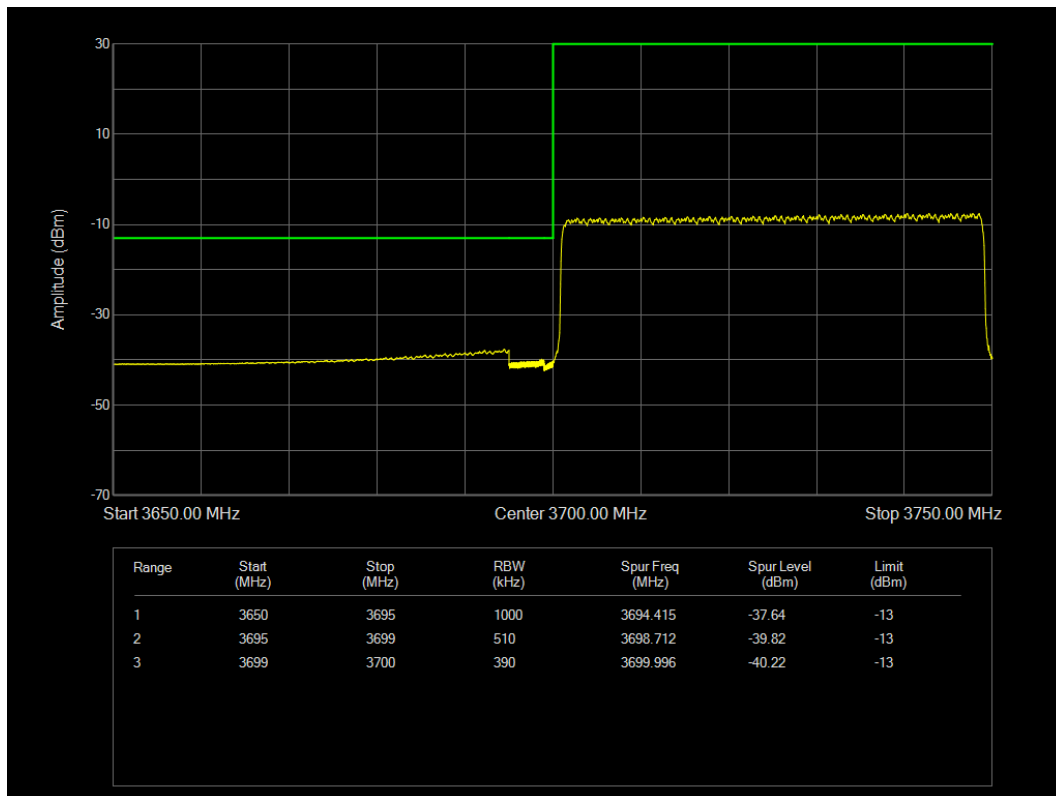
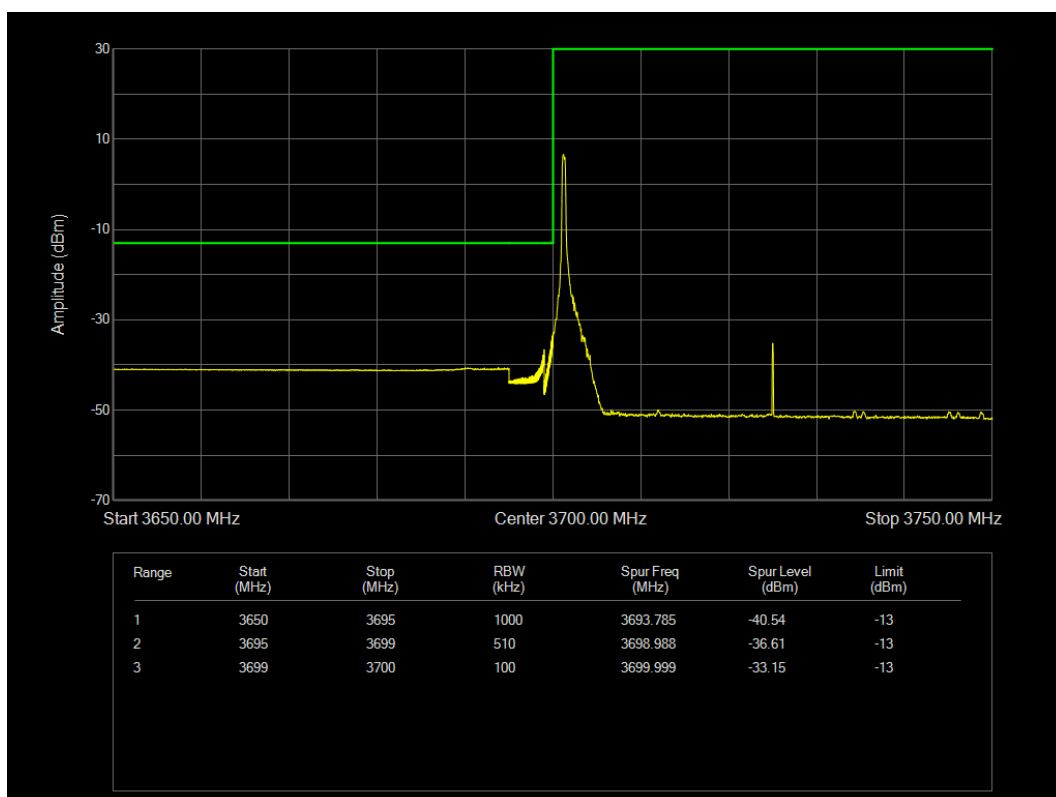
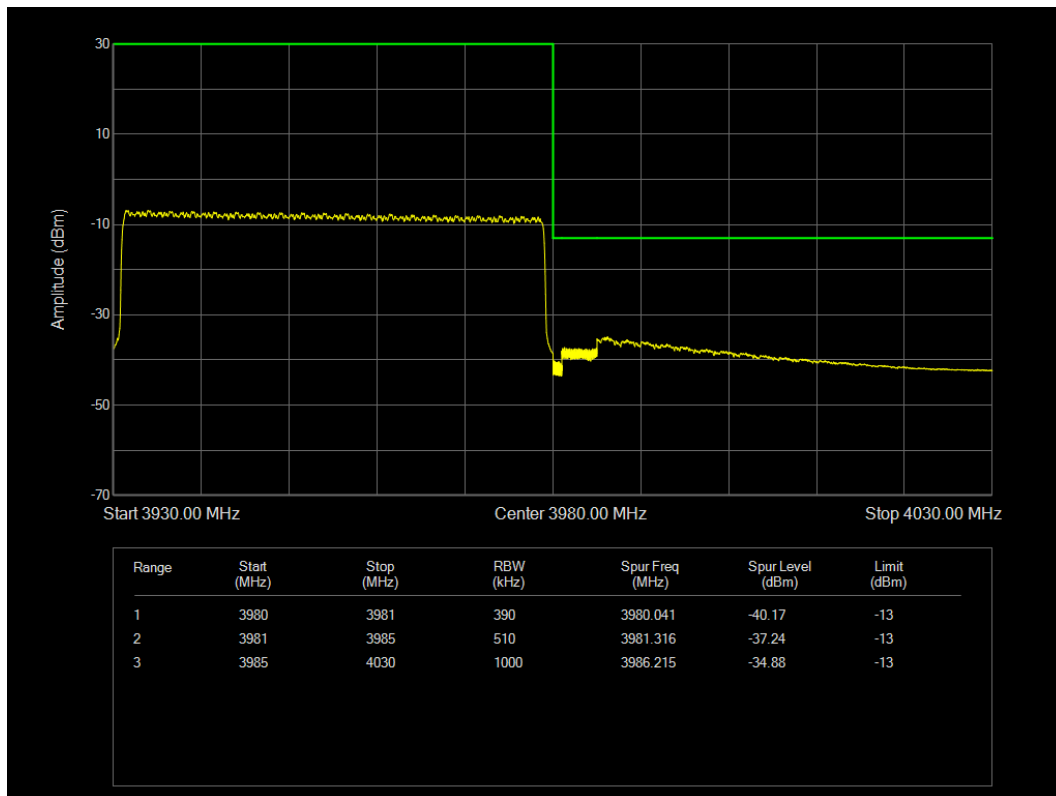




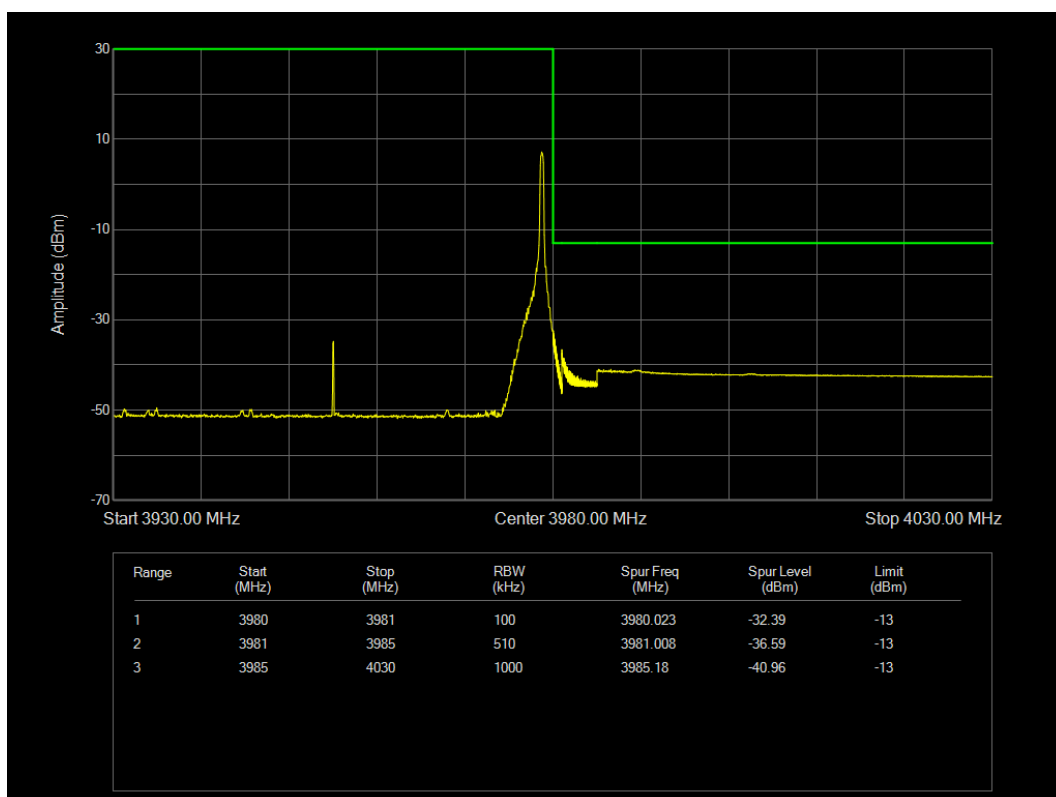
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=133@0



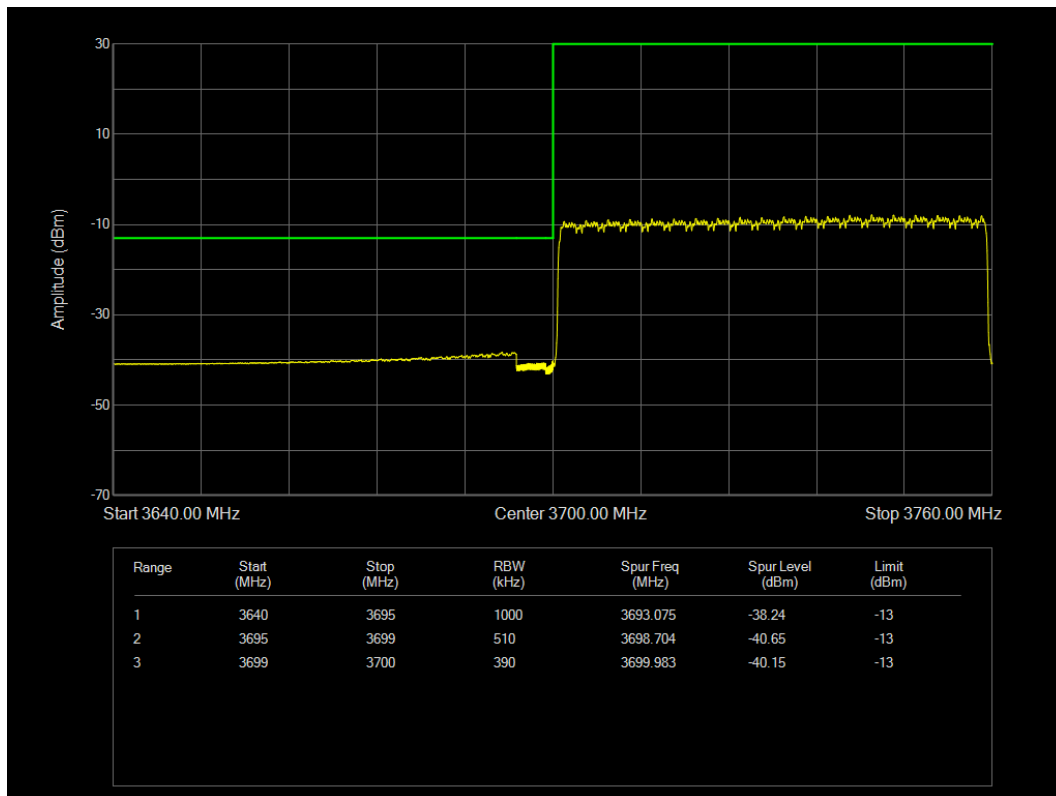
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=1@0



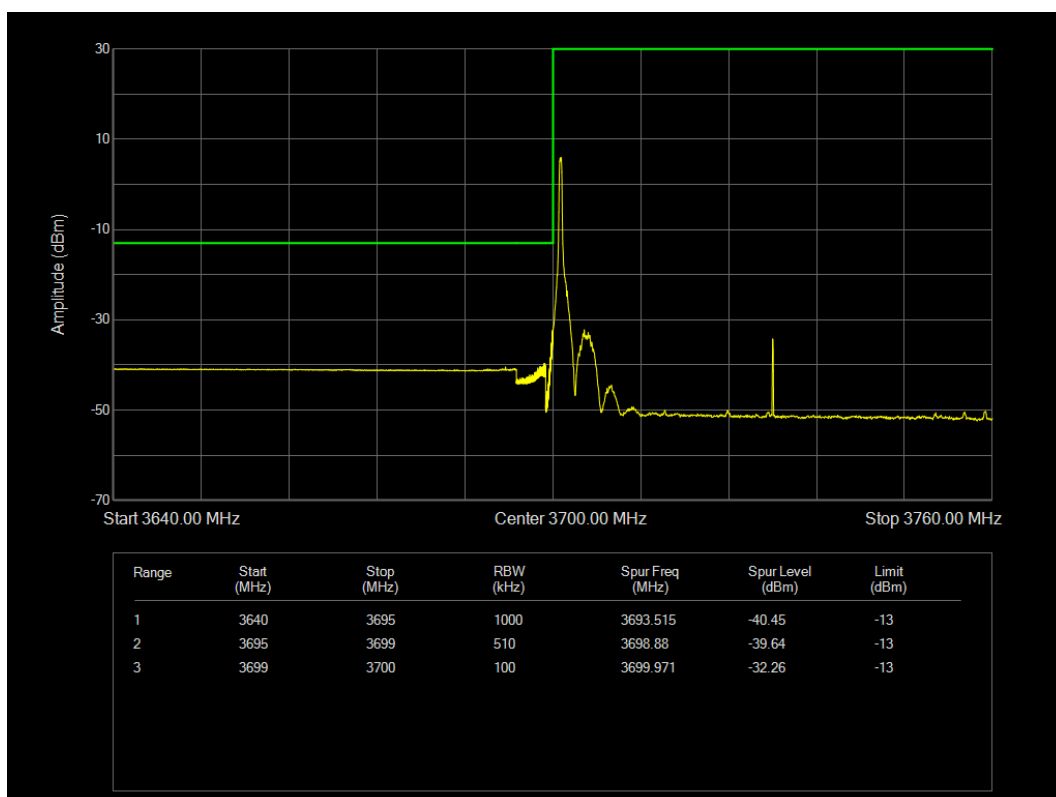
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=133@0



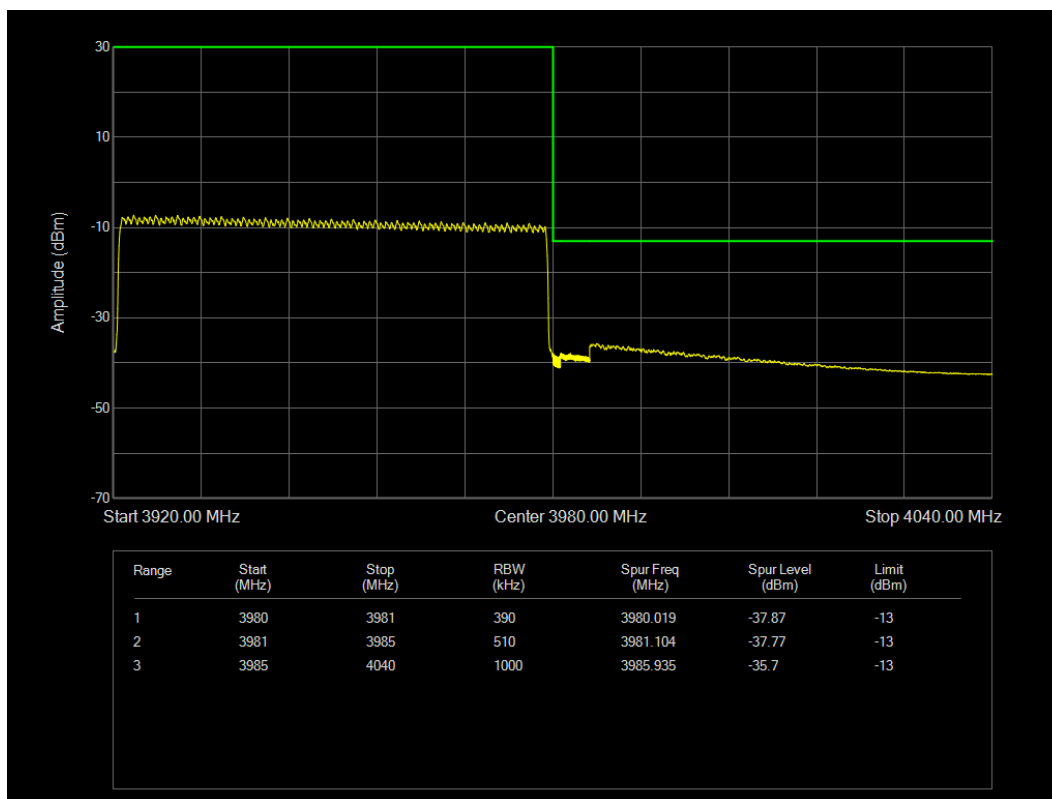
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=1@132



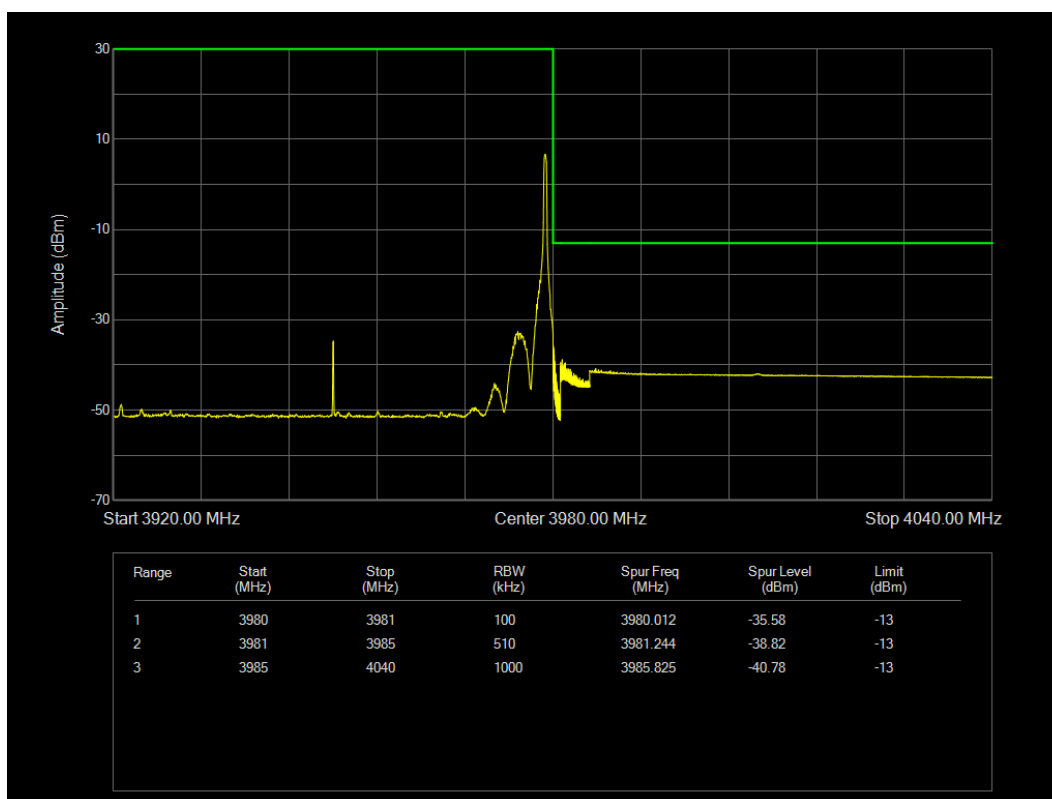
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=60MHz Channel=648668 RB=162@0



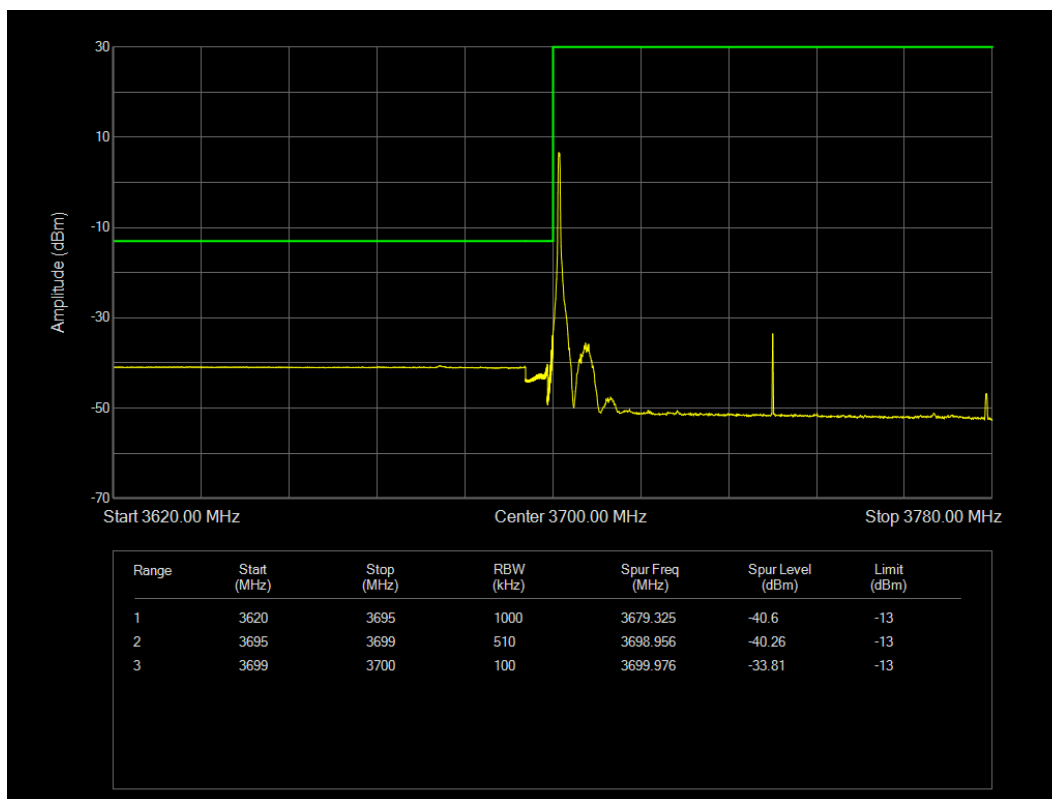
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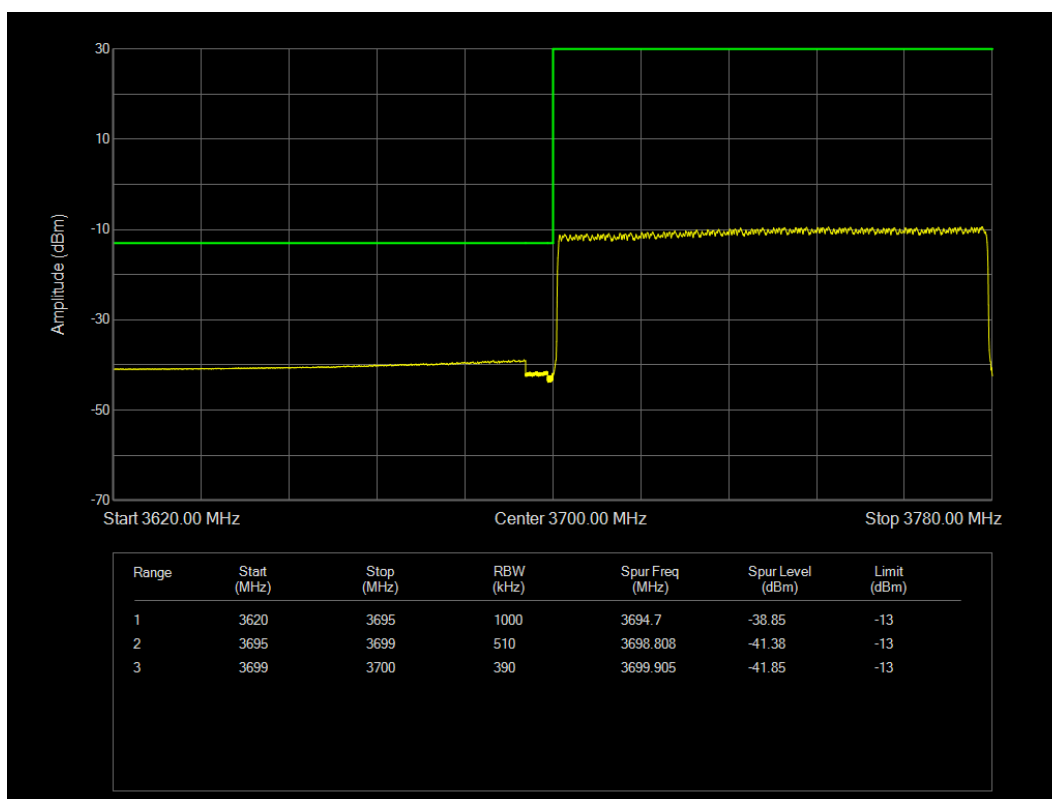
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=60MHz Channel=663332 RB=162@0



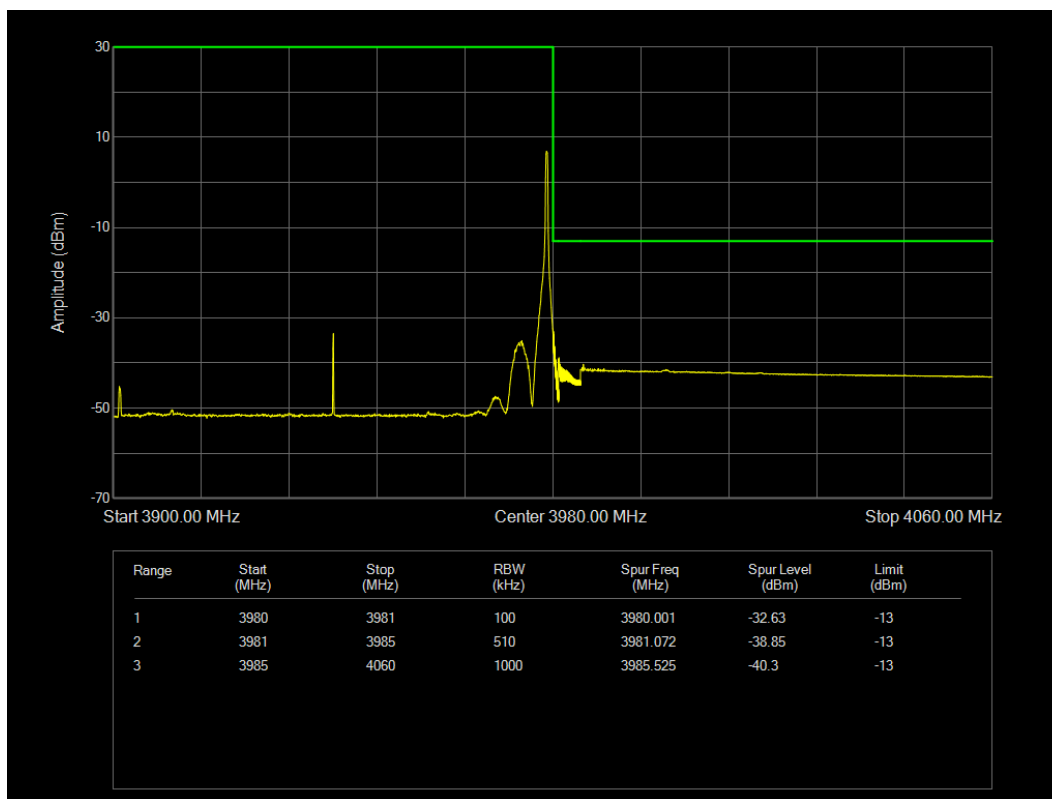
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=60MHz Channel=663332 RB=1@161



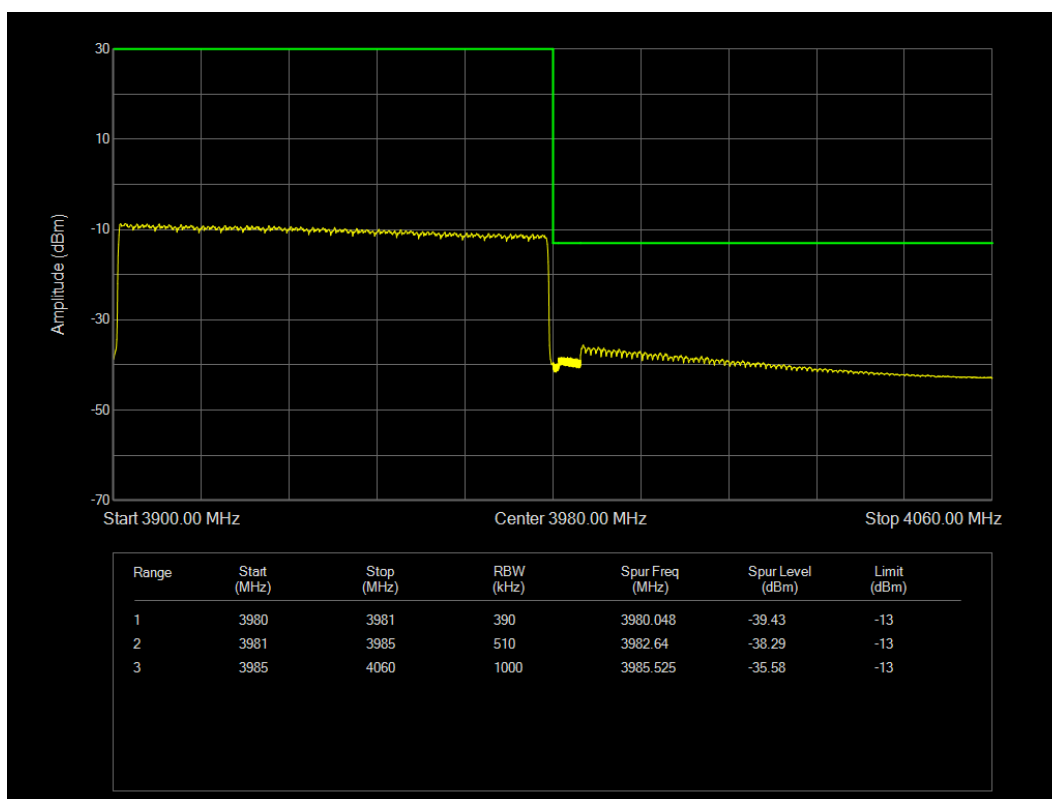
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=80MHz Channel=649334 RB=1@0



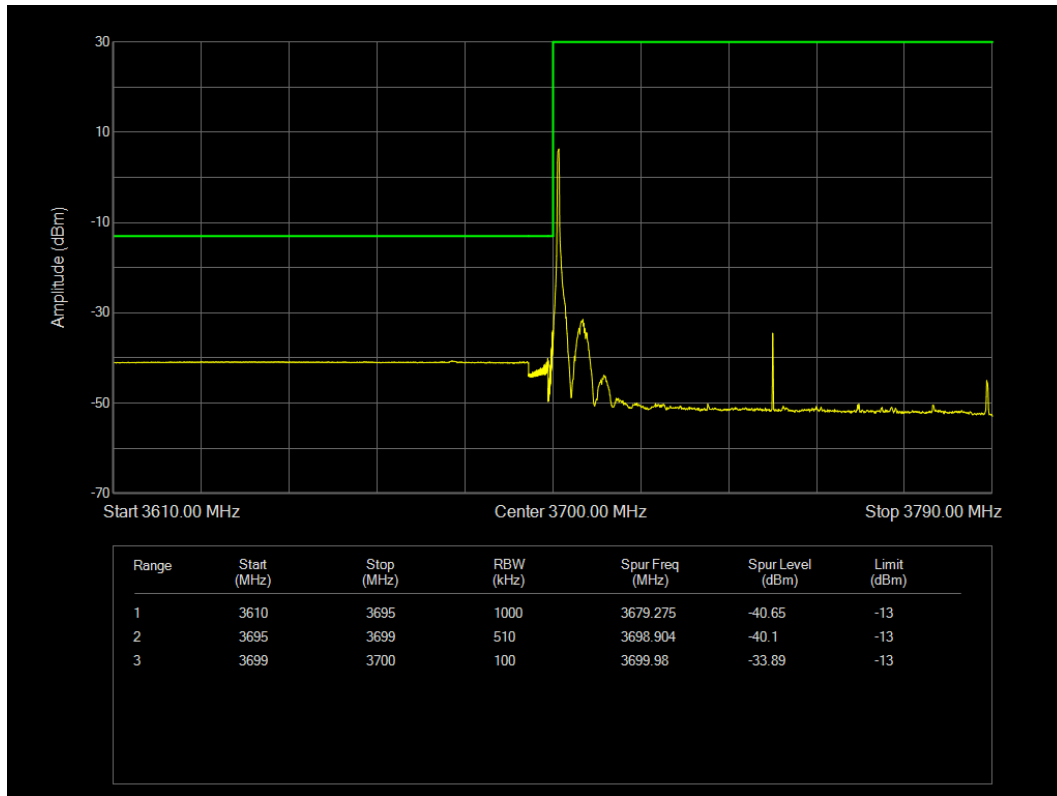
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=80MHz Channel=649334 RB=217@0



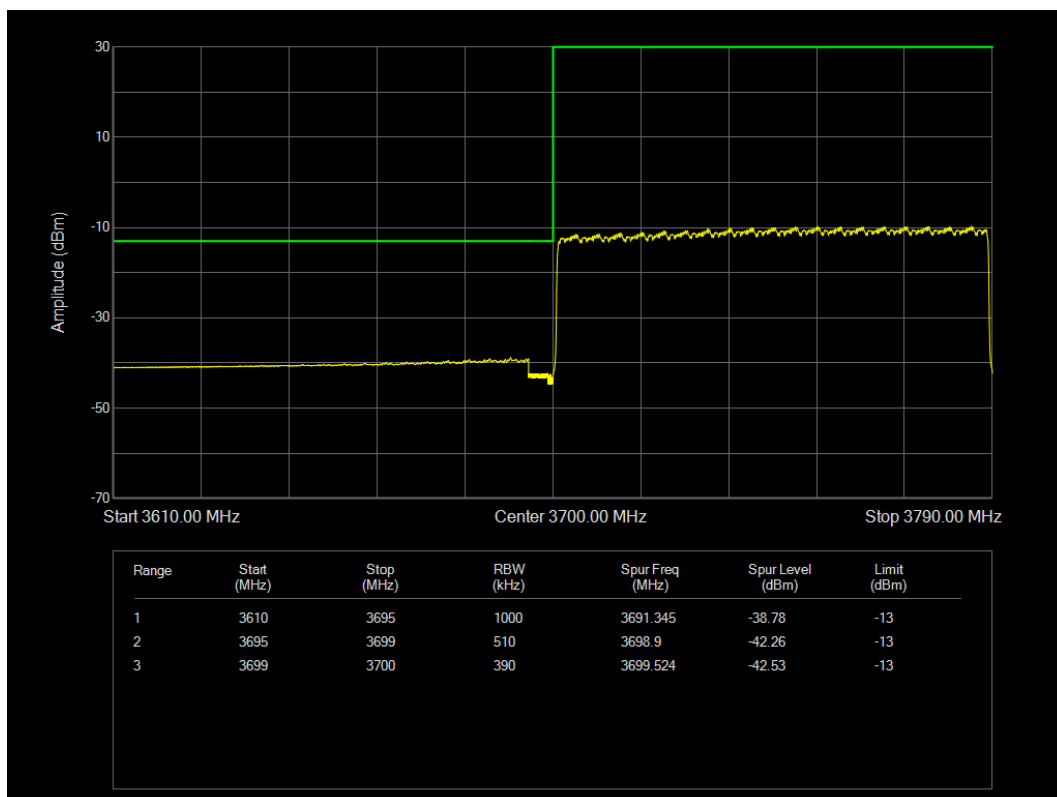
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=80MHz Channel=662666 RB=1@216



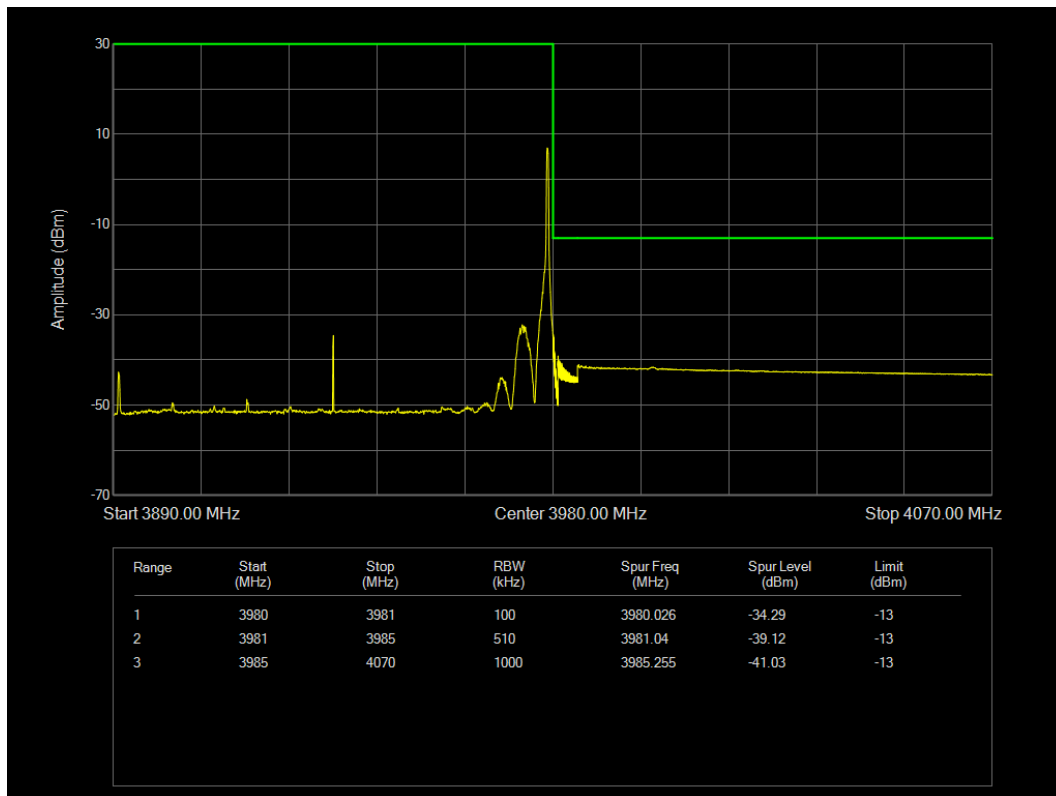
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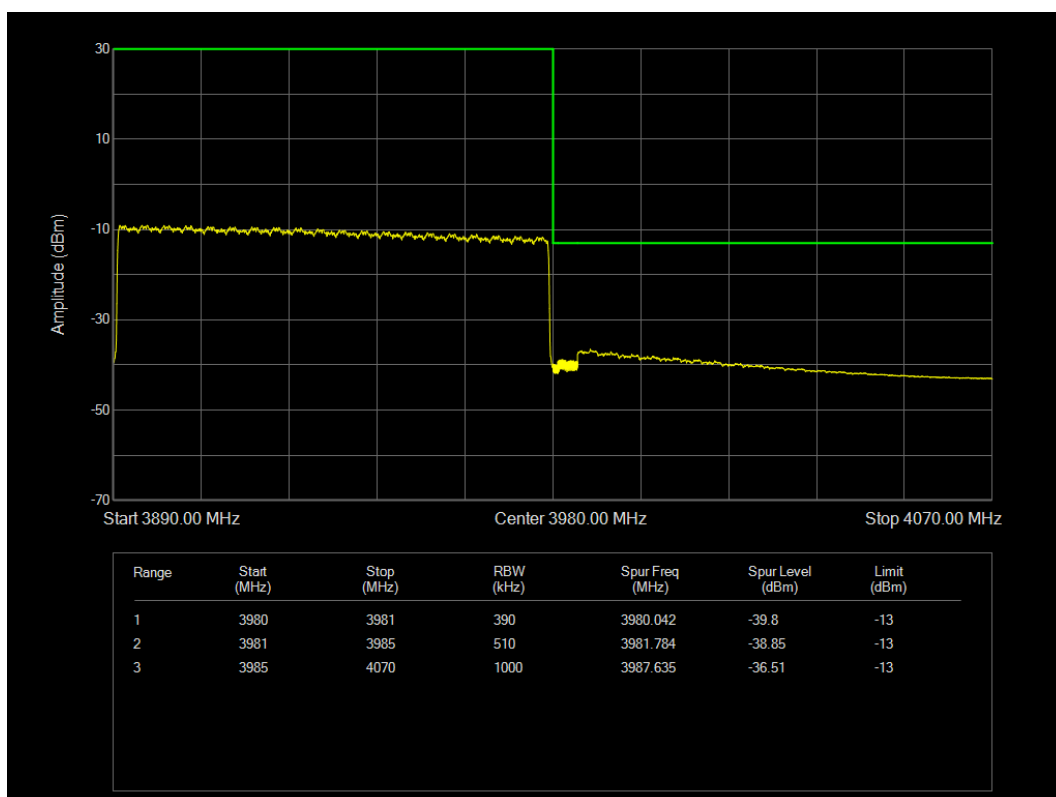
MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=649668 RB=1@0



MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=649668 RB=245@0



MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=662332 RB=1@244



MIMO\PC3\NR n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz Channel=662332 RB=245@0

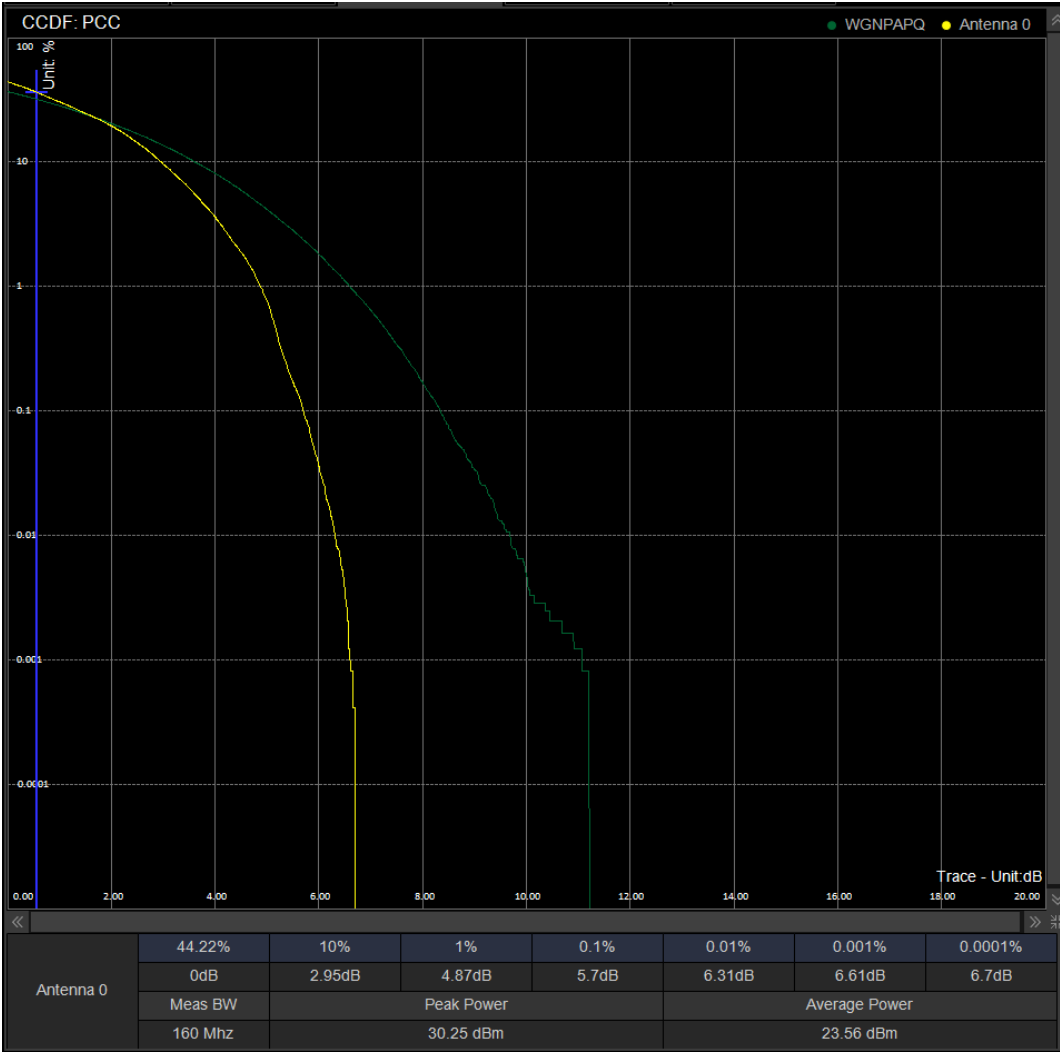
6.4 Peak-to-Average Power Ratio (PAPR)

SA NR n77 (3450-3550) PC2	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	10M	100%	M	DFT	BPSK	4.69	≤13	PASS
					QPSK	4.58	≤13	PASS
					16QAM	5.38	≤13	PASS
					64QAM	5.78	≤13	PASS
					256QAM	6.03	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	50M	100%	M	DFT	BPSK	3.71	≤13	PASS
					QPSK	4.65	≤13	PASS
					16QAM	5.25	≤13	PASS
					64QAM	5.20	≤13	PASS
					256QAM	5.60	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	100M	100%	M	DFT	BPSK	5.14	≤13	PASS
					QPSK	5.13	≤13	PASS
					16QAM	5.70	≤13	PASS
					64QAM	5.97	≤13	PASS
					256QAM	6.29	≤13	PASS
SA NR n77 (3450-3550) PC3	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	10M	100%	M	DFT	BPSK	4.12	≤13	PASS
					QPSK	5.33	≤13	PASS
					16QAM	5.94	≤13	PASS
					64QAM	5.98	≤13	PASS
					256QAM	6.38	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	50M	100%	M	DFT	BPSK	5.16	≤13	PASS
					QPSK	5.19	≤13	PASS
					16QAM	5.93	≤13	PASS
					64QAM	6.24	≤13	PASS
					256QAM	6.52	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	100M	100%	M	DFT	BPSK	5.13	≤13	PASS
					QPSK	5.41	≤13	PASS
					16QAM	6.14	≤13	PASS
					64QAM	6.11	≤13	PASS

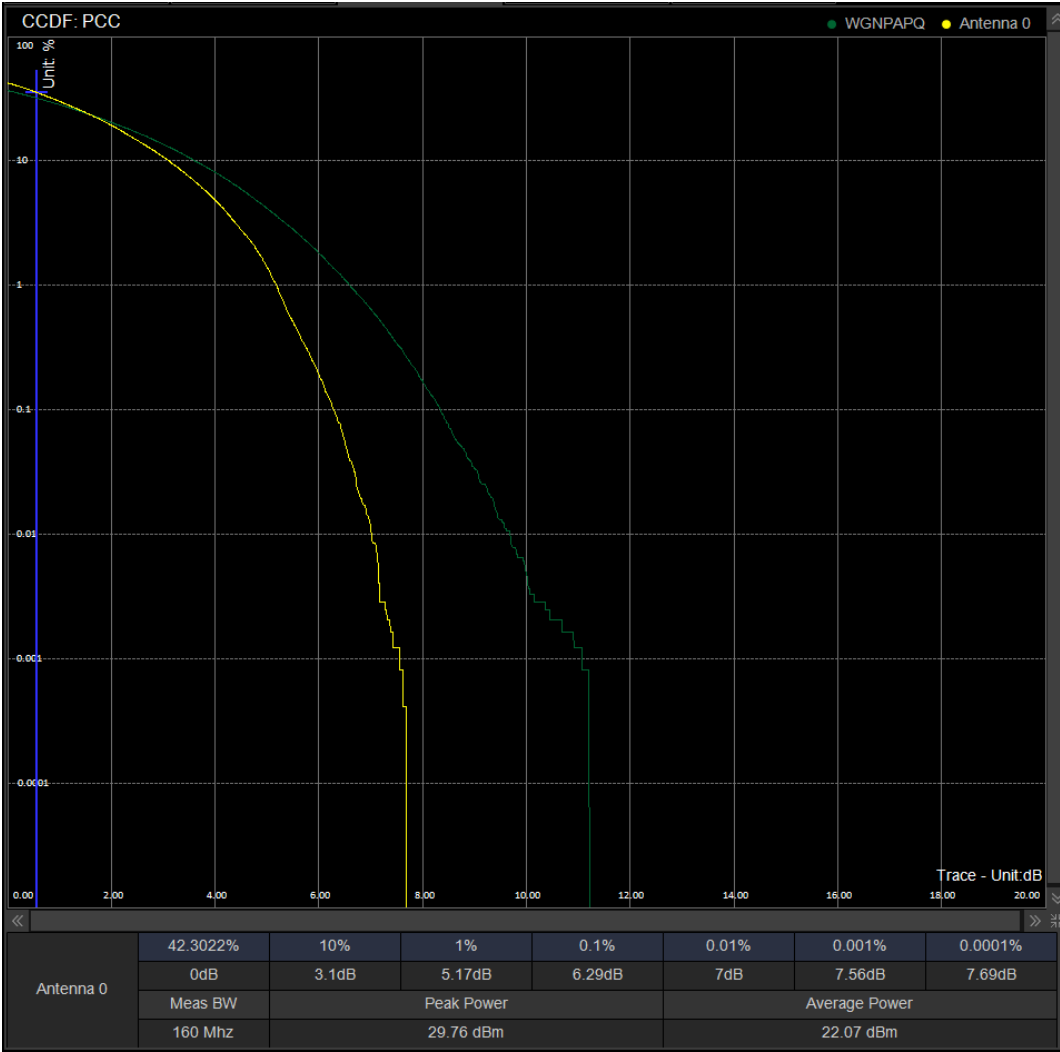
					256QAM	6.37	≤13	PASS
SA NR n77 (3700-3980) PC2	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	10M	100%	M	DFT	BPSK	3.58	≤13	PASS
					QPSK	4.61	≤13	PASS
					16QAM	5.16	≤13	PASS
					64QAM	5.18	≤13	PASS
					256QAM	5.54	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	50M	100%	M	DFT	BPSK	4.47	≤13	PASS
					QPSK	4.75	≤13	PASS
					16QAM	5.22	≤13	PASS
					64QAM	5.60	≤13	PASS
					256QAM	6.08	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	100M	100%	M	DFT	BPSK	4.65	≤13	PASS
					QPSK	5.09	≤13	PASS
					16QAM	5.67	≤13	PASS
					64QAM	5.67	≤13	PASS
					256QAM	5.93	≤13	PASS
SA NR n77 (3700-3980) PC3	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	10M	100%	M	DFT	BPSK	5.03	≤13	PASS
					QPSK	5.00	≤13	PASS
					16QAM	5.93	≤13	PASS
					64QAM	5.94	≤13	PASS
					256QAM	6.50	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	50M	100%	M	DFT	BPSK	4.28	≤13	PASS
					QPSK	5.13	≤13	PASS
					16QAM	5.90	≤13	PASS
					64QAM	5.98	≤13	PASS
					256QAM	6.07	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB)	Limit (dB)	Conclusion
	100M	100%	M	DFT	BPSK	5.38	≤13	PASS
					QPSK	5.29	≤13	PASS
					16QAM	6.02	≤13	PASS
					64QAM	6.26	≤13	PASS
					256QAM	6.53	≤13	PASS

MIMO NR n77 (3450-3550) PC2	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	10M	100%	M	CP	QPSK	8.24	8.40	≤13	PASS
					16QAM	8.26	8.22	≤13	PASS
					64QAM	8.21	8.45	≤13	PASS
					256QAM	8.33	8.26	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	50M	100%	M	CP	QPSK	8.03	8.10	≤13	PASS
					16QAM	8.03	8.21	≤13	PASS
					64QAM	8.20	8.19	≤13	PASS
					256QAM	8.24	8.21	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	100M	100%	M	CP	QPSK	8.15	8.29	≤13	PASS
					16QAM	8.21	8.31	≤13	PASS
					64QAM	8.25	8.32	≤13	PASS
					256QAM	8.35	8.33	≤13	PASS
MIMO NR n77 (3450-3550) PC3	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	10M	100%	M	CP	QPSK	7.81	8.15	≤13	PASS
					16QAM	7.83	8.03	≤13	PASS
					64QAM	8.00	8.13	≤13	PASS
					256QAM	8.27	8.34	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	50M	100%	M	CP	QPSK	7.94	8.02	≤13	PASS
					16QAM	7.89	7.95	≤13	PASS
					64QAM	7.99	8.21	≤13	PASS
					256QAM	8.38	8.31	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	100M	100%	M	CP	QPSK	8.10	8.23	≤13	PASS
					16QAM	8.04	8.18	≤13	PASS
					64QAM	8.18	8.27	≤13	PASS
					256QAM	8.44	8.40	≤13	PASS
MIMO NR n77 (3700-3980) PC2	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	10M	100%	M	CP	QPSK	7.95	8.21	≤13	PASS
					16QAM	8.06	8.34	≤13	PASS
					64QAM	7.89	8.17	≤13	PASS
					256QAM	8.14	8.41	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion

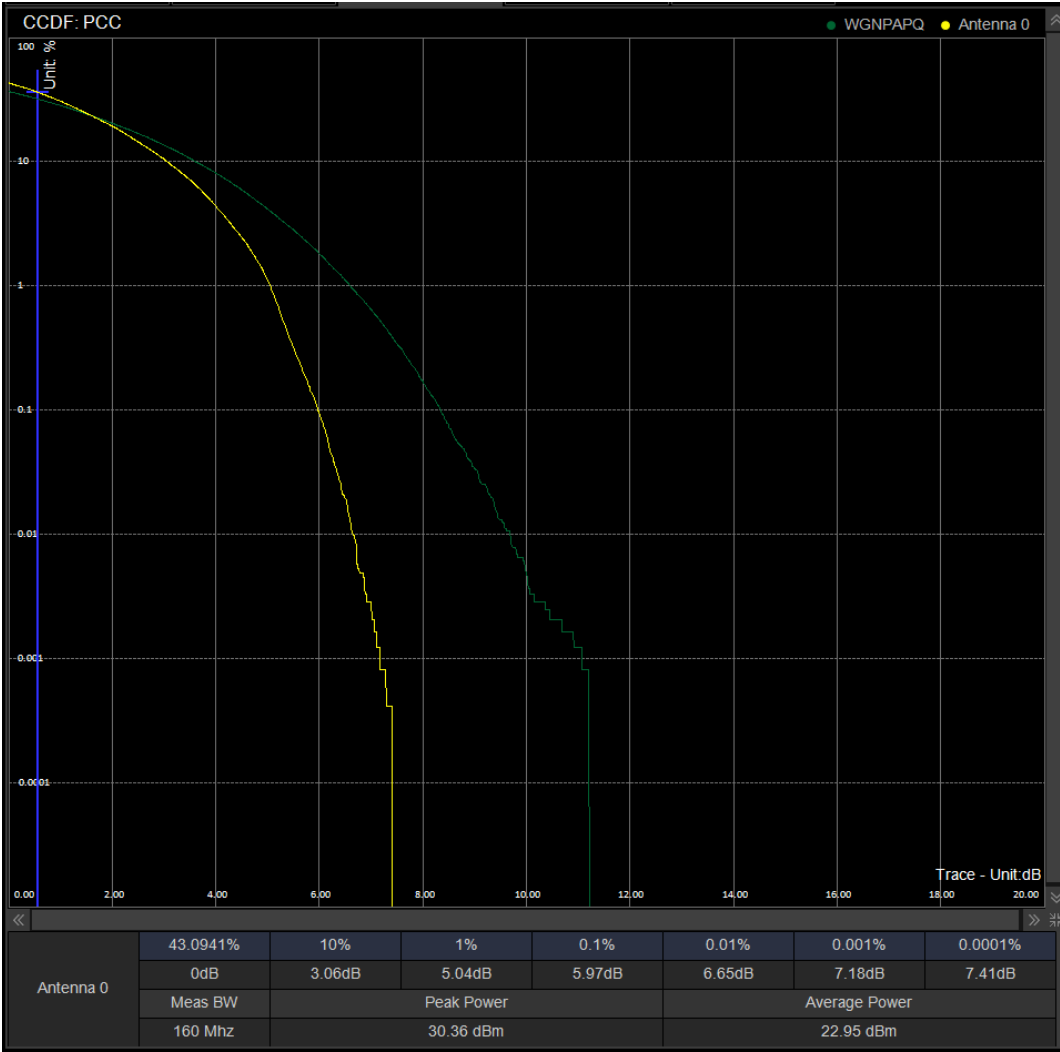
	50M	100%	M	CP	QPSK	7.91	8.22	≤13	PASS
					16QAM	7.97	8.16	≤13	PASS
					64QAM	7.97	8.18	≤13	PASS
					256QAM	8.32	8.34	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	100M	100%	M	CP	QPSK	8.09	8.32	≤13	PASS
					16QAM	8.07	8.32	≤13	PASS
					64QAM	8.16	8.26	≤13	PASS
					256QAM	8.39	8.40	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
MIMO NR n77 (3700-3980) PC3	10M	100%	M	CP	QPSK	7.80	7.92	≤13	PASS
					16QAM	7.88	8.31	≤13	PASS
					64QAM	7.90	8.20	≤13	PASS
					256QAM	8.08	8.27	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	50M	100%	M	CP	QPSK	7.81	7.97	≤13	PASS
					16QAM	7.76	8.12	≤13	PASS
					64QAM	7.90	8.12	≤13	PASS
					256QAM	8.39	8.24	≤13	PASS
	Bandwidth (MHz)	RB	Channel	Modulation		PAPR (dB) ANT0	PAPR (dB) ANT1	Limit (dB)	Conclusion
	100M	100%	M	CP	QPSK	8.07	8.21	≤13	PASS
					16QAM	7.95	8.14	≤13	PASS
					64QAM	8.14	8.24	≤13	PASS
					256QAM	8.38	8.36	≤13	PASS



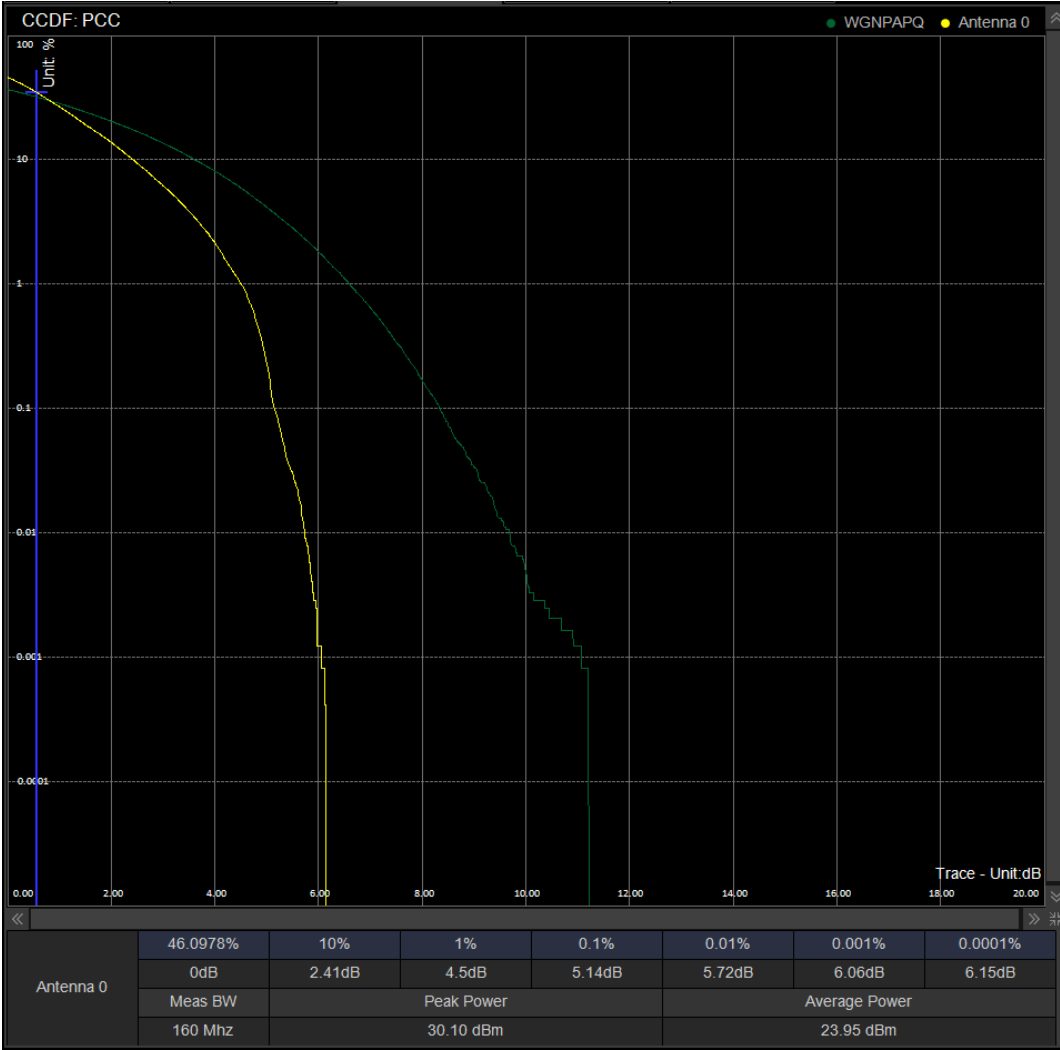
SA\PC2\NR n77(3450-3550)\100M 16QAM



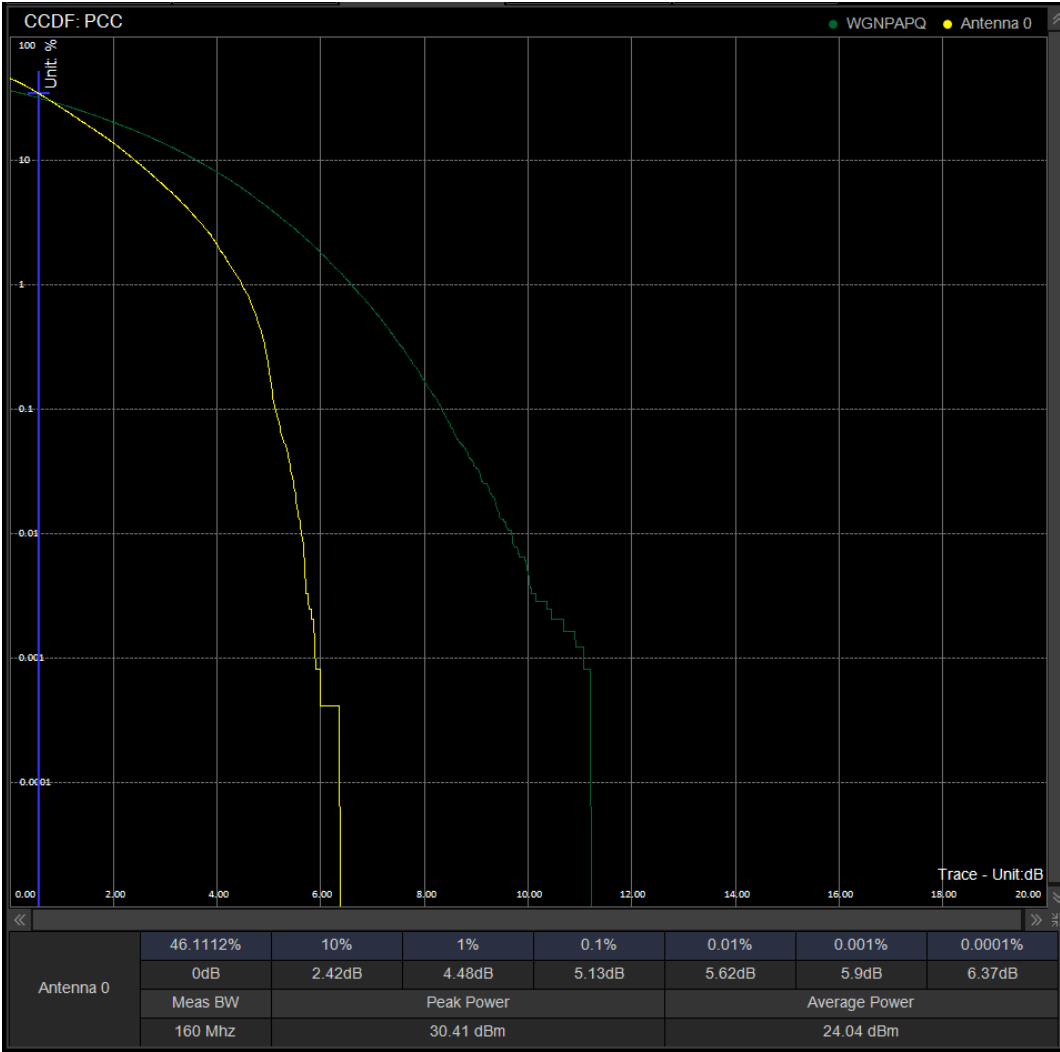
SAIPC2\NR n77(3450-3550)\100M 256QAM



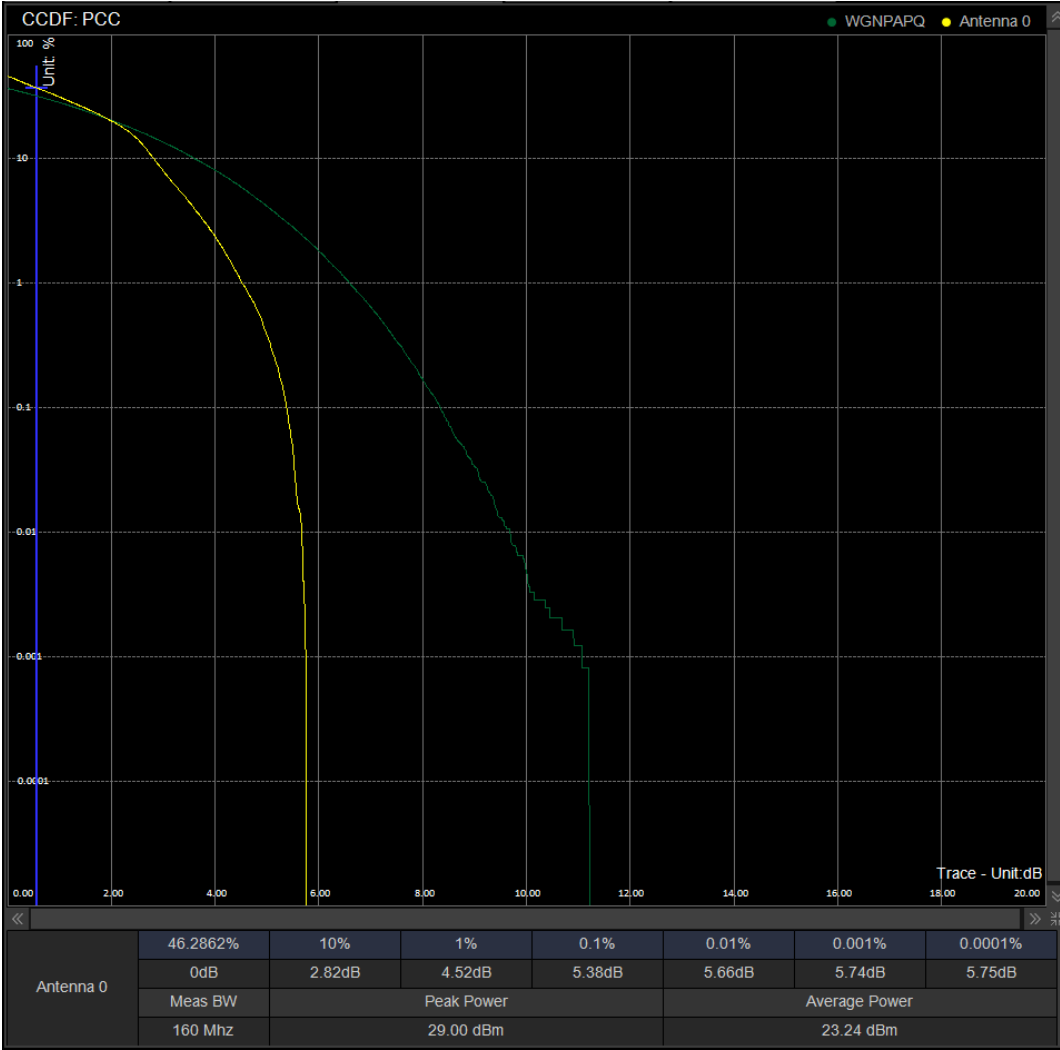
SA\PC2\NR n77(3450-3550)\100M 64QAM



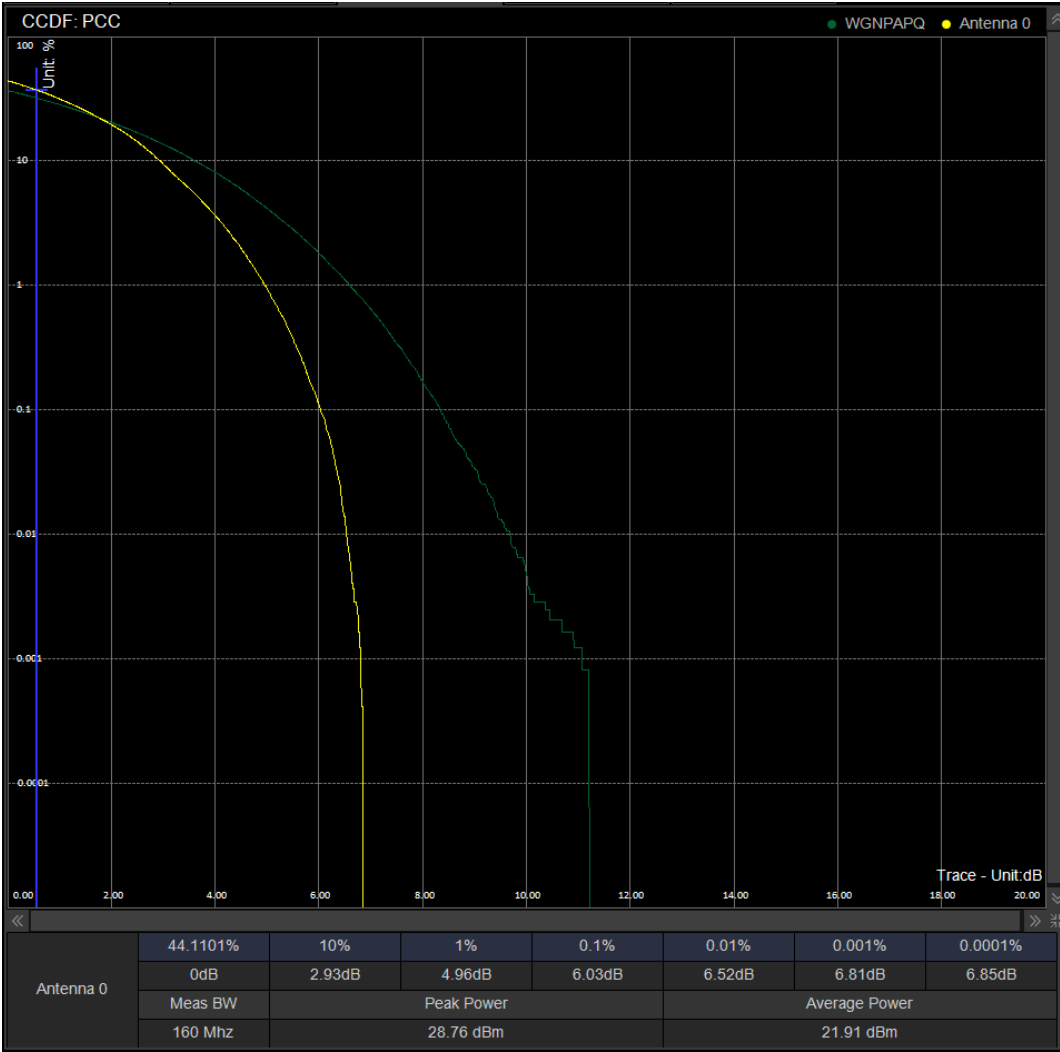
SA\PC2\NR n77(3450-3550)\100M BPSK



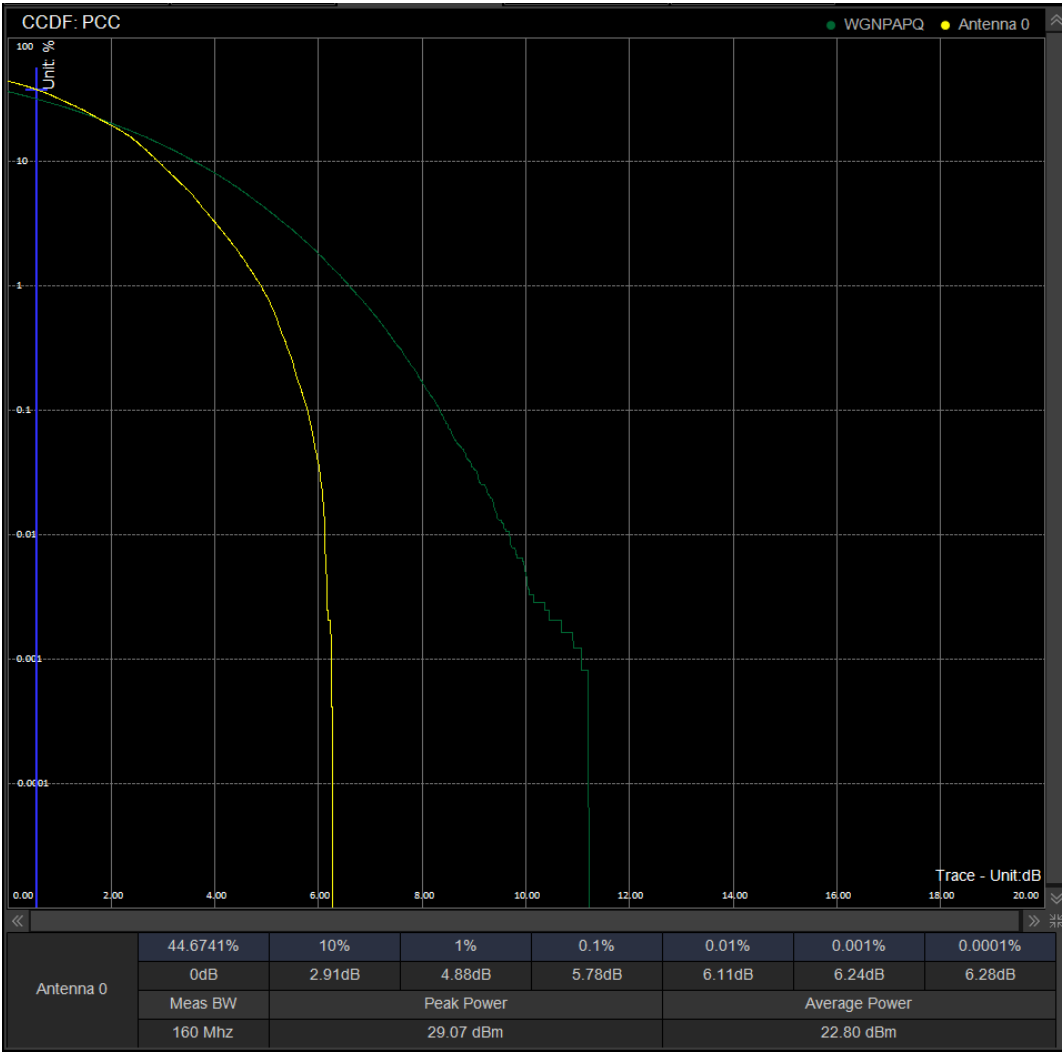
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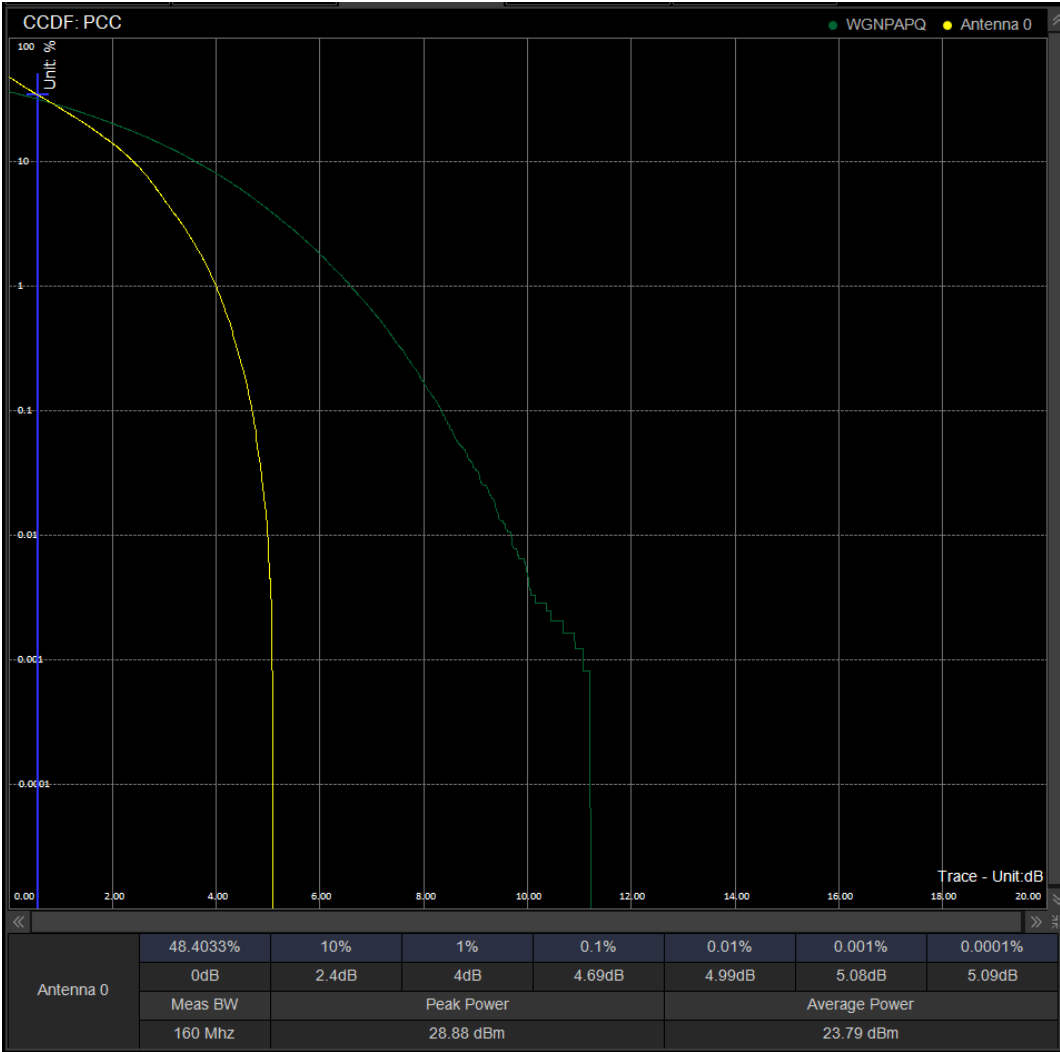
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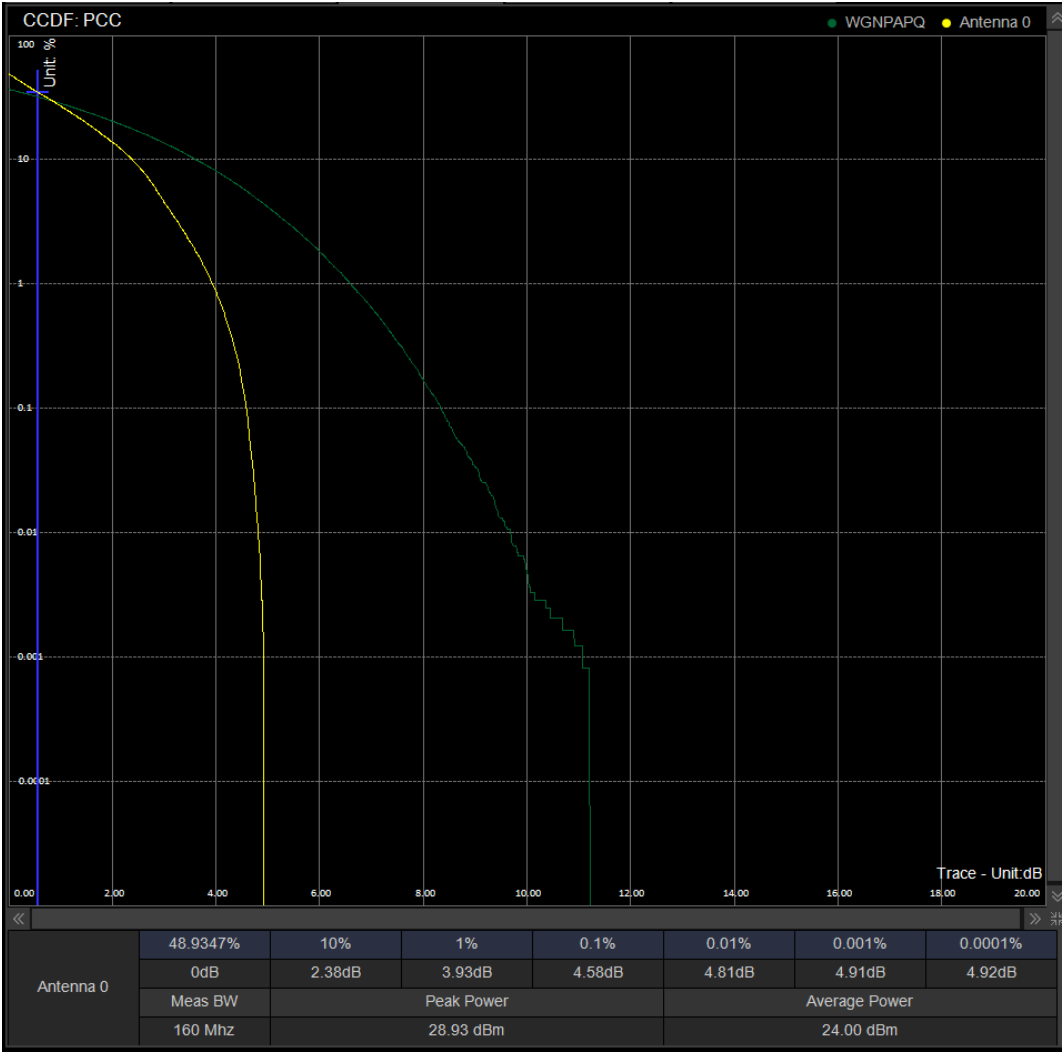
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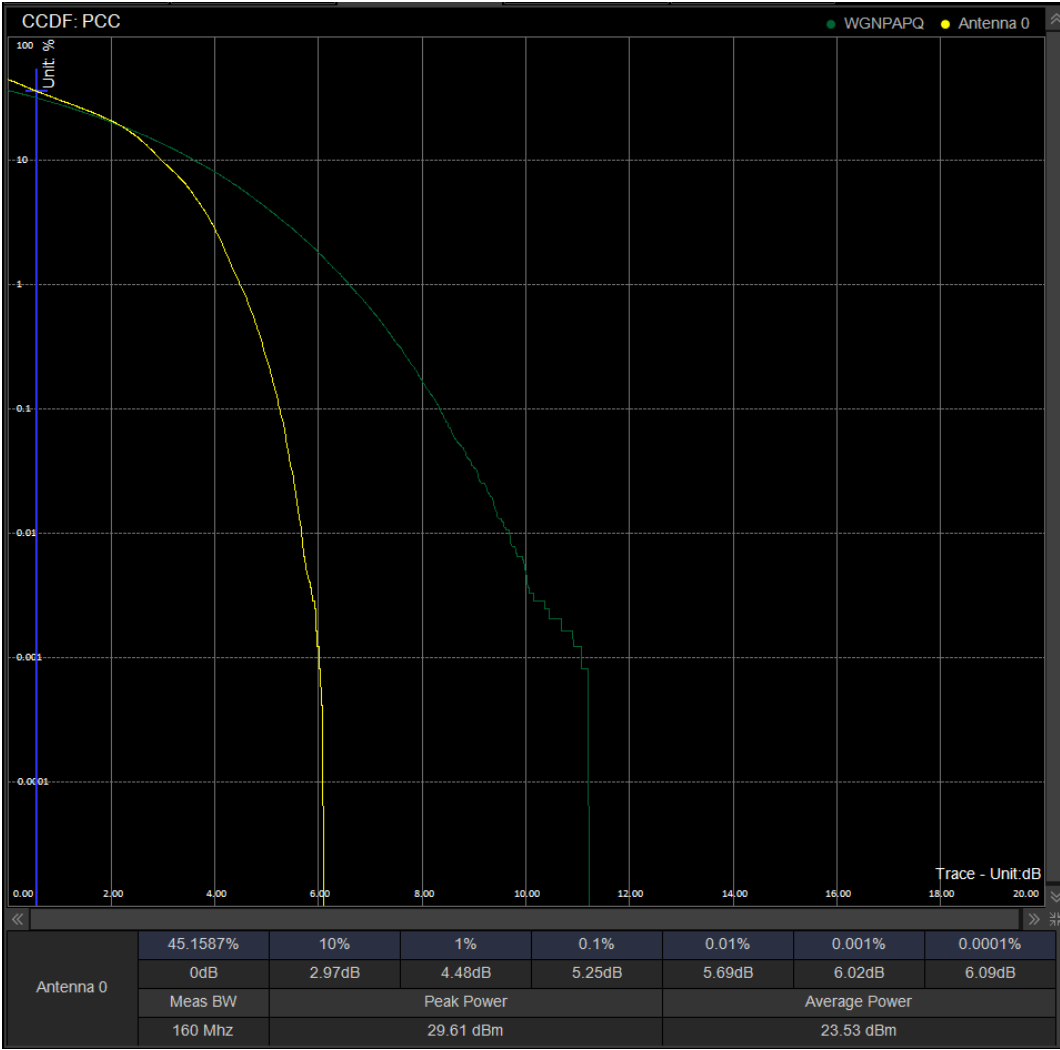
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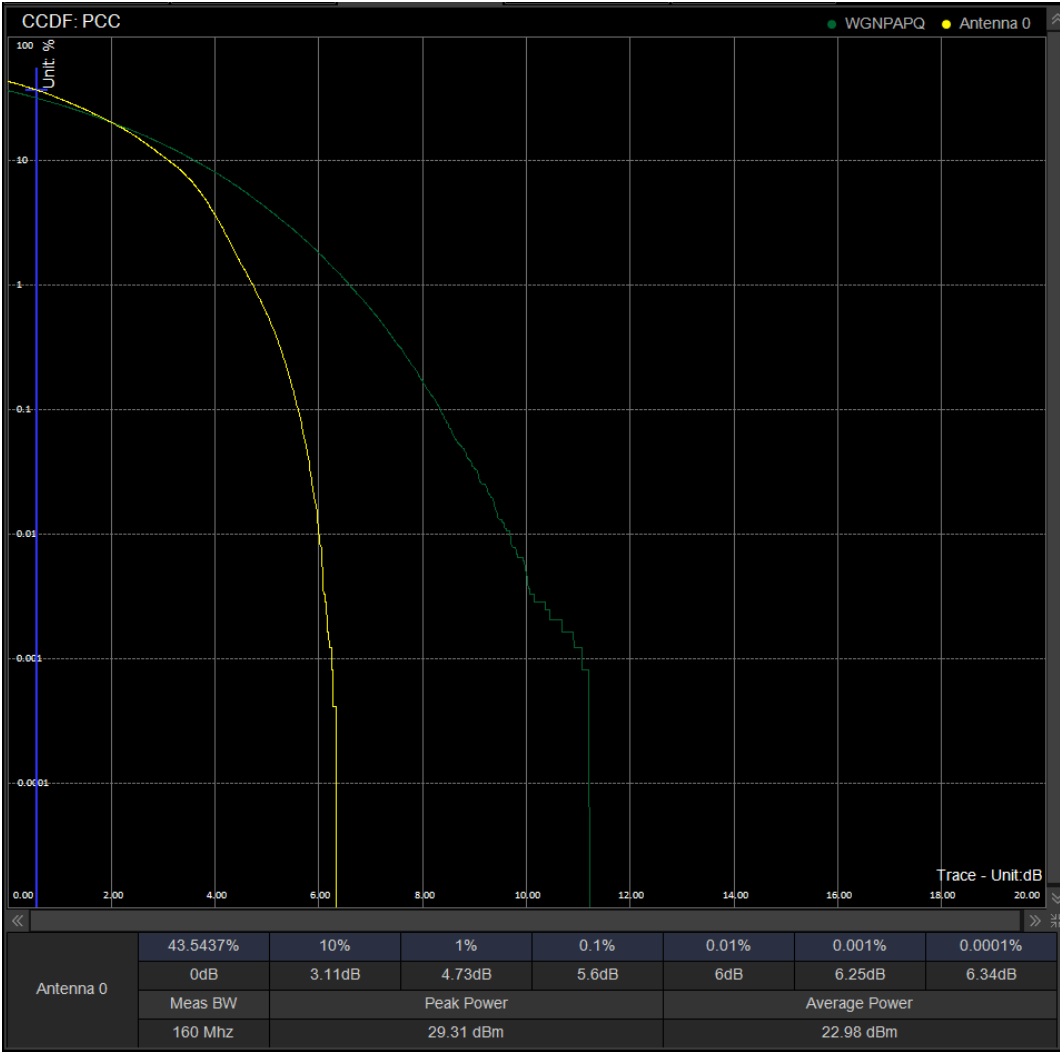
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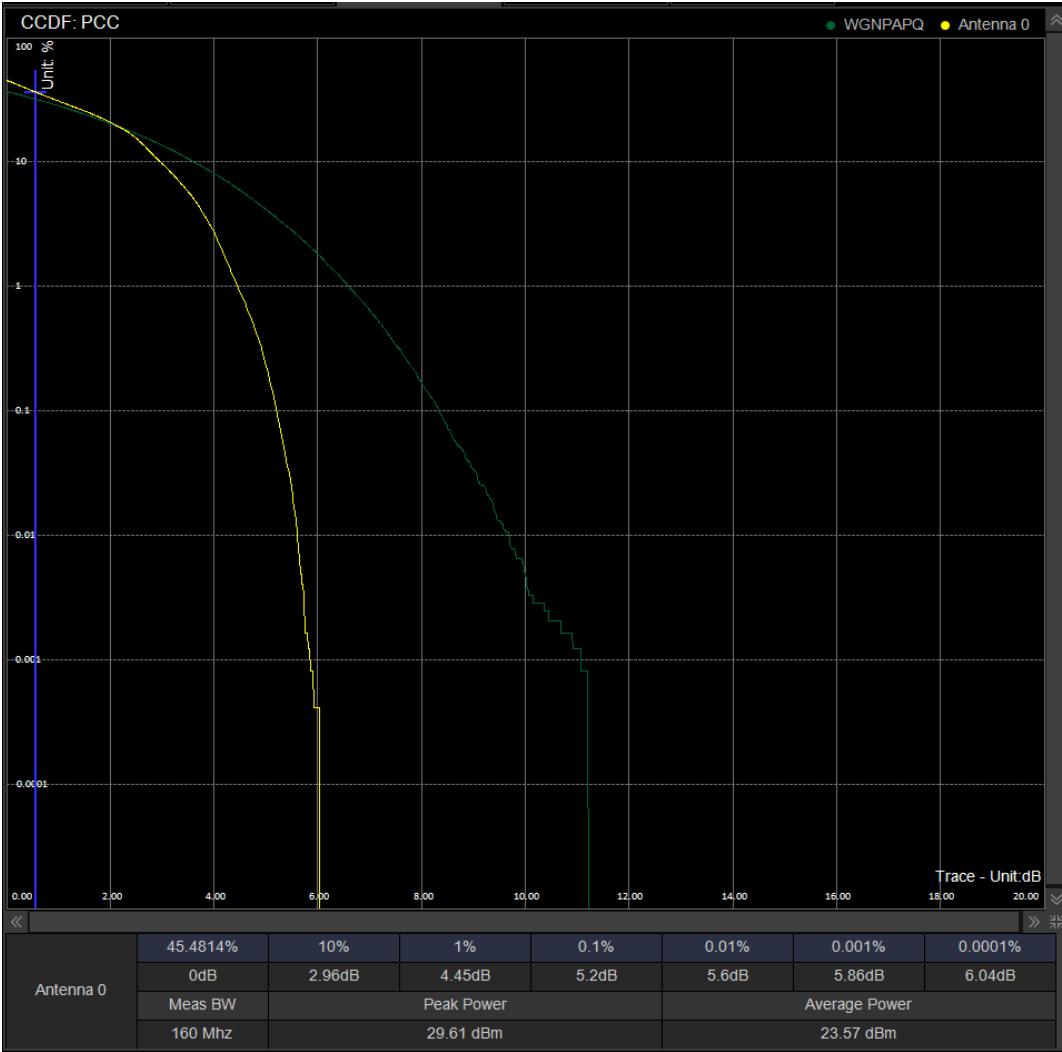
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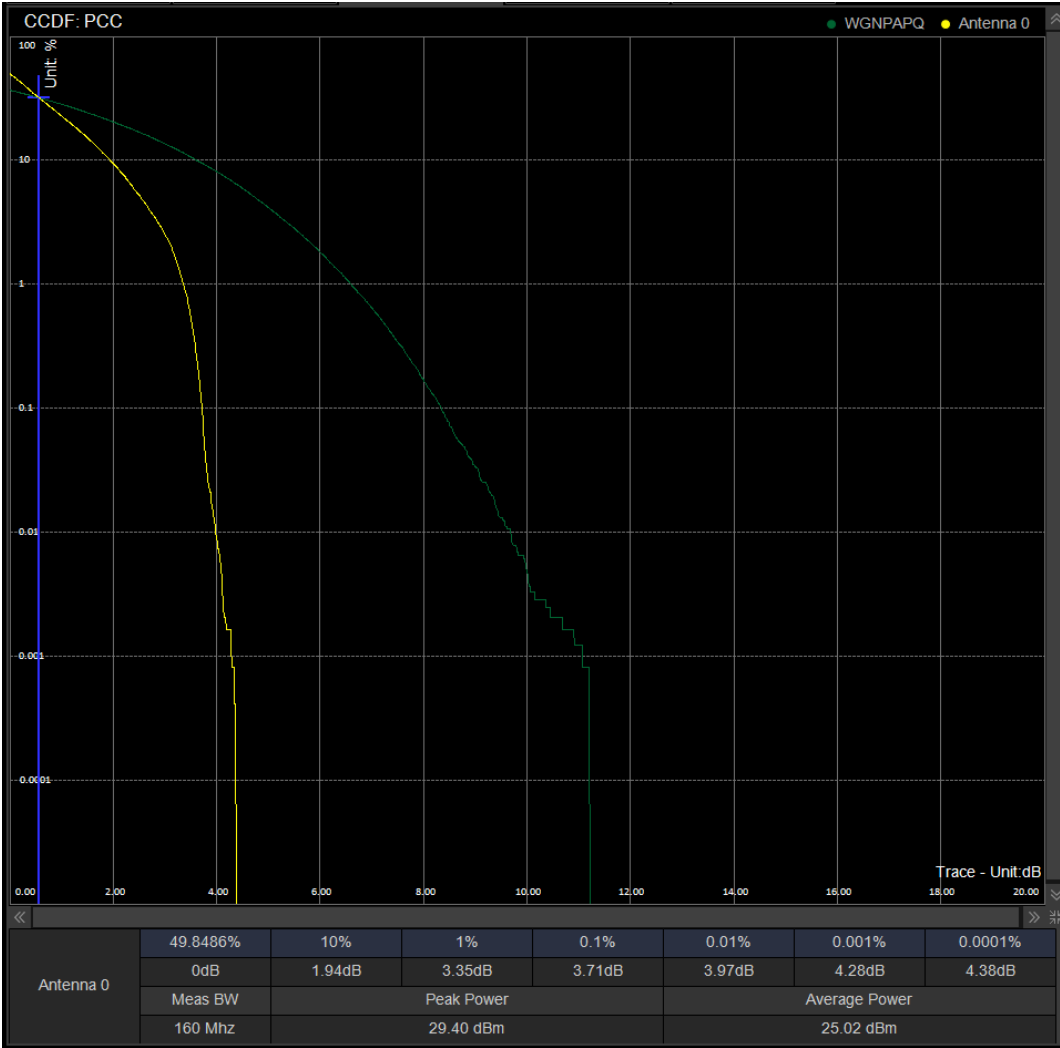
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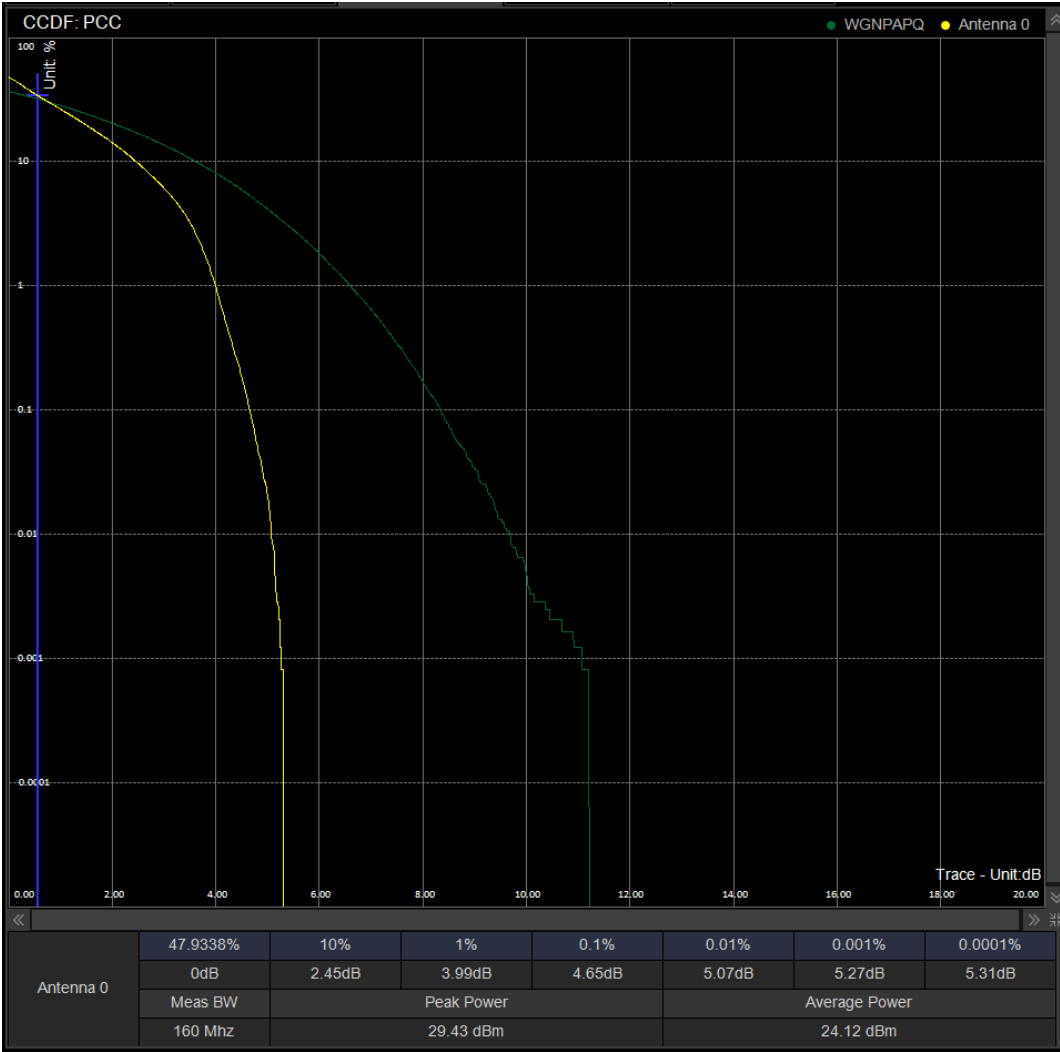
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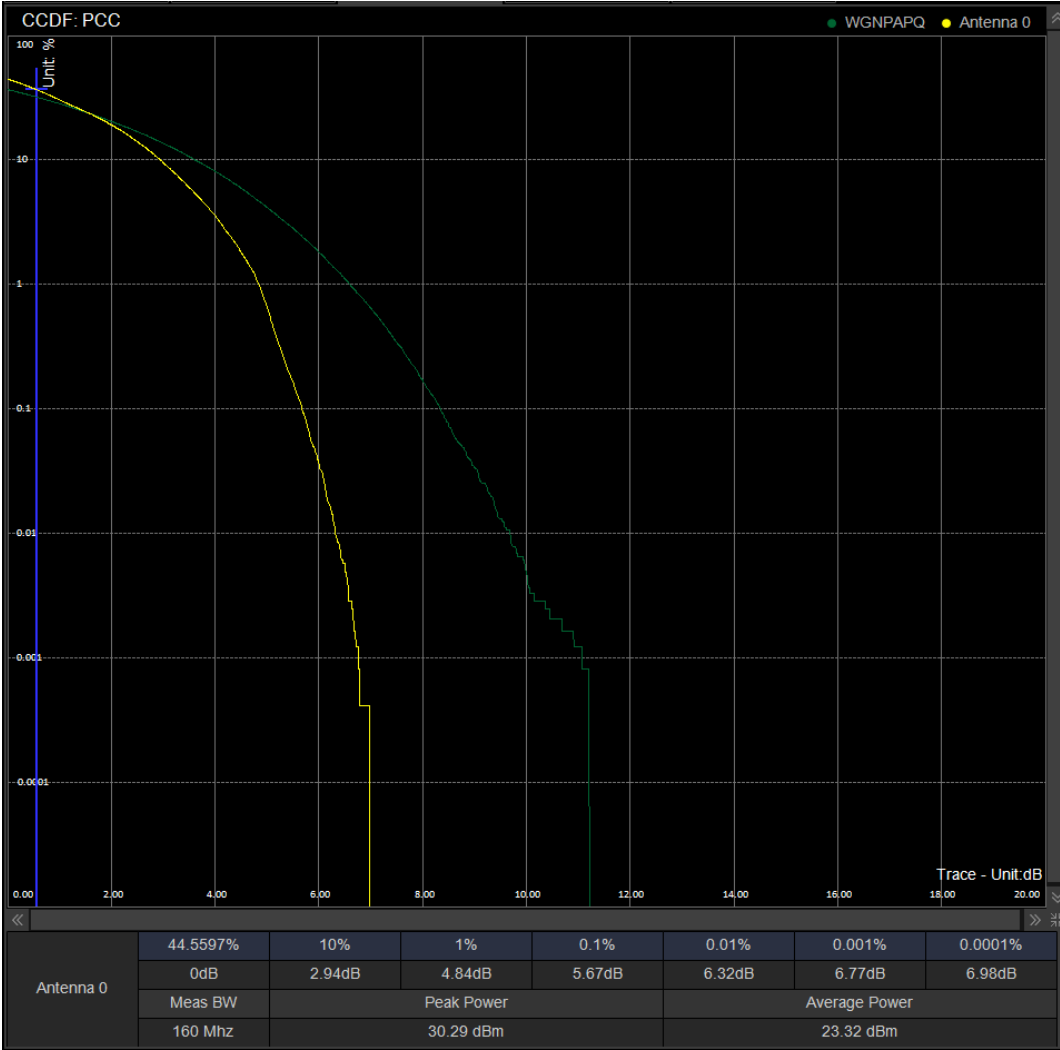
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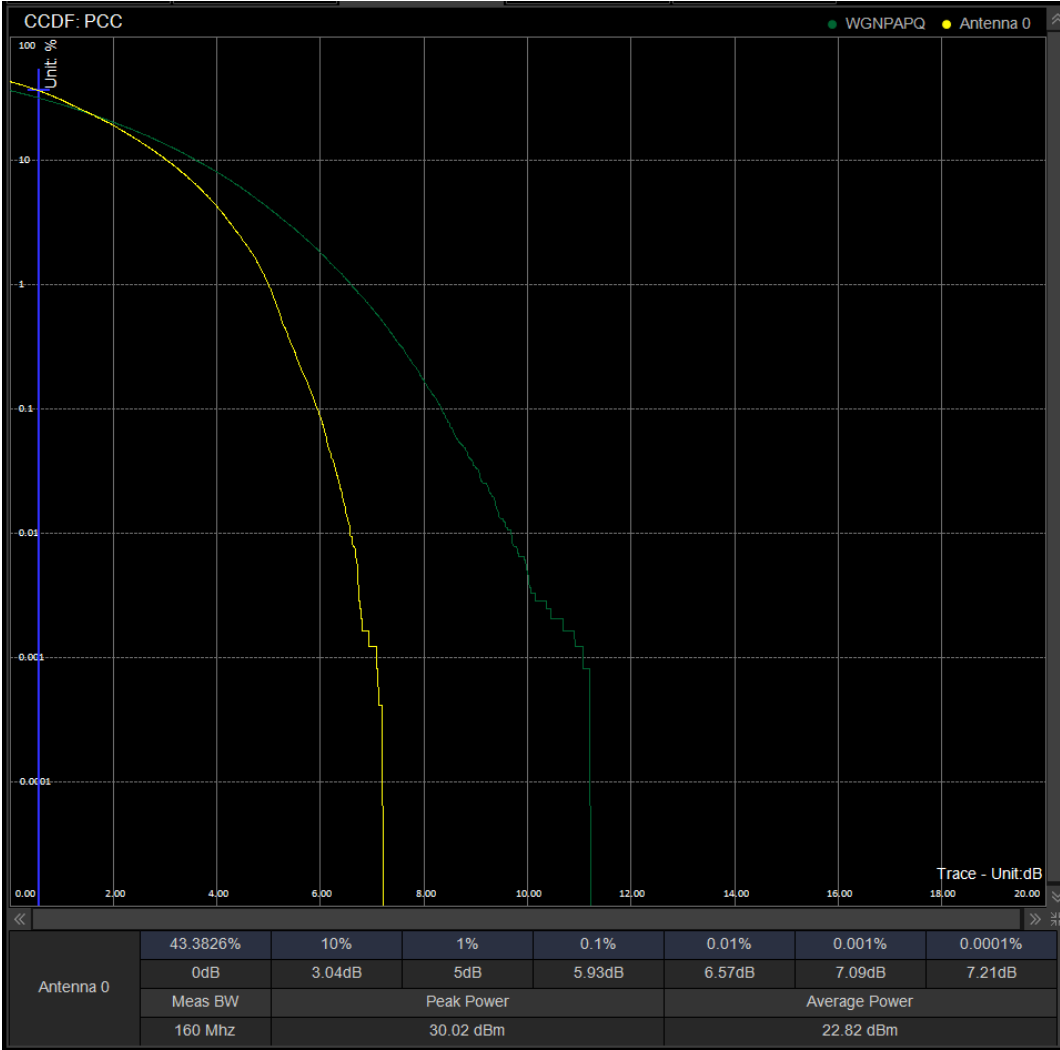
SA\PC2\NR n77(3450-3550)\50M BPSK



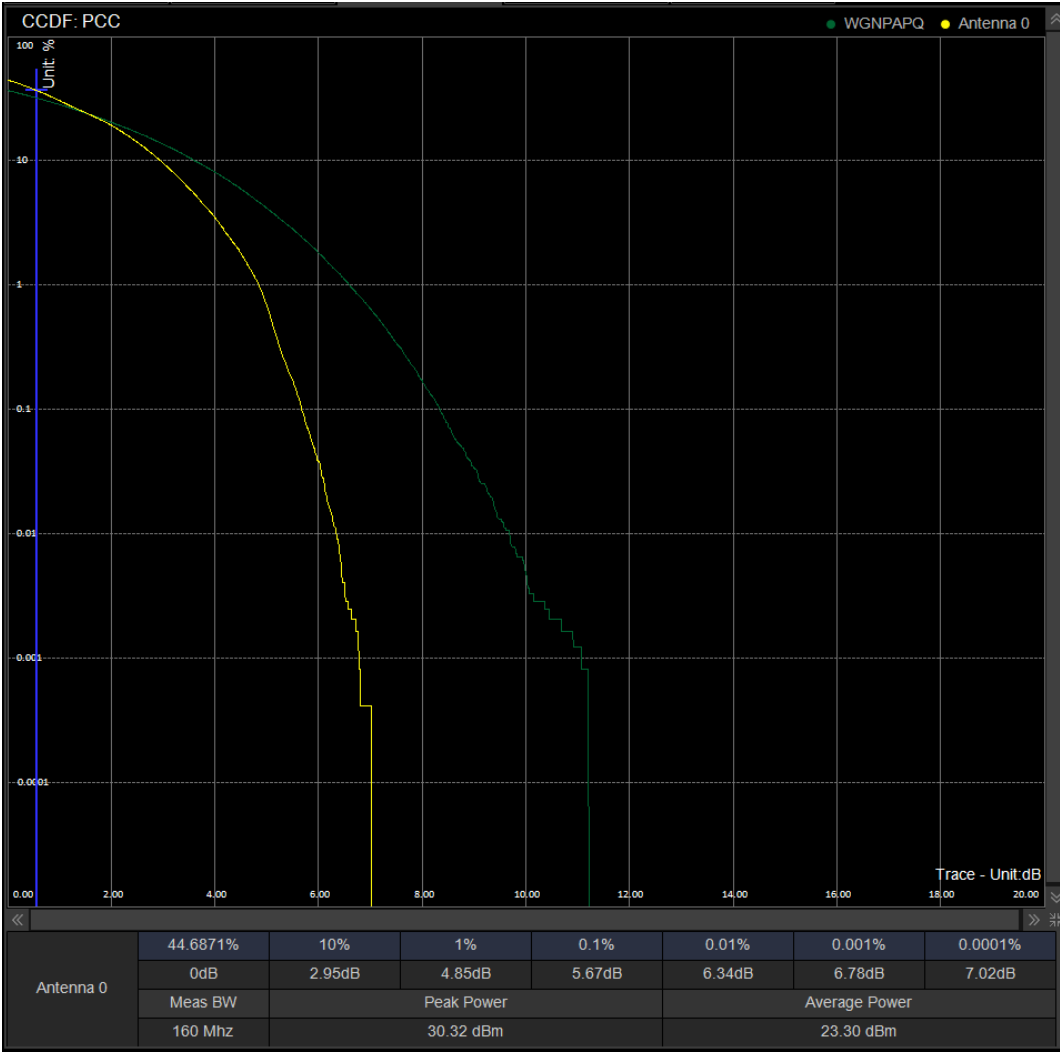
SA\PC2\NR n77(3450-3550)\50M QPSK



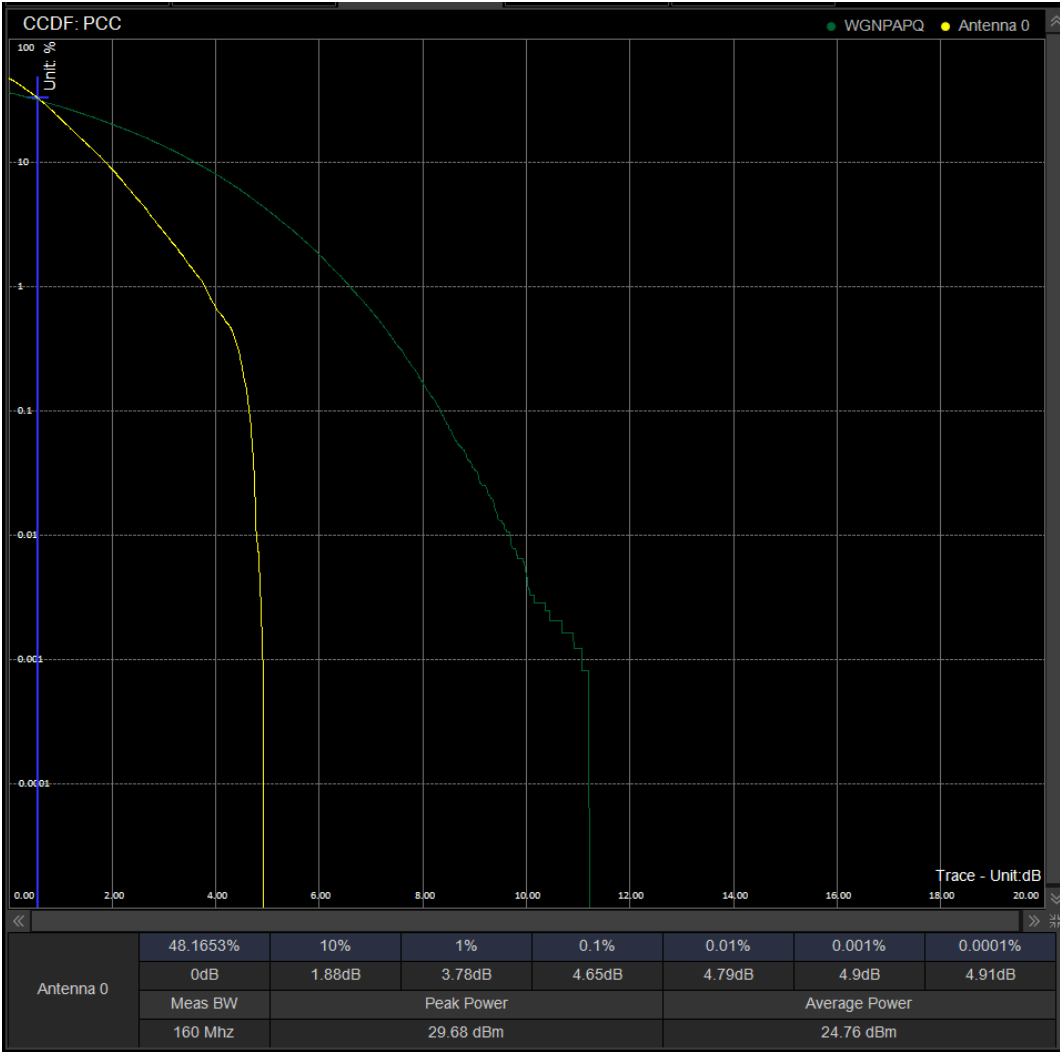
SA\PC2\NR n77(3700-3980)\100M 16QAM



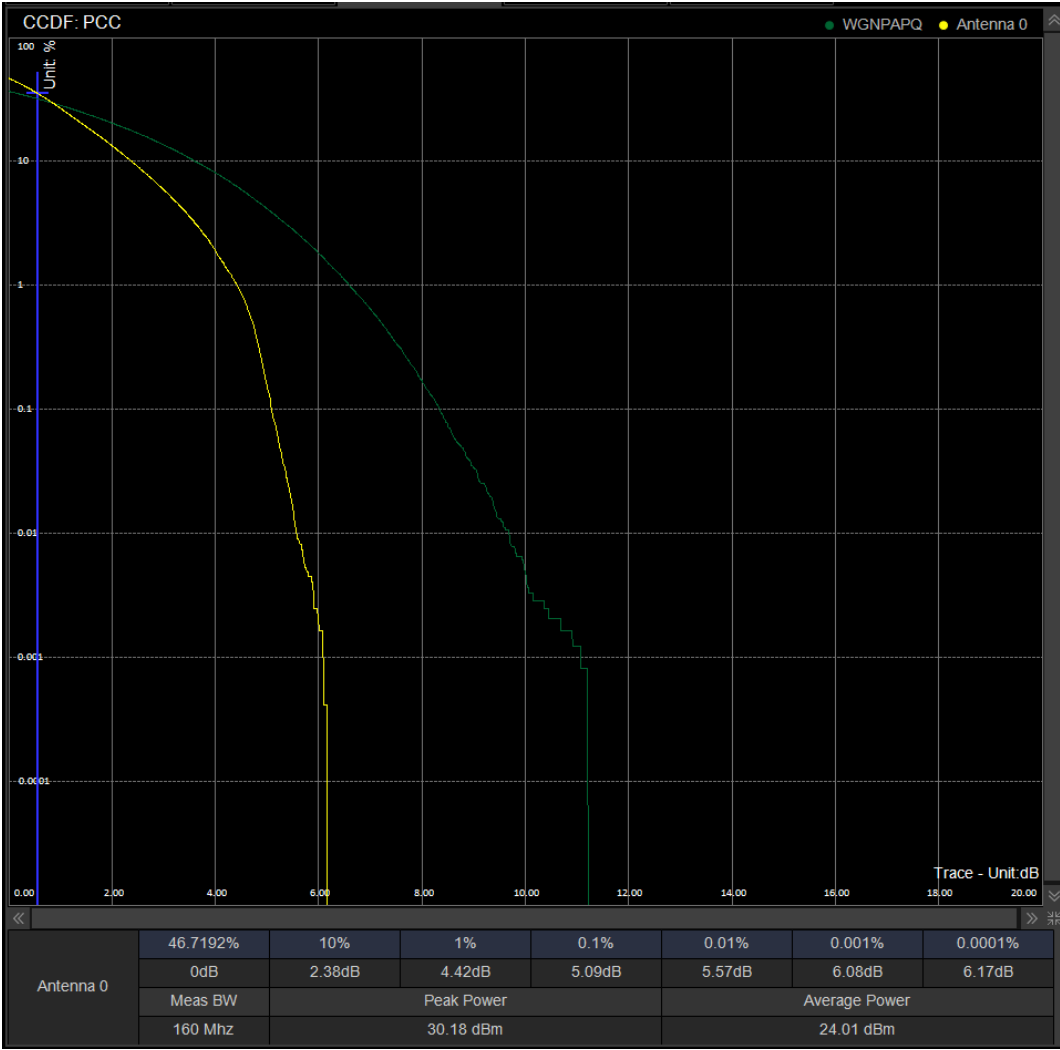
SAIPC2INR n77(3700-3980)\100M 256QAM



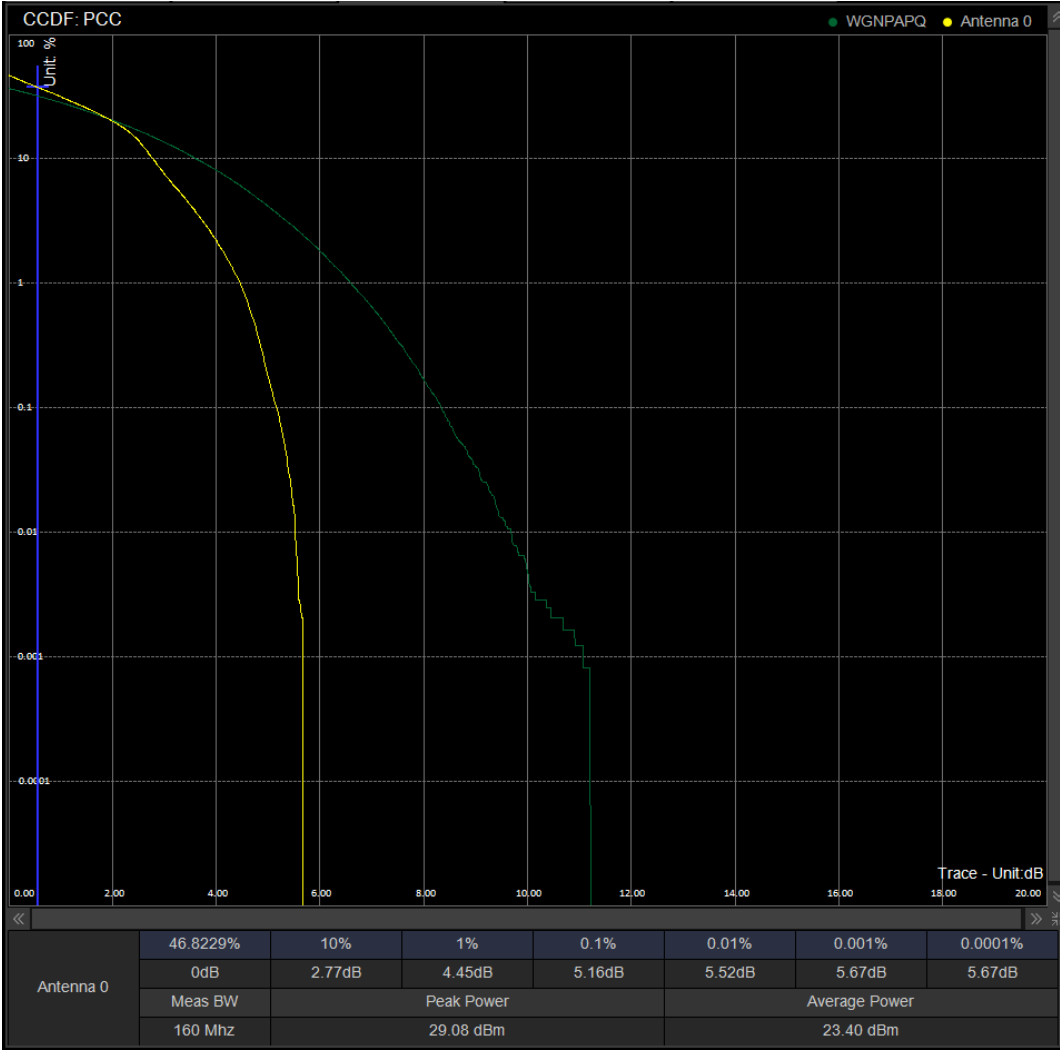
SA\PC2\NR n77(3700-3980)\100M 64QAM



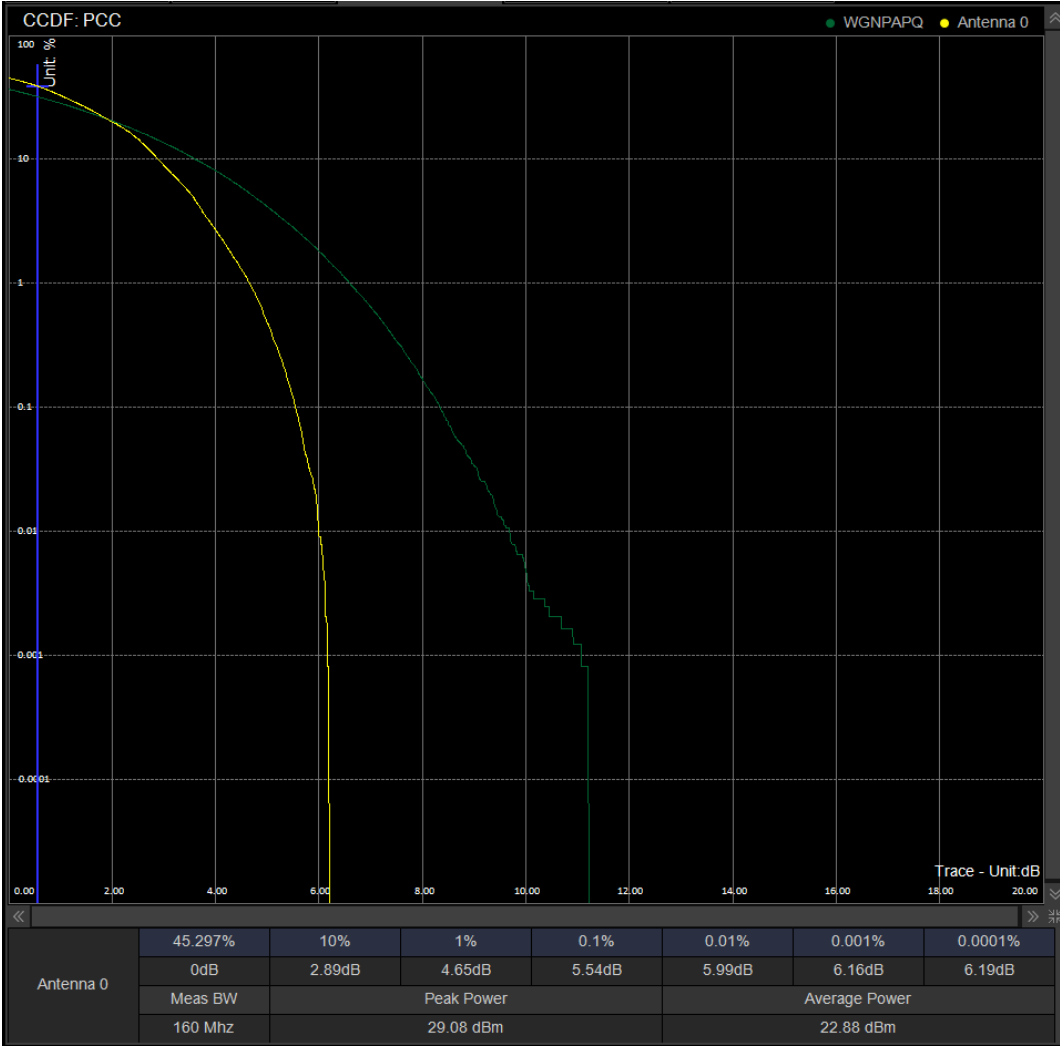
SA/PC2\NR n77(3700-3980)\100M BPSK



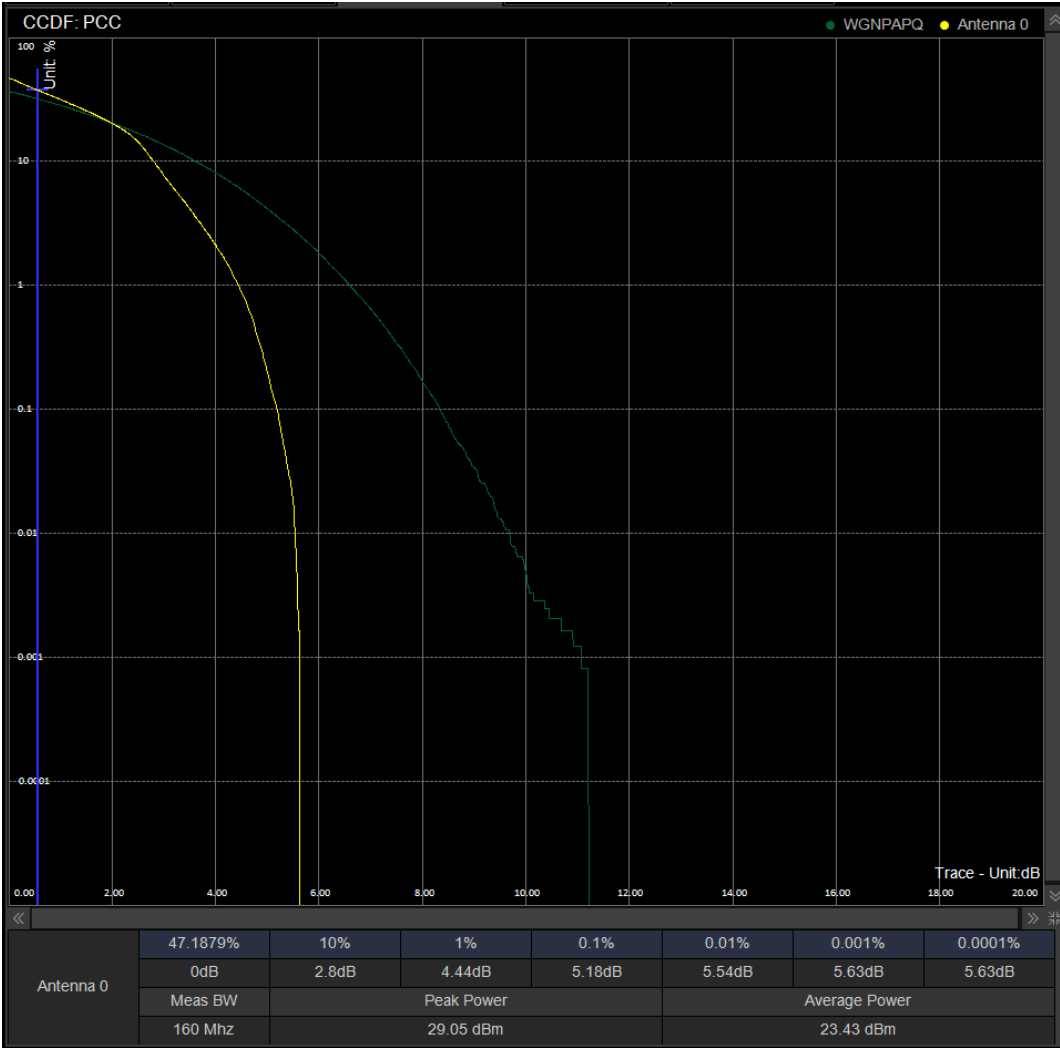
SAIPC2\NR n77(3700-3980)\100M QPSK



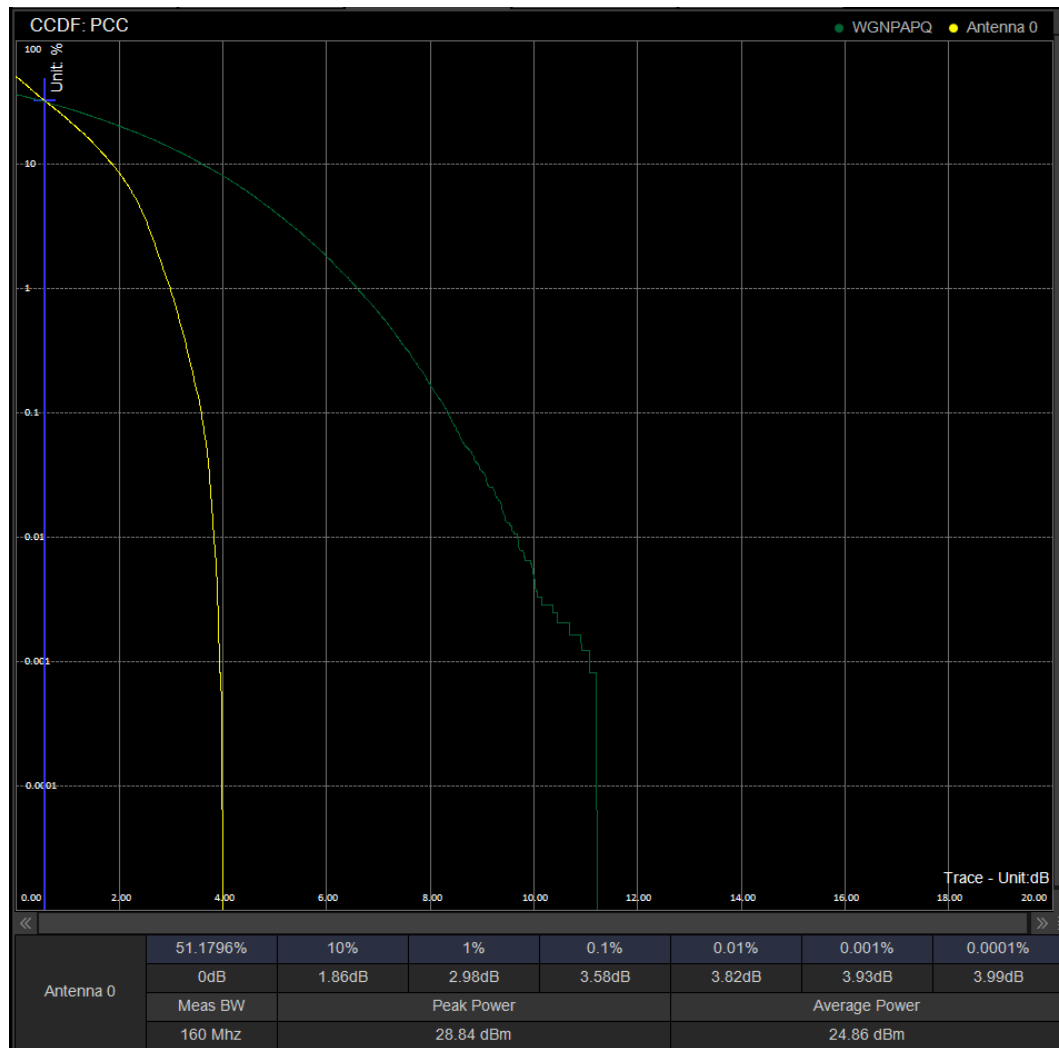
SAIPC2INR n77(3700-3980)\10M 16QAM



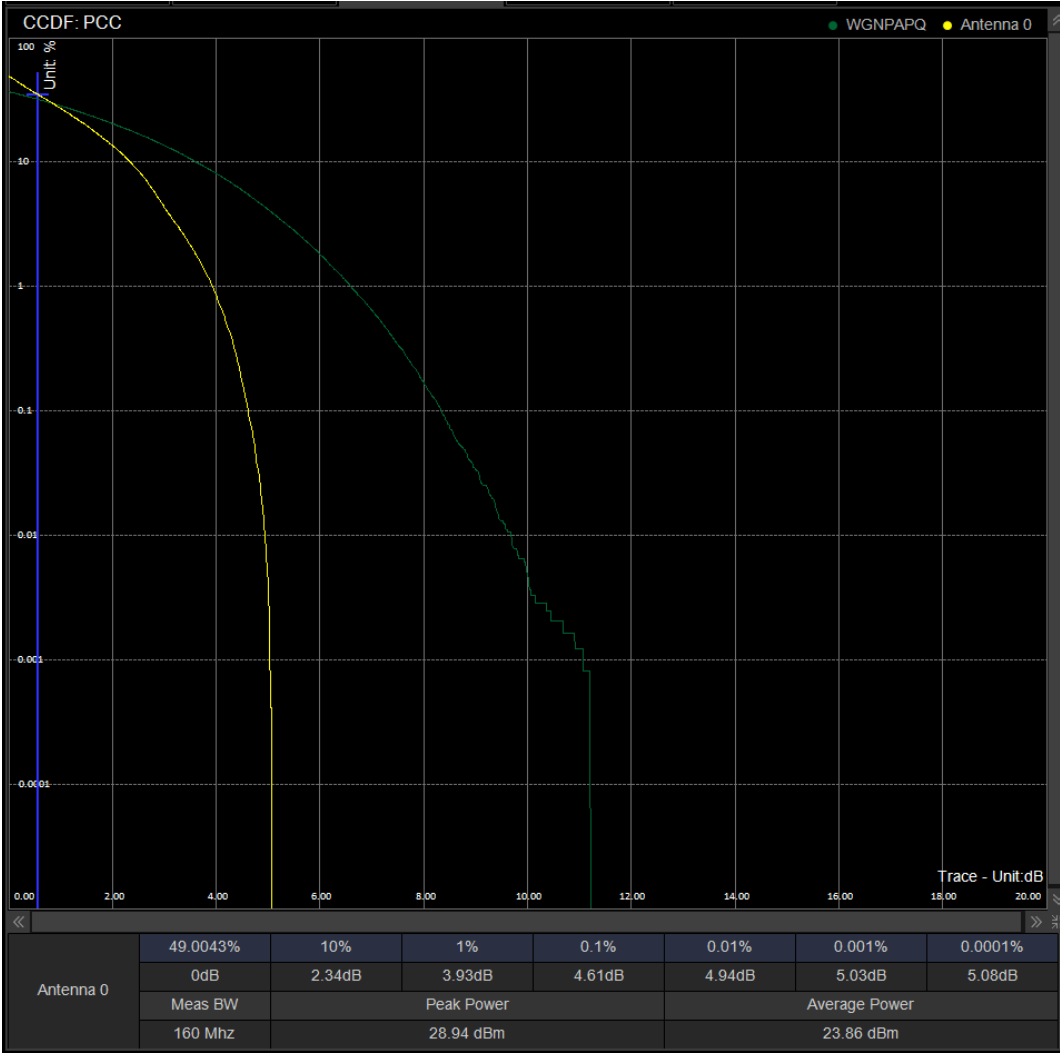
SA\PC2\NR n77(3700-3980)\10M 256QAM



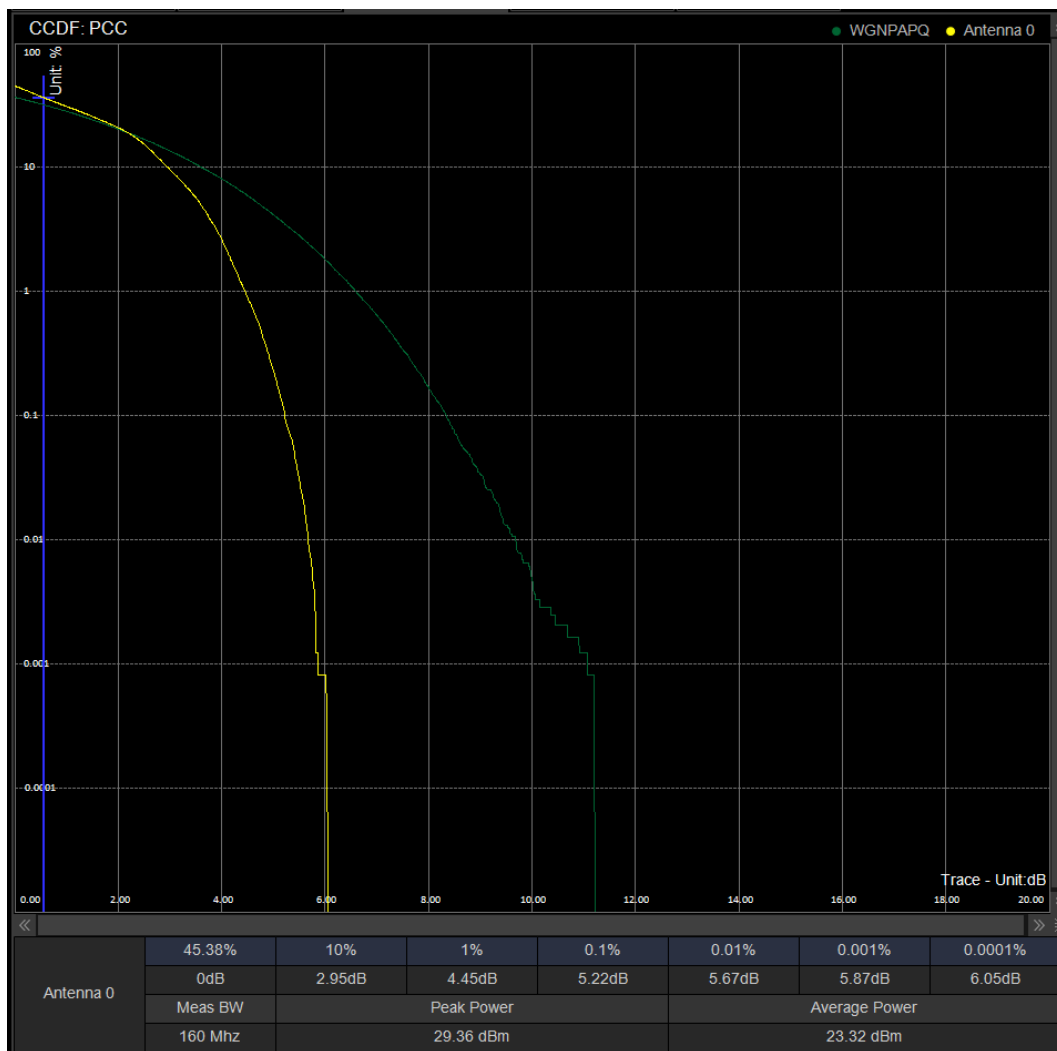
SAIPC2INR n77(3700-3980)\10M 64QAM



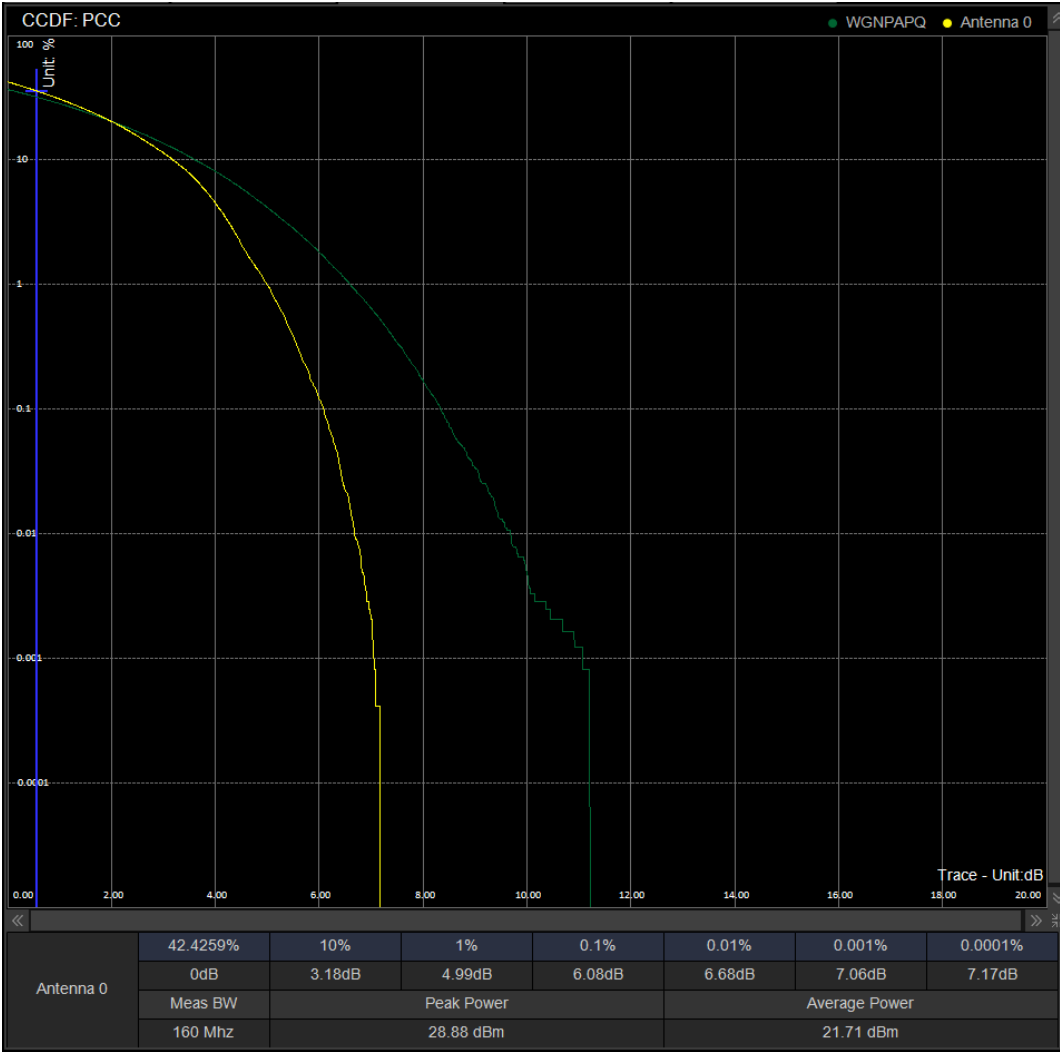
SA\PC2\NR n77(3700-3980)\10M BPSK



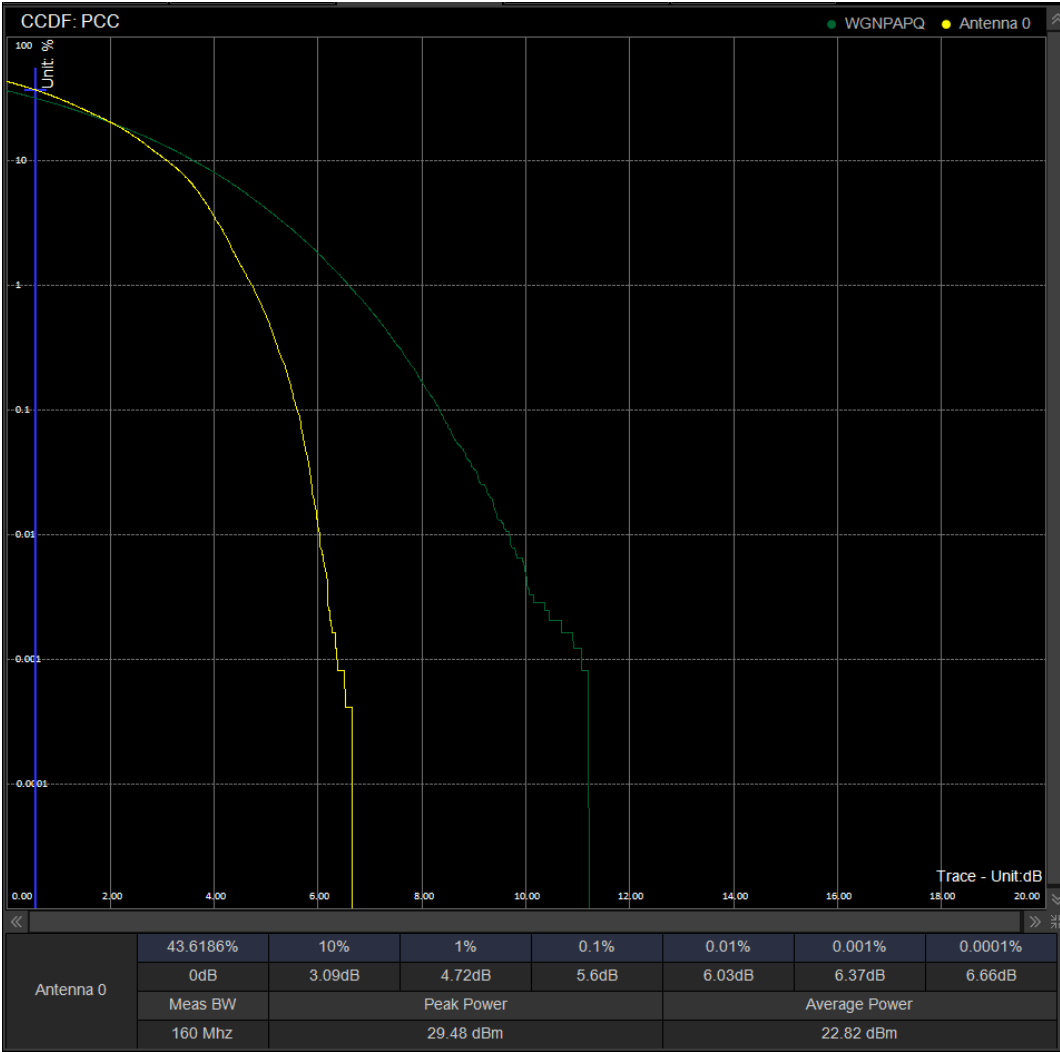
SA\PC2\NR n77(3700-3980)\10M QPSK



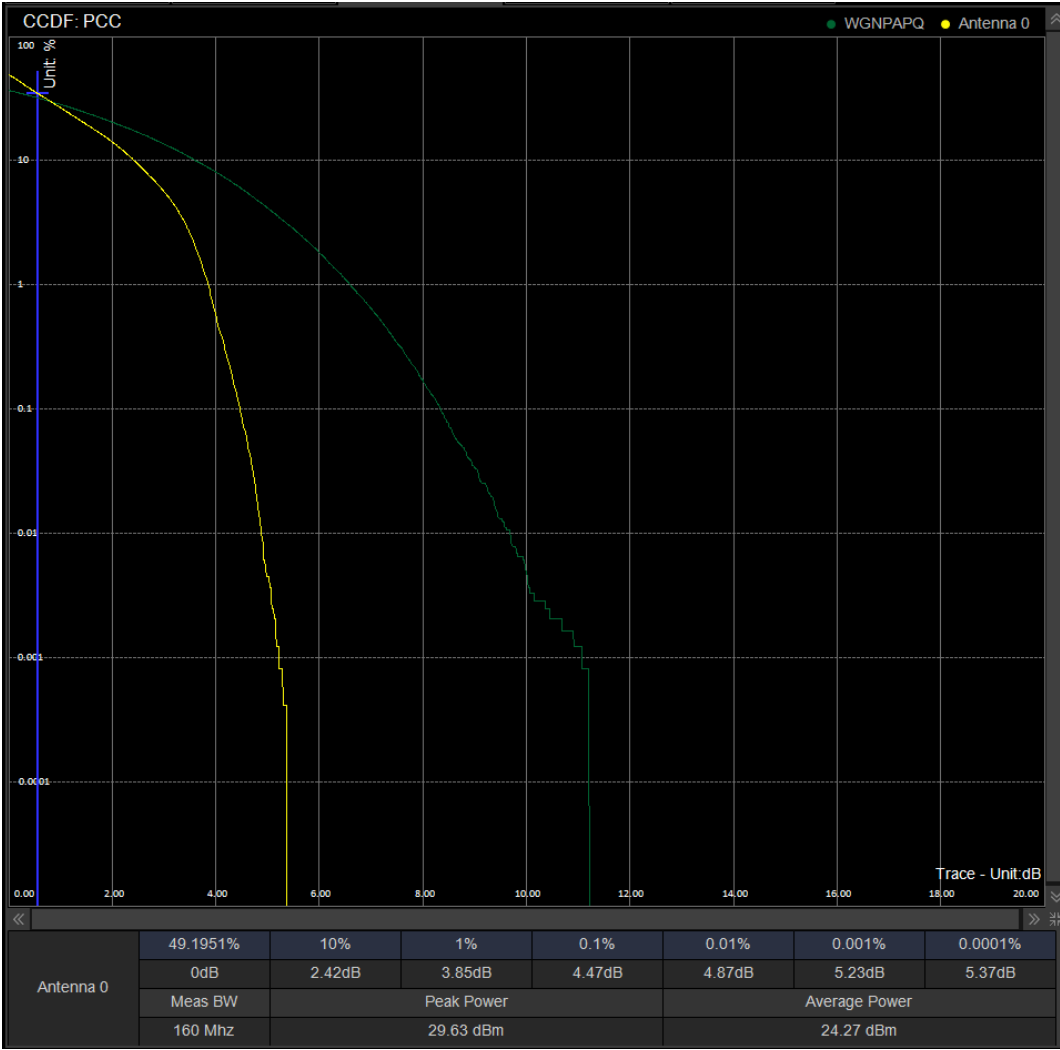
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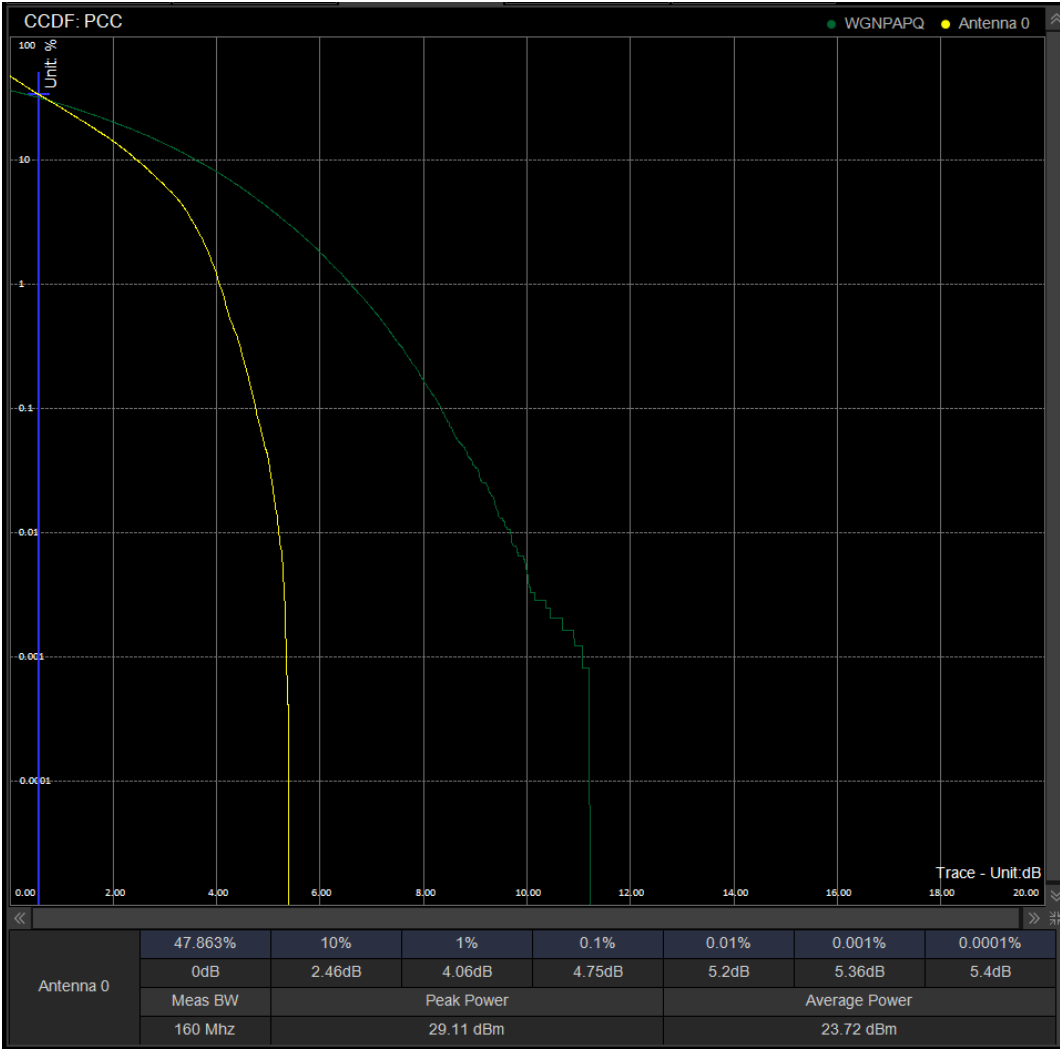
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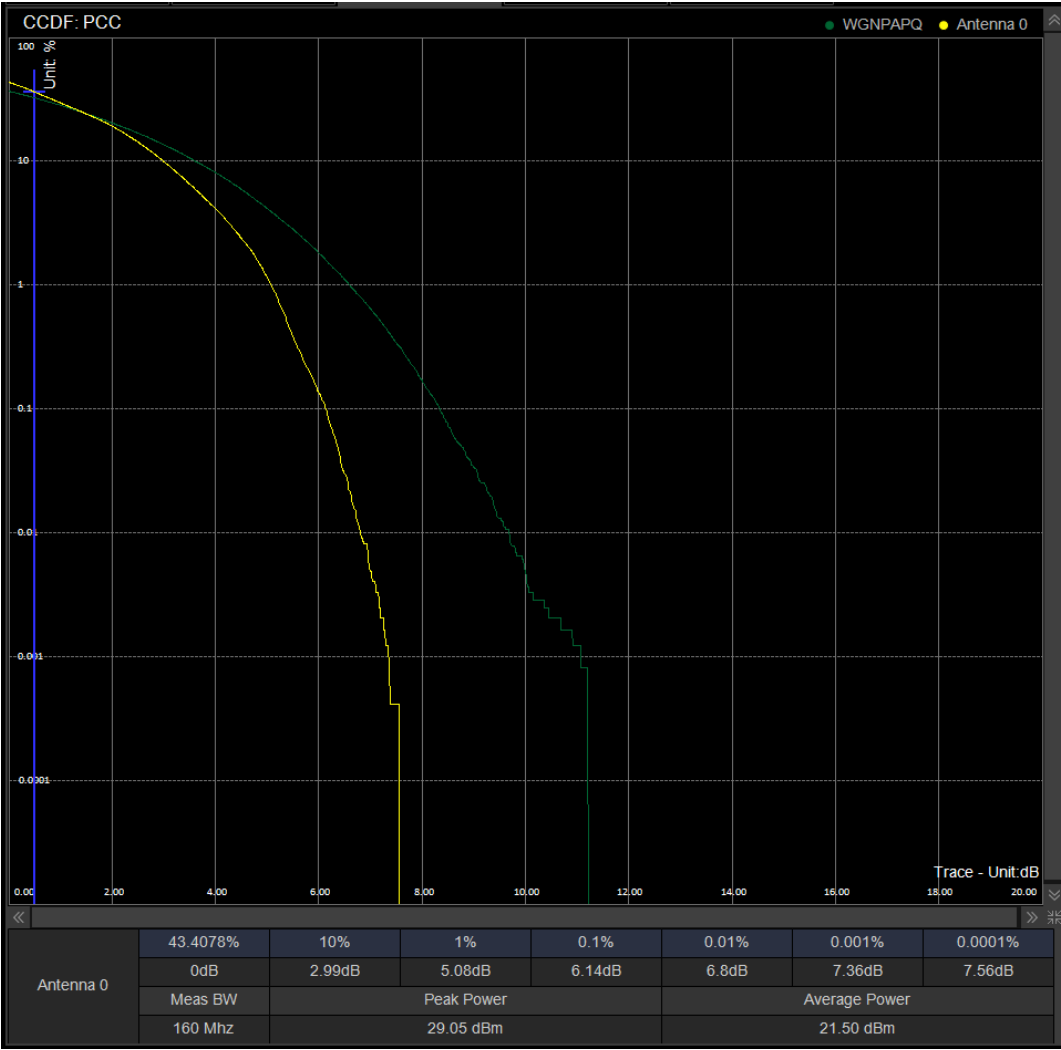
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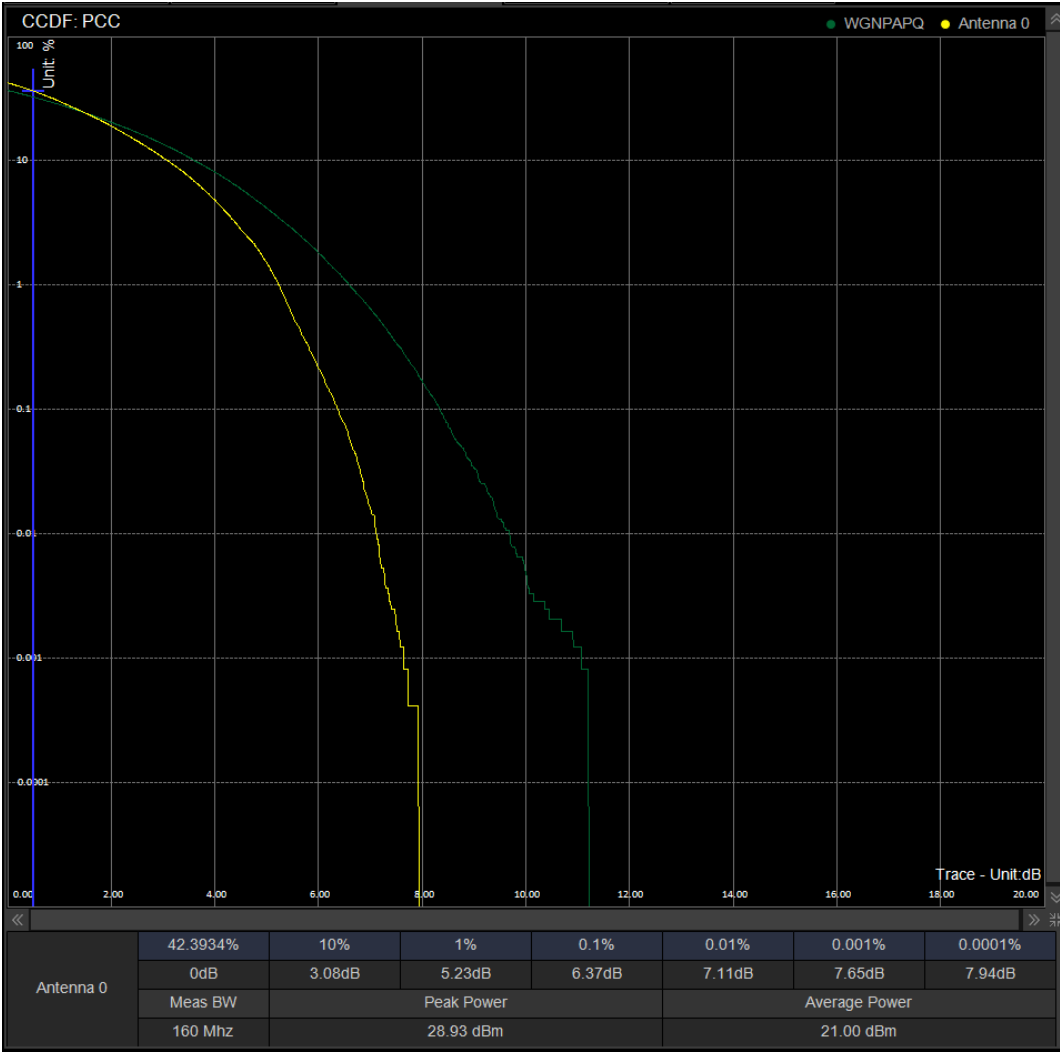
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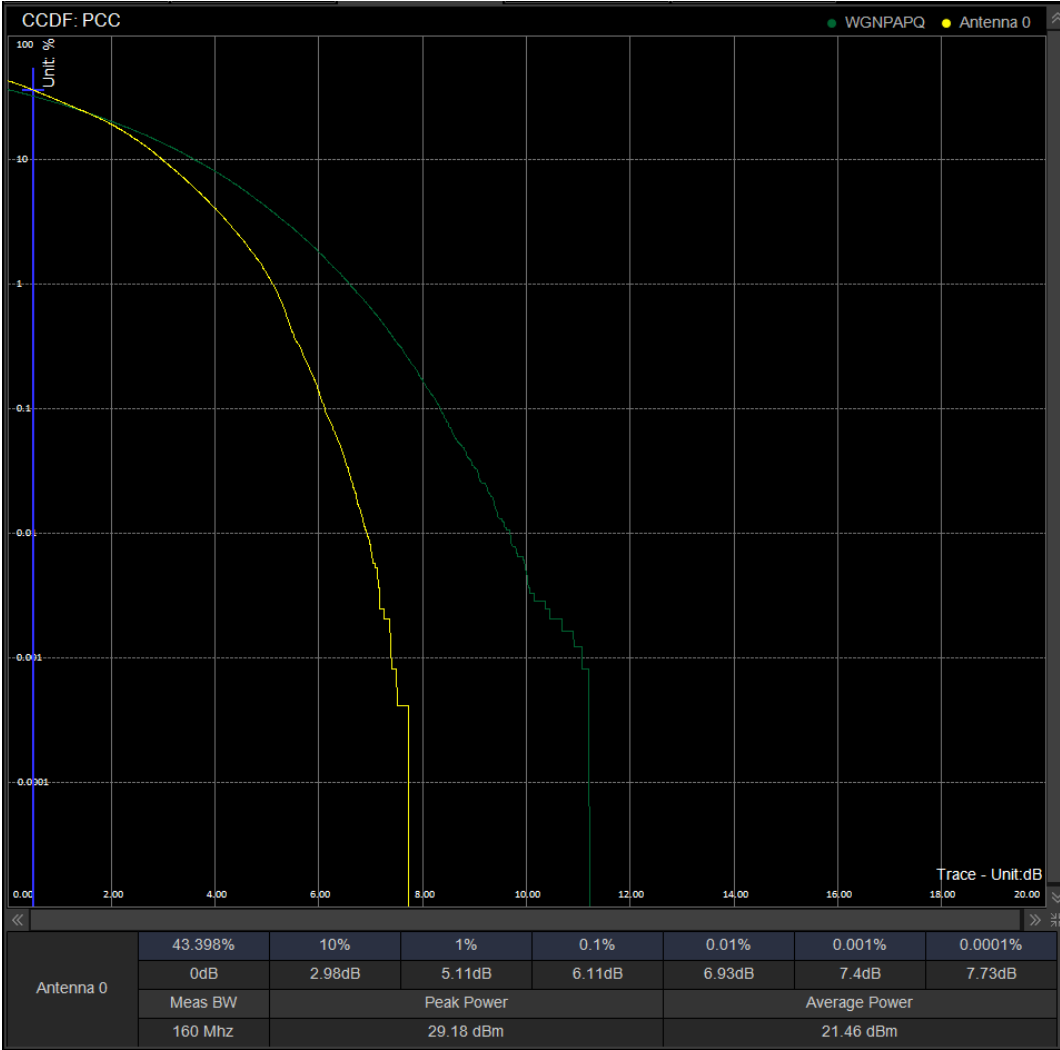
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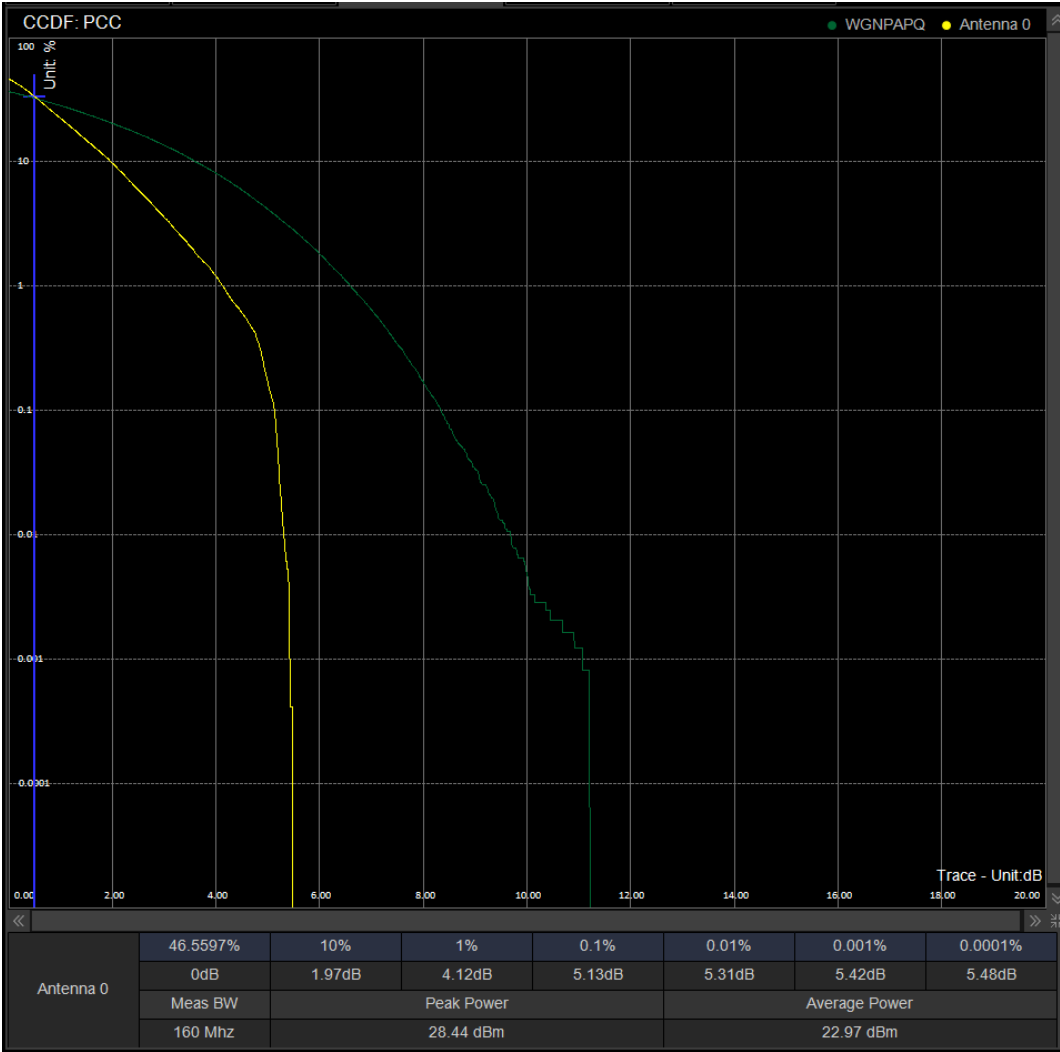
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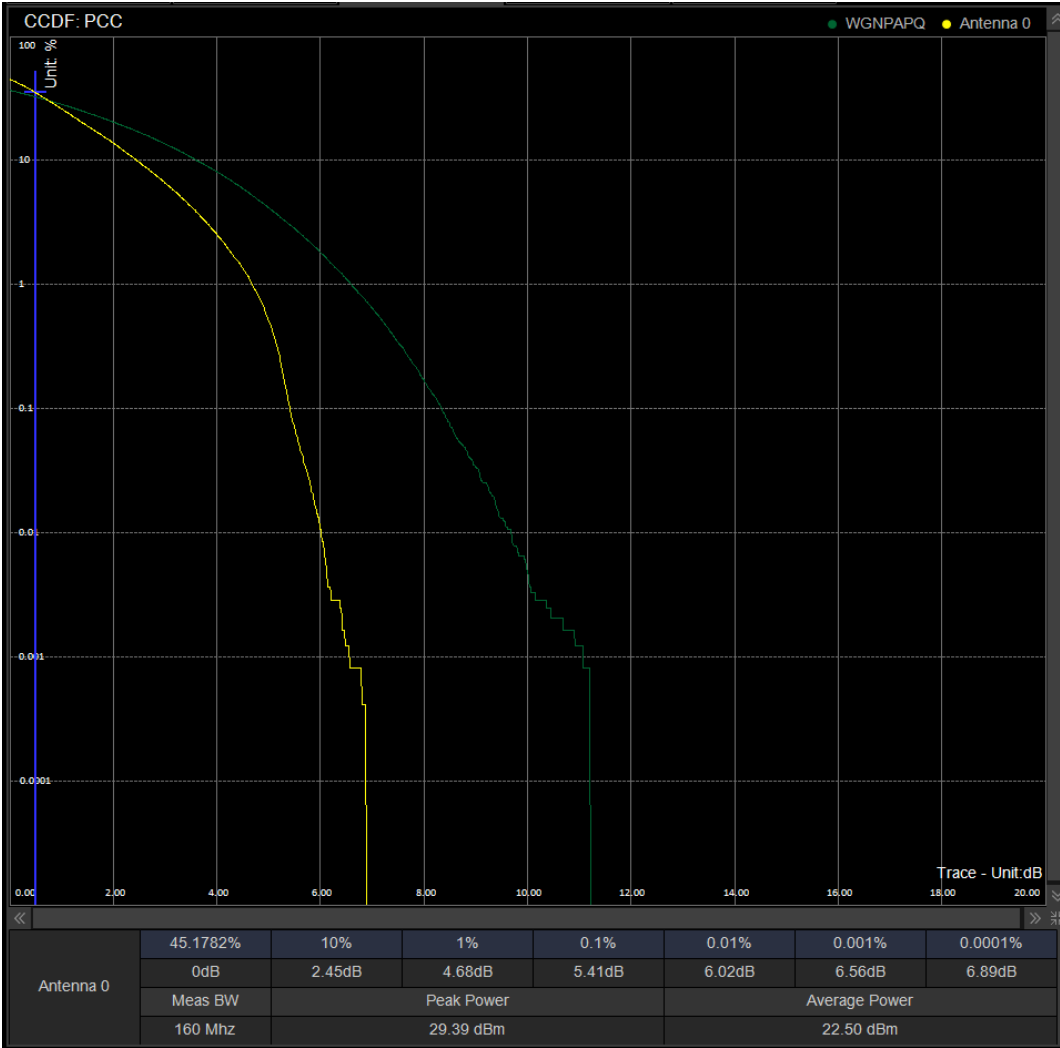
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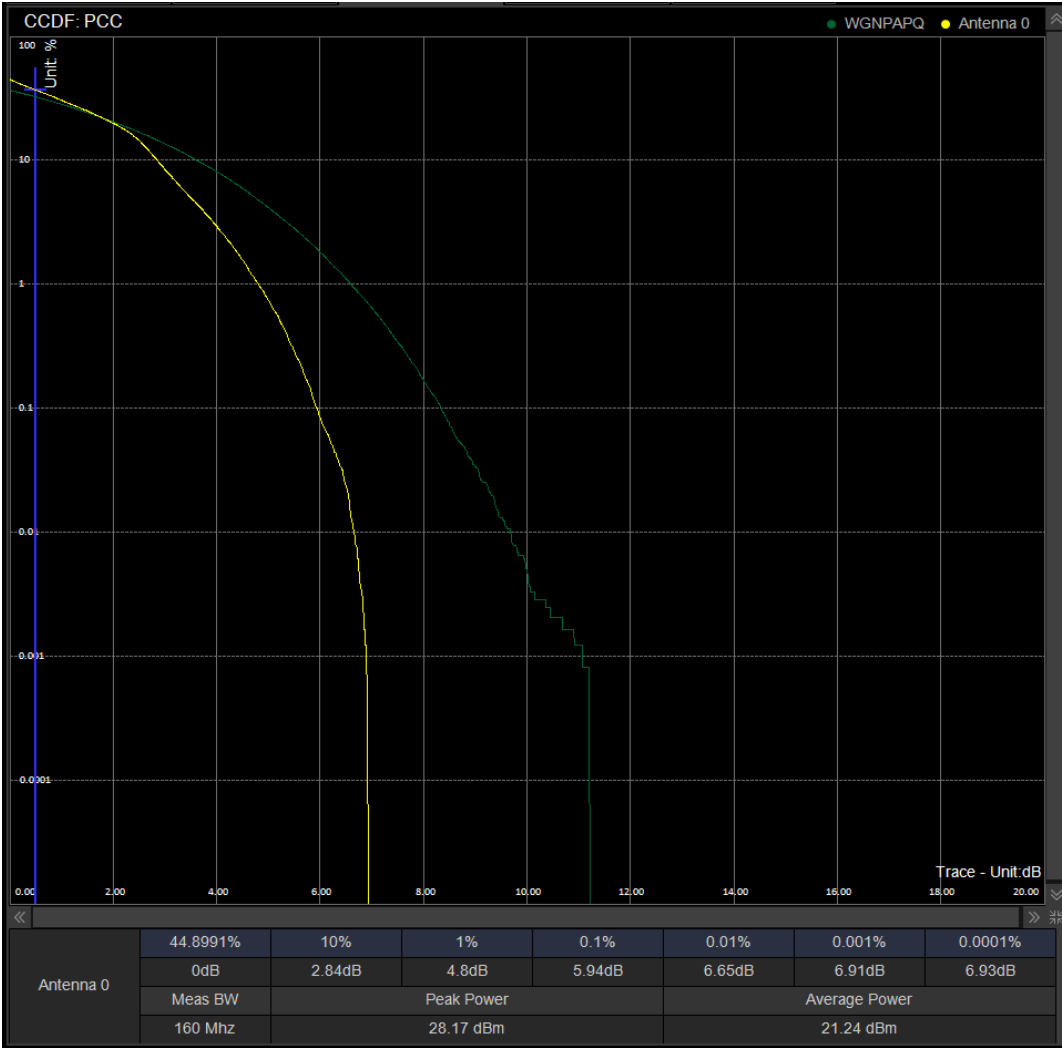
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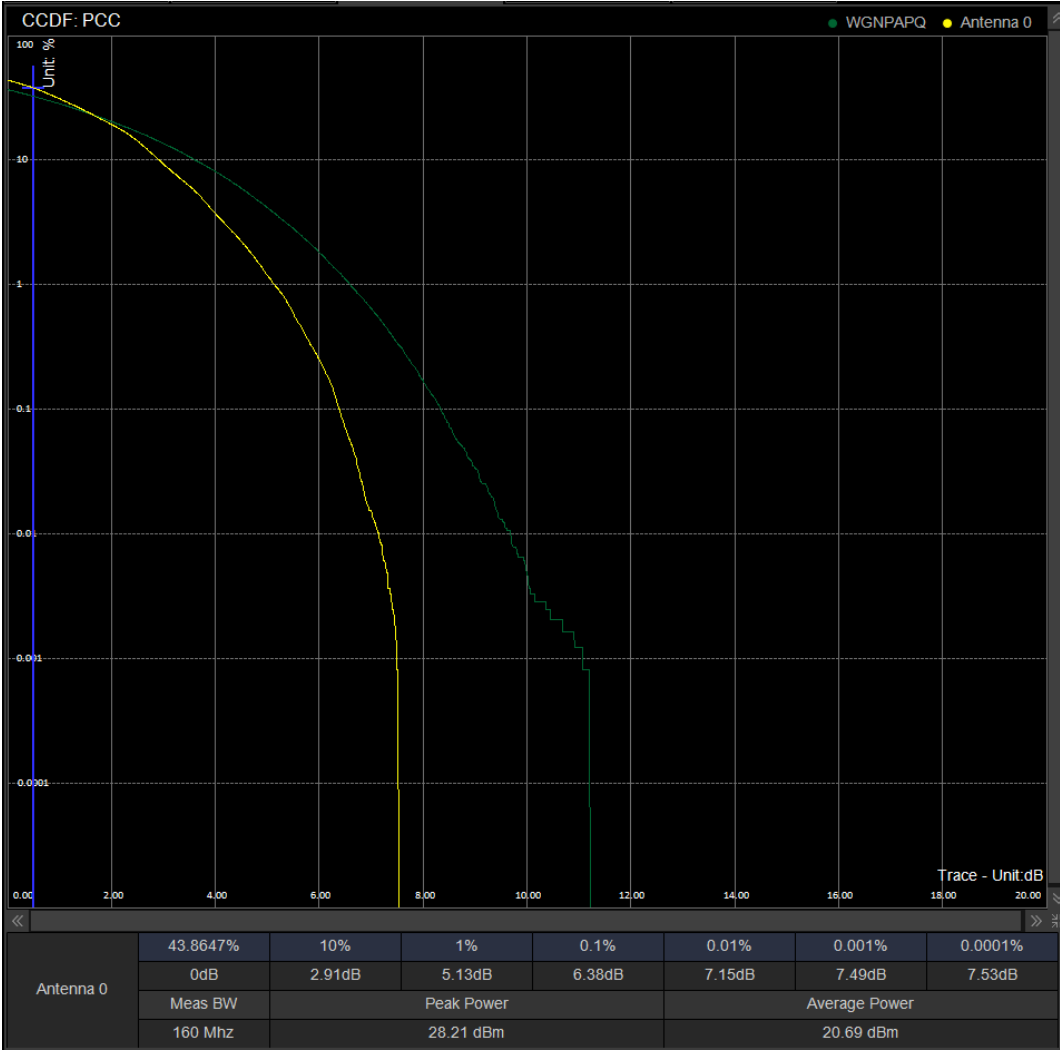
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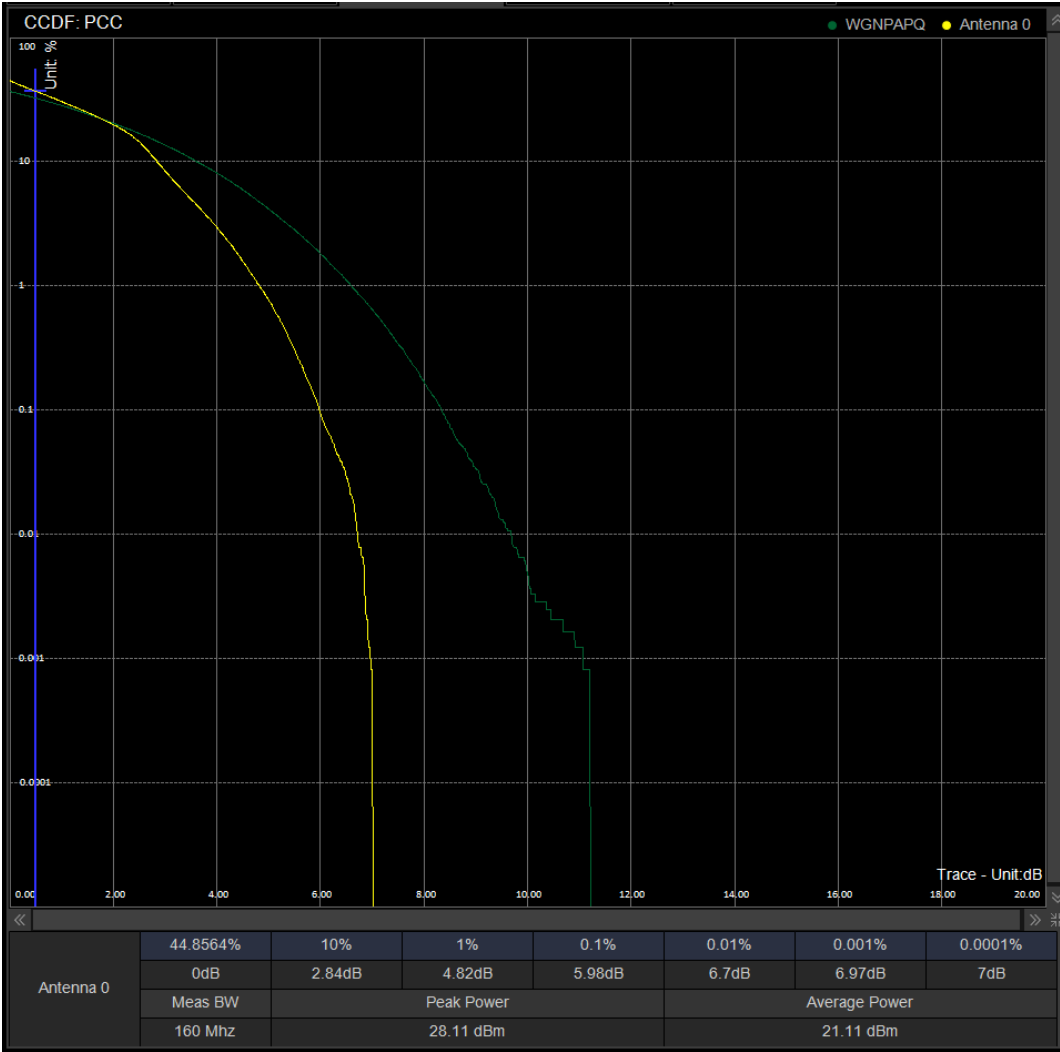
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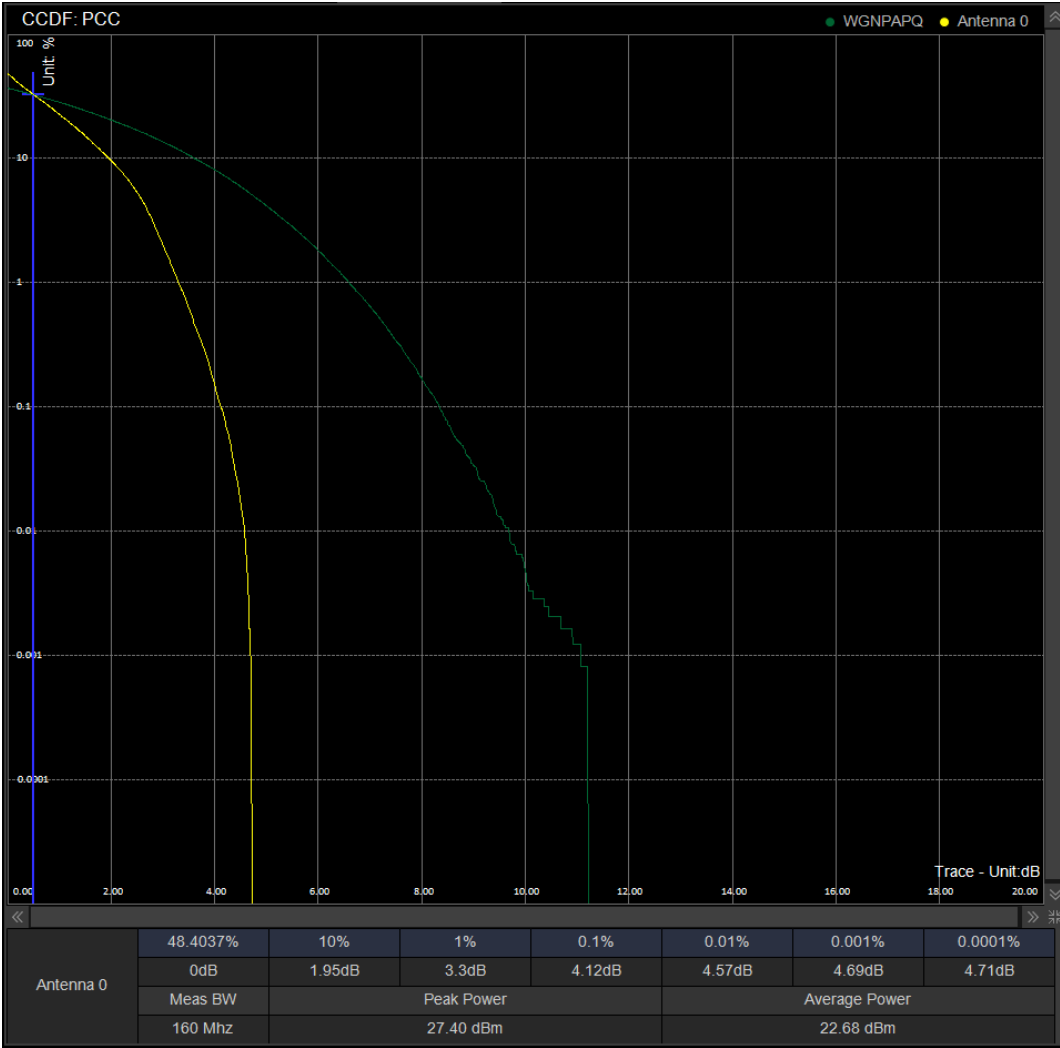
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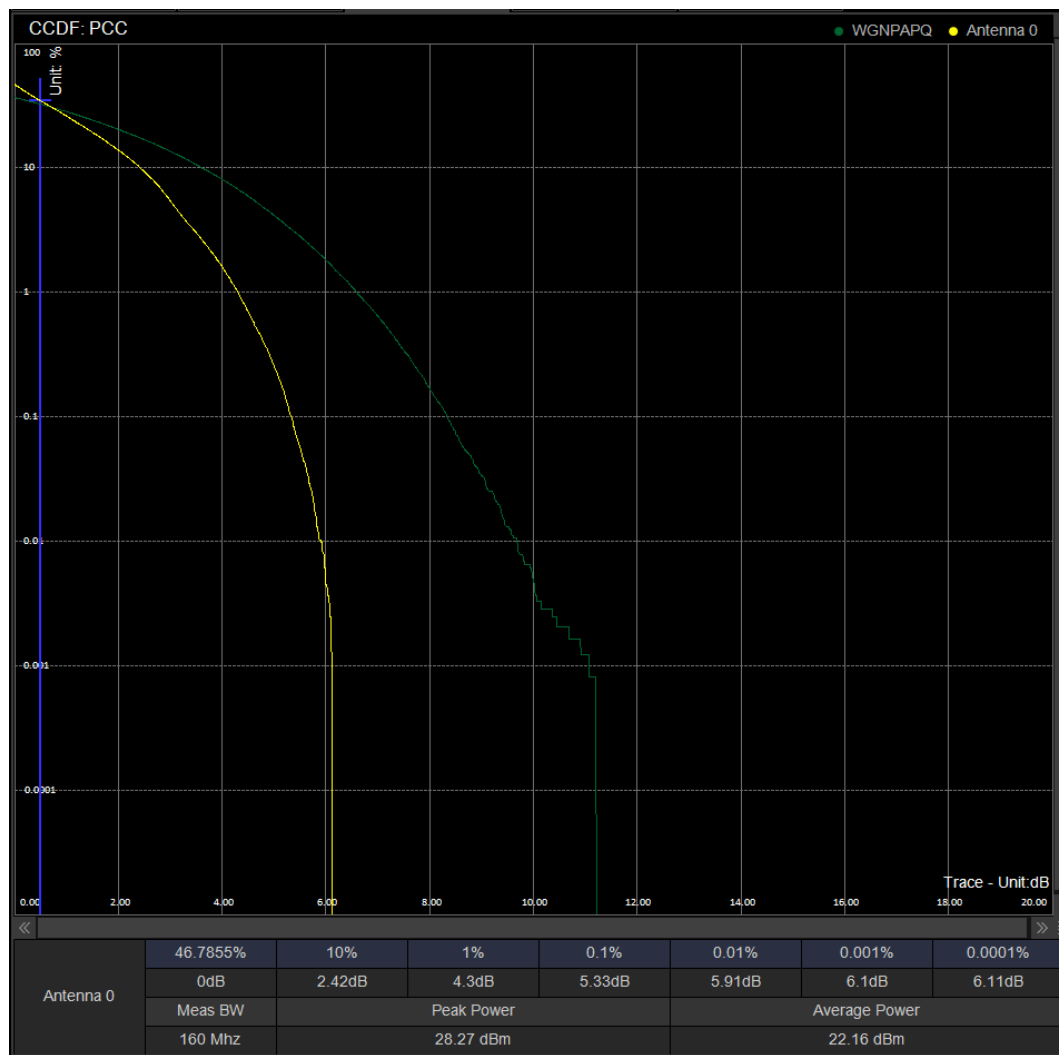
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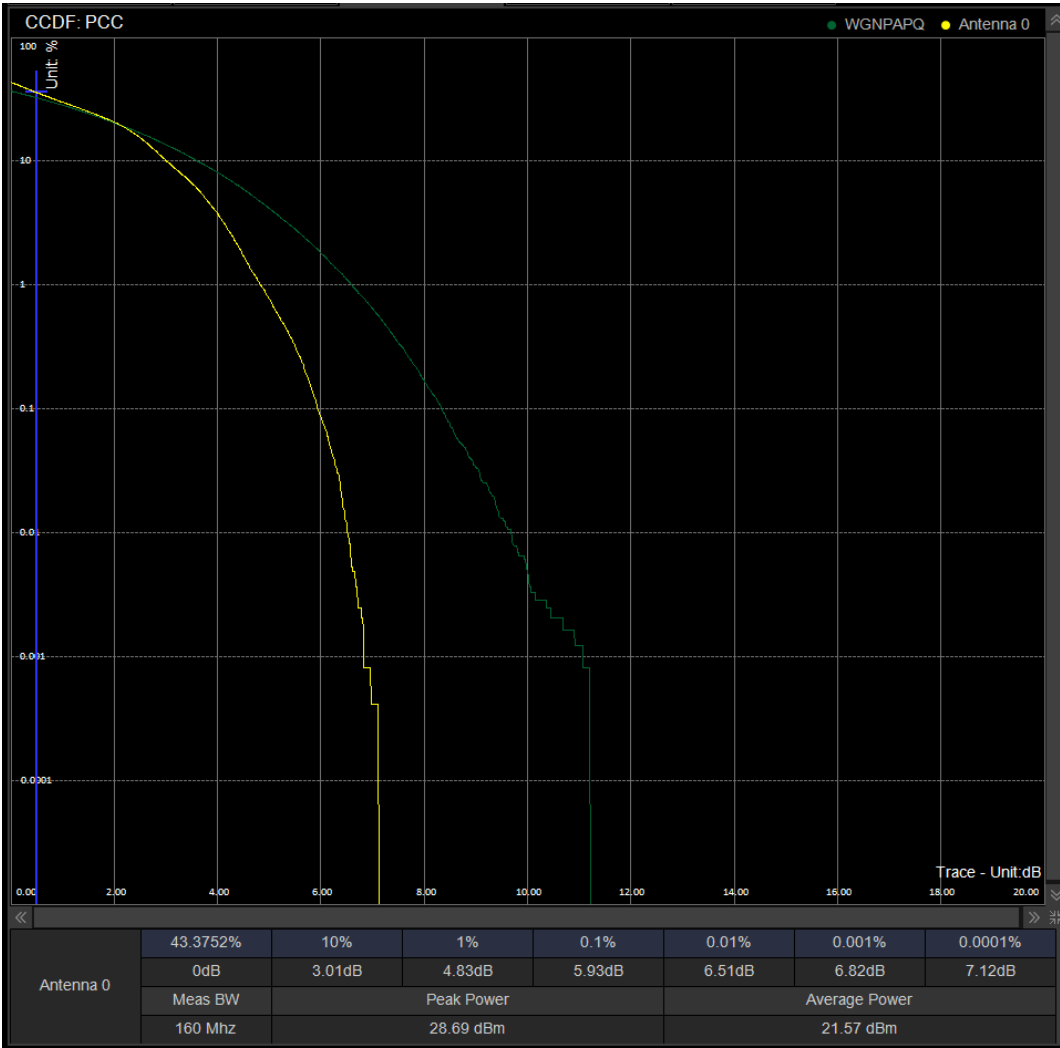
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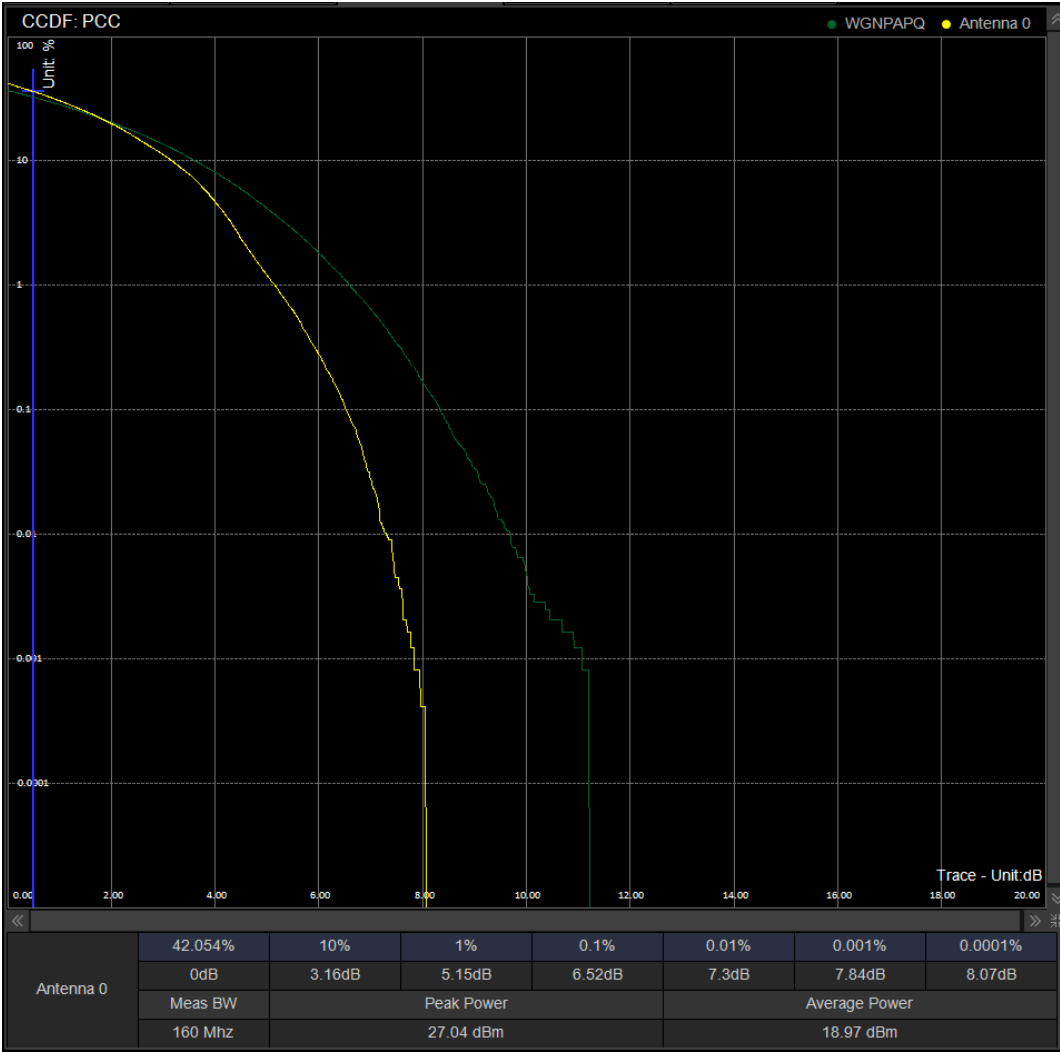
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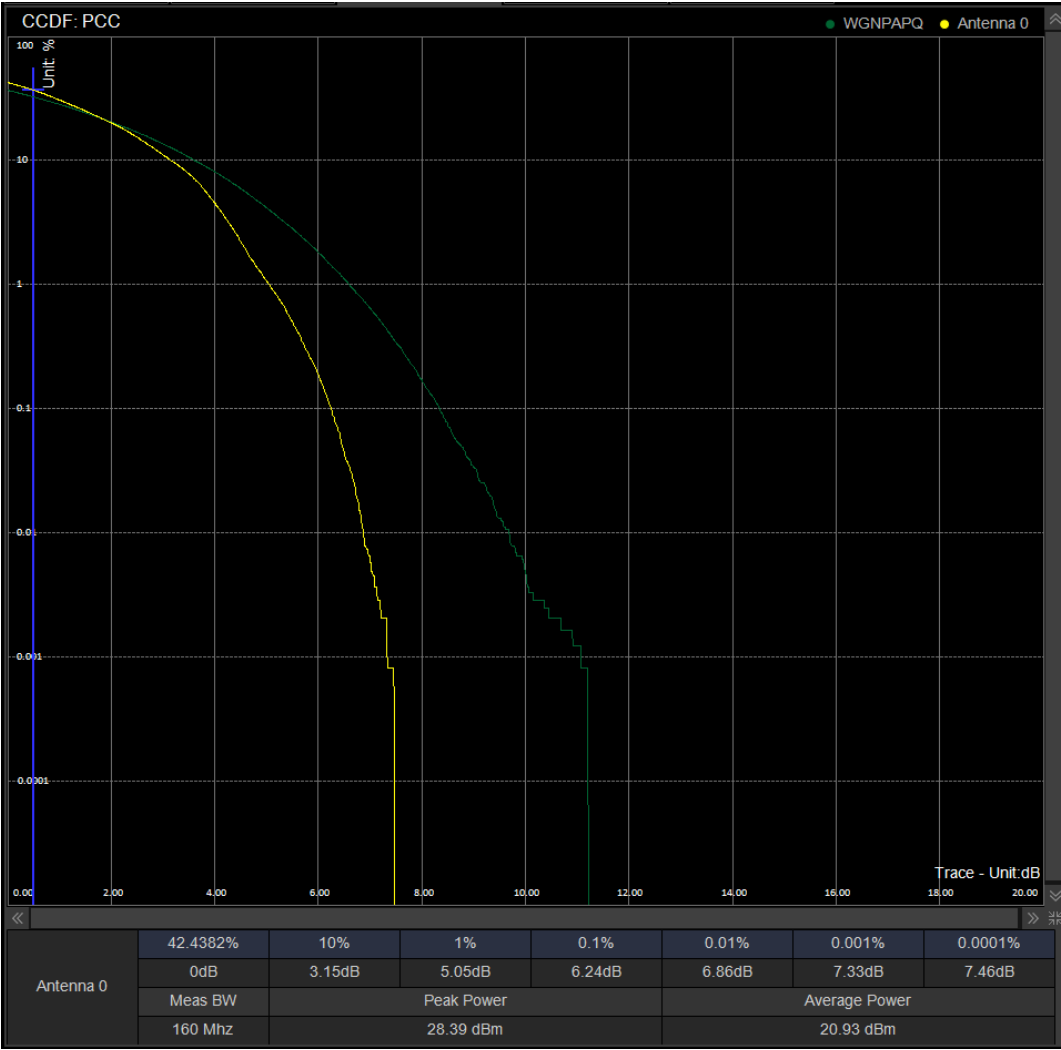
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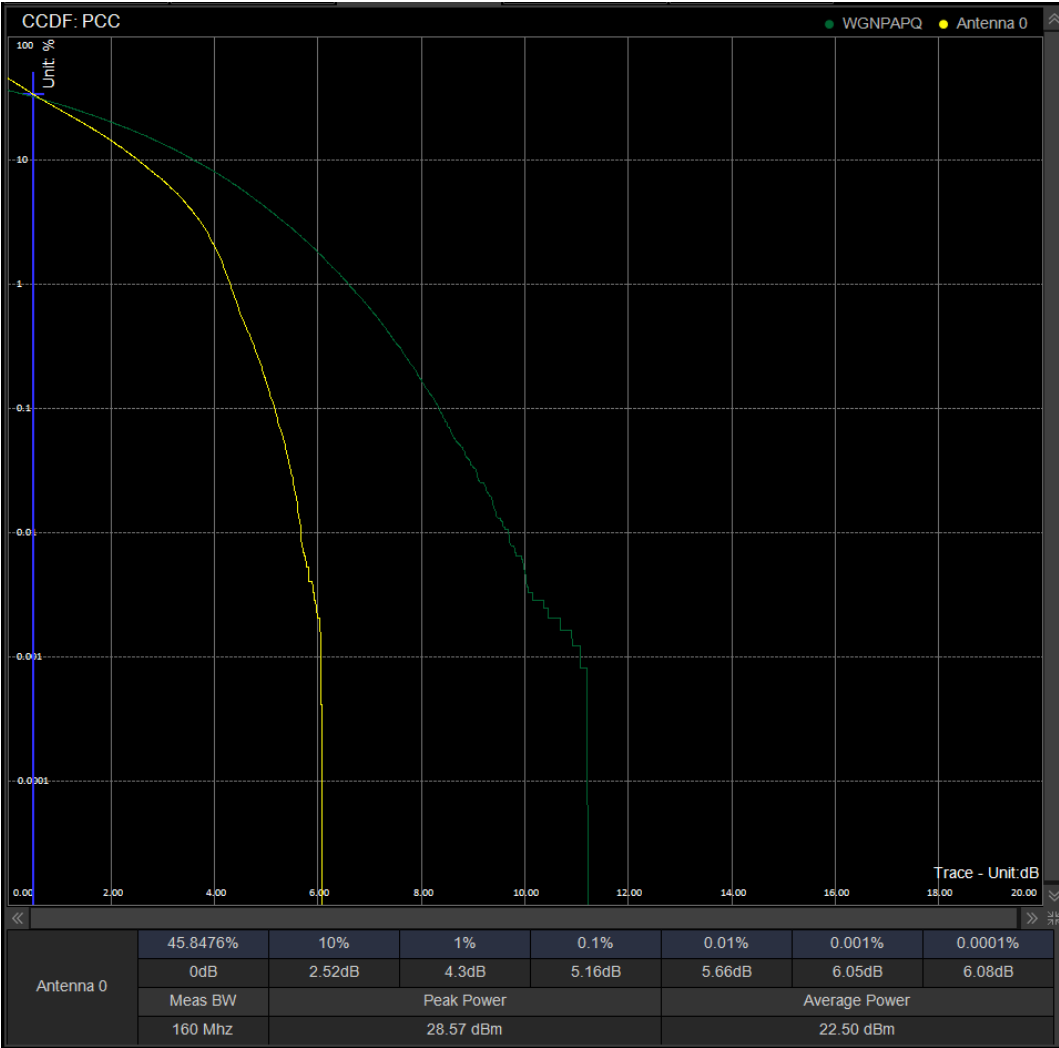
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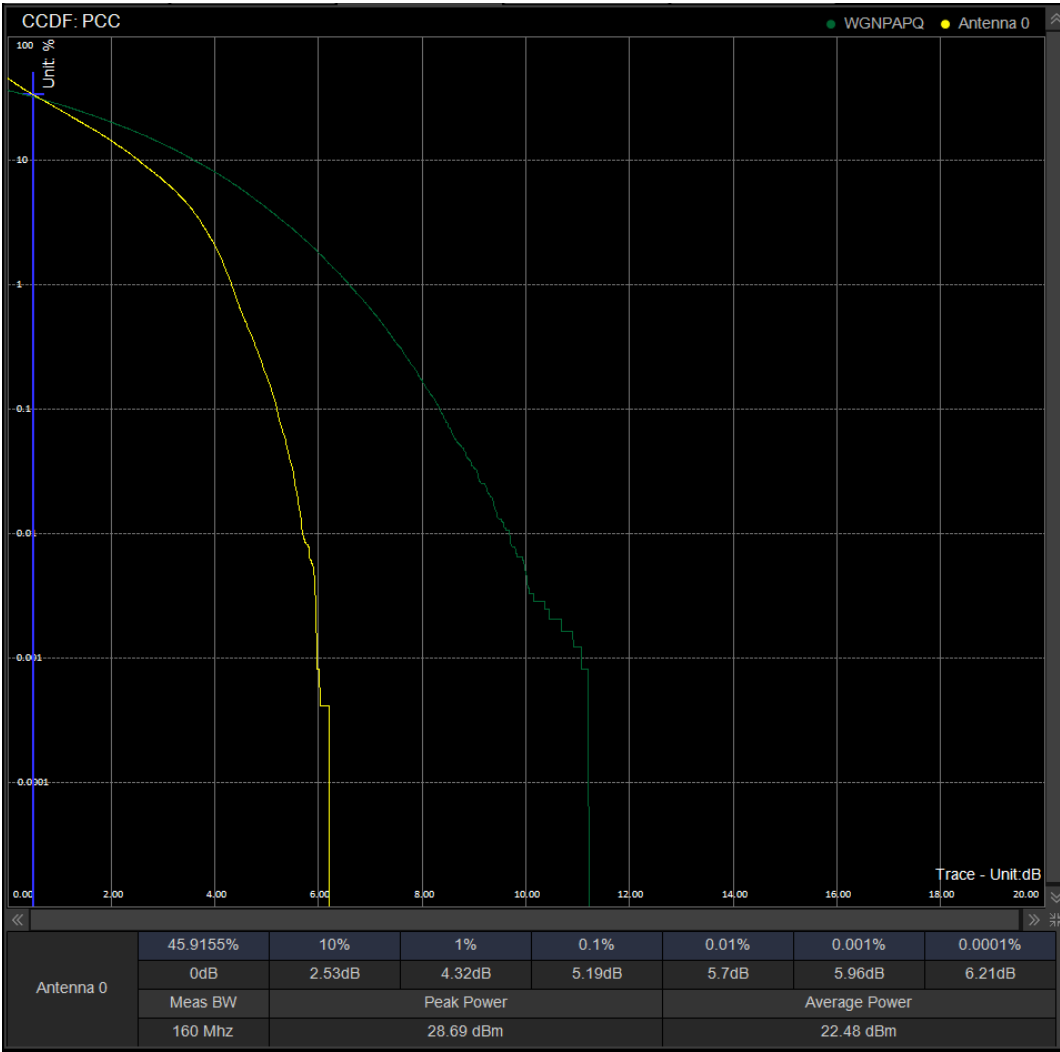
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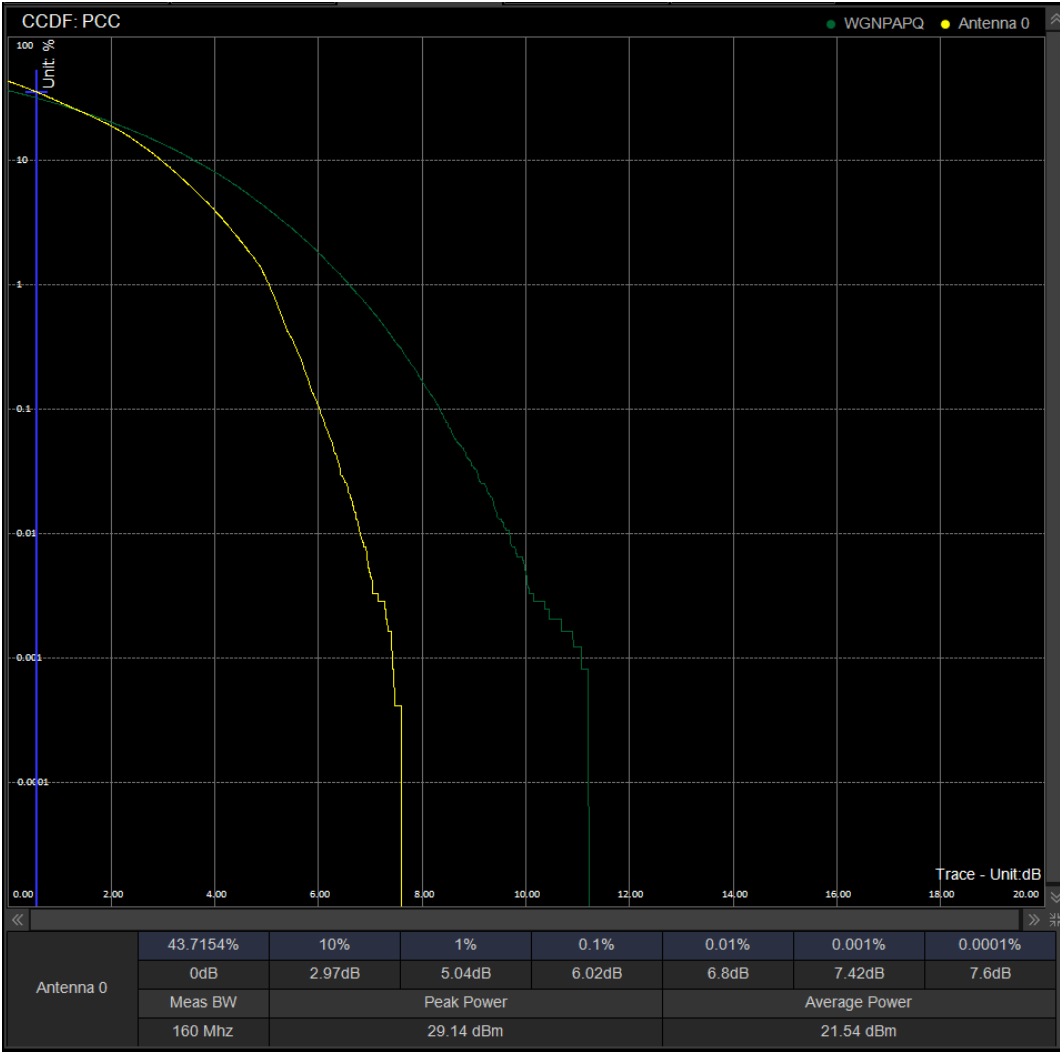
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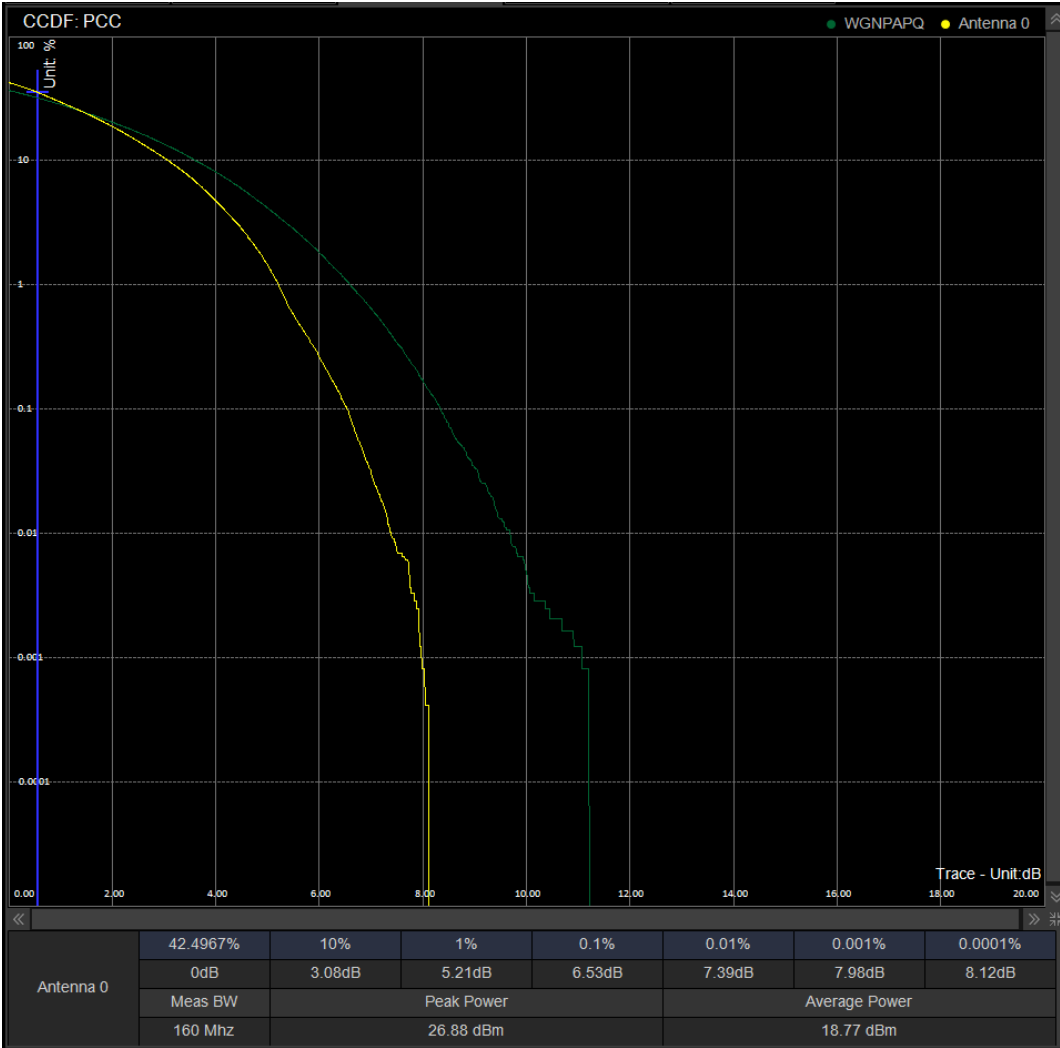
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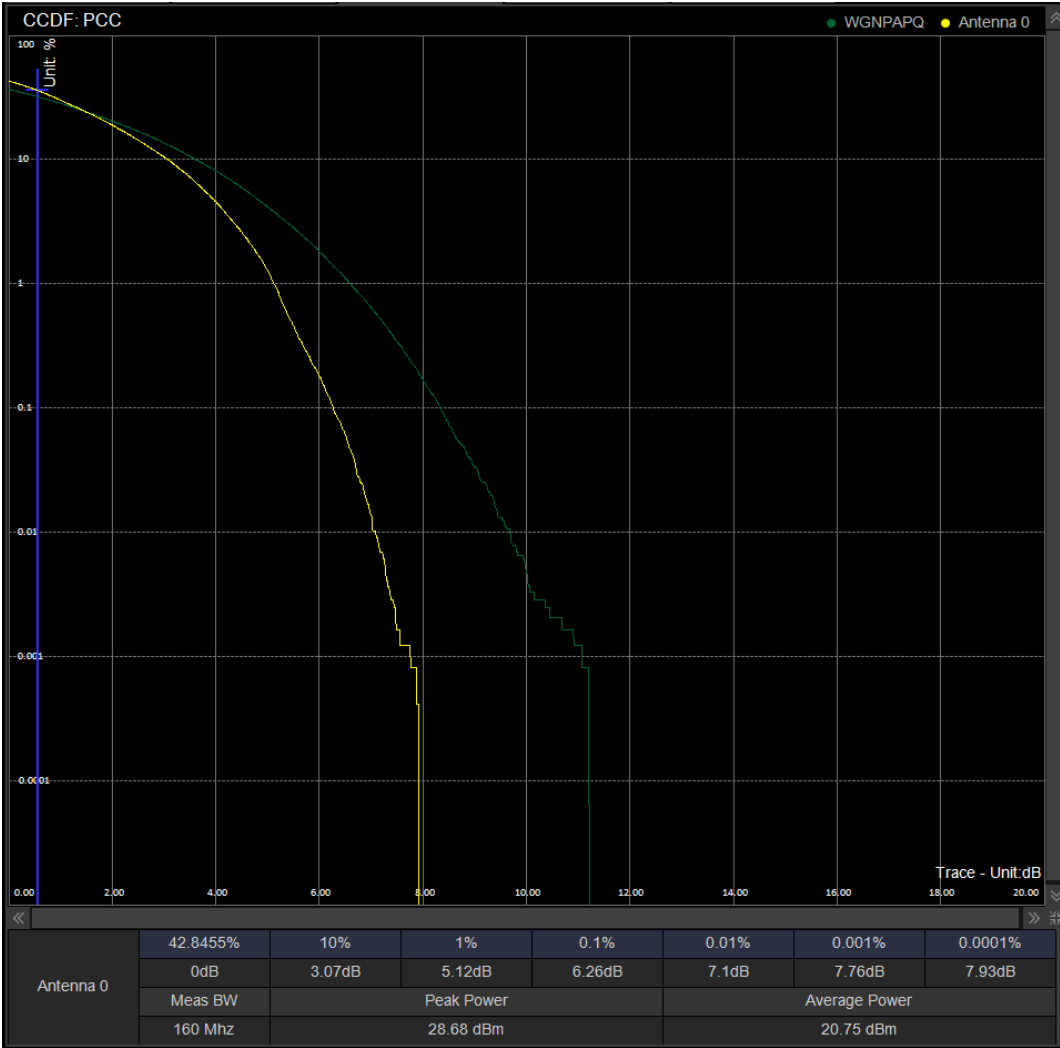
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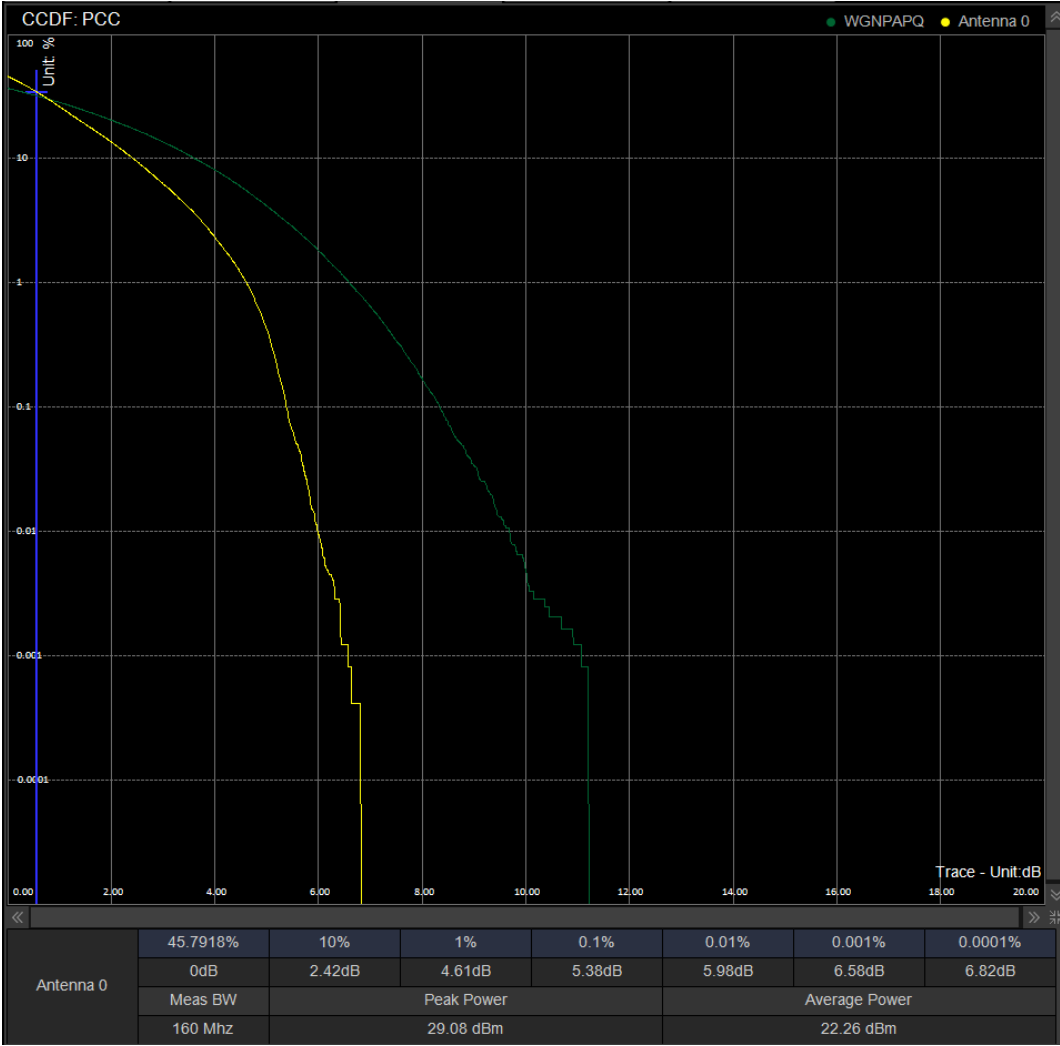
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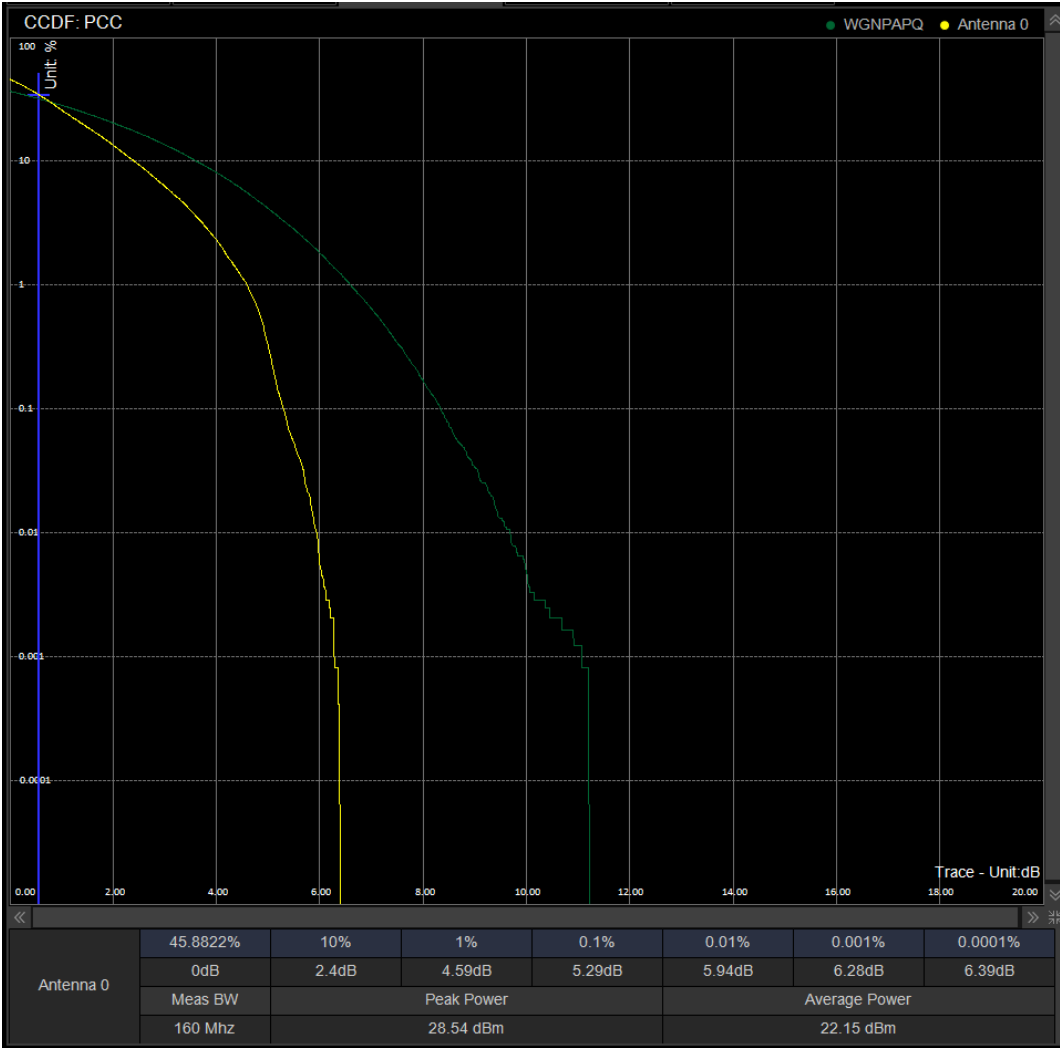
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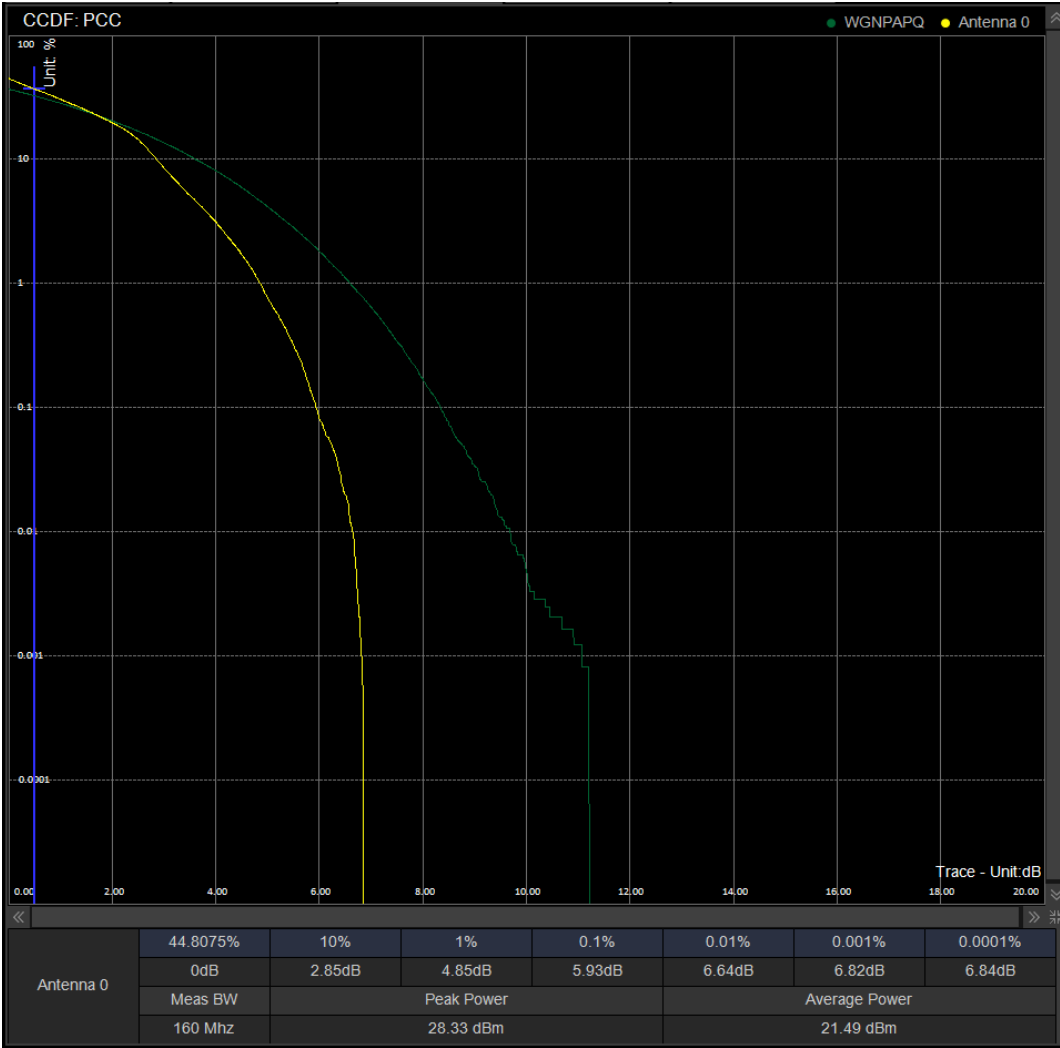
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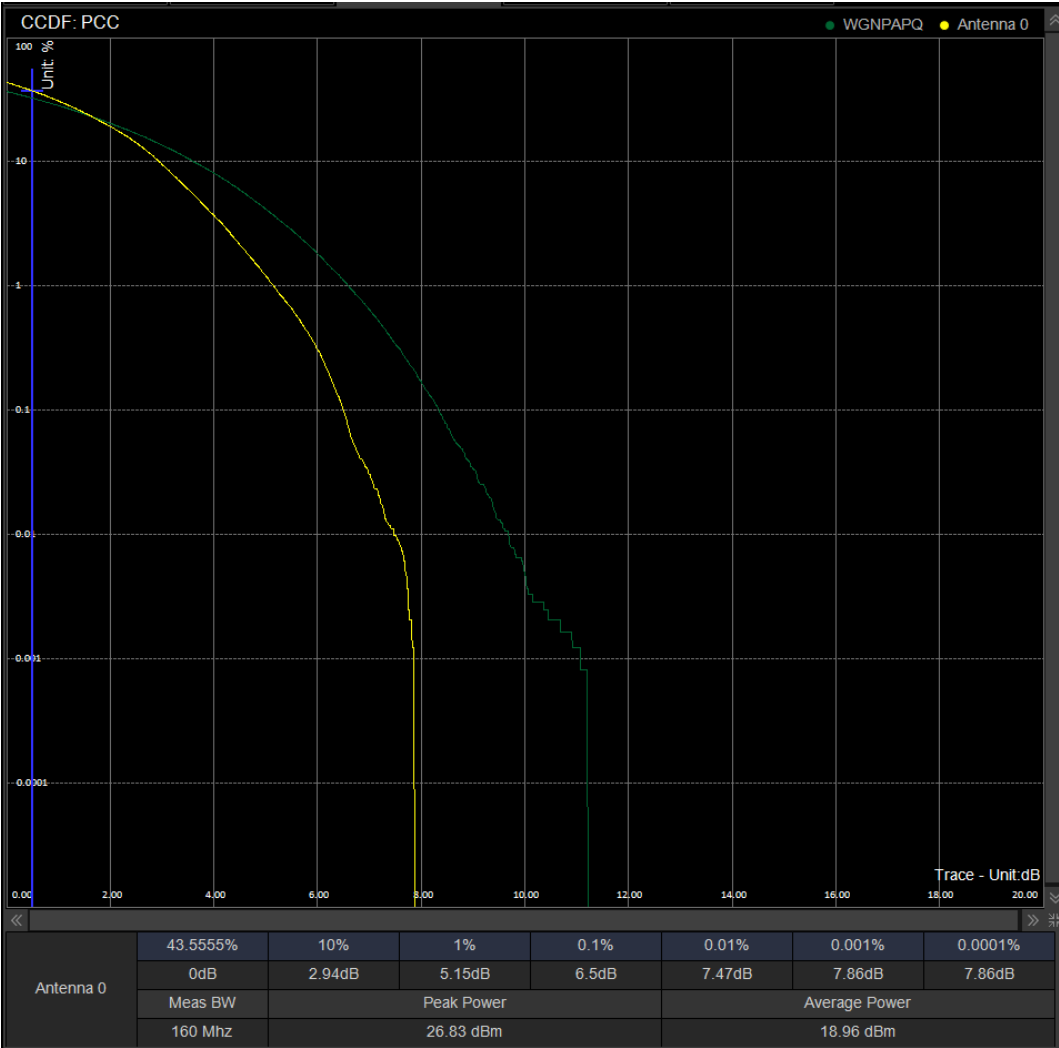
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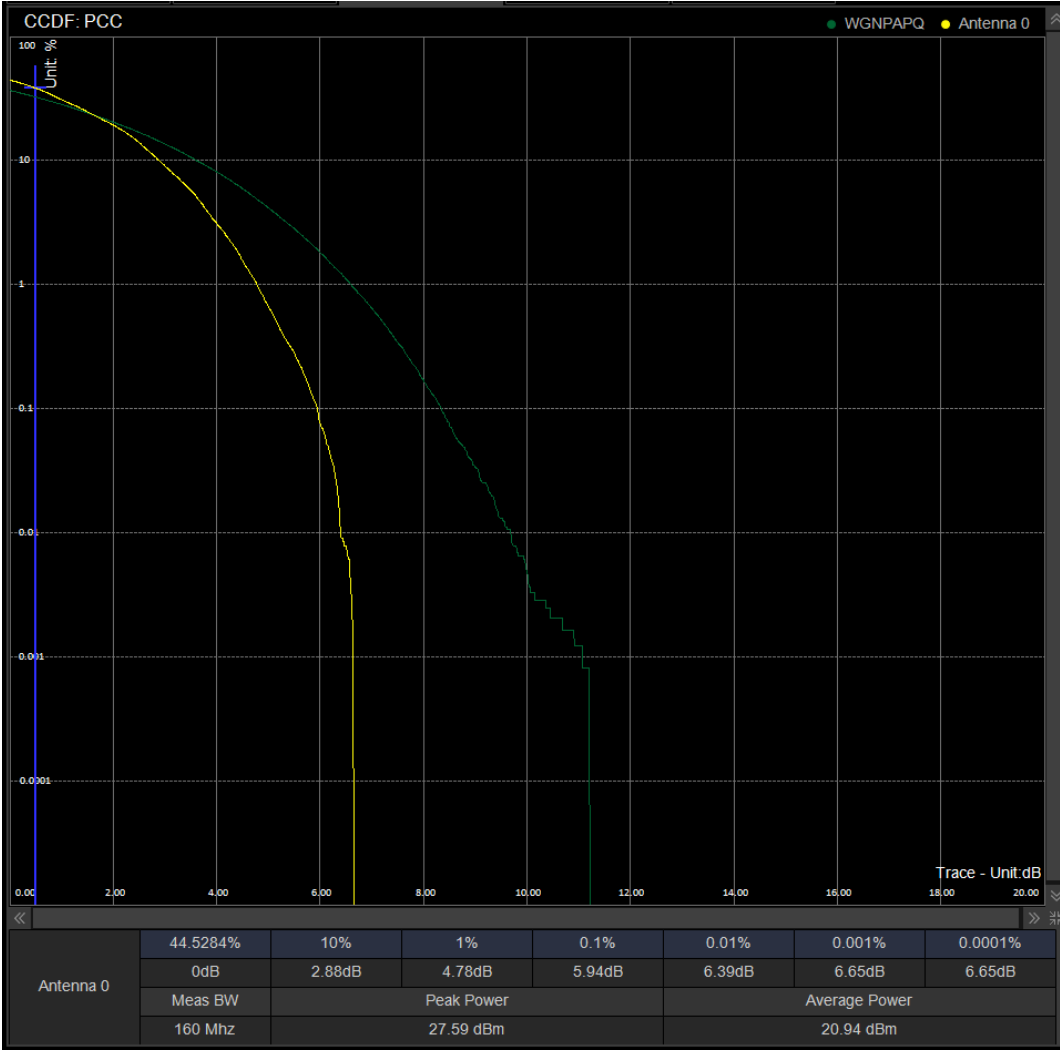
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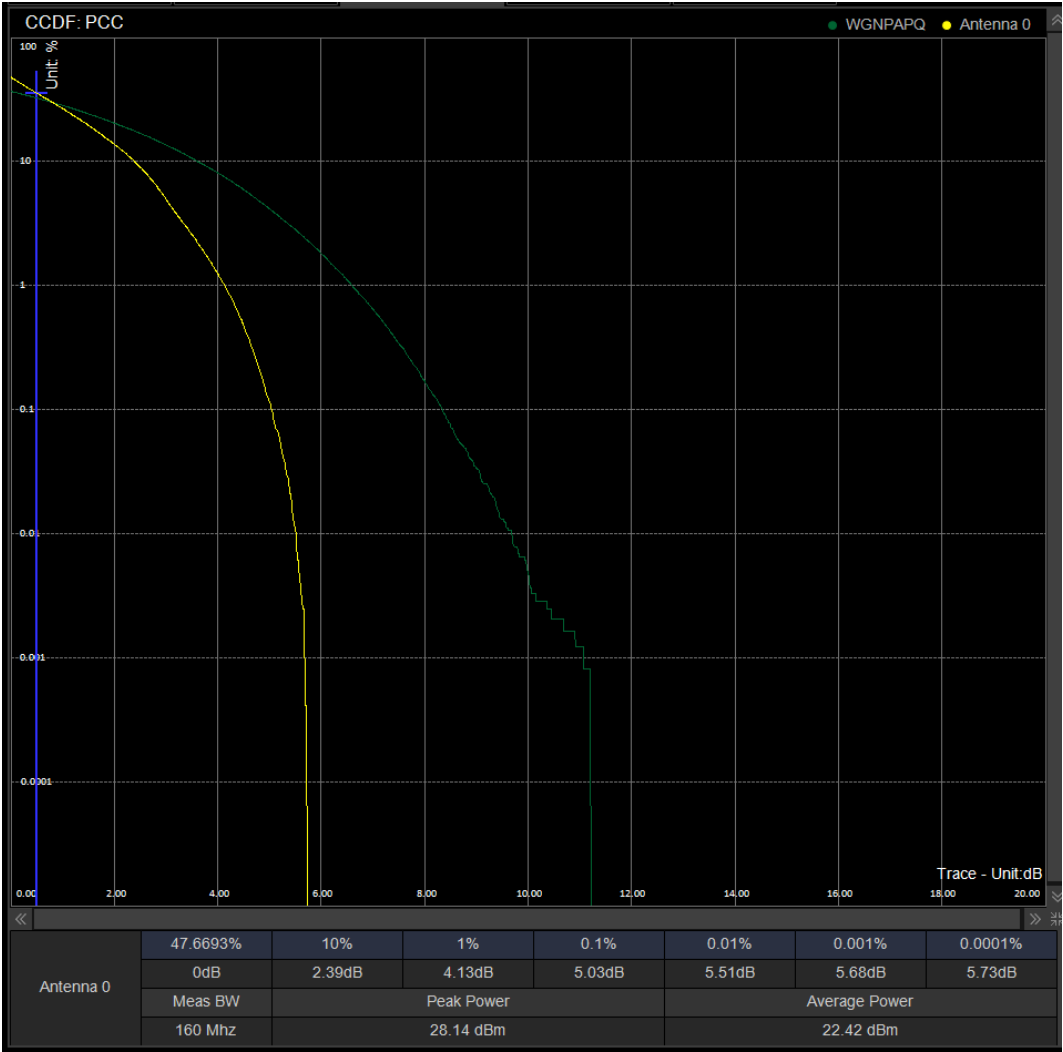
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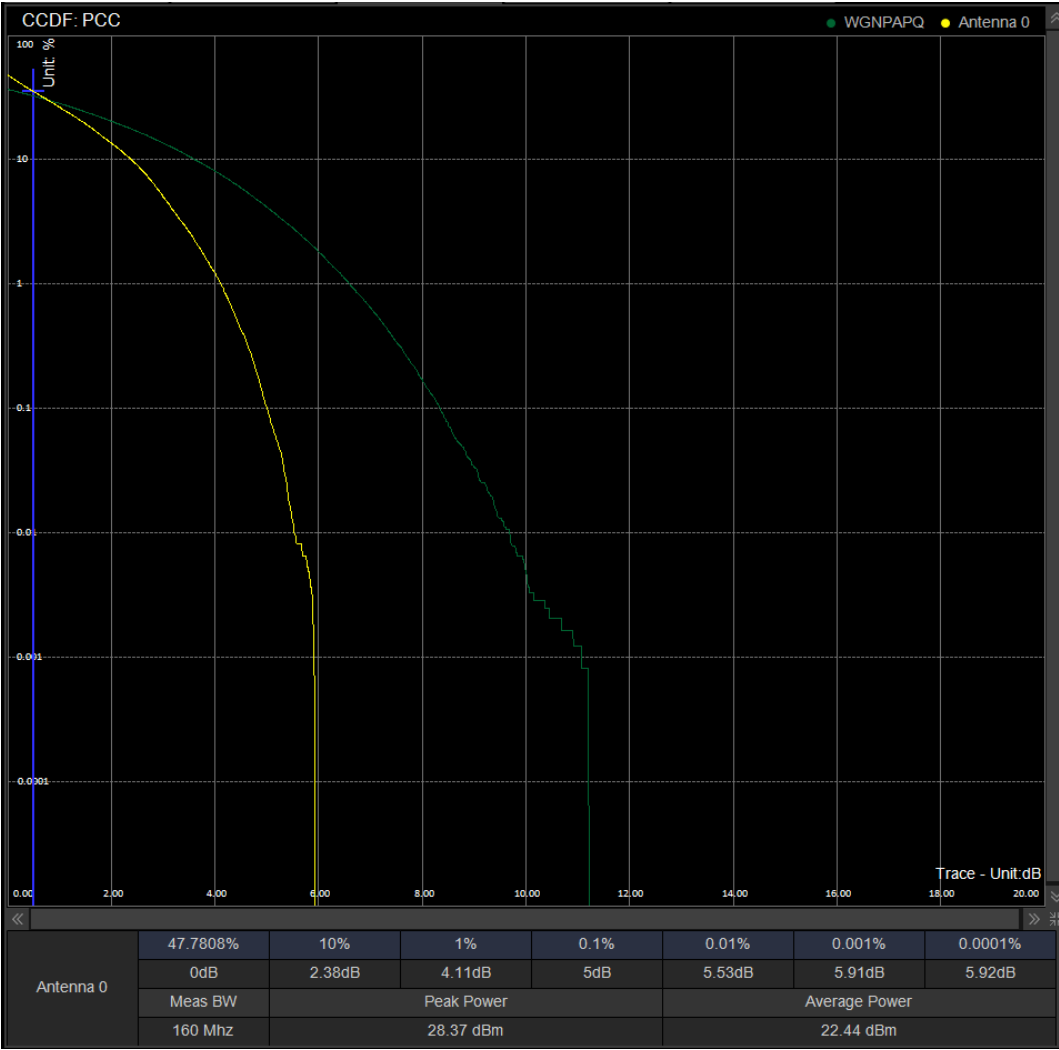
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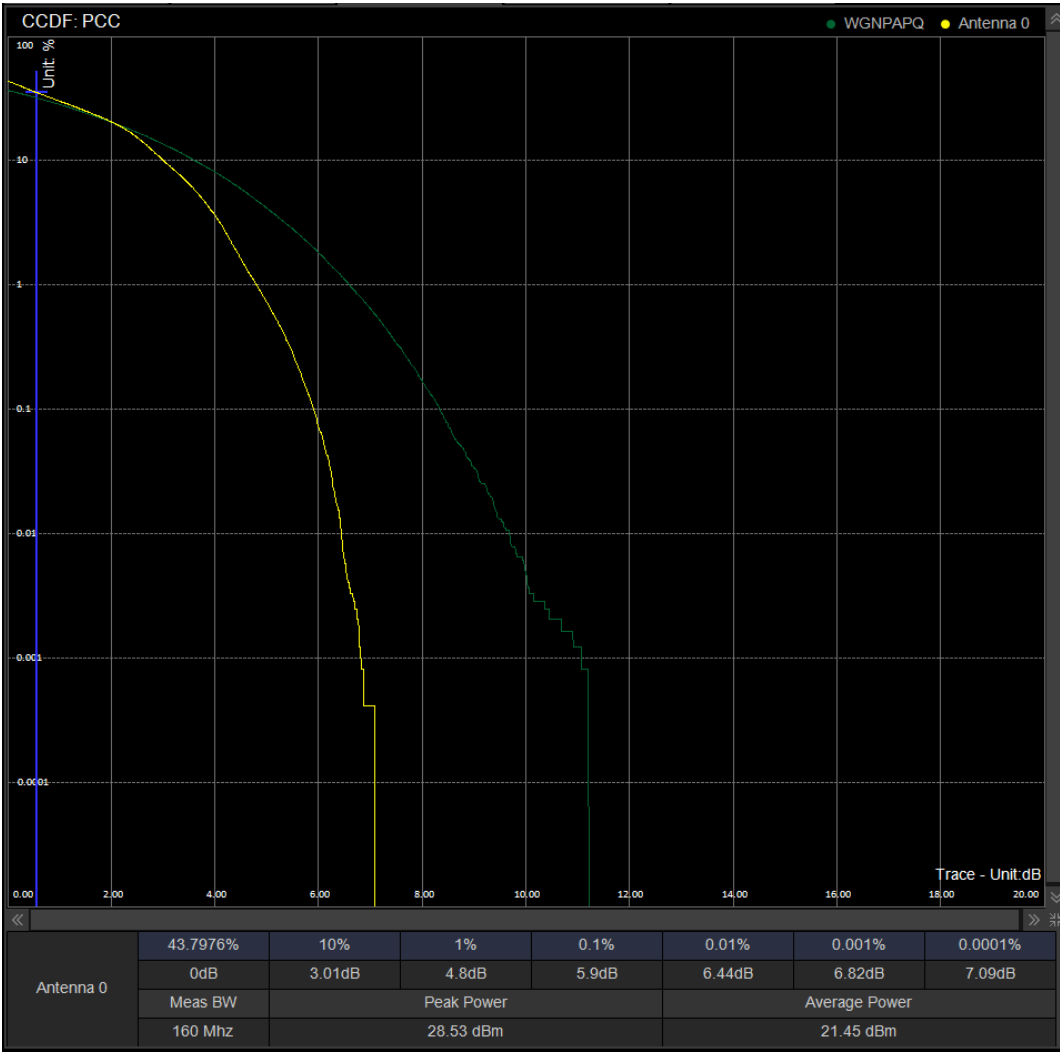
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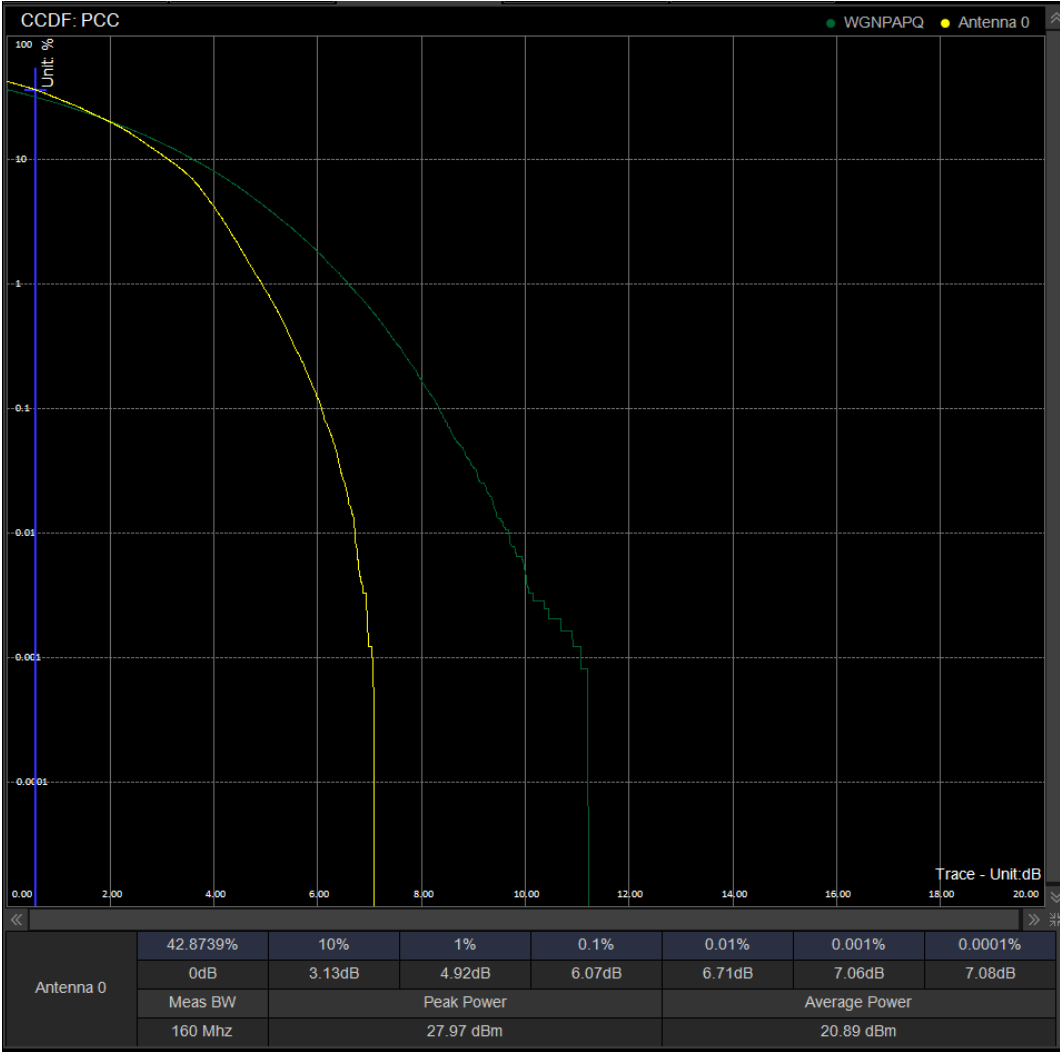
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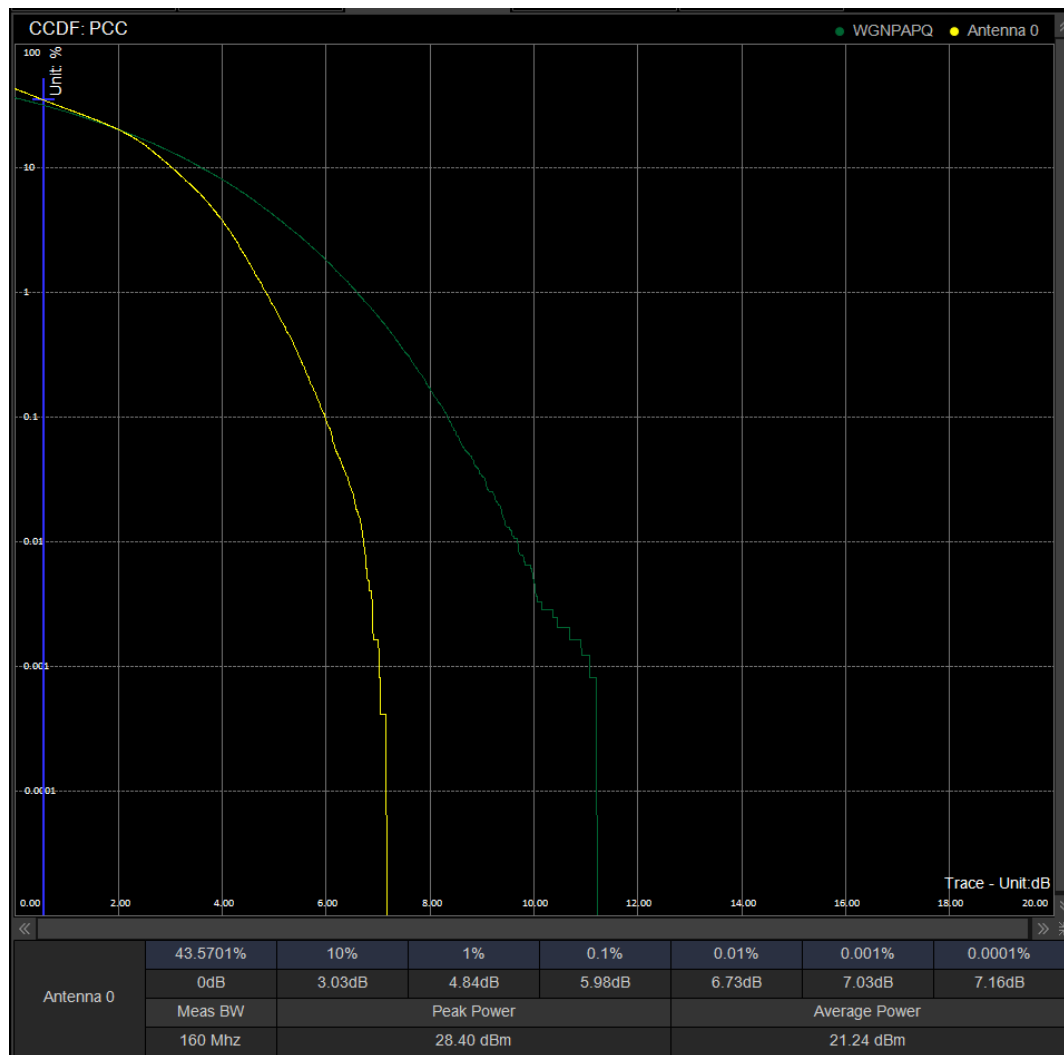
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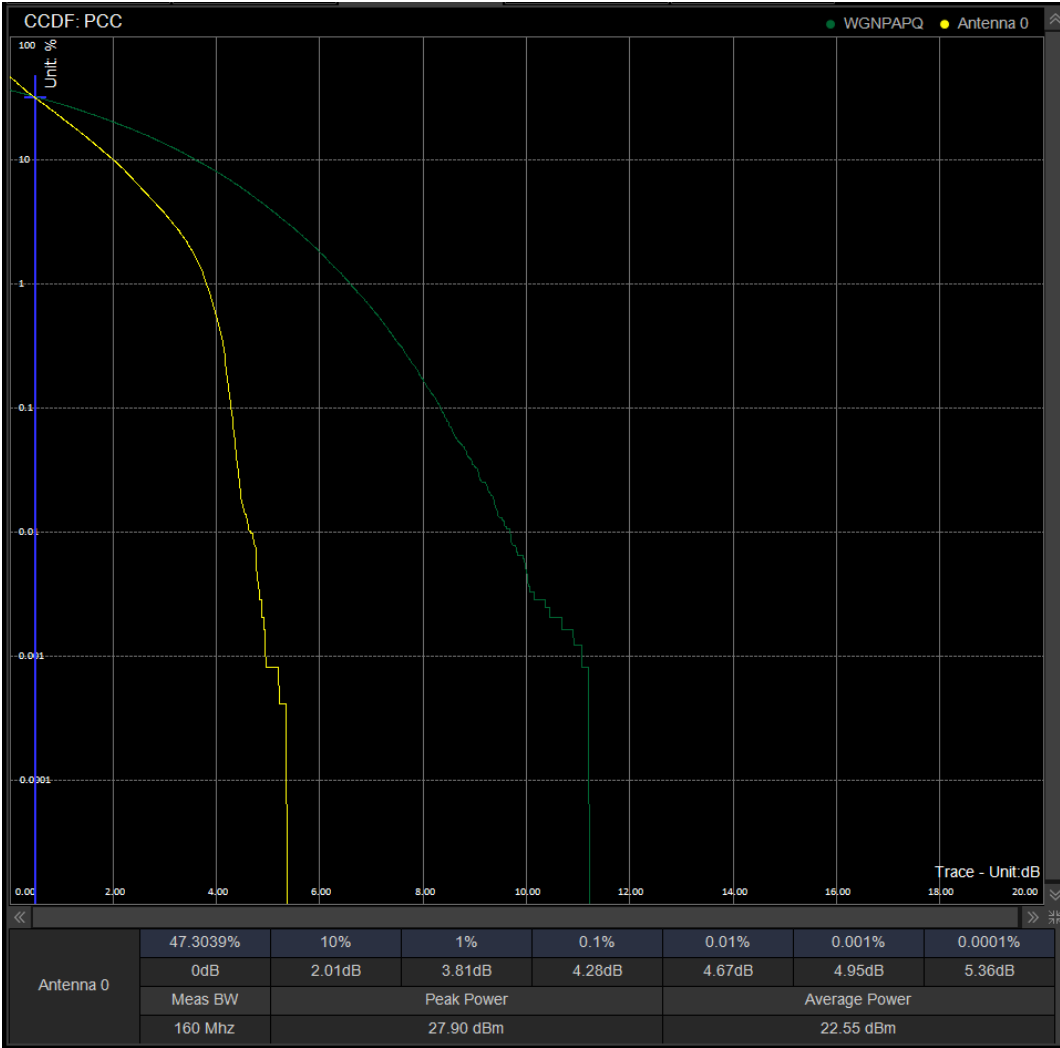
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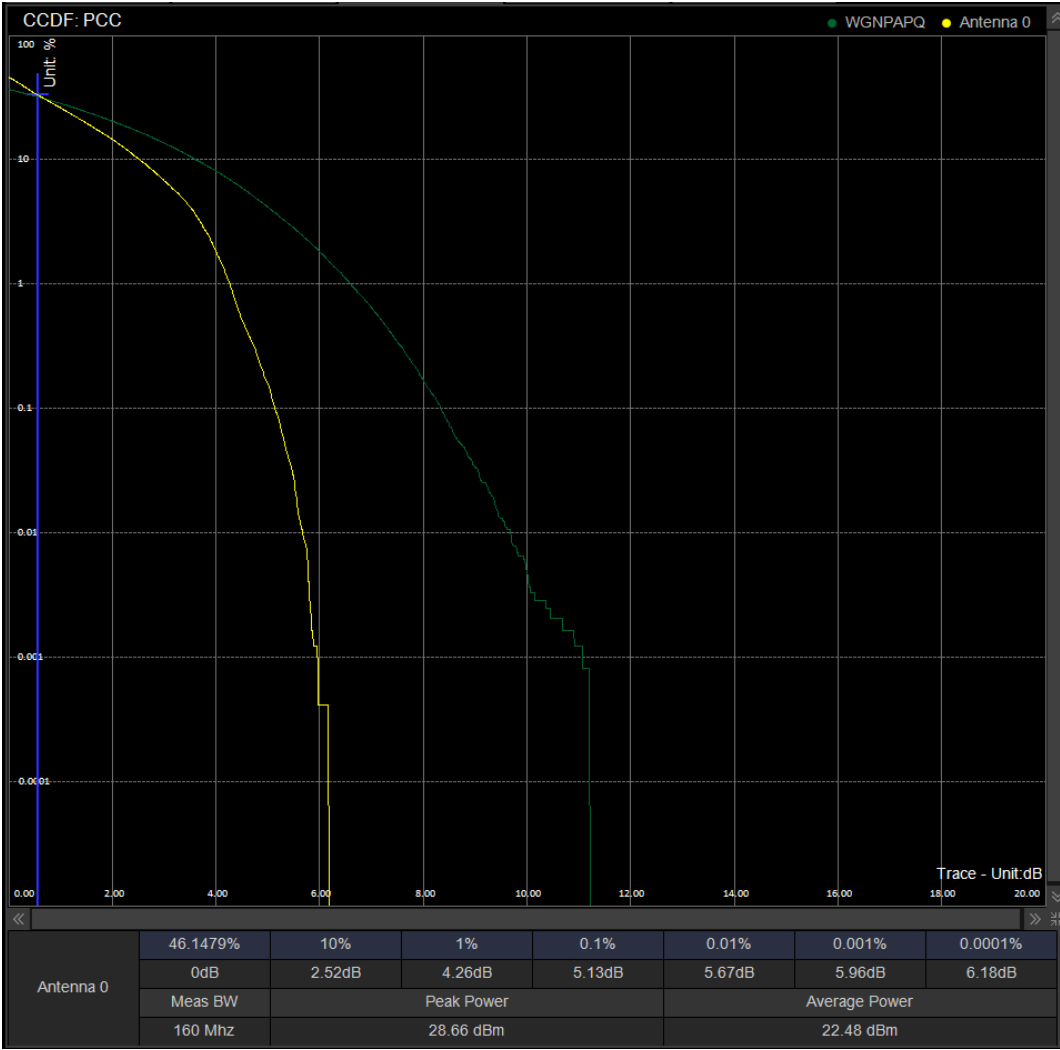
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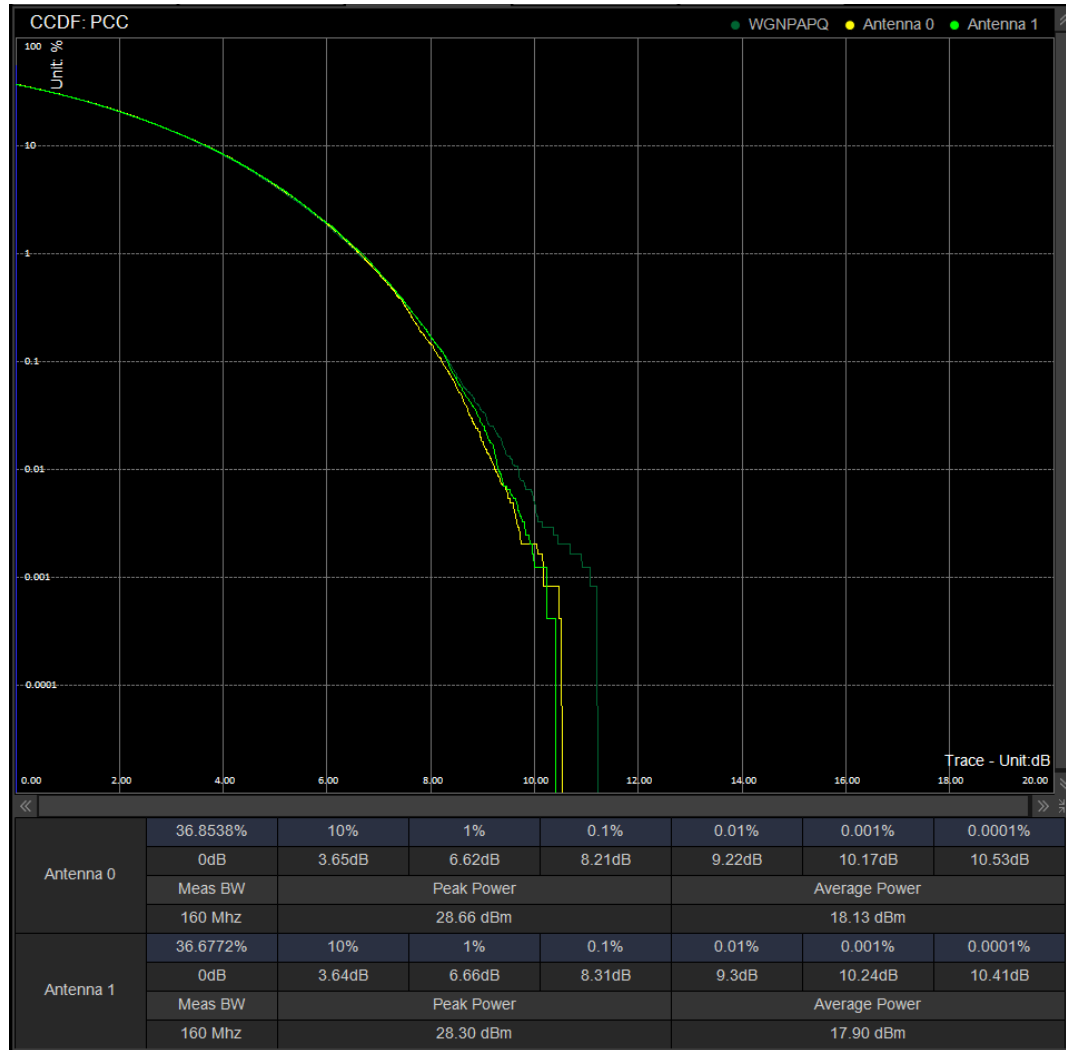
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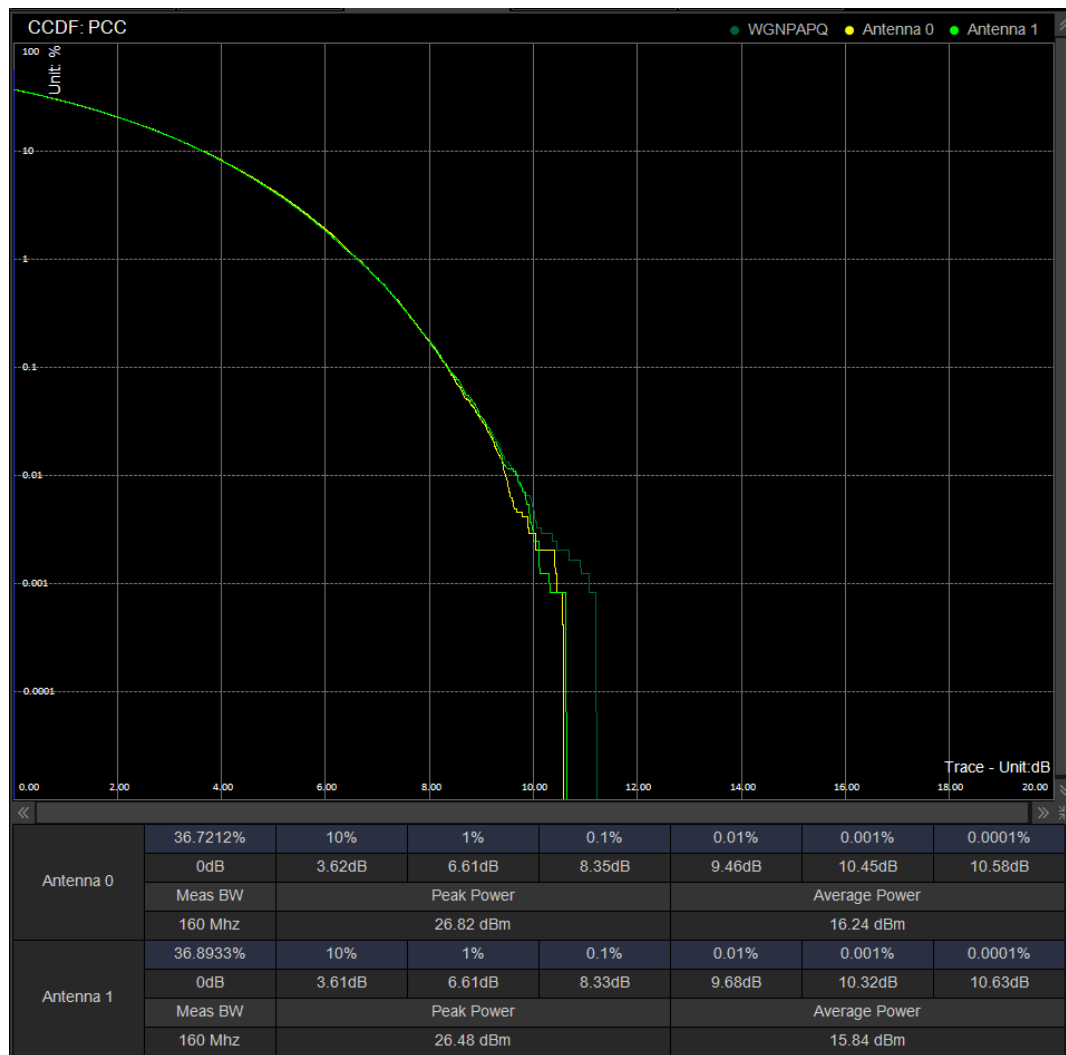
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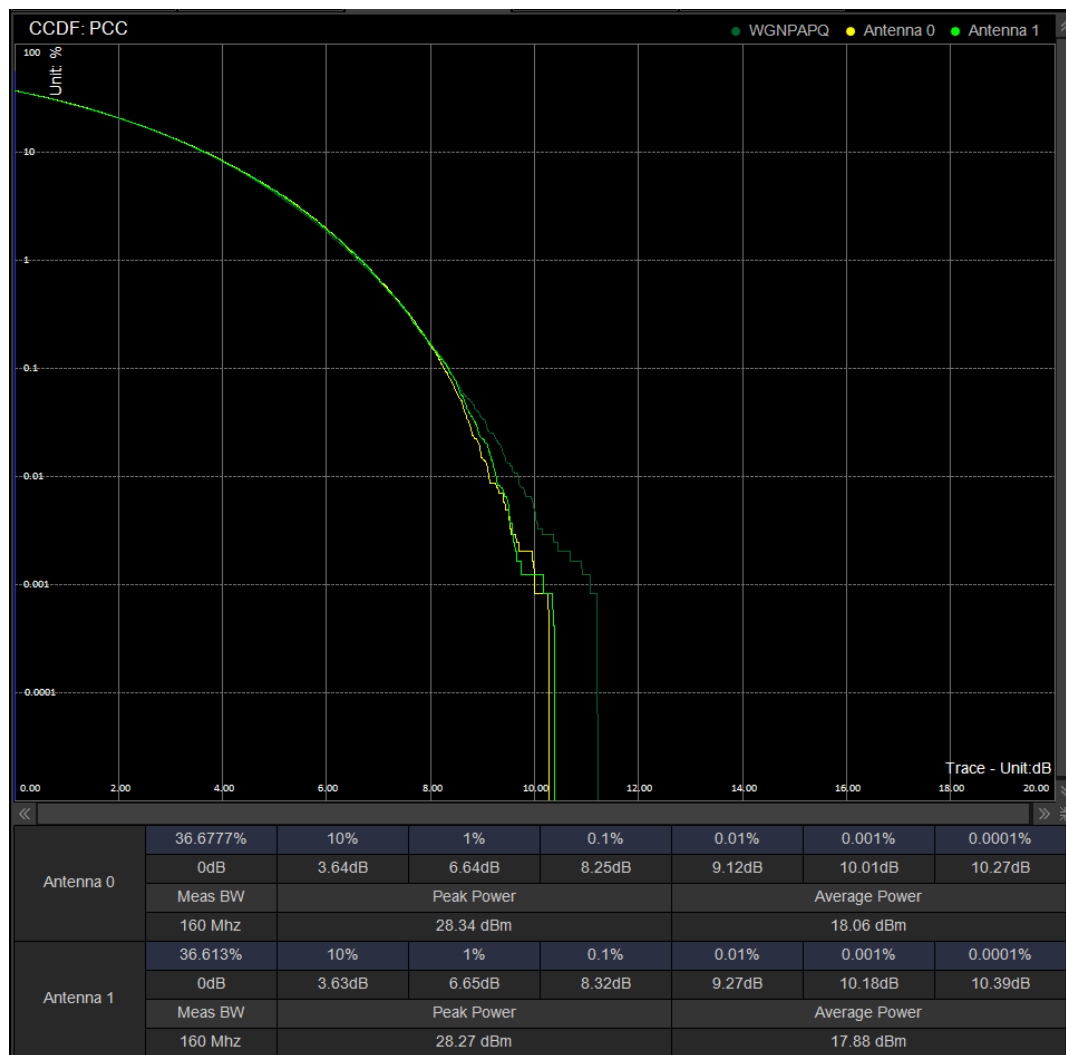
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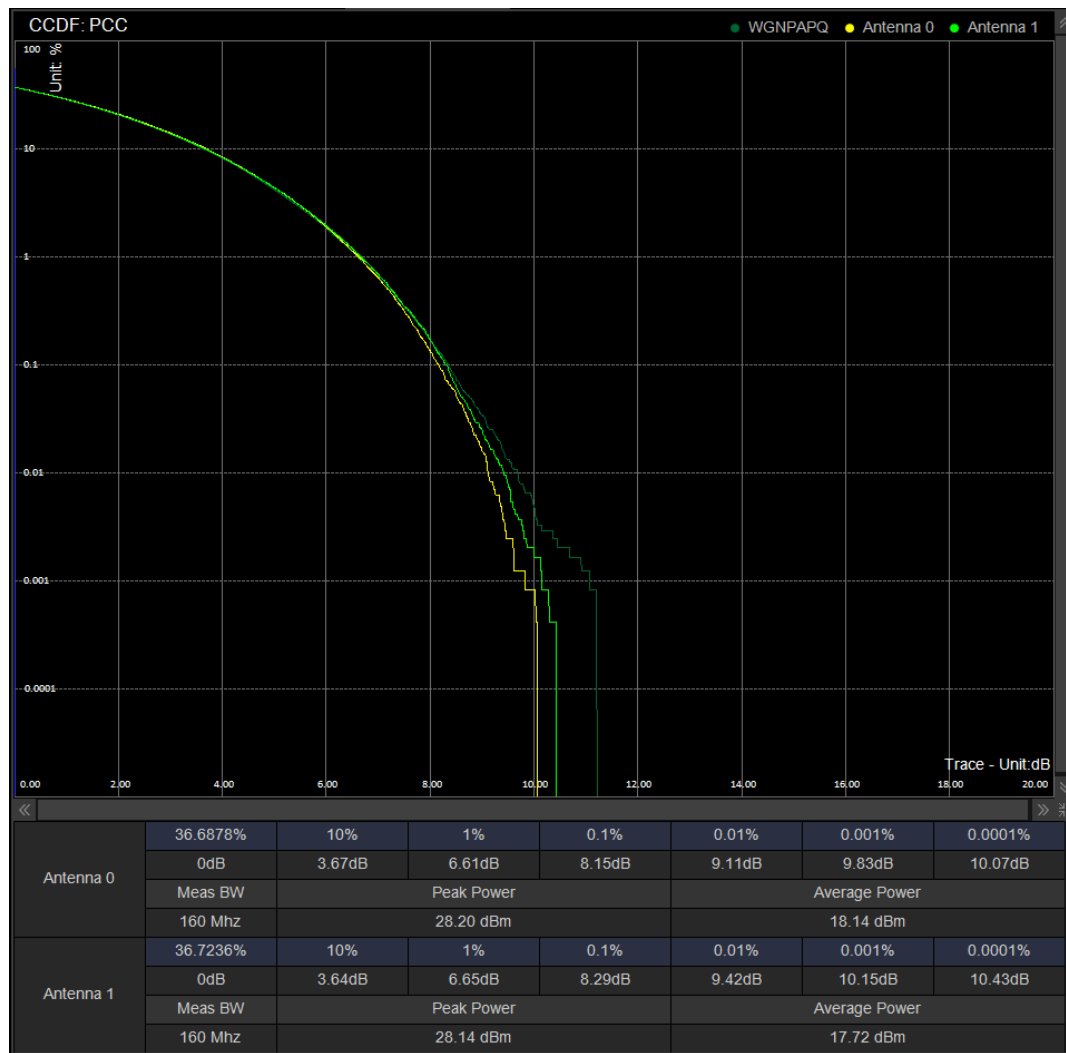
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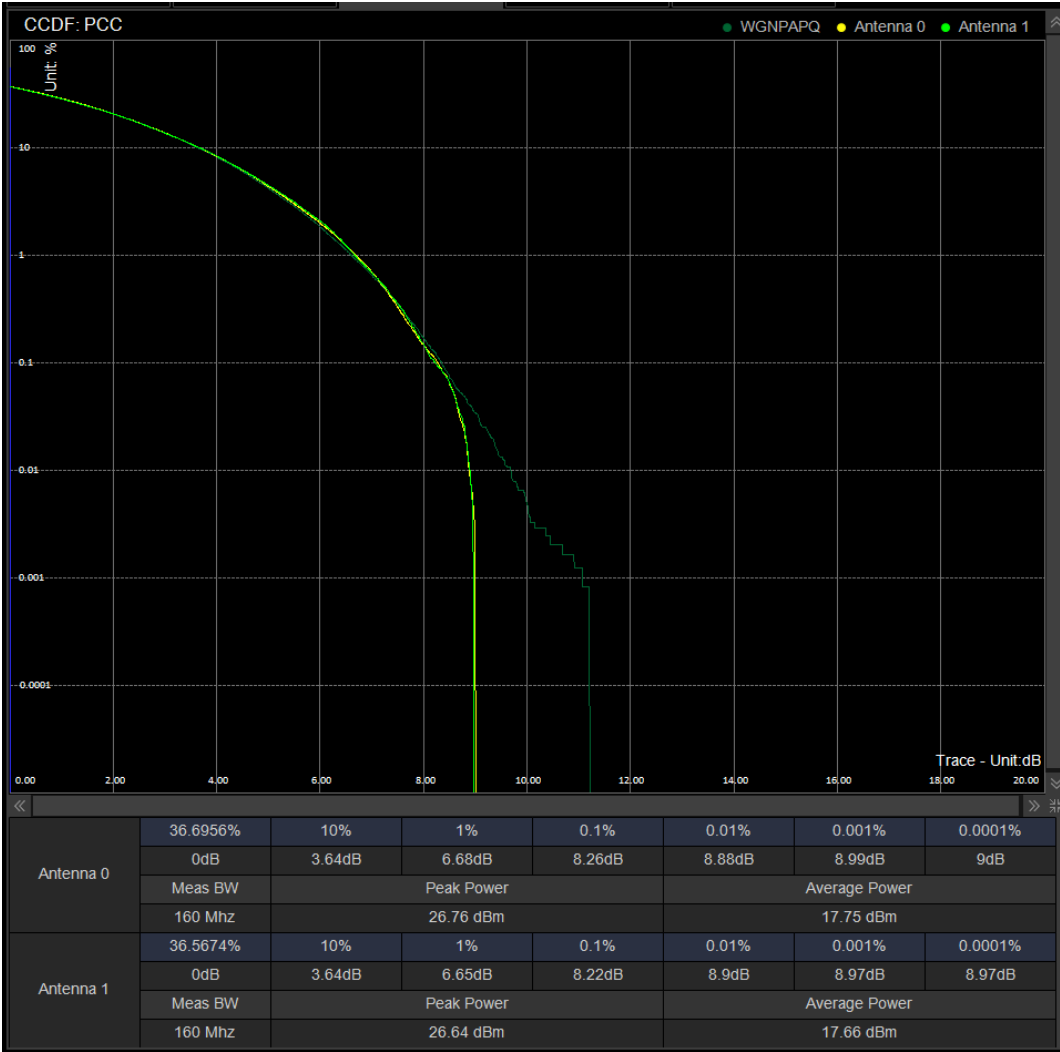
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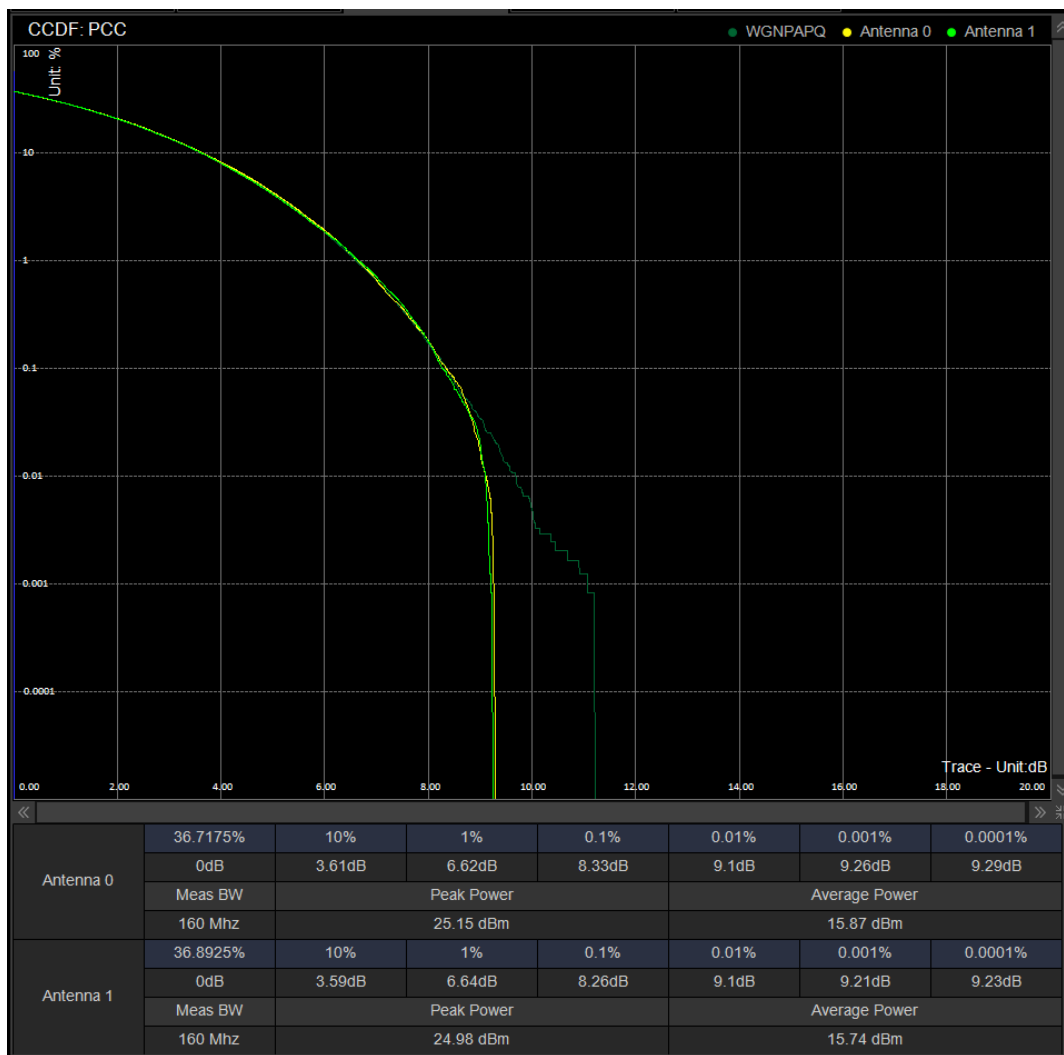
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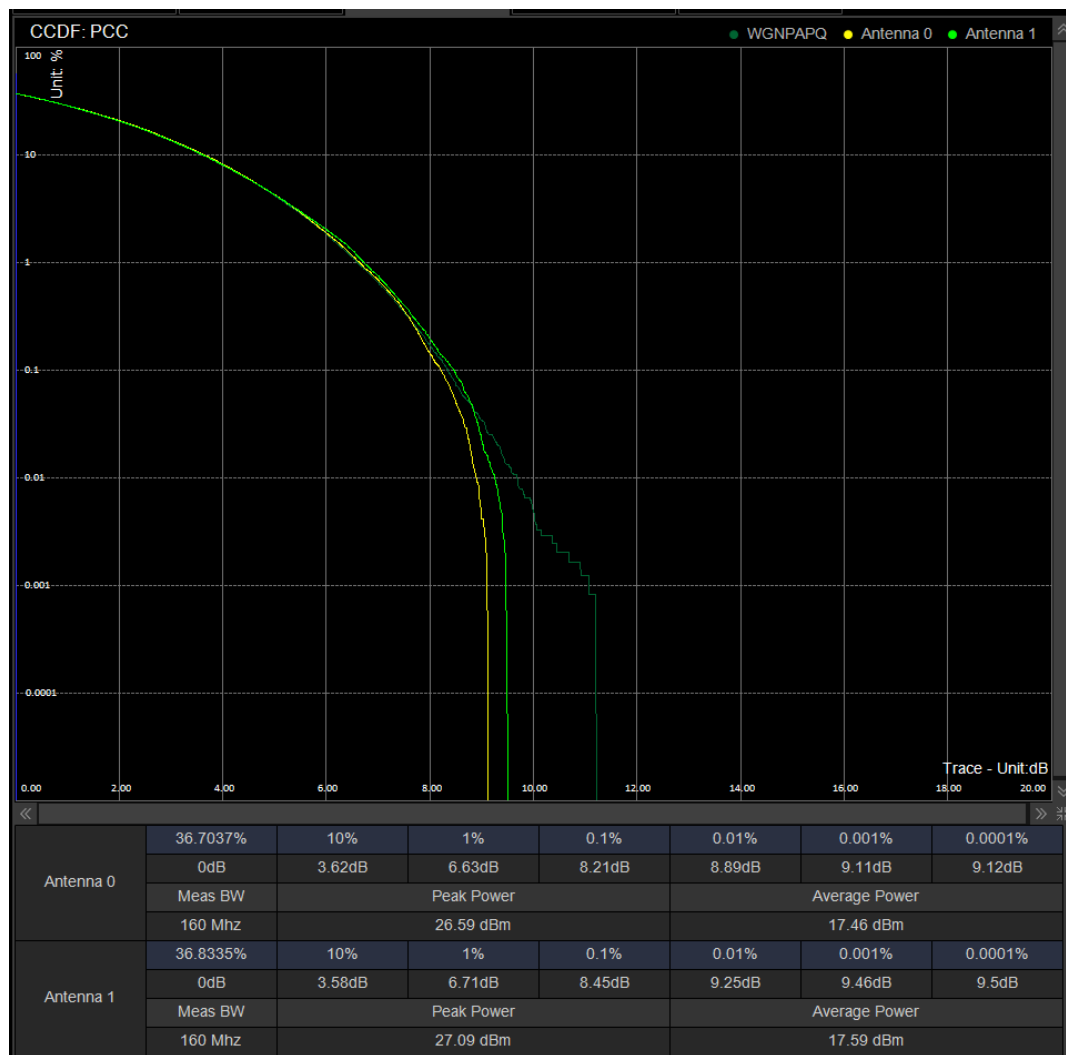
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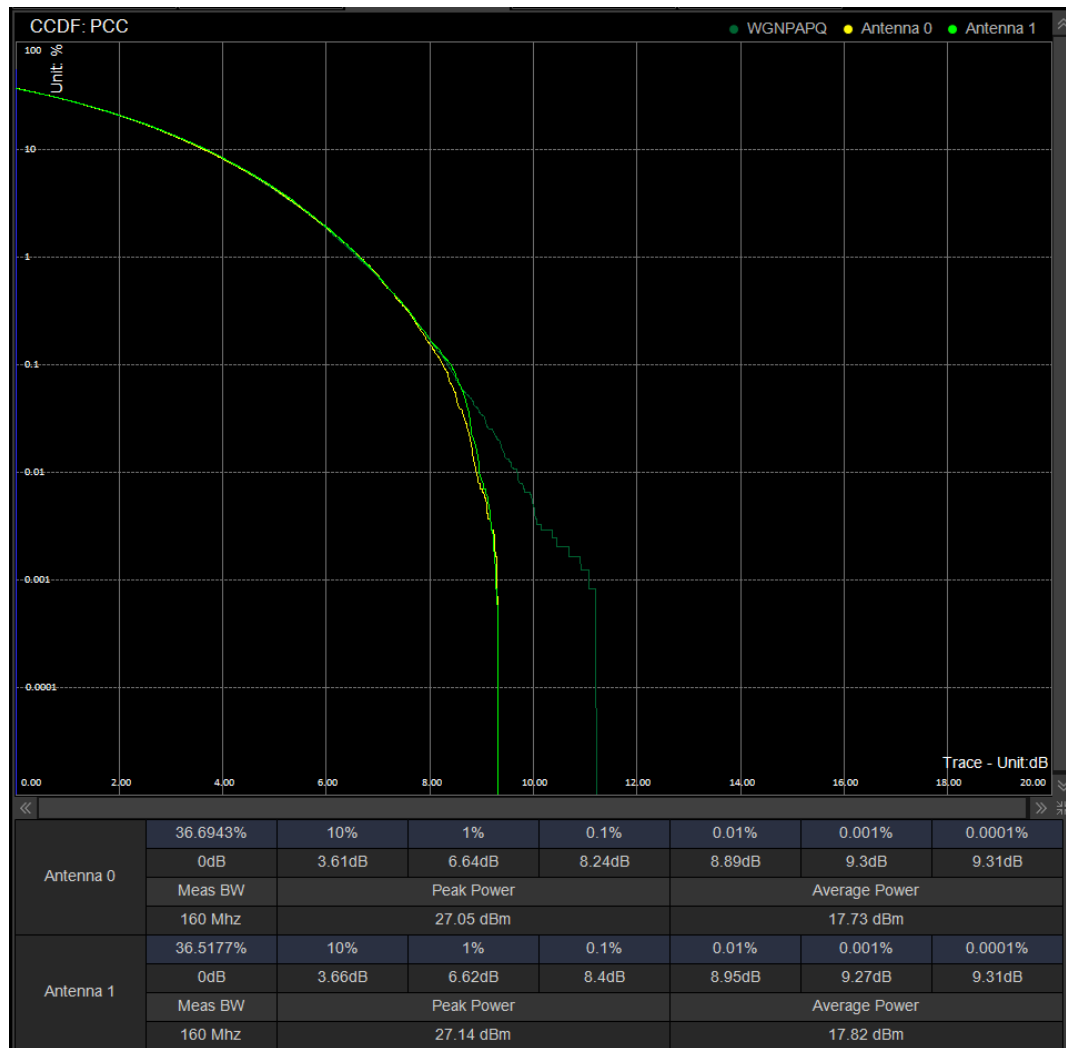
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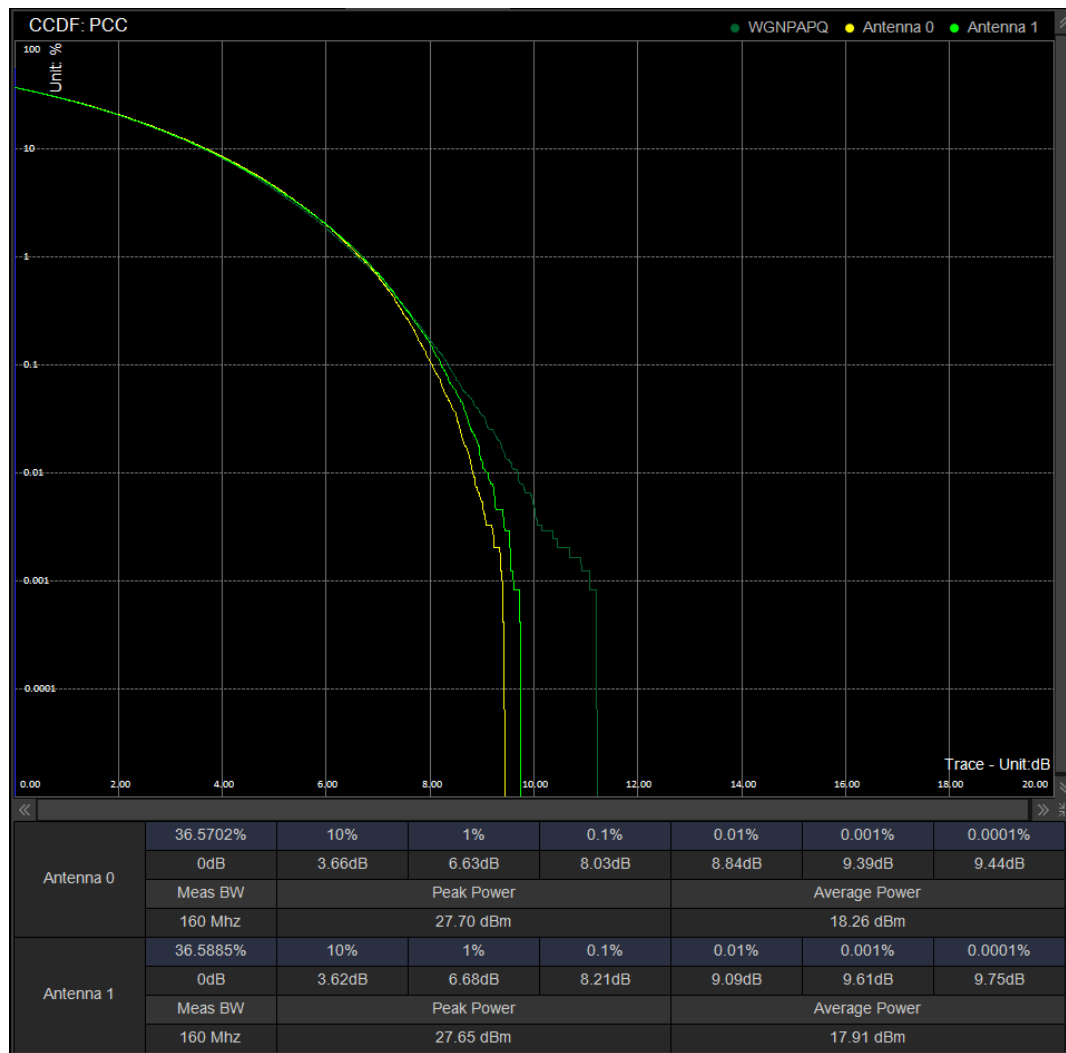
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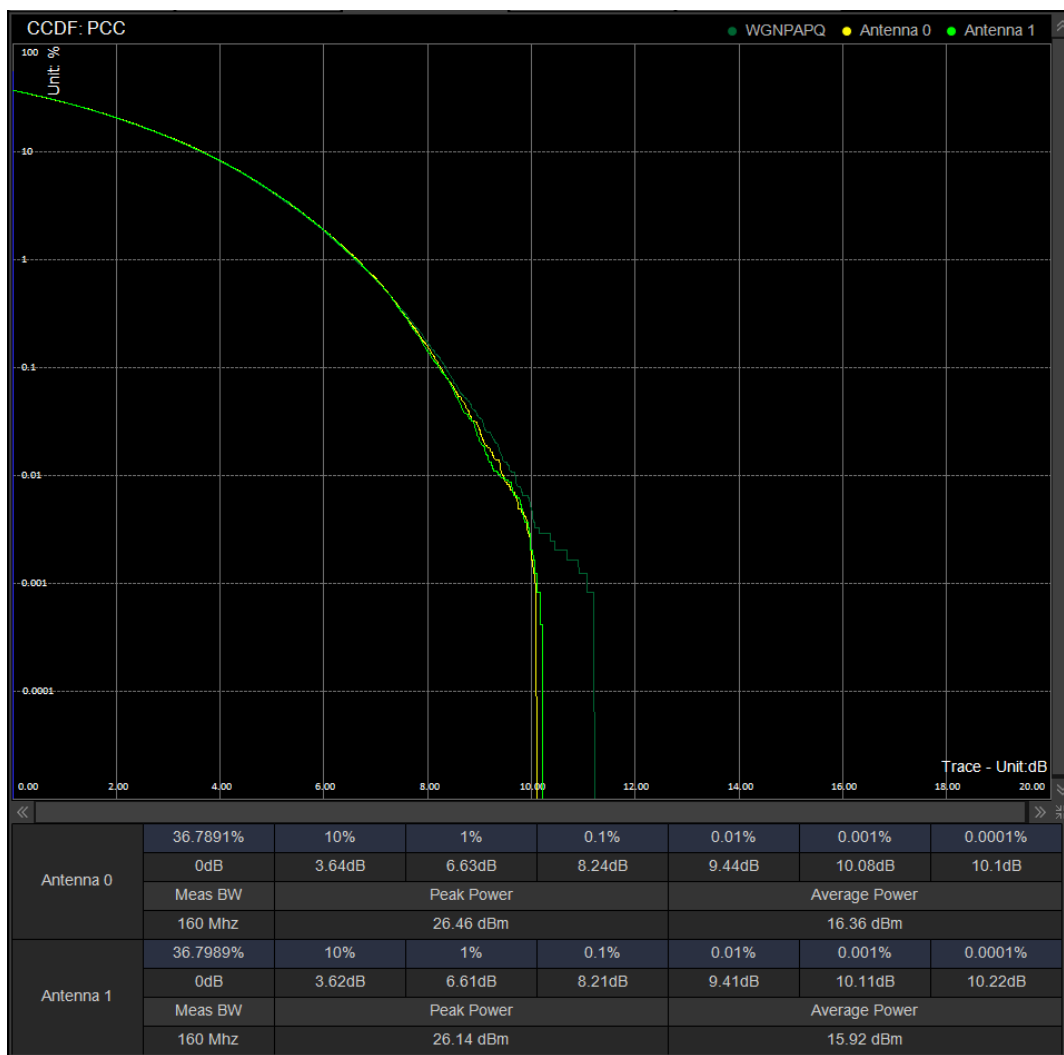
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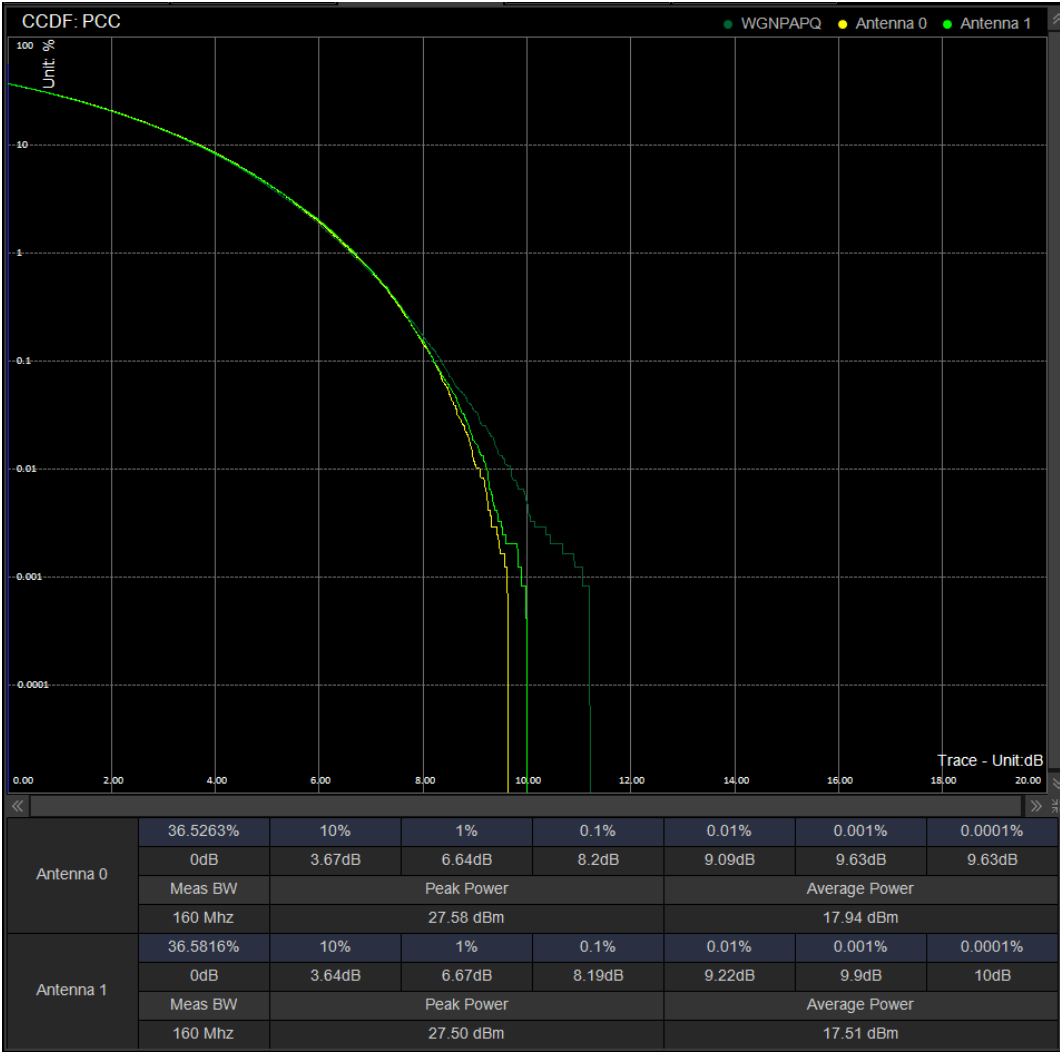
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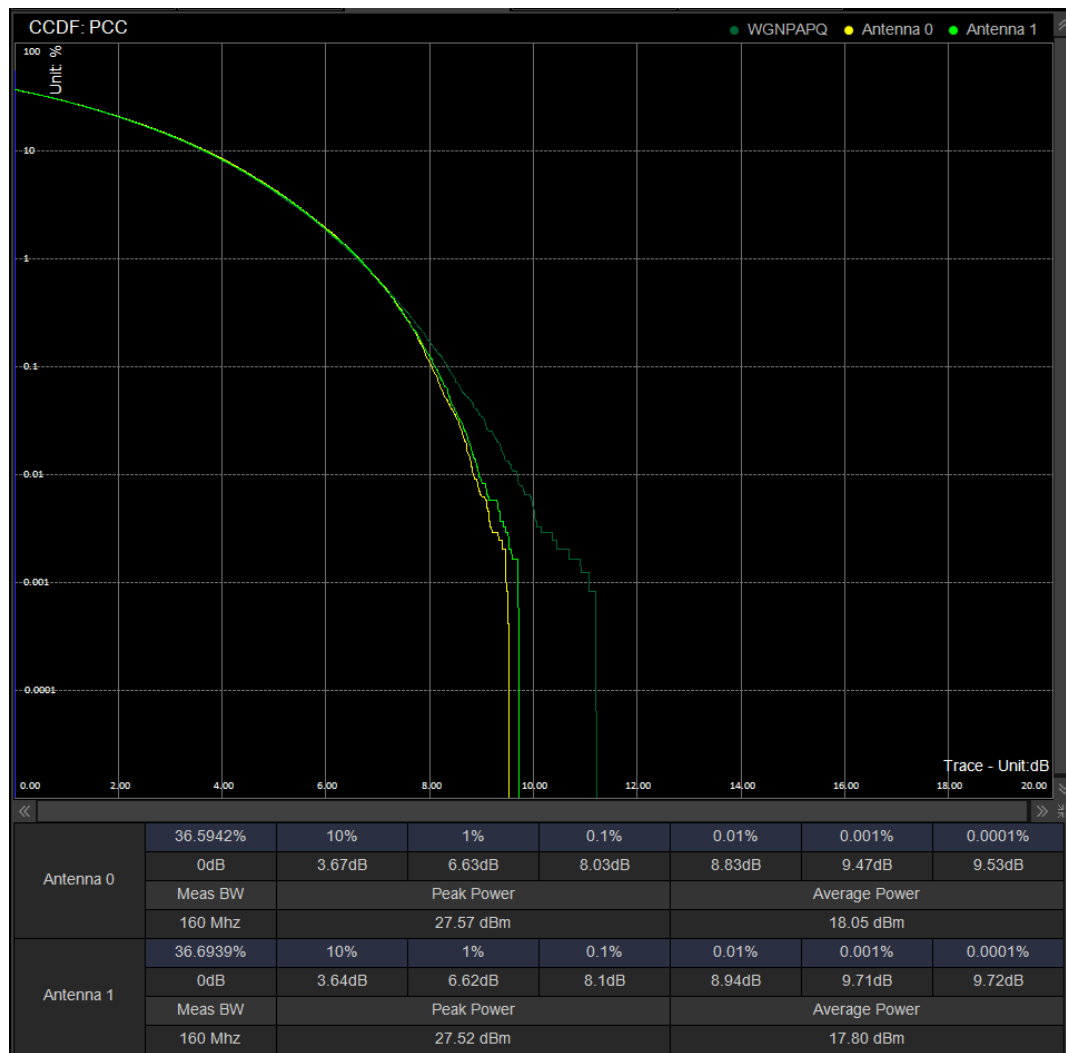
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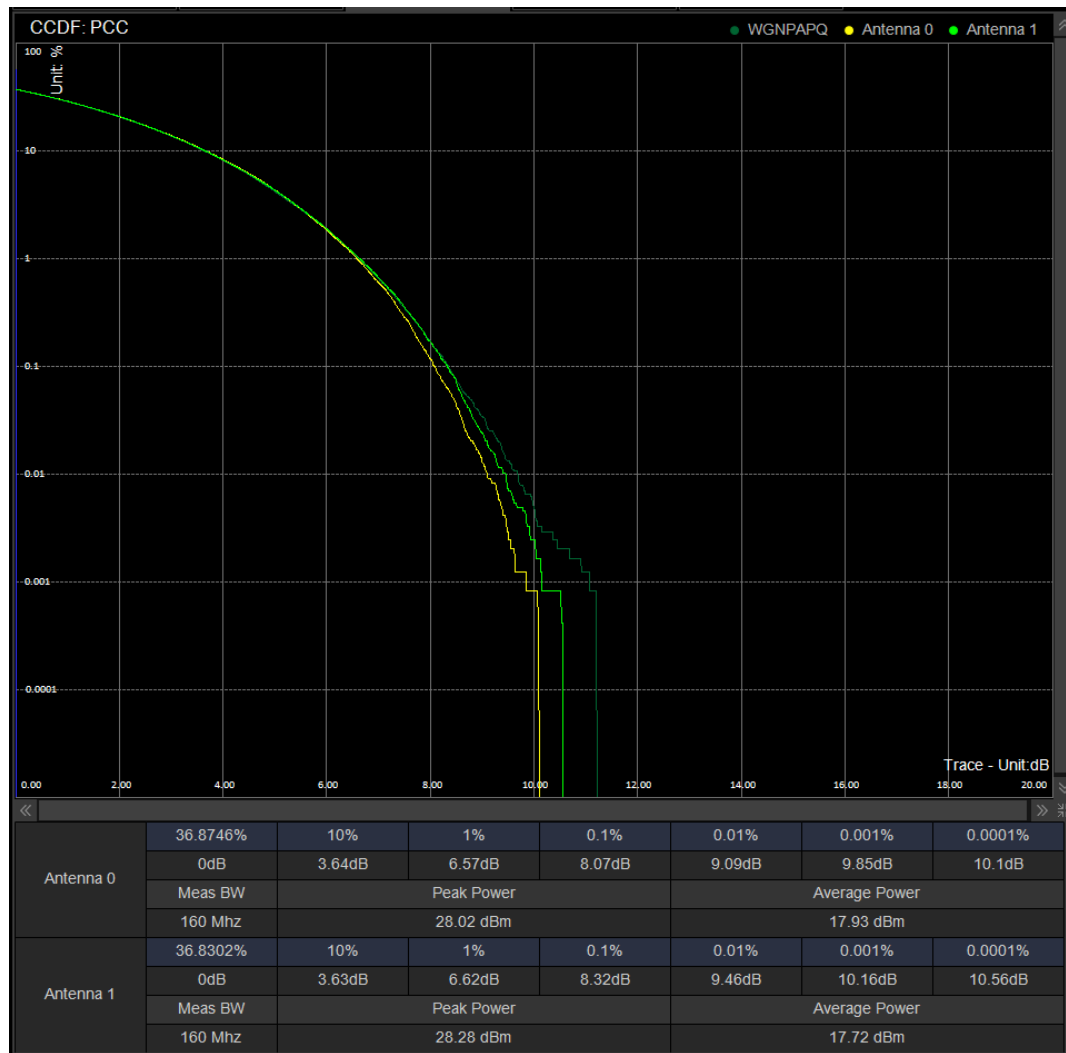
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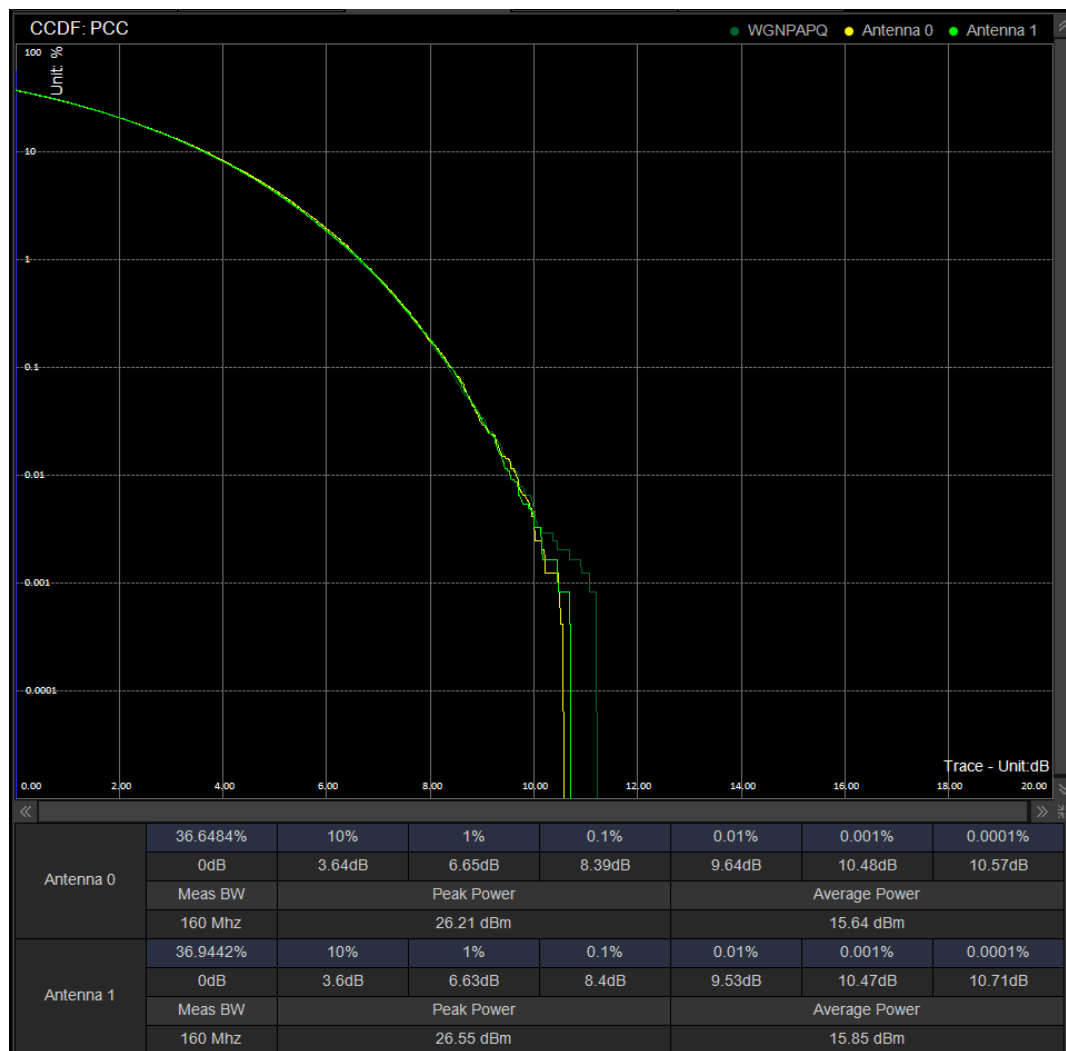
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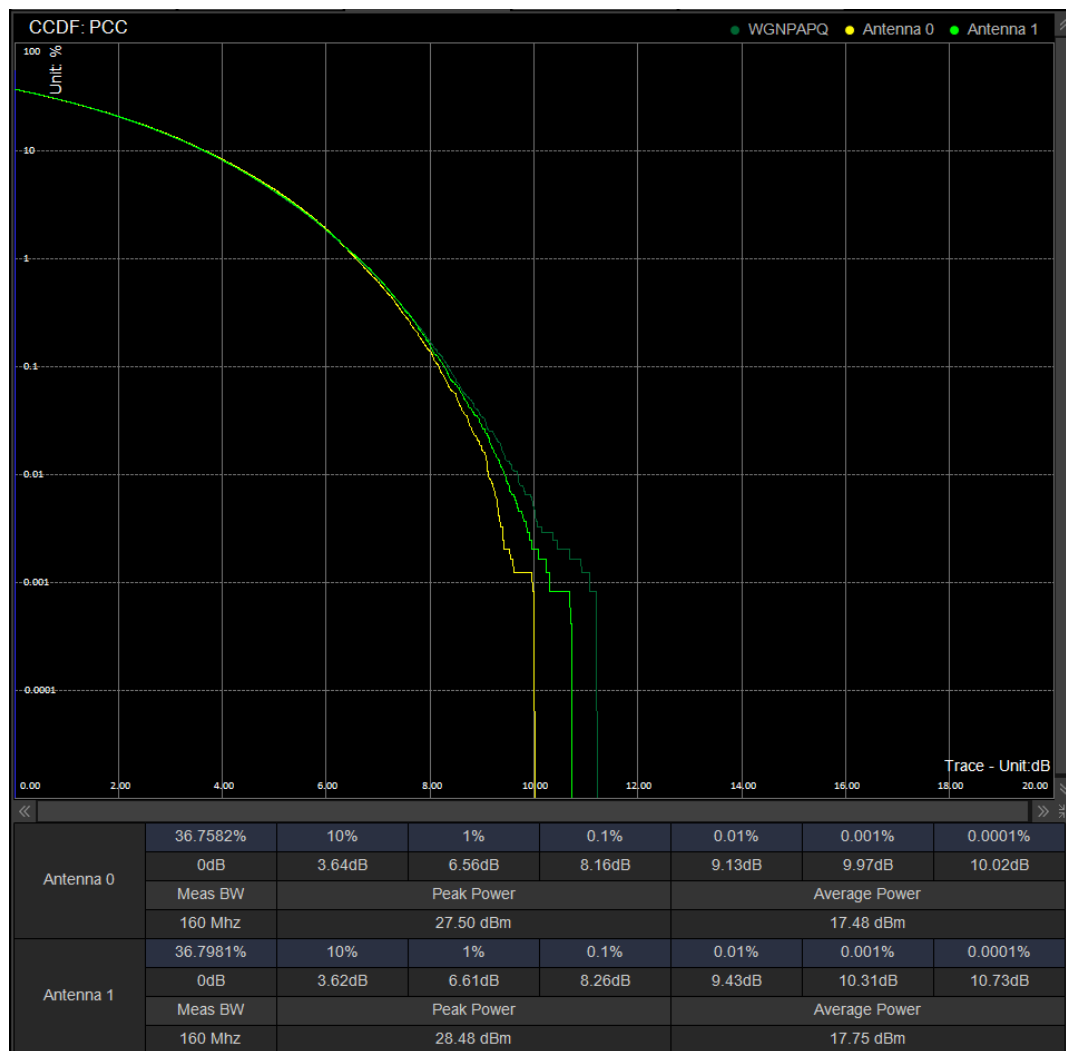
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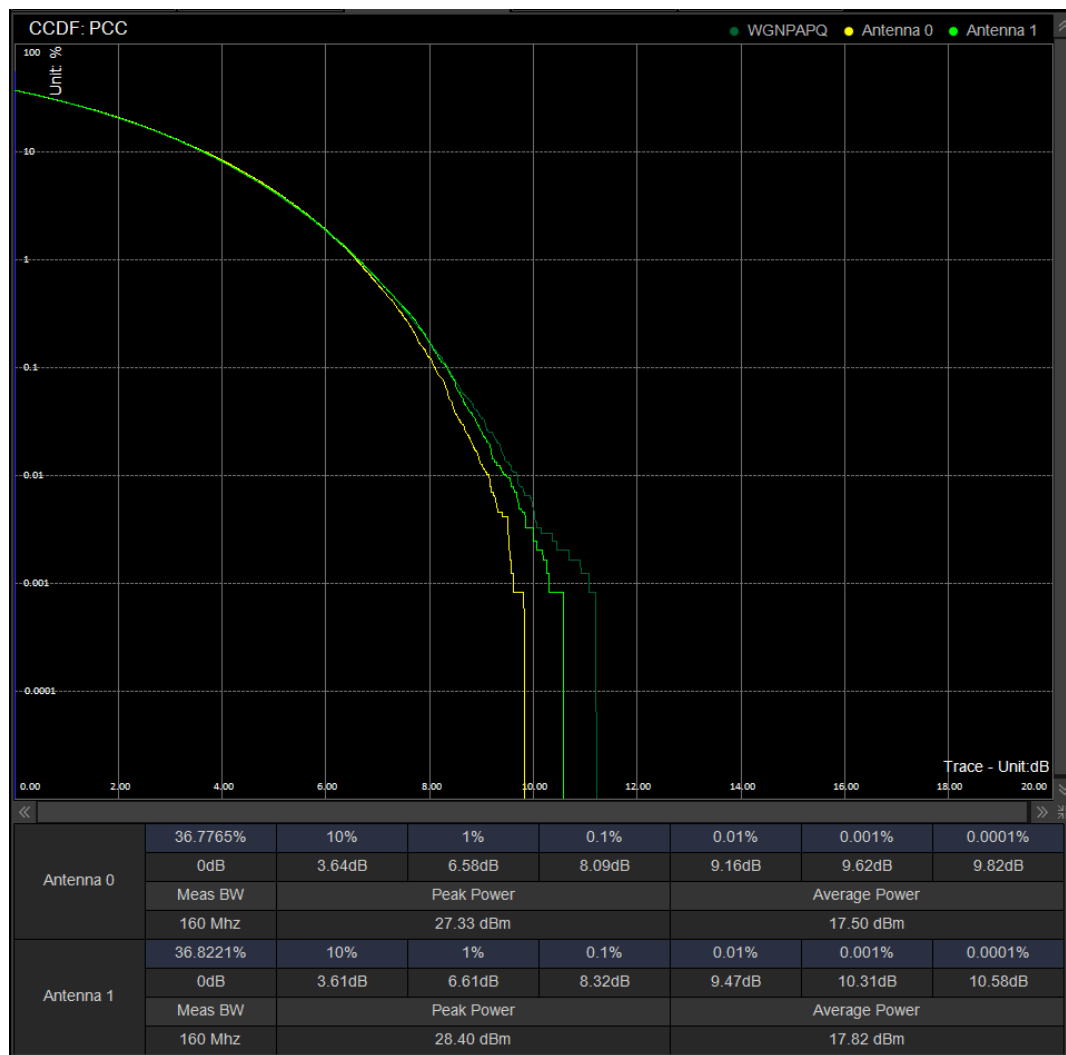
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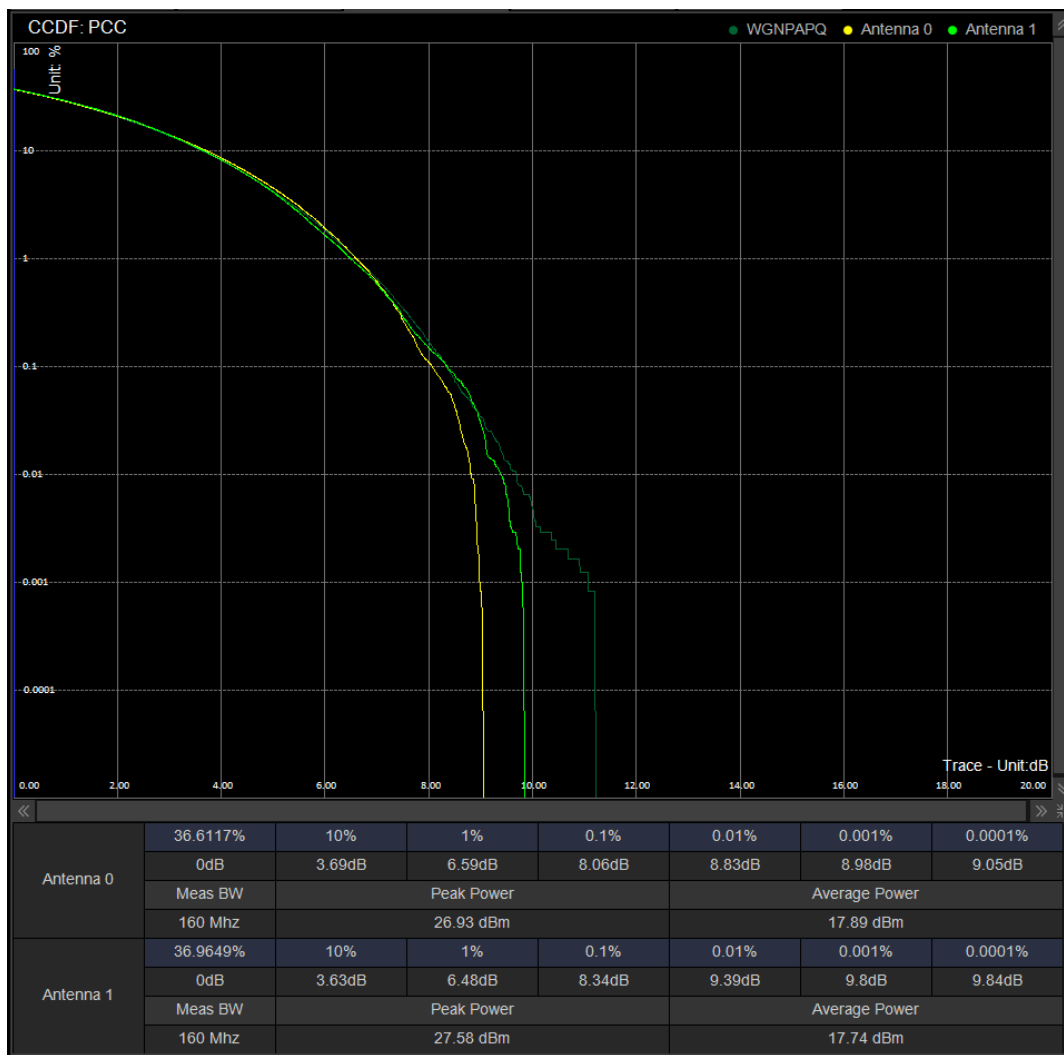
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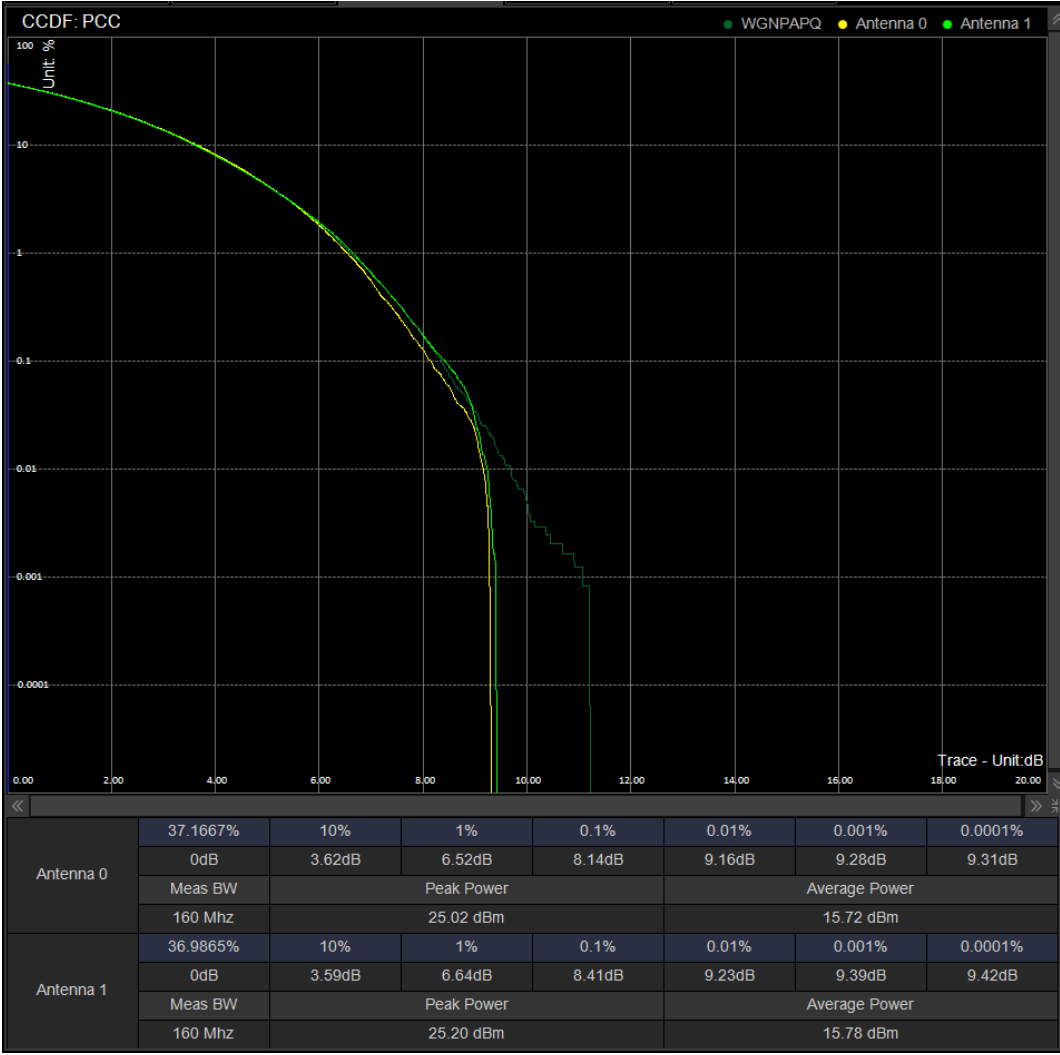
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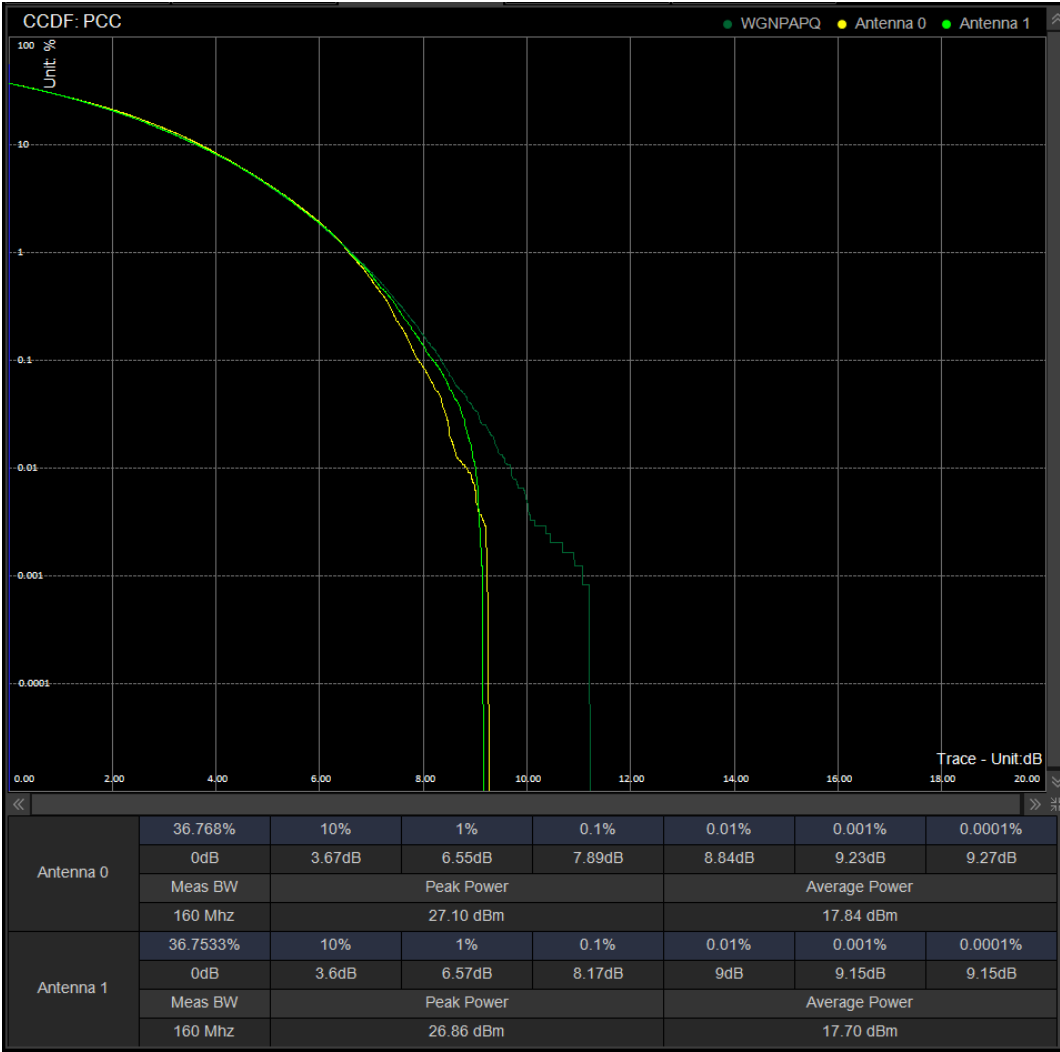
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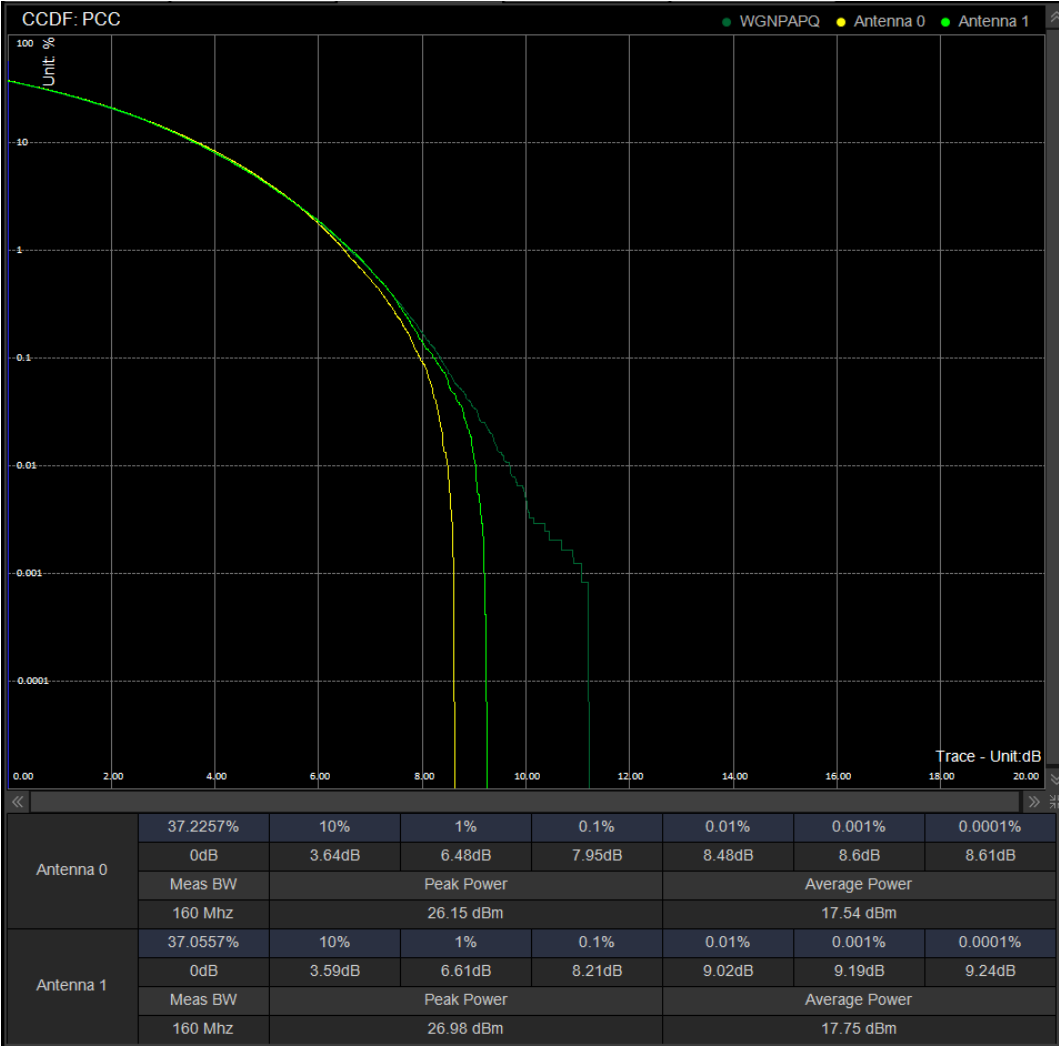
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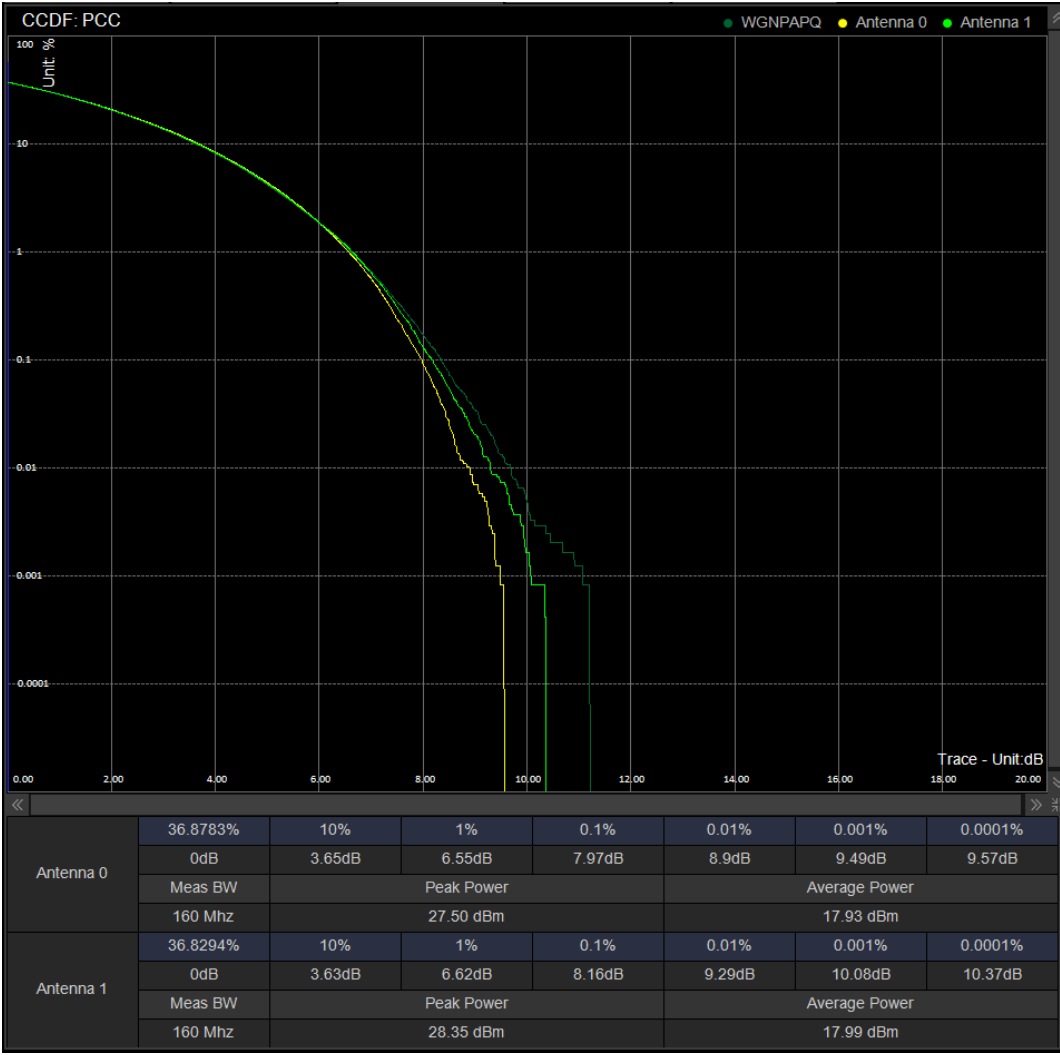
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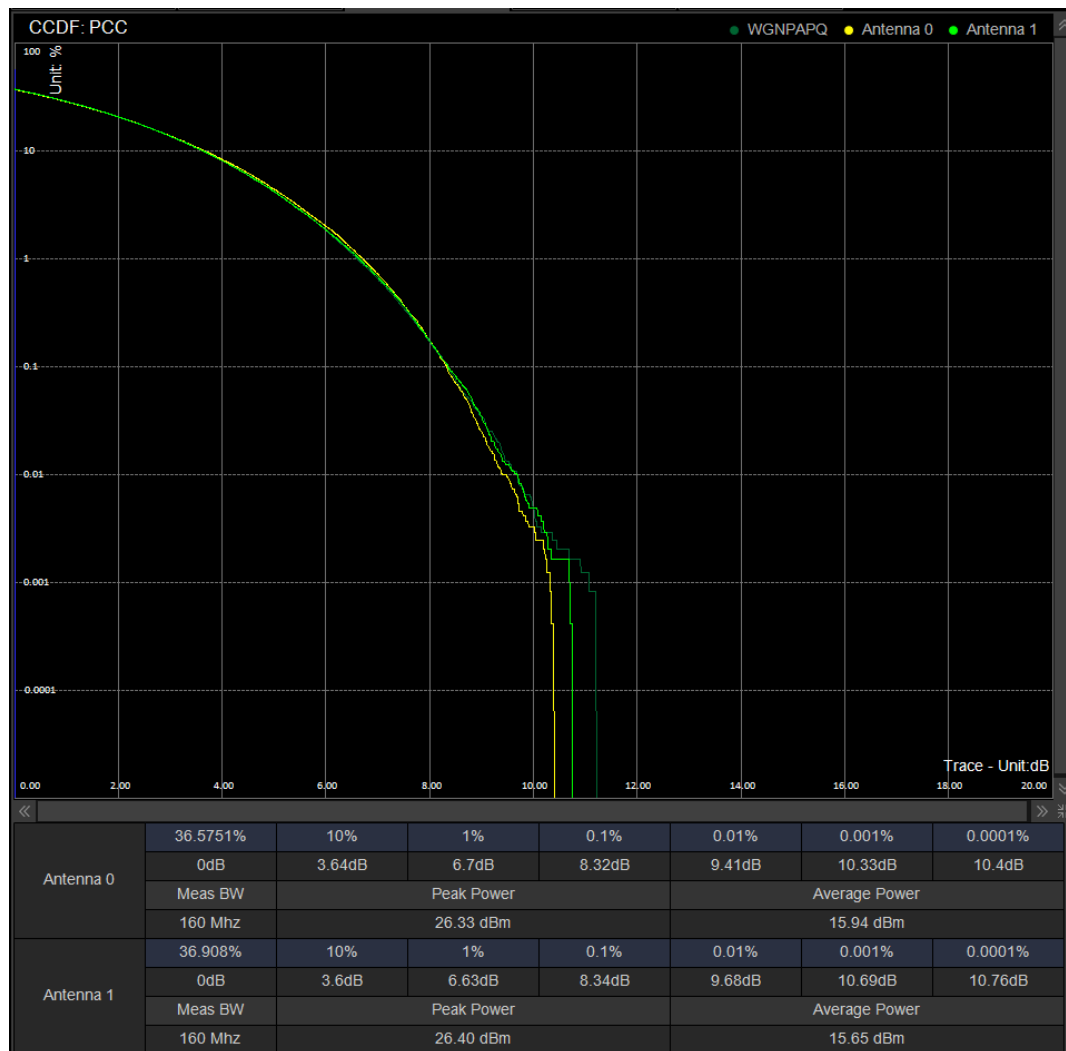
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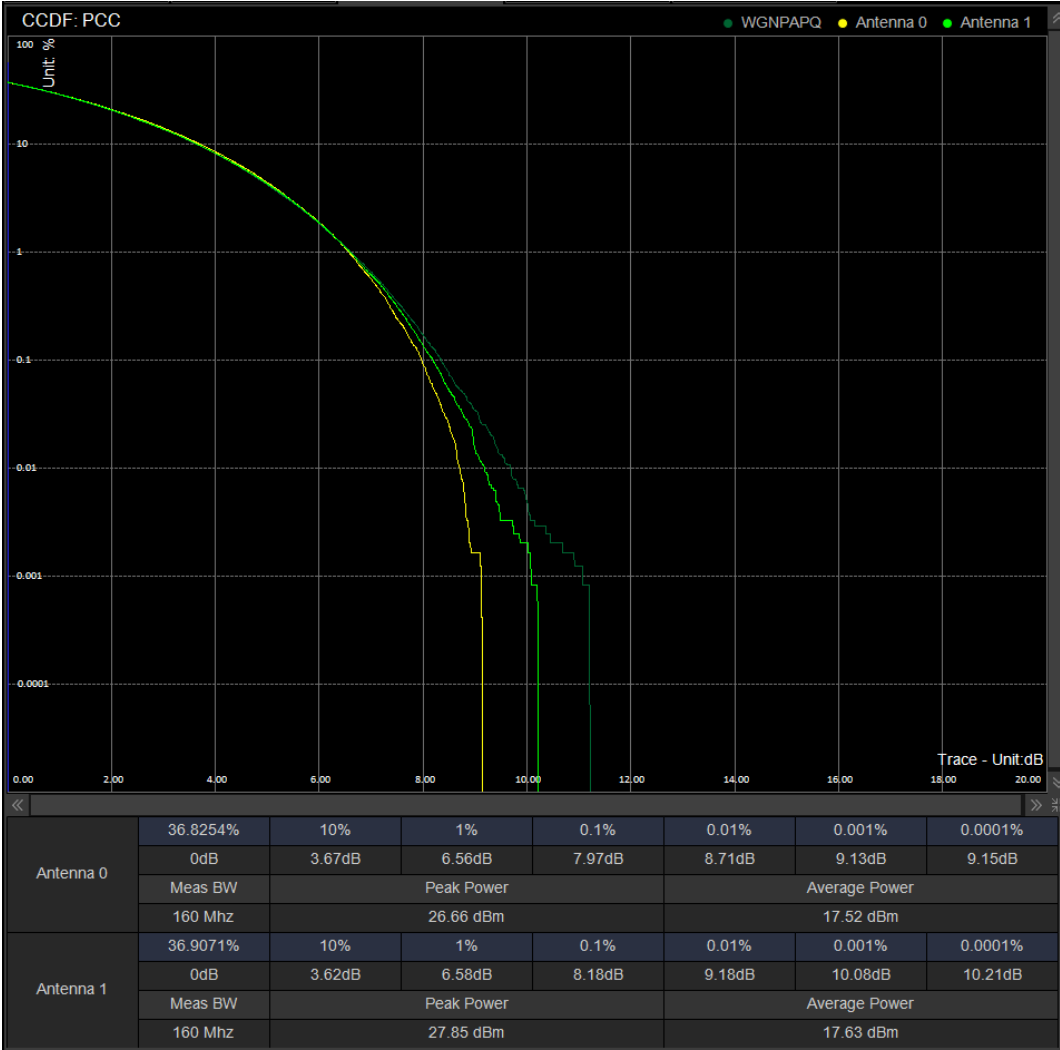
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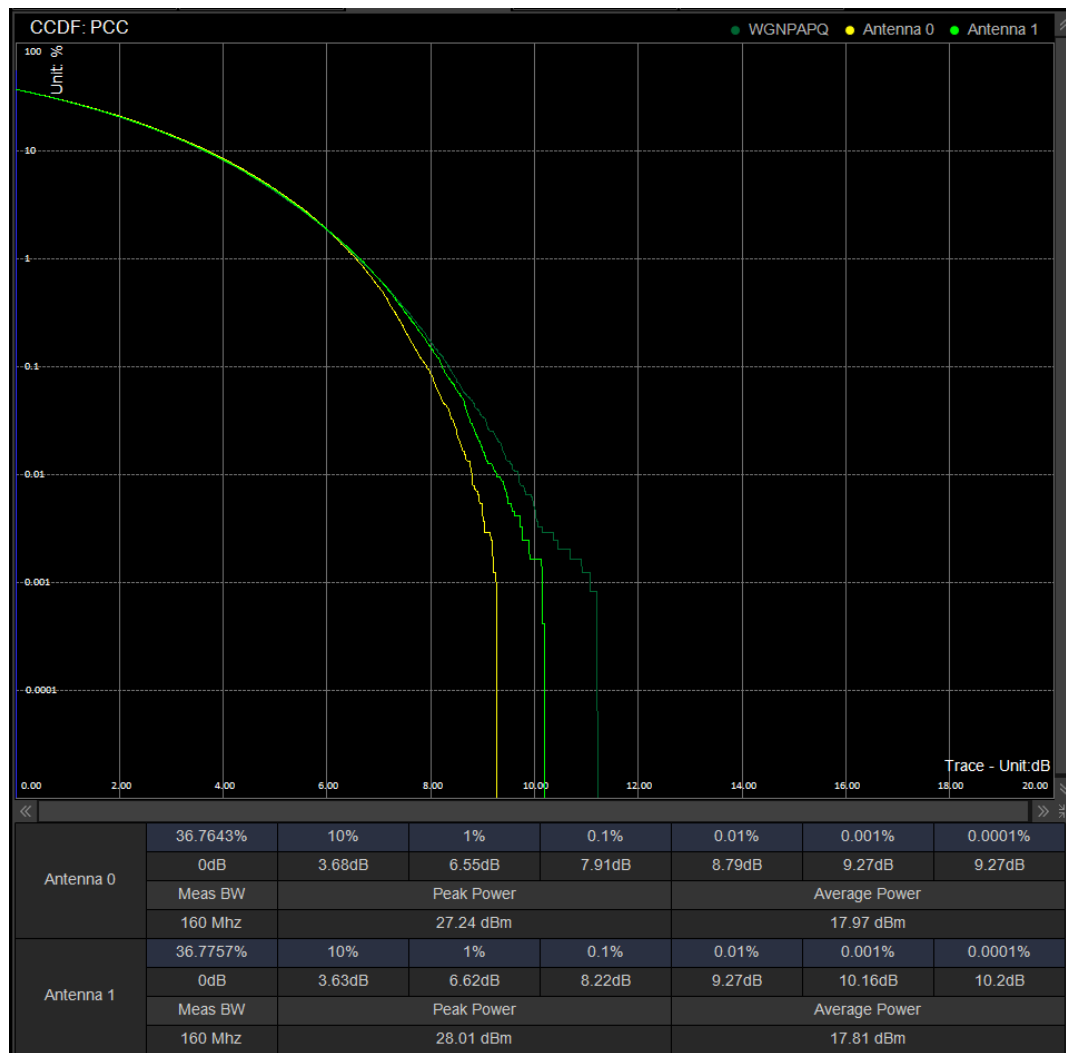
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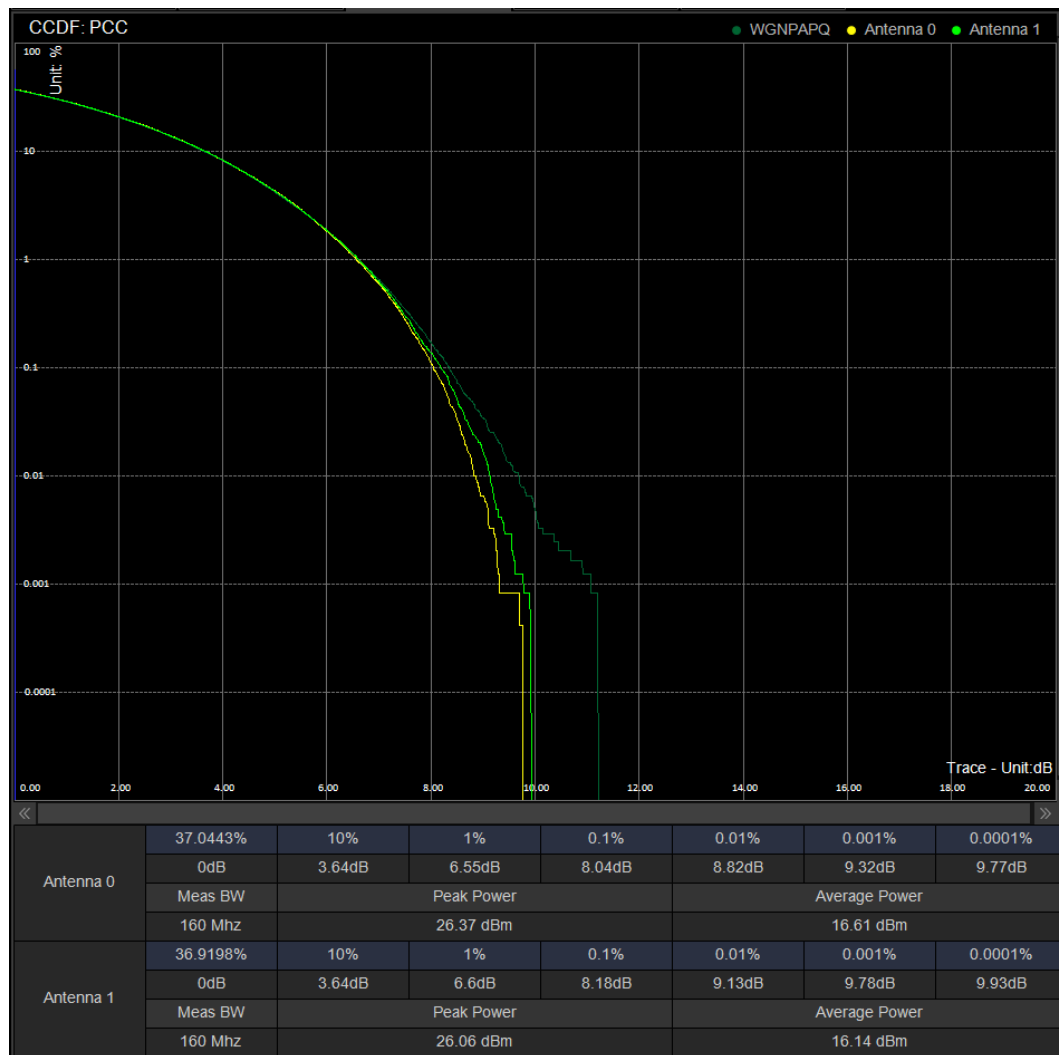
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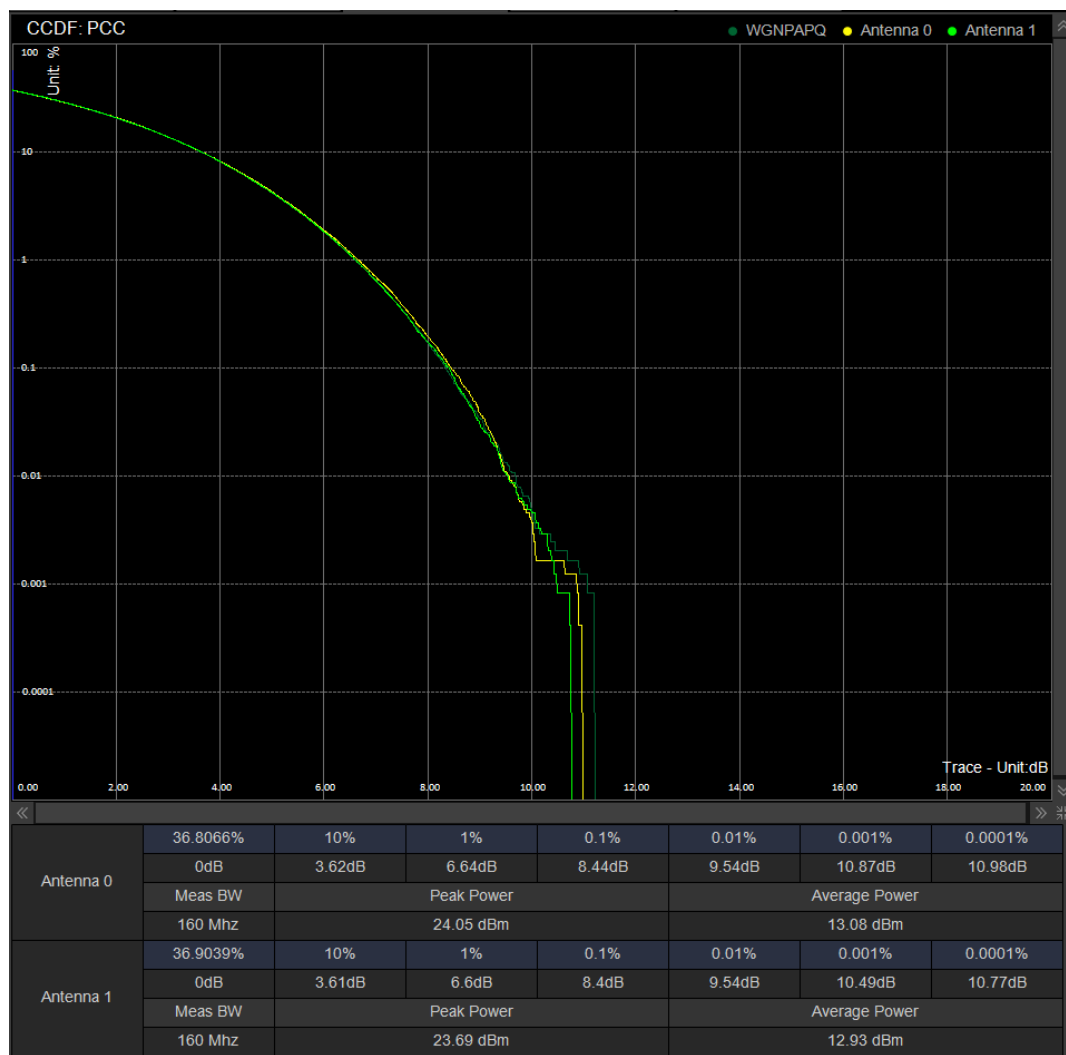
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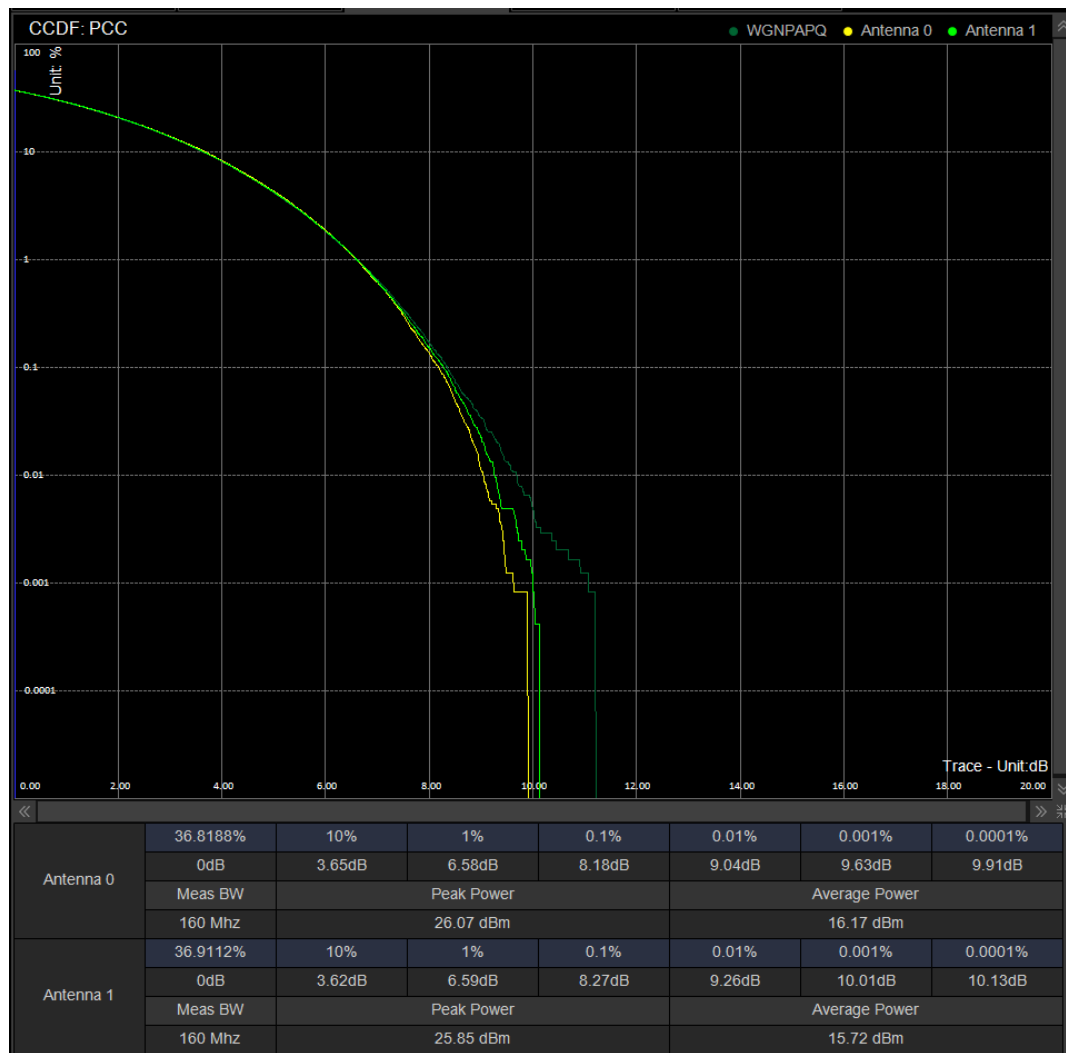
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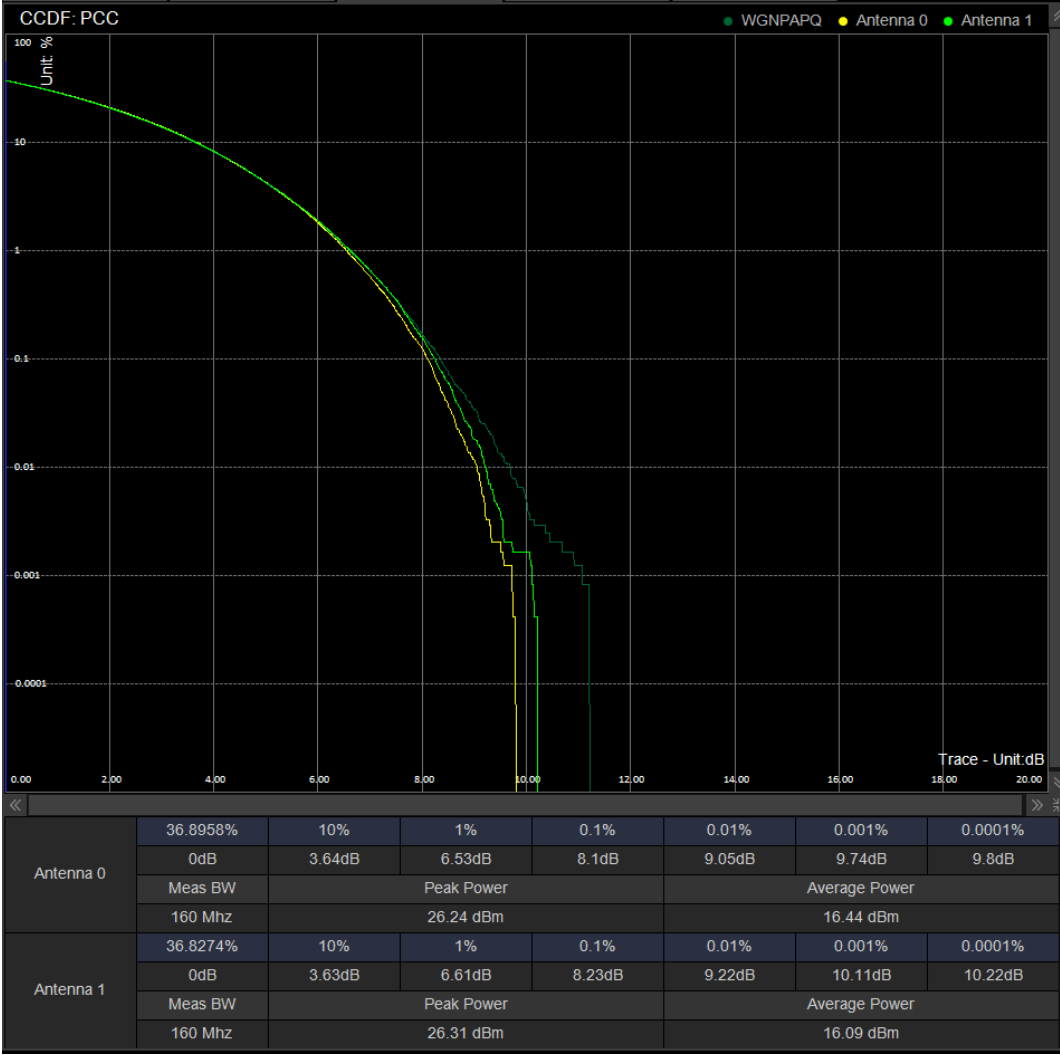
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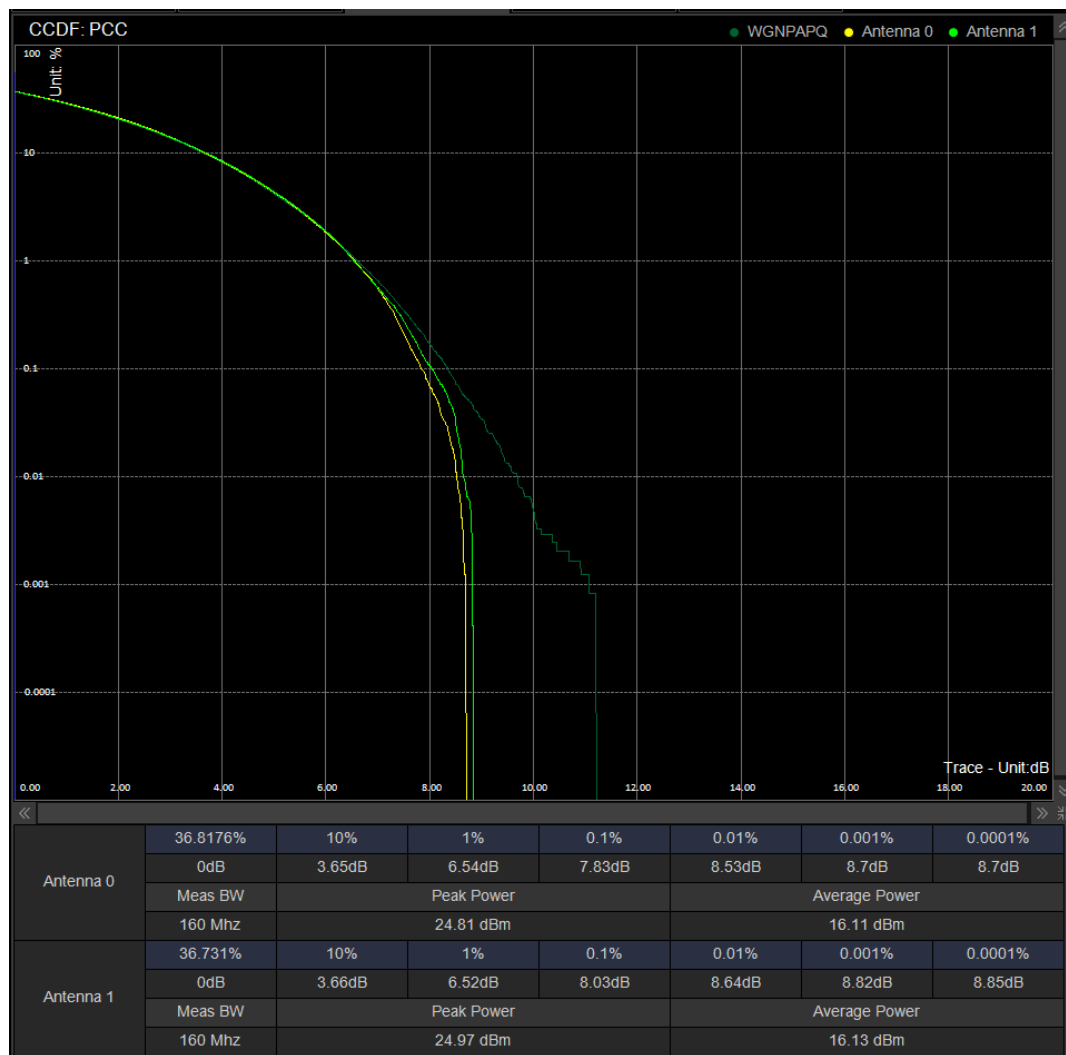
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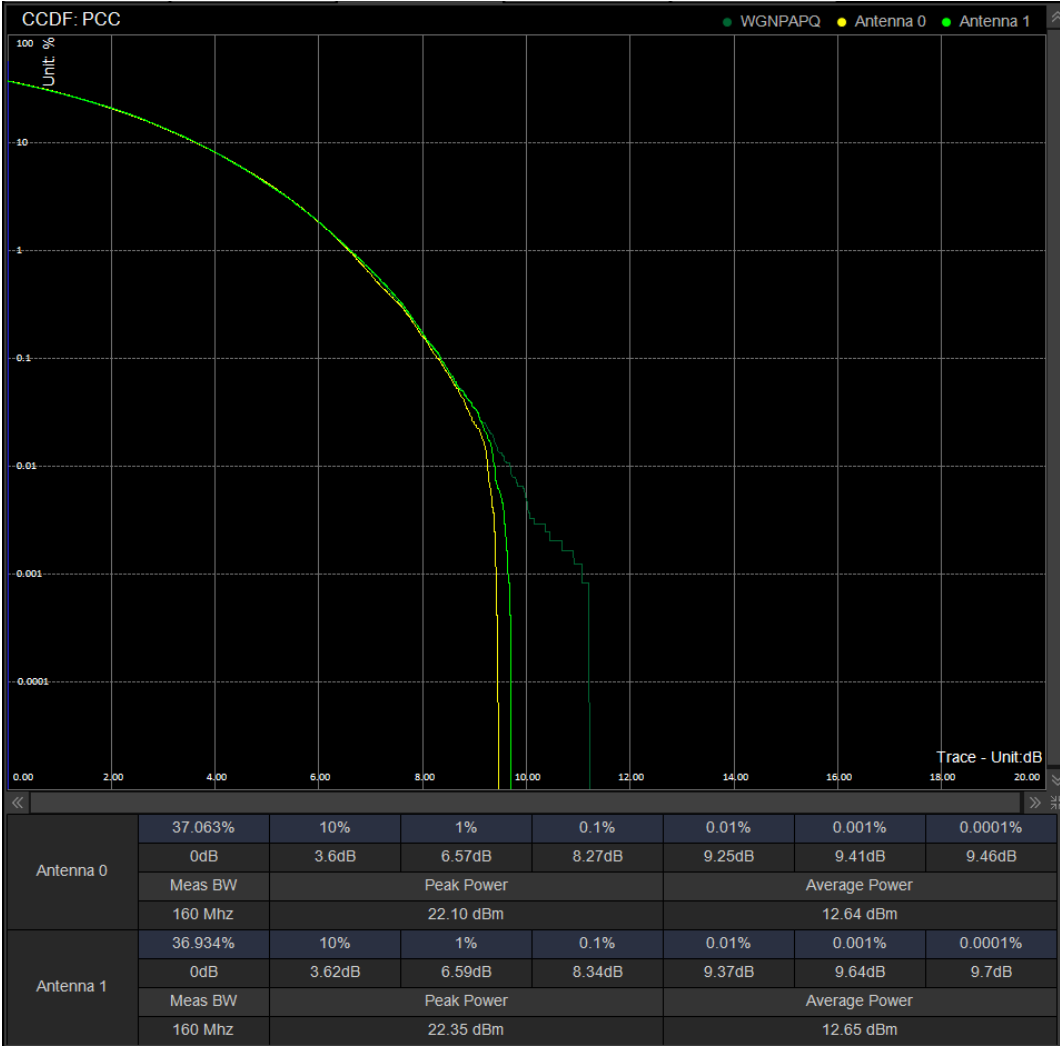
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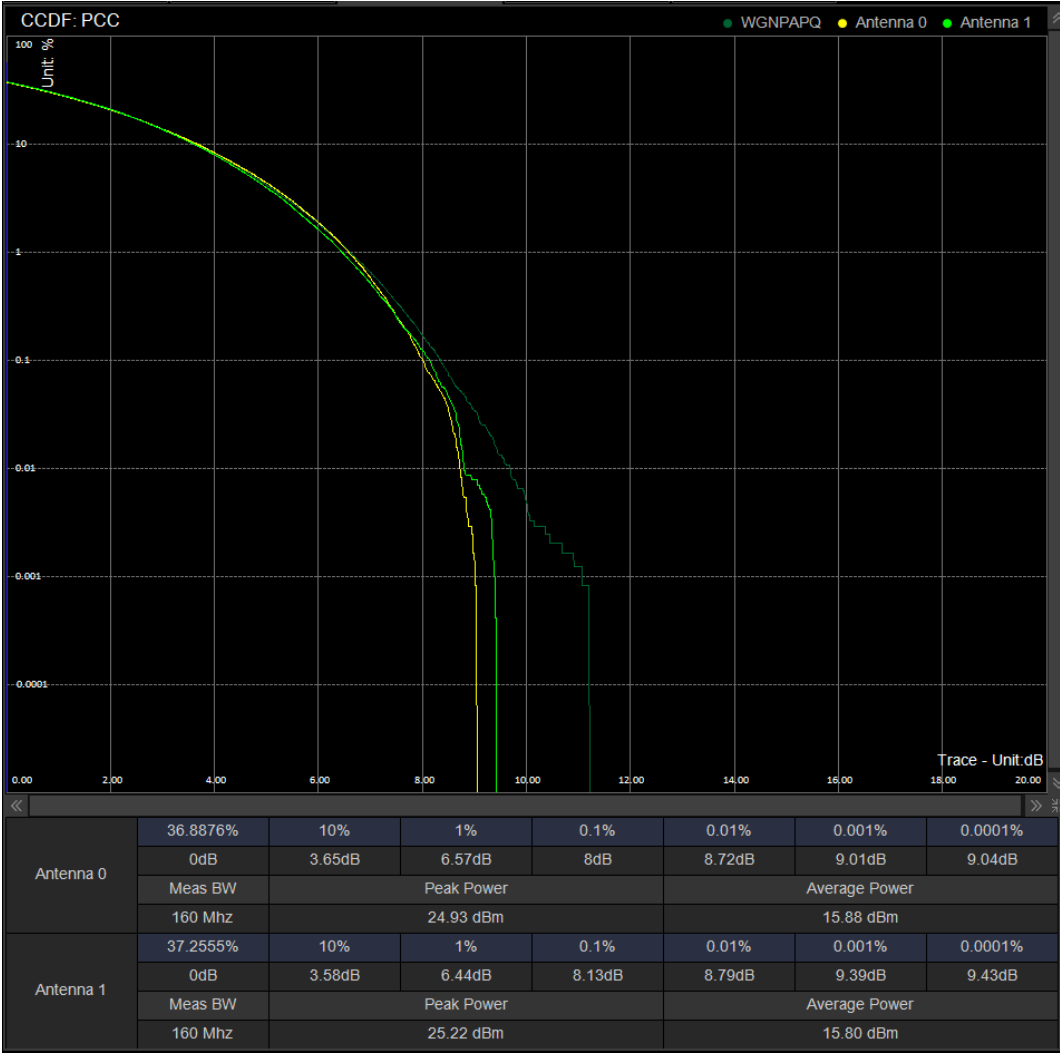
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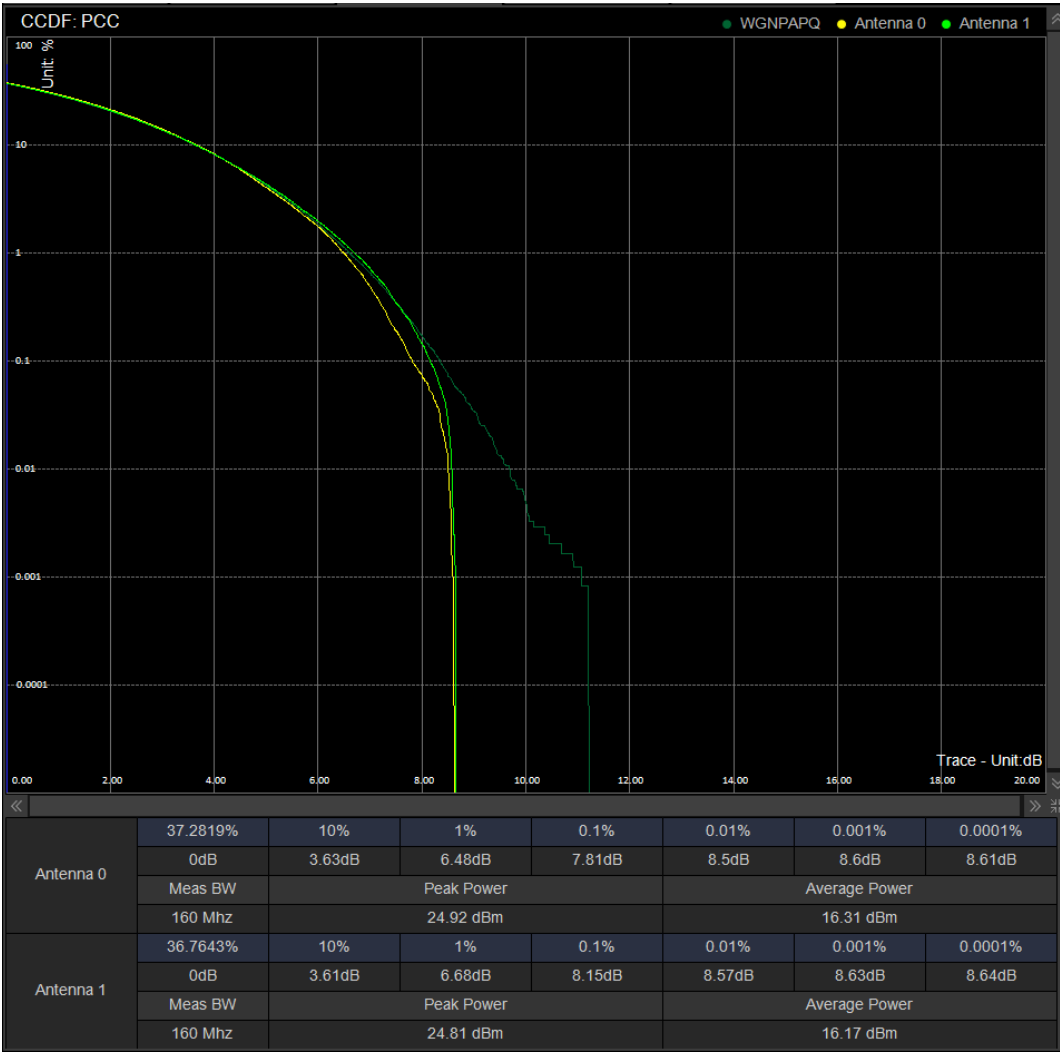
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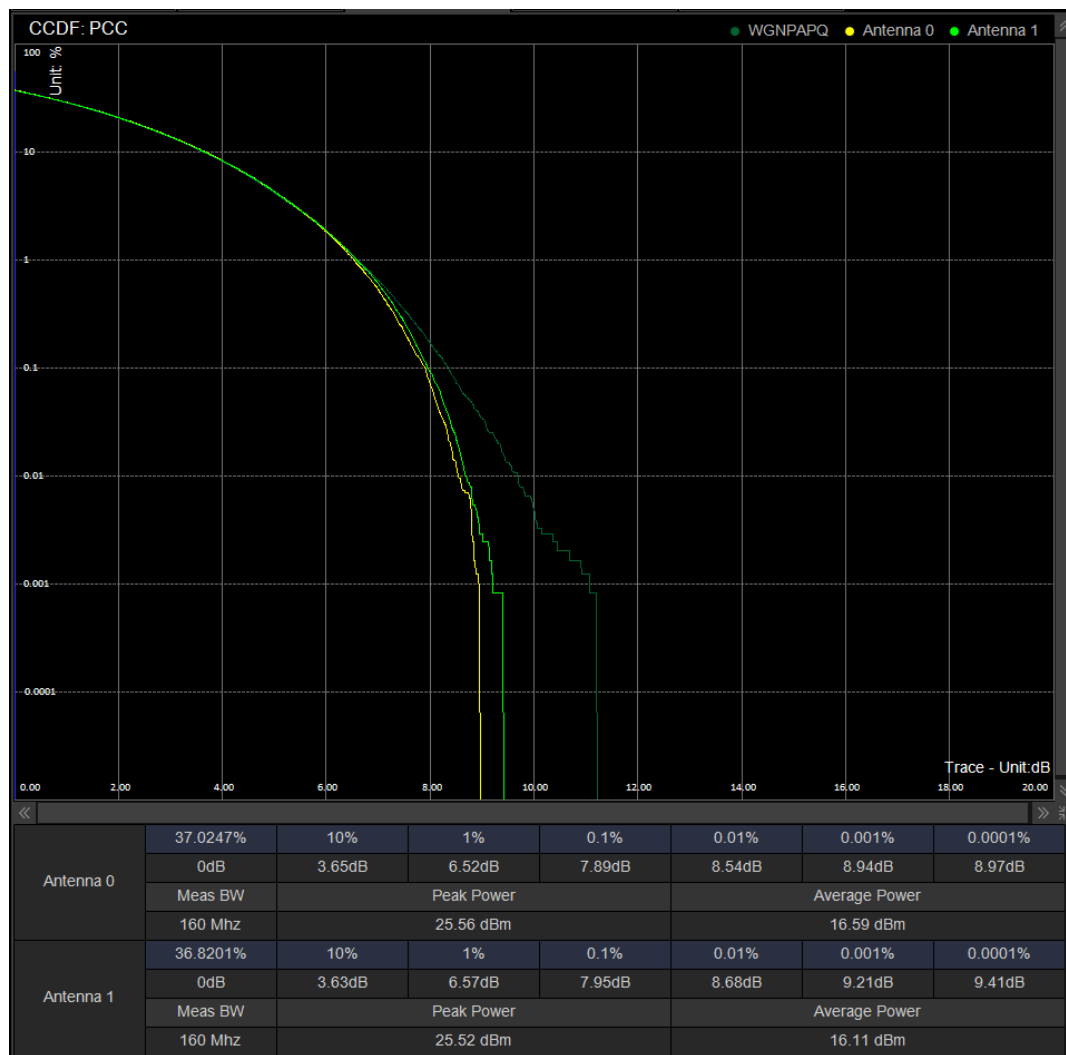
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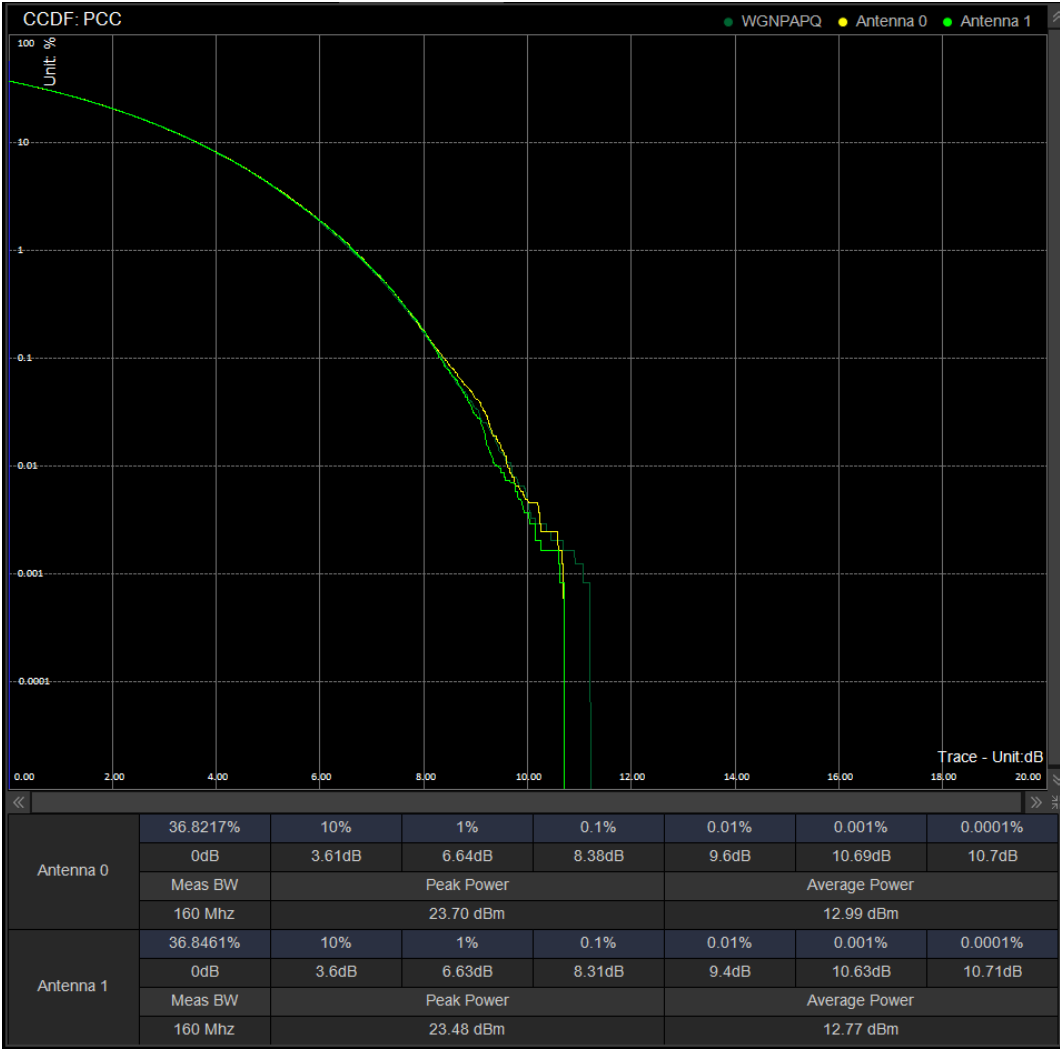
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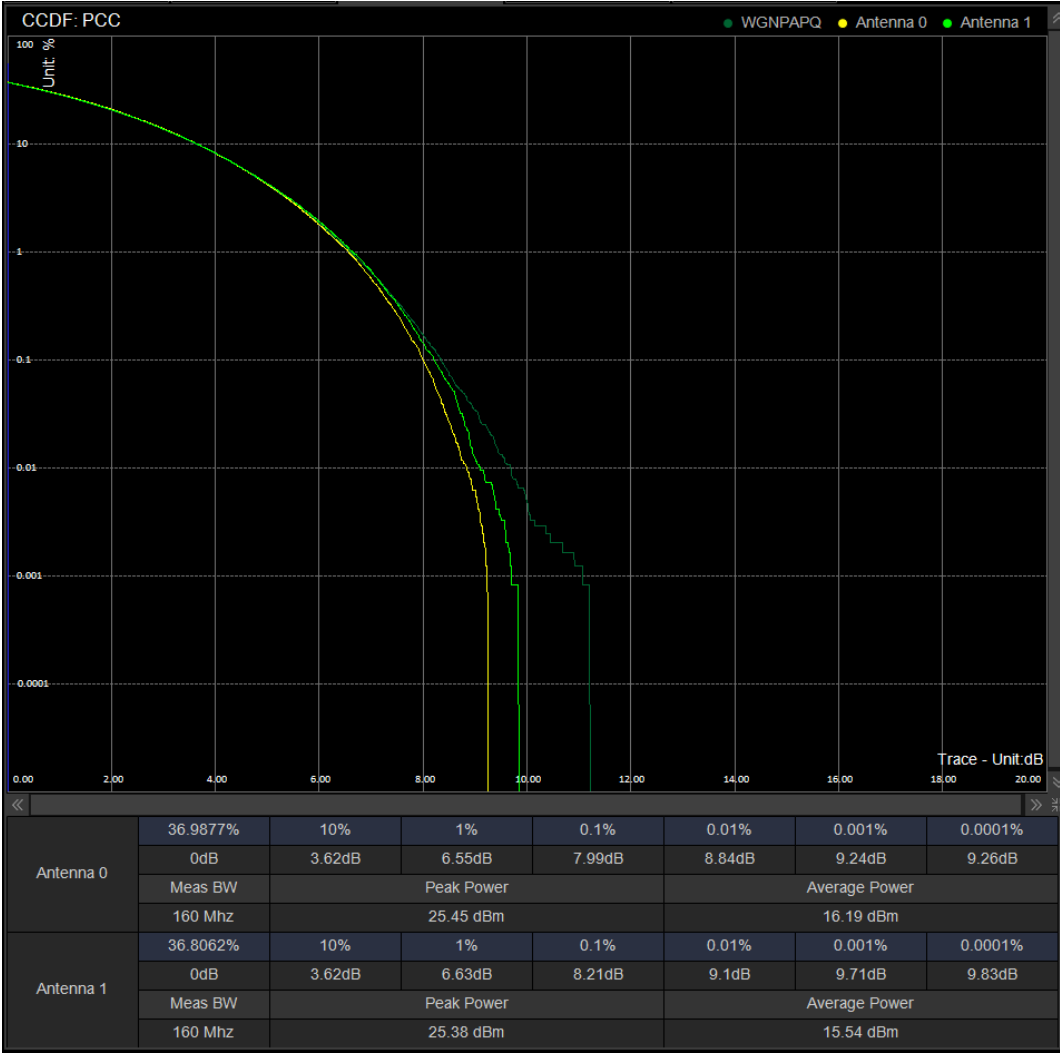
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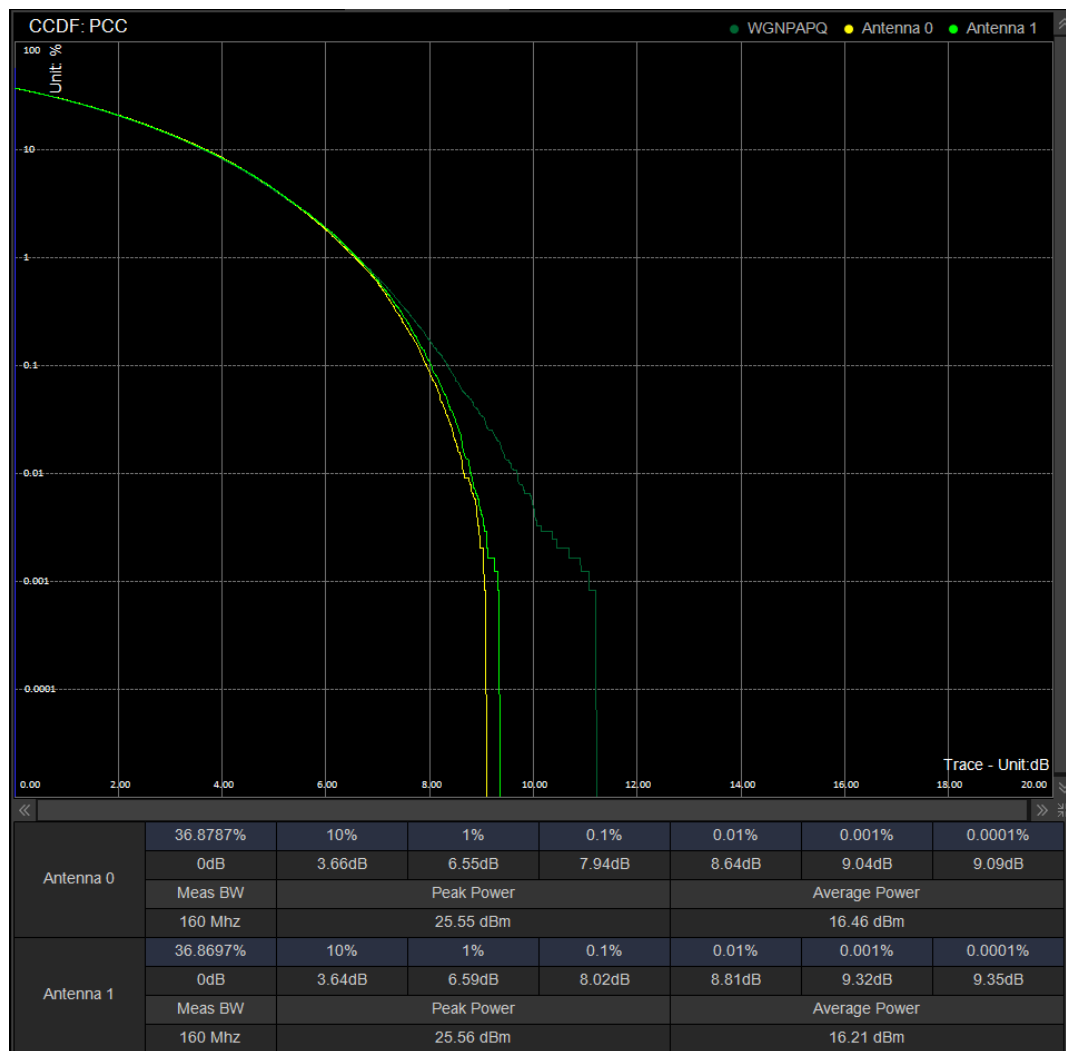
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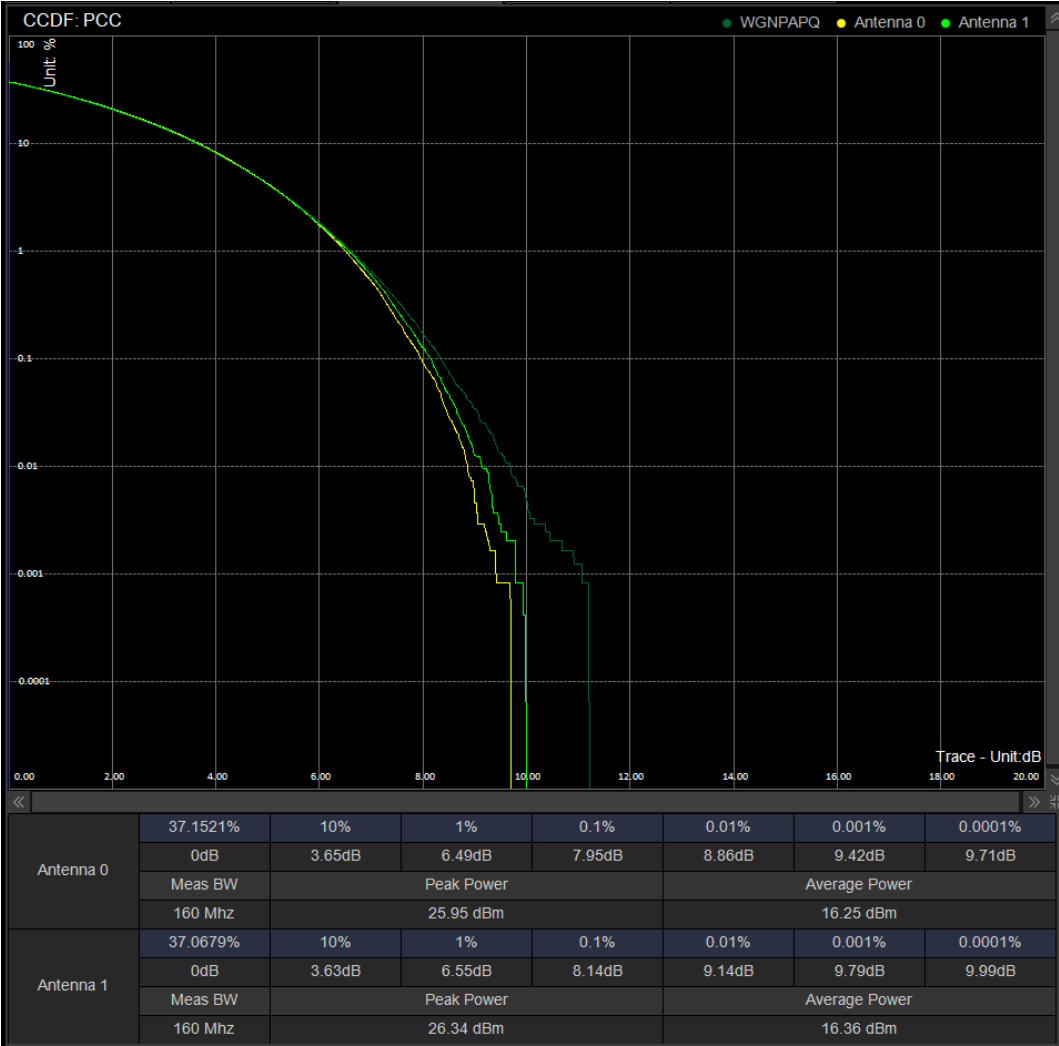
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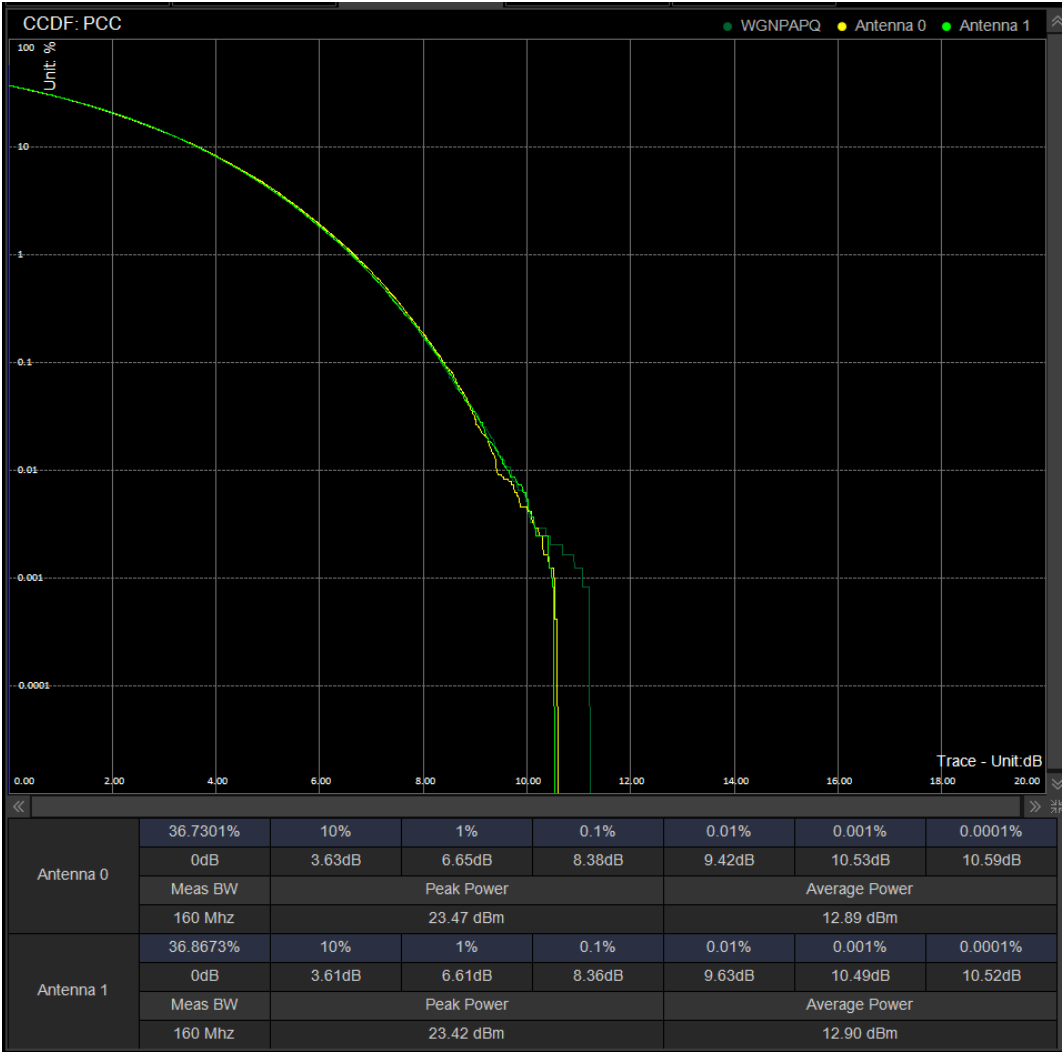
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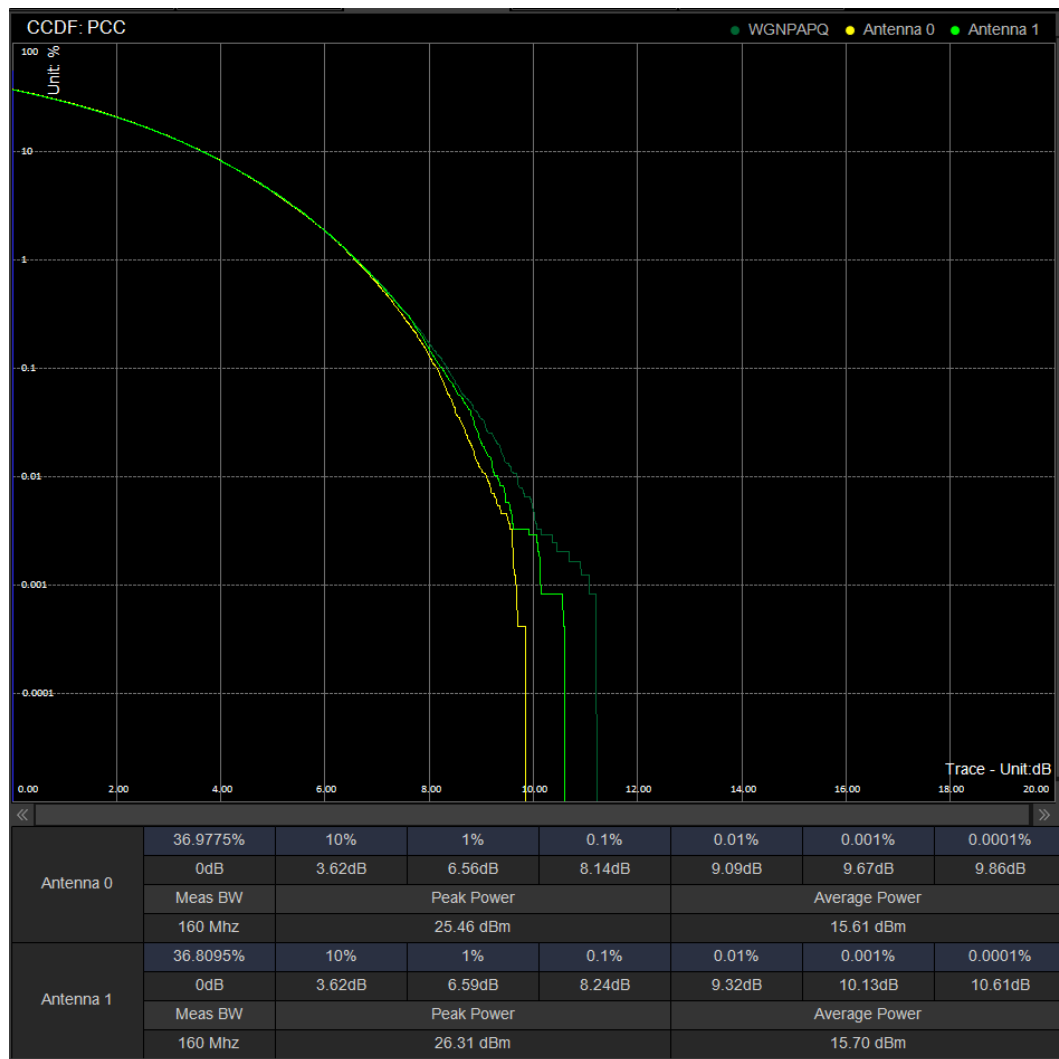
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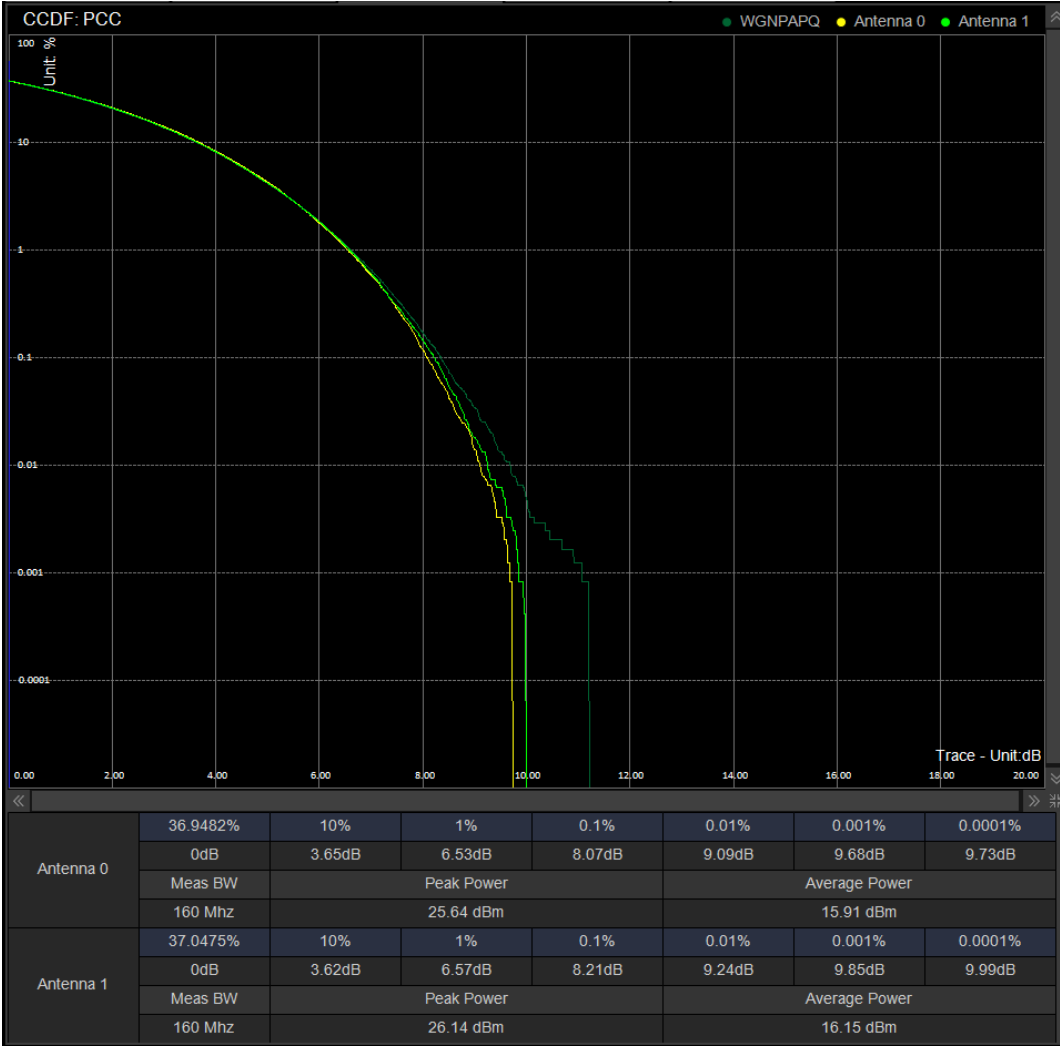
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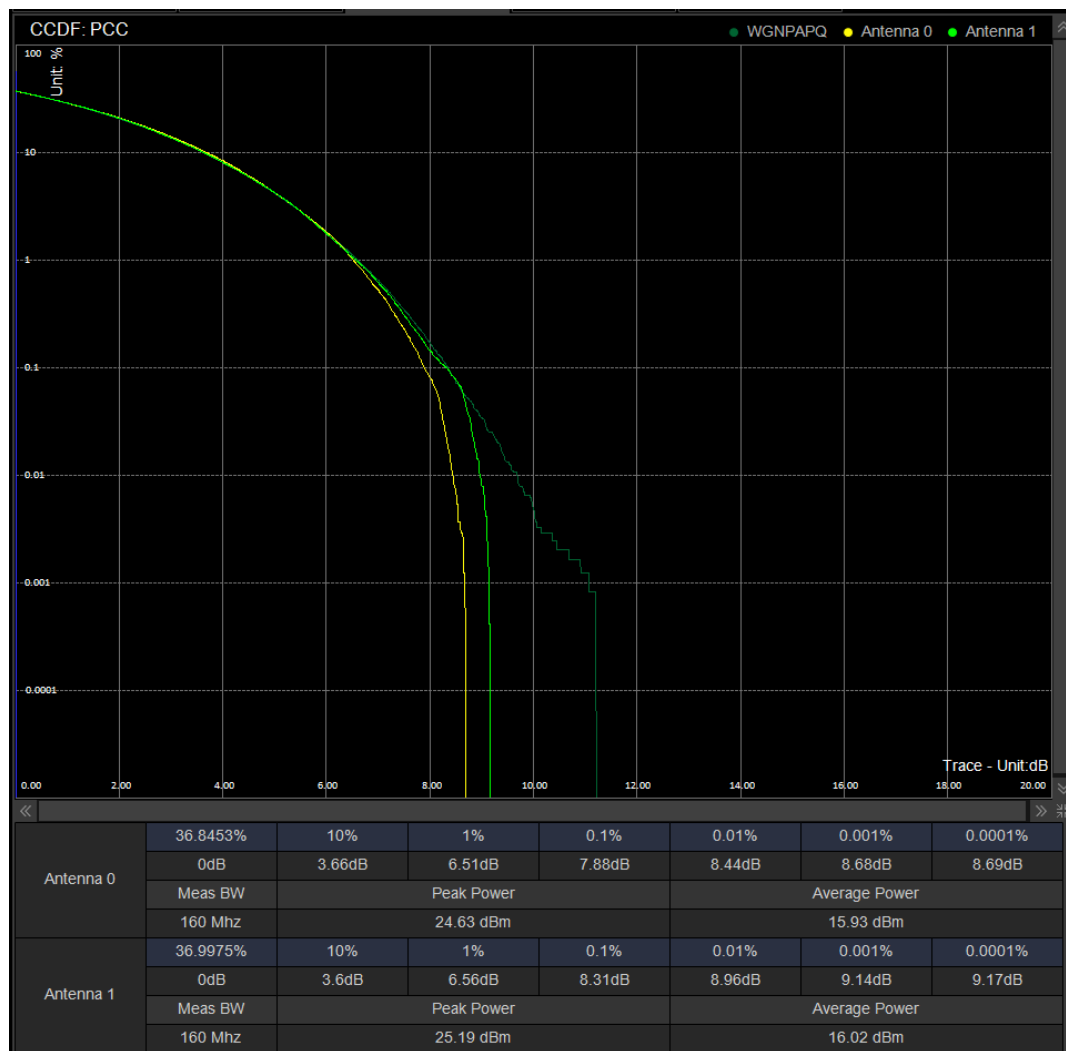
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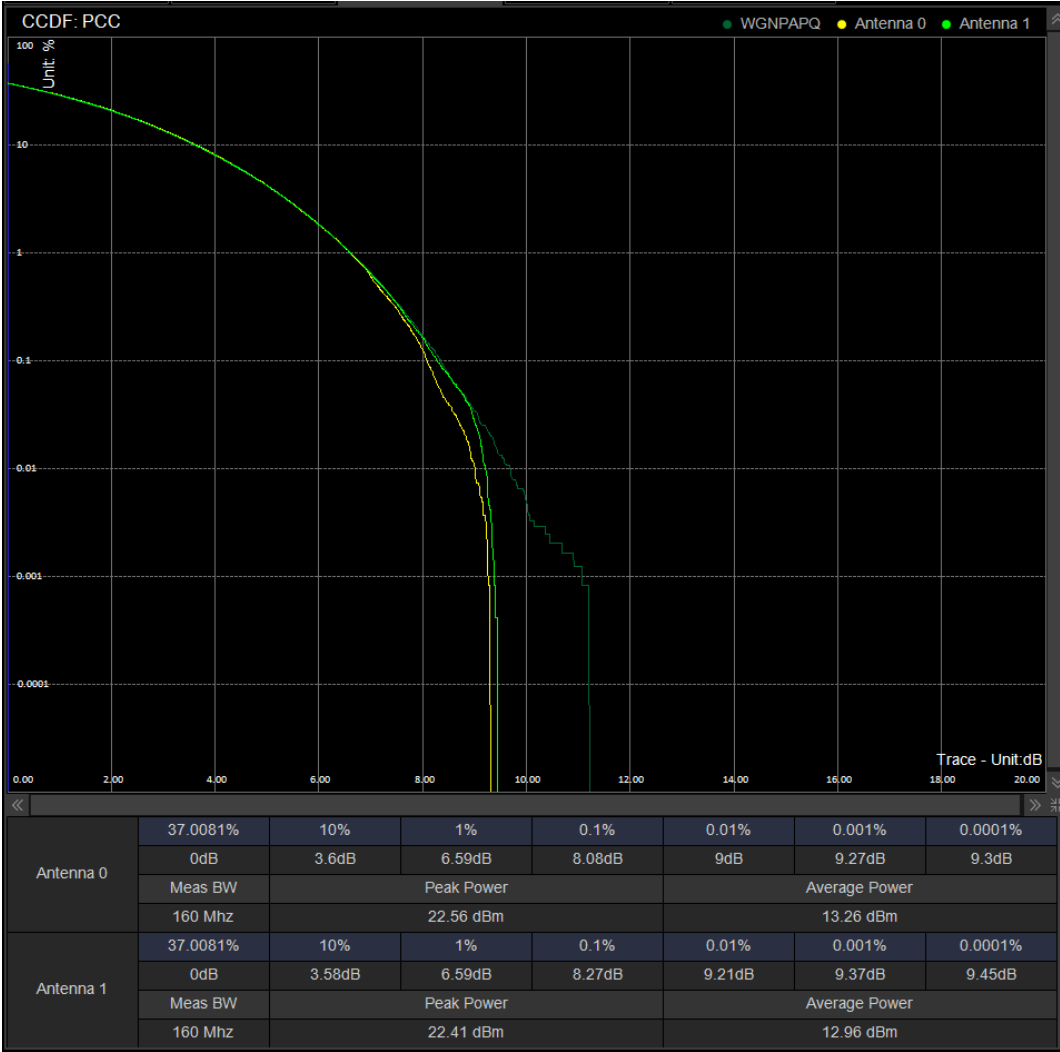
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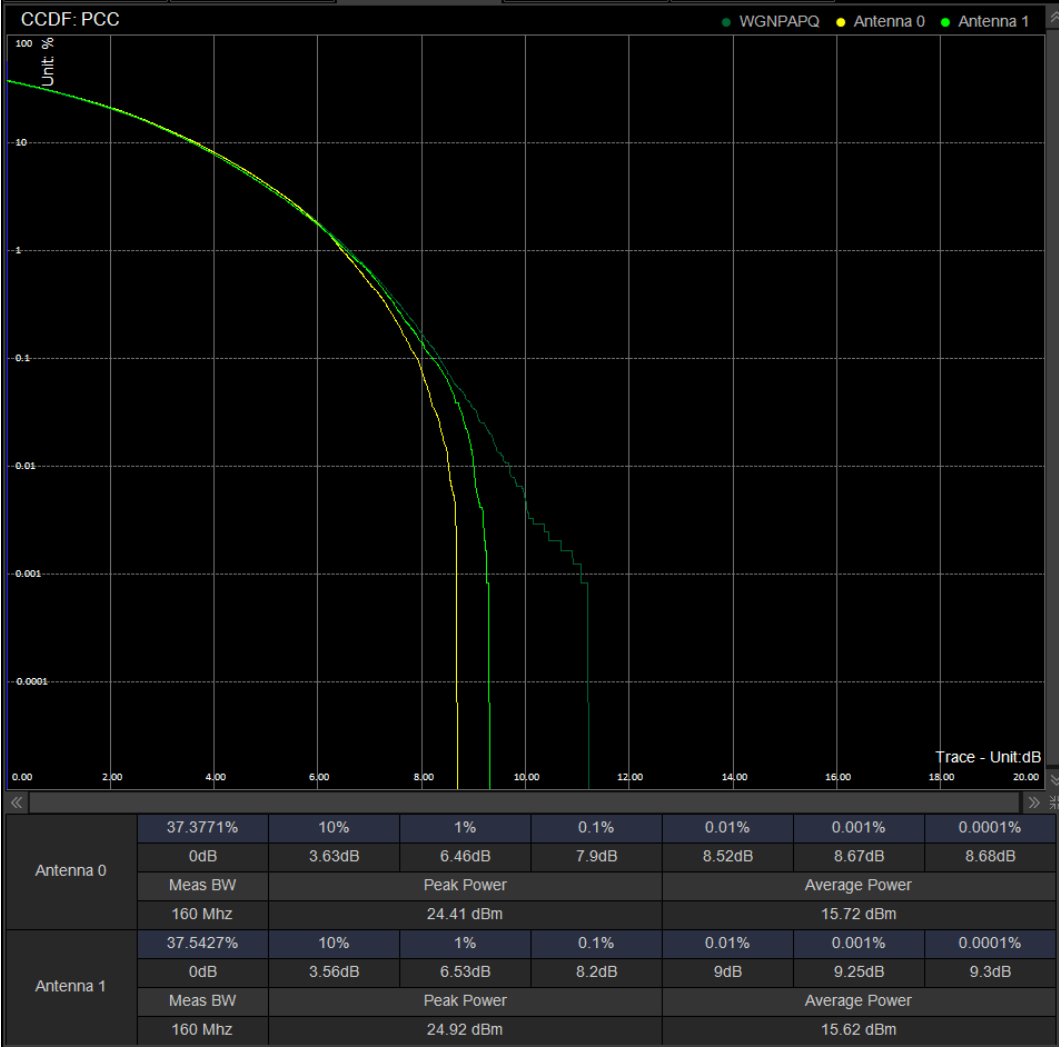
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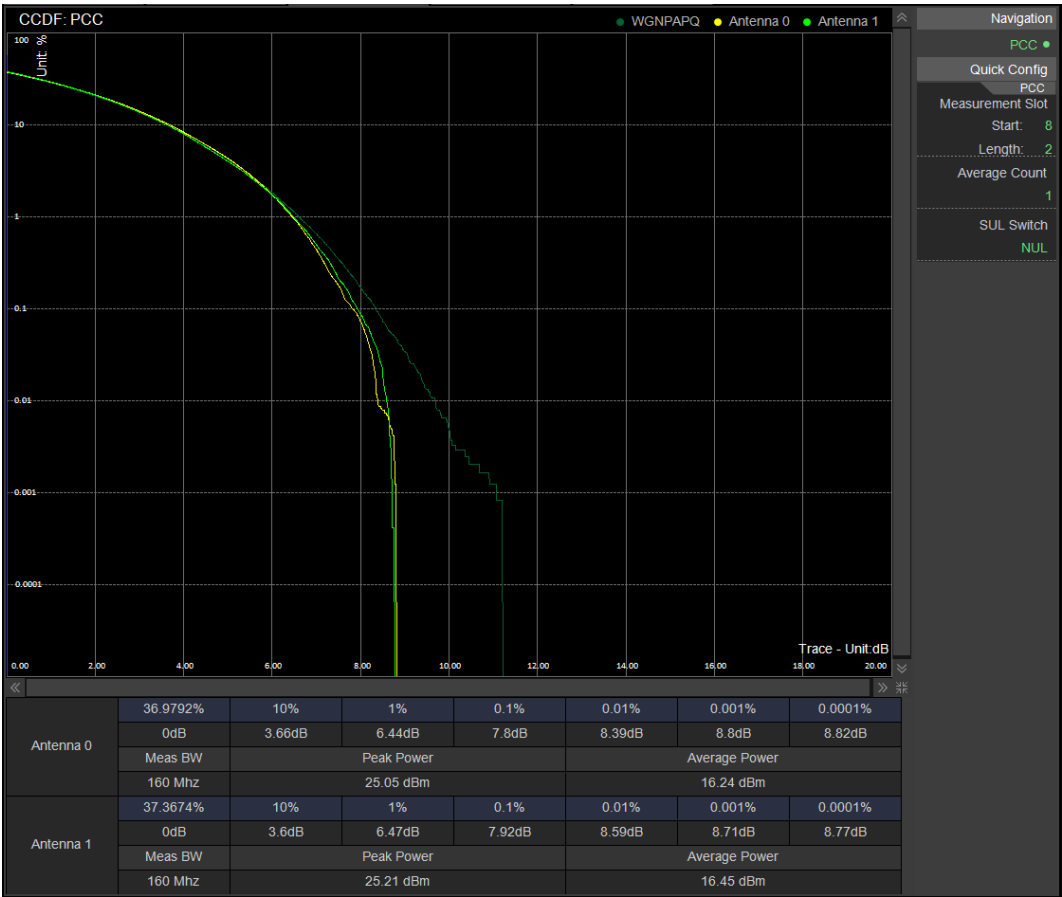
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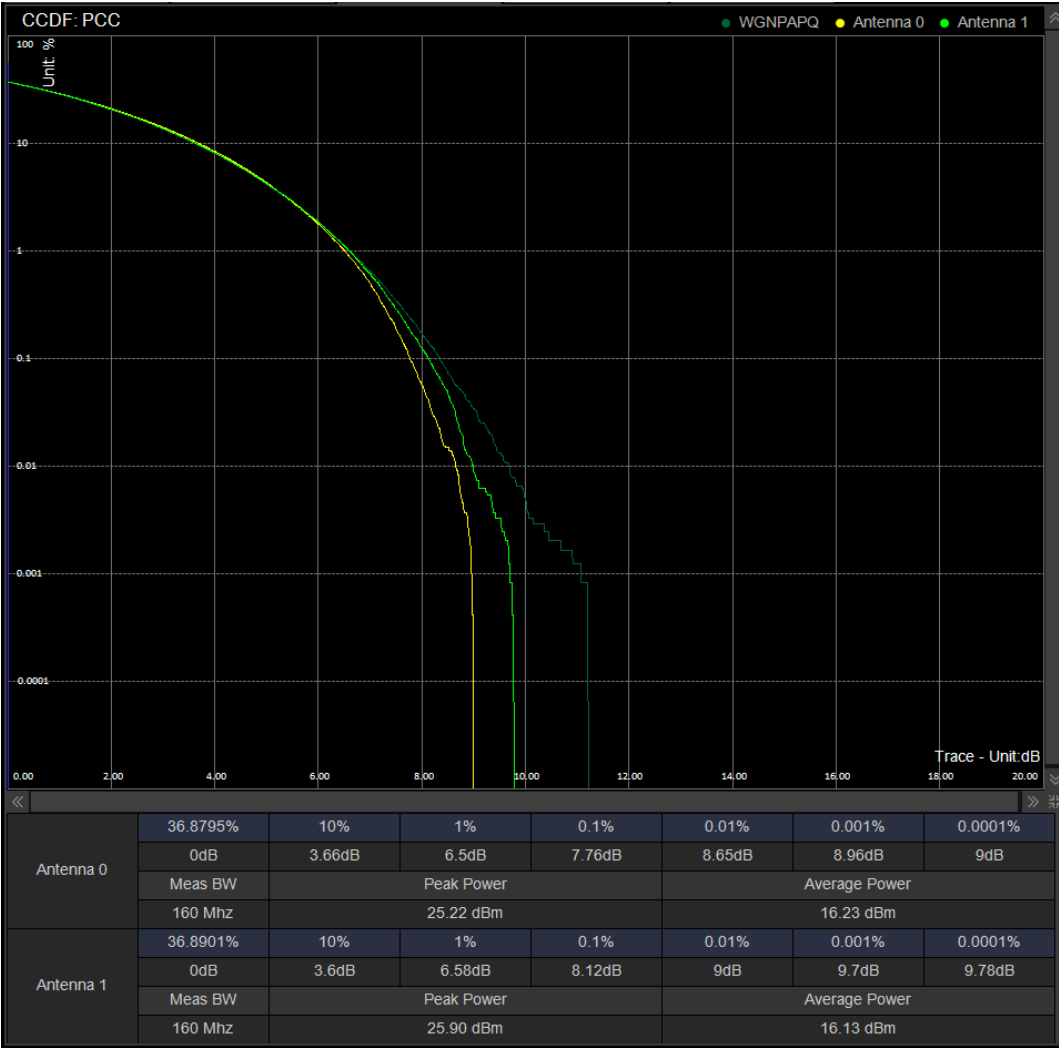
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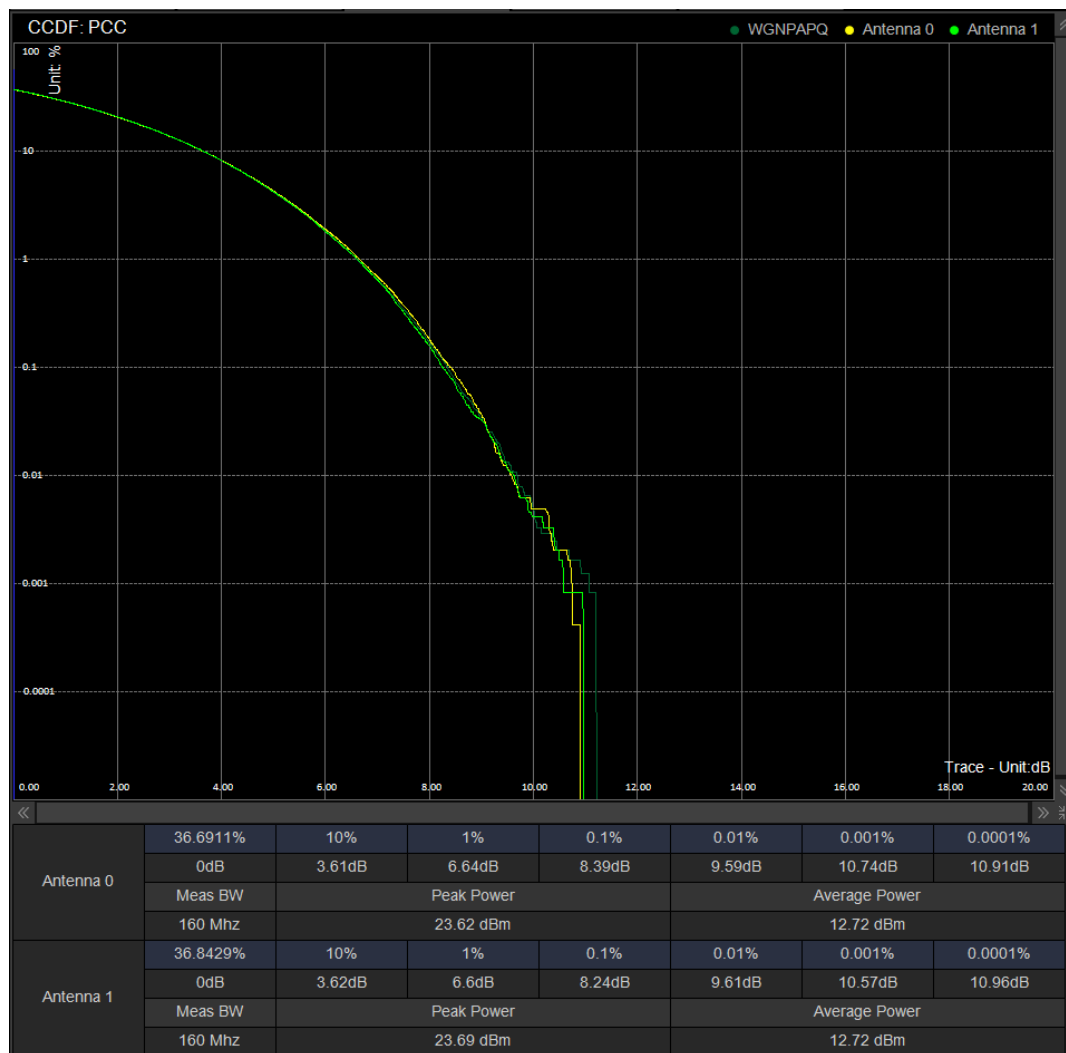
MIMO\PC3\NR n77(3700-3980)\10M 64QAM



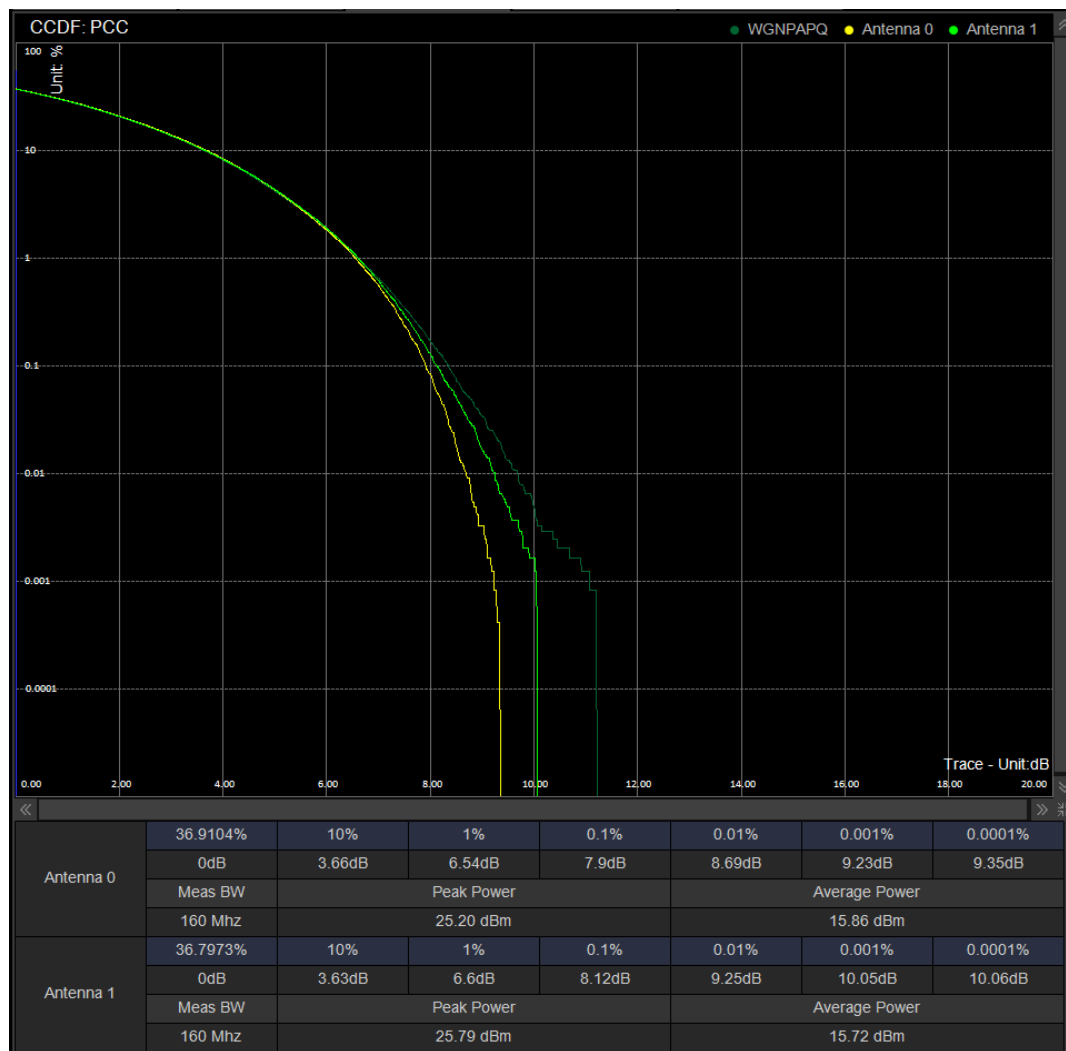
MIMO\PC3\NR n77(3700-3980)\10M QPSK



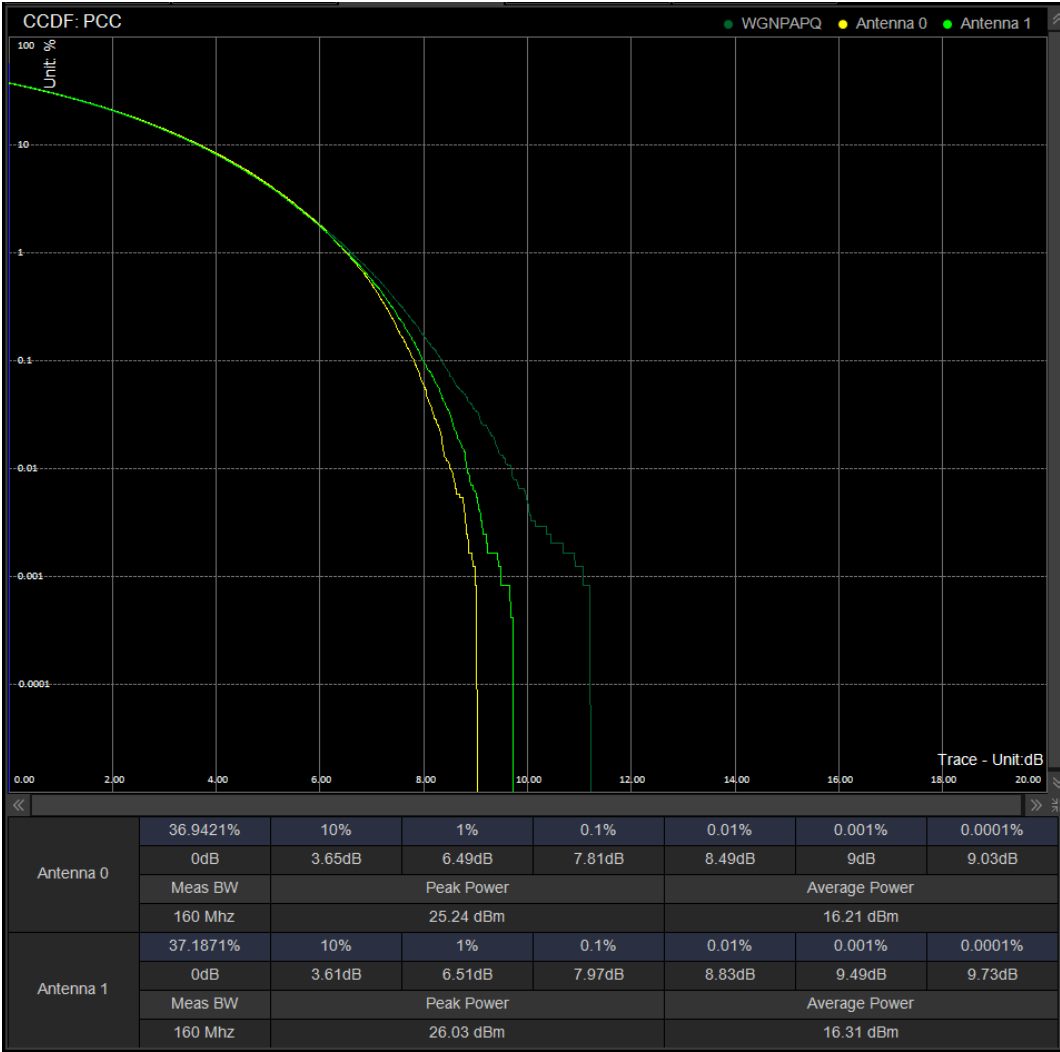
MIMO\PC3\NR n77(3700-3980)\50M 16QAM



MIMO\PC3\NR n77(3700-3980)\50M 256QAM



MIMO\PC3\NR n77(3700-3980)\50M 64QAM



MIMO\PC3\NR n77(3700-3980)\50M QPSK

6.5 Frequency Stability

	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz											
NR n77 (3450-3550) PC3	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	PASS
	Normal (25°C)	Normal	7.47	11.52	6.04	2.83	16.73	0.00214	0.00329	0.00173	0.00081	0.00478	
	Extreme (50°C)		15.87	14.29	14.63	6.82	16.68	0.00453	0.00408	0.00418	0.00195	0.00477	
	Extreme (40°C)		1.94	16.72	13.17	14.17	6.97	0.00056	0.00478	0.00376	0.00405	0.00199	
	Extreme (30°C)		3.14	8.53	7.60	8.94	10.91	0.00090	0.00244	0.00217	0.00255	0.00312	
	Extreme (20°C)		11.60	5.39	4.72	4.23	3.18	0.00331	0.00154	0.00135	0.00121	0.00091	
	Extreme (10°C)		6.43	11.29	4.77	11.68	11.57	0.00184	0.00322	0.00136	0.00334	0.00331	
	Extreme (0°C)		2.09	5.67	5.16	13.85	16.10	0.00060	0.00162	0.00148	0.00396	0.00460	
	Extreme (-10°C)		2.75	17.96	2.94	8.50	7.03	0.00079	0.00513	0.00084	0.00243	0.00201	
	Extreme (-20°C)		10.56	10.62	13.45	13.58	9.76	0.00302	0.00304	0.00384	0.00388	0.00279	
	Extreme (-30°C)		13.60	5.98	16.02	8.30	15.49	0.00389	0.00171	0.00458	0.00237	0.00443	
	25°C	LV	4.42	2.96	1.43	5.83	13.38	0.00126	0.00085	0.00041	0.00167	0.00382	
		HV	10.46	7.01	5.10	16.65	13.48	0.00299	0.00200	0.00146	0.00476	0.00385	
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	PASS
	BANDWIDTH	15MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	1.73	8.46	2.19	13.68	13.57	0.00049	0.00242	0.00062	0.00391	0.00388	
	Extreme (50°C)		11.12	12.04	7.08	16.38	17.91	0.00318	0.00344	0.00202	0.00468	0.00512	
	Extreme (40°C)		4.09	6.13	17.37	8.86	10.44	0.00117	0.00175	0.00496	0.00253	0.00298	
	Extreme (30°C)		2.77	5.35	8.58	12.15	7.07	0.00079	0.00153	0.00245	0.00347	0.00202	
	Extreme (20°C)		14.92	1.60	2.53	17.29	14.24	0.00426	0.00046	0.00072	0.00494	0.00407	
	Extreme (10°C)		16.73	13.83	12.47	1.01	4.59	0.00478	0.00395	0.00356	0.00029	0.00131	
	Extreme (0°C)		14.21	2.40	5.95	2.87	3.33	0.00406	0.00069	0.00170	0.00082	0.00095	
	Extreme (-10°C)		15.25	1.62	7.64	15.61	12.30	0.00436	0.00046	0.00218	0.00446	0.00351	
	Extreme (-20°C)		14.83	9.30	10.69	1.19	3.01	0.00424	0.00266	0.00305	0.00034	0.00086	
	Extreme (-30°C)		3.98	12.40	11.67	5.14	1.34	0.00114	0.00354	0.00334	0.00147	0.00038	
	25°C	LV	17.56	11.34	7.09	12.37	14.77	0.00502	0.00324	0.00203	0.00353	0.00422	
		HV	7.24	10.49	7.89	2.72	13.03	0.00207	0.00300	0.00225	0.00078	0.00372	
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	PASS
	BANDWIDTH	20MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	9.63	5.35	10.49	5.22	11.31	0.00275	0.00153	0.00300	0.00149	0.00323	
	Extreme (50°C)		2.01	1.88	12.45	8.46	1.58	0.00057	0.00054	0.00356	0.00242	0.00045	
	Extreme (40°C)		17.28	2.71	15.11	7.76	6.76	0.00494	0.00077	0.00432	0.00222	0.00193	
	Extreme (30°C)		6.27	10.22	6.00	6.48	9.79	0.00179	0.00292	0.00171	0.00185	0.00280	
	Extreme (20°C)		12.98	7.38	8.95	14.69	12.65	0.00371	0.00211	0.00256	0.00420	0.00361	

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	Extreme (10°C)		13.74	10.13	7.56	4.97	6.76	0.00393	0.00290	0.00216	0.00142	0.00193	PASS
	Extreme (0°C)		4.49	6.51	8.62	3.79	16.16	0.00128	0.00186	0.00246	0.00108	0.00462	PASS
	Extreme (-10°C)		11.22	6.26	13.94	2.15	6.72	0.00321	0.00179	0.00398	0.00061	0.00192	PASS
	Extreme (-20°C)		2.81	1.75	2.07	12.58	7.68	0.00080	0.00050	0.00059	0.00359	0.00219	PASS
	Extreme (-30°C)		4.69	4.32	14.06	13.67	1.31	0.00134	0.00123	0.00402	0.00391	0.00037	PASS
	25°C	LV	11.86	9.52	17.55	13.36	2.57	0.00339	0.00272	0.00501	0.00382	0.00073	PASS
		HV	2.69	8.75	15.73	17.70	15.21	0.00077	0.00250	0.00449	0.00506	0.00434	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	30MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	12.96	2.77	7.03	15.54	16.62	0.00370	0.00079	0.00201	0.00444	0.00475	PASS
	Extreme (50°C)		11.23	3.20	7.51	8.67	13.00	0.00321	0.00091	0.00214	0.00248	0.00372	PASS
	Extreme (40°C)		7.19	15.48	13.95	14.68	14.65	0.00205	0.00442	0.00399	0.00419	0.00419	PASS
	Extreme (30°C)		5.30	13.16	13.19	17.51	2.84	0.00151	0.00376	0.00377	0.00500	0.00081	PASS
	Extreme (20°C)		5.88	9.67	5.45	9.21	7.38	0.00168	0.00276	0.00156	0.00263	0.00211	PASS
	Extreme (10°C)		6.49	13.66	10.79	10.70	16.30	0.00185	0.00390	0.00308	0.00306	0.00466	PASS
	Extreme (0°C)		11.59	3.43	7.82	14.01	8.74	0.00331	0.00098	0.00223	0.00400	0.00250	PASS
	Extreme (-10°C)		7.54	9.70	12.65	7.27	10.36	0.00215	0.00277	0.00361	0.00208	0.00296	PASS
	Extreme (-20°C)		4.19	17.33	9.04	15.89	8.22	0.00120	0.00495	0.00258	0.00454	0.00235	PASS
	Extreme (-30°C)		13.66	12.55	16.16	4.69	2.54	0.00390	0.00359	0.00462	0.00134	0.00072	PASS
	25°C	LV	3.59	11.87	13.16	10.03	5.49	0.00103	0.00339	0.00376	0.00287	0.00157	PASS
		HV	6.94	16.23	5.87	11.83	8.27	0.00198	0.00464	0.00168	0.00338	0.00236	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	40MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	1.65	10.24	13.25	5.57	1.78	0.00047	0.00293	0.00379	0.00159	0.00051	PASS
	Extreme (50°C)		5.80	1.58	17.55	13.62	3.18	0.00166	0.00045	0.00502	0.00389	0.00091	PASS
	Extreme (40°C)		14.06	11.56	17.36	6.08	10.96	0.00402	0.00330	0.00496	0.00174	0.00313	PASS
	Extreme (30°C)		11.81	9.18	8.33	3.72	7.71	0.00337	0.00262	0.00238	0.00106	0.00220	PASS
	Extreme (20°C)		14.83	5.24	5.88	3.74	17.32	0.00424	0.00150	0.00168	0.00107	0.00495	PASS
	Extreme (10°C)		2.32	8.67	12.27	3.71	1.71	0.00066	0.00248	0.00351	0.00106	0.00049	PASS
	Extreme (0°C)		17.39	4.97	16.87	3.19	13.66	0.00497	0.00142	0.00482	0.00091	0.00390	PASS
	Extreme (-10°C)		1.63	16.61	7.89	10.89	8.29	0.00046	0.00475	0.00225	0.00311	0.00237	PASS
	Extreme (-20°C)		12.29	15.07	13.68	13.48	9.81	0.00351	0.00431	0.00391	0.00385	0.00280	PASS
	Extreme (-30°C)		7.12	7.54	5.43	12.76	15.83	0.00203	0.00215	0.00155	0.00365	0.00452	PASS
	25°C	LV	16.94	11.52	2.56	16.47	1.35	0.00484	0.00329	0.00073	0.00471	0.00039	PASS
		HV	4.36	15.09	4.80	16.09	15.45	0.00125	0.00431	0.00137	0.00460	0.00441	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	50MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	

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	Normal (25℃)	Normal	1.71	5.94	5.34	14.31	12.94	0.00049	0.00170	0.00153	0.00409	0.00370	PASS
	Extreme (50℃)		11.00	12.67	13.68	10.02	12.66	0.00314	0.00362	0.00391	0.00286	0.00362	PASS
	Extreme (40℃)		11.93	16.97	11.13	14.56	1.31	0.00341	0.00485	0.00318	0.00416	0.00037	PASS
	Extreme (30℃)		10.09	13.77	14.65	1.23	6.44	0.00288	0.00393	0.00418	0.00035	0.00184	PASS
	Extreme (20℃)		4.92	5.40	5.25	14.69	10.98	0.00141	0.00154	0.00150	0.00420	0.00314	PASS
	Extreme (10℃)		2.66	17.19	8.75	9.40	3.38	0.00076	0.00491	0.00250	0.00268	0.00097	PASS
	Extreme (0℃)		7.55	10.78	2.96	3.88	14.31	0.00216	0.00308	0.00085	0.00111	0.00409	PASS
	Extreme (-10℃)		16.44	7.25	9.32	5.98	13.74	0.00470	0.00207	0.00266	0.00171	0.00393	PASS
	Extreme (-20℃)		15.52	7.52	7.19	10.84	3.54	0.00443	0.00215	0.00205	0.00310	0.00101	PASS
	Extreme (-30℃)		13.69	6.95	2.16	13.29	10.07	0.00391	0.00199	0.00062	0.00380	0.00288	PASS
	25℃	LV	4.98	16.77	12.50	13.51	15.69	0.00142	0.00479	0.00357	0.00386	0.00448	PASS
		HV	17.71	11.54	17.67	16.05	15.18	0.00506	0.00330	0.00505	0.00459	0.00434	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	60MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	2.21	16.98	9.71	9.51	4.94	0.00063	0.00485	0.00277	0.00272	0.00141	PASS
	Extreme (50℃)		1.86	2.49	6.24	16.15	8.54	0.00053	0.00071	0.00178	0.00461	0.00244	PASS
	Extreme (40℃)		15.29	12.72	17.65	5.99	16.51	0.00437	0.00364	0.00504	0.00171	0.00472	PASS
	Extreme (30℃)		2.51	9.60	2.00	12.52	6.82	0.00072	0.00274	0.00057	0.00358	0.00195	PASS
	Extreme (20℃)		5.75	5.14	12.30	15.50	10.87	0.00164	0.00147	0.00351	0.00443	0.00311	PASS
	Extreme (10℃)		11.22	14.69	7.92	2.79	6.01	0.00321	0.00420	0.00226	0.00080	0.00172	PASS
	Extreme (0℃)		17.97	1.17	2.71	17.40	6.70	0.00514	0.00033	0.00077	0.00497	0.00192	PASS
	Extreme (-10℃)		5.66	12.52	11.46	10.21	11.67	0.00162	0.00358	0.00327	0.00292	0.00333	PASS
	Extreme (-20℃)		7.39	14.57	14.44	2.26	2.73	0.00211	0.00416	0.00412	0.00064	0.00078	PASS
	Extreme (-30℃)		10.03	4.02	3.33	16.24	11.25	0.00287	0.00115	0.00095	0.00464	0.00321	PASS
	25℃	LV	4.47	2.47	16.01	8.30	4.28	0.00128	0.00071	0.00457	0.00237	0.00122	PASS
		HV	13.03	15.12	4.25	7.94	8.28	0.00372	0.00432	0.00121	0.00227	0.00237	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	80MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	17.51	4.41	2.26	4.23	3.72	0.00500	0.00126	0.00065	0.00121	0.00106	PASS
	Extreme (50℃)		12.30	5.54	15.86	5.26	15.35	0.00352	0.00158	0.00453	0.00150	0.00439	PASS
	Extreme (40℃)		16.09	4.51	1.31	1.46	3.49	0.00460	0.00129	0.00038	0.00042	0.00100	PASS
	Extreme (30℃)		10.29	6.18	16.51	9.36	1.57	0.00294	0.00177	0.00472	0.00267	0.00045	PASS
	Extreme (20℃)		17.89	9.40	9.34	11.45	3.86	0.00511	0.00268	0.00267	0.00327	0.00110	PASS
	Extreme (10℃)		10.06	4.53	5.71	8.46	14.24	0.00288	0.00129	0.00163	0.00242	0.00407	PASS
	Extreme (0℃)		14.58	15.77	3.15	3.89	7.22	0.00417	0.00451	0.00090	0.00111	0.00206	PASS
	Extreme (-10℃)		7.20	5.45	3.85	3.47	4.65	0.00206	0.00156	0.00110	0.00099	0.00133	PASS
	Extreme (-20℃)		15.71	17.46	17.59	9.97	13.49	0.00449	0.00499	0.00502	0.00285	0.00385	PASS
	Extreme (-30℃)		3.89	2.77	10.15	8.27	5.72	0.00111	0.00079	0.00290	0.00236	0.00163	PASS
	25℃	LV	3.75	6.16	2.39	3.52	3.50	0.00107	0.00176	0.00068	0.00101	0.00100	PASS

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		HV	6.32	8.30	6.99	4.85	3.83	0.00181	0.00237	0.00200	0.00139	0.00109	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	90MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	14.05	5.84	15.70	2.87	17.25	0.00402	0.00167	0.00449	0.00082	0.00493	PASS
	Extreme (50°C)		14.91	3.82	12.86	9.16	11.64	0.00426	0.00109	0.00367	0.00262	0.00333	PASS
	Extreme (40°C)		17.25	9.96	2.24	8.51	4.54	0.00493	0.00285	0.00064	0.00243	0.00130	PASS
	Extreme (30°C)		16.78	6.47	9.21	1.54	12.14	0.00479	0.00185	0.00263	0.00044	0.00347	PASS
	Extreme (20°C)		1.31	9.27	12.29	7.34	5.92	0.00037	0.00265	0.00351	0.00210	0.00169	PASS
	Extreme (10°C)		10.43	5.43	4.34	12.25	1.63	0.00298	0.00155	0.00124	0.00350	0.00047	PASS
	Extreme (0°C)		13.62	6.68	1.65	15.51	15.14	0.00389	0.00191	0.00047	0.00443	0.00433	PASS
	Extreme (-10°C)		17.71	17.49	15.26	12.03	12.03	0.00506	0.00500	0.00436	0.00344	0.00344	PASS
	Extreme (-20°C)		6.72	15.89	15.82	6.21	10.16	0.00192	0.00454	0.00452	0.00178	0.00290	PASS
	Extreme (-30°C)		9.33	11.04	12.68	14.21	9.61	0.00267	0.00315	0.00362	0.00406	0.00274	PASS
	25°C	LV	10.83	15.51	12.97	16.22	14.63	0.00310	0.00443	0.00371	0.00463	0.00418	PASS
		HV	5.10	8.03	10.41	17.12	12.61	0.00146	0.00230	0.00297	0.00489	0.00360	PASS
NR n77 (3450-3550) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	100MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	12.33	9.04	12.60	7.94	11.17	0.00352	0.00258	0.00360	0.00227	0.00319	PASS
	Extreme (50°C)		4.21	10.51	12.71	13.19	13.04	0.00120	0.00300	0.00363	0.00377	0.00373	PASS
	Extreme (40°C)		4.36	5.51	1.48	6.39	3.66	0.00125	0.00157	0.00042	0.00182	0.00105	PASS
	Extreme (30°C)		5.19	13.99	2.05	7.44	8.40	0.00148	0.00400	0.00059	0.00213	0.00240	PASS
	Extreme (20°C)		15.60	12.62	7.81	9.82	10.74	0.00446	0.00361	0.00223	0.00281	0.00307	PASS
	Extreme (10°C)		3.59	6.49	1.42	5.82	17.74	0.00102	0.00185	0.00041	0.00166	0.00507	PASS
	Extreme (0°C)		7.64	17.69	7.68	7.25	10.89	0.00218	0.00505	0.00219	0.00207	0.00311	PASS
	Extreme (-10°C)		16.64	13.48	6.46	9.22	10.56	0.00475	0.00385	0.00185	0.00264	0.00302	PASS
	Extreme (-20°C)		17.19	15.09	5.23	9.09	4.04	0.00491	0.00431	0.00149	0.00260	0.00115	PASS
	Extreme (-30°C)		13.93	2.54	11.69	13.92	7.18	0.00398	0.00073	0.00334	0.00398	0.00205	PASS
	25°C	LV	8.81	4.58	2.90	4.63	5.27	0.00252	0.00131	0.00083	0.00132	0.00151	PASS
		HV	7.63	4.65	16.12	13.68	3.96	0.00218	0.00133	0.00461	0.00391	0.00113	PASS
NR n77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	5.00	1.31	6.59	5.07	13.06	0.00143	0.00037	0.00188	0.00145	0.00373	PASS
	Extreme (50°C)		14.10	3.87	14.38	1.76	4.80	0.00403	0.00111	0.00411	0.00050	0.00137	PASS
	Extreme (40°C)		12.36	5.30	16.69	10.50	7.73	0.00353	0.00151	0.00477	0.00300	0.00221	PASS
	Extreme (30°C)		14.06	3.32	6.07	11.84	8.10	0.00402	0.00095	0.00173	0.00338	0.00231	PASS
	Extreme (20°C)		6.74	7.28	15.05	1.14	2.49	0.00193	0.00208	0.00430	0.00033	0.00071	PASS
	Extreme (10°C)		17.01	17.44	11.17	2.13	11.45	0.00486	0.00498	0.00319	0.00061	0.00327	PASS

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	Extreme (0℃)		2.24	4.56	7.17	3.17	3.52	0.00064	0.00130	0.00205	0.00091	0.00101	PASS
	Extreme (-10℃)		1.37	6.91	16.98	5.13	17.21	0.00039	0.00198	0.00485	0.00147	0.00492	PASS
	Extreme (-20℃)		11.12	8.86	1.55	16.29	13.30	0.00318	0.00253	0.00044	0.00466	0.00380	PASS
	Extreme (-30℃)		16.93	7.61	15.26	14.60	6.62	0.00484	0.00217	0.00436	0.00417	0.00189	PASS
	25℃	LV	8.94	1.30	13.80	16.83	4.80	0.00256	0.00037	0.00394	0.00481	0.00137	PASS
		HV	9.58	7.44	4.02	7.10	11.98	0.00274	0.00212	0.00115	0.00203	0.00342	PASS
N77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	17.34	3.12	17.94	2.00	13.67	0.00495	0.00089	0.00512	0.00057	0.00391	PASS
	Extreme (50℃)		13.65	9.68	7.52	4.12	11.06	0.00390	0.00277	0.00215	0.00118	0.00316	PASS
	Extreme (40℃)		8.04	4.24	5.98	4.20	4.27	0.00230	0.00121	0.00171	0.00120	0.00122	PASS
	Extreme (30℃)		8.24	12.06	15.47	1.23	3.26	0.00235	0.00344	0.00442	0.00035	0.00093	PASS
	Extreme (20℃)		9.94	5.79	7.44	1.21	9.38	0.00284	0.00165	0.00213	0.00035	0.00268	PASS
	Extreme (10℃)		11.59	11.85	2.35	2.93	12.53	0.00331	0.00339	0.00067	0.00084	0.00358	PASS
	Extreme (0℃)		4.13	9.07	13.60	17.44	9.90	0.00118	0.00259	0.00389	0.00498	0.00283	PASS
	Extreme (-10℃)		10.89	5.75	9.40	11.64	17.67	0.00311	0.00164	0.00268	0.00333	0.00505	PASS
	Extreme (-20℃)		10.61	12.38	12.38	9.46	14.61	0.00303	0.00354	0.00354	0.00270	0.00417	PASS
	Extreme (-30℃)		1.47	6.93	9.51	12.07	10.23	0.00042	0.00198	0.00272	0.00345	0.00292	PASS
	25℃	LV	2.58	11.31	9.34	4.29	3.65	0.00074	0.00323	0.00267	0.00123	0.00104	PASS
		HV	1.93	10.42	13.00	15.44	3.69	0.00055	0.00298	0.00371	0.00441	0.00105	PASS
N77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	8.99	11.68	9.85	14.42	12.03	0.00257	0.00334	0.00282	0.00412	0.00344	PASS
	Extreme (50℃)		1.98	12.37	4.37	4.30	9.47	0.00056	0.00353	0.00125	0.00123	0.00271	PASS
	Extreme (40℃)		16.52	11.49	6.67	7.42	5.96	0.00472	0.00328	0.00190	0.00212	0.00170	PASS
	Extreme (30℃)		2.90	4.63	17.91	3.60	12.49	0.00083	0.00132	0.00512	0.00103	0.00357	PASS
	Extreme (20℃)		15.00	17.36	16.01	8.47	8.17	0.00429	0.00496	0.00457	0.00242	0.00233	PASS
	Extreme (10℃)		3.43	13.15	16.45	5.75	8.76	0.00098	0.00376	0.00470	0.00164	0.00250	PASS
	Extreme (0℃)		13.97	13.53	9.43	10.24	3.47	0.00399	0.00387	0.00269	0.00292	0.00099	PASS
	Extreme (-10℃)		7.31	3.32	5.52	11.10	14.18	0.00209	0.00095	0.00158	0.00317	0.00405	PASS
	Extreme (-20℃)		10.00	9.03	7.01	16.27	7.63	0.00286	0.00258	0.00200	0.00465	0.00218	PASS
	Extreme (-30℃)		14.33	6.66	9.80	6.36	4.33	0.00409	0.00190	0.00280	0.00182	0.00124	PASS
	25℃	LV	5.36	7.77	6.34	14.62	17.03	0.00153	0.00222	0.00181	0.00418	0.00487	PASS
		HV	8.06	8.20	16.50	3.50	13.33	0.00230	0.00234	0.00472	0.00100	0.00381	PASS
NR n77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	30MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	4.81	8.68	5.27	8.23	3.63	0.00137	0.00248	0.00151	0.00235	0.00104	PASS

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	Extreme (50°C)		9.53	13.52	4.12	5.34	11.93	0.00272	0.00386	0.00118	0.00153	0.00341	PASS
	Extreme (40°C)		12.74	4.98	3.99	13.47	13.82	0.00364	0.00142	0.00114	0.00385	0.00395	PASS
	Extreme (30°C)		1.08	7.29	9.66	12.76	11.85	0.00031	0.00208	0.00276	0.00365	0.00339	PASS
	Extreme (20°C)		10.13	16.97	12.45	17.47	15.18	0.00289	0.00485	0.00356	0.00499	0.00434	PASS
	Extreme (10°C)		13.37	8.79	11.24	9.07	8.99	0.00382	0.00251	0.00321	0.00259	0.00257	PASS
	Extreme (0°C)		12.15	13.32	4.58	3.67	8.67	0.00347	0.00381	0.00131	0.00105	0.00248	PASS
	Extreme (-10°C)		14.67	2.03	8.49	15.57	5.44	0.00419	0.00058	0.00242	0.00445	0.00156	PASS
	Extreme (-20°C)		3.37	3.88	4.19	10.95	3.90	0.00096	0.00111	0.00120	0.00313	0.00111	PASS
	Extreme (-30°C)		8.03	17.59	17.48	2.61	10.65	0.00229	0.00502	0.00499	0.00075	0.00304	PASS
	25°C	LV	10.13	13.97	3.63	8.70	6.70	0.00289	0.00399	0.00104	0.00249	0.00191	PASS
		HV	14.79	13.24	7.87	17.24	7.85	0.00423	0.00378	0.00225	0.00493	0.00224	PASS
NR n77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	40MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	1.31	16.59	8.63	8.37	3.28	0.00037	0.00474	0.00247	0.00239	0.00094	PASS
	Extreme (50°C)		10.86	14.92	17.22	15.09	8.30	0.00310	0.00426	0.00492	0.00431	0.00237	PASS
	Extreme (40°C)		5.11	13.15	9.81	9.52	9.44	0.00146	0.00376	0.00280	0.00272	0.00270	PASS
	Extreme (30°C)		10.65	4.03	9.52	9.49	9.81	0.00304	0.00115	0.00272	0.00271	0.00280	PASS
	Extreme (20°C)		8.04	10.35	1.91	16.95	9.79	0.00230	0.00296	0.00054	0.00484	0.00280	PASS
	Extreme (10°C)		13.11	13.49	15.84	16.48	14.55	0.00375	0.00385	0.00453	0.00471	0.00416	PASS
	Extreme (0°C)		6.79	1.90	7.12	14.31	10.41	0.00194	0.00054	0.00203	0.00409	0.00297	PASS
	Extreme (-10°C)		9.72	16.30	1.92	8.98	9.03	0.00278	0.00466	0.00055	0.00257	0.00258	PASS
	Extreme (-20°C)		17.50	6.72	4.70	8.00	9.12	0.00500	0.00192	0.00134	0.00229	0.00261	PASS
	Extreme (-30°C)		12.06	4.62	2.78	14.81	5.92	0.00345	0.00132	0.00079	0.00423	0.00169	PASS
	25°C	LV	17.13	17.34	3.88	2.82	4.64	0.00489	0.00495	0.00111	0.00081	0.00133	PASS
		HV	2.05	10.26	14.52	16.84	10.50	0.00059	0.00293	0.00415	0.00481	0.00300	PASS
NR n77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	50MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	6.56	3.11	8.64	12.83	6.91	0.00187	0.00089	0.00247	0.00367	0.00197	PASS
	Extreme (50°C)		1.01	3.52	8.78	10.57	3.59	0.00029	0.00101	0.00251	0.00302	0.00103	PASS
	Extreme (40°C)		5.43	17.52	14.15	4.57	3.95	0.00155	0.00501	0.00404	0.00131	0.00113	PASS
	Extreme (30°C)		12.26	16.32	6.12	4.23	11.33	0.00350	0.00466	0.00175	0.00121	0.00324	PASS
	Extreme (20°C)		16.87	17.84	16.74	4.83	2.09	0.00482	0.00510	0.00478	0.00138	0.00060	PASS
	Extreme (10°C)		16.29	7.69	6.04	4.43	15.04	0.00466	0.00220	0.00172	0.00127	0.00430	PASS
	Extreme (0°C)		4.31	6.34	17.23	5.27	4.79	0.00123	0.00181	0.00492	0.00151	0.00137	PASS
	Extreme (-10°C)		11.36	2.96	15.82	4.88	12.47	0.00325	0.00085	0.00452	0.00139	0.00356	PASS
	Extreme (-20°C)		15.00	14.61	5.52	6.36	3.85	0.00429	0.00417	0.00158	0.00182	0.00110	PASS
	Extreme (-30°C)		17.13	12.23	16.70	6.93	7.64	0.00490	0.00349	0.00477	0.00198	0.00218	PASS
	25°C	LV	15.34	14.58	9.55	9.64	13.09	0.00438	0.00417	0.00273	0.00275	0.00374	PASS
		HV	13.61	16.35	8.33	14.90	8.50	0.00389	0.00467	0.00238	0.00426	0.00243	PASS

	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict	
	BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)		
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK		
NR n77 (3700-3980) PC3	Normal (25℃)	Normal	5.60	10.67	13.86	2.47	12.54	0.00160	0.00305	0.00396	0.00071	0.00358	PASS	
	Extreme (50℃)		9.16	8.45	8.73	9.90	8.23	0.00262	0.00242	0.00250	0.00283	0.00235	PASS	
	Extreme (40℃)		1.95	5.45	2.19	9.53	17.10	0.00056	0.00156	0.00062	0.00272	0.00489	PASS	
	Extreme (30℃)		5.88	5.57	9.17	12.66	3.08	0.00168	0.00159	0.00262	0.00362	0.00088	PASS	
	Extreme (20℃)		4.29	10.09	11.89	17.23	11.41	0.00123	0.00288	0.00340	0.00492	0.00326	PASS	
	Extreme (10℃)		9.65	14.32	2.25	3.90	3.14	0.00276	0.00409	0.00064	0.00111	0.00090	PASS	
	Extreme (0℃)		5.61	12.92	9.93	13.62	5.09	0.00160	0.00369	0.00284	0.00389	0.00145	PASS	
	Extreme (-10℃)		10.63	6.94	11.66	13.34	16.71	0.00304	0.00198	0.00333	0.00381	0.00477	PASS	
	Extreme (-20℃)		2.88	2.46	16.98	16.40	14.29	0.00082	0.00070	0.00485	0.00469	0.00408	PASS	
	Extreme (-30℃)		12.26	2.72	6.45	16.66	7.00	0.00350	0.00078	0.00184	0.00476	0.00200	PASS	
	25℃	LV	9.18	5.31	16.87	10.77	3.34	0.00262	0.00152	0.00482	0.00308	0.00095	PASS	
		HV	13.69	6.41	1.03	9.65	16.30	0.00391	0.00183	0.00029	0.00276	0.00466	PASS	
	NR n77 (3700-3980) PC3	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
		BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature		Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK		
Normal (25℃)		Normal	11.04	14.06	12.13	16.96	6.87	0.00315	0.00402	0.00347	0.00485	0.00196	PASS	
Extreme (50℃)			3.17	15.68	6.63	7.83	2.40	0.00090	0.00448	0.00189	0.00224	0.00069	PASS	
Extreme (40℃)			2.09	11.14	2.12	10.39	5.37	0.00060	0.00318	0.00061	0.00297	0.00153	PASS	
Extreme (30℃)			11.51	9.05	16.81	14.73	10.80	0.00329	0.00259	0.00480	0.00421	0.00309	PASS	
Extreme (20℃)			1.86	12.98	15.60	17.21	3.60	0.00053	0.00371	0.00446	0.00492	0.00103	PASS	
Extreme (10℃)			6.02	14.84	15.69	3.54	8.66	0.00172	0.00424	0.00448	0.00101	0.00248	PASS	
Extreme (0℃)			5.26	9.69	3.60	9.91	4.62	0.00150	0.00277	0.00103	0.00283	0.00132	PASS	
Extreme (-10℃)			7.74	17.39	10.57	12.75	1.00	0.00221	0.00497	0.00302	0.00364	0.00029	PASS	
Extreme (-20℃)			8.93	10.29	3.88	1.94	15.20	0.00255	0.00294	0.00111	0.00056	0.00434	PASS	
Extreme (-30℃)			14.72	5.12	2.19	1.28	3.36	0.00421	0.00146	0.00063	0.00036	0.00096	PASS	
25℃		LV	16.09	6.02	17.48	14.58	9.73	0.00460	0.00172	0.00499	0.00417	0.00278	PASS	
	HV	14.86	7.88	5.28	8.51	10.98	0.00425	0.00225	0.00151	0.00243	0.00314	PASS		
NR n77 (3700-3980) PC3	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict	
	BANDWIDTH	90MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)		
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK		
	Normal (25℃)	Normal	7.92	15.60	5.41	11.85	10.20	0.00226	0.00446	0.00155	0.00339	0.00292	PASS	
	Extreme (50℃)		17.46	4.24	8.67	1.19	2.10	0.00499	0.00121	0.00248	0.00034	0.00060	PASS	
	Extreme (40℃)		14.21	1.95	14.84	11.51	7.39	0.00406	0.00056	0.00424	0.00329	0.00211	PASS	
	Extreme (30℃)		8.35	14.39	13.74	5.53	17.18	0.00239	0.00411	0.00393	0.00158	0.00491	PASS	
	Extreme (20℃)		13.30	12.87	17.89	5.99	7.66	0.00380	0.00368	0.00511	0.00171	0.00219	PASS	
Extreme (10℃)	2.70		9.08	13.31	2.35	16.61	0.00077	0.00259	0.00380	0.00067	0.00474	PASS		
Extreme (0℃)	10.39		2.14	9.76	13.68	6.42	0.00297	0.00061	0.00279	0.00391	0.00183	PASS		

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	Extreme (-10℃)		10.32	16.94	1.81	10.24	8.96	0.00295	0.00484	0.00052	0.00293	0.00256	PASS
	Extreme (-20℃)		13.69	3.15	11.06	12.31	17.06	0.00391	0.00090	0.00316	0.00352	0.00487	PASS
	Extreme (-30℃)		2.02	10.98	2.07	15.99	14.56	0.00058	0.00314	0.00059	0.00457	0.00416	PASS
	25℃	LV	1.04	8.58	8.81	7.30	12.89	0.00030	0.00245	0.00252	0.00208	0.00368	PASS
		HV	13.56	5.00	7.85	8.96	8.98	0.00387	0.00143	0.00224	0.00256	0.00256	PASS
NR n77 (3700-3980) PC3	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	100MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	16.70	2.90	10.18	13.19	2.35	0.00477	0.00083	0.00291	0.00377	0.00067	PASS
	Extreme (50℃)		13.72	7.70	2.25	15.12	14.66	0.00392	0.00220	0.00064	0.00432	0.00419	PASS
	Extreme (40℃)		12.56	16.10	8.07	10.79	9.24	0.00359	0.00460	0.00231	0.00308	0.00264	PASS
	Extreme (30℃)		7.38	8.58	6.24	7.84	8.15	0.00211	0.00245	0.00178	0.00224	0.00233	PASS
	Extreme (20℃)		17.80	13.24	13.21	17.41	2.45	0.00509	0.00378	0.00377	0.00498	0.00070	PASS
	Extreme (10℃)		3.37	11.78	1.19	5.13	3.21	0.00096	0.00337	0.00034	0.00147	0.00092	PASS
	Extreme (0℃)		16.18	13.09	17.18	14.38	17.65	0.00462	0.00374	0.00491	0.00411	0.00504	PASS
	Extreme (-10℃)		5.11	12.40	1.14	16.04	3.58	0.00146	0.00354	0.00033	0.00458	0.00102	PASS
	Extreme (-20℃)		9.13	8.96	12.85	15.61	11.55	0.00261	0.00256	0.00367	0.00446	0.00330	PASS
	Extreme (-30℃)		17.10	6.53	4.05	4.31	12.30	0.00488	0.00187	0.00116	0.00123	0.00351	PASS
	25℃	LV	8.68	1.52	16.99	12.78	12.51	0.00248	0.00044	0.00485	0.00365	0.00357	PASS
		HV	9.07	8.83	6.65	15.30	14.14	0.00259	0.00252	0.00190	0.00437	0.00404	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	5.49	17.74	11.97	8.05	15.40	0.00157	0.00507	0.00342	0.00230	0.00440	PASS
	Extreme (50℃)		12.91	6.41	2.03	10.63	12.80	0.00369	0.00183	0.00058	0.00304	0.00366	PASS
	Extreme (40℃)		6.24	17.13	11.15	4.11	7.10	0.00178	0.00489	0.00319	0.00117	0.00203	PASS
	Extreme (30℃)		9.60	1.44	9.34	4.63	4.78	0.00274	0.00041	0.00267	0.00132	0.00137	PASS
	Extreme (20℃)		3.23	7.28	11.93	4.74	12.62	0.00092	0.00208	0.00341	0.00136	0.00361	PASS
	Extreme (10℃)		3.19	15.10	12.81	7.76	2.44	0.00091	0.00432	0.00366	0.00222	0.00070	PASS
	Extreme (0℃)		17.78	11.58	10.71	1.18	13.75	0.00508	0.00331	0.00306	0.00034	0.00393	PASS
	Extreme (-10℃)		4.00	3.25	11.66	4.57	10.96	0.00114	0.00093	0.00333	0.00131	0.00313	PASS
	Extreme (-20℃)		7.47	17.79	12.86	13.04	8.70	0.00213	0.00508	0.00368	0.00373	0.00249	PASS
	Extreme (-30℃)		10.82	17.71	10.16	17.11	6.54	0.00309	0.00506	0.00290	0.00489	0.00187	PASS
	25℃	LV	5.76	1.08	14.49	8.84	7.35	0.00164	0.00031	0.00414	0.00253	0.00210	PASS
		HV	1.61	17.29	3.55	13.52	10.22	0.00046	0.00494	0.00101	0.00386	0.00292	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	6.18	11.95	8.78	6.43	5.18	0.00177	0.00342	0.00251	0.00184	0.00148	PASS
	Extreme (50℃)		12.66	7.64	15.23	7.67	3.32	0.00362	0.00218	0.00435	0.00219	0.00095	PASS

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	Extreme (40℃)		12.82	5.46	14.81	3.43	15.82	0.00366	0.00156	0.00423	0.00098	0.00452	PASS
	Extreme (30℃)		6.26	17.01	13.18	5.63	4.72	0.00179	0.00486	0.00377	0.00161	0.00135	PASS
	Extreme (20℃)		1.63	7.25	9.50	11.48	4.17	0.00047	0.00207	0.00272	0.00328	0.00119	PASS
	Extreme (10℃)		17.76	5.71	16.35	9.19	17.05	0.00507	0.00163	0.00467	0.00262	0.00487	PASS
	Extreme (0℃)		11.55	5.79	4.92	6.00	10.50	0.00330	0.00165	0.00141	0.00171	0.00300	PASS
	Extreme (-10℃)		6.55	6.44	5.05	10.67	15.09	0.00187	0.00184	0.00144	0.00305	0.00431	PASS
	Extreme (-20℃)		11.87	4.77	16.81	3.85	5.16	0.00339	0.00136	0.00480	0.00110	0.00147	PASS
	Extreme (-30℃)		7.60	10.98	11.63	6.88	16.92	0.00217	0.00314	0.00332	0.00197	0.00483	PASS
	25℃	LV	12.59	14.02	6.49	17.28	12.28	0.00360	0.00401	0.00185	0.00494	0.00351	PASS
		HV	4.88	3.72	16.29	14.72	5.56	0.00140	0.00106	0.00466	0.00421	0.00159	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	16.32	6.73	13.31	4.89	6.76	0.00466	0.00192	0.00380	0.00140	0.00193	PASS
	Extreme (50℃)		16.44	16.93	6.84	7.74	5.15	0.00470	0.00484	0.00195	0.00221	0.00147	PASS
	Extreme (40℃)		7.28	3.32	4.57	14.35	16.46	0.00208	0.00095	0.00131	0.00410	0.00470	PASS
	Extreme (30℃)		16.34	17.50	17.60	6.87	4.04	0.00467	0.00500	0.00503	0.00196	0.00115	PASS
	Extreme (20℃)		16.43	7.09	8.42	15.44	16.29	0.00470	0.00202	0.00241	0.00441	0.00465	PASS
	Extreme (10℃)		13.66	11.11	6.60	8.73	11.02	0.00390	0.00317	0.00189	0.00249	0.00315	PASS
	Extreme (0℃)		10.01	16.16	8.00	12.68	17.23	0.00286	0.00462	0.00228	0.00362	0.00492	PASS
	Extreme (-10℃)		9.57	7.69	5.42	16.87	13.61	0.00273	0.00220	0.00155	0.00482	0.00389	PASS
	Extreme (-20℃)		4.84	12.93	15.43	17.51	3.13	0.00138	0.00369	0.00441	0.00500	0.00089	PASS
	Extreme (-30℃)		11.90	8.57	3.16	16.03	10.64	0.00340	0.00245	0.00090	0.00458	0.00304	PASS
	25℃	LV	6.91	1.54	16.42	4.40	14.86	0.00197	0.00044	0.00469	0.00126	0.00425	PASS
		HV	13.82	6.42	12.70	7.80	8.20	0.00395	0.00183	0.00363	0.00223	0.00234	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	30MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	4.06	5.97	13.36	8.03	11.73	0.00116	0.00171	0.00382	0.00230	0.00335	PASS
	Extreme (50℃)		11.84	15.81	8.79	17.46	7.34	0.00338	0.00452	0.00251	0.00499	0.00210	PASS
	Extreme (40℃)		15.27	14.44	16.41	13.71	9.83	0.00436	0.00413	0.00469	0.00392	0.00281	PASS
	Extreme (30℃)		5.49	1.77	8.87	15.64	12.22	0.00157	0.00050	0.00253	0.00447	0.00349	PASS
	Extreme (20℃)		2.14	11.18	9.71	8.87	10.96	0.00061	0.00319	0.00277	0.00254	0.00313	PASS
	Extreme (10℃)		6.08	12.75	9.14	8.70	14.08	0.00174	0.00364	0.00261	0.00248	0.00402	PASS
	Extreme (0℃)		7.11	9.13	6.72	9.96	10.53	0.00203	0.00261	0.00192	0.00285	0.00301	PASS
	Extreme (-10℃)		2.59	5.20	1.41	12.49	8.29	0.00074	0.00148	0.00040	0.00357	0.00237	PASS
	Extreme (-20℃)		13.60	14.99	9.65	14.50	3.04	0.00389	0.00428	0.00276	0.00414	0.00087	PASS
	Extreme (-30℃)		10.90	15.48	4.03	12.03	2.65	0.00312	0.00442	0.00115	0.00344	0.00076	PASS
	25℃	LV	7.31	1.75	10.55	15.22	5.28	0.00209	0.00050	0.00302	0.00435	0.00151	PASS
		HV	7.75	4.33	8.85	2.38	13.95	0.00222	0.00124	0.00253	0.00068	0.00398	PASS
NR n77	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict

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(3450-3550)	PC2			(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
		BANDWIDTH	40MHz											
		Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
		Normal (25℃)	Normal	6.48	15.02	1.17	17.33	3.42	0.00185	0.00429	0.00033	0.00495	0.00098	
		Extreme (50℃)		10.36	7.00	10.12	4.00	3.31	0.00296	0.00200	0.00289	0.00114	0.00095	
		Extreme (40℃)		9.18	10.76	13.71	7.49	1.13	0.00262	0.00307	0.00392	0.00214	0.00032	
		Extreme (30℃)		8.83	13.25	2.92	2.15	10.98	0.00252	0.00379	0.00083	0.00061	0.00314	
		Extreme (20℃)		12.01	15.83	15.14	2.74	10.12	0.00343	0.00452	0.00433	0.00078	0.00289	
		Extreme (10℃)		3.31	7.06	17.44	2.44	3.66	0.00095	0.00202	0.00498	0.00070	0.00105	
		Extreme (0℃)		11.49	7.70	7.69	13.05	16.92	0.00328	0.00220	0.00220	0.00373	0.00484	
		Extreme (-10℃)		16.17	15.66	8.71	11.03	17.95	0.00462	0.00447	0.00249	0.00315	0.00513	
		Extreme (-20℃)		6.68	11.87	12.65	4.87	10.18	0.00191	0.00339	0.00361	0.00139	0.00291	
		Extreme (-30℃)		3.65	8.29	14.37	1.14	9.29	0.00104	0.00237	0.00411	0.00032	0.00265	
		25℃	LV	15.59	1.67	13.80	1.10	3.35	0.00445	0.00048	0.00394	0.00031	0.00096	
			HV	11.88	12.96	3.86	3.42	7.33	0.00339	0.00370	0.00110	0.00098	0.00209	

(3450-3550)	NR n77 PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
		BANDWIDTH	50MHz											
		Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
		Normal (25℃)	Normal	15.76	3.73	9.58	6.82	17.42	0.00450	0.00107	0.00274	0.00195	0.00498	
		Extreme (50℃)		16.68	14.03	13.67	11.87	9.09	0.00477	0.00401	0.00391	0.00339	0.00260	
		Extreme (40℃)		6.71	4.80	16.84	1.24	7.02	0.00192	0.00137	0.00481	0.00035	0.00201	
		Extreme (30℃)		7.00	12.58	6.61	6.55	16.23	0.00200	0.00359	0.00189	0.00187	0.00464	
		Extreme (20℃)		16.64	8.58	16.14	4.97	16.88	0.00475	0.00245	0.00461	0.00142	0.00482	
		Extreme (10℃)		13.96	17.53	12.06	7.90	6.41	0.00399	0.00501	0.00345	0.00226	0.00183	
		Extreme (0℃)		11.92	12.58	2.06	13.24	8.00	0.00340	0.00359	0.00059	0.00378	0.00229	
		Extreme (-10℃)		3.94	3.38	11.93	3.73	16.43	0.00113	0.00097	0.00341	0.00107	0.00470	
		Extreme (-20℃)		3.03	7.78	3.04	6.79	6.03	0.00087	0.00222	0.00087	0.00194	0.00172	
		Extreme (-30℃)		11.12	1.61	4.23	5.99	7.60	0.00318	0.00046	0.00121	0.00171	0.00217	
		25℃	LV	12.72	7.35	15.08	10.23	8.37	0.00363	0.00210	0.00431	0.00292	0.00239	
			HV	9.69	17.80	10.68	11.47	1.54	0.00277	0.00509	0.00305	0.00328	0.00044	

(3450-3550)	NR n77 PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
		BANDWIDTH	60MHz											
		Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
		Normal (25℃)	Normal	8.14	4.01	15.84	5.01	13.64	0.00233	0.00115	0.00453	0.00143	0.00390	
		Extreme (50℃)		9.37	13.13	3.01	14.81	10.78	0.00268	0.00375	0.00086	0.00423	0.00308	
		Extreme (40℃)		4.64	11.57	2.08	17.40	3.32	0.00132	0.00331	0.00059	0.00497	0.00095	
		Extreme (30℃)		17.83	5.62	9.35	9.02	1.20	0.00509	0.00161	0.00267	0.00258	0.00034	
		Extreme (20℃)		4.94	11.00	16.45	7.96	15.35	0.00141	0.00314	0.00470	0.00227	0.00439	
		Extreme (10℃)		10.97	12.45	2.23	15.45	11.16	0.00313	0.00356	0.00064	0.00442	0.00319	
		Extreme (0℃)		16.07	10.67	10.62	7.98	3.52	0.00459	0.00305	0.00304	0.00228	0.00101	
		Extreme (-10℃)		9.53	8.88	8.59	10.00	14.91	0.00272	0.00254	0.00246	0.00286	0.00426	

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	Extreme (-20℃)		4.78	8.07	11.76	15.82	16.51	0.00137	0.00231	0.00336	0.00452	0.00472	PASS
	Extreme (-30℃)		7.56	12.93	5.12	15.56	14.83	0.00216	0.00370	0.00146	0.00444	0.00424	PASS
	25℃	LV	2.66	14.10	10.67	6.73	5.16	0.00076	0.00403	0.00305	0.00192	0.00147	PASS
		HV	4.12	14.57	17.02	11.72	7.91	0.00118	0.00416	0.00486	0.00335	0.00226	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	80MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	10.19	11.26	5.61	12.92	15.15	0.00291	0.00322	0.00160	0.00369	0.00433	PASS
	Extreme (50℃)		17.93	1.04	4.85	6.02	8.88	0.00512	0.00030	0.00139	0.00172	0.00254	PASS
	Extreme (40℃)		15.35	9.81	7.48	11.34	14.19	0.00438	0.00280	0.00214	0.00324	0.00405	PASS
	Extreme (30℃)		11.98	2.77	17.30	13.75	9.28	0.00342	0.00079	0.00494	0.00393	0.00265	PASS
	Extreme (20℃)		11.56	13.00	1.11	7.14	3.69	0.00330	0.00371	0.00032	0.00204	0.00105	PASS
	Extreme (10℃)		6.73	4.02	3.63	2.41	9.45	0.00192	0.00115	0.00104	0.00069	0.00270	PASS
	Extreme (0℃)		5.70	4.13	9.69	3.97	15.47	0.00163	0.00118	0.00277	0.00114	0.00442	PASS
	Extreme (-10℃)		11.74	15.34	15.73	5.29	2.79	0.00336	0.00438	0.00449	0.00151	0.00080	PASS
	Extreme (-20℃)		4.90	5.31	15.33	1.02	11.03	0.00140	0.00152	0.00438	0.00029	0.00315	PASS
	Extreme (-30℃)		11.30	12.25	12.75	7.39	15.05	0.00323	0.00350	0.00364	0.00211	0.00430	PASS
	25℃	LV	4.92	13.61	2.60	4.61	13.63	0.00141	0.00389	0.00074	0.00132	0.00389	PASS
		HV	2.32	8.10	10.53	17.49	14.06	0.00066	0.00232	0.00301	0.00500	0.00402	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	90MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	13.47	16.99	10.20	14.84	6.32	0.00385	0.00485	0.00291	0.00424	0.00180	PASS
	Extreme (50℃)		1.52	11.78	11.42	16.52	13.68	0.00044	0.00337	0.00326	0.00472	0.00391	PASS
	Extreme (40℃)		4.96	14.56	16.39	16.13	12.48	0.00142	0.00416	0.00468	0.00461	0.00356	PASS
	Extreme (30℃)		12.20	4.36	13.42	12.07	12.94	0.00348	0.00125	0.00384	0.00345	0.00370	PASS
	Extreme (20℃)		14.25	15.25	7.05	3.04	17.02	0.00407	0.00436	0.00202	0.00087	0.00486	PASS
	Extreme (10℃)		11.09	7.16	5.77	16.63	3.07	0.00317	0.00204	0.00165	0.00475	0.00088	PASS
	Extreme (0℃)		3.07	1.60	1.20	6.12	7.79	0.00088	0.00046	0.00034	0.00175	0.00222	PASS
	Extreme (-10℃)		8.60	13.71	15.23	15.74	14.80	0.00246	0.00392	0.00435	0.00450	0.00423	PASS
	Extreme (-20℃)		17.10	12.90	17.50	14.52	12.94	0.00489	0.00369	0.00500	0.00415	0.00370	PASS
	Extreme (-30℃)		12.75	11.29	4.25	7.59	12.51	0.00364	0.00323	0.00121	0.00217	0.00357	PASS
	25℃	LV	11.44	10.79	11.36	14.25	1.53	0.00327	0.00308	0.00325	0.00407	0.00044	PASS
		HV	2.66	2.83	5.23	6.00	2.09	0.00076	0.00081	0.00149	0.00171	0.00060	PASS
NR n77 (3450-3550) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	100MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	6.46	4.27	8.15	13.11	3.42	0.00184	0.00122	0.00233	0.00375	0.00098	PASS
	Extreme (50℃)		6.40	16.08	1.24	4.29	5.06	0.00183	0.00459	0.00035	0.00123	0.00145	PASS
	Extreme (40℃)		10.67	2.51	1.02	5.43	14.59	0.00305	0.00072	0.00029	0.00155	0.00417	PASS

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	Extreme (30℃)		11.94	13.65	7.22	8.02	12.28	0.00341	0.00390	0.00206	0.00229	0.00351	PASS
	Extreme (20℃)		14.61	12.22	11.89	8.25	2.31	0.00418	0.00349	0.00340	0.00236	0.00066	PASS
	Extreme (10℃)		10.16	15.19	3.29	1.83	17.26	0.00290	0.00434	0.00094	0.00052	0.00493	PASS
	Extreme (0℃)		11.43	14.76	6.61	8.40	3.69	0.00327	0.00422	0.00189	0.00240	0.00106	PASS
	Extreme (-10℃)		6.37	11.69	11.00	3.50	14.94	0.00182	0.00334	0.00314	0.00100	0.00427	PASS
	Extreme (-20℃)		8.96	8.61	17.75	13.85	2.65	0.00256	0.00246	0.00507	0.00396	0.00076	PASS
	Extreme (-30℃)		3.84	9.22	5.85	5.04	9.54	0.00110	0.00263	0.00167	0.00144	0.00273	PASS
	25℃	LV	5.88	12.11	9.27	4.56	8.20	0.00168	0.00346	0.00265	0.00130	0.00234	PASS
	HV	8.01	13.72	9.86	7.03	10.85	0.00229	0.00392	0.00282	0.00201	0.00310	PASS	
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	4.84	8.74	1.30	8.86	9.10	0.00138	0.00250	0.00037	0.00253	0.00260	PASS
	Extreme (50℃)		11.28	7.07	12.28	2.24	5.21	0.00322	0.00202	0.00351	0.00064	0.00149	PASS
	Extreme (40℃)		6.35	13.35	9.67	6.96	5.11	0.00182	0.00381	0.00276	0.00199	0.00146	PASS
	Extreme (30℃)		10.78	11.04	13.55	11.11	10.74	0.00308	0.00315	0.00387	0.00317	0.00307	PASS
	Extreme (20℃)		7.28	12.28	1.38	2.95	17.74	0.00208	0.00351	0.00040	0.00084	0.00507	PASS
	Extreme (10℃)		16.39	11.43	8.88	5.53	6.92	0.00468	0.00327	0.00254	0.00158	0.00198	PASS
	Extreme (0℃)		11.66	15.28	14.71	15.66	2.99	0.00333	0.00436	0.00420	0.00447	0.00086	PASS
	Extreme (-10℃)		7.28	5.87	4.33	4.84	10.53	0.00208	0.00168	0.00124	0.00138	0.00301	PASS
	Extreme (-20℃)		4.76	7.37	12.39	9.93	16.97	0.00136	0.00210	0.00354	0.00284	0.00485	PASS
	Extreme (-30℃)		4.97	14.60	1.12	3.79	2.89	0.00142	0.00417	0.00032	0.00108	0.00082	PASS
	25℃	LV	12.56	13.46	10.24	13.81	11.87	0.00359	0.00384	0.00293	0.00395	0.00339	PASS
		HV	5.59	17.38	17.72	4.26	9.56	0.00160	0.00497	0.00506	0.00122	0.00273	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	6.23	5.37	5.21	9.34	12.30	0.00178	0.00154	0.00149	0.00267	0.00351	PASS
	Extreme (50℃)		13.74	9.30	1.37	5.71	2.02	0.00392	0.00266	0.00039	0.00163	0.00058	PASS
	Extreme (40℃)		11.44	4.90	12.88	10.80	12.28	0.00327	0.00140	0.00368	0.00309	0.00351	PASS
	Extreme (30℃)		11.51	3.65	4.93	3.03	4.38	0.00329	0.00104	0.00141	0.00087	0.00125	PASS
	Extreme (20℃)		13.27	10.97	5.49	3.73	2.14	0.00379	0.00313	0.00157	0.00107	0.00061	PASS
	Extreme (10℃)		7.75	1.29	11.86	9.54	15.59	0.00222	0.00037	0.00339	0.00273	0.00445	PASS
	Extreme (0℃)		10.34	3.29	11.10	1.19	9.75	0.00295	0.00094	0.00317	0.00034	0.00279	PASS
	Extreme (-10℃)		5.97	12.28	15.56	14.20	6.10	0.00170	0.00351	0.00445	0.00406	0.00174	PASS
	Extreme (-20℃)		1.16	1.52	9.49	1.35	16.98	0.00033	0.00043	0.00271	0.00039	0.00485	PASS
	Extreme (-30℃)		4.99	8.24	10.56	3.33	17.30	0.00142	0.00235	0.00302	0.00095	0.00494	PASS
	25℃	LV	13.41	3.89	9.27	1.66	4.66	0.00383	0.00111	0.00265	0.00048	0.00133	PASS
		HV	17.16	8.81	6.98	7.58	6.61	0.00490	0.00252	0.00199	0.00216	0.00189	PASS
NR n77 (3700-3980)	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Verdict

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PC2	BANDWIDTH	20MHz						(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	5.23	1.28	11.58	6.07	13.69	0.00149	0.00037	0.00331	0.00174	0.00391	PASS
	Extreme (50℃)		12.67	14.89	11.92	13.41	10.25	0.00362	0.00426	0.00340	0.00383	0.00293	PASS
	Extreme (40℃)		10.44	14.93	1.20	1.10	13.56	0.00298	0.00426	0.00034	0.00031	0.00387	PASS
	Extreme (30℃)		10.99	10.90	3.63	14.07	9.74	0.00314	0.00312	0.00104	0.00402	0.00278	PASS
	Extreme (20℃)		9.64	12.12	10.36	3.66	16.62	0.00275	0.00346	0.00296	0.00105	0.00475	PASS
	Extreme (10℃)		17.95	5.42	8.55	11.45	17.25	0.00513	0.00155	0.00244	0.00327	0.00493	PASS
	Extreme (0℃)		17.69	7.47	7.50	7.13	7.22	0.00505	0.00213	0.00214	0.00204	0.00206	PASS
	Extreme (-10℃)		4.76	15.42	12.20	14.26	4.76	0.00136	0.00440	0.00349	0.00407	0.00136	PASS
	Extreme (-20℃)		8.78	14.84	2.68	14.01	3.20	0.00251	0.00424	0.00076	0.00400	0.00091	PASS
	Extreme (-30℃)		7.62	1.23	3.80	4.57	14.29	0.00218	0.00035	0.00109	0.00131	0.00408	PASS
	25℃	LV	3.37	6.32	11.73	13.21	16.31	0.00096	0.00180	0.00335	0.00377	0.00466	PASS
		HV	17.81	11.39	6.54	16.37	5.96	0.00509	0.00326	0.00187	0.00468	0.00170	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	30MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	9.07	10.10	11.25	6.70	11.53	0.00259	0.00288	0.00321	0.00191	0.00329	PASS
	Extreme (50℃)		4.98	9.70	1.77	10.42	13.22	0.00142	0.00277	0.00050	0.00298	0.00378	PASS
	Extreme (40℃)		3.62	8.74	5.53	10.06	1.67	0.00103	0.00250	0.00158	0.00288	0.00048	PASS
	Extreme (30℃)		4.05	14.92	13.70	14.57	15.88	0.00116	0.00426	0.00391	0.00416	0.00454	PASS
	Extreme (20℃)		12.12	8.01	12.40	15.63	4.94	0.00346	0.00229	0.00354	0.00447	0.00141	PASS
	Extreme (10℃)		6.04	14.24	16.04	6.81	15.96	0.00173	0.00407	0.00458	0.00194	0.00456	PASS
	Extreme (0℃)		8.31	2.53	6.46	8.45	3.23	0.00237	0.00072	0.00185	0.00241	0.00092	PASS
	Extreme (-10℃)		3.04	3.87	4.55	11.26	2.95	0.00087	0.00111	0.00130	0.00322	0.00084	PASS
	Extreme (-20℃)		7.43	6.96	9.87	13.70	3.47	0.00212	0.00199	0.00282	0.00392	0.00099	PASS
	Extreme (-30℃)		4.67	12.76	16.29	6.28	14.17	0.00133	0.00365	0.00465	0.00179	0.00405	PASS
	25℃	LV	3.60	5.70	2.00	9.00	1.93	0.00103	0.00163	0.00057	0.00257	0.00055	PASS
		HV	12.36	3.53	12.70	11.35	5.16	0.00353	0.00101	0.00363	0.00324	0.00148	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	40MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	8.25	8.29	10.37	12.11	10.23	0.00236	0.00237	0.00296	0.00346	0.00292	PASS
	Extreme (50℃)		16.78	7.25	10.94	15.42	7.47	0.00480	0.00207	0.00313	0.00441	0.00213	PASS
	Extreme (40℃)		15.96	13.31	8.88	12.06	4.40	0.00456	0.00380	0.00254	0.00345	0.00126	PASS
	Extreme (30℃)		9.75	17.92	17.45	10.08	17.89	0.00279	0.00512	0.00498	0.00288	0.00511	PASS
	Extreme (20℃)		6.11	13.69	7.55	10.09	5.27	0.00174	0.00391	0.00216	0.00288	0.00150	PASS
	Extreme (10℃)		2.09	5.10	2.86	3.82	14.81	0.00060	0.00146	0.00082	0.00109	0.00423	PASS
	Extreme (0℃)		10.63	5.74	13.34	11.42	8.09	0.00304	0.00164	0.00381	0.00326	0.00231	PASS
	Extreme (-10℃)		6.59	7.47	6.68	15.25	15.51	0.00188	0.00213	0.00191	0.00436	0.00443	PASS
	Extreme (-20℃)		5.07	4.38	12.75	1.61	11.10	0.00145	0.00125	0.00364	0.00046	0.00317	PASS

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	Extreme (-30℃)		6.40	8.41	11.26	13.16	2.50	0.00183	0.00240	0.00322	0.00376	0.00072	PASS
	25℃	LV	12.25	5.28	4.37	14.50	2.87	0.00350	0.00151	0.00125	0.00414	0.00082	PASS
		HV	11.83	4.72	2.72	6.32	16.42	0.00338	0.00135	0.00078	0.00181	0.00469	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	50MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	3.44	8.20	5.52	8.55	16.27	0.00098	0.00234	0.00158	0.00244	0.00465	PASS
	Extreme (50℃)		15.10	7.61	2.45	7.41	14.33	0.00431	0.00217	0.00070	0.00212	0.00410	PASS
	Extreme (40℃)		12.98	9.82	16.85	10.86	11.90	0.00371	0.00280	0.00481	0.00310	0.00340	PASS
	Extreme (30℃)		13.45	2.29	12.59	10.44	15.15	0.00384	0.00065	0.00360	0.00298	0.00433	PASS
	Extreme (20℃)		16.04	17.79	13.87	17.88	8.50	0.00458	0.00508	0.00396	0.00511	0.00243	PASS
	Extreme (10℃)		11.49	12.14	10.37	9.18	12.27	0.00328	0.00347	0.00296	0.00262	0.00351	PASS
	Extreme (0℃)		13.49	5.12	11.19	3.80	5.33	0.00385	0.00146	0.00320	0.00109	0.00152	PASS
	Extreme (-10℃)		8.99	11.43	4.95	17.30	1.45	0.00257	0.00327	0.00142	0.00494	0.00042	PASS
	Extreme (-20℃)		4.86	14.38	3.51	2.39	15.10	0.00139	0.00411	0.00100	0.00068	0.00432	PASS
	Extreme (-30℃)		10.25	1.94	15.72	2.18	2.92	0.00293	0.00055	0.00449	0.00062	0.00083	PASS
	25℃	LV	5.63	10.93	8.68	3.38	15.47	0.00161	0.00312	0.00248	0.00097	0.00442	PASS
		HV	6.57	17.75	6.99	6.67	17.74	0.00188	0.00507	0.00200	0.00191	0.00507	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	60MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	12.33	10.53	5.51	10.40	1.83	0.00352	0.00301	0.00158	0.00297	0.00052	PASS
	Extreme (50℃)		7.64	12.60	2.67	10.54	15.64	0.00218	0.00360	0.00076	0.00301	0.00447	PASS
	Extreme (40℃)		4.64	6.09	3.82	7.12	14.80	0.00133	0.00174	0.00109	0.00203	0.00423	PASS
	Extreme (30℃)		14.12	10.89	4.56	5.48	14.12	0.00404	0.00311	0.00130	0.00157	0.00404	PASS
	Extreme (20℃)		13.34	3.69	15.47	6.29	5.30	0.00381	0.00105	0.00442	0.00180	0.00152	PASS
	Extreme (10℃)		7.58	4.48	17.51	4.82	13.44	0.00216	0.00128	0.00500	0.00138	0.00384	PASS
	Extreme (0℃)		17.20	10.73	4.00	15.35	5.94	0.00491	0.00307	0.00114	0.00439	0.00170	PASS
	Extreme (-10℃)		10.71	4.18	3.76	11.25	3.75	0.00306	0.00119	0.00107	0.00322	0.00107	PASS
	Extreme (-20℃)		4.44	5.68	7.28	4.49	12.94	0.00127	0.00162	0.00208	0.00128	0.00370	PASS
	Extreme (-30℃)		3.03	2.80	16.11	11.79	5.05	0.00087	0.00080	0.00460	0.00337	0.00144	PASS
	25℃	LV	8.70	5.75	6.87	6.15	3.55	0.00249	0.00164	0.00196	0.00176	0.00101	PASS
		HV	5.64	17.74	7.60	6.86	3.65	0.00161	0.00507	0.00217	0.00196	0.00104	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	80MHz											
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	10.03	15.27	7.53	17.99	4.78	0.00286	0.00436	0.00215	0.00514	0.00137	PASS
	Extreme (50℃)		13.07	1.99	4.74	3.08	1.48	0.00373	0.00057	0.00135	0.00088	0.00042	PASS
	Extreme (40℃)		5.01	10.53	15.98	2.66	8.49	0.00143	0.00301	0.00457	0.00076	0.00243	PASS
	Extreme (30℃)		8.36	3.28	17.68	12.39	10.64	0.00239	0.00094	0.00505	0.00354	0.00304	PASS

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	Extreme (20℃)		6.84	7.06	8.70	4.96	13.06	0.00195	0.00202	0.00249	0.00142	0.00373	PASS
	Extreme (10℃)		14.67	16.08	14.43	7.28	2.44	0.00419	0.00459	0.00412	0.00208	0.00070	PASS
	Extreme (0℃)		13.74	13.08	7.92	3.68	4.20	0.00393	0.00374	0.00226	0.00105	0.00120	PASS
	Extreme (-10℃)		11.78	2.86	1.66	5.53	12.87	0.00337	0.00082	0.00047	0.00158	0.00368	PASS
	Extreme (-20℃)		12.94	11.39	7.43	14.00	5.17	0.00370	0.00325	0.00212	0.00400	0.00148	PASS
	Extreme (-30℃)		6.79	15.31	11.01	9.41	5.11	0.00194	0.00437	0.00315	0.00269	0.00146	PASS
	25℃	LV	3.24	9.16	17.39	13.27	2.13	0.00092	0.00262	0.00497	0.00379	0.00061	PASS
		HV	5.40	5.19	15.77	3.25	14.50	0.00154	0.00148	0.00451	0.00093	0.00414	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
	BANDWIDTH	90MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	14.38	15.11	2.46	16.13	8.56	0.00411	0.00432	0.00070	0.00461	0.00245	PASS
	Extreme (50℃)		9.02	13.72	17.76	10.07	4.68	0.00258	0.00392	0.00508	0.00288	0.00134	PASS
	Extreme (40℃)		13.18	9.30	12.13	8.03	3.44	0.00377	0.00266	0.00347	0.00229	0.00098	PASS
	Extreme (30℃)		11.71	1.94	1.17	3.85	8.86	0.00335	0.00055	0.00033	0.00110	0.00253	PASS
	Extreme (20℃)		14.73	4.13	15.20	6.07	1.96	0.00421	0.00118	0.00434	0.00174	0.00056	PASS
	Extreme (10℃)		7.36	5.90	11.69	5.66	5.75	0.00210	0.00169	0.00334	0.00162	0.00164	PASS
	Extreme (0℃)		2.00	5.42	16.31	12.34	1.17	0.00057	0.00155	0.00466	0.00353	0.00033	PASS
	Extreme (-10℃)		2.32	14.30	2.82	10.32	6.67	0.00066	0.00409	0.00081	0.00295	0.00191	PASS
	Extreme (-20℃)		12.95	10.48	3.84	14.80	4.51	0.00370	0.00299	0.00110	0.00423	0.00129	PASS
	Extreme (-30℃)		2.72	13.70	9.55	4.45	10.88	0.00078	0.00391	0.00273	0.00127	0.00311	PASS
	25℃	LV	9.09	2.88	15.81	15.84	1.86	0.00260	0.00082	0.00452	0.00452	0.00053	PASS
		HV	7.51	12.45	2.08	2.51	3.39	0.00215	0.00356	0.00059	0.00072	0.00097	PASS
NR n77 (3700-3980) PC2	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
	BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
	Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	9.00	12.96	16.28	10.95	15.08	0.00257	0.00370	0.00465	0.00313	0.00431	PASS
	Extreme (50℃)		12.47	14.19	17.98	8.79	16.72	0.00356	0.00406	0.00514	0.00251	0.00478	PASS
	Extreme (40℃)		6.74	14.57	3.36	16.54	7.25	0.00193	0.00416	0.00096	0.00473	0.00207	PASS
	Extreme (30℃)		4.28	3.87	8.17	10.80	12.08	0.00122	0.00111	0.00233	0.00308	0.00345	PASS
	Extreme (20℃)		11.40	1.45	11.58	8.14	9.68	0.00326	0.00042	0.00331	0.00232	0.00277	PASS
	Extreme (10℃)		14.24	1.30	4.16	8.94	2.06	0.00407	0.00037	0.00119	0.00256	0.00059	PASS
	Extreme (0℃)		8.01	1.86	1.63	4.92	1.96	0.00229	0.00053	0.00047	0.00140	0.00056	PASS
	Extreme (-10℃)		10.53	6.12	3.65	9.83	8.39	0.00301	0.00175	0.00104	0.00281	0.00240	PASS
	Extreme (-20℃)		7.91	12.60	1.71	17.37	16.20	0.00226	0.00360	0.00049	0.00496	0.00463	PASS
	Extreme (-30℃)		7.51	2.00	10.86	4.28	16.61	0.00215	0.00057	0.00310	0.00122	0.00474	PASS
	25℃	LV	4.47	17.43	14.43	3.84	5.04	0.00128	0.00498	0.00412	0.00110	0.00144	PASS
		HV	7.31	12.44	17.59	15.81	10.61	0.00209	0.00355	0.00503	0.00452	0.00303	PASS