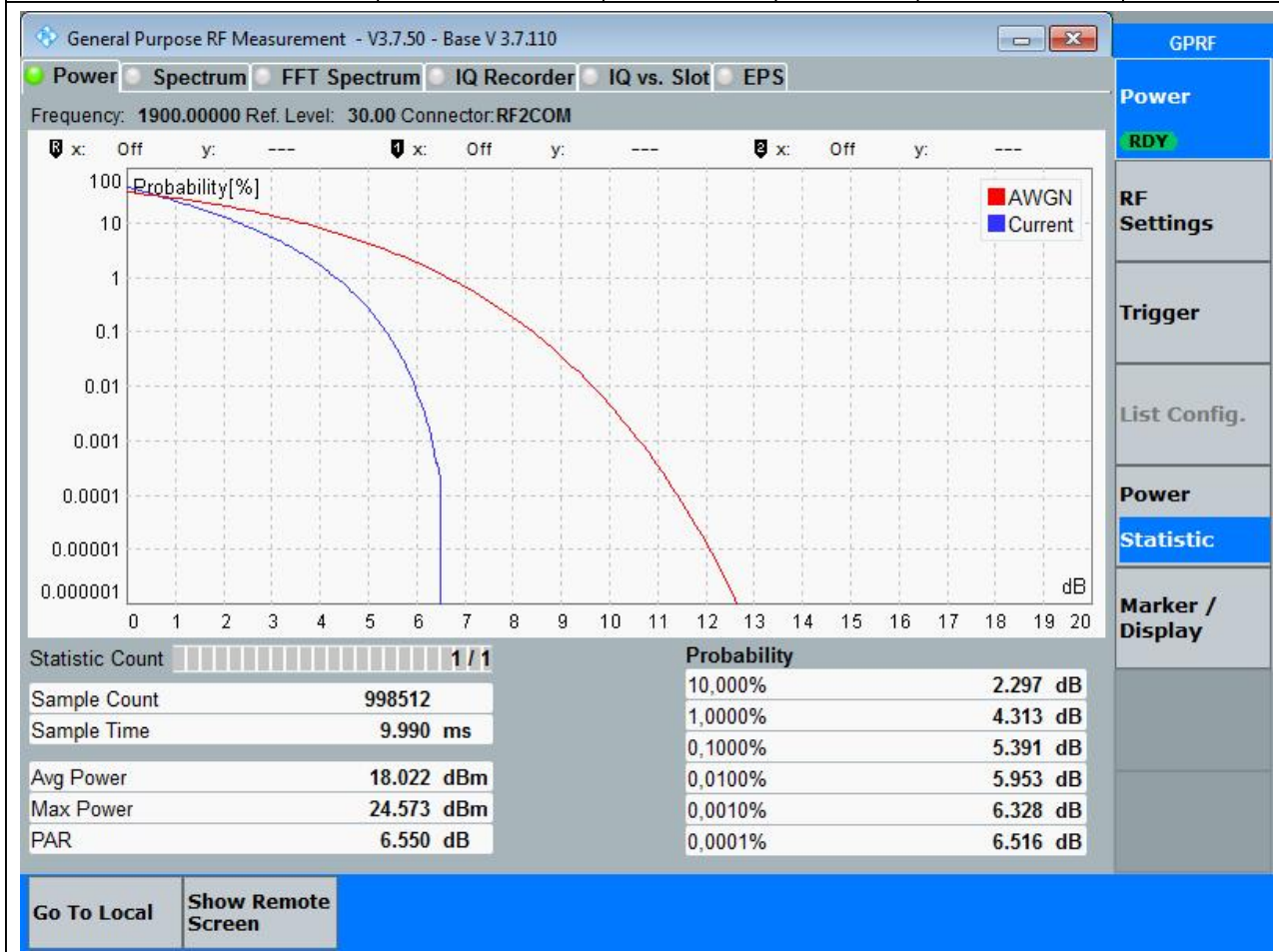


1.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)



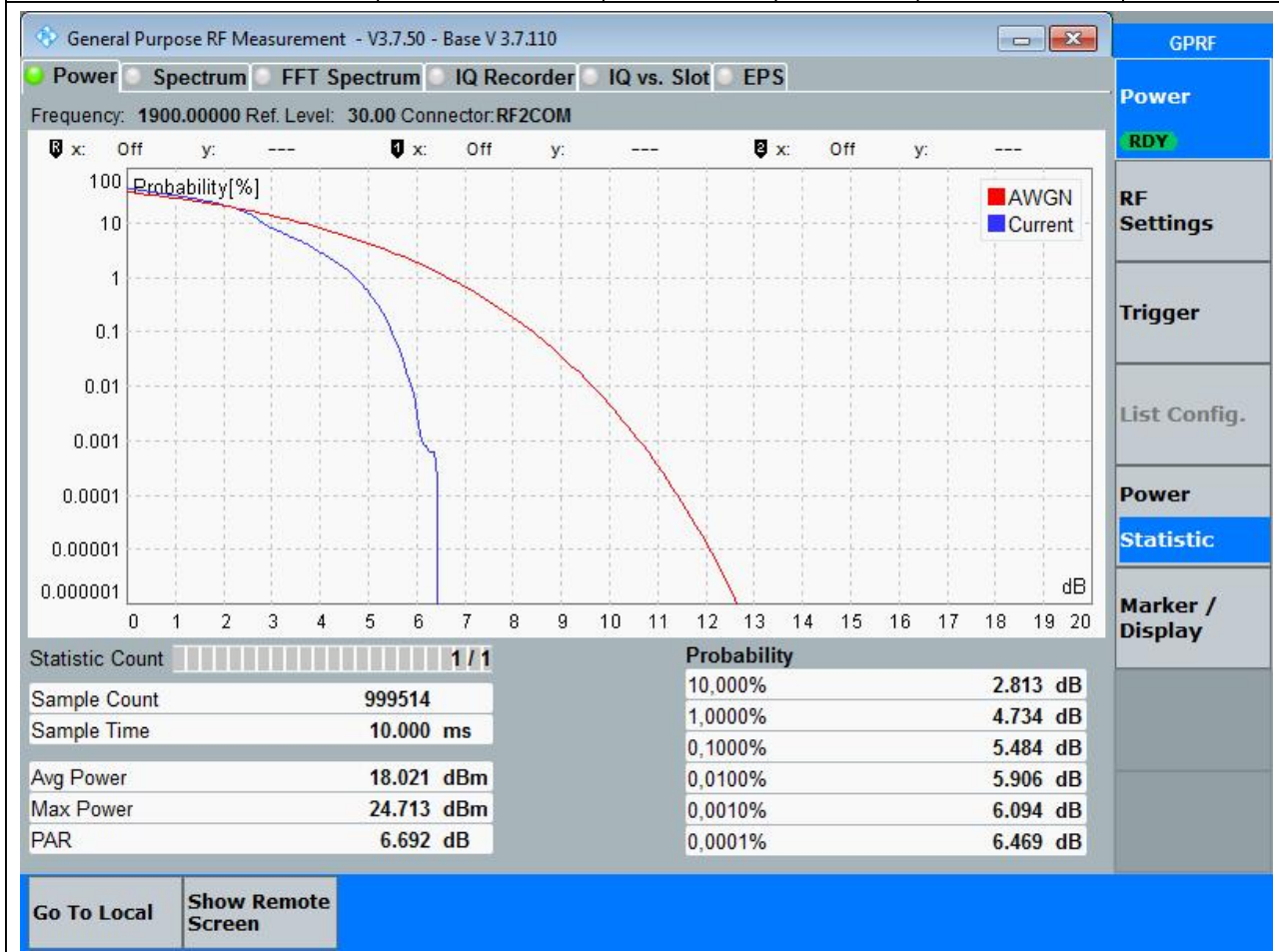
1.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	5.39	13	Pass



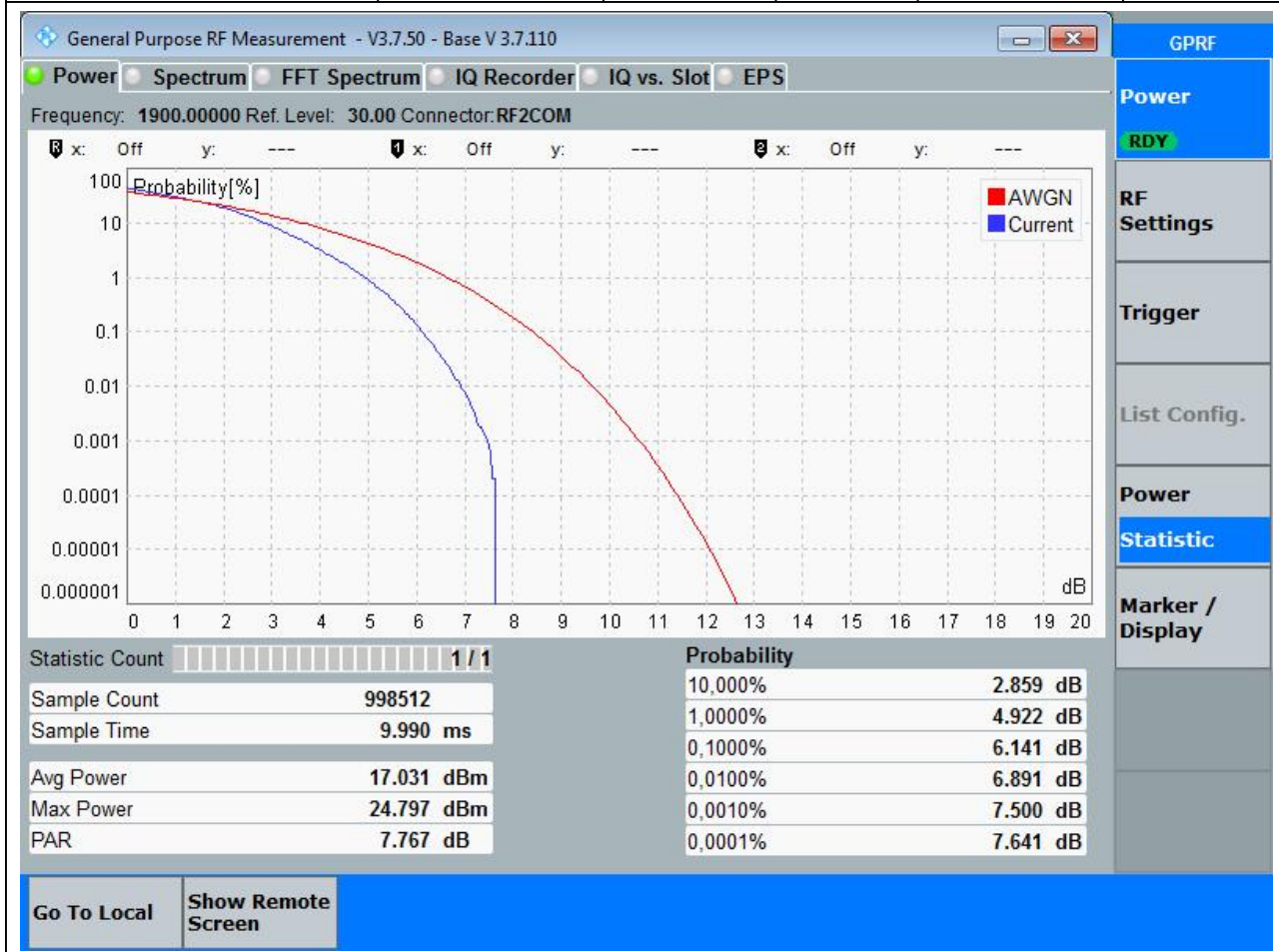
1.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:19100, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)

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



1.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:19100, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)

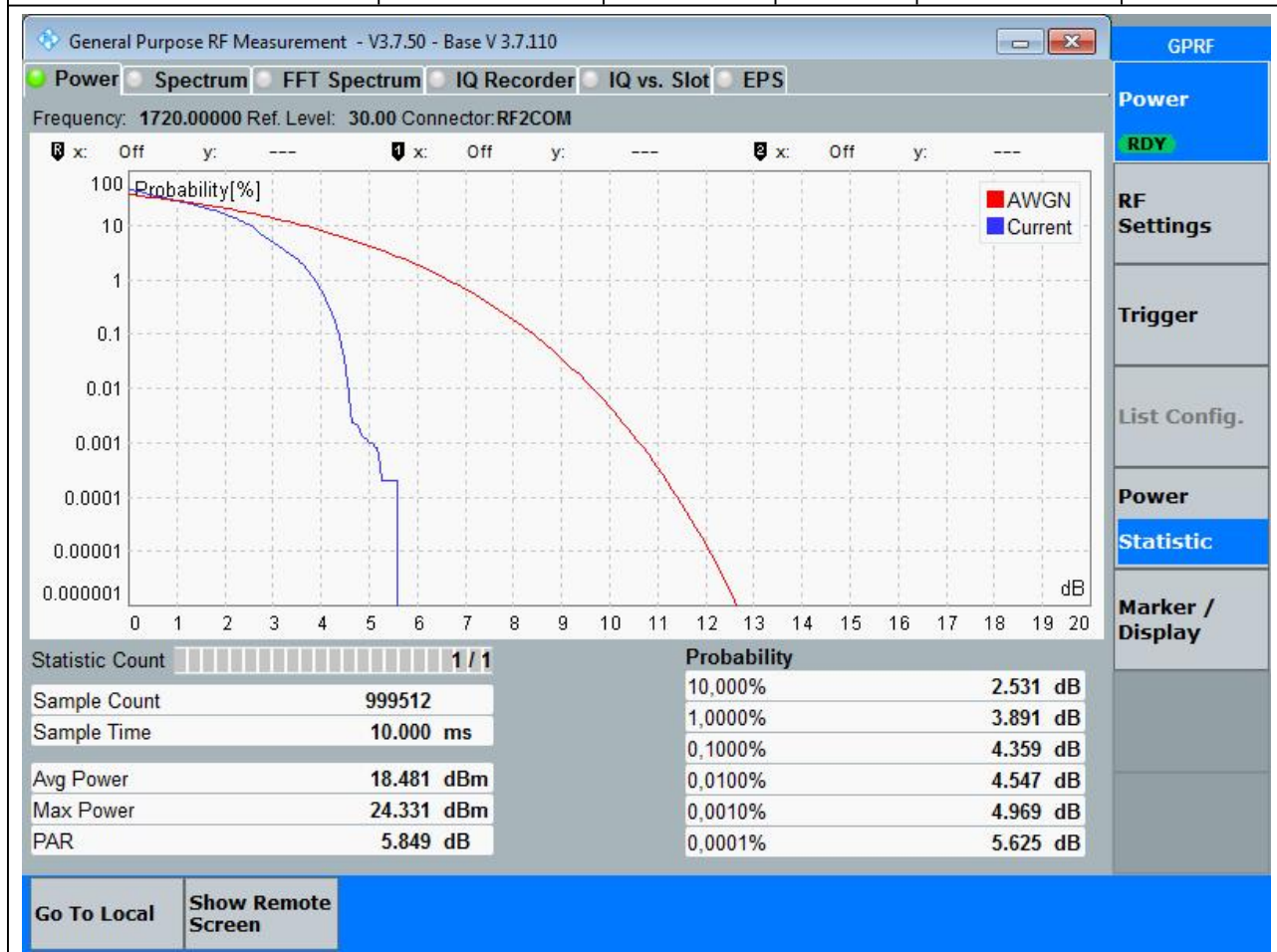
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1900	0.1	20	6.14	13	Pass



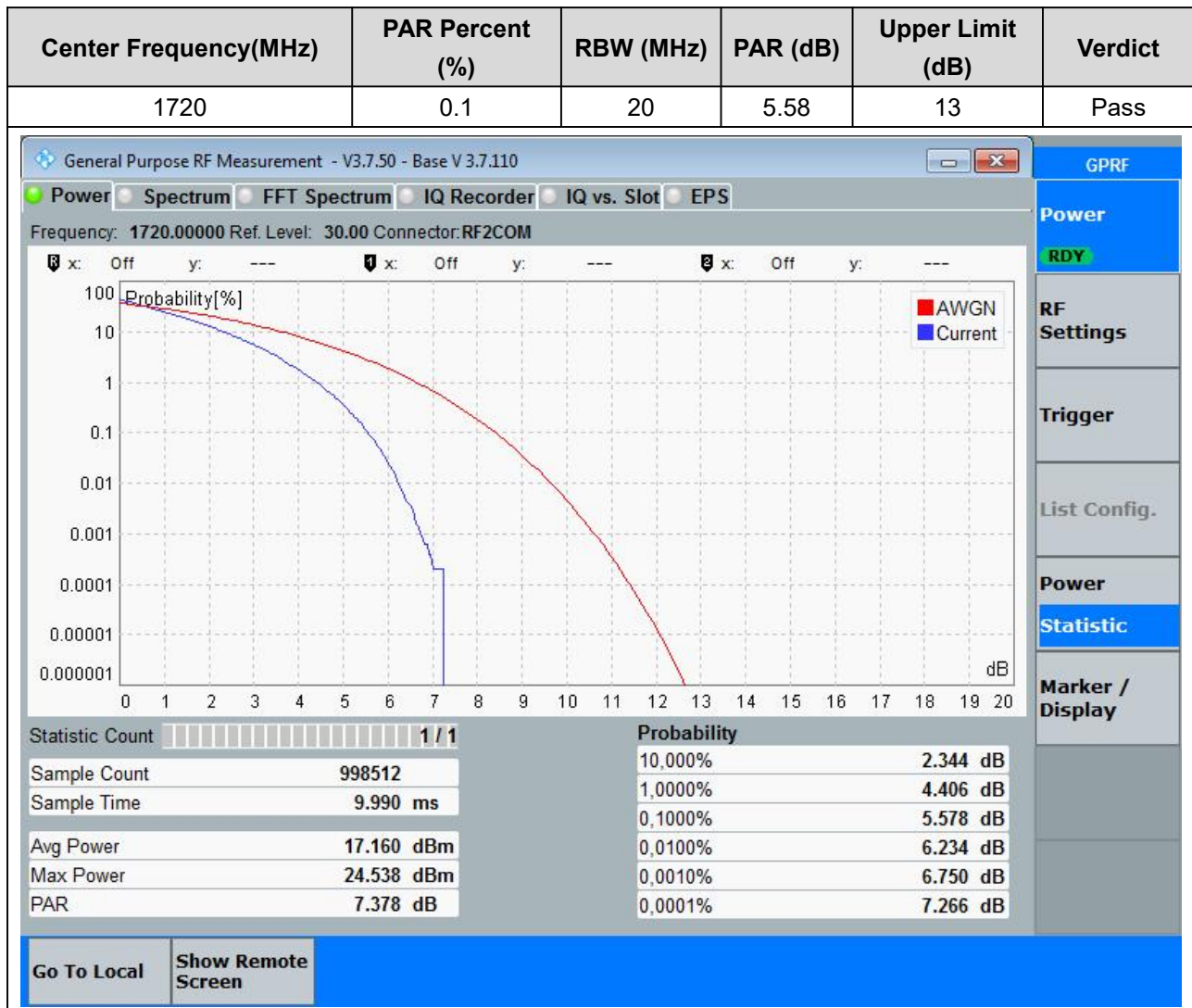
2. LTE_Band4

2.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)

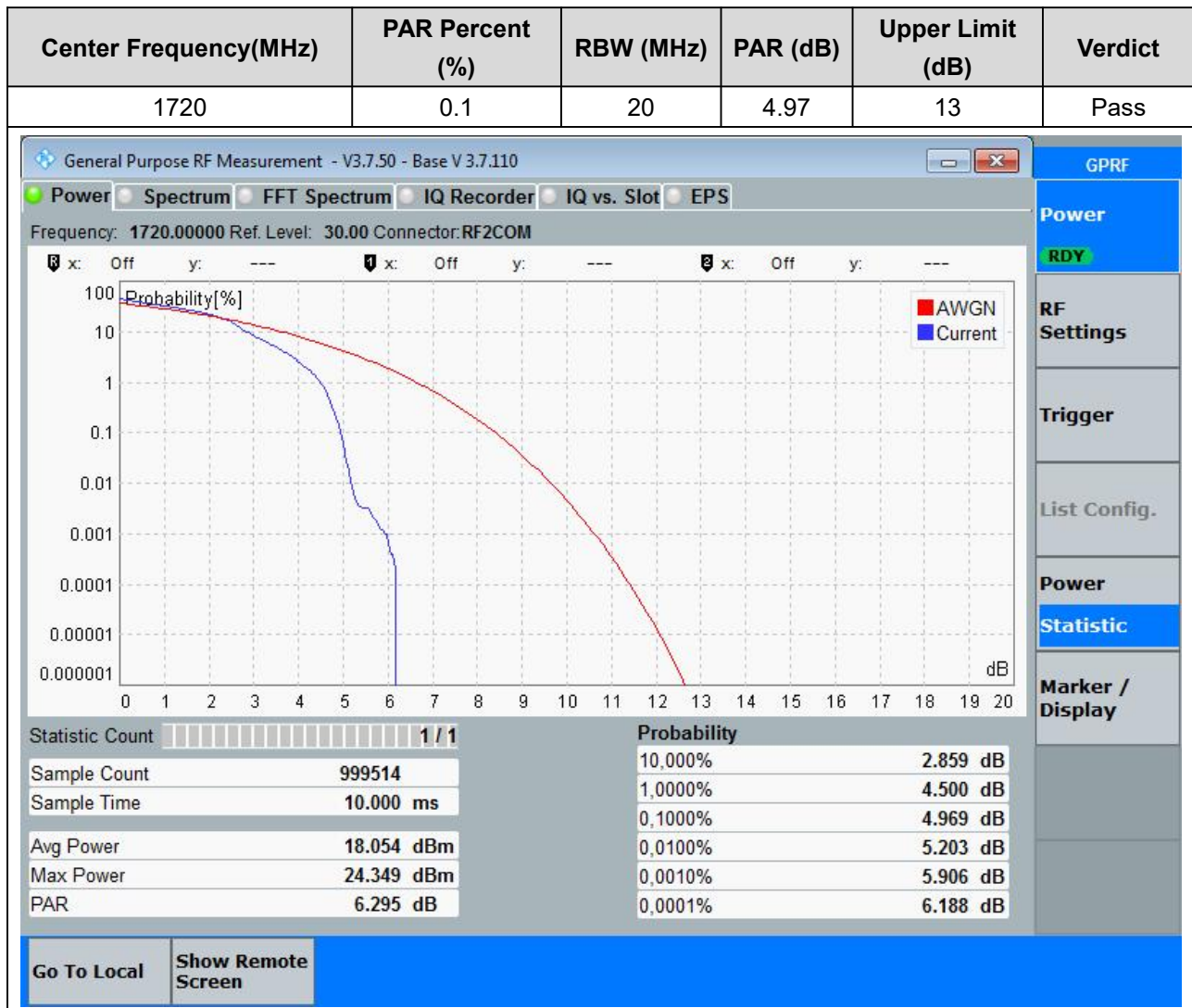
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	20	4.36	13	Pass



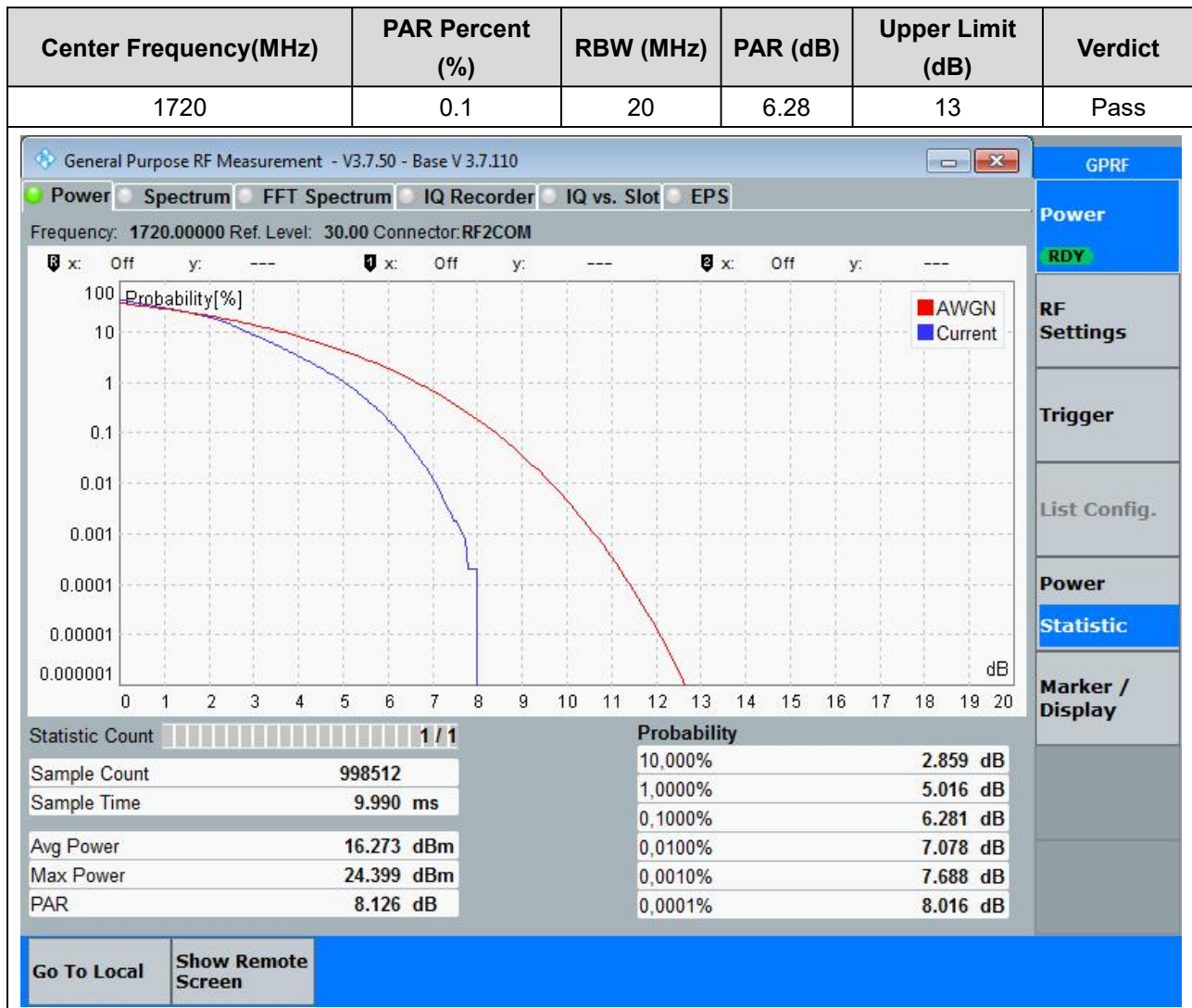
2.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)



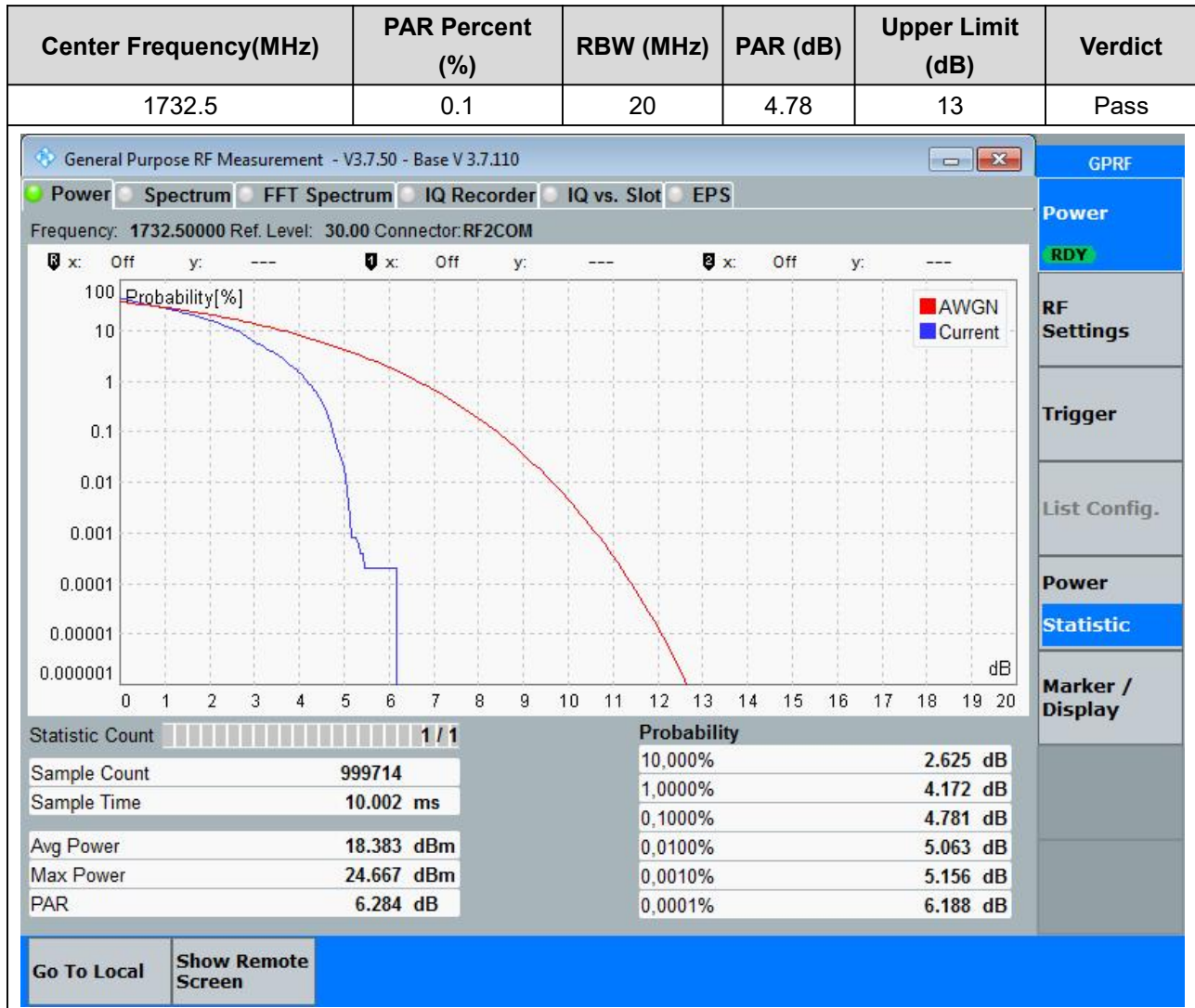
2.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20050, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)



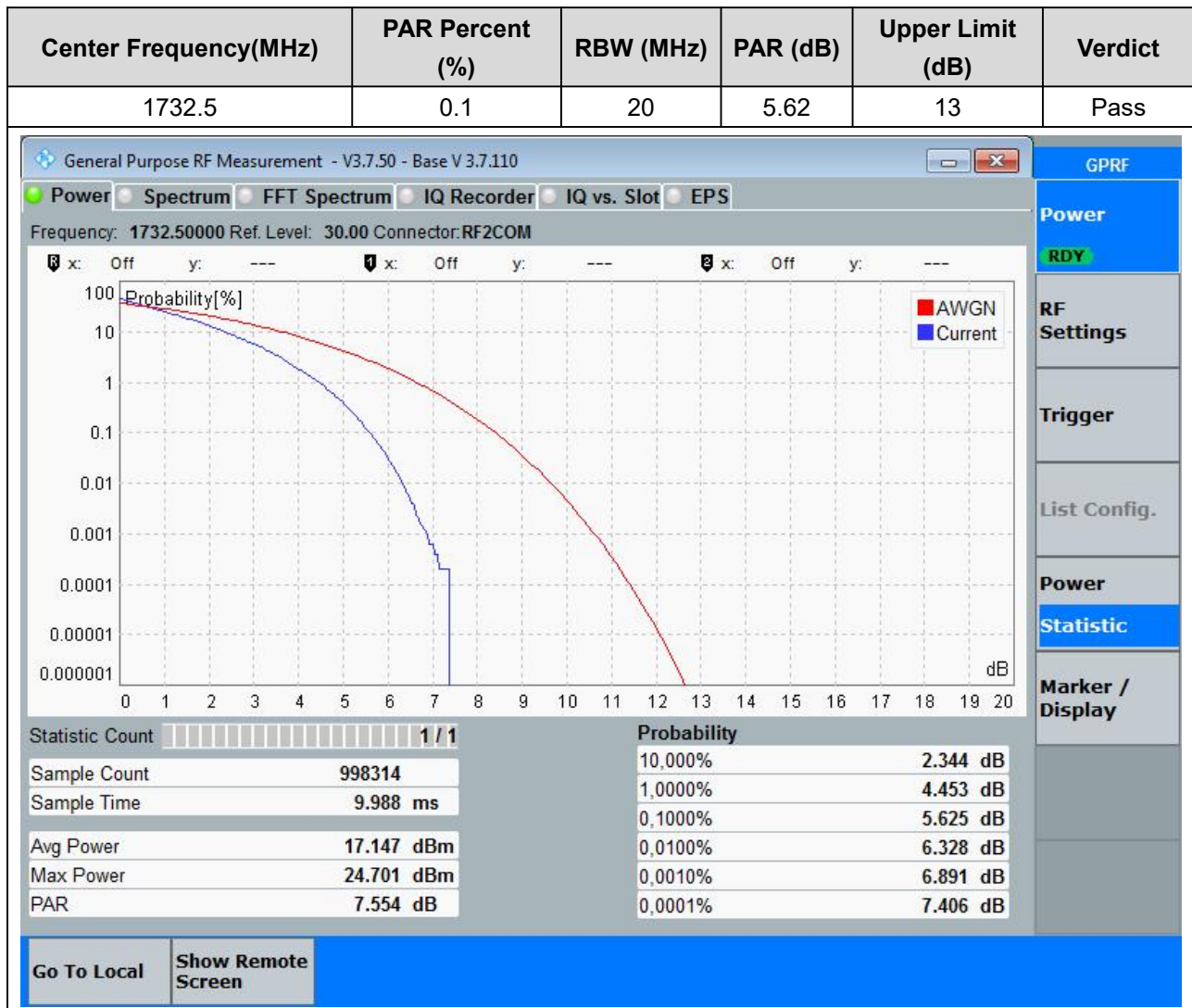
2.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20050, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)



2.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)

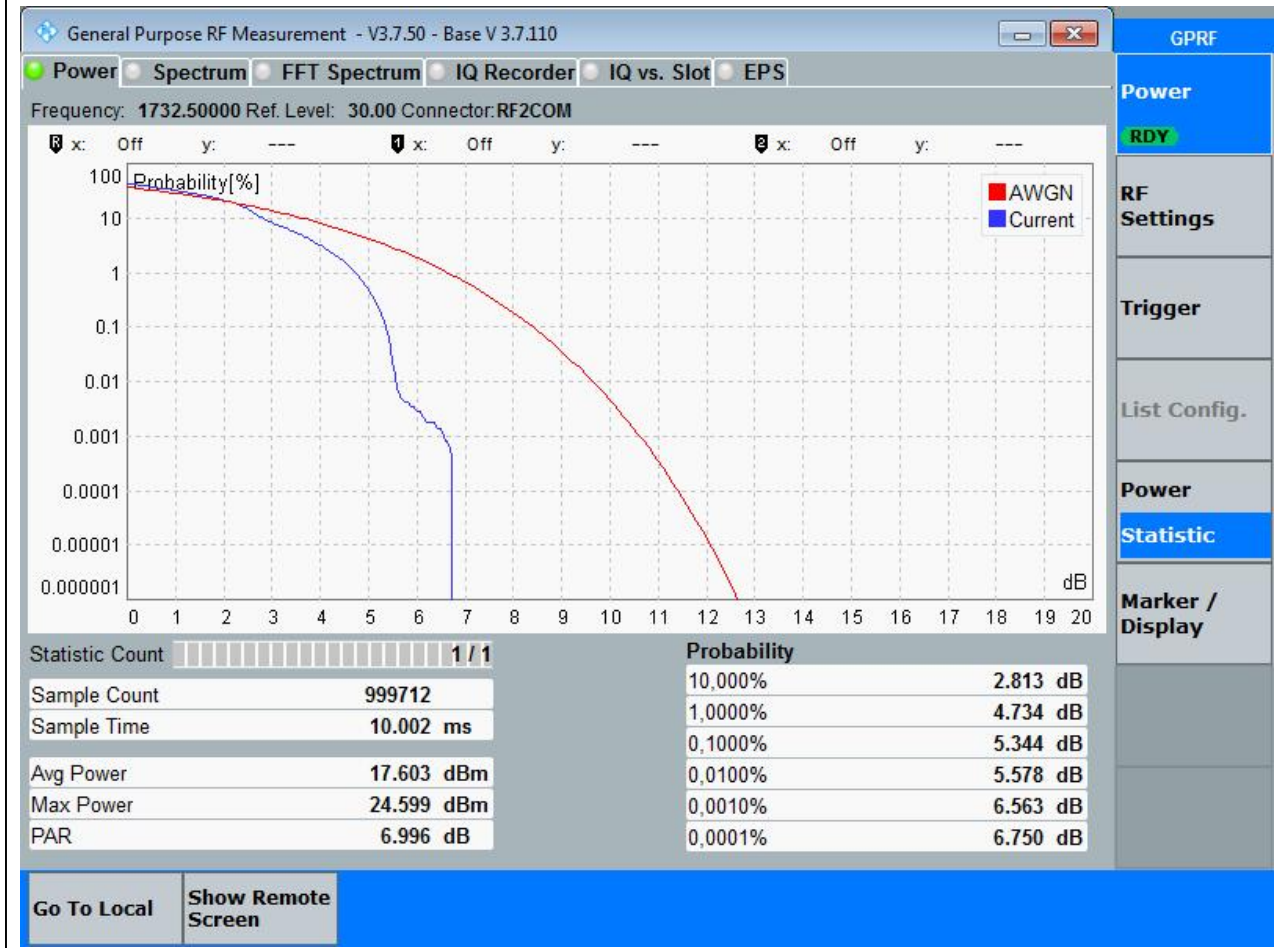


2.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)

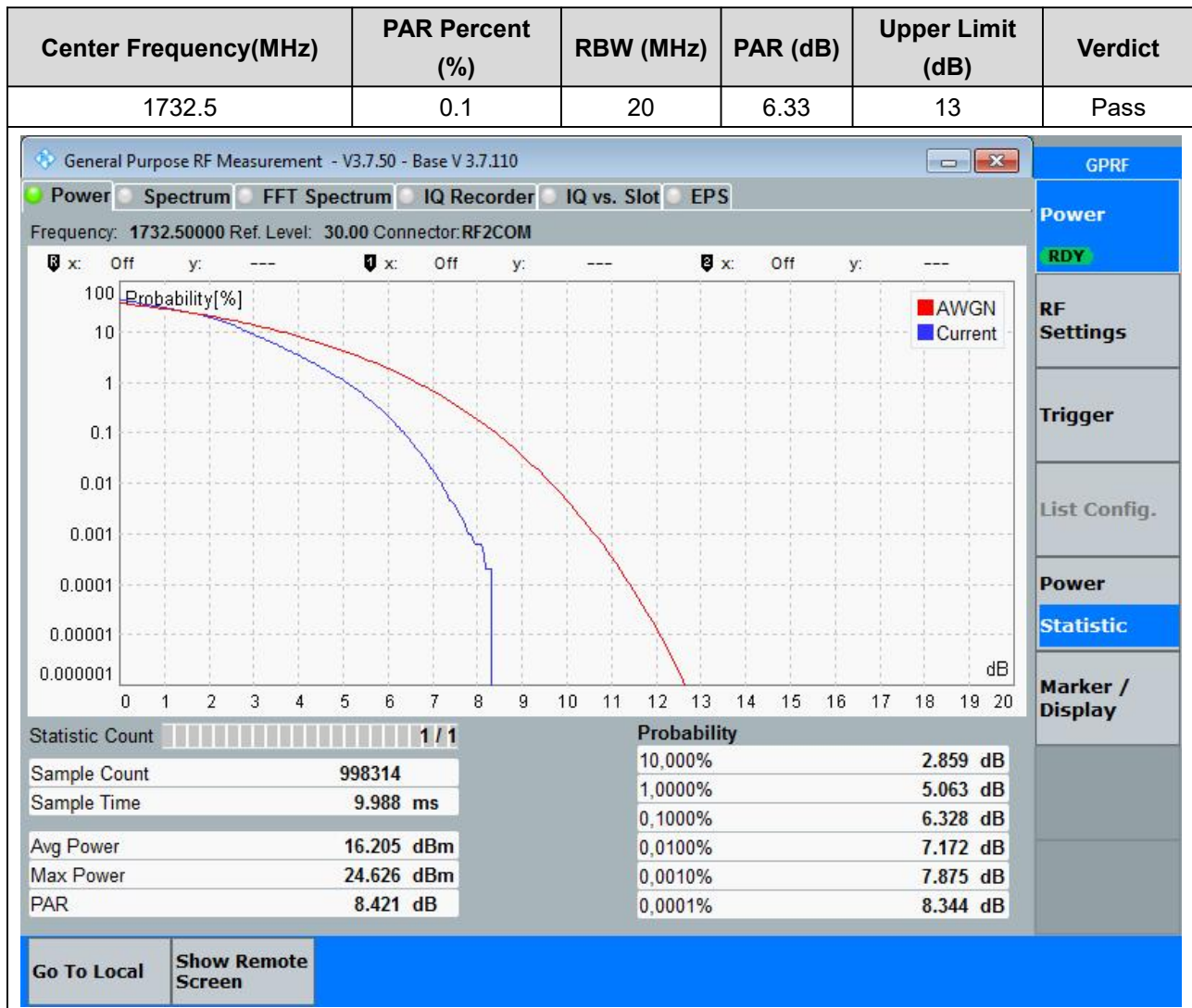


2.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20175, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)

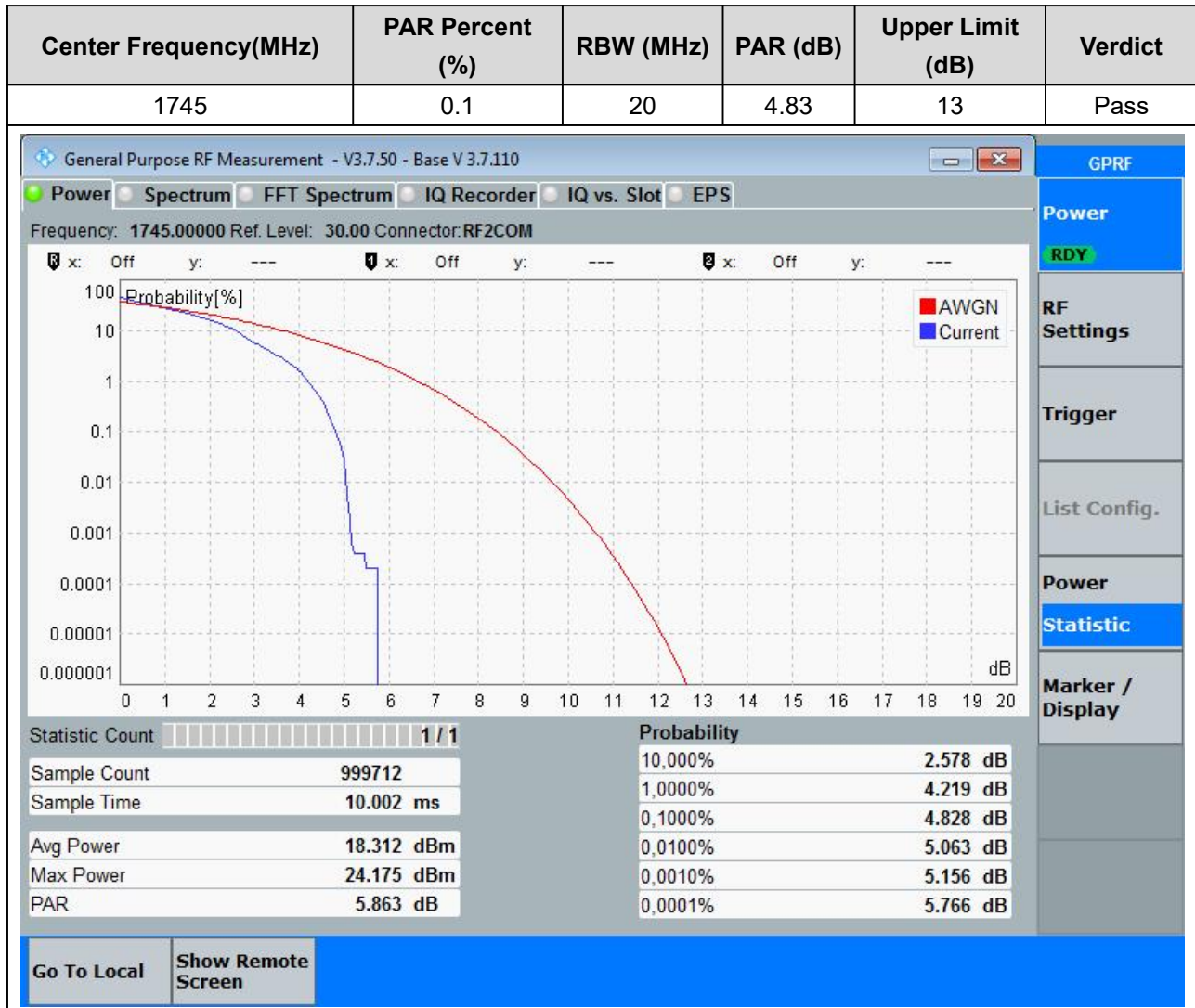
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	20	5.34	13	Pass



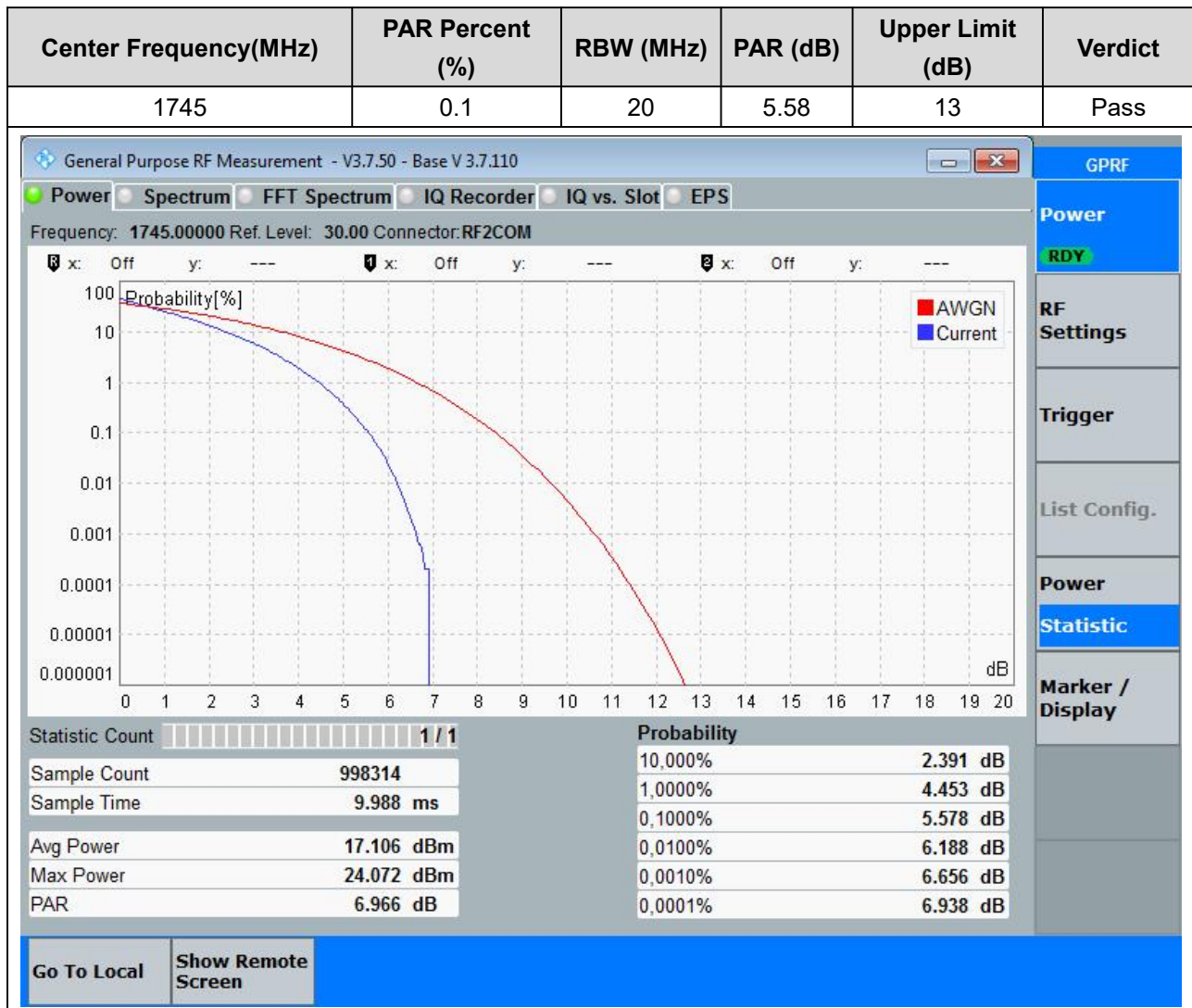
2.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20175, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)



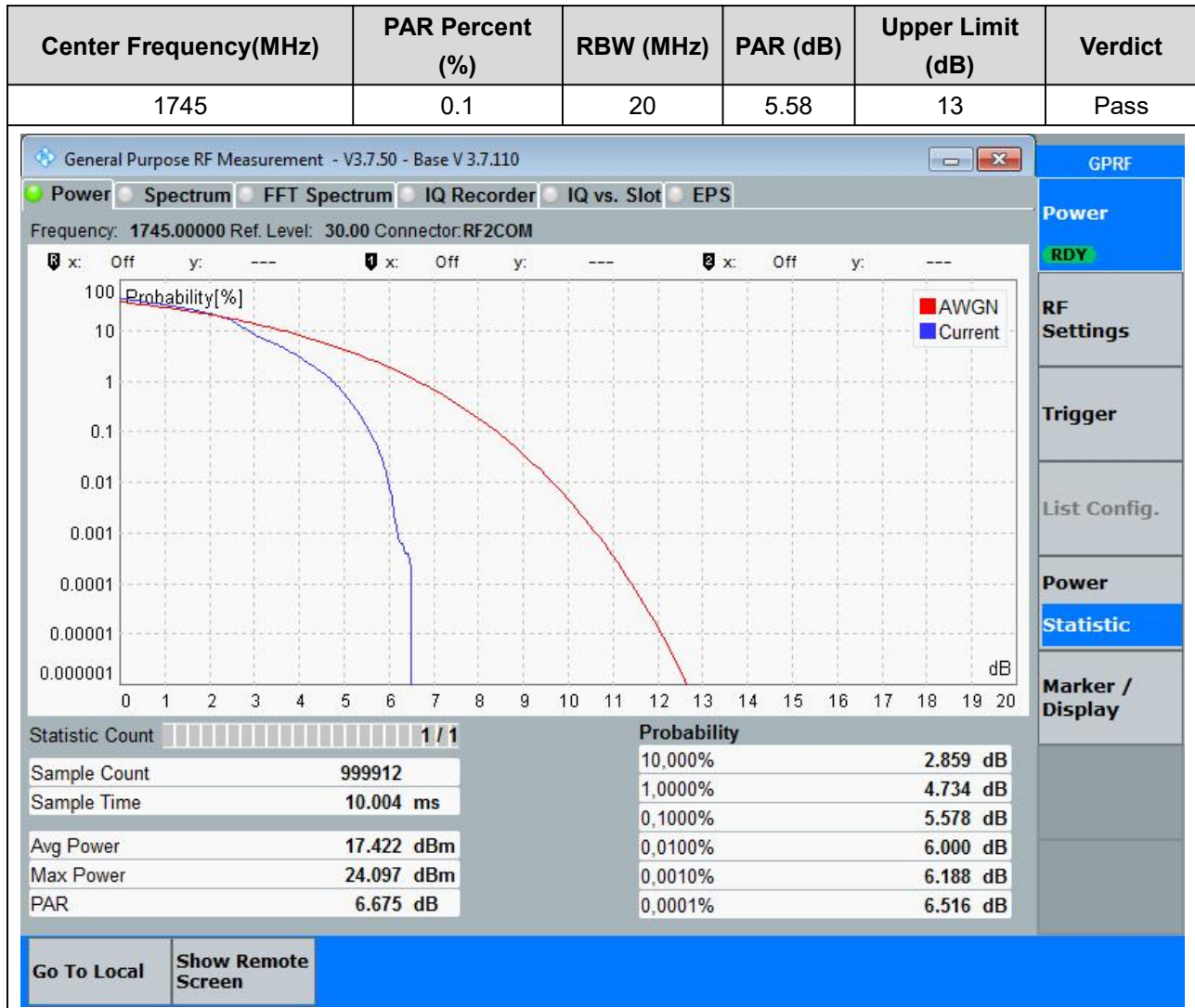
2.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number:1, RB Position:0)



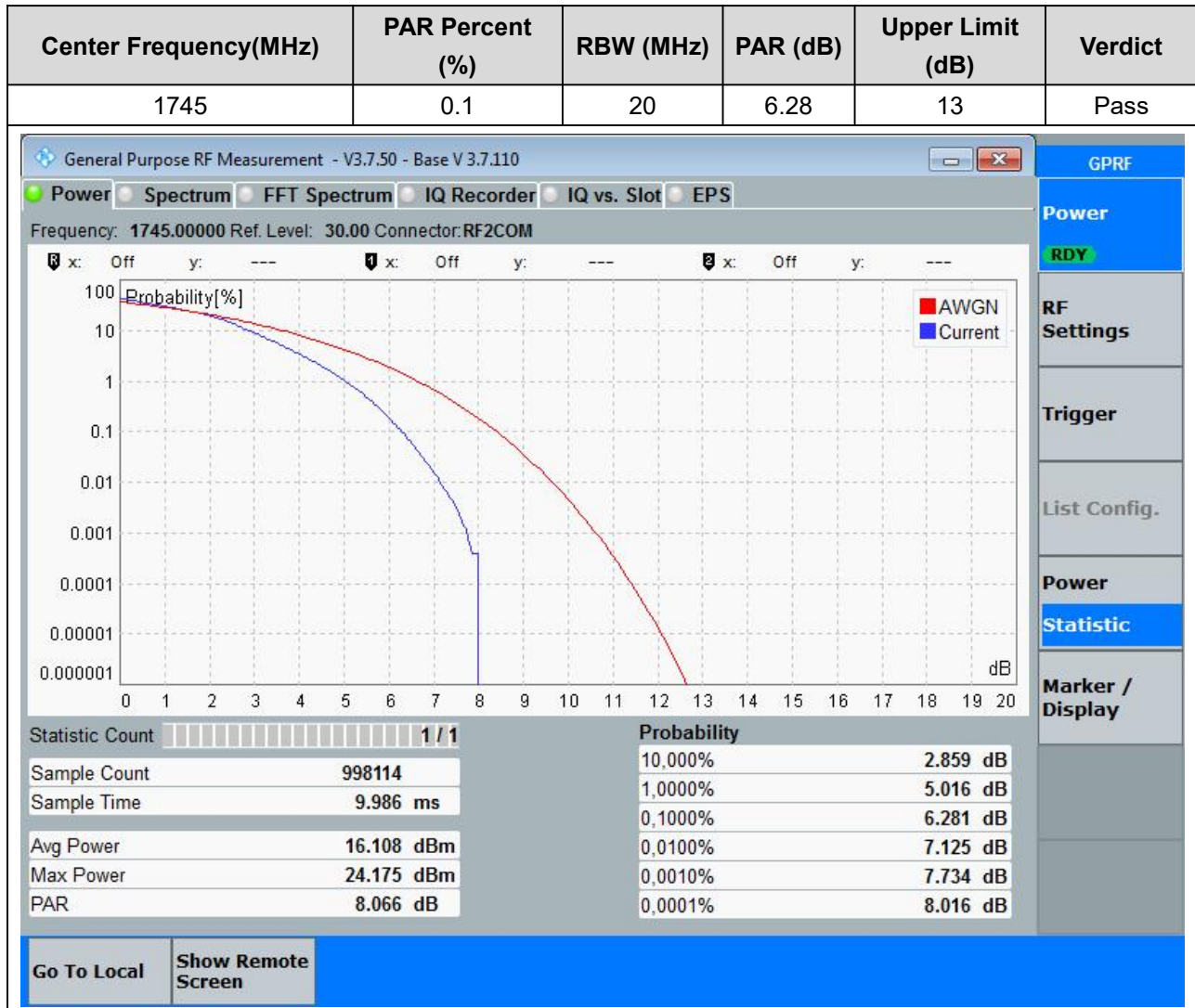
2.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number:100, RB Position:0)



2.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20300, Bandwidth:20, Modulation:16QAM, RB Number:1, RB Position:0)



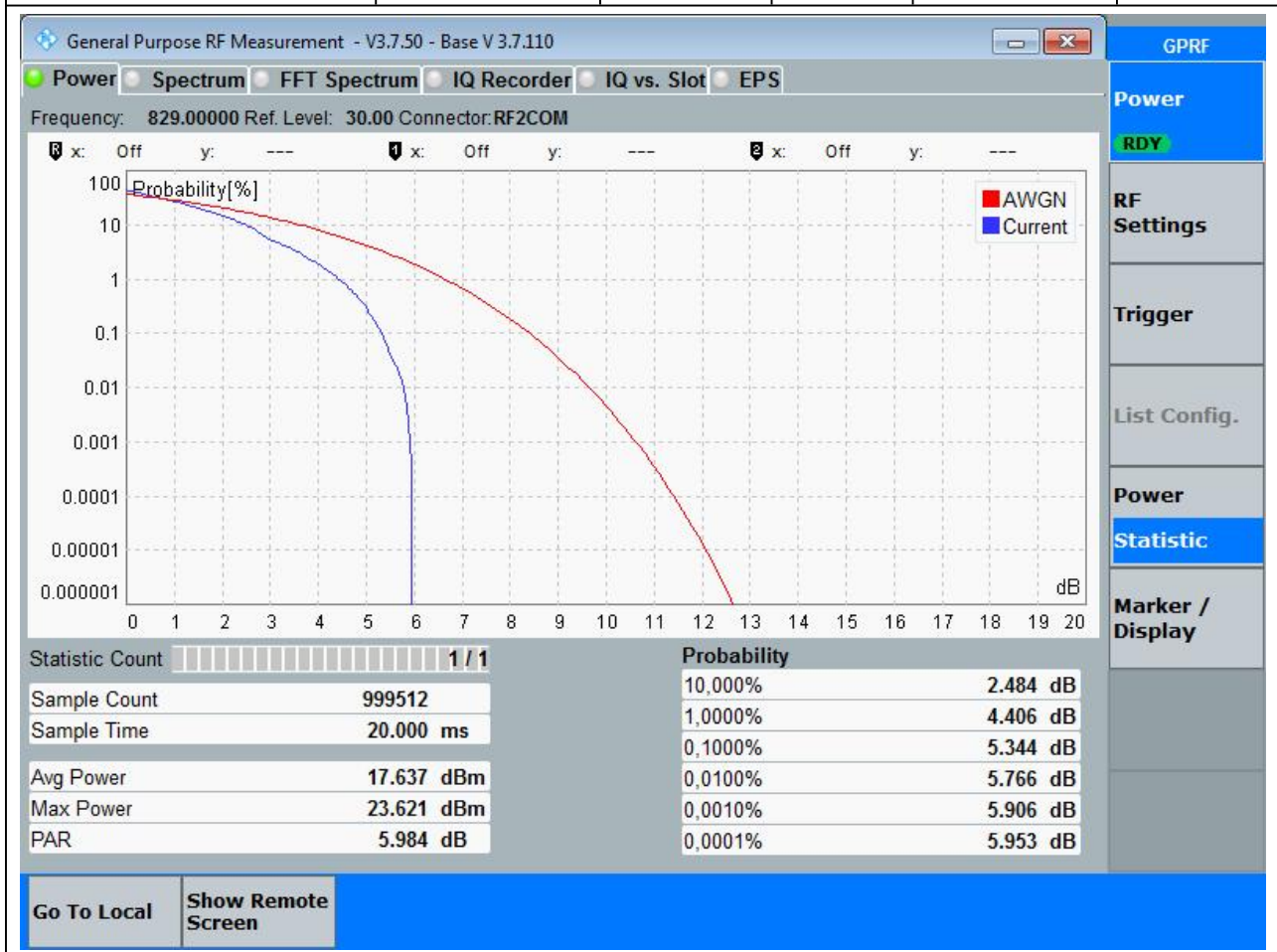
2.12 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20300, Bandwidth:20, Modulation:16QAM, RB Number:100, RB Position:0)



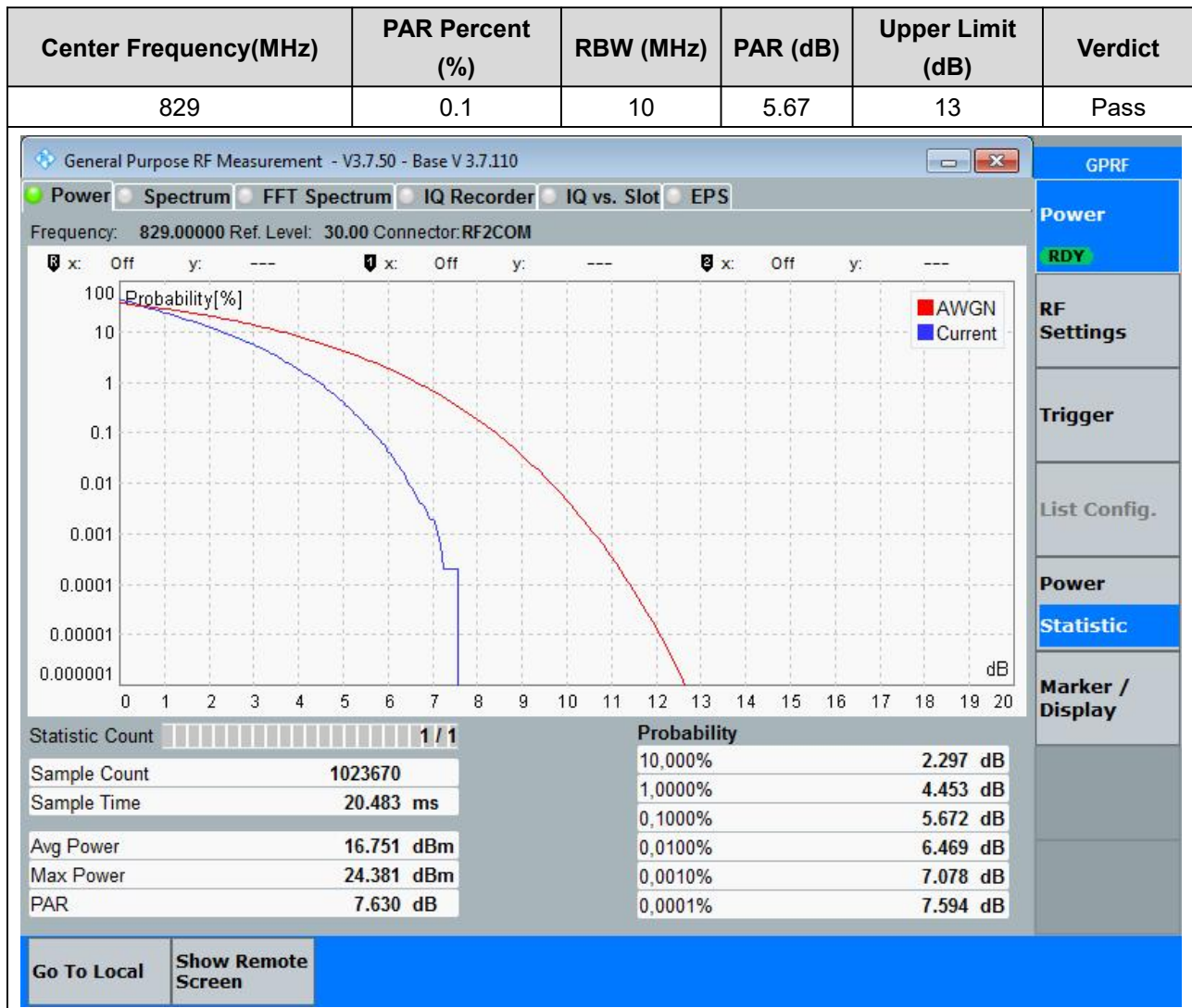
3. LTE_Band5

3.1 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number:1, RB Position:0)

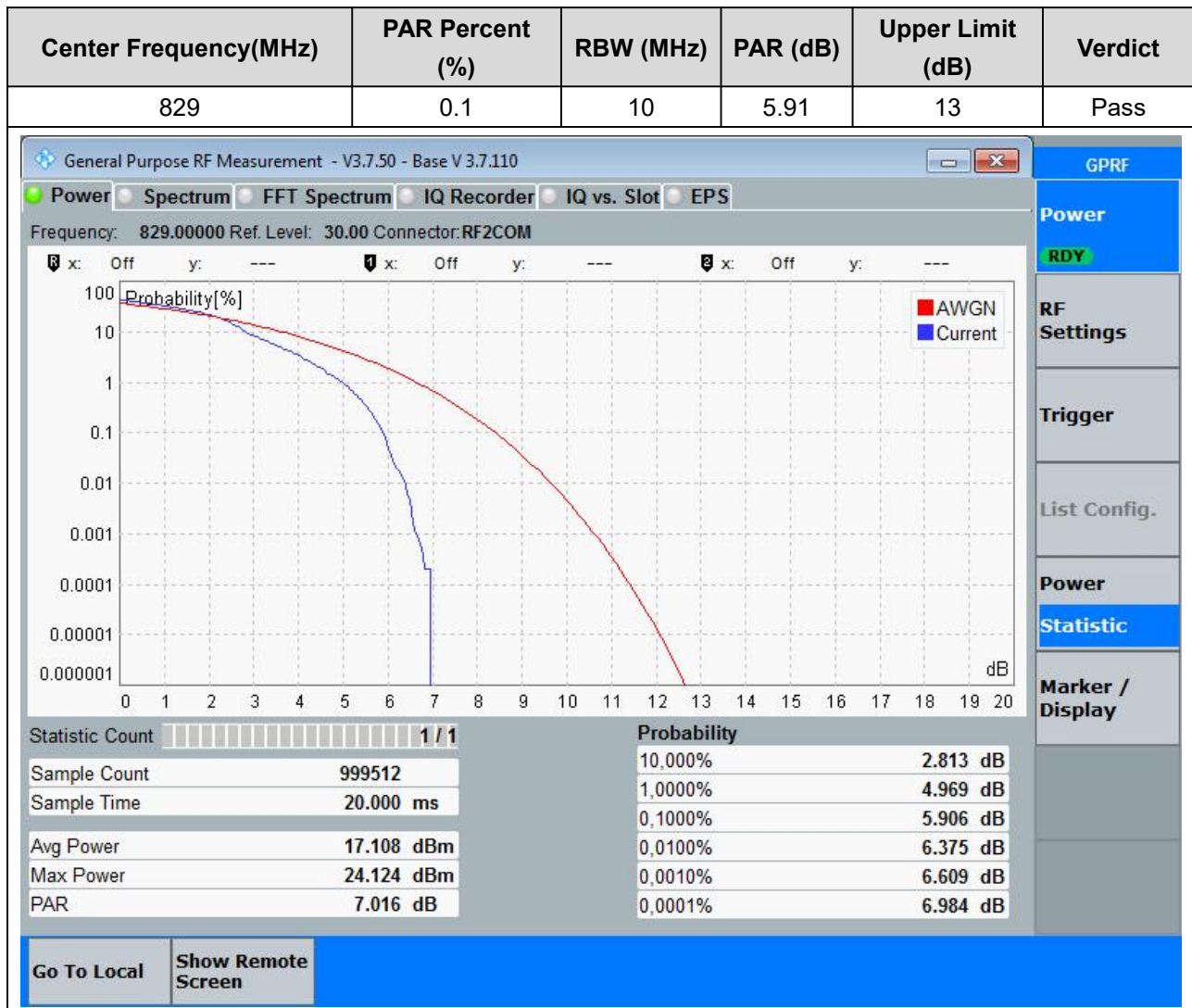
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
829	0.1	10	5.34	13	Pass



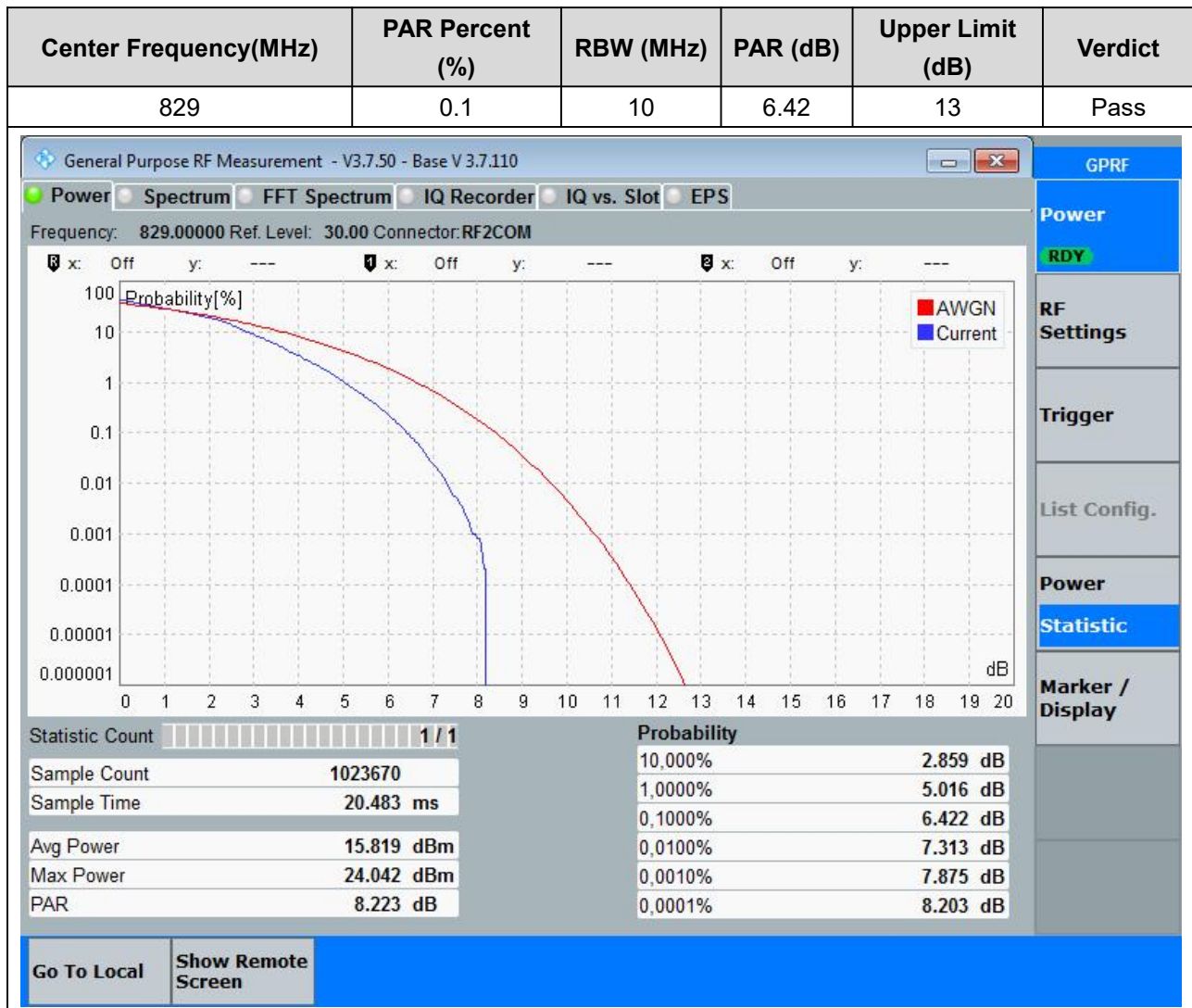
3.2 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number:50, RB Position:0)



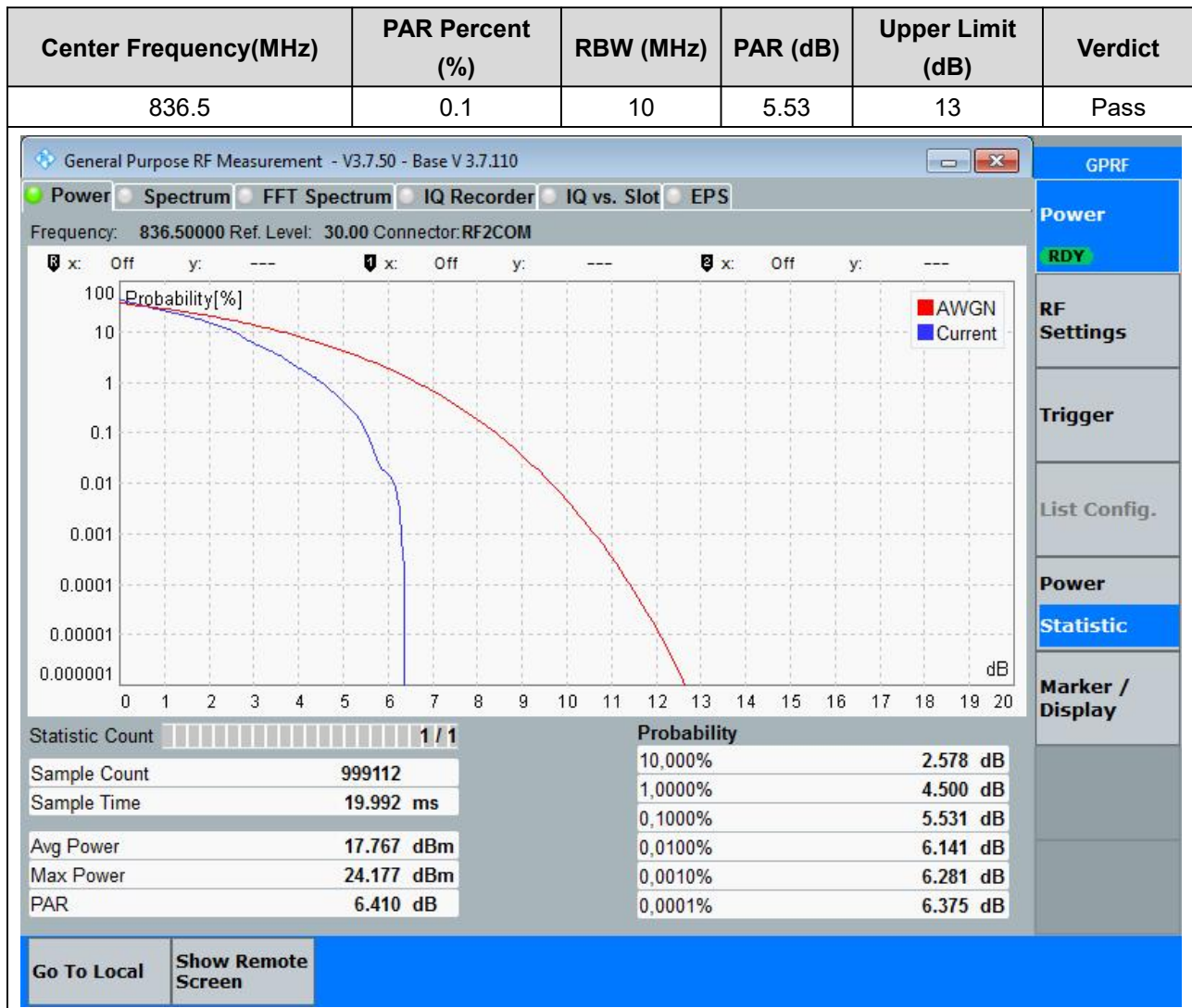
3.3 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20450, Bandwidth:10, Modulation:16QAM, RB Number:1, RB Position:0)



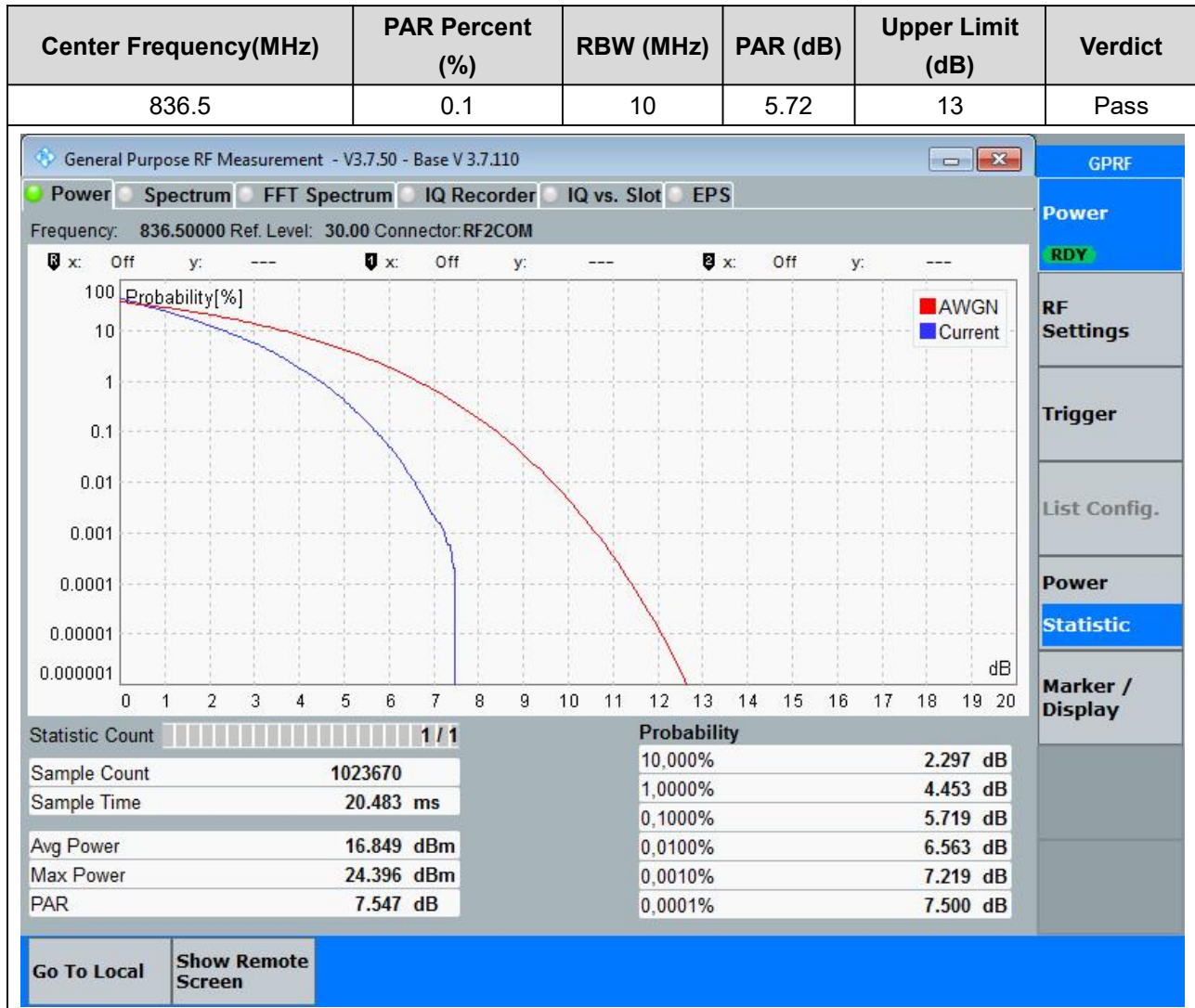
3.4 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20450, Bandwidth:10, Modulation:16QAM, RB Number:50, RB Position:0)



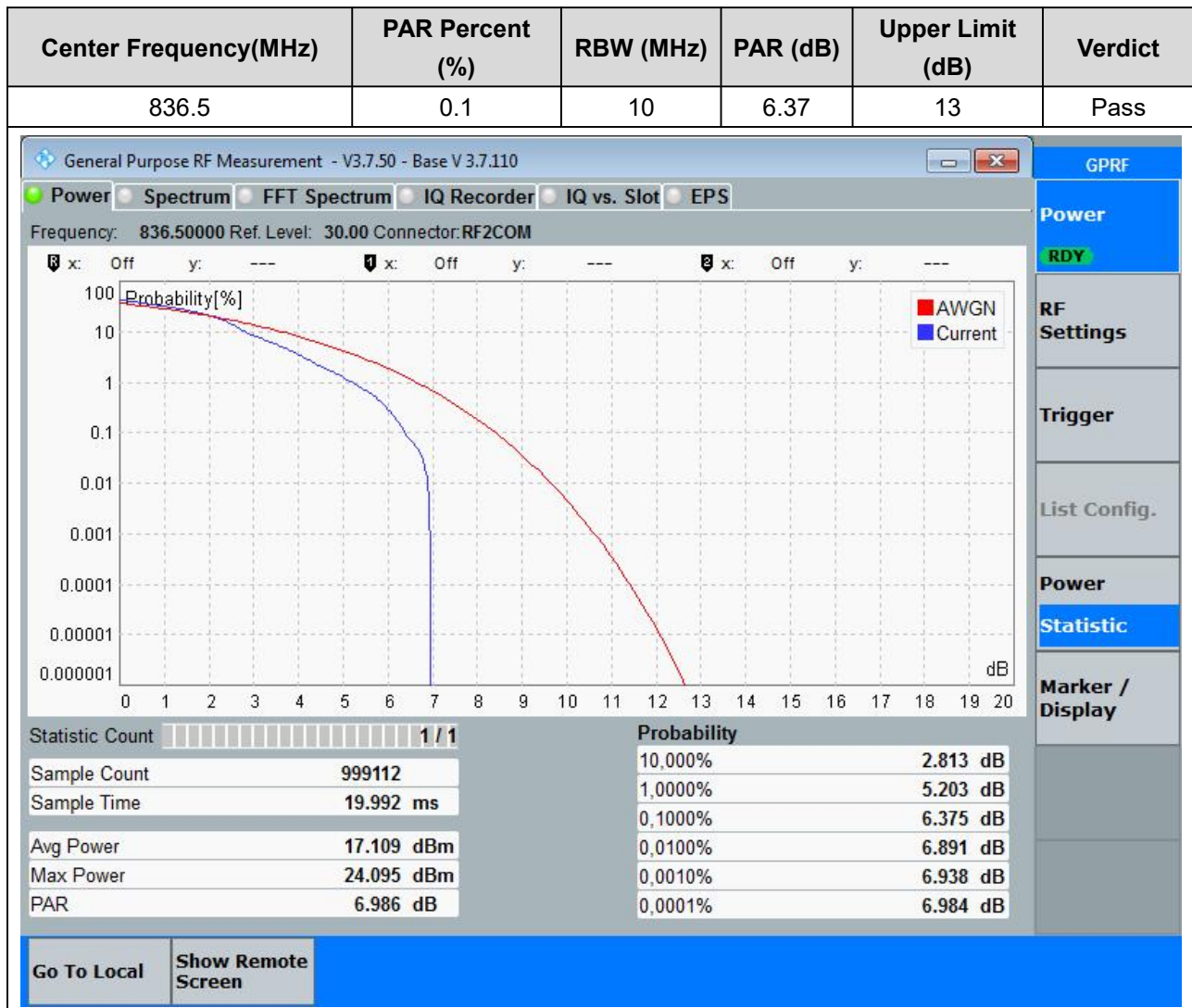
3.5 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number:1, RB Position:0)



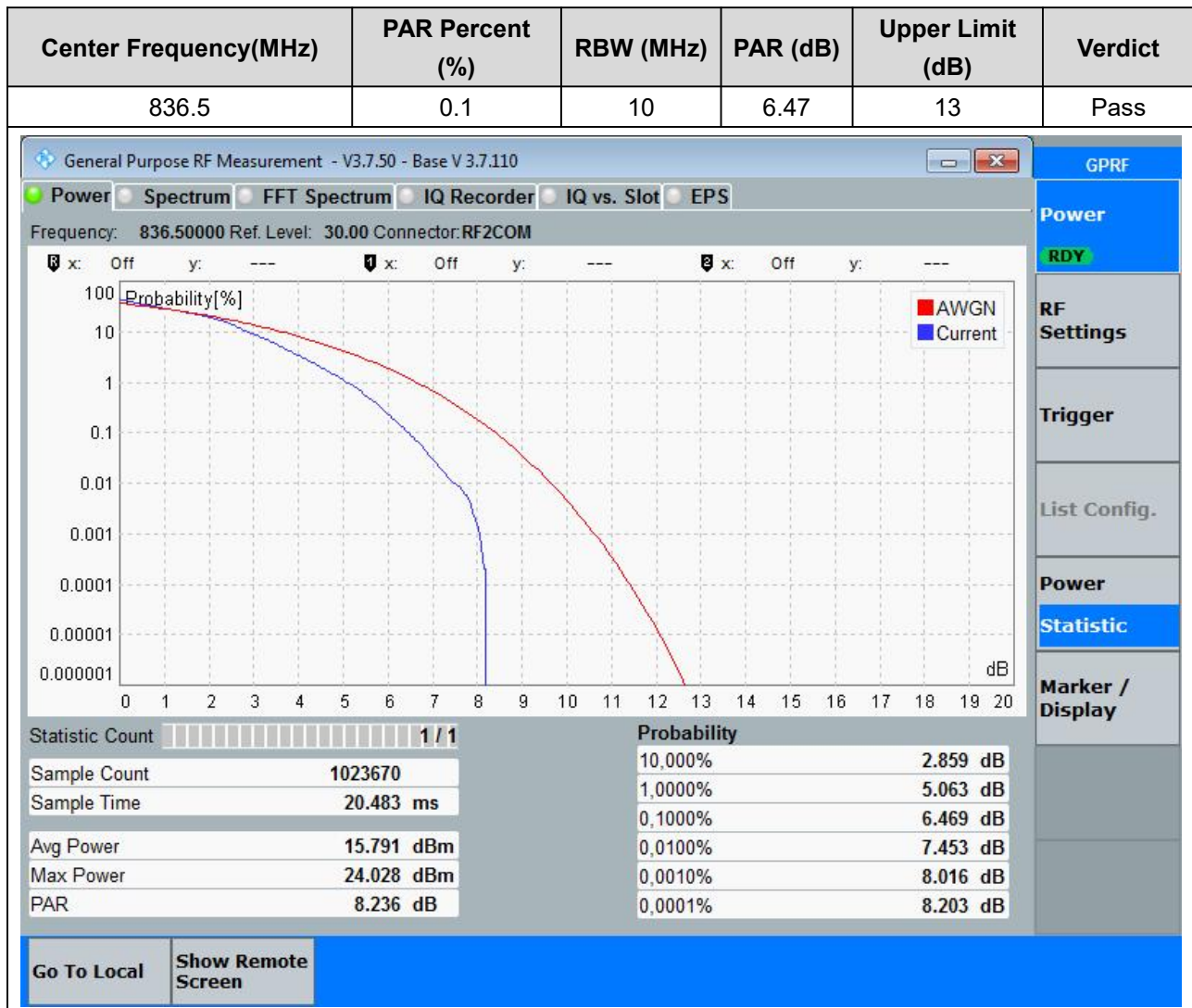
3.6 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number:50, RB Position:0)



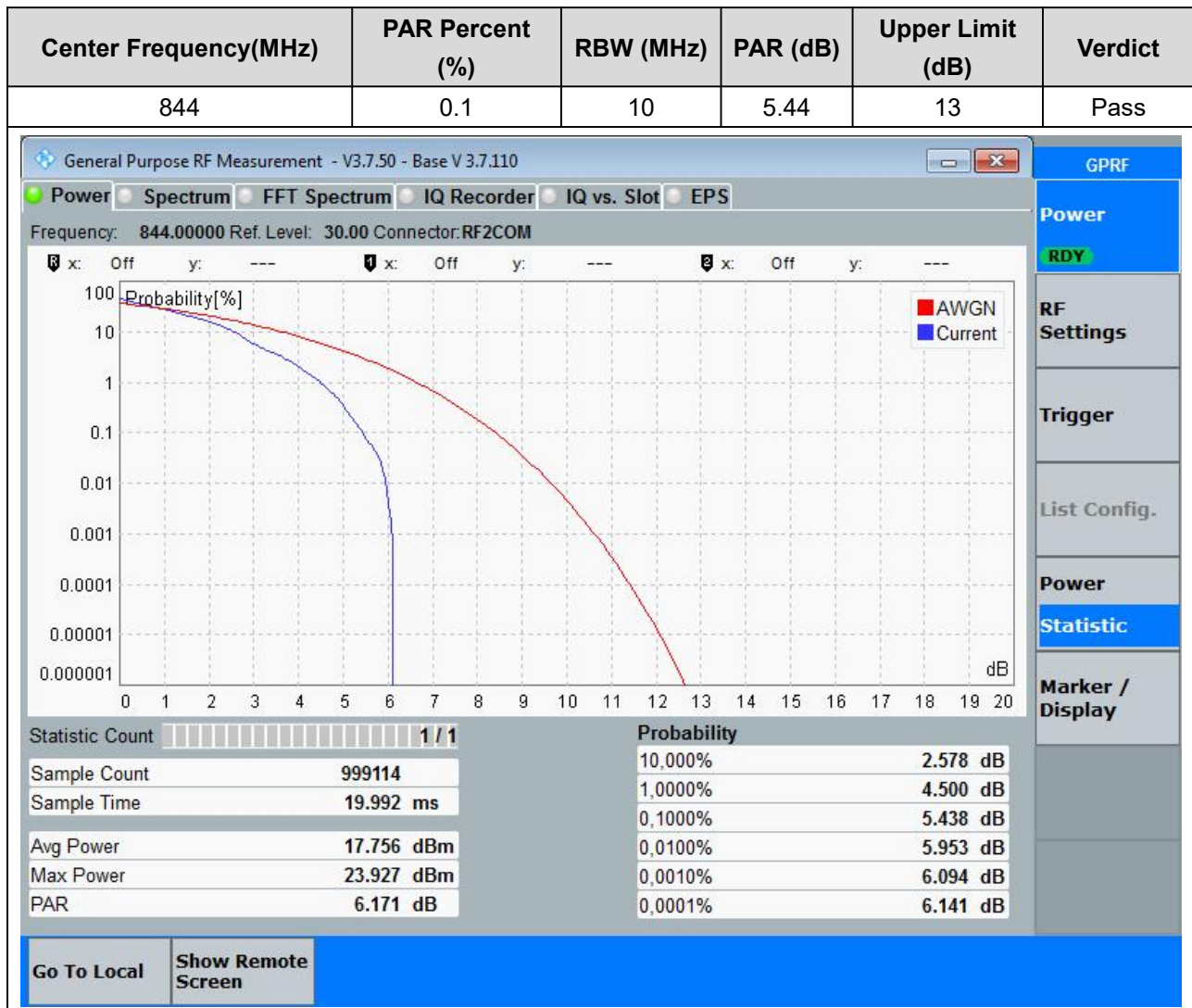
3.7 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20525, Bandwidth:10, Modulation:16QAM, RB Number:1, RB Position:0)



3.8 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20525, Bandwidth:10, Modulation:16QAM, RB Number:50, RB Position:0)

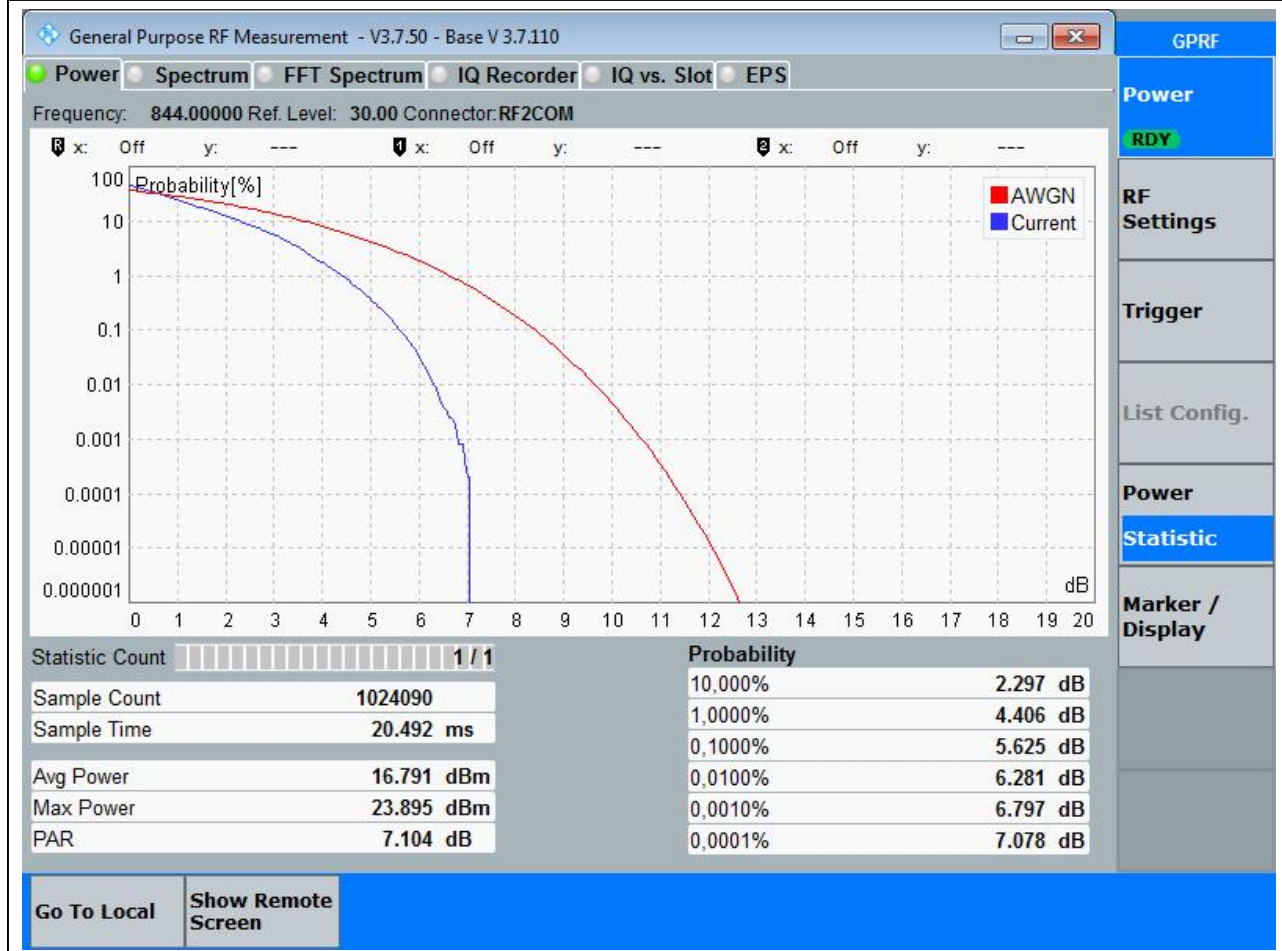


3.9 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number:1, RB Position:0)



3.10 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
844	0.1	10	5.62	13	Pass



3.11 LTE Peak to Average Ratio_Part22-24-27(NTNV)(Channel:20600, Bandwidth:10, Modulation:16QAM, RB Number:1, RB Position:0)

