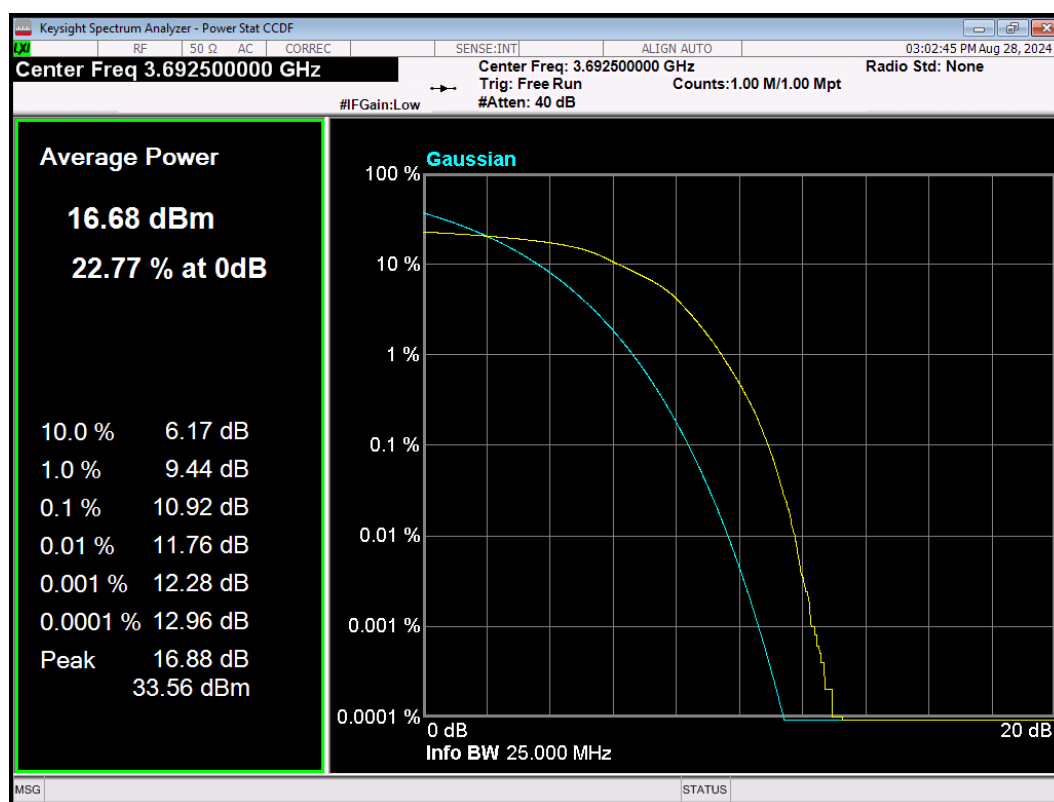
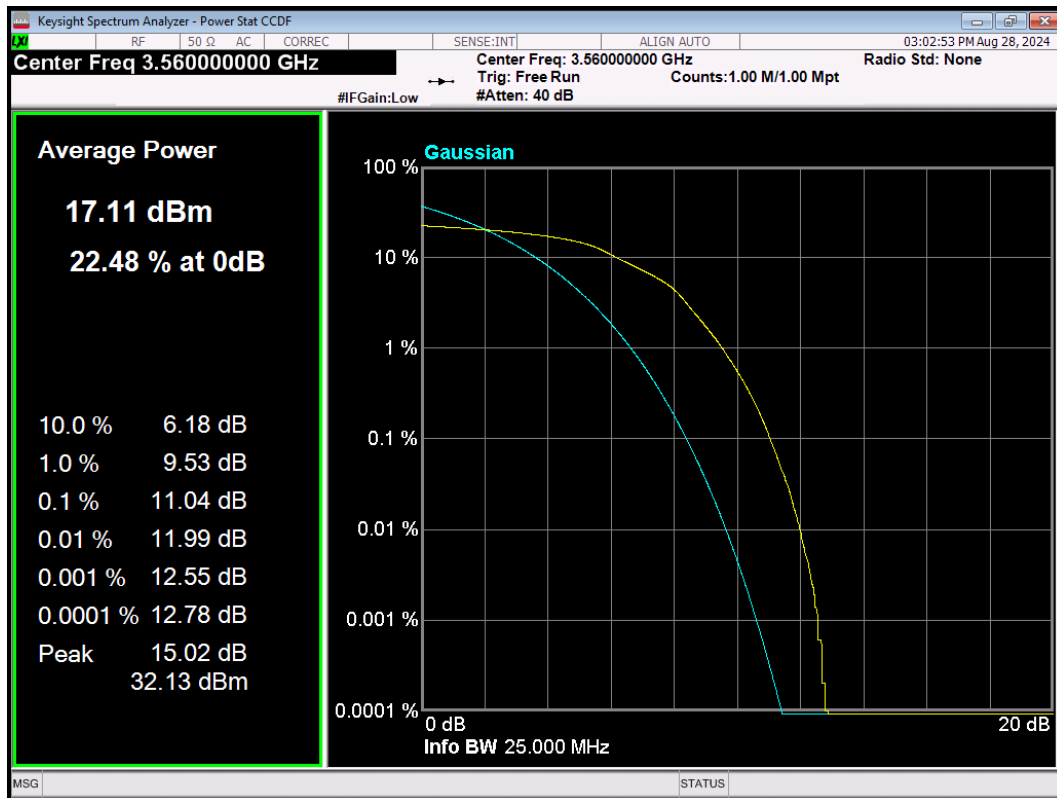




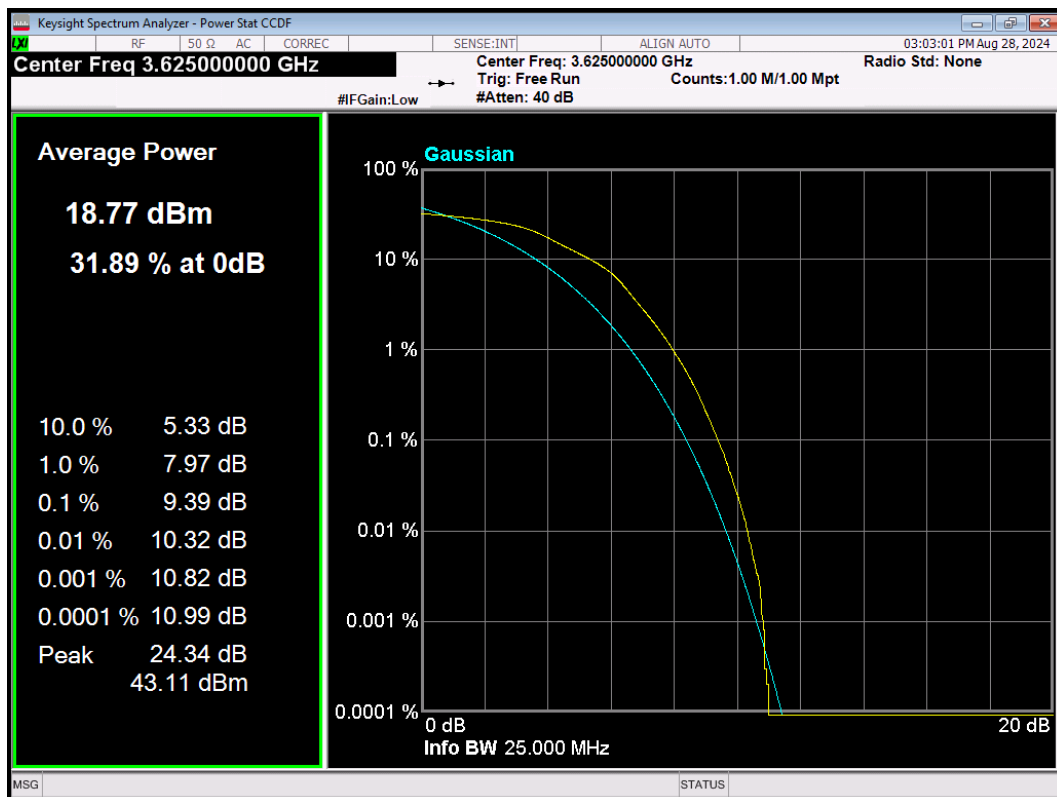
LTE Band 48 16QAM BW=15MHz Channel=55990 RB Size=75 Position=#0



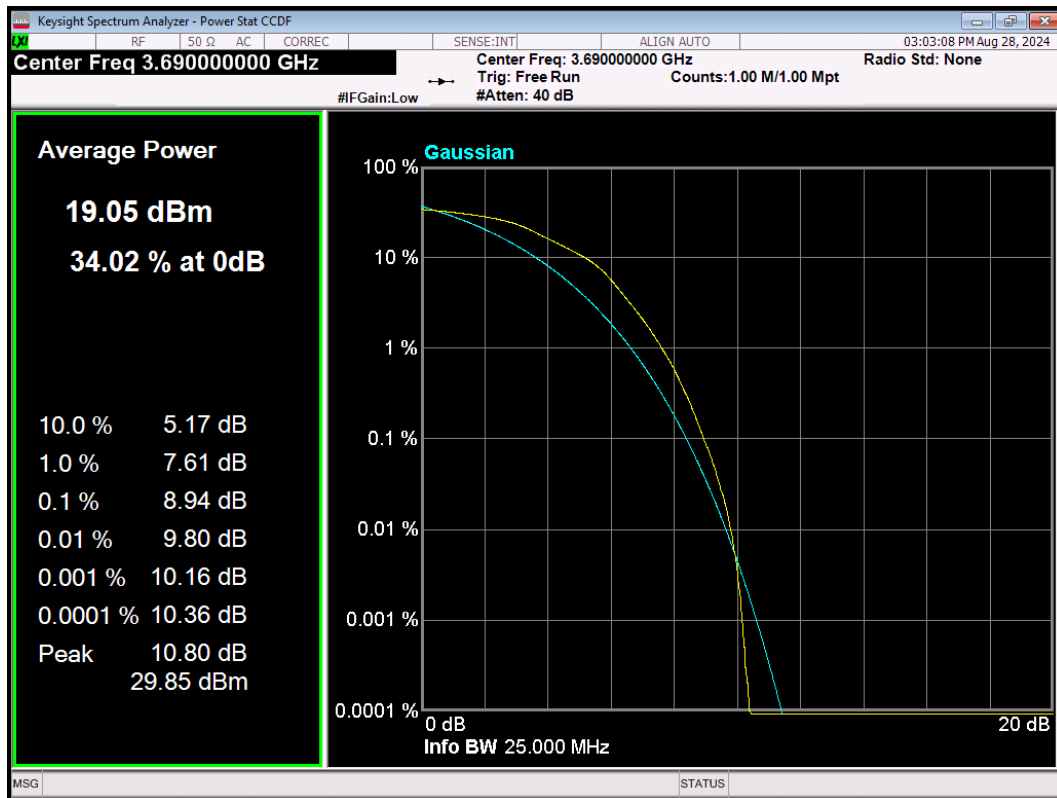
LTE Band 48 16QAM BW=15MHz Channel=56665 RB Size=75 Position=#0



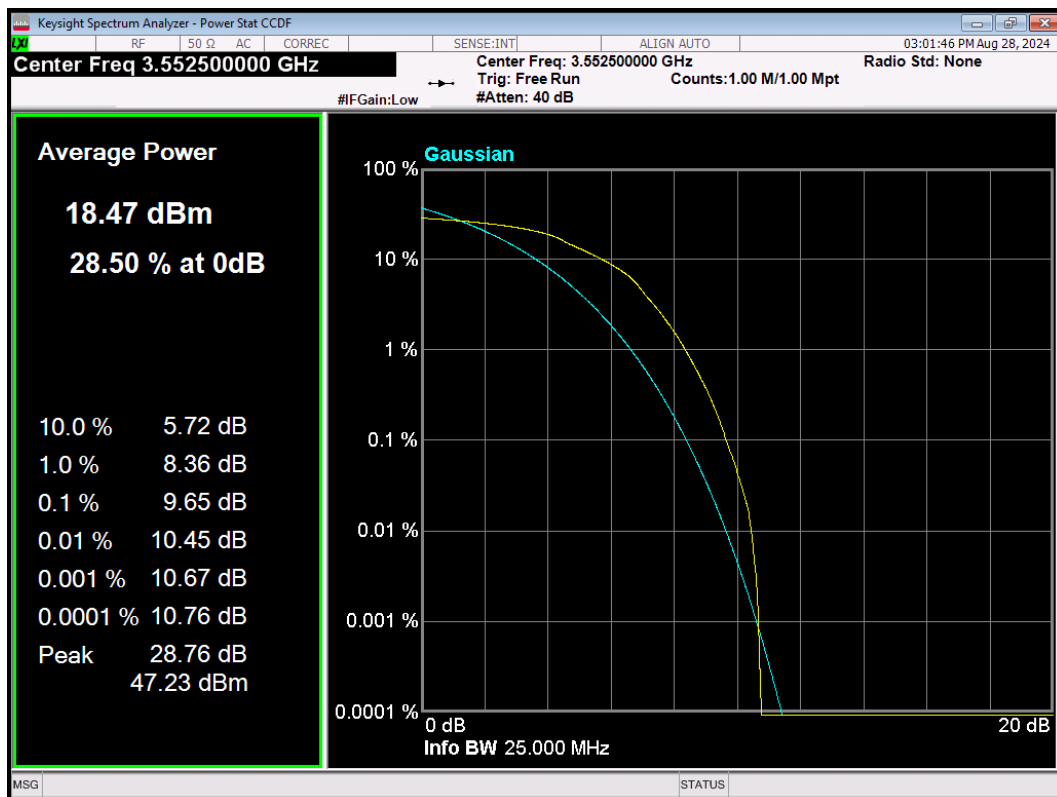
LTE Band 48 16QAM BW=20MHz Channel=55340 RB Size=100 Position=#0



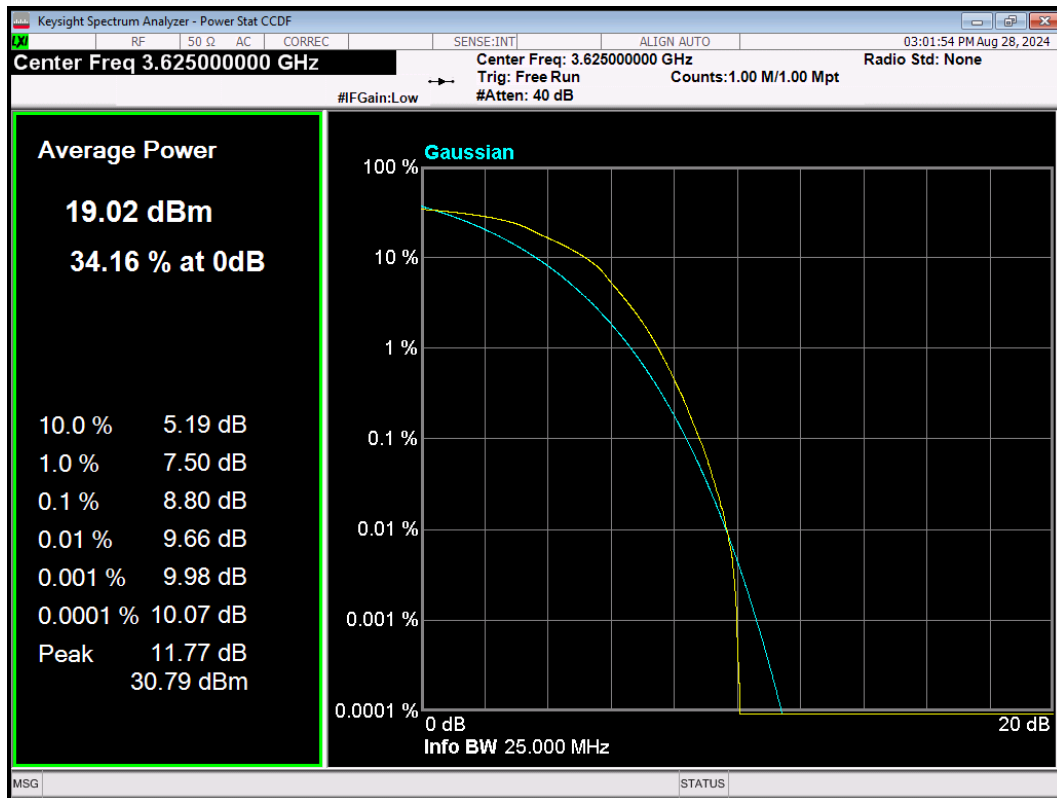
LTE Band 48 16QAM BW=20MHz Channel=55990 RB Size=100 Position=#0



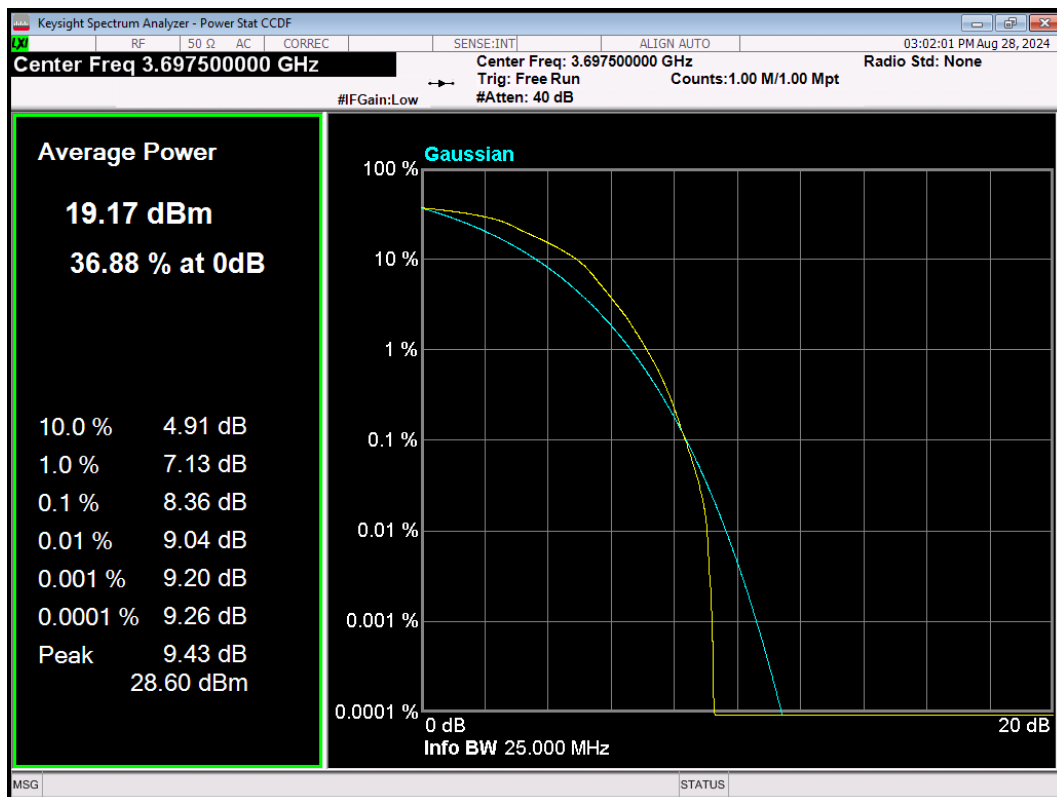
LTE Band 48 16QAM BW=20MHz Channel=56640 RB Size=100 Position=#0



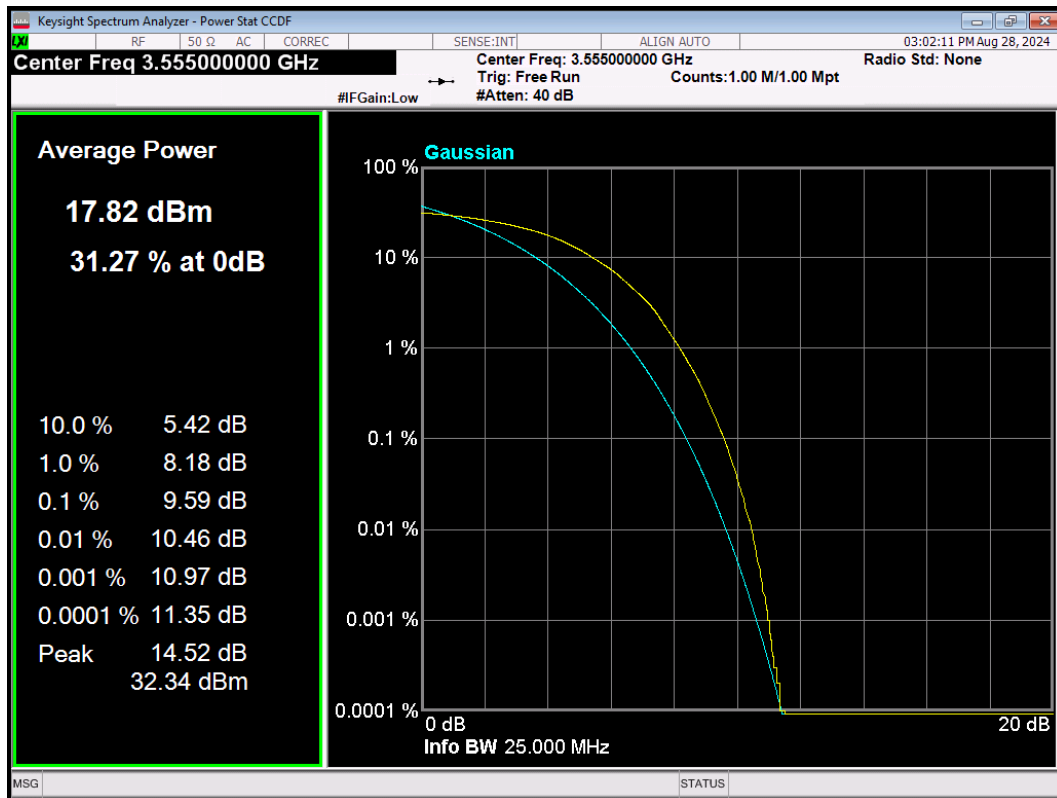
LTE Band 48 16QAM BW=5MHz Channel=55265 RB Size=25 Position=#0



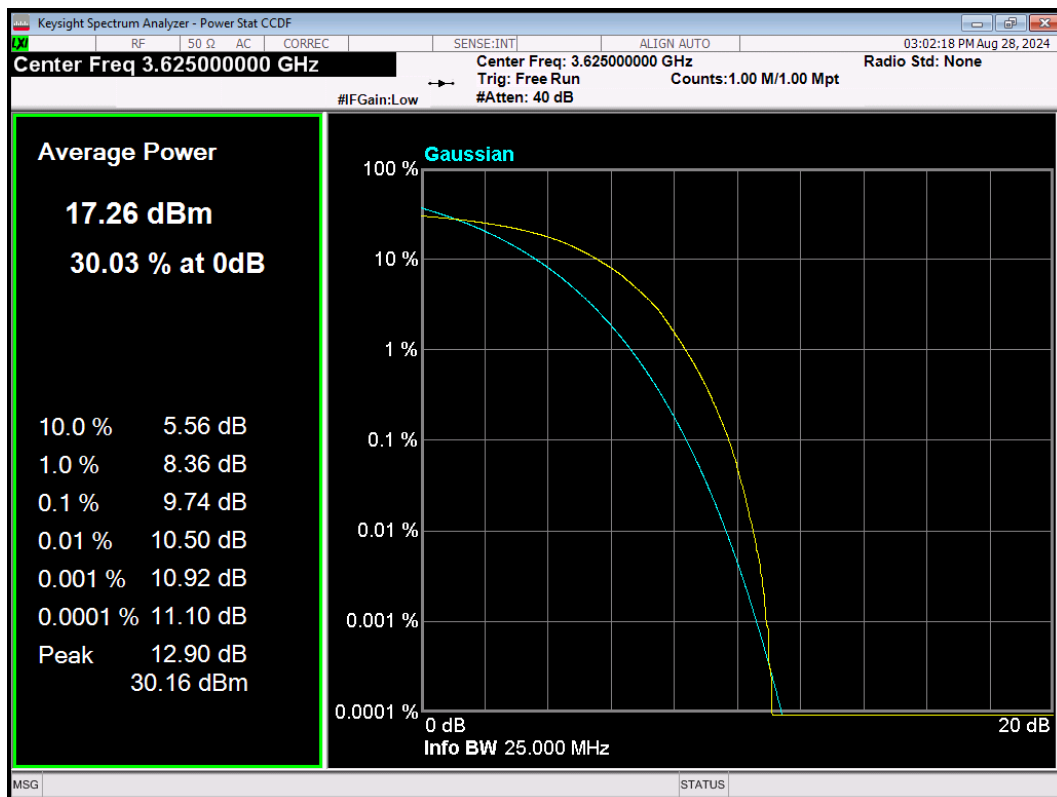
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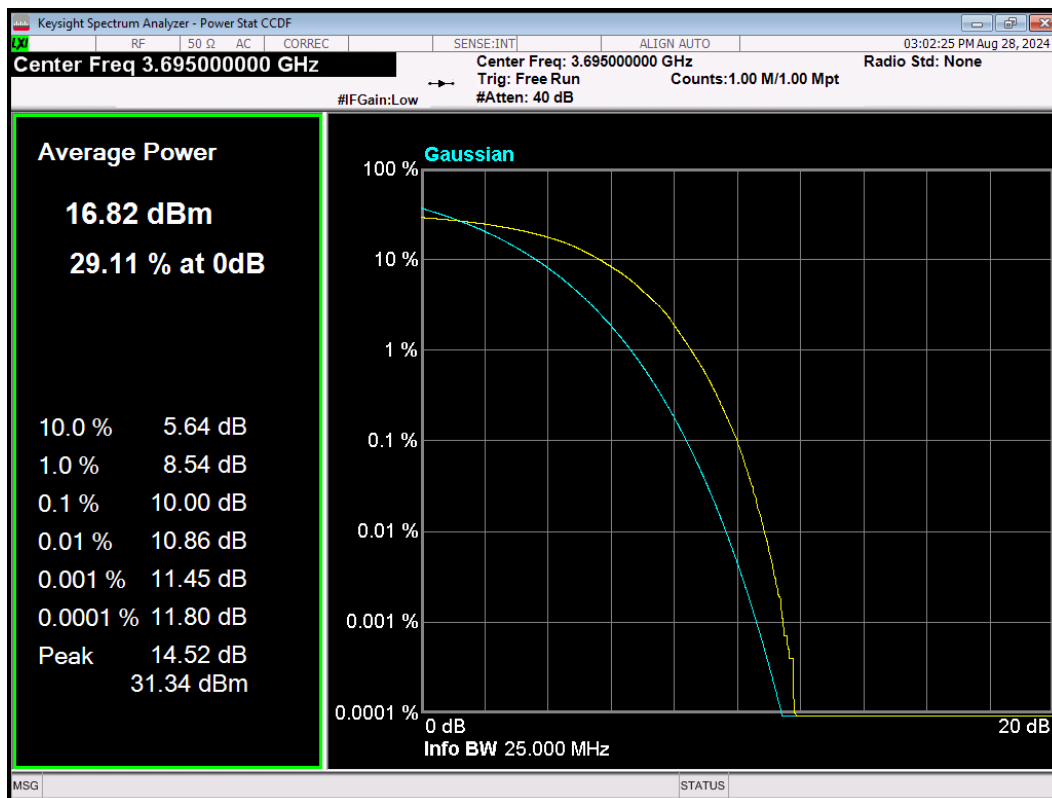
LTE Band 48 16QAM BW=5MHz Channel=56715 RB Size=25 Position=#0



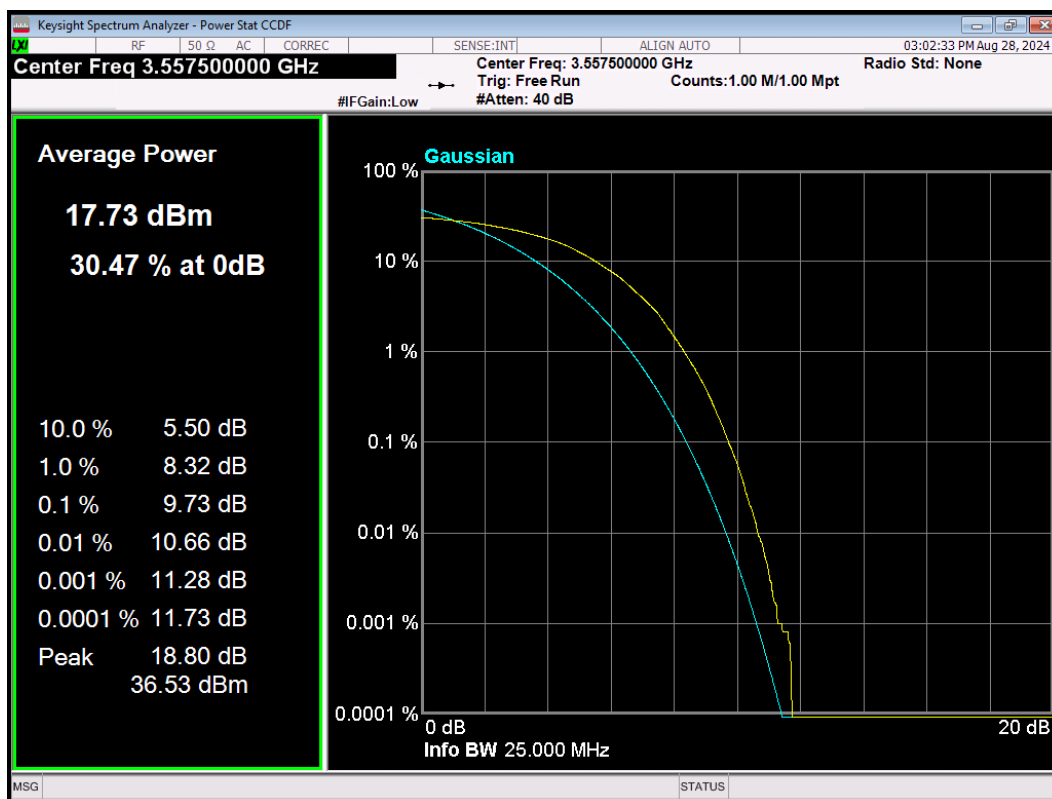
LTE Band 48 64QAM BW=10MHz Channel=55290 RB Size=50 Position=#0



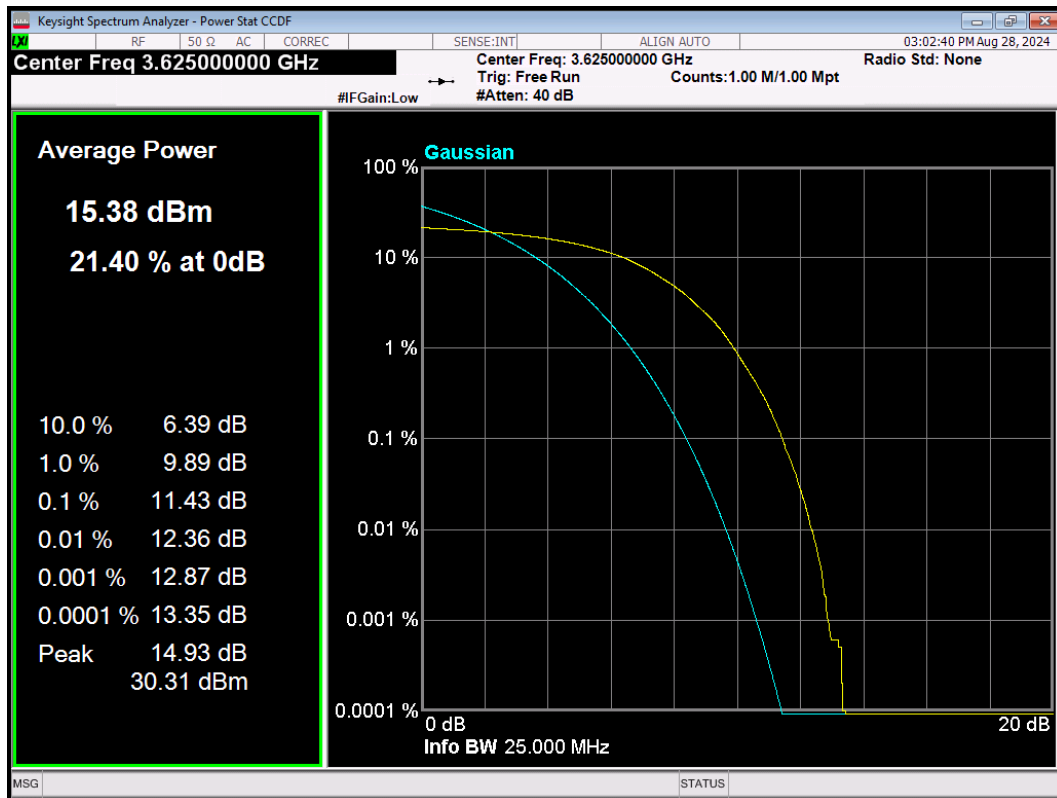
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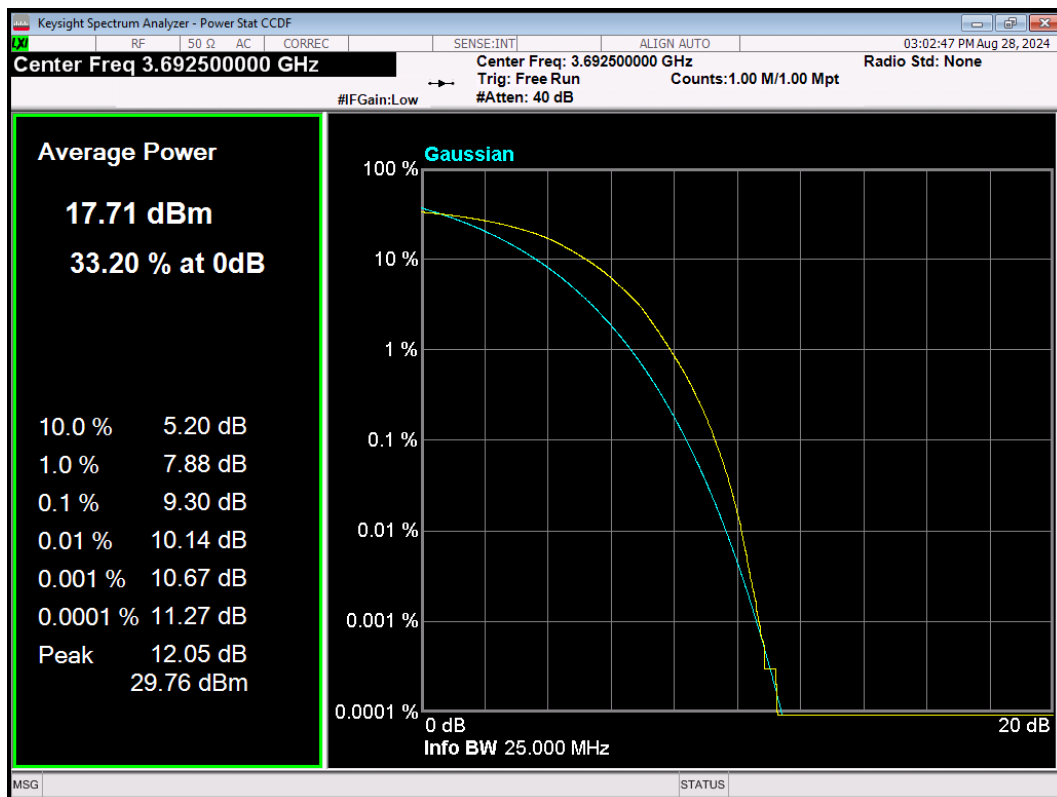
LTE Band 48 64QAM BW=10MHz Channel=56690 RB Size=50 Position=#0



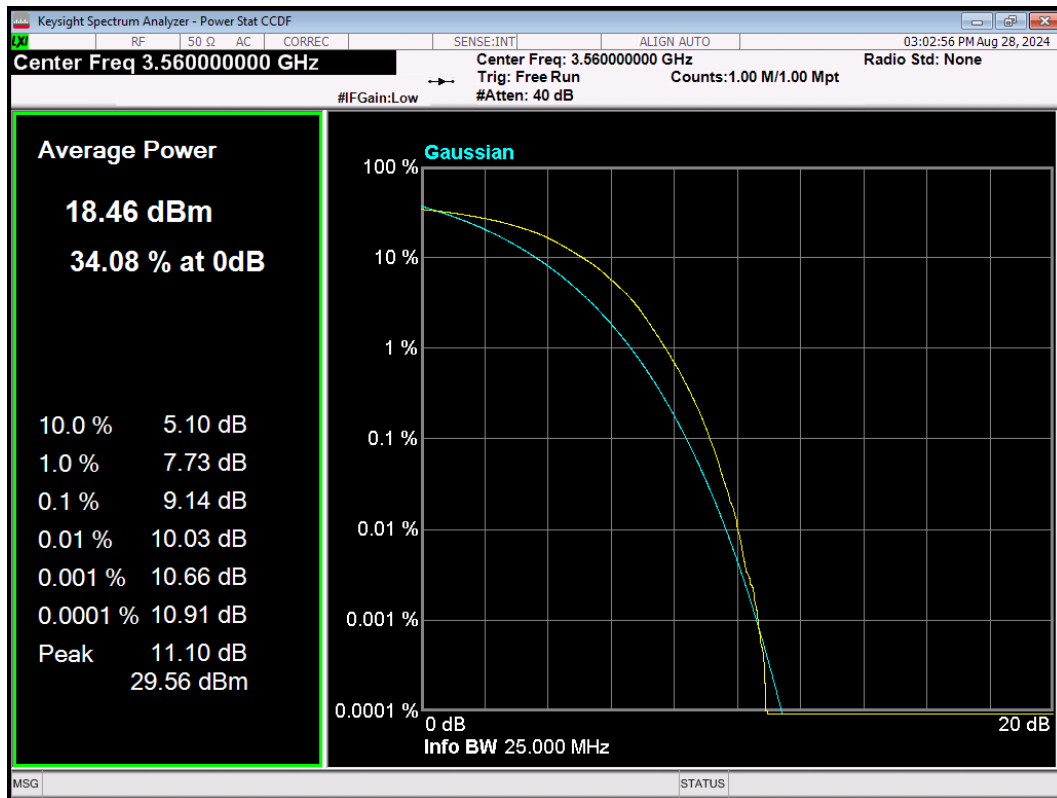
LTE Band 48 64QAM BW=15MHz Channel=55315 RB Size=75 Position=#0



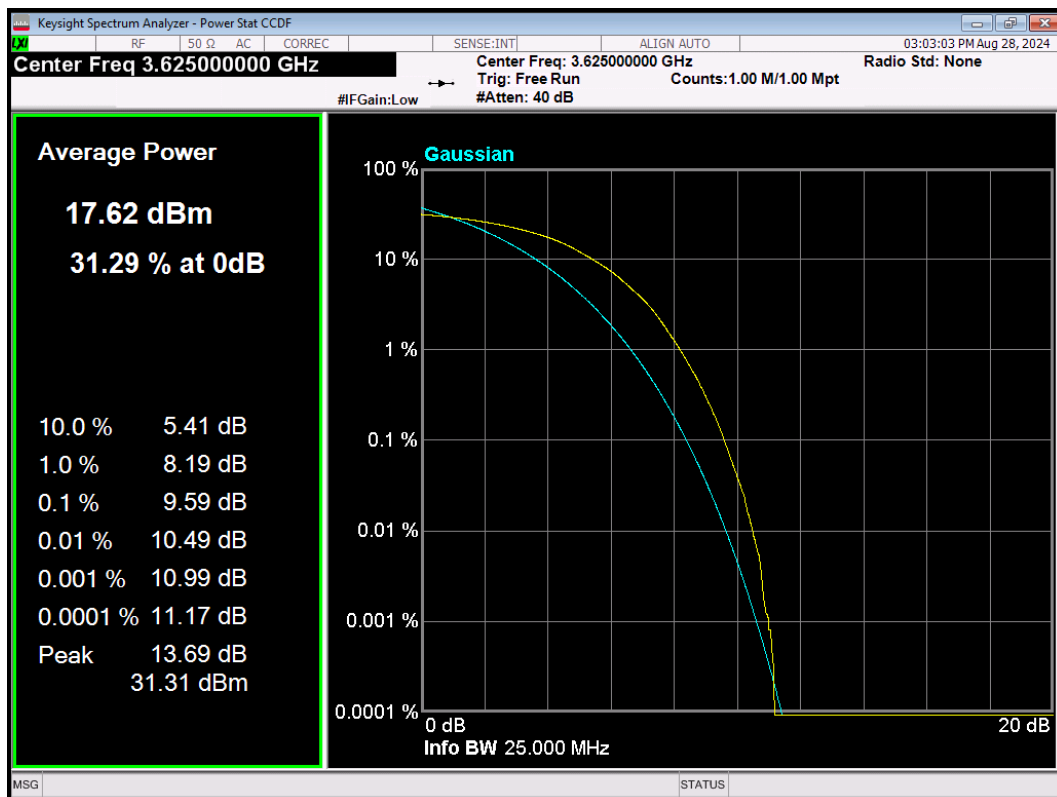
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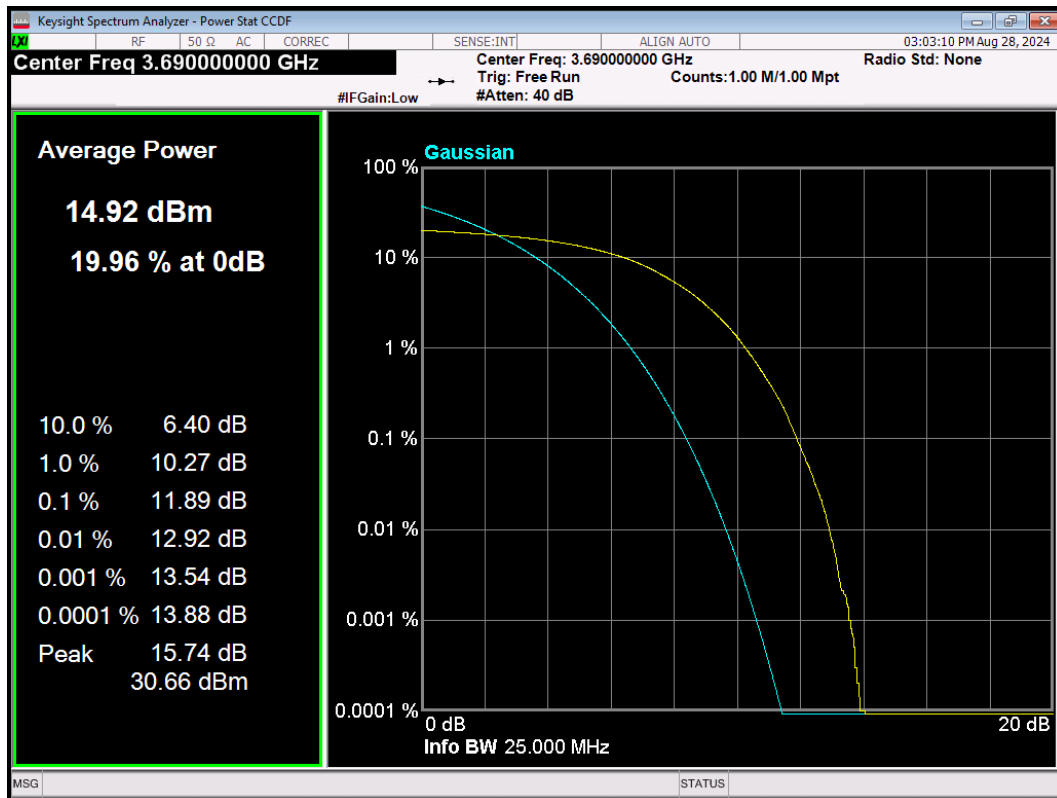
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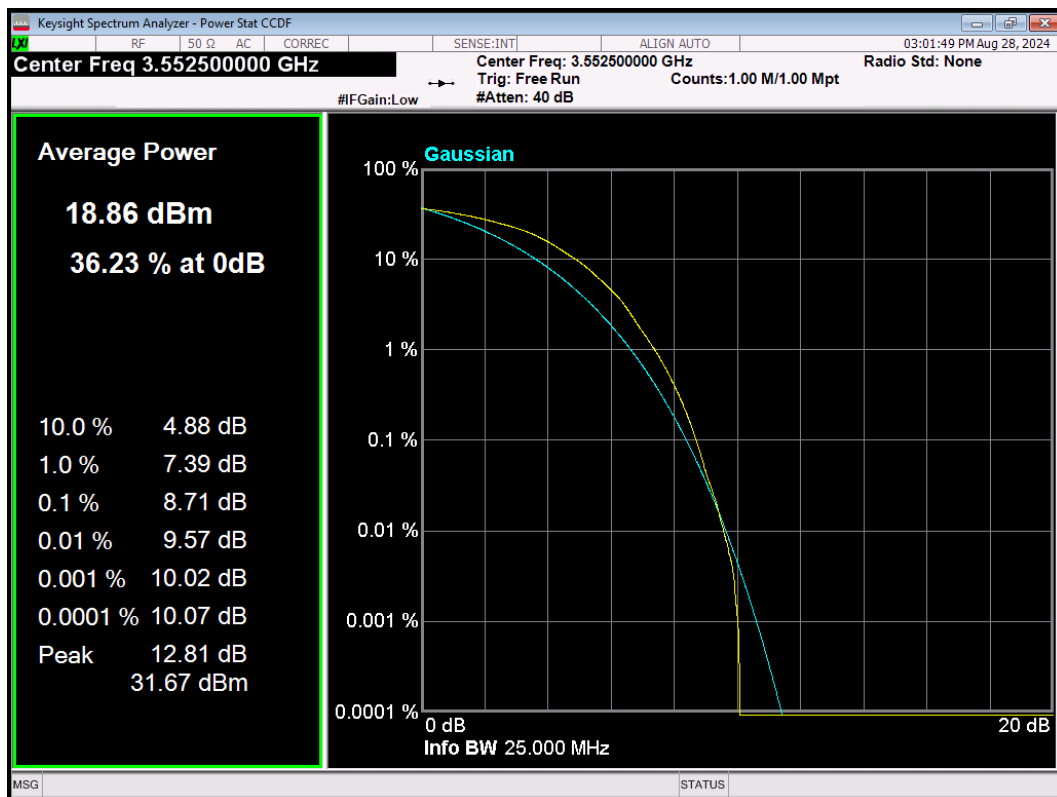
LTE Band 48 64QAM BW=20MHz Channel=55340 RB Size=100 Position=#0



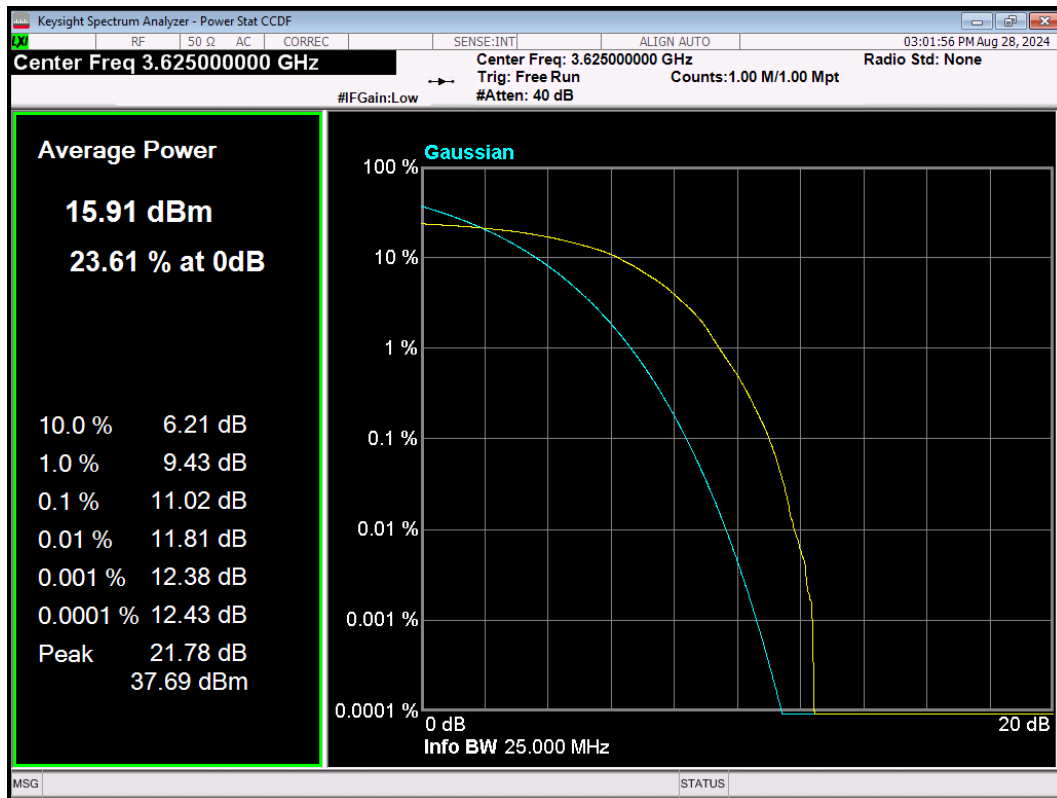
LTE Band 48 64QAM BW=20MHz Channel=55990 RB Size=100 Position=#0



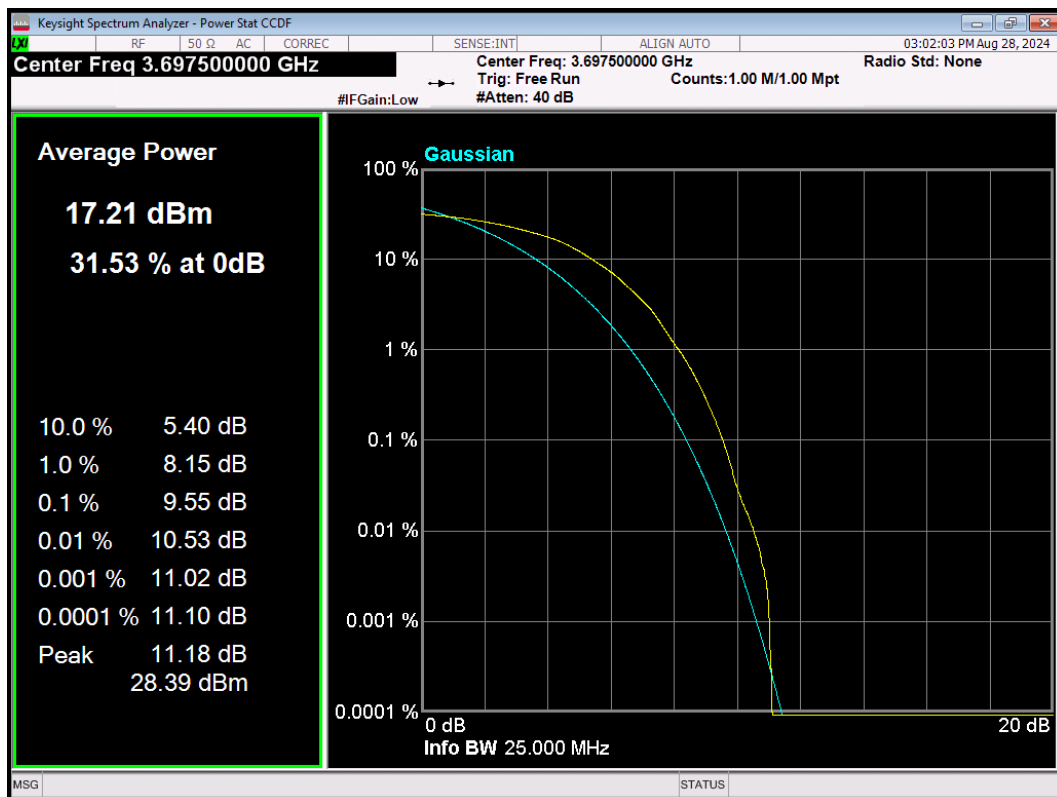
LTE Band 48 64QAM BW=20MHz Channel=56640 RB Size=100 Position=#0



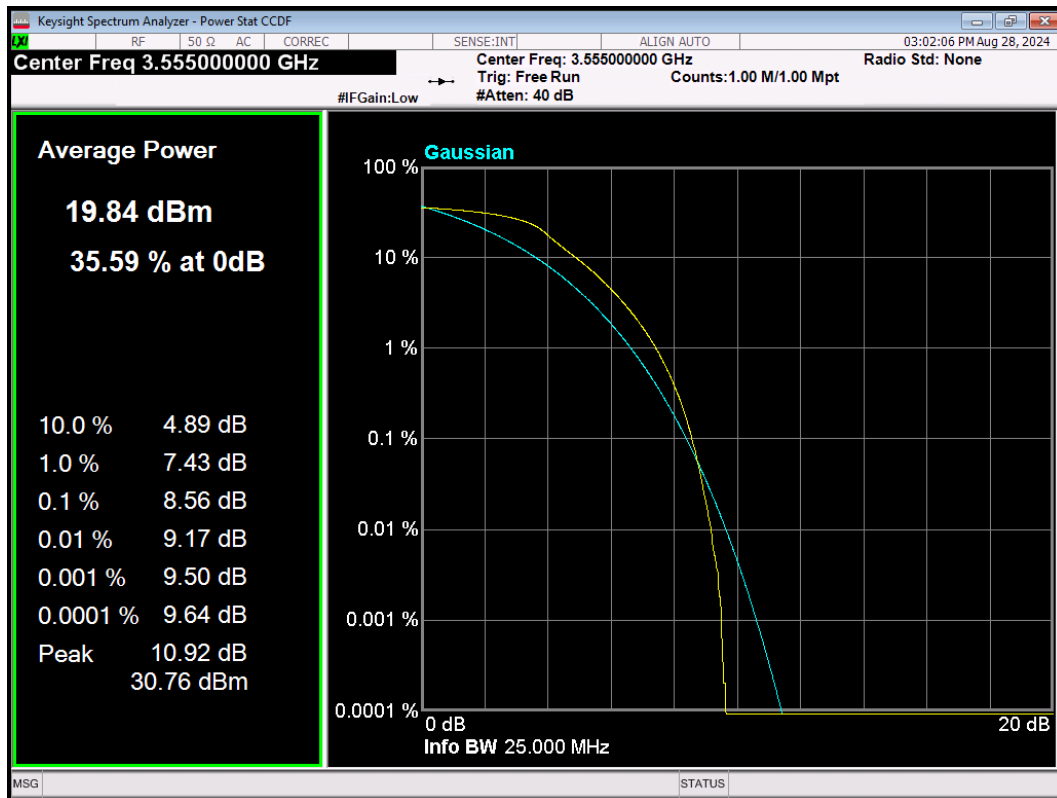
LTE Band 48 64QAM BW=5MHz Channel=55265 RB Size=25 Position=#0



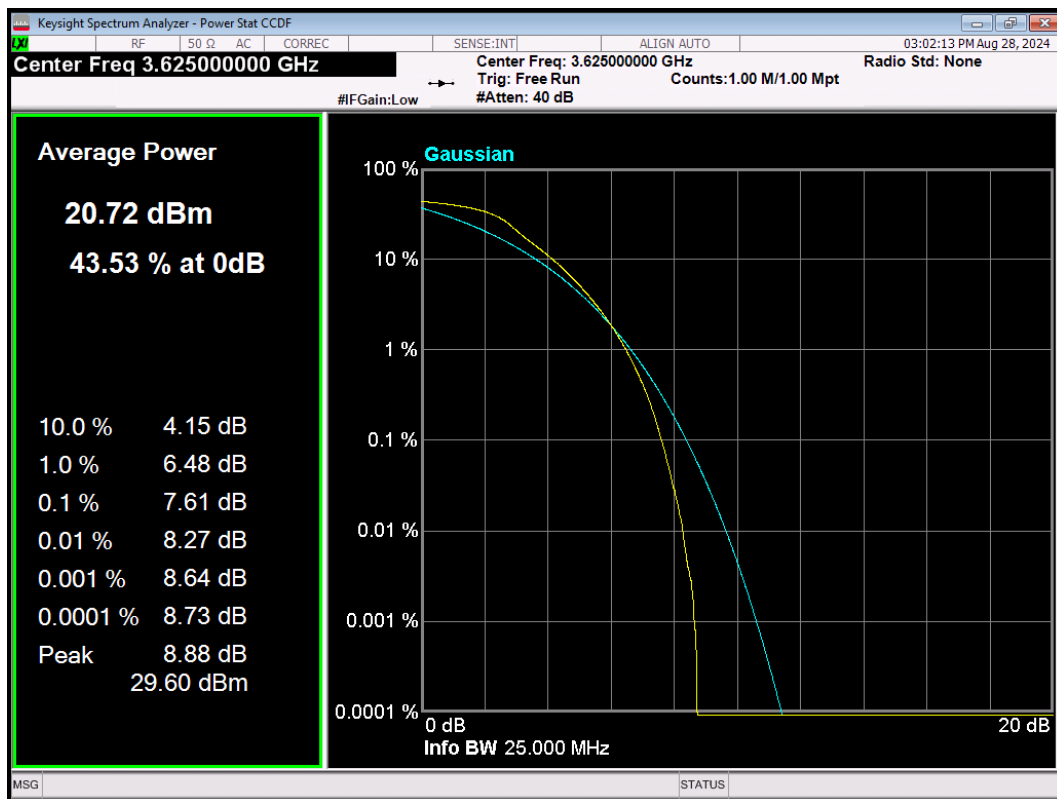
LTE Band 48 64QAM BW=5MHz Channel=55990 RB Size=25 Position=#0



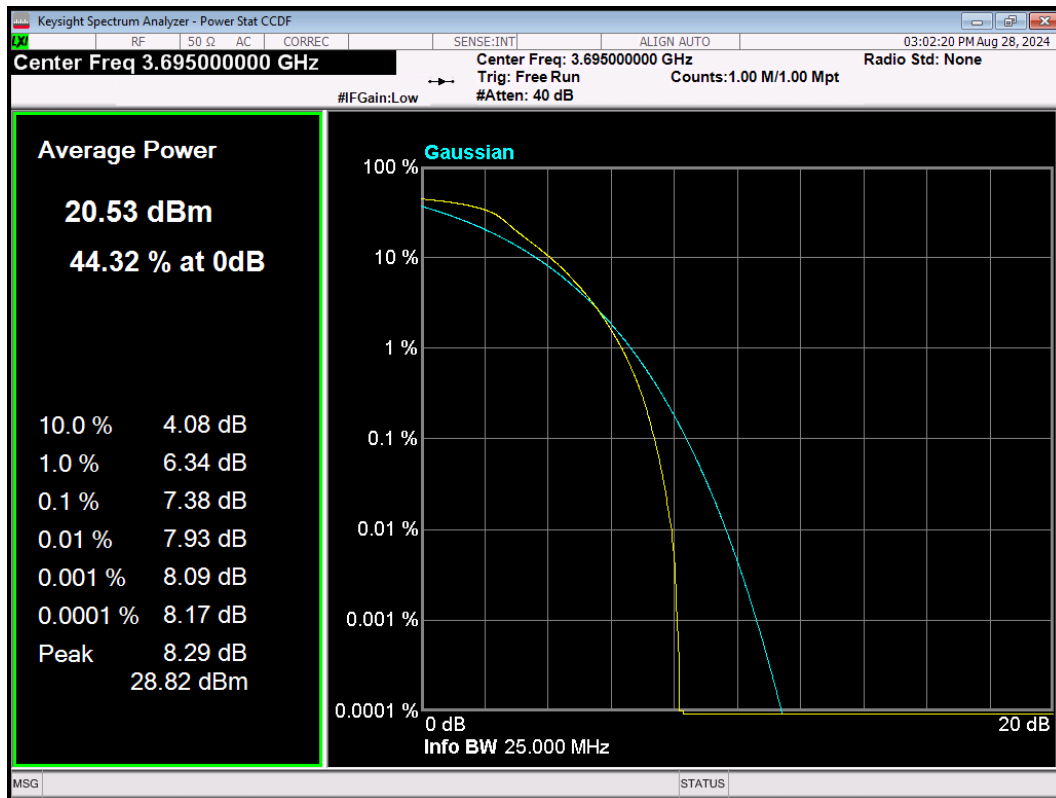
LTE Band 48 64QAM BW=5MHz Channel=56715 RB Size=25 Position=#0



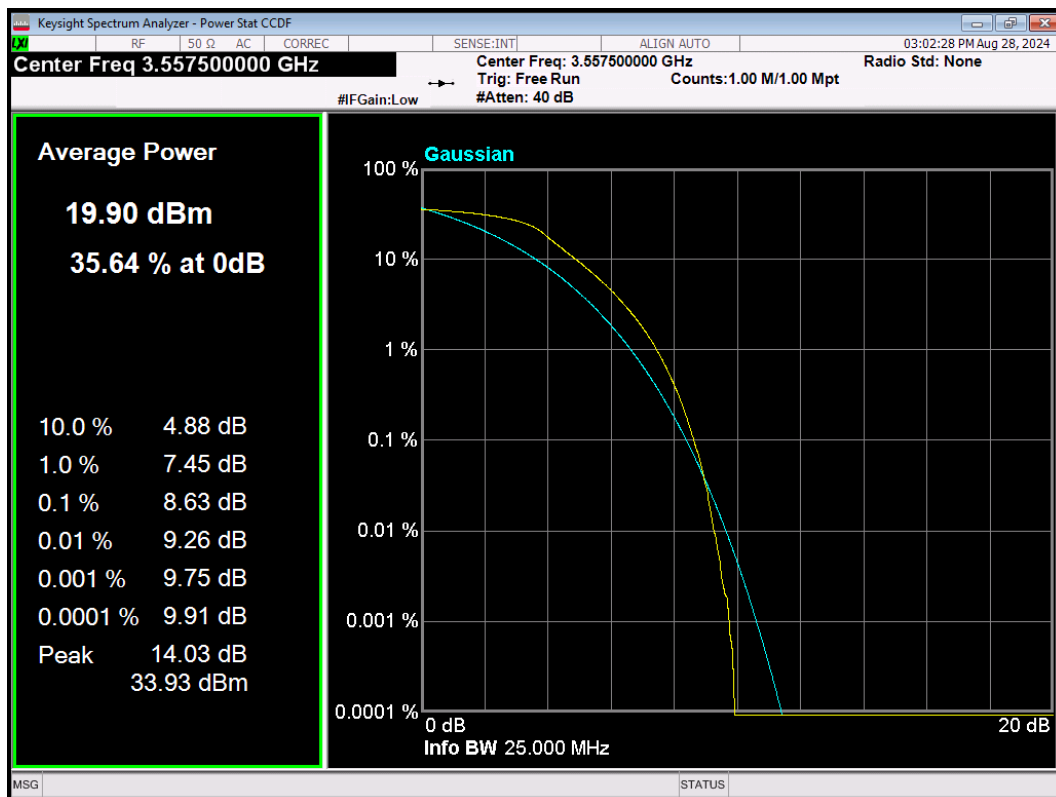
LTE Band 48 QPSK BW=10MHz Channel=55290 RB Size=50 Position=#0



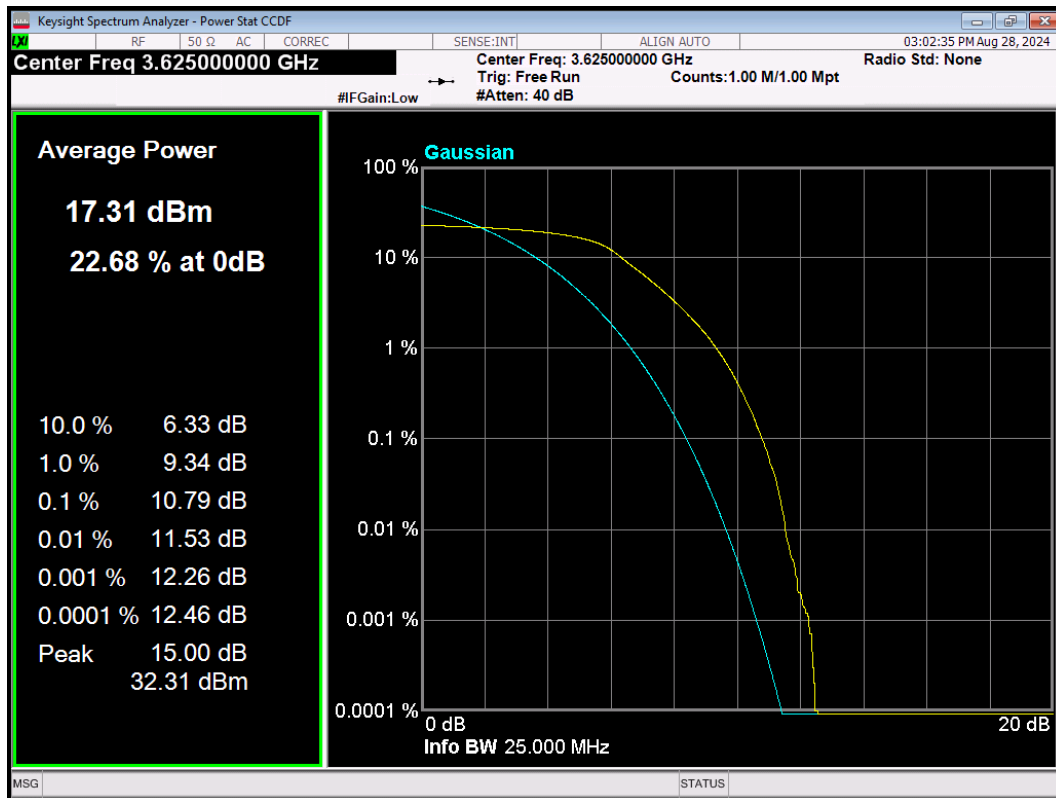
LTE Band 48 QPSK BW=10MHz Channel=55990 RB Size=50 Position=#0



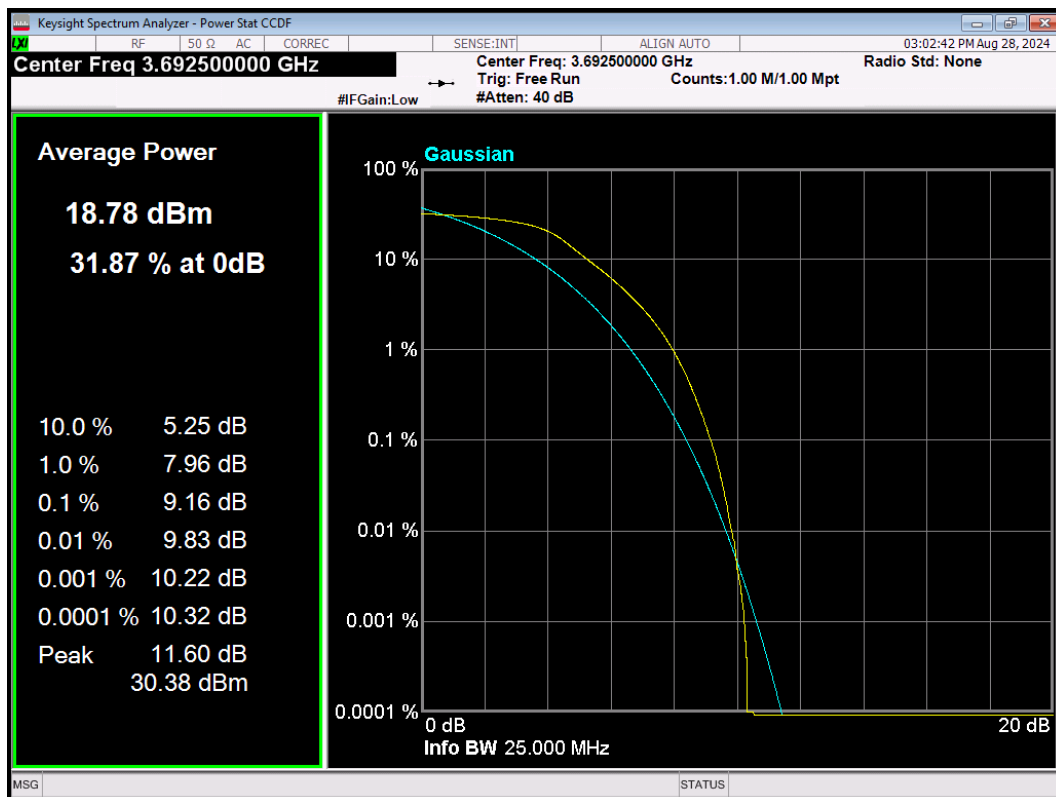
LTE Band 48 QPSK BW=10MHz Channel=56690 RB Size=50 Position=#0



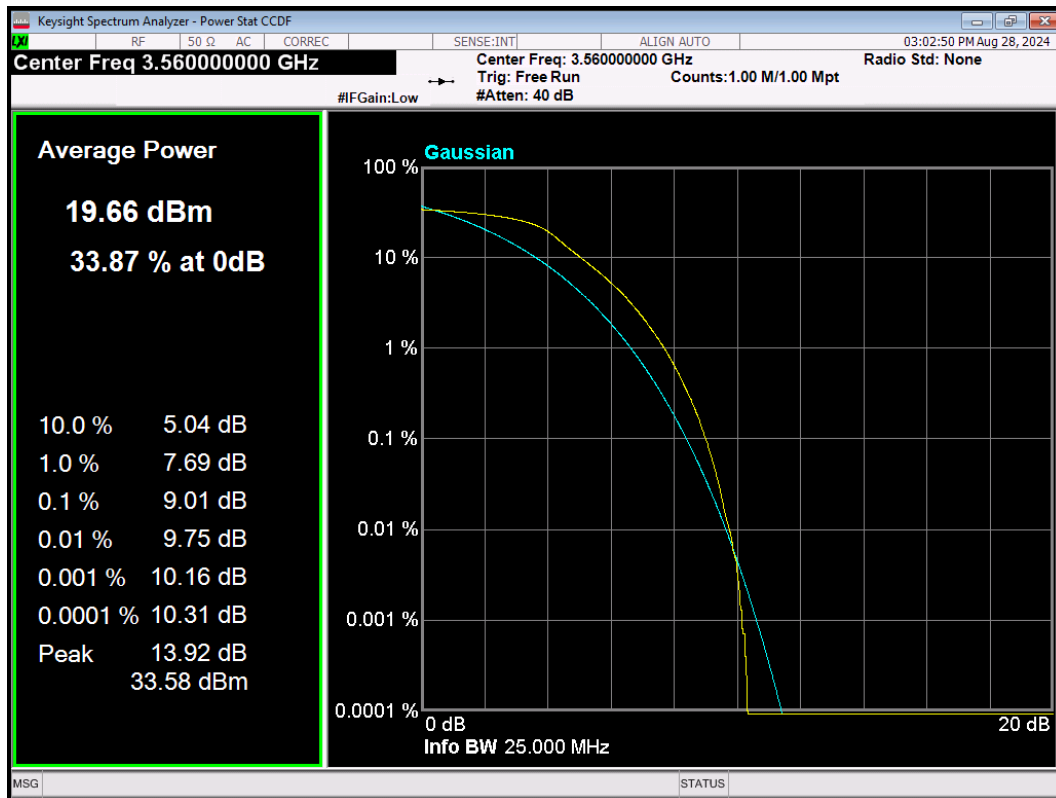
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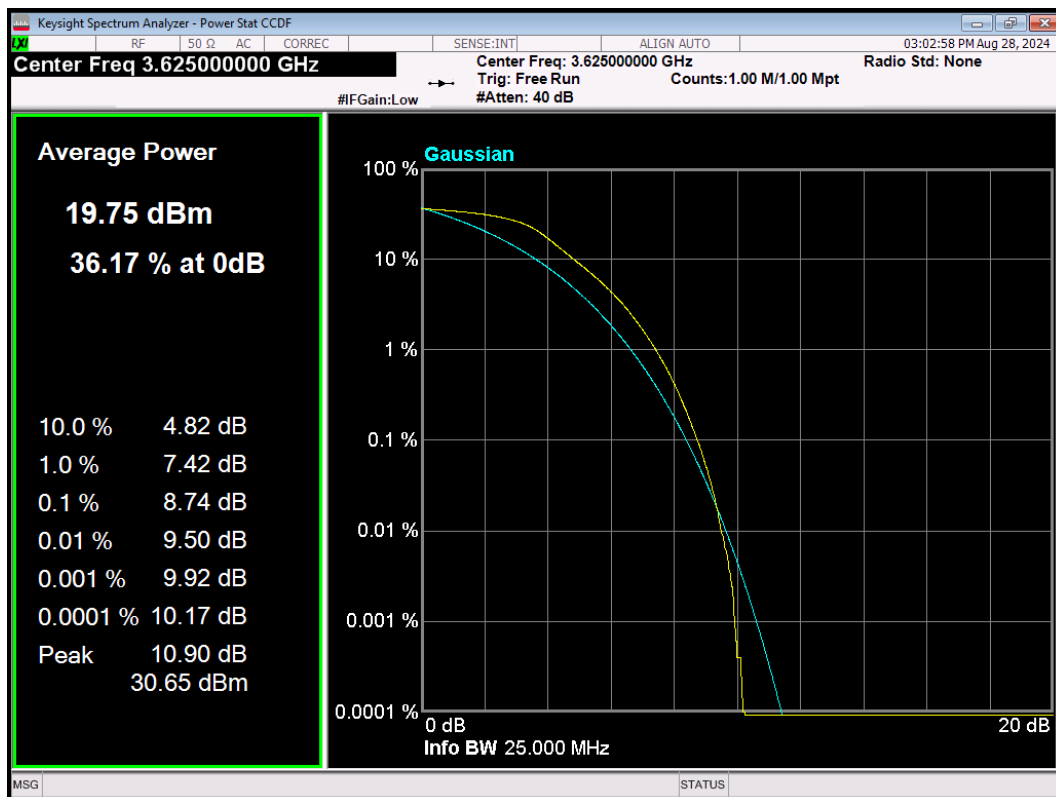
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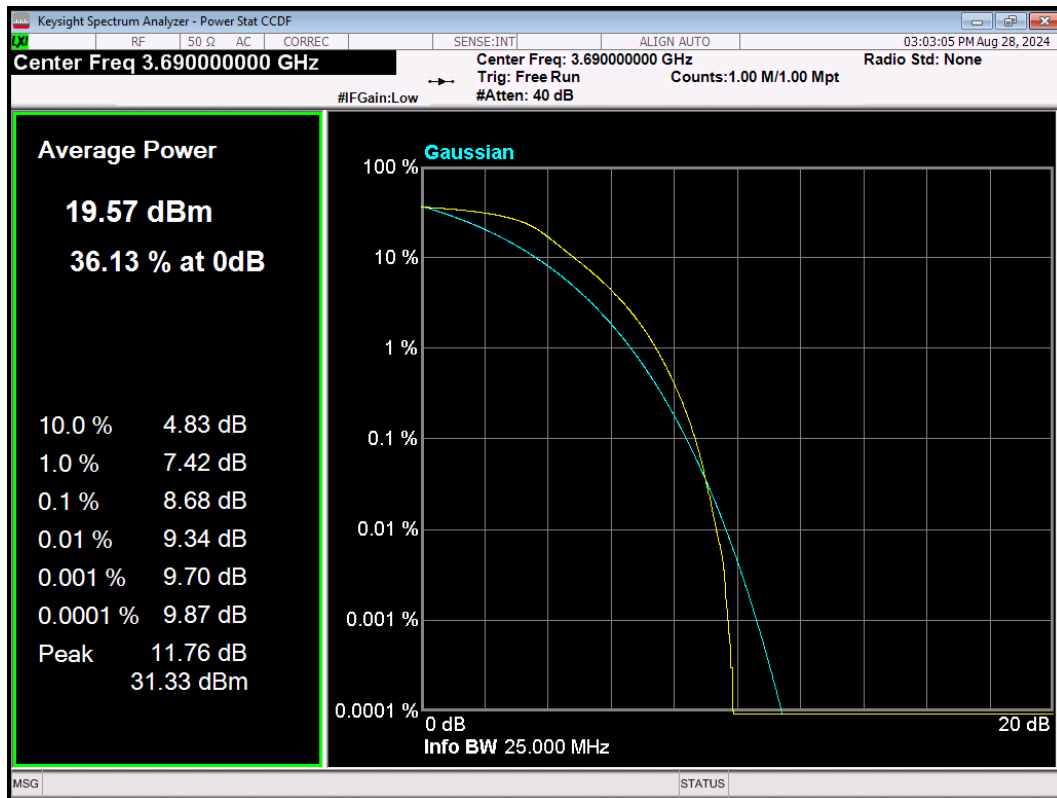
LTE Band 48 QPSK BW=15MHz Channel=56665 RB Size=75 Position=#0



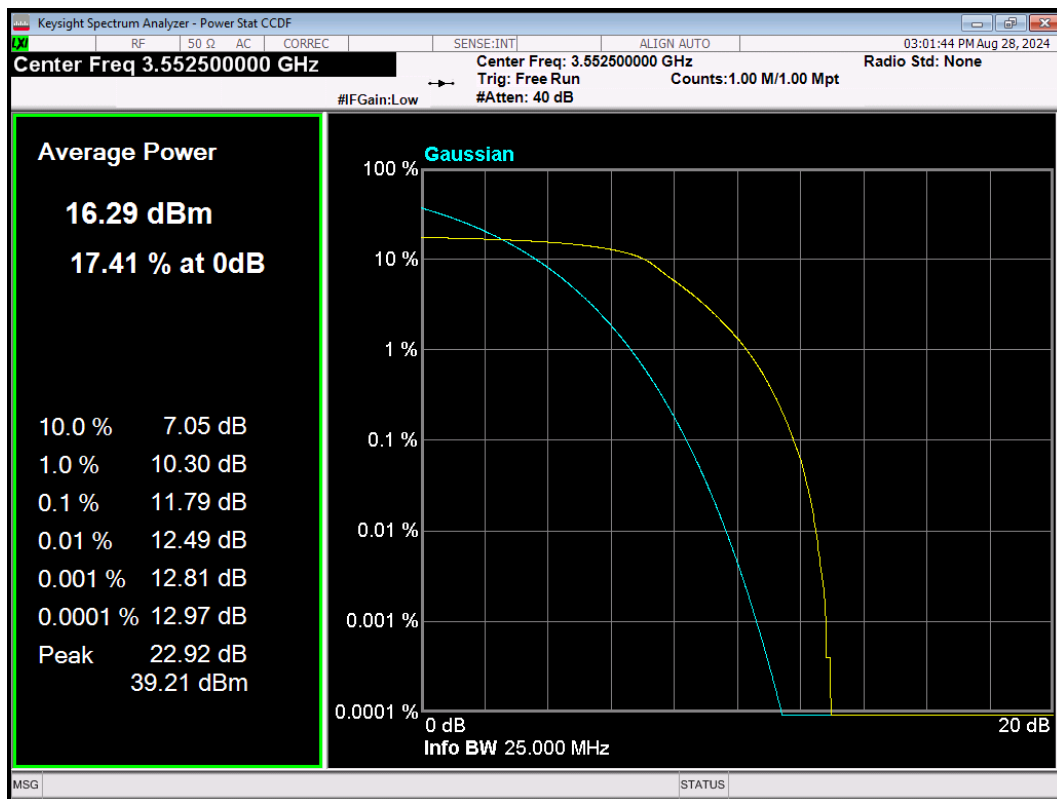
LTE Band 48 QPSK BW=20MHz Channel=55340 RB Size=100 Position=#0



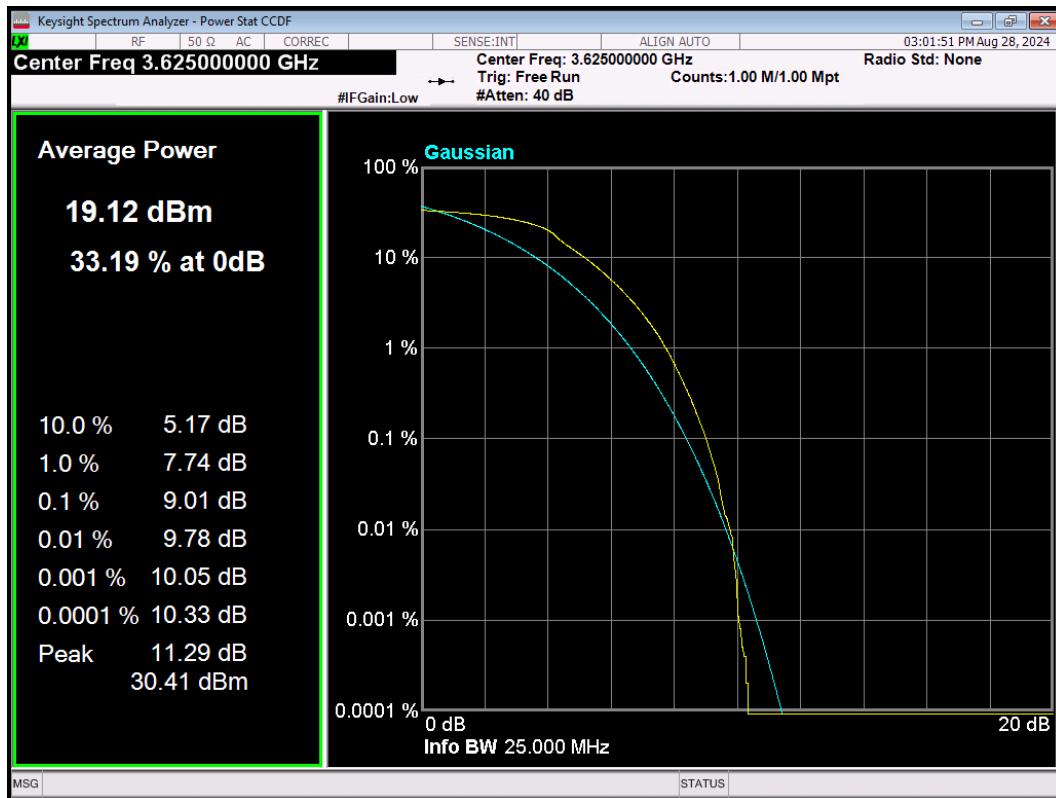
LTE Band 48 QPSK BW=20MHz Channel=55990 RB Size=100 Position=#0



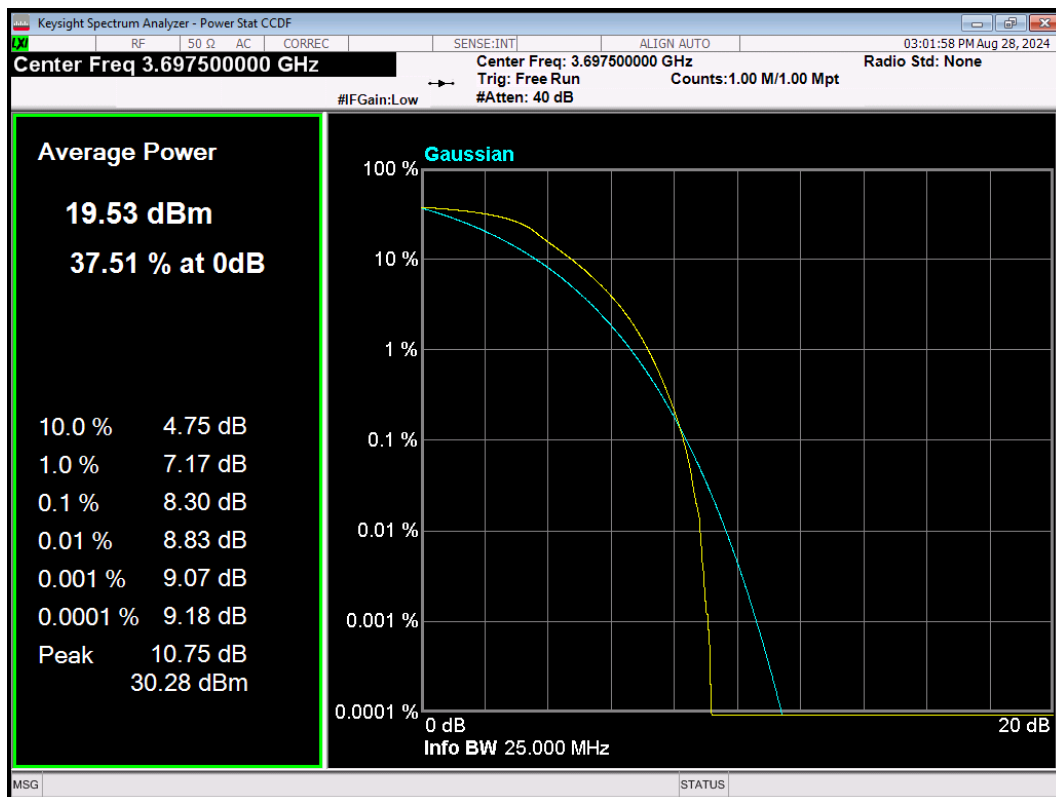
LTE Band 48 QPSK BW=20MHz Channel=56640 RB Size=100 Position=#0



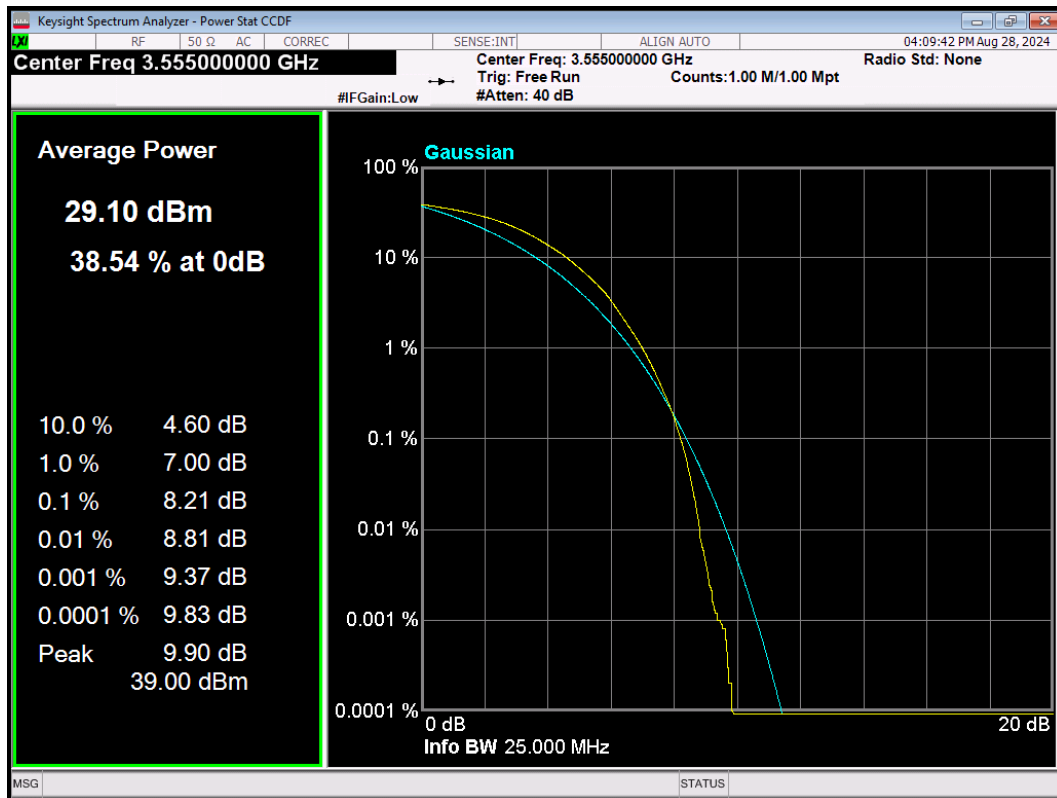
LTE Band 48 QPSK BW=5MHz Channel=55265 RB Size=25 Position=#0



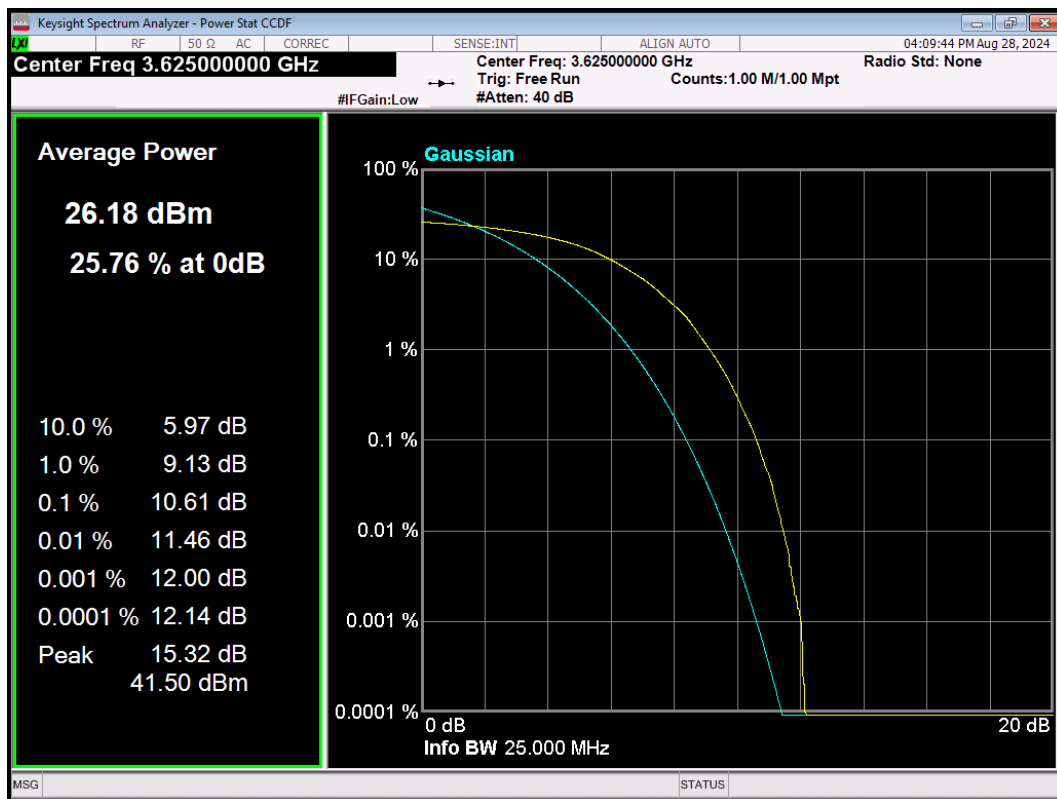
LTE Band 48 QPSK BW=5MHz Channel=55990 RB Size=25 Position=#0



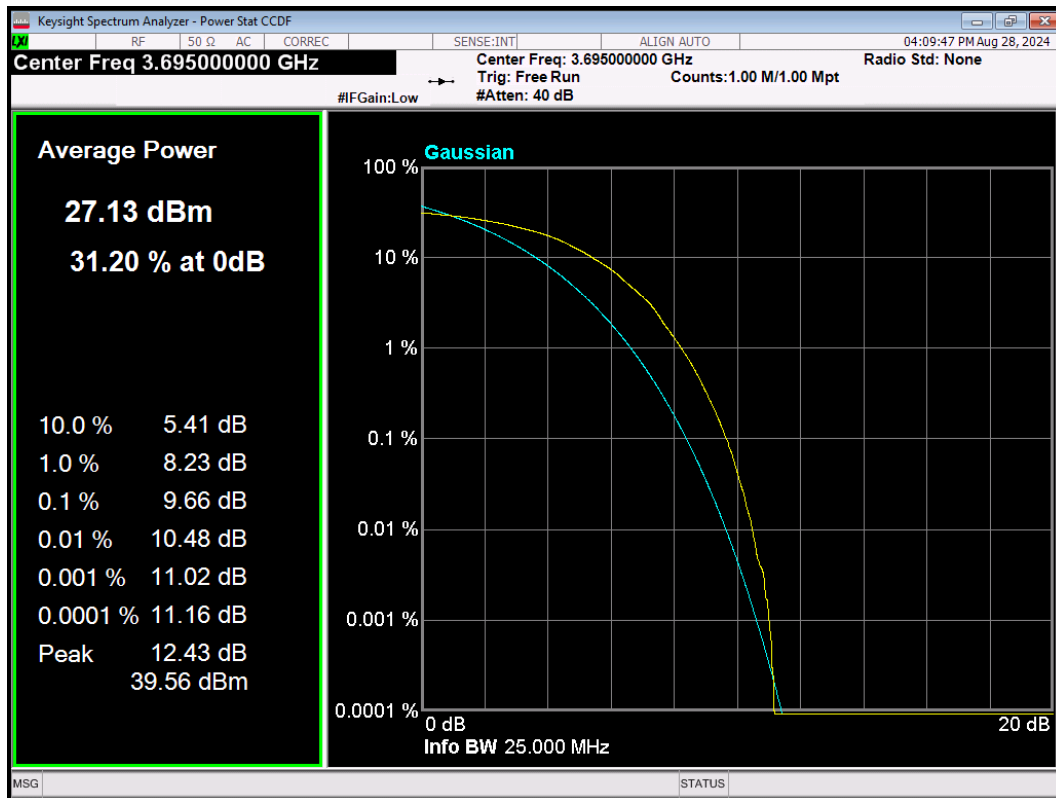
LTE Band 48 QPSK BW=5MHz Channel=56715 RB Size=25 Position=#0



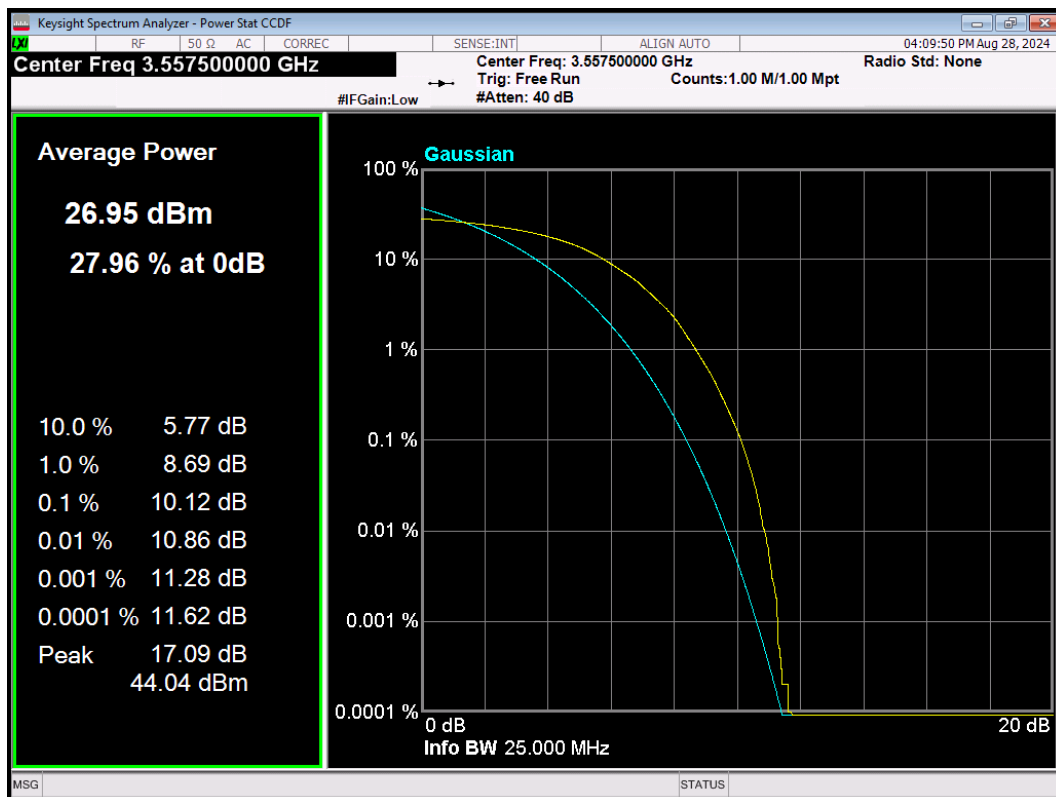
LTE Band 48 256QAM BW=10MHz Channel=55290 RB Size=50 Position=#0



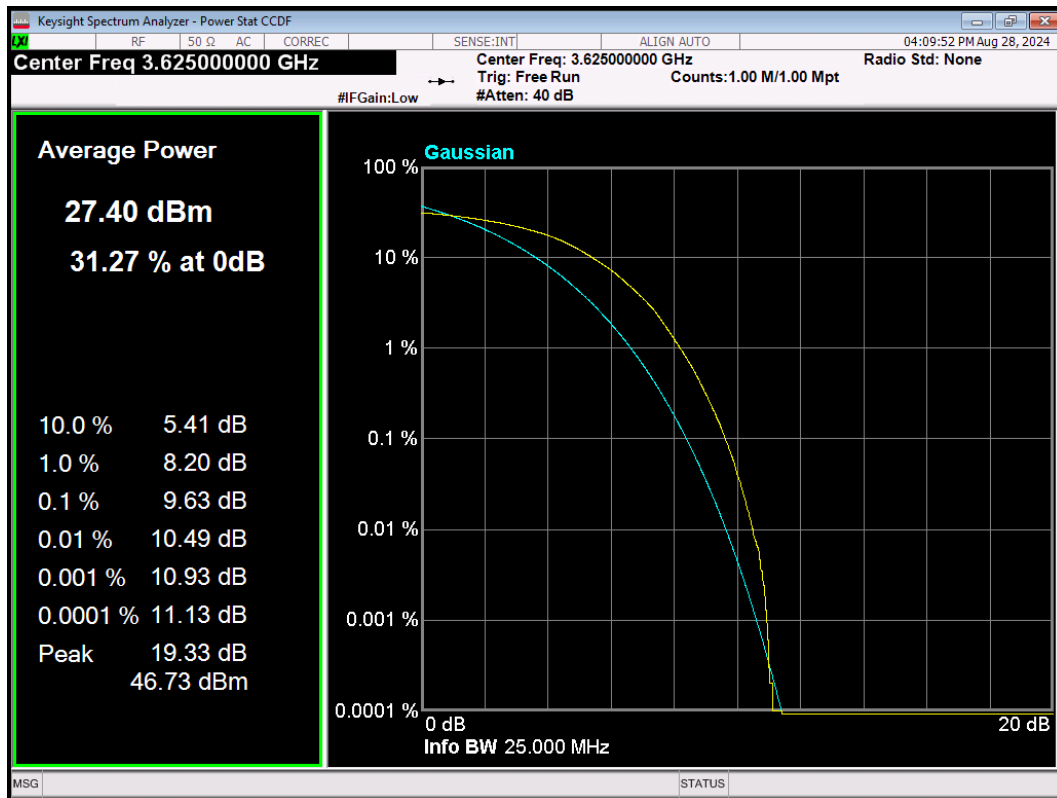
LTE Band 48 256QAM BW=10MHz Channel=55990 RB Size=50 Position=#0



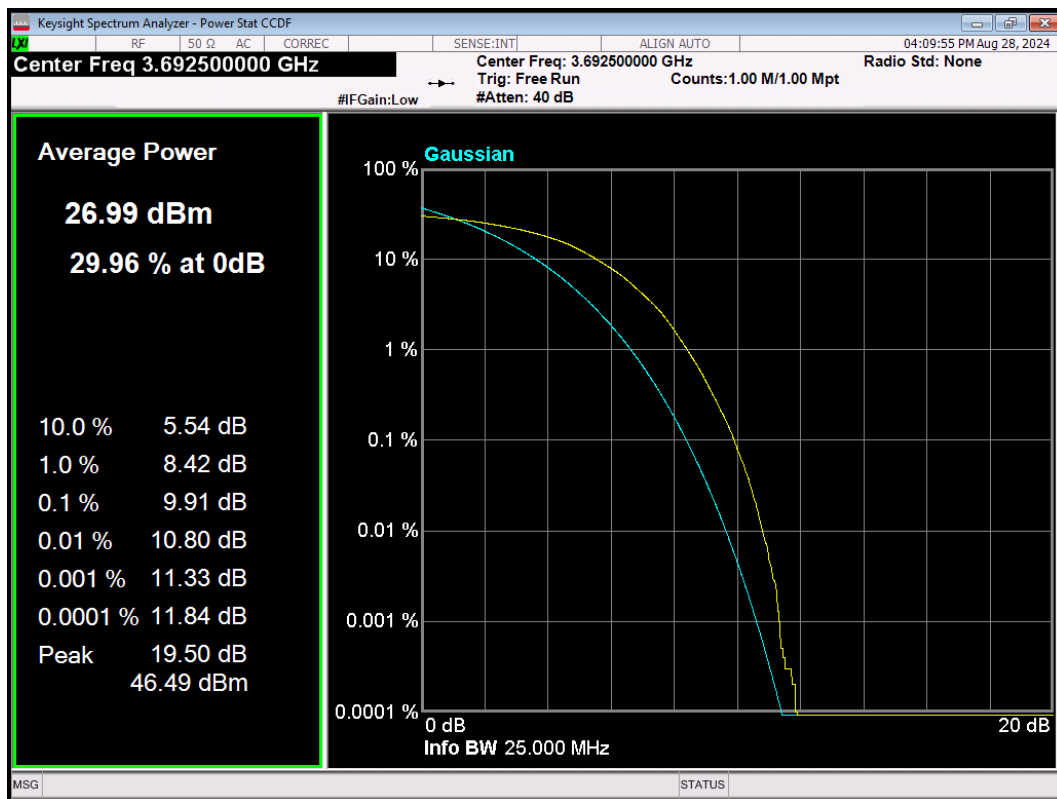
LTE Band 48 256QAM BW=10MHz Channel=56690 RB Size=50 Position=#0



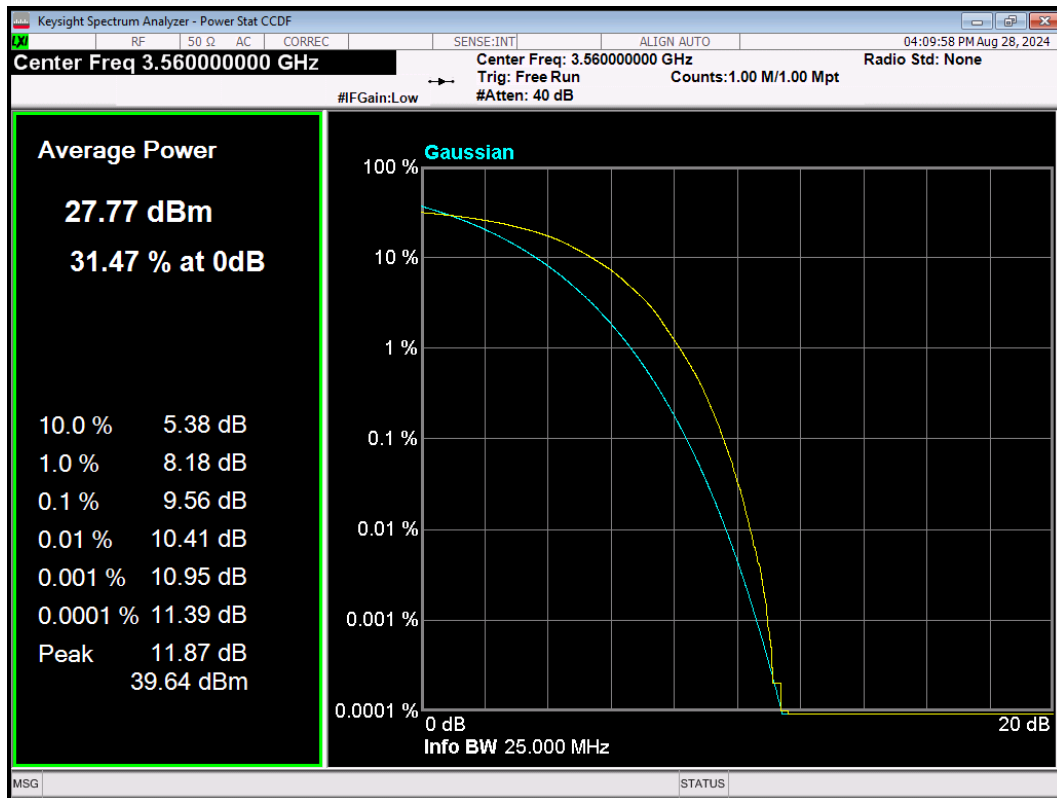
LTE Band 48 256QAM BW=15MHz Channel=55315 RB Size=75 Position=#0



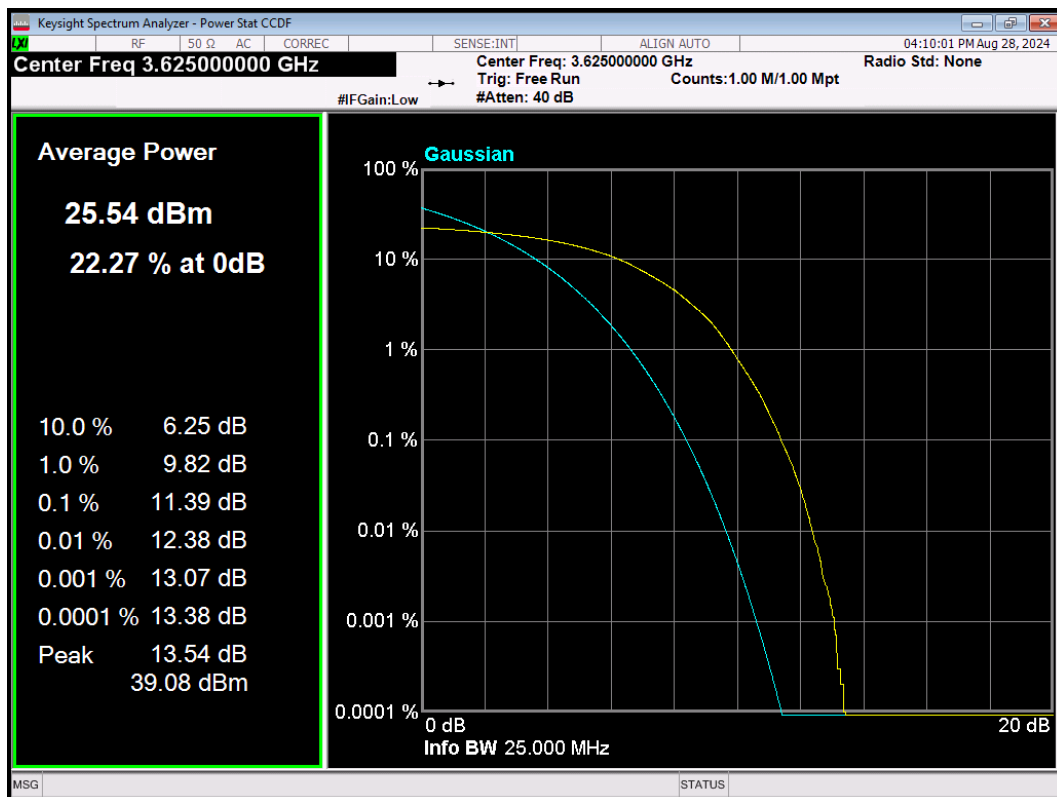
LTE Band 48 256QAM BW=15MHz Channel=55990 RB Size=75 Position=#0



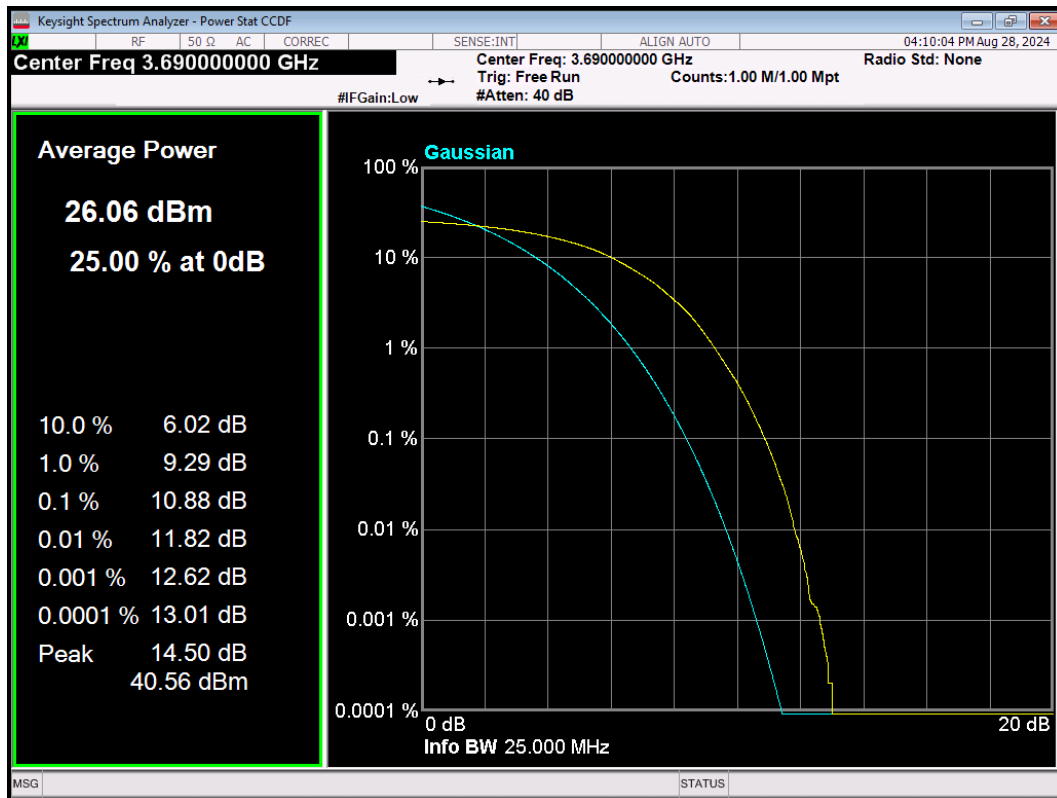
LTE Band 48 256QAM BW=15MHz Channel=56665 RB Size=75 Position=#0



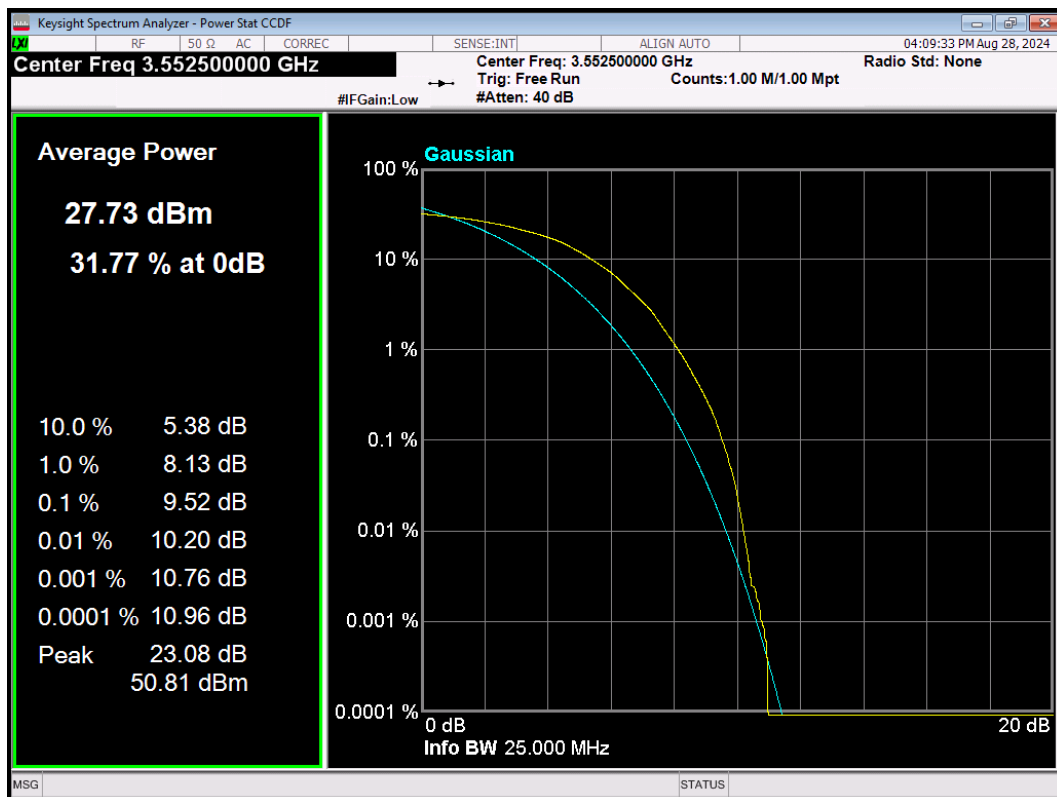
LTE Band 48 256QAM BW=20MHz Channel=55340 RB Size=100 Position=#0



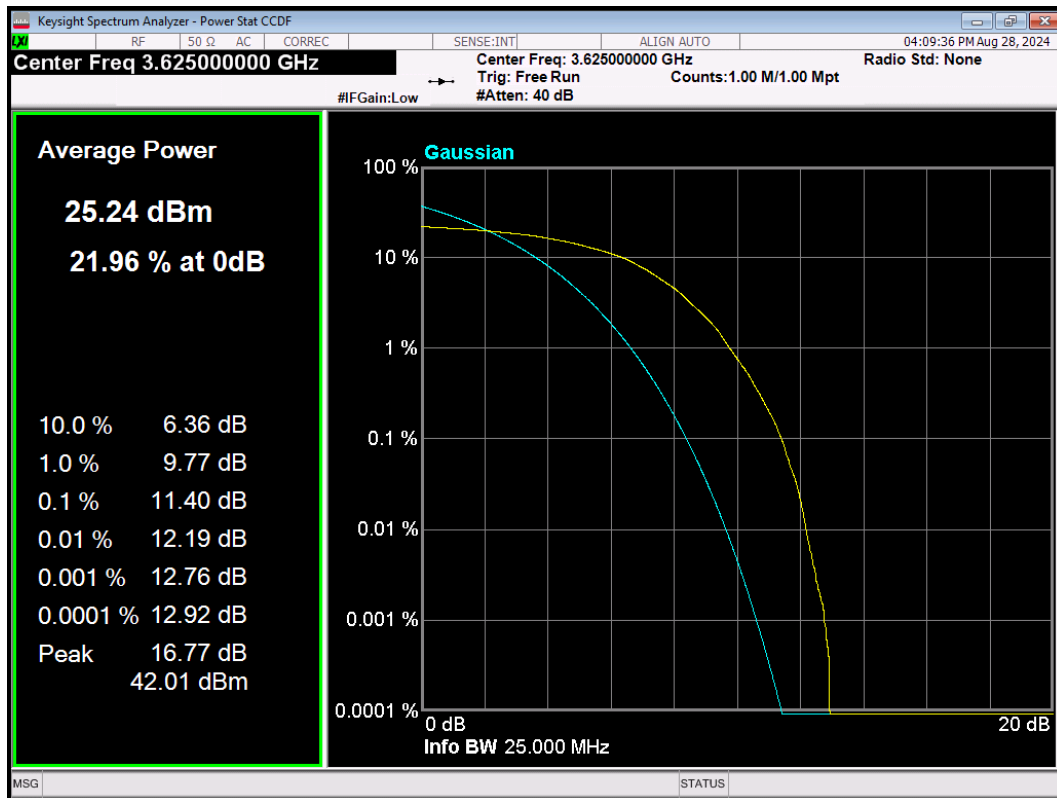
LTE Band 48 256QAM BW=20MHz Channel=55990 RB Size=100 Position=#0



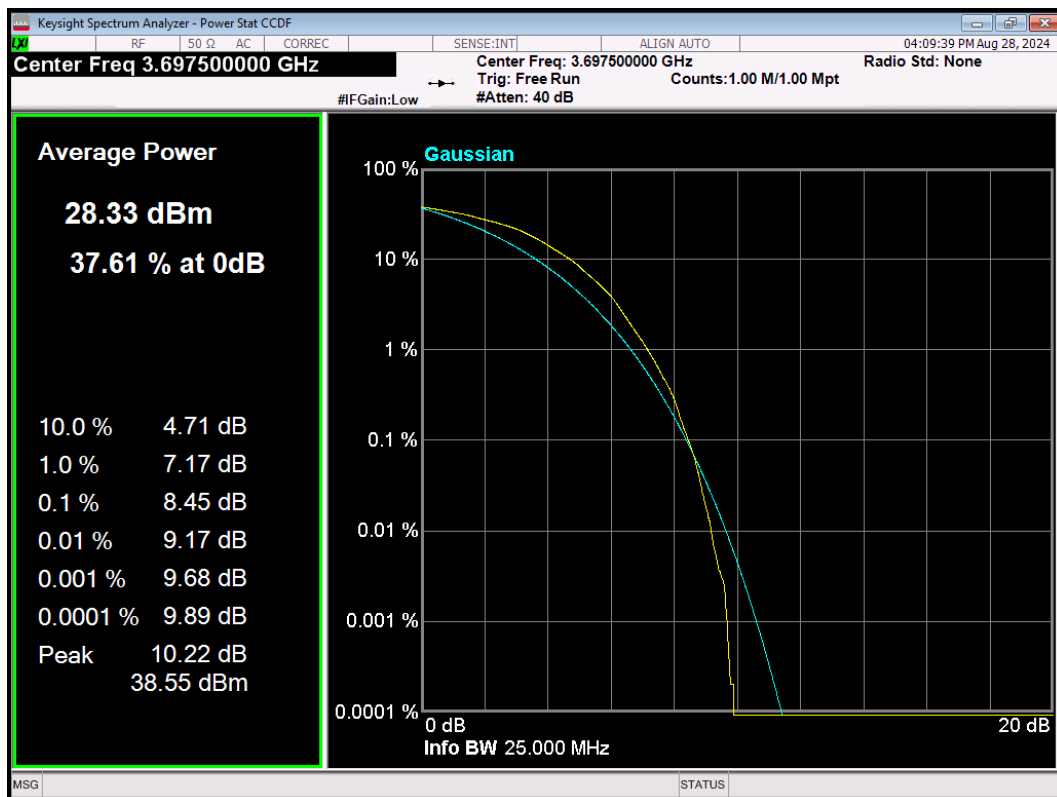
LTE Band 48 256QAM BW=20MHz Channel=56640 RB Size=100 Position=#0



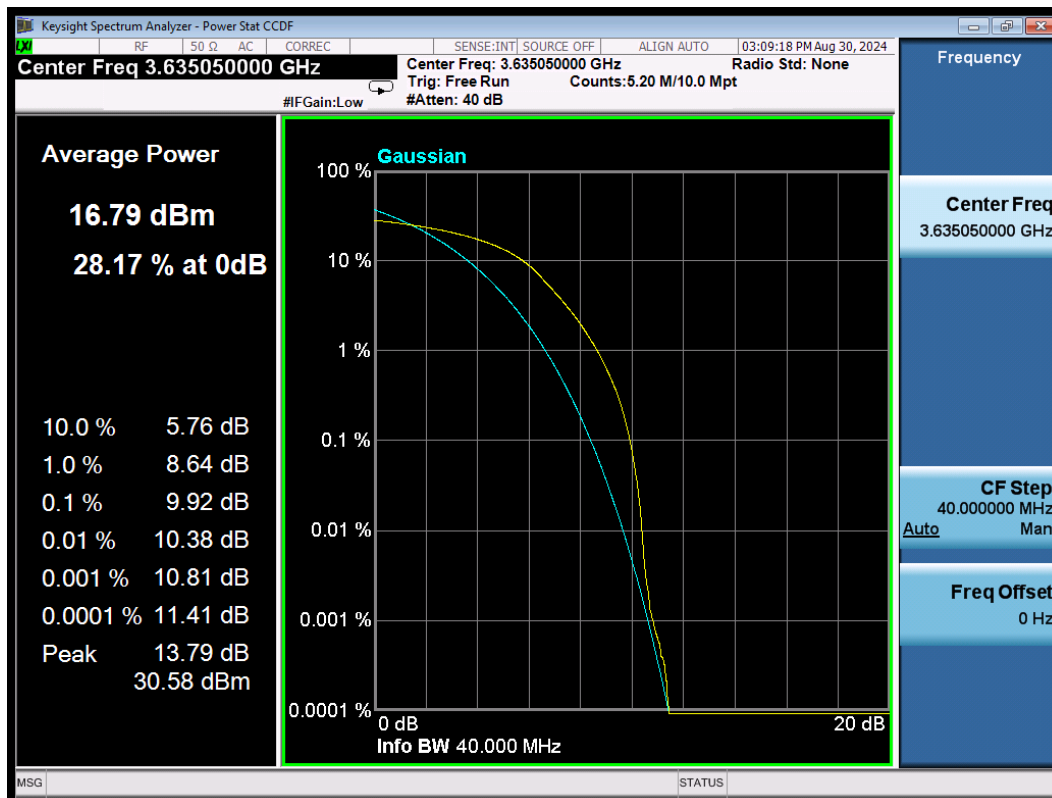
LTE Band 48 256QAM BW=5MHz Channel=55265 RB Size=25 Position=#0



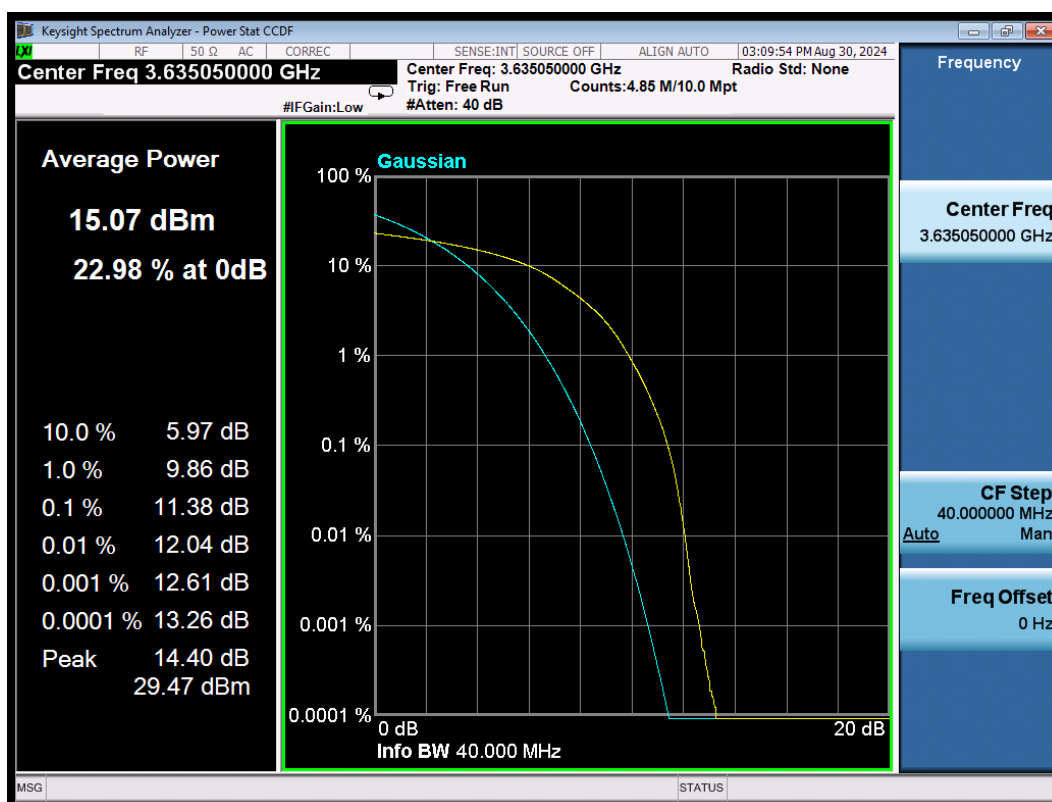
LTE Band 48 256QAM BW=5MHz Channel=55990 RB Size=25 Position=#0



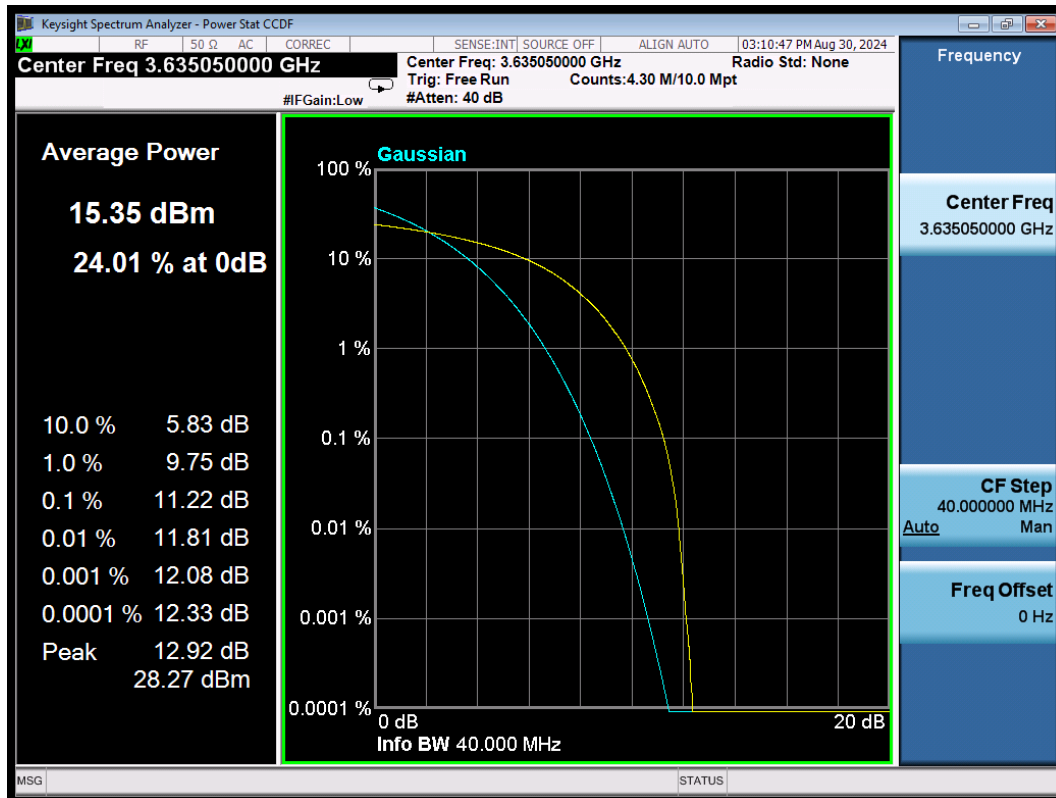
LTE Band 48 256QAM BW=5MHz Channel=56715 RB Size=25 Position=#0



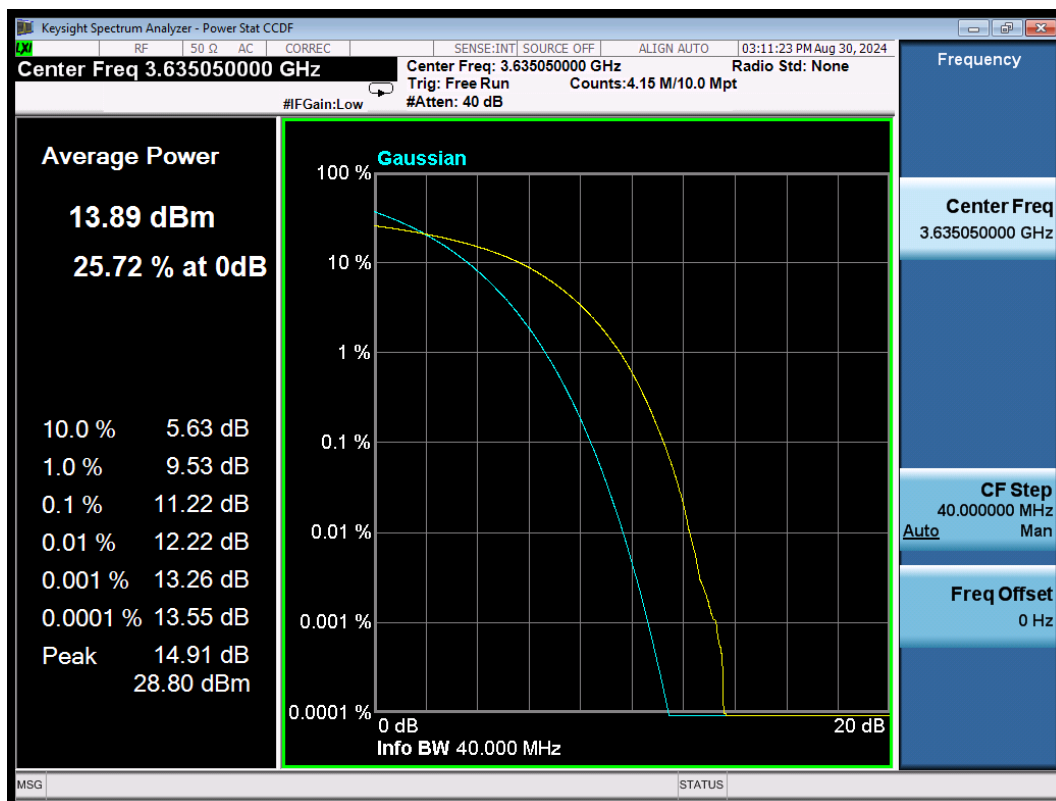
CA_48B QPSK\10MHz+10MHz Middle



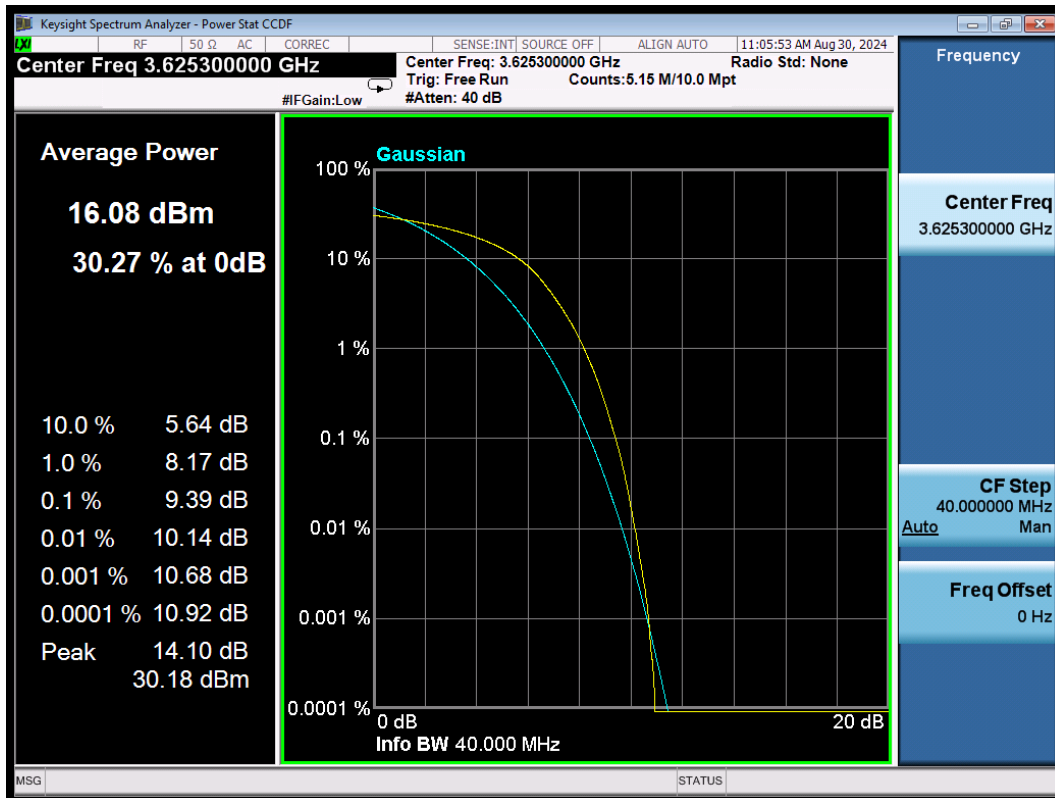
CA_48B 16QAM\10MHz+10MHz Middle



CA_48B 64QAM\10MHz+10MHz Middle



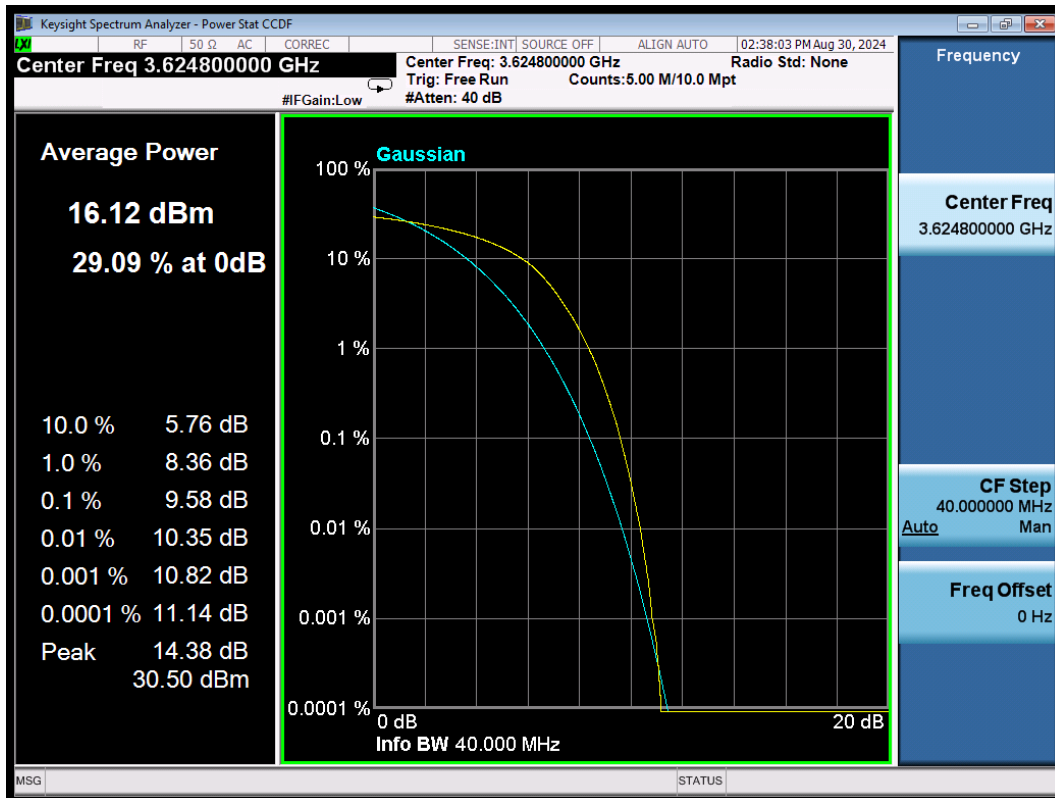
CA_48B 256QAM\10MHz+10MHz Middle



CA_48B QPSK\10MHz+20MHz Middle



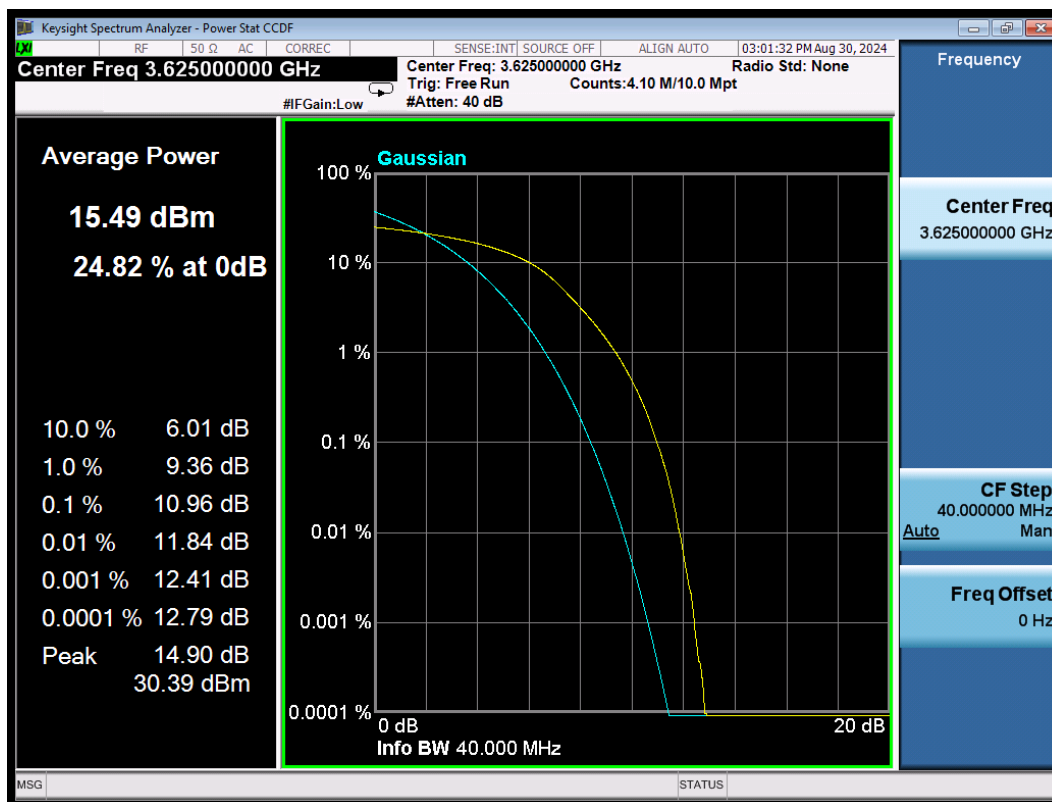
CA_48B QPSK\15MHz+20MHz Middle



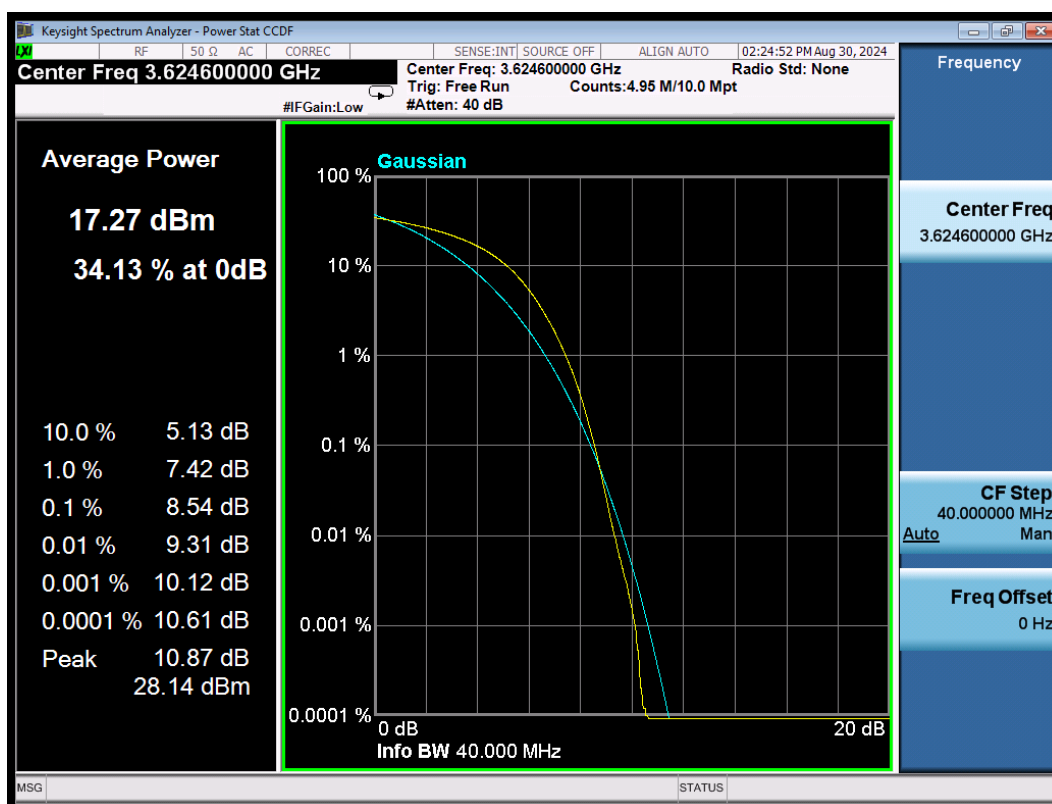
CA_48B QPSK\20MHz+10MHz Middle



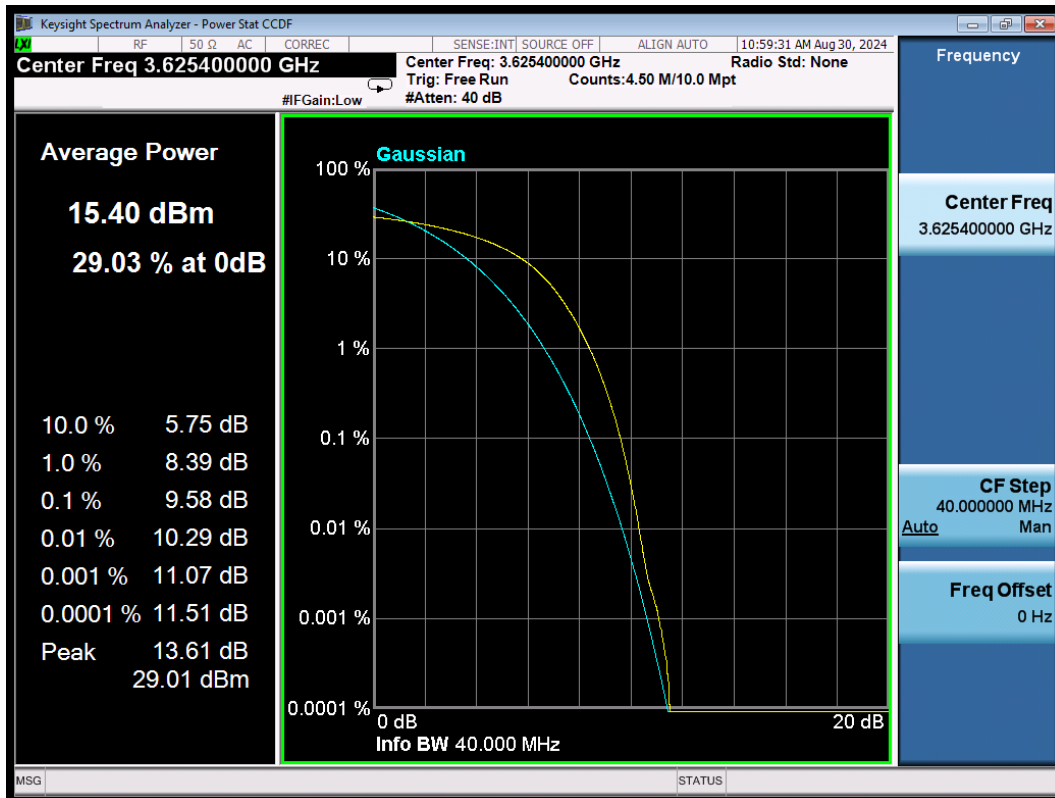
CA_48B QPSK\20MHz+15MHz Middle



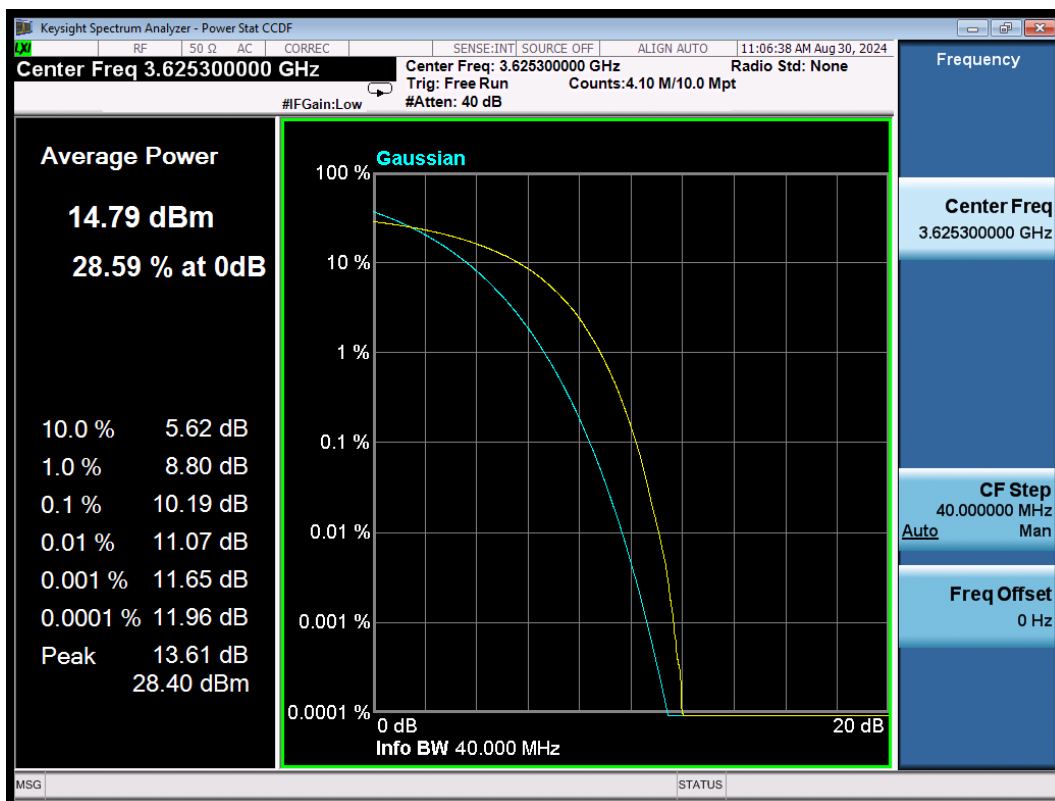
CA_48B QPSK\20MHz+20MHz Middle



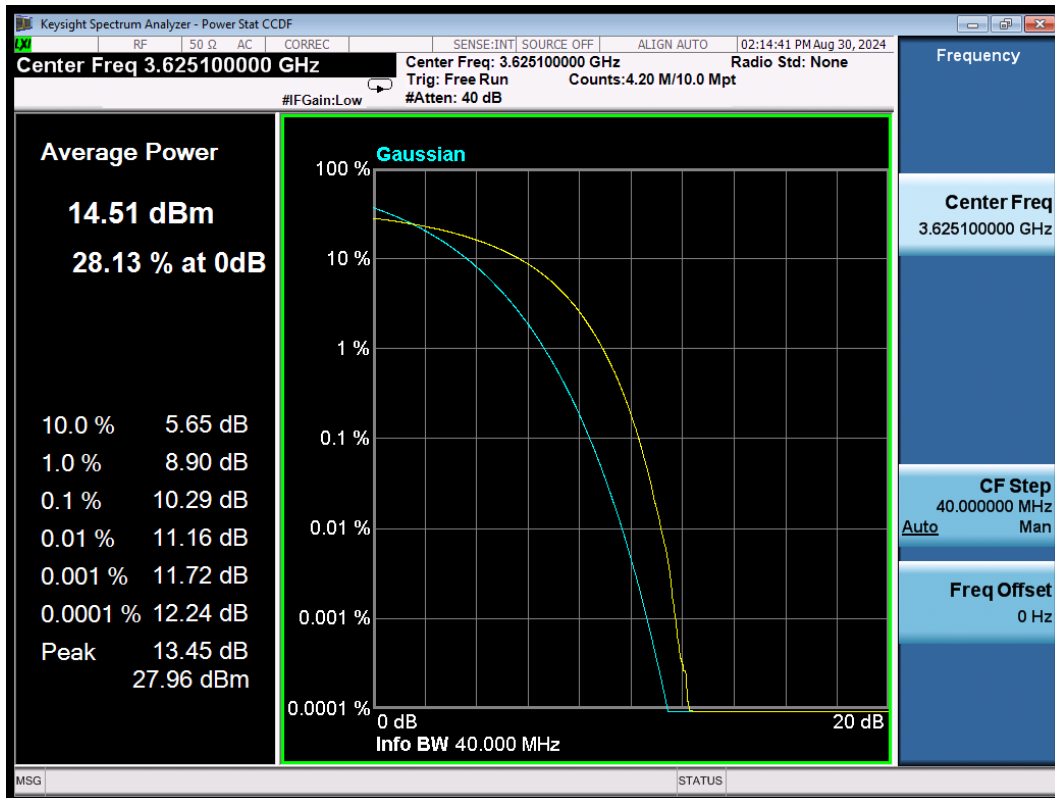
CA_48B QPSK\20MHz+5MHz Middle



CA_48B QPSK\5MHz+20MHz Middle



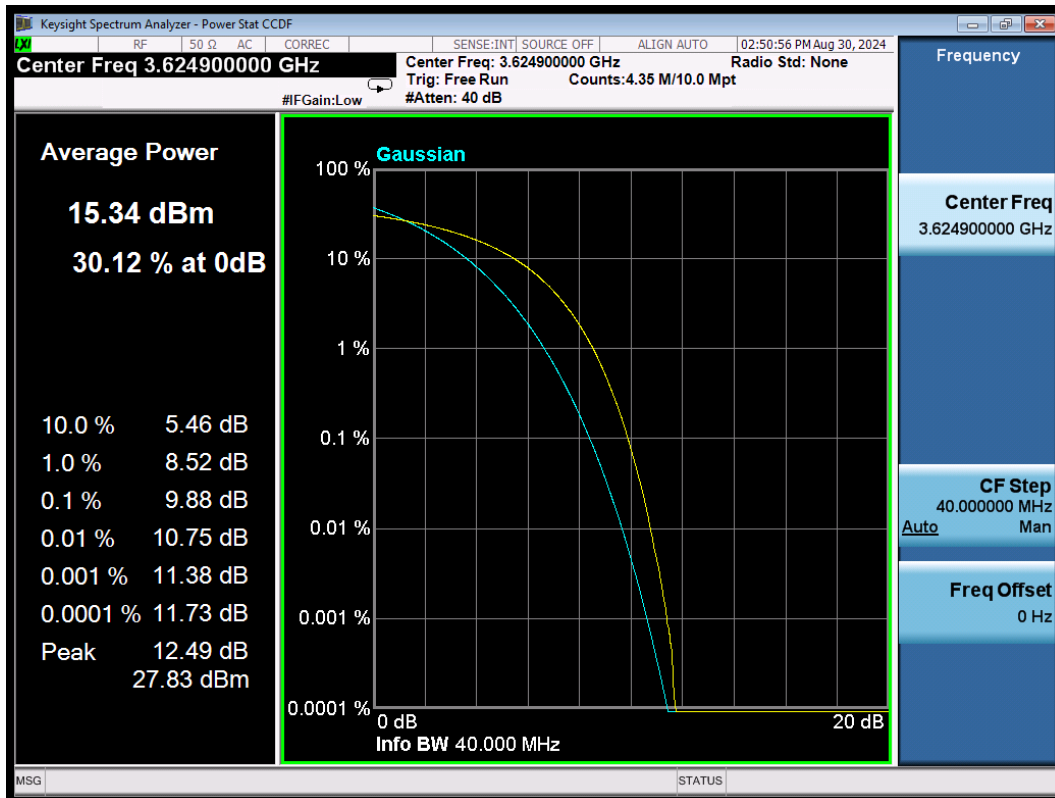
CA_48B 16QAM\10MHz+20MHz Middle



CA_48B 16QAM\15MHz+20MHz Middle



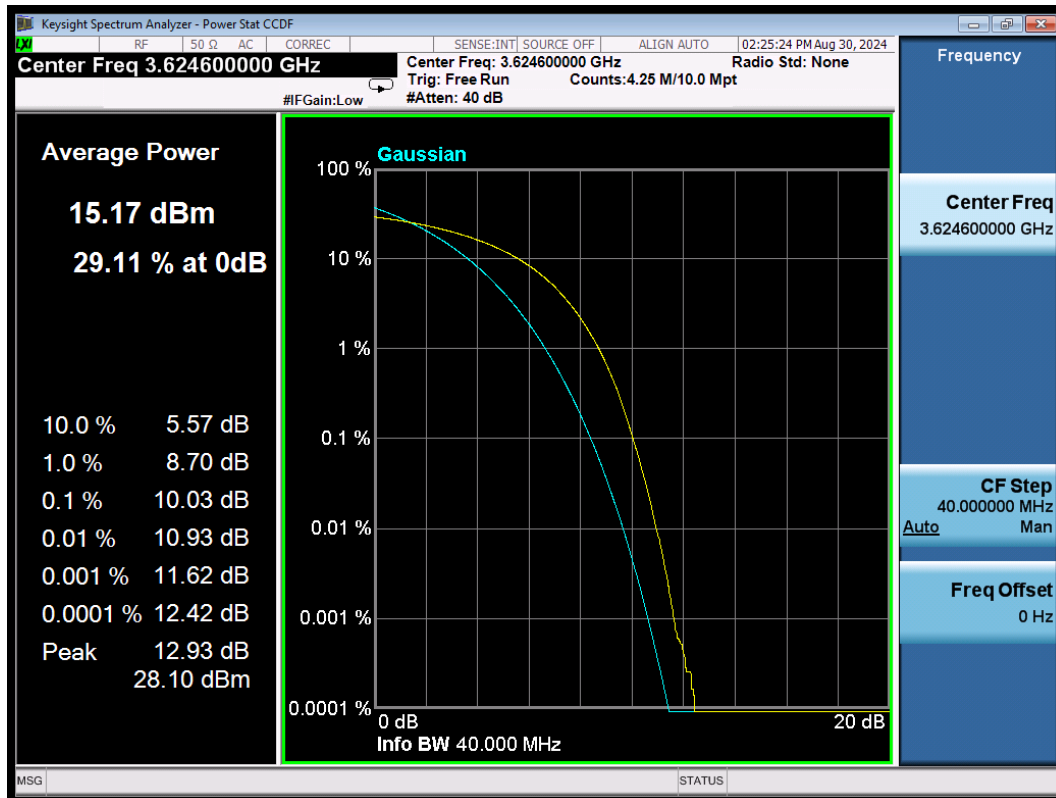
CA_48B 16QAM\20MHz+10MHz Middle



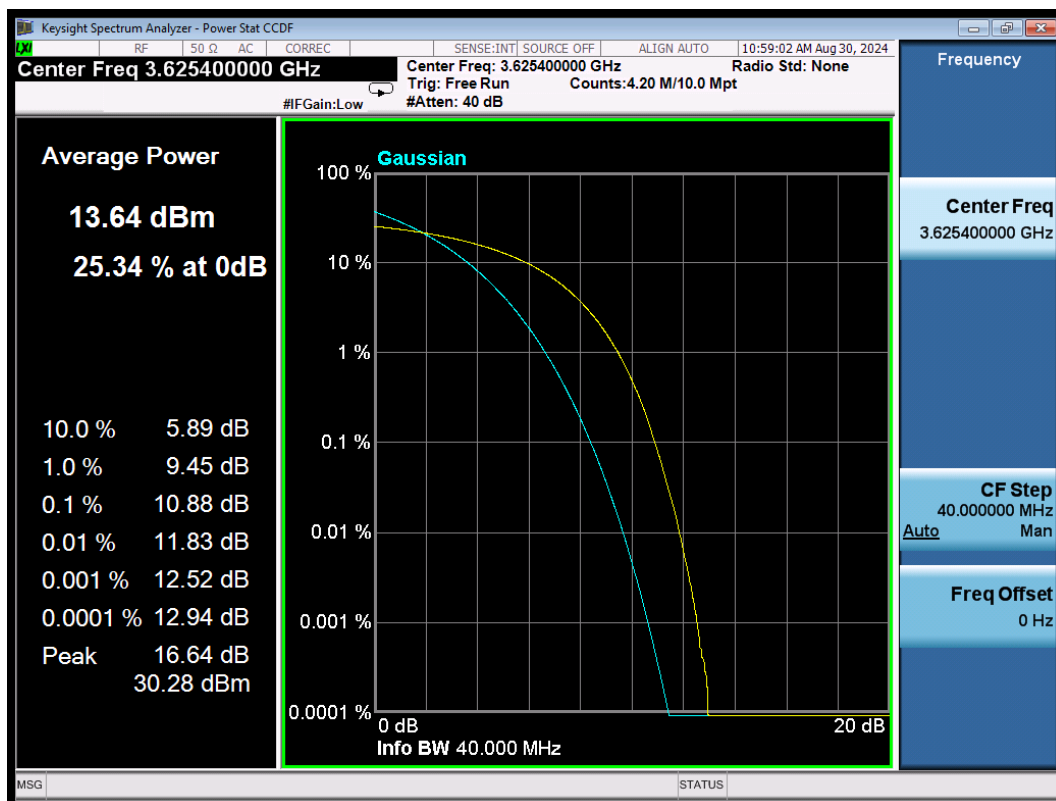
CA_48B 16QAM\20MHz+15MHz Middle



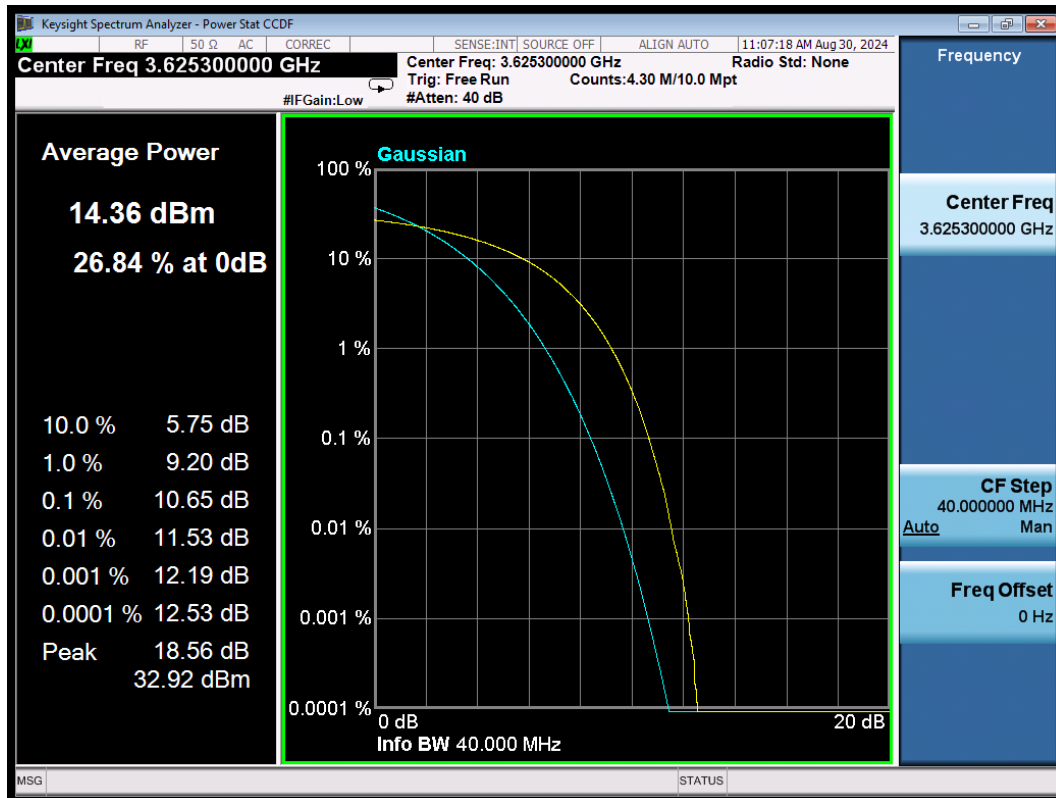
CA_48B 16QAM\20MHz+20MHz Middle



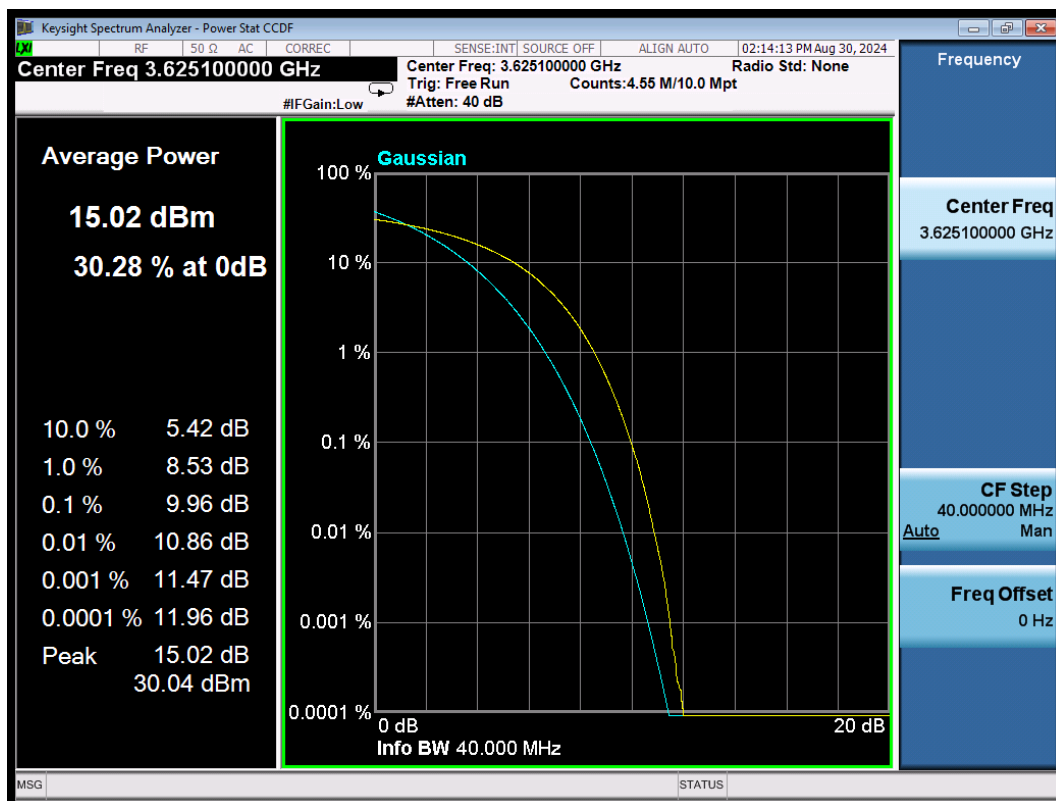
CA_48B 16QAM\20MHz+5MHz Middle



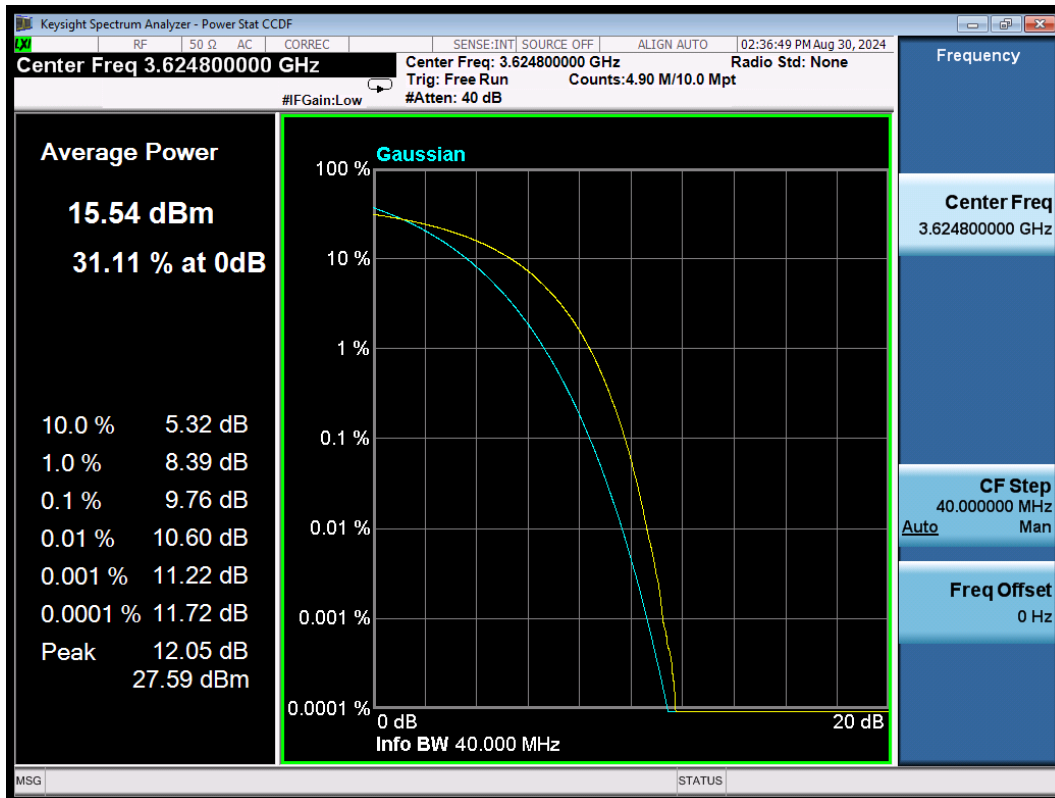
CA_48B 16QAM\5MHz+20MHz Middle



CA_48B 64QAM\10MHz+20MHz Middle



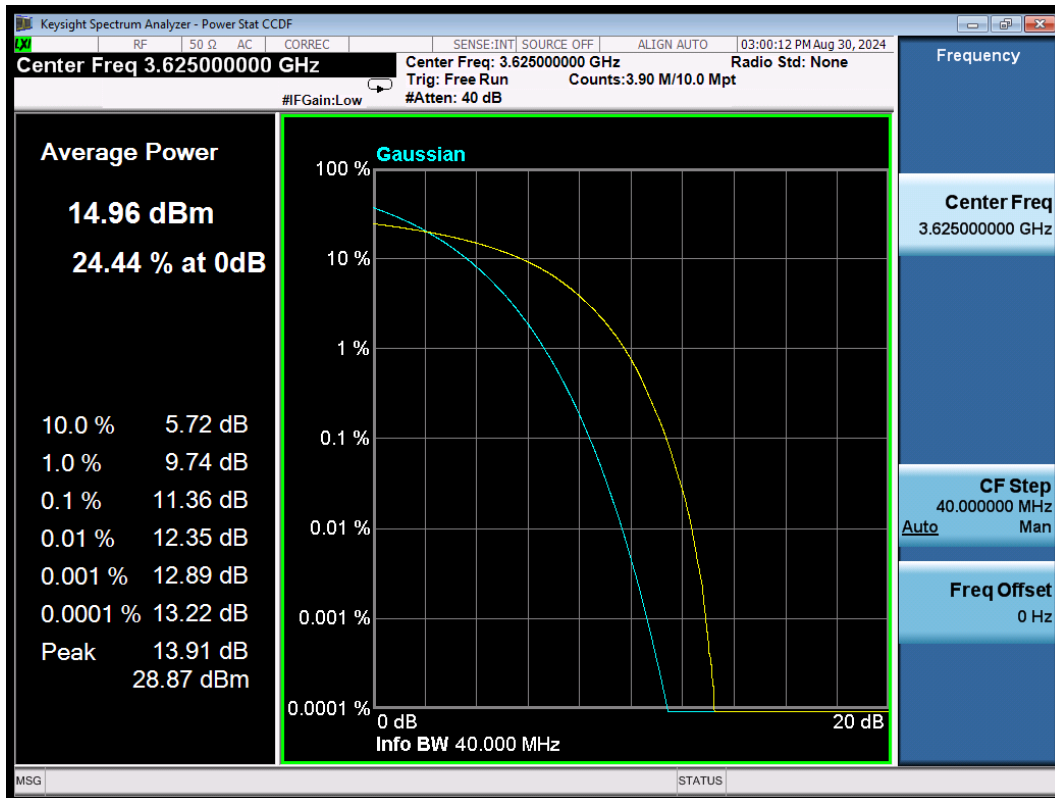
CA_48B 64QAM\15MHz+20MHz Middle



CA_48B 64QAM\20MHz+10MHz Middle



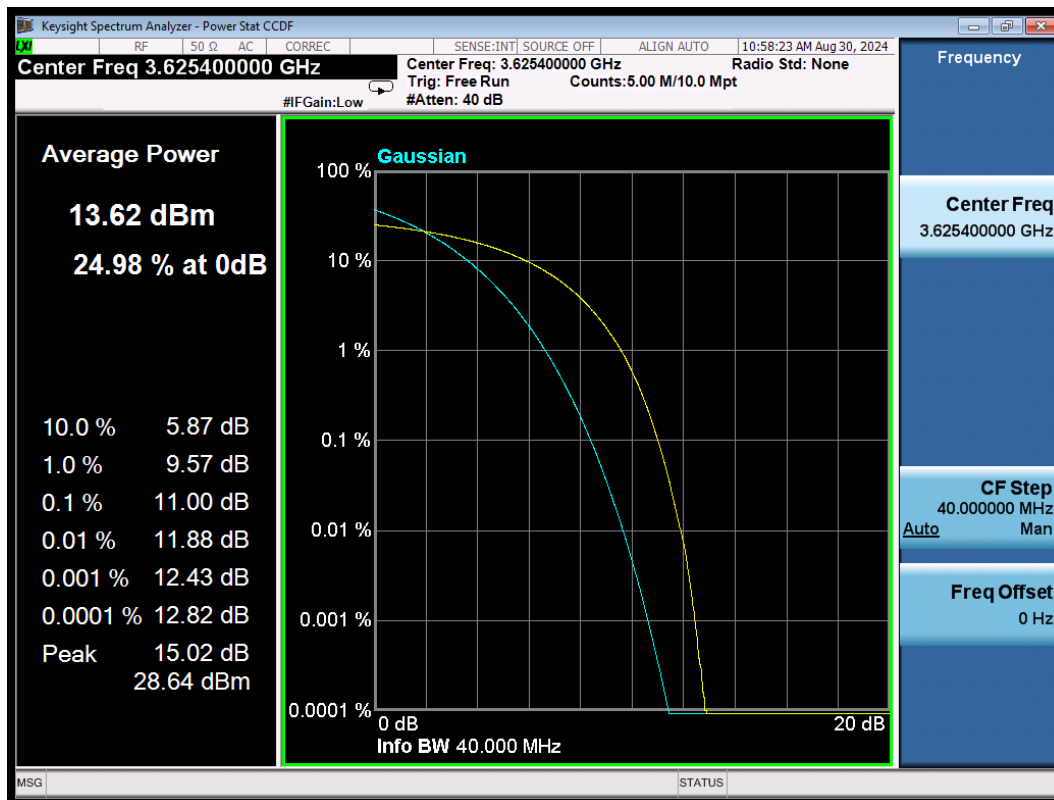
CA_48B 64QAM\20MHz+15MHz Middle



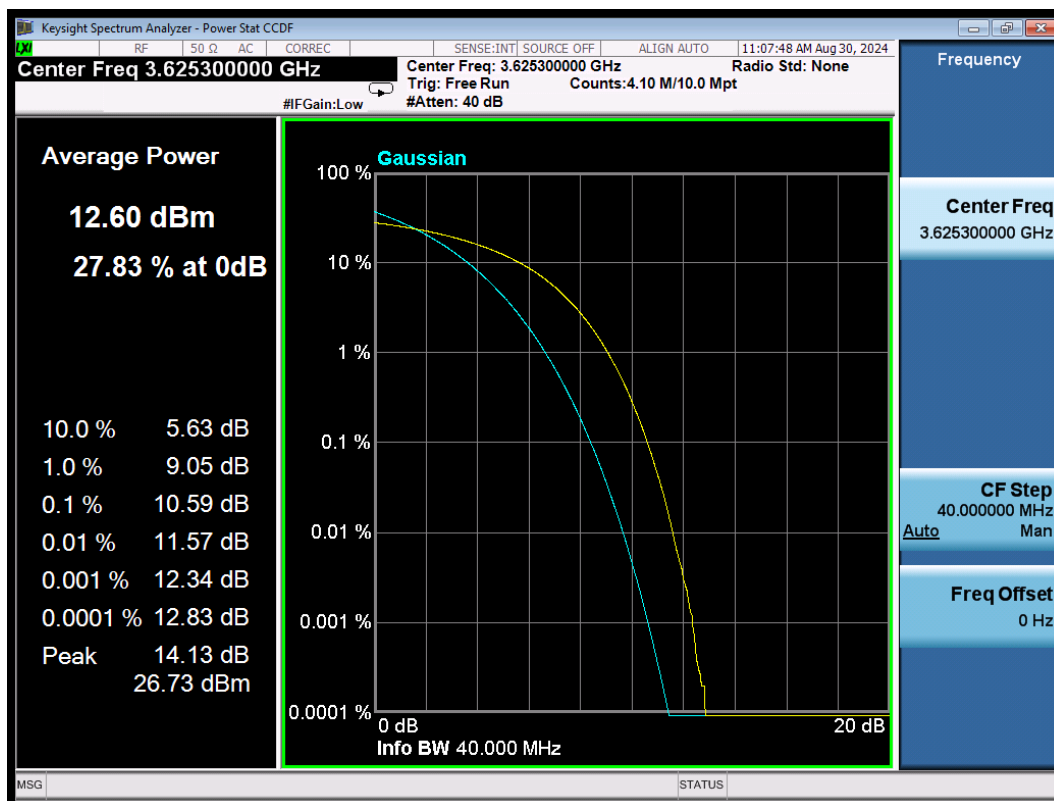
CA_48B 64QAM\20MHz+20MHz Middle



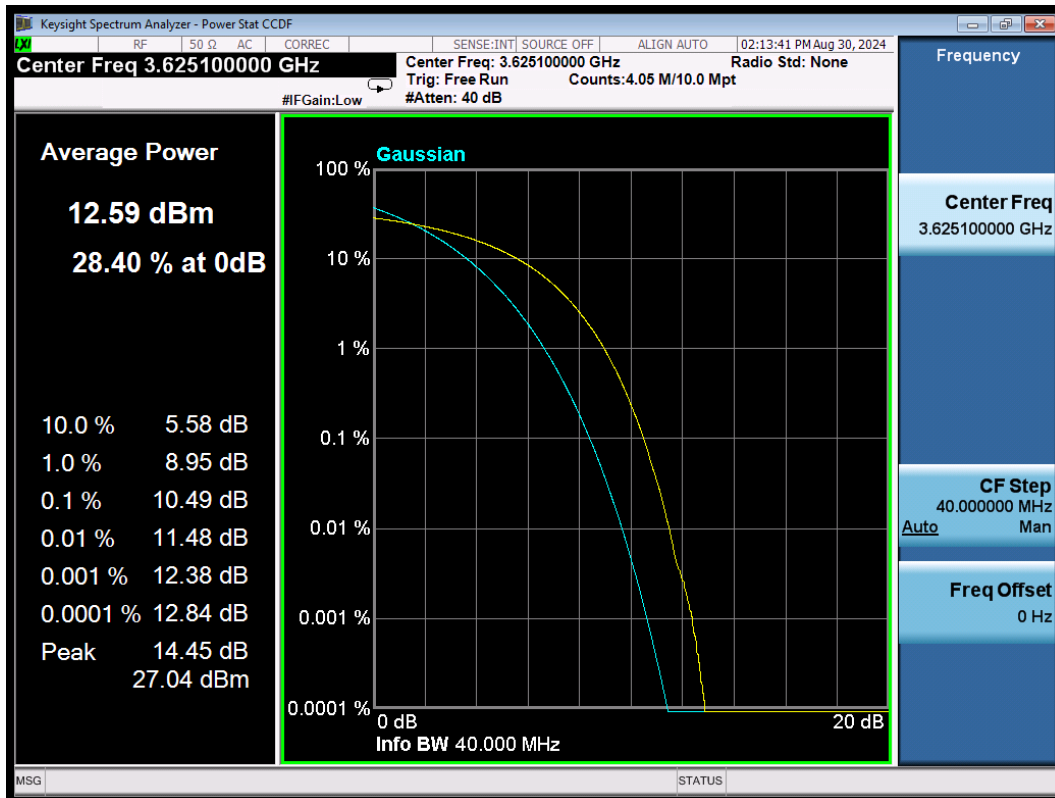
CA_48B 64QAM\20MHz+5MHz Middle



CA_48B 64QAM\5MHz+20MHz Middle



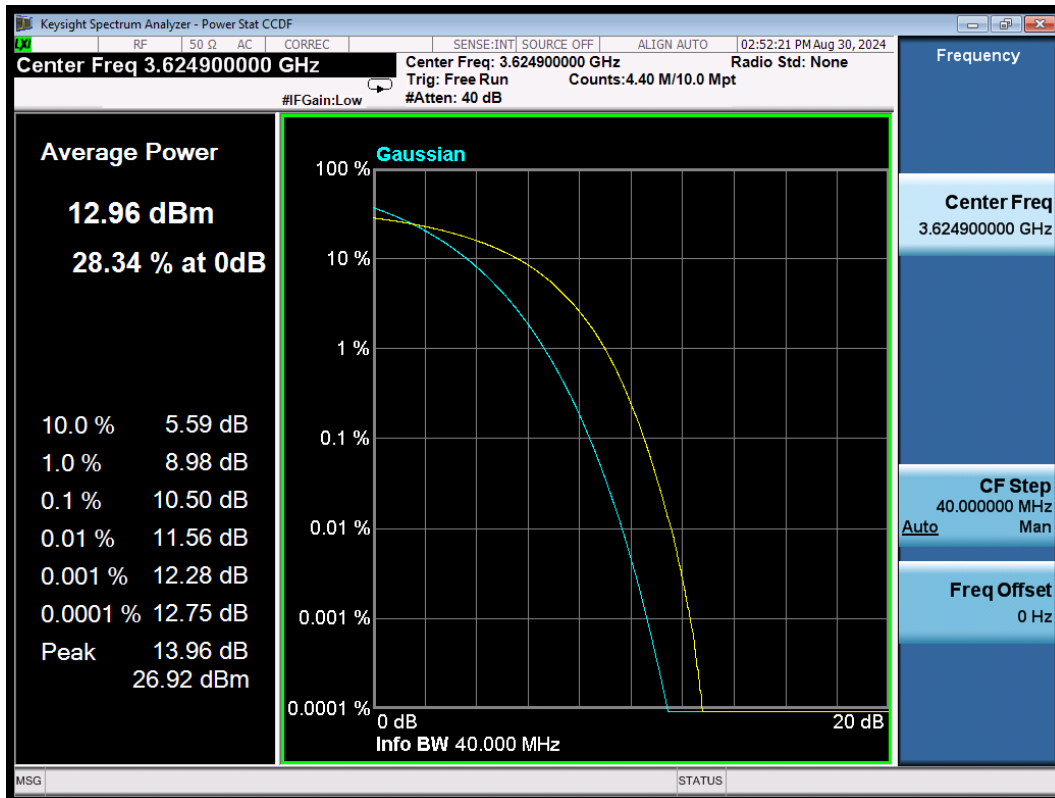
CA_48B 256QAM\10MHz+20MHz Middle



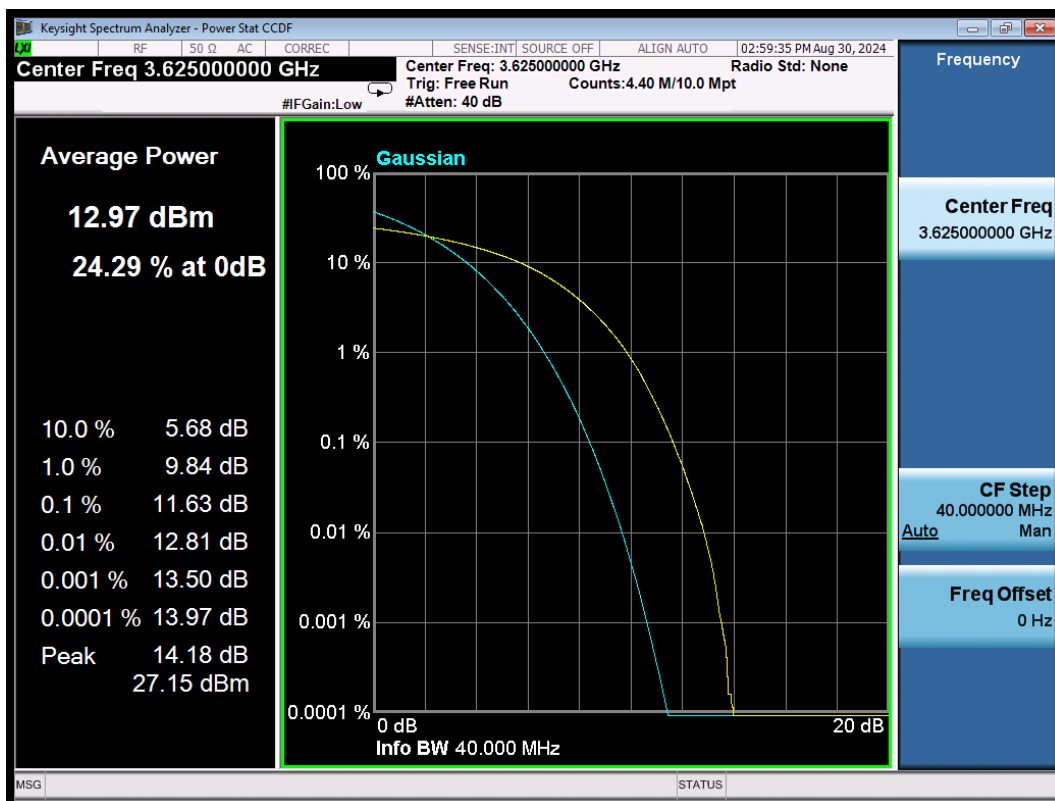
CA_48B 256QAM\15MHz+20MHz Middle



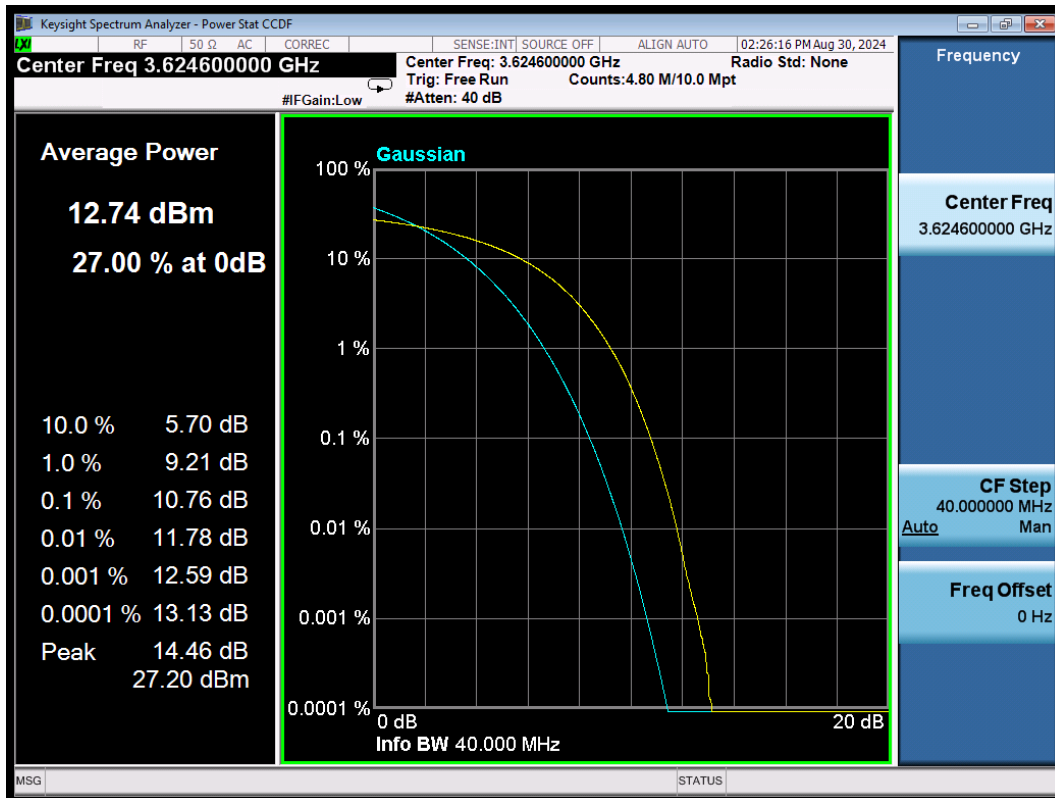
CA_48B 256QAM\20MHz+10MHz Middle



CA_48B 256QAM\20MHz+15MHz Middle



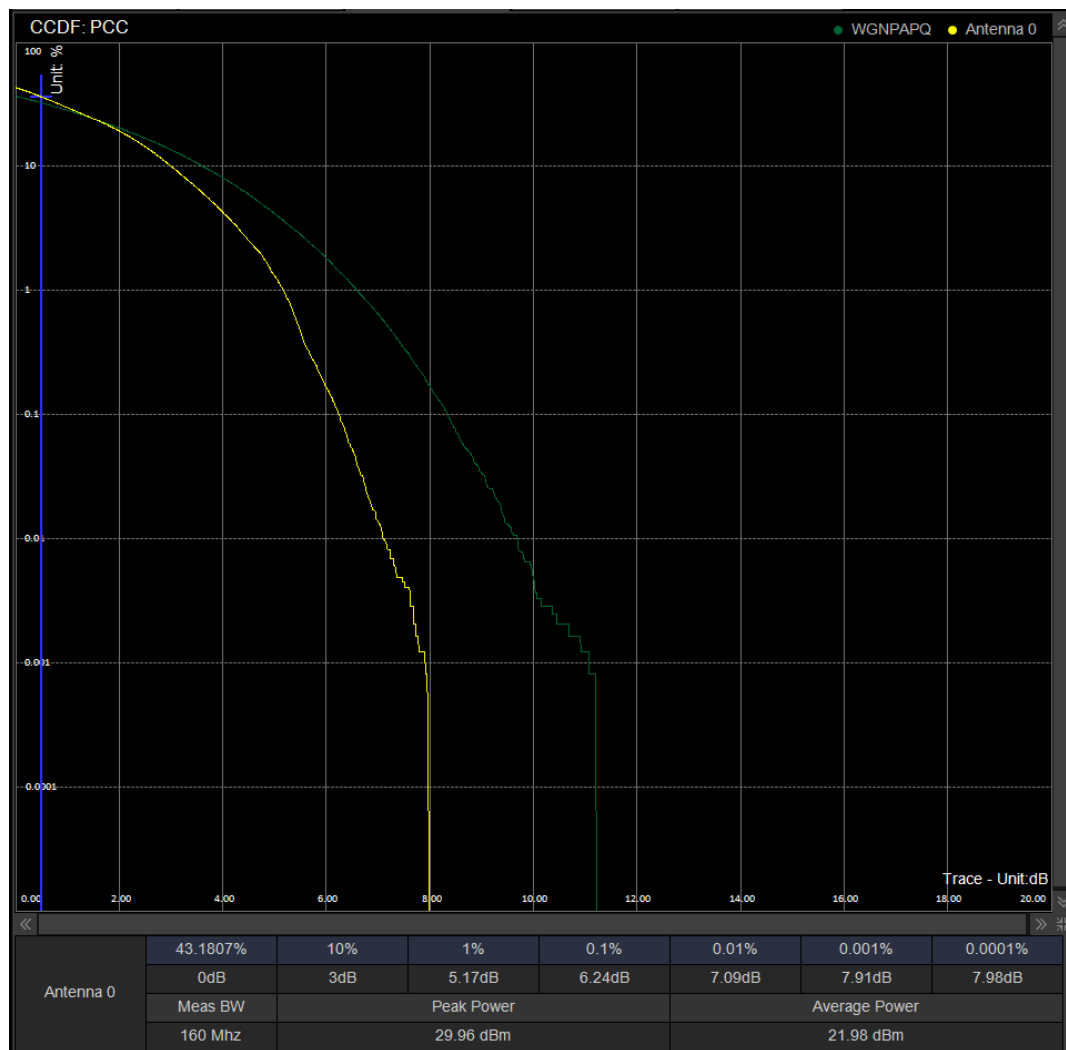
CA_48B 256QAM\20MHz+20MHz Middle



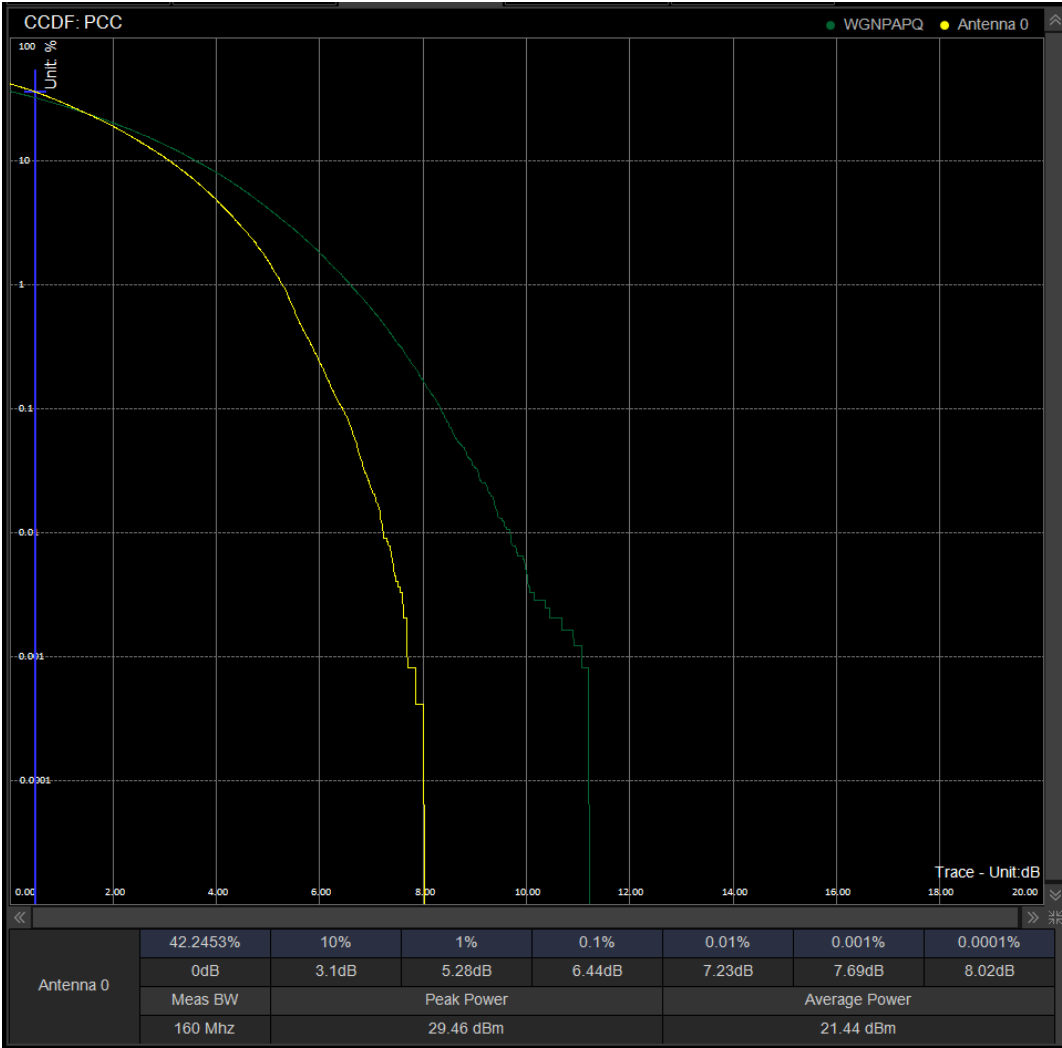
CA_48B 256QAM\20MHz+5MHz Middle



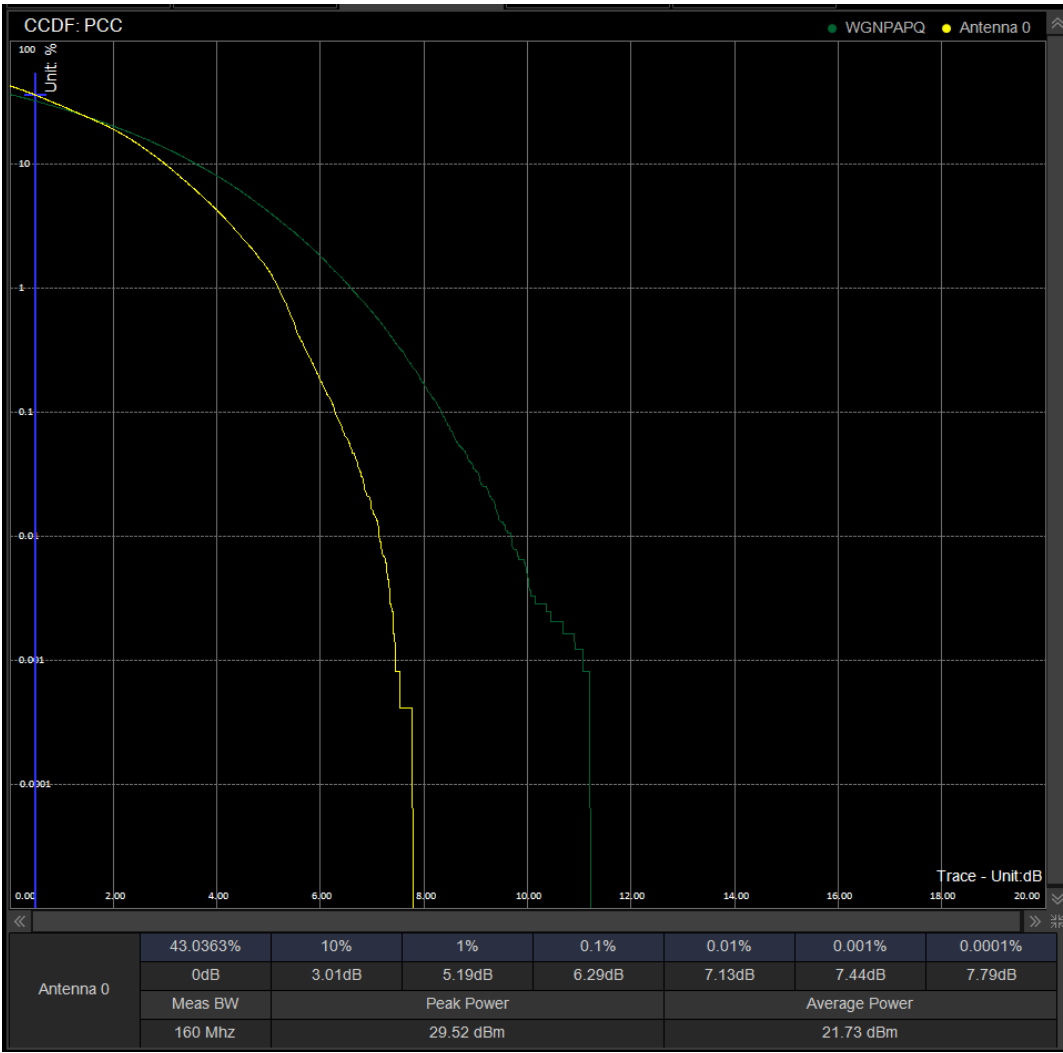
CA_48B 256QAM\5MHz+20MHz Middle



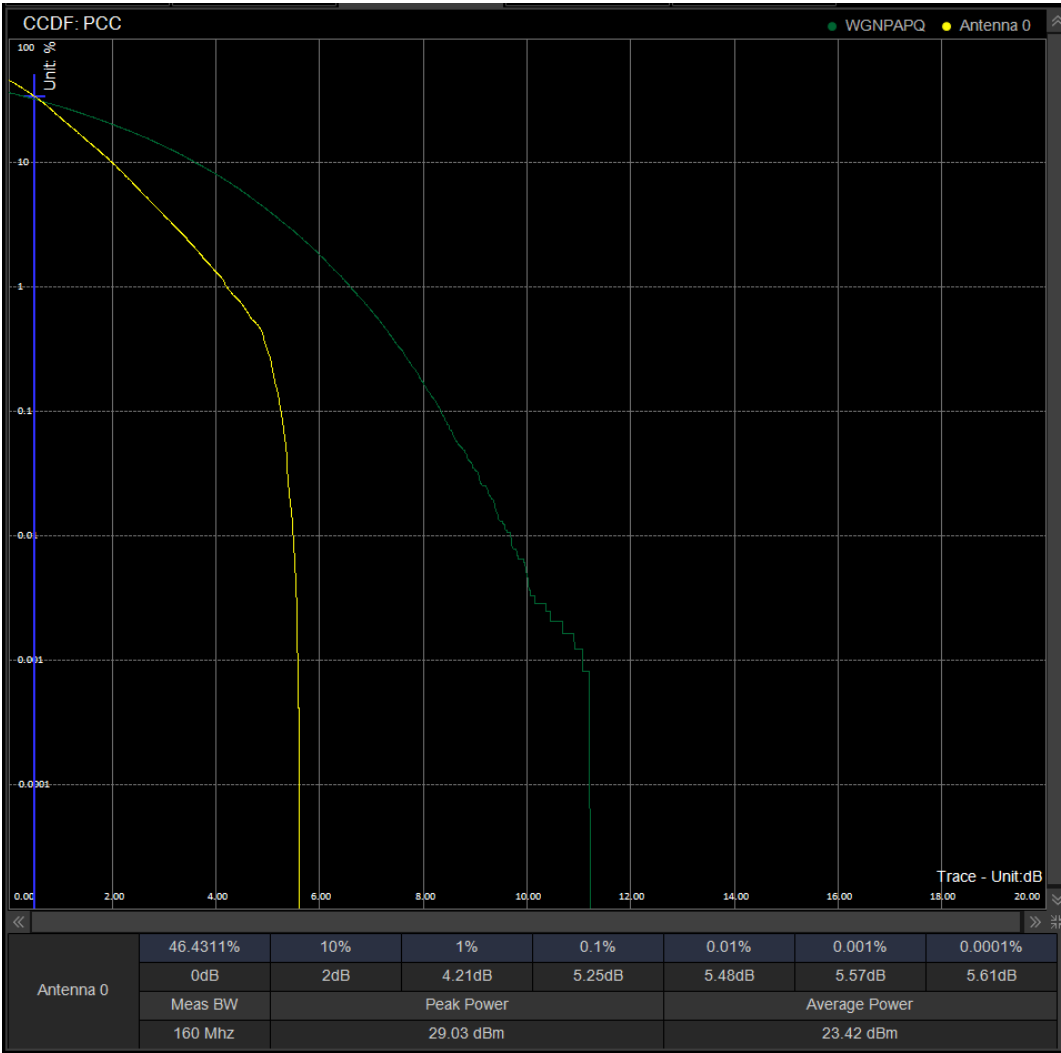
SA\PC3\NR n48\100M 16QAM



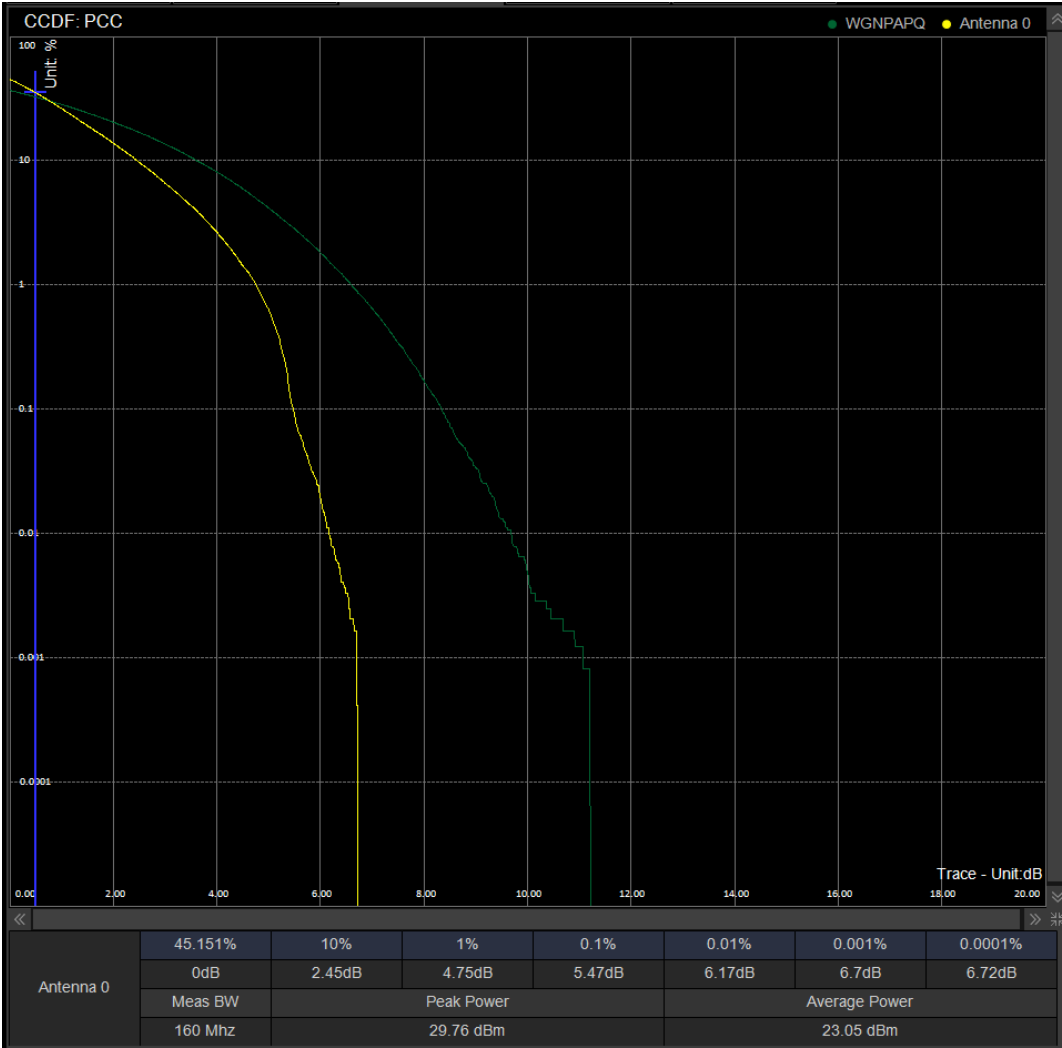
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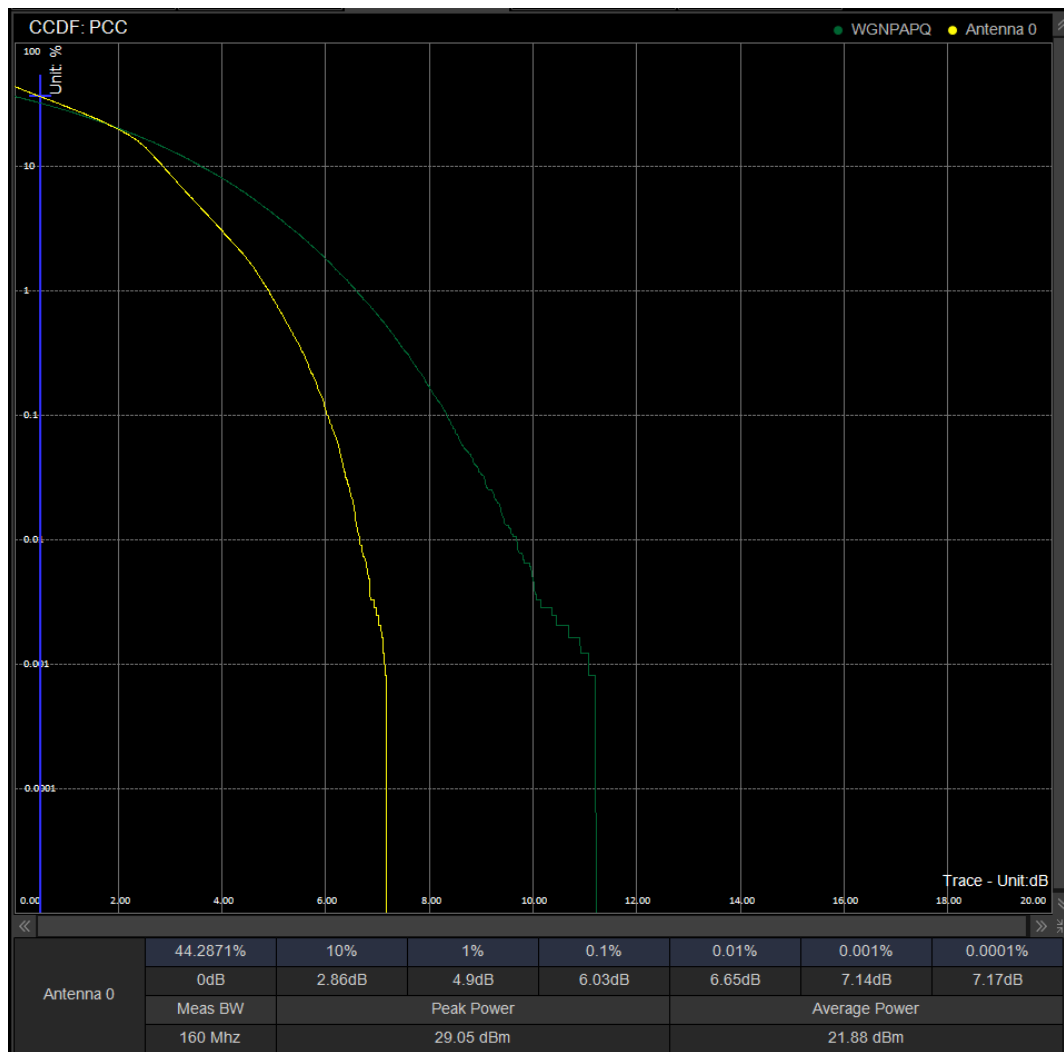
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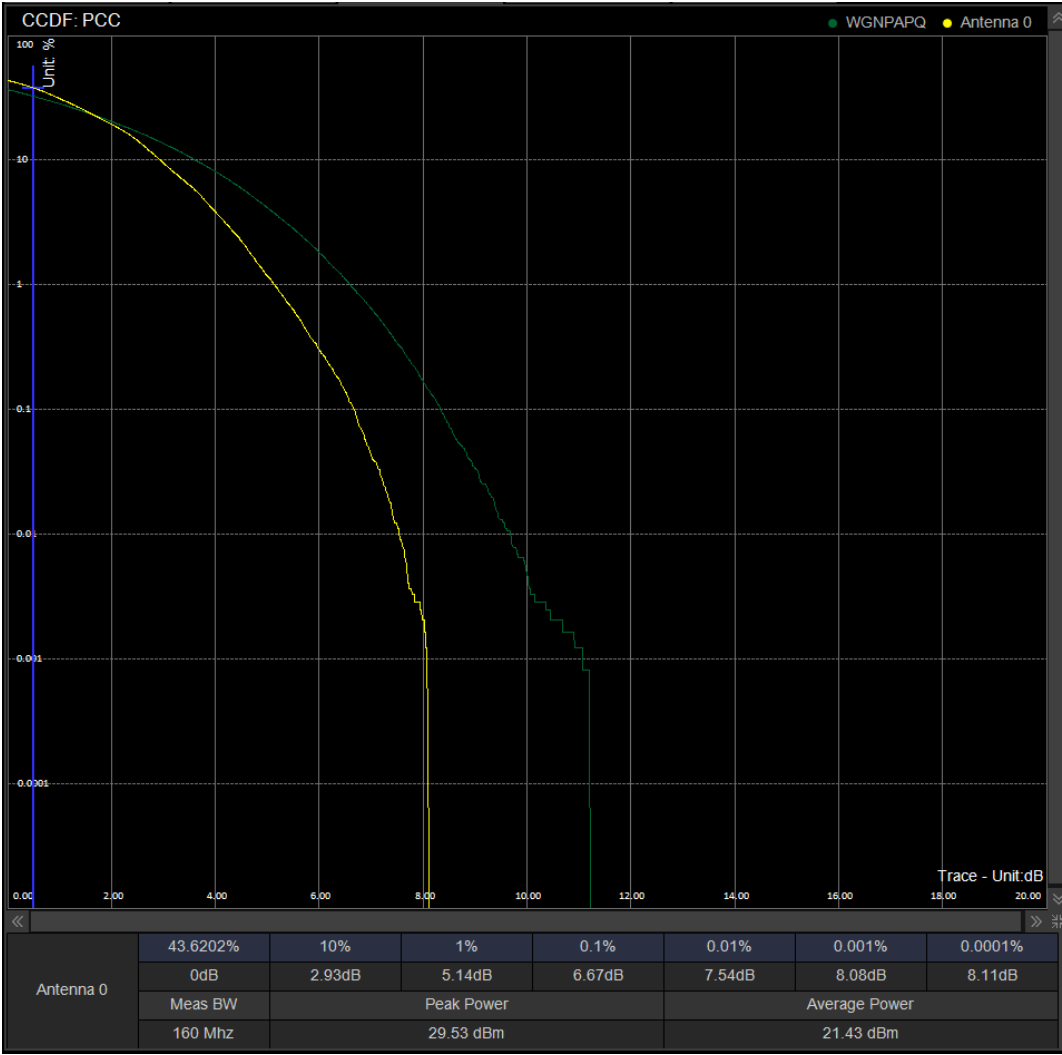
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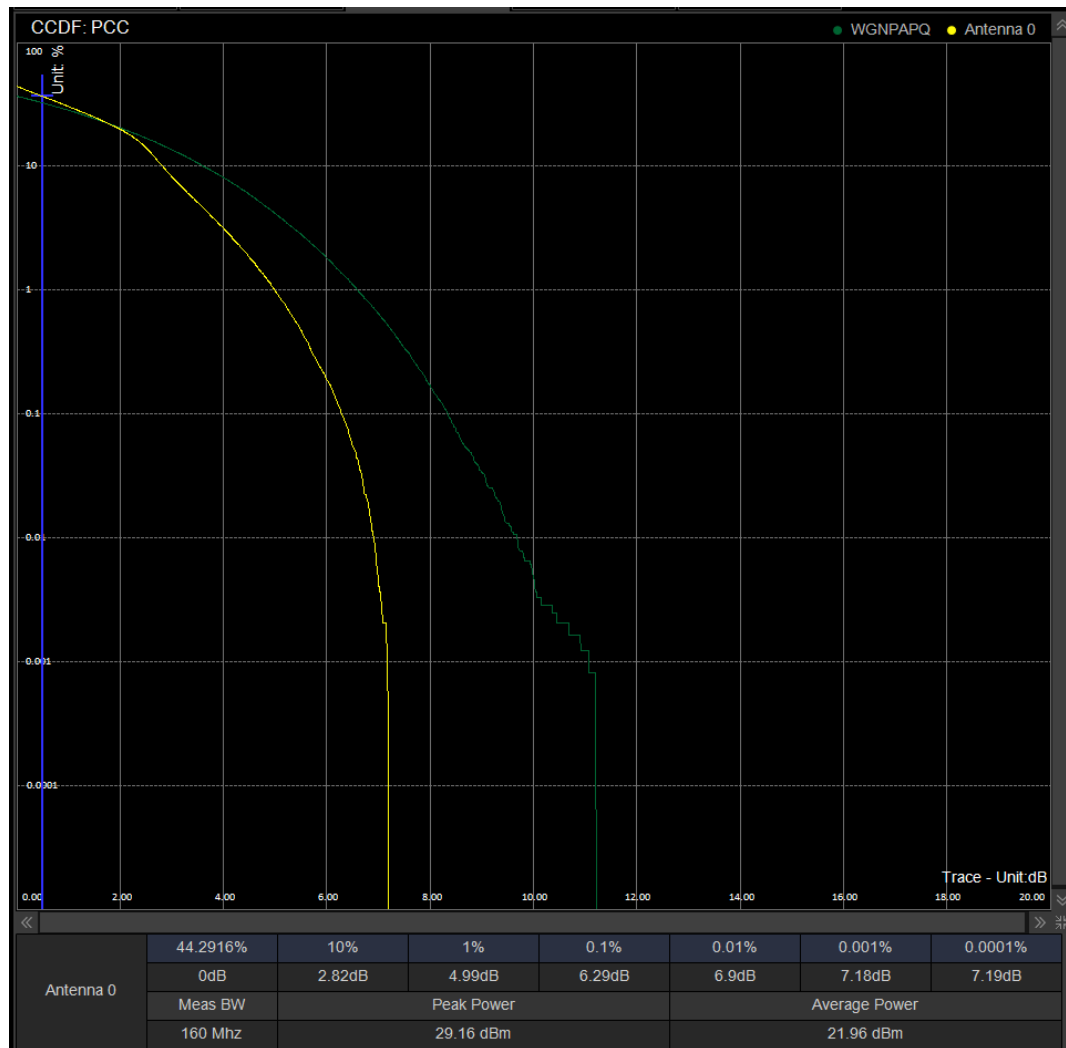
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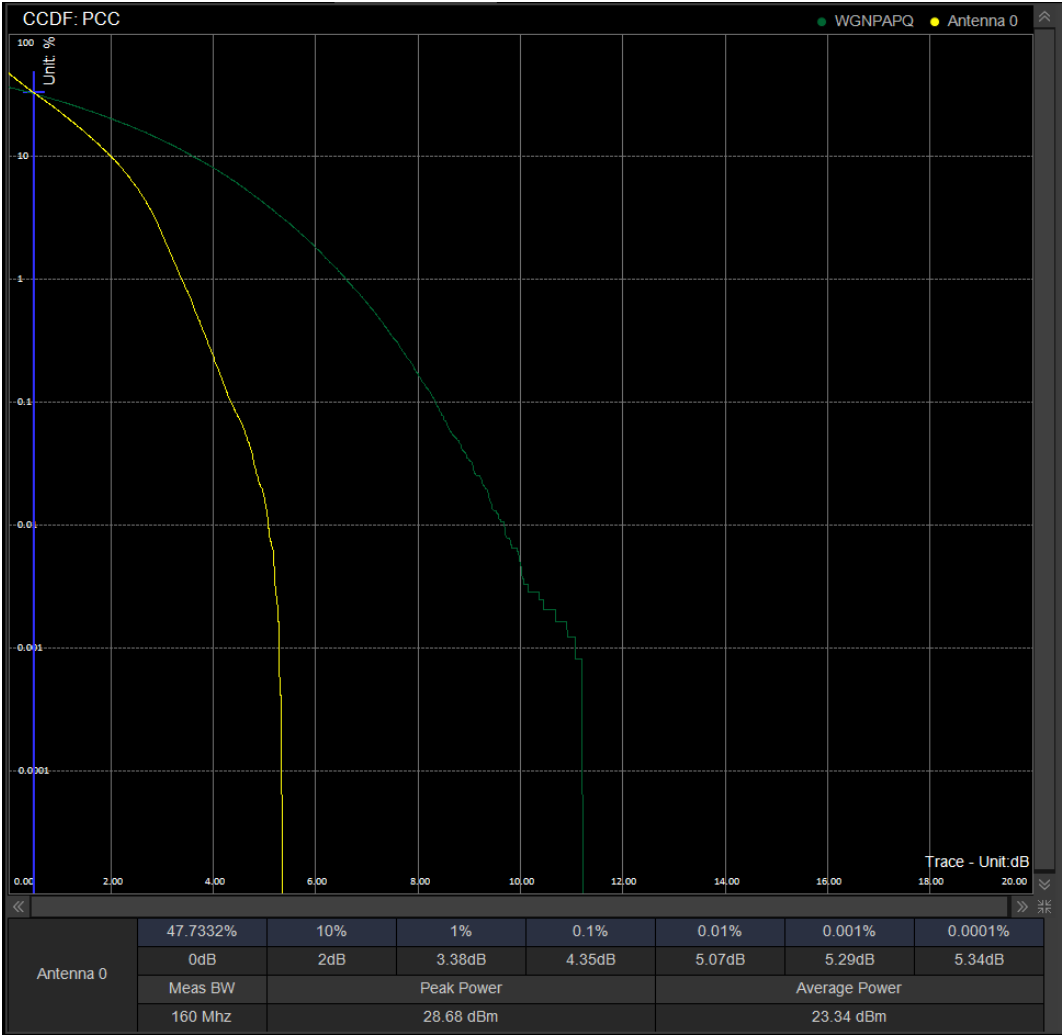
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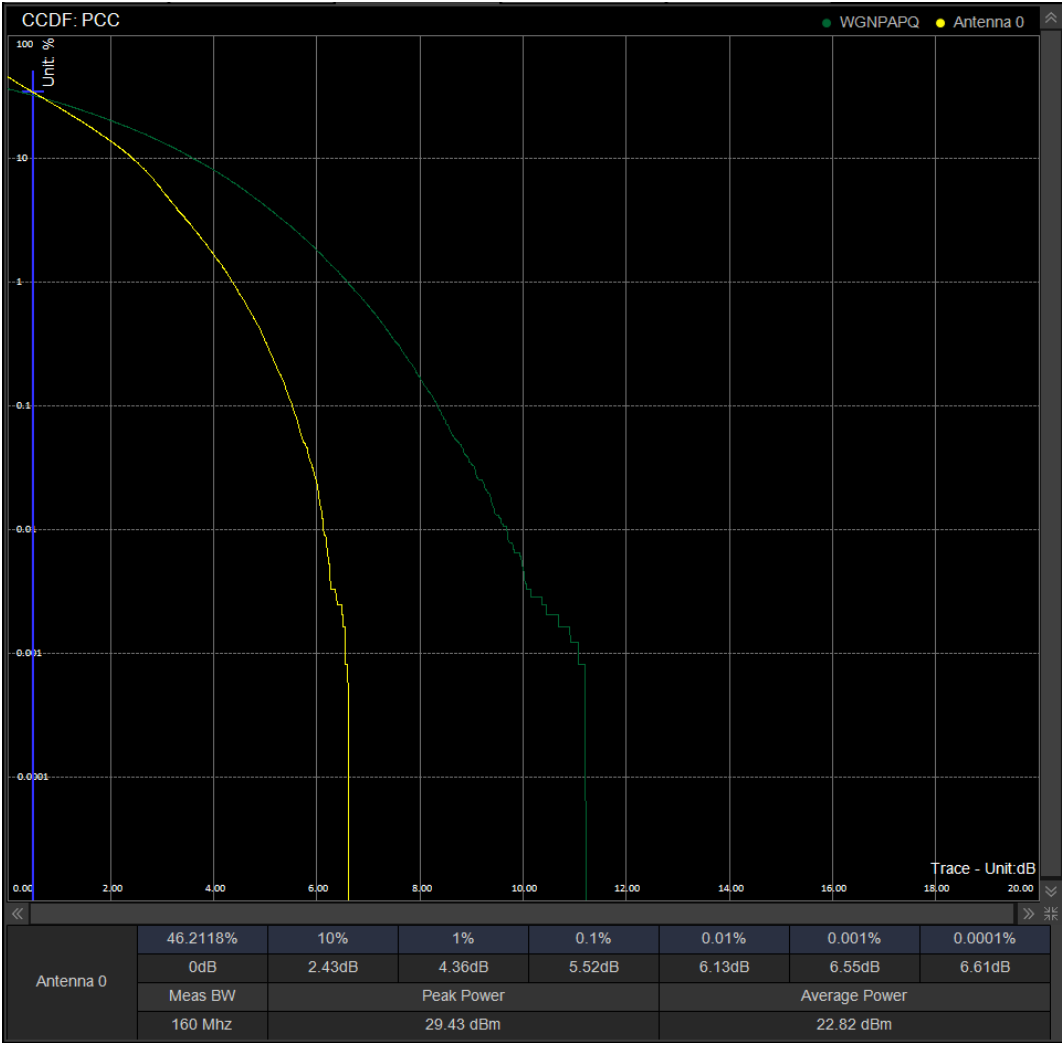
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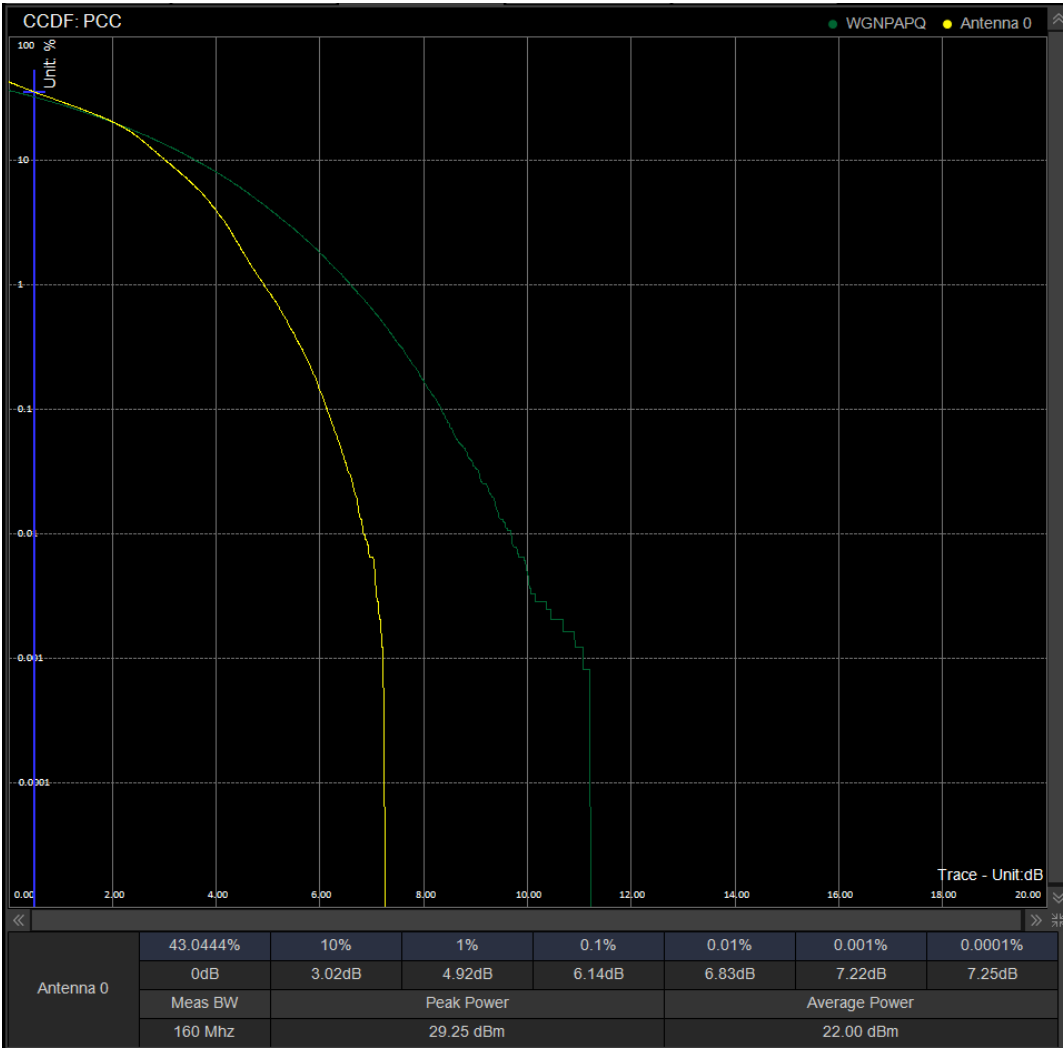
SA\PC3\NR n48\10M 64QAM



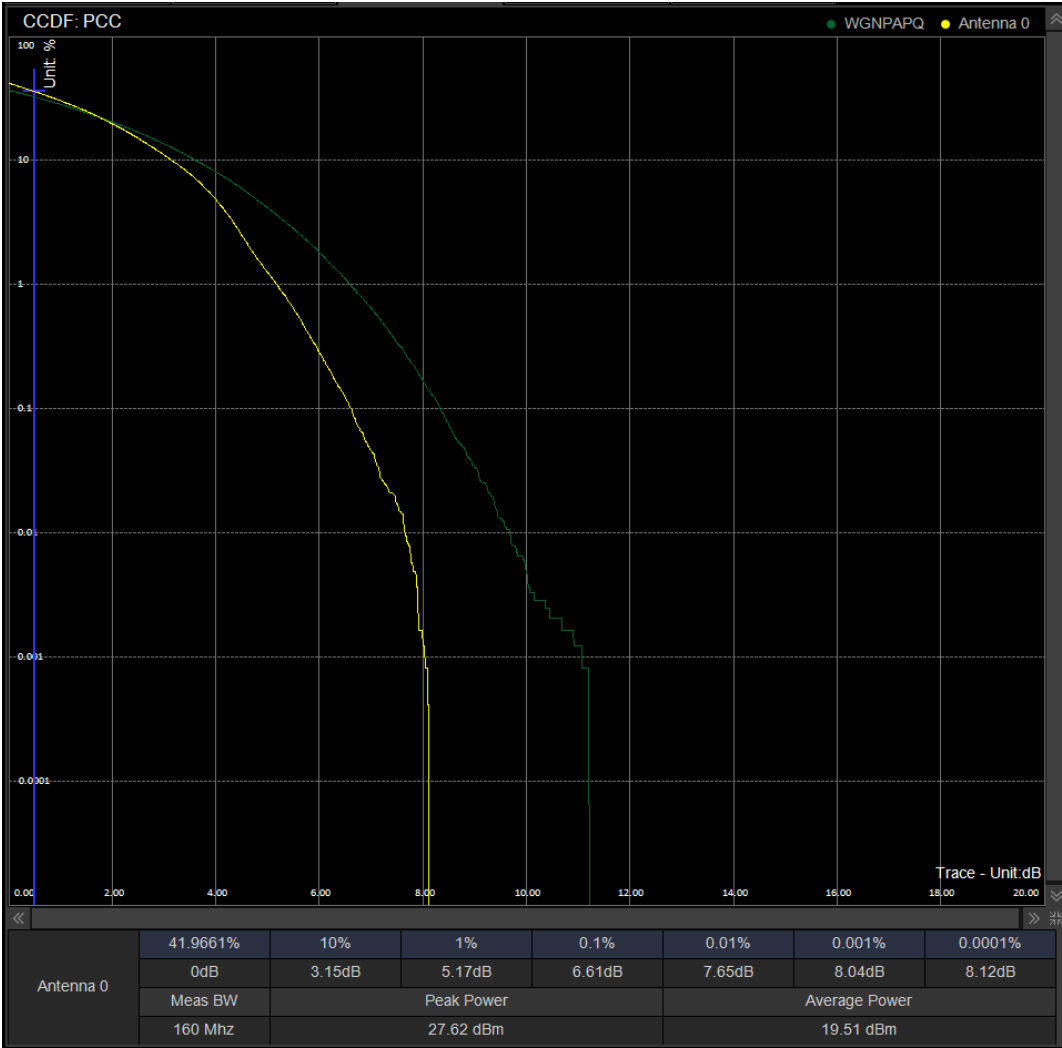
SA\PC3\NR n48\10M BPSK



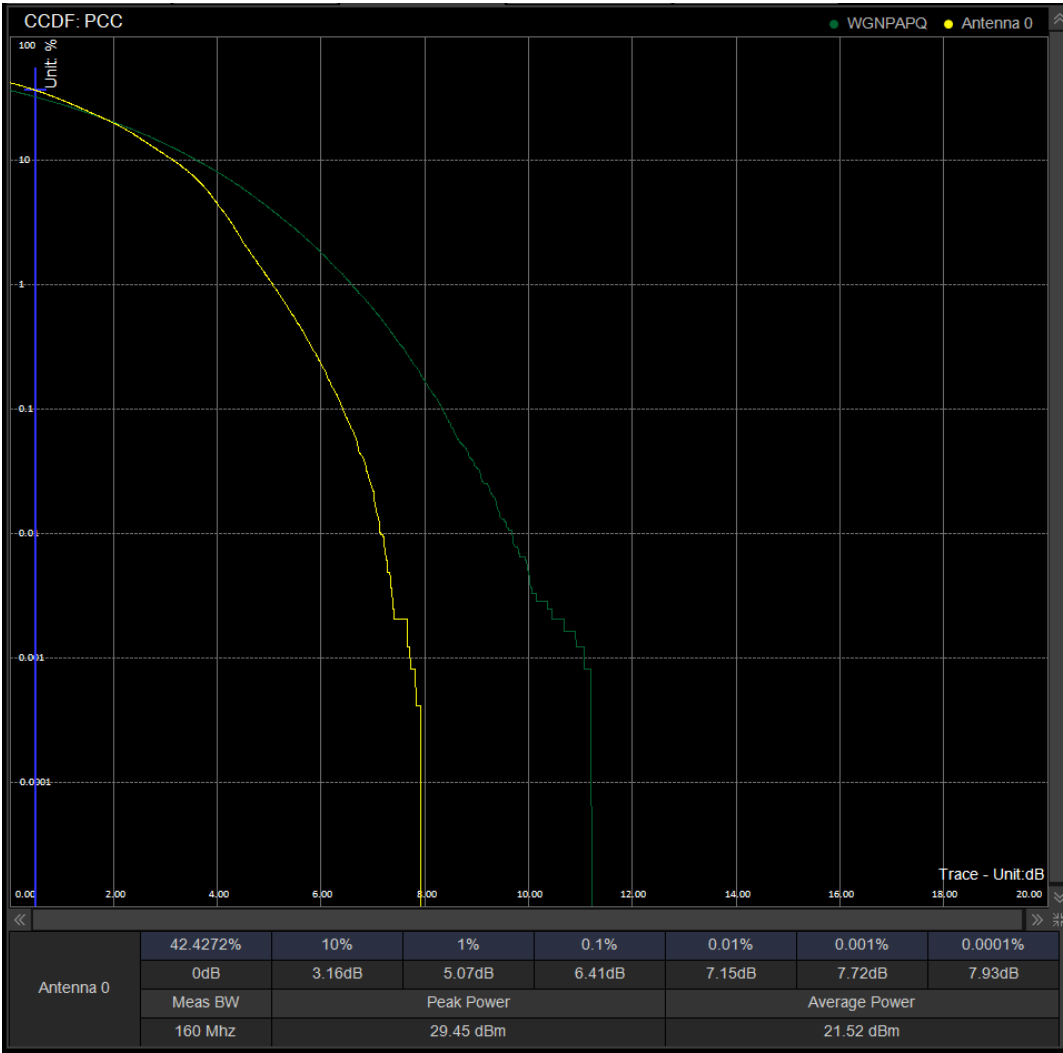
SA\PC3\NR n48\10M QPSK



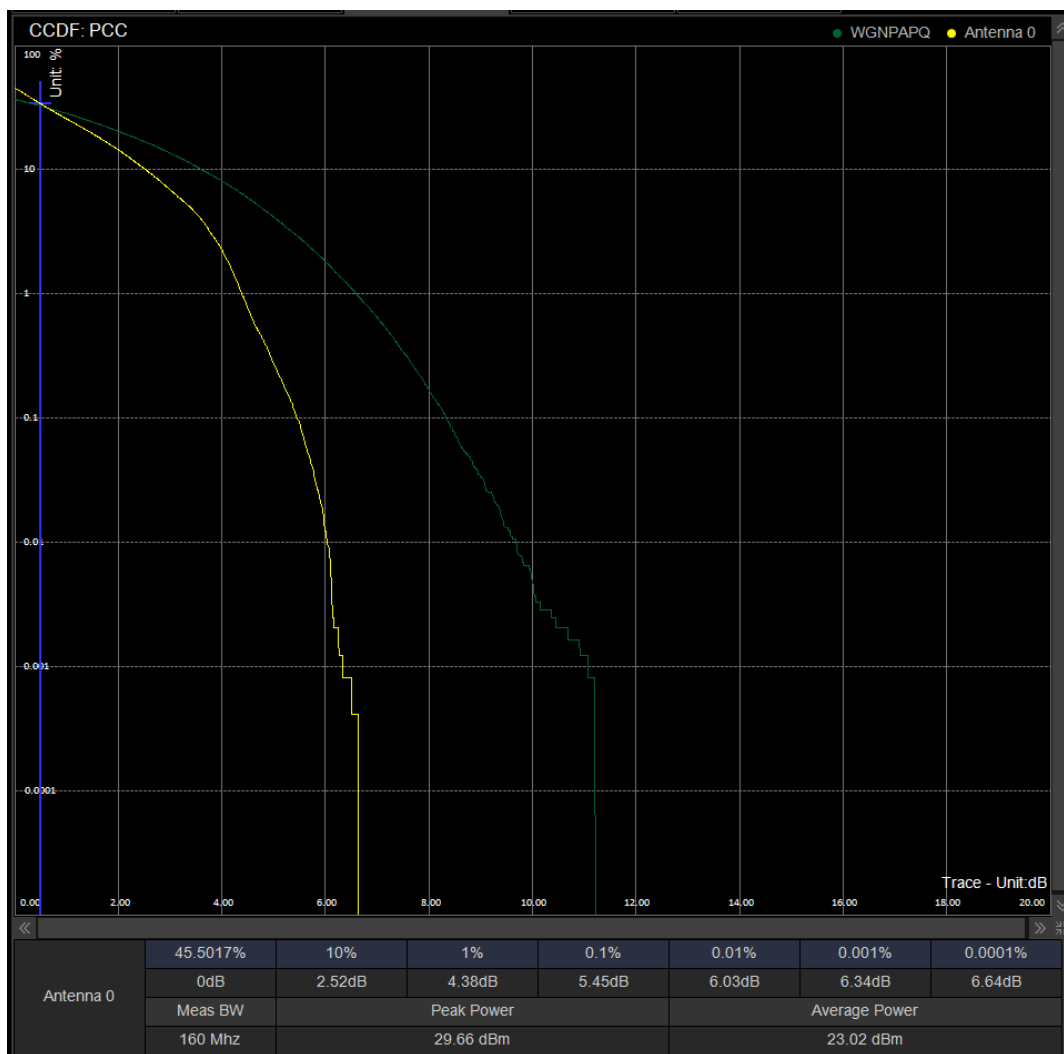
SA\PC3\NR n48\50M 16QAM



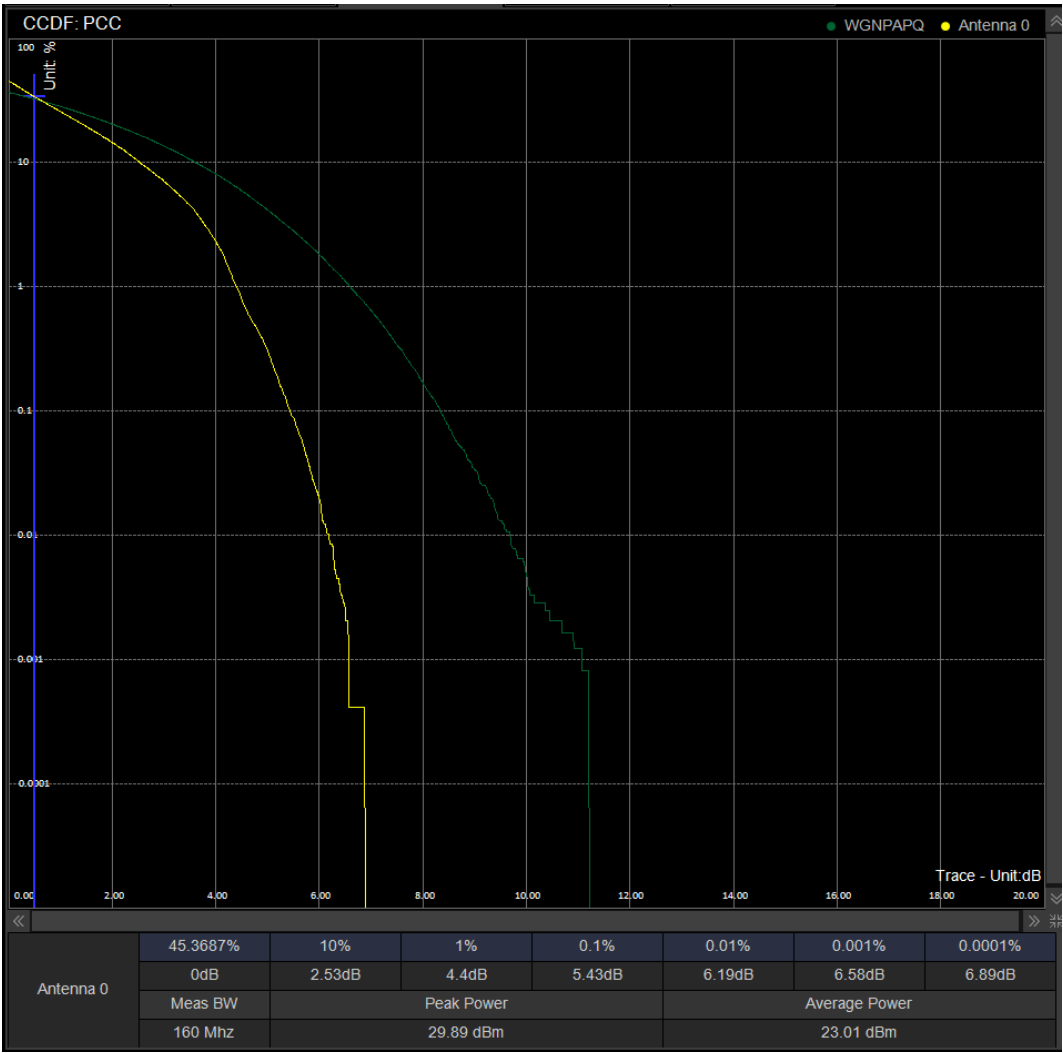
SA\PC3\NR n48\50M 256QAM



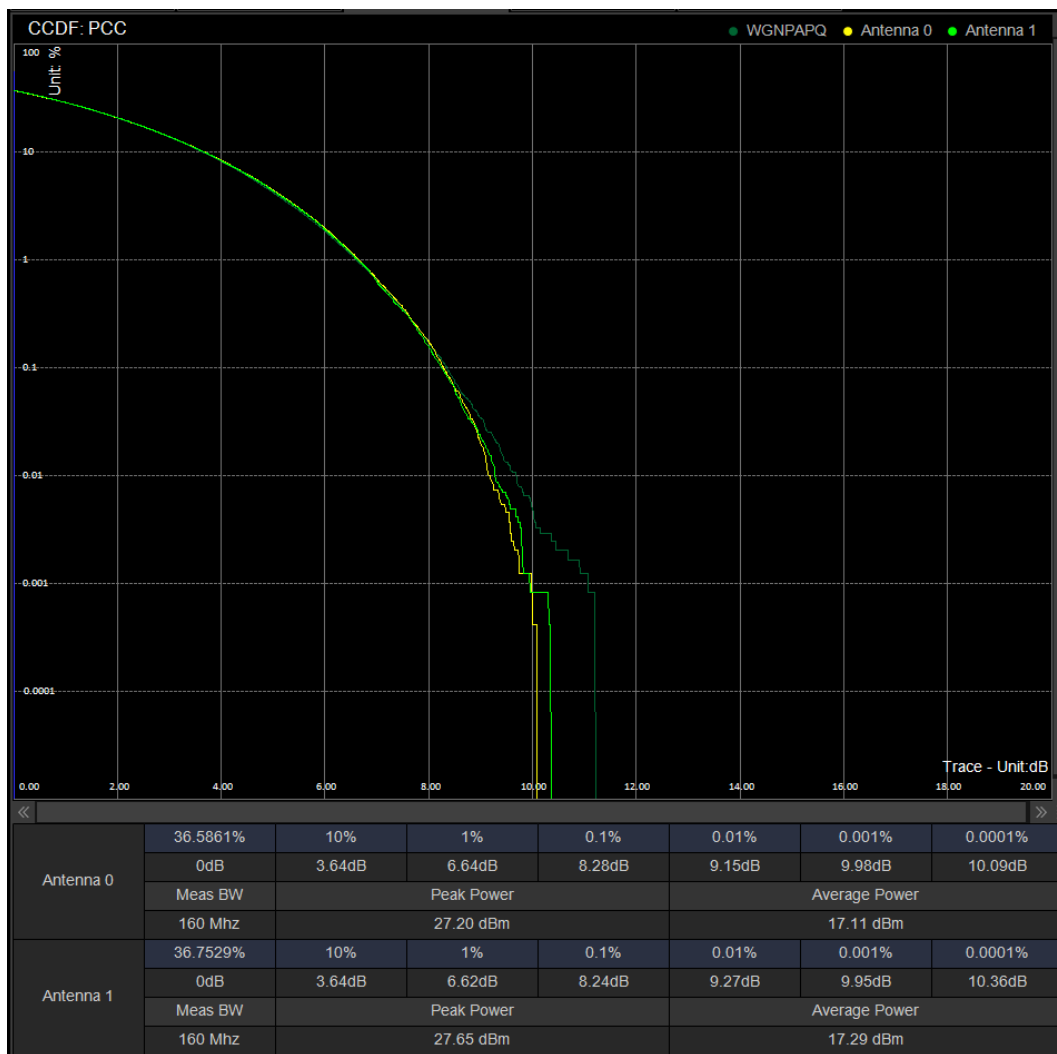
SA\PC3\NR n48\50M 64QAM



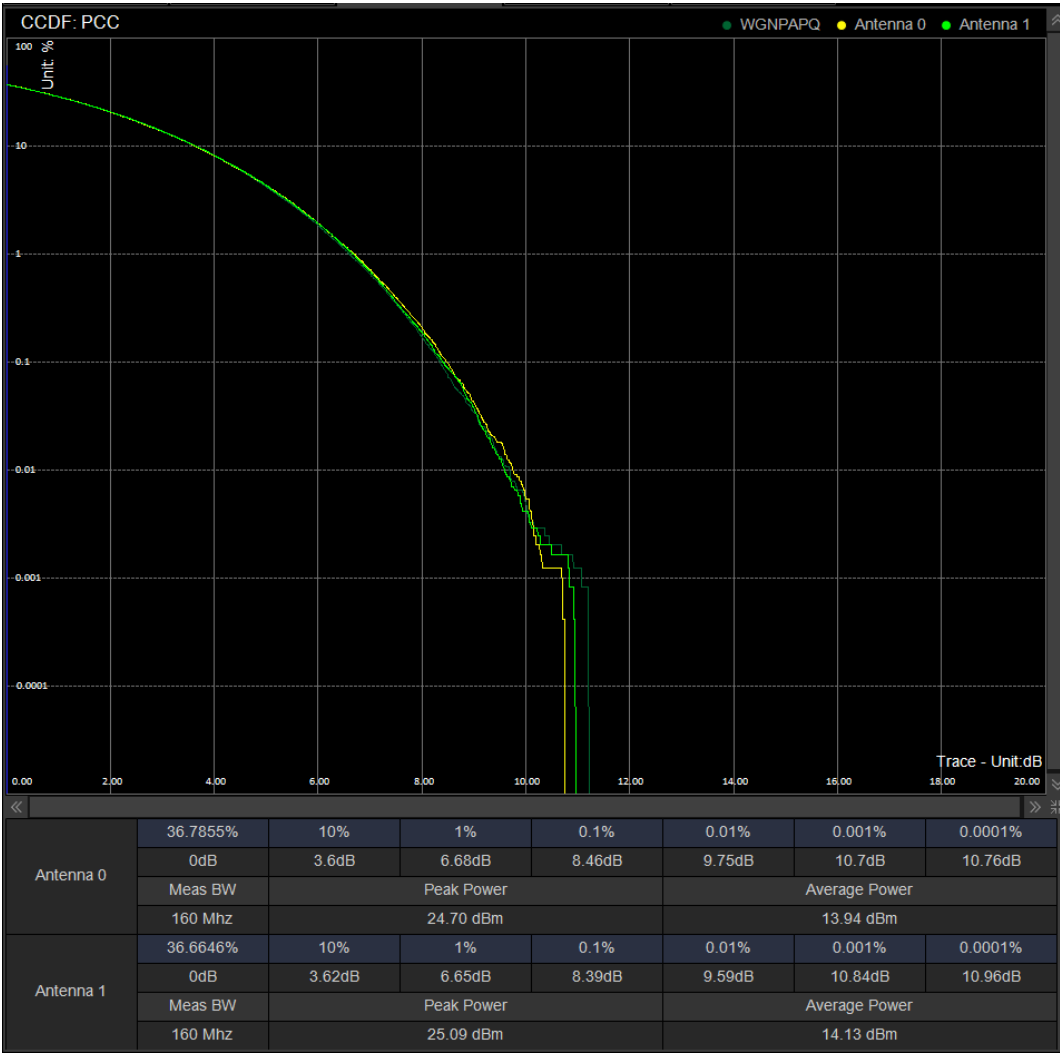
SA\PC3\NR n48\50M BPSK



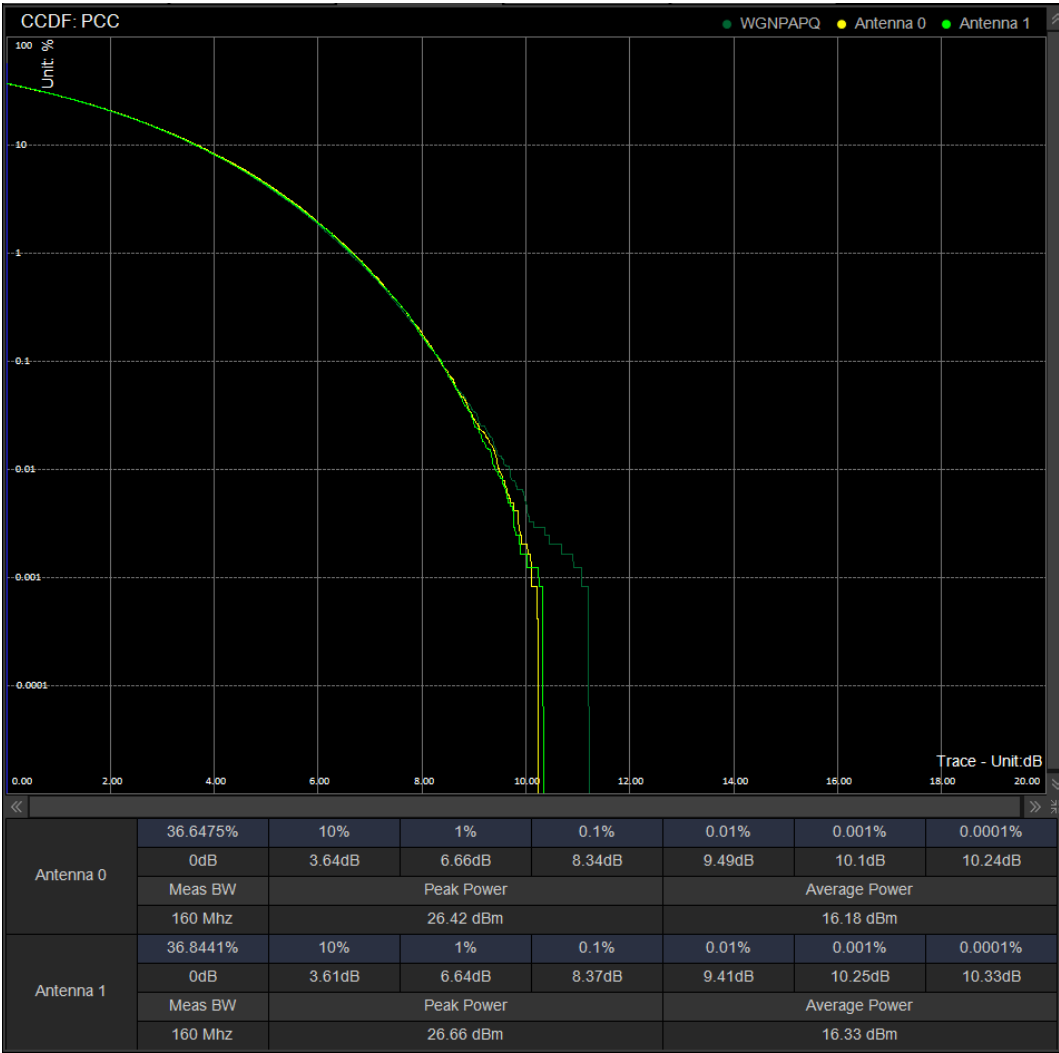
SA\PC3\NR n48\50M QPSK



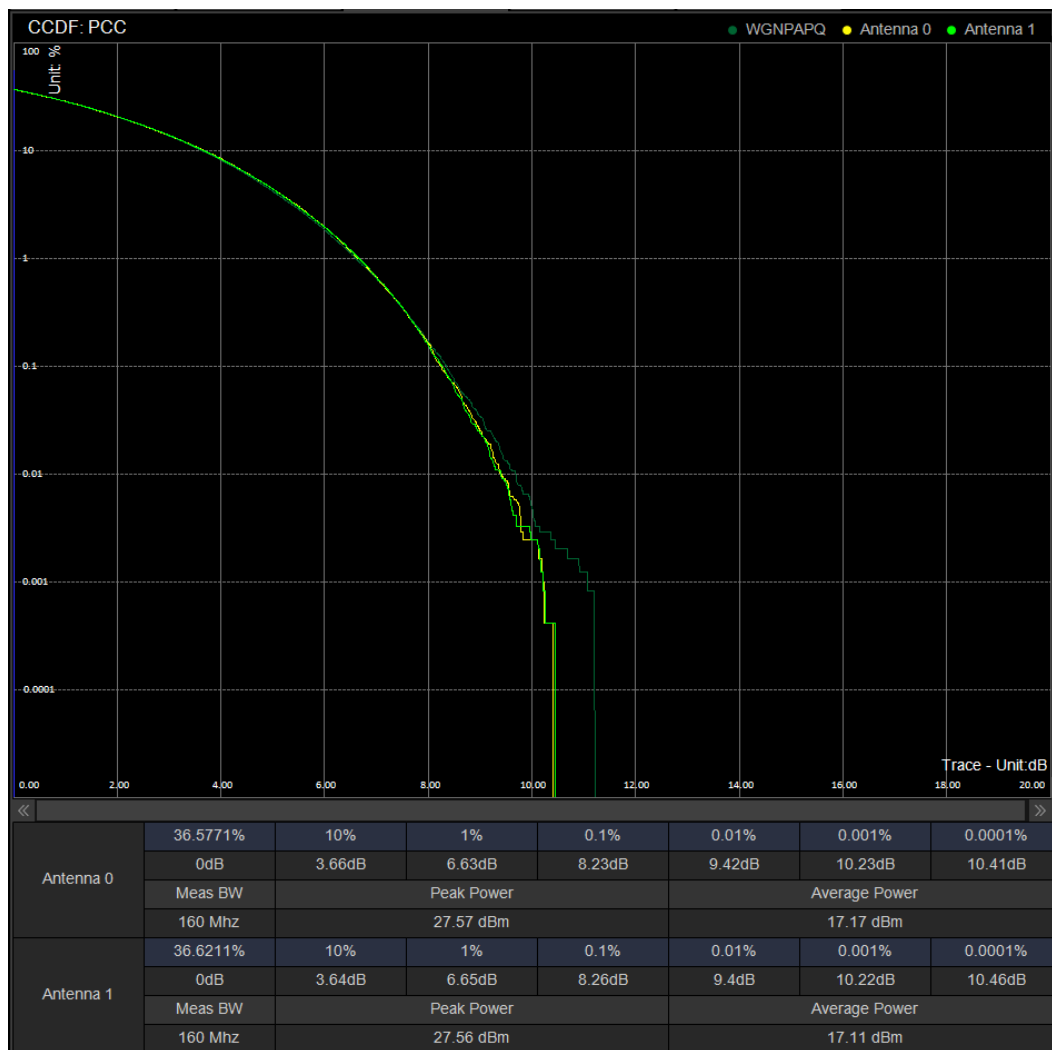
MIMO\PC3\NR n48\100M 16QAM



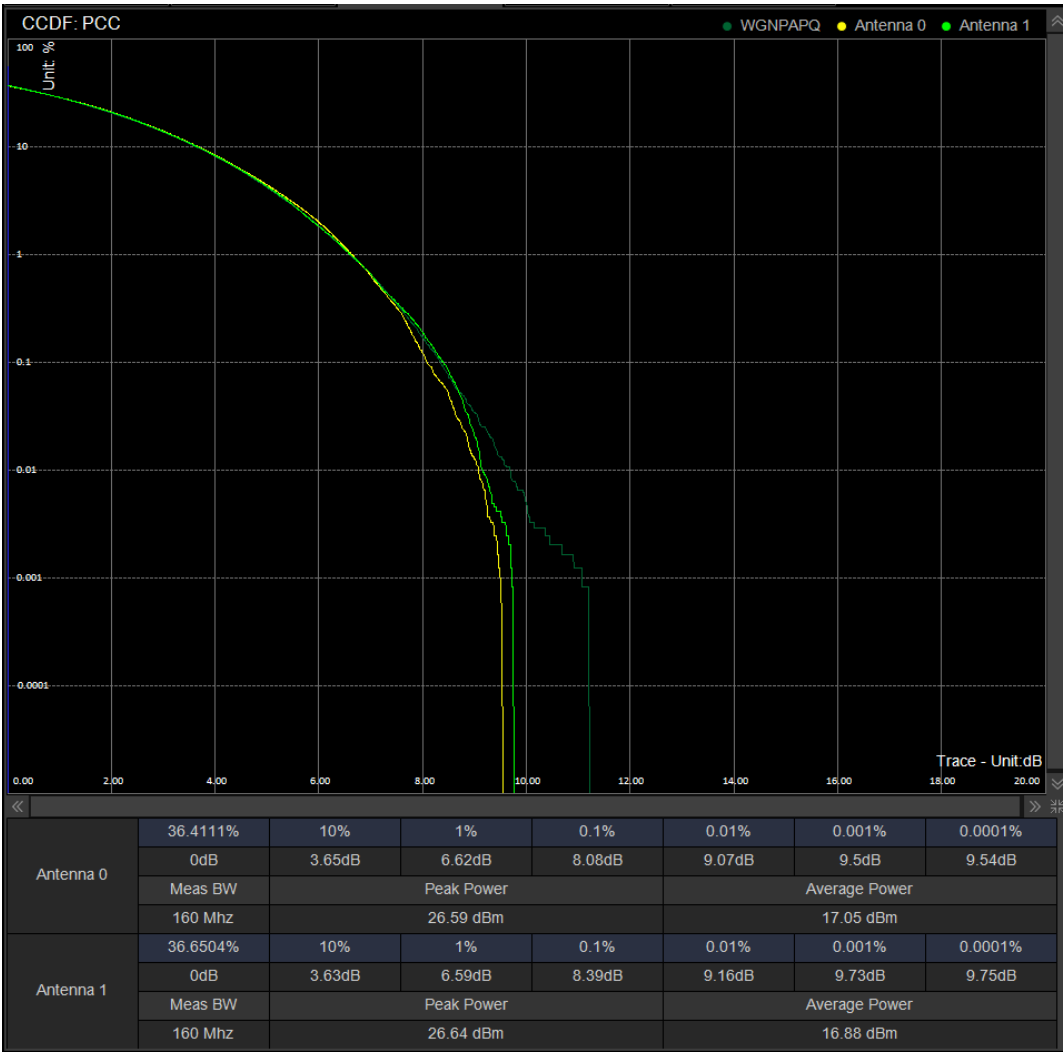
MIMO\PC3\NR n48\100M 256QAM



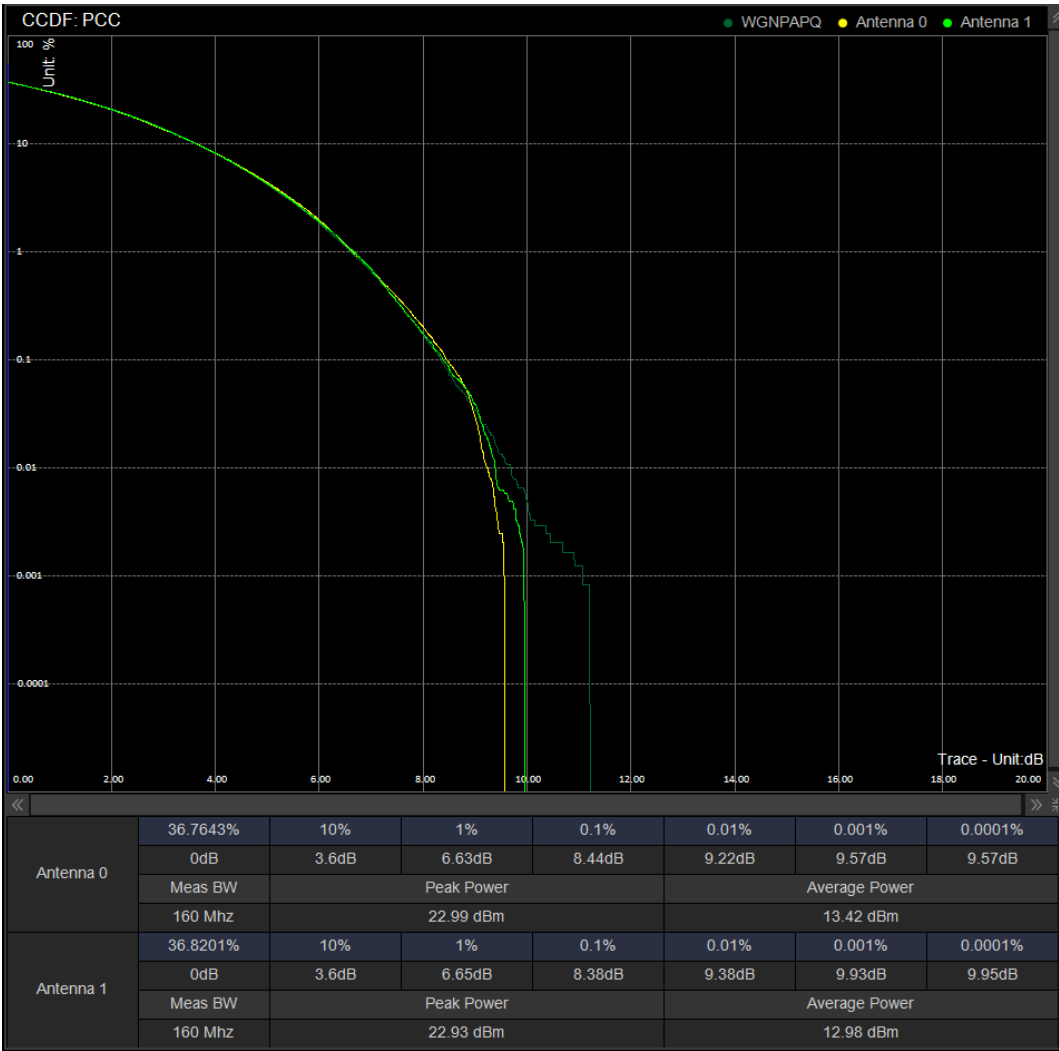
MIMO\PC3\NR n48\100M 64QAM



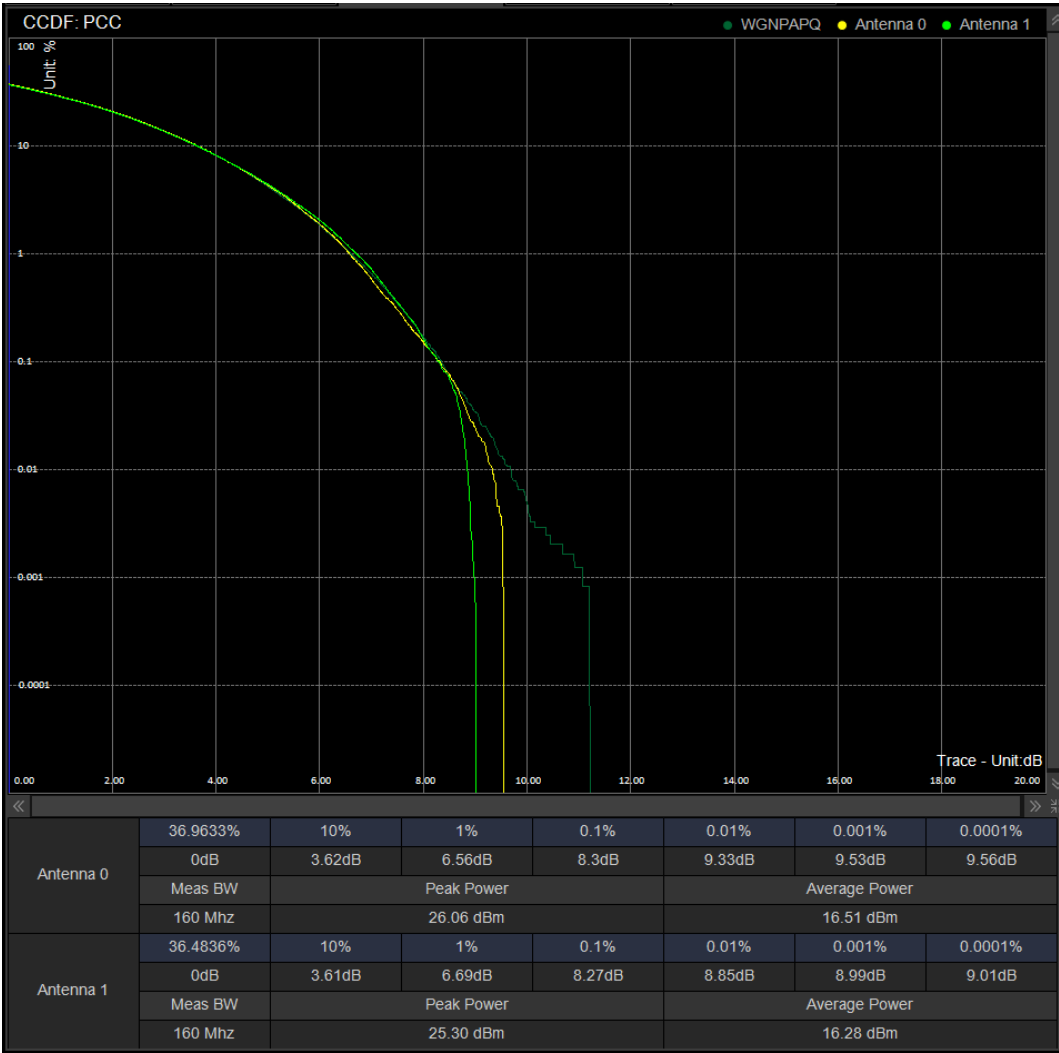
MIMO\PC3\NR n48\100M QPSK



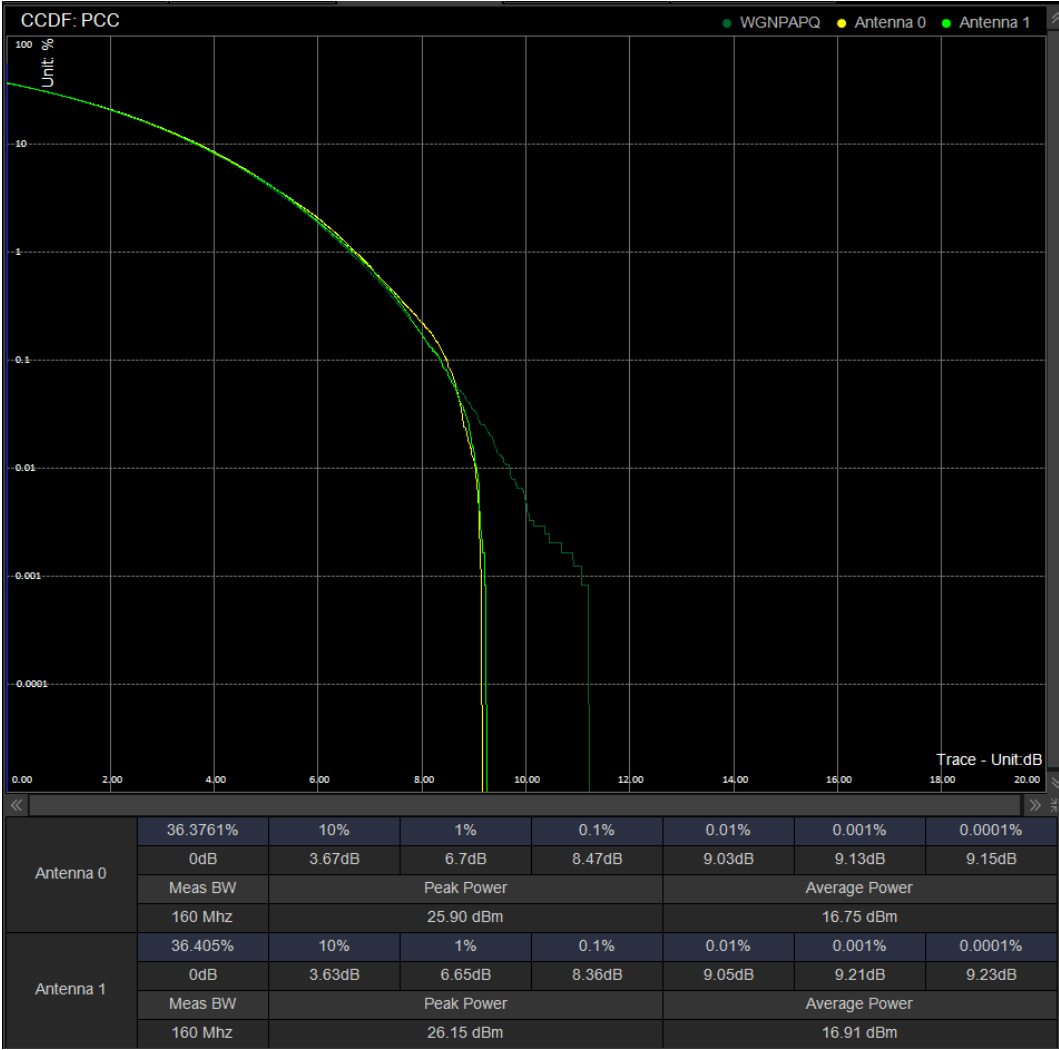
MIMO\PC3\NR n48\10M 16QAM



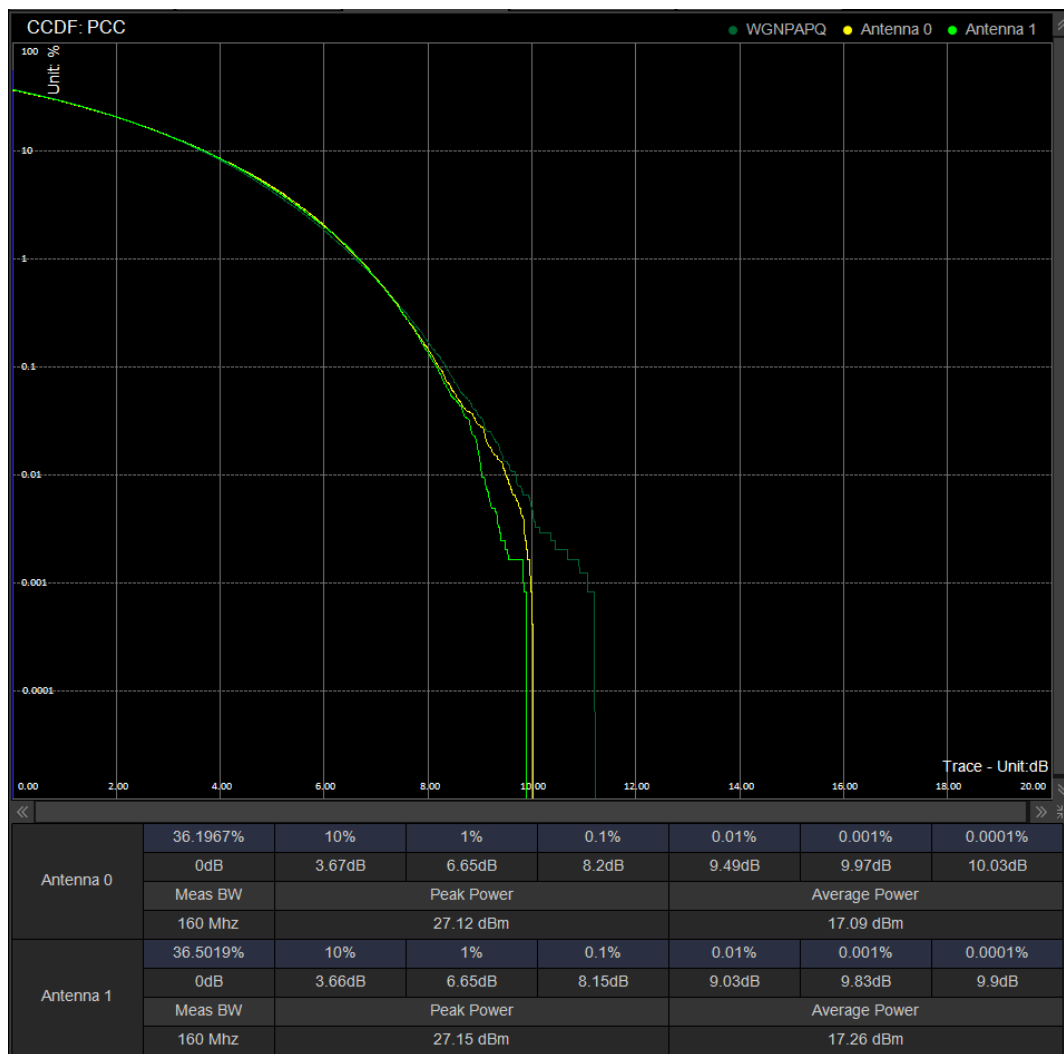
MIMO\PC3\NR n48\10M 256QAM



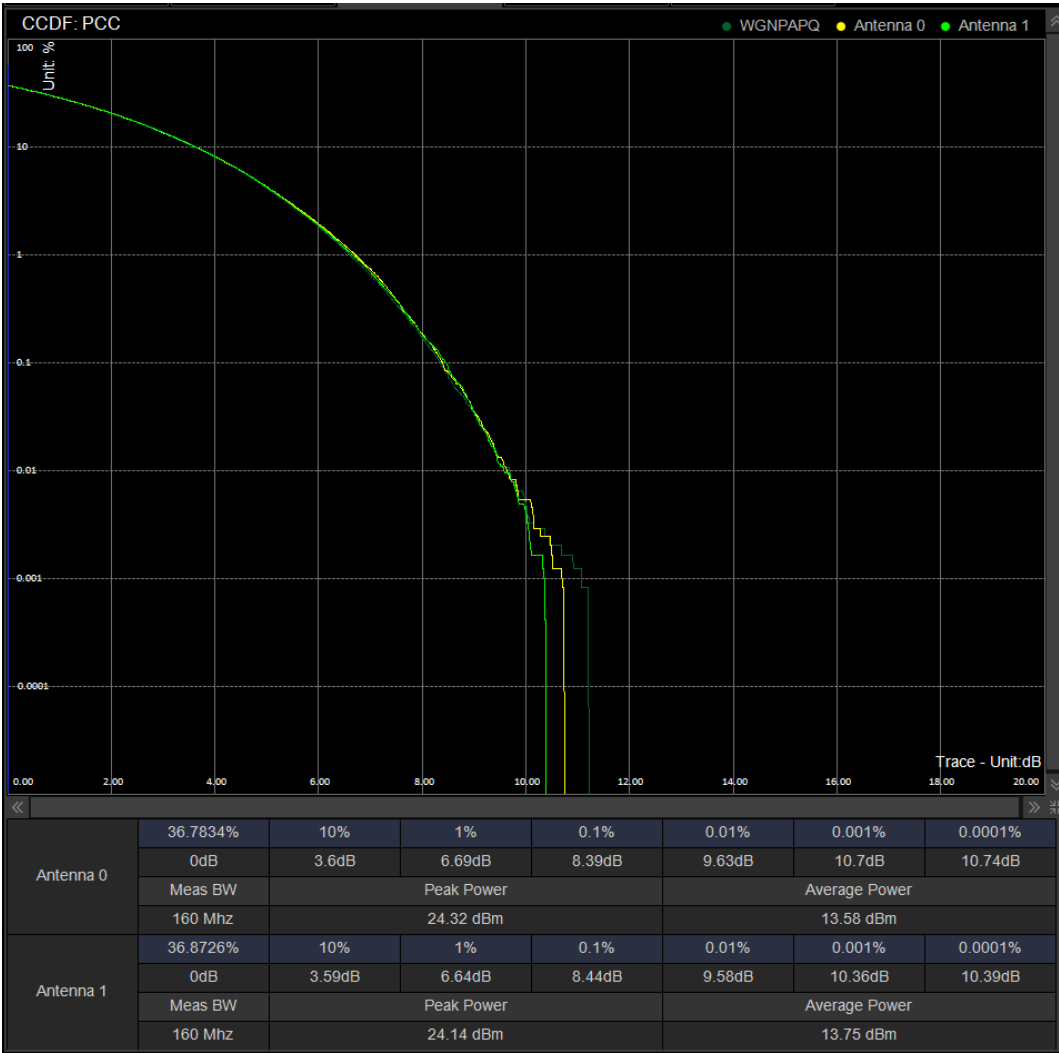
MIMO\PC3\NR n48\10M 64QAM



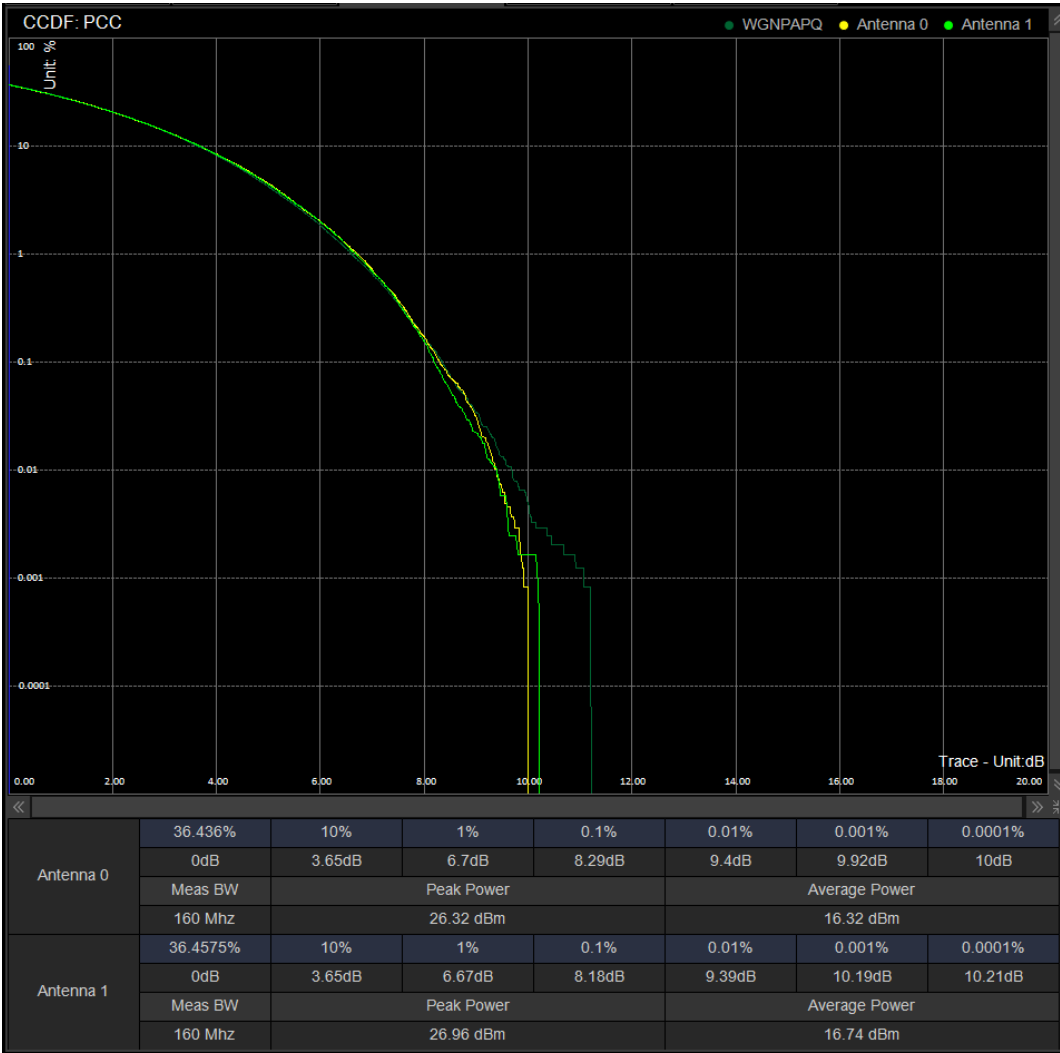
MIMO\PC3\NR n48\10M QPSK



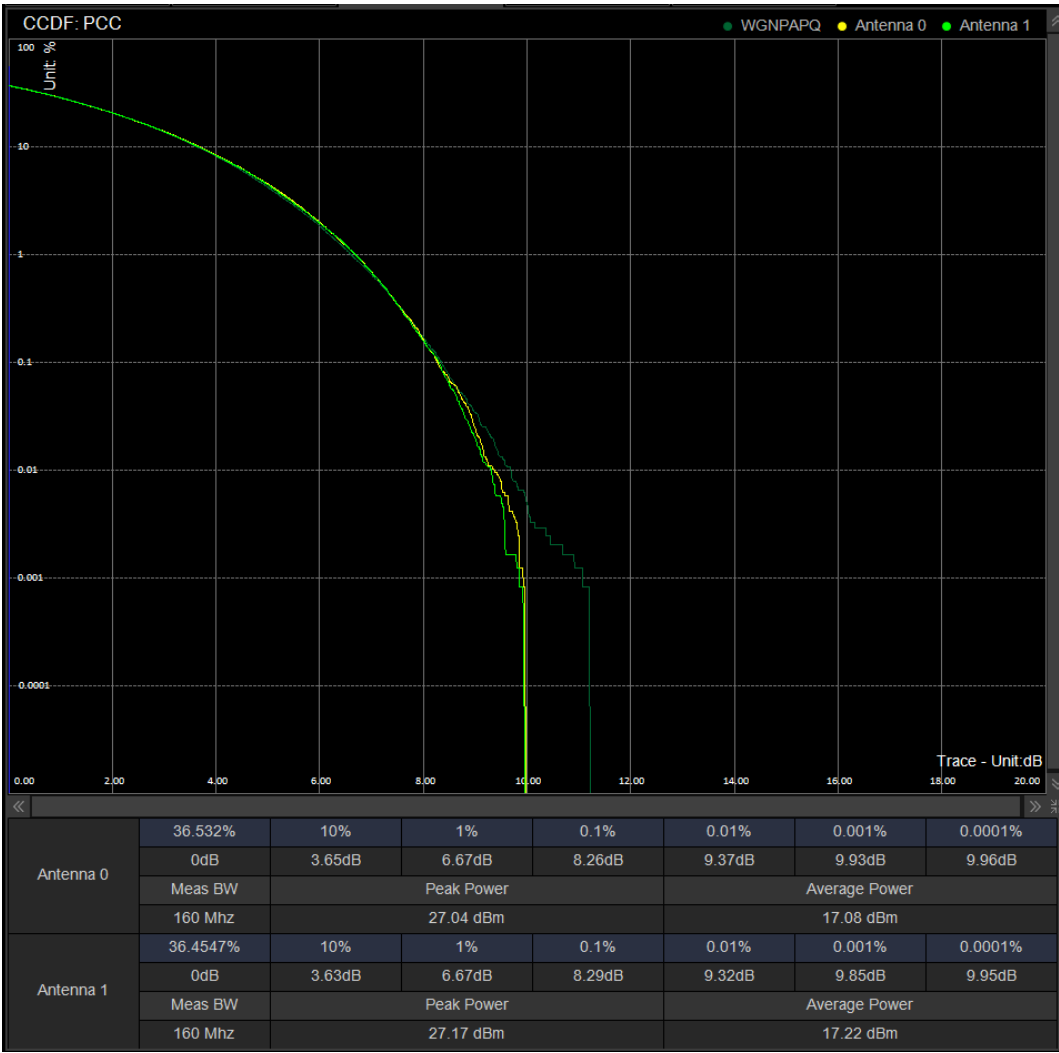
MIMO\PC3\NR n48\50M 16QAM



MIMO\PC3\NR n48\50M 256QAM



MIMO\PC3\NR n48\50M 64QAM



MIMO\PC3\NR n48\50M QPSK

6.6. Frequency Stability

	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Verdict
	BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	
LTE Band 48	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	PASS
	Normal (25°C)	Normal	10.18	17.71	11.44	7.34	0.00281	0.00488	0.00316	0.00203	
	Extreme (50°C)		16.18	9.69	7.08	6.17	0.00446	0.00267	0.00195	0.00170	
	Extreme (40°C)		1.93	14.84	13.24	3.64	0.00053	0.00409	0.00365	0.00100	
	Extreme (30°C)		13.84	9.91	4.25	5.34	0.00382	0.00273	0.00117	0.00147	
	Extreme (20°C)		11.06	16.10	5.20	12.31	0.00305	0.00444	0.00143	0.00340	
	Extreme (10°C)		13.63	1.91	16.61	17.73	0.00376	0.00053	0.00458	0.00489	
	Extreme (0°C)		15.98	7.52	4.24	17.33	0.00441	0.00207	0.00117	0.00478	
	Extreme (-10°C)		10.79	1.73	2.82	6.43	0.00298	0.00048	0.00078	0.00177	
	Extreme (-20°C)		8.24	10.19	12.85	16.27	0.00227	0.00281	0.00355	0.00449	
	Extreme (-30°C)		12.00	1.02	17.55	13.94	0.00331	0.00028	0.00484	0.00385	
	25°C	LV	6.00	15.52	7.35	10.28	0.00166	0.00428	0.00203	0.00284	
		HV	4.82	13.35	11.70	6.30	0.00133	0.00368	0.00323	0.00174	
LTE Band 48	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Verdict
	BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	PASS
	Normal (25°C)	Normal	17.91	10.19	7.39	14.59	0.00494	0.00281	0.00204	0.00402	
	Extreme (50°C)		5.93	11.65	6.88	15.65	0.00164	0.00321	0.00190	0.00432	
	Extreme (40°C)		4.57	9.36	17.66	9.10	0.00126	0.00258	0.00487	0.00251	
	Extreme (30°C)		16.06	5.58	4.38	2.57	0.00443	0.00154	0.00121	0.00071	
	Extreme (20°C)		7.60	11.83	17.21	2.99	0.00210	0.00326	0.00475	0.00083	
	Extreme (10°C)		6.71	11.64	16.09	17.51	0.00185	0.00321	0.00444	0.00483	
	Extreme (0°C)		3.98	10.92	1.17	8.28	0.00110	0.00301	0.00032	0.00228	
	Extreme (-10°C)		2.55	16.06	14.93	10.82	0.00070	0.00443	0.00412	0.00298	
	Extreme (-20°C)		5.63	10.96	1.47	5.65	0.00155	0.00302	0.00041	0.00156	
	Extreme (-30°C)		14.91	14.95	4.92	17.87	0.00411	0.00412	0.00136	0.00493	
	25°C	LV	15.80	15.98	13.82	8.51	0.00436	0.00441	0.00381	0.00235	
		HV	2.29	7.58	17.68	5.25	0.00063	0.00209	0.00488	0.00145	
LTE Band 48	Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Verdict
	BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	PASS
	Normal (25°C)	Normal	4.49	8.90	10.42	17.74	0.00124	0.00245	0.00288	0.00489	
	Extreme (50°C)		6.64	11.19	4.25	1.70	0.00183	0.00309	0.00117	0.00047	

	Extreme (40℃)		7.87	14.73	15.15	9.91	0.00217	0.00406	0.00418	0.00273	PASS
	Extreme (30℃)		6.81	1.68	15.37	17.08	0.00188	0.00046	0.00424	0.00471	PASS
	Extreme (20℃)		12.55	2.26	5.70	2.55	0.00346	0.00062	0.00157	0.00070	PASS
	Extreme (10℃)		8.46	6.07	8.33	3.51	0.00233	0.00167	0.00230	0.00097	PASS
	Extreme (0℃)		15.93	4.27	2.16	5.47	0.00439	0.00118	0.00060	0.00151	PASS
	Extreme (-10℃)		7.05	14.74	4.80	4.05	0.00194	0.00407	0.00132	0.00112	PASS
	Extreme (-20℃)		3.73	13.98	3.38	4.30	0.00103	0.00386	0.00093	0.00119	PASS
	Extreme (-30℃)		6.17	5.17	8.20	17.09	0.00170	0.00143	0.00226	0.00471	PASS
	25℃	LV	9.65	2.19	17.24	7.67	0.00266	0.00060	0.00476	0.00212	PASS
		HV	17.27	6.50	11.53	16.09	0.00476	0.00179	0.00318	0.00444	PASS
LTE Band 48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25℃)	Normal	11.03	14.31	15.59	2.31	0.00304	0.00395	0.00430	0.00064	PASS
	Extreme (50℃)		17.34	11.71	7.77	11.33	0.00478	0.00323	0.00214	0.00313	PASS
	Extreme (40℃)		10.47	9.98	7.41	4.52	0.00289	0.00275	0.00204	0.00125	PASS
	Extreme (30℃)		16.72	15.82	17.08	6.44	0.00461	0.00437	0.00471	0.00178	PASS
	Extreme (20℃)		8.12	2.19	14.36	3.81	0.00224	0.00060	0.00396	0.00105	PASS
	Extreme (10℃)		8.47	10.66	15.95	12.55	0.00234	0.00294	0.00440	0.00346	PASS
	Extreme (0℃)		6.42	2.10	5.85	16.62	0.00177	0.00058	0.00161	0.00458	PASS
	Extreme (-10℃)		11.16	17.49	12.28	17.56	0.00308	0.00483	0.00339	0.00484	PASS
	Extreme (-20℃)		1.16	16.21	17.04	12.78	0.00032	0.00447	0.00470	0.00352	PASS
	Extreme (-30℃)		10.70	9.78	6.09	9.74	0.00295	0.00270	0.00168	0.00269	PASS
	25℃	LV	3.57	9.45	5.02	5.96	0.00098	0.00261	0.00139	0.00164	PASS
		HV	5.83	16.57	14.55	2.80	0.00161	0.00457	0.00401	0.00077	PASS

CA_48B_QPSK		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	6.34	0.00175	11.23	0.00310	PASS
Extreme (50℃)		7.37	0.00203	4.35	0.00120	PASS
Extreme (40℃)		15.45	0.00426	8.24	0.00227	PASS
Extreme (30℃)		1.93	0.00053	11.76	0.00324	PASS
Extreme (20℃)		1.23	0.00034	15.33	0.00423	PASS
Extreme (10℃)		9.80	0.00270	12.51	0.00345	PASS
Extreme (0℃)		3.61	0.00100	11.27	0.00311	PASS
Extreme (-10℃)		7.06	0.00195	14.99	0.00413	PASS
Extreme (-20℃)		14.44	0.00398	1.99	0.00055	PASS
Extreme (-30℃)		11.88	0.00328	9.39	0.00259	PASS
25℃	LV	2.57	0.00071	1.21	0.00033	PASS
	HV	6.09	0.00168	15.89	0.00438	PASS
CA_48B_16QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	12.91	0.00356	15.58	0.00430	PASS
Extreme (50℃)		3.50	0.00097	14.94	0.00412	PASS
Extreme (40℃)		10.56	0.00291	17.90	0.00494	PASS
Extreme (30℃)		16.60	0.00458	6.83	0.00188	PASS
Extreme (20℃)		6.52	0.00180	7.11	0.00196	PASS
Extreme (10℃)		17.69	0.00488	9.08	0.00250	PASS
Extreme (0℃)		8.13	0.00224	5.86	0.00162	PASS
Extreme (-10℃)		3.60	0.00099	6.25	0.00172	PASS
Extreme (-20℃)		10.49	0.00289	6.88	0.00190	PASS
Extreme (-30℃)		2.93	0.00081	4.36	0.00120	PASS
25℃	LV	2.21	0.00061	11.89	0.00328	PASS
	HV	14.96	0.00413	15.39	0.00425	PASS
CA_48B_64QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	8.27	0.00228	9.01	0.00249	PASS
Extreme (50℃)		1.04	0.00029	3.40	0.00094	PASS

Extreme (40℃)		6.53	0.00180	6.36	0.00175	PASS
Extreme (30℃)		4.87	0.00134	12.42	0.00343	PASS
Extreme (20℃)		13.83	0.00382	8.30	0.00229	PASS
Extreme (10℃)		12.38	0.00341	9.89	0.00273	PASS
Extreme (0℃)		11.90	0.00328	11.25	0.00310	PASS
Extreme (-10℃)		9.19	0.00254	3.92	0.00108	PASS
Extreme (-20℃)		10.57	0.00292	3.57	0.00099	PASS
Extreme (-30℃)			4.28	0.00118	15.80	0.00436
25℃	LV	12.92	0.00356	5.07	0.00140	PASS
	HV	5.33	0.00147	10.59	0.00292	PASS
CA_48B_256QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	9.71	0.00268	7.59	0.00209	
Extreme (50℃)		15.79	0.00436	5.88	0.00162	PASS
Extreme (40℃)		5.91	0.00163	6.58	0.00181	PASS
Extreme (30℃)		11.90	0.00328	15.20	0.00419	PASS
Extreme (20℃)		12.52	0.00345	5.14	0.00142	PASS
Extreme (10℃)		6.49	0.00179	6.33	0.00175	PASS
Extreme (0℃)		3.04	0.00084	12.82	0.00354	PASS
Extreme (-10℃)		8.45	0.00233	14.55	0.00401	PASS
Extreme (-20℃)		11.25	0.00310	1.65	0.00045	PASS
Extreme (-30℃)		2.51	0.00069	11.70	0.00323	PASS
25℃	LV	4.42	0.00122	9.52	0.00263	PASS
	HV	9.04	0.00249	4.20	0.00116	PASS
CA_48C_QPSK		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	6.07	0.00167	5.53	0.00153	
Extreme (50℃)		4.40	0.00121	3.58	0.00099	PASS
Extreme (40℃)		7.93	0.00219	1.96	0.00054	PASS
Extreme (30℃)		1.46	0.00040	6.56	0.00181	PASS
Extreme (20℃)		1.94	0.00054	8.60	0.00237	PASS
Extreme (10℃)		16.24	0.00448	10.40	0.00287	PASS
Extreme (0℃)		7.52	0.00207	10.53	0.00290	PASS
Extreme (-10℃)		14.85	0.00410	1.30	0.00036	PASS
Extreme (-20℃)		6.59	0.00182	12.38	0.00342	PASS
Extreme (-30℃)		9.01	0.00249	8.95	0.00247	PASS
25℃	LV	7.21	0.00199	11.51	0.00317	PASS

	HV	10.35	0.00285	15.19	0.00419	PASS
CA_48C_16QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	1.72	0.00047	15.21	0.00420	PASS
Extreme (50℃)		2.84	0.00078	13.17	0.00363	PASS
Extreme (40℃)		5.12	0.00141	1.60	0.00044	PASS
Extreme (30℃)		3.23	0.00089	7.58	0.00209	PASS
Extreme (20℃)		8.76	0.00242	12.91	0.00356	PASS
Extreme (10℃)		4.99	0.00138	2.89	0.00080	PASS
Extreme (0℃)		3.63	0.00100	1.77	0.00049	PASS
Extreme (-10℃)		3.67	0.00101	9.65	0.00266	PASS
Extreme (-20℃)		1.59	0.00044	15.47	0.00427	PASS
Extreme (-30℃)		16.96	0.00468	3.14	0.00087	PASS
25℃	LV	6.52	0.00180	4.51	0.00124	PASS
	HV	8.61	0.00238	11.81	0.00326	PASS
CA_48C_64QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	7.41	0.00204	12.63	0.00348	PASS
Extreme (50℃)		15.29	0.00422	3.11	0.00086	PASS
Extreme (40℃)		4.75	0.00131	11.15	0.00308	PASS
Extreme (30℃)		5.81	0.00160	3.17	0.00088	PASS
Extreme (20℃)		11.92	0.00329	9.25	0.00255	PASS
Extreme (10℃)		3.05	0.00084	9.65	0.00266	PASS
Extreme (0℃)		13.70	0.00378	12.35	0.00341	PASS
Extreme (-10℃)		14.44	0.00398	6.28	0.00173	PASS
Extreme (-20℃)		4.06	0.00112	16.45	0.00454	PASS
Extreme (-30℃)		4.69	0.00129	15.31	0.00422	PASS
25℃	LV	9.97	0.00275	15.52	0.00428	PASS
	HV	6.66	0.00184	9.71	0.00268	PASS
CA_48C_256QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	17.68	0.00488	16.81	0.00464	PASS

Extreme (50℃)		9.73	0.00268	12.72	0.00351	PASS
Extreme (40℃)		1.86	0.00051	12.90	0.00356	PASS
Extreme (30℃)		2.47	0.00068	7.50	0.00207	PASS
Extreme (20℃)		3.37	0.00093	12.81	0.00353	PASS
Extreme (10℃)		14.21	0.00392	9.40	0.00259	PASS
Extreme (0℃)		1.14	0.00031	9.52	0.00263	PASS
Extreme (-10℃)		17.64	0.00487	6.34	0.00175	PASS
Extreme (-20℃)		9.08	0.00251	9.84	0.00271	PASS
Extreme (-30℃)		15.26	0.00421	4.89	0.00135	PASS
25℃	LV	8.11	0.00224	6.76	0.00187	PASS
	HV	7.48	0.00206	12.18	0.00336	PASS

	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	
NR n48	Normal (25℃)	Normal	13.95	16.07	13.73	8.73	14.93	0.00399	0.00459	0.00392	0.00249	0.00427	PASS
	Extreme (50℃)		15.86	11.13	13.55	3.61	16.57	0.00453	0.00318	0.00387	0.00103	0.00473	PASS
	Extreme (40℃)		17.35	6.26	4.09	2.23	12.19	0.00496	0.00179	0.00117	0.00064	0.00348	PASS
	Extreme (30℃)		7.18	15.02	11.34	12.70	7.58	0.00205	0.00429	0.00324	0.00363	0.00217	PASS
	Extreme (20℃)		11.36	1.19	7.02	8.87	2.16	0.00325	0.00034	0.00200	0.00254	0.00062	PASS
	Extreme (10℃)		2.84	6.41	12.92	14.16	11.80	0.00081	0.00183	0.00369	0.00405	0.00337	PASS
	Extreme (0℃)		8.21	5.73	1.50	1.65	5.09	0.00235	0.00164	0.00043	0.00047	0.00145	PASS
	Extreme (-10℃)		1.65	2.08	5.04	13.16	8.33	0.00047	0.00059	0.00144	0.00376	0.00238	PASS
	Extreme (-20℃)		9.33	6.42	7.82	11.35	14.36	0.00267	0.00183	0.00224	0.00324	0.00410	PASS
	Extreme (-30℃)		11.66	10.68	11.44	14.75	4.49	0.00333	0.00305	0.00327	0.00421	0.00128	PASS
	25℃	LV	16.37	15.31	2.99	13.07	17.73	0.00468	0.00437	0.00085	0.00373	0.00506	PASS
		HV	6.25	5.86	1.78	13.74	7.05	0.00179	0.00167	0.00051	0.00393	0.00201	PASS
NR n48	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	14.78	10.20	15.95	2.18	1.31	0.00422	0.00291	0.00456	0.00062	0.00037	PASS
	Extreme (50℃)		13.06	17.91	3.92	12.46	12.72	0.00373	0.00512	0.00112	0.00356	0.00363	PASS
	Extreme (40℃)		15.75	7.42	4.41	7.36	1.76	0.00450	0.00212	0.00126	0.00210	0.00050	PASS
	Extreme (30℃)		2.26	14.52	2.92	9.79	16.04	0.00064	0.00415	0.00083	0.00280	0.00458	PASS
	Extreme (20℃)		1.15	10.37	11.00	8.04	11.49	0.00033	0.00296	0.00314	0.00230	0.00328	PASS
	Extreme (10℃)		6.34	2.80	5.40	13.94	8.68	0.00181	0.00080	0.00154	0.00398	0.00248	PASS
	Extreme (0℃)		16.37	2.16	14.81	2.98	13.72	0.00468	0.00062	0.00423	0.00085	0.00392	PASS
	Extreme (-10℃)		17.00	6.03	1.04	17.29	7.14	0.00486	0.00172	0.00030	0.00494	0.00204	PASS
	Extreme (-20℃)		16.92	10.69	16.98	3.05	16.10	0.00483	0.00305	0.00485	0.00087	0.00460	PASS
	Extreme (-30℃)		5.32	14.79	2.66	9.06	1.54	0.00152	0.00423	0.00076	0.00259	0.00044	PASS
	25℃	LV	9.06	14.27	14.05	11.05	12.88	0.00259	0.00408	0.00401	0.00316	0.00368	PASS

		HV	5.97	7.52	8.32	17.27	14.23	0.00170	0.00215	0.00238	0.00493	0.00407	PASS
NR n48	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	16.22	17.83	4.98	13.65	7.27	0.00463	0.00510	0.00142	0.00390	0.00208	PASS
	Extreme (50℃)		12.64	7.88	9.34	5.49	4.84	0.00361	0.00225	0.00267	0.00157	0.00138	PASS
	Extreme (40℃)		12.44	5.96	10.51	2.61	5.70	0.00355	0.00170	0.00300	0.00074	0.00163	PASS
	Extreme (30℃)		6.10	5.22	8.09	16.86	9.75	0.00174	0.00149	0.00231	0.00482	0.00279	PASS
	Extreme (20℃)		6.14	2.29	2.71	1.10	11.87	0.00175	0.00066	0.00078	0.00031	0.00339	PASS
	Extreme (10℃)		14.26	15.10	15.74	6.22	13.84	0.00408	0.00431	0.00450	0.00178	0.00395	PASS
	Extreme (0℃)		12.47	15.28	12.10	14.28	11.60	0.00356	0.00436	0.00346	0.00408	0.00331	PASS
	Extreme (-10℃)		10.07	9.18	7.49	7.35	8.45	0.00288	0.00262	0.00214	0.00210	0.00242	PASS
	Extreme (-20℃)		14.86	3.82	11.73	3.62	13.03	0.00424	0.00109	0.00335	0.00103	0.00372	PASS
	Extreme (-30℃)		14.10	10.32	14.22	14.39	13.03	0.00403	0.00295	0.00406	0.00411	0.00372	PASS
	25℃	LV	2.13	15.56	2.46	2.52	7.85	0.00061	0.00445	0.00070	0.00072	0.00224	PASS
		HV	1.50	10.92	4.05	15.21	3.96	0.00043	0.00312	0.00116	0.00435	0.00113	PASS
NR n48	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	2.42	13.20	16.48	9.00	1.97	0.00069	0.00377	0.00471	0.00257	0.00056	PASS
	Extreme (50℃)		3.05	4.26	14.21	2.55	16.45	0.00087	0.00122	0.00406	0.00073	0.00470	PASS
	Extreme (40℃)		9.54	2.06	7.22	8.19	1.07	0.00272	0.00059	0.00206	0.00234	0.00031	PASS
	Extreme (30℃)		5.83	15.92	14.31	6.44	2.65	0.00167	0.00455	0.00409	0.00184	0.00076	PASS
	Extreme (20℃)		8.02	17.41	7.36	5.48	1.27	0.00229	0.00497	0.00210	0.00157	0.00036	PASS
	Extreme (10℃)		5.75	2.41	14.28	6.75	13.60	0.00164	0.00069	0.00408	0.00193	0.00388	PASS
	Extreme (0℃)		16.57	2.21	4.94	4.29	12.19	0.00473	0.00063	0.00141	0.00123	0.00348	PASS
	Extreme (-10℃)		16.57	8.68	5.77	14.86	15.16	0.00473	0.00248	0.00165	0.00424	0.00433	PASS
	Extreme (-20℃)		17.43	13.70	12.52	15.45	7.50	0.00498	0.00391	0.00358	0.00442	0.00214	PASS
	Extreme (-30℃)		5.24	2.47	14.89	1.80	6.29	0.00150	0.00071	0.00425	0.00051	0.00180	PASS
	25℃	LV	17.92	17.94	1.44	15.46	5.32	0.00512	0.00513	0.00041	0.00442	0.00152	PASS
		HV	9.19	11.21	17.61	8.77	10.73	0.00263	0.00320	0.00503	0.00251	0.00307	PASS
NR n48	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	6.38	3.75	3.12	14.03	16.02	0.00182	0.00107	0.00089	0.00401	0.00458	PASS
	Extreme (50℃)		3.67	5.27	16.06	13.53	10.91	0.00105	0.00151	0.00459	0.00387	0.00312	PASS
	Extreme (40℃)		5.75	10.73	16.92	11.91	12.06	0.00164	0.00306	0.00483	0.00340	0.00345	PASS
	Extreme (30℃)		14.84	6.55	7.53	15.44	1.49	0.00424	0.00187	0.00215	0.00441	0.00043	PASS
	Extreme (20℃)		5.37	11.76	17.48	15.95	12.46	0.00153	0.00336	0.00499	0.00456	0.00356	PASS
	Extreme (10℃)		3.59	16.51	2.80	17.64	13.58	0.00103	0.00472	0.00080	0.00504	0.00388	PASS

	Extreme (0℃)		3.33	9.39	13.95	2.56	17.76	0.00095	0.00268	0.00399	0.00073	0.00507	PASS
	Extreme (-10℃)		5.88	11.07	8.31	8.53	12.32	0.00168	0.00316	0.00237	0.00244	0.00352	PASS
	Extreme (-20℃)		2.51	14.93	2.70	3.00	3.43	0.00072	0.00427	0.00077	0.00086	0.00098	PASS
	Extreme (-30℃)		2.04	3.05	5.96	15.39	6.87	0.00058	0.00087	0.00170	0.00440	0.00196	PASS
	25℃	LV	10.29	4.08	2.97	12.57	5.69	0.00294	0.00117	0.00085	0.00359	0.00162	PASS
		HV	5.60	5.65	6.18	14.51	9.49	0.00160	0.00162	0.00177	0.00415	0.00271	PASS
NR n48	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	3.52	16.35	11.70	2.00	12.07	0.00101	0.00467	0.00334	0.00057	0.00345	PASS
	Extreme (50℃)		14.72	6.31	16.62	8.26	7.84	0.00421	0.00180	0.00475	0.00236	0.00224	PASS
	Extreme (40℃)		1.94	4.13	12.76	15.12	12.09	0.00055	0.00118	0.00365	0.00432	0.00345	PASS
	Extreme (30℃)		3.70	7.63	2.99	12.81	17.13	0.00106	0.00218	0.00085	0.00366	0.00489	PASS
	Extreme (20℃)		16.39	17.28	17.80	4.67	16.54	0.00468	0.00494	0.00509	0.00133	0.00473	PASS
	Extreme (10℃)		3.03	3.98	7.56	1.80	14.88	0.00087	0.00114	0.00216	0.00051	0.00425	PASS
	Extreme (0℃)		1.01	6.60	9.30	11.71	1.98	0.00029	0.00189	0.00266	0.00334	0.00057	PASS
	Extreme (-10℃)		8.13	3.00	9.79	7.69	6.94	0.00232	0.00086	0.00280	0.00220	0.00198	PASS
	Extreme (-20℃)		8.61	7.99	16.16	7.62	15.45	0.00246	0.00228	0.00462	0.00218	0.00441	PASS
	Extreme (-30℃)		1.15	9.95	9.86	5.24	4.80	0.00033	0.00284	0.00282	0.00150	0.00137	PASS
	25℃	LV	10.15	13.00	11.47	17.28	7.03	0.00290	0.00372	0.00328	0.00494	0.00201	PASS
		HV	13.37	2.01	15.51	13.85	9.15	0.00382	0.00057	0.00443	0.00396	0.00261	PASS
NR n48	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	15.91	14.04	13.31	12.43	7.20	0.00454	0.00401	0.00380	0.00355	0.00206	PASS
	Extreme (50℃)		7.37	6.67	15.44	14.19	10.33	0.00211	0.00190	0.00441	0.00405	0.00295	PASS
	Extreme (40℃)		1.86	14.72	4.27	12.98	15.07	0.00053	0.00421	0.00122	0.00371	0.00430	PASS
	Extreme (30℃)		10.11	10.13	3.18	8.27	8.53	0.00289	0.00290	0.00091	0.00236	0.00244	PASS
	Extreme (20℃)		15.15	2.05	4.49	8.01	6.60	0.00433	0.00059	0.00128	0.00229	0.00189	PASS
	Extreme (10℃)		12.68	2.87	3.71	14.22	12.33	0.00362	0.00082	0.00106	0.00406	0.00352	PASS
	Extreme (0℃)		1.13	17.16	2.08	6.05	14.09	0.00032	0.00490	0.00059	0.00173	0.00403	PASS
	Extreme (-10℃)		9.79	7.22	3.71	9.82	12.95	0.00280	0.00206	0.00106	0.00281	0.00370	PASS
	Extreme (-20℃)		14.61	17.58	15.86	16.93	9.74	0.00418	0.00502	0.00453	0.00484	0.00278	PASS
	Extreme (-30℃)		17.14	16.38	2.59	5.67	2.92	0.00490	0.00468	0.00074	0.00162	0.00083	PASS
	25℃	LV	13.53	1.12	10.95	5.58	2.09	0.00387	0.00032	0.00313	0.00159	0.00060	PASS
		HV	1.01	5.55	6.95	2.52	11.95	0.00029	0.00159	0.00199	0.00072	0.00342	PASS
NR n48	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	15.09	8.01	11.96	2.19	5.78	0.00431	0.00229	0.00342	0.00063	0.00165	PASS

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	Extreme (50°C)		9.80	1.69	17.05	9.36	8.31	0.00280	0.00048	0.00487	0.00268	0.00237	PASS
	Extreme (40°C)		12.94	9.00	2.55	3.18	5.97	0.00370	0.00257	0.00073	0.00091	0.00170	PASS
	Extreme (30°C)		16.42	3.14	16.75	15.84	16.91	0.00469	0.00090	0.00479	0.00452	0.00483	PASS
	Extreme (20°C)		17.46	16.93	13.42	2.08	1.97	0.00499	0.00484	0.00383	0.00059	0.00056	PASS
	Extreme (10°C)		1.84	13.67	1.29	17.43	11.27	0.00053	0.00391	0.00037	0.00498	0.00322	PASS
	Extreme (0°C)		12.96	2.94	5.40	2.86	12.55	0.00370	0.00084	0.00154	0.00082	0.00359	PASS
	Extreme (-10°C)		5.31	15.35	2.11	16.84	5.71	0.00152	0.00439	0.00060	0.00481	0.00163	PASS
	Extreme (-20°C)		6.06	7.96	5.65	2.10	2.69	0.00173	0.00228	0.00161	0.00060	0.00077	PASS
	Extreme (-30°C)		12.45	11.18	4.77	12.16	12.49	0.00356	0.00319	0.00136	0.00348	0.00357	PASS
	25°C	LV	17.48	17.76	15.71	13.96	11.30	0.00499	0.00507	0.00449	0.00399	0.00323	PASS
NR n48	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	2.48	9.33	17.46	14.87	9.10	0.00071	0.00266	0.00499	0.00425	0.00260	PASS
	Extreme (50°C)		15.90	5.48	10.92	16.82	4.82	0.00454	0.00156	0.00312	0.00481	0.00138	PASS
	Extreme (40°C)		16.41	5.21	12.55	7.50	14.22	0.00469	0.00149	0.00359	0.00214	0.00406	PASS
	Extreme (30°C)		12.84	1.31	10.85	6.02	8.19	0.00367	0.00037	0.00310	0.00172	0.00234	PASS
	Extreme (20°C)		13.99	1.37	12.82	8.05	12.86	0.00400	0.00039	0.00366	0.00230	0.00367	PASS
	Extreme (10°C)		8.51	15.44	11.99	7.98	6.81	0.00243	0.00441	0.00343	0.00228	0.00194	PASS
	Extreme (0°C)		17.20	4.78	5.50	8.62	4.28	0.00491	0.00136	0.00157	0.00246	0.00122	PASS
	Extreme (-10°C)		1.35	1.31	8.09	4.83	1.18	0.00039	0.00037	0.00231	0.00138	0.00034	PASS
	Extreme (-20°C)		10.98	3.86	2.03	10.70	3.22	0.00314	0.00110	0.00058	0.00306	0.00092	PASS
	Extreme (-30°C)		14.74	16.46	12.93	8.14	4.81	0.00421	0.00470	0.00369	0.00233	0.00137	PASS
	25°C	LV	8.81	4.46	10.62	13.83	8.70	0.00252	0.00127	0.00303	0.00395	0.00249	PASS
		HV	7.00	11.03	12.42	5.59	12.31	0.00200	0.00315	0.00355	0.00160	0.00352	PASS
NR n48	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	15.48	13.07	17.18	8.03	2.85	0.00442	0.00374	0.00491	0.00229	0.00081	PASS
	Extreme (50°C)		15.85	8.09	11.39	5.19	16.53	0.00453	0.00231	0.00325	0.00148	0.00472	PASS
	Extreme (40°C)		10.44	7.86	3.68	17.69	2.34	0.00298	0.00224	0.00105	0.00505	0.00067	PASS
	Extreme (30°C)		3.44	8.27	11.84	11.00	10.41	0.00098	0.00236	0.00338	0.00314	0.00297	PASS
	Extreme (20°C)		2.35	8.35	3.11	7.69	9.62	0.00067	0.00239	0.00089	0.00220	0.00275	PASS
	Extreme (10°C)		17.64	6.34	3.44	3.41	2.93	0.00504	0.00181	0.00098	0.00097	0.00084	PASS
	Extreme (0°C)		12.86	15.81	8.11	4.80	6.83	0.00367	0.00452	0.00232	0.00137	0.00195	PASS
	Extreme (-10°C)		8.40	4.67	11.29	2.25	6.22	0.00240	0.00133	0.00323	0.00064	0.00178	PASS
	Extreme (-20°C)		8.85	10.14	7.79	16.11	14.12	0.00253	0.00290	0.00223	0.00460	0.00403	PASS
	Extreme (-30°C)		5.01	4.73	7.29	2.32	7.69	0.00143	0.00135	0.00208	0.00066	0.00220	PASS
	25°C	LV	14.90	9.90	9.93	5.68	10.05	0.00426	0.00283	0.00284	0.00162	0.00287	PASS
		HV	7.42	16.42	1.29	15.75	17.34	0.00212	0.00469	0.00037	0.00450	0.00496	PASS

MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Temperature	Voltage									
	Normal (25℃)	Normal	12.04	7.88	8.36	1.12	0.00344	0.00225	0.00239	0.00032	PASS
	Extreme (50℃)		12.63	7.48	6.64	2.70	0.00361	0.00214	0.00190	0.00077	PASS
	Extreme (40℃)		6.46	14.65	17.25	3.85	0.00184	0.00419	0.00493	0.00110	PASS
	Extreme (30℃)		7.13	13.04	4.87	2.55	0.00204	0.00373	0.00139	0.00073	PASS
	Extreme (20℃)		1.71	13.59	8.85	17.11	0.00049	0.00388	0.00253	0.00489	PASS
	Extreme (10℃)		13.08	16.71	8.96	4.36	0.00374	0.00478	0.00256	0.00125	PASS
	Extreme (0℃)		13.85	2.45	7.20	16.02	0.00396	0.00070	0.00206	0.00458	PASS
	Extreme (-10℃)		2.17	3.51	14.13	16.23	0.00062	0.00100	0.00404	0.00464	PASS
	Extreme (-20℃)		16.81	5.69	10.51	15.50	0.00480	0.00162	0.00300	0.00443	PASS
	Extreme (-30℃)		1.00	3.88	10.35	7.26	0.00029	0.00111	0.00296	0.00208	PASS
25℃	LV	3.84	9.09	3.27	11.16	0.00110	0.00260	0.00093	0.00319	PASS	
	HV	13.62	8.25	4.57	5.44	0.00389	0.00236	0.00131	0.00155	PASS	
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Temperature	Voltage									
	Normal (25℃)	Normal	3.16	16.60	16.22	16.11	0.00090	0.00474	0.00463	0.00460	PASS
	Extreme (50℃)		17.05	7.34	3.78	15.04	0.00487	0.00210	0.00108	0.00430	PASS
	Extreme (40℃)		7.19	12.85	12.25	14.24	0.00205	0.00367	0.00350	0.00407	PASS
	Extreme (30℃)		17.55	2.02	12.78	14.95	0.00502	0.00058	0.00365	0.00427	PASS
	Extreme (20℃)		7.97	8.82	4.61	12.66	0.00228	0.00252	0.00132	0.00362	PASS
	Extreme (10℃)		10.72	13.89	6.00	11.10	0.00306	0.00397	0.00172	0.00317	PASS
	Extreme (0℃)		12.14	10.77	17.82	10.69	0.00347	0.00308	0.00509	0.00305	PASS
	Extreme (-10℃)		16.48	2.97	16.32	9.86	0.00471	0.00085	0.00466	0.00282	PASS
	Extreme (-20℃)		13.35	13.40	15.84	7.24	0.00381	0.00383	0.00453	0.00207	PASS
	Extreme (-30℃)		5.61	9.27	5.27	4.81	0.00160	0.00265	0.00151	0.00137	PASS
	25℃	LV	16.78	5.07	15.67	14.92	0.00480	0.00145	0.00448	0.00426	PASS
		HV	15.81	12.47	11.17	3.15	0.00452	0.00356	0.00319	0.00090	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Temperature	Voltage									
	Normal (25℃)	Normal	11.61	13.69	7.99	12.31	0.00332	0.00391	0.00228	0.00352	PASS
	Extreme (50℃)		5.94	5.36	12.07	14.50	0.00170	0.00153	0.00345	0.00414	PASS
	Extreme (40℃)		14.23	2.01	1.74	14.35	0.00407	0.00057	0.00050	0.00410	PASS
	Extreme (30℃)		10.79	4.01	10.70	5.59	0.00308	0.00115	0.00306	0.00160	PASS
	Extreme (20℃)		15.62	4.89	1.55	14.00	0.00446	0.00140	0.00044	0.00400	PASS
Extreme (10℃)	13.94		1.33	15.49	8.37	0.00398	0.00038	0.00443	0.00239	PASS	

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	Extreme (0°C)		8.33	2.48	15.37	5.32	0.00238	0.00071	0.00439	0.00152	PASS
	Extreme (-10°C)		1.89	6.07	14.32	5.95	0.00054	0.00173	0.00409	0.00170	PASS
	Extreme (-20°C)		6.81	7.52	16.50	12.25	0.00195	0.00215	0.00471	0.00350	PASS
	Extreme (-30°C)		6.12	2.33	17.00	2.65	0.00175	0.00067	0.00486	0.00076	PASS
	25°C	LV	1.40	12.04	5.12	8.37	0.00040	0.00344	0.00146	0.00239	PASS
		HV	13.02	8.75	7.17	13.28	0.00372	0.00250	0.00205	0.00379	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	30MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	15.76	17.22	6.30	9.85	0.00450	0.00492	0.00180	0.00281	PASS
	Extreme (50°C)		8.58	8.38	2.93	3.91	0.00245	0.00239	0.00084	0.00112	PASS
	Extreme (40°C)		3.90	9.27	13.26	16.06	0.00111	0.00265	0.00379	0.00459	PASS
	Extreme (30°C)		6.22	14.67	2.19	16.35	0.00178	0.00419	0.00062	0.00467	PASS
	Extreme (20°C)		13.34	3.14	4.73	1.73	0.00381	0.00090	0.00135	0.00050	PASS
	Extreme (10°C)		1.33	5.44	4.57	11.81	0.00038	0.00155	0.00130	0.00337	PASS
	Extreme (0°C)		6.68	16.87	6.47	2.10	0.00191	0.00482	0.00185	0.00060	PASS
	Extreme (-10°C)		8.77	13.04	9.39	17.00	0.00250	0.00372	0.00268	0.00486	PASS
	Extreme (-20°C)		11.67	12.13	7.26	16.71	0.00333	0.00347	0.00207	0.00478	PASS
	Extreme (-30°C)		16.19	1.24	4.46	8.99	0.00463	0.00035	0.00127	0.00257	PASS
	25°C	LV	2.36	10.84	10.86	1.38	0.00067	0.00310	0.00310	0.00040	PASS
		HV	5.82	2.00	3.37	16.09	0.00166	0.00057	0.00096	0.00460	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	40MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	14.95	10.73	11.86	14.91	0.00427	0.00307	0.00339	0.00426	PASS
	Extreme (50°C)		15.74	11.82	12.08	9.28	0.00450	0.00338	0.00345	0.00265	PASS
	Extreme (40°C)		7.10	7.08	9.62	16.56	0.00203	0.00202	0.00275	0.00473	PASS
	Extreme (30°C)		14.90	17.91	1.22	6.12	0.00426	0.00512	0.00035	0.00175	PASS
	Extreme (20°C)		2.86	13.30	9.71	17.26	0.00082	0.00380	0.00277	0.00493	PASS
	Extreme (10°C)		15.20	12.27	10.13	5.17	0.00434	0.00350	0.00289	0.00148	PASS
	Extreme (0°C)		8.04	10.03	2.24	3.13	0.00230	0.00286	0.00064	0.00090	PASS
	Extreme (-10°C)		13.80	2.70	3.19	2.34	0.00394	0.00077	0.00091	0.00067	PASS
	Extreme (-20°C)		9.19	17.27	10.28	5.25	0.00263	0.00493	0.00294	0.00150	PASS
	Extreme (-30°C)		1.86	10.23	15.59	13.53	0.00053	0.00292	0.00445	0.00387	PASS
	25°C	LV	9.14	7.42	8.66	5.07	0.00261	0.00212	0.00248	0.00145	PASS
		HV	6.22	14.13	12.24	17.41	0.00178	0.00404	0.00350	0.00497	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	50MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	9.21	14.19	4.61	8.32	0.00263	0.00405	0.00132	0.00238	PASS

	Extreme (50°C)		3.96	12.45	4.46	7.20	0.00113	0.00356	0.00127	0.00206	PASS
	Extreme (40°C)		5.36	13.35	11.54	4.15	0.00153	0.00381	0.00330	0.00119	PASS
	Extreme (30°C)		7.28	6.06	9.93	14.44	0.00208	0.00173	0.00284	0.00412	PASS
	Extreme (20°C)		12.91	14.22	14.74	12.68	0.00369	0.00406	0.00421	0.00362	PASS
	Extreme (10°C)		7.26	14.20	11.84	11.03	0.00208	0.00406	0.00338	0.00315	PASS
	Extreme (0°C)		8.80	14.72	10.43	1.51	0.00251	0.00421	0.00298	0.00043	PASS
	Extreme (-10°C)		3.14	17.75	2.85	4.49	0.00090	0.00507	0.00082	0.00128	PASS
	Extreme (-20°C)		5.16	10.65	6.01	6.30	0.00147	0.00304	0.00172	0.00180	PASS
	Extreme (-30°C)		17.46	9.78	8.80	8.07	0.00499	0.00279	0.00251	0.00231	PASS
	25°C	LV	4.60	15.16	2.31	9.31	0.00131	0.00433	0.00066	0.00266	PASS
		HV	10.66	17.59	15.85	8.65	0.00305	0.00502	0.00453	0.00247	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	60MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	4.68	15.24	4.62	6.31	0.00134	0.00435	0.00132	0.00180	PASS
	Extreme (50°C)		14.47	16.31	17.65	14.31	0.00413	0.00466	0.00504	0.00409	PASS
	Extreme (40°C)		2.06	14.75	8.88	13.25	0.00059	0.00421	0.00254	0.00378	PASS
	Extreme (30°C)		5.86	17.18	17.44	11.13	0.00167	0.00491	0.00498	0.00318	PASS
	Extreme (20°C)		2.74	4.66	9.04	15.94	0.00078	0.00133	0.00258	0.00455	PASS
	Extreme (10°C)		13.91	6.24	5.62	1.09	0.00397	0.00178	0.00161	0.00031	PASS
	Extreme (0°C)		16.30	17.19	16.84	10.92	0.00466	0.00491	0.00481	0.00312	PASS
	Extreme (-10°C)		4.39	7.33	16.35	4.73	0.00126	0.00209	0.00467	0.00135	PASS
	Extreme (-20°C)		11.64	8.75	3.67	1.56	0.00333	0.00250	0.00105	0.00045	PASS
	Extreme (-30°C)		4.03	7.41	12.78	13.87	0.00115	0.00212	0.00365	0.00396	PASS
	25°C	LV	2.96	15.44	10.82	15.81	0.00085	0.00441	0.00309	0.00452	PASS
		HV	7.37	8.06	17.15	6.56	0.00210	0.00230	0.00490	0.00187	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	80MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	12.44	9.68	16.57	11.91	0.00355	0.00277	0.00473	0.00340	PASS
	Extreme (50°C)		11.12	8.69	4.41	1.61	0.00318	0.00248	0.00126	0.00046	PASS
	Extreme (40°C)		6.44	11.15	5.79	3.33	0.00184	0.00319	0.00165	0.00095	PASS
	Extreme (30°C)		16.99	13.91	12.34	15.18	0.00485	0.00398	0.00353	0.00434	PASS
	Extreme (20°C)		1.59	12.86	15.19	8.02	0.00046	0.00367	0.00434	0.00229	PASS
	Extreme (10°C)		10.22	14.19	4.89	13.62	0.00292	0.00405	0.00140	0.00389	PASS
	Extreme (0°C)		6.71	8.56	10.27	11.24	0.00192	0.00245	0.00293	0.00321	PASS
	Extreme (-10°C)		2.29	1.44	15.02	7.14	0.00065	0.00041	0.00429	0.00204	PASS
	Extreme (-20°C)		11.04	15.71	3.22	15.27	0.00316	0.00449	0.00092	0.00436	PASS
	Extreme (-30°C)		14.13	14.93	15.81	9.50	0.00404	0.00427	0.00452	0.00271	PASS
	25°C	LV	15.65	10.82	2.43	4.37	0.00447	0.00309	0.00069	0.00125	PASS
		HV	4.88	16.93	16.49	5.00	0.00140	0.00484	0.00471	0.00143	PASS

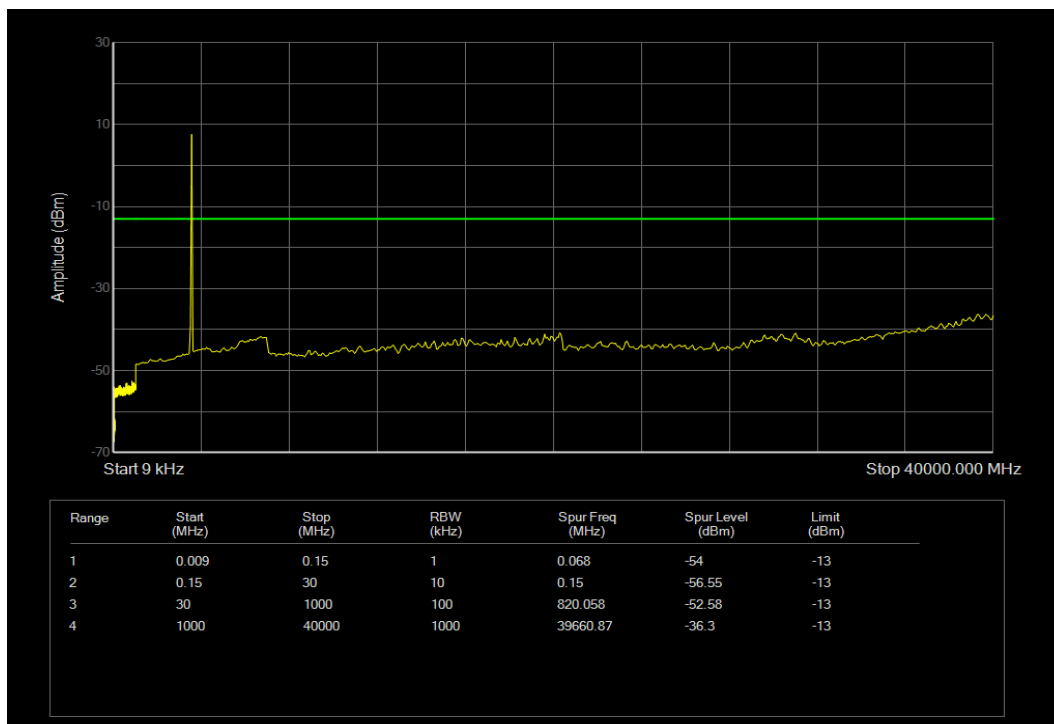
	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	90MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
MIMO NR n48	Normal (25°C)	Normal	2.93	6.80	9.56	13.85	0.00084	0.00194	0.00273	0.00396	PASS
	Extreme (50°C)		16.66	11.31	3.90	14.17	0.00476	0.00323	0.00112	0.00405	PASS
	Extreme (40°C)		5.30	10.09	10.08	12.35	0.00151	0.00288	0.00288	0.00353	PASS
	Extreme (30°C)		7.22	9.98	9.65	11.54	0.00206	0.00285	0.00276	0.00330	PASS
	Extreme (20°C)		14.29	2.18	2.83	4.27	0.00408	0.00062	0.00081	0.00122	PASS
	Extreme (10°C)		4.93	13.52	14.89	8.26	0.00141	0.00386	0.00426	0.00236	PASS
	Extreme (0°C)		10.82	14.88	12.11	4.00	0.00309	0.00425	0.00346	0.00114	PASS
	Extreme (-10°C)		3.85	15.93	9.08	12.91	0.00110	0.00455	0.00260	0.00369	PASS
	Extreme (-20°C)		12.76	8.56	10.78	16.92	0.00365	0.00244	0.00308	0.00483	PASS
	Extreme (-30°C)		5.46	10.38	5.30	3.07	0.00156	0.00296	0.00152	0.00088	PASS
	25°C	LV	11.92	1.89	14.58	11.26	0.00341	0.00054	0.00417	0.00322	PASS
		HV	10.69	13.09	11.83	7.30	0.00305	0.00374	0.00338	0.00209	PASS
MIMO NR n48	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	100MHz									
	Temperature	Voltage	256QAM	64QAM	16QAM	QPSK	256QAM	64QAM	16QAM	QPSK	
	Normal (25°C)	Normal	17.11	2.60	9.06	11.75	0.00489	0.00074	0.00259	0.00336	PASS
	Extreme (50°C)		5.30	8.76	14.84	7.97	0.00151	0.00250	0.00424	0.00228	PASS
	Extreme (40°C)		14.84	7.59	2.34	12.60	0.00424	0.00217	0.00067	0.00360	PASS
	Extreme (30°C)		16.97	16.64	17.07	12.89	0.00485	0.00475	0.00488	0.00368	PASS
	Extreme (20°C)		7.04	1.16	14.47	14.19	0.00201	0.00033	0.00413	0.00405	PASS
	Extreme (10°C)		3.13	6.58	6.83	6.26	0.00089	0.00188	0.00195	0.00179	PASS
	Extreme (0°C)		3.29	8.33	13.45	5.11	0.00094	0.00238	0.00384	0.00146	PASS
	Extreme (-10°C)		15.34	1.78	1.86	7.14	0.00438	0.00051	0.00053	0.00204	PASS
	Extreme (-20°C)		5.77	14.92	2.68	1.32	0.00165	0.00426	0.00077	0.00038	PASS
	Extreme (-30°C)		5.72	10.25	12.29	4.84	0.00164	0.00293	0.00351	0.00138	PASS
	25°C	LV	4.99	4.00	1.30	7.74	0.00143	0.00114	0.00037	0.00221	PASS
		HV	3.43	3.85	12.22	6.32	0.00098	0.00110	0.00349	0.00181	PASS

6.7. Spurious Emissions at Antenna Terminals

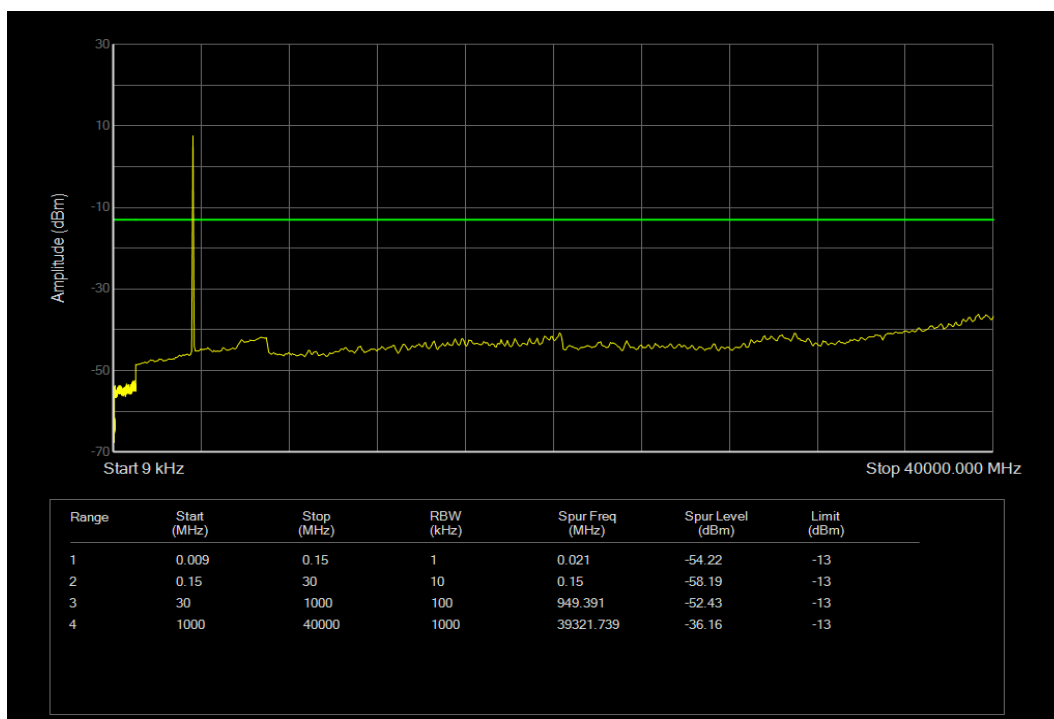
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.

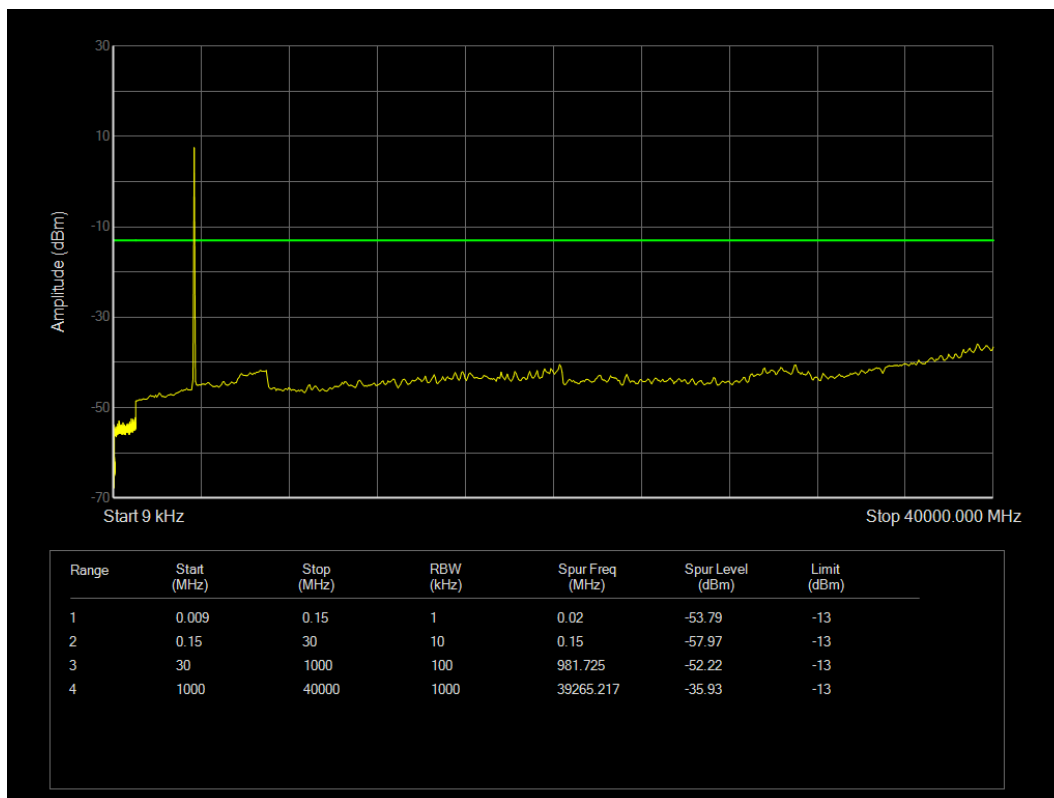
The signal beyond the limit is carrier.



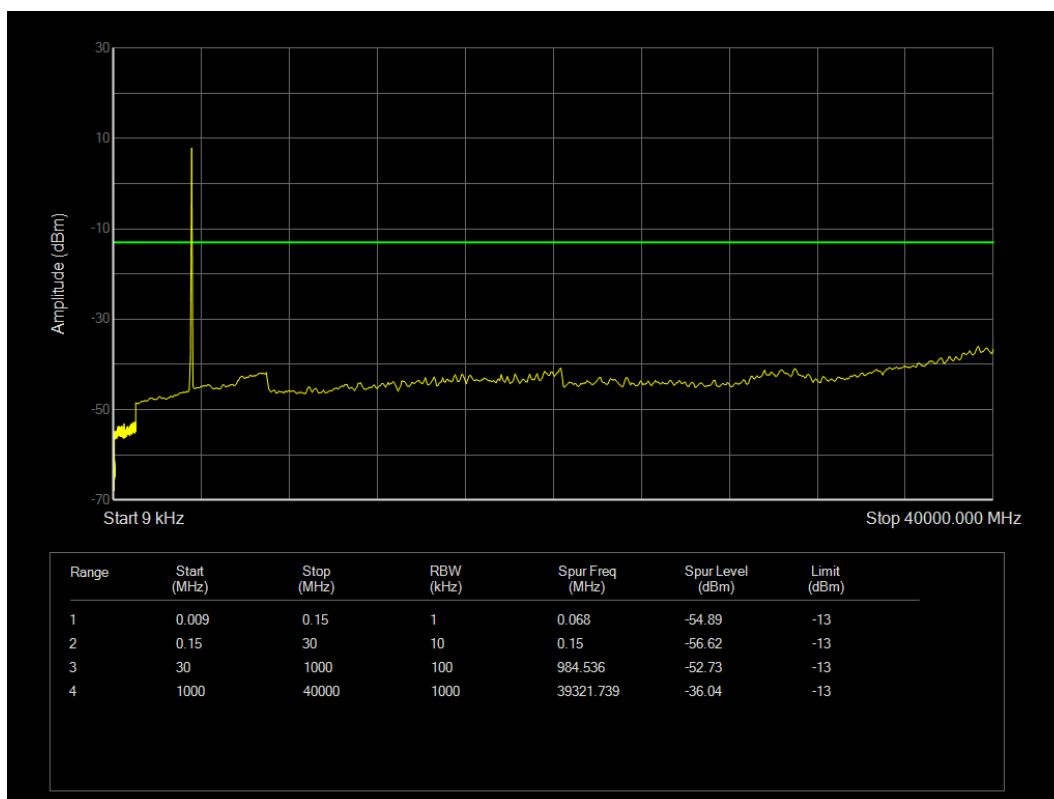
LTE Band 48 QPSK BW=10MHz Channel=55290 RB Size=1 Position=#0



LTE Band 48 QPSK BW=10MHz Channel=55990 RB Size=1 Position=#0



LTE Band 48 QPSK BW=10MHz Channel=56690 RB Size=1 Position=#0



LTE Band 48 QPSK BW=15MHz Channel=55315 RB Size=1 Position=#0