

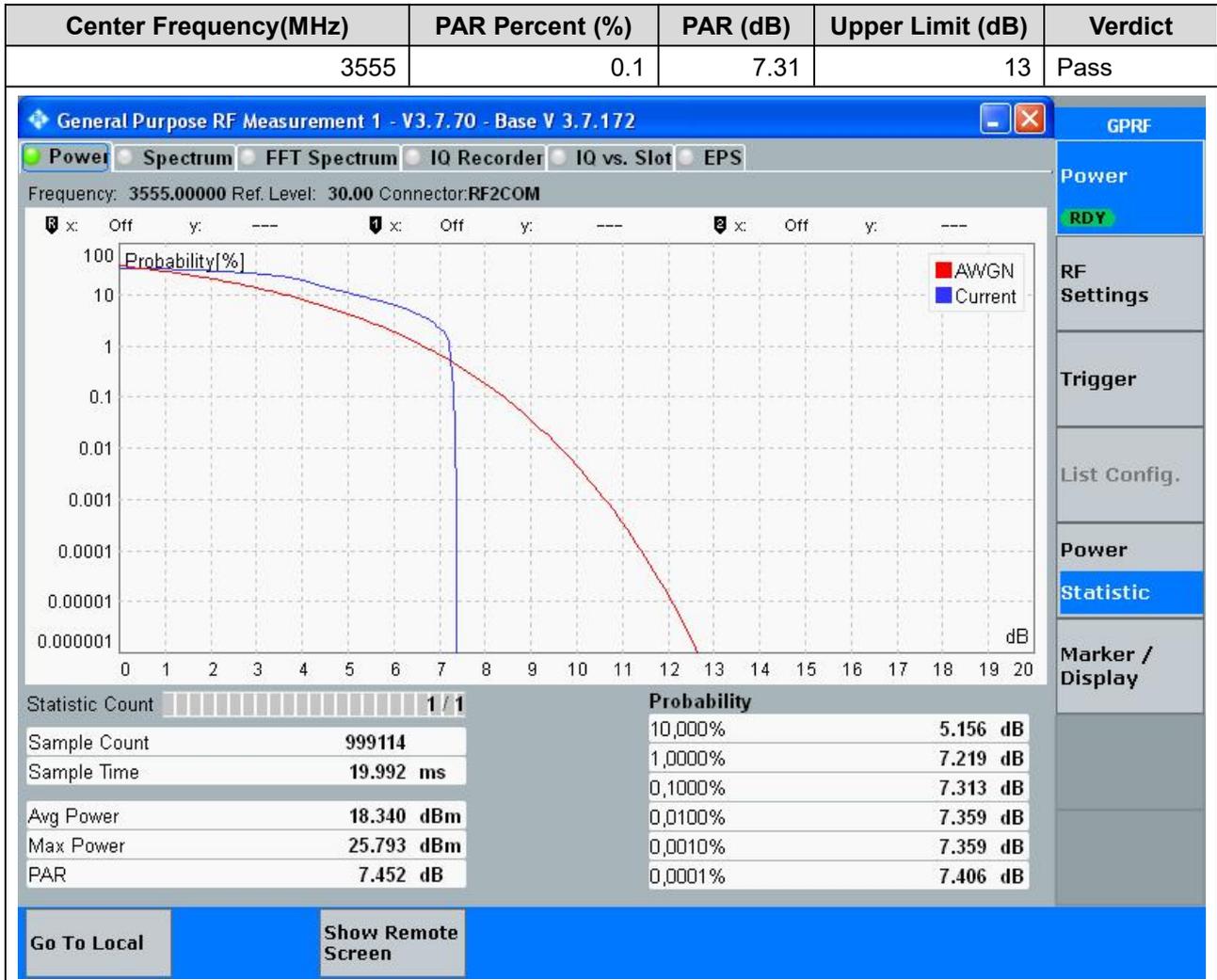
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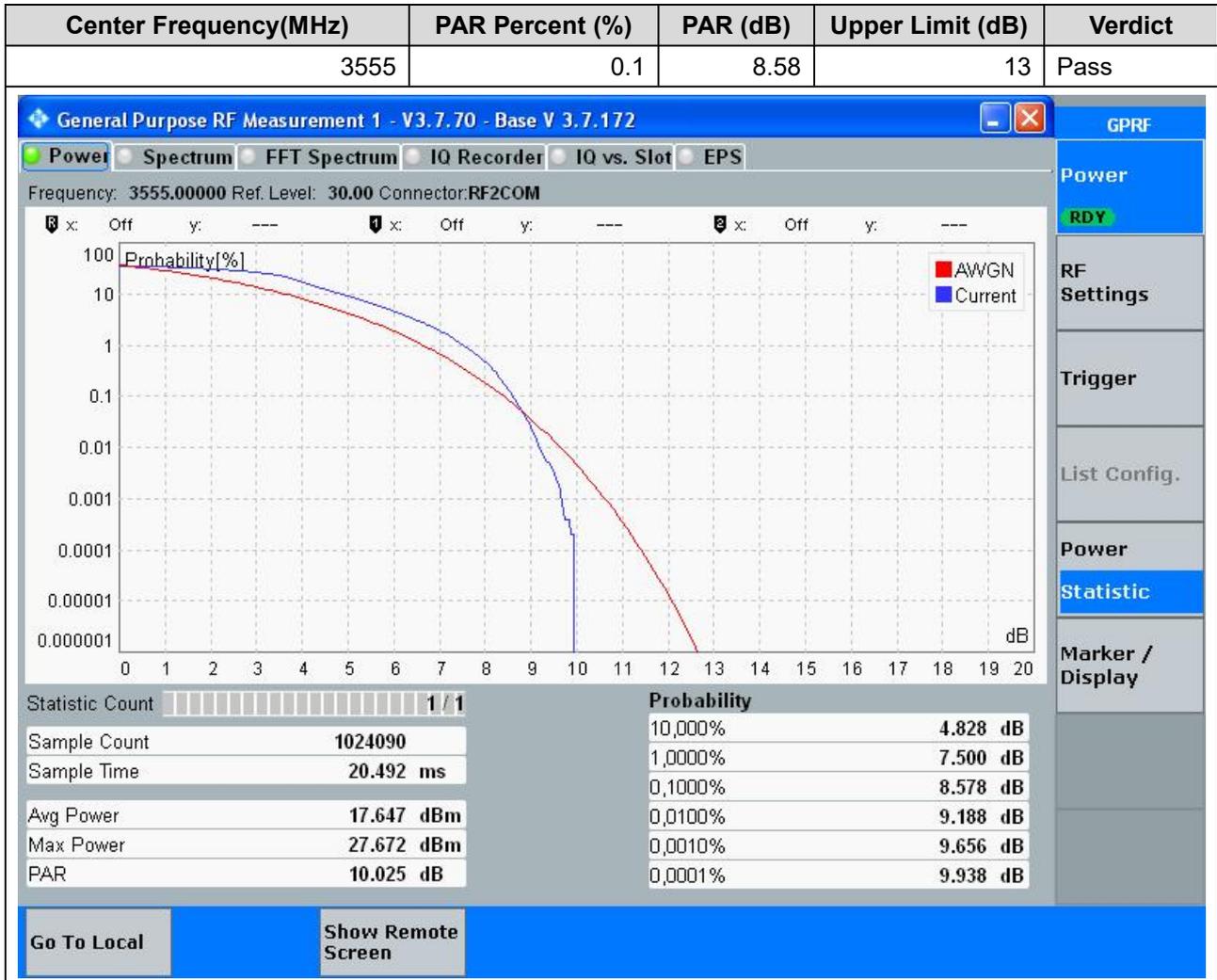
# Peak to Average Ratio

# 1. LTE\_Band48

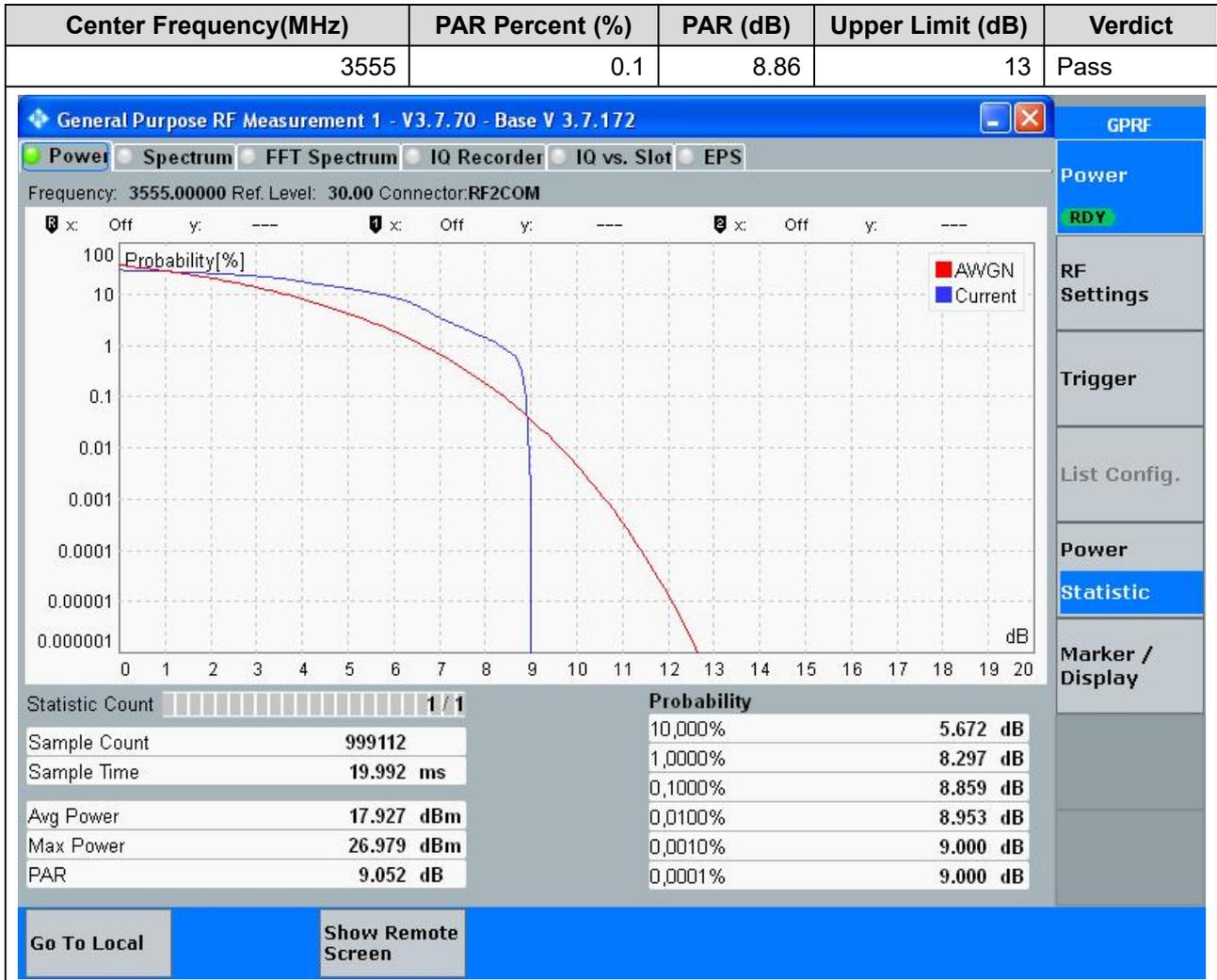
## 1.1. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:1, Channel:55290, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



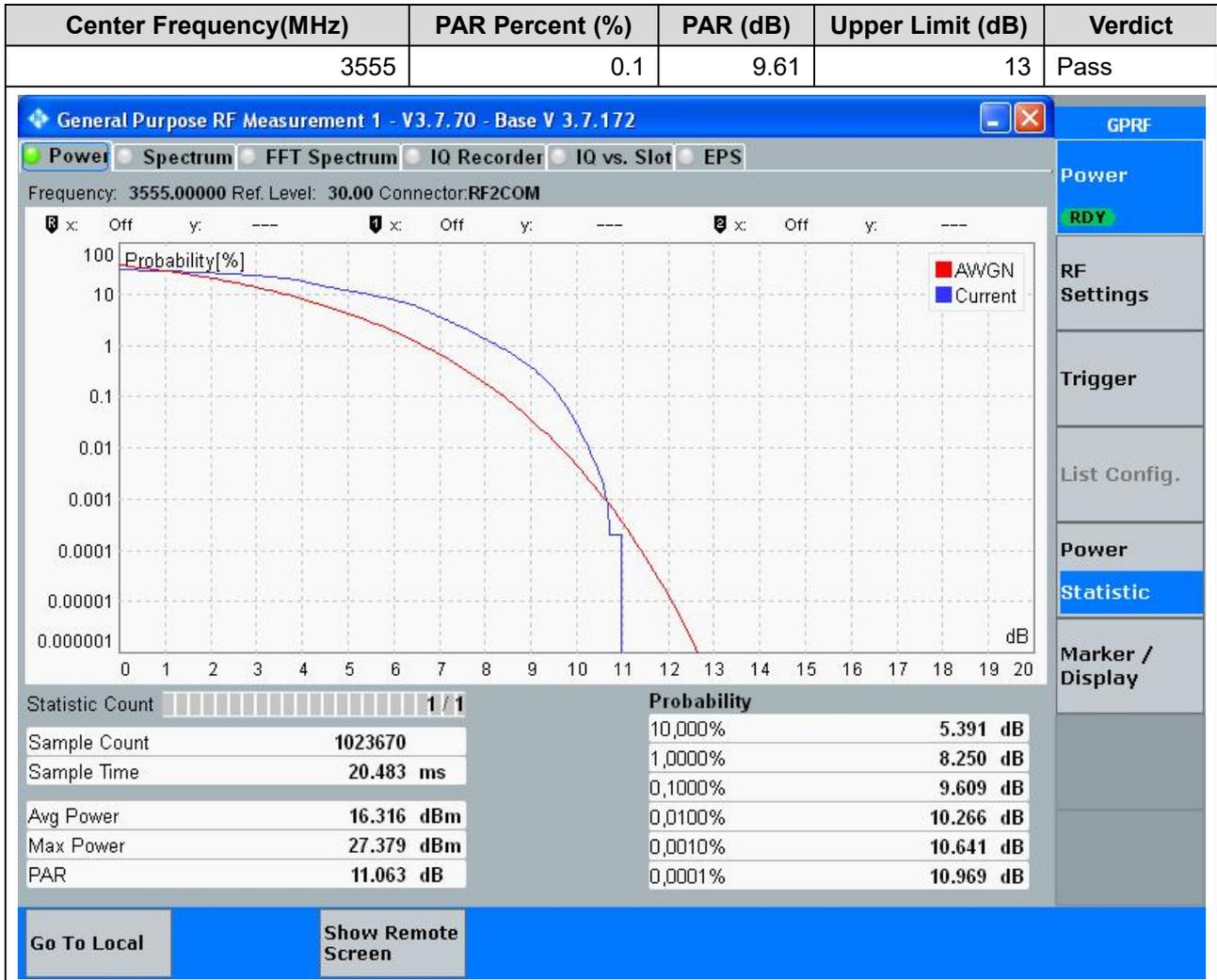
**1.2. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:2, Channel:55290, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



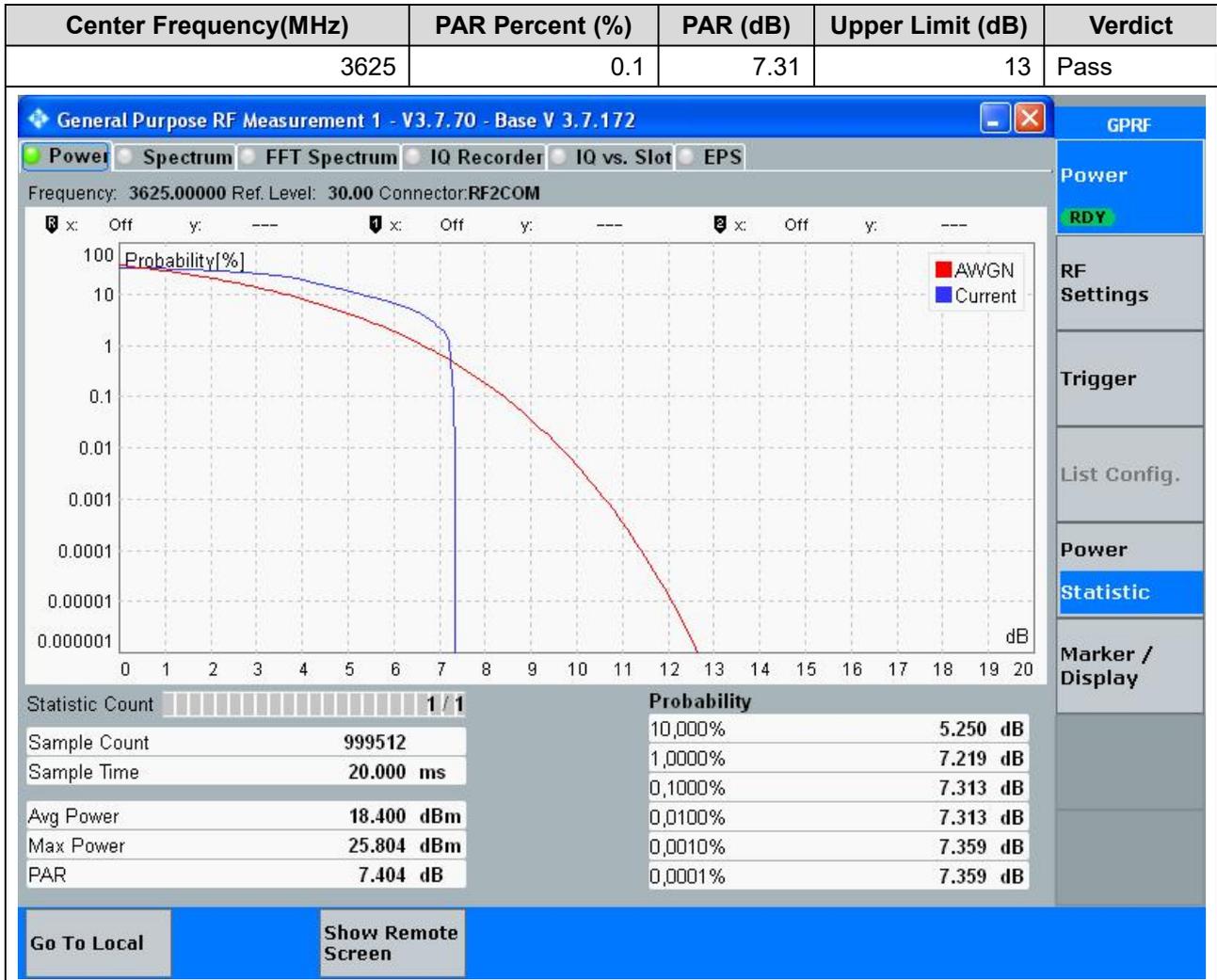
**1.3. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:3, Channel:55290, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



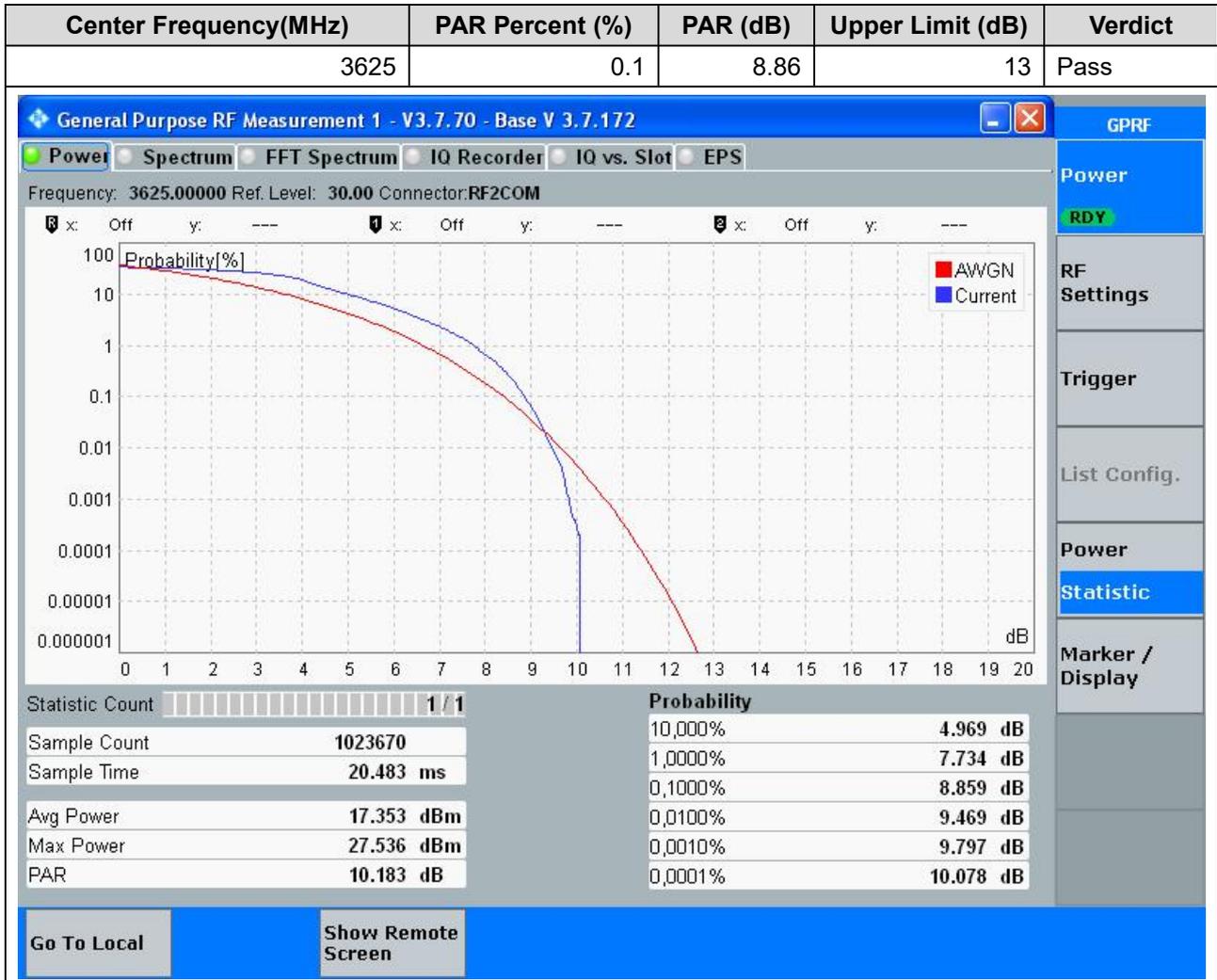
**1.4. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:4, Channel:55290, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



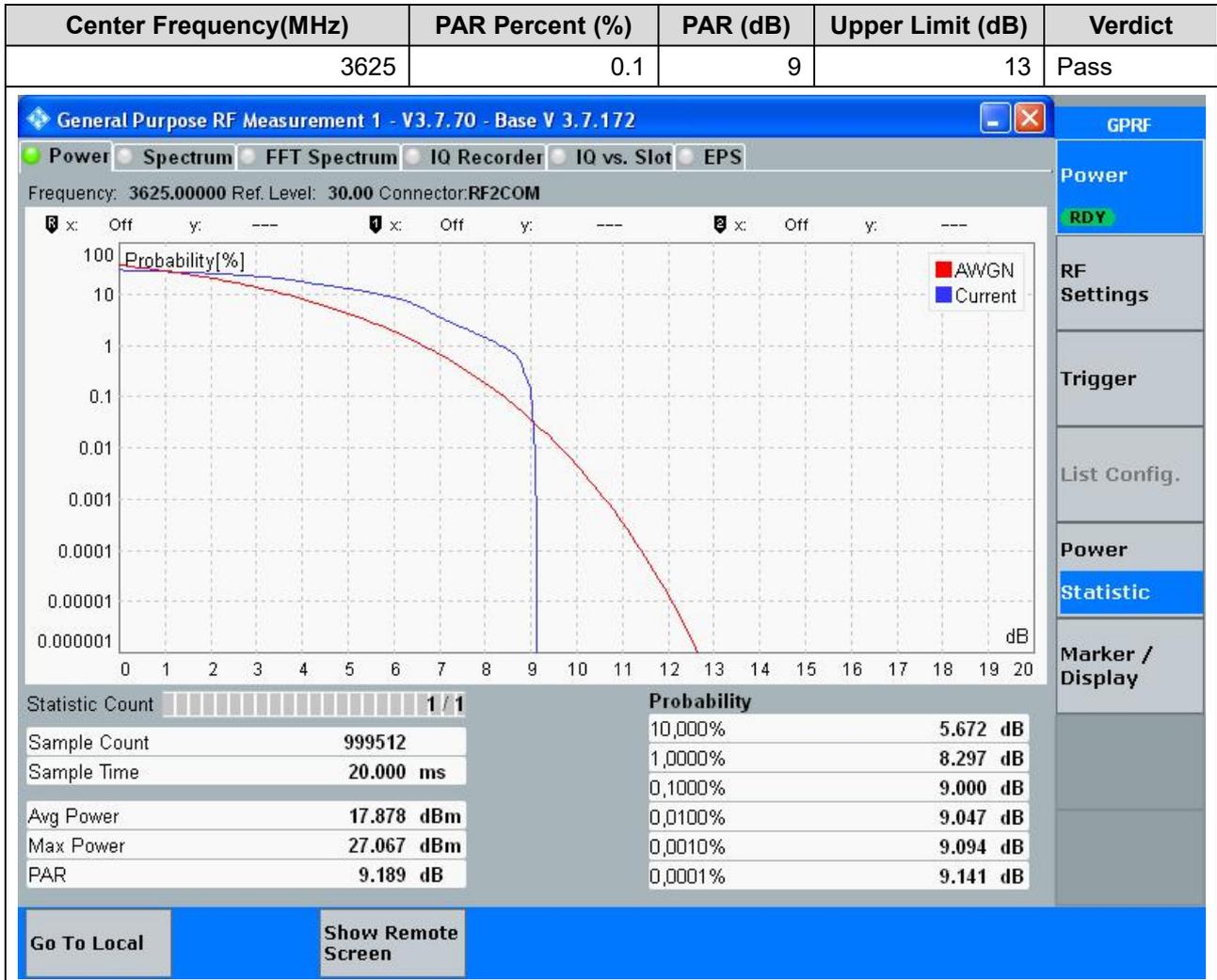
**1.5. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:5, Channel:55990, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



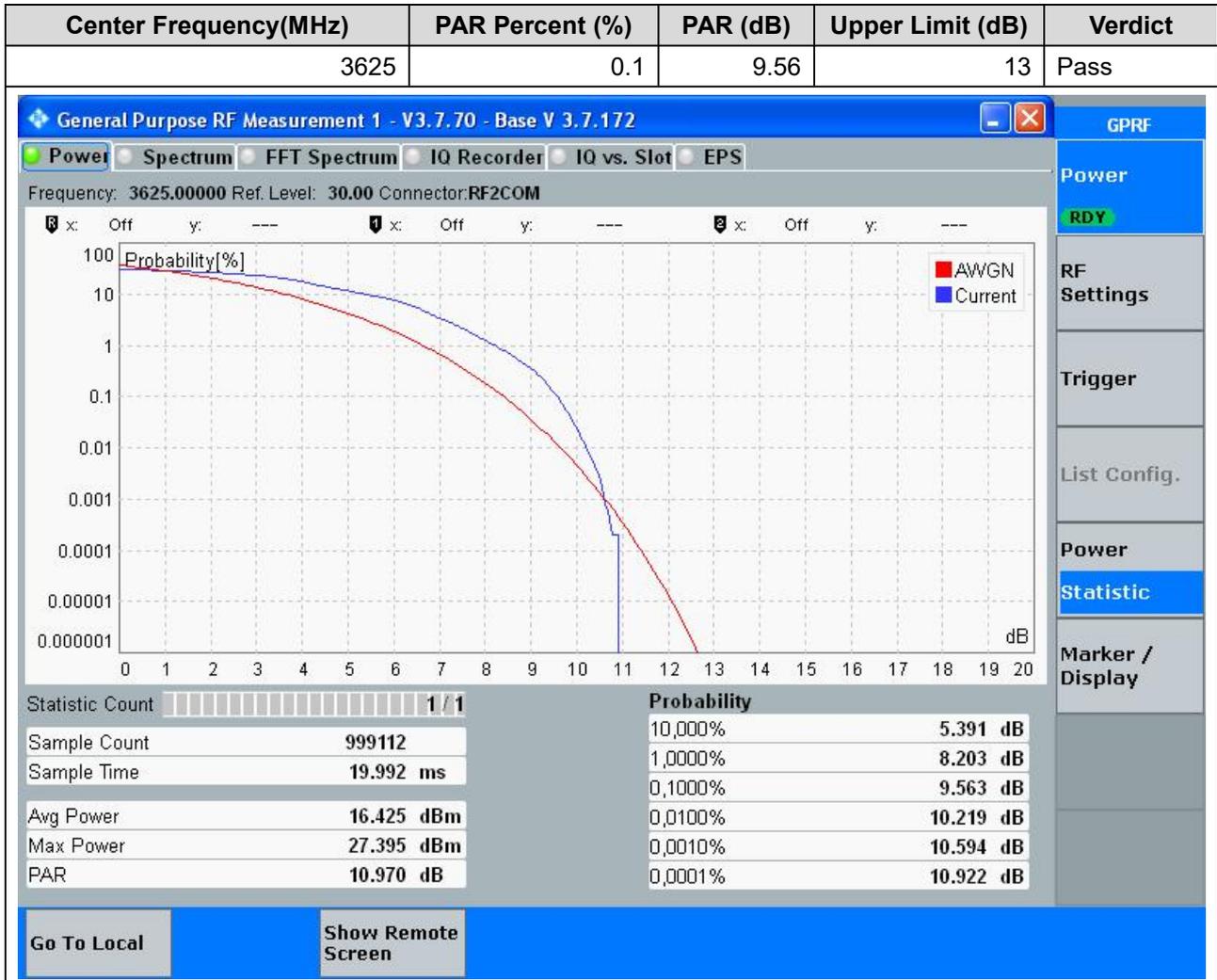
**1.6. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:6, Channel:55990, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



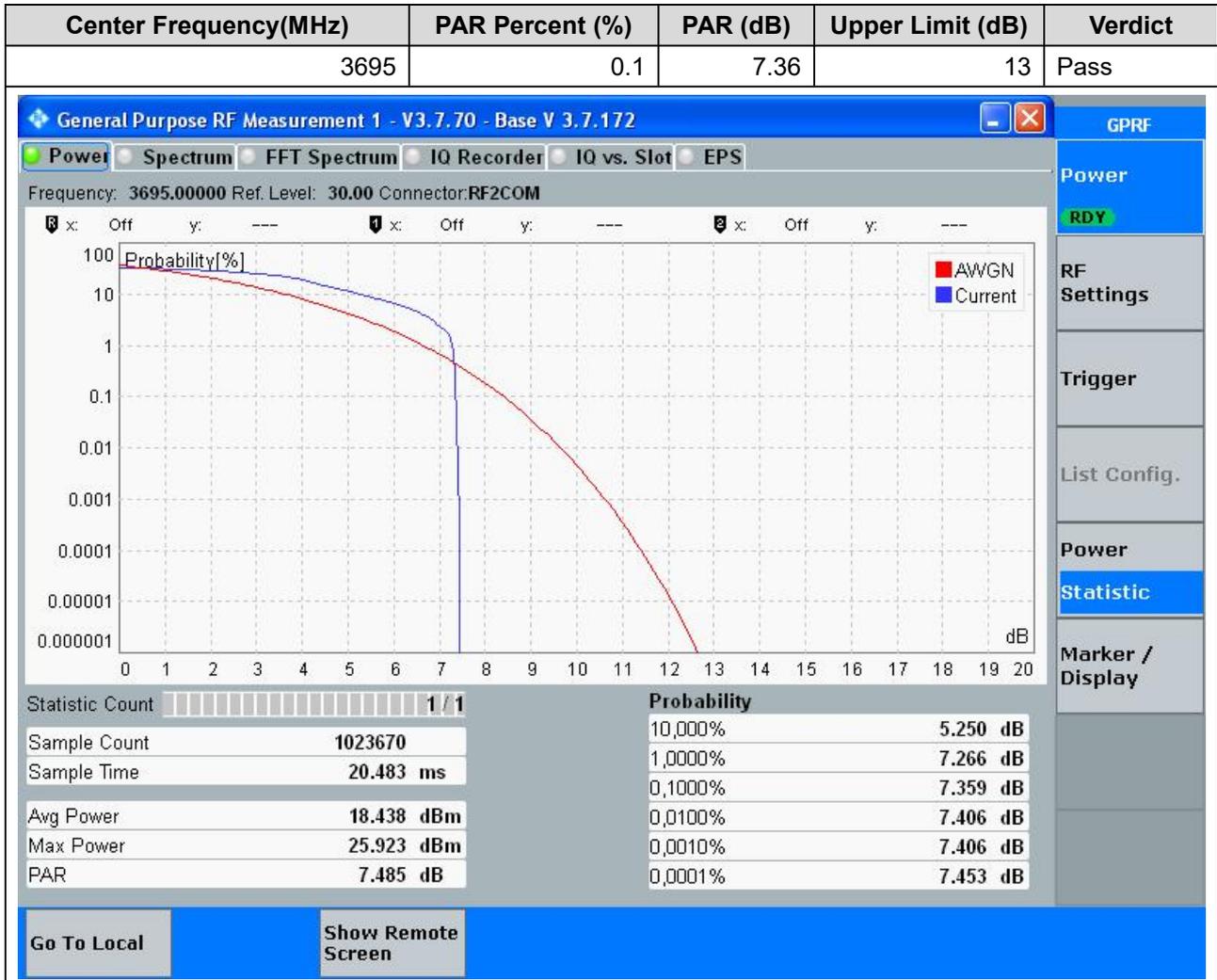
**1.7. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:7, Channel:55990, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



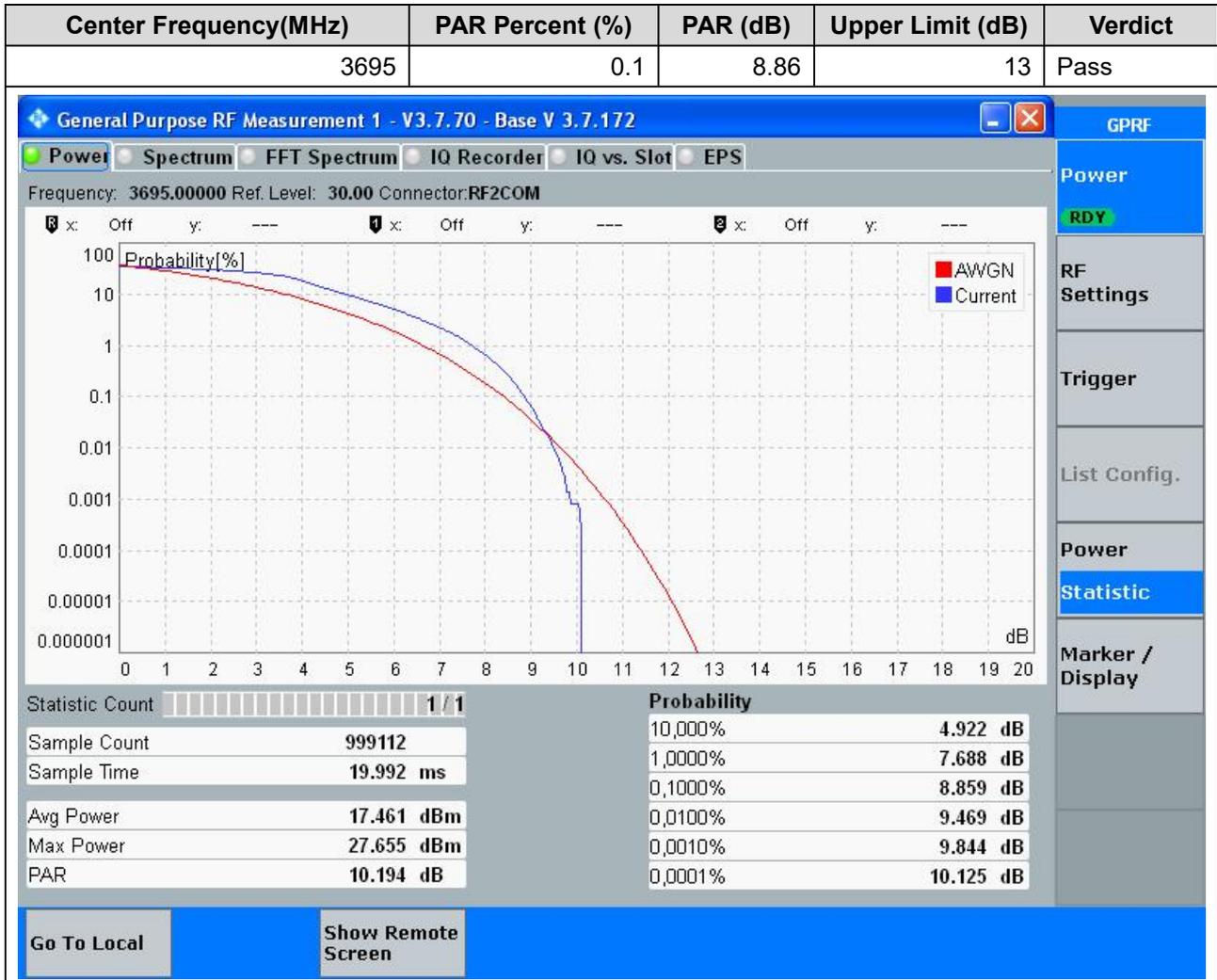
**1.8. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:8, Channel:55990, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



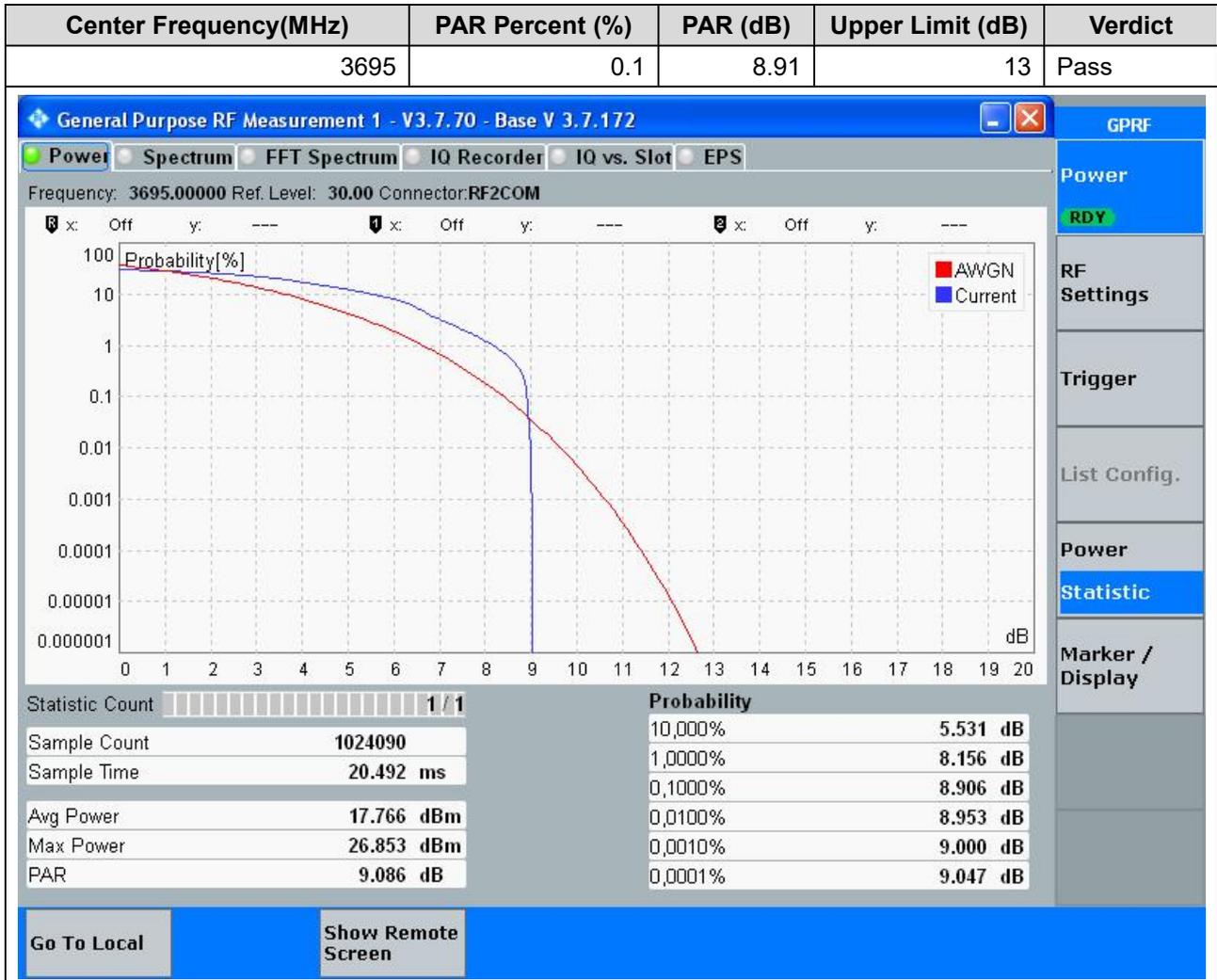
**1.9. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:9, Channel:56690, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



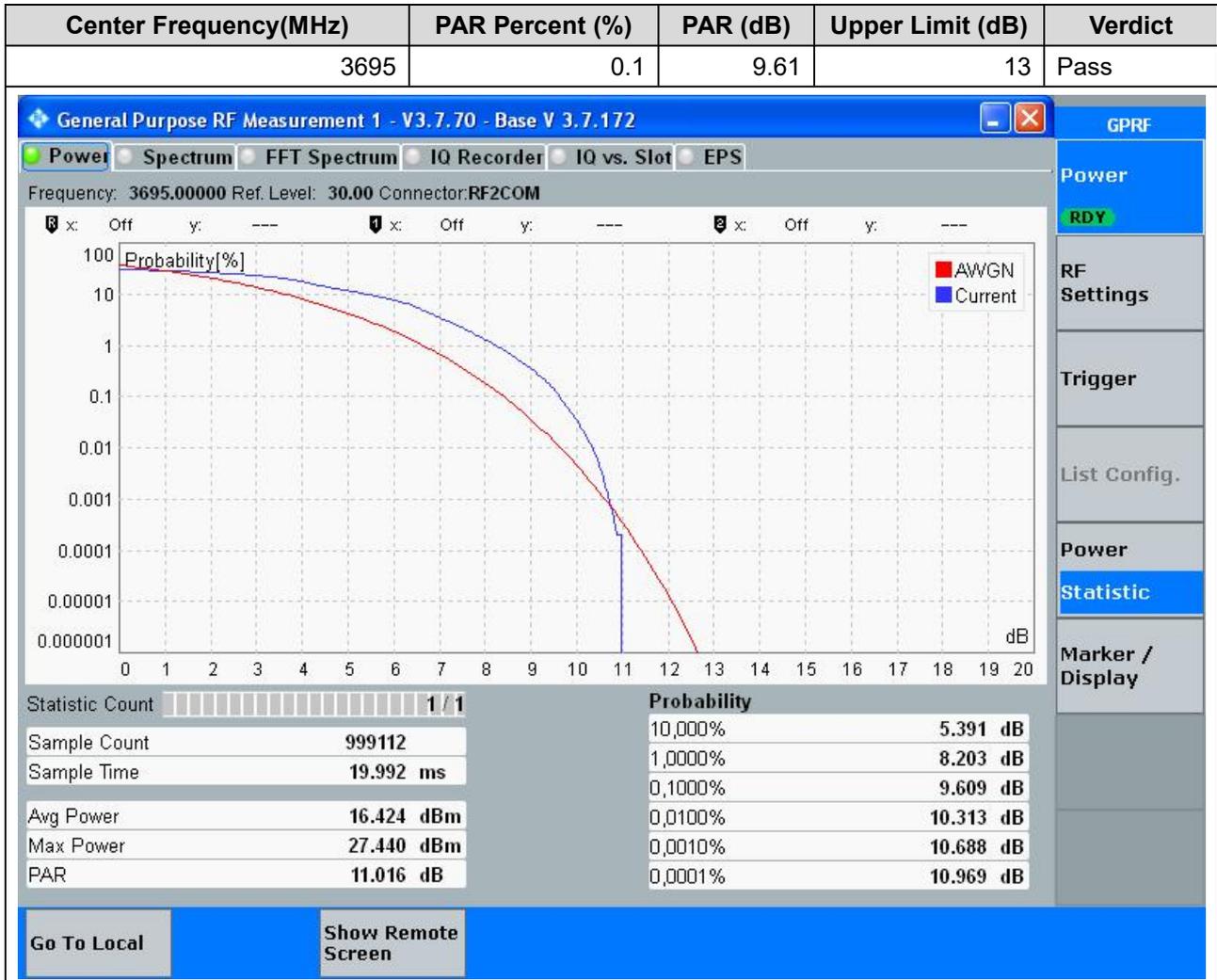
**1.10. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:10, Channel:56690, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**1.11. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:11, Channel:56690, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



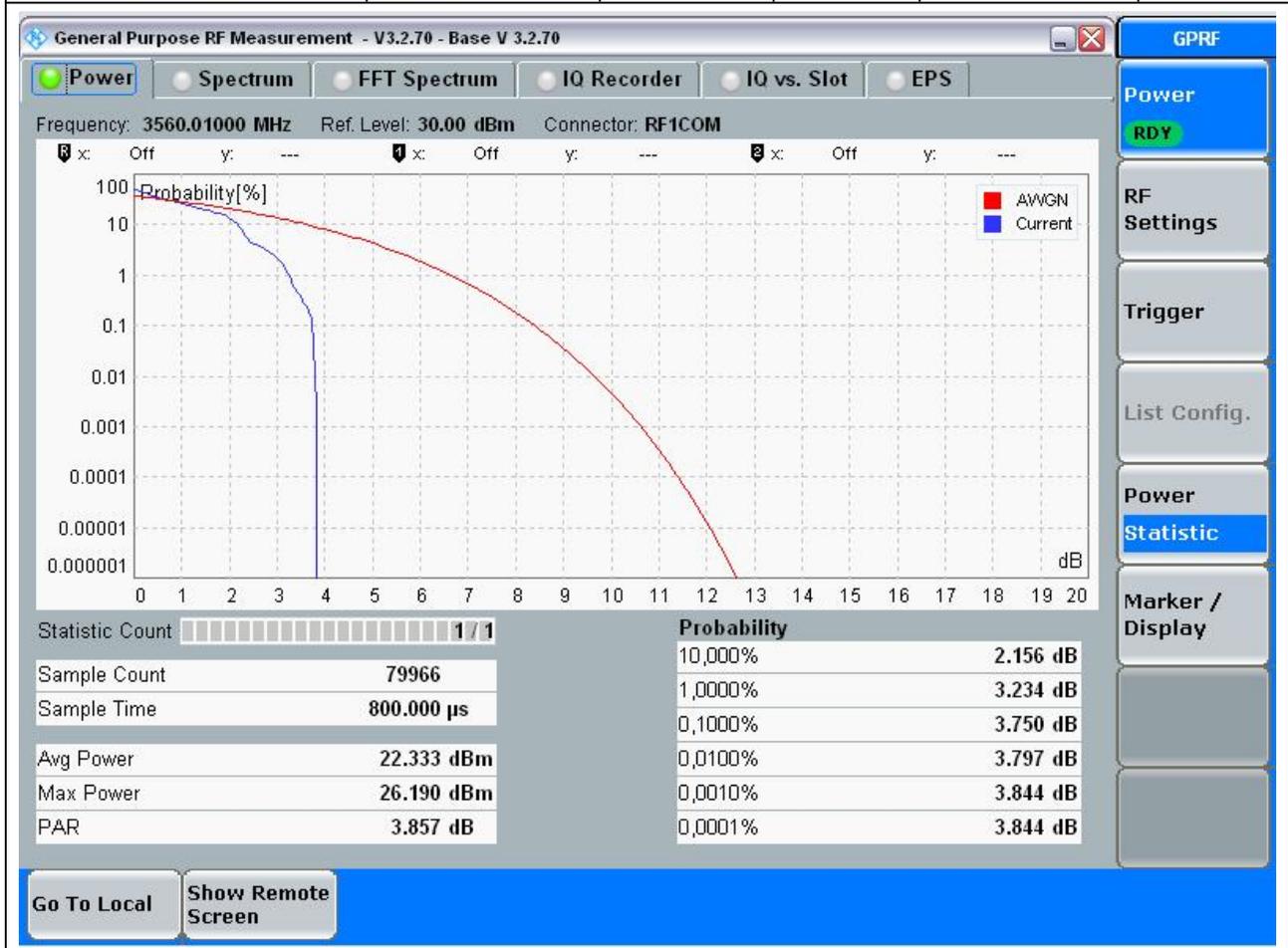
**1.12. LTE Peak to Average Ratio\_Part96(NTNV)(Subtest:12, Channel:56690, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



## 1. n48 30kHz

1.1. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	3.75	13	Pass



**1.2. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	4.08	13	Pass

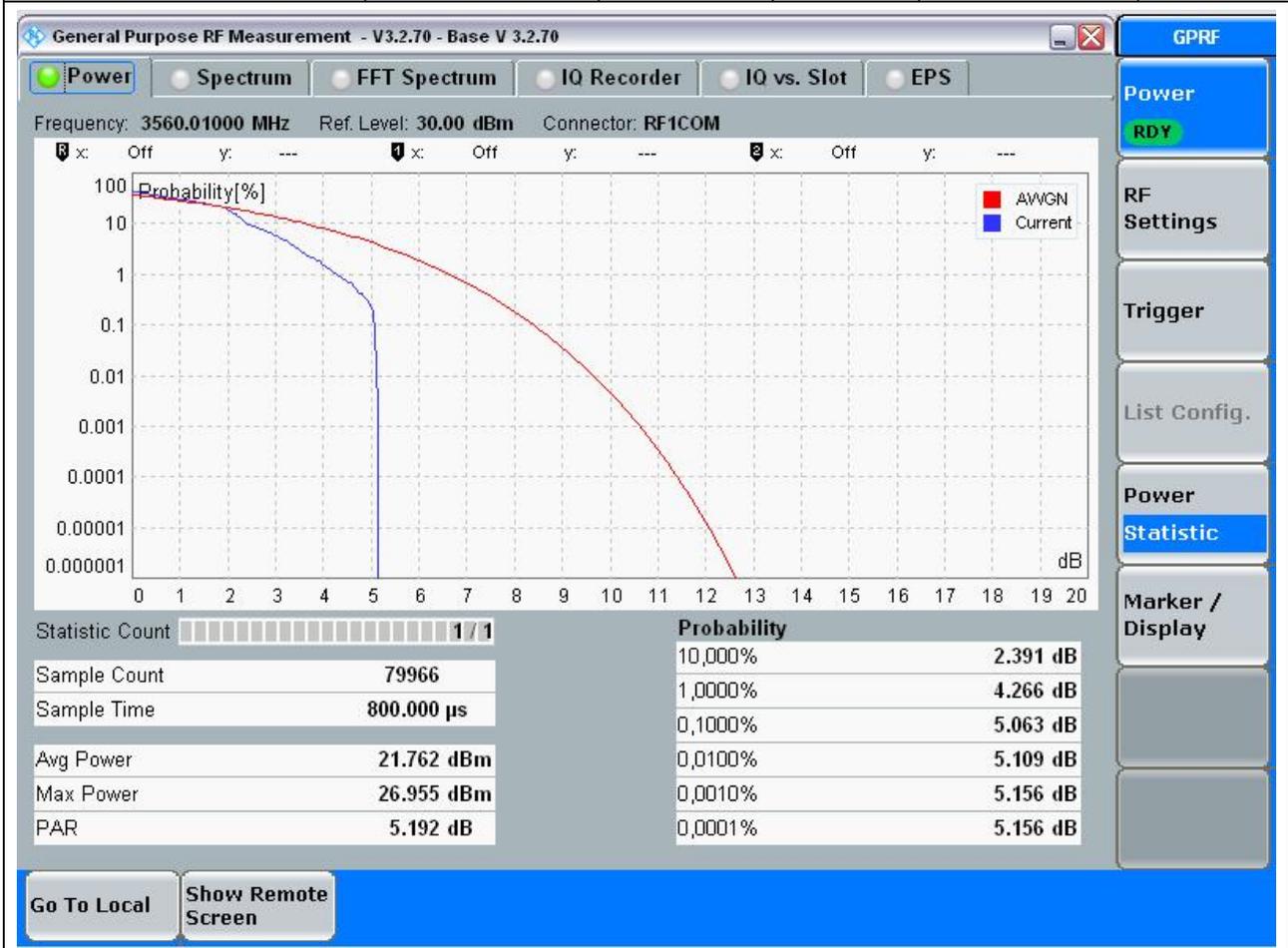
The screenshot displays the 'General Purpose RF Measurement' interface. The main plot shows 'Probability[%]' on the y-axis (log scale from 0.000001 to 100) versus 'dB' on the x-axis (linear scale from 0 to 20). Two curves are shown: 'AWGN' (red) and 'Current' (blue). The 'Current' curve shows a sharp drop at approximately 4.8 dB, while the 'AWGN' curve is much flatter. Below the plot, a table provides statistical data:

Statistic Count		Probability	
Sample Count	79966	10,000%	1.922 dB
Sample Time	800.000 $\mu$ s	1,0000%	3.234 dB
Avg Power	22.401 dBm	0,1000%	4.078 dB
Max Power	27.228 dBm	0,0100%	4.406 dB
PAR	4.826 dB	0,0010%	4.594 dB
		0,0001%	4.594 dB

Additional interface elements include a top menu bar with 'Power', 'Spectrum', 'FFT Spectrum', 'IQ Recorder', 'IQ vs. Slot', and 'EPS'. A right-hand sidebar contains buttons for 'GPRF', 'Power RDY', 'RF Settings', 'Trigger', 'List Config.', 'Power Statistic', and 'Marker / Display'. At the bottom, there are 'Go To Local' and 'Show Remote Screen' buttons.

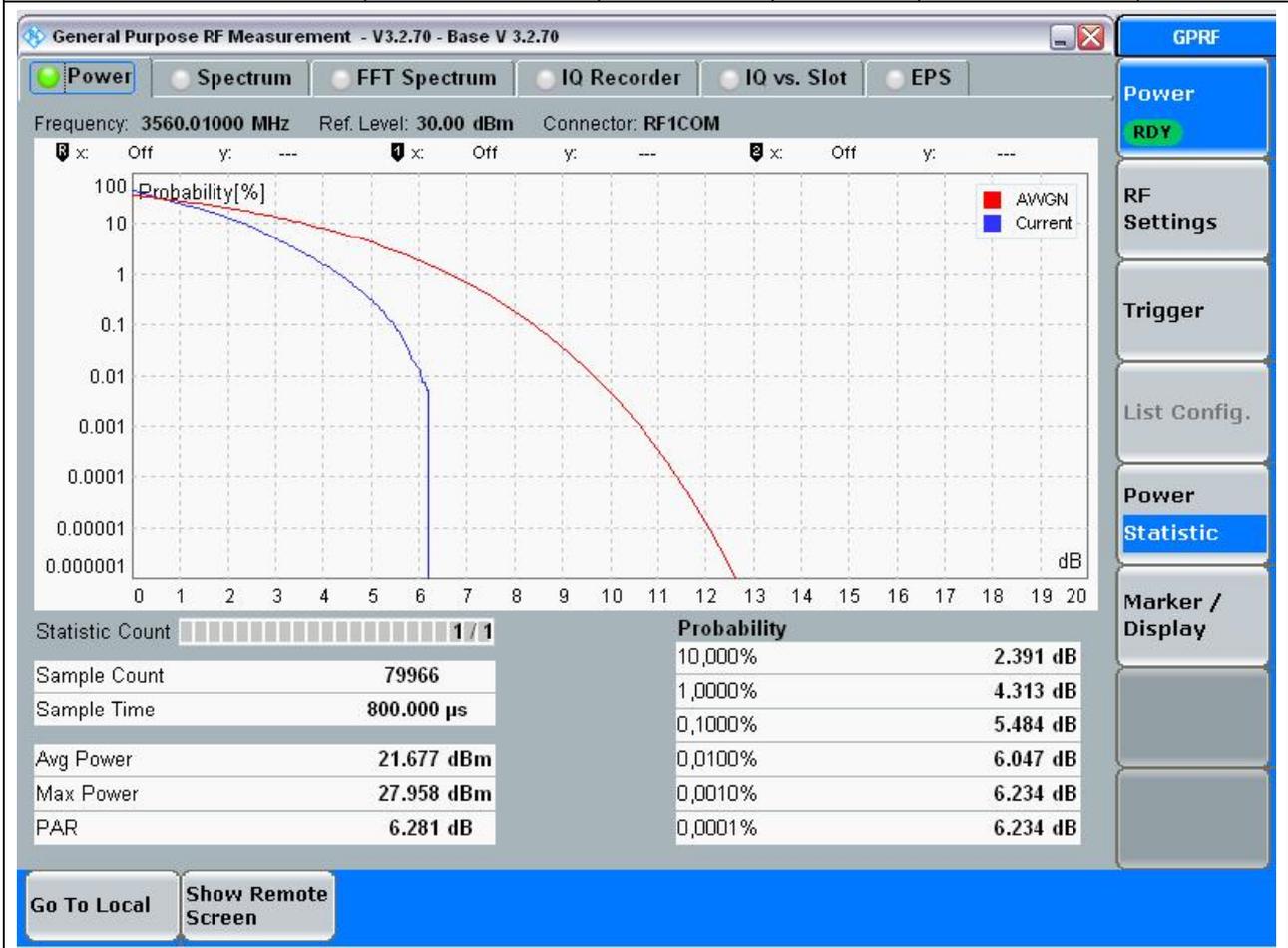
**1.3. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	5.06	13	Pass



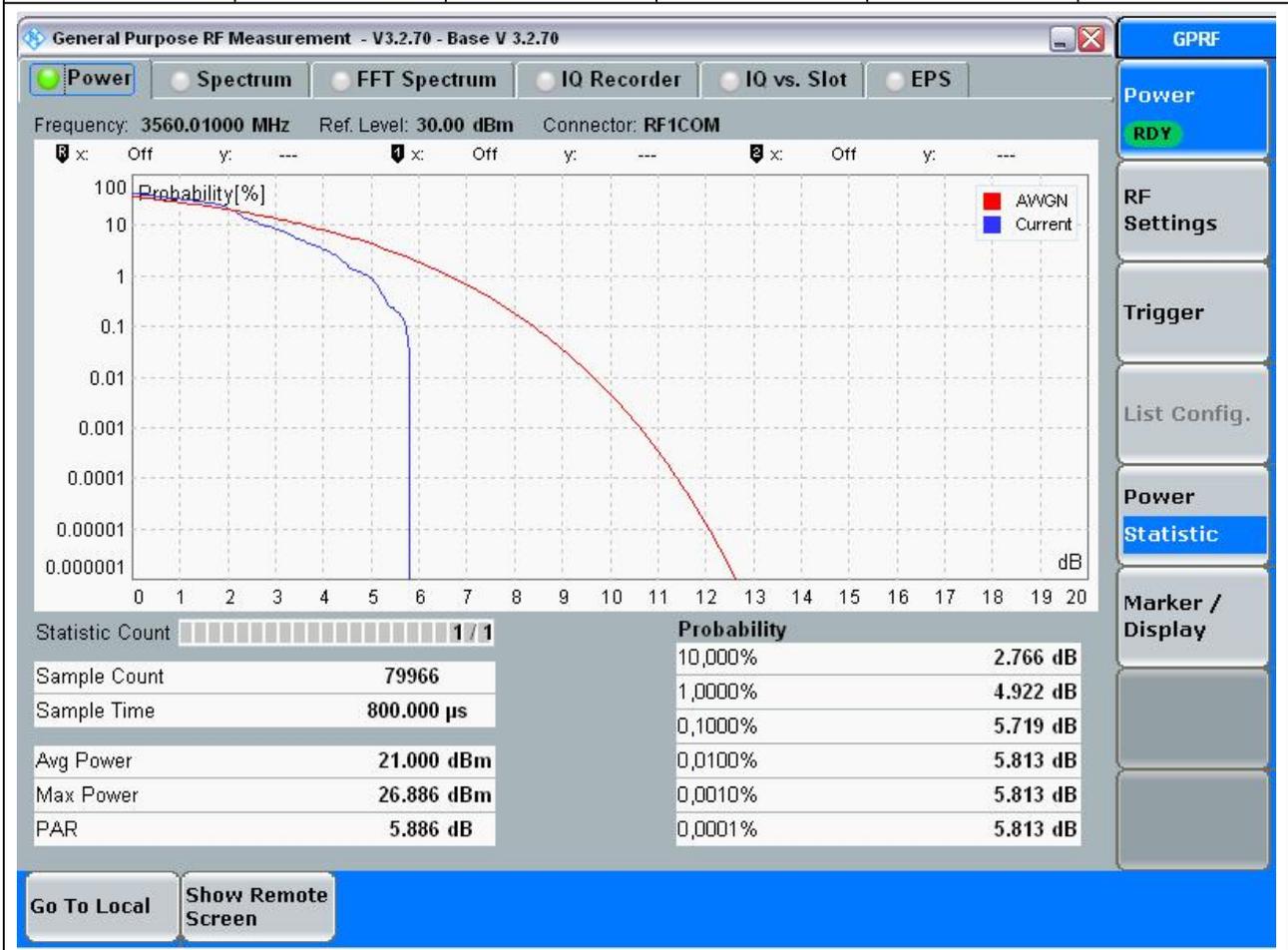
**1.4. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	5.48	13	Pass



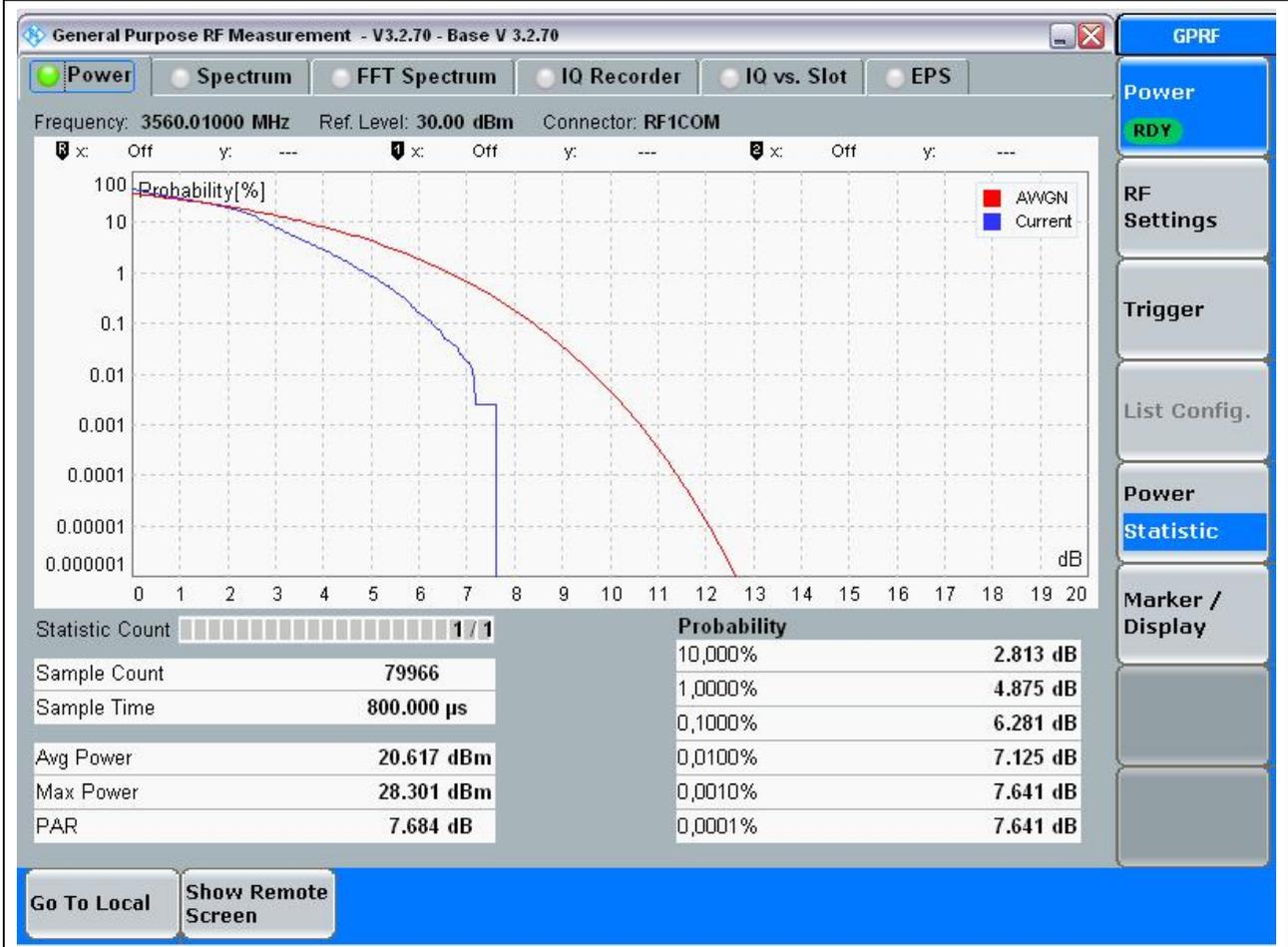
**1.5. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	5.72	13	Pass



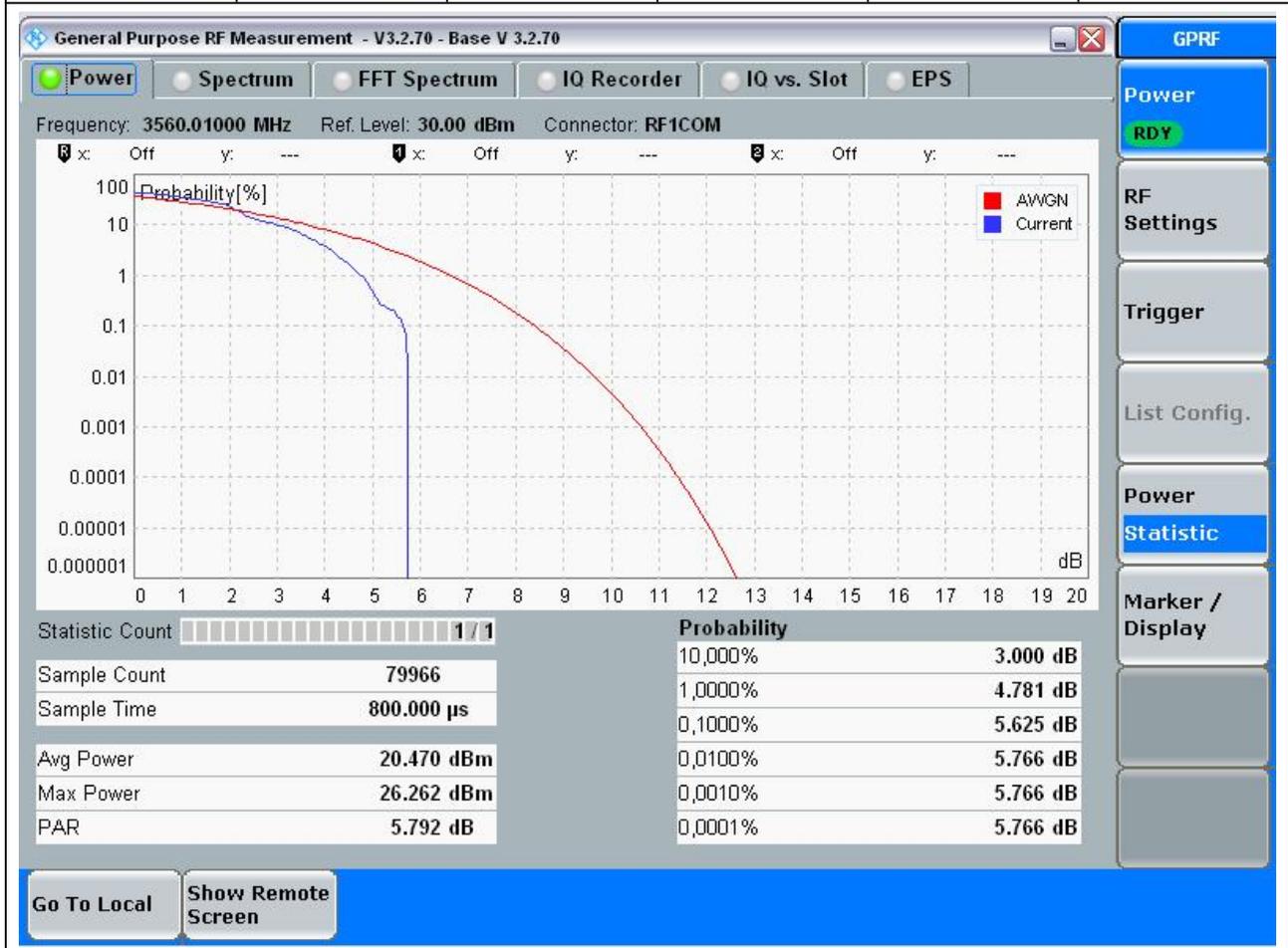
**1.6. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	6.28	13	Pass



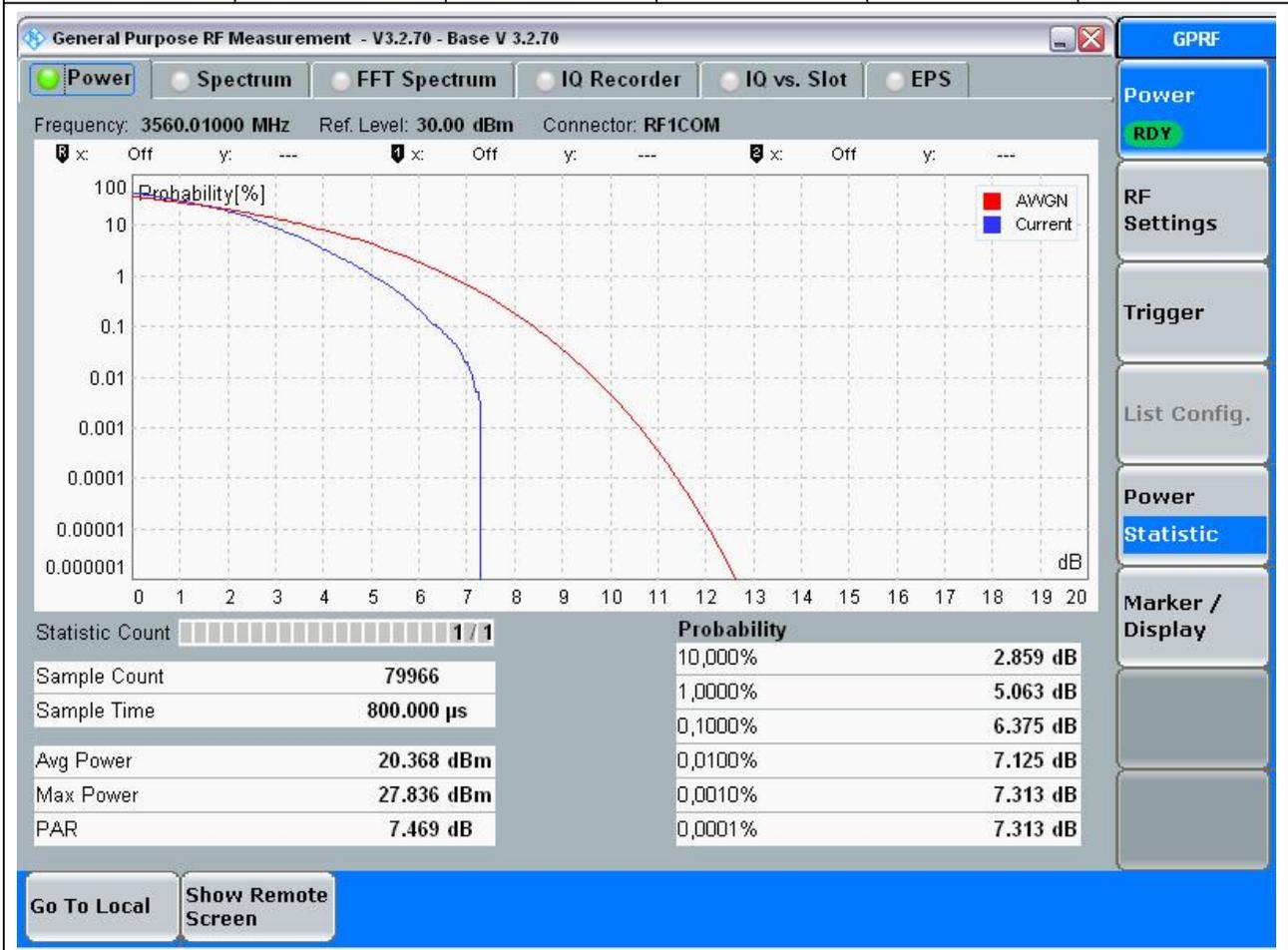
**1.7. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	5.62	13	Pass



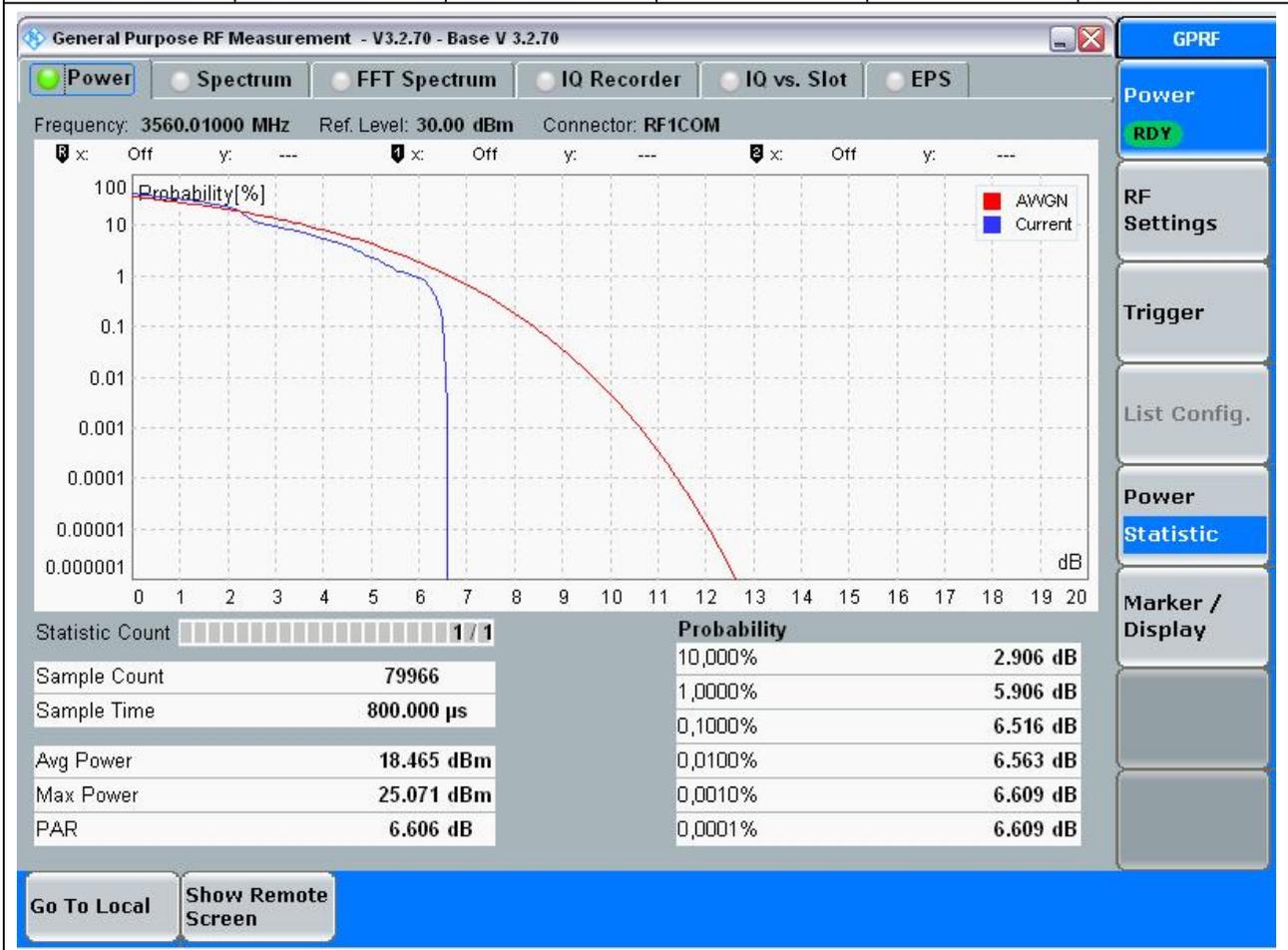
**1.8. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	6.37	13	Pass



**1.9. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	6.52	13	Pass



**1.10. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	20	6.66	13	Pass

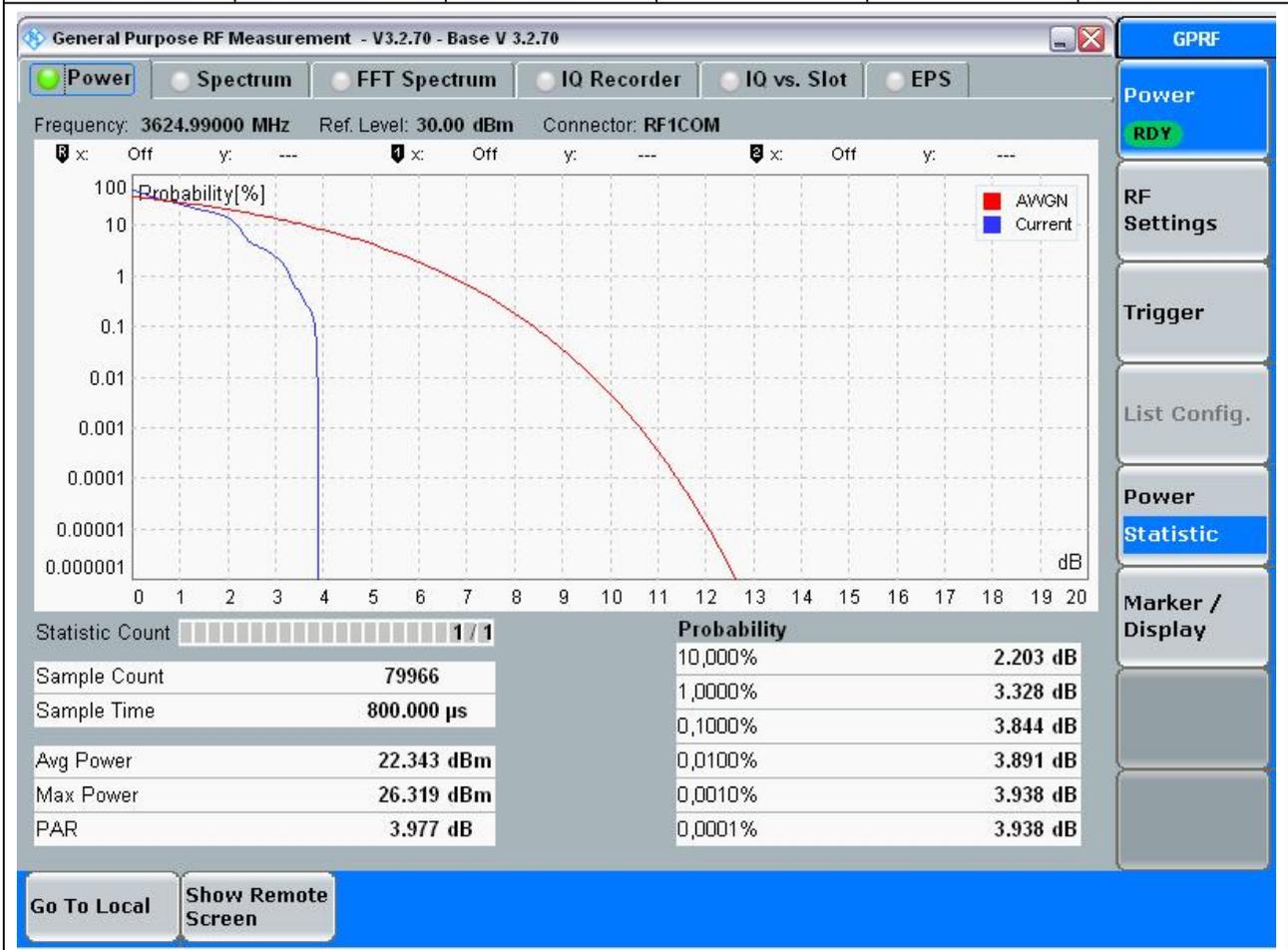
The screenshot shows the 'General Purpose RF Measurement' software interface. The main window displays a graph of Probability [%] versus dB. The y-axis ranges from 0.000001 to 100, and the x-axis ranges from 0 to 20. Two curves are shown: a red line for 'AWGN' and a blue line for 'Current'. The 'Current' curve shows a sharp drop at approximately 8.228 dB. Below the graph, a statistics table provides the following data:

Statistic	Value	Probability	Value
Sample Count	79966	10,000%	2.859 dB
Sample Time	800.000 μs	1,0000%	5.203 dB
Avg Power	18.307 dBm	0,1000%	6.656 dB
Max Power	26.535 dBm	0,0100%	7.688 dB
PAR	8.228 dB	0,0010%	8.156 dB
		0,0001%	8.156 dB

Additional interface elements include a 'Power' button with 'RDY' status, 'RF Settings', 'Trigger', 'List Config.', 'Power Statistic', and 'Marker / Display' buttons on the right. At the bottom, there are 'Go To Local' and 'Show Remote Screen' buttons.

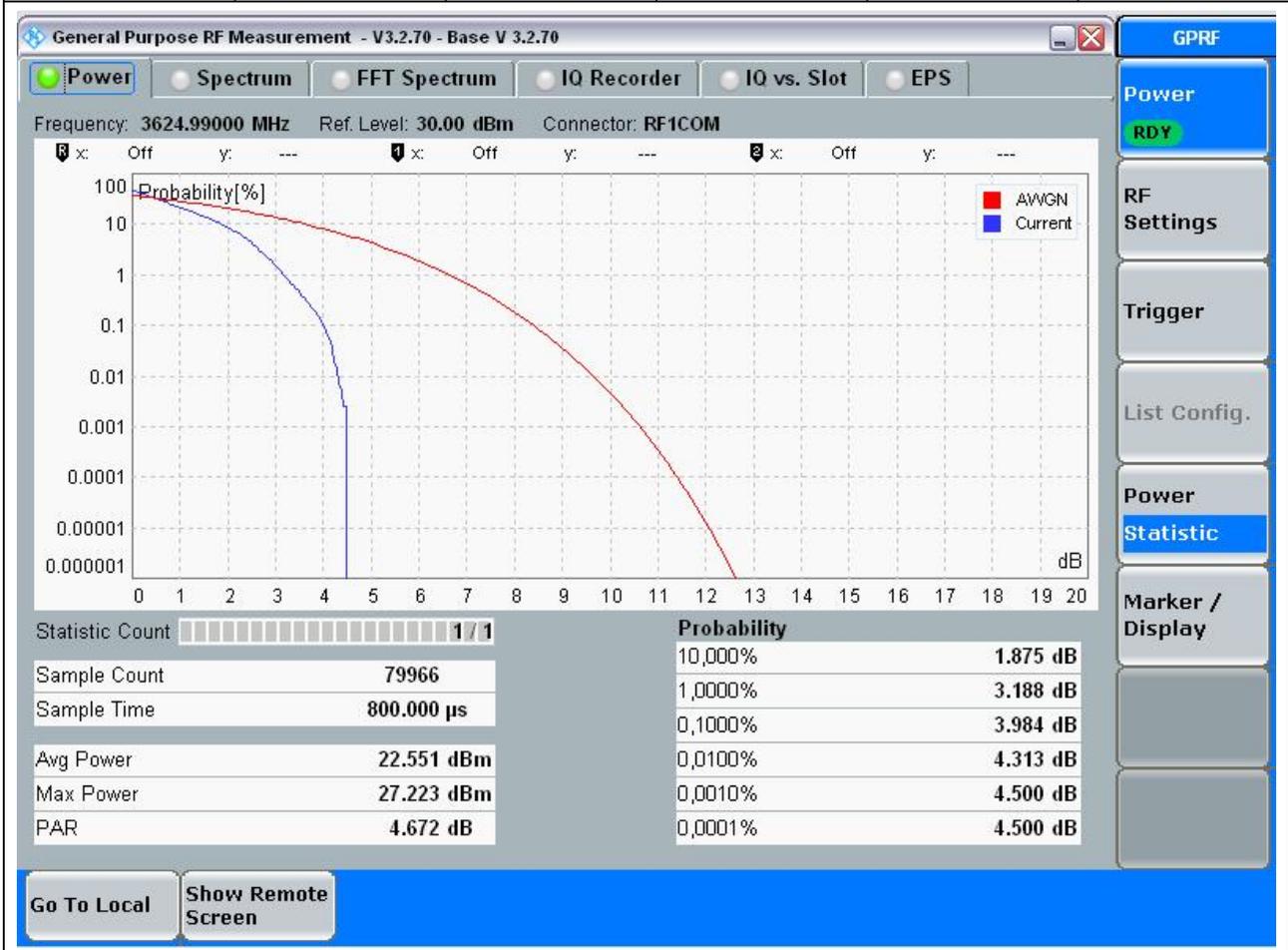
**1.11. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	3.84	13	Pass



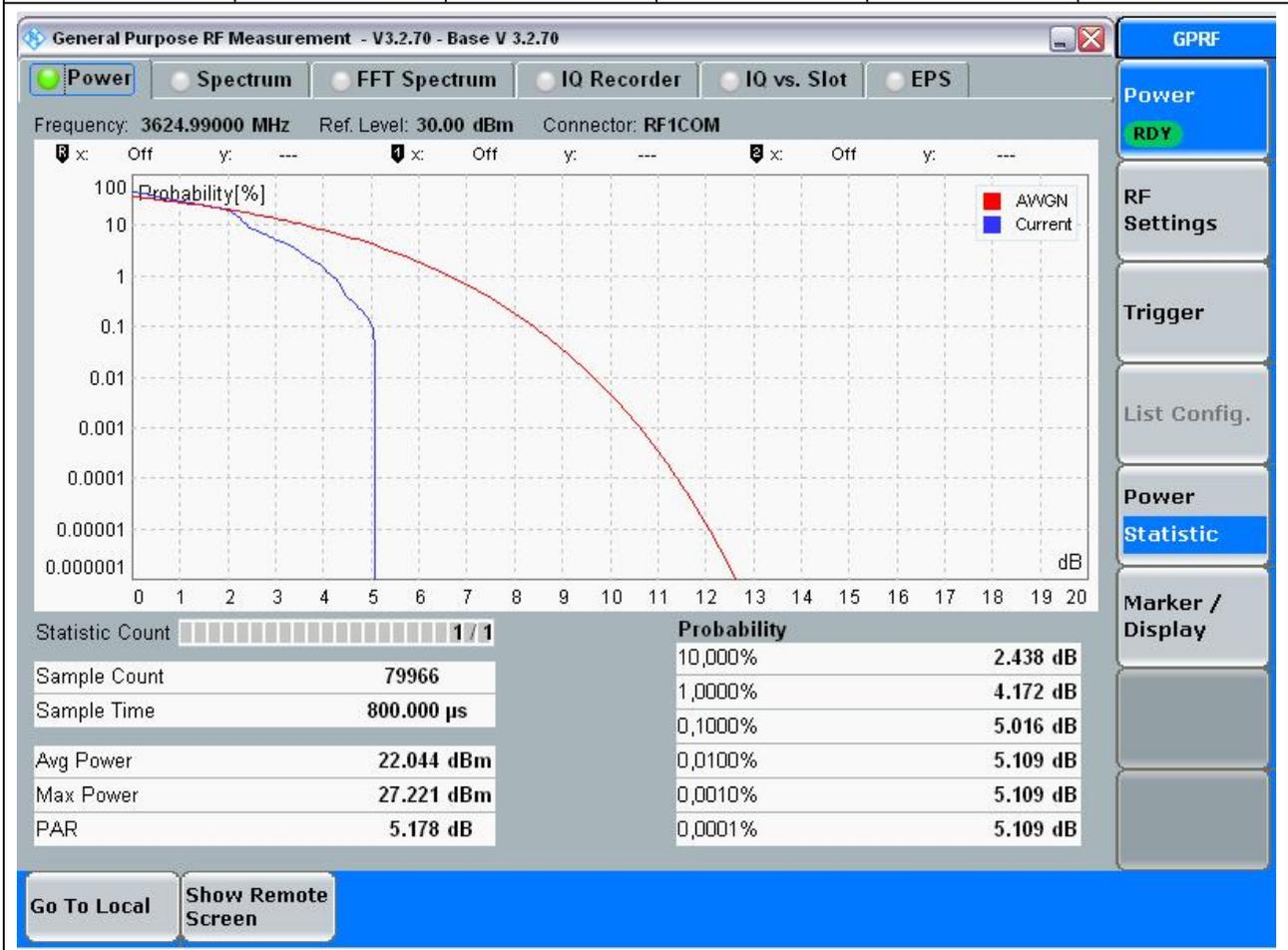
**1.12. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	3.98	13	Pass



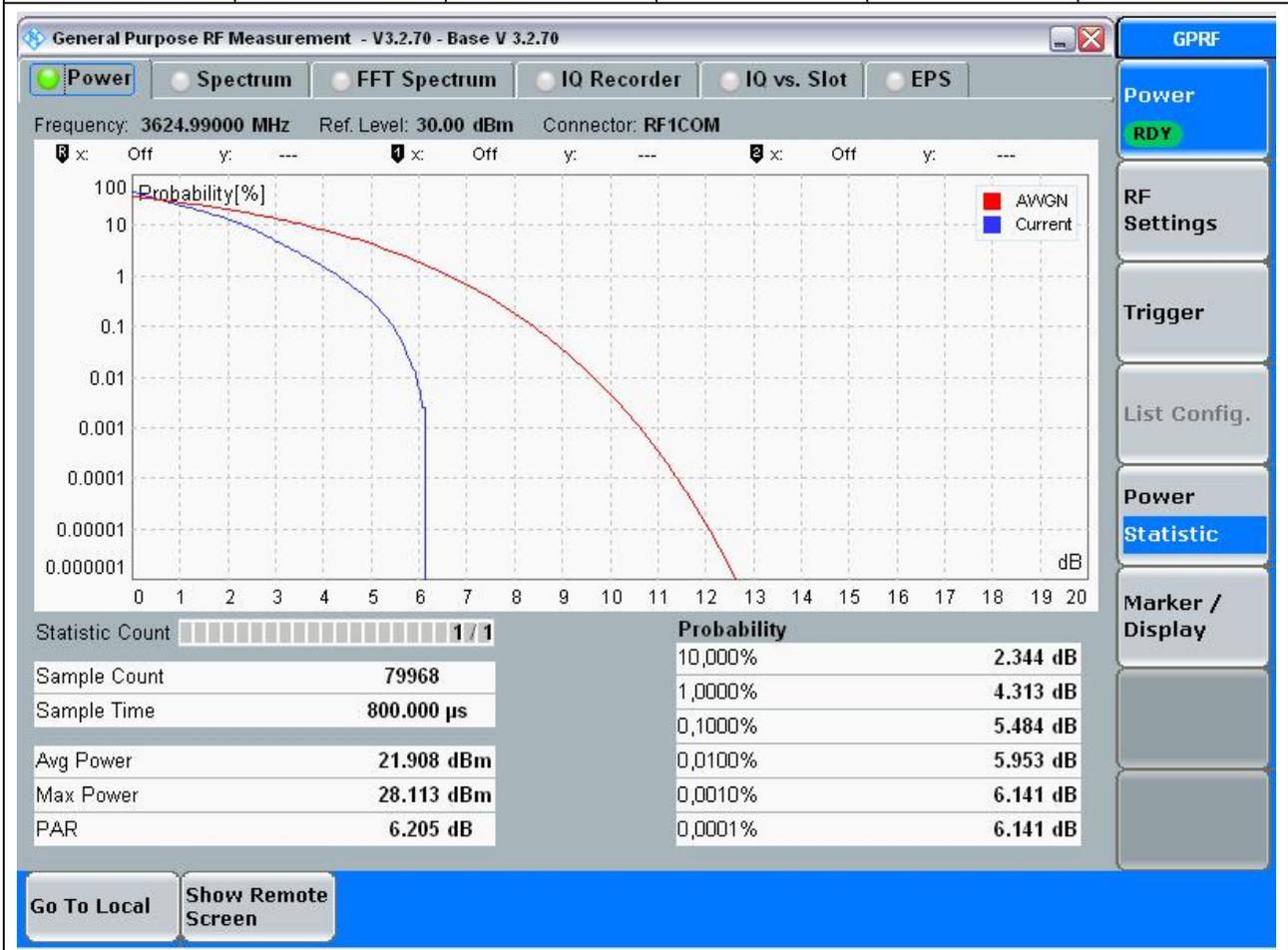
**1.13. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	5.02	13	Pass



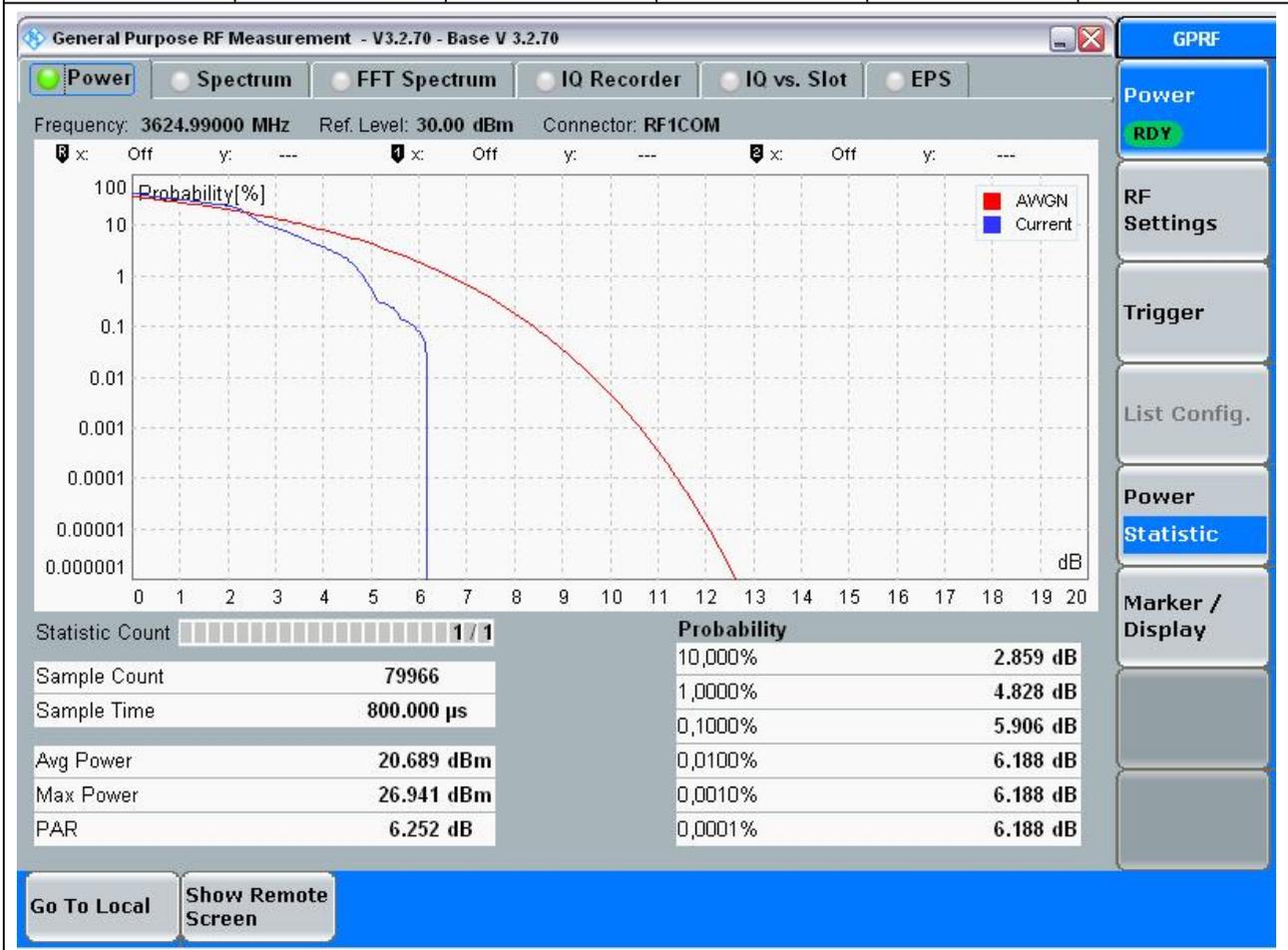
**1.14. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	5.48	13	Pass



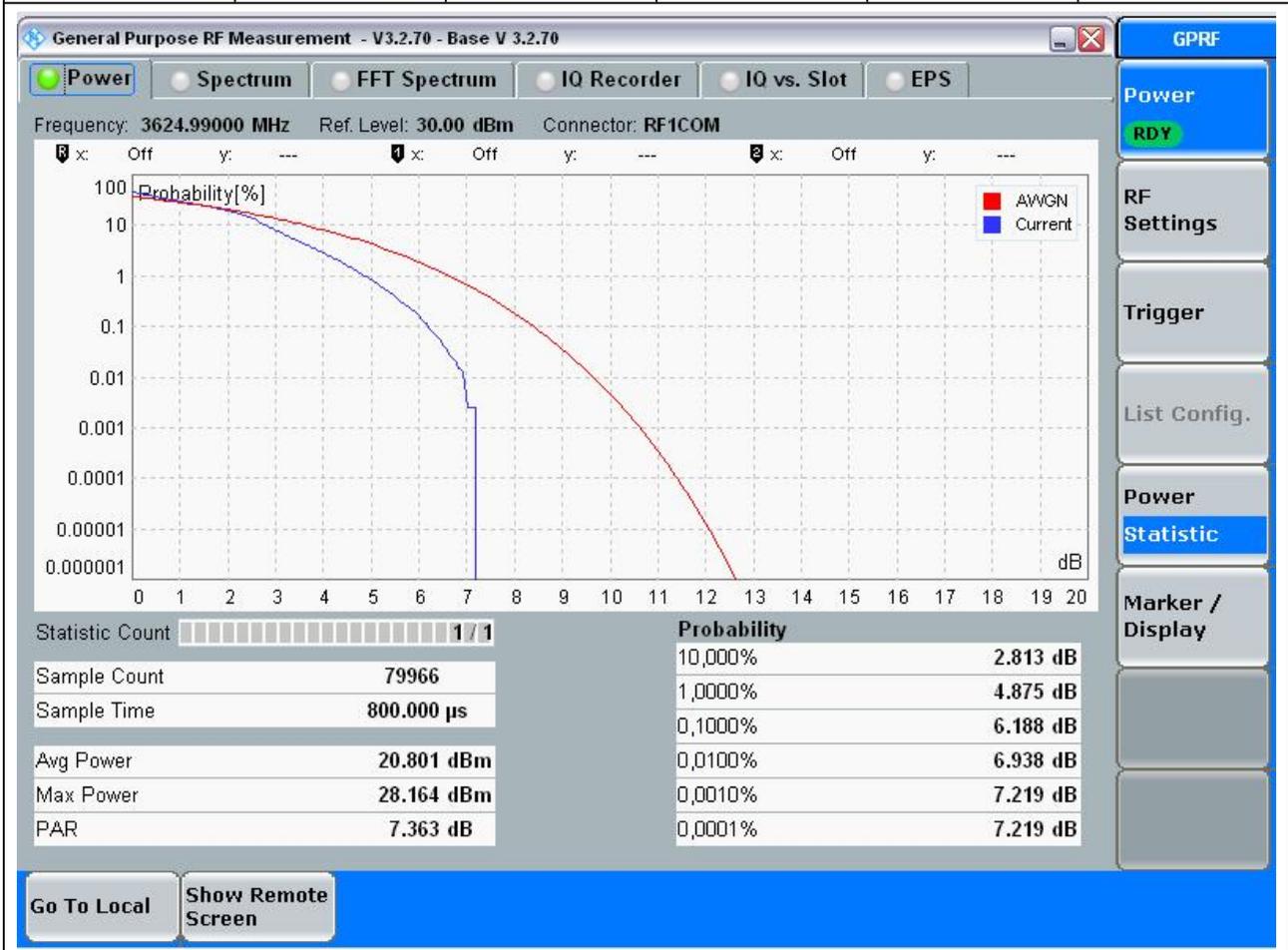
**1.15. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	5.91	13	Pass



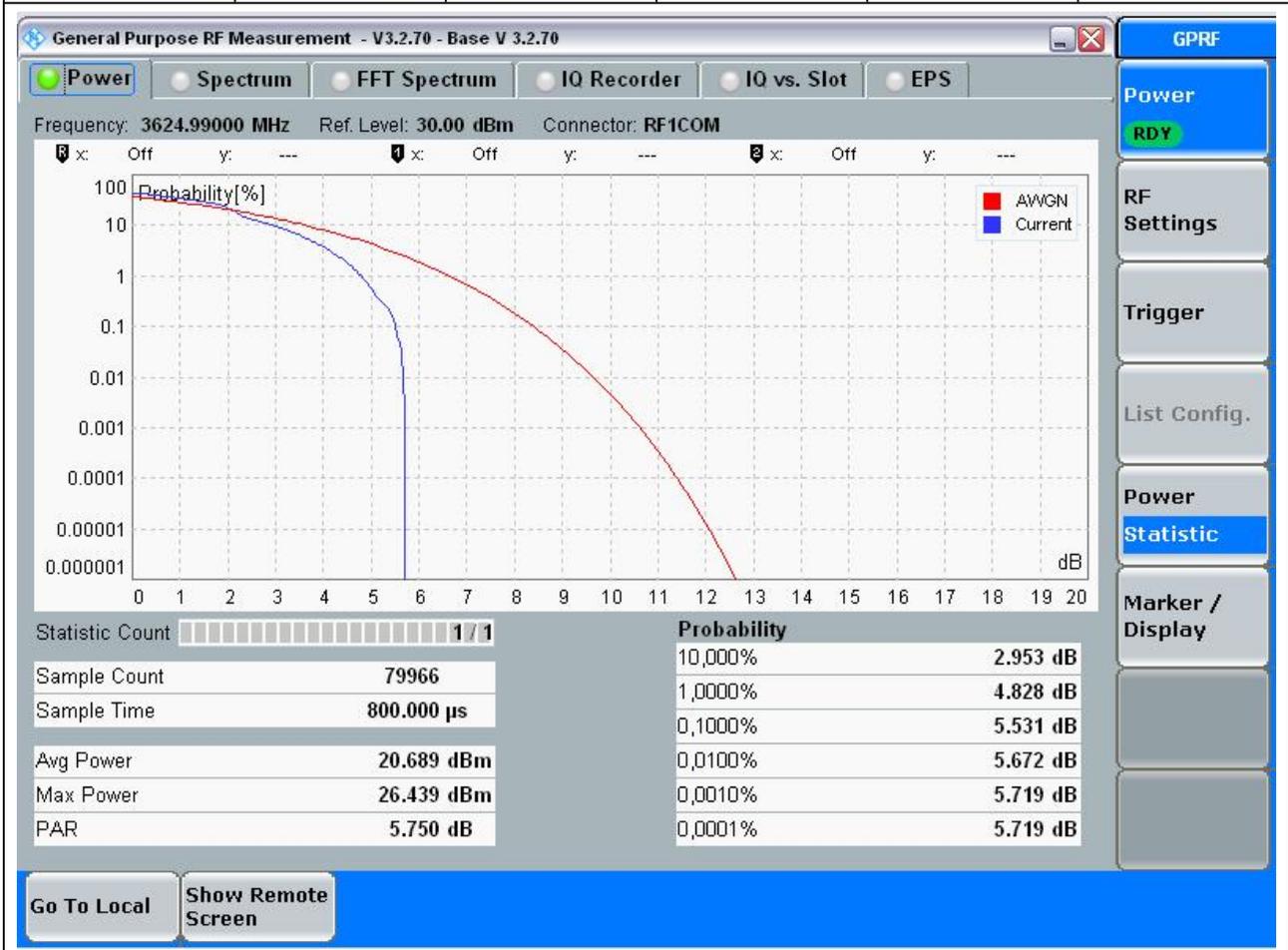
**1.16. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	6.19	13	Pass



**1.17. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	5.53	13	Pass



**1.18. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	6.42	13	Pass

**General Purpose RF Measurement - V3.2.70 - Base V 3.2.70**

Frequency: 3624.99000 MHz Ref. Level: 30.00 dBm Connector: RF1COM

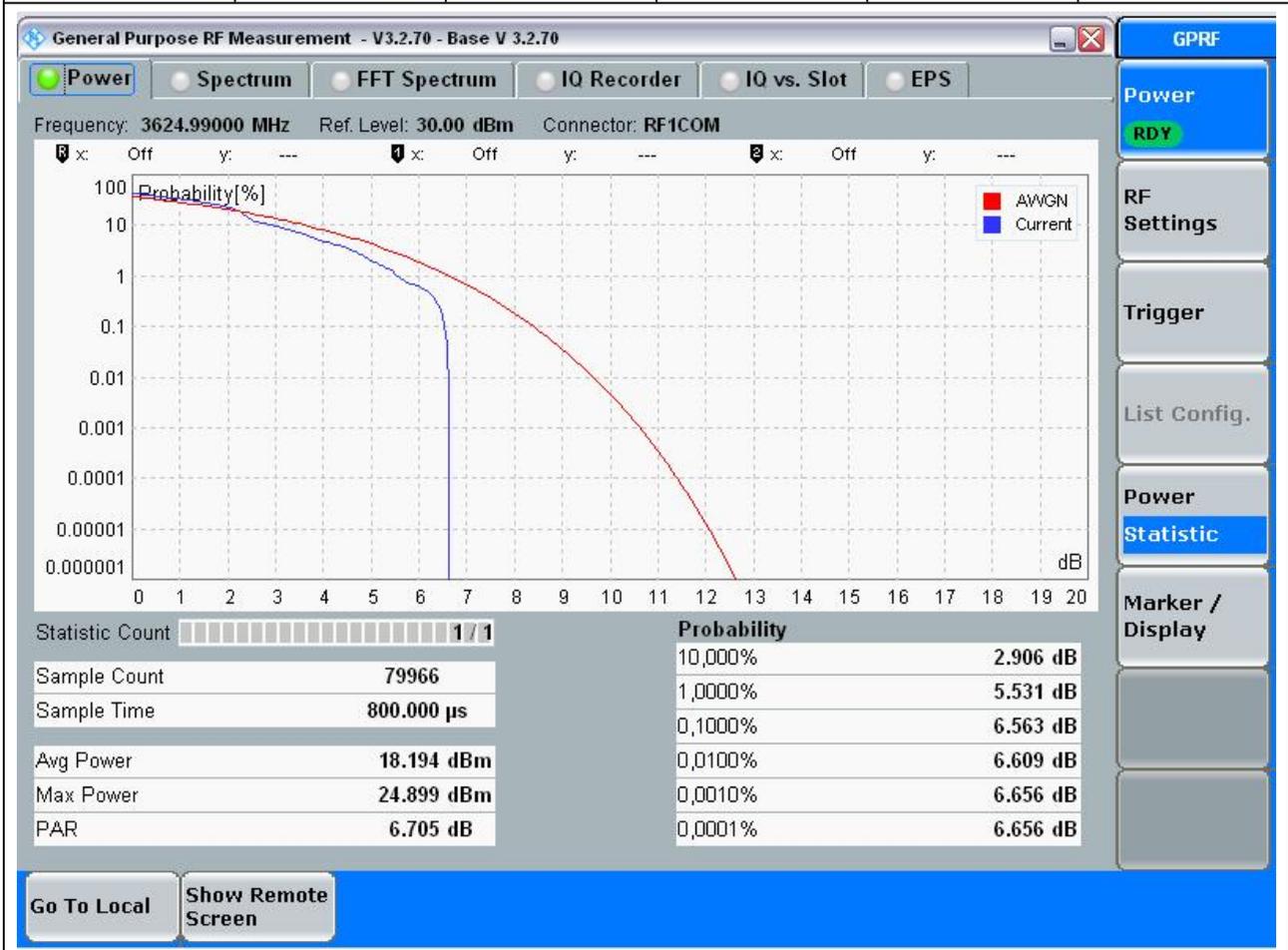
Graph: Probability[%] vs dB. Legend: AWGN (Red), Current (Blue).

Statistic Count	Sample Count	Sample Time	Avg Power	Max Power	PAR	Probability	Value (dB)
1 / 1	79966	800.000 μs	20.336 dBm	27.834 dBm	7.498 dB	10,000%	2.859 dB
						1,0000%	5.109 dB
						0,1000%	6.422 dB
						0,0100%	7.172 dB
						0,0010%	7.359 dB
						0,0001%	7.359 dB

Buttons: Go To Local, Show Remote Screen

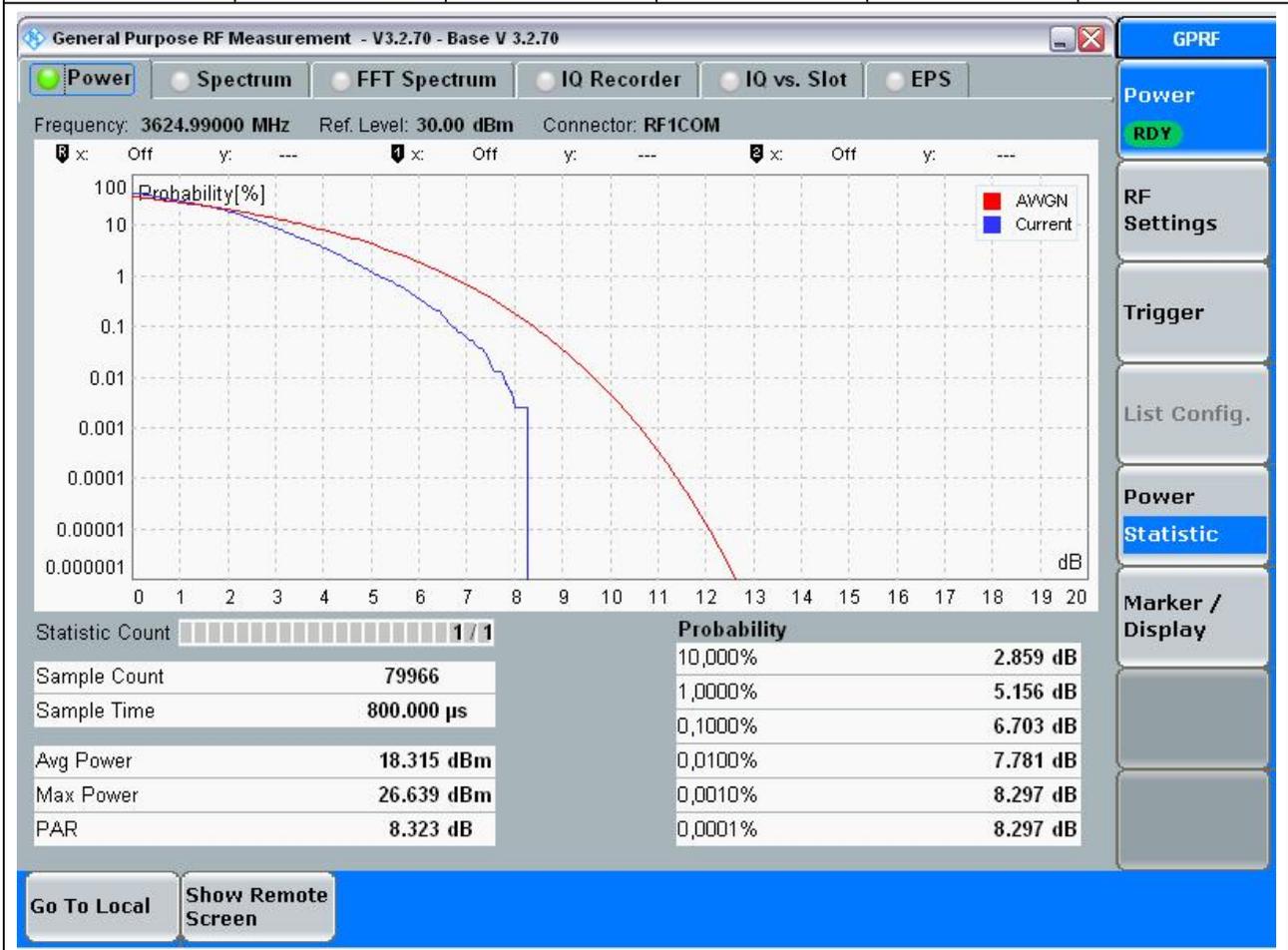
**1.19. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	6.56	13	Pass



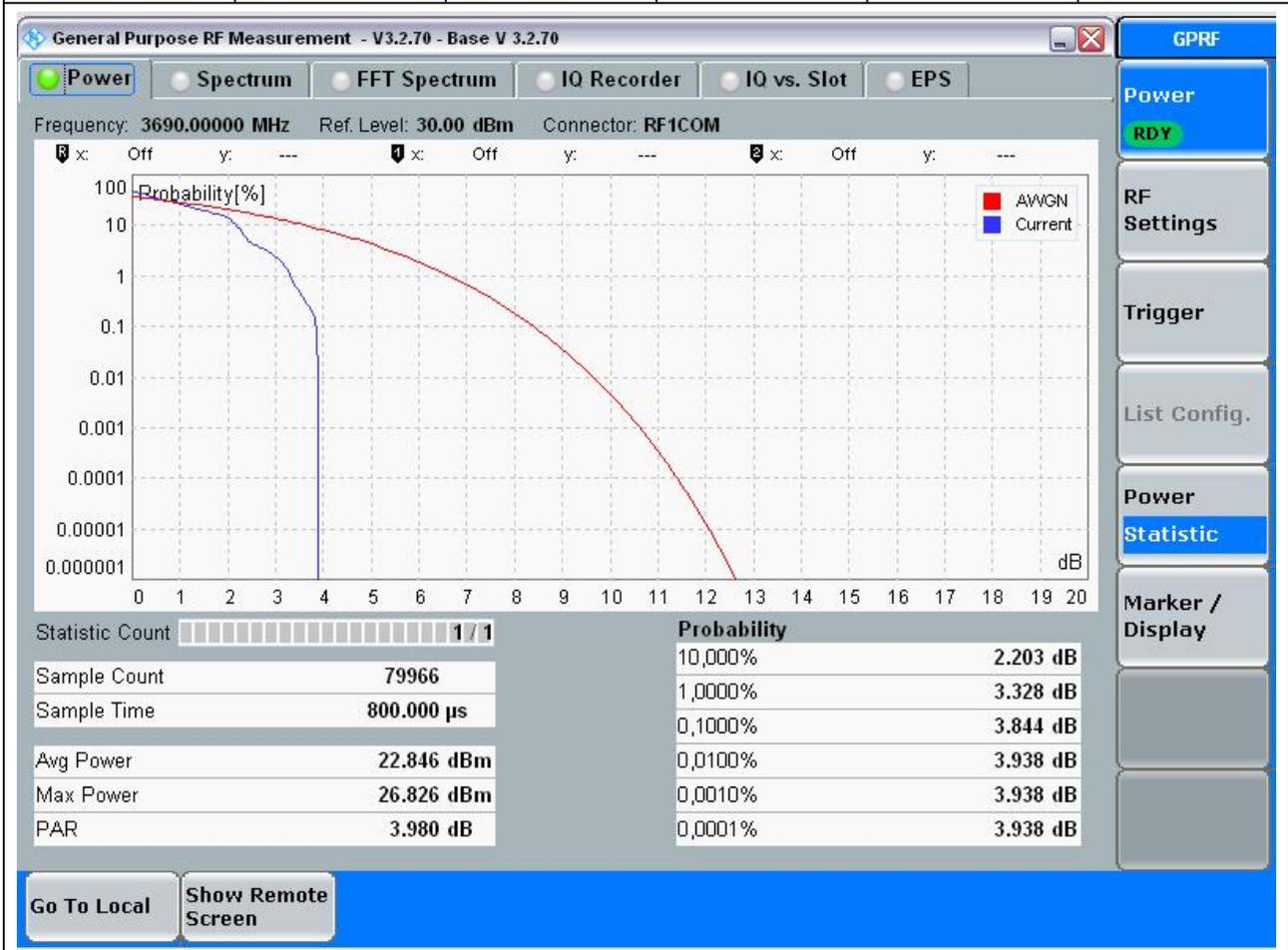
**1.20. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	20	6.7	13	Pass



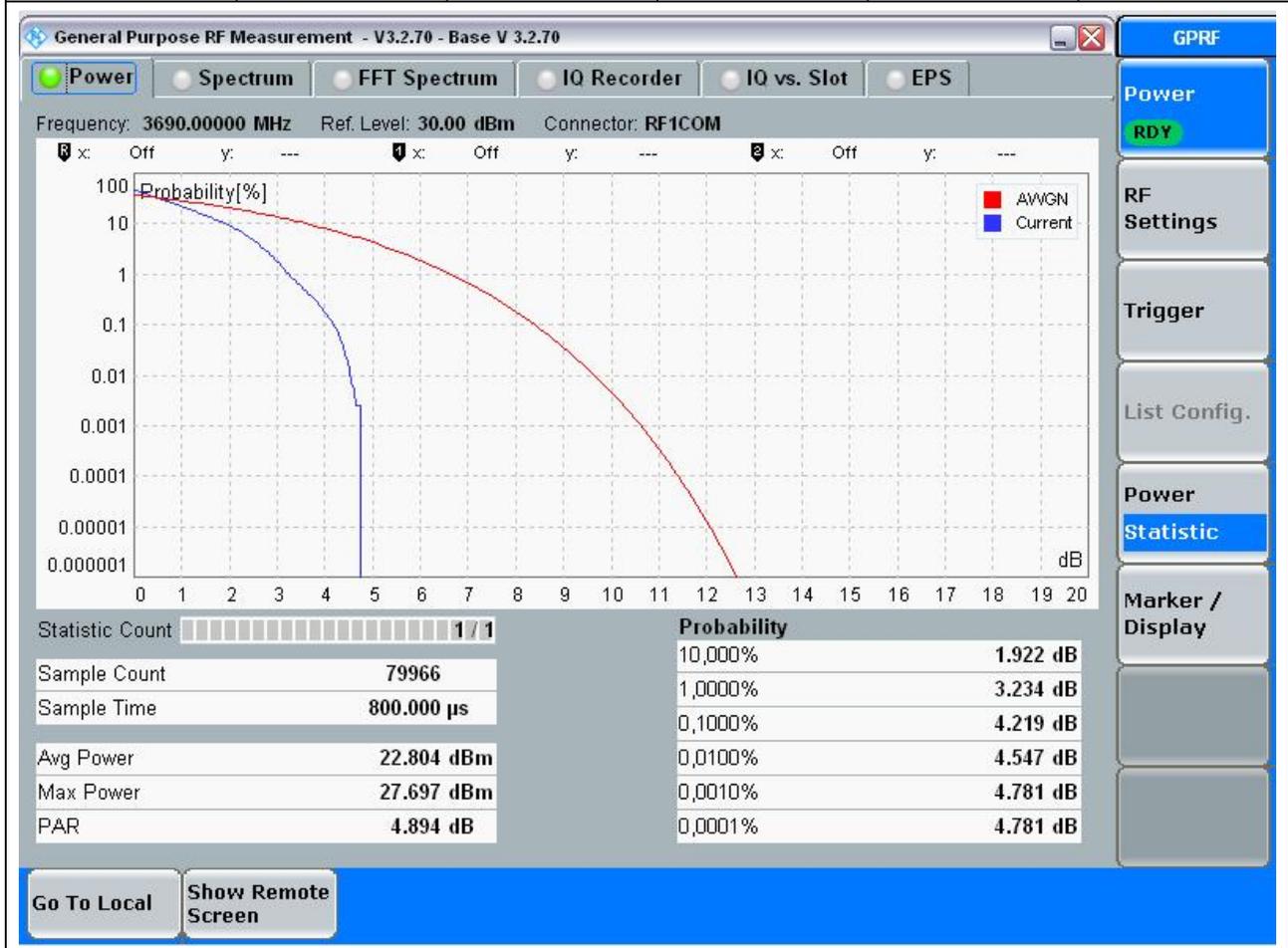
**1.21. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	3.84	13	Pass



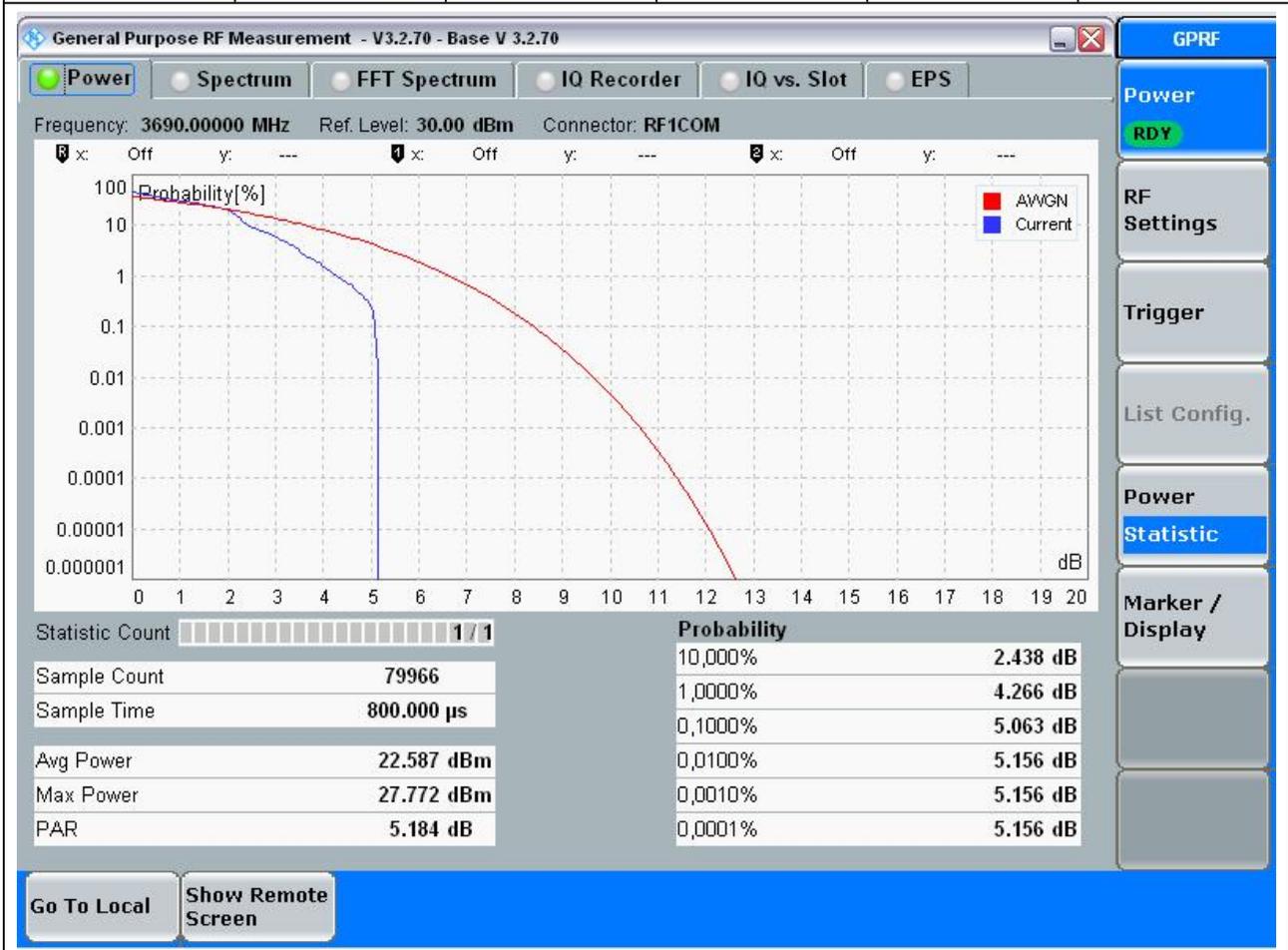
**1.22. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	4.22	13	Pass



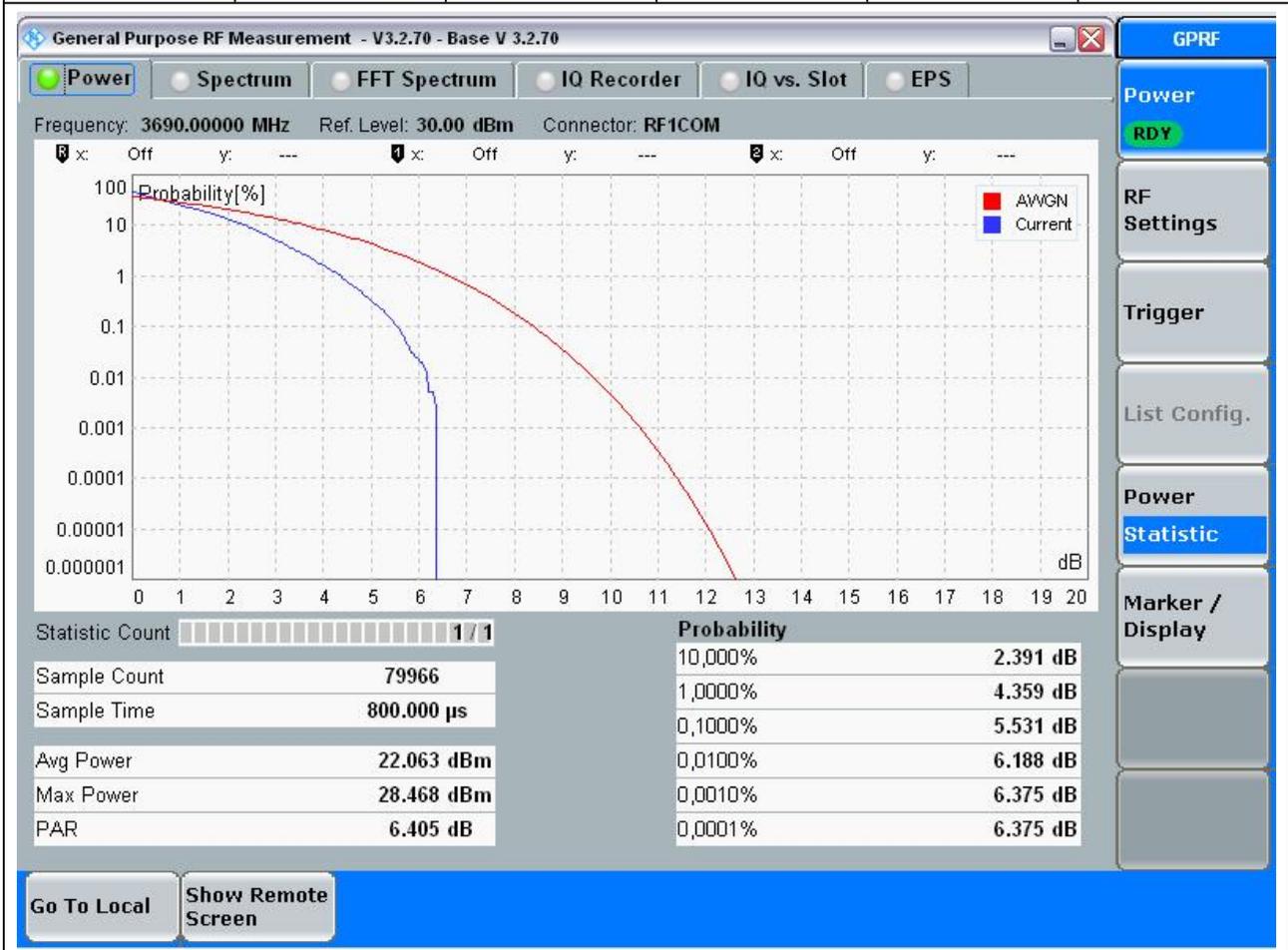
**1.23. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	5.06	13	Pass



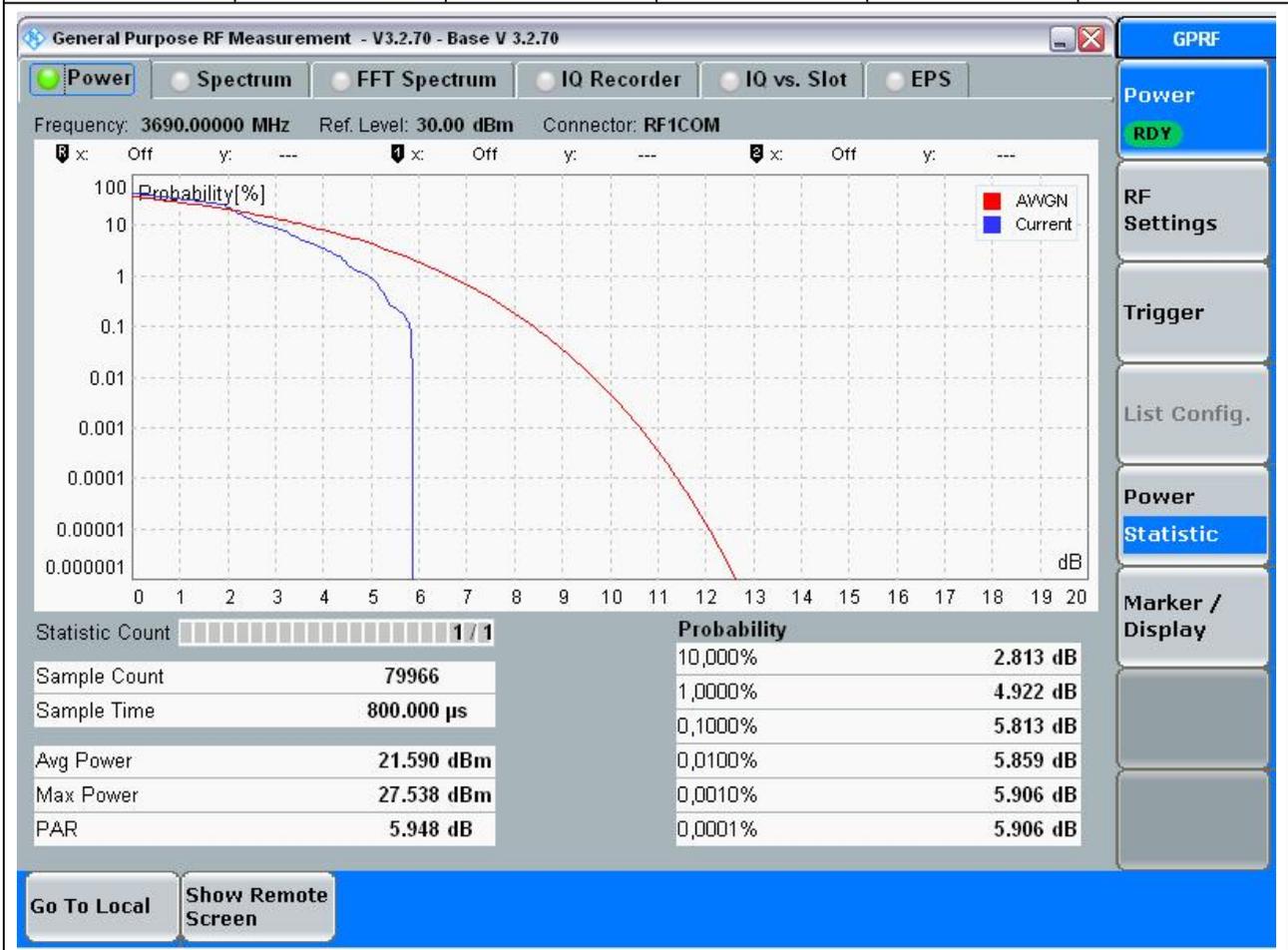
**1.24. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	5.53	13	Pass



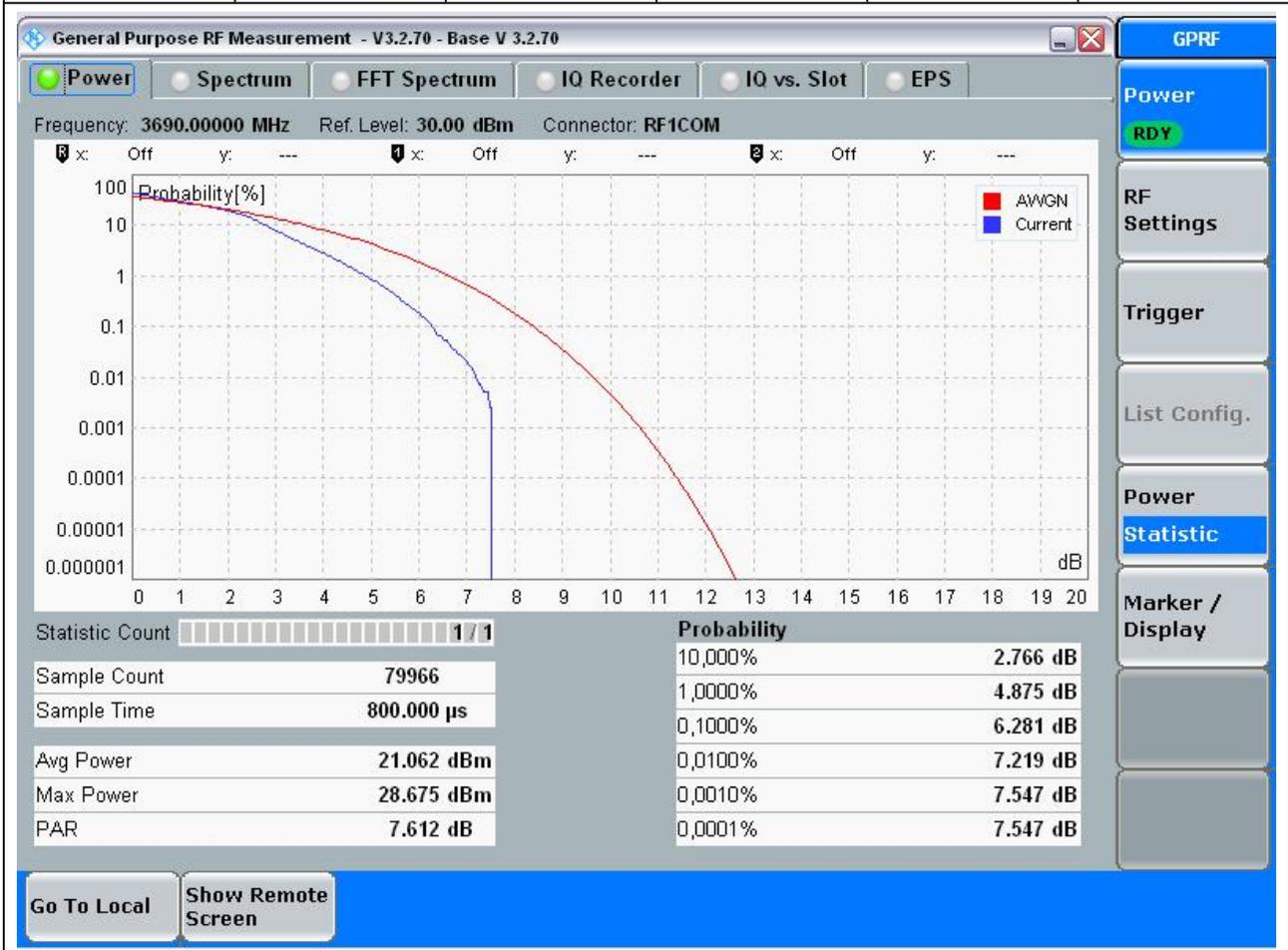
**1.25. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	5.81	13	Pass



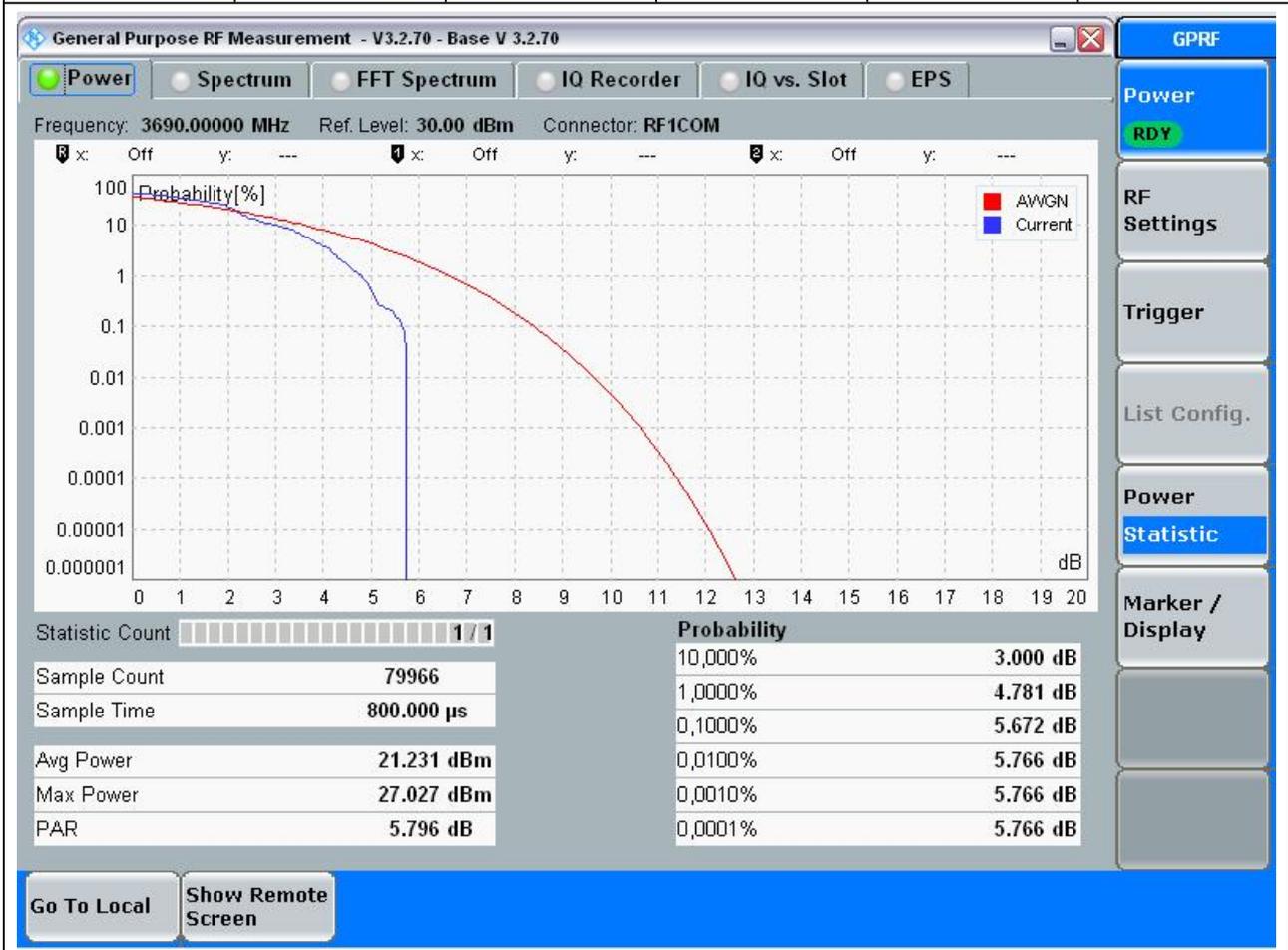
**1.26. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	6.28	13	Pass



**1.27. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	5.67	13	Pass



**1.28. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	6.37	13	Pass

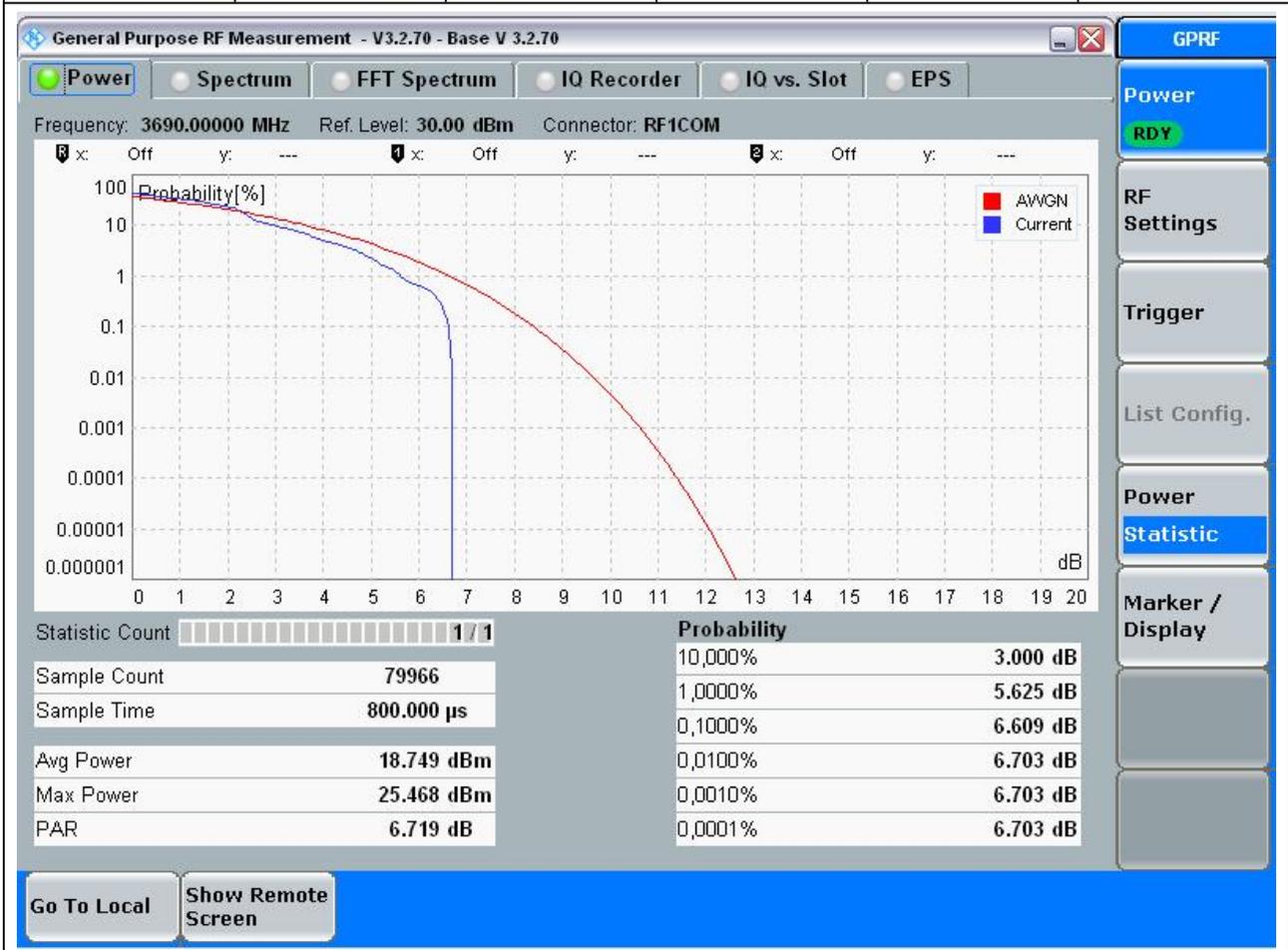
The screenshot shows the 'General Purpose RF Measurement' software interface. The main window displays a graph of Probability [%] versus dB. Two curves are shown: 'AWGN' (red) and 'Current' (blue). The 'Current' curve shows a sharp drop-off around 7.5 dB, while the 'AWGN' curve is much flatter. Below the graph is a statistics table.

Statistic Count		Probability	
Sample Count	79966	10,000%	2.813 dB
Sample Time	800.000 $\mu$ s	1,0000%	5.063 dB
Avg Power	20.583 dBm	0,1000%	6.375 dB
Max Power	28.170 dBm	0,0100%	7.219 dB
PAR	7.587 dB	0,0010%	7.359 dB
		0,0001%	7.359 dB

Additional parameters shown in the software interface include: Frequency: 3690.00000 MHz, Ref. Level: 30.00 dBm, Connector: RF1COM. The interface also features a sidebar with buttons for 'GPRF', 'Power RDY', 'RF Settings', 'Trigger', 'List Config.', 'Power Statistic', and 'Marker / Display'. At the bottom, there are buttons for 'Go To Local' and 'Show Remote Screen'.

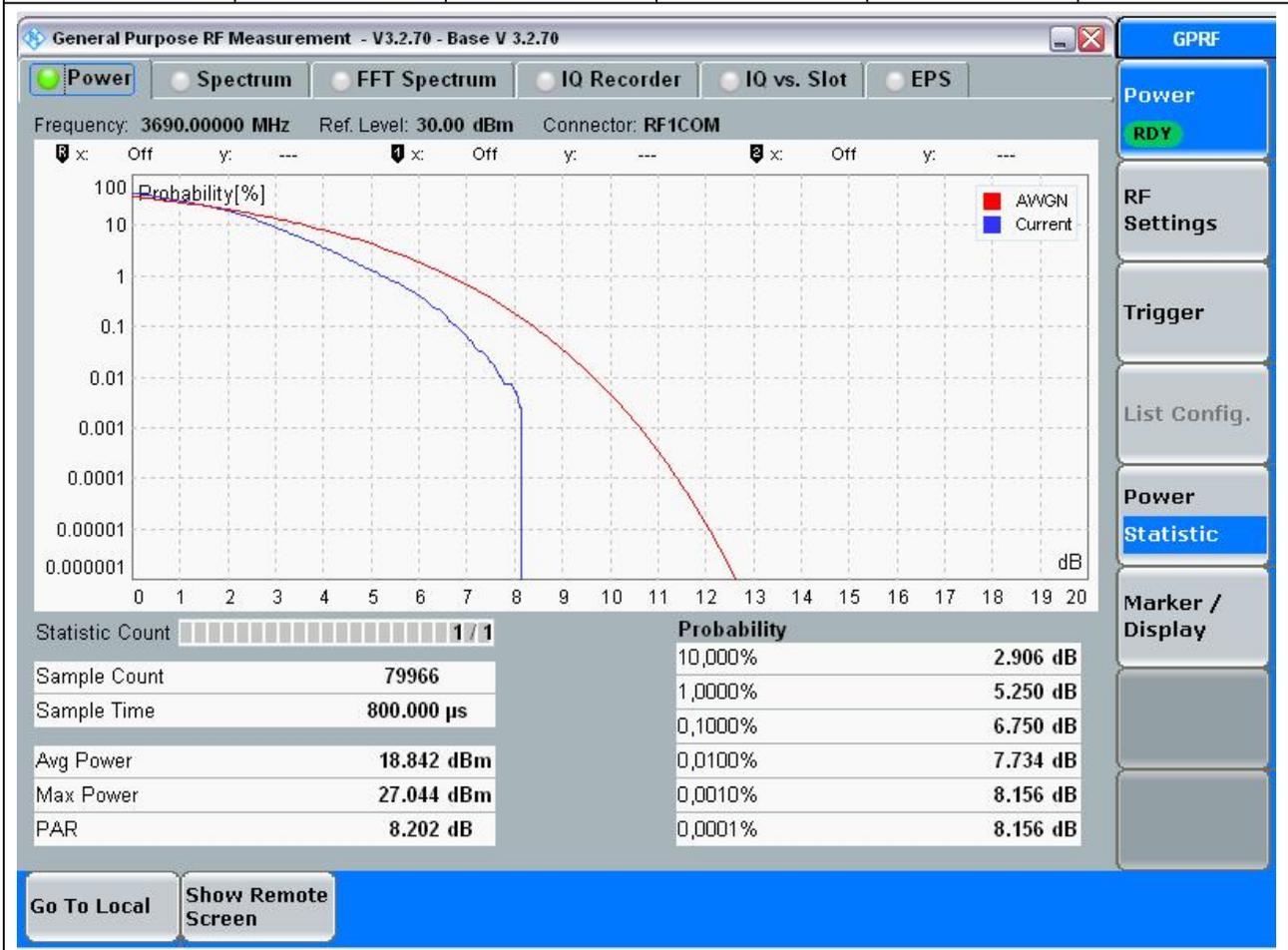
**1.29. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	6.61	13	Pass



**1.30. Peak to Average Ratio for SA\_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:50, RB Position:0)**

Center Frequency(MHz )	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	20	6.75	13	Pass



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