

Peak to Average Ratio

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Verdict
Band 2	LCH	2.95	13	Pass
	MCH	3	13	Pass
	HCH	3	13	Pass
Band 4	LCH	2.95	13	Pass
	MCH	3	13	Pass
	HCH	3	13	Pass
Band 5	LCH	3	13	Pass
	MCH	2.95	13	Pass
	HCH	3.05	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	4.69	13	Pass
				RB100#0	5.39	13	Pass
			16-QAM	RB1#0	5.25	13	Pass
				RB100#0	6.14	13	Pass
		MCH	QPSK	RB1#0	4.92	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	5.67	13	Pass
				RB100#0	6.33	13	Pass
		HCH	QPSK	RB1#0	5.11	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	6.09	13	Pass
				RB100#0	6.23	13	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.36	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	5.02	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	5.02	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	5.77	13	Pass
				RB100#0	6.33	13	Pass
		HCH	QPSK	RB1#0	4.97	13	Pass
				RB100#0	5.53	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	5.95	13	Pass
				RB100#0	6.23	13	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	5.48	13	Pass
				RB50#0	5.62	13	Pass
			16-QAM	RB1#0	6.33	13	Pass
				RB50#0	6.28	13	Pass
		MCH	QPSK	RB1#0	4.5	13	Pass
				RB50#0	5.53	13	Pass
			16-QAM	RB1#0	5.44	13	Pass
				RB50#0	6.23	13	Pass
		HCH	QPSK	RB1#0	4.78	13	Pass
				RB50#0	5.67	13	Pass
			16-QAM	RB1#0	5.53	13	Pass
				RB50#0	6.47	13	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	4.73	13	Pass
				RB100#0	5.48	13	Pass
			16-QAM	RB1#0	5.39	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	5.02	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	5.81	13	Pass
				RB100#0	6.28	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 12	10 MHz	LCH	QPSK	RB1#0	4.59	13	Pass
				RB50#0	5.44	13	Pass
			16-QAM	RB1#0	5.44	13	Pass
				RB50#0	6.14	13	Pass
		MCH	QPSK	RB1#0	4.45	13	Pass
				RB50#0	5.48	13	Pass
			16-QAM	RB1#0	5.39	13	Pass
				RB50#0	6.23	13	Pass
		HCH	QPSK	RB1#0	4.36	13	Pass
				RB50#0	5.39	13	Pass
			16-QAM	RB1#0	5.11	13	Pass
				RB50#0	6.19	13	Pass

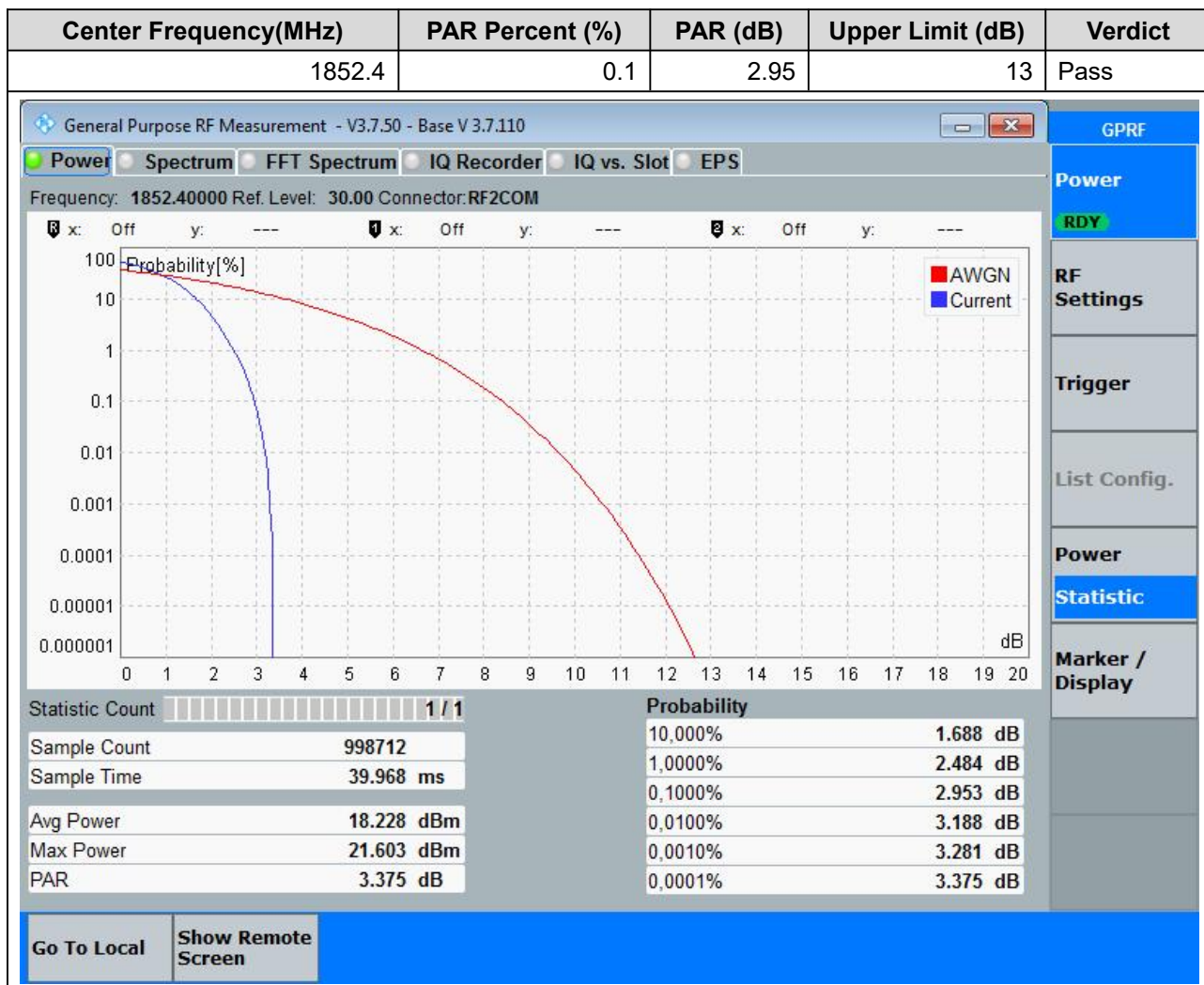
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
LTE Band 13	10 MHz	MCH	QPSK	RB1#0	3.89	13	Pass
				RB50#0	5.44	13	Pass
			16-QAM	RB1#0	4.83	13	Pass
				RB50#0	6.14	13	Pass
LTE Band 17	10 MHz	LCH	QPSK	RB1#0	4.41	13	Pass
				RB50#0	5.44	13	Pass
			16-QAM	RB1#0	5.3	13	Pass
				RB50#0	6.19	13	Pass
		MCH	QPSK	RB1#0	4.41	13	Pass
				RB50#0	5.44	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB50#0	6.23	13	Pass
		HCH	QPSK	RB1#0	4.36	13	Pass
				RB50#0	5.39	13	Pass
			16-QAM	RB1#0	5.06	13	Pass
				RB50#0	6.19	13	Pass
LTE Band 25	20 MHz	LCH	QPSK	RB1#0	4.73	13	Pass
				RB100#0	5.44	13	Pass
			16-QAM	RB1#0	5.34	13	Pass
				RB100#0	6.19	13	Pass
		MCH	QPSK	RB1#0	5.16	13	Pass
				RB100#0	5.67	13	Pass
			16-QAM	RB1#0	5.91	13	Pass
				RB100#0	6.37	13	Pass
		HCH	QPSK	RB1#0	5.02	13	Pass
				RB100#0	5.62	13	Pass
			16-QAM	RB1#0	6.05	13	Pass
				RB100#0	6.33	13	Pass
LTE Band 26(Part 22)	15 MHz	LCH	QPSK	RB1#0	5.58	13	Pass
				RB75#0	5.91	13	Pass
			16-QAM	RB1#0	6.42	13	Pass
				RB75#0	6.42	13	Pass
		MCH	QPSK	RB1#0	4.92	13	Pass
				RB75#0	5.91	13	Pass
			16-QAM	RB1#0	5.91	13	Pass
				RB75#0	6.42	13	Pass
		HCH	QPSK	RB1#0	4.27	13	Pass
				RB75#0	6	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	5.06	13	Pass
				RB75#0	6.52	13	Pass
LTE Band 26(Part 90)	10 MHz	LCH	QPSK	RB1#0	8.53	13	Pass
				RB50#0	8.62	13	Pass
			16-QAM	RB1#0	8.58	13	Pass
				RB50#0	8.58	13	Pass
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	7.87	13	Pass
				RB100#0	8.91	13	Pass
			16-QAM	RB1#0	8.67	13	Pass
				RB100#0	9.61	13	Pass
		MCH	QPSK	RB1#0	7.97	13	Pass
				RB100#0	8.95	13	Pass
			16-QAM	RB1#0	8.81	13	Pass
				RB100#0	9.66	13	Pass
		HCH	QPSK	RB1#0	8.34	13	Pass
				RB100#0	9.09	13	Pass
			16-QAM	RB1#0	9.14	13	Pass
				RB100#0	9.7	13	Pass
LTE Band 41 (120M)	20 MHz	LCH	QPSK	RB1#0	7.87	13	Pass
				RB100#0	8.86	13	Pass
			16-QAM	RB1#0	8.67	13	Pass
				RB100#0	9.56	13	Pass
		MCH	QPSK	RB1#0	7.31	13	Pass
				RB100#0	8.72	13	Pass
			16-QAM	RB1#0	8.2	13	Pass
				RB100#0	9.47	13	Pass
		HCH	QPSK	RB1#0	7.83	13	Pass
				RB100#0	8.91	13	Pass
			16-QAM	RB1#0	8.81	13	Pass
				RB100#0	9.52	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	4.87	13	Pass
				RB100#0	6.23	13	Pass
		MCH	QPSK	RB1#0	4.73	13	Pass
				RB100#0	5.44	13	Pass
			16-QAM	RB1#0	5.58	13	Pass
				RB100#0	6.19	13	Pass

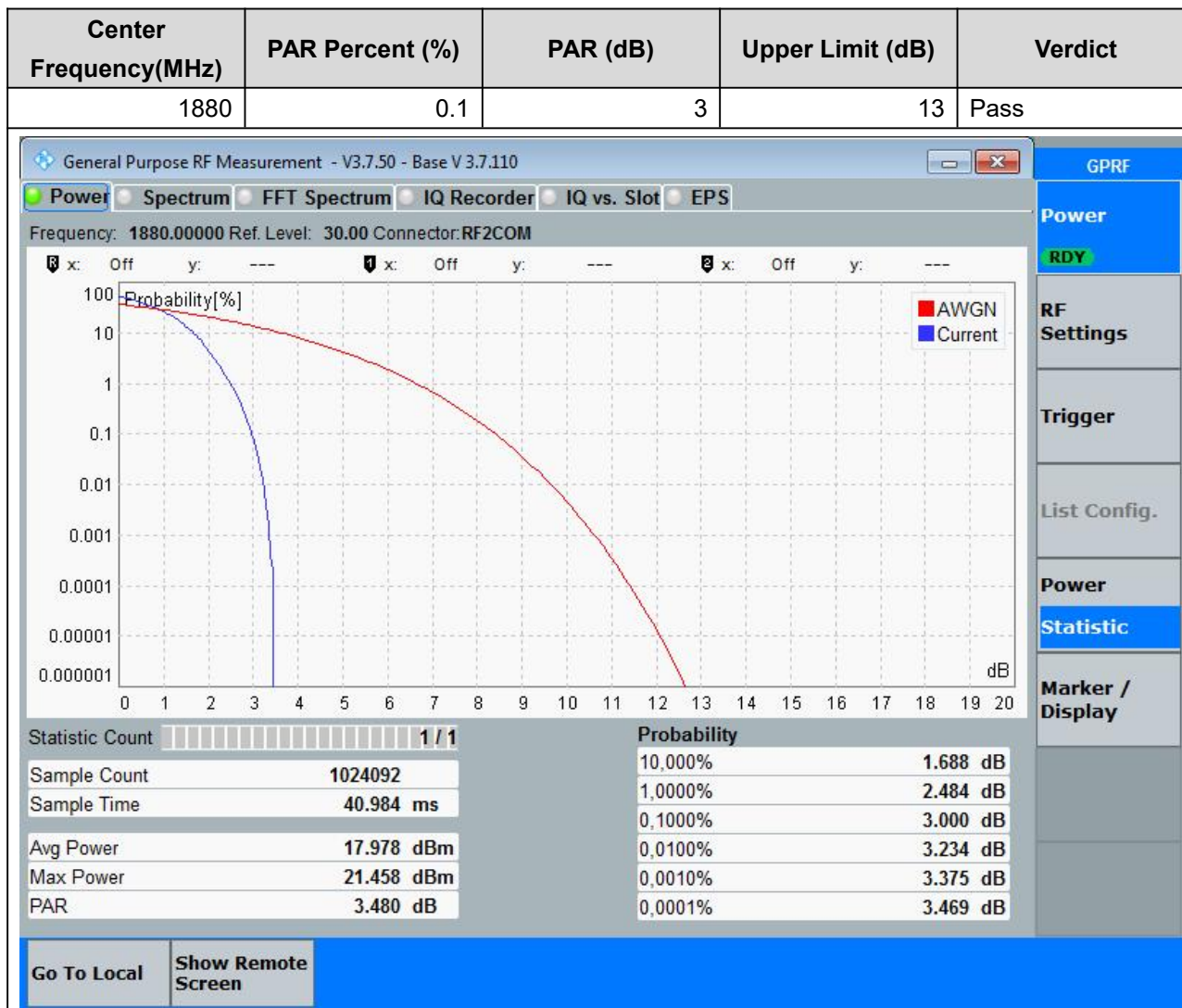
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
		HCH	QPSK	RB1#0	4.59	13	Pass
				RB100#0	5.39	13	Pass
			16-QAM	RB1#0	5.58	13	Pass
				RB100#0	6.14	13	Pass
LTE Band 71	20 MHz	LCH	QPSK	RB1#0	4.92	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	5.53	13	Pass
				RB100#0	6.28	13	Pass
		MCH	QPSK	RB1#0	5.25	13	Pass
				RB100#0	5.58	13	Pass
			16-QAM	RB1#0	6.05	13	Pass
				RB100#0	6.33	13	Pass
		HCH	QPSK	RB1#0	5.39	13	Pass
				RB100#0	5.53	13	Pass
			16-QAM	RB1#0	6.42	13	Pass
				RB100#0	6.23	13	Pass

1. WCDMA_Band2

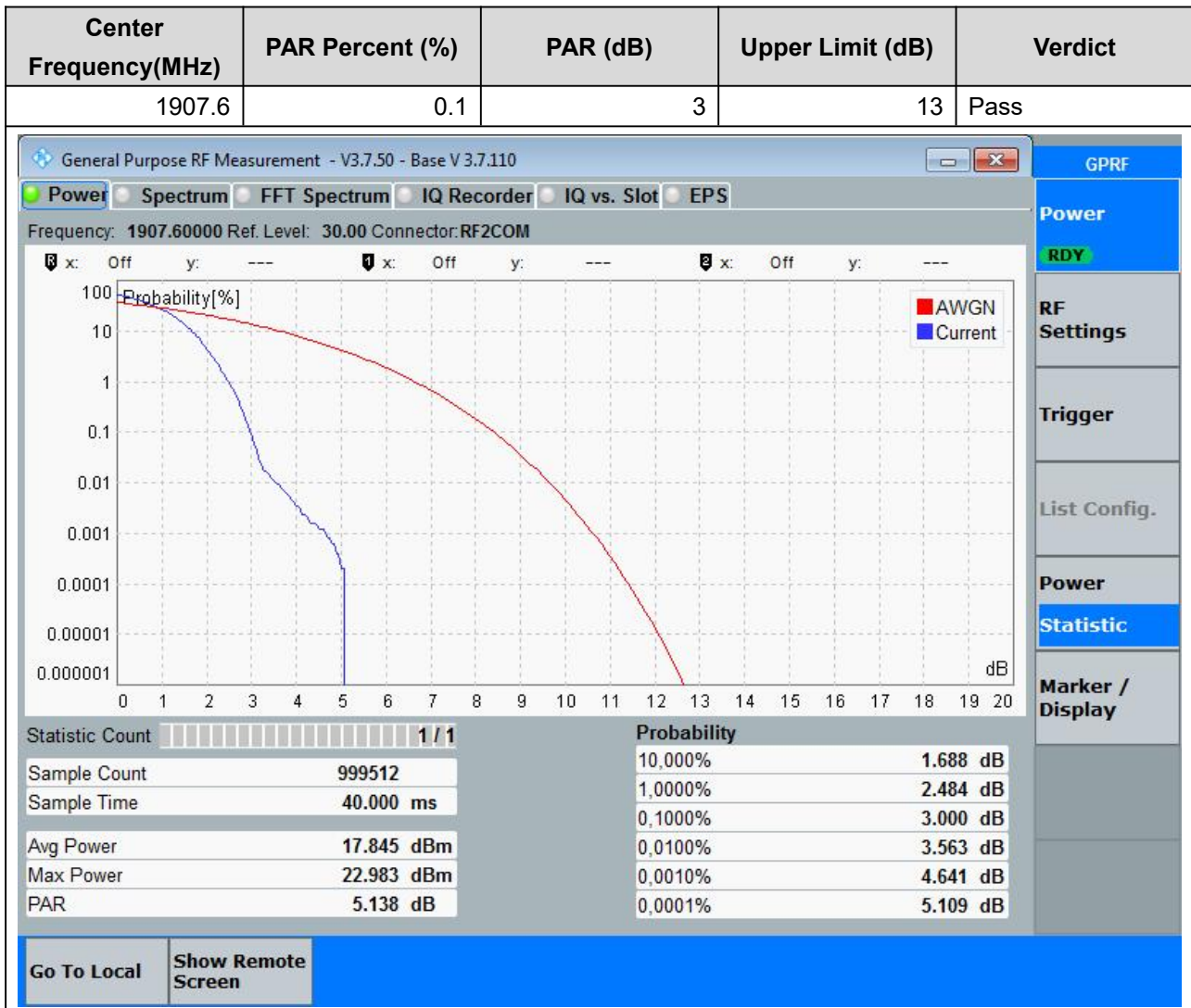
1.1 WCDMA Peak to Average Ratio_Part22-24-27(NTLV)(Channel:9262)



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



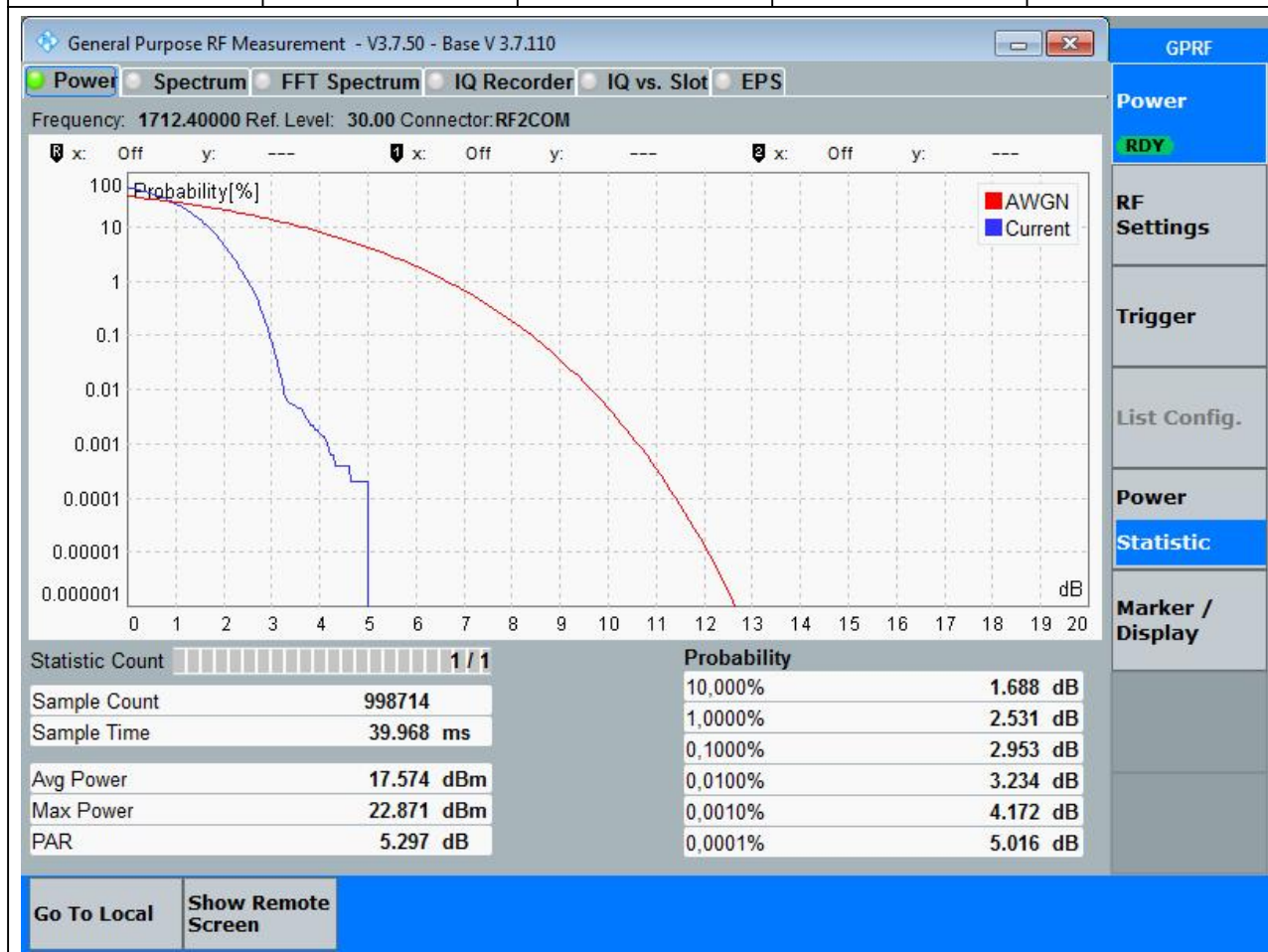
1.3 WCDMA Peak to Average Ratio_Part22-24-27(NTLV)(Channel:9538)



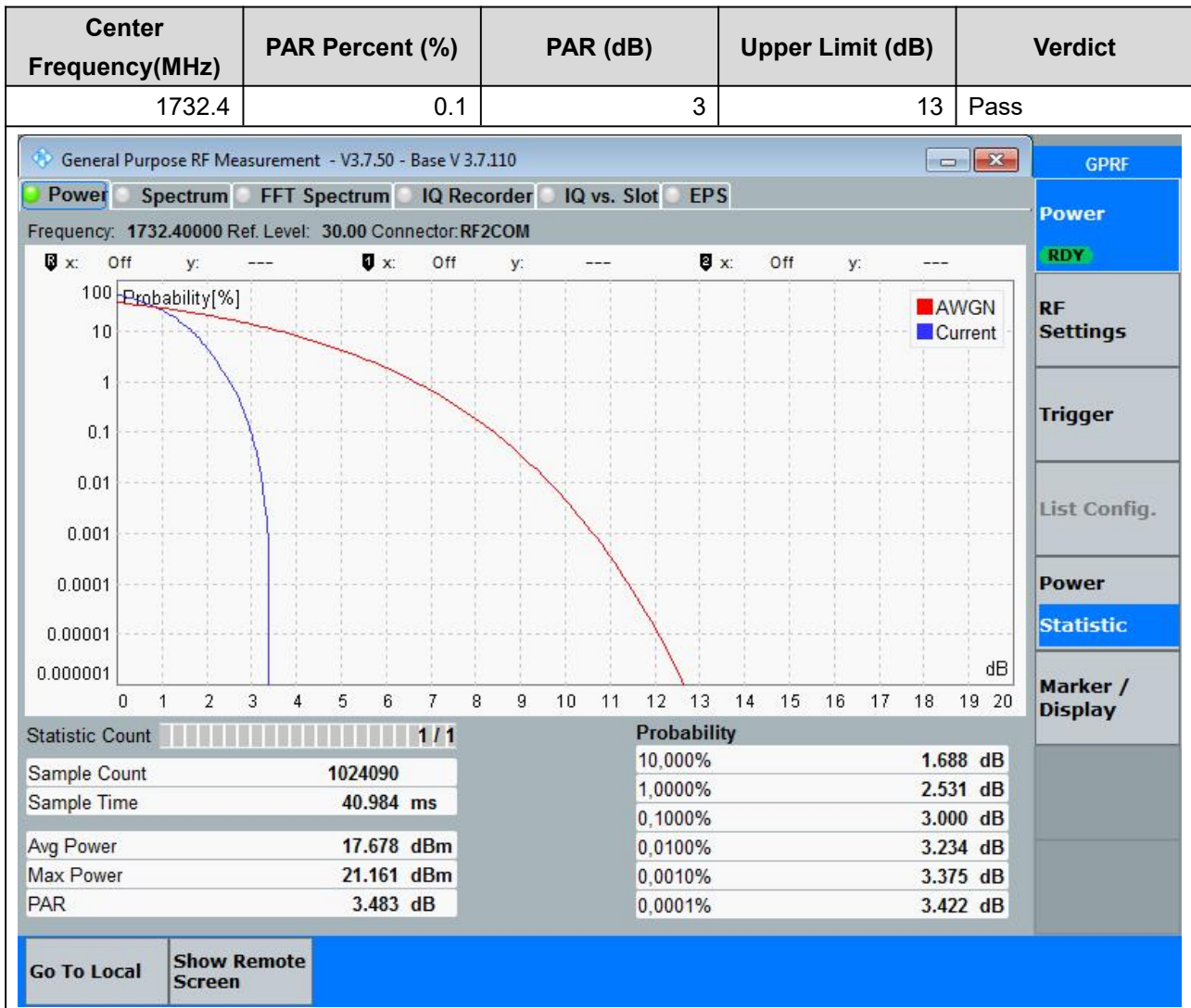
2. WCDMA_Band4

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

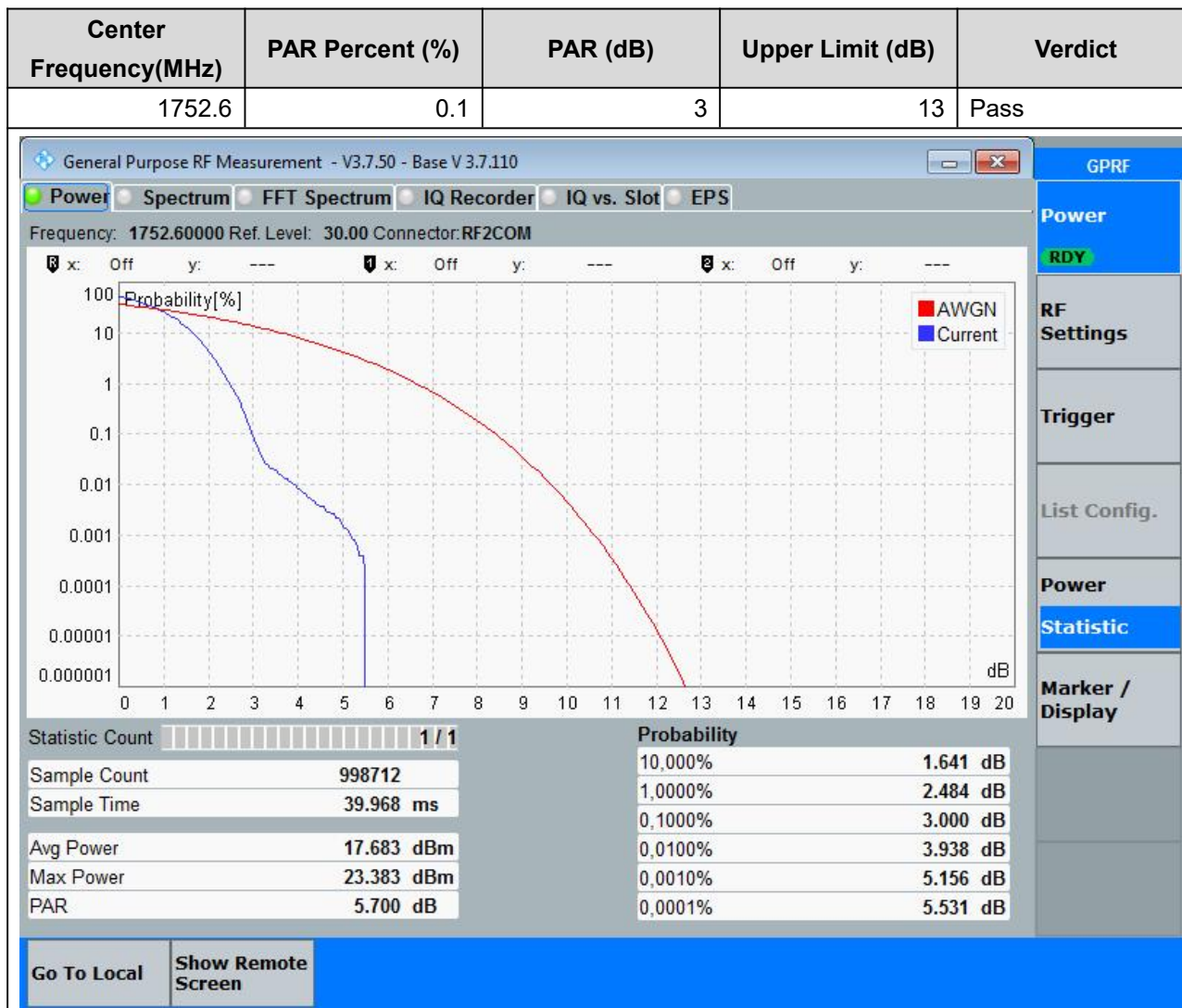
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1712.4	0.1	2.95	13	Pass



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



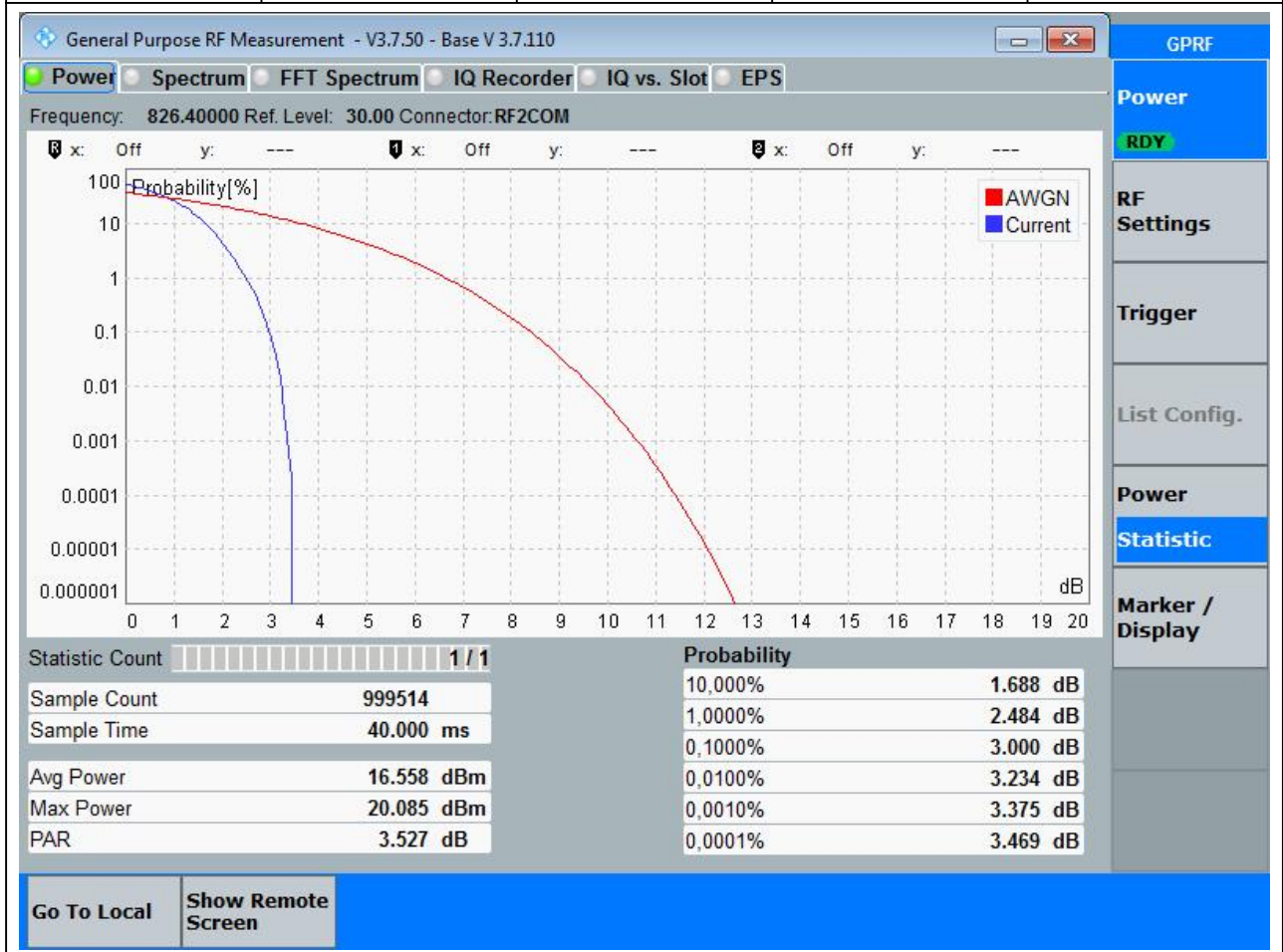
2.3 WCDMA Peak to Average Ratio_Part22-24-27(NTLV)(Channel:1513)



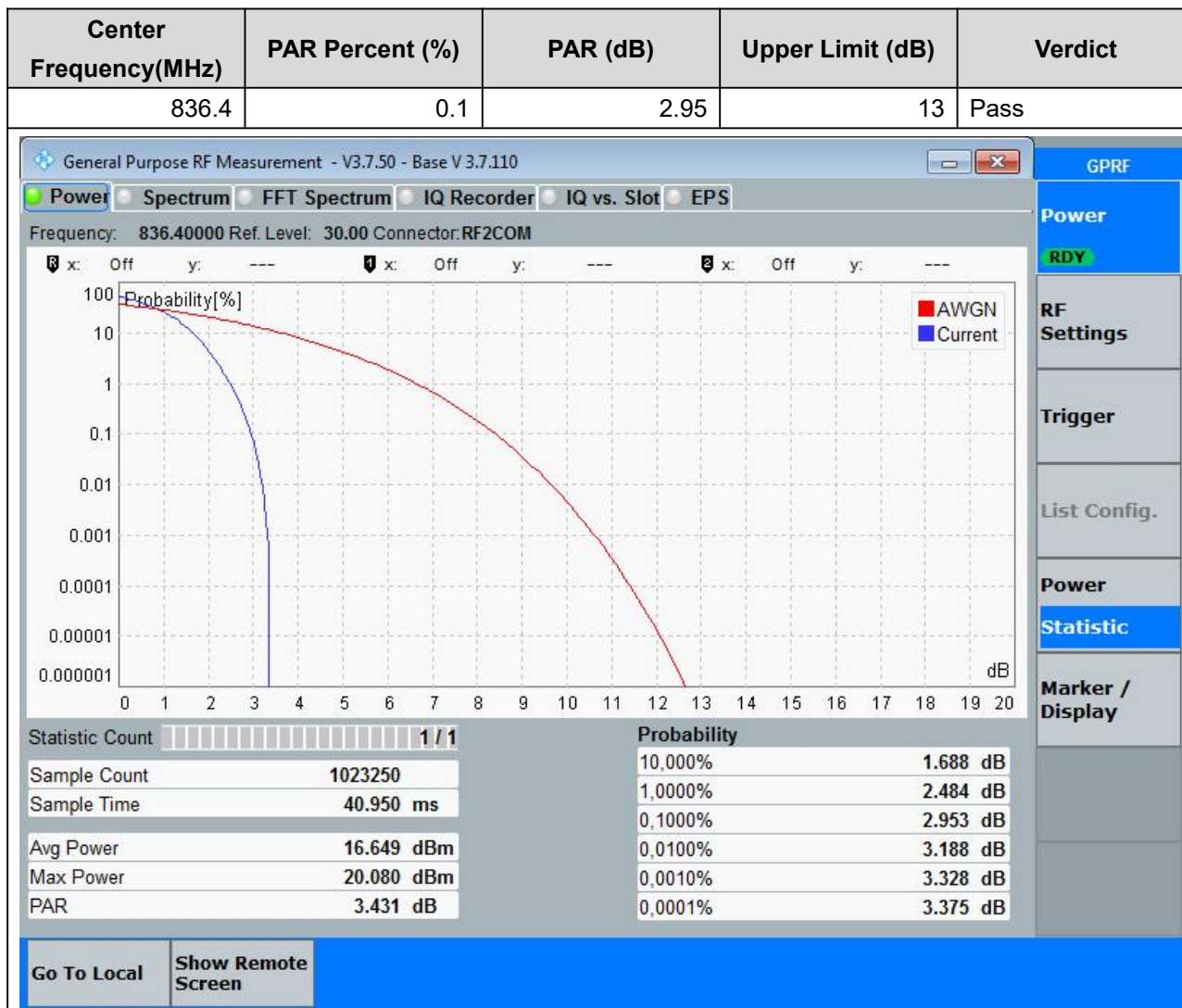
3. WCDMA_Band5

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

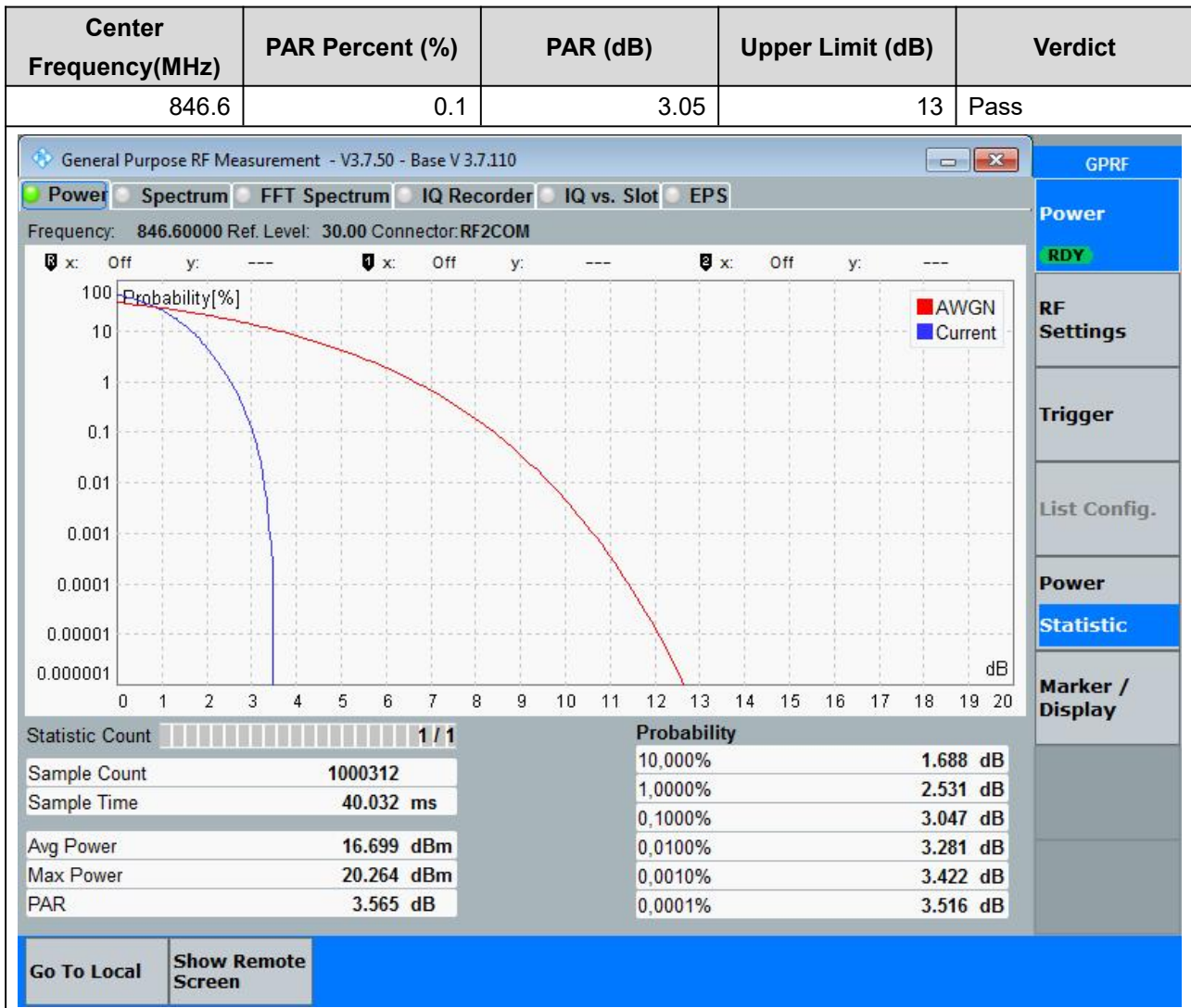
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
826.4	0.1	3	13	Pass



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

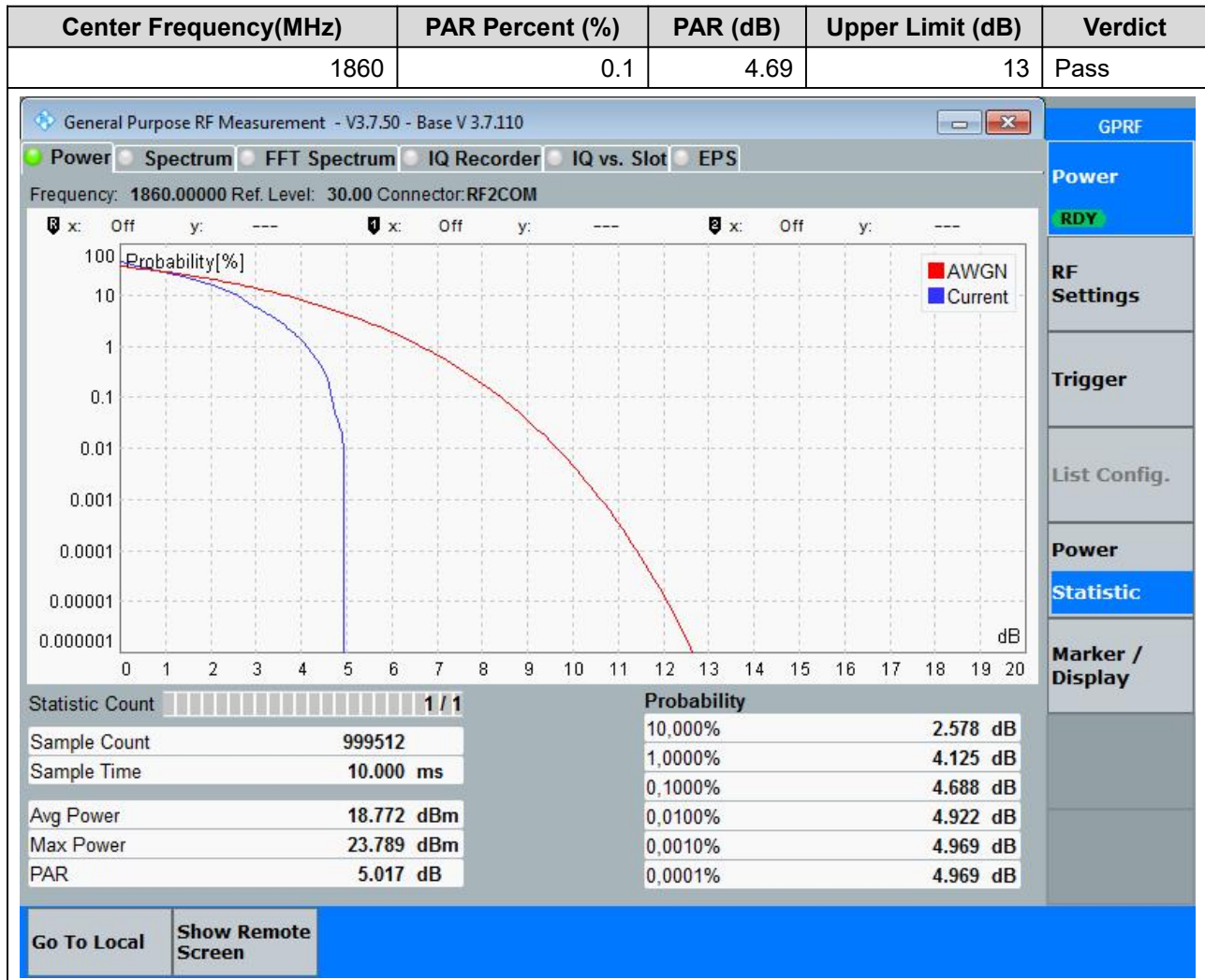


3.3 WCDMA Peak to Average Ratio_Part22-24-27(NTLV)(Channel:4233)

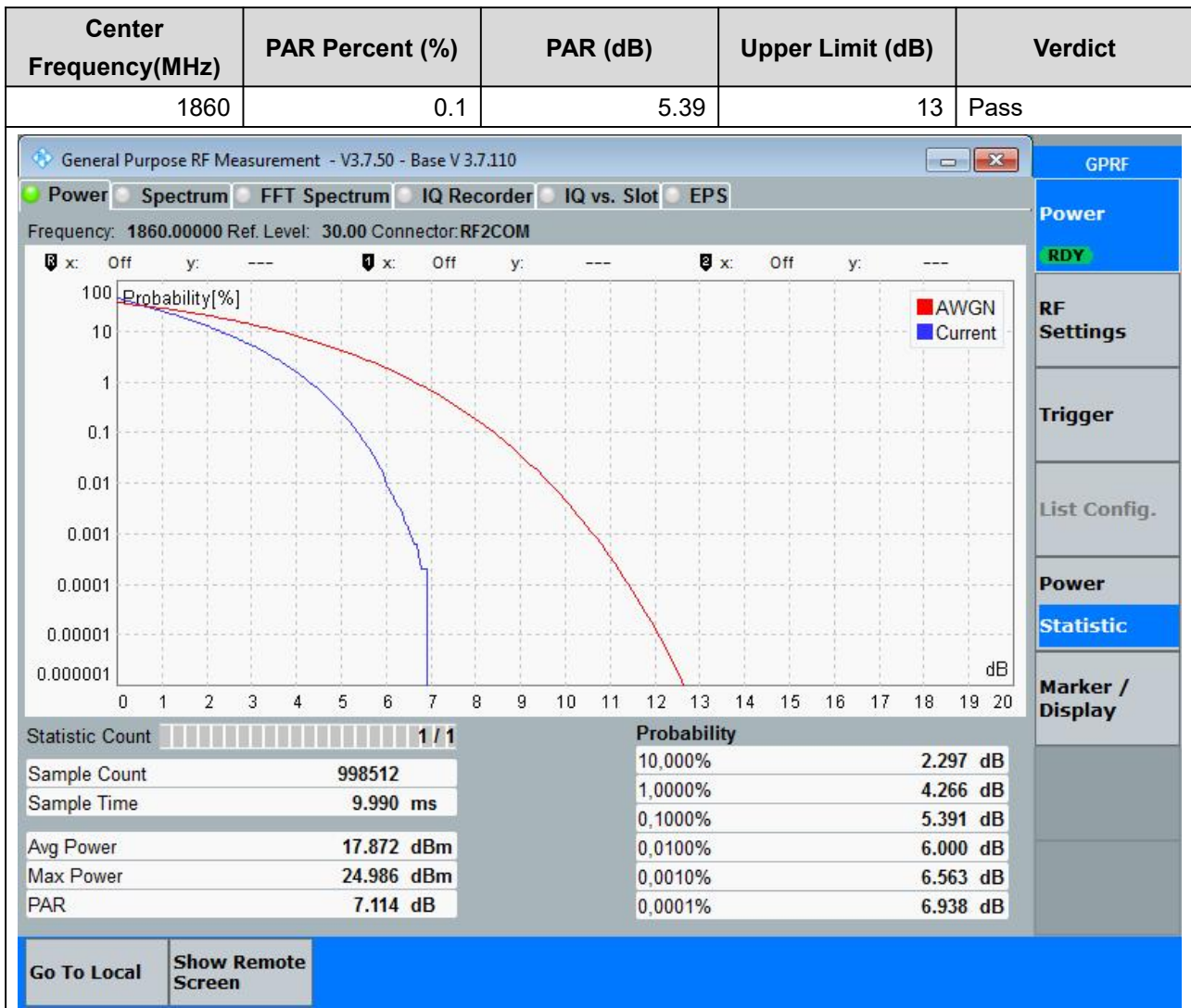


1. LTE_Band2

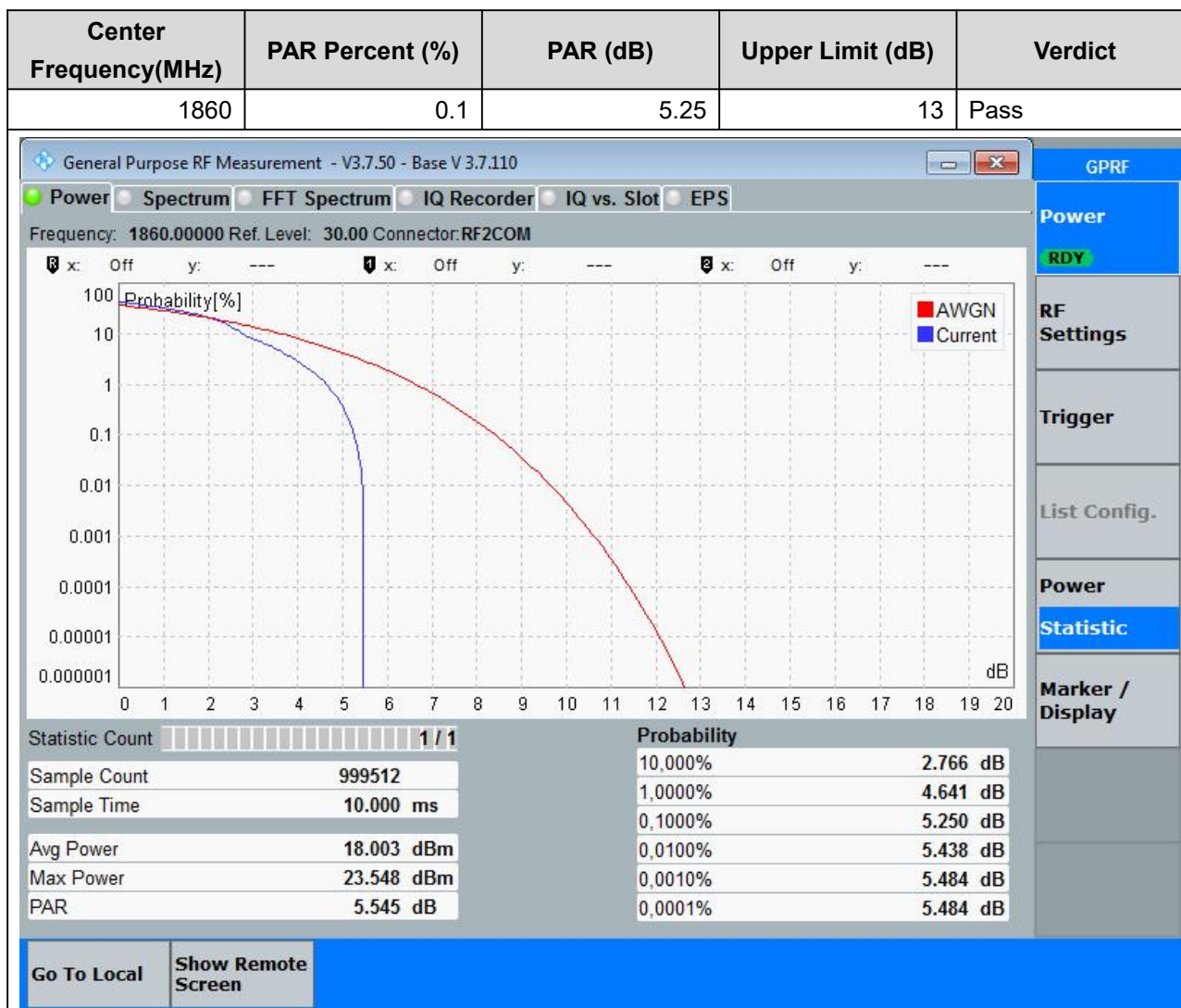
1.1 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:1, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



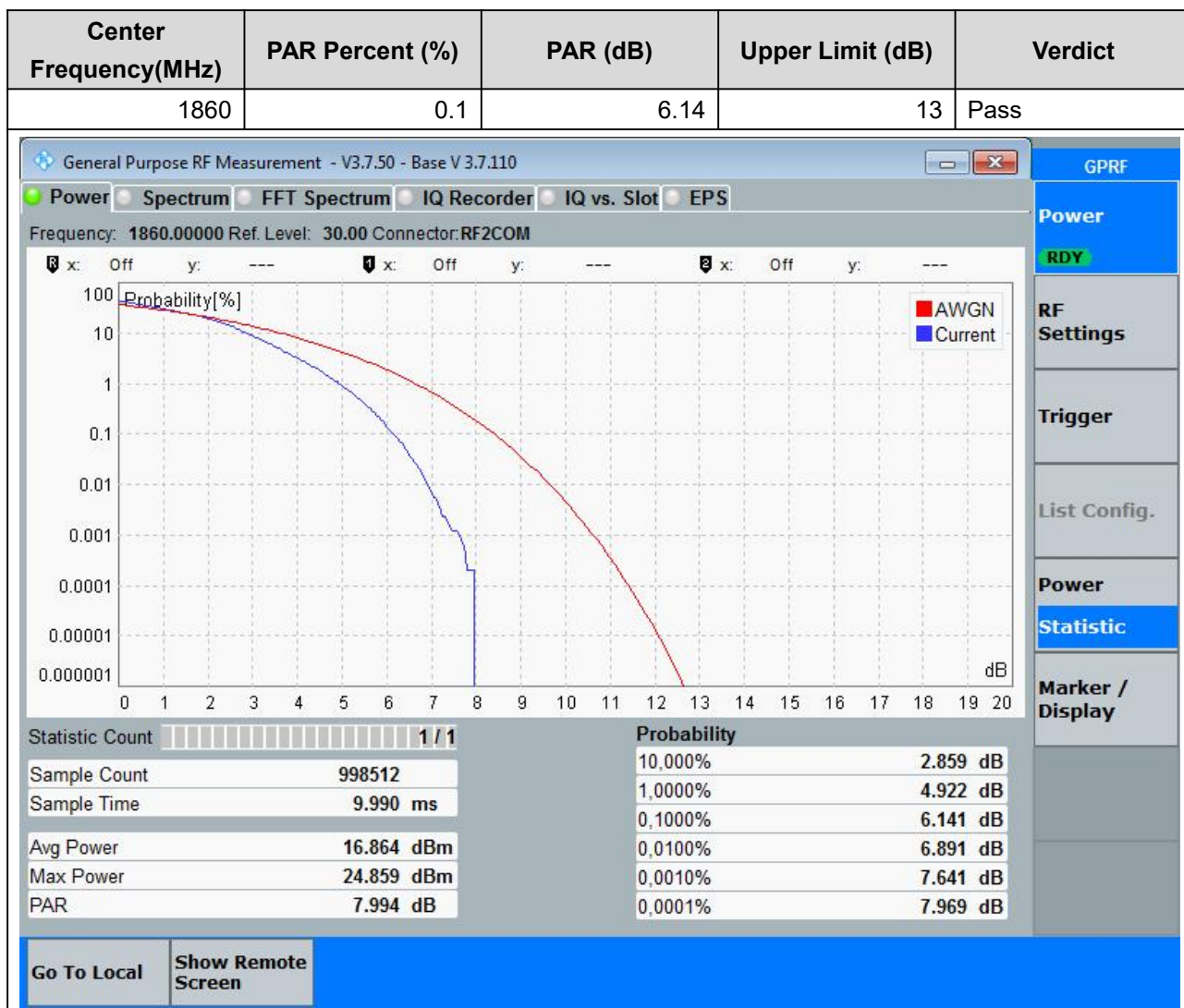
1.2 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:2, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



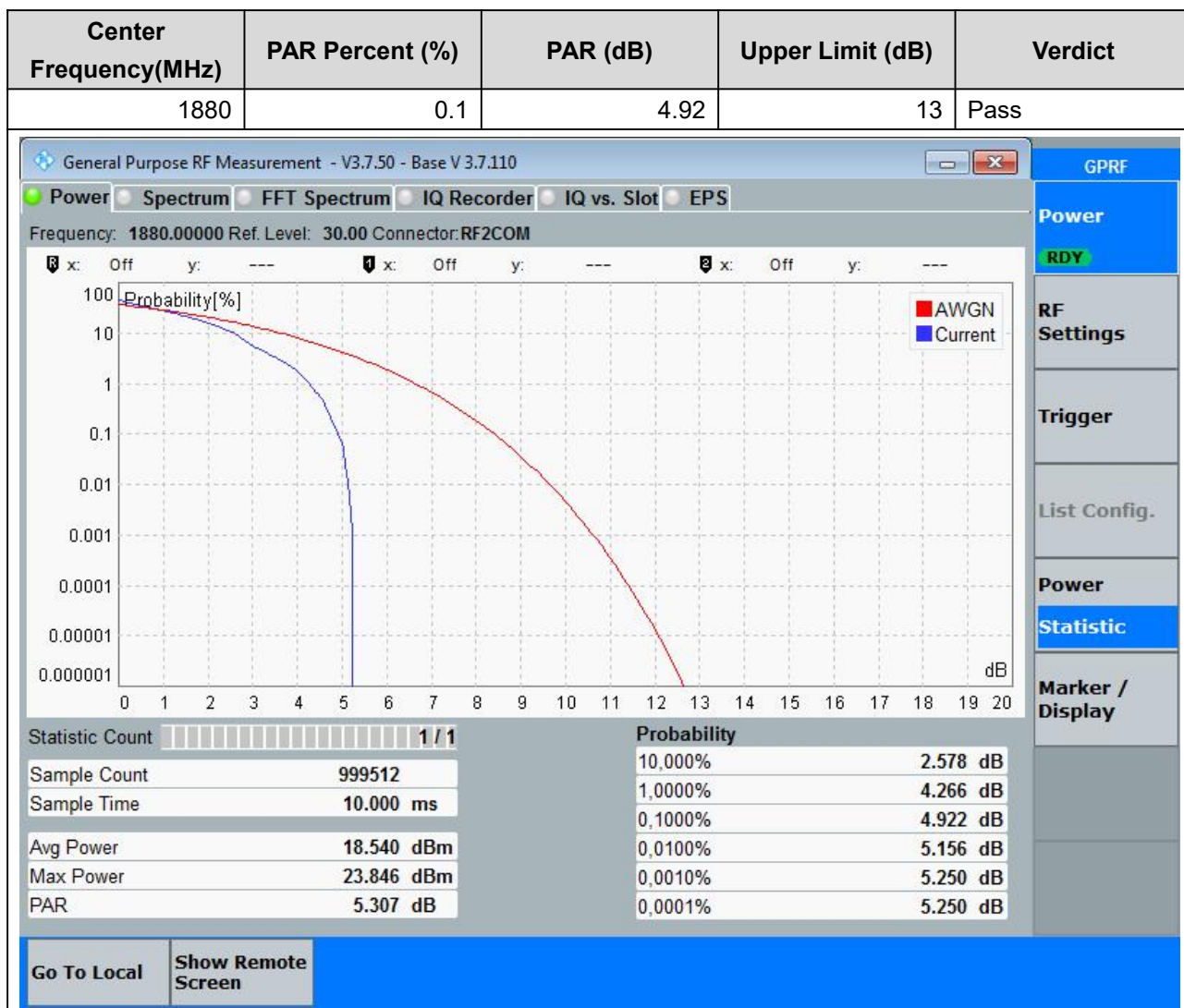
1.3 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:3, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



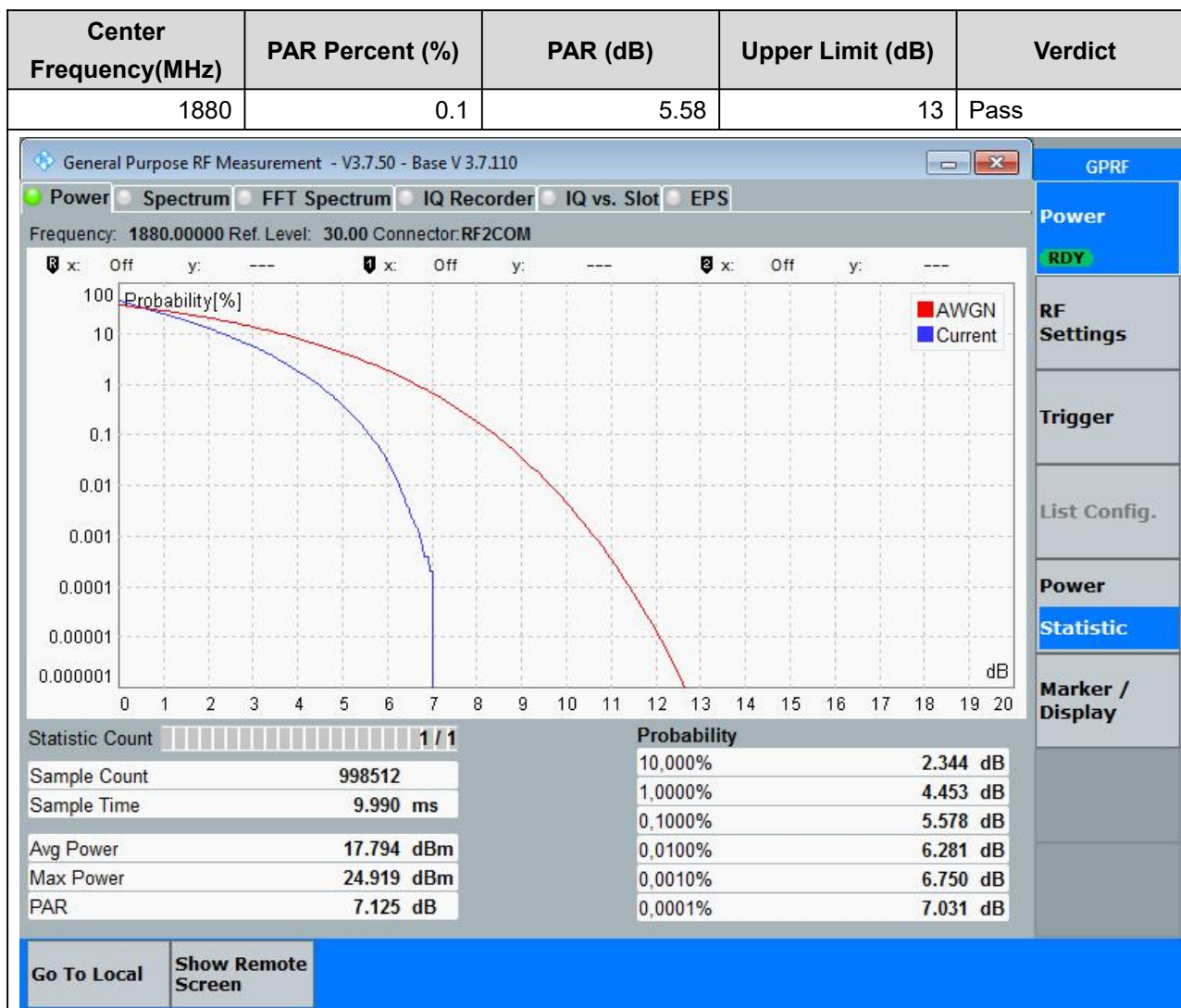
1.4 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:4, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



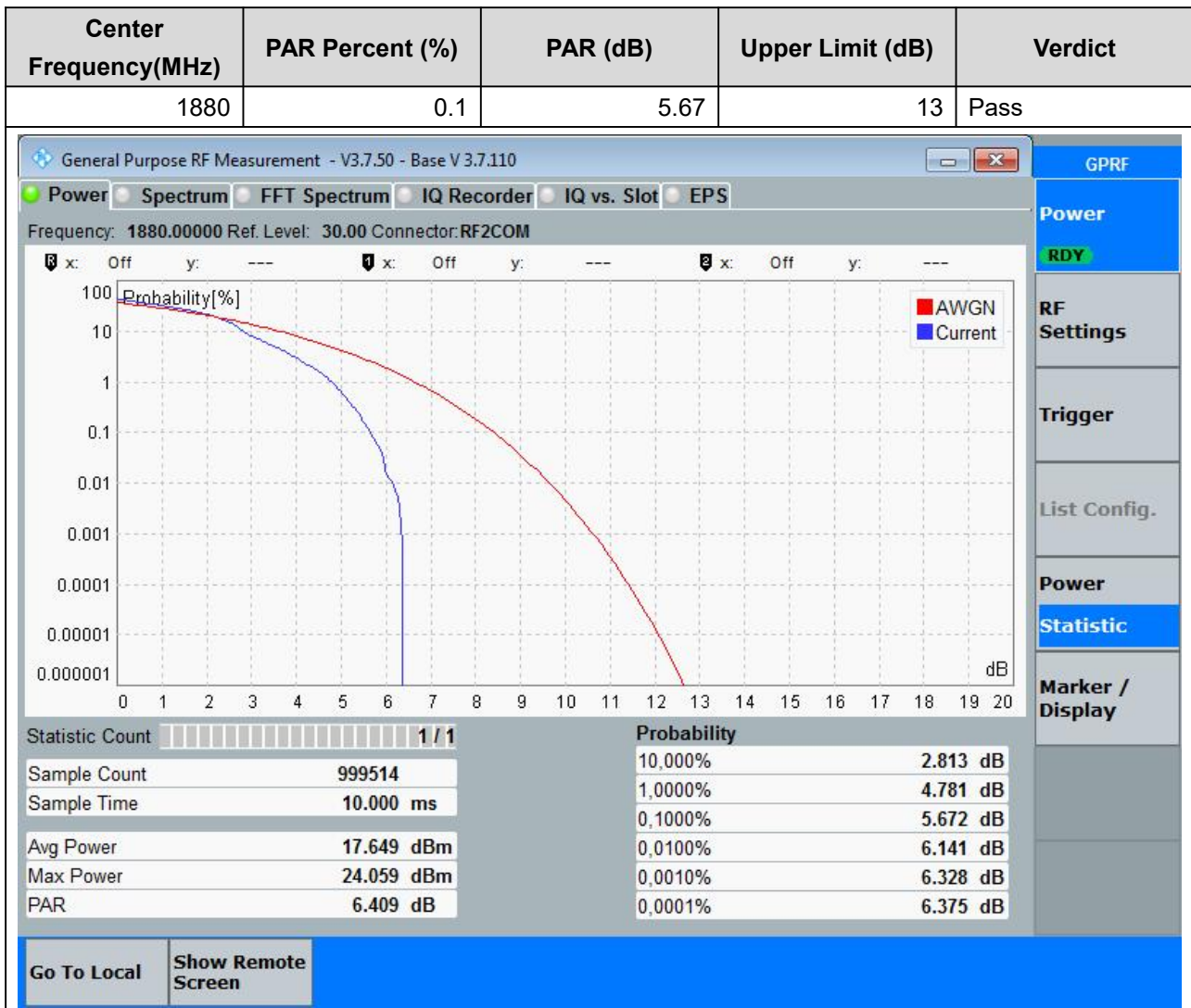
1.5 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:5, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



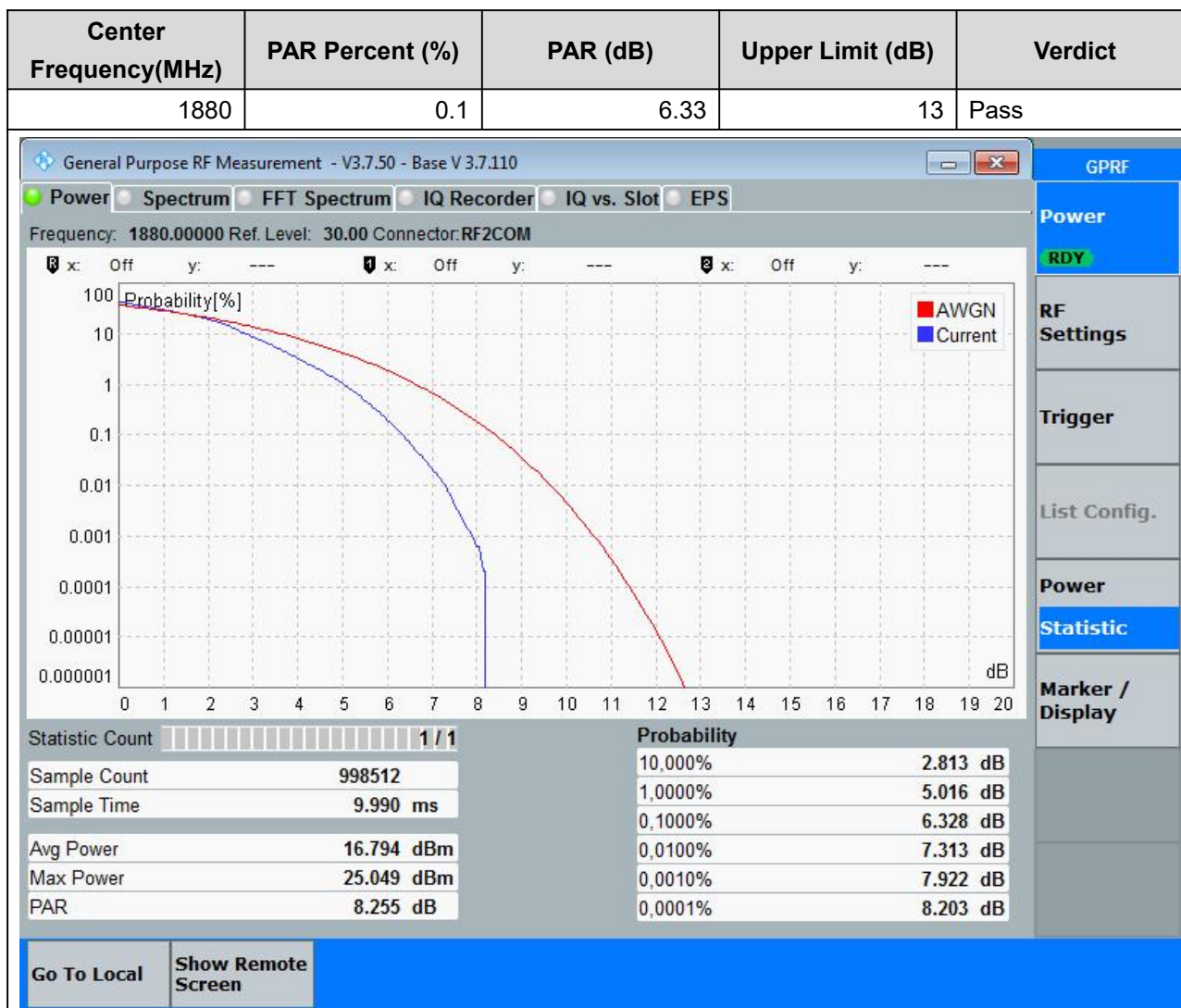
1.6 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:6, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



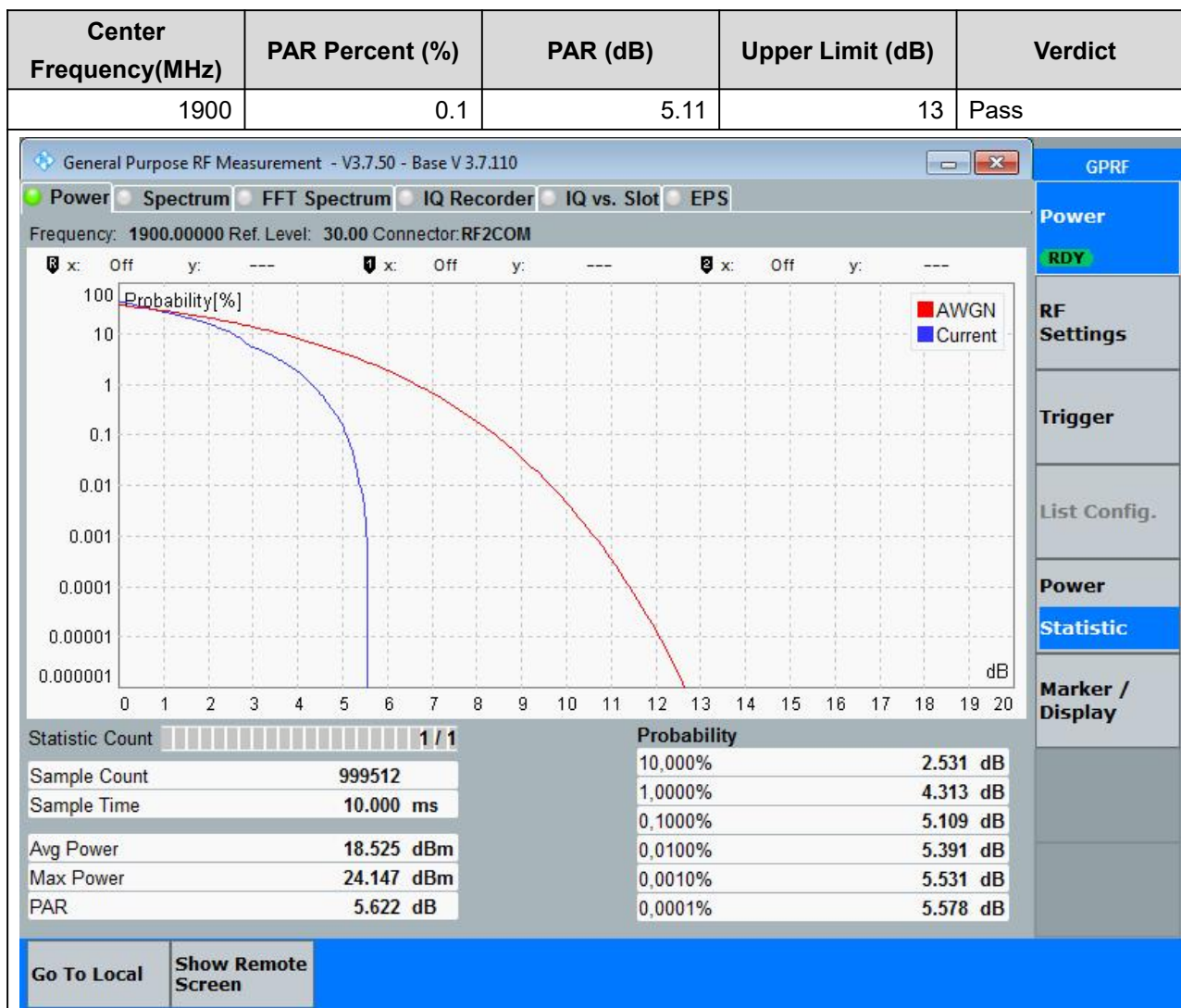
1.7 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:7, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



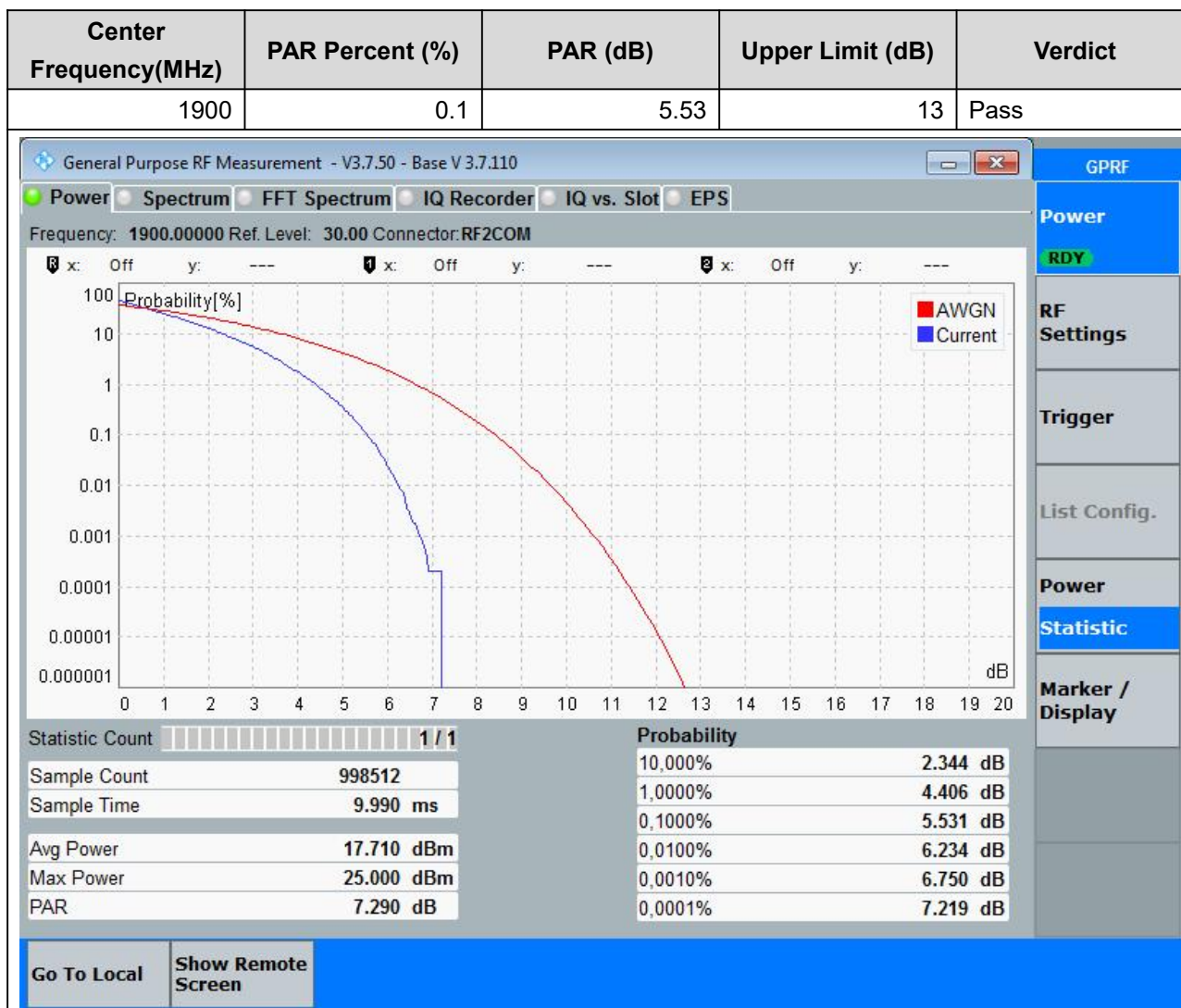
1.8 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:8, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



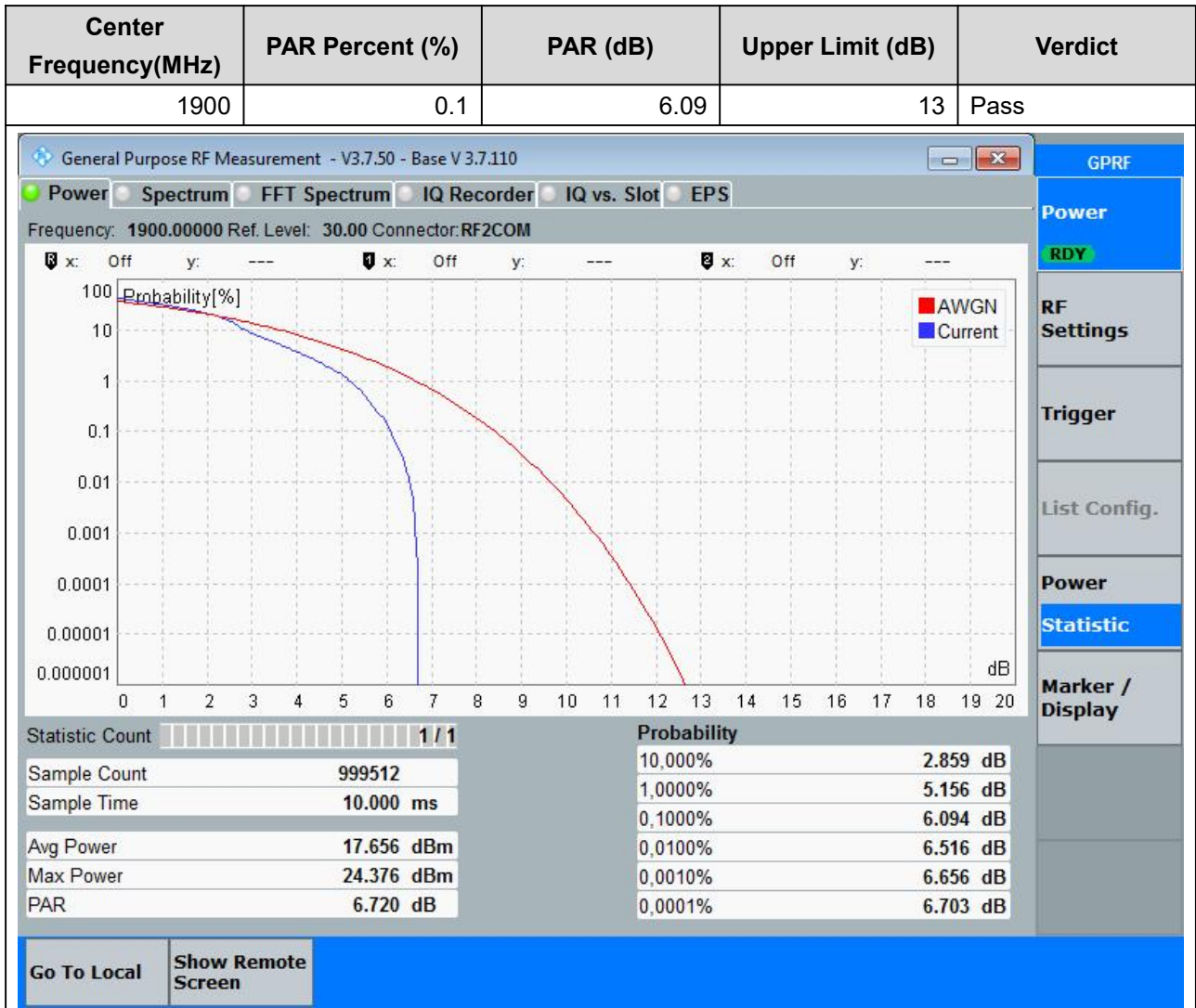
1.9 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:9, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



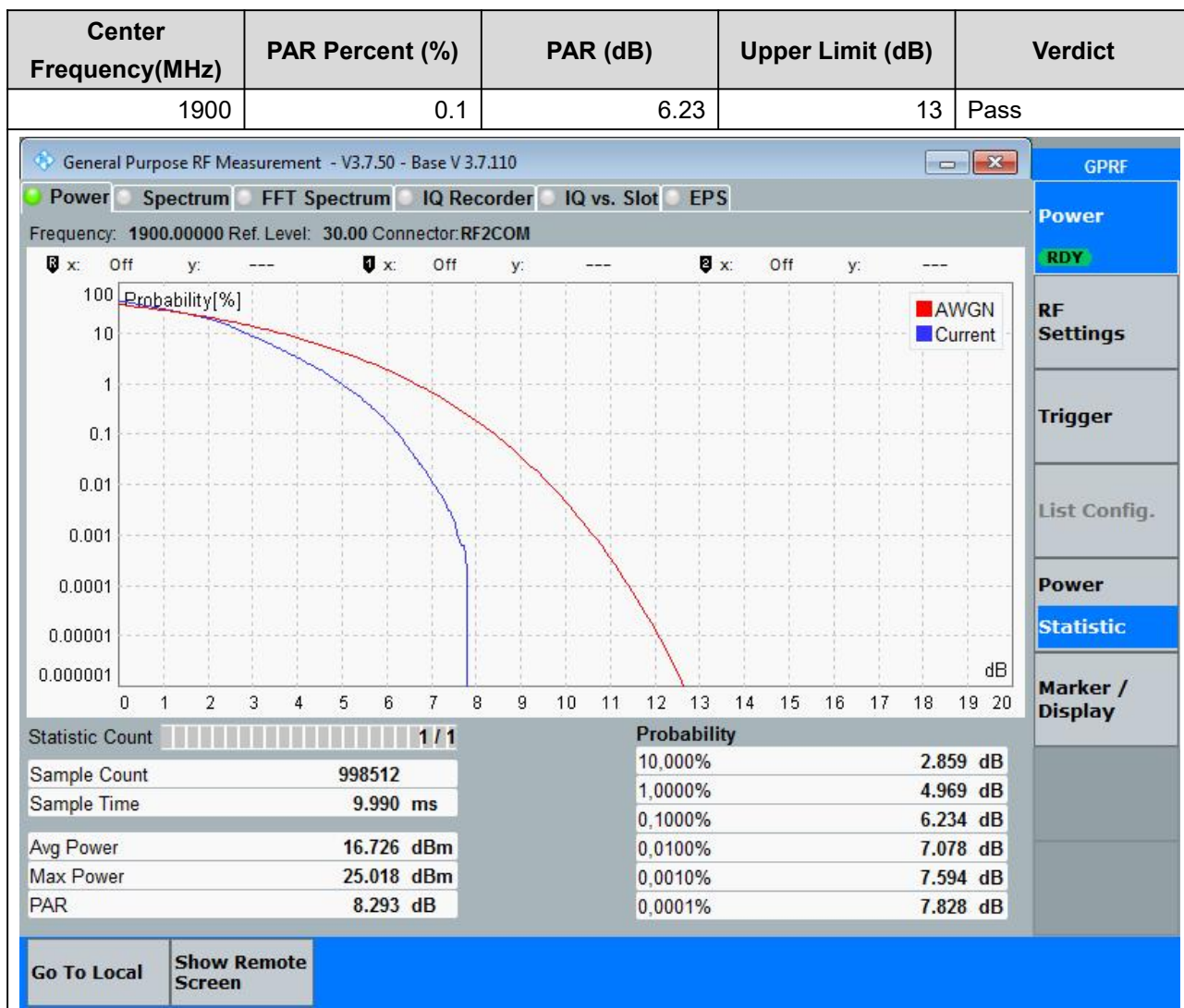
1.10 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:10, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



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

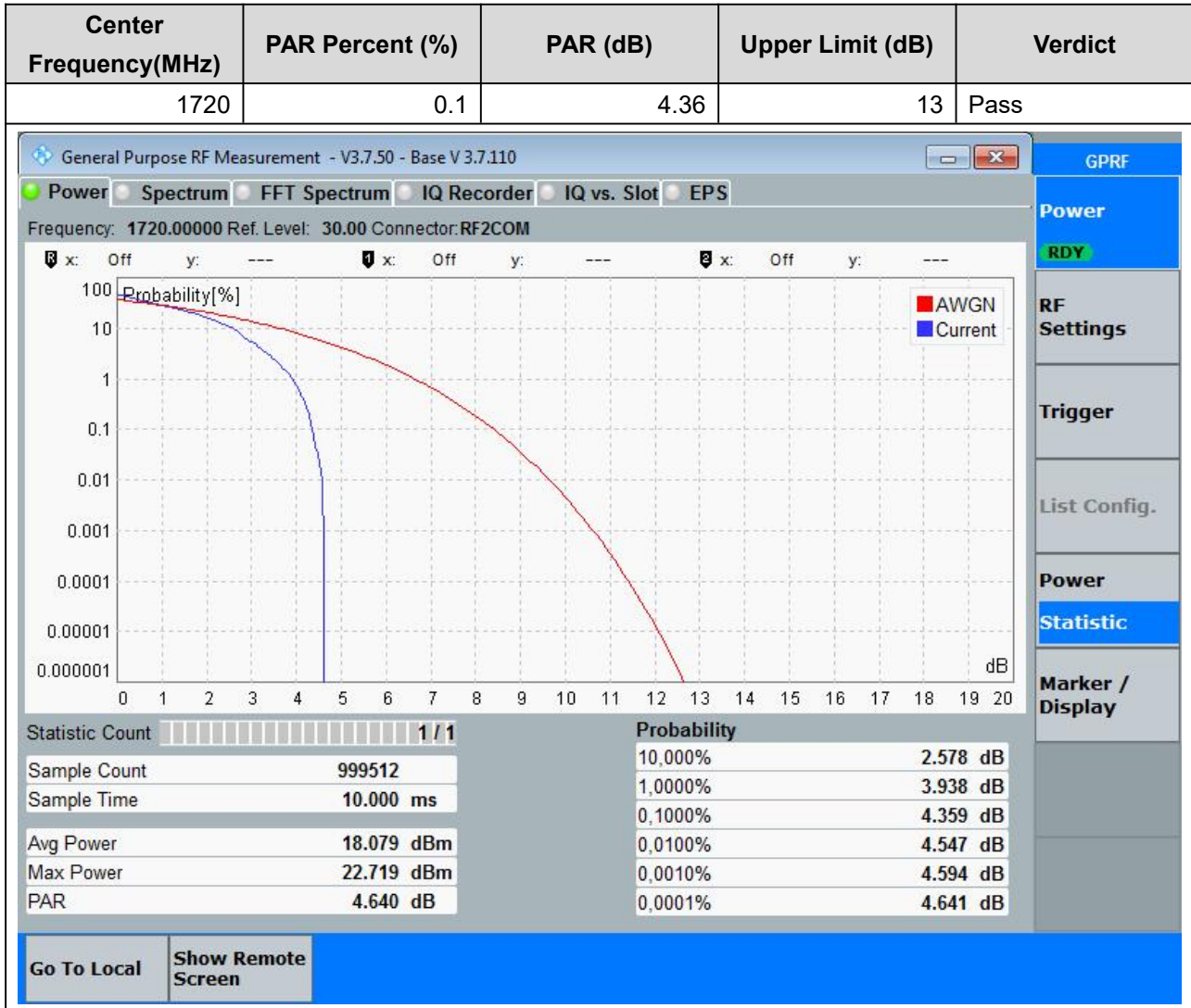


1.12 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:12, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

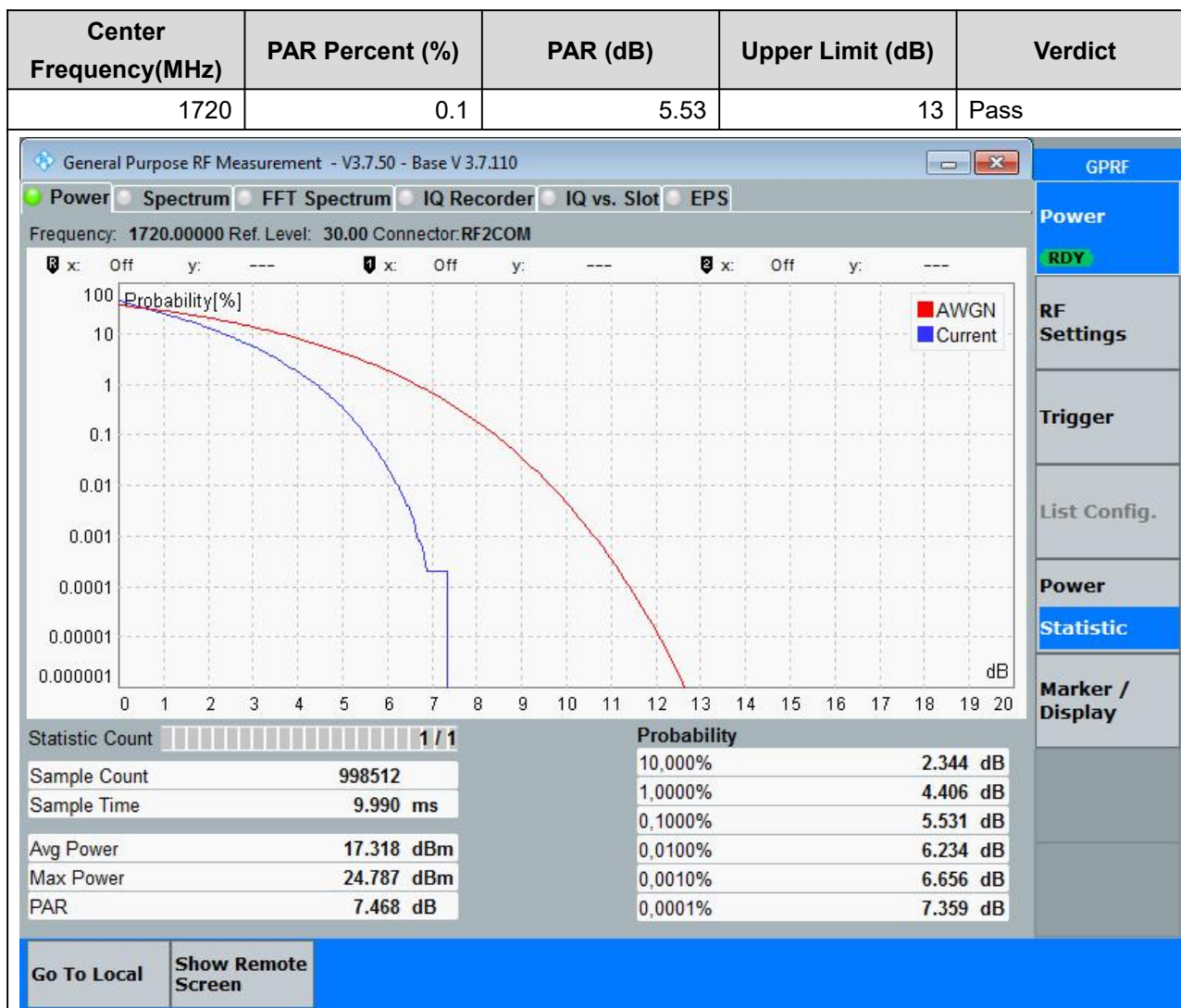


2. LTE_Band4

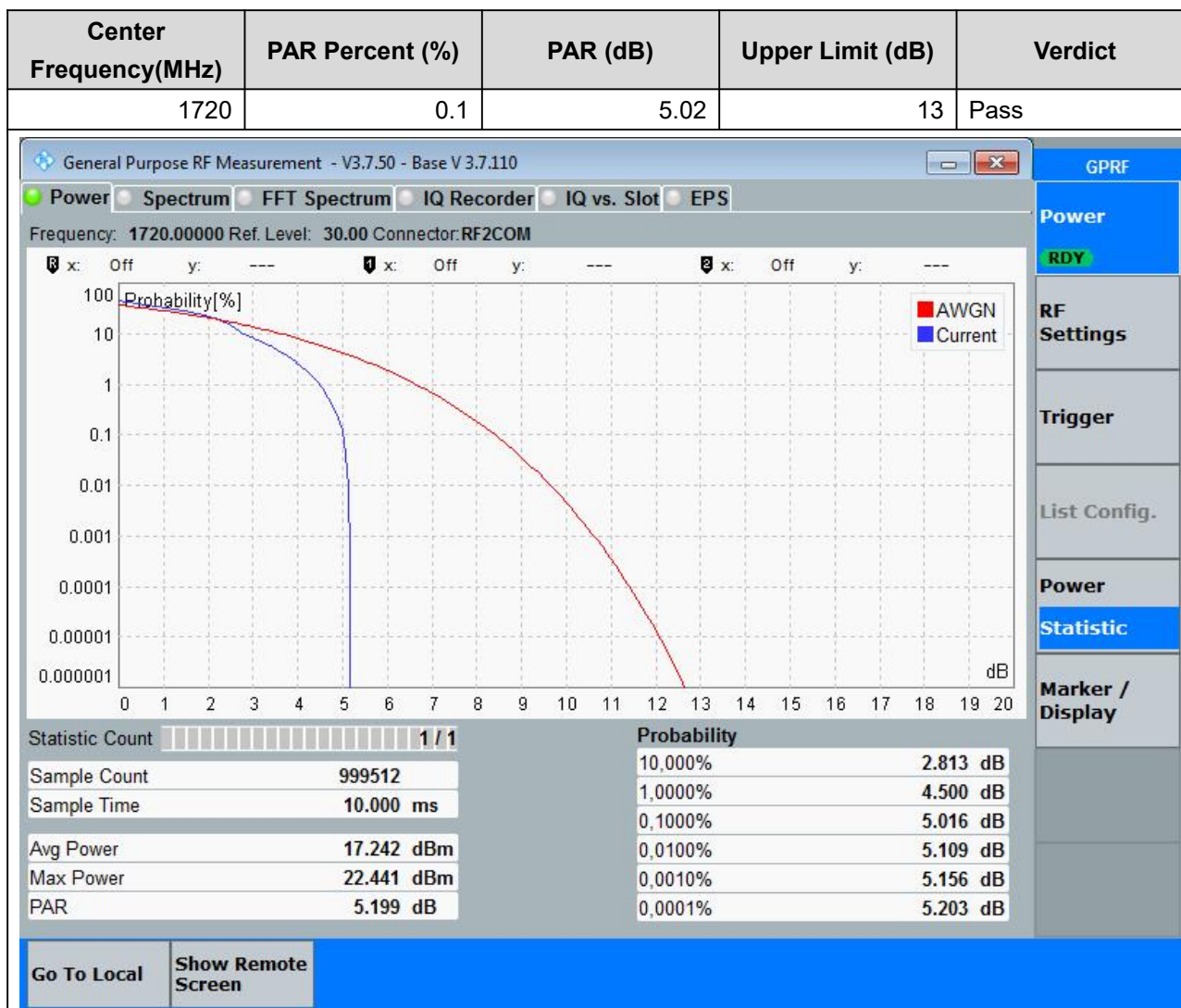
2.1 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:1, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



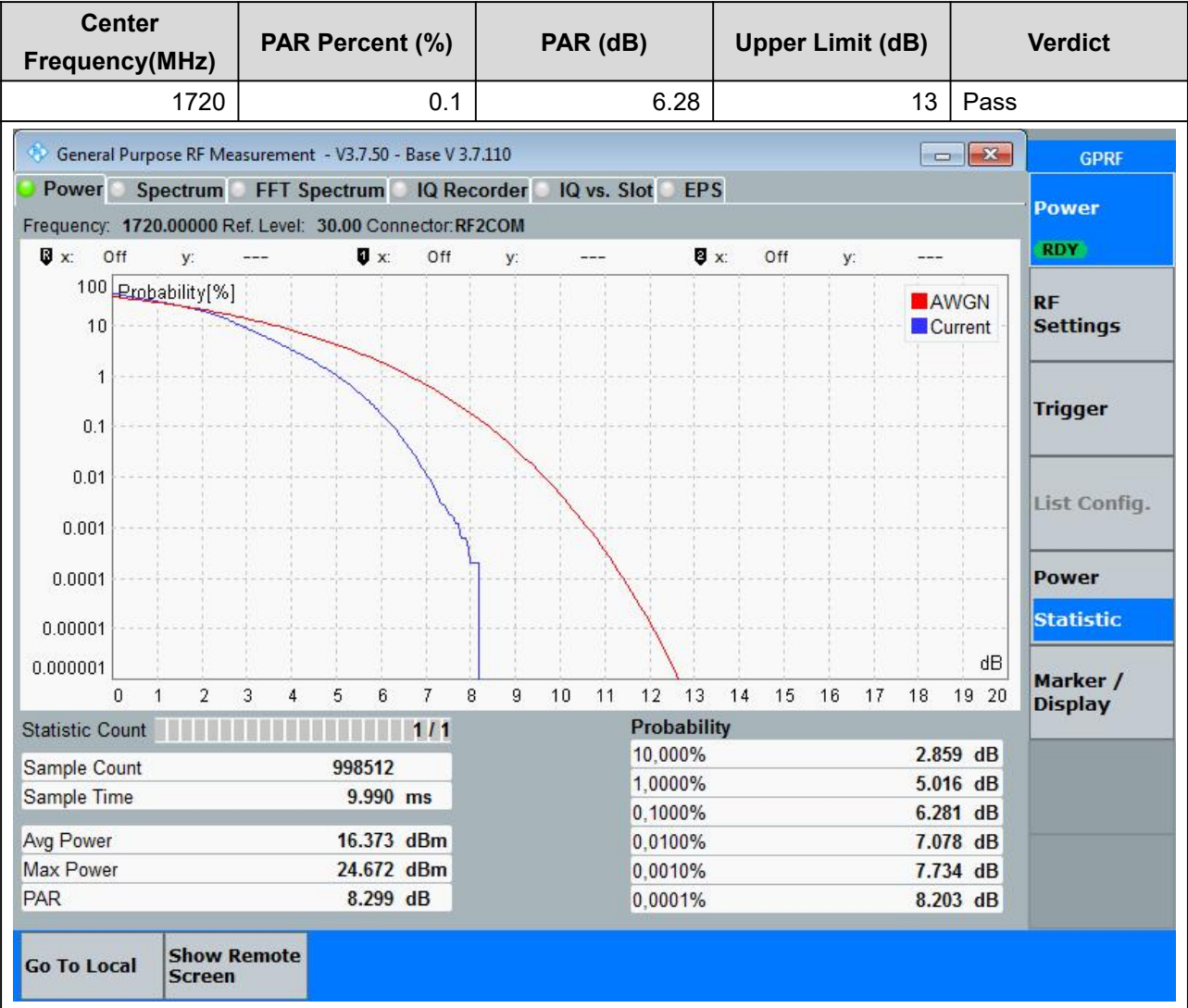
2.2 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:2, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



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



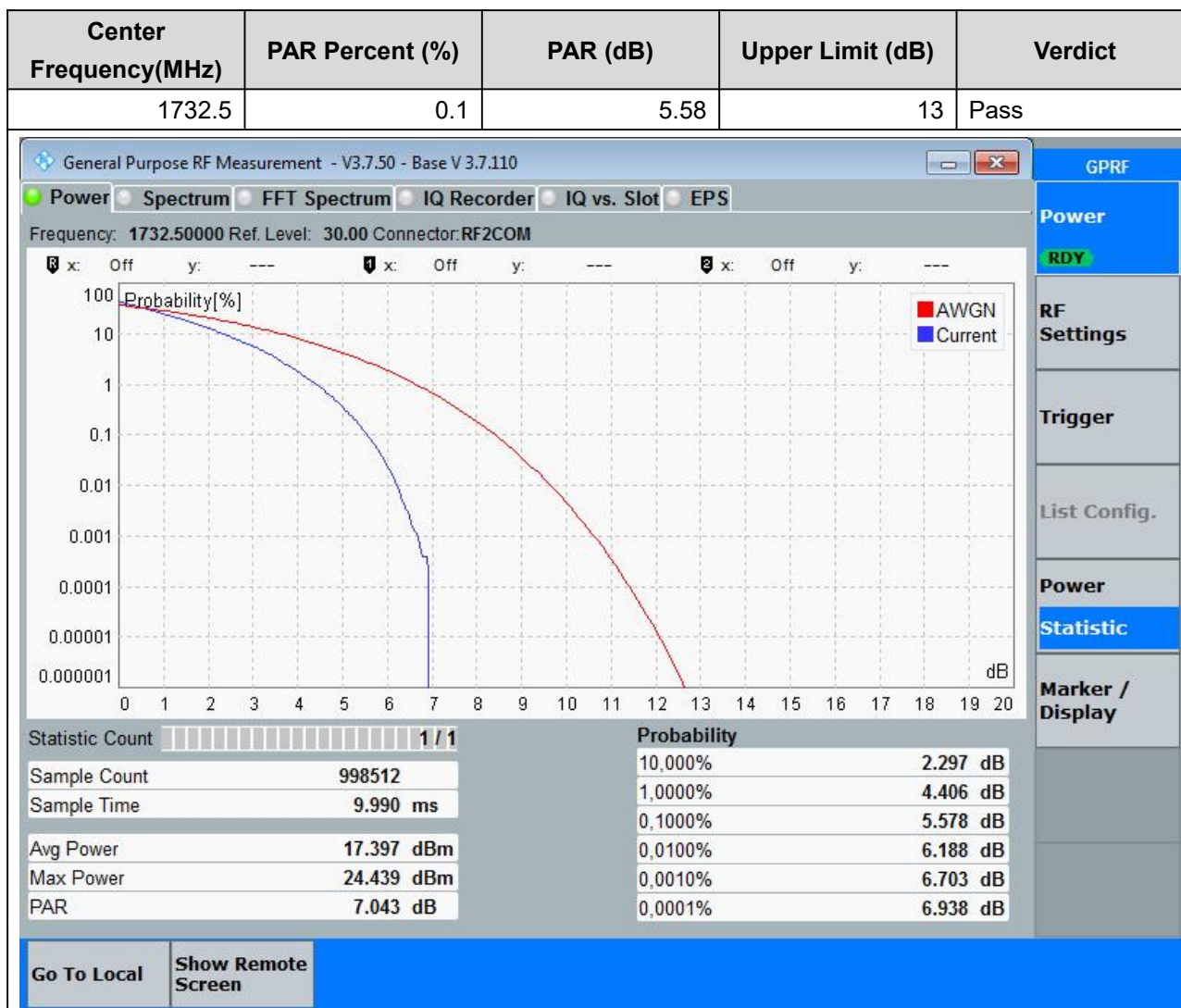
2.4 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:4, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



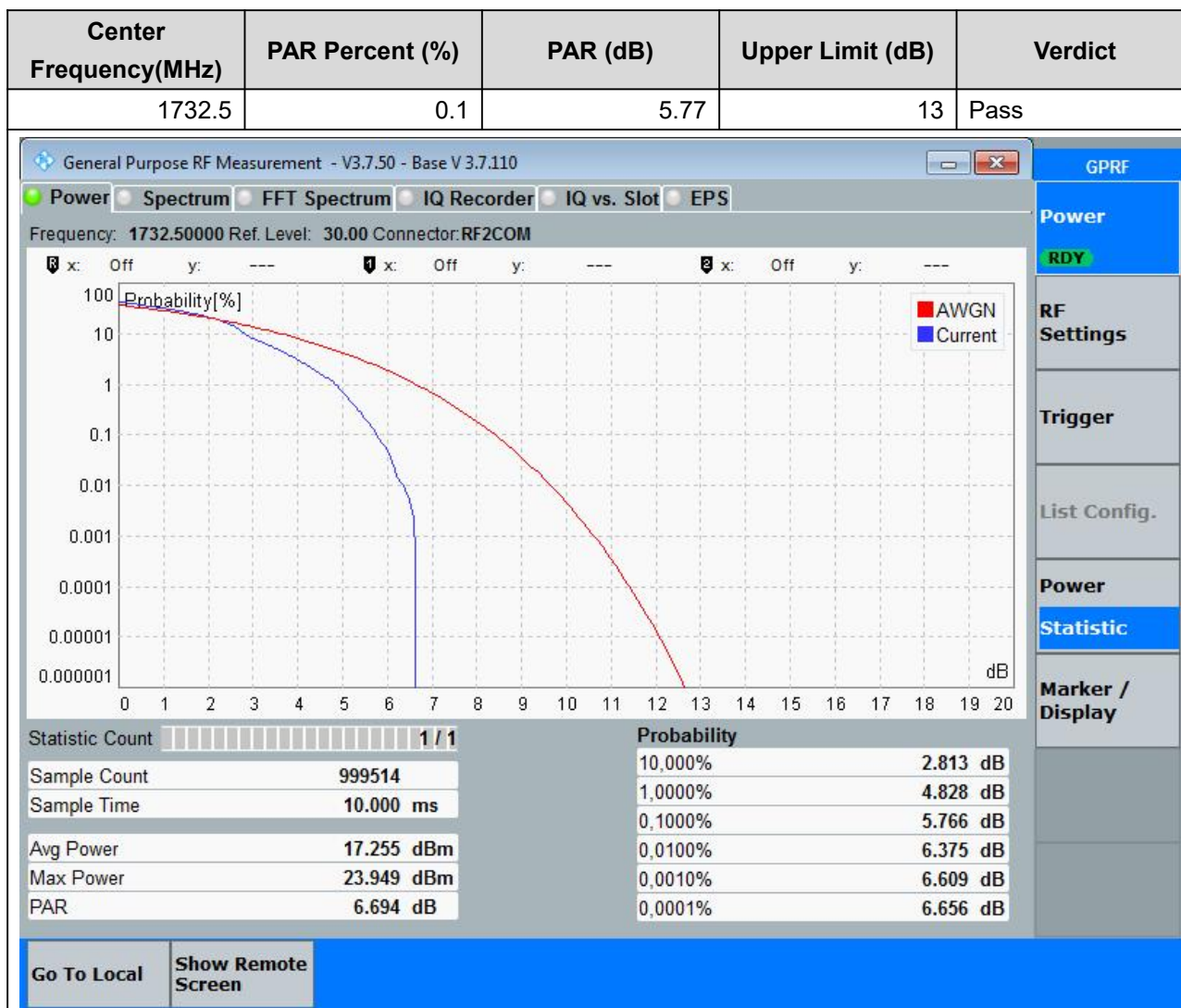
2.5 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:5, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



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



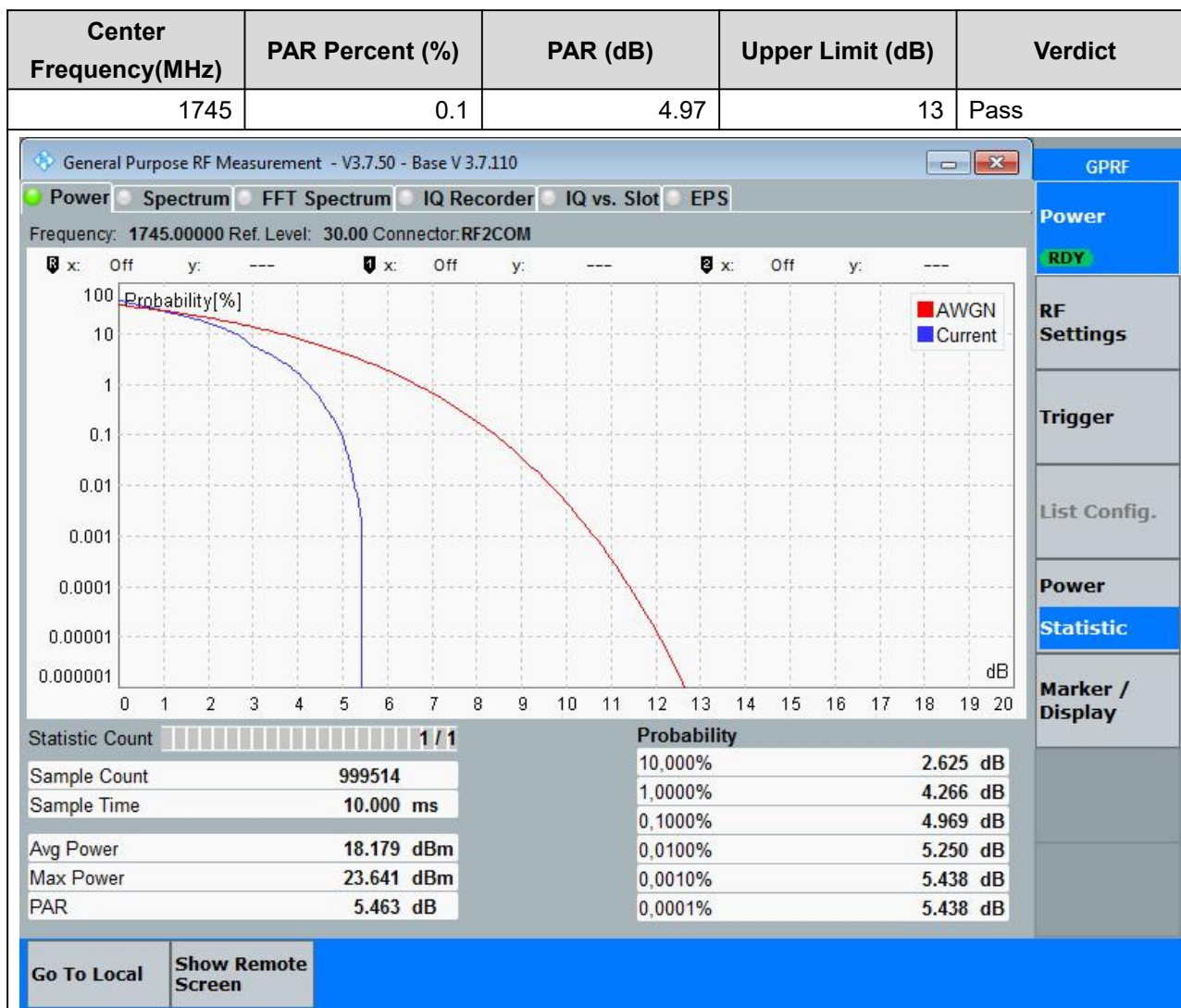
2.7 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:7, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



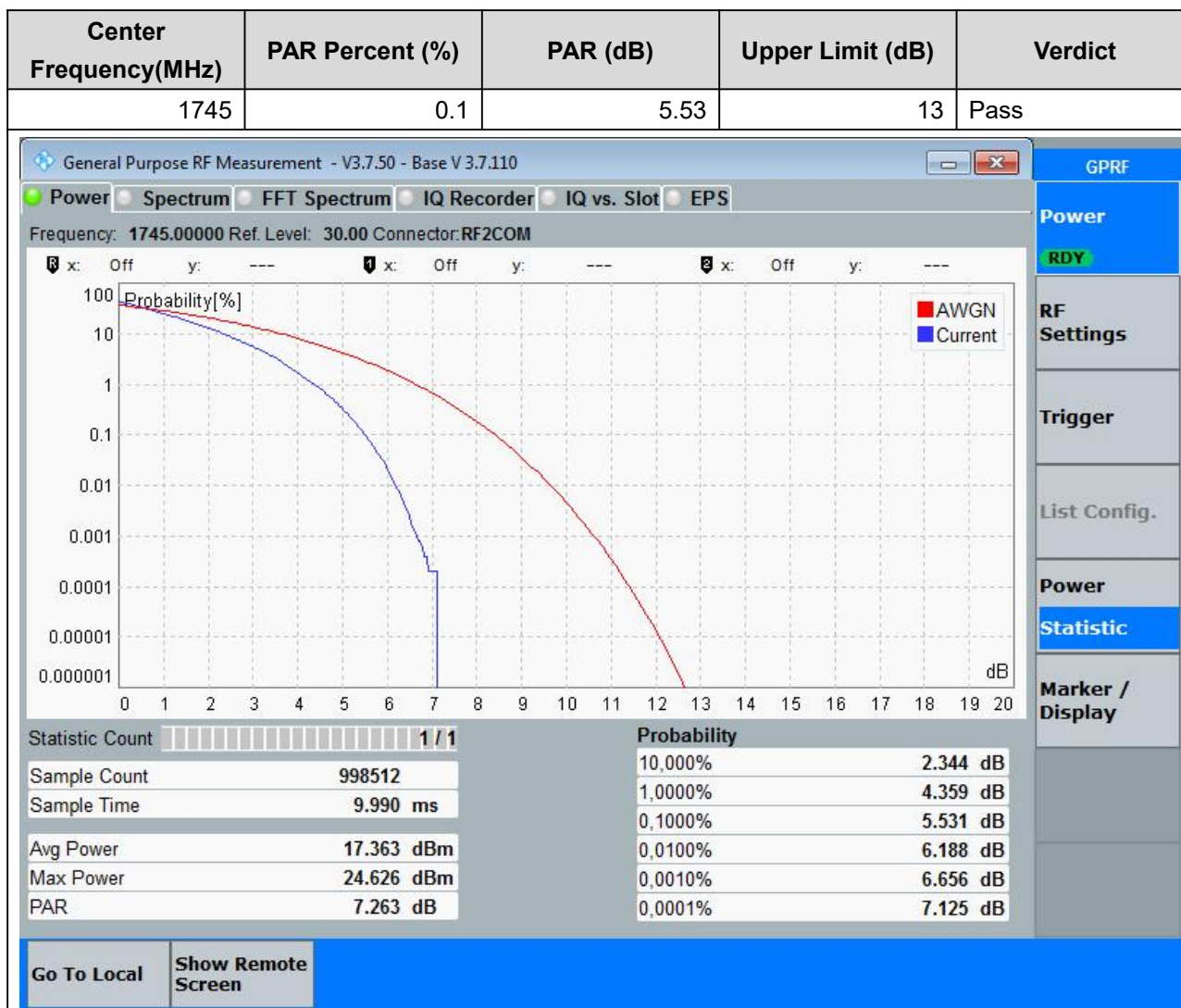
2.8 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:8, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



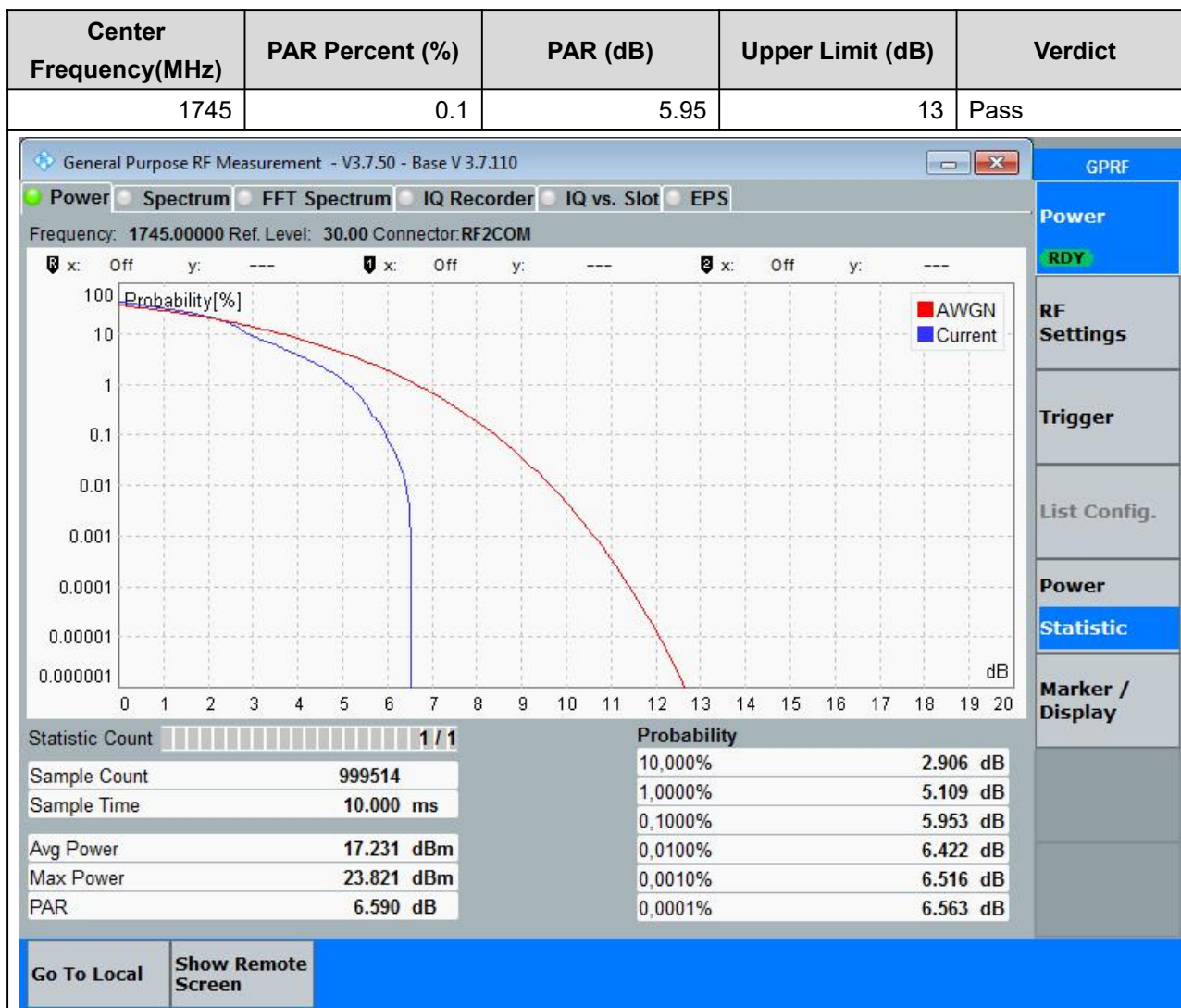
2.9 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:9, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



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



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

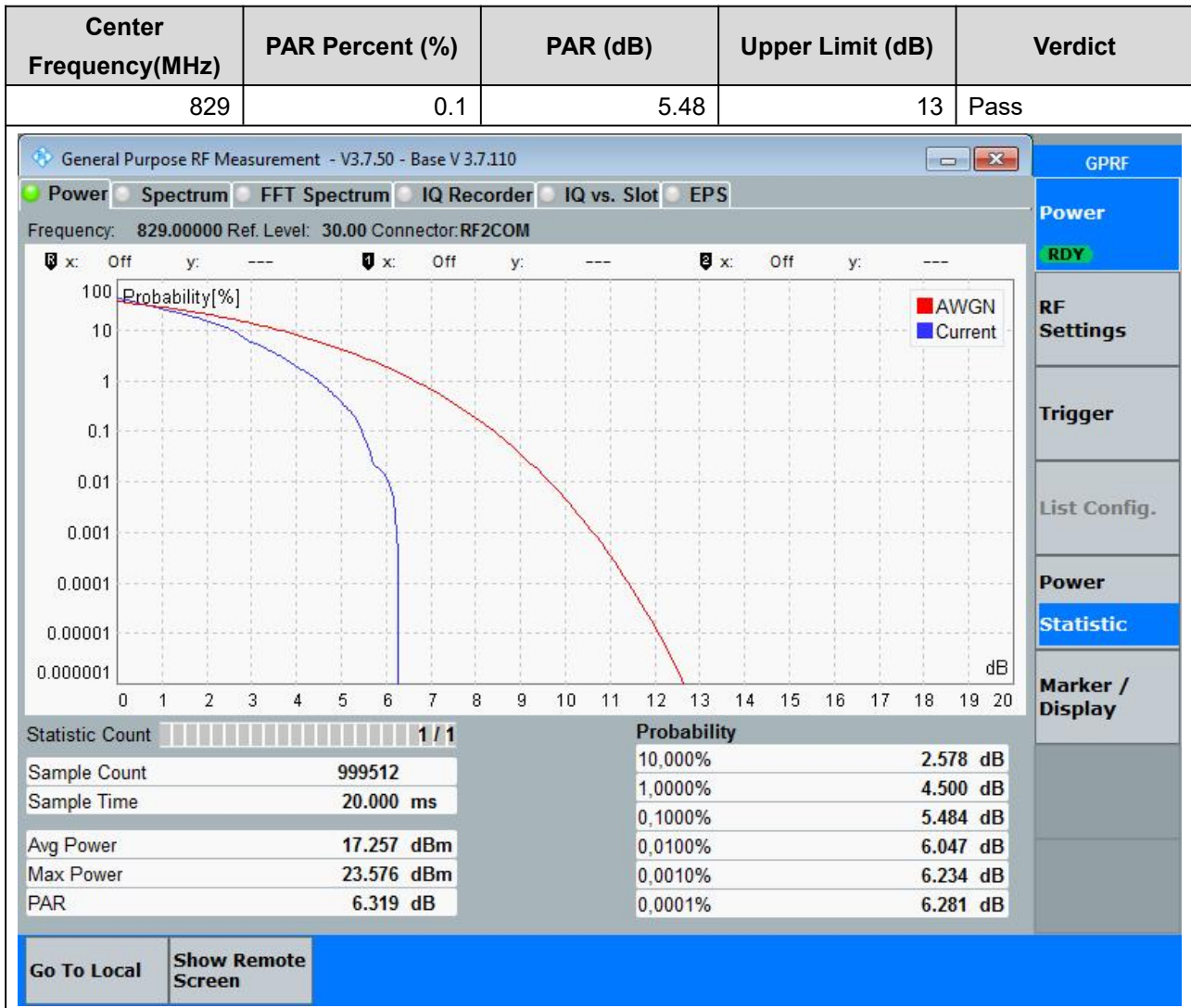


2.12 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:12, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

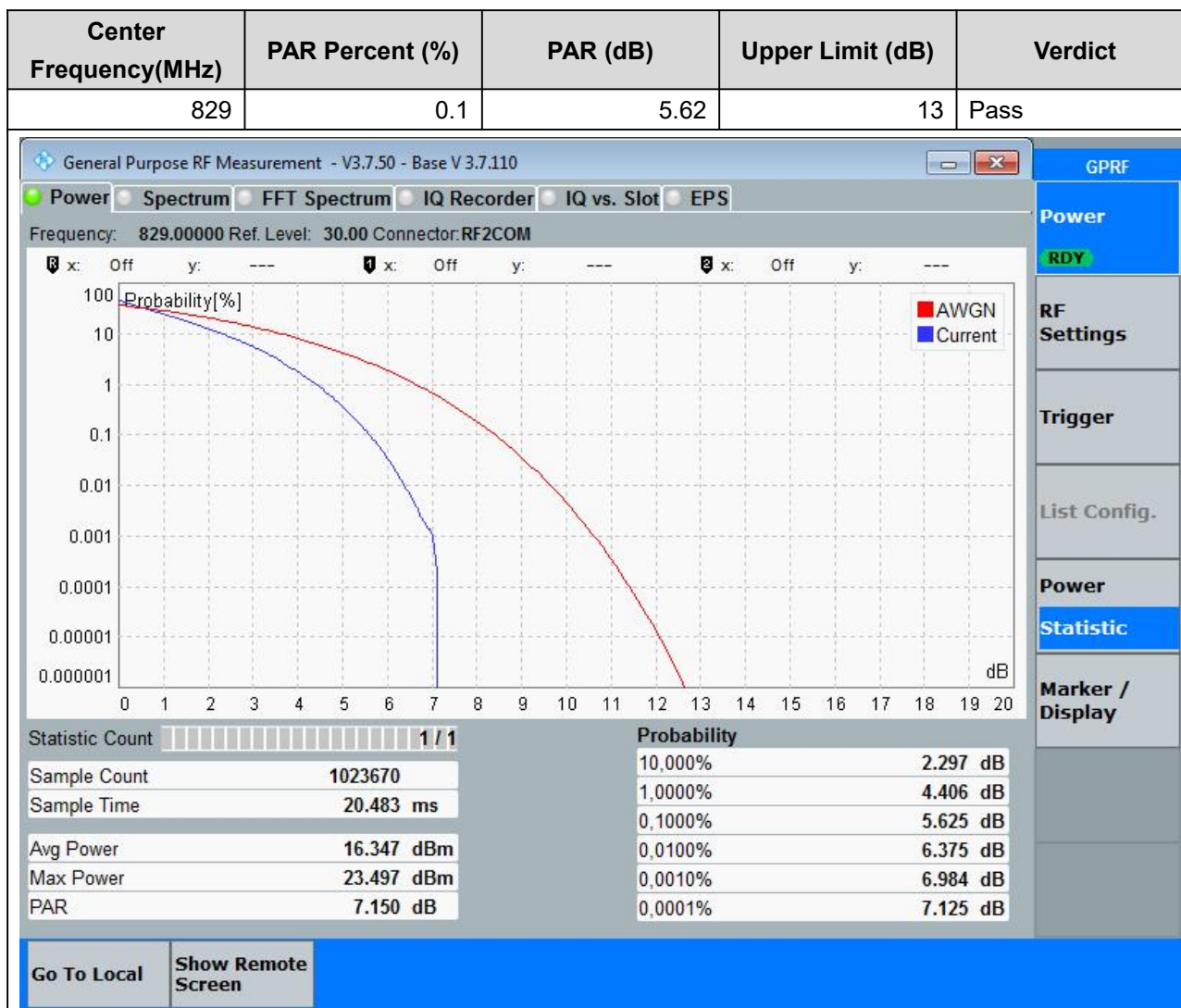


3. LTE_Band5

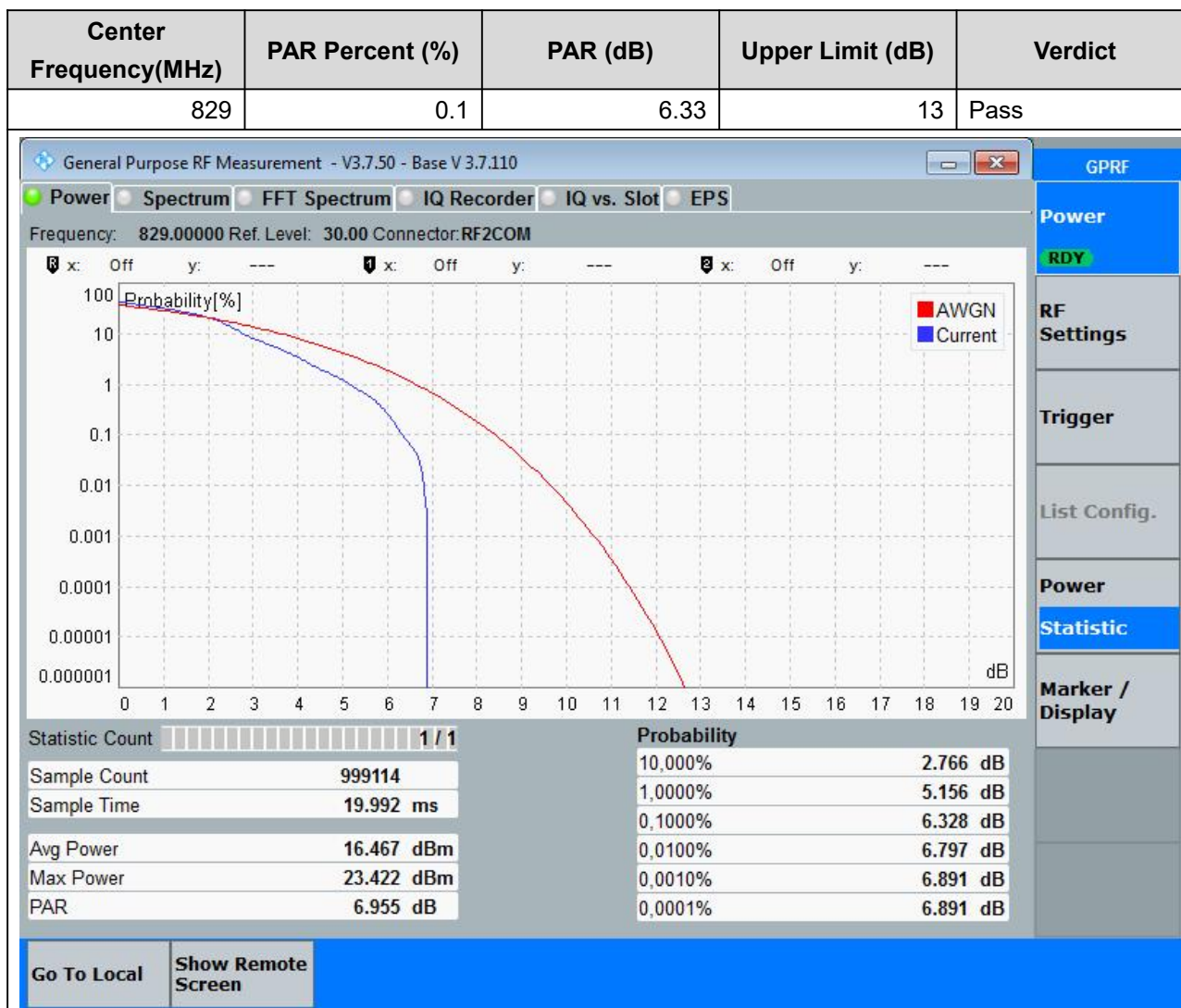
3.1 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:1, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



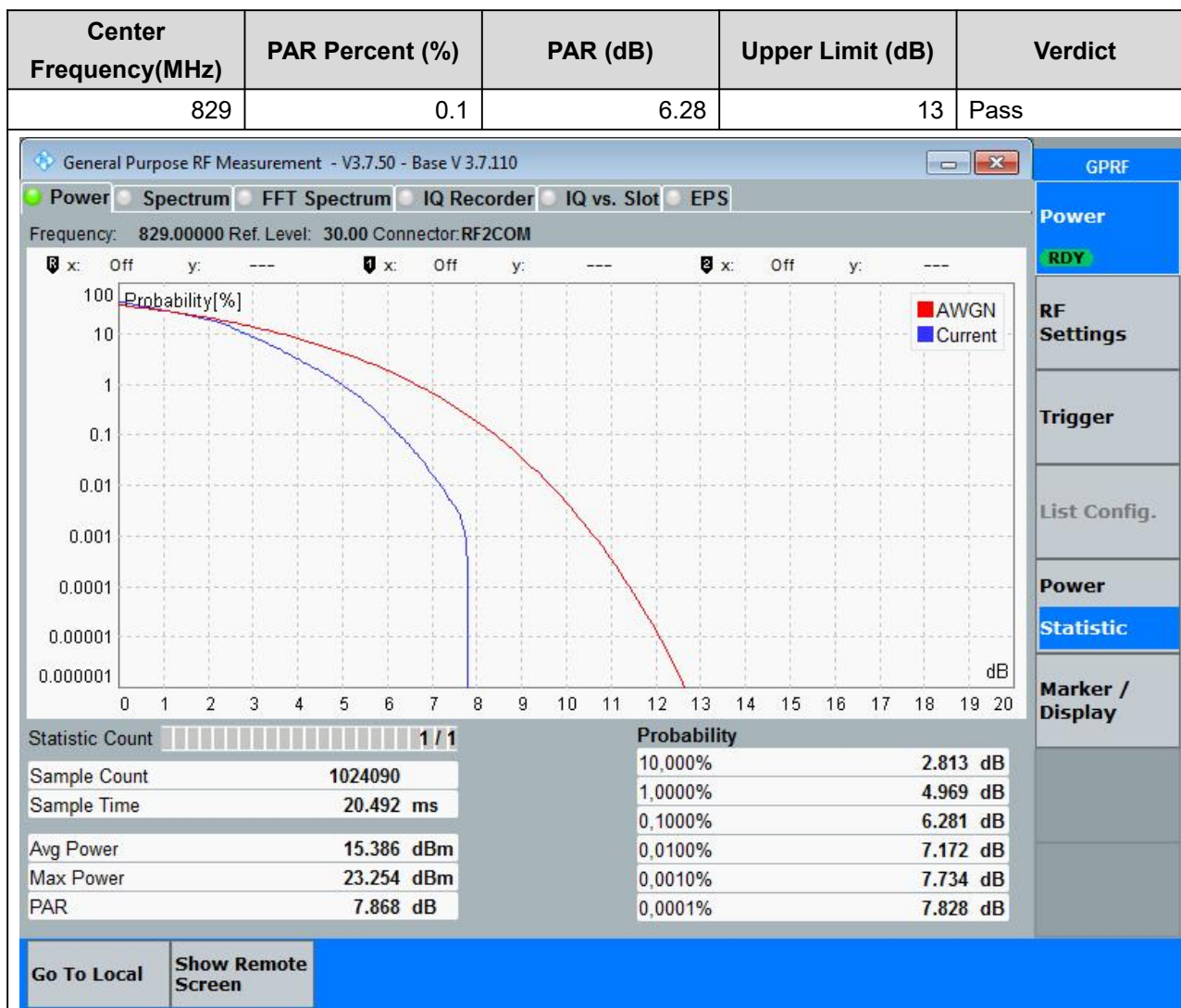
3.2 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:2, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



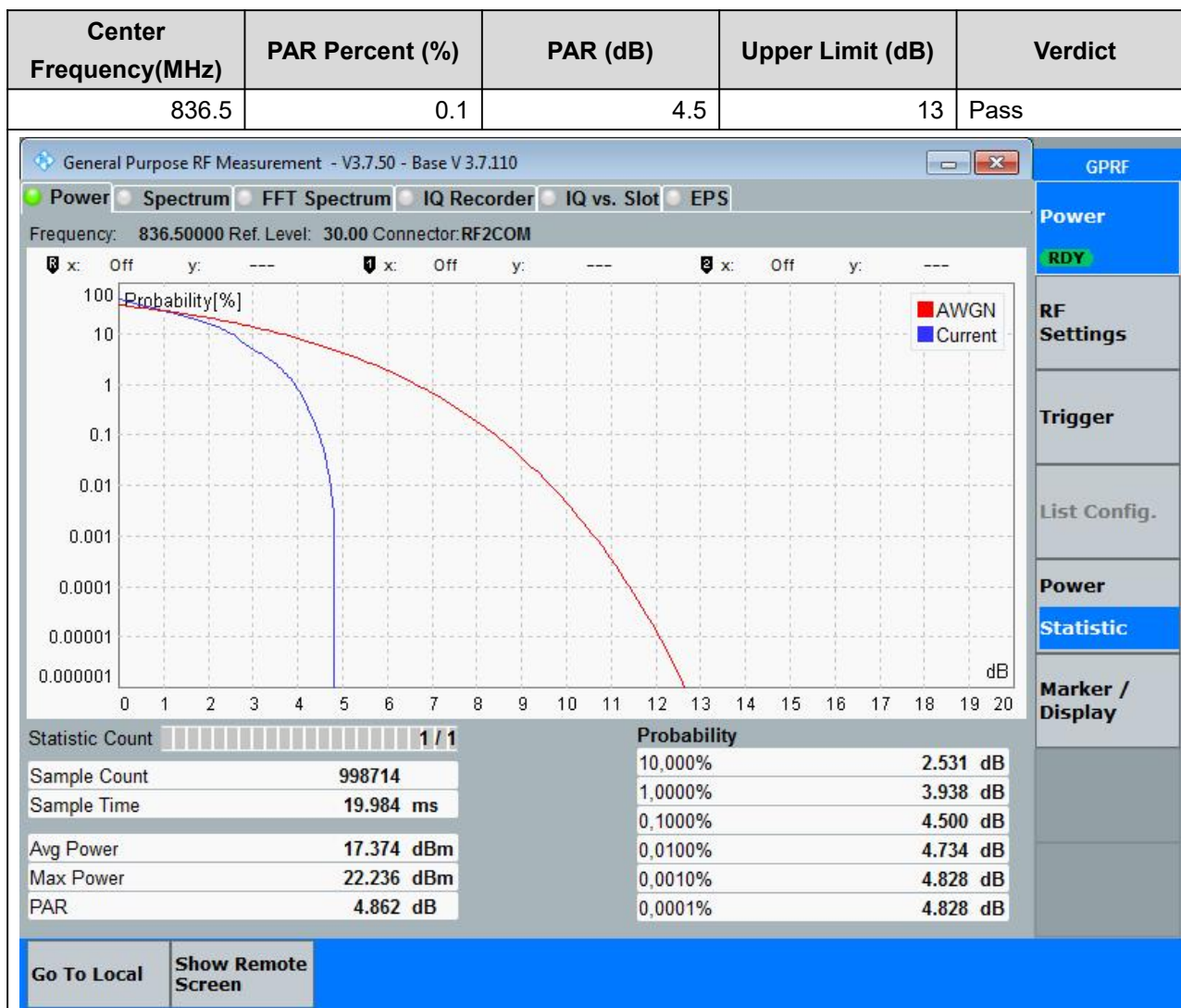
3.3 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:3, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



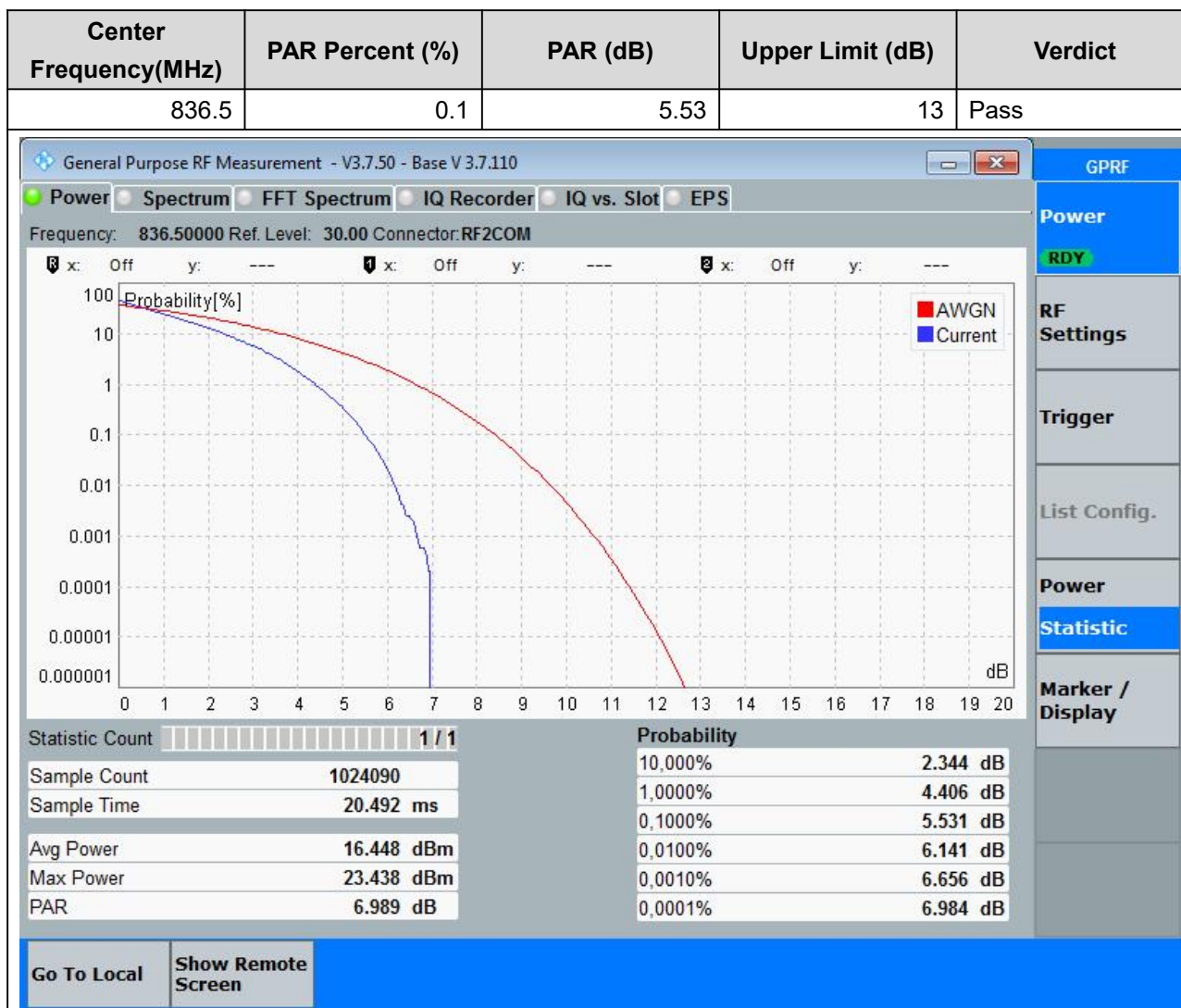
3.4 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:4, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



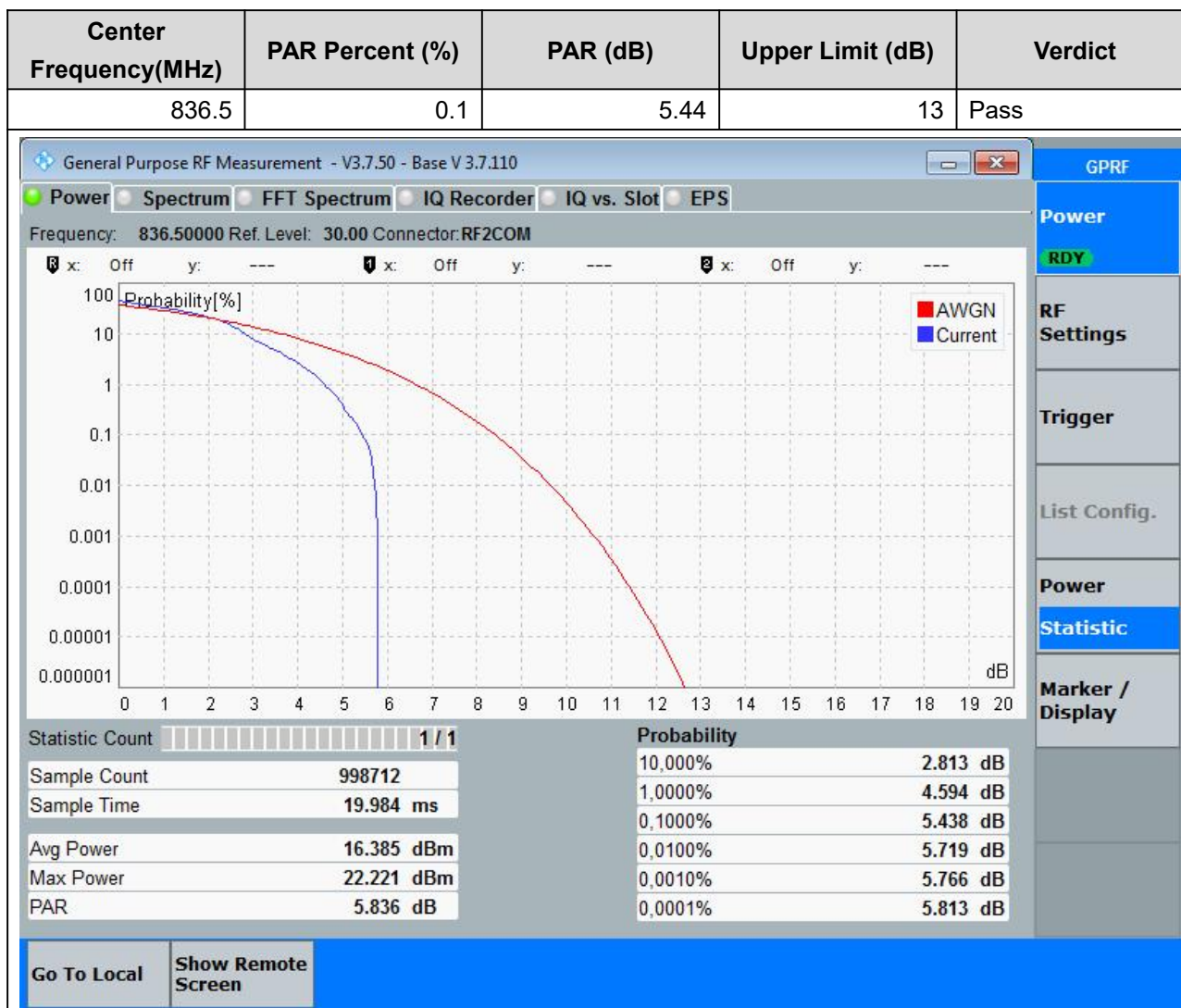
3.5 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:5, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



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



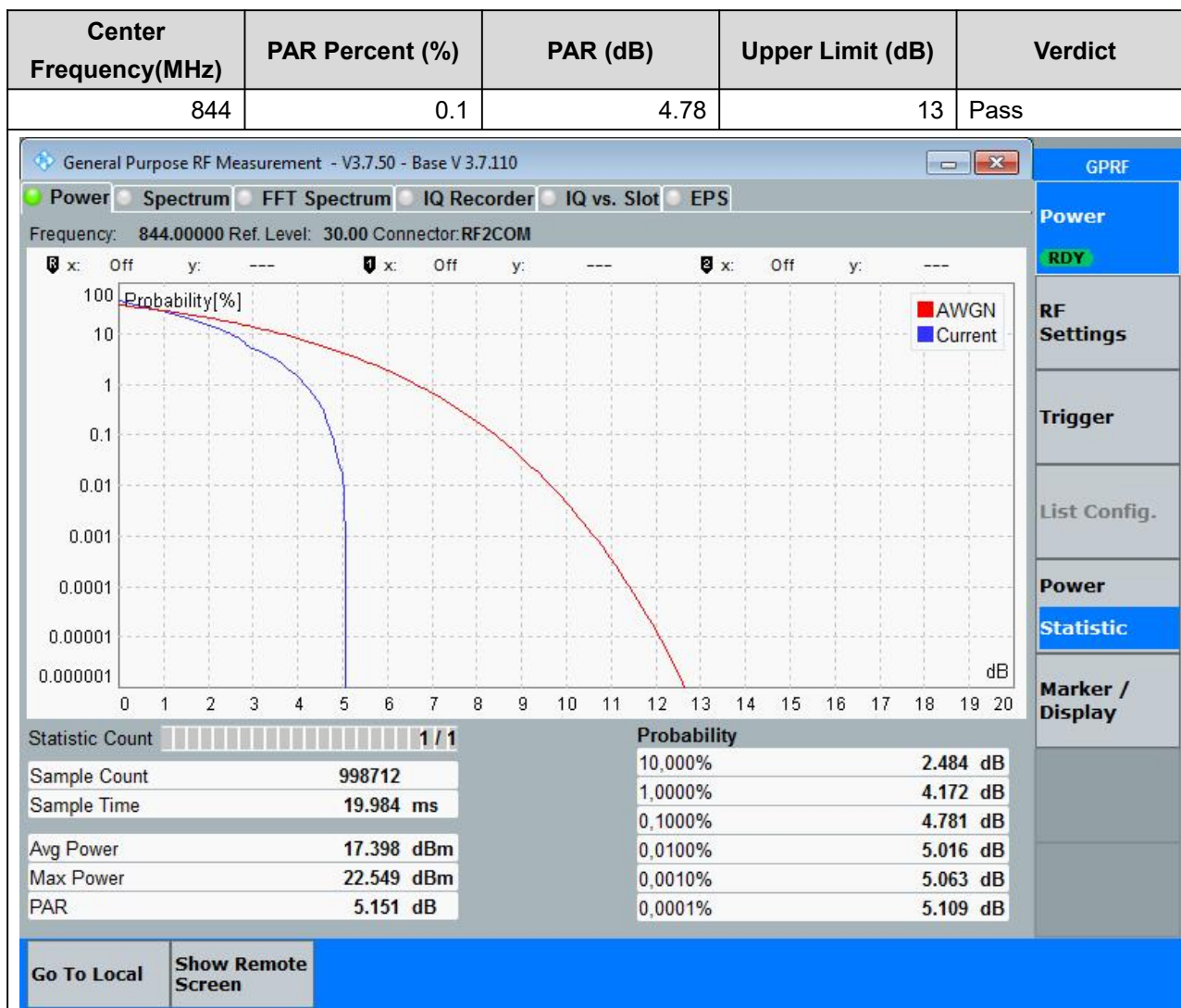
3.7 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:7, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



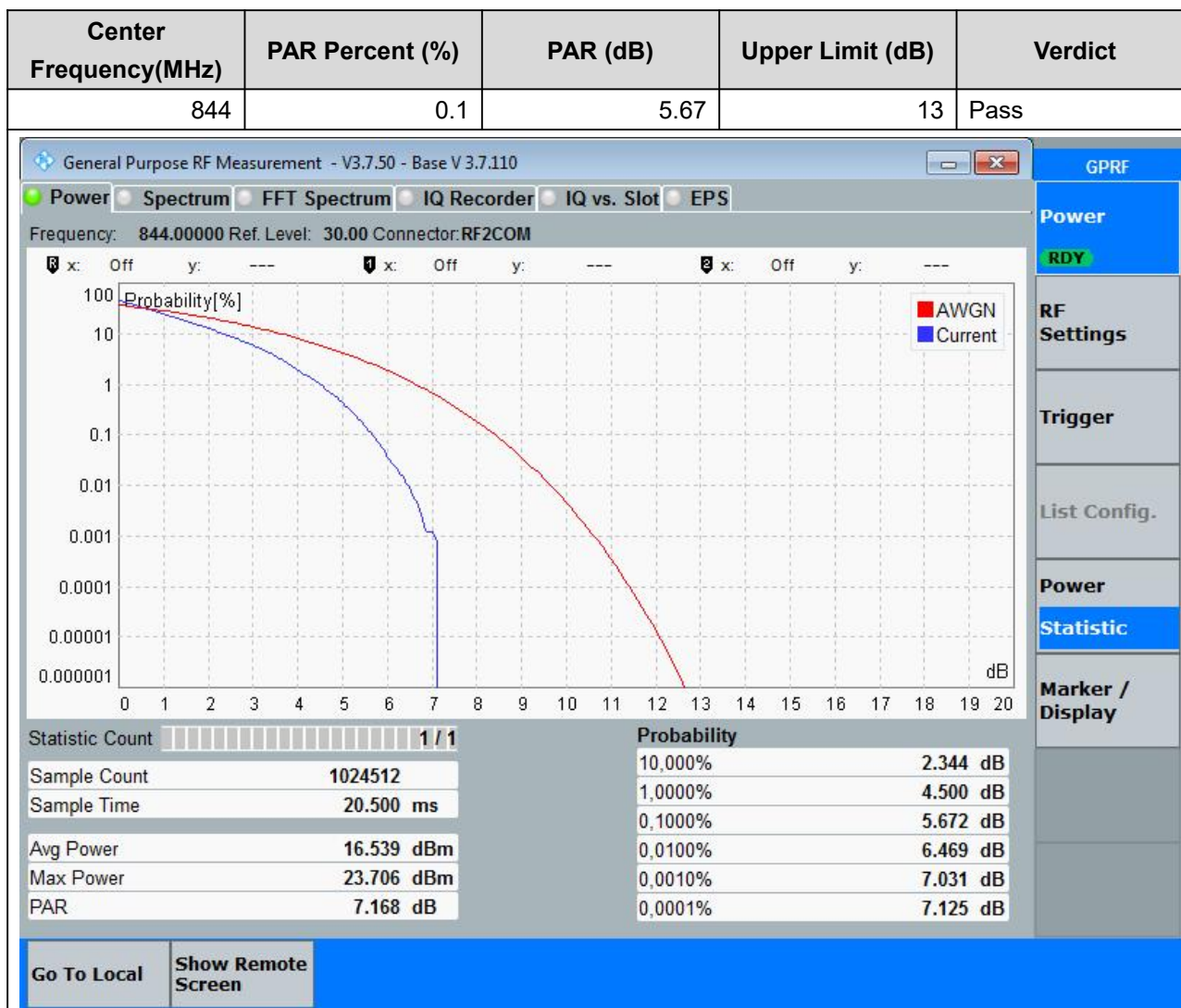
3.8 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:8, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



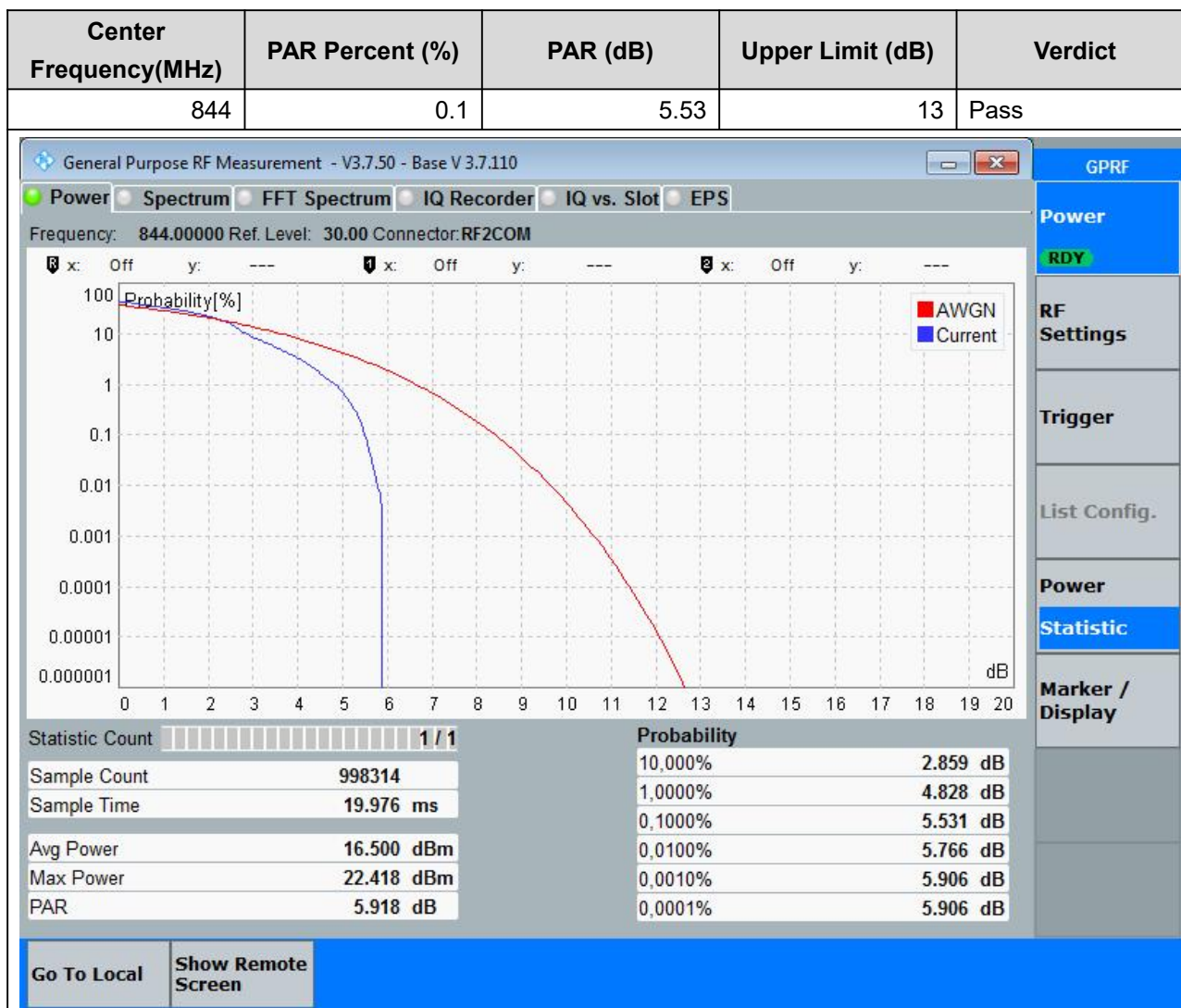
3.9 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:9, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



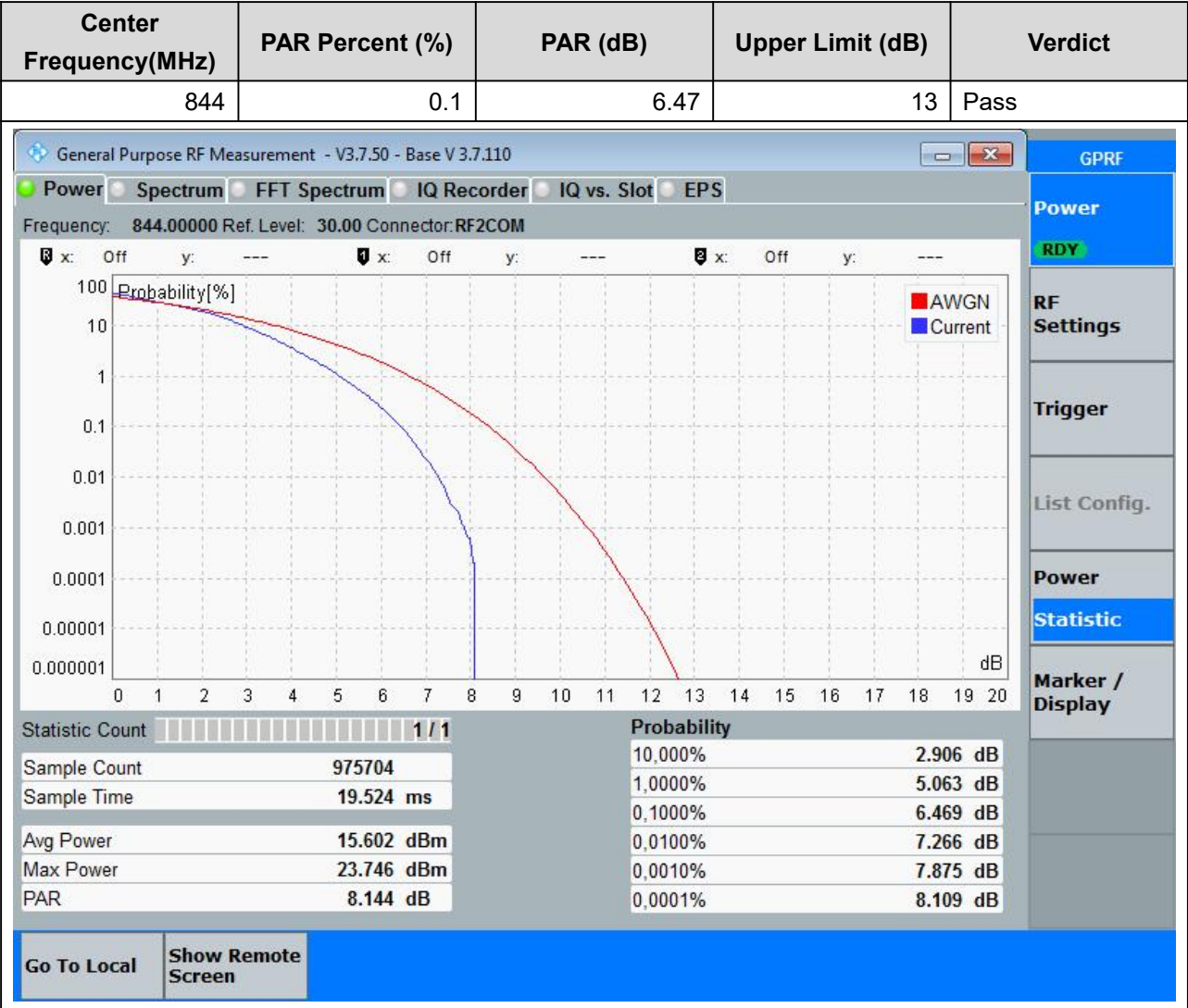
3.10 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:10, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



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



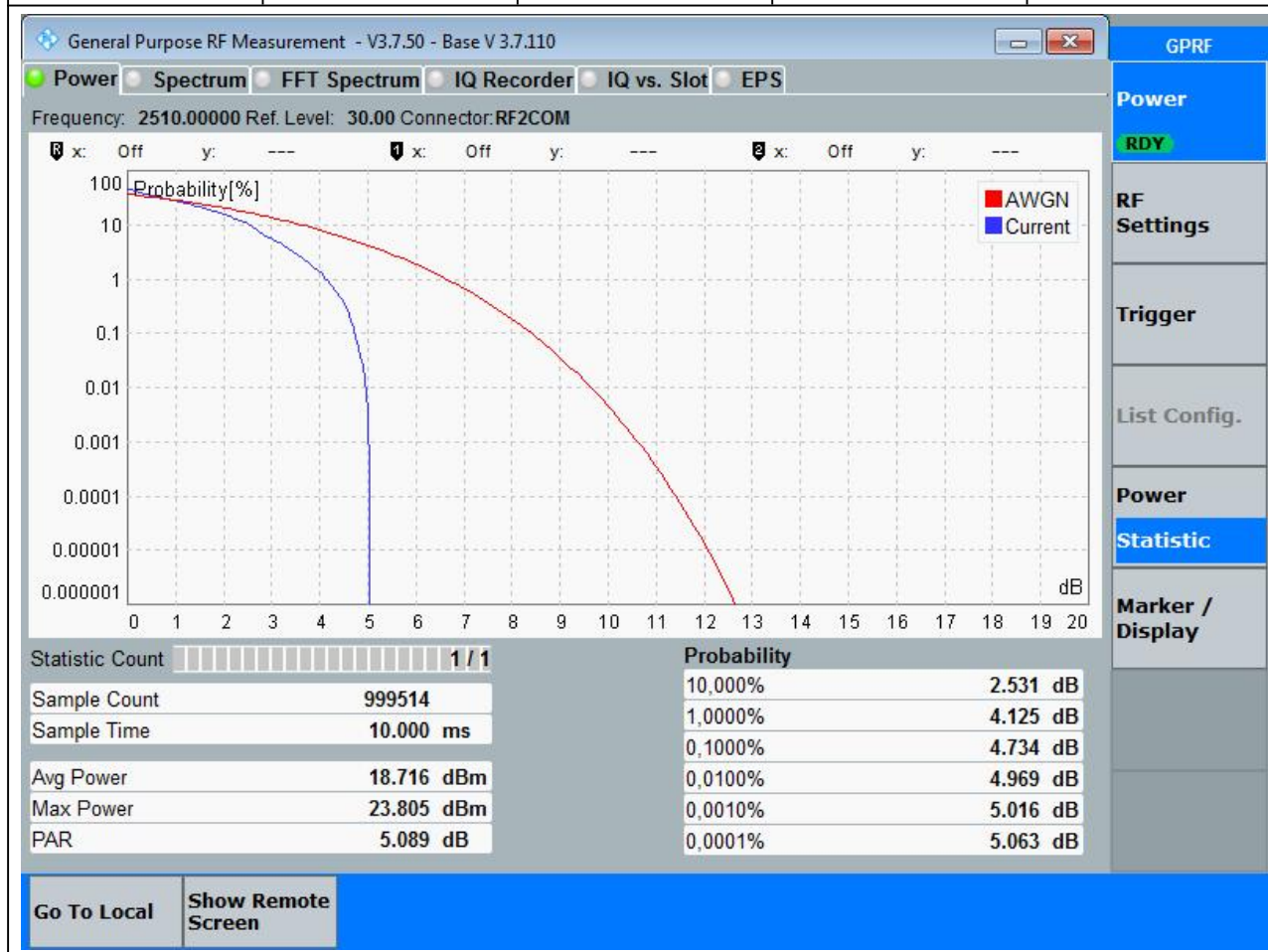
3.12 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:12, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



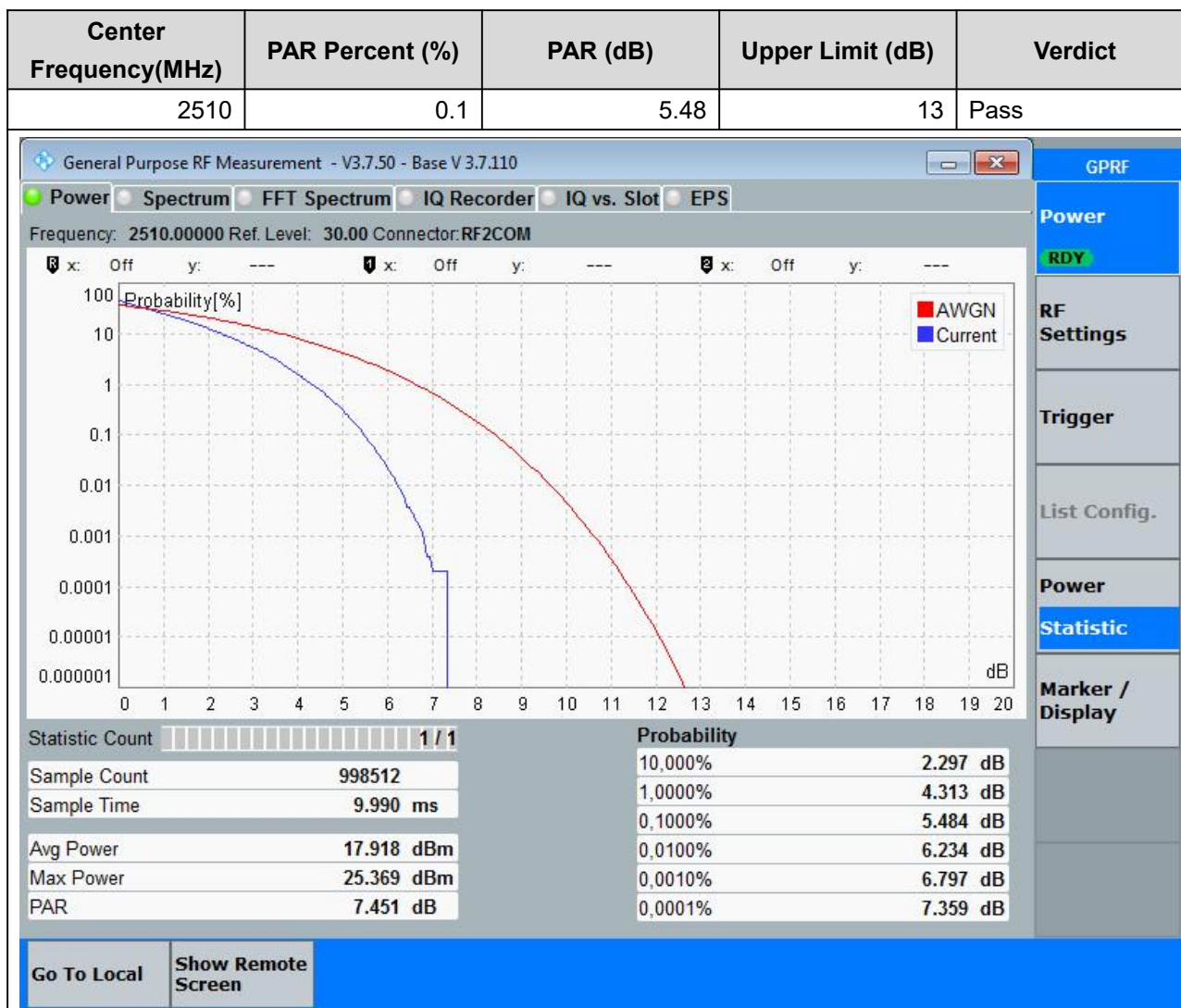
4. LTE_Band7

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

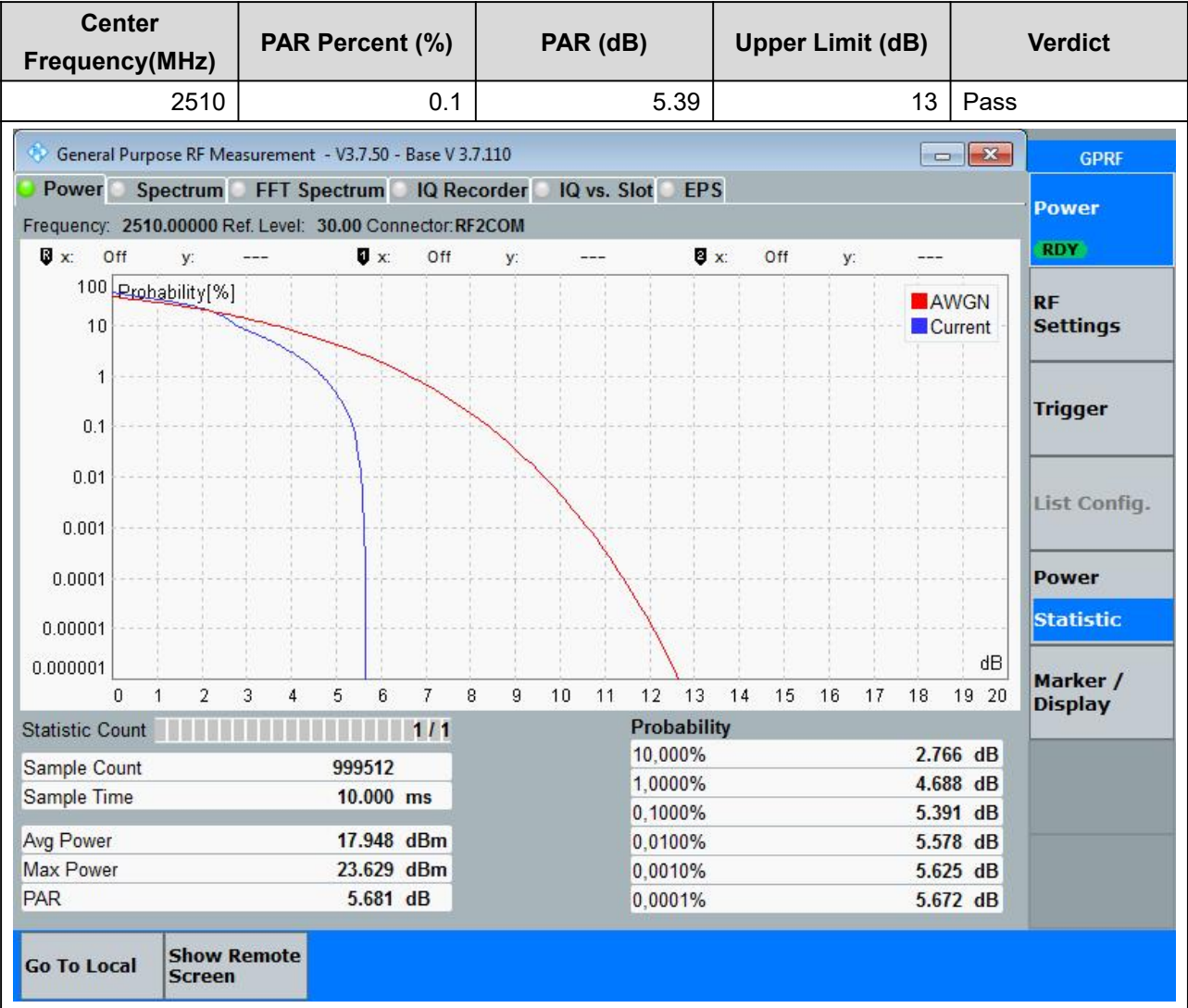
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	4.73	13	Pass



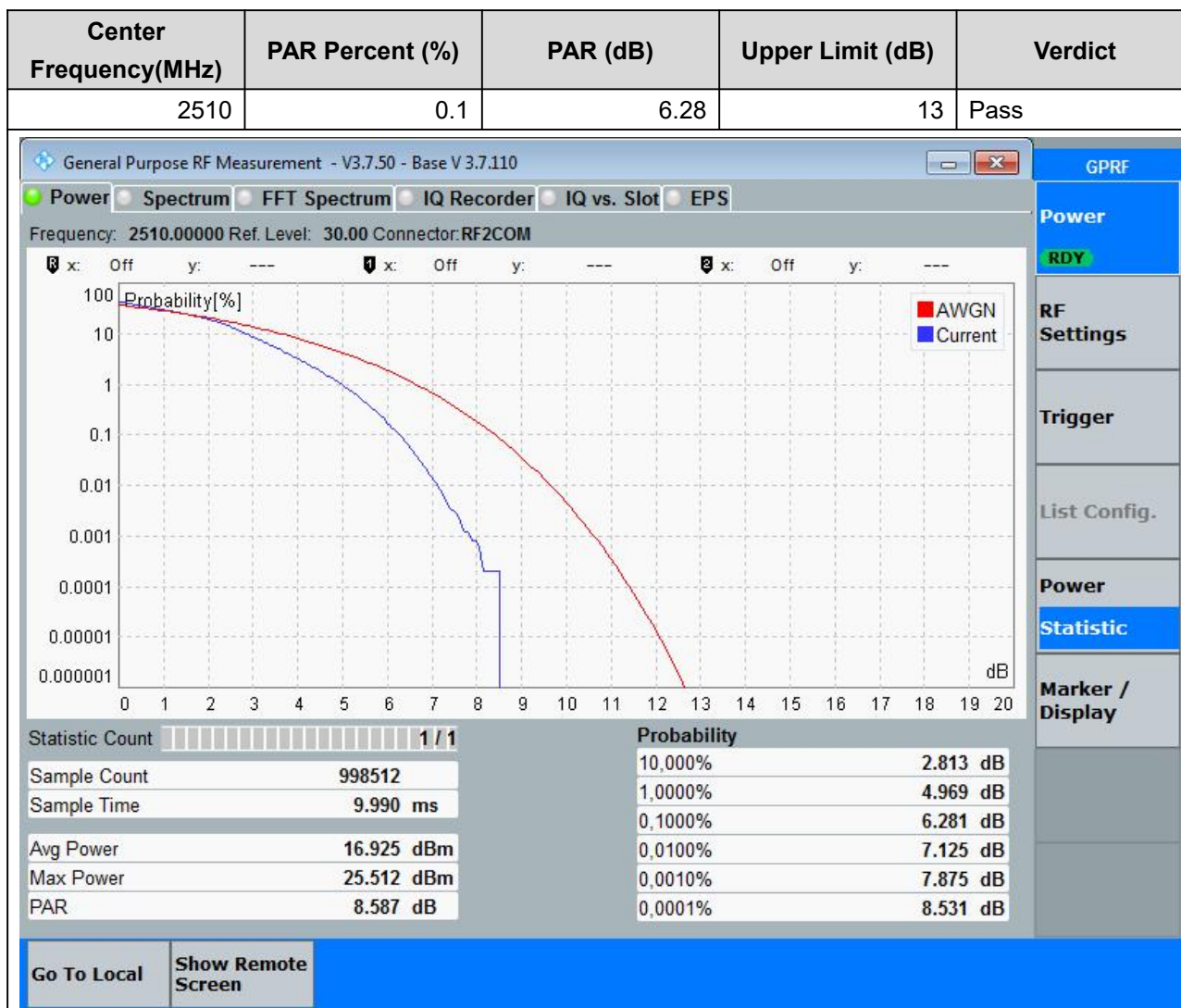
4.2 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:2, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



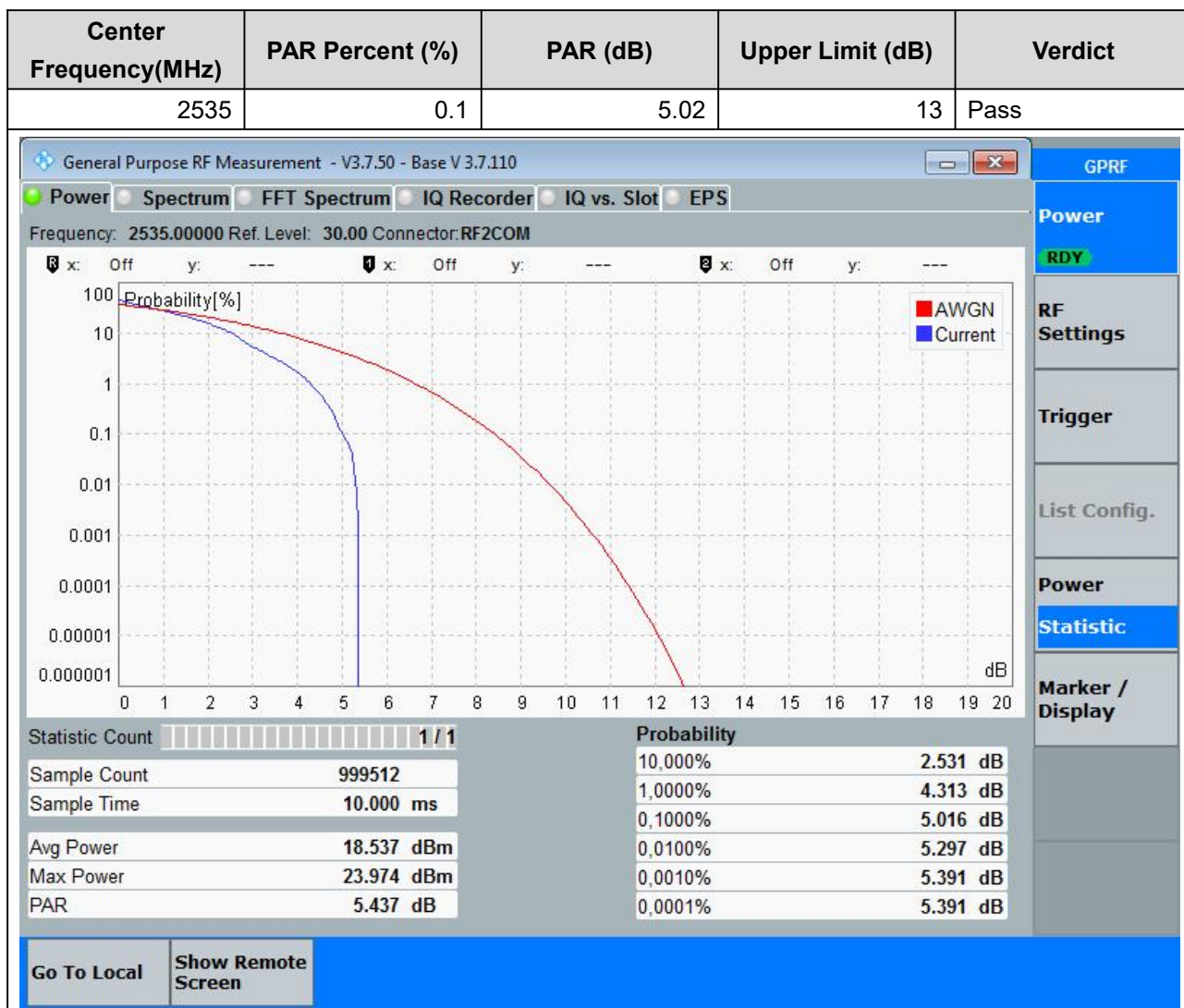
4.3 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:3, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



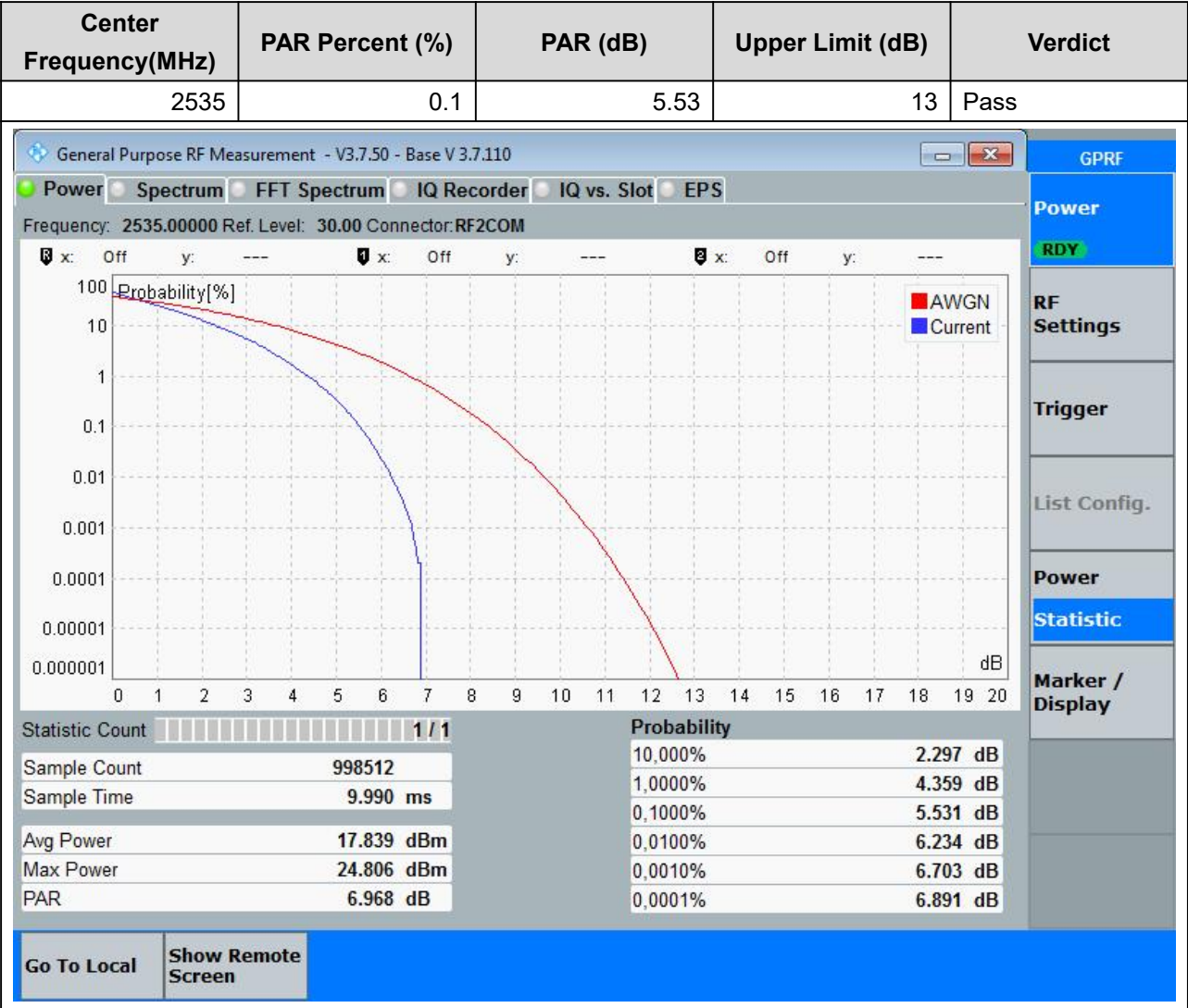
4.4 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:4, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



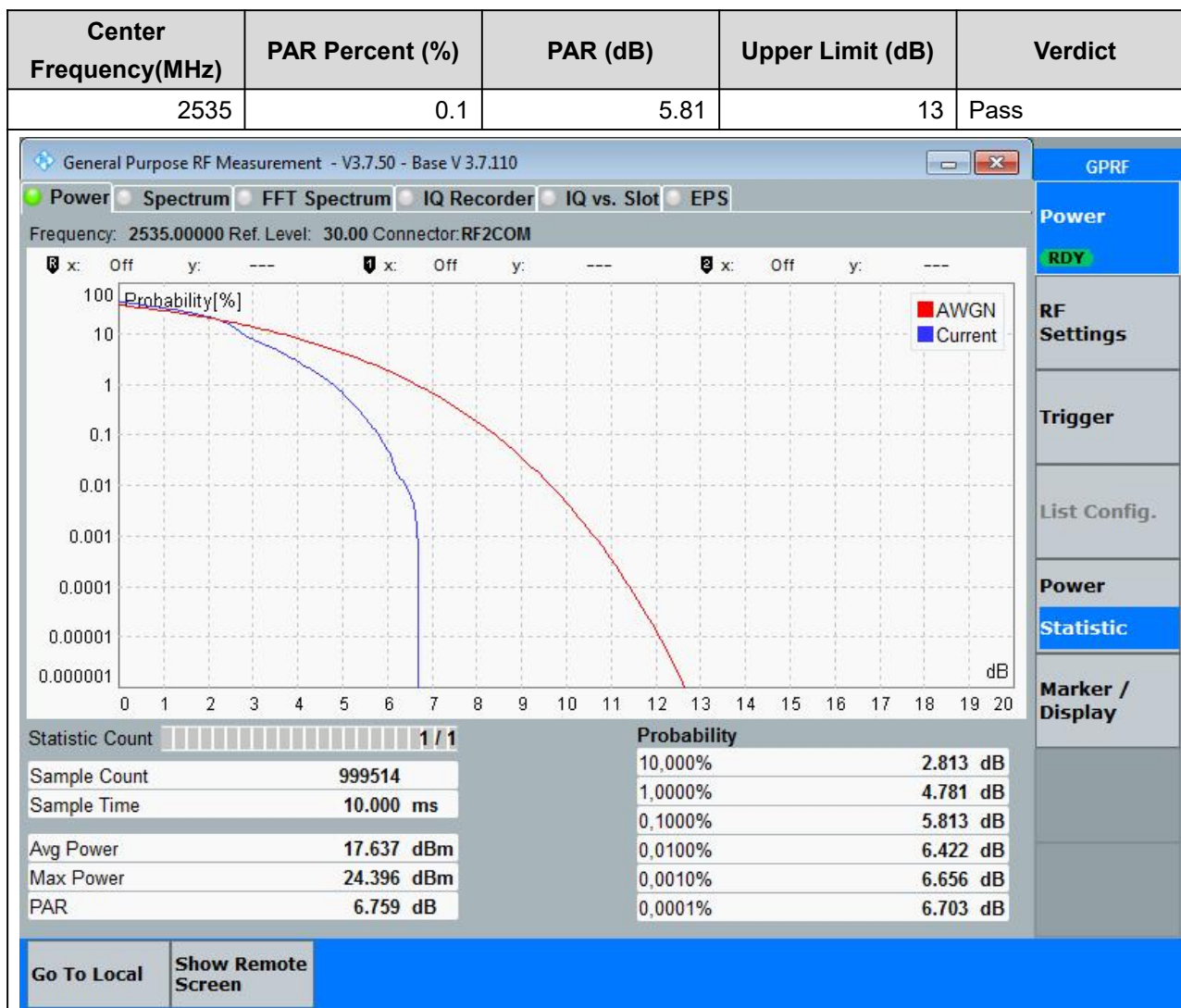
4.5 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:5, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



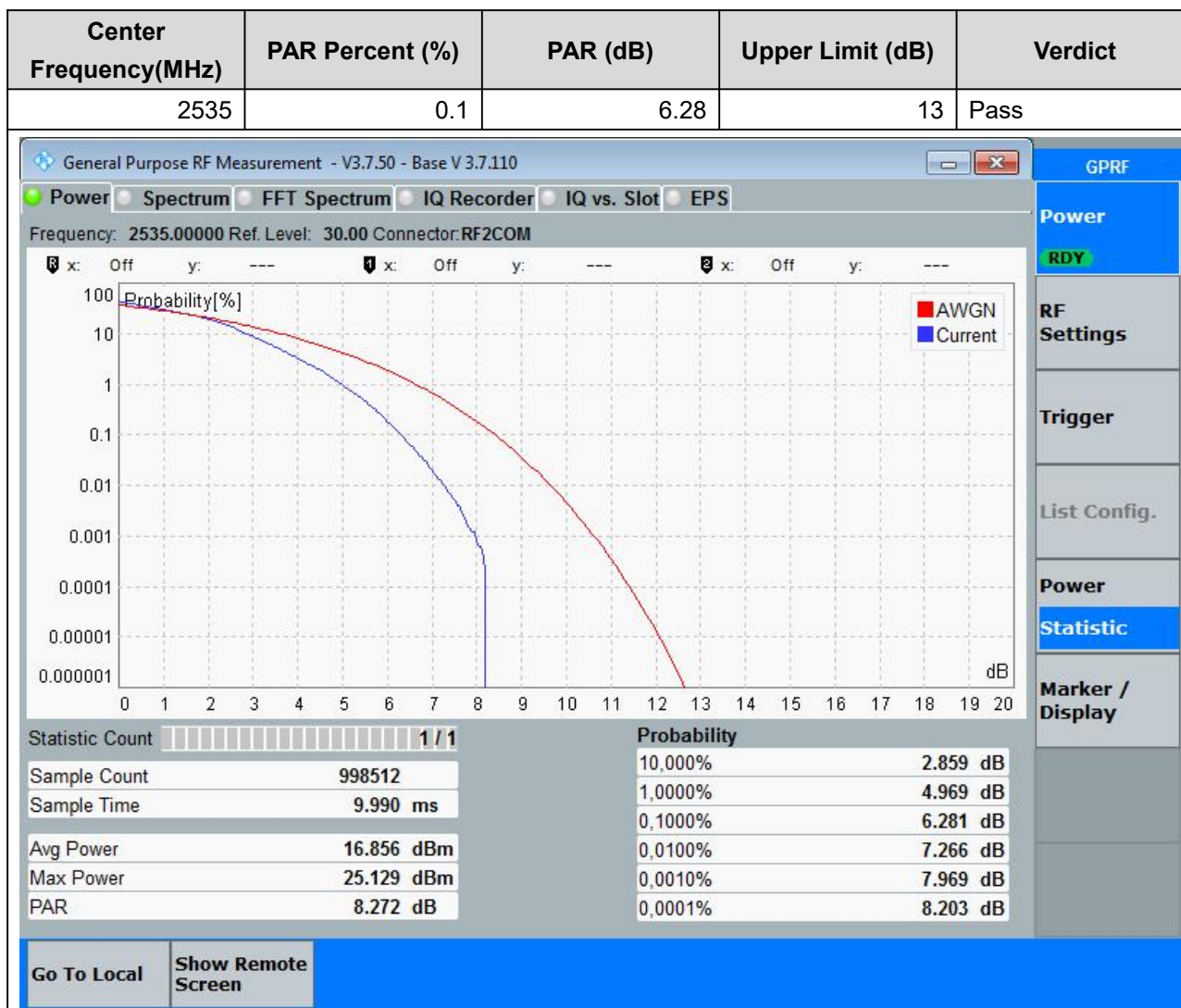
4.6 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:6, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



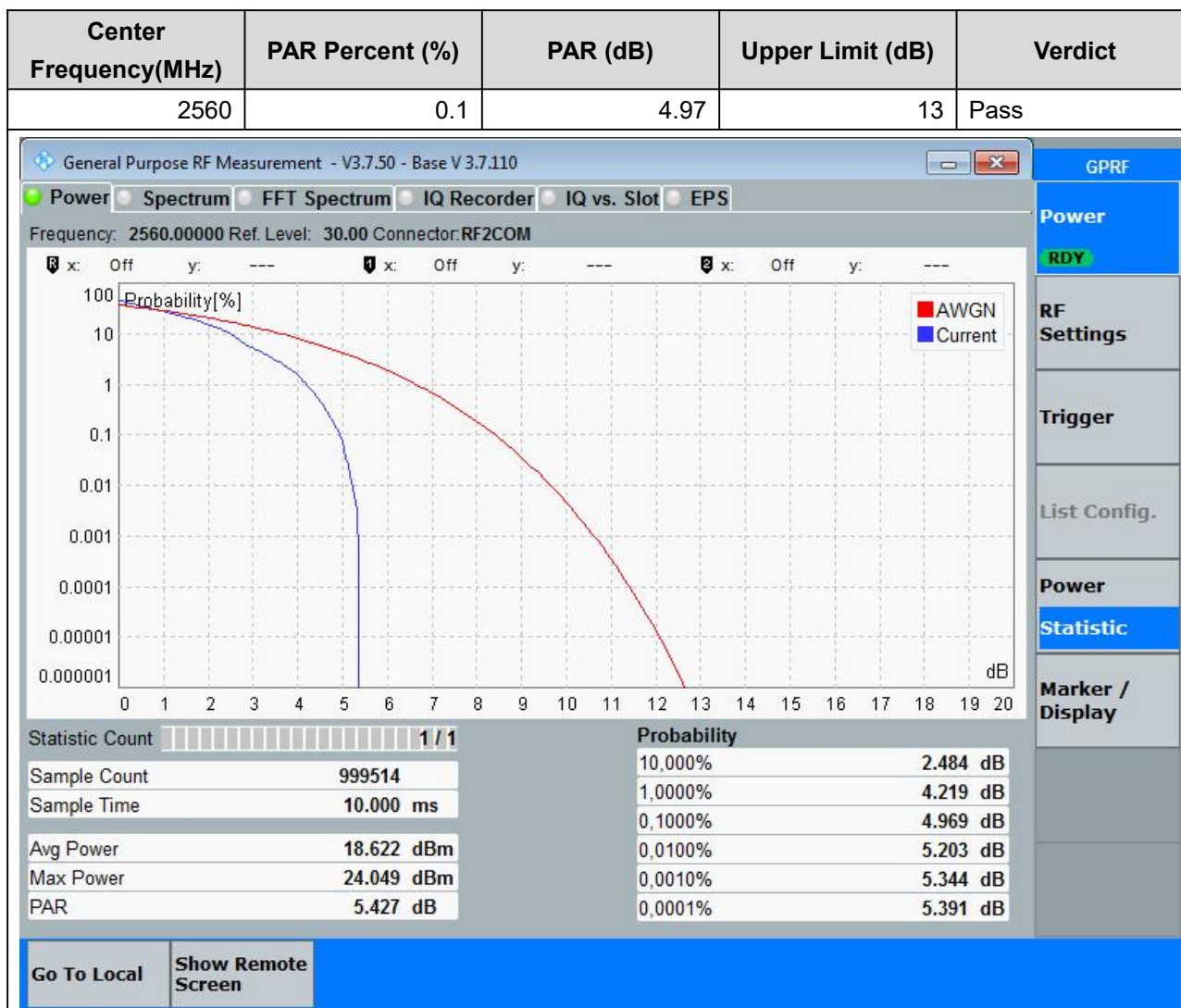
4.7 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:7, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



4.8 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:8, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



4.9 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:9, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



4.10 LTE Peak to Average Ratio_Part22-24-27(NTLV)(Subtest:10, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

