

Appendix for Band 7

Report No.: BCTC2504135595-3E

Applicant: Shanghai TUGE Data Technologies Co., Ltd.

Product Name: Smart IoT 4G Router

Test Model: TR40

Tested Date: 2025-04-03 to 2025-05-16

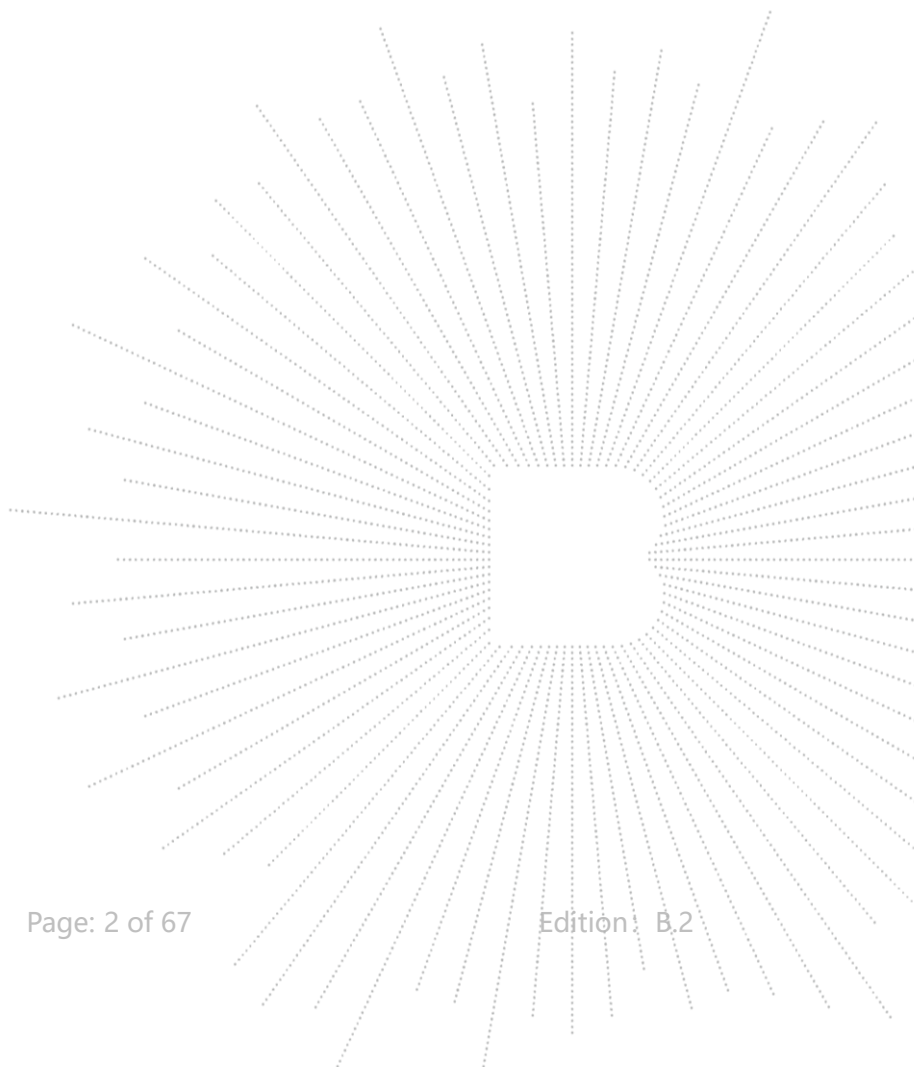
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Shenzhen BCTC Testing Co., Ltd.



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Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	24.28	PASS
Band7	5	20775	1	#Mid	QPSK	24.28	PASS
Band7	5	20775	1	#Max	QPSK	24.30	PASS
Band7	5	20775	12	#0	QPSK	23.24	PASS
Band7	5	20775	12	#Mid	QPSK	23.25	PASS
Band7	5	20775	12	#Max	QPSK	23.27	PASS
Band7	5	20775	25	#0	QPSK	23.24	PASS
Band7	5	20775	1	#0	16QAM	23.35	PASS
Band7	5	20775	1	#Mid	16QAM	23.37	PASS
Band7	5	20775	1	#Max	16QAM	23.33	PASS
Band7	5	20775	12	#0	16QAM	22.27	PASS
Band7	5	20775	12	#Mid	16QAM	22.28	PASS
Band7	5	20775	12	#Max	16QAM	22.28	PASS
Band7	5	20775	25	#0	16QAM	22.47	PASS
Band7	5	21100	1	#0	QPSK	23.86	PASS
Band7	5	21100	1	#Mid	QPSK	23.80	PASS
Band7	5	21100	1	#Max	QPSK	23.76	PASS
Band7	5	21100	12	#0	QPSK	23.04	PASS
Band7	5	21100	12	#Mid	QPSK	23.11	PASS
Band7	5	21100	12	#Max	QPSK	23.06	PASS
Band7	5	21100	25	#0	QPSK	22.94	PASS
Band7	5	21100	1	#0	16QAM	23.28	PASS
Band7	5	21100	1	#Mid	16QAM	23.32	PASS
Band7	5	21100	1	#Max	16QAM	23.32	PASS
Band7	5	21100	12	#0	16QAM	22.15	PASS
Band7	5	21100	12	#Mid	16QAM	22.13	PASS
Band7	5	21100	12	#Max	16QAM	22.13	PASS
Band7	5	21100	25	#0	16QAM	22.09	PASS
Band7	5	21425	1	#0	QPSK	23.92	PASS
Band7	5	21425	1	#Mid	QPSK	23.93	PASS
Band7	5	21425	1	#Max	QPSK	24.00	PASS
Band7	5	21425	12	#0	QPSK	23.98	PASS
Band7	5	21425	12	#Mid	QPSK	23.96	PASS
Band7	5	21425	12	#Max	QPSK	23.95	PASS
Band7	5	21425	25	#0	QPSK	23.93	PASS
Band7	5	21425	1	#0	16QAM	23.97	PASS
Band7	5	21425	1	#Mid	16QAM	24.00	PASS
Band7	5	21425	1	#Max	16QAM	24.00	PASS
Band7	5	21425	12	#0	16QAM	23.99	PASS
Band7	5	21425	12	#Mid	16QAM	23.99	PASS



Band7	5	21425	12	#Max	16QAM	23.98	PASS
Band7	5	21425	25	#0	16QAM	23.97	PASS
Band7	10	20800	1	#0	QPSK	24.23	PASS
Band7	10	20800	1	#Mid	QPSK	24.13	PASS
Band7	10	20800	1	#Max	QPSK	24.14	PASS
Band7	10	20800	25	#0	QPSK	23.11	PASS
Band7	10	20800	25	#Mid	QPSK	23.21	PASS
Band7	10	20800	25	#Max	QPSK	23.09	PASS
Band7	10	20800	50	#0	QPSK	23.12	PASS
Band7	10	20800	1	#0	16QAM	23.42	PASS
Band7	10	20800	1	#Mid	16QAM	23.35	PASS
Band7	10	20800	1	#Max	16QAM	23.37	PASS
Band7	10	20800	25	#0	16QAM	22.37	PASS
Band7	10	20800	25	#Mid	16QAM	22.30	PASS
Band7	10	20800	25	#Max	16QAM	22.36	PASS
Band7	10	20800	50	#0	16QAM	22.41	PASS
Band7	10	21100	1	#0	QPSK	23.88	PASS
Band7	10	21100	1	#Mid	QPSK	23.83	PASS
Band7	10	21100	1	#Max	QPSK	23.84	PASS
Band7	10	21100	25	#0	QPSK	22.90	PASS
Band7	10	21100	25	#Mid	QPSK	22.92	PASS
Band7	10	21100	25	#Max	QPSK	22.92	PASS
Band7	10	21100	50	#0	QPSK	23.01	PASS
Band7	10	21100	1	#0	16QAM	24.16	PASS
Band7	10	21100	1	#Mid	16QAM	24.11	PASS
Band7	10	21100	1	#Max	16QAM	24.09	PASS
Band7	10	21100	25	#0	16QAM	22.22	PASS
Band7	10	21100	25	#Mid	16QAM	22.14	PASS
Band7	10	21100	25	#Max	16QAM	22.08	PASS
Band7	10	21100	50	#0	16QAM	22.10	PASS
Band7	10	21400	1	#0	QPSK	23.87	PASS
Band7	10	21400	1	#Mid	QPSK	23.79	PASS
Band7	10	21400	1	#Max	QPSK	23.80	PASS
Band7	10	21400	25	#0	QPSK	22.92	PASS
Band7	10	21400	25	#Mid	QPSK	22.86	PASS
Band7	10	21400	25	#Max	QPSK	22.89	PASS
Band7	10	21400	50	#0	QPSK	22.90	PASS
Band7	10	21400	1	#0	16QAM	24.02	PASS
Band7	10	21400	1	#Mid	16QAM	24.07	PASS
Band7	10	21400	1	#Max	16QAM	24.00	PASS
Band7	10	21400	25	#0	16QAM	22.12	PASS
Band7	10	21400	25	#Mid	16QAM	22.15	PASS
Band7	10	21400	25	#Max	16QAM	22.09	PASS
Band7	10	21400	50	#0	16QAM	22.20	PASS

Band7	15	20825	1	#0	QPSK	24.45	PASS
Band7	15	20825	1	#Mid	QPSK	24.38	PASS
Band7	15	20825	1	#Max	QPSK	24.27	PASS
Band7	15	20825	36	#0	QPSK	23.06	PASS
Band7	15	20825	36	#Mid	QPSK	23.21	PASS
Band7	15	20825	36	#Max	QPSK	23.09	PASS
Band7	15	20825	75	#0	QPSK	23.16	PASS
Band7	15	20825	1	#0	16QAM	24.06	PASS
Band7	15	20825	1	#Mid	16QAM	23.99	PASS
Band7	15	20825	1	#Max	16QAM	23.92	PASS
Band7	15	20825	36	#0	16QAM	22.25	PASS
Band7	15	20825	36	#Mid	16QAM	22.27	PASS
Band7	15	20825	36	#Max	16QAM	22.29	PASS
Band7	15	20825	75	#0	16QAM	22.30	PASS
Band7	15	21100	1	#0	QPSK	23.96	PASS
Band7	15	21100	1	#Mid	QPSK	23.92	PASS
Band7	15	21100	1	#Max	QPSK	23.95	PASS
Band7	15	21100	36	#0	QPSK	23.02	PASS
Band7	15	21100	36	#Mid	QPSK	23.08	PASS
Band7	15	21100	36	#Max	QPSK	23.09	PASS
Band7	15	21100	75	#0	QPSK	23.11	PASS
Band7	15	21100	1	#0	16QAM	24.10	PASS
Band7	15	21100	1	#Mid	16QAM	24.25	PASS
Band7	15	21100	1	#Max	16QAM	24.15	PASS
Band7	15	21100	36	#0	16QAM	22.31	PASS
Band7	15	21100	36	#Mid	16QAM	22.13	PASS
Band7	15	21100	36	#Max	16QAM	22.22	PASS
Band7	15	21100	75	#0	16QAM	22.12	PASS
Band7	15	21375	1	#0	QPSK	23.88	PASS
Band7	15	21375	1	#Mid	QPSK	23.90	PASS
Band7	15	21375	1	#Max	QPSK	23.81	PASS
Band7	15	21375	36	#0	QPSK	22.91	PASS
Band7	15	21375	36	#Mid	QPSK	23.07	PASS
Band7	15	21375	36	#Max	QPSK	22.99	PASS
Band7	15	21375	75	#0	QPSK	23.00	PASS
Band7	15	21375	1	#0	16QAM	24.12	PASS
Band7	15	21375	1	#Mid	16QAM	24.09	PASS
Band7	15	21375	1	#Max	16QAM	24.01	PASS
Band7	15	21375	36	#0	16QAM	22.14	PASS
Band7	15	21375	36	#Mid	16QAM	22.17	PASS
Band7	15	21375	36	#Max	16QAM	22.19	PASS
Band7	15	21375	75	#0	16QAM	22.13	PASS
Band7	20	20850	1	#0	QPSK	24.35	PASS
Band7	20	20850	1	#Mid	QPSK	24.21	PASS

Band7	20	20850	1	#Max	QPSK	24.13	PASS
Band7	20	20850	50	#0	QPSK	23.04	PASS
Band7	20	20850	50	#Mid	QPSK	23.15	PASS
Band7	20	20850	50	#Max	QPSK	23.21	PASS
Band7	20	20850	100	#0	QPSK	23.10	PASS
Band7	20	20850	1	#0	16QAM	23.79	PASS
Band7	20	20850	1	#Mid	16QAM	23.79	PASS
Band7	20	20850	1	#Max	16QAM	23.08	PASS
Band7	20	20850	50	#0	16QAM	22.32	PASS
Band7	20	20850	50	#Mid	16QAM	22.26	PASS
Band7	20	20850	50	#Max	16QAM	22.23	PASS
Band7	20	20850	100	#0	16QAM	22.33	PASS
Band7	20	21100	1	#0	QPSK	24.13	PASS
Band7	20	21100	1	#Mid	QPSK	24.06	PASS
Band7	20	21100	1	#Max	QPSK	24.06	PASS
Band7	20	21100	50	#0	QPSK	23.09	PASS
Band7	20	21100	50	#Mid	QPSK	23.04	PASS
Band7	20	21100	50	#Max	QPSK	23.03	PASS
Band7	20	21100	100	#0	QPSK	22.96	PASS
Band7	20	21100	1	#0	16QAM	23.49	PASS
Band7	20	21100	1	#Mid	16QAM	23.47	PASS
Band7	20	21100	1	#Max	16QAM	23.51	PASS
Band7	20	21100	50	#0	16QAM	22.27	PASS
Band7	20	21100	50	#Mid	16QAM	22.26	PASS
Band7	20	21100	50	#Max	16QAM	22.23	PASS
Band7	20	21100	100	#0	16QAM	22.13	PASS
Band7	20	21350	1	#0	QPSK	24.06	PASS
Band7	20	21350	1	#Mid	QPSK	24.04	PASS
Band7	20	21350	1	#Max	QPSK	24.02	PASS
Band7	20	21350	50	#0	QPSK	22.85	PASS
Band7	20	21350	50	#Mid	QPSK	22.90	PASS
Band7	20	21350	50	#Max	QPSK	22.98	PASS
Band7	20	21350	100	#0	QPSK	22.99	PASS
Band7	20	21350	1	#0	16QAM	23.52	PASS
Band7	20	21350	1	#Mid	16QAM	23.58	PASS
Band7	20	21350	1	#Max	16QAM	23.46	PASS
Band7	20	21350	50	#0	16QAM	22.20	PASS
Band7	20	21350	50	#Mid	16QAM	22.06	PASS
Band7	20	21350	50	#Max	16QAM	22.18	PASS
Band7	20	21350	100	#0	16QAM	22.07	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	LV	NT	-25.53	-0.010	-2.5	2.5	PASS
Band7	5	20775	25	#0	QPSK	NV	NT	-47.14	-0.019	-2.5	2.5	PASS
Band7	5	20775	25	#0	QPSK	HV	NT	-31.04	-0.012	-2.5	2.5	PASS
Band7	5	20775	25	#0	16QAM	LV	NT	-29.24	-0.012	-2.5	2.5	PASS
Band7	5	20775	25	#0	16QAM	NV	NT	-40.44	-0.016	-2.5	2.5	PASS
Band7	5	20775	25	#0	16QAM	HV	NT	-36.86	-0.015	-2.5	2.5	PASS
Band7	5	21100	25	#0	QPSK	LV	NT	-20.17	-0.008	-2.5	2.5	PASS
Band7	5	21100	25	#0	QPSK	NV	NT	-33.52	-0.013	-2.5	2.5	PASS
Band7	5	21100	25	#0	QPSK	HV	NT	-35.55	-0.014	-2.5	2.5	PASS
Band7	5	21100	25	#0	16QAM	LV	NT	-38.80	-0.015	-2.5	2.5	PASS
Band7	5	21100	25	#0	16QAM	NV	NT	-31.53	-0.012	-2.5	2.5	PASS
Band7	5	21100	25	#0	16QAM	HV	NT	-27.14	-0.011	-2.5	2.5	PASS
Band7	5	21425	25	#0	QPSK	LV	NT	-31.73	-0.012	-2.5	2.5	PASS
Band7	5	21425	25	#0	QPSK	NV	NT	-27.08	-0.011	-2.5	2.5	PASS
Band7	5	21425	25	#0	QPSK	HV	NT	-27.24	-0.011	-2.5	2.5	PASS
Band7	5	21425	25	#0	16QAM	LV	NT	-33.16	-0.013	-2.5	2.5	PASS
Band7	5	21425	25	#0	16QAM	NV	NT	-38.97	-0.015	-2.5	2.5	PASS
Band7	5	21425	25	#0	16QAM	HV	NT	-33.66	-0.013	-2.5	2.5	PASS



Ban d7	10	20800	50	#0	QPSK	LV	NT	-26. 68	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	NT	-23. 67	-0.0 09	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	HV	NT	-28. 75	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	LV	NT	-26. 88	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	NT	-35. 85	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	HV	NT	-22. 53	-0.0 09	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	LV	NT	-15. 32	-0.0 06	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	NT	-20. 61	-0.0 08	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	HV	NT	-38. 95	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	LV	NT	-34. 80	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	NT	-24. 96	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	HV	NT	-29. 17	-0.0 12	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	LV	NT	-39. 32	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	NT	-39. 95	-0.0 16	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	HV	NT	-25. 62	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	LV	NT	-32. 89	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	NT	-34. 02	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	HV	NT	-30. 06	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	LV	NT	-36. 46	-0.0 15	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	NT	-36. 06	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	HV	NT	-38. 87	-0.0 16	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	LV	NT	-26. 92	-0.01 1	-2.5	2.5	PAS S



Ban d7	15	20825	75	#0	16QAM	NV	NT	-30. 90	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	HV	NT	-41. 40	-0.0 17	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	LV	NT	-36. 54	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	NT	-31. 00	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	HV	NT	-33. 95	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	LV	NT	-30. 83	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	NT	-32. 89	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	HV	NT	-26. 66	-0.01 1	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	LV	NT	-21. 69	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	NT	-36. 25	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	HV	NT	-30. 48	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	LV	NT	-30. 17	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	NT	-29. 43	-0.01 1	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	HV	NT	-28. 05	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	LV	NT	-14. 59	-0.0 06	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	NT	-30. 26	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	HV	NT	-22. 63	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	LV	NT	-26. 84	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	NT	-34. 05	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	HV	NT	-31. 61	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	LV	NT	-25. 68	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	NT	-19. 80	-0.0 08	-2.5	2.5	PAS S



Ban d7	20	21100	10 0	#0	QPSK	HV	NT	-29. 55	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	LV	NT	-28. 01	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	NT	-27. 45	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	HV	NT	-22. 39	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	LV	NT	-6.5 8	-0.0 03	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	NT	-27. 84	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	HV	NT	-26. 18	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	LV	NT	-26. 74	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	NT	-18. 81	-0.0 07	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	HV	NT	-33. 90	-0.0 13	-2.5	2.5	PAS S

Ban d	Bandwi dth (MHz)	UL Chann el	RB Siz e	RB Positi on	Modulati on	Volta ge (Vdc)	Temperat ue (C)	Res ult (Hz)	Res ult (pp m)	Low Limi t (pp m)	high Limi t (pp m)	Verdi ct
Ban d7	5	20775	25	#0	QPSK	NV	-30	-29.1 1	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	-20	-33. 47	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	0	-33. 66	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	10	-31. 94	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	20	-41. 48	-0.0 17	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	30	-48. 21	-0.0 19	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	40	-32. 33	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	QPSK	NV	50	-48. 24	-0.0 19	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	-30	-36. 33	-0.0 15	-2.5	2.5	PAS S



Ban d7	5	20775	25	#0	16QAM	NV	-20	-40. 77	-0.0 16	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	0	-32. 54	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	10	-29. 27	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	20	-36. 06	-0.0 14	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	30	-33. 77	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	40	-31. 04	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	20775	25	#0	16QAM	NV	50	-36. 92	-0.0 15	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	-30	-22. 39	-0.0 09	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	-20	-30. 50	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	0	-33. 70	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	10	-24. 48	-0.0 10	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	20	-31. 90	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	30	-31. 76	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	40	-32. 57	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	QPSK	NV	50	-19. 28	-0.0 08	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	-30	-30. 77	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	-20	-24. 89	-0.0 10	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	0	-40. 53	-0.0 16	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	10	-37. 18	-0.0 15	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	20	-32. 14	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	30	-32. 47	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21100	25	#0	16QAM	NV	40	-23. 78	-0.0 09	-2.5	2.5	PAS S



Ban d7	5	21100	25	#0	16QAM	NV	50	-21.1 1	-0.0 08	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	-30	-35. 49	-0.0 14	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	-20	-24. 02	-0.0 09	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	0	-25. 18	-0.0 10	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	10	-31. 56	-0.0 12	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	20	-27. 78	-0.01 1	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	30	-33. 39	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	40	-22. 34	-0.0 09	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	QPSK	NV	50	-39. 27	-0.0 15	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	-30	-24. 73	-0.0 10	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	-20	-34. 80	-0.0 14	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	0	-28. 10	-0.01 1	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	10	-32. 56	-0.0 13	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	20	-34. 72	-0.0 14	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	30	-21. 90	-0.0 09	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	40	-15. 08	-0.0 06	-2.5	2.5	PAS S
Ban d7	5	21425	25	#0	16QAM	NV	50	-44. 25	-0.0 17	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	-30	-20. 53	-0.0 08	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	-20	-26. 87	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	0	-38. 17	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	10	-38. 65	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	20	-22. 86	-0.0 09	-2.5	2.5	PAS S



Ban d7	10	20800	50	#0	QPSK	NV	30	-36. 01	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	40	-38. 78	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	QPSK	NV	50	-32. 62	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	-30	-31. 54	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	-20	-34. 52	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	0	-34. 79	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	10	-28. 78	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	20	-37. 08	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	30	-36. 15	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	40	-26. 44	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	20800	50	#0	16QAM	NV	50	-25. 19	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	-30	-28. 38	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	-20	-40. 56	-0.0 16	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	0	-20. 18	-0.0 08	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	10	-28. 91	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	20	-34. 12	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	30	-12. 47	-0.0 05	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	40	-37. 36	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	QPSK	NV	50	-22. 20	-0.0 09	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	-30	-36. 22	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	-20	-27. 91	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	0	-28. 18	-0.01 1	-2.5	2.5	PAS S



Ban d7	10	21100	50	#0	16QAM	NV	10	-42. 33	-0.0 17	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	20	-30. 16	-0.0 12	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	30	-34. 70	-0.0 14	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	40	-31. 96	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	21100	50	#0	16QAM	NV	50	-40. 74	-0.0 16	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	-30	-20. 38	-0.0 08	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	-20	-18. 41	-0.0 07	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	0	-27. 17	-0.01 1	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	10	-39. 48	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	20	-31. 27	-0.0 12	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	30	-25. 51	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	40	-19. 51	-0.0 08	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	QPSK	NV	50	-31. 17	-0.0 12	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	-30	-33. 33	-0.0 13	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	-20	-25. 65	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	0	-39. 41	-0.0 15	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	10	-25. 91	-0.0 10	-2.5	2.5	PAS S
Ban d7	10	21400	50	#0	16QAM	NV	20	-28. 78	-0.01 1	-2.5	2.5	PAS S
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Ban d7	15	20825	75	#0	QPSK	NV	0	-26. 06	-0.0 10	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	10	-33. 96	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	20	-31. 63	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	30	-20. 00	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	40	-31. 49	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	QPSK	NV	50	-29. 05	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	-30	-37. 21	-0.0 15	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	-20	-18. 64	-0.0 07	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	0	-27. 82	-0.01 1	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	10	-31. 60	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	20	-19. 21	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	30	-31. 07	-0.0 12	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	40	-15. 82	-0.0 06	-2.5	2.5	PAS S
Ban d7	15	20825	75	#0	16QAM	NV	50	-33. 39	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	-30	7.55	0.00 3	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	-20	-22. 43	-0.0 09	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	0	-36. 92	-0.0 15	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	10	-12. 02	-0.0 05	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	20	-27. 32	-0.01 1	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	30	5.76	0.00 2	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	QPSK	NV	40	-27. 17	-0.01 1	-2.5	2.5	PAS S



Ban d7	15	21100	75	#0	QPSK	NV	50	-14. 29	-0.0 06	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	-30	-32. 06	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	-20	-15. 65	-0.0 06	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	0	-6.9 1	-0.0 03	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	10	-20. 77	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	20	-39. 41	-0.0 16	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	30	-22. 06	-0.0 09	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	40	-35. 53	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	21100	75	#0	16QAM	NV	50	-3.0 0	-0.0 01	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	-30	-19. 25	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	-20	-36. 81	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	0	-33. 02	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	10	-9.9 4	-0.0 04	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	20	-20. 97	-0.0 08	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	30	-22. 70	-0.0 09	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	40	-22. 46	-0.0 09	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	QPSK	NV	50	-24. 52	-0.0 10	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	-30	-34. 68	-0.0 14	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	-20	-32. 27	-0.0 13	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	0	-14. 19	-0.0 06	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	10	-29. 45	-0.01 1	-2.5	2.5	PAS S
Ban d7	15	21375	75	#0	16QAM	NV	20	-26. 25	-0.0 10	-2.5	2.5	PAS S

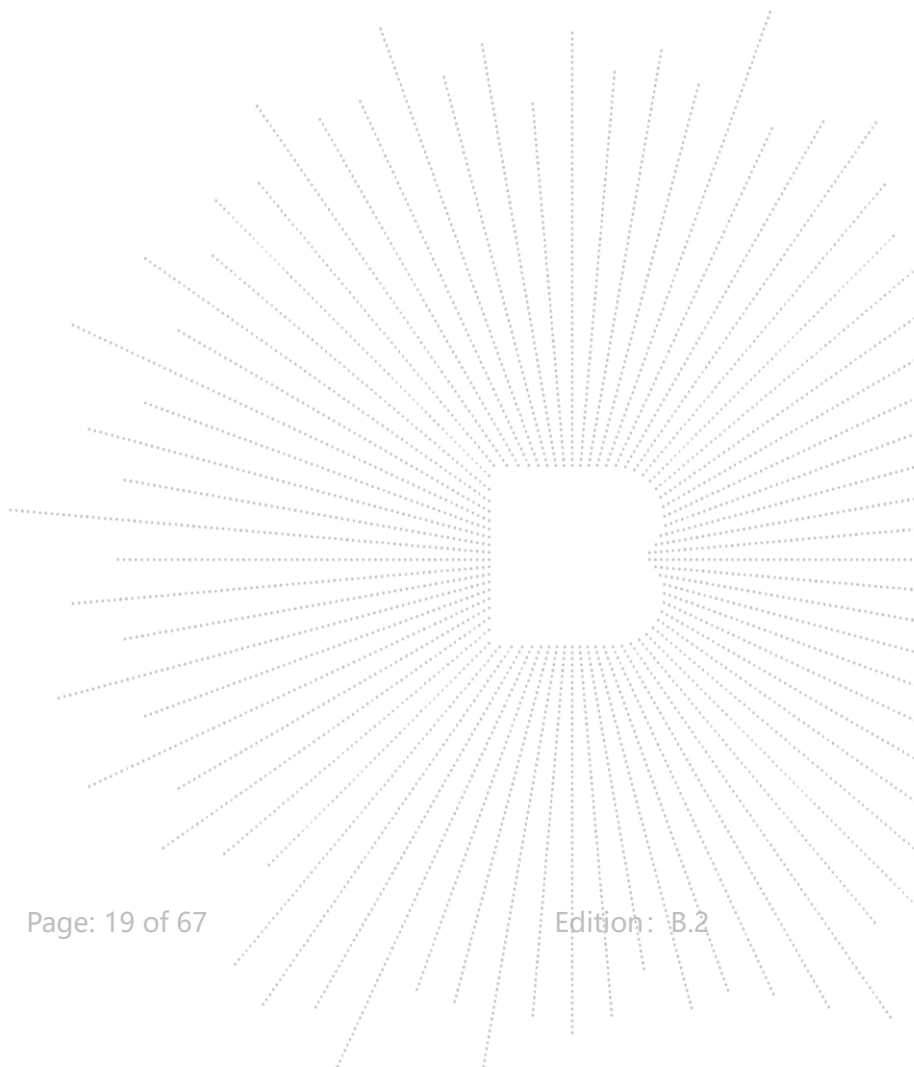


Ban d7	15	21375	75	#0	16QAM	NV	30	-38. 72	-0.0 15	-2.5	2.5	PAS S
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Ban d7	20	20850	10 0	#0	QPSK	NV	-20	-28. 22	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	0	-40. 30	-0.0 16	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	10	-28. 60	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	20	-23. 32	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	30	-34. 59	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	40	-21. 94	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	QPSK	NV	50	-36. 23	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	-30	-33. 57	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	-20	-30. 73	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	0	-39. 27	-0.0 16	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	10	-39. 24	-0.0 16	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	20	-34. 28	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	30	-33. 55	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	40	-36. 68	-0.0 15	-2.5	2.5	PAS S
Ban d7	20	20850	10 0	#0	16QAM	NV	50	-39. 61	-0.0 16	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	-30	-34. 13	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	-20	-31. 20	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	0	-24. 89	-0.0 10	-2.5	2.5	PAS S



Ban d7	20	21100	10 0	#0	QPSK	NV	10	-28. 62	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	20	-24. 59	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	30	-33. 46	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	40	-37. 84	-0.0 15	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	QPSK	NV	50	-18. 48	-0.0 07	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	-30	-27. 52	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	-20	-25. 38	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	0	-24. 36	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	10	-20. 47	-0.0 08	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	20	-22. 12	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	30	-28. 04	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	40	-22. 40	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	21100	10 0	#0	16QAM	NV	50	-23. 80	-0.0 09	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	-30	-33. 27	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	-20	-25. 45	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	0	-37. 38	-0.0 15	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	10	-29. 80	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	20	-35. 69	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	30	-30. 77	-0.0 12	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	40	-32. 33	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	QPSK	NV	50	-27. 74	-0.01 1	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	-30	-31. 49	-0.0 12	-2.5	2.5	PAS S

Ban d7	20	21350	10 0	#0	16QAM	NV	-20	-25. 66	-0.0 10	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	0	-35. 85	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	10	-34. 85	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	20	-33. 52	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	30	-35. 61	-0.0 14	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	40	-33. 39	-0.0 13	-2.5	2.5	PAS S
Ban d7	20	21350	10 0	#0	16QAM	NV	50	-31. 33	-0.0 12	-2.5	2.5	PAS S

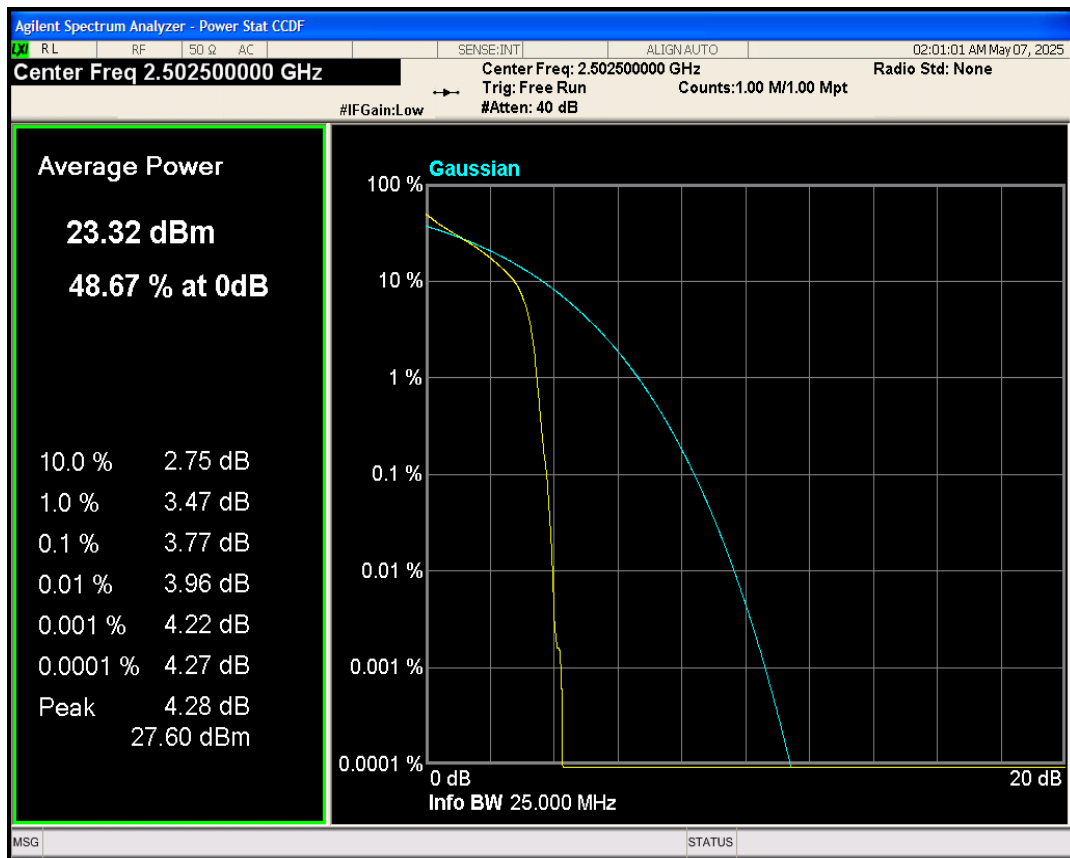


Appendix 3. Peak-to-Average Ratio

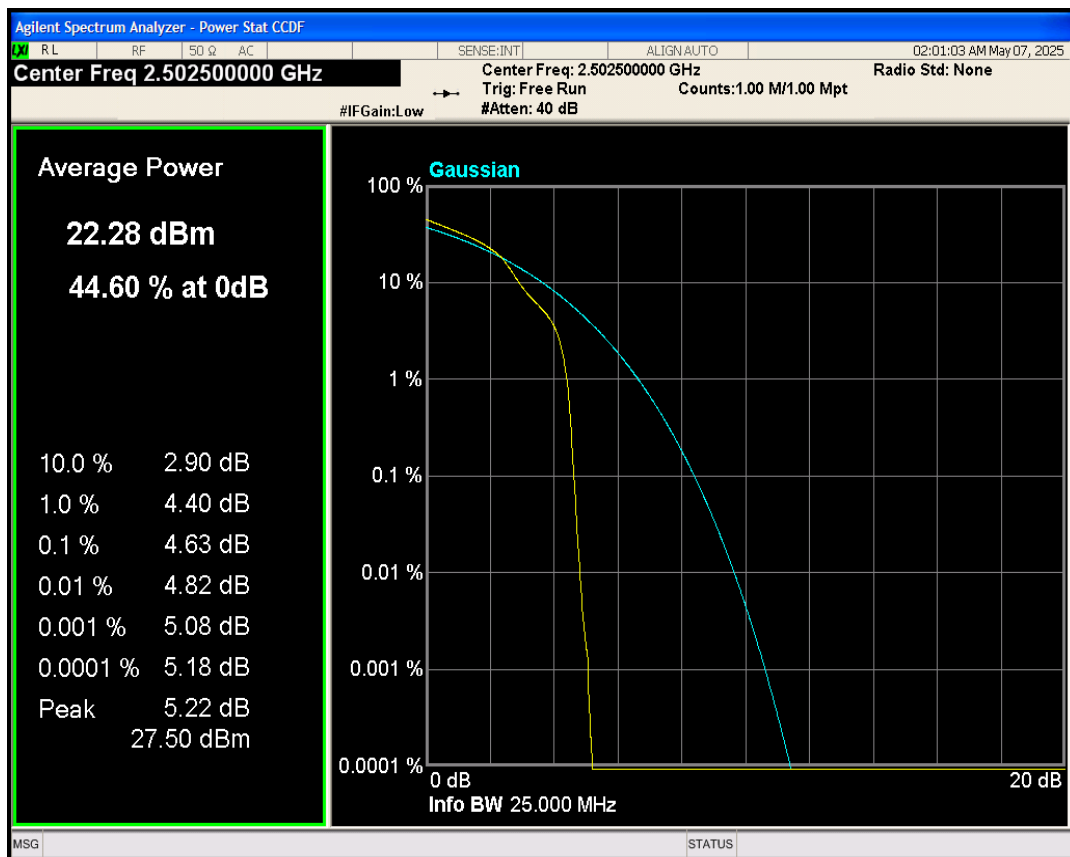
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	20775	1	#0	QPSK	3.77	13	PASS
Band7	5	20775	1	#0	16QAM	4.63	13	PASS
Band7	5	21100	1	#0	QPSK	3.47	13	PASS
Band7	5	21100	1	#0	16QAM	4.41	13	PASS
Band7	5	21425	1	#0	QPSK	4.54	13	PASS
Band7	5	21425	1	#0	16QAM	5.75	13	PASS
Band7	10	20800	1	#0	QPSK	3.91	13	PASS
Band7	10	20800	1	#0	16QAM	4.84	13	PASS
Band7	10	21100	1	#0	QPSK	3.62	13	PASS
Band7	10	21100	1	#0	16QAM	4.28	13	PASS
Band7	10	21400	1	#0	QPSK	4.73	13	PASS
Band7	10	21400	1	#0	16QAM	5.98	13	PASS
Band7	15	20825	1	#0	QPSK	3.93	13	PASS
Band7	15	20825	1	#0	16QAM	4.89	13	PASS
Band7	15	21100	1	#0	QPSK	3.88	13	PASS
Band7	15	21100	1	#0	16QAM	4.53	13	PASS
Band7	15	21375	1	#0	QPSK	5.09	13	PASS
Band7	15	21375	1	#0	16QAM	5.83	13	PASS
Band7	20	20850	1	#0	QPSK	3.90	13	PASS
Band7	20	20850	1	#0	16QAM	5.10	13	PASS
Band7	20	21100	1	#0	QPSK	4.02	13	PASS
Band7	20	21100	1	#0	16QAM	5.13	13	PASS
Band7	20	21350	1	#0	QPSK	4.77	13	PASS
Band7	20	21350	1	#0	16QAM	5.69	13	PASS



Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0

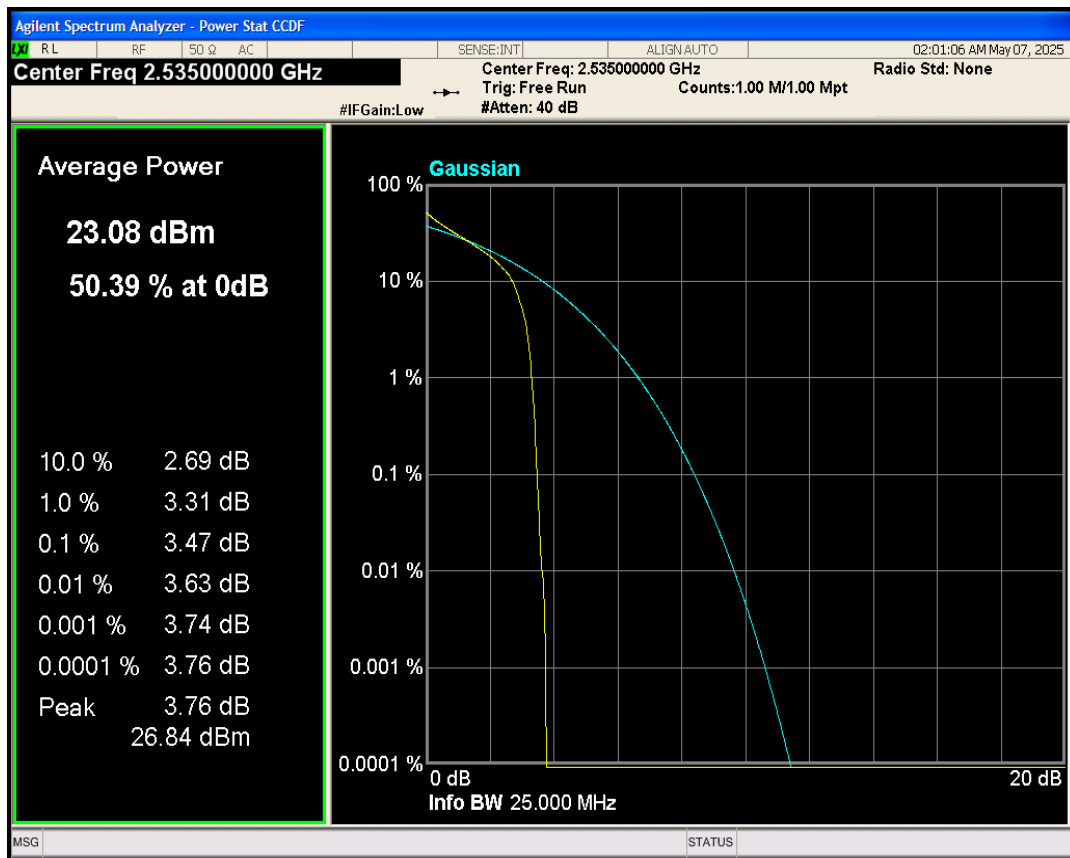


Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0

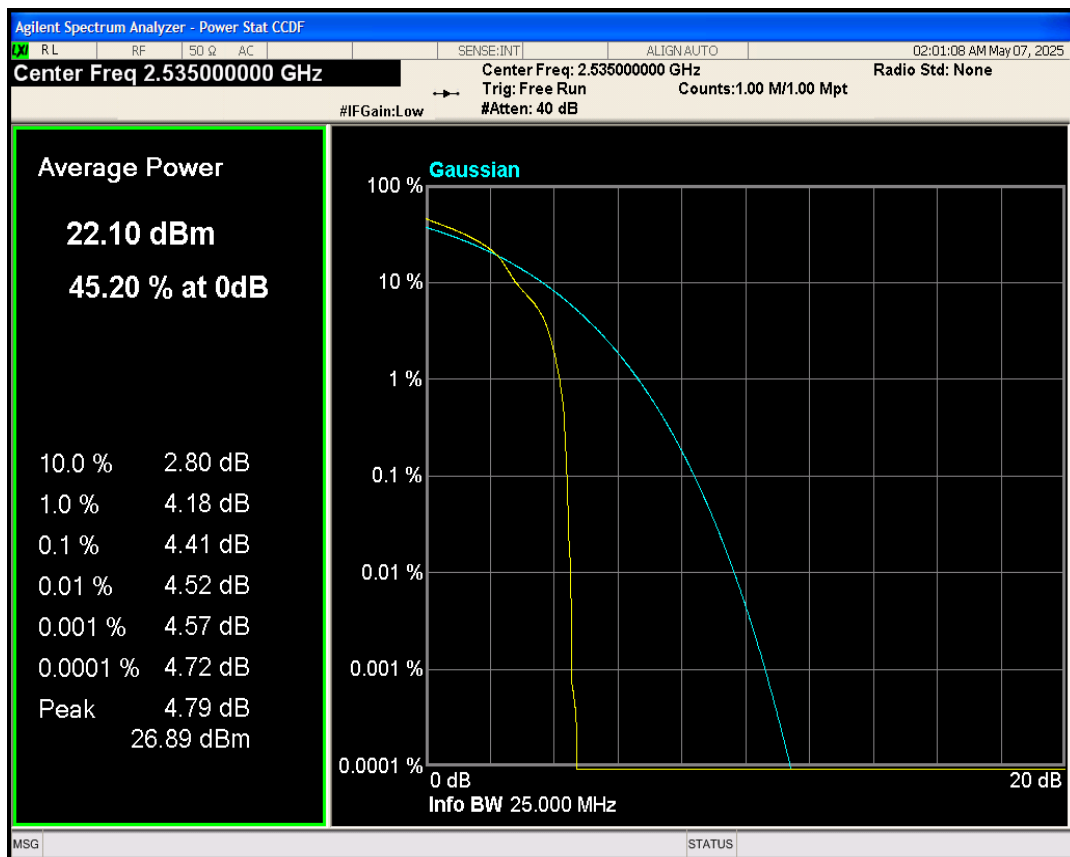




Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0

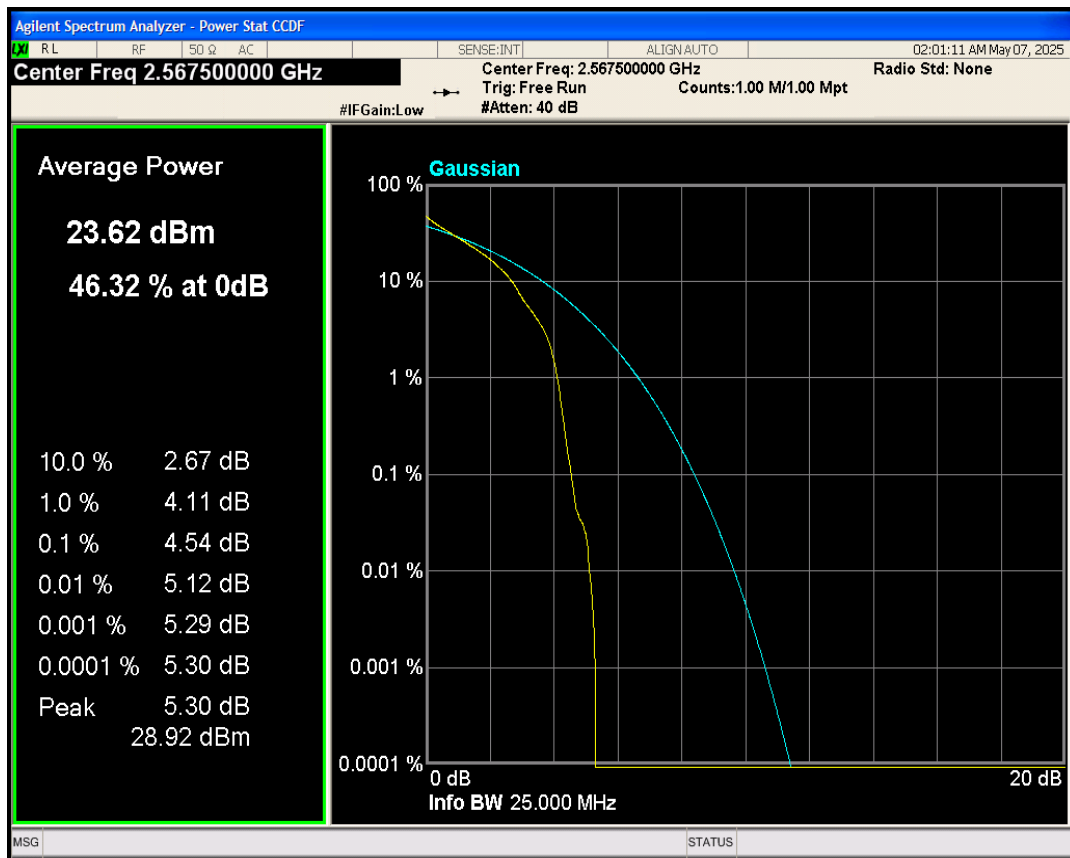


Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0

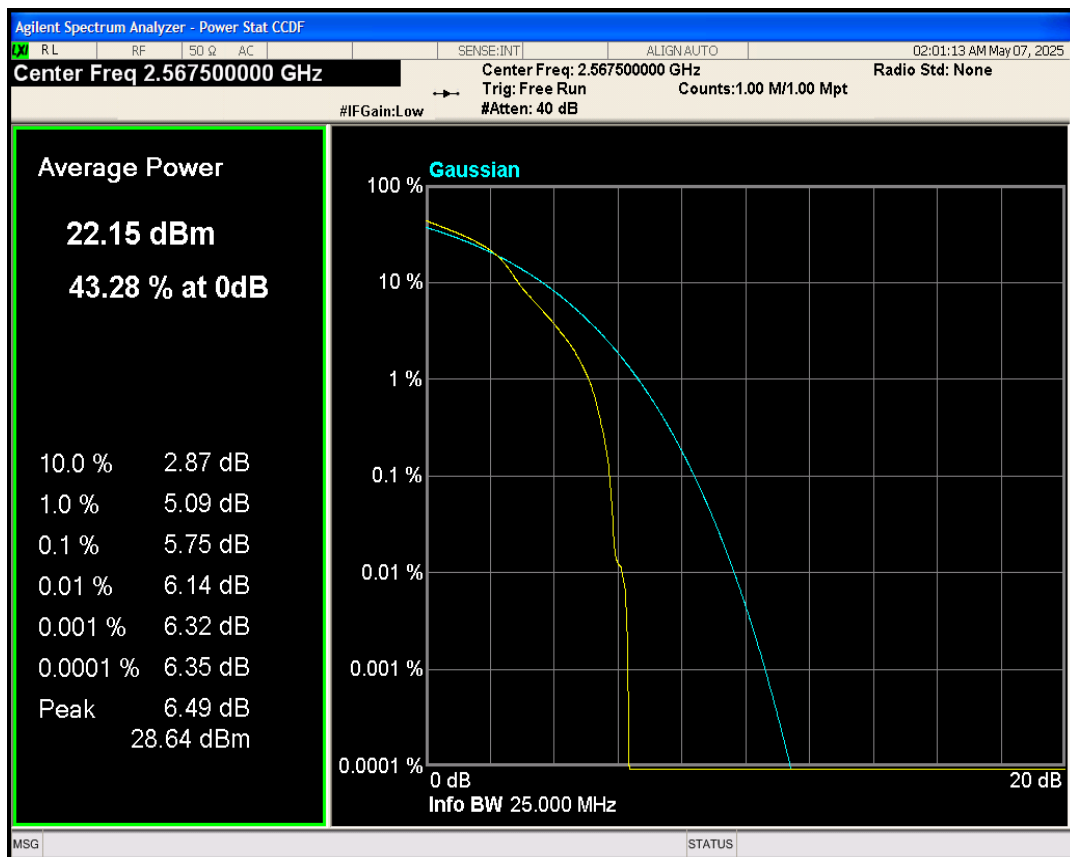




Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0

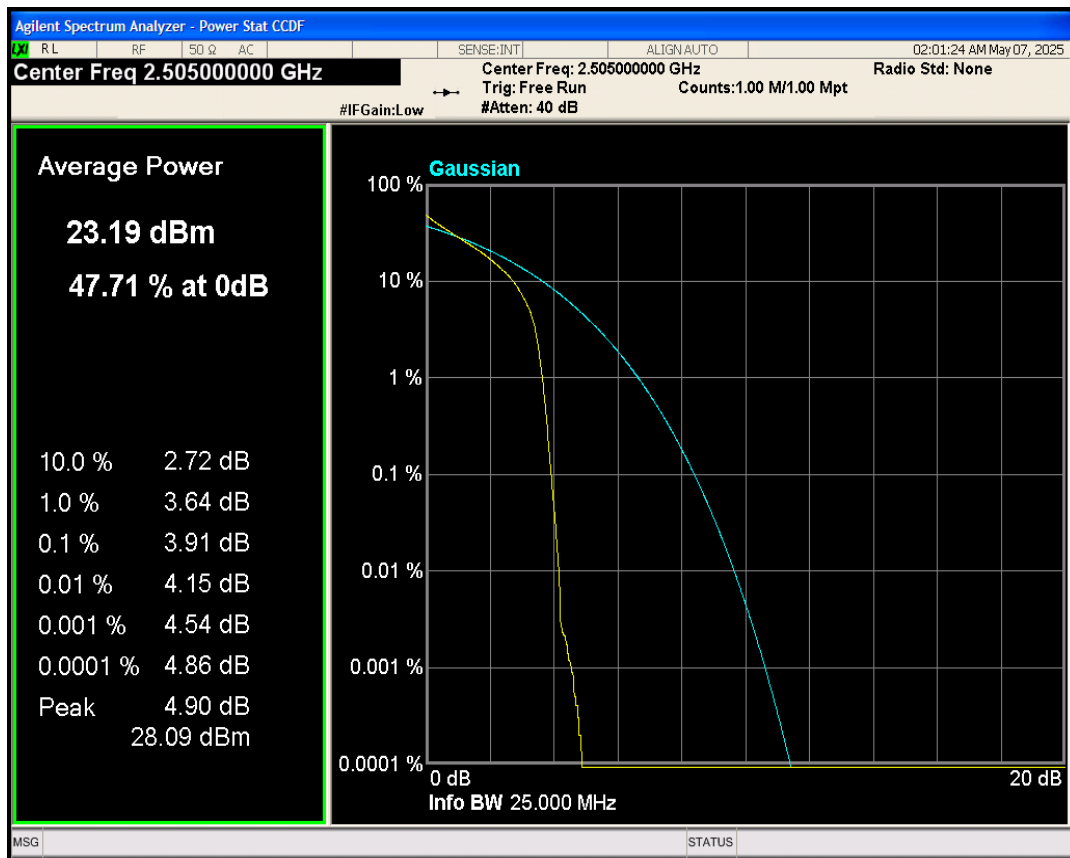


Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0

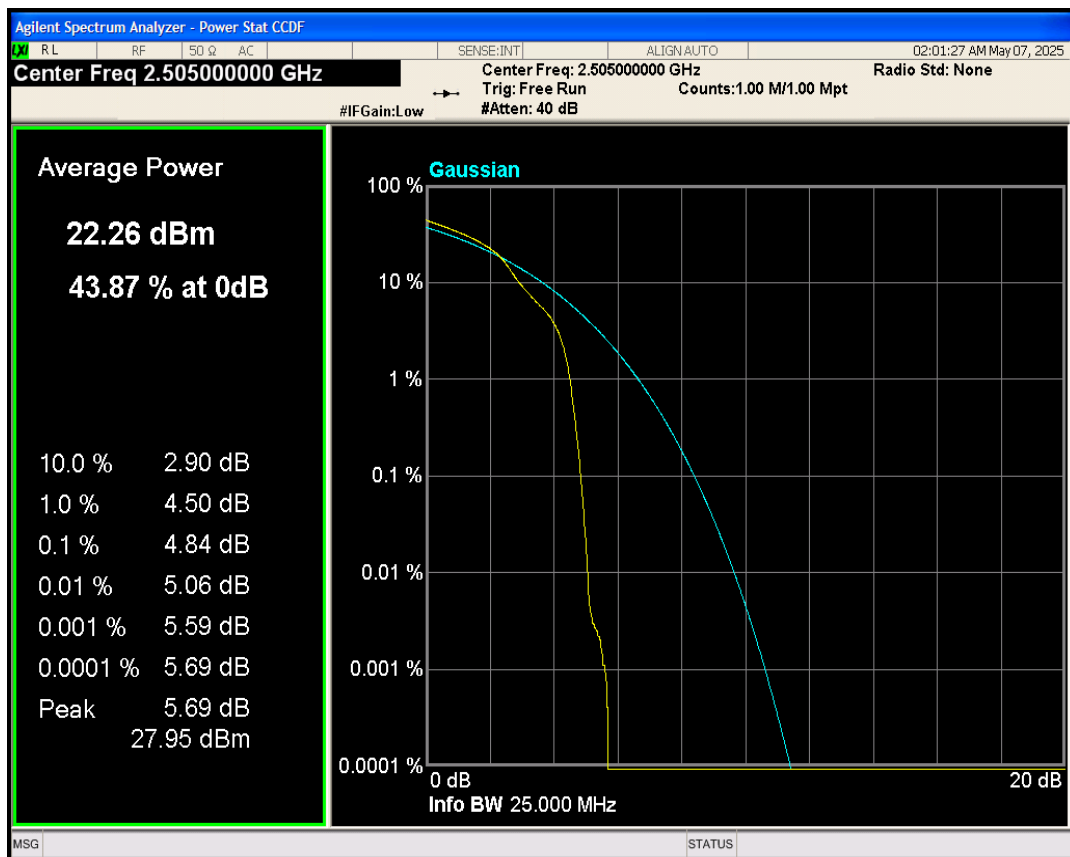




Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0

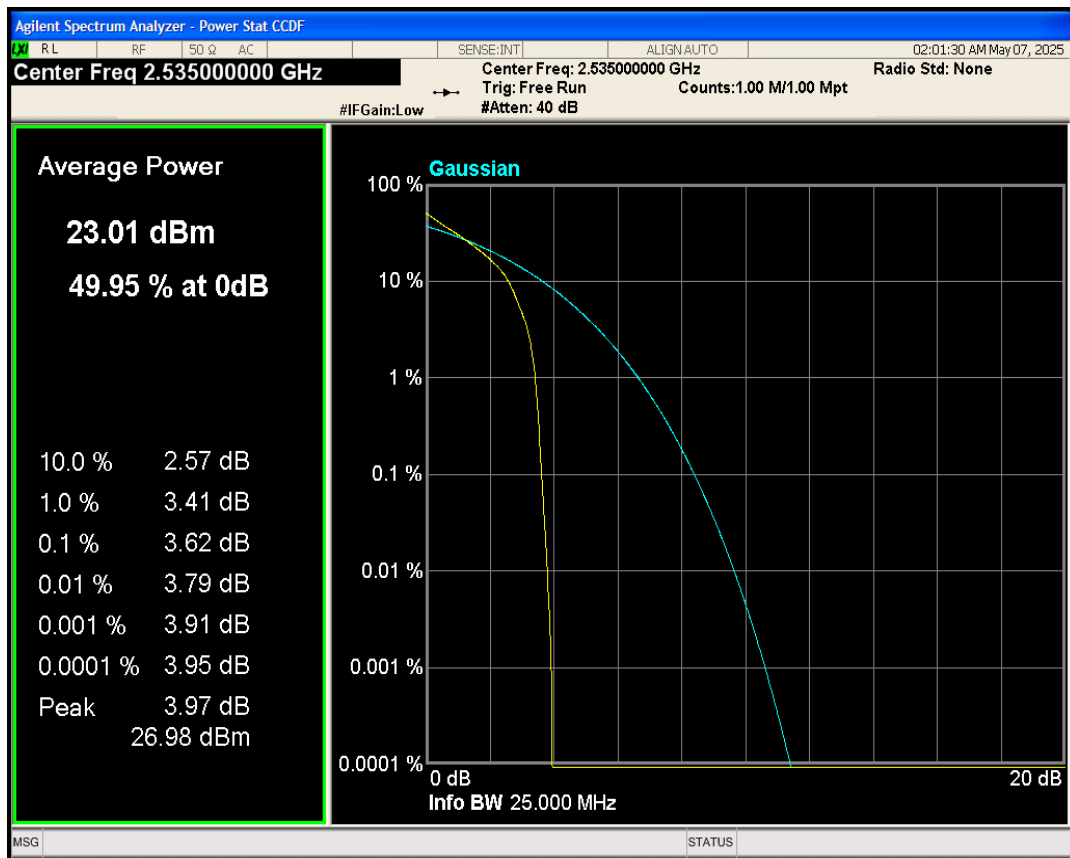


Band7 16QAM BW=10MHz Channel=20800 RB Size=1 Position=#0

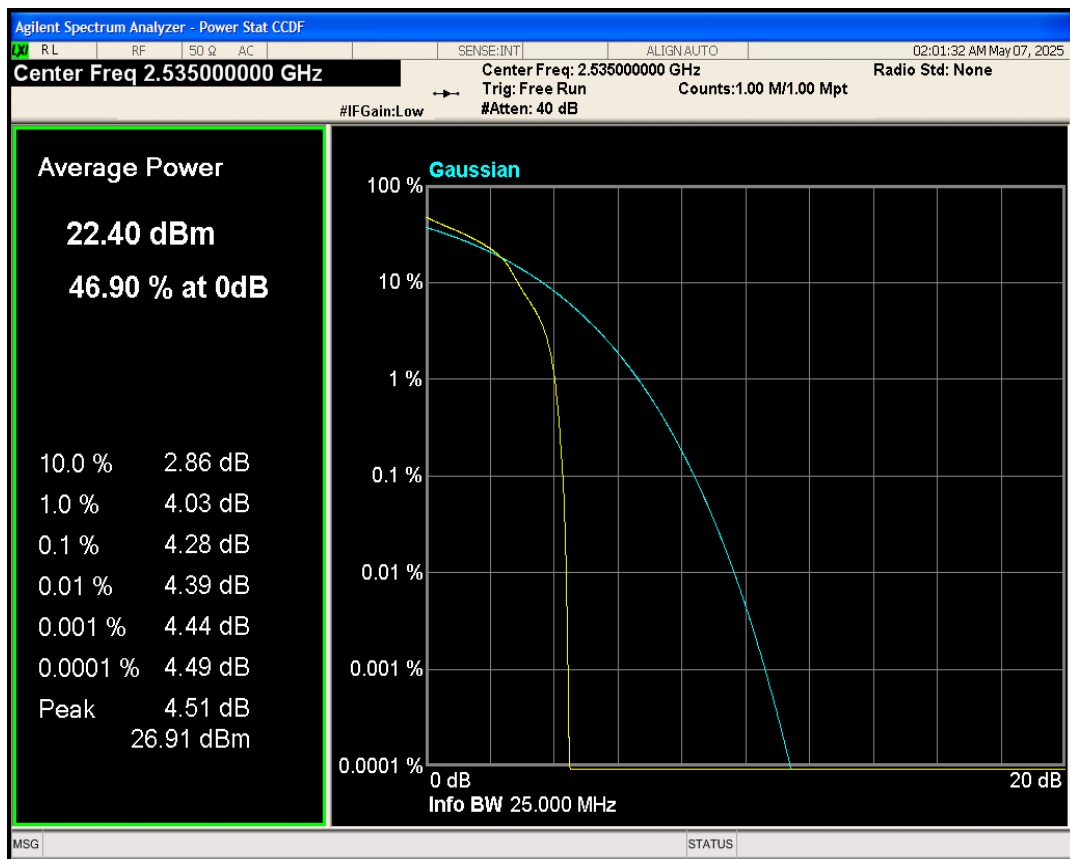




Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0

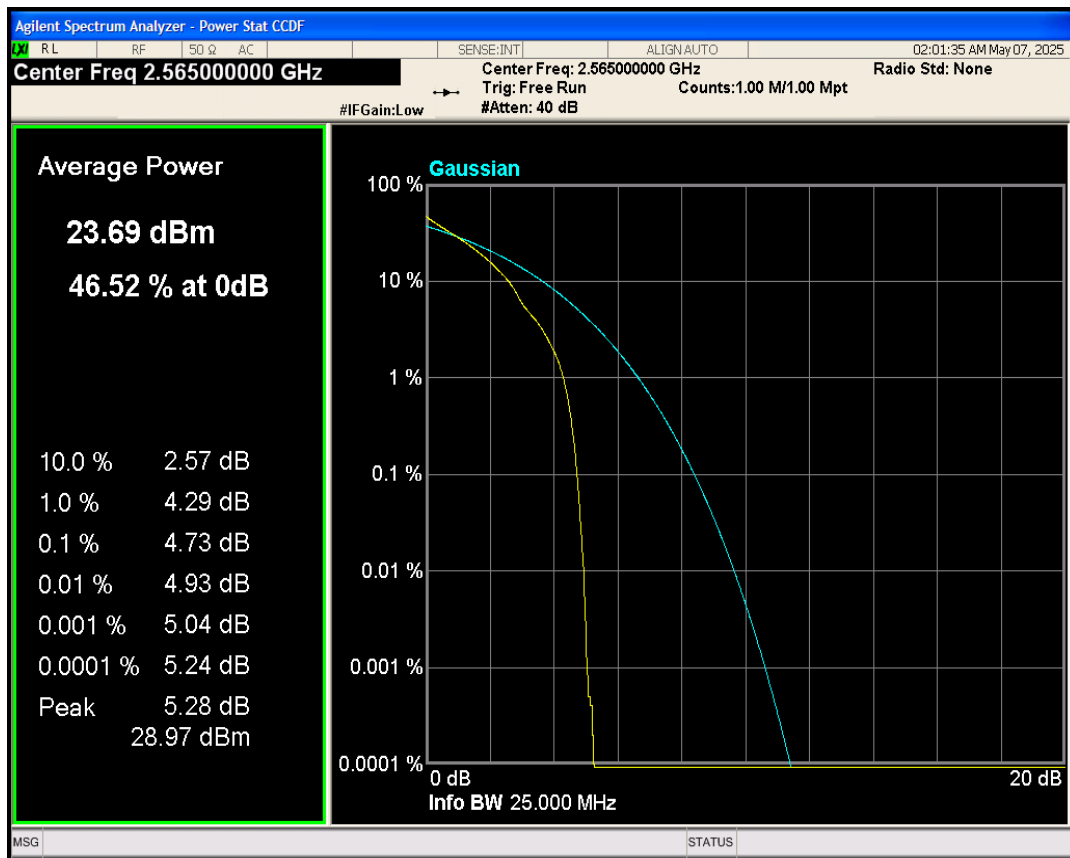


Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0

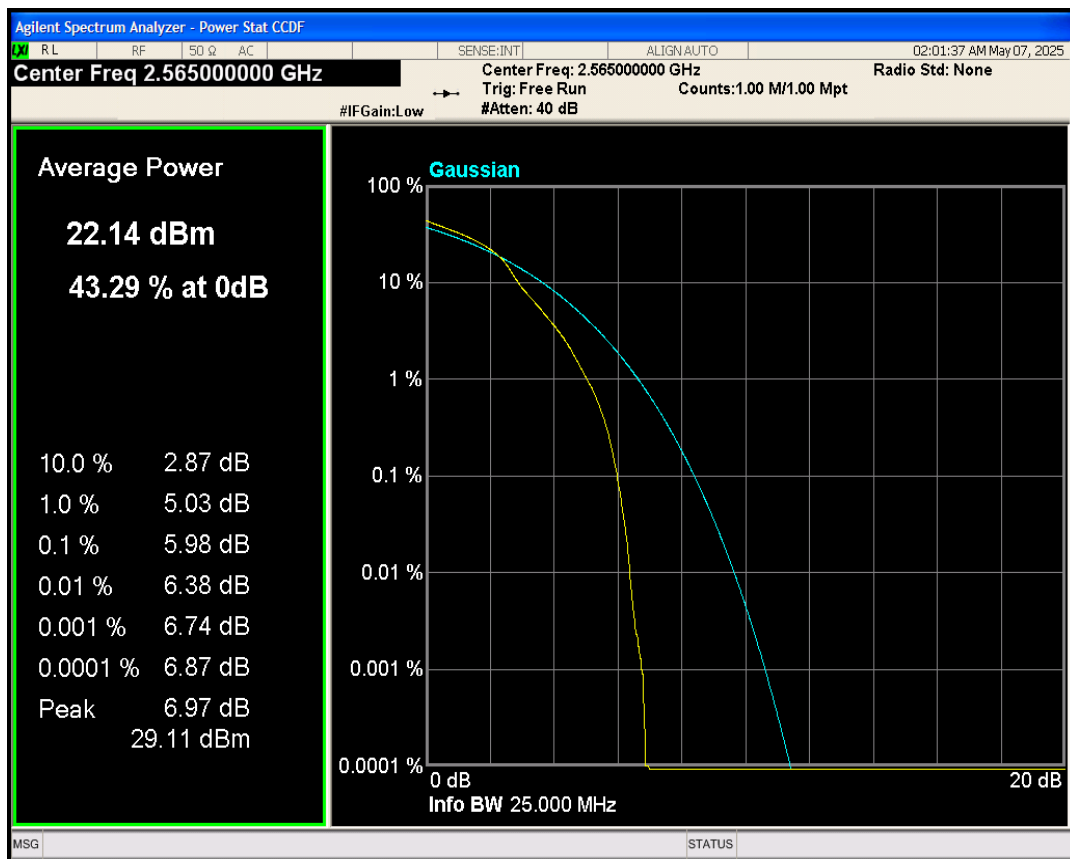




Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0

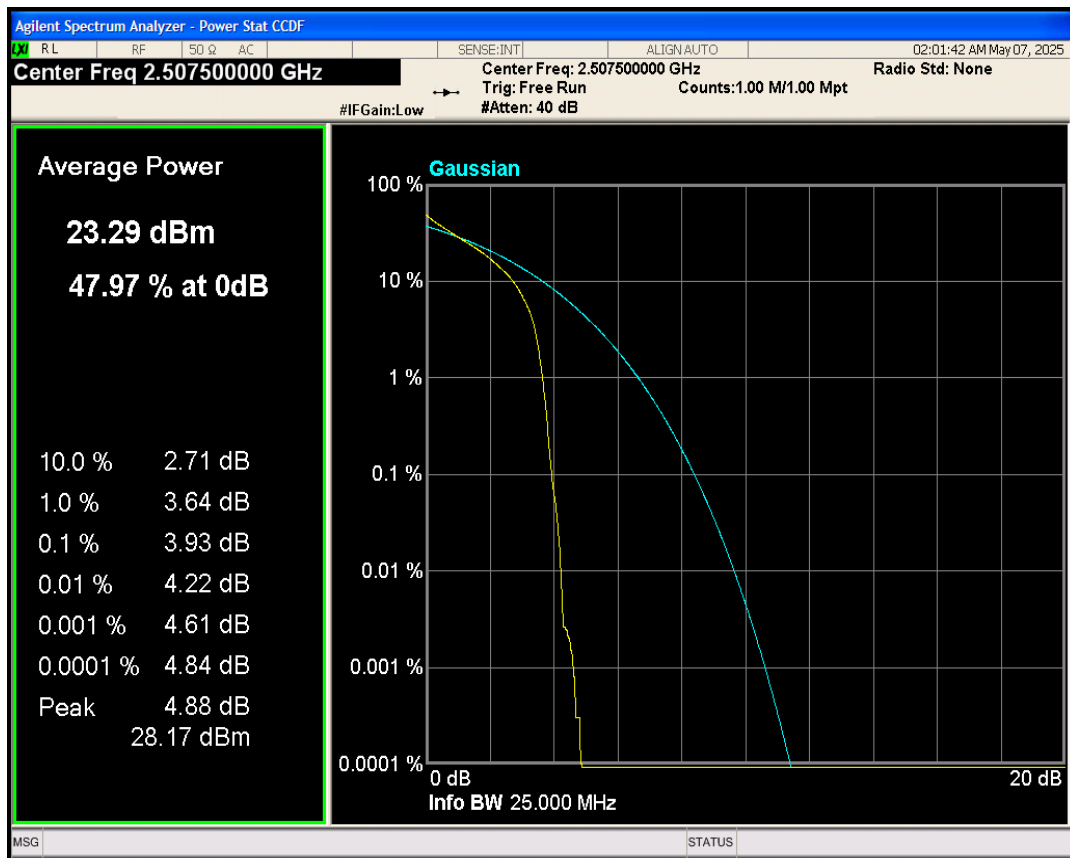


Band7 16QAM BW=10MHz Channel=21400 RB Size=1 Position=#0

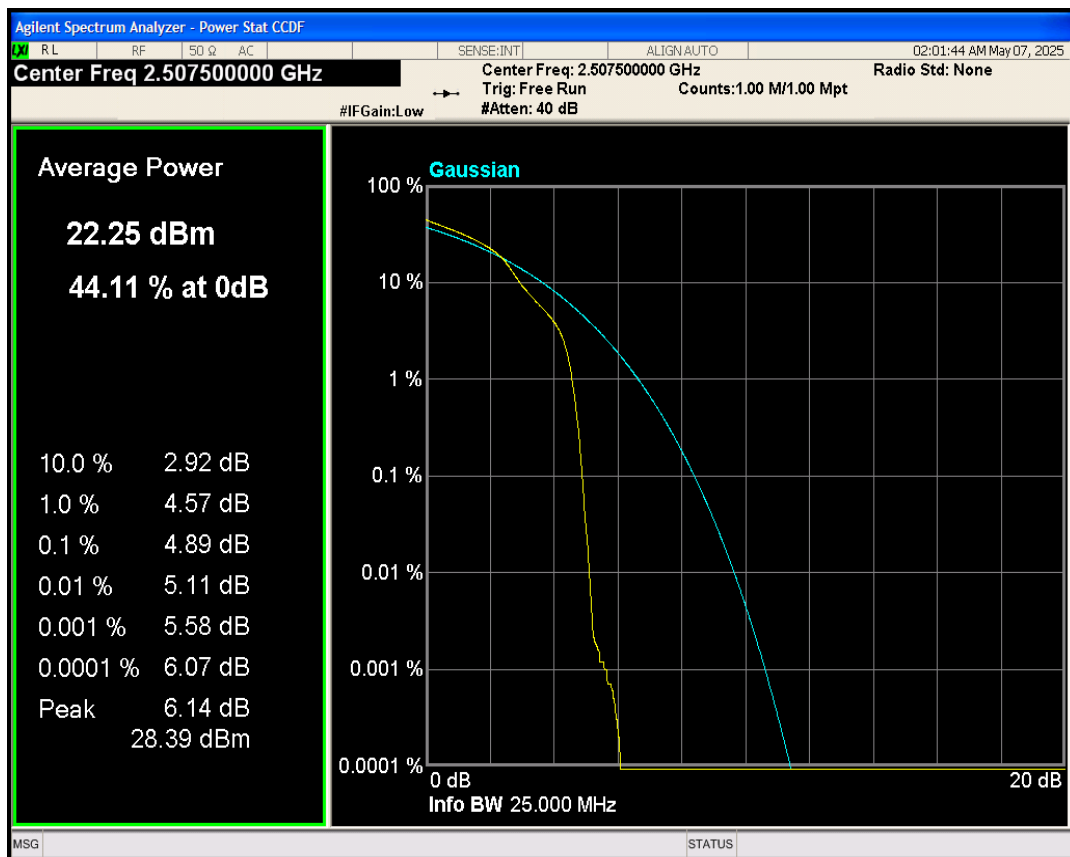




Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0

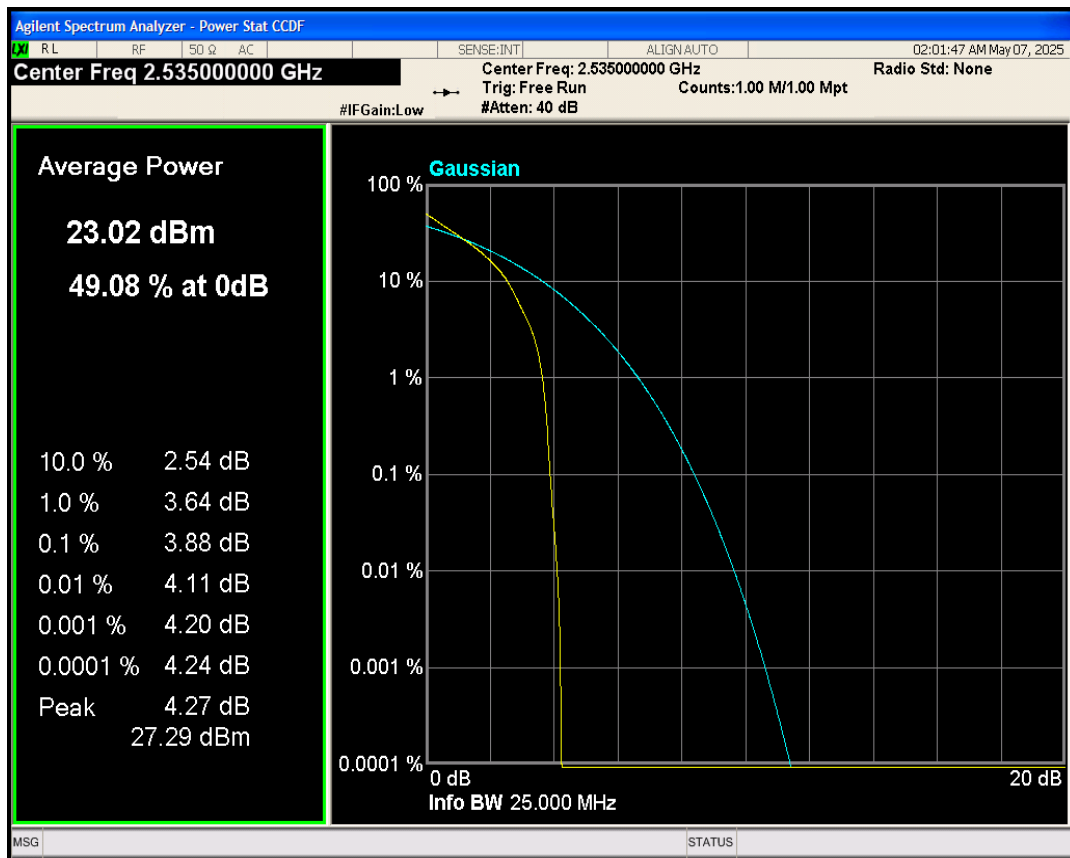


Band7 16QAM BW=15MHz Channel=20825 RB Size=1 Position=#0

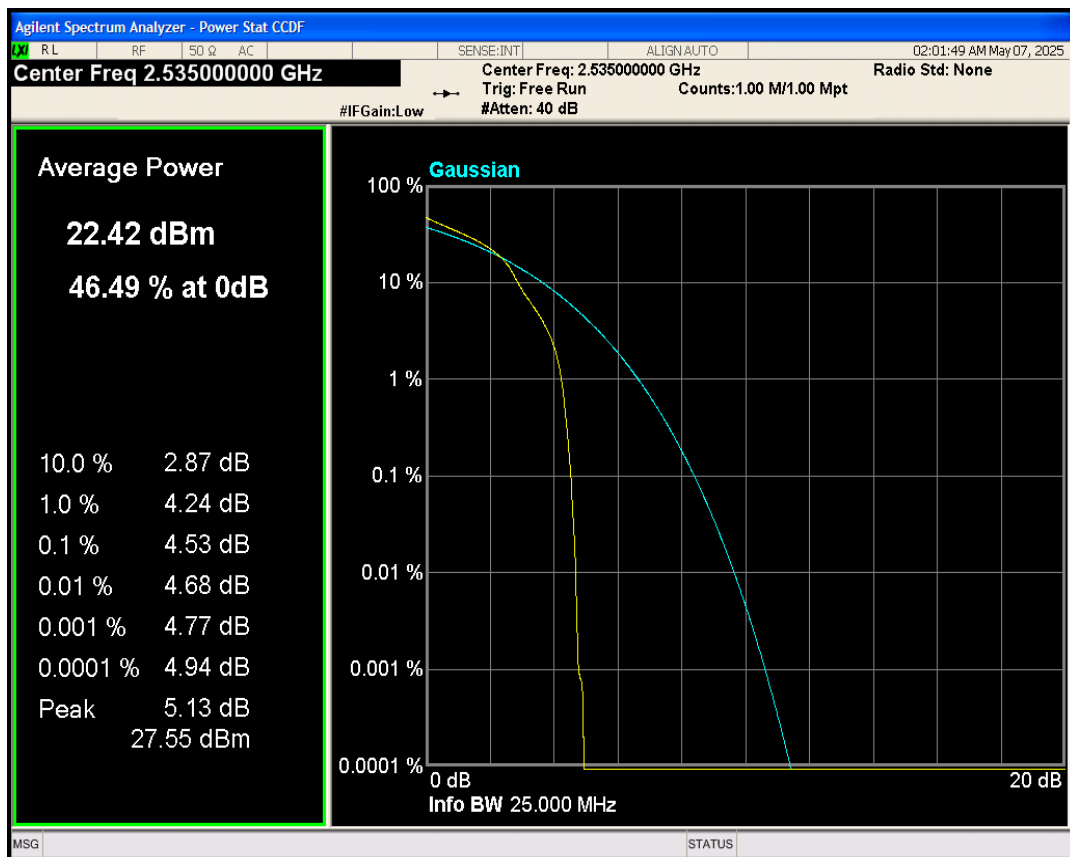




Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0

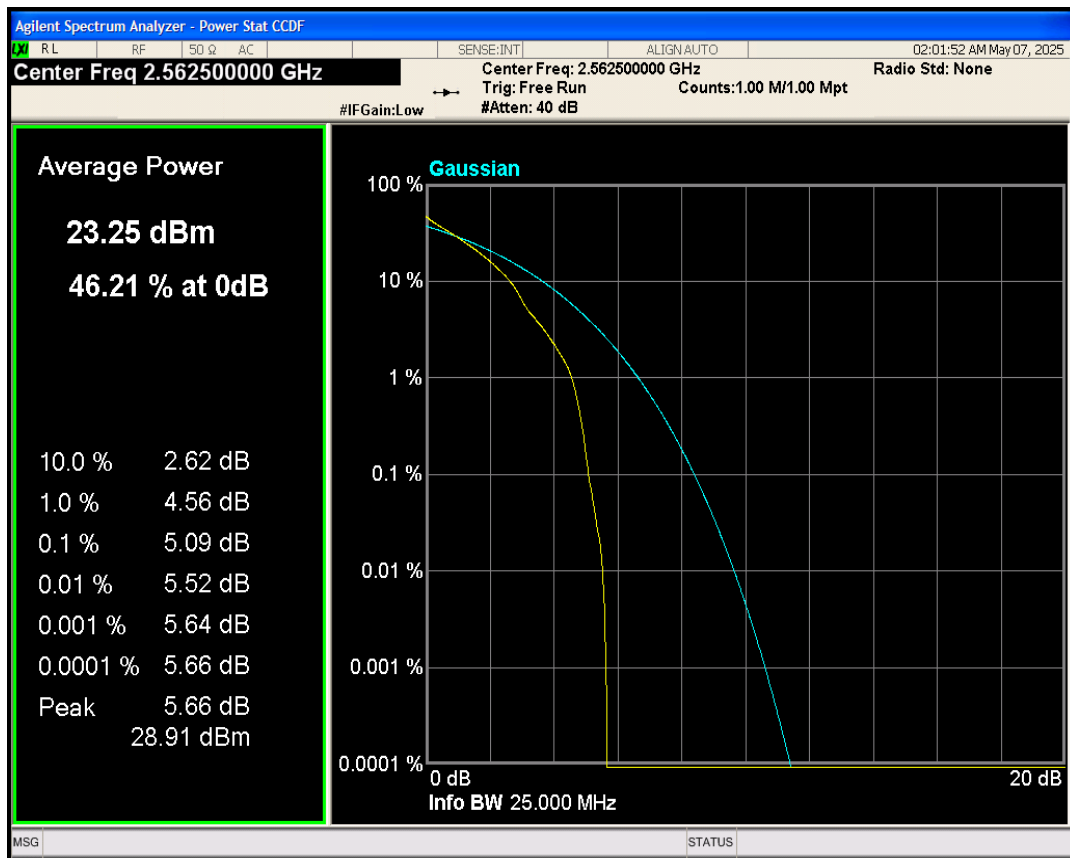


Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0

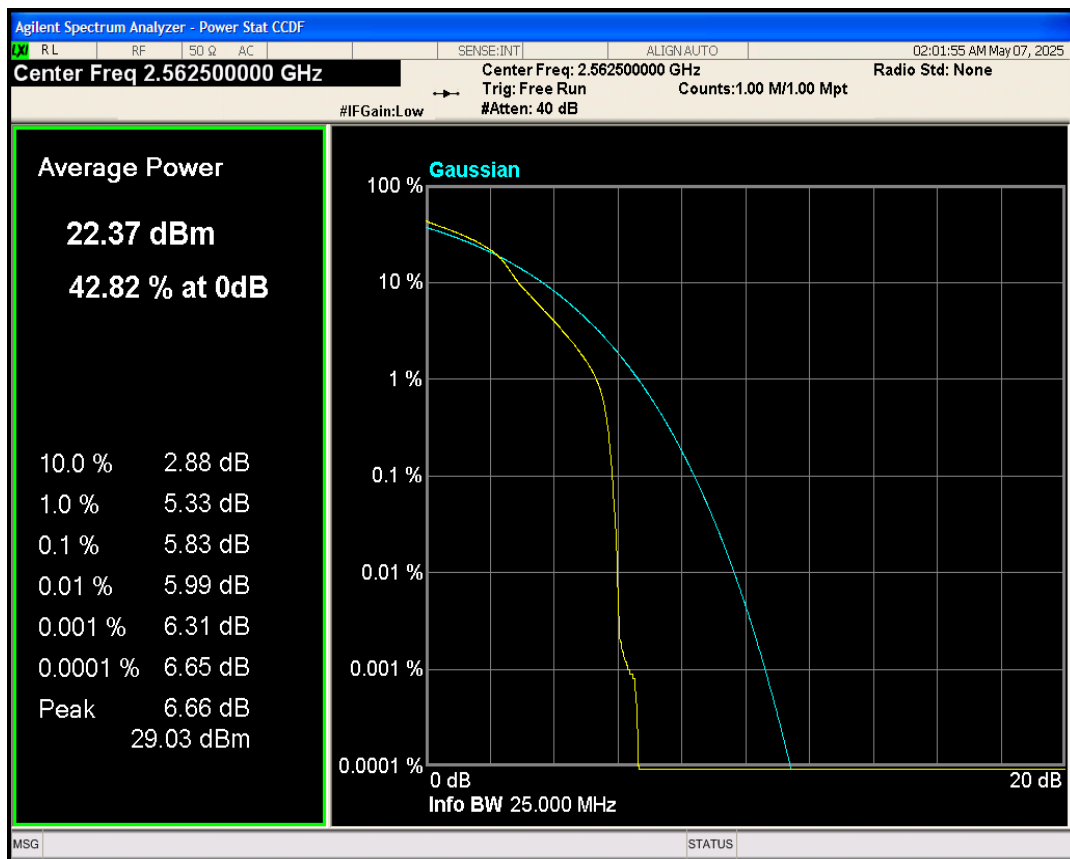




Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0

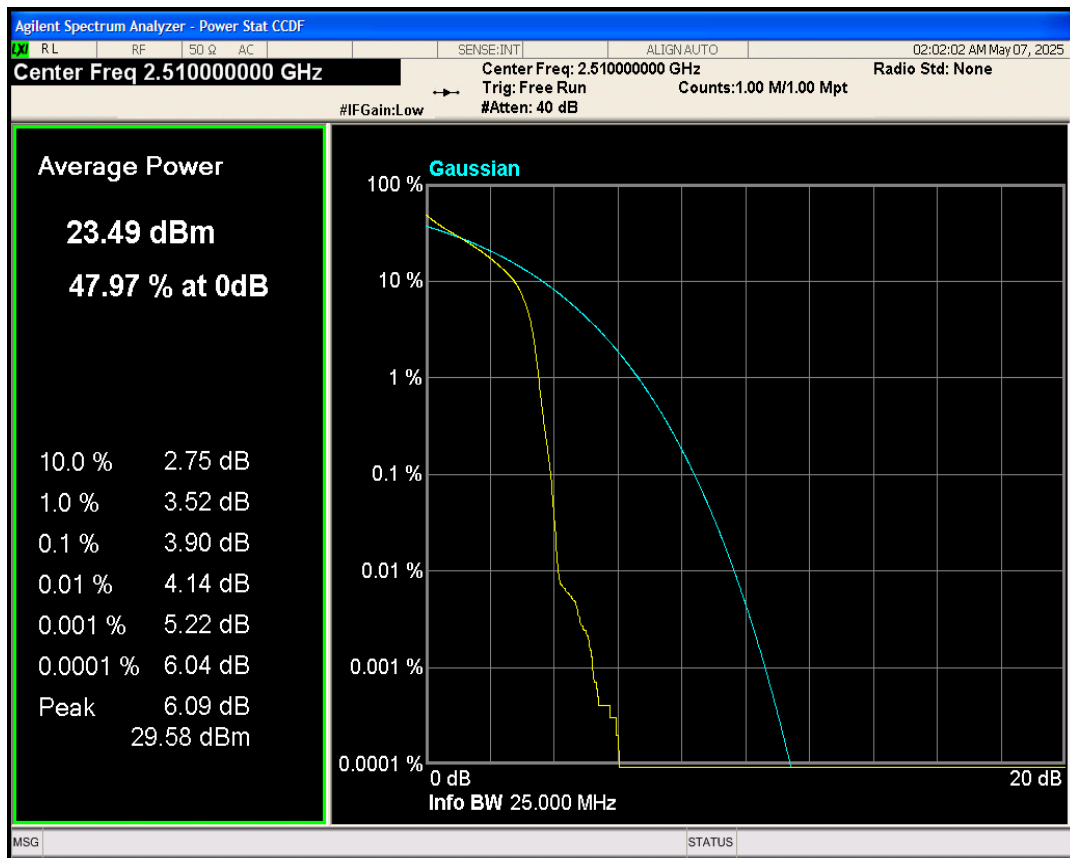


Band7 16QAM BW=15MHz Channel=21375 RB Size=1 Position=#0

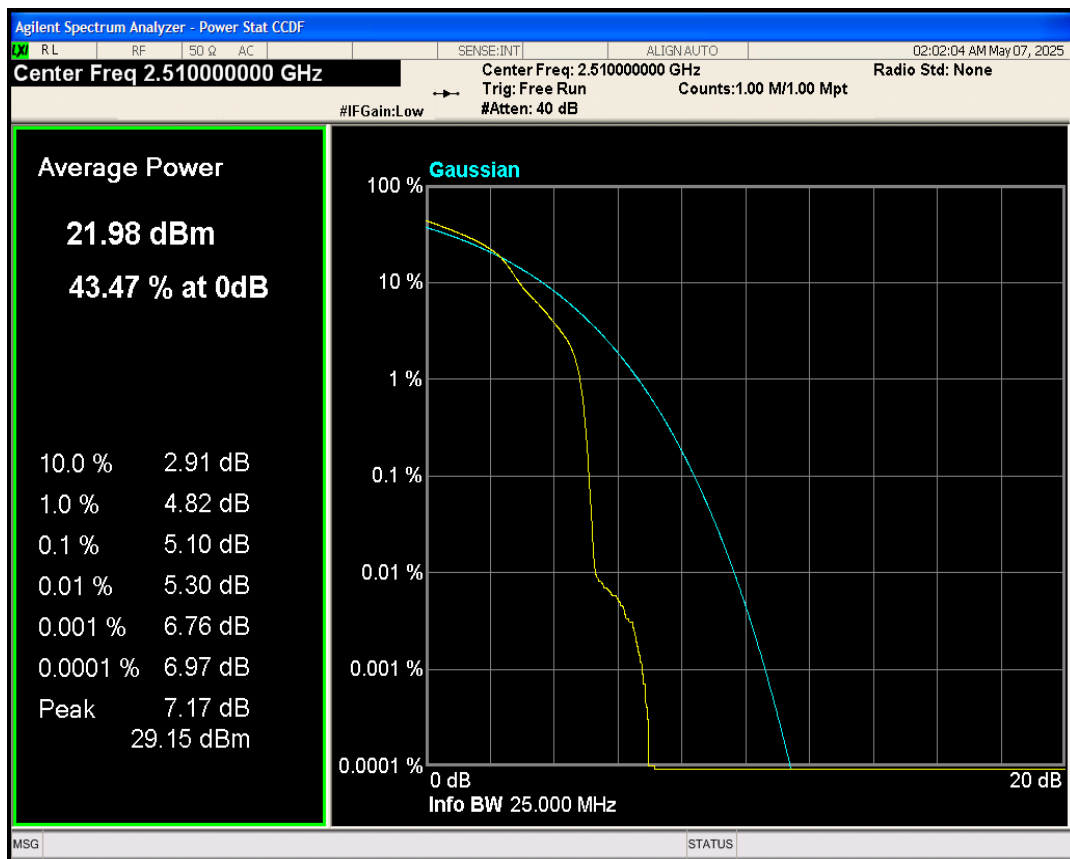




Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0

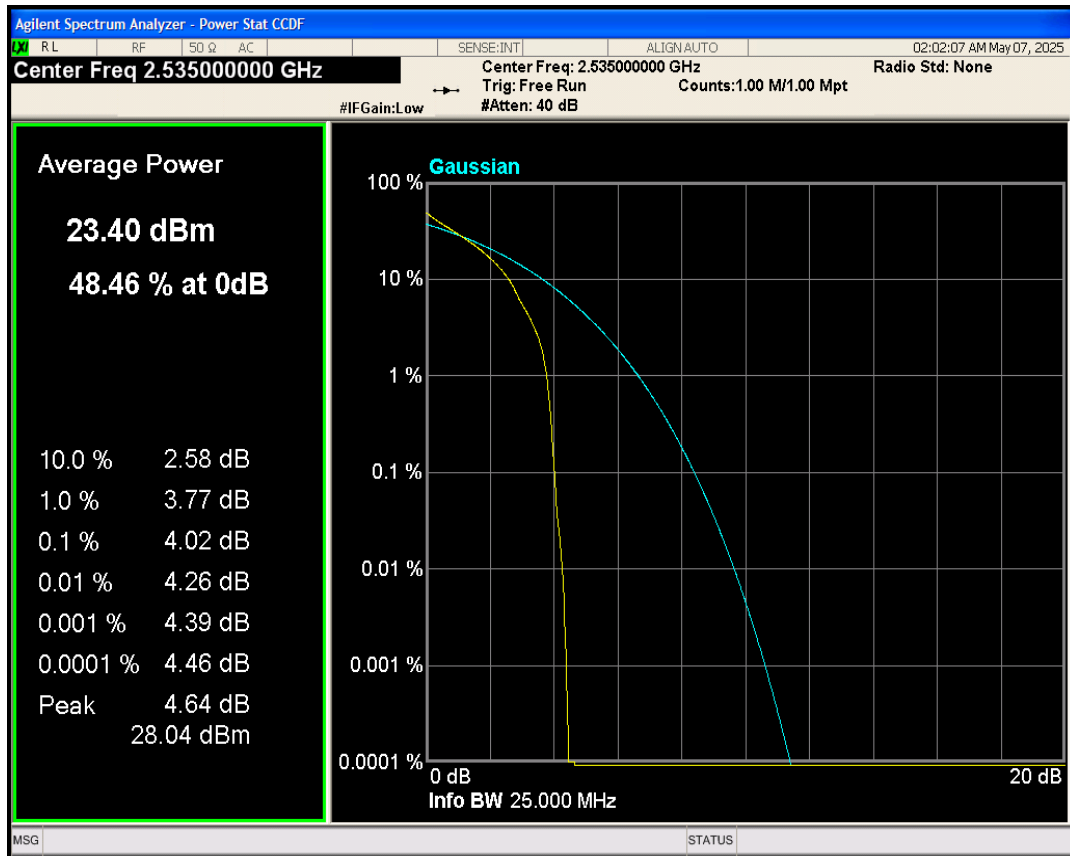


Band7 16QAM BW=20MHz Channel=20850 RB Size=1 Position=#0

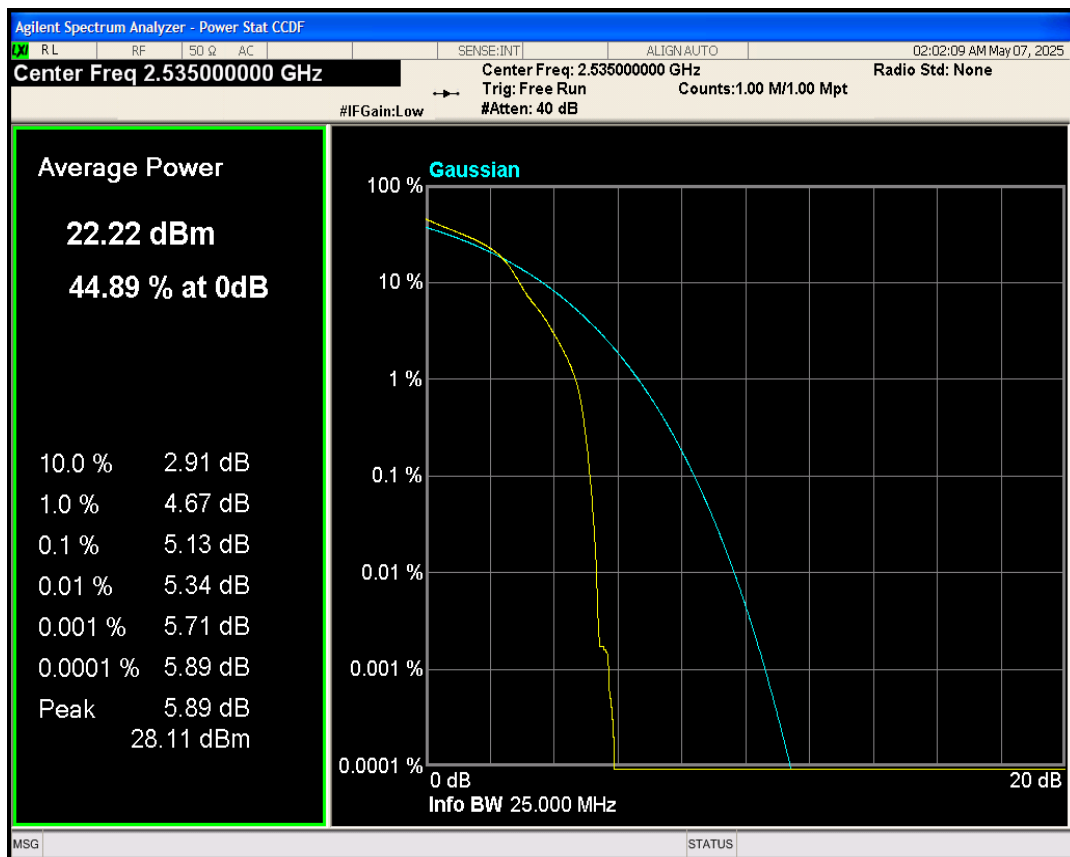




Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0

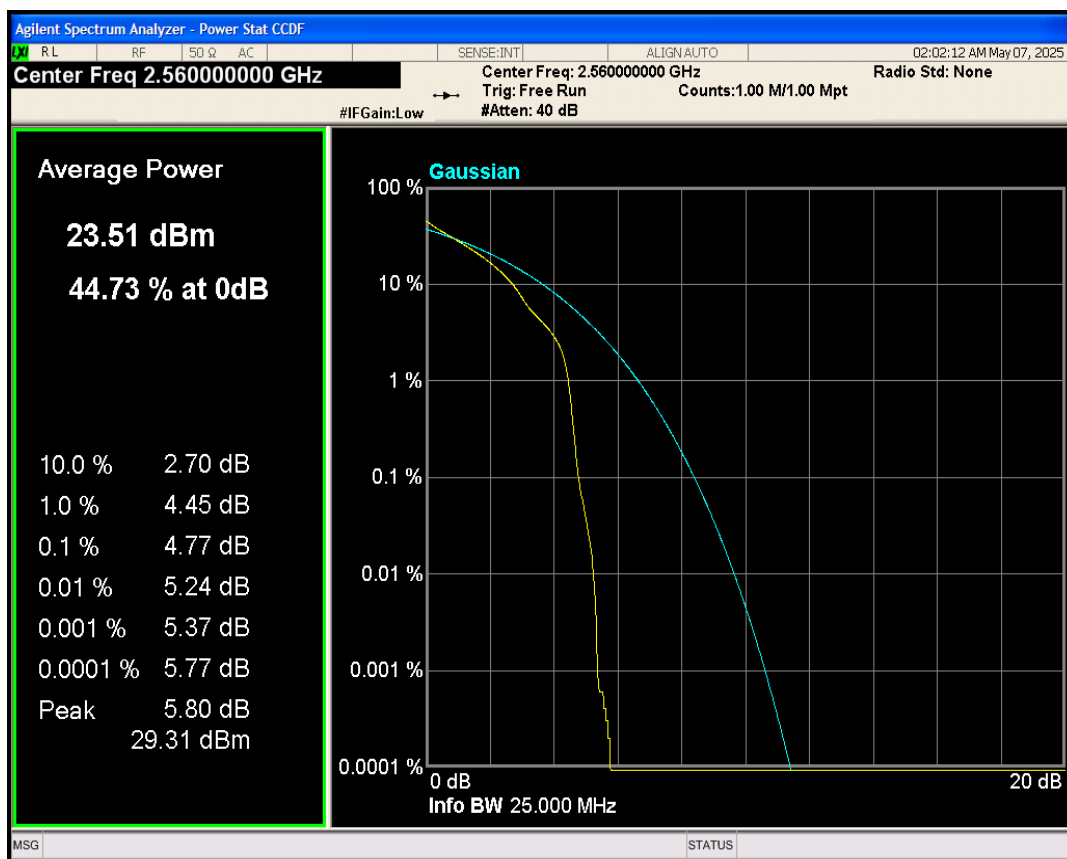


Band7 16QAM BW=20MHz Channel=21100 RB Size=1 Position=#0

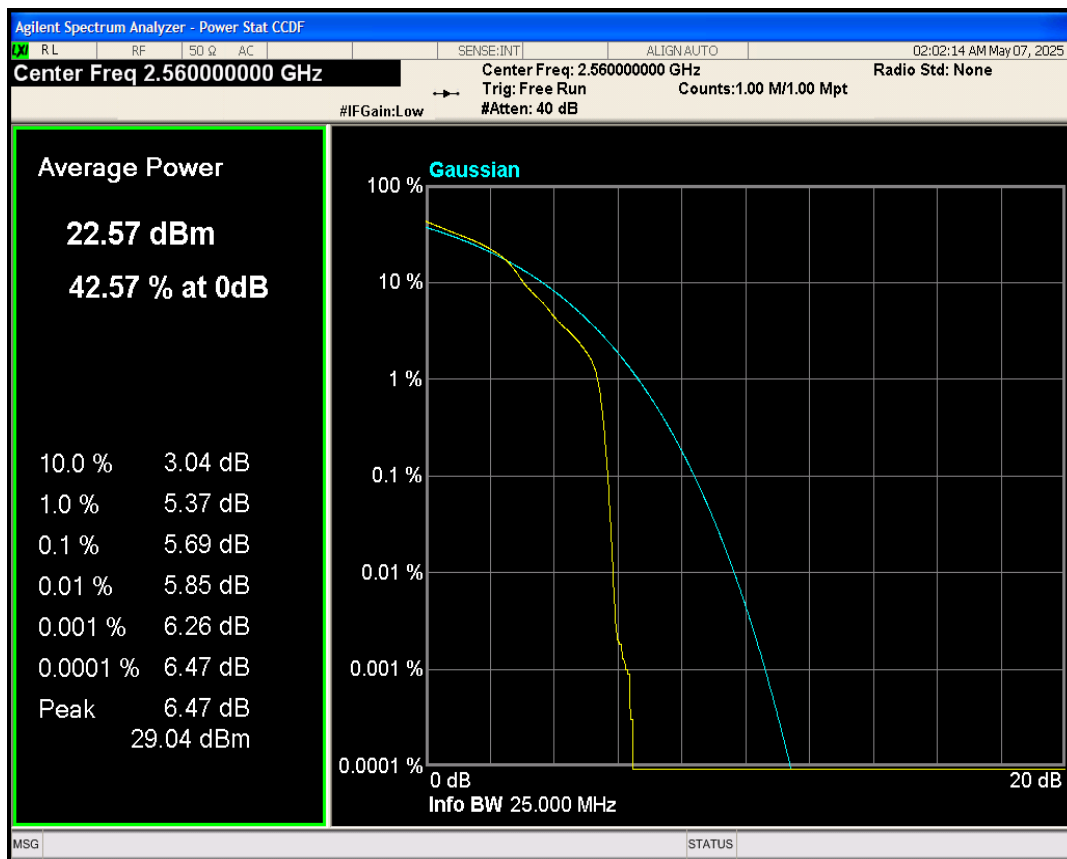




Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



Band7 16QAM BW=20MHz Channel=21350 RB Size=1 Position=#0

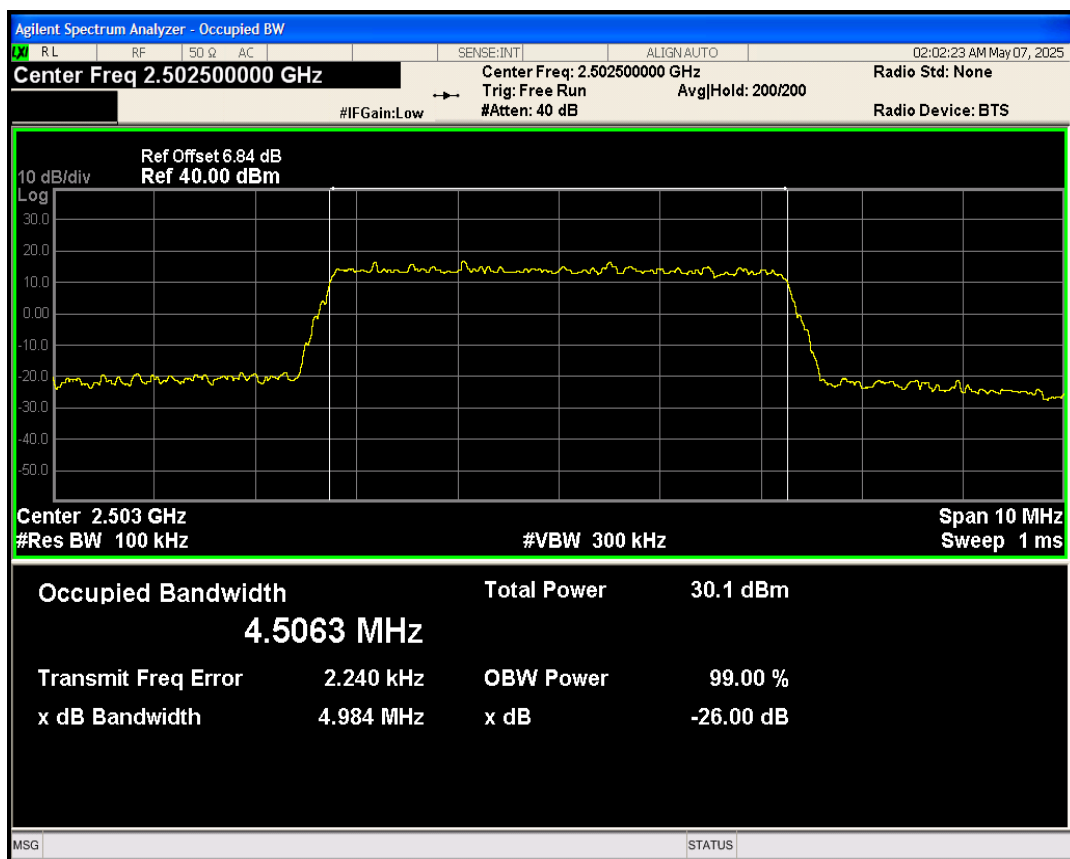


Appendix 4. Occupied bandwidth

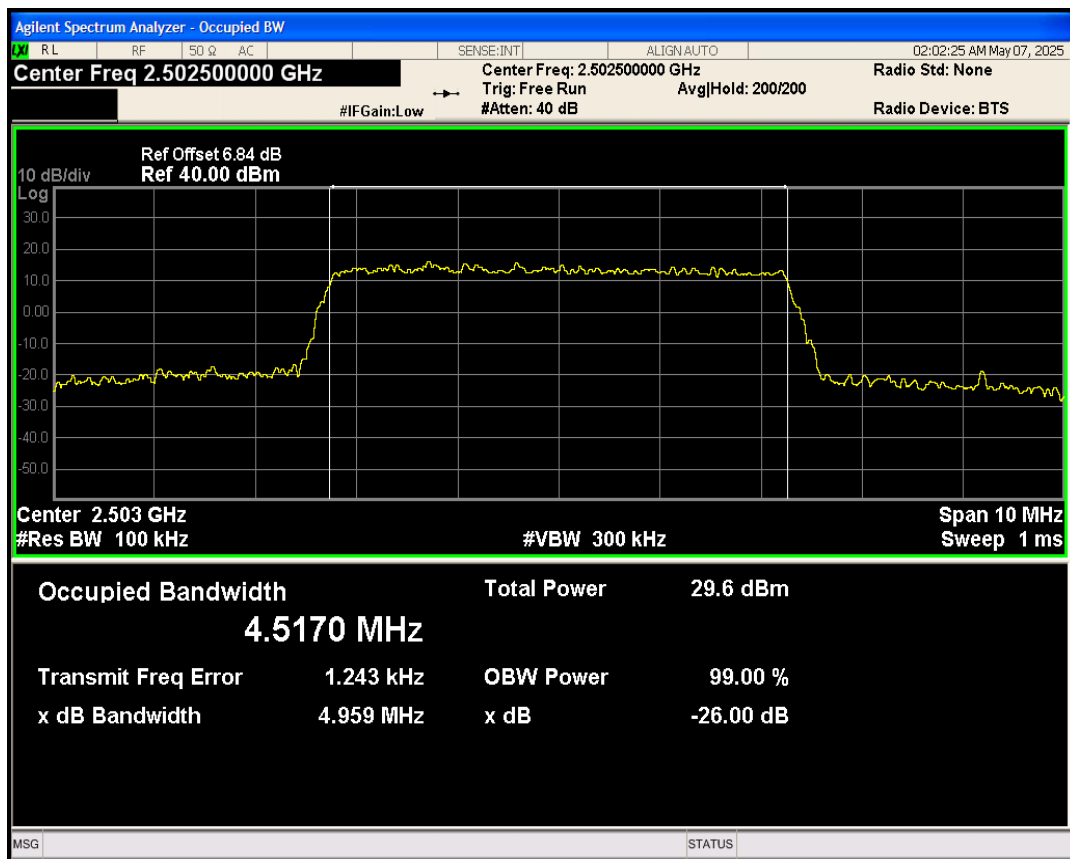
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QPSK	4.506	4.984	PASS
Band7	5	20775	25	#0	16QAM	4.517	4.959	PASS
Band7	5	21100	25	#0	QPSK	4.521	4.966	PASS
Band7	5	21100	25	#0	16QAM	4.544	4.963	PASS
Band7	5	21425	25	#0	QPSK	4.510	4.981	PASS
Band7	5	21425	25	#0	16QAM	4.526	5.000	PASS
Band7	10	20800	50	#0	QPSK	9.043	9.934	PASS
Band7	10	20800	50	#0	16QAM	9.015	9.862	PASS
Band7	10	21100	50	#0	QPSK	9.003	9.843	PASS
Band7	10	21100	50	#0	16QAM	8.994	9.749	PASS
Band7	10	21400	50	#0	QPSK	8.976	9.763	PASS
Band7	10	21400	50	#0	16QAM	8.963	9.913	PASS
Band7	15	20825	75	#0	QPSK	13.513	14.758	PASS
Band7	15	20825	75	#0	16QAM	13.488	14.830	PASS
Band7	15	21100	75	#0	QPSK	13.448	14.643	PASS
Band7	15	21100	75	#0	16QAM	13.473	14.688	PASS
Band7	15	21375	75	#0	QPSK	13.487	14.676	PASS
Band7	15	21375	75	#0	16QAM	13.470	14.784	PASS
Band7	20	20850	100	#0	QPSK	18.041	19.574	PASS
Band7	20	20850	100	#0	16QAM	18.026	19.570	PASS
Band7	20	21100	100	#0	QPSK	18.044	19.618	PASS
Band7	20	21100	100	#0	16QAM	18.018	19.682	PASS
Band7	20	21350	100	#0	QPSK	18.001	19.489	PASS
Band7	20	21350	100	#0	16QAM	17.992	19.778	PASS



Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

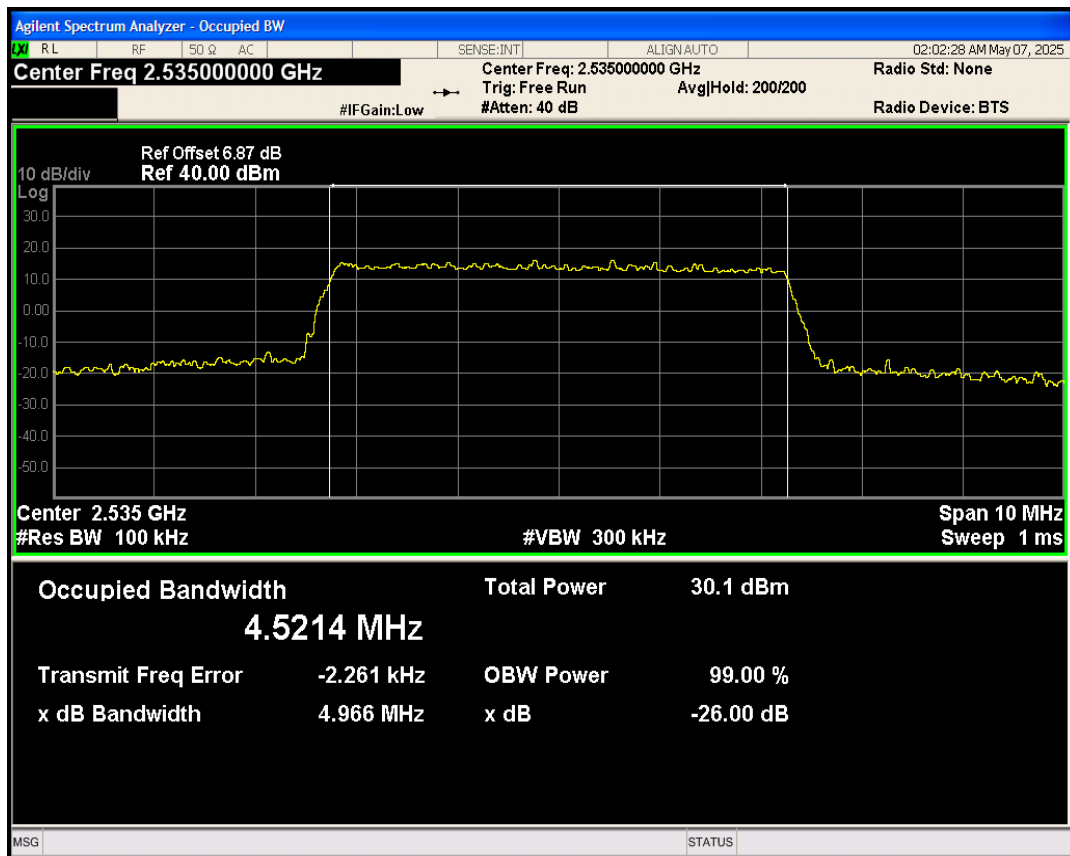


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0

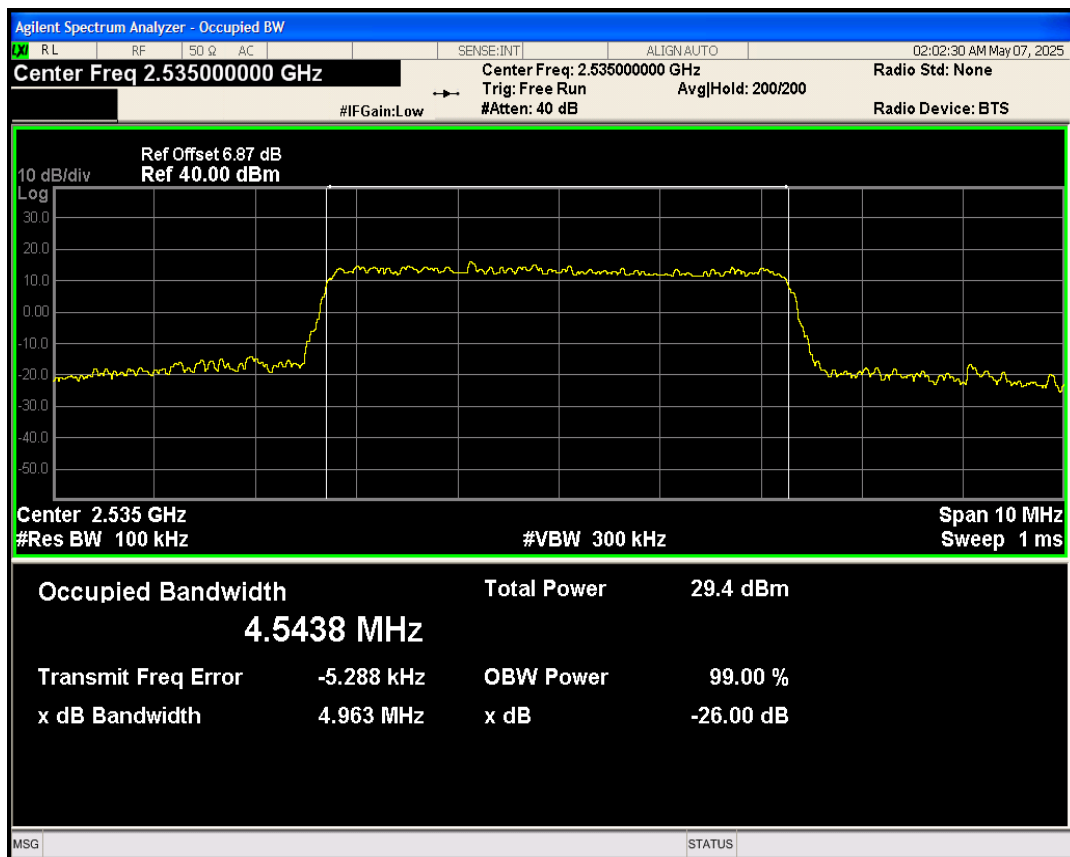




Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0

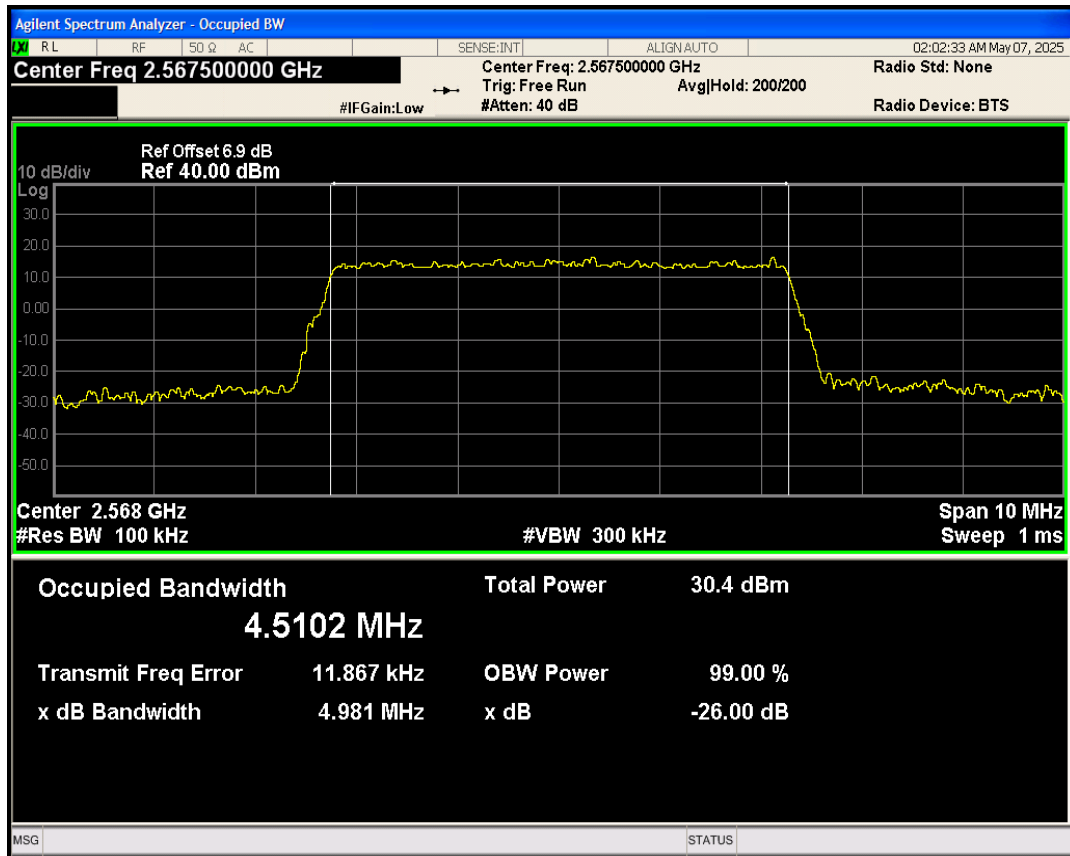


Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0

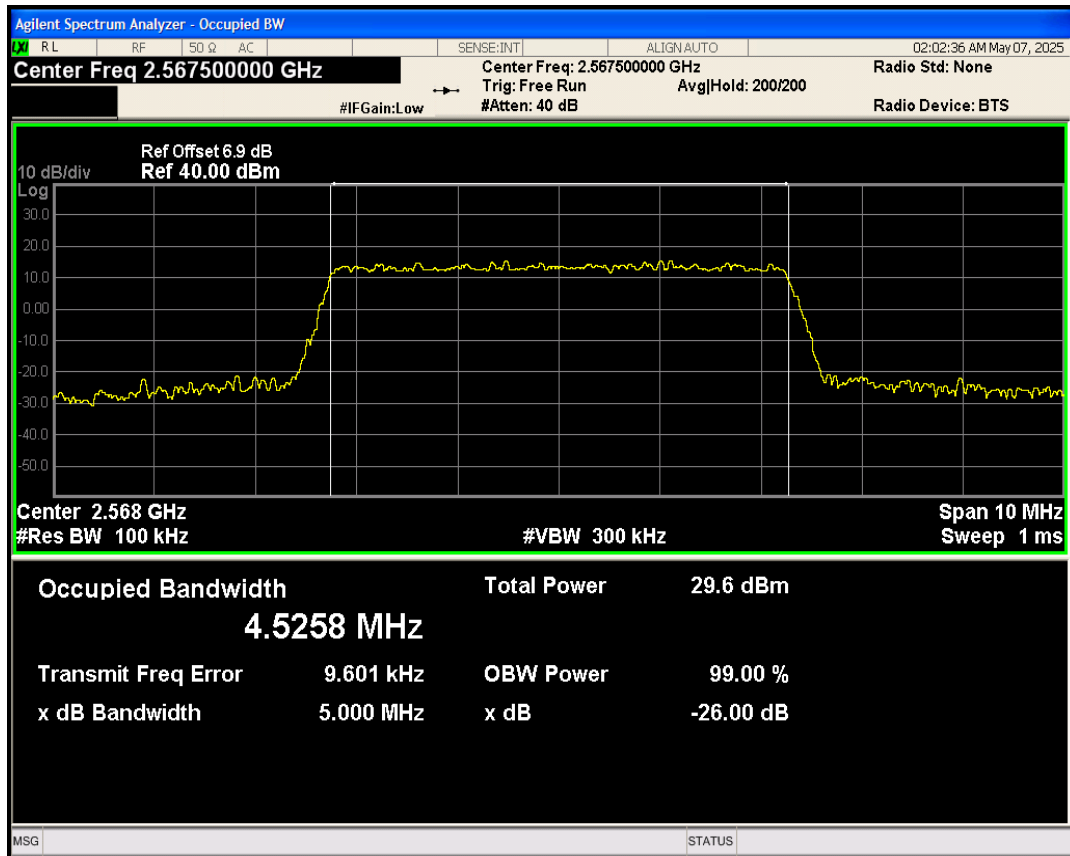




Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

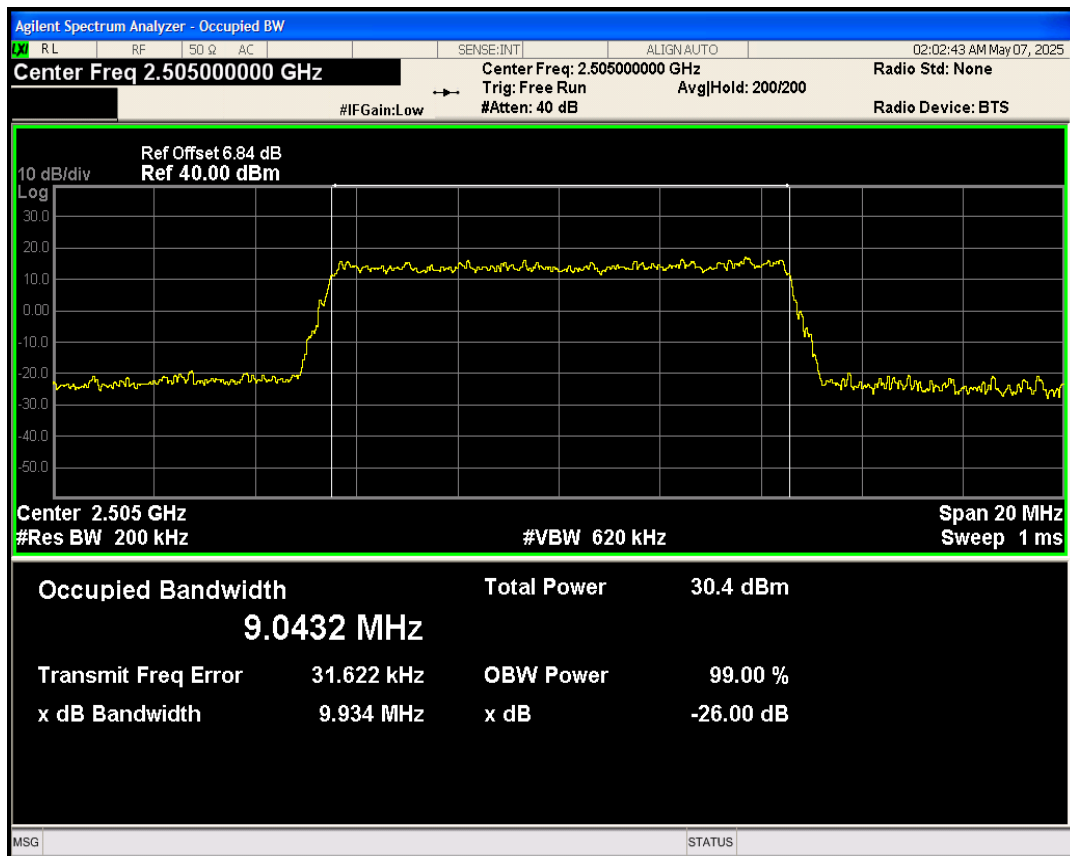


Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

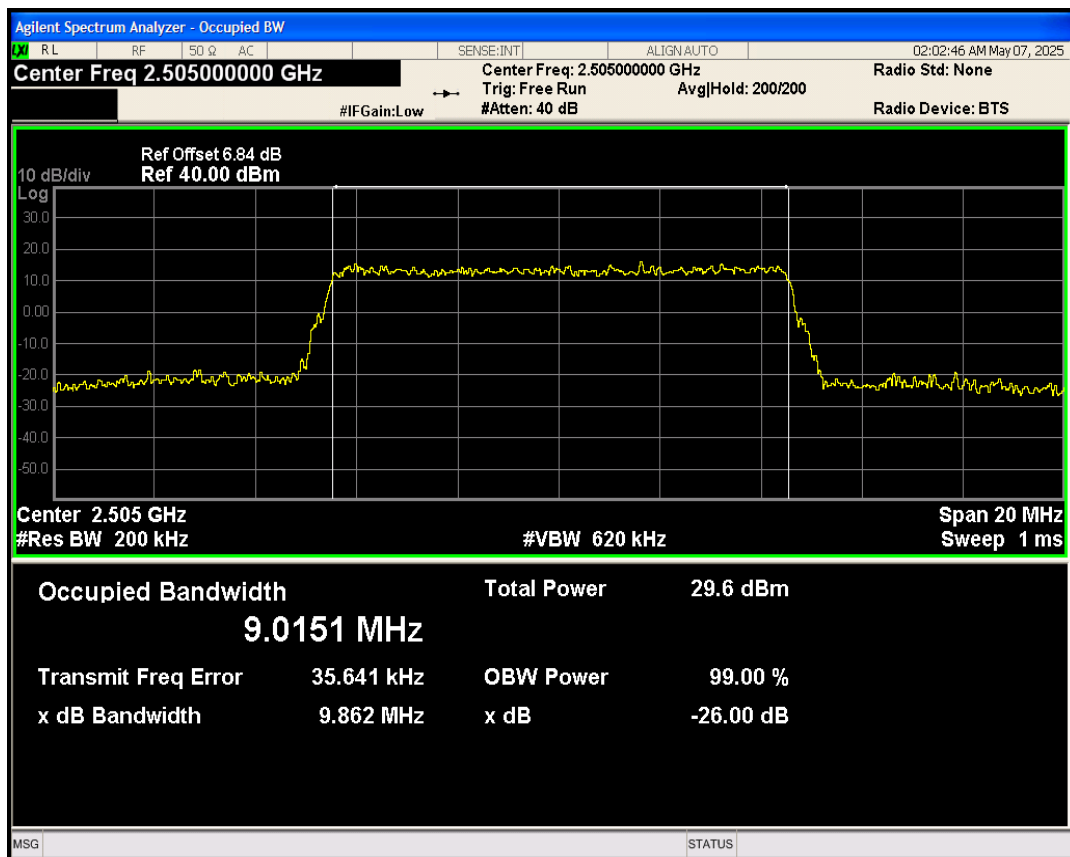




Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

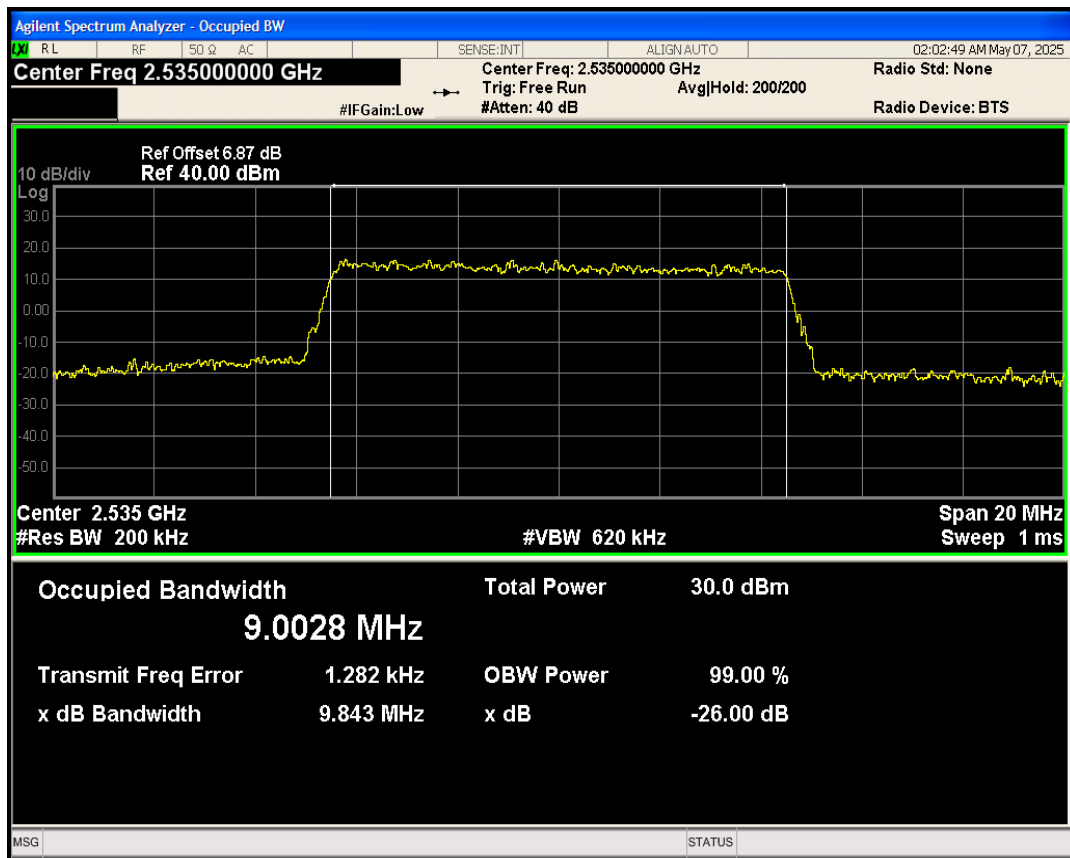


Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0

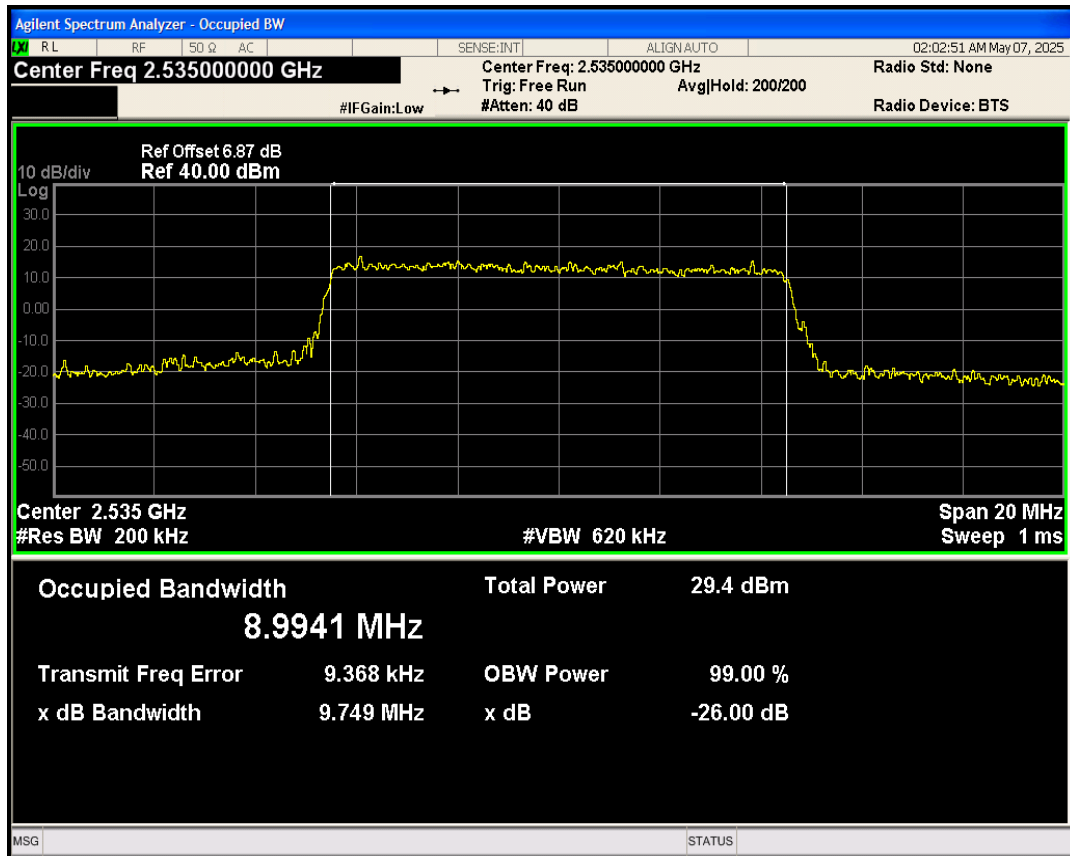




Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0

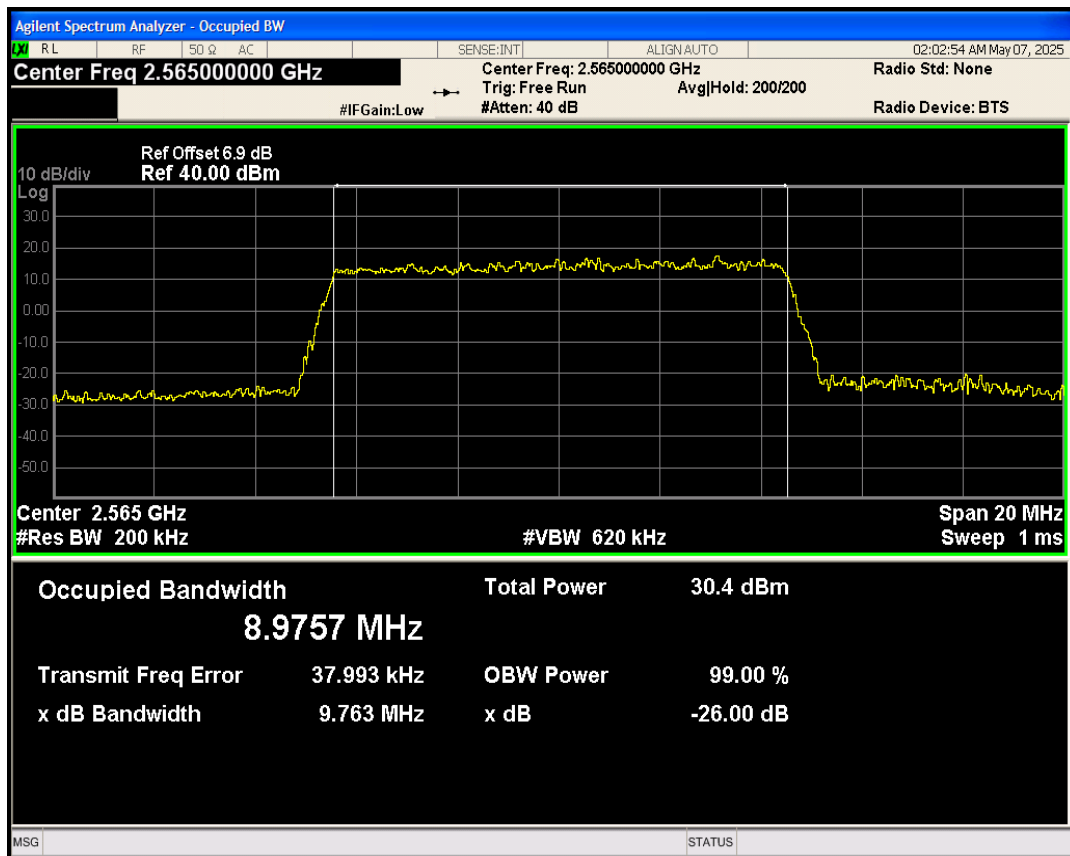


Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0

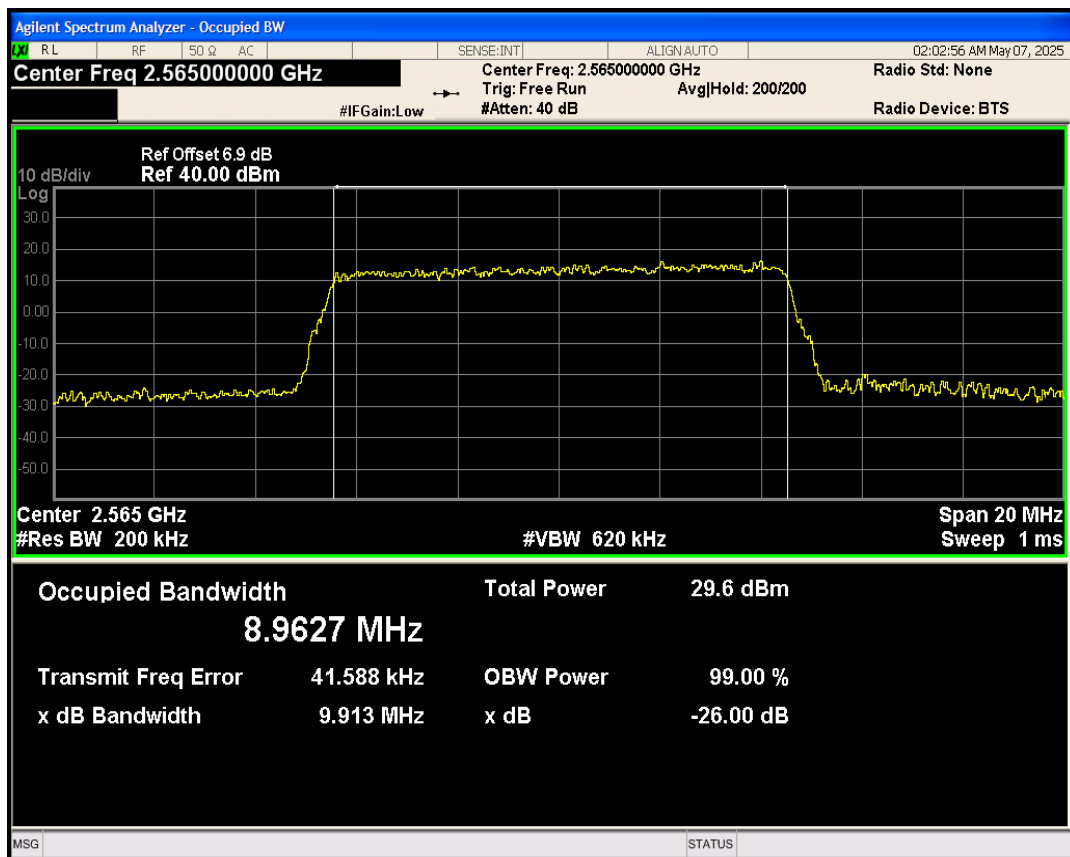




Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

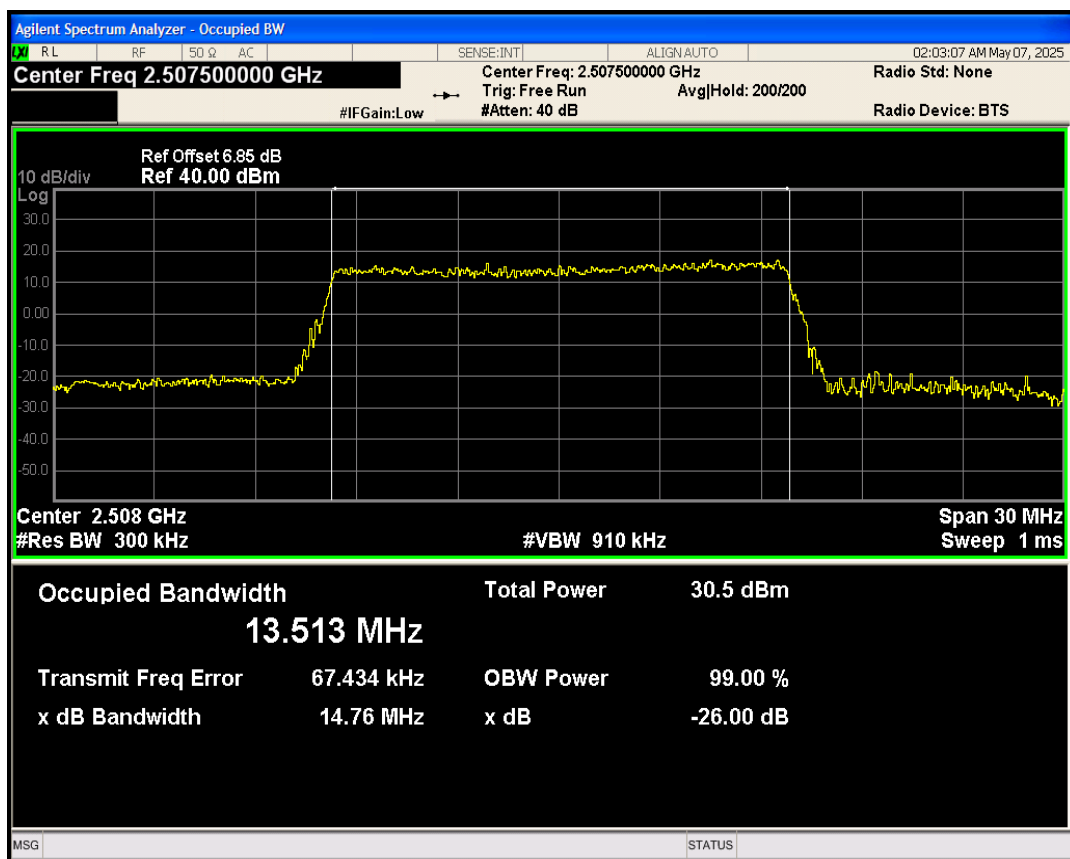


Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0

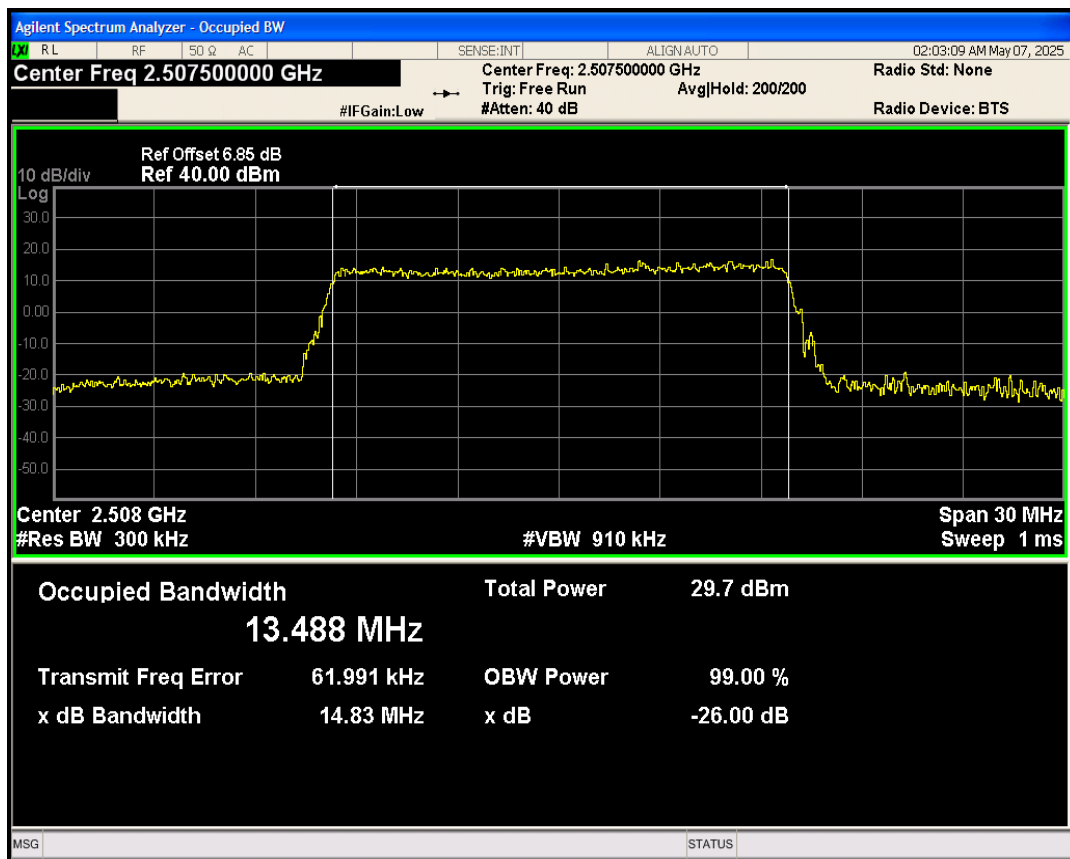




Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

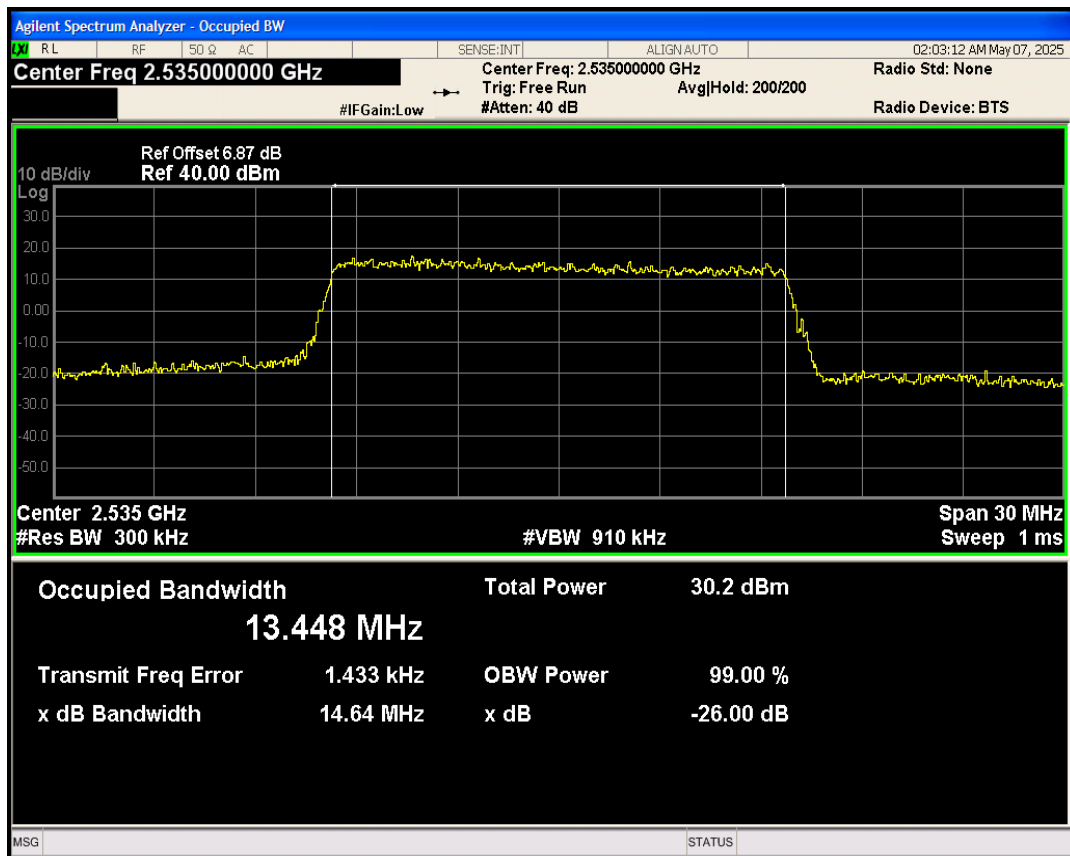


Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0

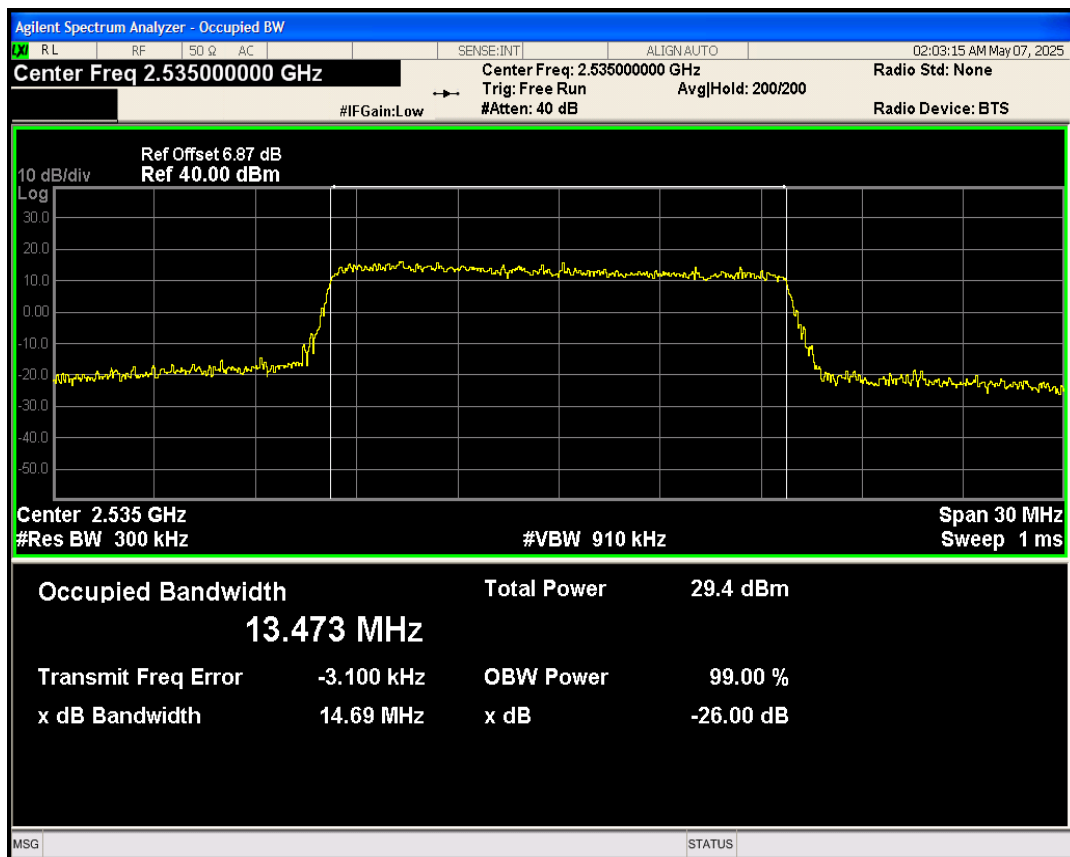




Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0

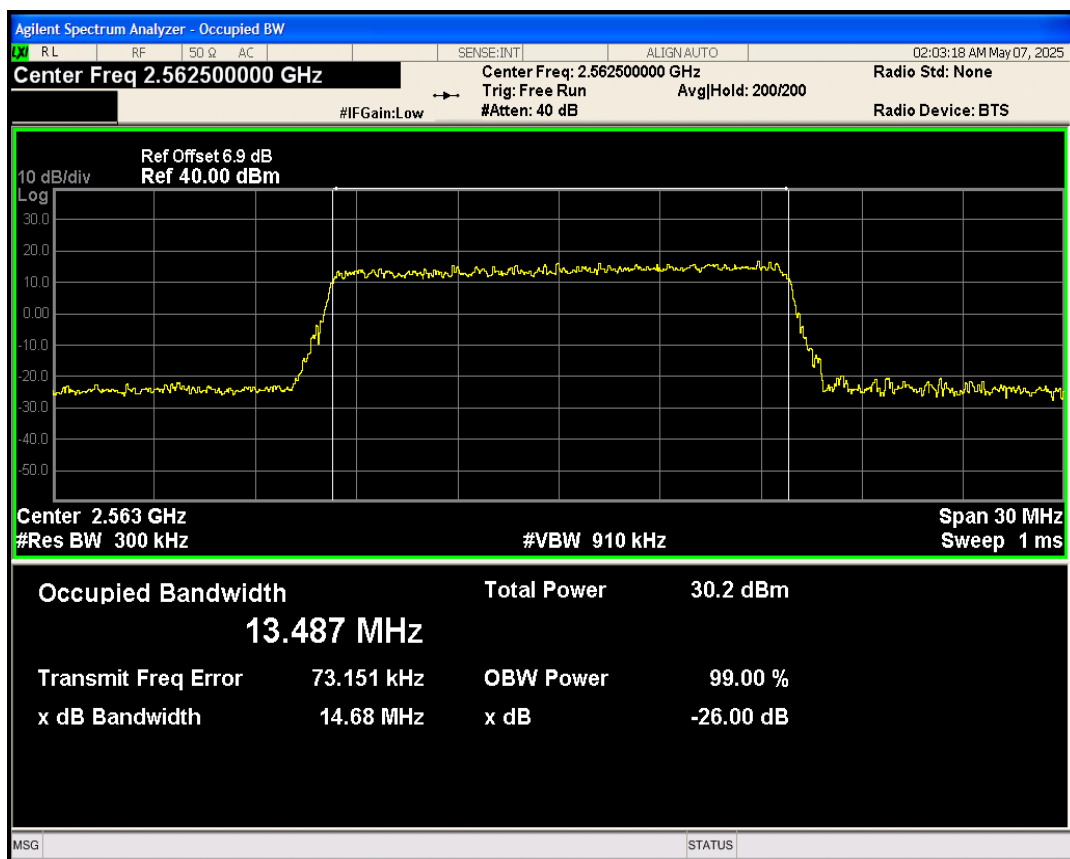


Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0

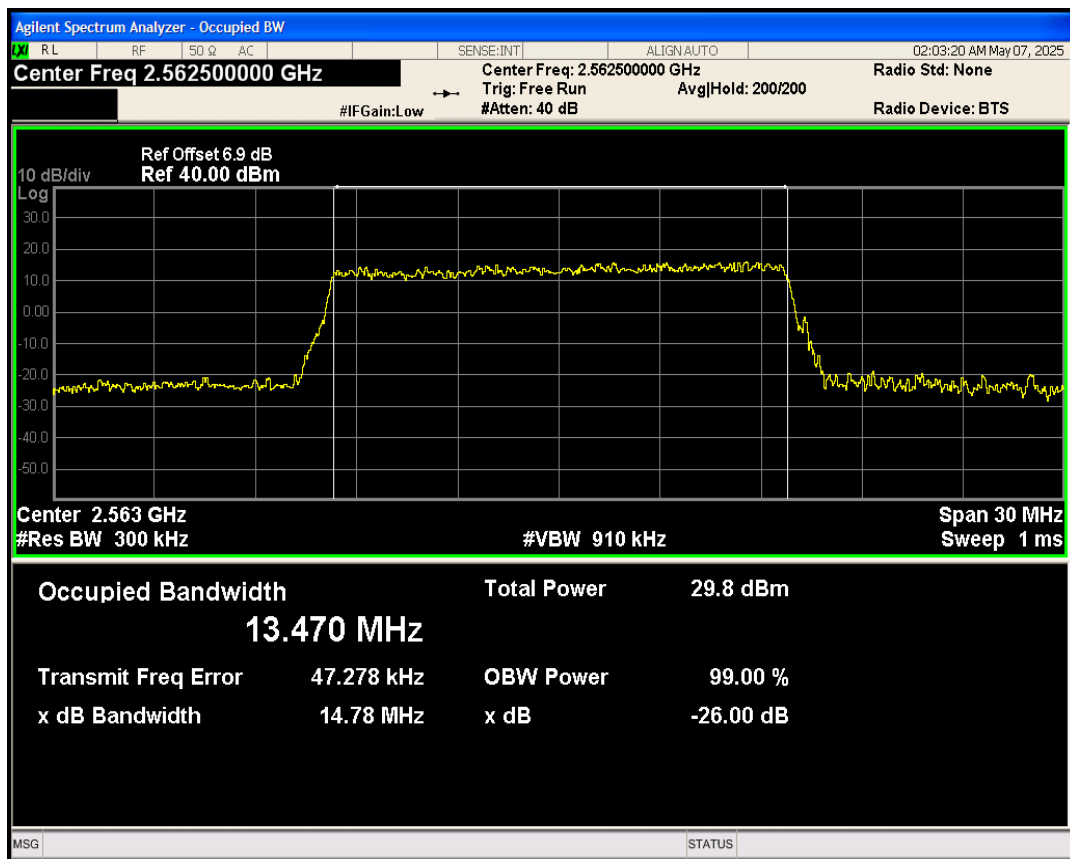




Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

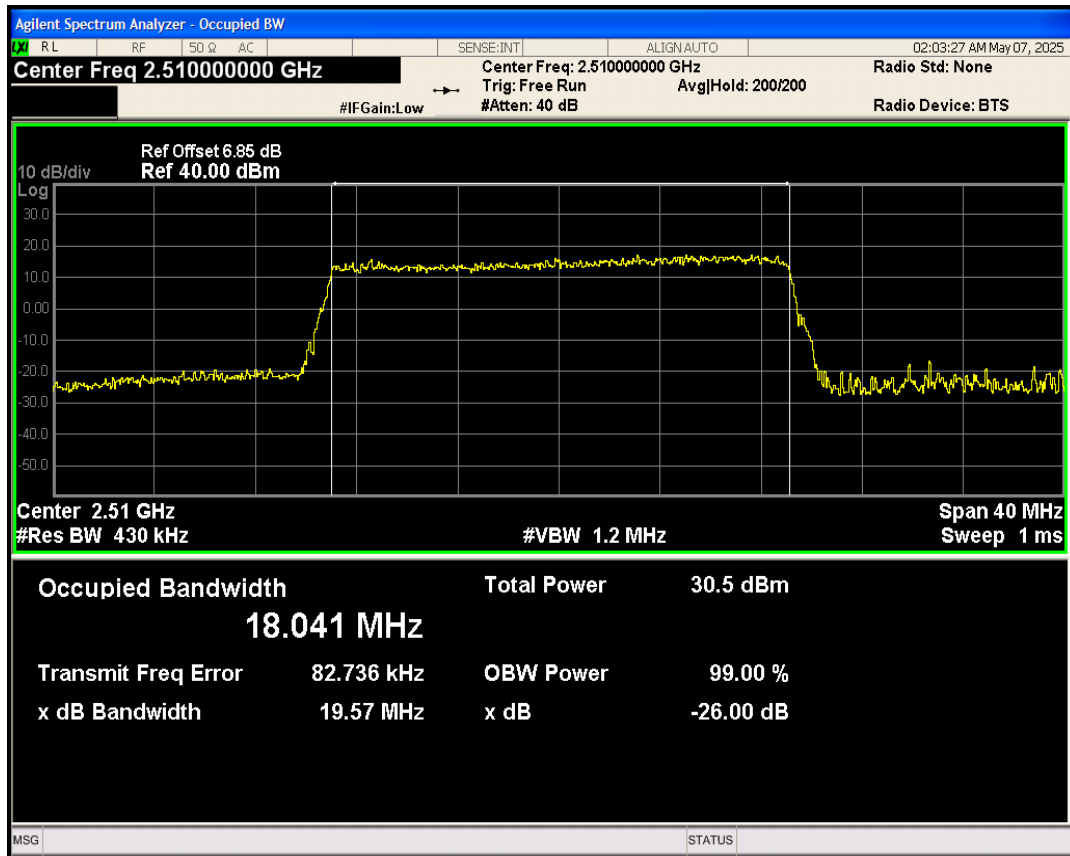


Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0

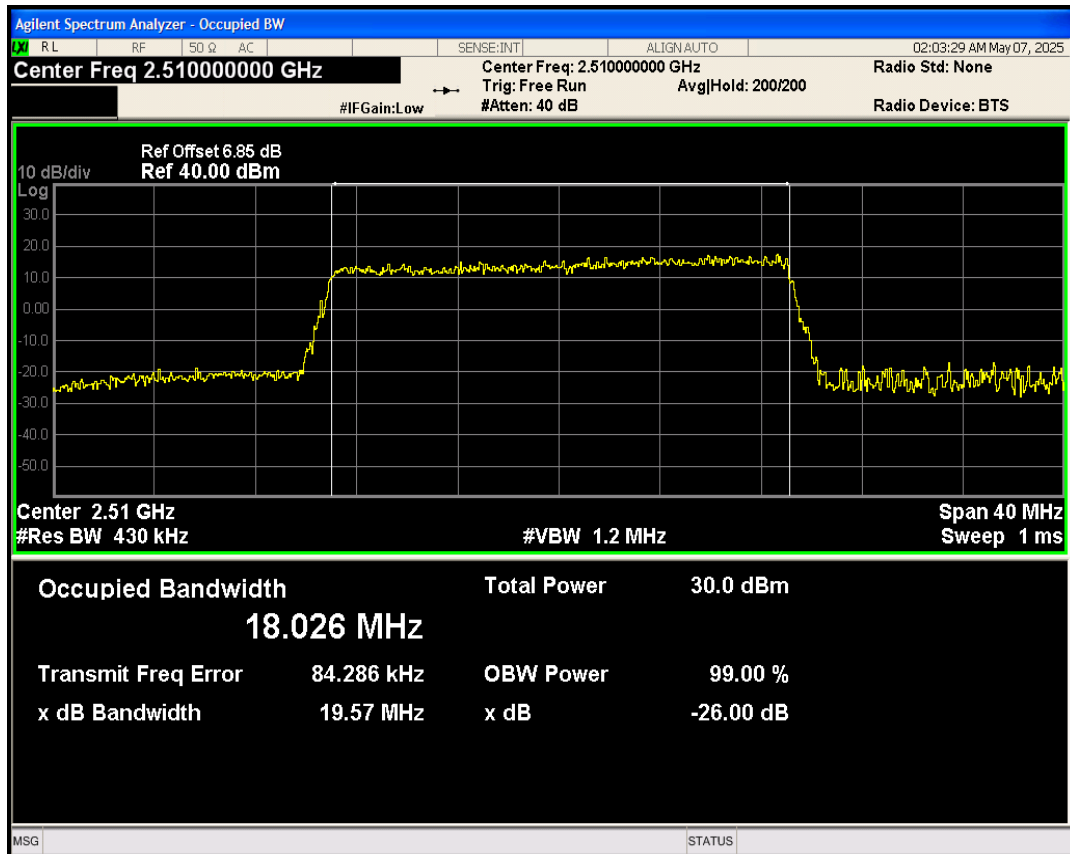




Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0

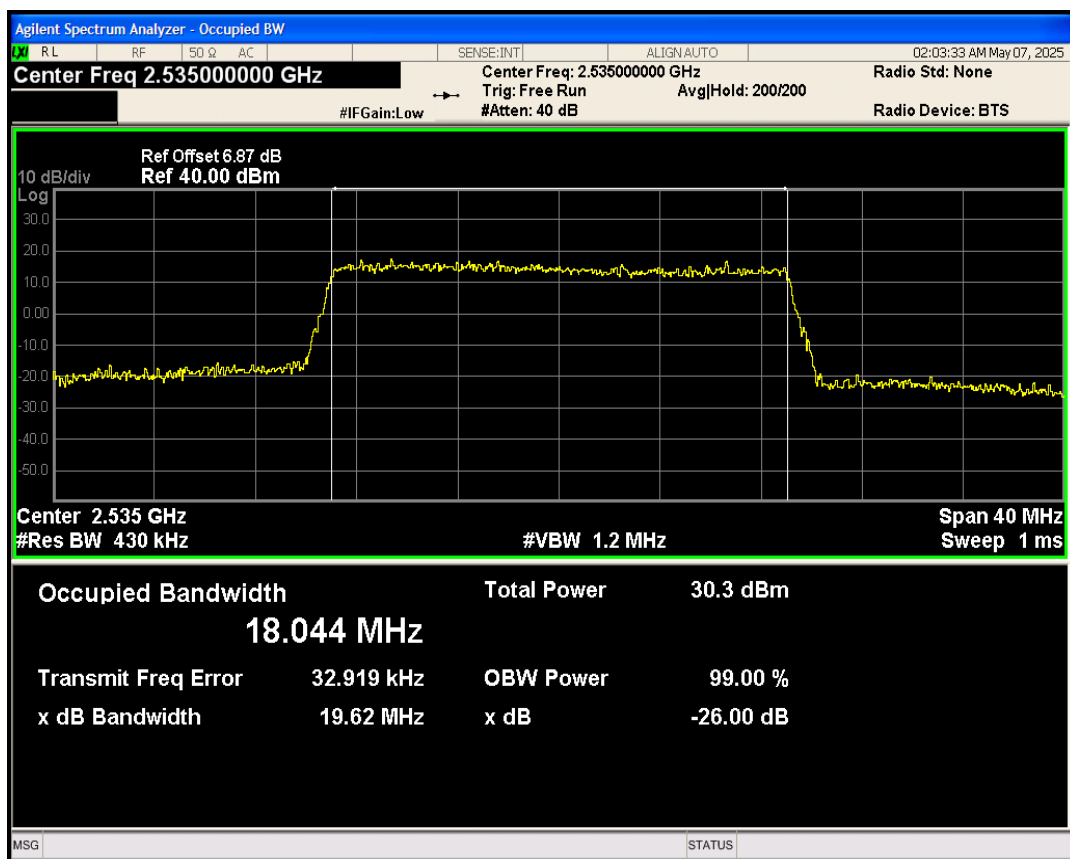


Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0

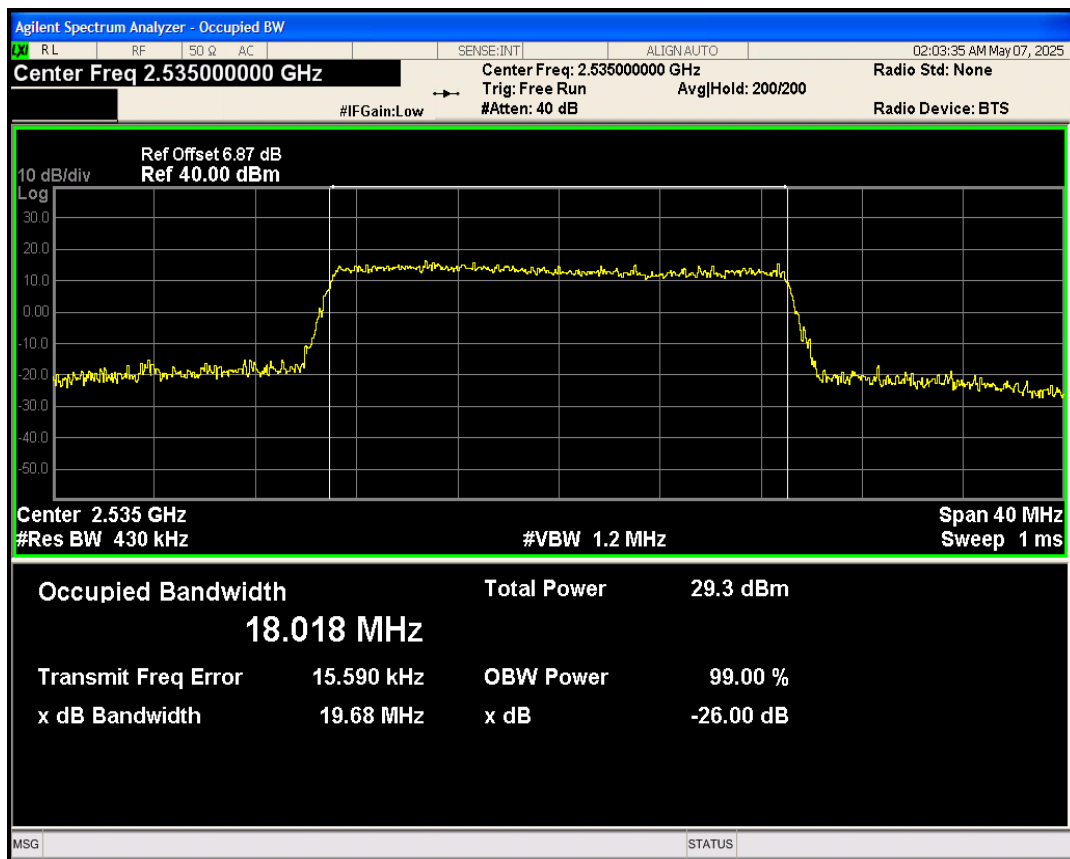




Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0

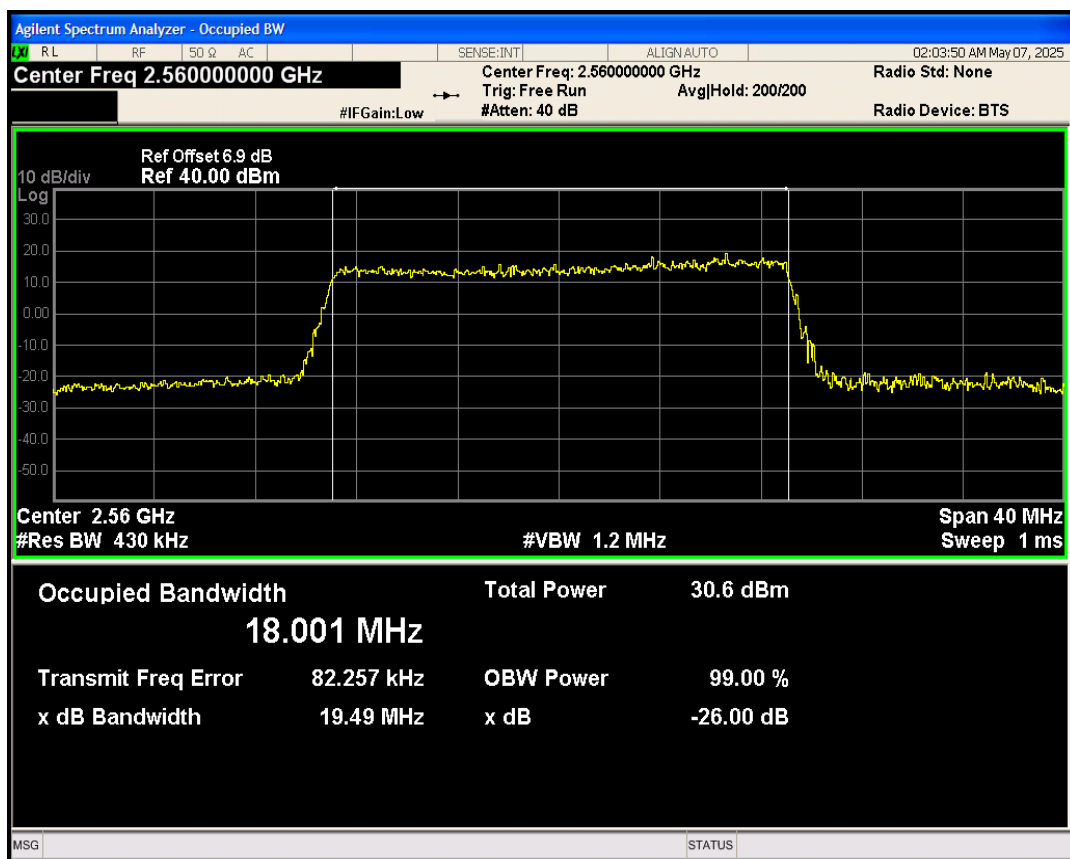


Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0

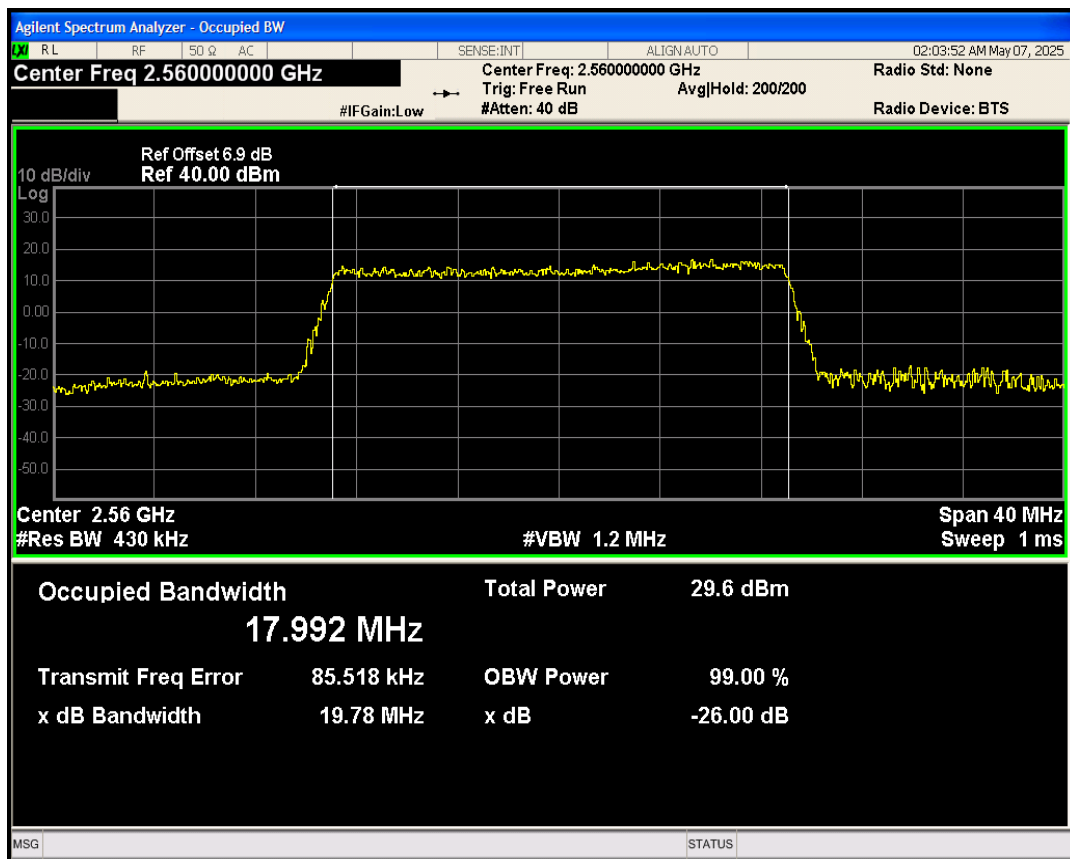




Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

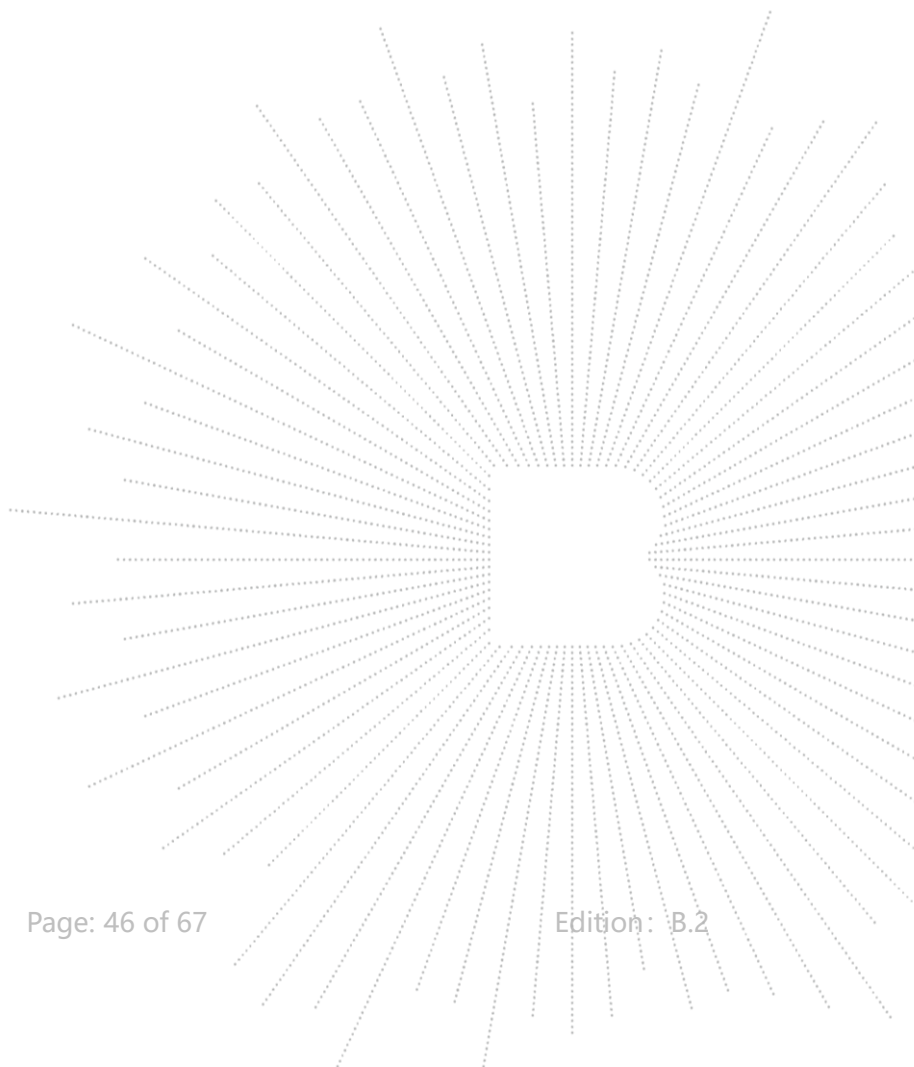


Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0



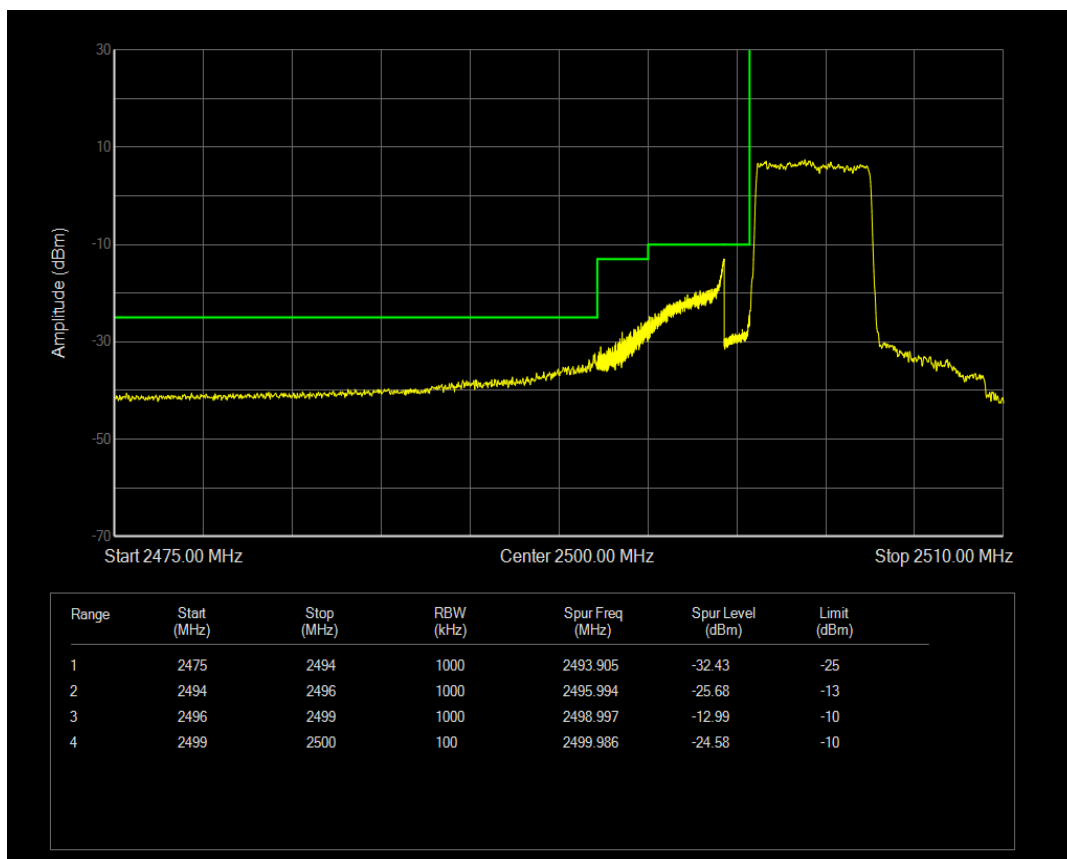
Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	2499.00	-12.99	-10	PASS
Band7	5	20775	25	#0	16QAM	2499.00	-13.29	-10	PASS
Band7	5	21425	25	#0	QPSK	2571.02	-13.60	-10	PASS
Band7	5	21425	25	#0	16QAM	2571.02	-13.71	-10	PASS
Band7	10	20800	50	#0	QPSK	2495.98	-24.59	-13	PASS
Band7	10	20800	50	#0	16QAM	2495.75	-23.95	-13	PASS
Band7	10	21400	50	#0	QPSK	2580.11	-35.93	-25	PASS
Band7	10	21400	50	#0	16QAM	2580.06	-35.96	-25	PASS
Band7	15	20825	75	#0	QPSK	2493.43	-24.54	-13	PASS
Band7	15	20825	75	#0	16QAM	2495.80	-24.63	-13	PASS
Band7	15	21375	75	#0	QPSK	2585.03	-35.25	-25	PASS
Band7	15	21375	75	#0	16QAM	2585.11	-35.87	-25	PASS
Band7	20	20850	100	#0	QPSK	2495.71	-26.23	-13	PASS
Band7	20	20850	100	#0	16QAM	2495.87	-25.76	-13	PASS
Band7	20	21350	100	#0	QPSK	2590.07	-36.20	-25	PASS
Band7	20	21350	100	#0	16QAM	2590.38	-36.33	-25	PASS

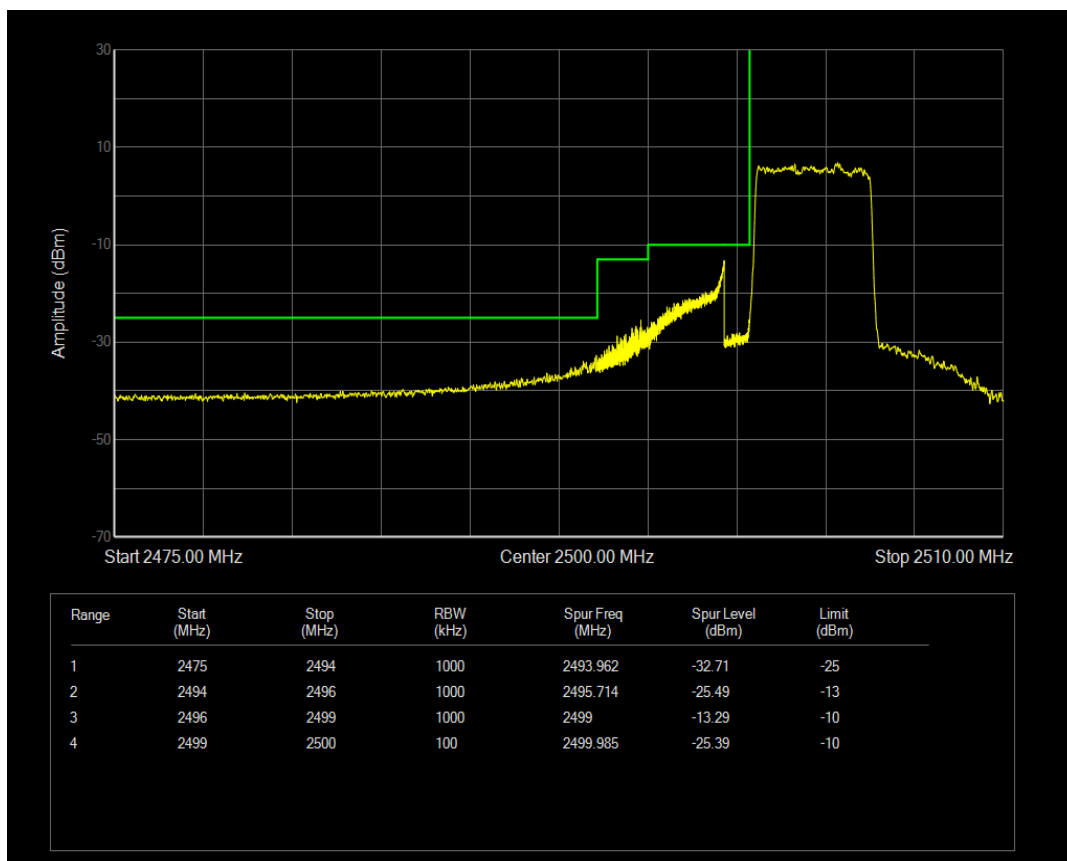




Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

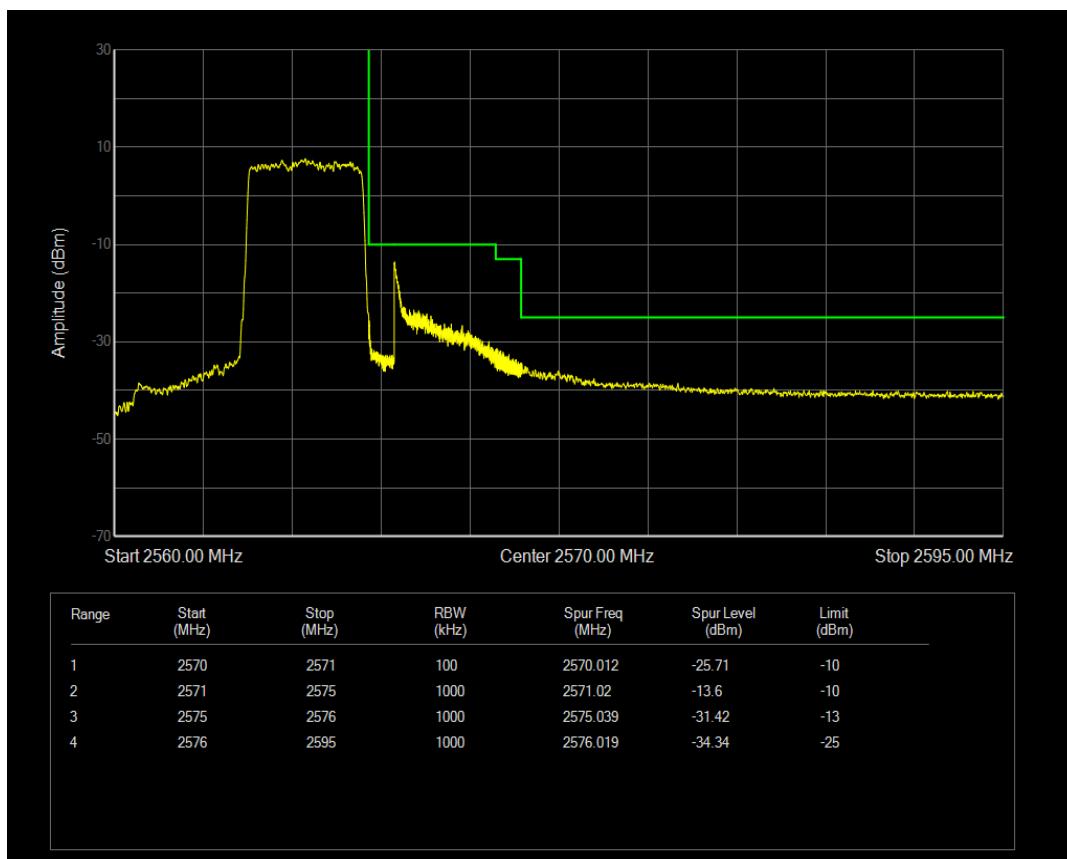


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0

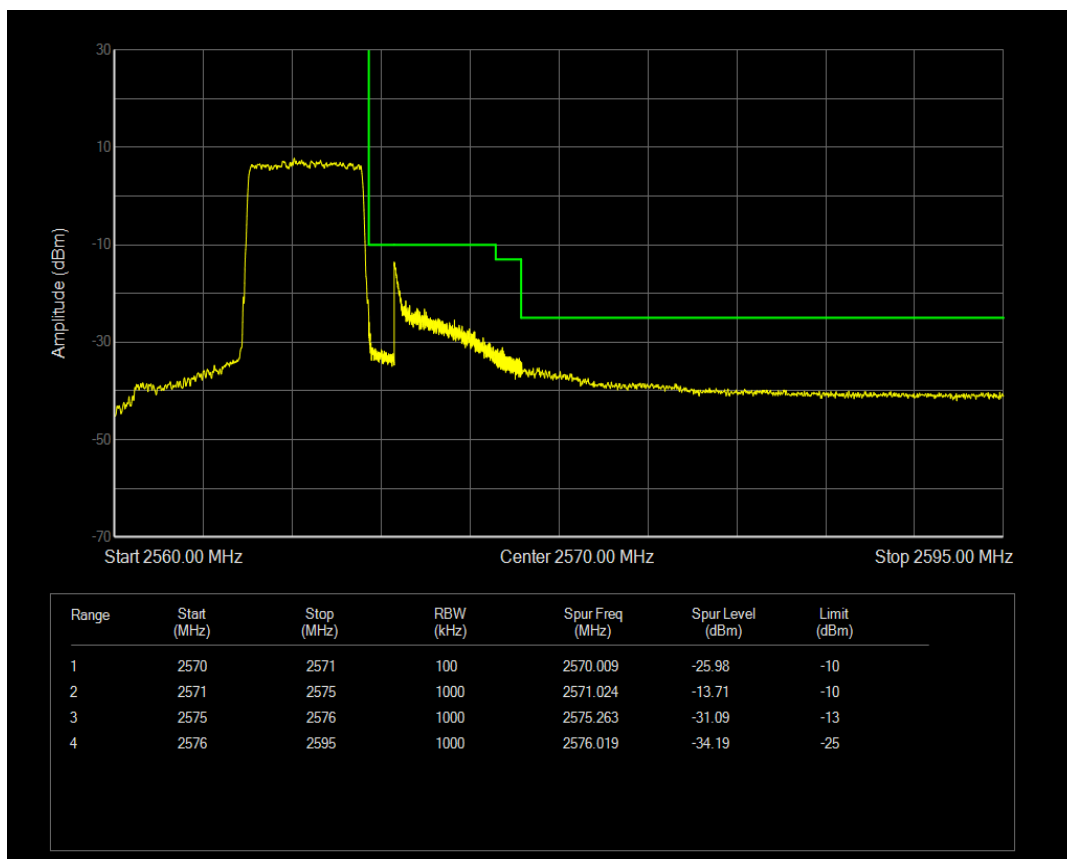




Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

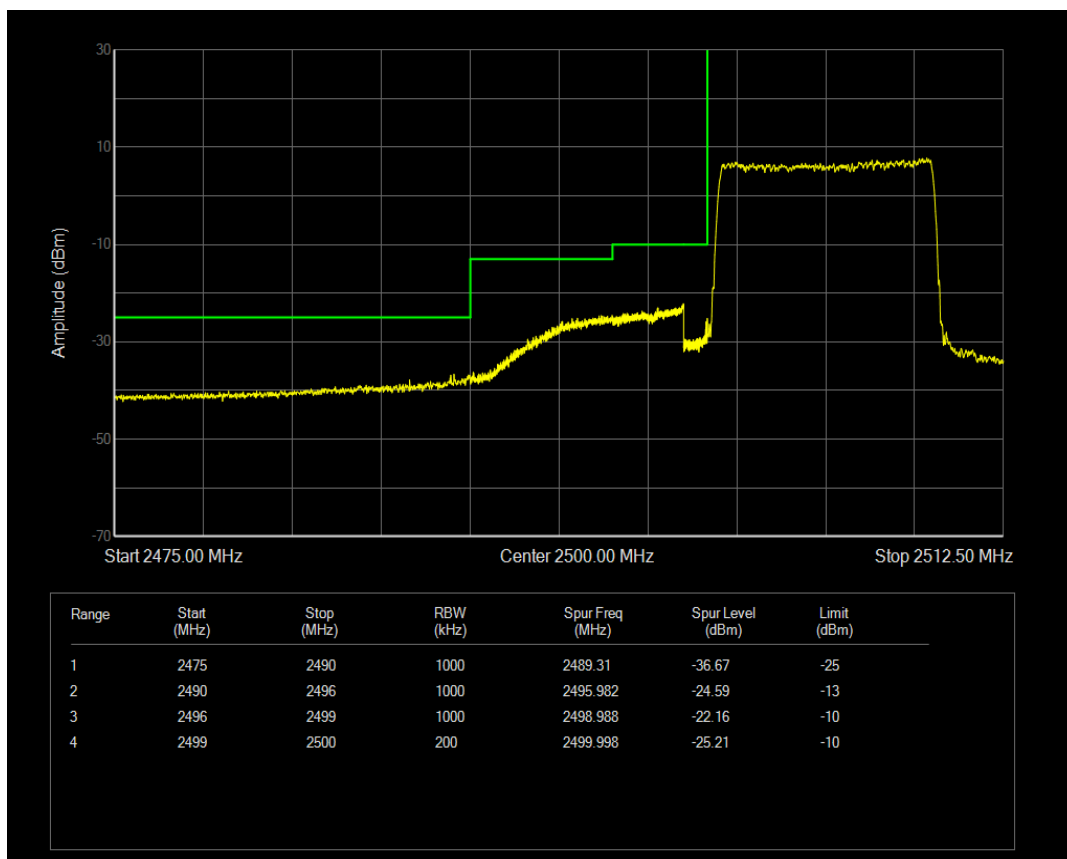


Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

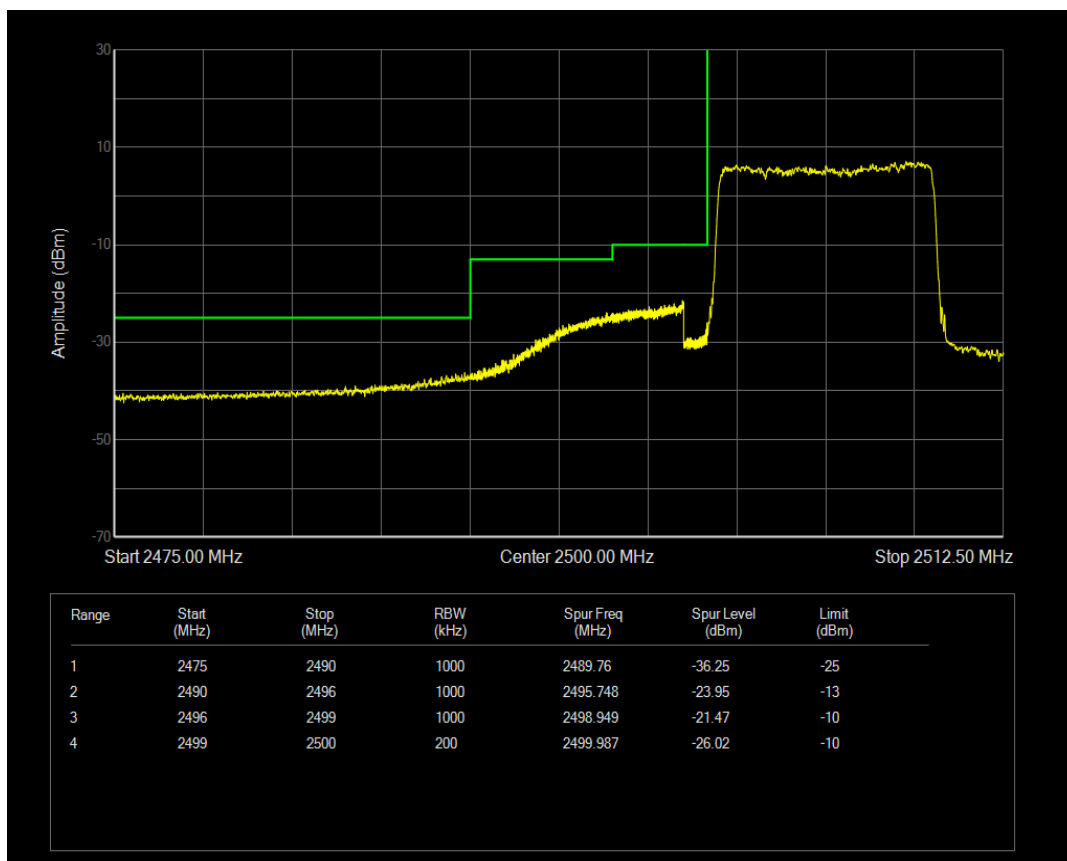




Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

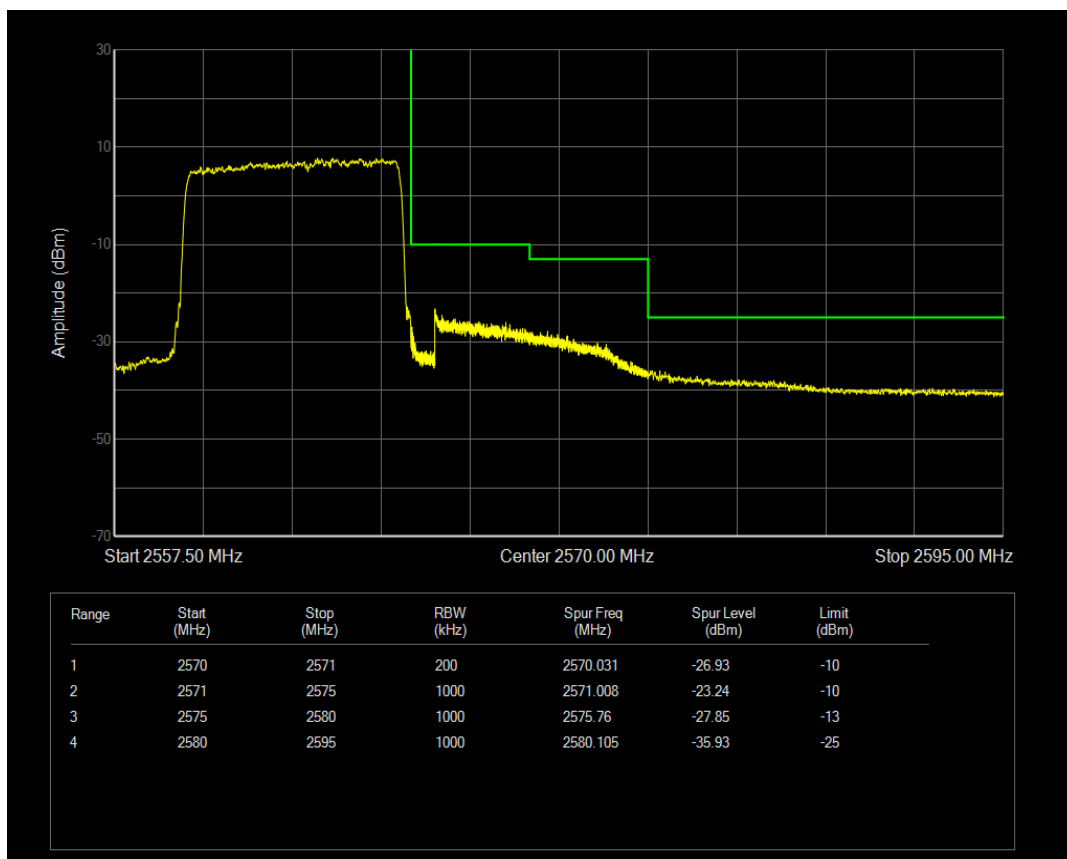


Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0

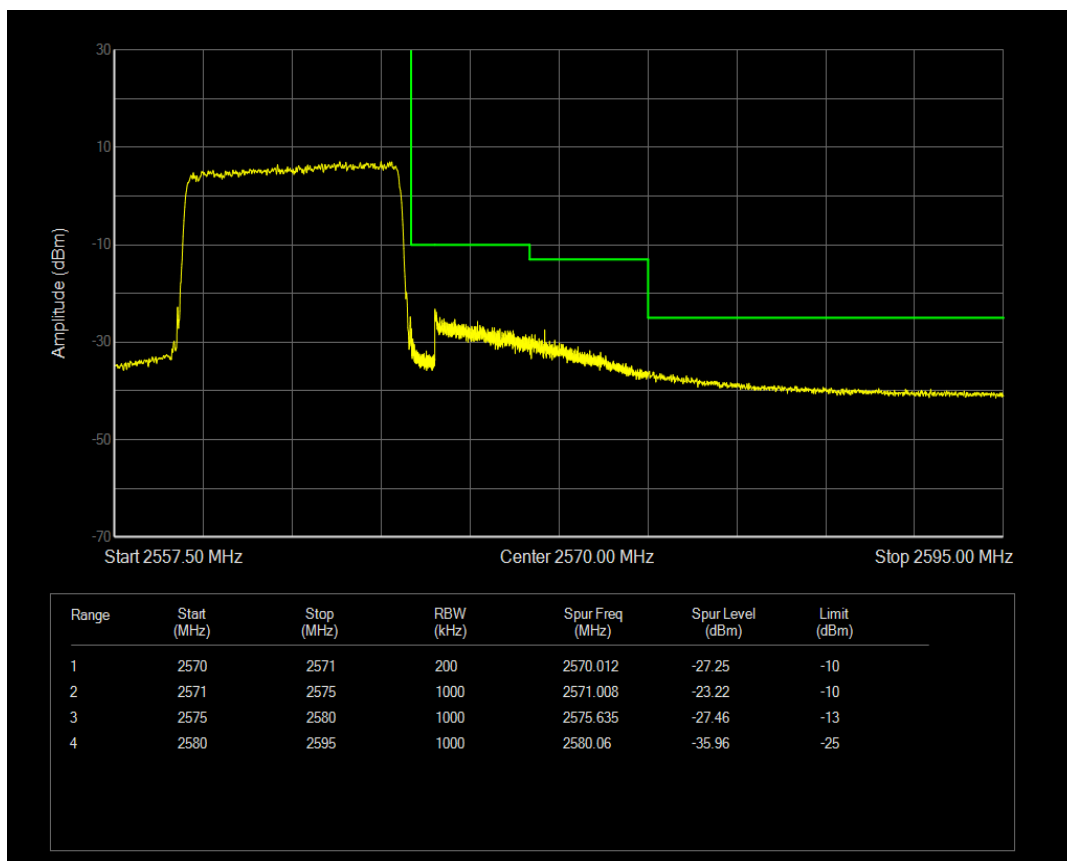




Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

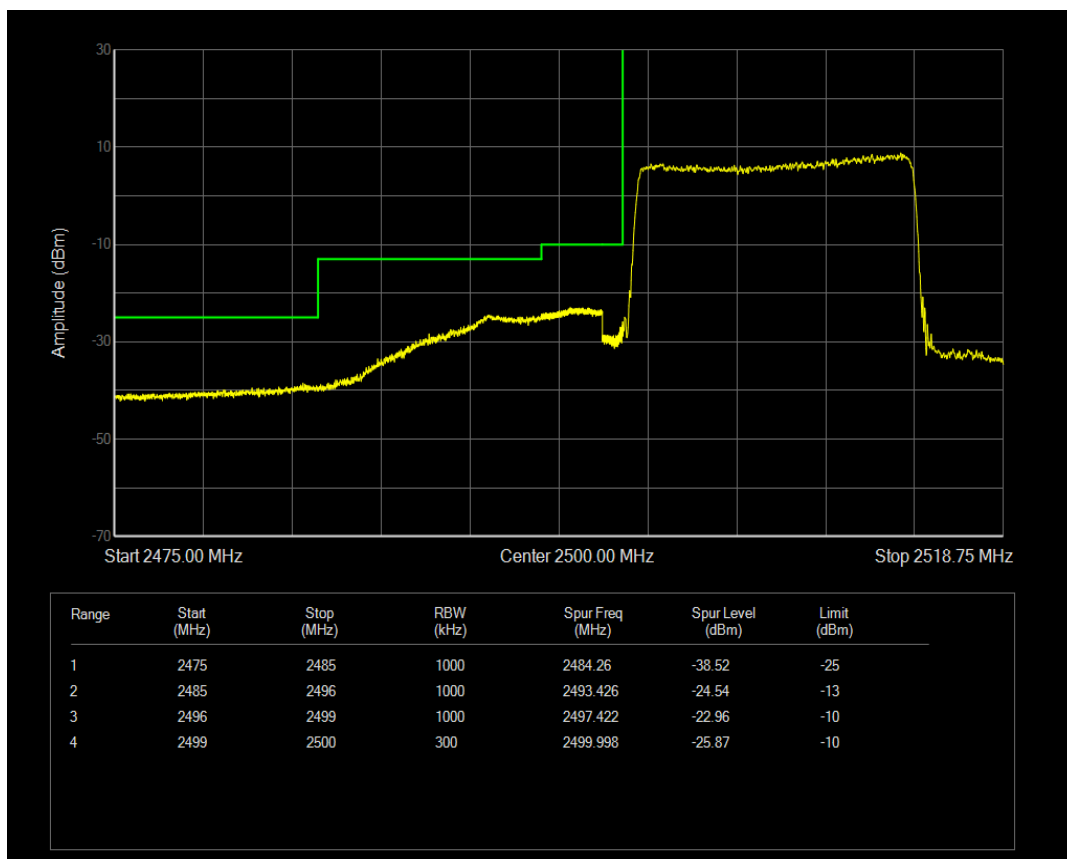


Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0

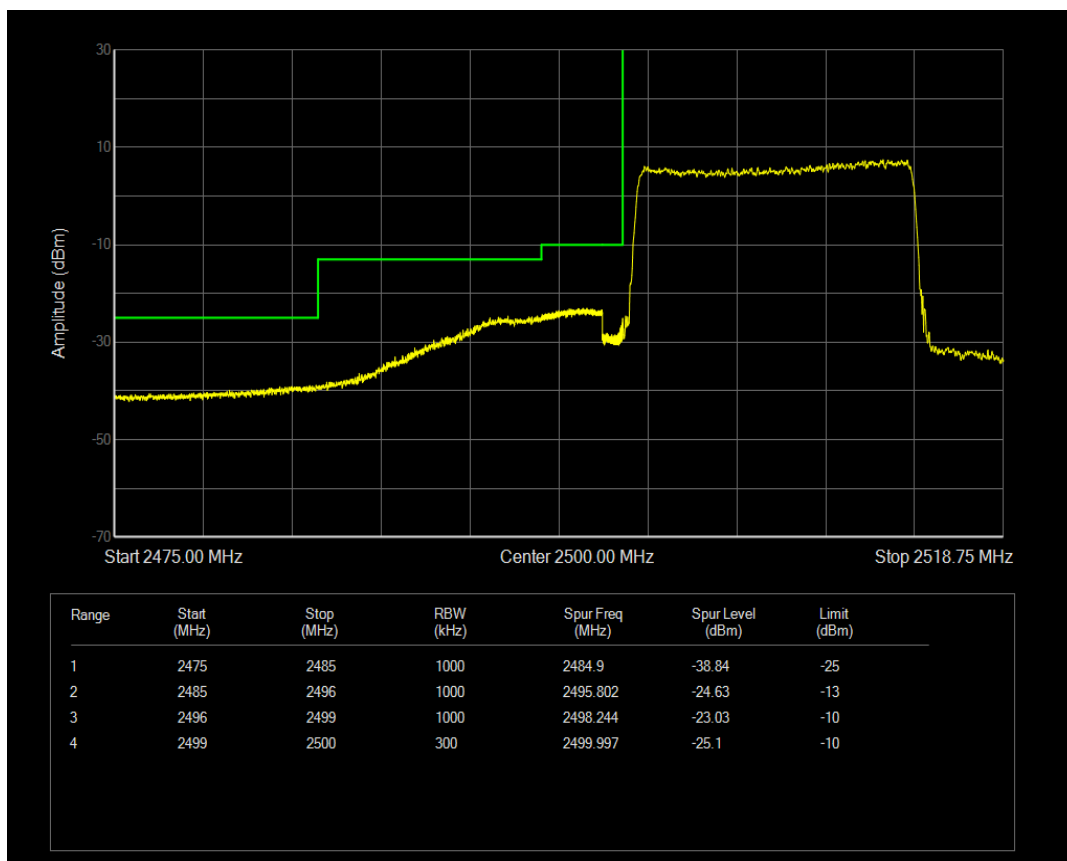




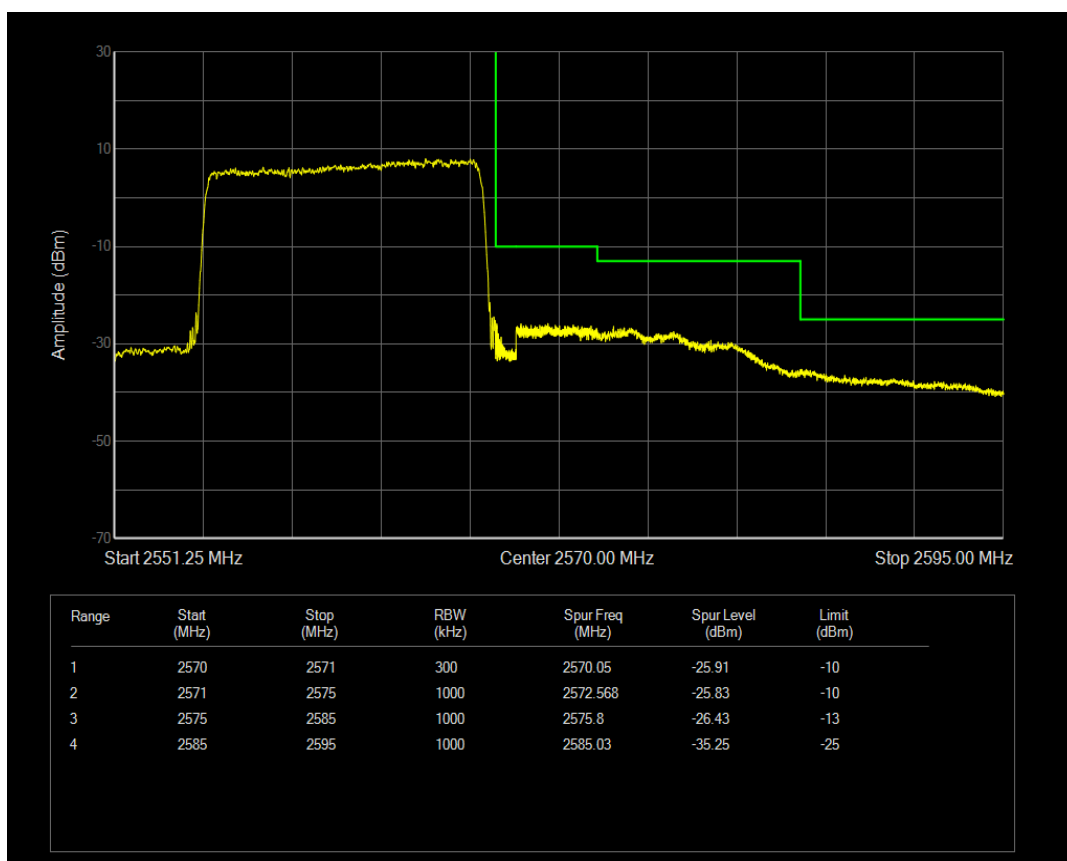
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



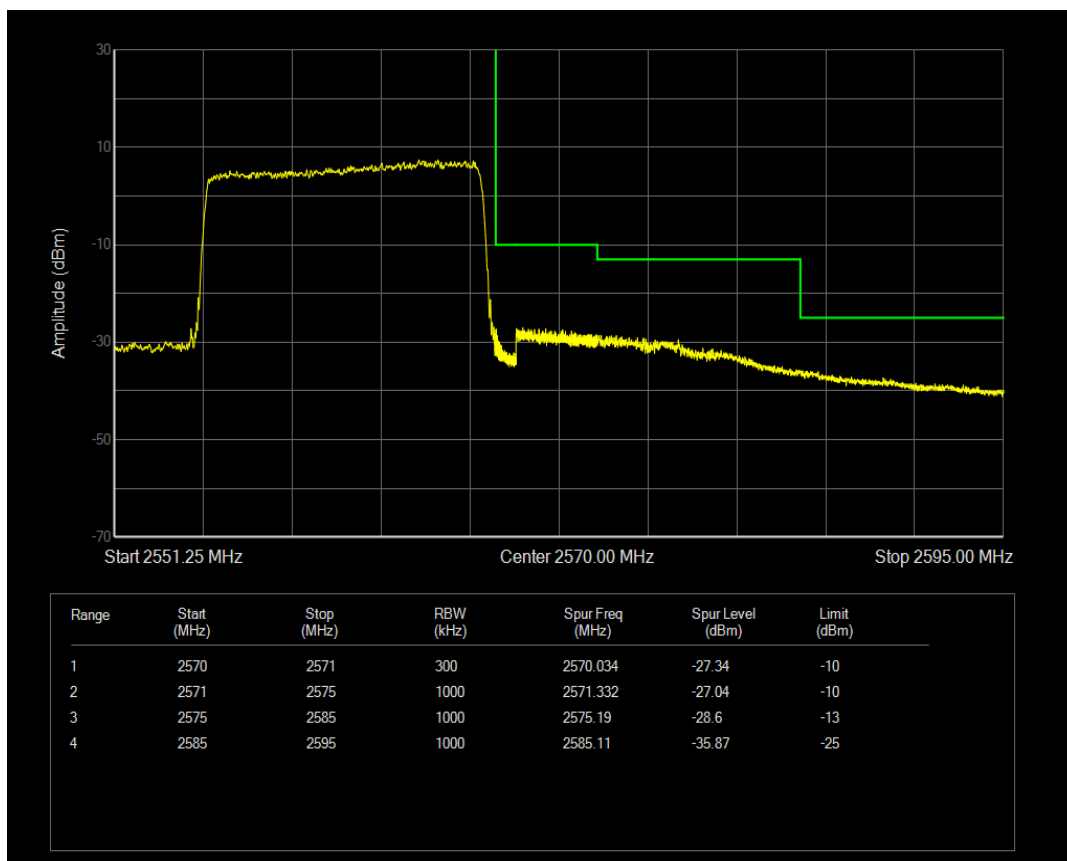
Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0



Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

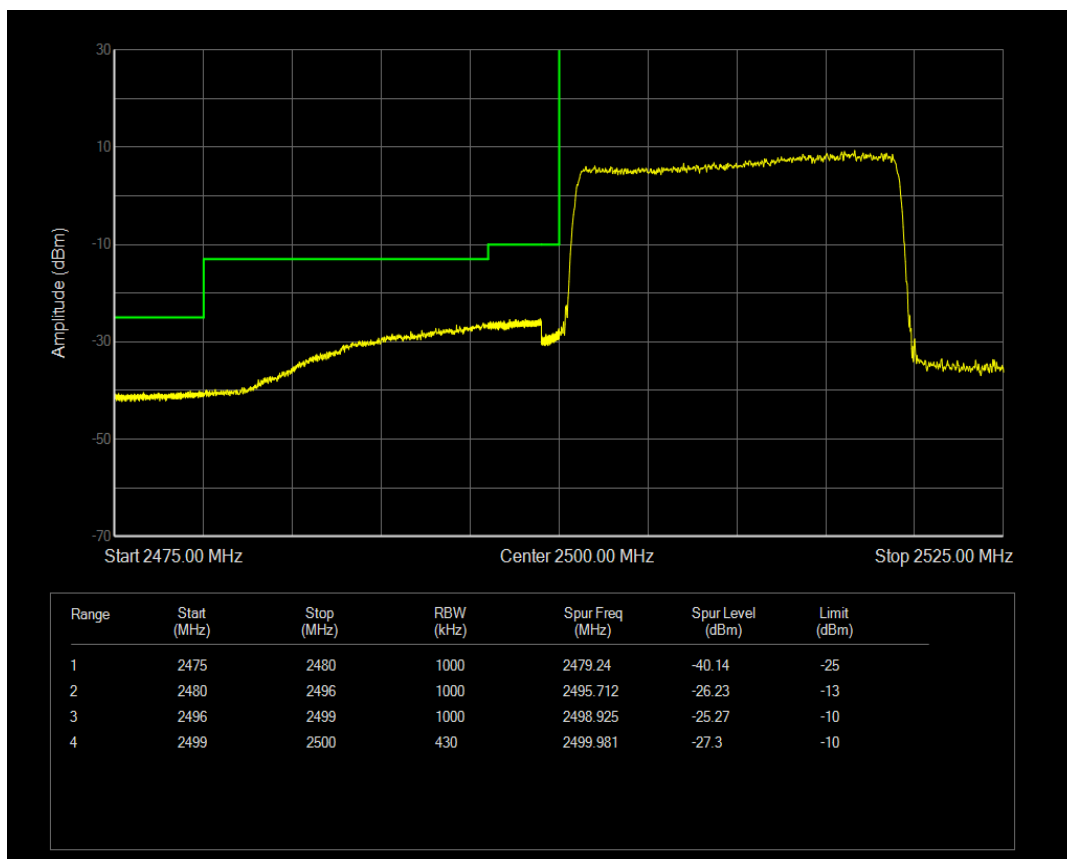


Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0

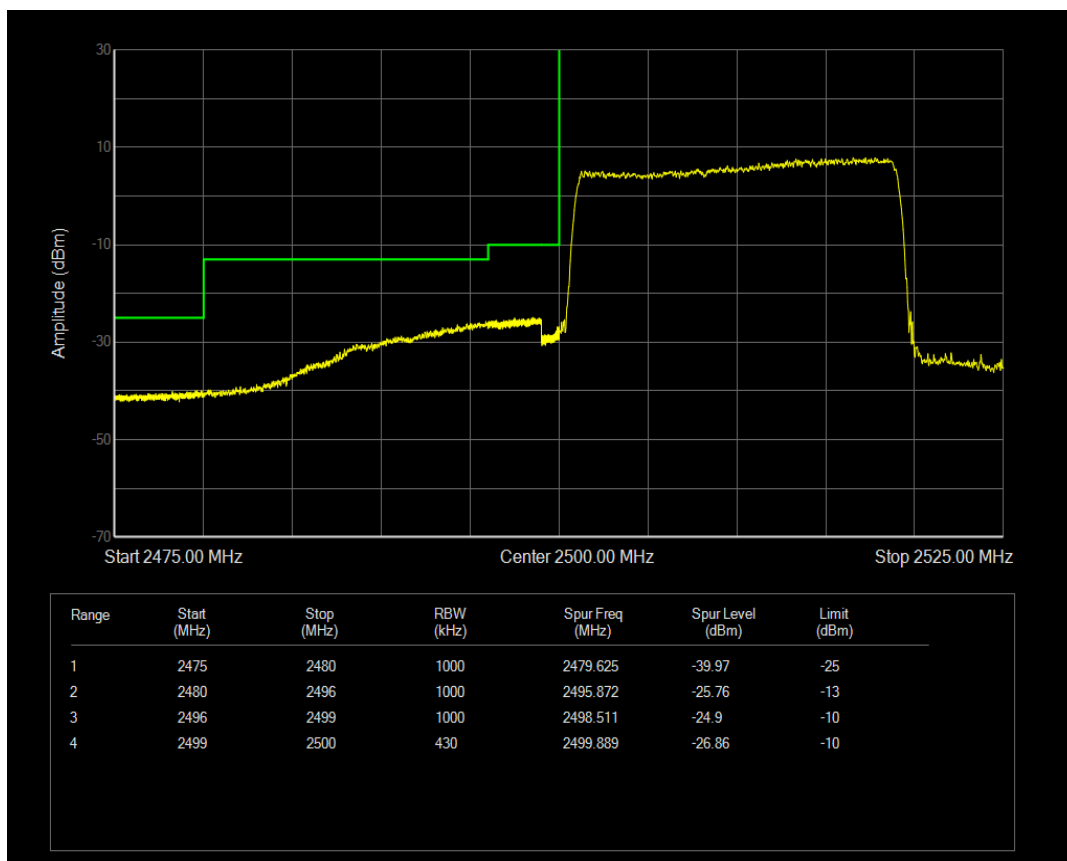




Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0

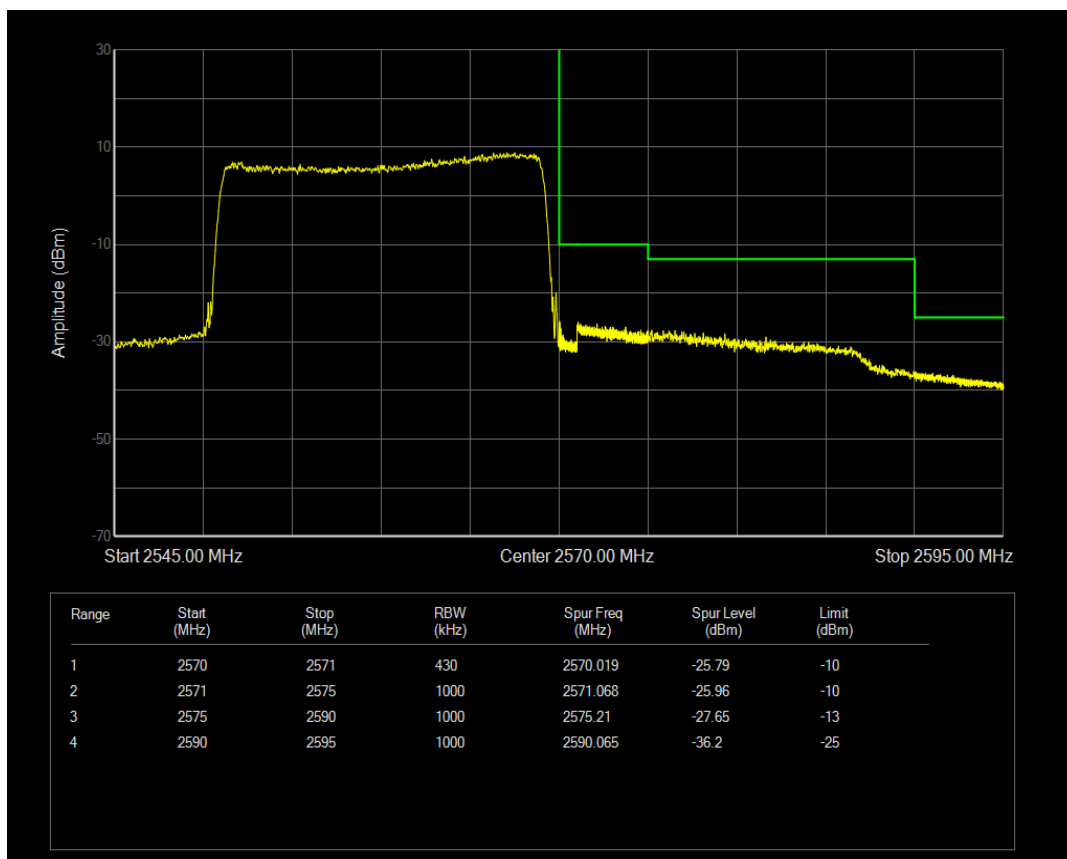


Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0

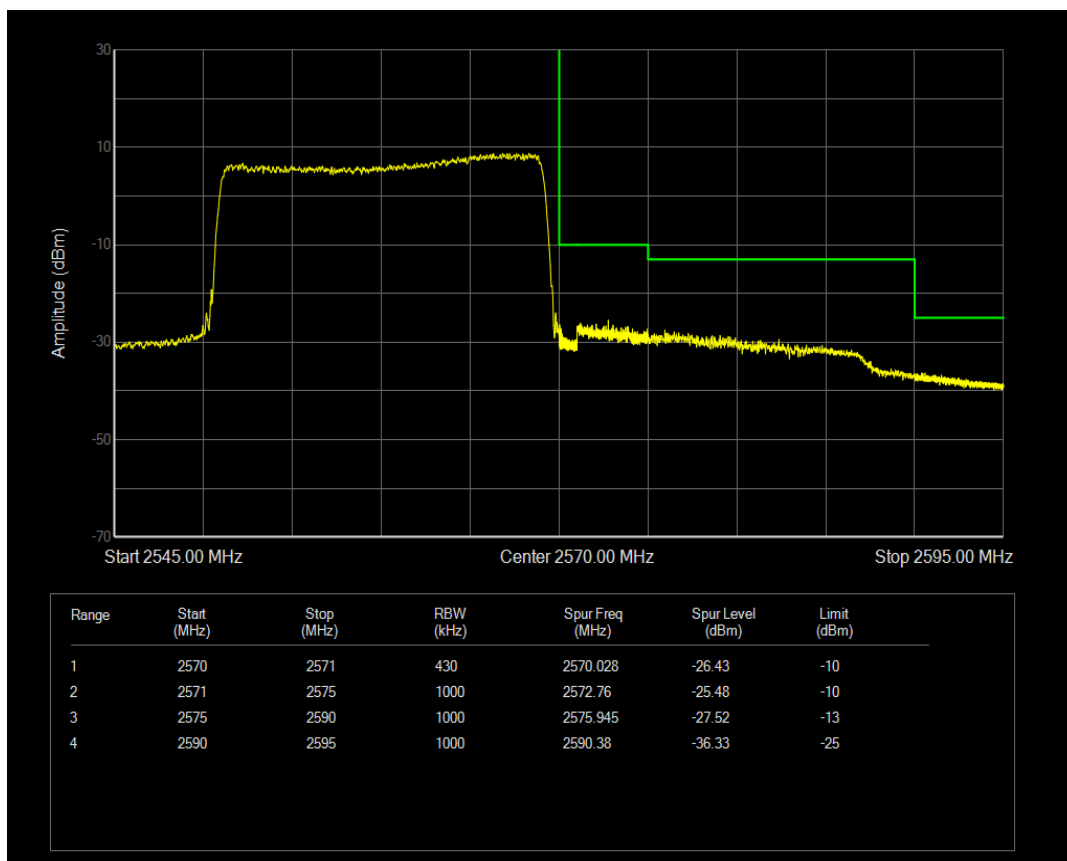




Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

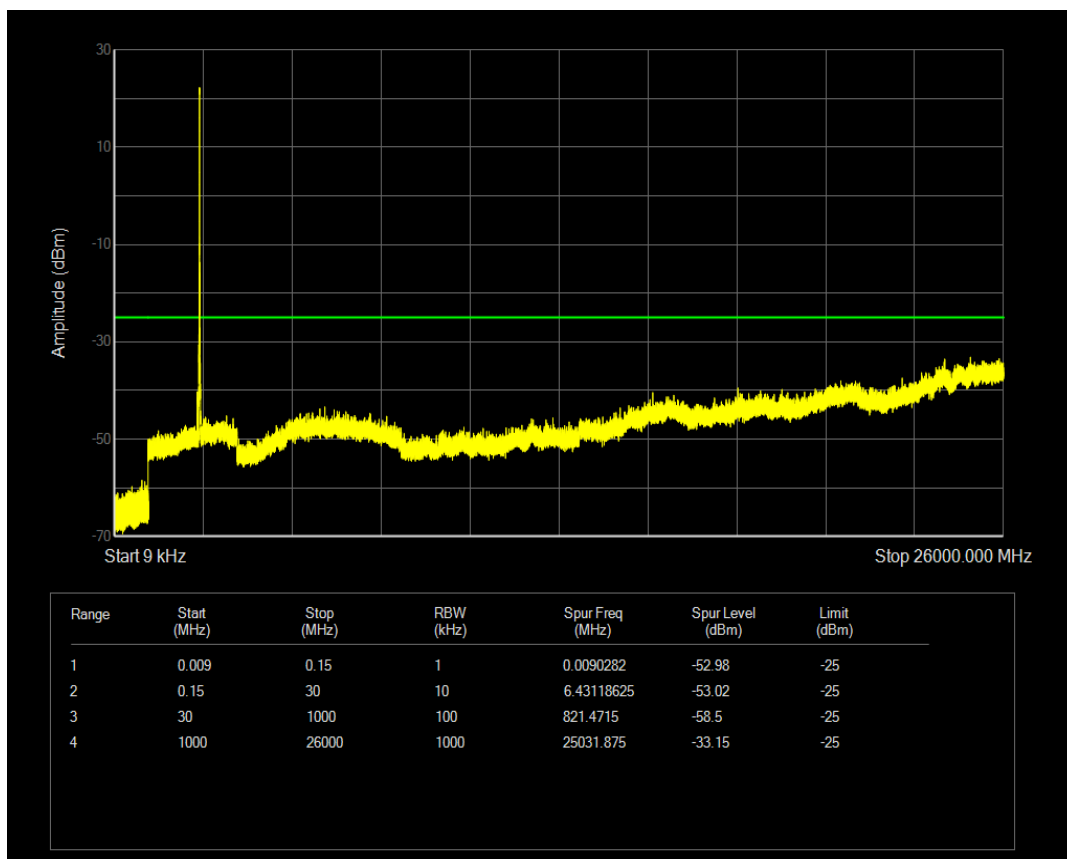


Appendix 6. Out-of-band emissions

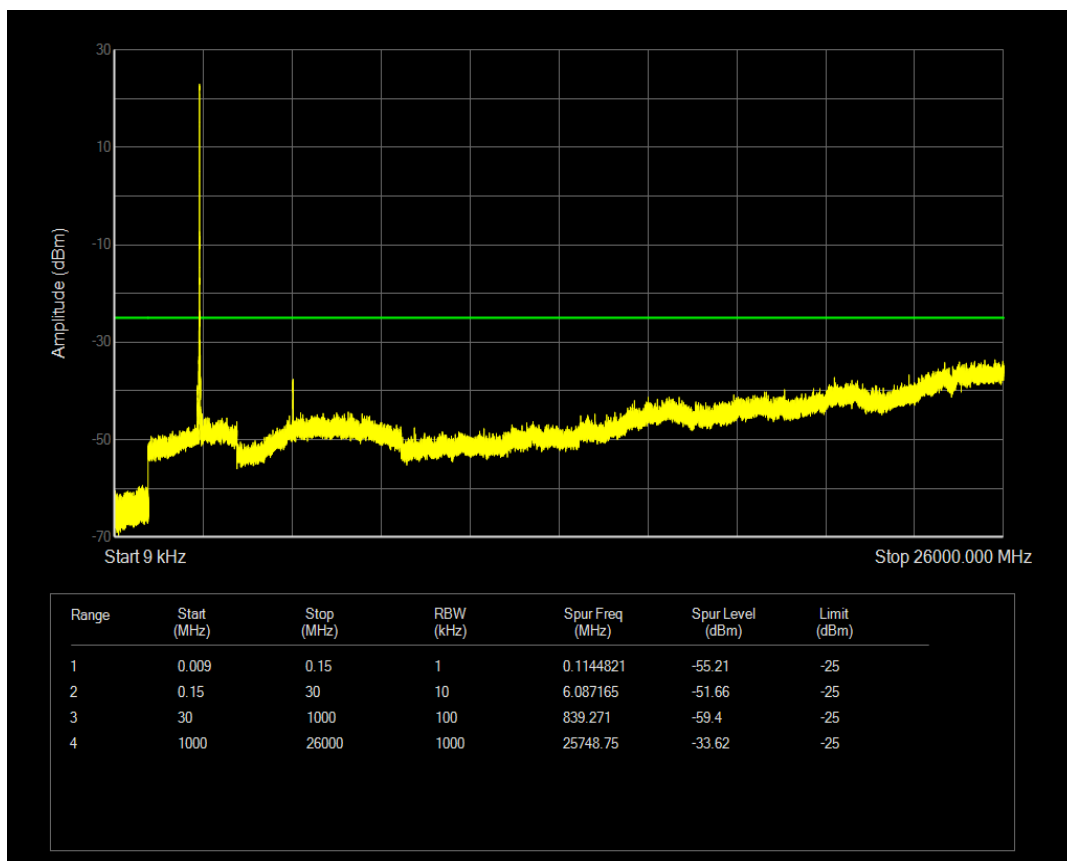
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	25031.88	-33.15	-25	PASS
Band7	5	20775	25	#0	16QAM	25748.75	-33.62	-25	PASS
Band7	5	21100	25	#0	QPSK	25080.63	-32.91	-25	PASS
Band7	5	21100	25	#0	16QAM	25126.88	-33.32	-25	PASS
Band7	5	21425	25	#0	QPSK	24746.25	-32.23	-25	PASS
Band7	5	21425	25	#0	16QAM	25330.00	-32.54	-25	PASS
Band7	10	20800	50	#0	QPSK	24261.88	-33.01	-25	PASS
Band7	10	20800	50	#0	16QAM	25499.38	-32.74	-25	PASS
Band7	10	21100	50	#0	QPSK	25886.25	-32.96	-25	PASS
Band7	10	21100	50	#0	16QAM	25863.75	-32.32	-25	PASS
Band7	10	21400	50	#0	QPSK	24659.38	-33.44	-25	PASS
Band7	10	21400	50	#0	16QAM	25717.50	-32.88	-25	PASS
Band7	15	20825	75	#0	QPSK	25390.00	-32.13	-25	PASS
Band7	15	20825	75	#0	16QAM	25780.00	-33.43	-25	PASS
Band7	15	21100	75	#0	QPSK	25371.25	-33.35	-25	PASS
Band7	15	21100	75	#0	16QAM	25975.63	-32.67	-25	PASS
Band7	15	21375	75	#0	QPSK	25991.88	-33.48	-25	PASS
Band7	15	21375	75	#0	16QAM	25886.88	-32.09	-25	PASS
Band7	20	20850	100	#0	QPSK	25396.88	-33.16	-25	PASS
Band7	20	20850	100	#0	16QAM	25533.75	-32.56	-25	PASS
Band7	20	21100	100	#0	QPSK	25398.13	-33.11	-25	PASS
Band7	20	21100	100	#0	16QAM	25852.50	-32.28	-25	PASS
Band7	20	21350	100	#0	QPSK	25061.25	-32.93	-25	PASS
Band7	20	21350	100	#0	16QAM	25739.38	-32.81	-25	PASS



Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

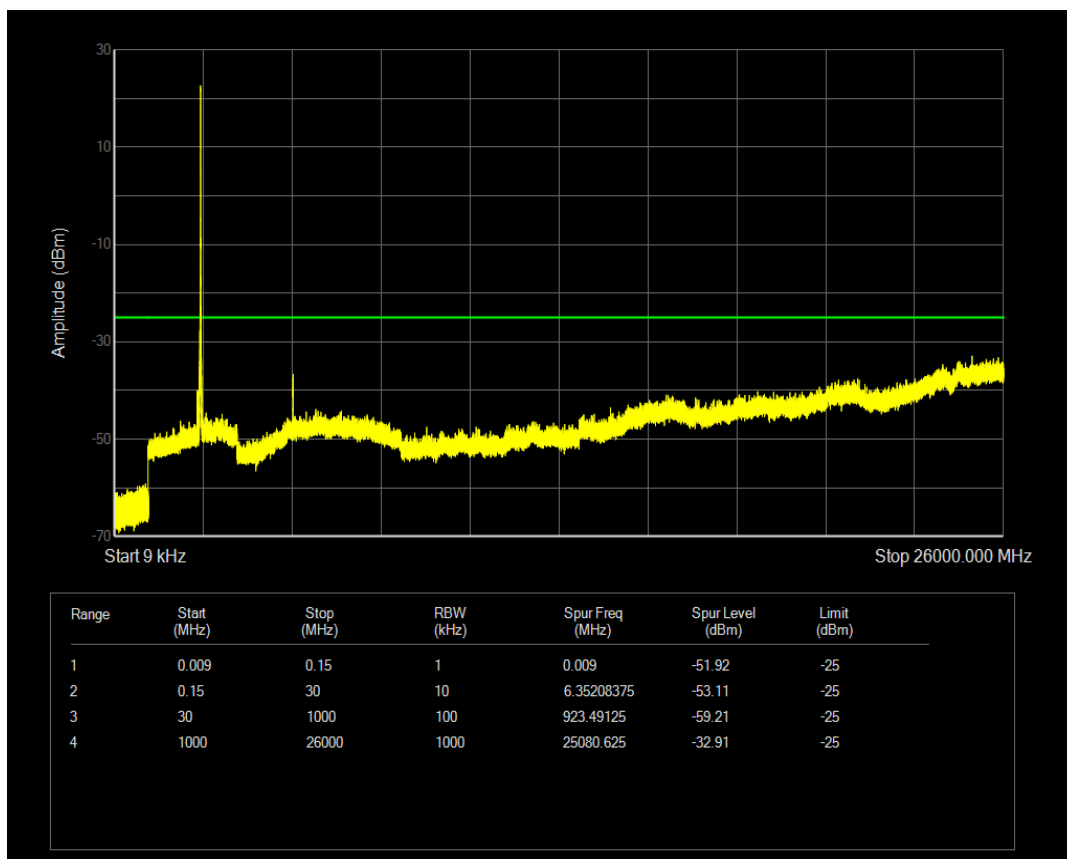


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0

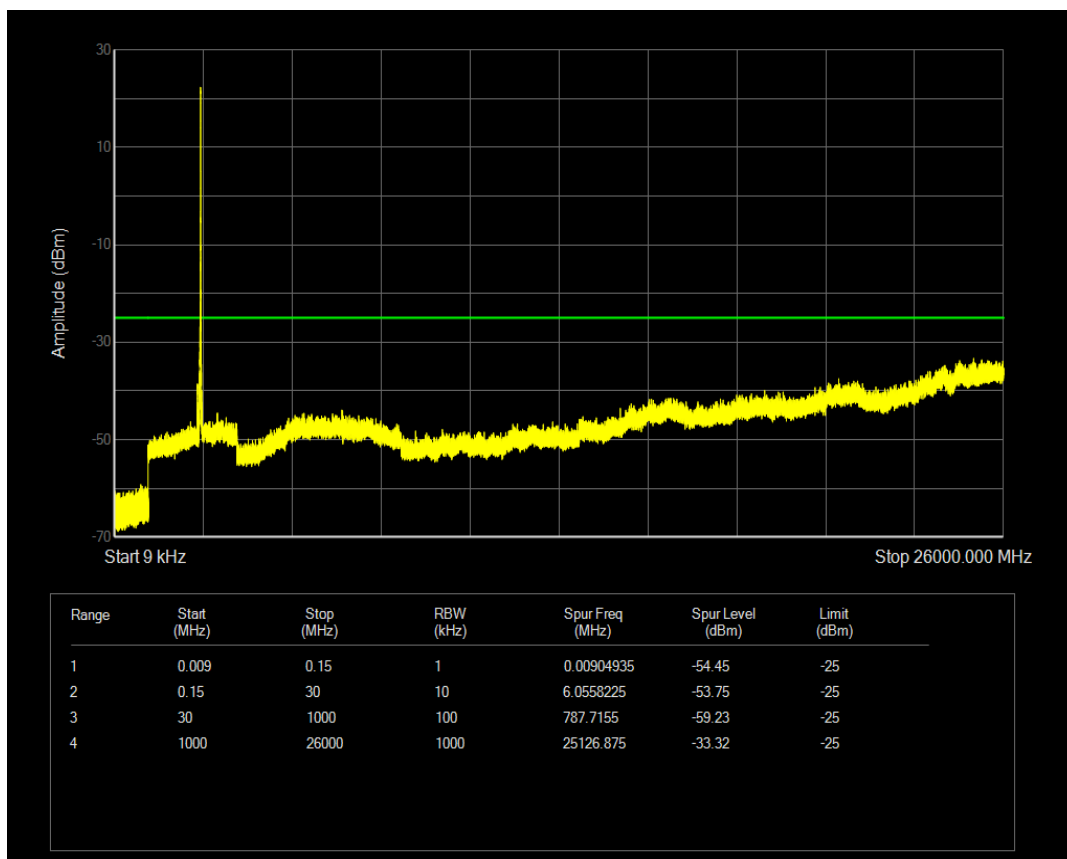




Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0

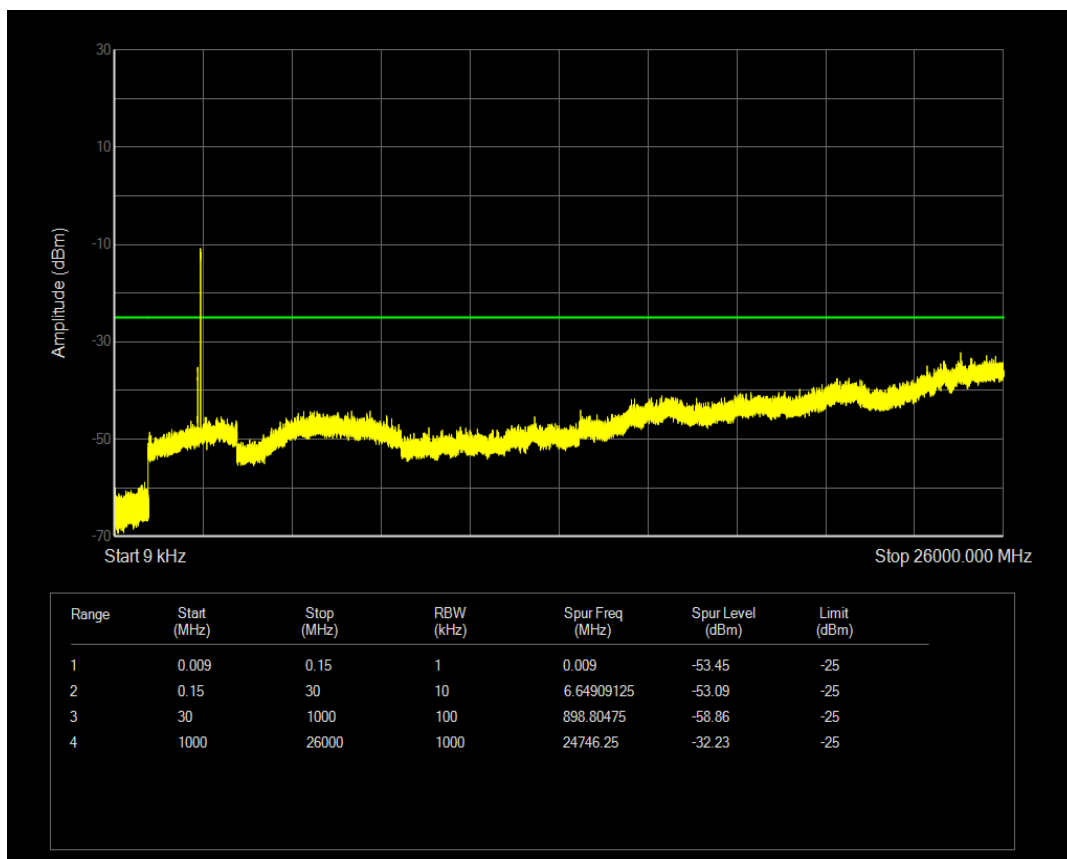


Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0

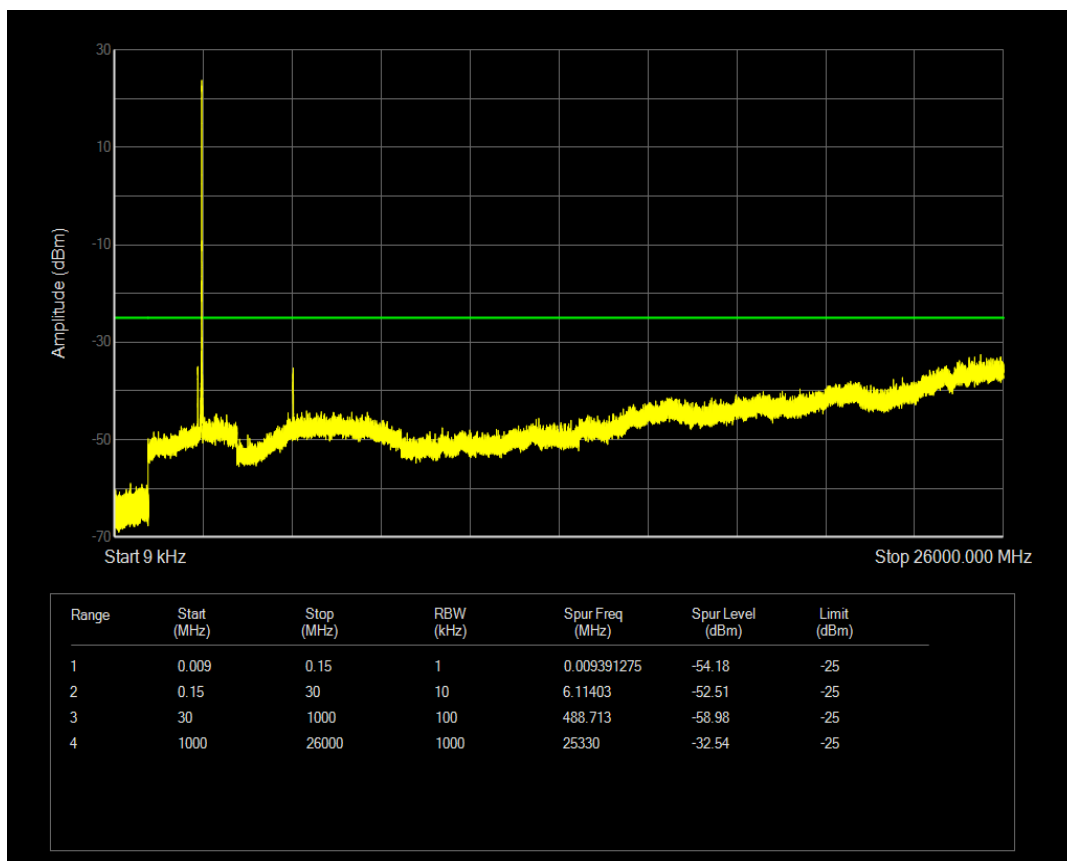




Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

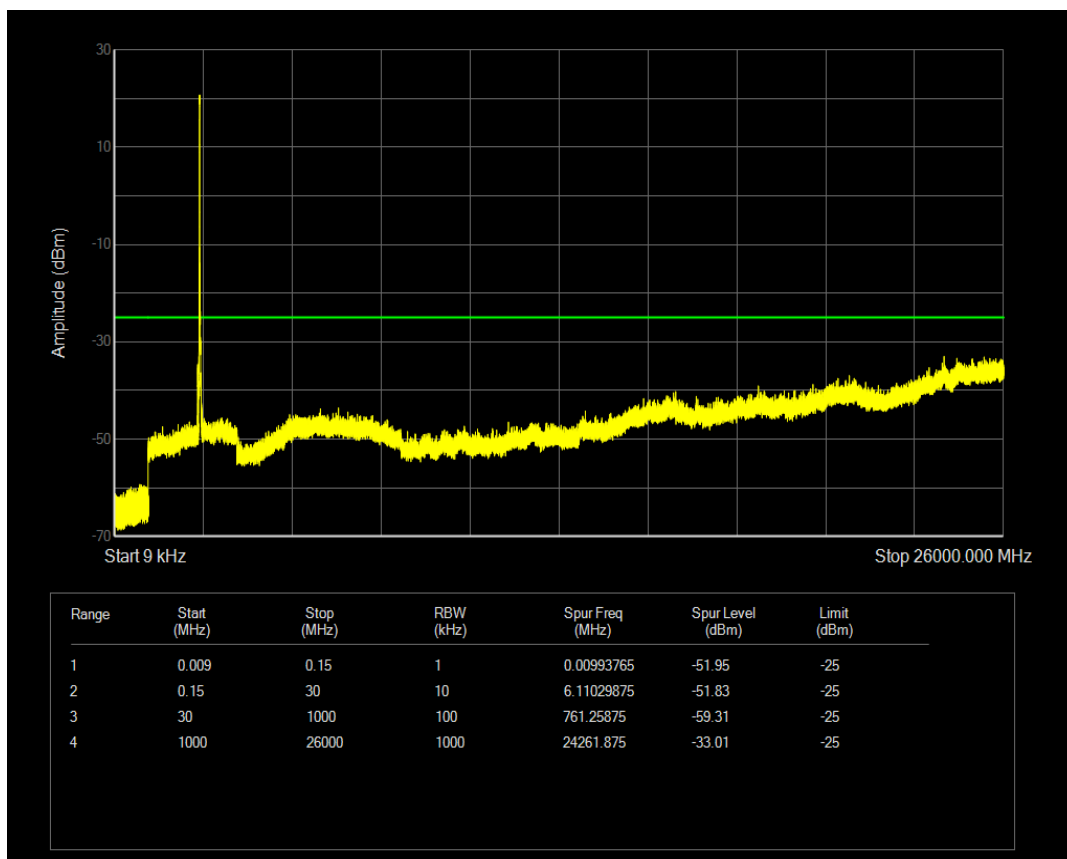


Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

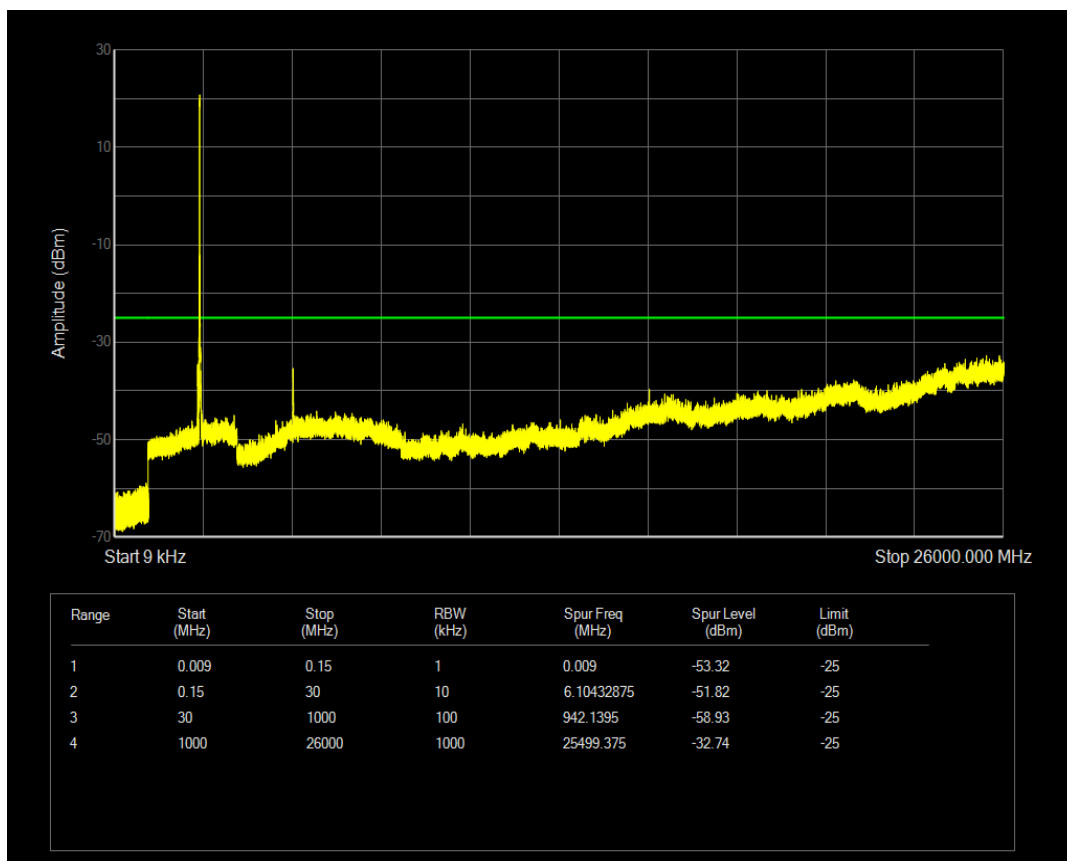




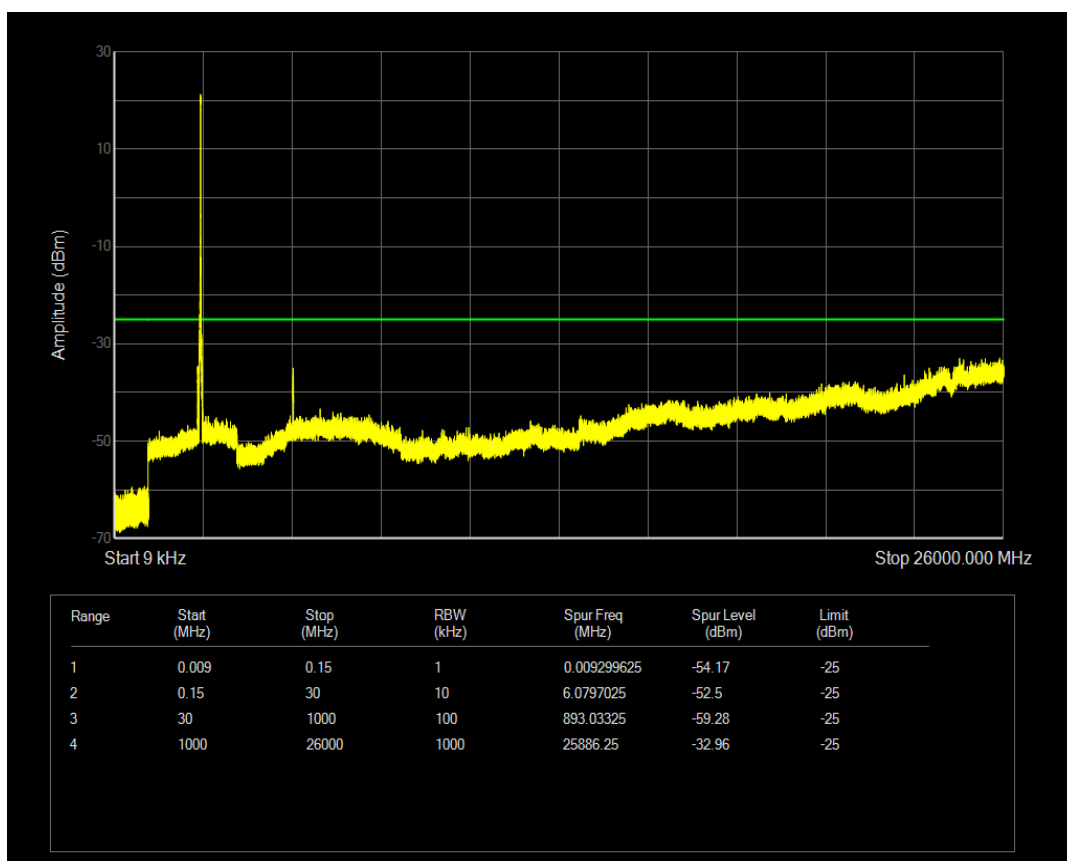
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



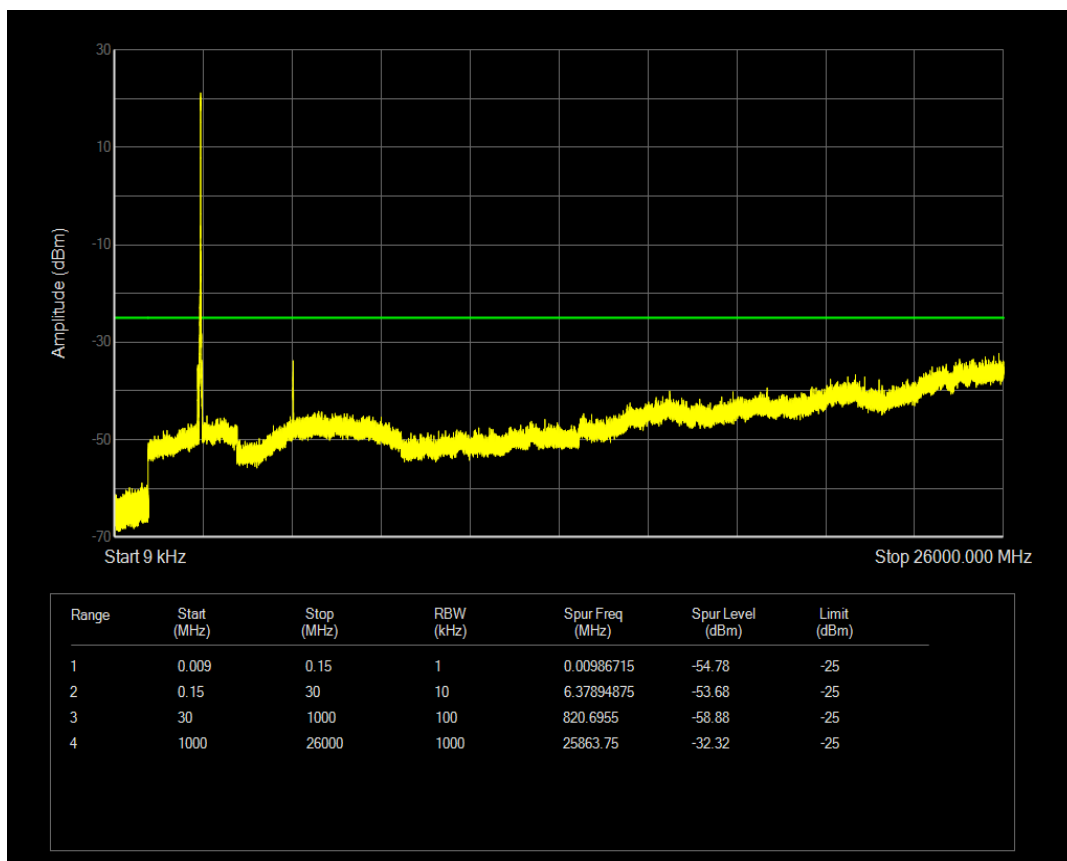
Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0



Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0

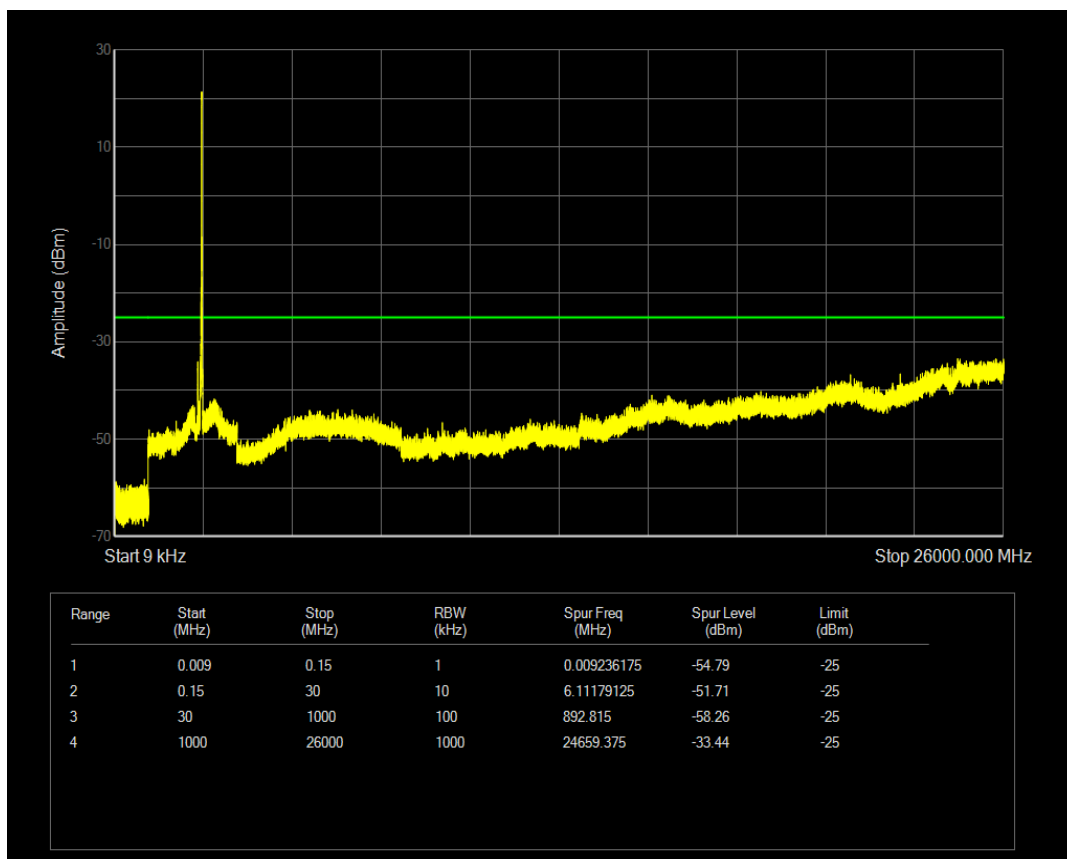


Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0

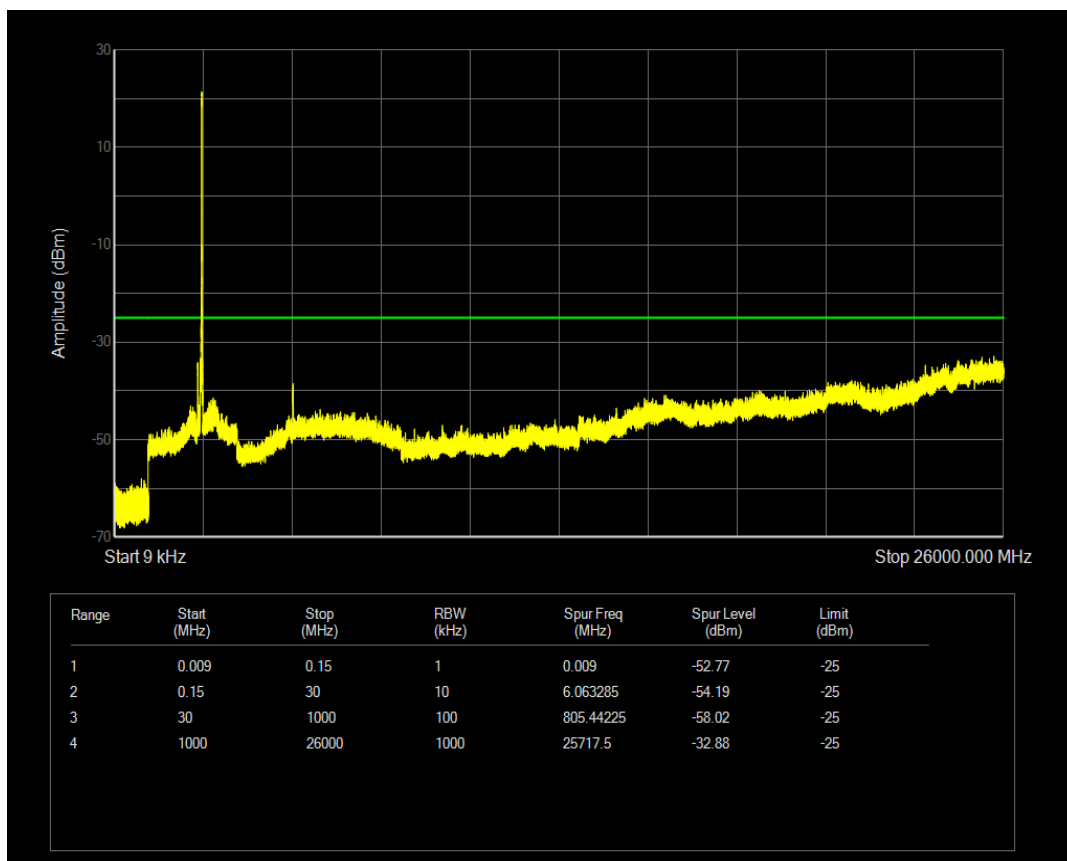




Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

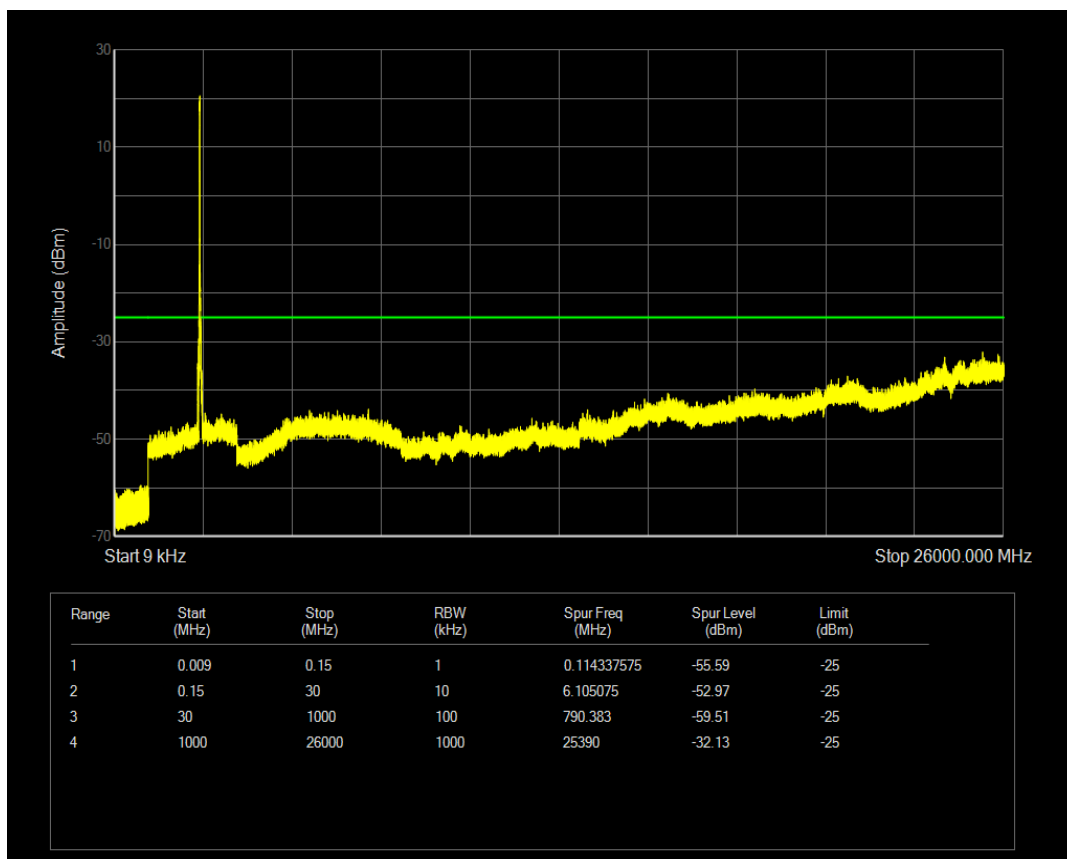


Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0

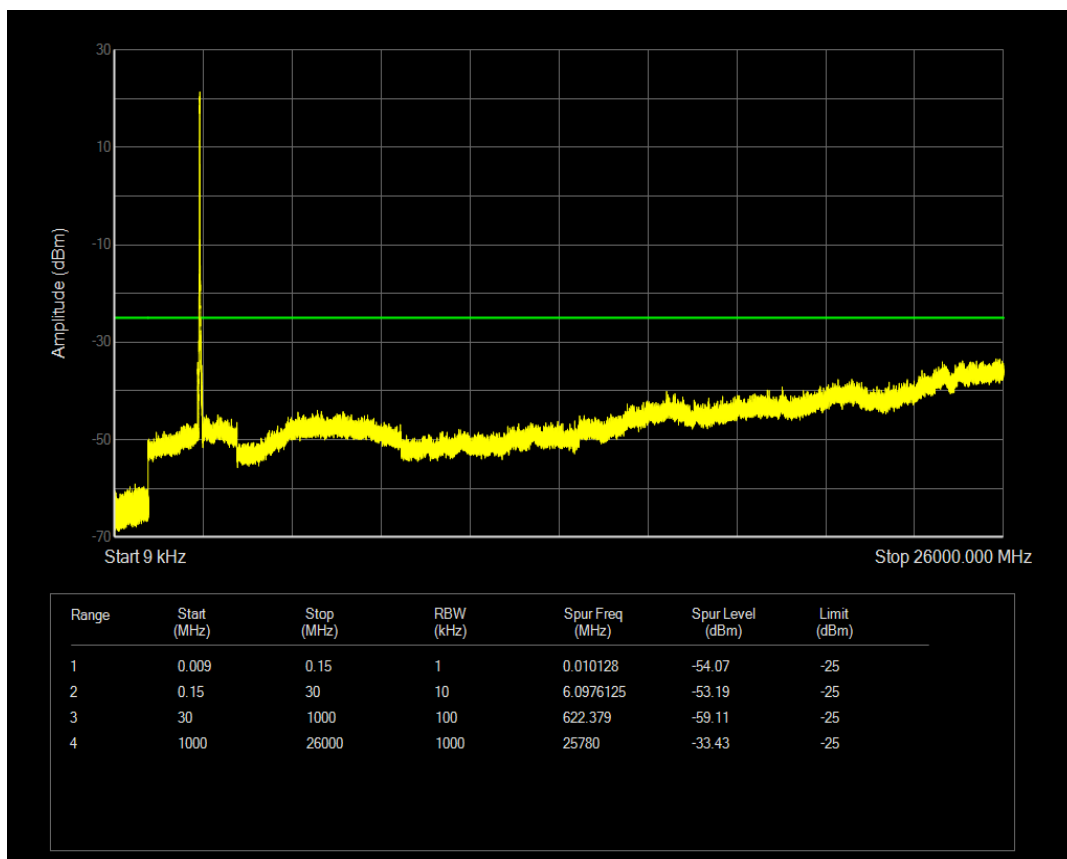




Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

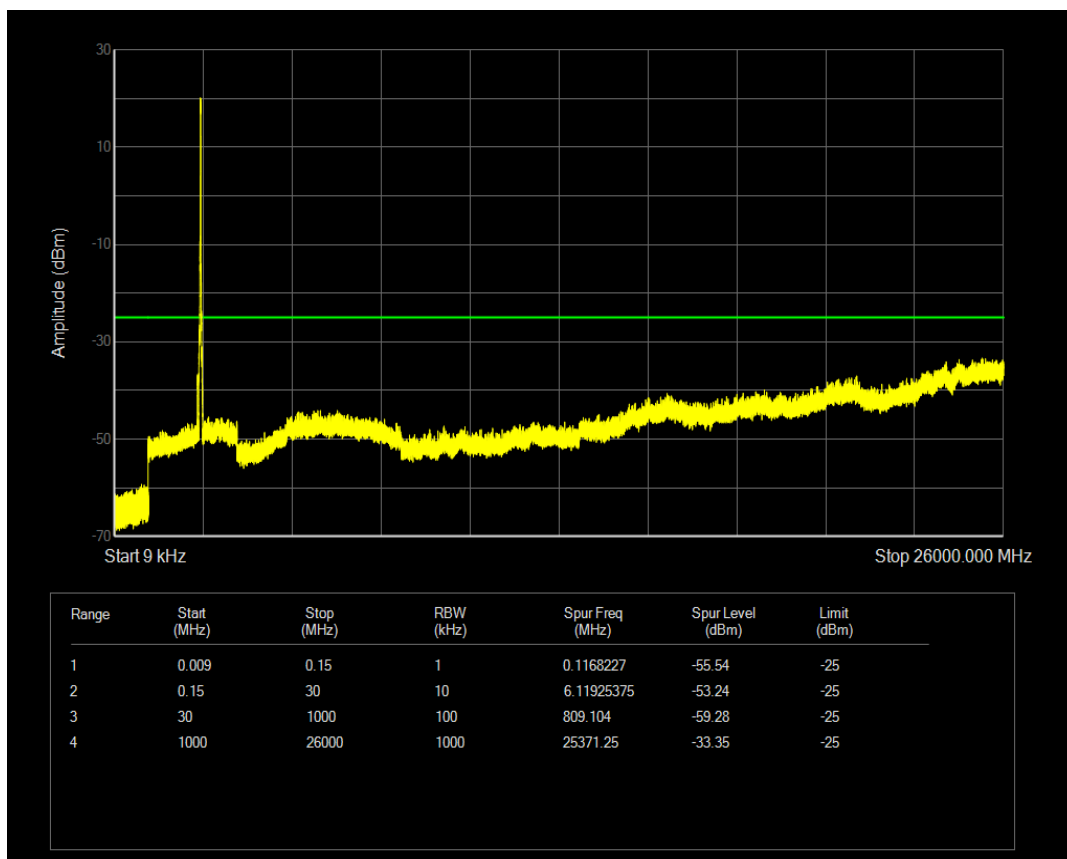


Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0

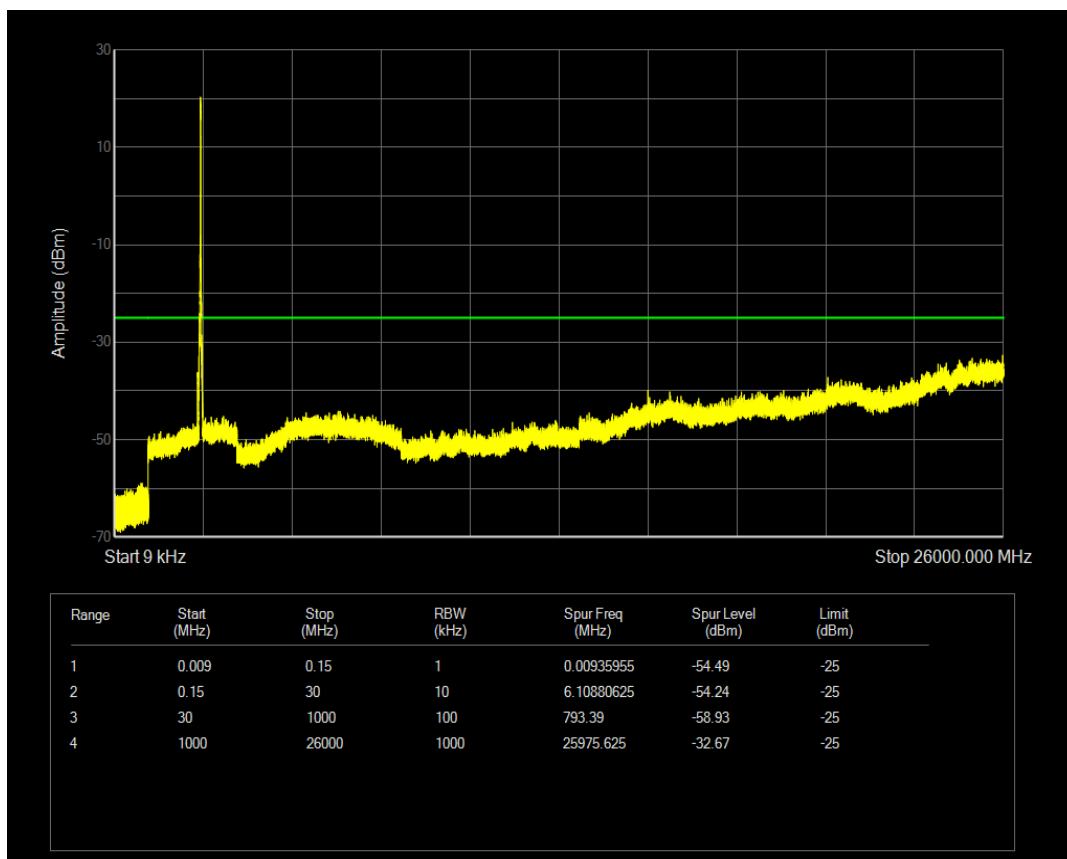




Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0

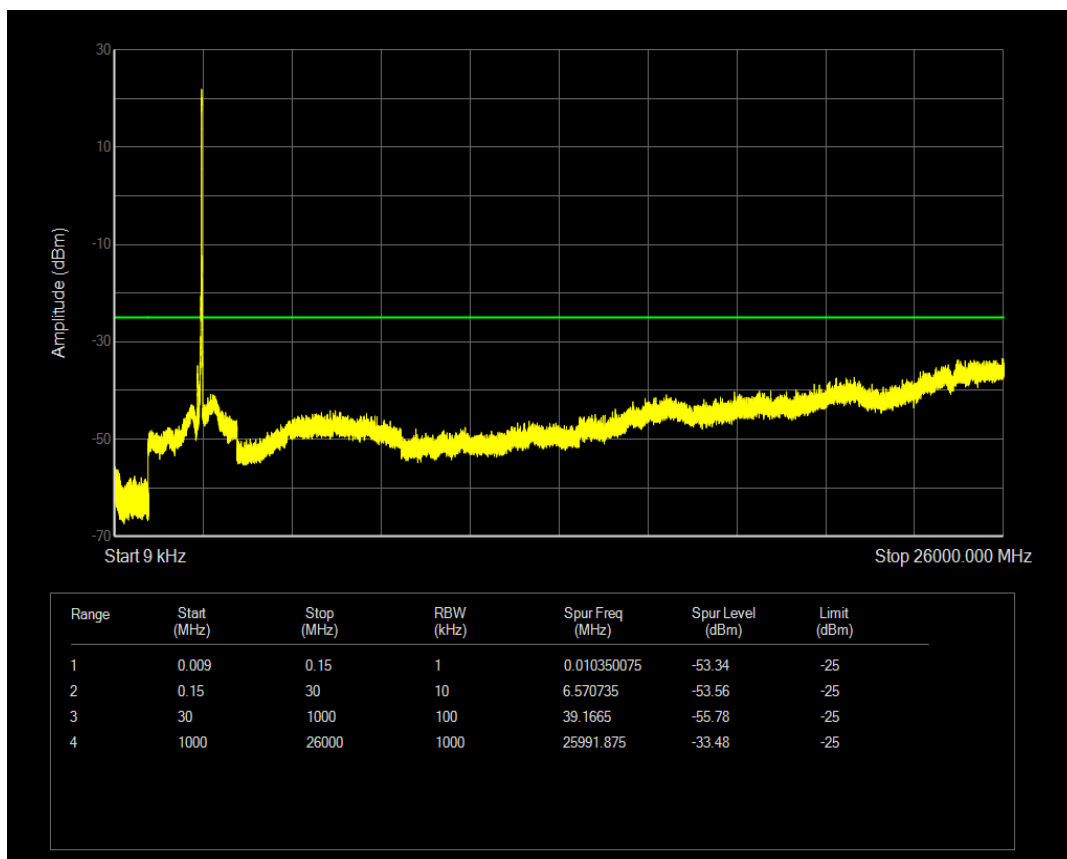


Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0

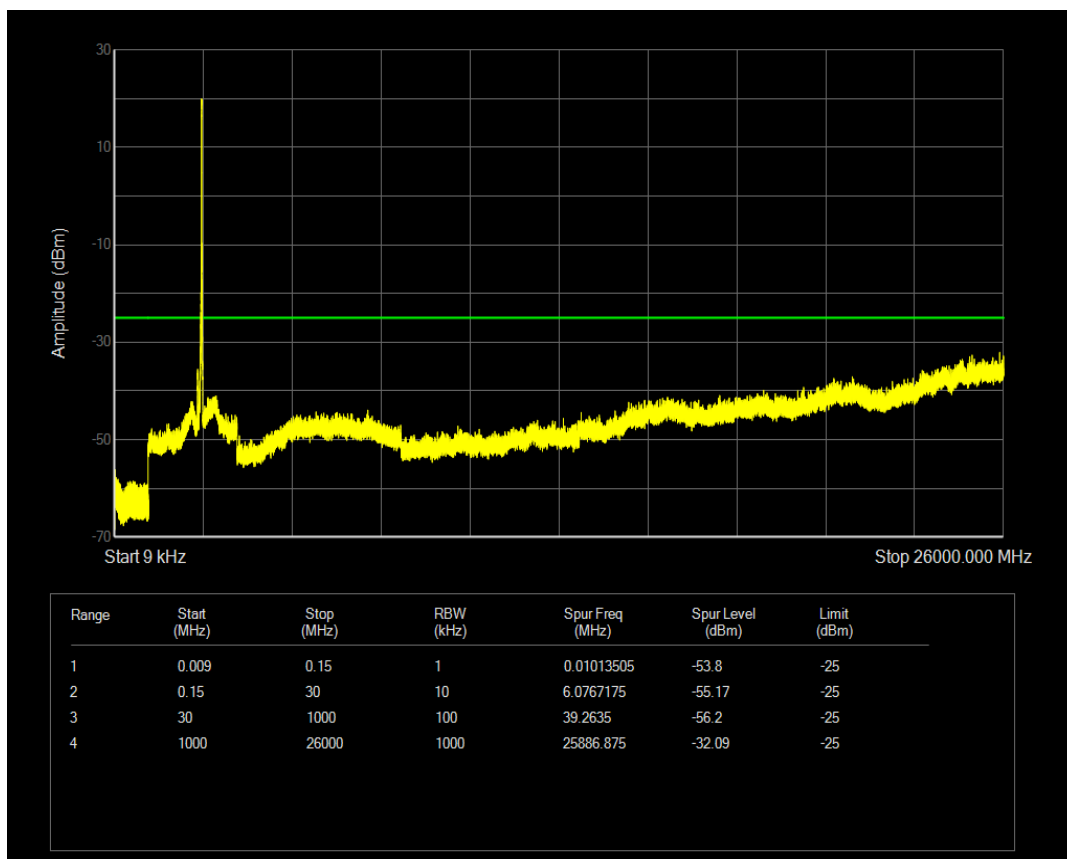




Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

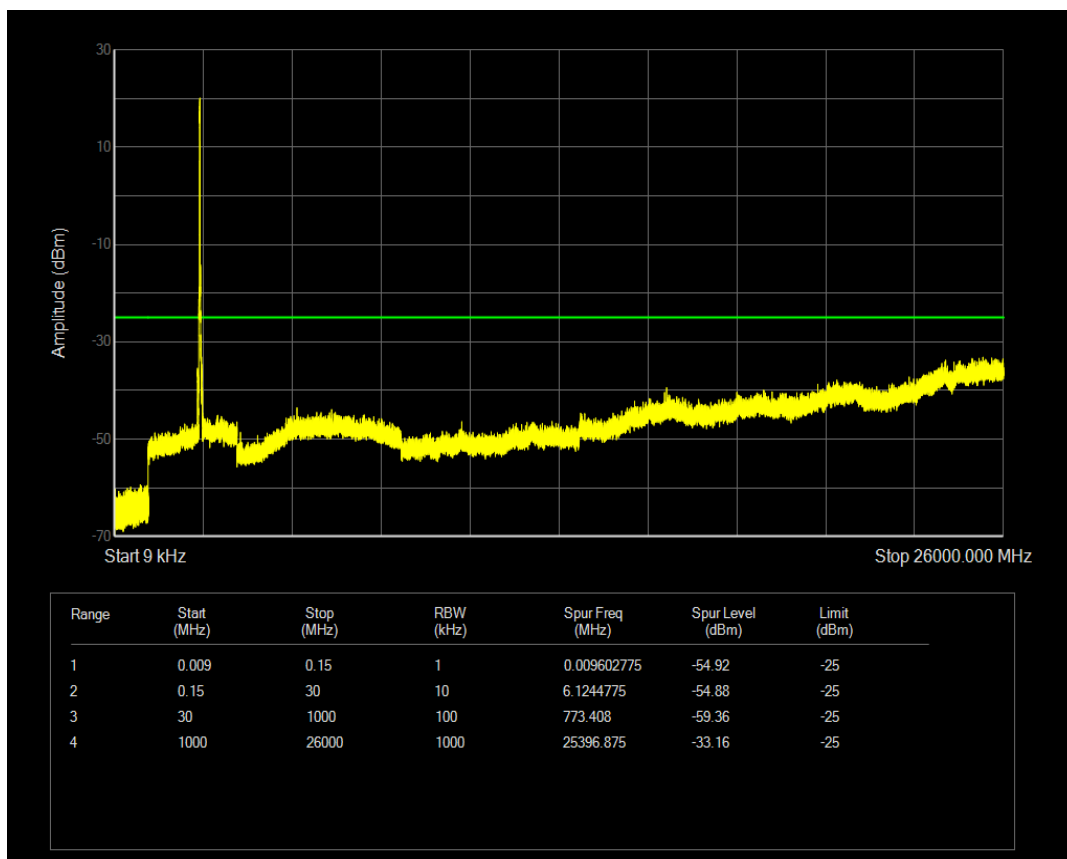


Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0

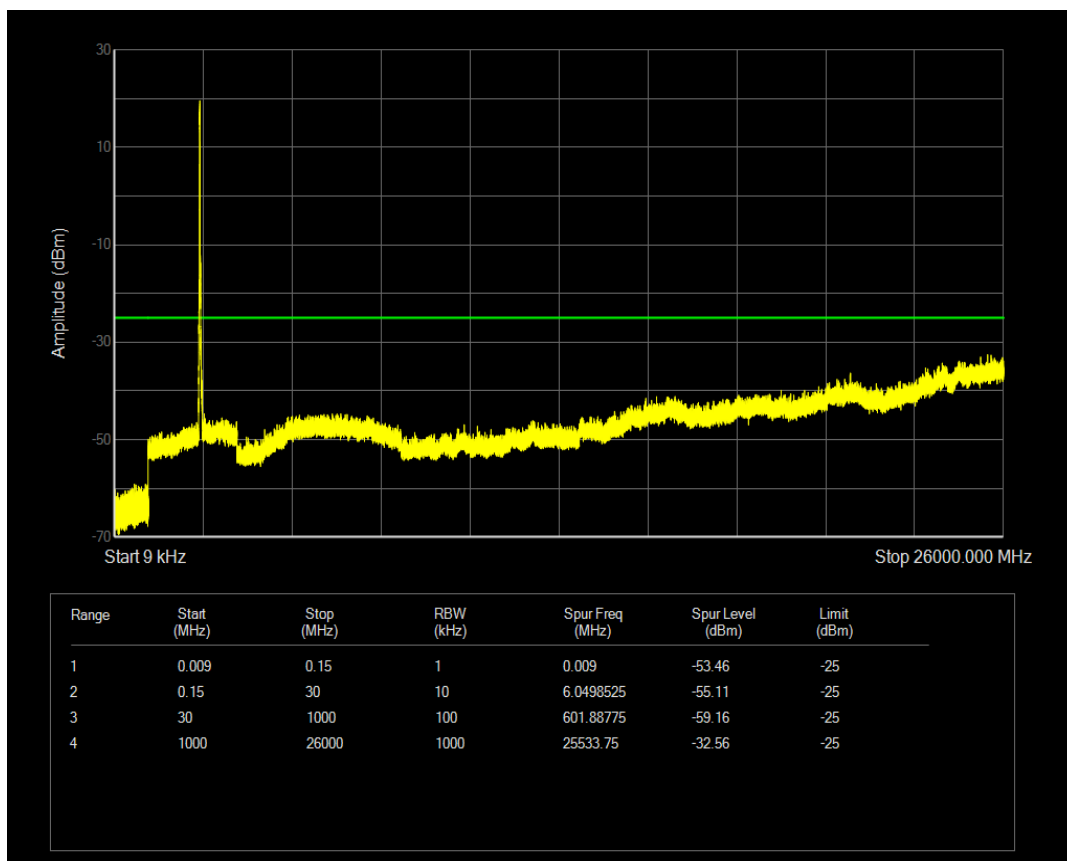




Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0

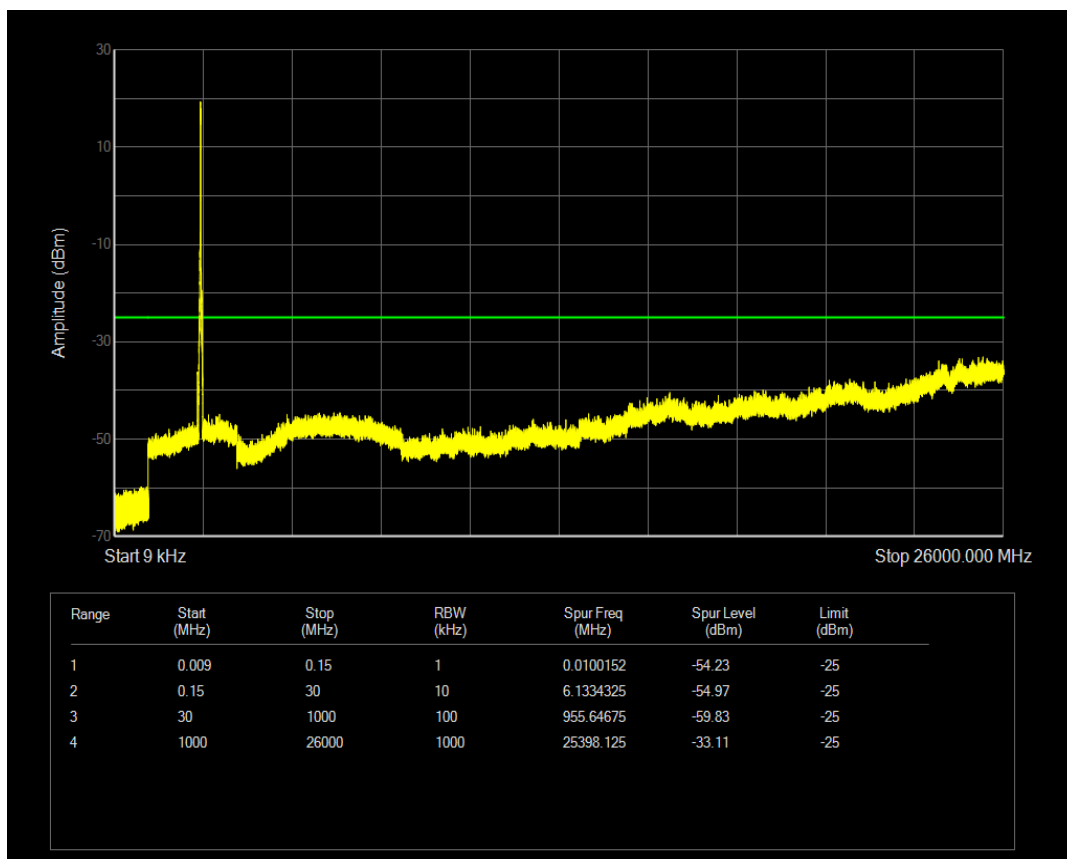


Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0

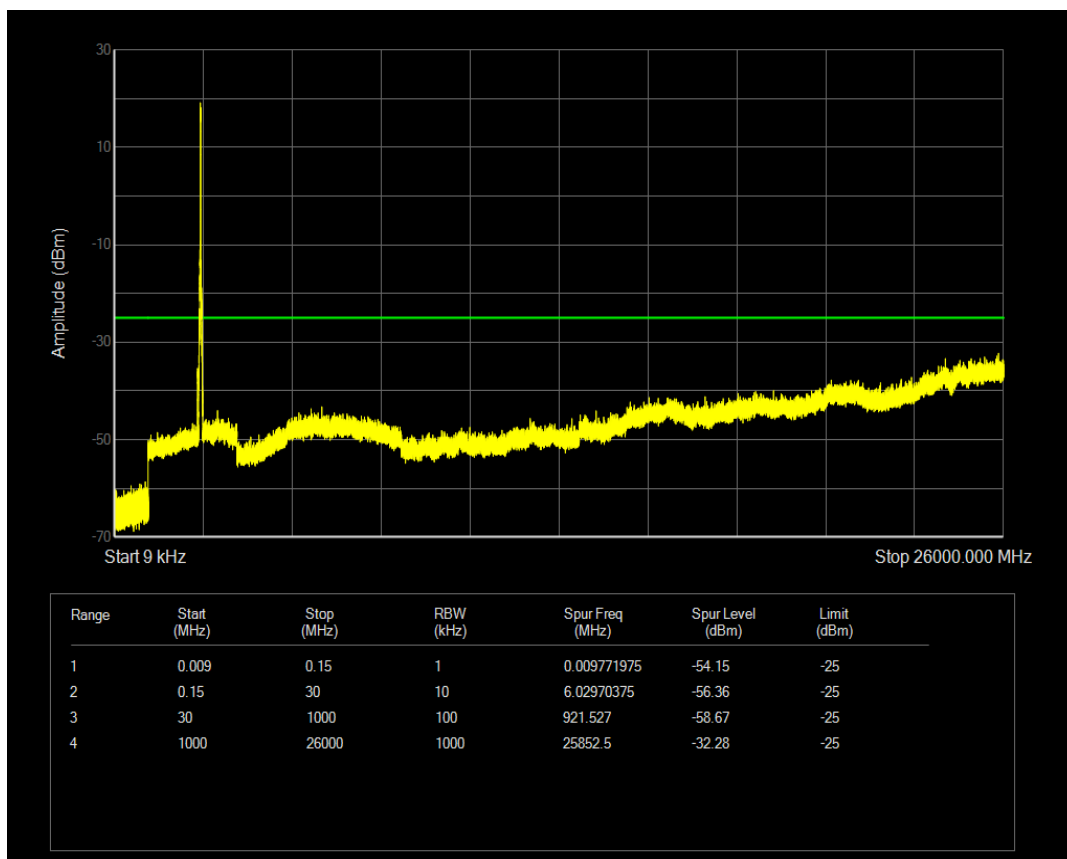




Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0

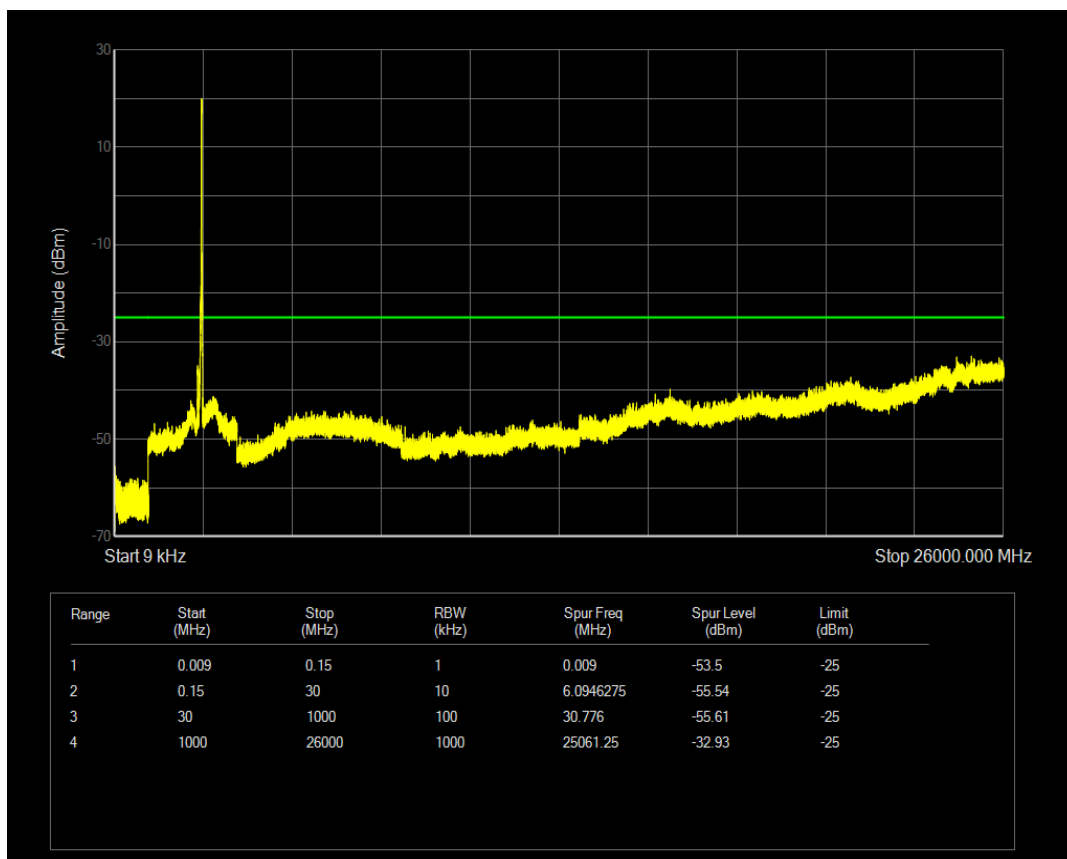


Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0





Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

