

Appendix for Band 5

Report No.: BCTC2506476417-5E

Applicant: Shanghai TUGE Data Technologies Co., Ltd.

Product Name: Smart Car Holder with Charging & WiFi

Test Model: TC10

Tested Date: 2025-06-24 to 2025-07-30

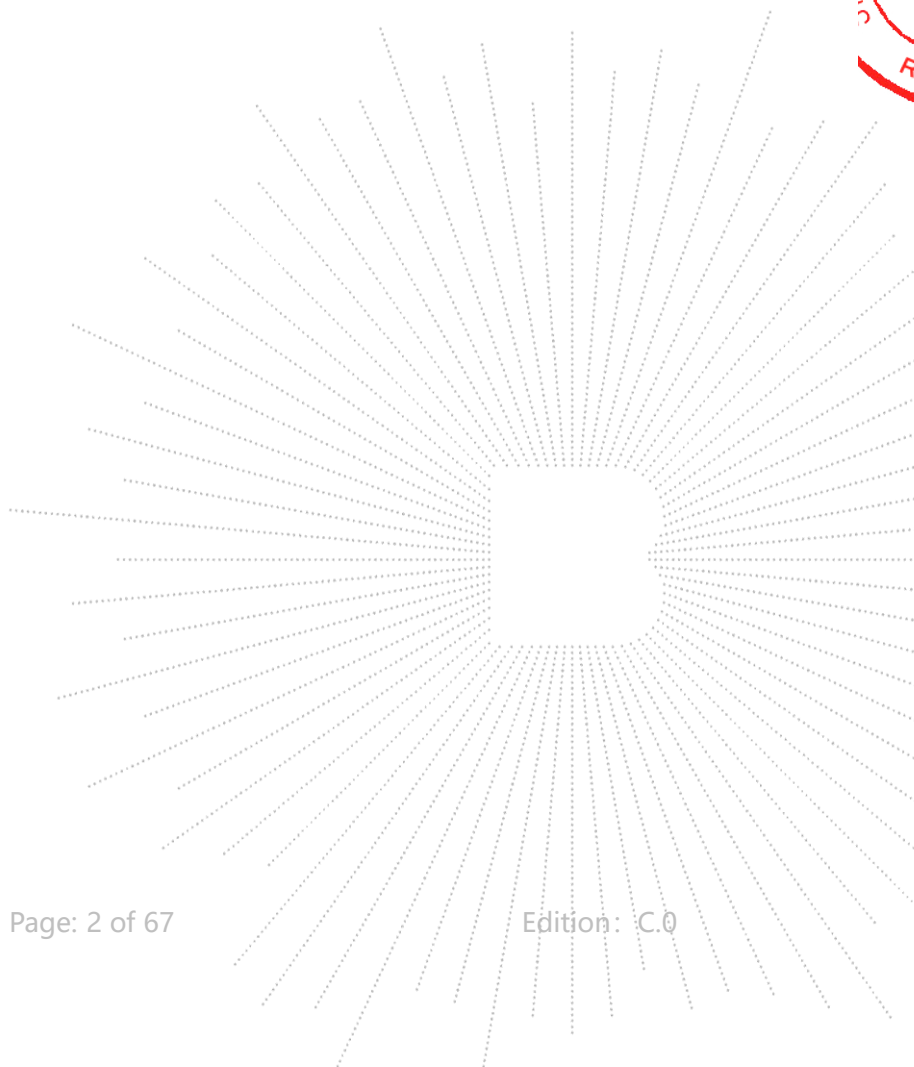
Issued Date: 2025-09-03

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
Band5	1.4	20407	1	#0	QPSK	22.72	PASS
Band5	1.4	20407	1	#Mid	QPSK	22.80	PASS
Band5	1.4	20407	1	#Max	QPSK	22.79	PASS
Band5	1.4	20407	3	#0	QPSK	22.56	PASS
Band5	1.4	20407	3	#Mid	QPSK	22.47	PASS
Band5	1.4	20407	3	#Max	QPSK	22.45	PASS
Band5	1.4	20407	6	#0	QPSK	21.55	PASS
Band5	1.4	20407	1	#0	16QAM	22.64	PASS
Band5	1.4	20407	1	#Mid	16QAM	22.63	PASS
Band5	1.4	20407	1	#Max	16QAM	22.52	PASS
Band5	1.4	20407	3	#0	16QAM	21.83	PASS
Band5	1.4	20407	3	#Mid	16QAM	21.80	PASS
Band5	1.4	20407	3	#Max	16QAM	21.77	PASS
Band5	1.4	20407	6	#0	16QAM	21.04	PASS
Band5	1.4	20525	1	#0	QPSK	22.46	PASS
Band5	1.4	20525	1	#Mid	QPSK	22.43	PASS
Band5	1.4	20525	1	#Max	QPSK	22.37	PASS
Band5	1.4	20525	3	#0	QPSK	22.58	PASS
Band5	1.4	20525	3	#Mid	QPSK	22.47	PASS
Band5	1.4	20525	3	#Max	QPSK	22.57	PASS
Band5	1.4	20525	6	#0	QPSK	21.58	PASS
Band5	1.4	20525	1	#0	16QAM	22.17	PASS
Band5	1.4	20525	1	#Mid	16QAM	21.97	PASS
Band5	1.4	20525	1	#Max	16QAM	22.10	PASS
Band5	1.4	20525	3	#0	16QAM	21.56	PASS
Band5	1.4	20525	3	#Mid	16QAM	21.54	PASS
Band5	1.4	20525	3	#Max	16QAM	21.55	PASS
Band5	1.4	20525	6	#0	16QAM	20.62	PASS
Band5	1.4	20643	1	#0	QPSK	22.56	PASS
Band5	1.4	20643	1	#Mid	QPSK	22.58	PASS
Band5	1.4	20643	1	#Max	QPSK	22.60	PASS
Band5	1.4	20643	3	#0	QPSK	22.60	PASS
Band5	1.4	20643	3	#Mid	QPSK	22.52	PASS
Band5	1.4	20643	3	#Max	QPSK	22.46	PASS
Band5	1.4	20643	6	#0	QPSK	21.83	PASS
Band5	1.4	20643	1	#0	16QAM	22.68	PASS
Band5	1.4	20643	1	#Mid	16QAM	22.86	PASS
Band5	1.4	20643	1	#Max	16QAM	22.89	PASS
Band5	1.4	20643	3	#0	16QAM	22.12	PASS
Band5	1.4	20643	3	#Mid	16QAM	22.24	PASS

Band5	1.4	20643	3	#Max	16QAM	22.33	PASS
Band5	1.4	20643	6	#0	16QAM	20.92	PASS
Band5	3	20415	1	#0	QPSK	22.43	PASS
Band5	3	20415	1	#Mid	QPSK	22.47	PASS
Band5	3	20415	1	#Max	QPSK	22.41	PASS
Band5	3	20415	8	#0	QPSK	21.55	PASS
Band5	3	20415	8	#Mid	QPSK	21.59	PASS
Band5	3	20415	8	#Max	QPSK	21.49	PASS
Band5	3	20415	15	#0	QPSK	21.52	PASS
Band5	3	20415	1	#0	16QAM	22.42	PASS
Band5	3	20415	1	#Mid	16QAM	22.41	PASS
Band5	3	20415	1	#Max	16QAM	22.30	PASS
Band5	3	20415	8	#0	16QAM	20.70	PASS
Band5	3	20415	8	#Mid	16QAM	20.68	PASS
Band5	3	20415	8	#Max	16QAM	20.45	PASS
Band5	3	20415	15	#0	16QAM	20.90	PASS
Band5	3	20525	1	#0	QPSK	22.42	PASS
Band5	3	20525	1	#Mid	QPSK	22.31	PASS
Band5	3	20525	1	#Max	QPSK	22.36	PASS
Band5	3	20525	8	#0	QPSK	21.57	PASS
Band5	3	20525	8	#Mid	QPSK	21.48	PASS
Band5	3	20525	8	#Max	QPSK	21.47	PASS
Band5	3	20525	15	#0	QPSK	21.62	PASS
Band5	3	20525	1	#0	16QAM	22.10	PASS
Band5	3	20525	1	#Mid	16QAM	22.04	PASS
Band5	3	20525	1	#Max	16QAM	22.12	PASS
Band5	3	20525	8	#0	16QAM	20.75	PASS
Band5	3	20525	8	#Mid	16QAM	20.57	PASS
Band5	3	20525	8	#Max	16QAM	20.73	PASS
Band5	3	20525	15	#0	16QAM	20.56	PASS
Band5	3	20635	1	#0	QPSK	22.63	PASS
Band5	3	20635	1	#Mid	QPSK	22.62	PASS
Band5	3	20635	1	#Max	QPSK	22.64	PASS
Band5	3	20635	8	#0	QPSK	21.55	PASS
Band5	3	20635	8	#Mid	QPSK	21.53	PASS
Band5	3	20635	8	#Max	QPSK	21.74	PASS
Band5	3	20635	15	#0	QPSK	21.60	PASS
Band5	3	20635	1	#0	16QAM	22.59	PASS
Band5	3	20635	1	#Mid	16QAM	22.55	PASS
Band5	3	20635	1	#Max	16QAM	22.80	PASS
Band5	3	20635	8	#0	16QAM	20.50	PASS
Band5	3	20635	8	#Mid	16QAM	20.48	PASS
Band5	3	20635	8	#Max	16QAM	20.80	PASS
Band5	3	20635	15	#0	16QAM	20.57	PASS

Band5	5	20425	1	#0	QPSK	22.45	PASS
Band5	5	20425	1	#Mid	QPSK	22.30	PASS
Band5	5	20425	1	#Max	QPSK	22.31	PASS
Band5	5	20425	12	#0	QPSK	21.46	PASS
Band5	5	20425	12	#Mid	QPSK	21.53	PASS
Band5	5	20425	12	#Max	QPSK	21.53	PASS
Band5	5	20425	25	#0	QPSK	21.50	PASS
Band5	5	20425	1	#0	16QAM	21.70	PASS
Band5	5	20425	1	#Mid	16QAM	21.61	PASS
Band5	5	20425	1	#Max	16QAM	21.65	PASS
Band5	5	20425	12	#0	16QAM	20.69	PASS
Band5	5	20425	12	#Mid	16QAM	20.50	PASS
Band5	5	20425	12	#Max	16QAM	20.40	PASS
Band5	5	20425	25	#0	16QAM	20.56	PASS
Band5	5	20525	1	#0	QPSK	22.47	PASS
Band5	5	20525	1	#Mid	QPSK	22.44	PASS
Band5	5	20525	1	#Max	QPSK	22.37	PASS
Band5	5	20525	12	#0	QPSK	21.46	PASS
Band5	5	20525	12	#Mid	QPSK	21.43	PASS
Band5	5	20525	12	#Max	QPSK	21.60	PASS
Band5	5	20525	25	#0	QPSK	21.56	PASS
Band5	5	20525	1	#0	16QAM	21.17	PASS
Band5	5	20525	1	#Mid	16QAM	21.15	PASS
Band5	5	20525	1	#Max	16QAM	21.10	PASS
Band5	5	20525	12	#0	16QAM	20.36	PASS
Band5	5	20525	12	#Mid	16QAM	20.41	PASS
Band5	5	20525	12	#Max	16QAM	20.38	PASS
Band5	5	20525	25	#0	16QAM	20.54	PASS
Band5	5	20625	1	#0	QPSK	22.54	PASS
Band5	5	20625	1	#Mid	QPSK	22.41	PASS
Band5	5	20625	1	#Max	QPSK	22.49	PASS
Band5	5	20625	12	#0	QPSK	21.42	PASS
Band5	5	20625	12	#Mid	QPSK	21.62	PASS
Band5	5	20625	12	#Max	QPSK	21.51	PASS
Band5	5	20625	25	#0	QPSK	21.56	PASS
Band5	5	20625	1	#0	16QAM	21.53	PASS
Band5	5	20625	1	#Mid	16QAM	21.54	PASS
Band5	5	20625	1	#Max	16QAM	21.76	PASS
Band5	5	20625	12	#0	16QAM	20.83	PASS
Band5	5	20625	12	#Mid	16QAM	20.53	PASS
Band5	5	20625	12	#Max	16QAM	20.46	PASS
Band5	5	20625	25	#0	16QAM	20.56	PASS
Band5	10	20450	1	#0	QPSK	22.53	PASS
Band5	10	20450	1	#Mid	QPSK	22.41	PASS

Band5	10	20450	1	#Max	QPSK	22.46	PASS
Band5	10	20450	25	#0	QPSK	21.46	PASS
Band5	10	20450	25	#Mid	QPSK	21.35	PASS
Band5	10	20450	25	#Max	QPSK	21.74	PASS
Band5	10	20450	50	#0	QPSK	21.33	PASS
Band5	10	20450	1	#0	16QAM	22.63	PASS
Band5	10	20450	1	#Mid	16QAM	22.48	PASS
Band5	10	20450	1	#Max	16QAM	22.55	PASS
Band5	10	20450	25	#0	16QAM	20.40	PASS
Band5	10	20450	25	#Mid	16QAM	20.59	PASS
Band5	10	20450	25	#Max	16QAM	20.54	PASS
Band5	10	20450	50	#0	16QAM	20.65	PASS
Band5	10	20525	1	#0	QPSK	22.54	PASS
Band5	10	20525	1	#Mid	QPSK	22.54	PASS
Band5	10	20525	1	#Max	QPSK	22.55	PASS
Band5	10	20525	25	#0	QPSK	21.65	PASS
Band5	10	20525	25	#Mid	QPSK	21.60	PASS
Band5	10	20525	25	#Max	QPSK	21.54	PASS
Band5	10	20525	50	#0	QPSK	21.46	PASS
Band5	10	20525	1	#0	16QAM	21.71	PASS
Band5	10	20525	1	#Mid	16QAM	21.50	PASS
Band5	10	20525	1	#Max	16QAM	21.55	PASS
Band5	10	20525	25	#0	16QAM	20.51	PASS
Band5	10	20525	25	#Mid	16QAM	20.49	PASS
Band5	10	20525	25	#Max	16QAM	20.78	PASS
Band5	10	20525	50	#0	16QAM	20.55	PASS
Band5	10	20600	1	#0	QPSK	22.37	PASS
Band5	10	20600	1	#Mid	QPSK	22.46	PASS
Band5	10	20600	1	#Max	QPSK	22.63	PASS
Band5	10	20600	25	#0	QPSK	21.50	PASS
Band5	10	20600	25	#Mid	QPSK	21.40	PASS
Band5	10	20600	25	#Max	QPSK	21.54	PASS
Band5	10	20600	50	#0	QPSK	21.53	PASS
Band5	10	20600	1	#0	16QAM	21.50	PASS
Band5	10	20600	1	#Mid	16QAM	21.53	PASS
Band5	10	20600	1	#Max	16QAM	21.82	PASS
Band5	10	20600	25	#0	16QAM	20.69	PASS
Band5	10	20600	25	#Mid	16QAM	20.77	PASS
Band5	10	20600	25	#Max	16QAM	20.58	PASS
Band5	10	20600	50	#0	16QAM	20.77	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
Band5	1.4	20407	6	#0	QPSK	LV	NT	-5.64	-0.007	-2.5	2.5	PASS
Band5	1.4	20407	6	#0	QPSK	NV	NT	-8.24	-0.010	-2.5	2.5	PASS
Band5	1.4	20407	6	#0	QPSK	HV	NT	-8.97	-0.011	-2.5	2.5	PASS
Band5	1.4	20407	6	#0	16QAM	LV	NT	-9.14	-0.011	-2.5	2.5	PASS
Band5	1.4	20407	6	#0	16QAM	NV	NT	-8.97	-0.011	-2.5	2.5	PASS
Band5	1.4	20407	6	#0	16QAM	HV	NT	-9.33	-0.011	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	QPSK	LV	NT	1.77	0.002	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	QPSK	NV	NT	-0.37	0.000	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	QPSK	HV	NT	-1.50	-0.002	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	16QAM	LV	NT	-0.31	0.000	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	16QAM	NV	NT	-0.86	-0.001	-2.5	2.5	PASS
Band5	1.4	20525	6	#0	16QAM	HV	NT	-0.83	-0.001	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	QPSK	LV	NT	-2.49	-0.003	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	QPSK	NV	NT	-4.12	-0.005	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	QPSK	HV	NT	-4.09	-0.005	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	16QAM	LV	NT	-4.13	-0.005	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	16QAM	NV	NT	-4.52	-0.005	-2.5	2.5	PASS
Band5	1.4	20643	6	#0	16QAM	HV	NT	-3.92	-0.005	-2.5	2.5	PASS



Ban d5	3	20415	15	#0	QPSK	LV	NT	1.24	0.00 2	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	NT	-2.7 9	-0.0 03	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	HV	NT	-3.8 5	-0.0 05	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	LV	NT	-2.8 2	-0.0 03	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	NT	-2.3 9	-0.0 03	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	HV	NT	-3.0 8	-0.0 04	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	LV	NT	-2.7 5	-0.0 03	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	NT	-3.9 8	-0.0 05	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	HV	NT	-5.1 9	-0.0 06	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	LV	NT	-4.0 6	-0.0 05	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	NT	-3.4 8	-0.0 04	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	HV	NT	-3.9 1	-0.0 05	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	LV	NT	-4.4 5	-0.0 05	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	NT	-7.0 7	-0.0 08	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	HV	NT	-5.9 2	-0.0 07	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	LV	NT	-6.5 7	-0.0 08	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	NT	-6.2 1	-0.0 07	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	HV	NT	-6.3 9	-0.0 08	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	LV	NT	-1.0 4	-0.0 01	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	NT	-3.2 2	-0.0 04	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	HV	NT	-4.1 2	-0.0 05	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	LV	NT	-4.2 1	-0.0 05	-2.5	2.5	PAS S





Ban d5	5	20425	25	#0	16QAM	NV	NT	-3.6 3	-0.0 04	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	HV	NT	-3.9 3	-0.0 05	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	LV	NT	-0.2 7	0.00 0	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	NT	-2.0 2	-0.0 02	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	HV	NT	-2.1 3	-0.0 03	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	LV	NT	-3.0 3	-0.0 04	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	NT	-2.7 5	-0.0 03	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	HV	NT	-3.5 8	-0.0 04	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	LV	NT	-3.0 0	-0.0 04	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	NT	-5.4 4	-0.0 06	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	HV	NT	-6.2 1	-0.0 07	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	LV	NT	-5.7 8	-0.0 07	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	NT	-5.1 5	-0.0 06	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	HV	NT	-5.0 5	-0.0 06	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	LV	NT	-12. 25	-0.0 15	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	NT	-14. 42	-0.0 17	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	HV	NT	-13. 59	-0.0 16	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	LV	NT	-13. 68	-0.0 17	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	NT	-13. 70	-0.0 17	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	HV	NT	-14. 72	-0.0 18	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	LV	NT	-3.9 3	-0.0 05	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	NT	-7.1 4	-0.0 09	-2.5	2.5	PAS S

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Ban d5	10	20525	50	#0	QPSK	HV	NT	-6.7 9	-0.0 08	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	LV	NT	-6.9 2	-0.0 08	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	NT	-7.5 1	-0.0 09	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	HV	NT	-6.9 5	-0.0 08	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	LV	NT	0.04	0.00 0	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	NT	-1.7 5	-0.0 02	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	HV	NT	-1.6 7	-0.0 02	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	LV	NT	-1.2 6	-0.0 01	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	NT	-1.2 2	-0.0 01	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	HV	NT	-1.9 3	-0.0 02	-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 d5	1.4	20407	6	#0	QPSK	NV	-30	5.88	0.00 7	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	-20	0.79	0.00 1	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	0	-1.6 5	-0.0 02	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	10	0.63	0.00 1	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	20	-3.6 9	-0.0 04	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	30	-0.5 7	-0.0 01	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	40	-0.2 4	0.00 0	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	QPSK	NV	50	-0.7 7	-0.0 01	-2.5	2.5	PAS S
Ban	1.4	20407	6	#0	16QAM	NV	-30	-0.4	-0.0	-2.5	2.5	PAS



d5								6	01			S
Ban d5	1.4	20407	6	#0	16QAM	NV	-20	1.85	0.00 2	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	0	2.27	0.00 3	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	10	2.13	0.00 3	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	20	4.48	0.00 5	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	30	6.02	0.00 7	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	40	8.20	0.01 0	-2.5	2.5	PAS S
Ban d5	1.4	20407	6	#0	16QAM	NV	50	9.96	0.01 2	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	-30	14.0 9	0.01 7	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	-20	14.1 9	0.01 7	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	0	13.8 5	0.01 7	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	10	12.7 9	0.01 5	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	20	14.7 5	0.01 8	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	30	16.4 2	0.02 0	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	40	17.8 8	0.02 1	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	QPSK	NV	50	14.1 9	0.01 7	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	-30	15.5 8	0.01 9	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	-20	16.2 5	0.01 9	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	0	17.1 7	0.02 1	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	10	20.1 6	0.02 4	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	20	21.7 4	0.02 6	-2.5	2.5	PAS S
Ban d5	1.4	20525	6	#0	16QAM	NV	30	24.0 6	0.02 9	-2.5	2.5	PAS S
Ban	1.4	20525	6	#0	16QAM	NV	40	25.4	0.03	-2.5	2.5	PAS

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d5								2	0			S
Ban d5	1.4	20525	6	#0	16QAM	NV	50	31.6 0	0.03 8	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	-30	29.1 7	0.03 4	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	-20	32.6 2	0.03 8	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	0	28.4 5	0.03 4	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	10	30.1 7	0.03 6	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	20	31.0 6	0.03 7	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	30	30.5 8	0.03 6	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	40	28.0 2	0.03 3	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	QPSK	NV	50	26.5 9	0.03 1	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	-30	27.7 8	0.03 3	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	-20	28.7 7	0.03 4	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	0	29.3 1	0.03 5	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	10	32.6 2	0.03 8	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	20	35.6 1	0.04 2	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	30	34.1 3	0.04 0	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	40	32.2 0	0.03 8	-2.5	2.5	PAS S
Ban d5	1.4	20643	6	#0	16QAM	NV	50	36.8 1	0.04 3	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	-30	40.8 3	0.04 9	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	-20	34.5 3	0.04 2	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	0	32.6 7	0.04 0	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	10	31.3 4	0.03 8	-2.5	2.5	PAS S
Ban	3	20415	15	#0	QPSK	NV	20	32.4	0.03	-2.5	2.5	PAS



d5								2	9			S
Ban d5	3	20415	15	#0	QPSK	NV	30	31.2 1	0.03 8	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	40	29.4 5	0.03 6	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	QPSK	NV	50	28.8 1	0.03 5	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	-30	28.1 4	0.03 4	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	-20	30.1 3	0.03 6	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	0	31.7 1	0.03 8	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	10	34.2 9	0.04 2	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	20	32.8 2	0.04 0	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	30	32.7 4	0.04 0	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	40	31.1 4	0.03 8	-2.5	2.5	PAS S
Ban d5	3	20415	15	#0	16QAM	NV	50	35.2 8	0.04 3	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	-30	37.2 6	0.04 5	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	-20	36.0 8	0.04 3	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	0	37.6 7	0.04 5	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	10	37.1 2	0.04 4	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	20	35.4 8	0.04 2	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	30	36.4 8	0.04 4	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	40	34.6 0	0.04 1	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	QPSK	NV	50	33.6 9	0.04 0	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	-30	30.7 1	0.03 7	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	-20	29.6 0	0.03 5	-2.5	2.5	PAS S
Ban	3	20525	15	#0	16QAM	NV	0	31.3	0.03	-2.5	2.5	PAS

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d5								4	7			S
Ban d5	3	20525	15	#0	16QAM	NV	10	30.18	0.036	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	20	31.76	0.038	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	30	33.59	0.040	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	40	31.33	0.037	-2.5	2.5	PAS S
Ban d5	3	20525	15	#0	16QAM	NV	50	34.29	0.041	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	-30	35.41	0.042	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	-20	37.32	0.044	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	0	34.83	0.041	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	10	35.66	0.042	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	20	33.42	0.039	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	30	31.14	0.037	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	40	30.10	0.036	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	QPSK	NV	50	29.87	0.035	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	-30	25.21	0.030	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	-20	23.16	0.027	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	0	23.50	0.028	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	10	22.80	0.027	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	20	24.69	0.029	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	30	23.75	0.028	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	40	18.91	0.022	-2.5	2.5	PAS S
Ban d5	3	20635	15	#0	16QAM	NV	50	23.73	0.028	-2.5	2.5	PAS S
Ban	5	20425	25	#0	QPSK	NV	-30	42.0	0.05	-2.5	2.5	PAS



d5								9	1			S
Ban d5	5	20425	25	#0	QPSK	NV	-20	34.5 9	0.04 2	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	0	29.3 3	0.03 5	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	10	27.9 5	0.03 4	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	20	29.0 8	0.03 5	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	30	25.1 8	0.03 0	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	40	20.1 7	0.02 4	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	QPSK	NV	50	21.9 9	0.02 7	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	-30	19.1 3	0.02 3	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	-20	21.6 4	0.02 6	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	0	20.6 4	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	10	19.3 7	0.02 3	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	20	17.4 4	0.02 1	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	30	20.6 7	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	40	20.9 9	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20425	25	#0	16QAM	NV	50	22.4 9	0.02 7	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	-30	23.4 7	0.02 8	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	-20	21.2 7	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	0	22.2 3	0.02 7	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	10	21.2 9	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	20	18.1 7	0.02 2	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	QPSK	NV	30	17.3 7	0.02 1	-2.5	2.5	PAS S
Ban	5	20525	25	#0	QPSK	NV	40	18.2	0.02	-2.5	2.5	PAS



d5								4	2			S
Ban d5	5	20525	25	#0	QPSK	NV	50	13.6 0	0.01 6	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	-30	12.6 0	0.01 5	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	-20	12.6 6	0.01 5	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	0	14.9 9	0.01 8	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	10	13.9 6	0.01 7	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	20	18.8 7	0.02 3	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	30	15.0 1	0.01 8	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	40	15.6 2	0.01 9	-2.5	2.5	PAS S
Ban d5	5	20525	25	#0	16QAM	NV	50	18.9 1	0.02 3	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	-30	21.7 6	0.02 6	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	-20	20.8 1	0.02 5	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	0	19.8 1	0.02 3	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	10	17.1 2	0.02 0	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	20	14.6 2	0.01 7	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	30	12.7 2	0.01 5	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	40	12.3 0	0.01 5	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	QPSK	NV	50	10.3 1	0.01 2	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	-30	6.94 8	0.00	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	-20	10.0 1	0.01 2	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	0	12.9 6	0.01 5	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	10	13.3 0	0.01 6	-2.5	2.5	PAS S
Ban	5	20625	25	#0	16QAM	NV	20	12.5	0.01	-2.5	2.5	PAS



d5								3	5			S
Ban d5	5	20625	25	#0	16QAM	NV	30	12.86	0.015	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	40	14.20	0.017	-2.5	2.5	PAS S
Ban d5	5	20625	25	#0	16QAM	NV	50	13.38	0.016	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	-30	25.51	0.031	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	-20	11.50	0.014	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	0	4.56	0.006	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	10	2.09	0.003	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	20	-0.70	-0.001	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	30	-3.18	-0.004	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	40	-8.80	-0.011	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	QPSK	NV	50	-13.63	-0.016	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	-30	-15.88	-0.019	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	-20	-16.67	-0.020	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	0	-18.15	-0.022	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	10	-19.13	-0.023	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	20	-19.48	-0.023	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	30	-20.70	-0.025	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	40	-17.25	-0.021	-2.5	2.5	PAS S
Ban d5	10	20450	50	#0	16QAM	NV	50	-15.31	-0.018	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	-30	-14.96	-0.018	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	-20	-20.81	-0.025	-2.5	2.5	PAS S
Ban	10	20525	50	#0	QPSK	NV	0	-19.	-0.0	-2.5	2.5	PAS

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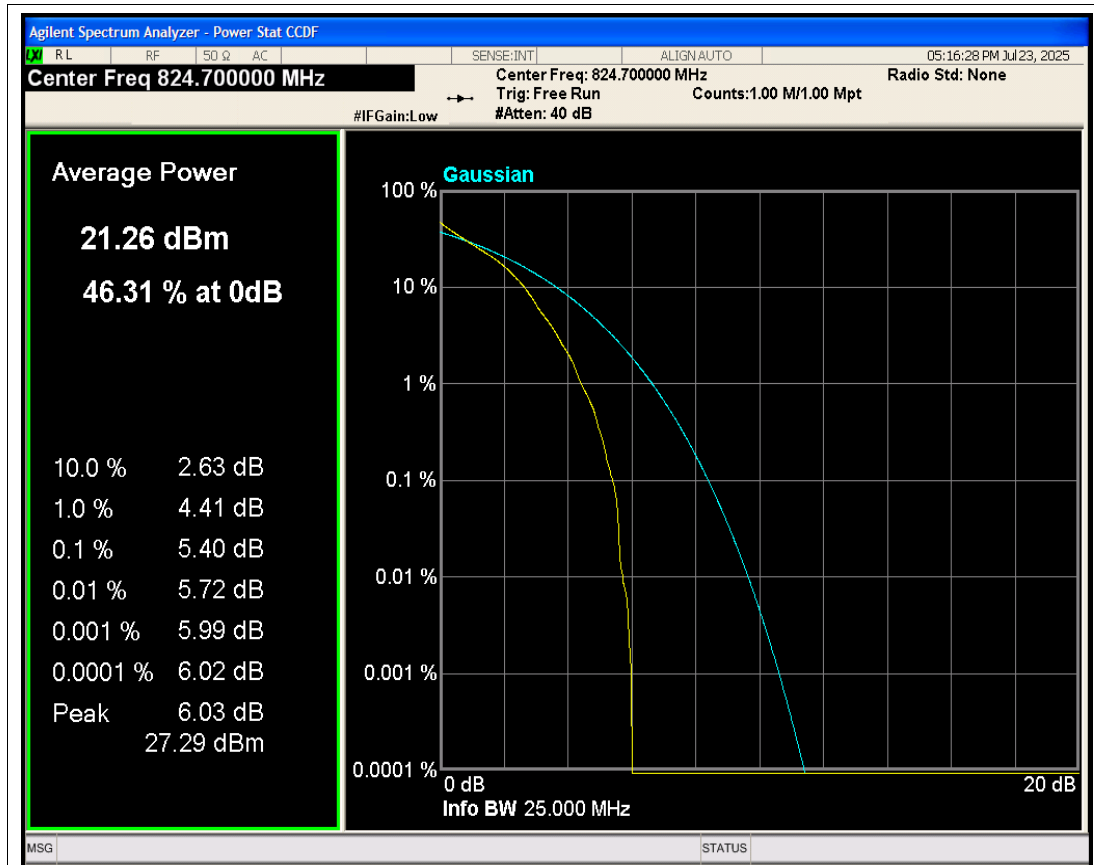
d5								43	23			S
Ban d5	10	20525	50	#0	QPSK	NV	10	-23.66	-0.028	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	20	-28.02	-0.033	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	30	-31.93	-0.038	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	40	-36.21	-0.043	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	QPSK	NV	50	-40.87	-0.049	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	-30	-45.79	-0.055	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	-20	-46.63	-0.056	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	0	-48.37	-0.058	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	10	-48.72	-0.058	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	20	-49.21	-0.059	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	30	-47.56	-0.057	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	40	-46.91	-0.056	-2.5	2.5	PAS S
Ban d5	10	20525	50	#0	16QAM	NV	50	-46.49	-0.056	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	-30	-43.62	-0.052	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	-20	-46.78	-0.055	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	0	-46.96	-0.056	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	10	-31.59	-0.037	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	20	-2.33	-0.003	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	30	-8.40	-0.010	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	40	-12.55	-0.015	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	QPSK	NV	50	-12.72	-0.015	-2.5	2.5	PAS S
Ban	10	20600	50	#0	16QAM	NV	-30	-19.	-0.0	-2.5	2.5	PAS

d5								15	23			S
Ban d5	10	20600	50	#0	16QAM	NV	-20	-19. 01	-0.0 23	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	0	-19. 05	-0.0 23	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	10	-17. 61	-0.0 21	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	20	-17. 68	-0.0 21	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	30	-16. 89	-0.0 20	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	40	-16. 78	-0.0 20	-2.5	2.5	PAS S
Ban d5	10	20600	50	#0	16QAM	NV	50	-13. 86	-0.0 16	-2.5	2.5	PAS S

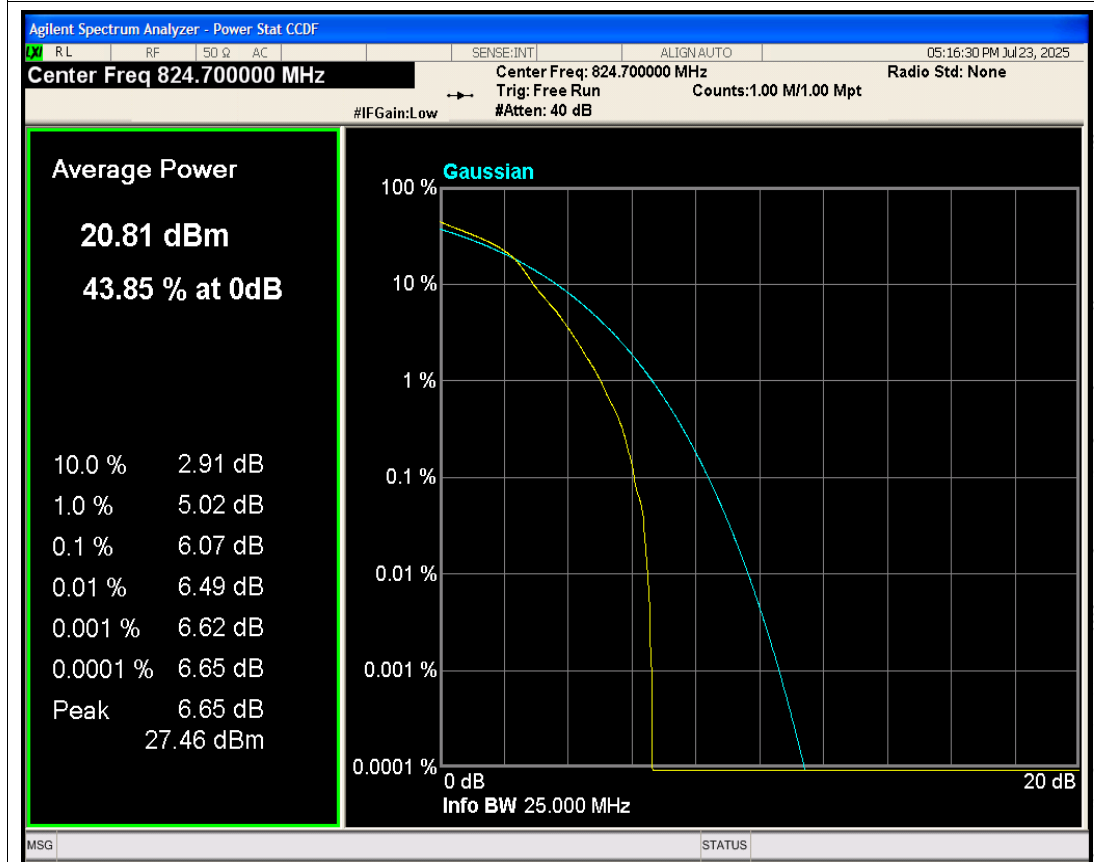


Appendix 3. Peak-to-Average Ratio

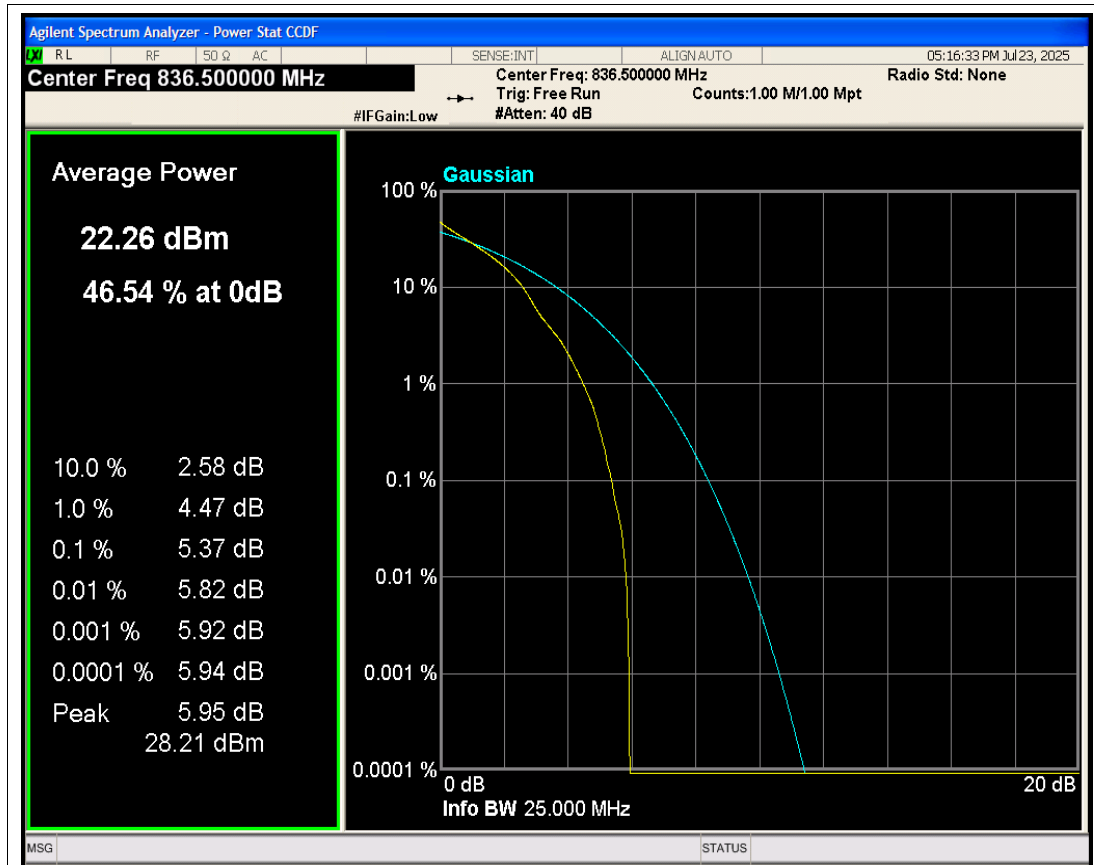
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band5	1.4	20407	1	#0	QPSK	5.40	13	PASS
Band5	1.4	20407	1	#0	16QAM	6.07	13	PASS
Band5	1.4	20525	1	#0	QPSK	5.37	13	PASS
Band5	1.4	20525	1	#0	16QAM	6.26	13	PASS
Band5	1.4	20643	1	#0	QPSK	4.79	13	PASS
Band5	1.4	20643	1	#0	16QAM	5.60	13	PASS
Band5	3	20415	1	#0	QPSK	5.34	13	PASS
Band5	3	20415	1	#0	16QAM	6.37	13	PASS
Band5	3	20525	1	#0	QPSK	5.46	13	PASS
Band5	3	20525	1	#0	16QAM	6.11	13	PASS
Band5	3	20635	1	#0	QPSK	4.73	13	PASS
Band5	3	20635	1	#0	16QAM	5.56	13	PASS
Band5	5	20425	1	#0	QPSK	5.62	13	PASS
Band5	5	20425	1	#0	16QAM	6.14	13	PASS
Band5	5	20525	1	#0	QPSK	5.36	13	PASS
Band5	5	20525	1	#0	16QAM	5.89	13	PASS
Band5	5	20625	1	#0	QPSK	5.32	13	PASS
Band5	5	20625	1	#0	16QAM	6.20	13	PASS
Band5	10	20450	1	#0	QPSK	5.27	13	PASS
Band5	10	20450	1	#0	16QAM	6.14	13	PASS
Band5	10	20525	1	#0	QPSK	5.26	13	PASS
Band5	10	20525	1	#0	16QAM	6.21	13	PASS
Band5	10	20600	1	#0	QPSK	5.14	13	PASS
Band5	10	20600	1	#0	16QAM	5.87	13	PASS



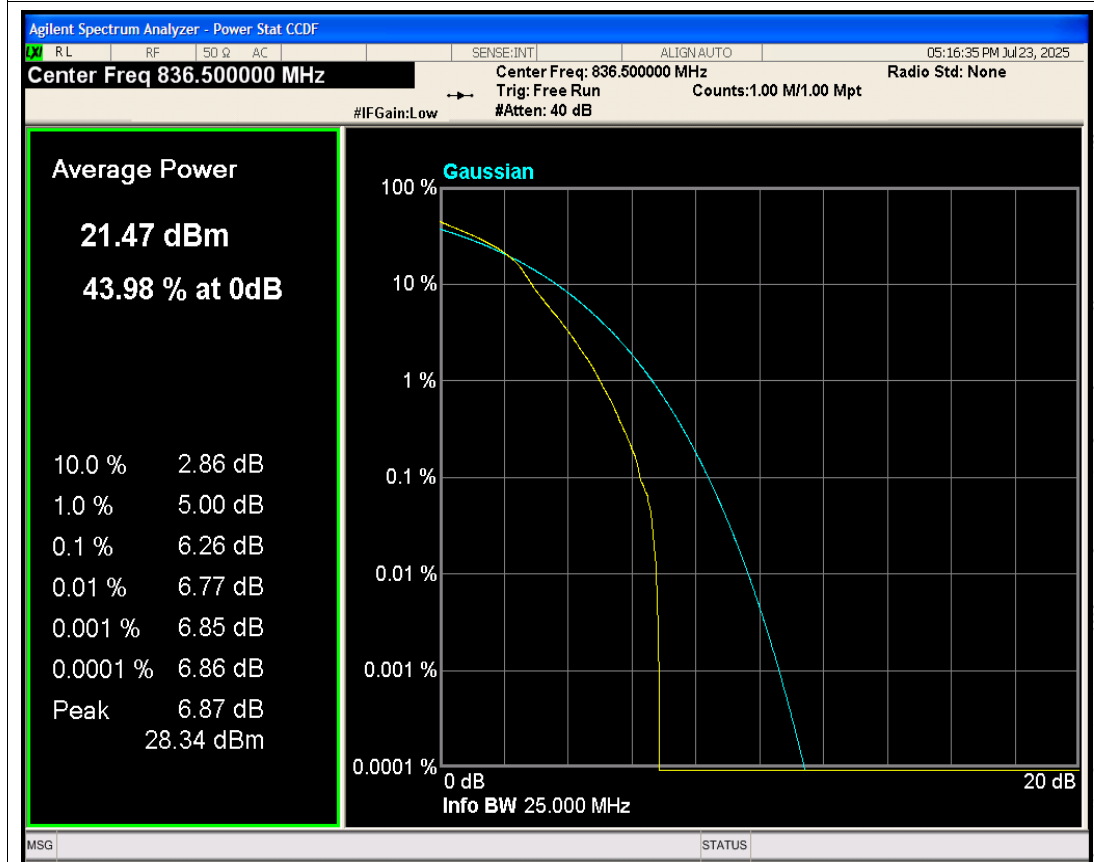
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0 NVNT



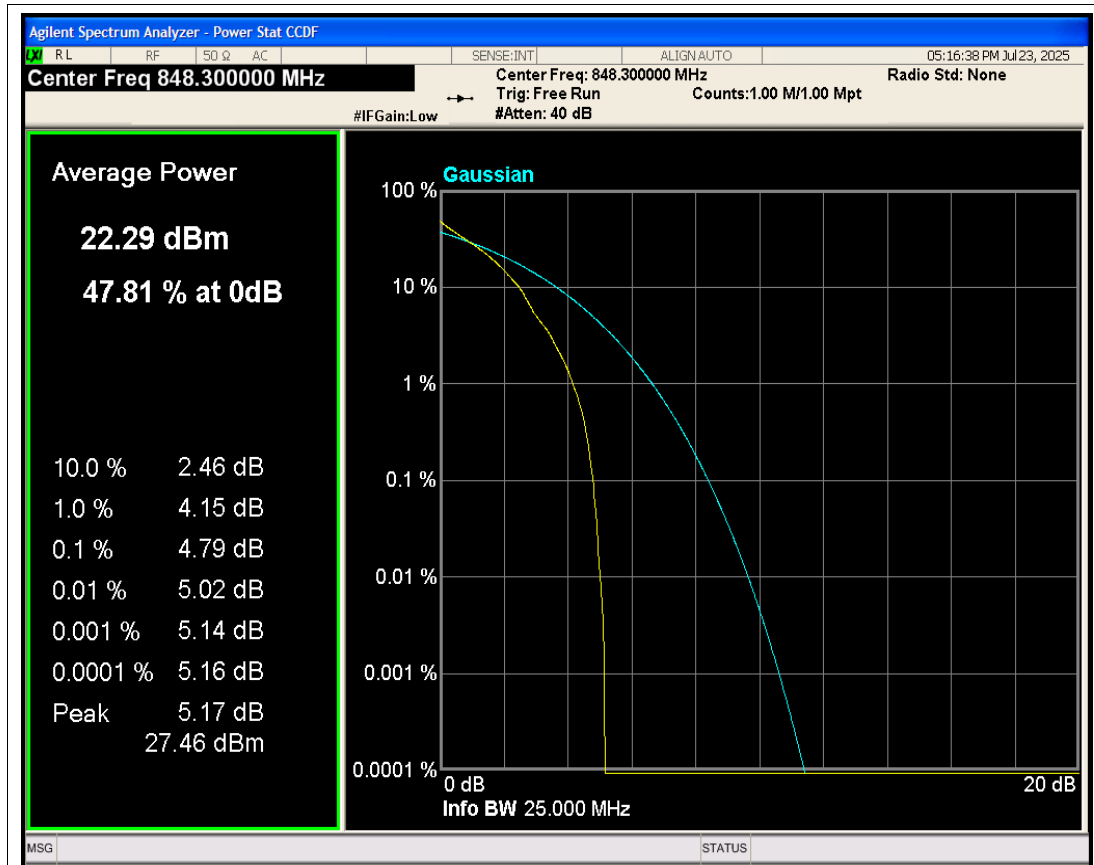
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0 NVNT



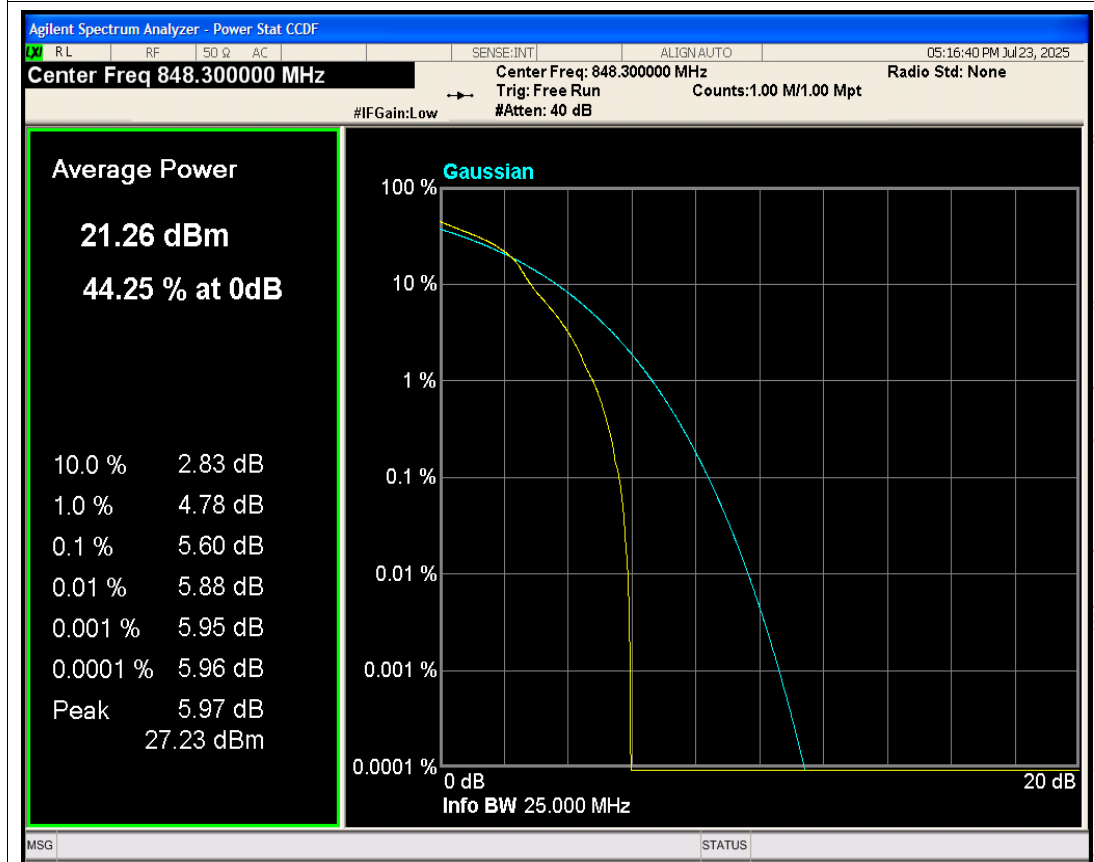
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0 NVNT



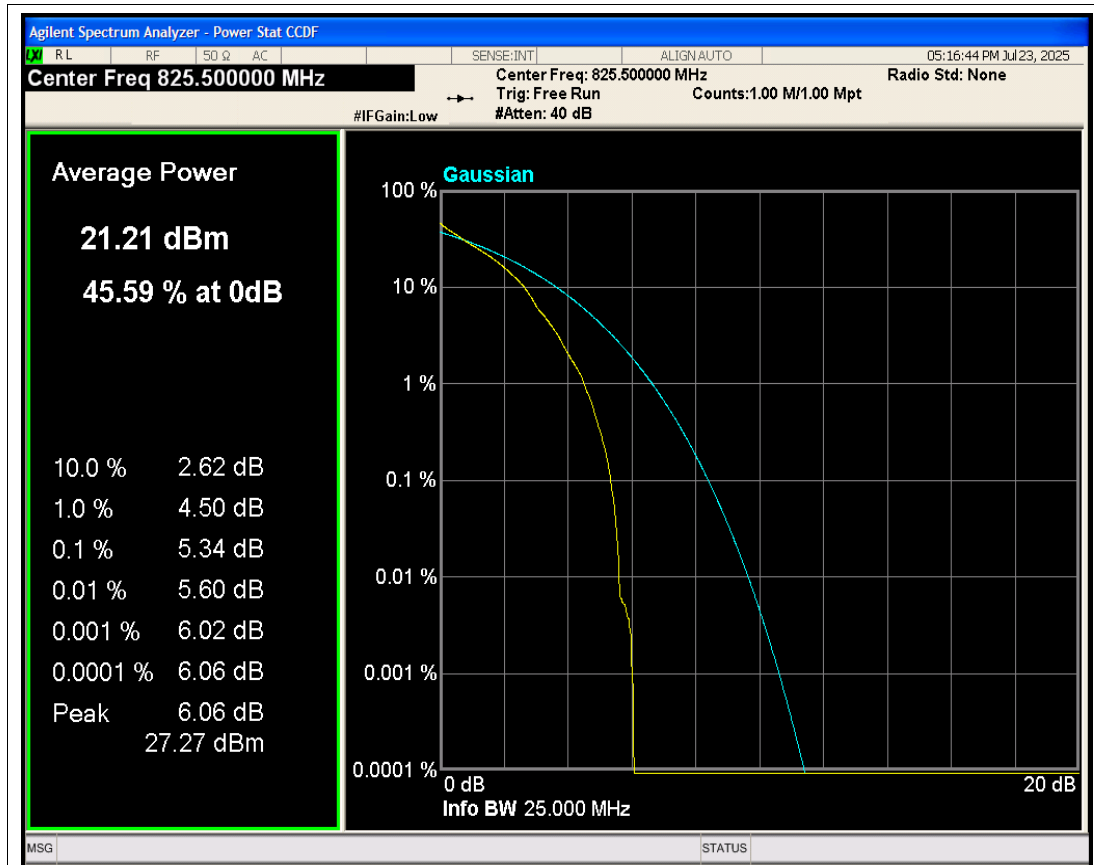
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0 NVNT



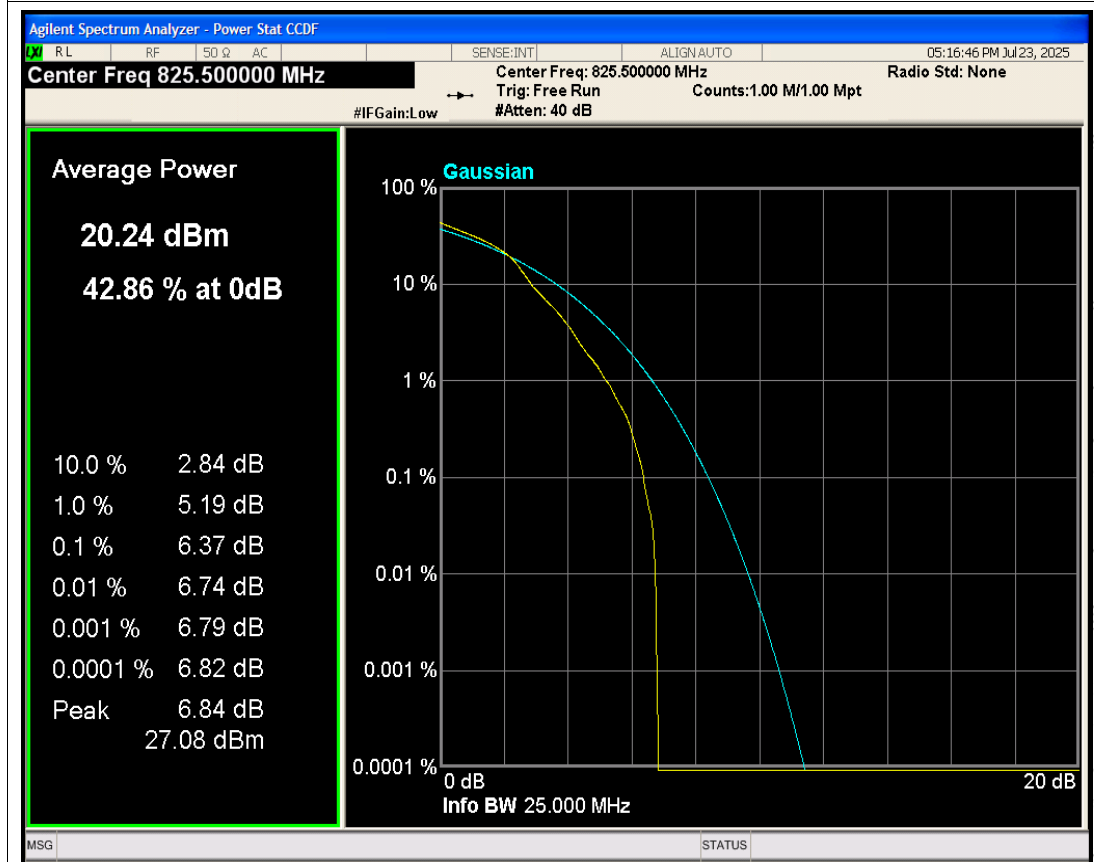
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0 NVNT



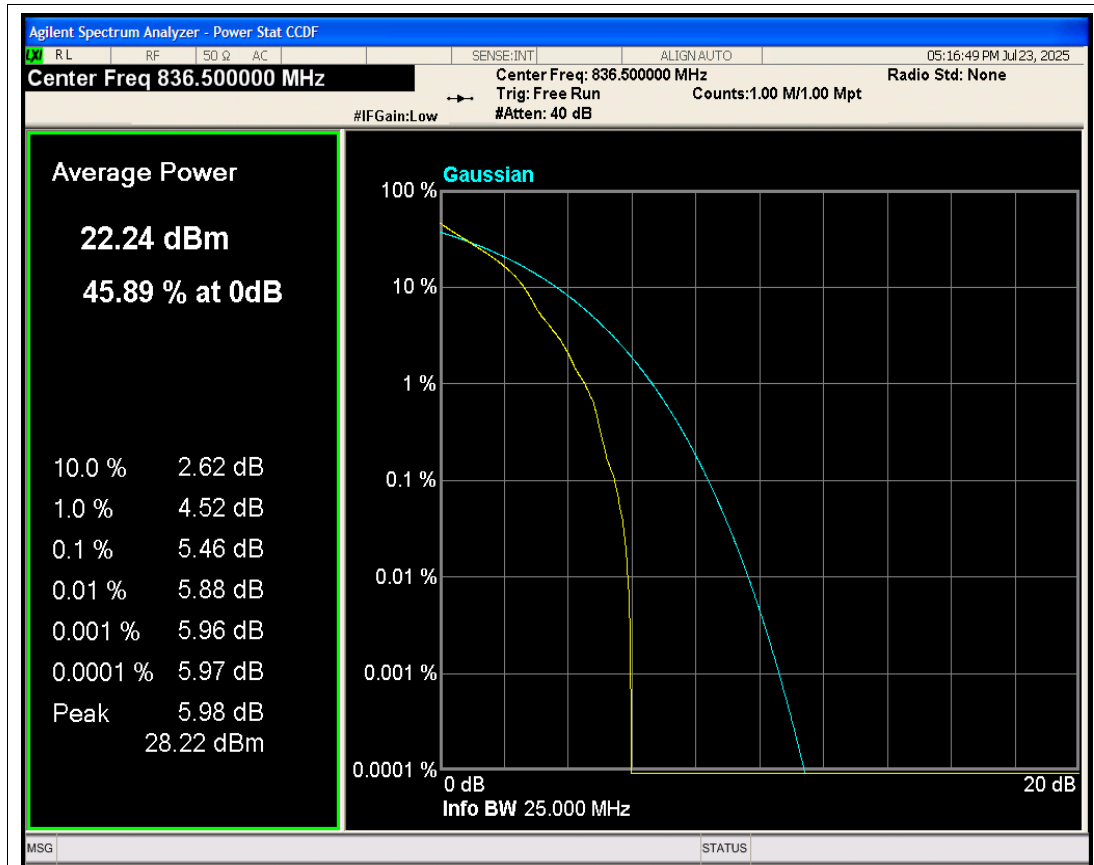
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0 NVNT



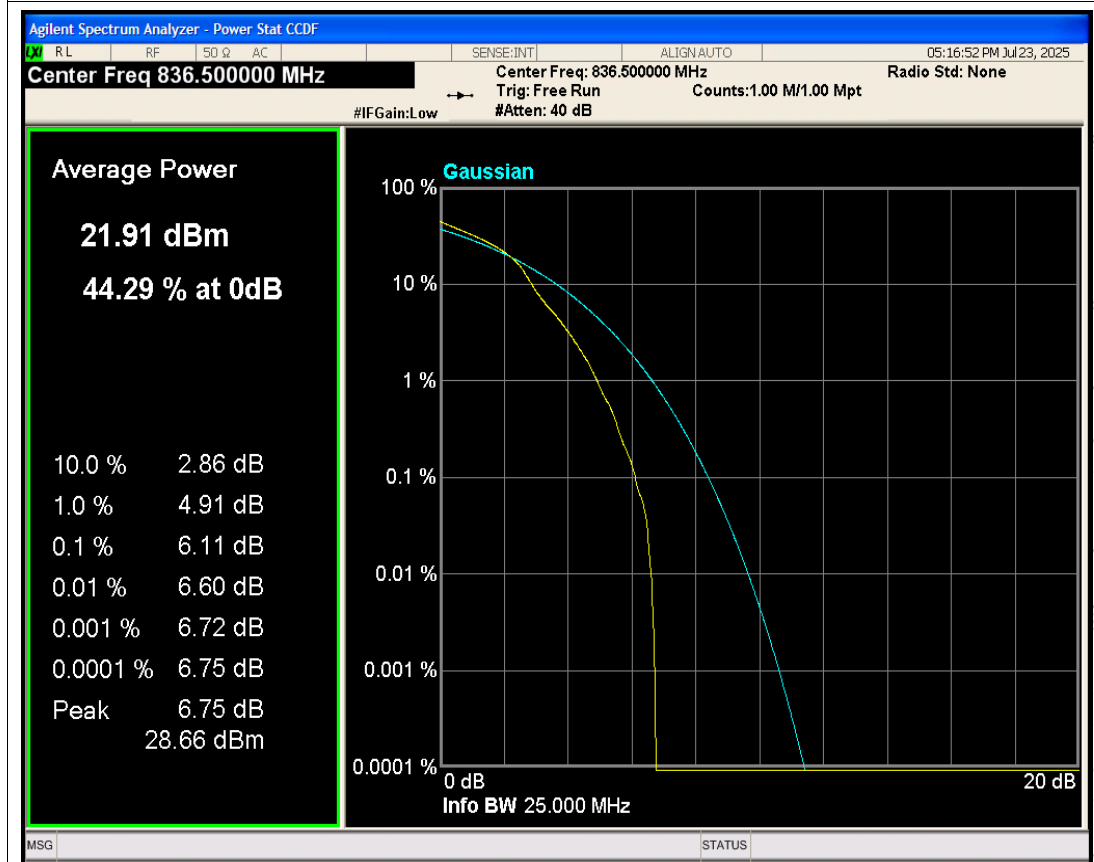
Band5 QPSK BW=3MHz Channel=20415 RB Size=1 Position=#0 NVNT



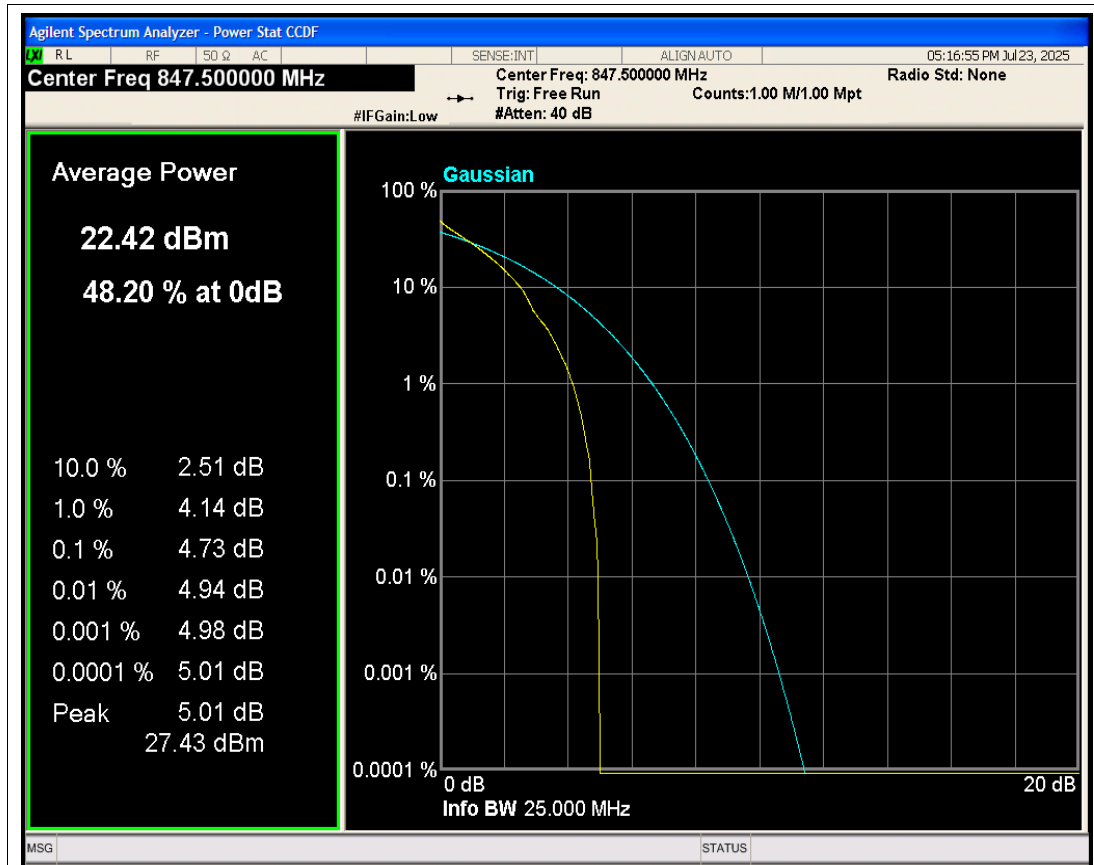
Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0 NVNT



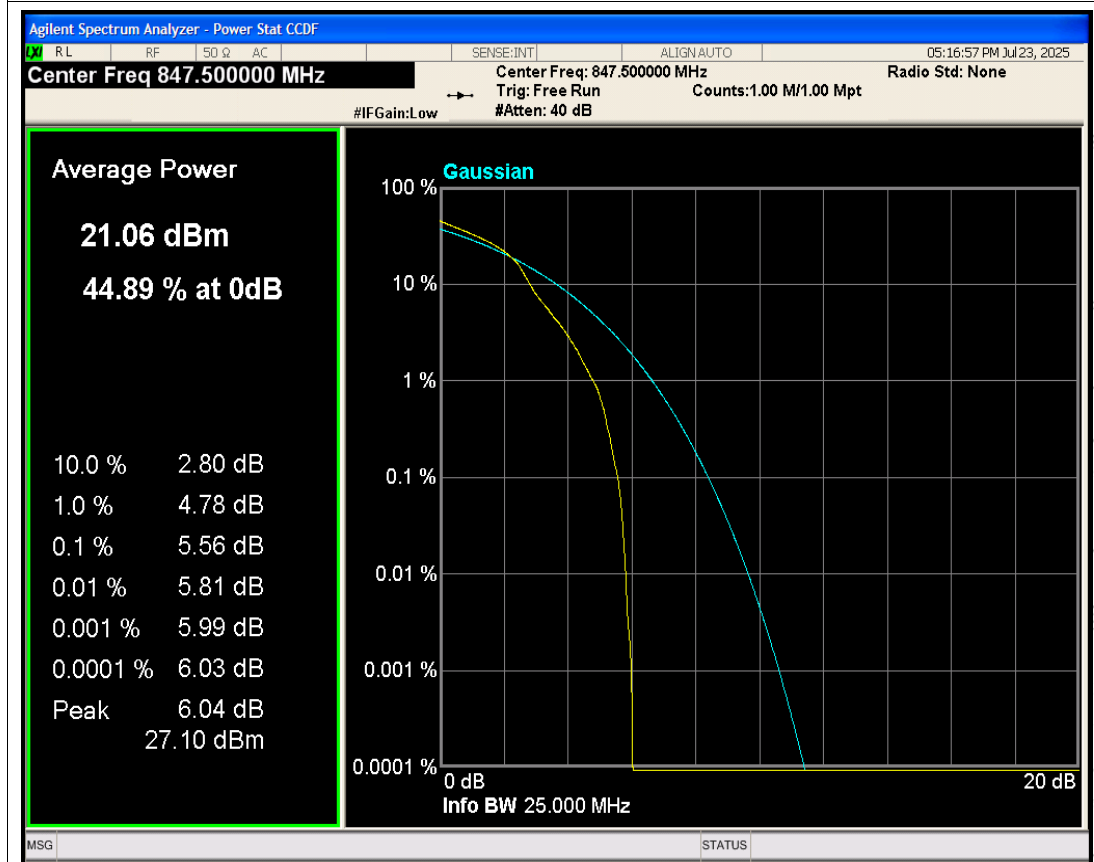
Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0 NVNT



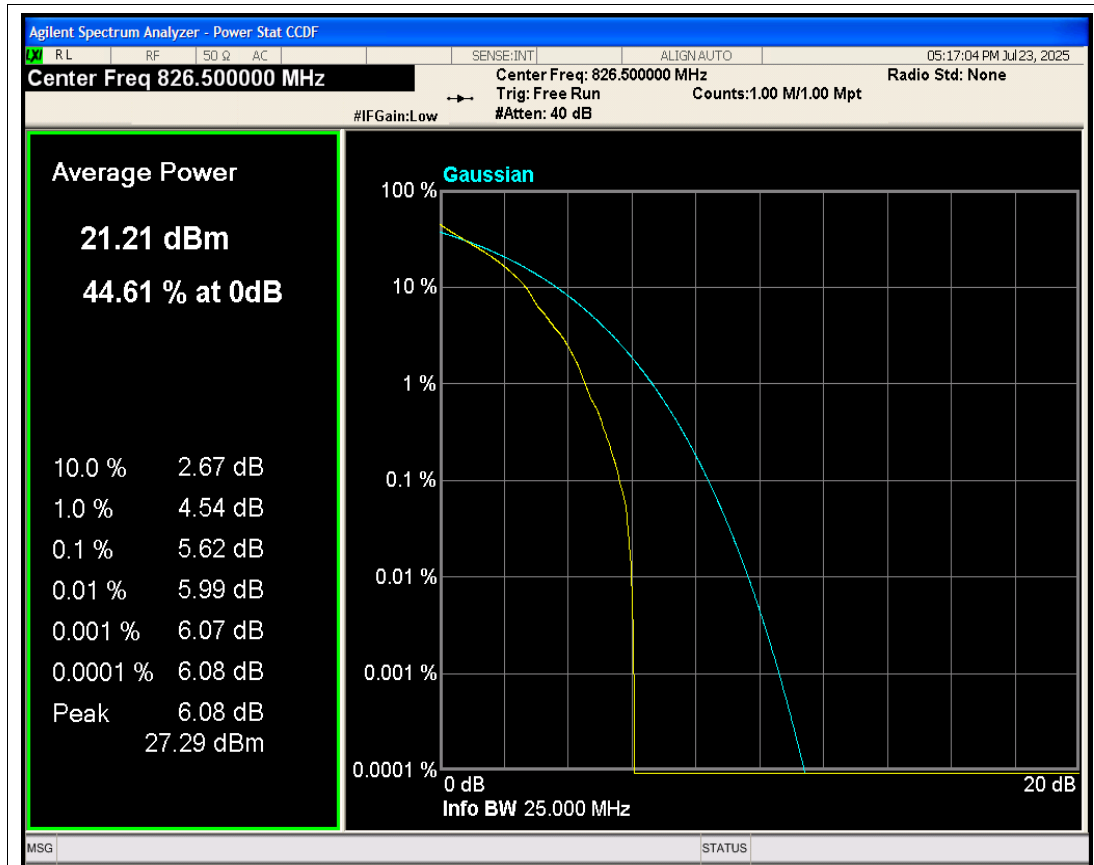
Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0 NVNT



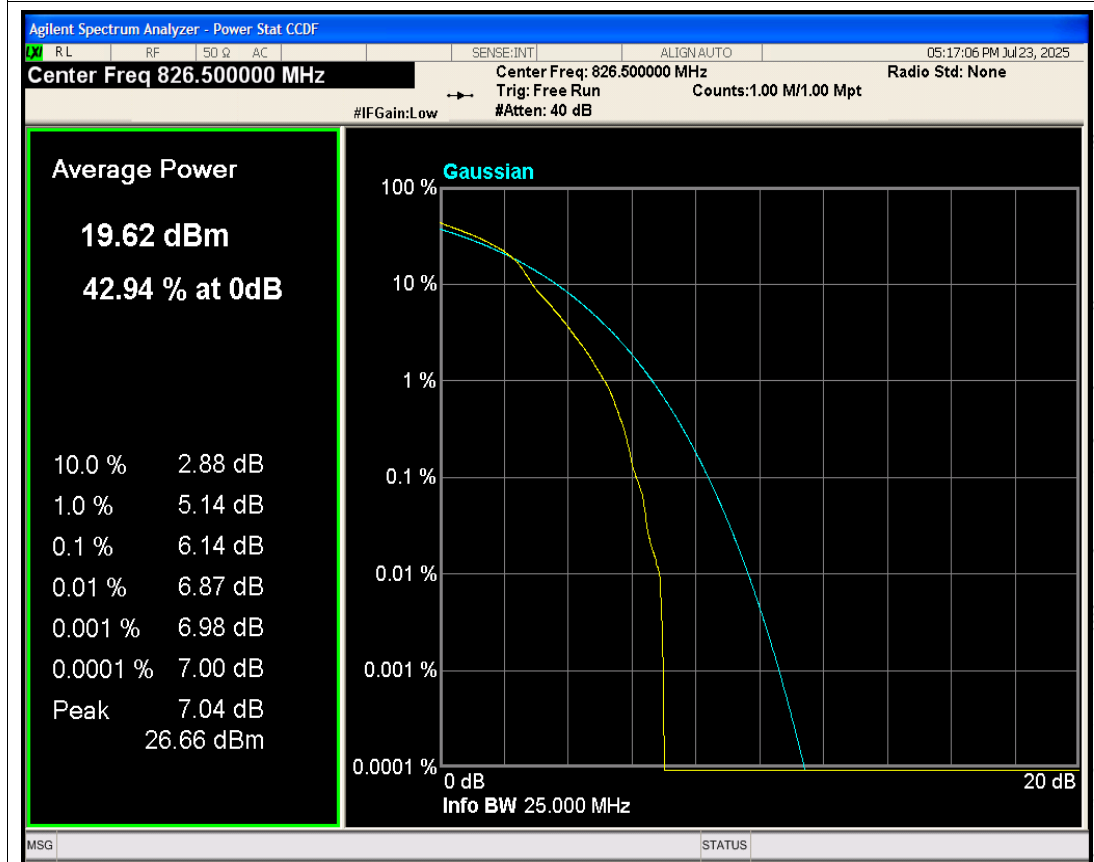
Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0 NVNT



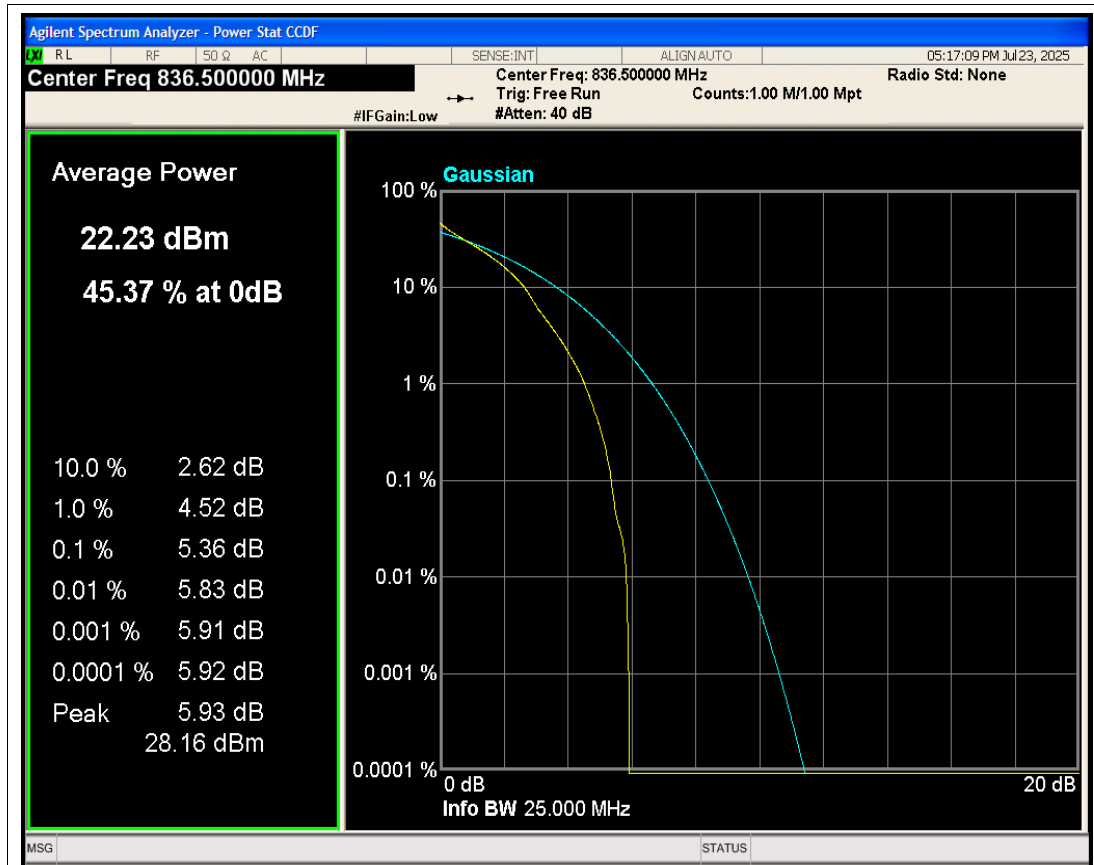
Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0 NVNT



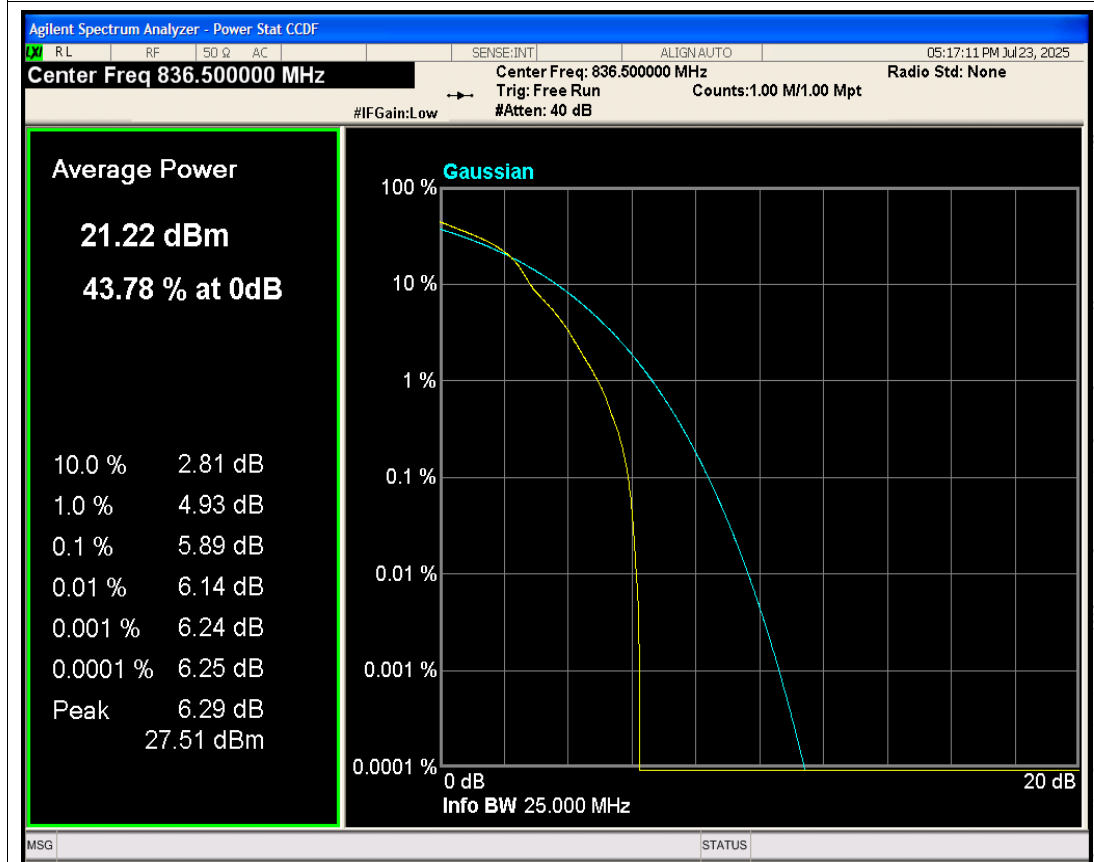
Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0 NVNT



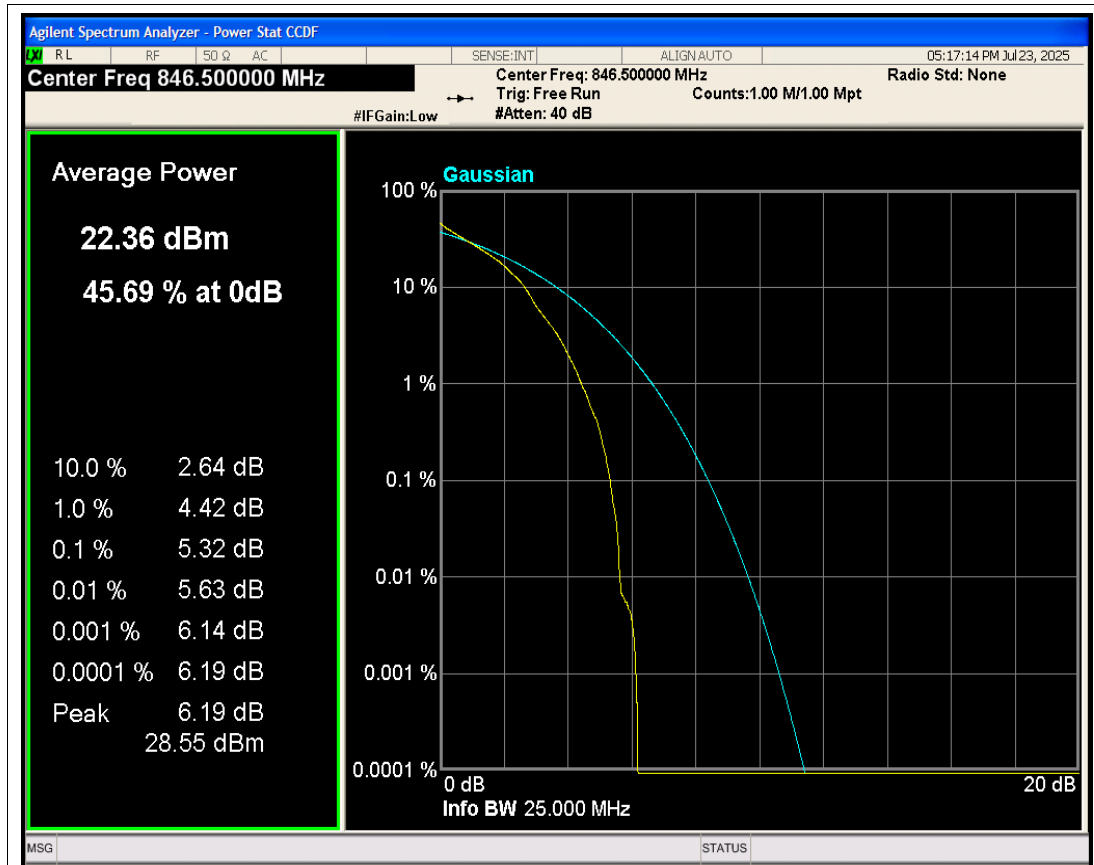
Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0 NVNT



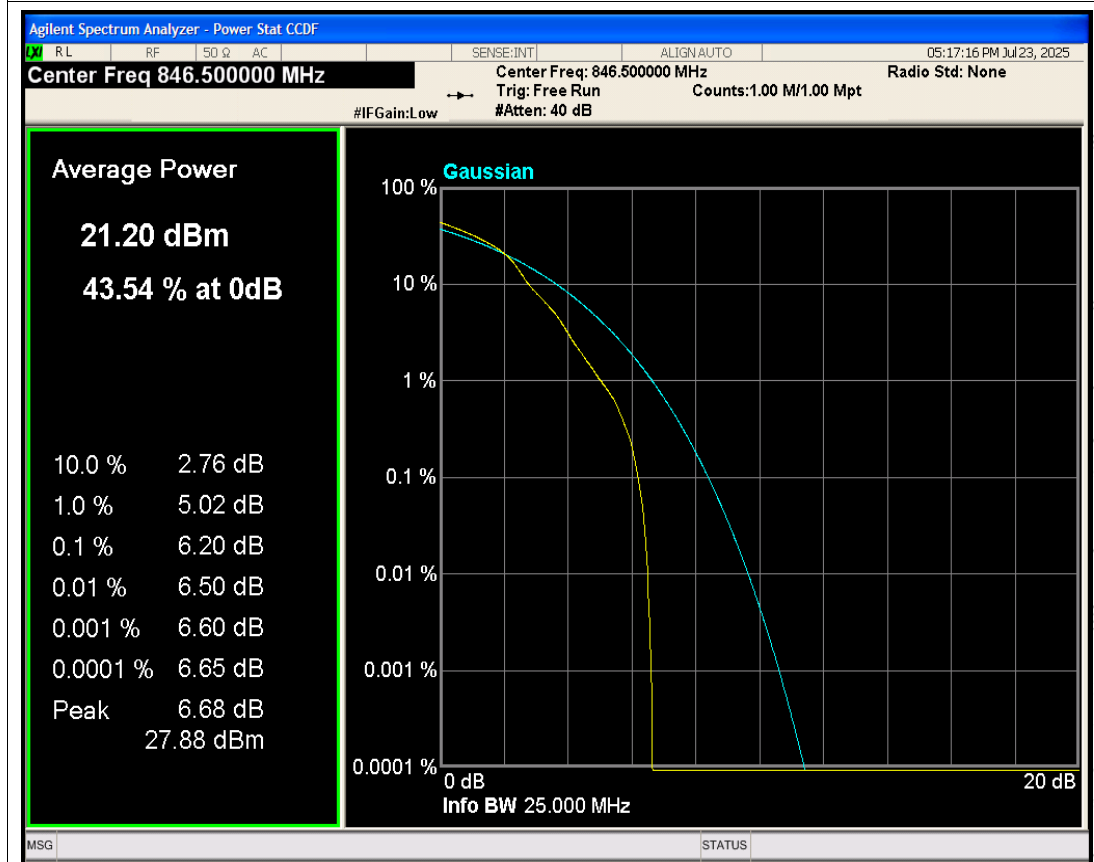
Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0 NVNT



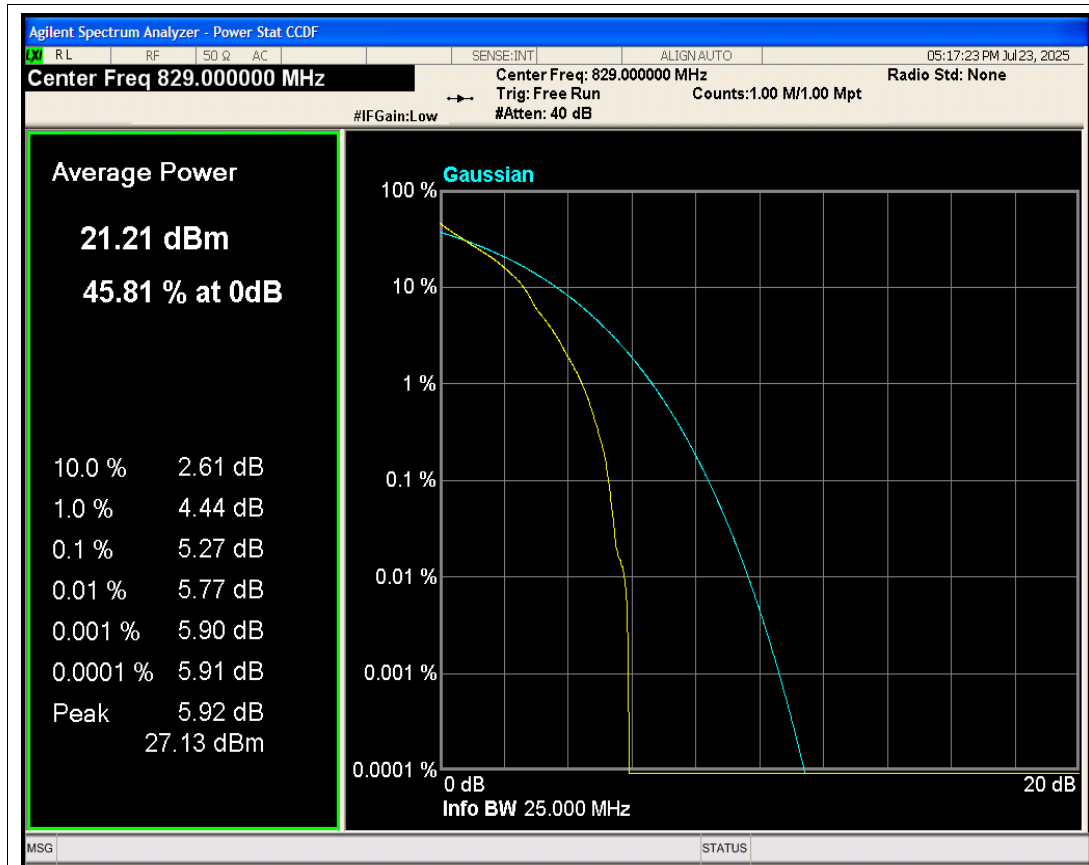
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0 NVNT



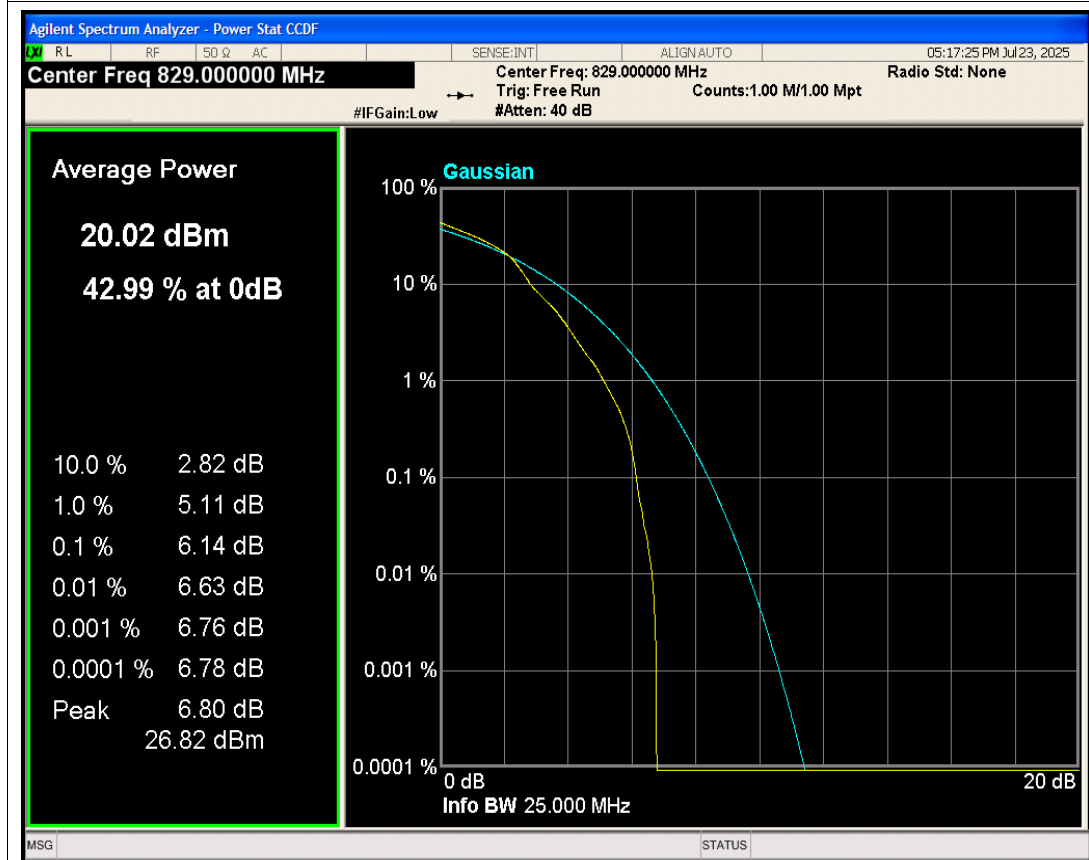
Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0 NVNT



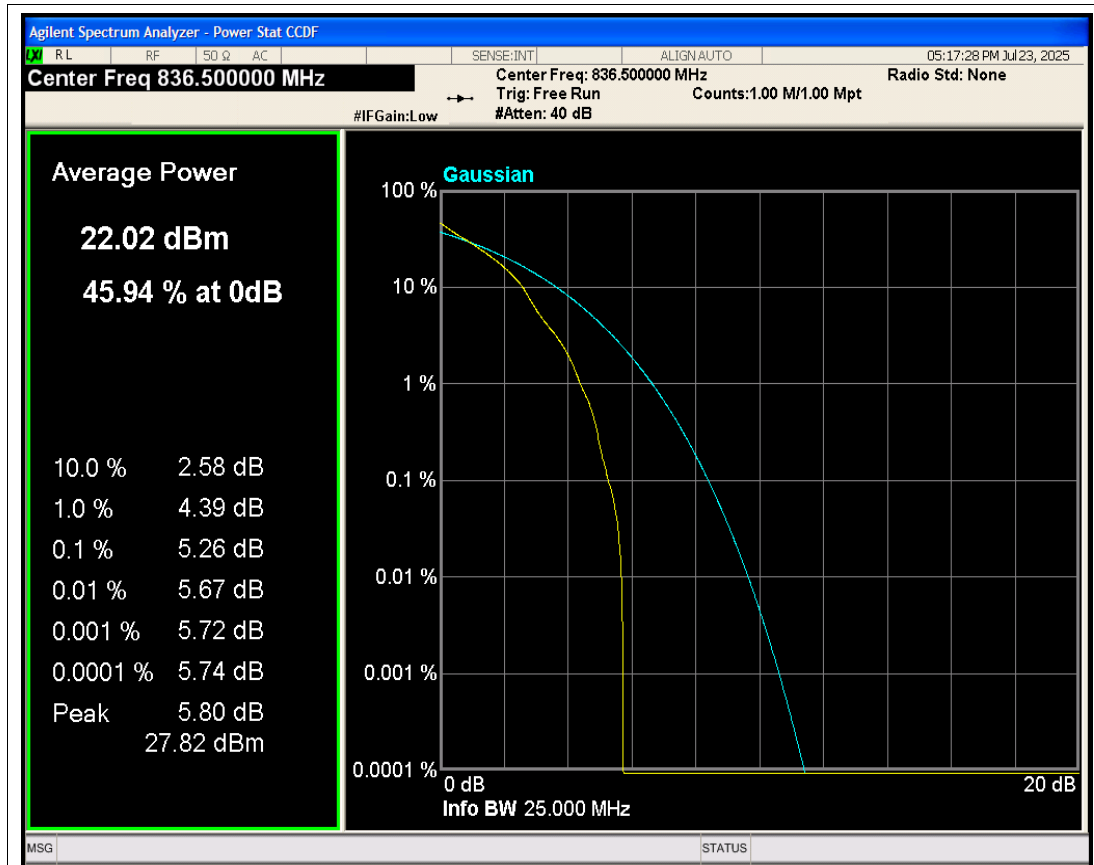
Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0 NVNT



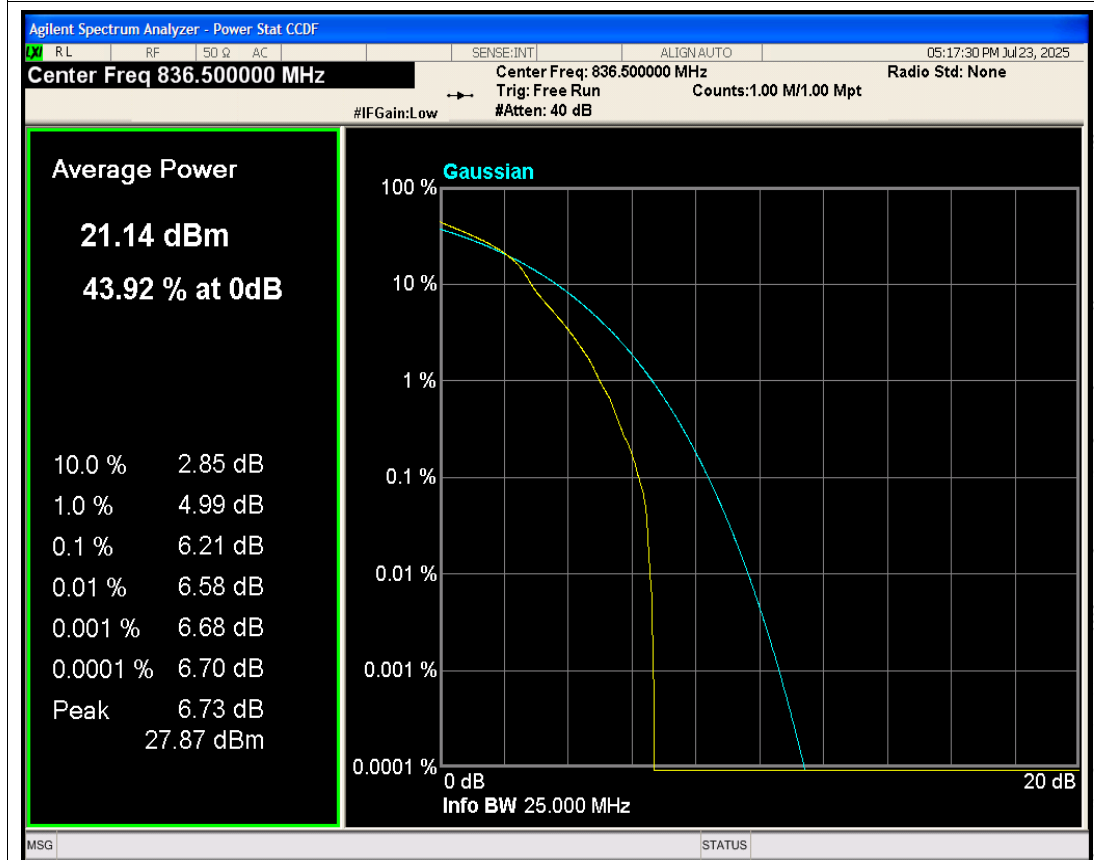
Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0 NVNT



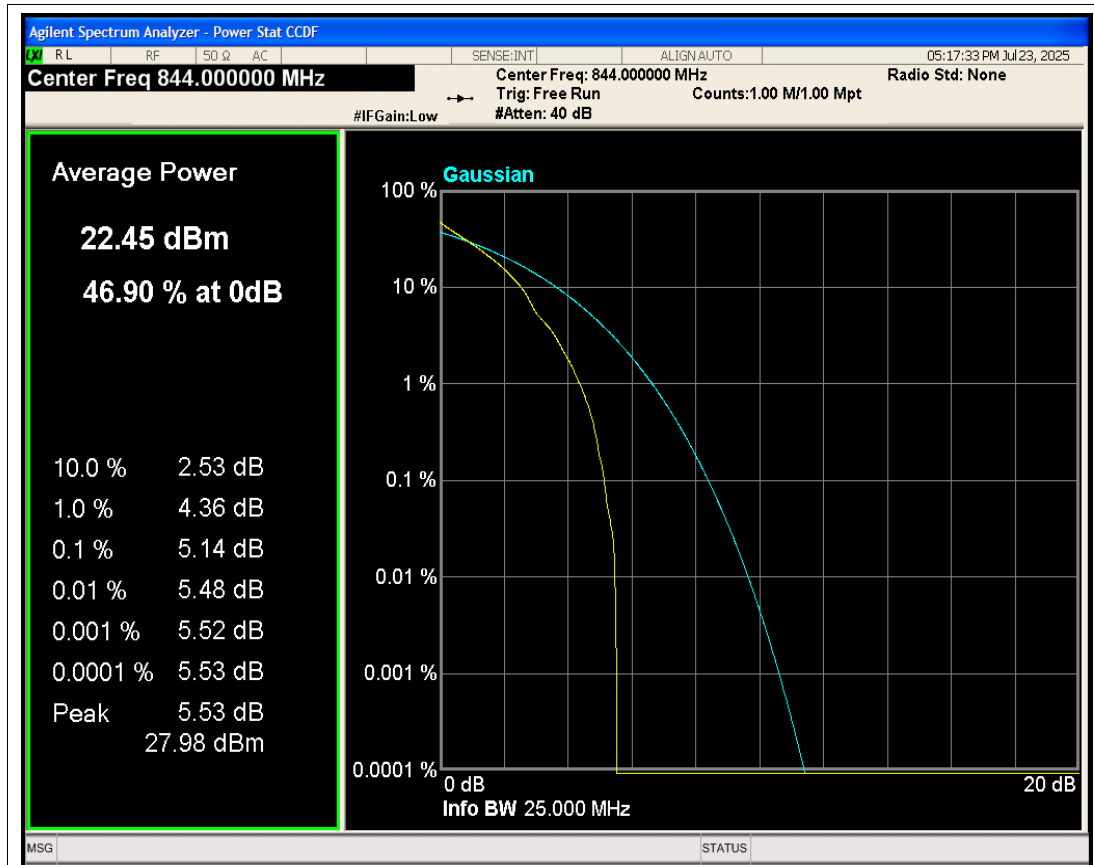
Band5 16QAM BW=10MHz Channel=20450 RB Size=1 Position=#0 NVNT



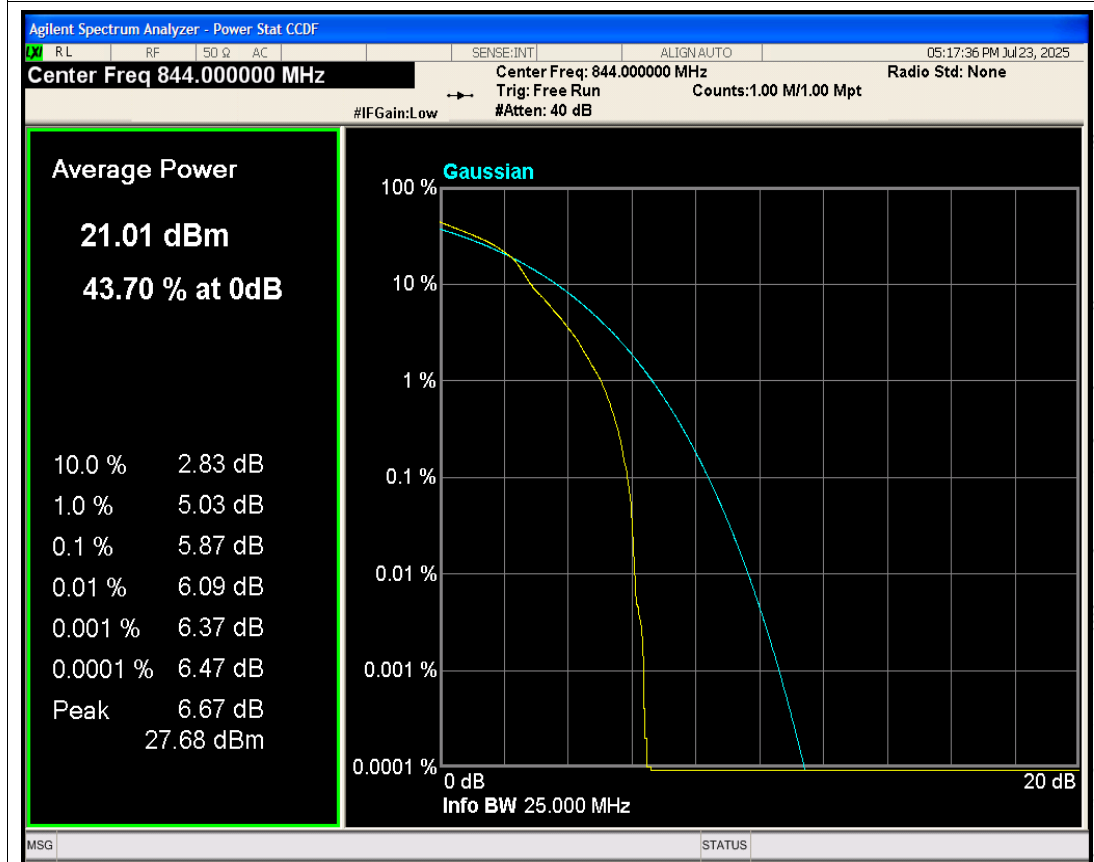
Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0 NVNT



Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0 NVNT



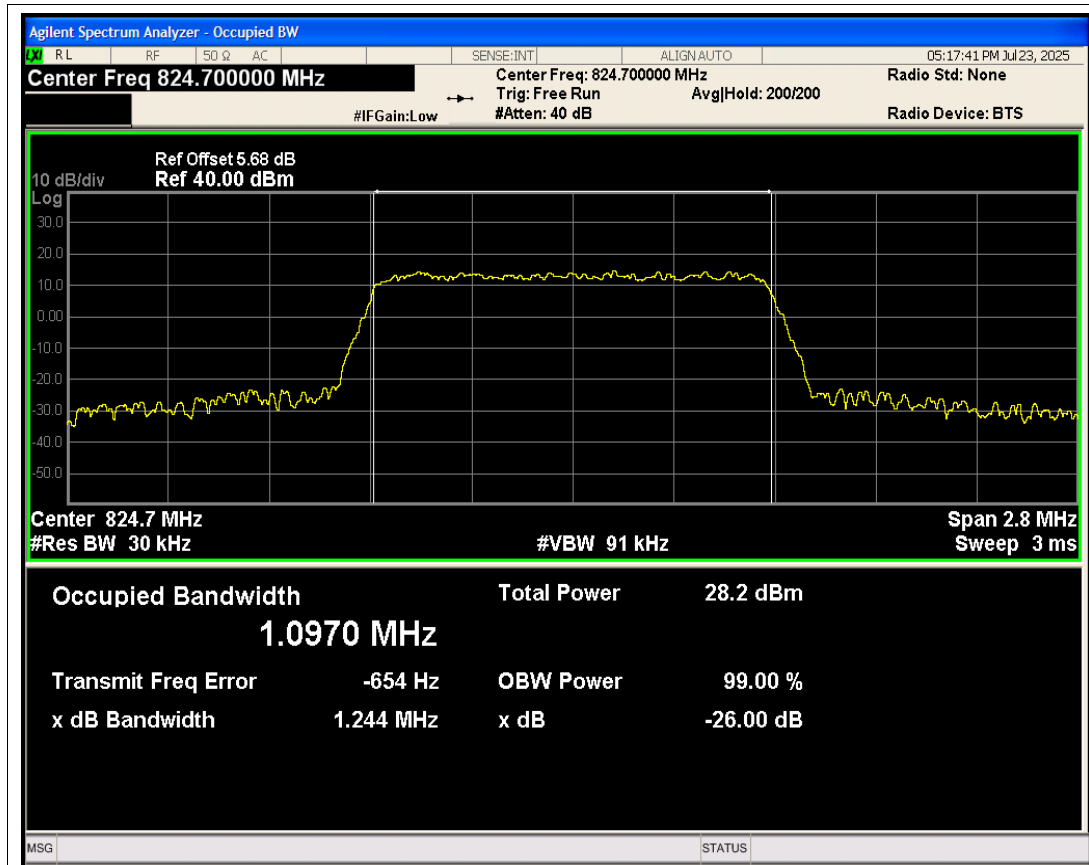
Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0 NVNT



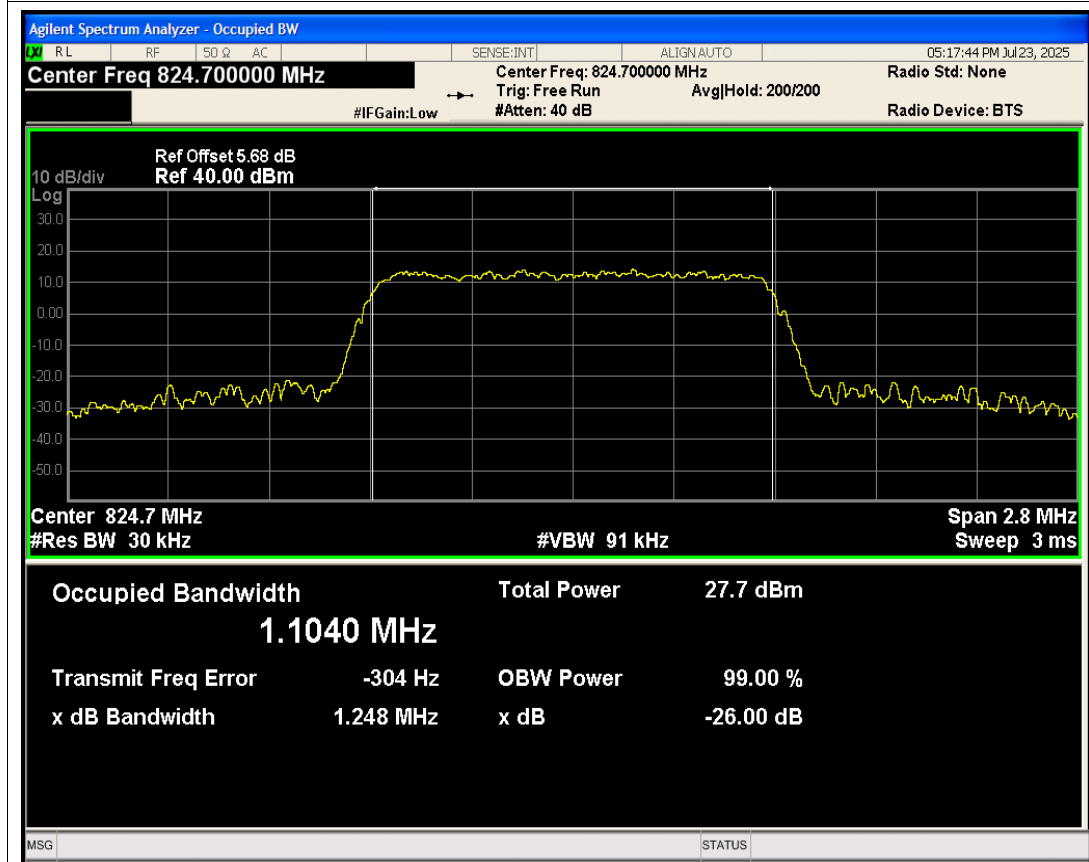
Band5 16QAM BW=10MHz Channel=20600 RB Size=1 Position=#0 NVNT

Appendix 4. Occupied bandwidth

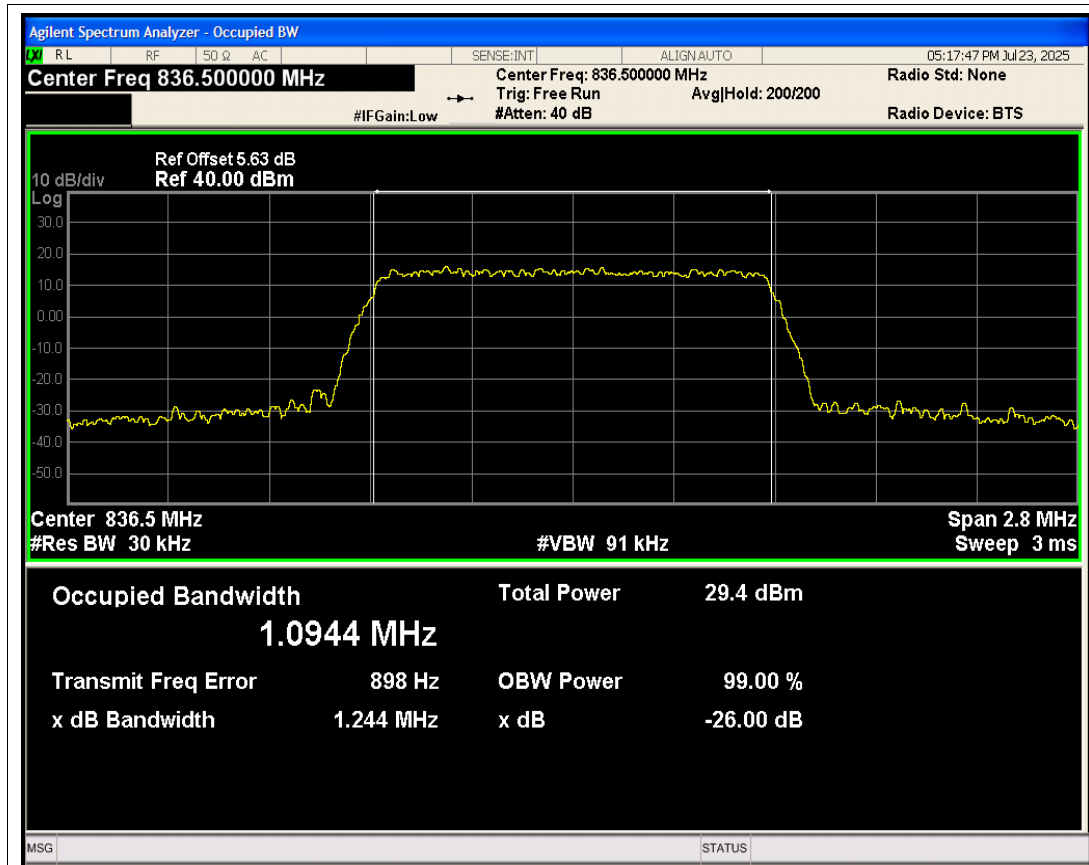
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20407	6	#0	QPSK	1.097	1.244	PASS
Band5	1.4	20407	6	#0	16QAM	1.104	1.248	PASS
Band5	1.4	20525	6	#0	QPSK	1.094	1.244	PASS
Band5	1.4	20525	6	#0	16QAM	1.096	1.241	PASS
Band5	1.4	20643	6	#0	QPSK	1.098	1.252	PASS
Band5	1.4	20643	6	#0	16QAM	1.100	1.254	PASS
Band5	3	20415	15	#0	QPSK	2.714	3.059	PASS
Band5	3	20415	15	#0	16QAM	2.714	3.011	PASS
Band5	3	20525	15	#0	QPSK	2.707	3.050	PASS
Band5	3	20525	15	#0	16QAM	2.702	3.056	PASS
Band5	3	20635	15	#0	QPSK	2.718	3.014	PASS
Band5	3	20635	15	#0	16QAM	2.699	3.036	PASS
Band5	5	20425	25	#0	QPSK	4.501	4.948	PASS
Band5	5	20425	25	#0	16QAM	4.517	4.974	PASS
Band5	5	20525	25	#0	QPSK	4.504	4.981	PASS
Band5	5	20525	25	#0	16QAM	4.524	4.941	PASS
Band5	5	20625	25	#0	QPSK	4.507	4.936	PASS
Band5	5	20625	25	#0	16QAM	4.511	4.938	PASS
Band5	10	20450	50	#0	QPSK	8.992	9.906	PASS
Band5	10	20450	50	#0	16QAM	8.972	9.883	PASS
Band5	10	20525	50	#0	QPSK	8.979	9.819	PASS
Band5	10	20525	50	#0	16QAM	9.012	9.885	PASS
Band5	10	20600	50	#0	QPSK	8.974	9.879	PASS
Band5	10	20600	50	#0	16QAM	8.975	9.858	PASS



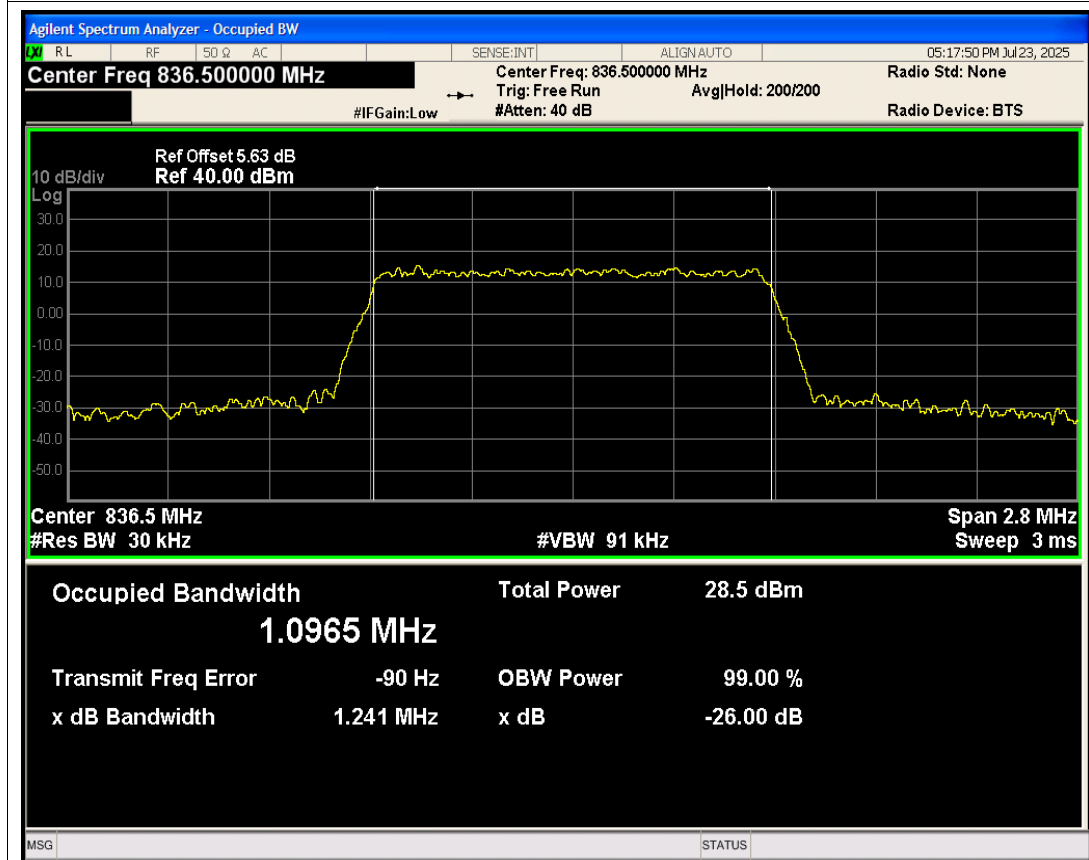
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



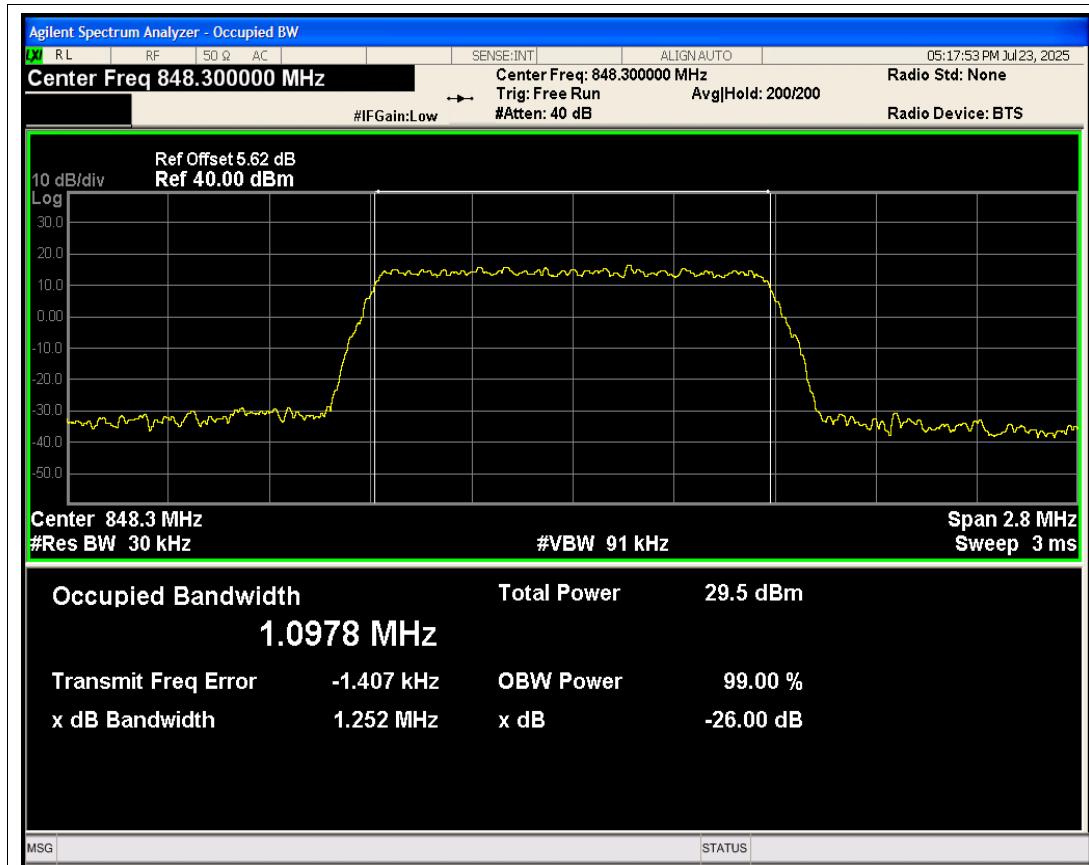
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



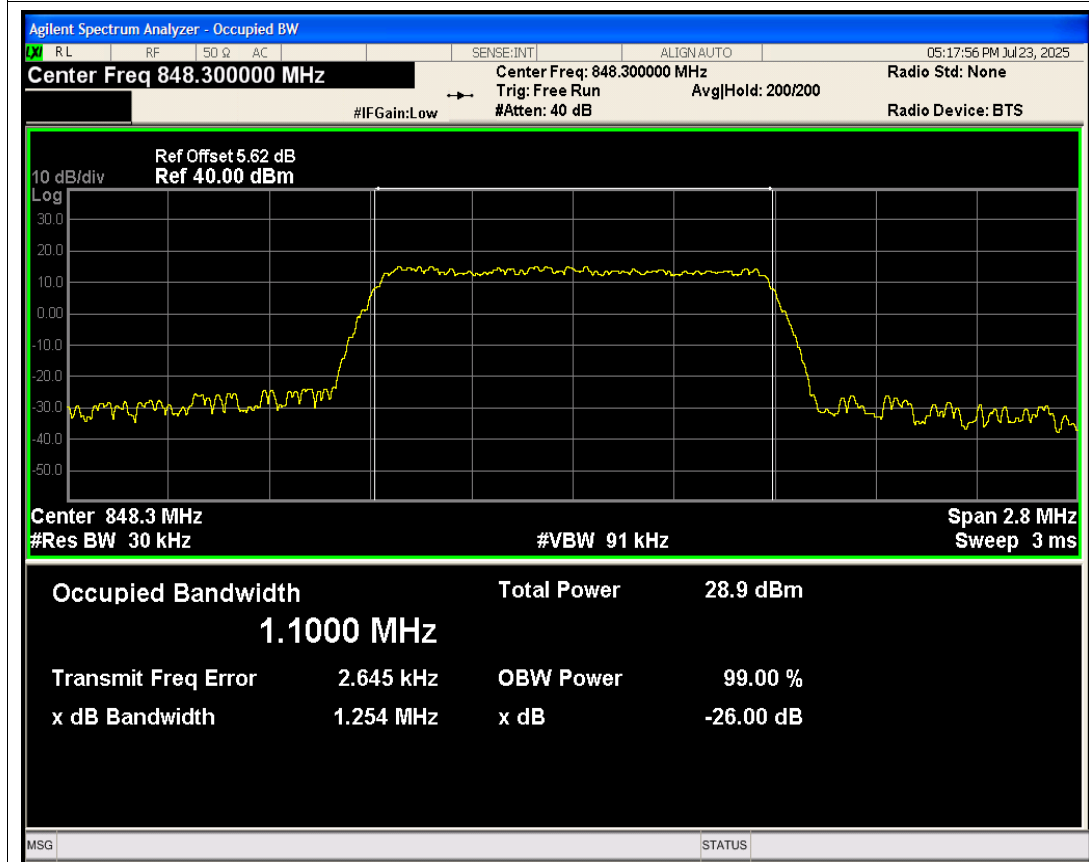
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0 NVNT



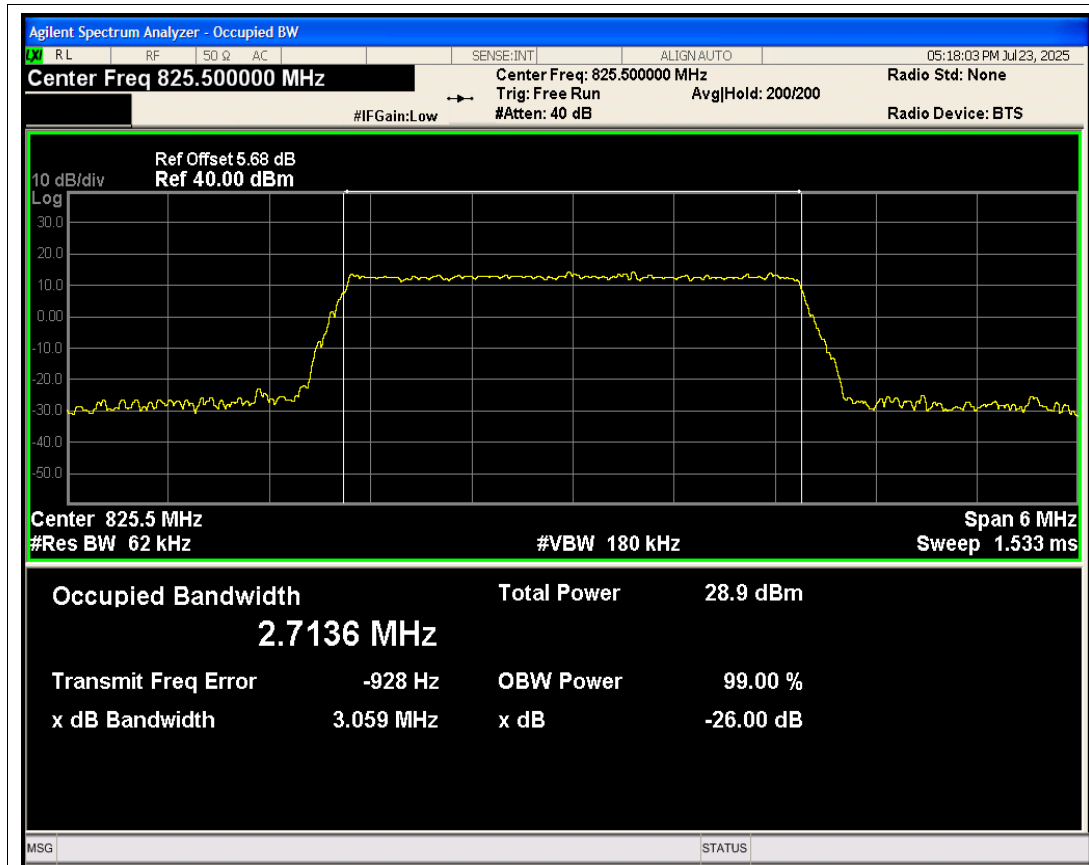
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=6 Position=#0 NVNT



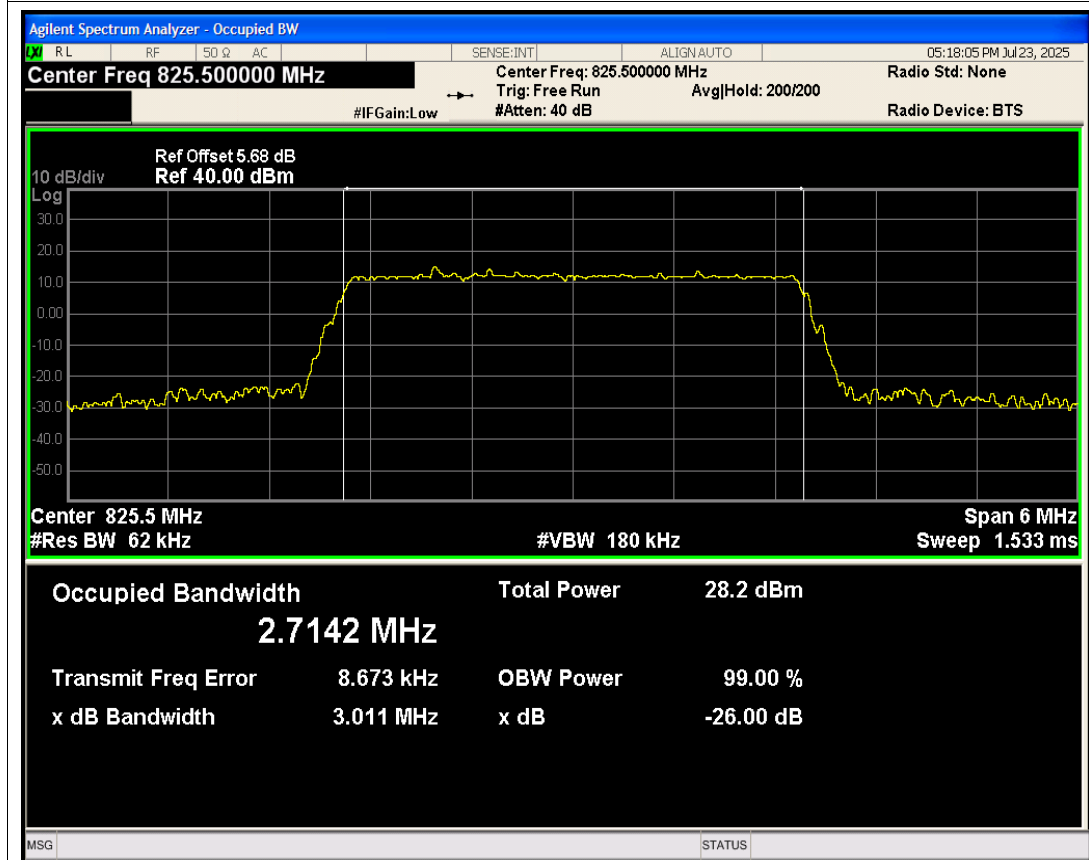
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT



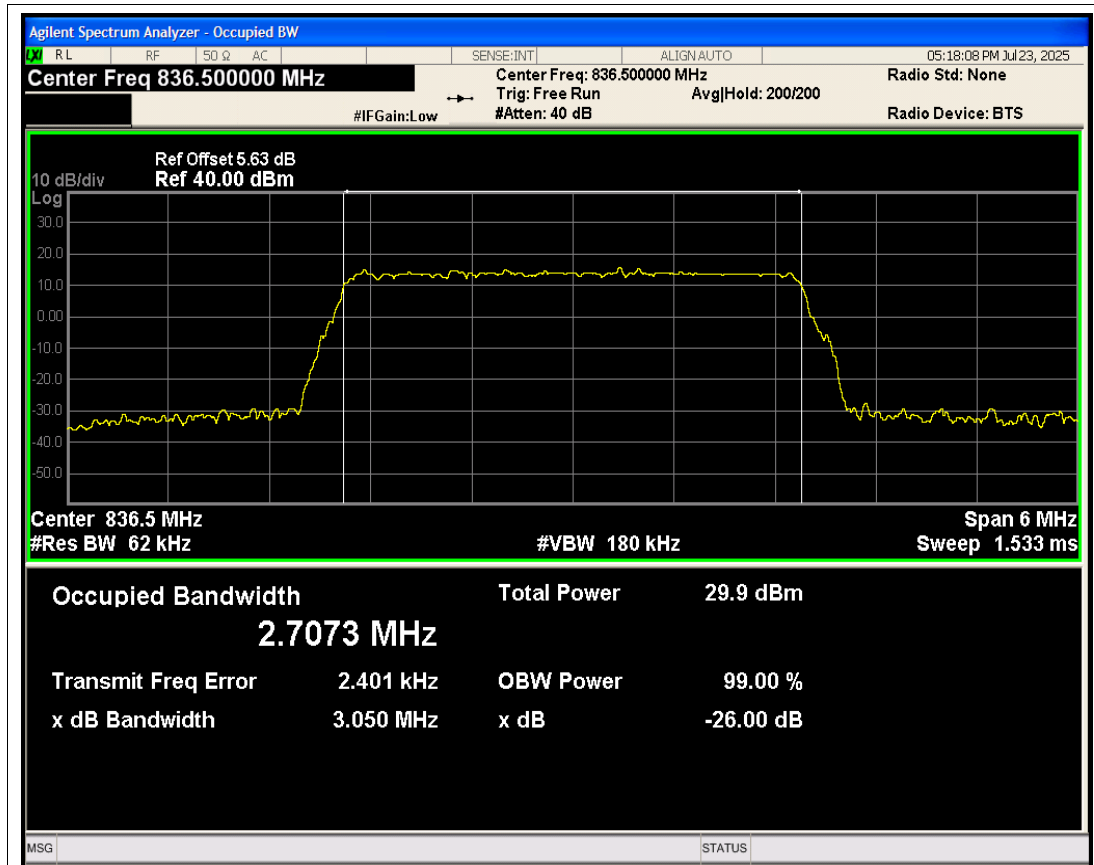
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT



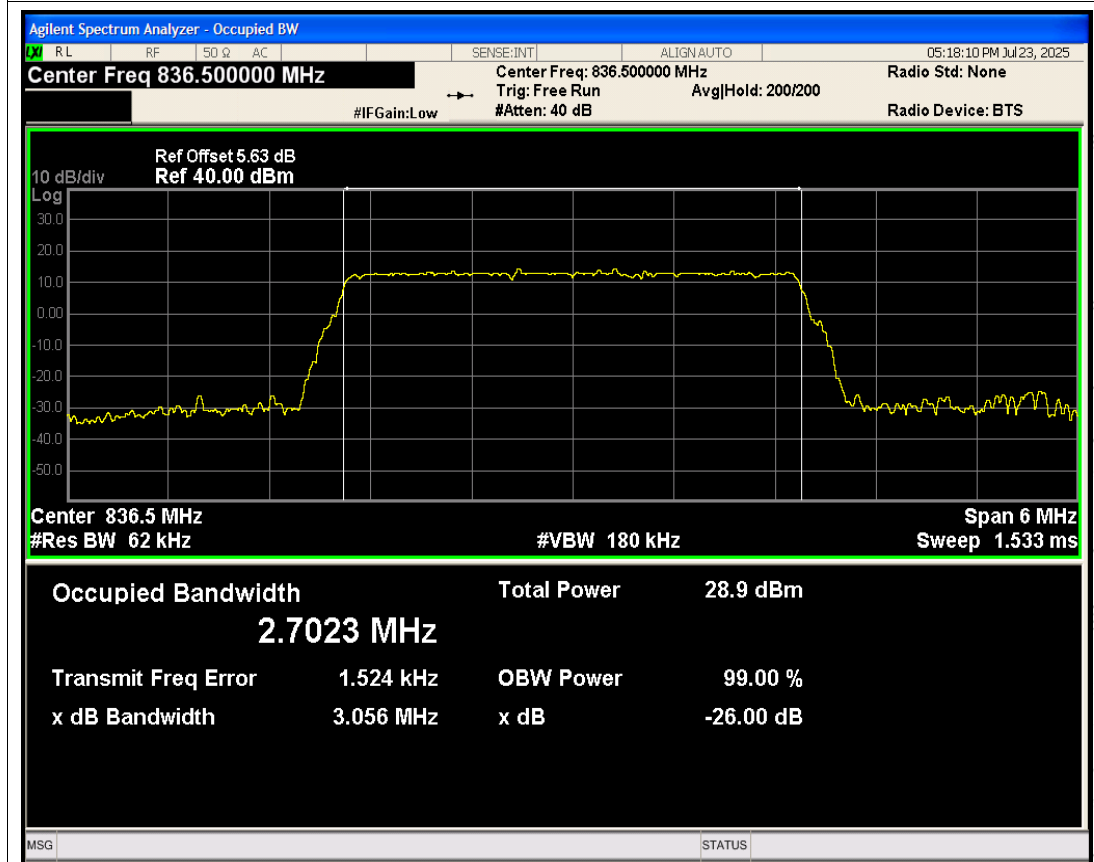
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT



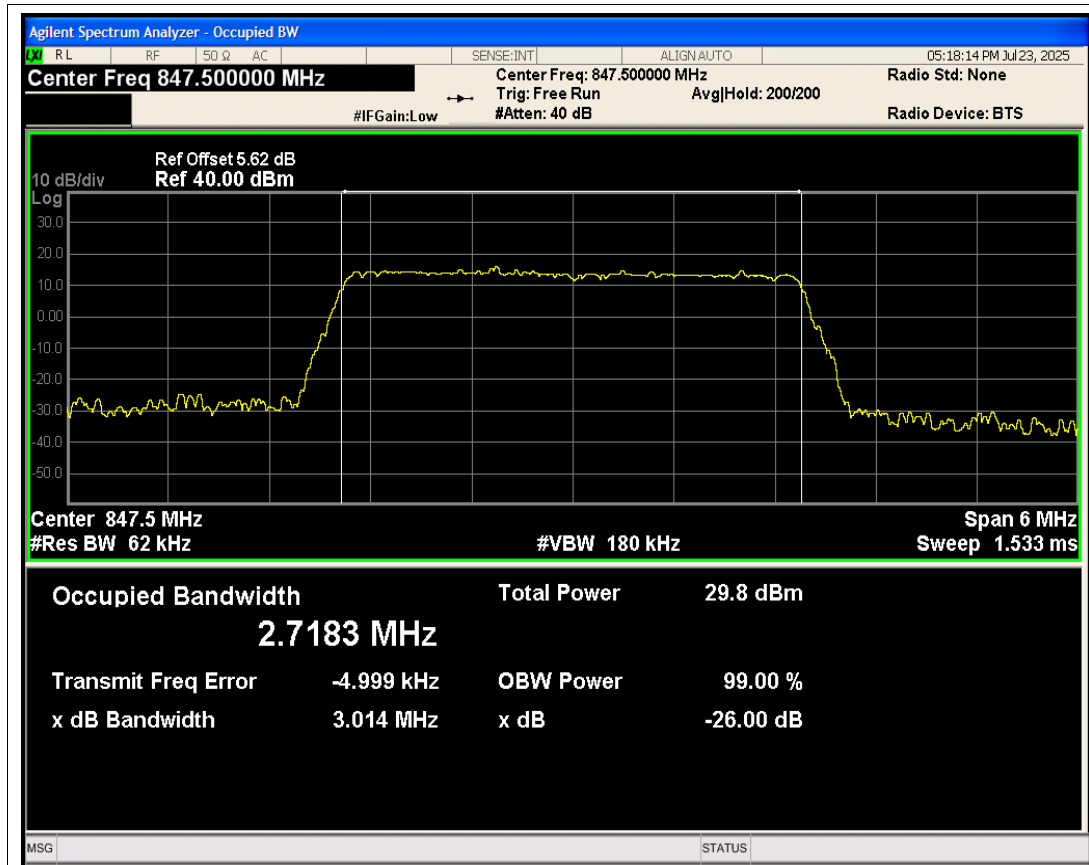
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT



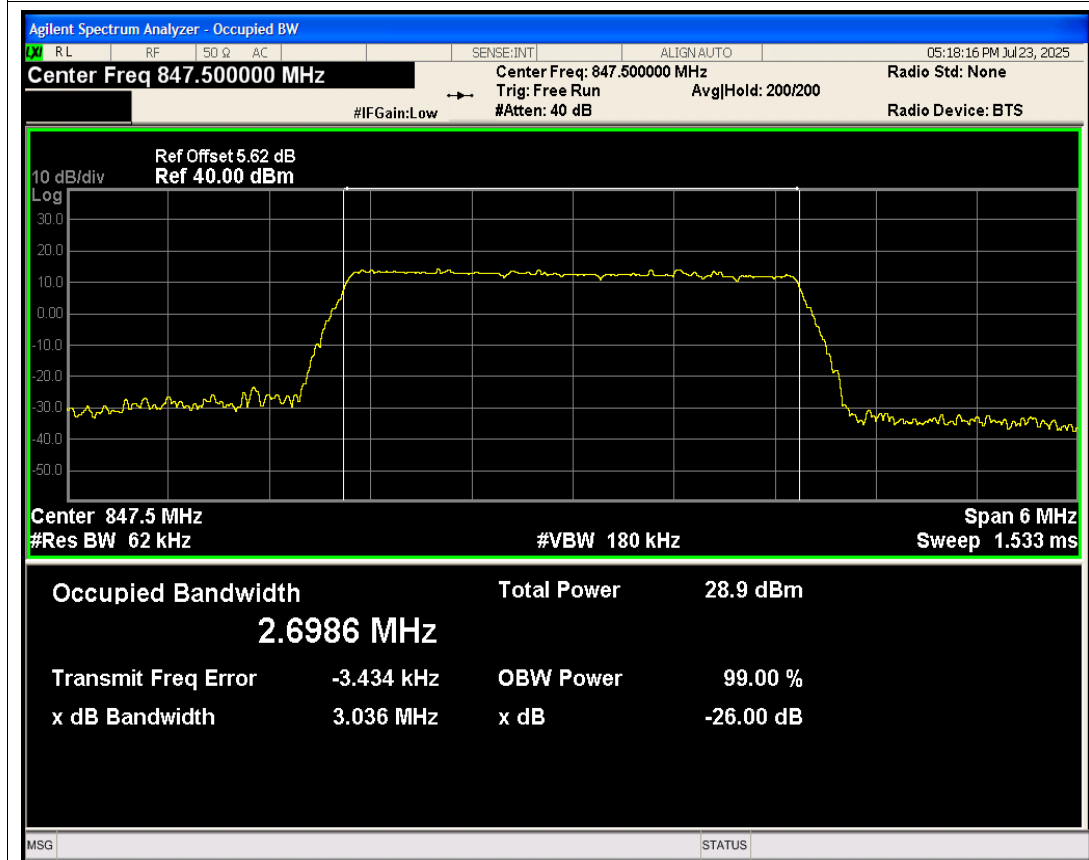
Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0 NVNT



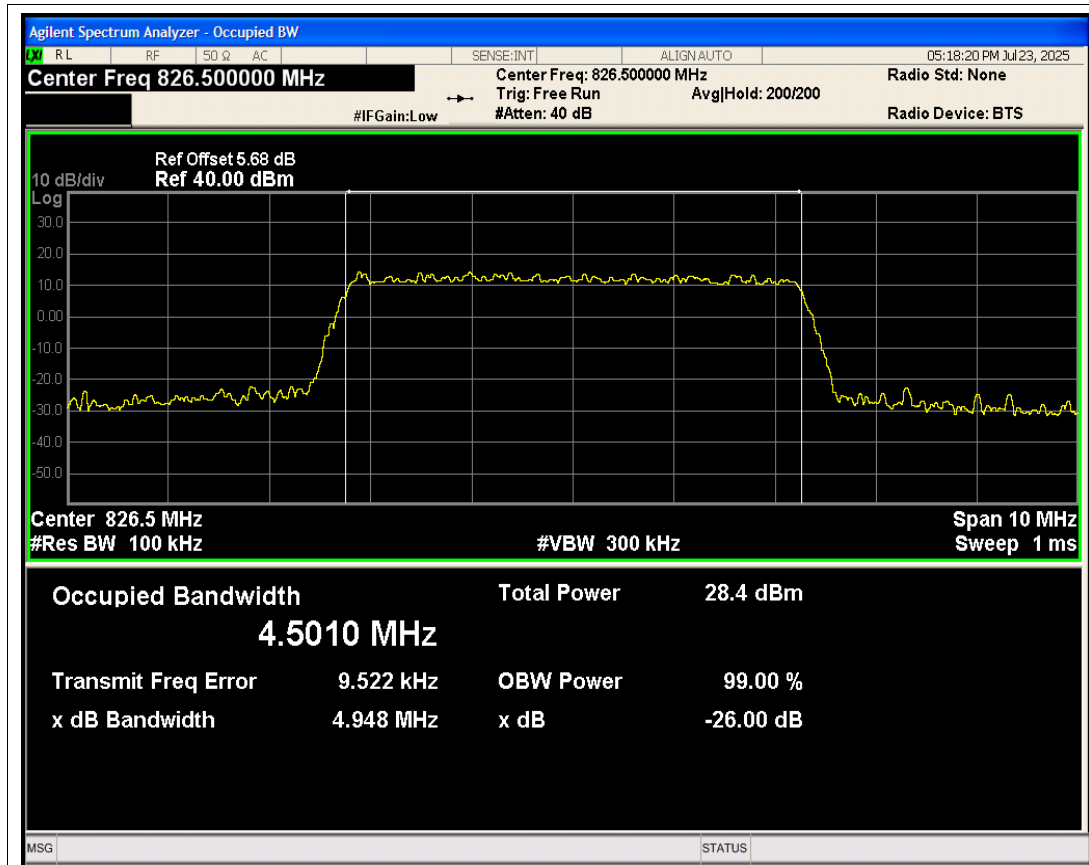
Band5 16QAM BW=3MHz Channel=20525 RB Size=15 Position=#0 NVNT



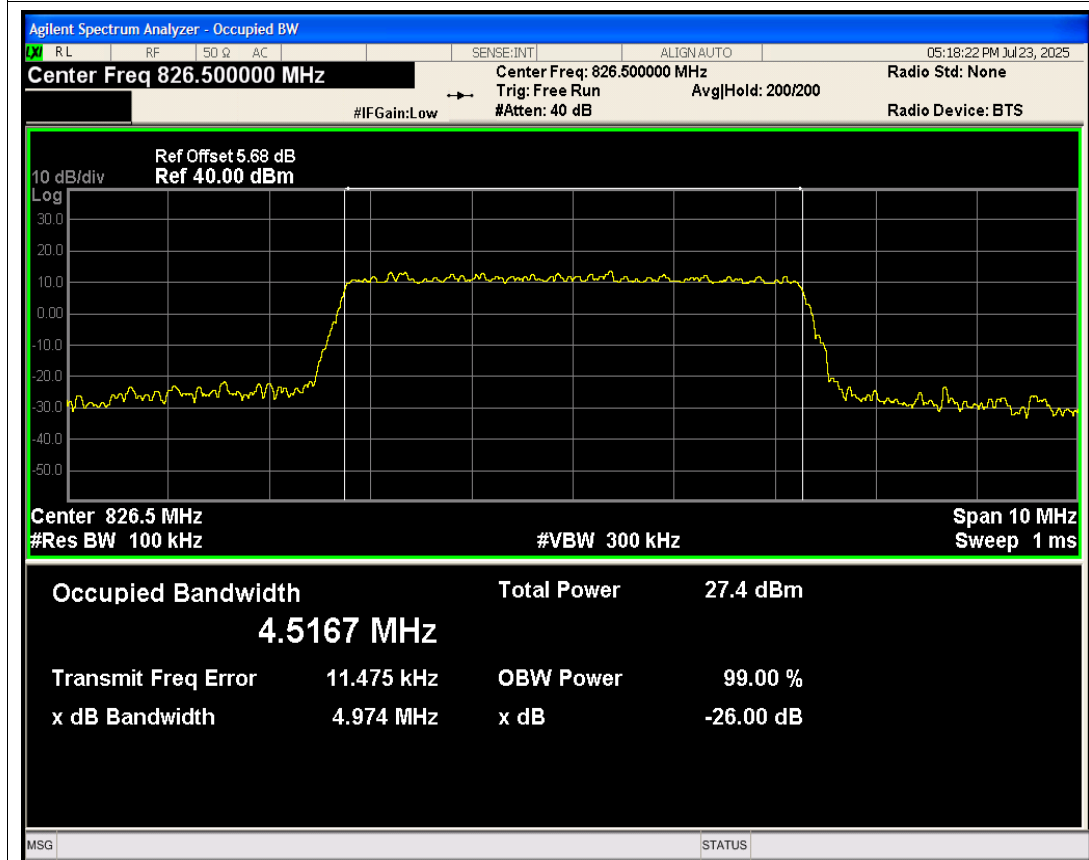
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT



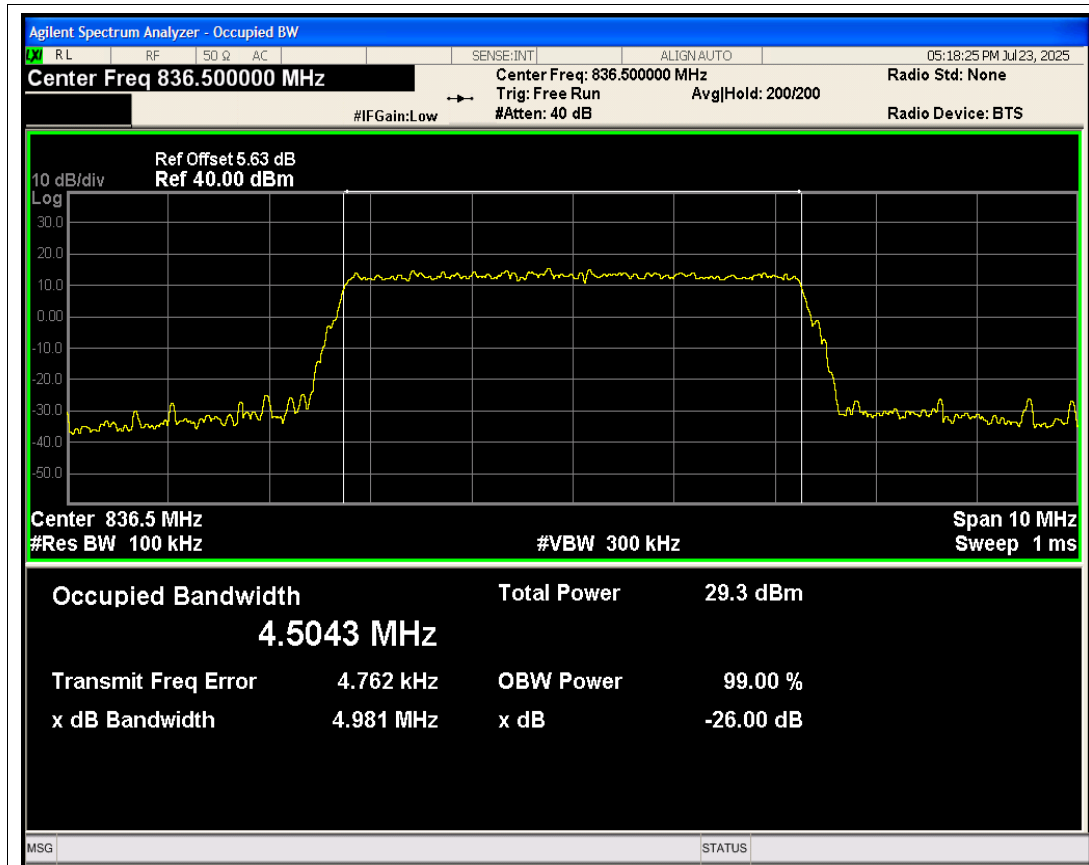
Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT



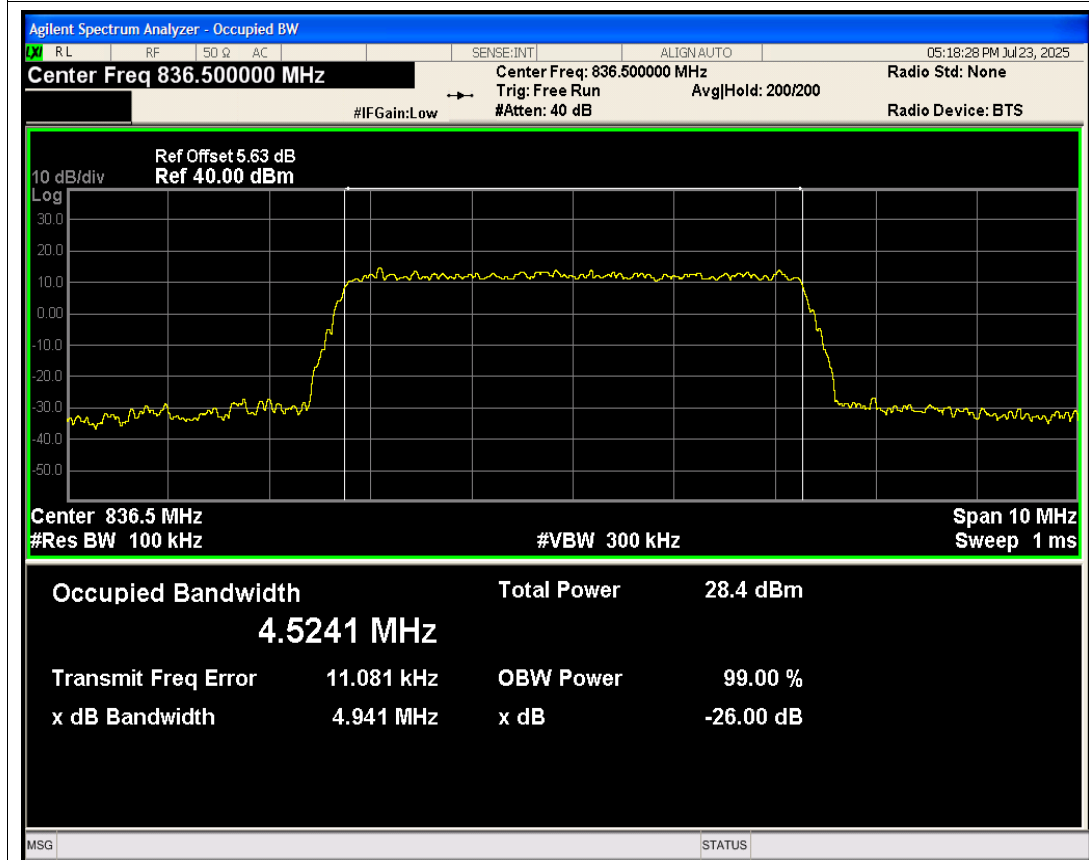
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



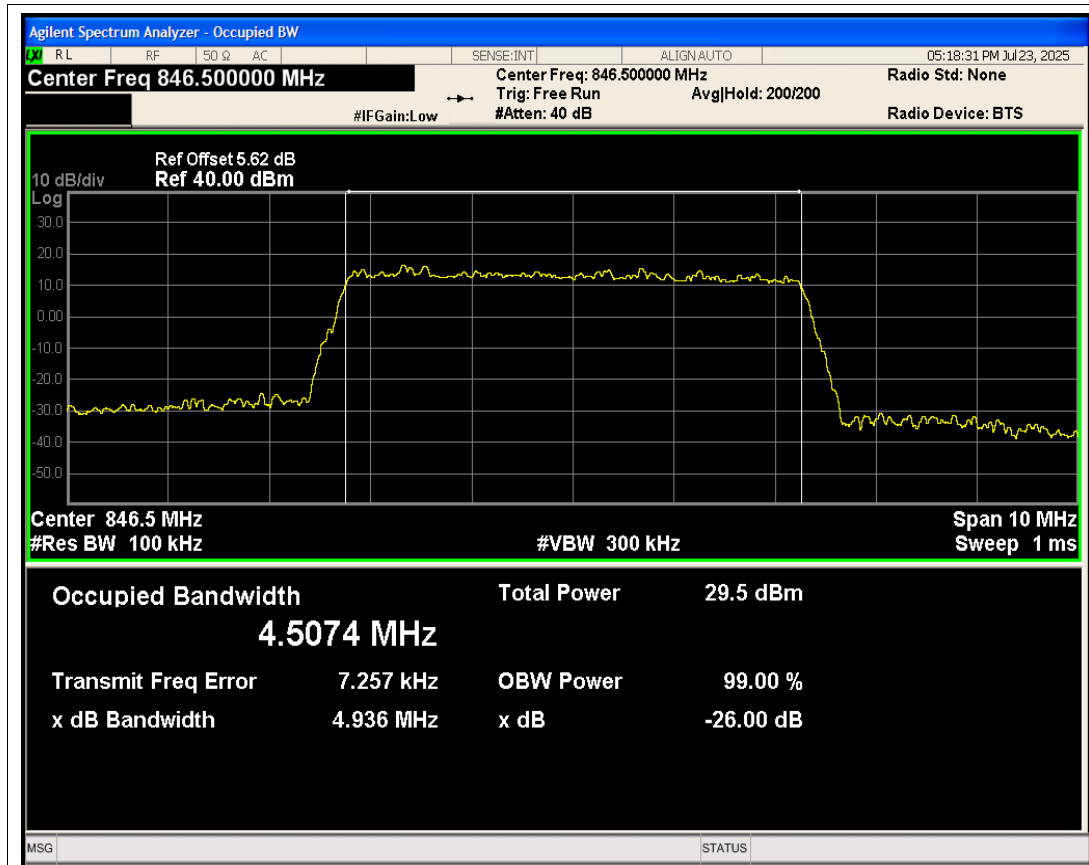
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



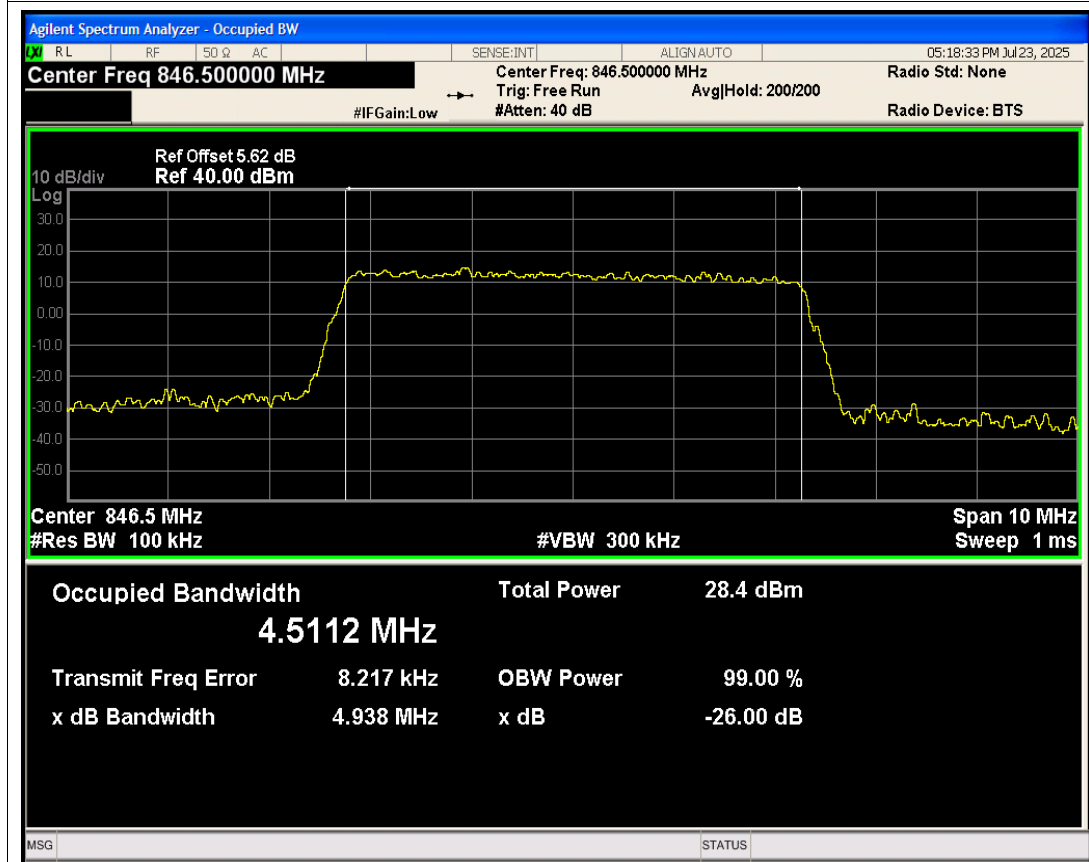
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0 NVNT



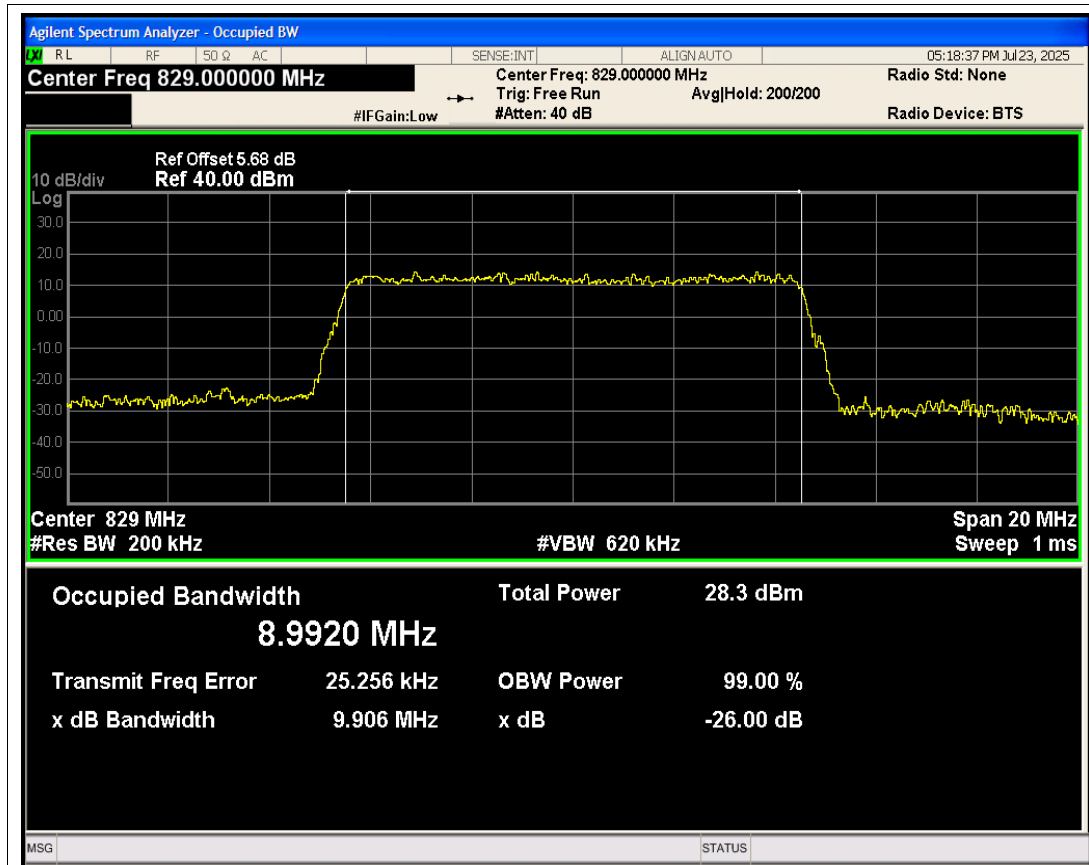
Band5 16QAM BW=5MHz Channel=20525 RB Size=25 Position=#0 NVNT



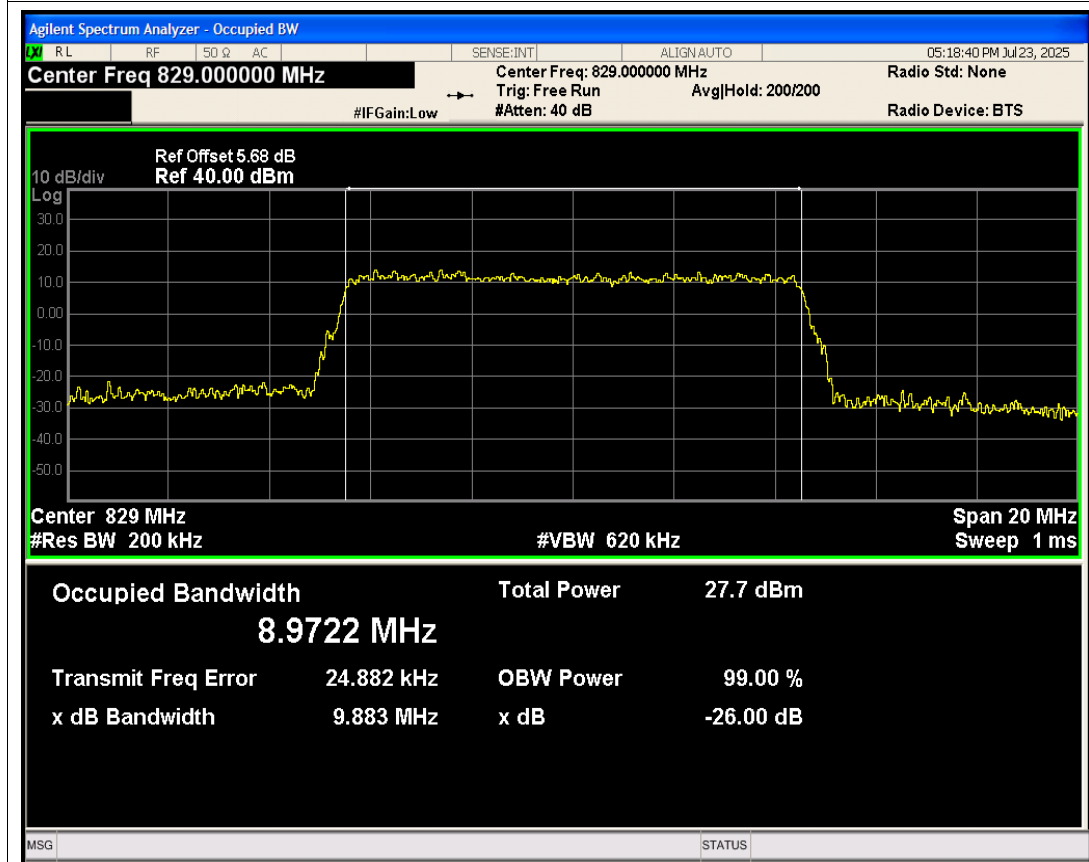
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



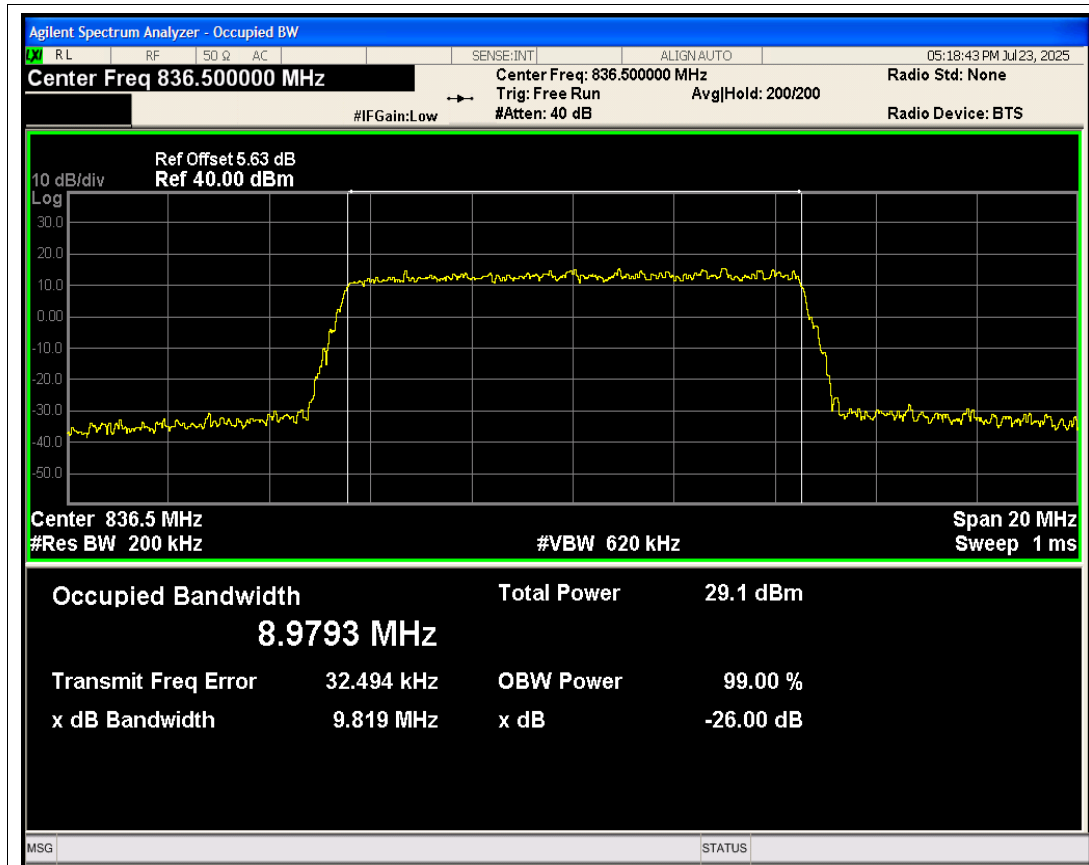
Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



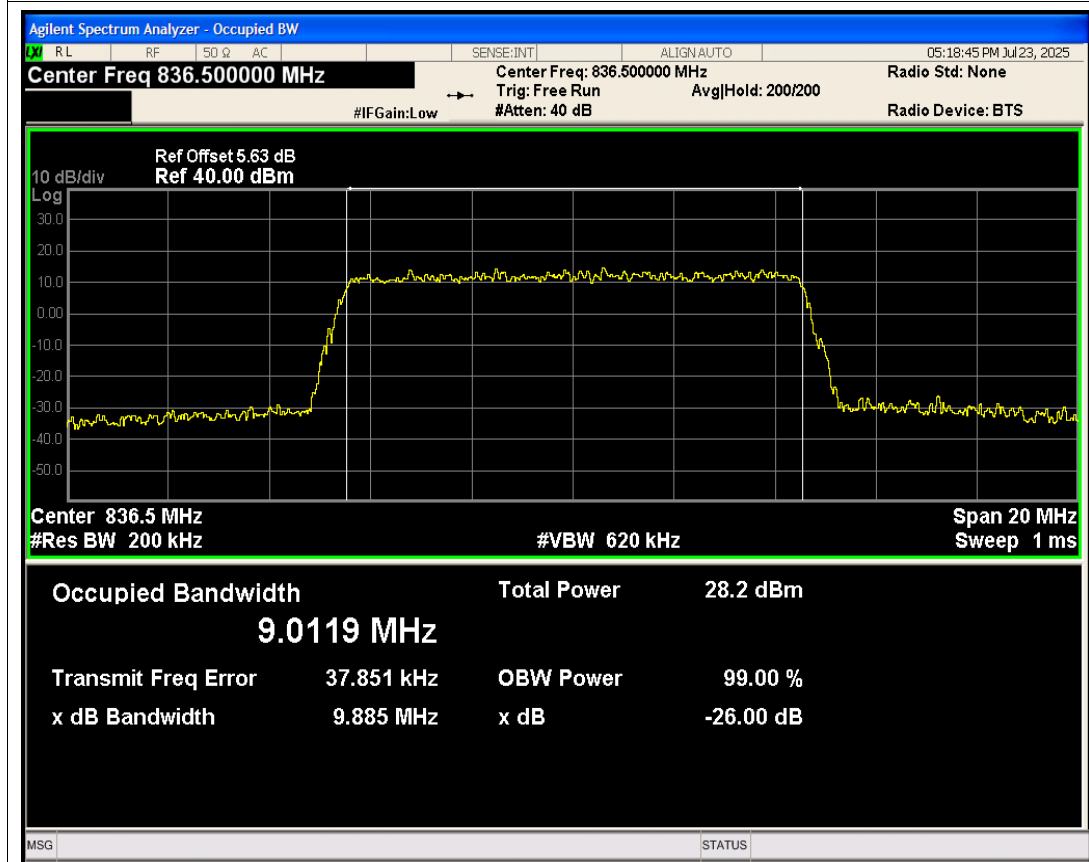
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



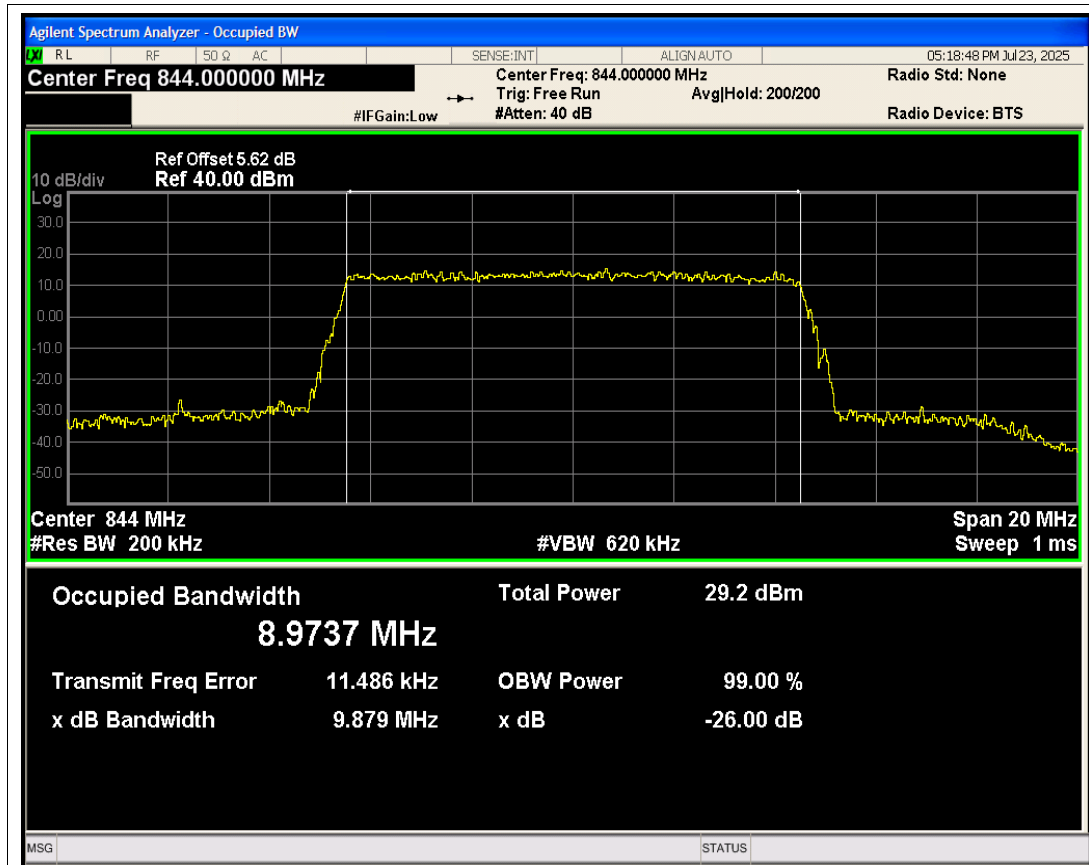
Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



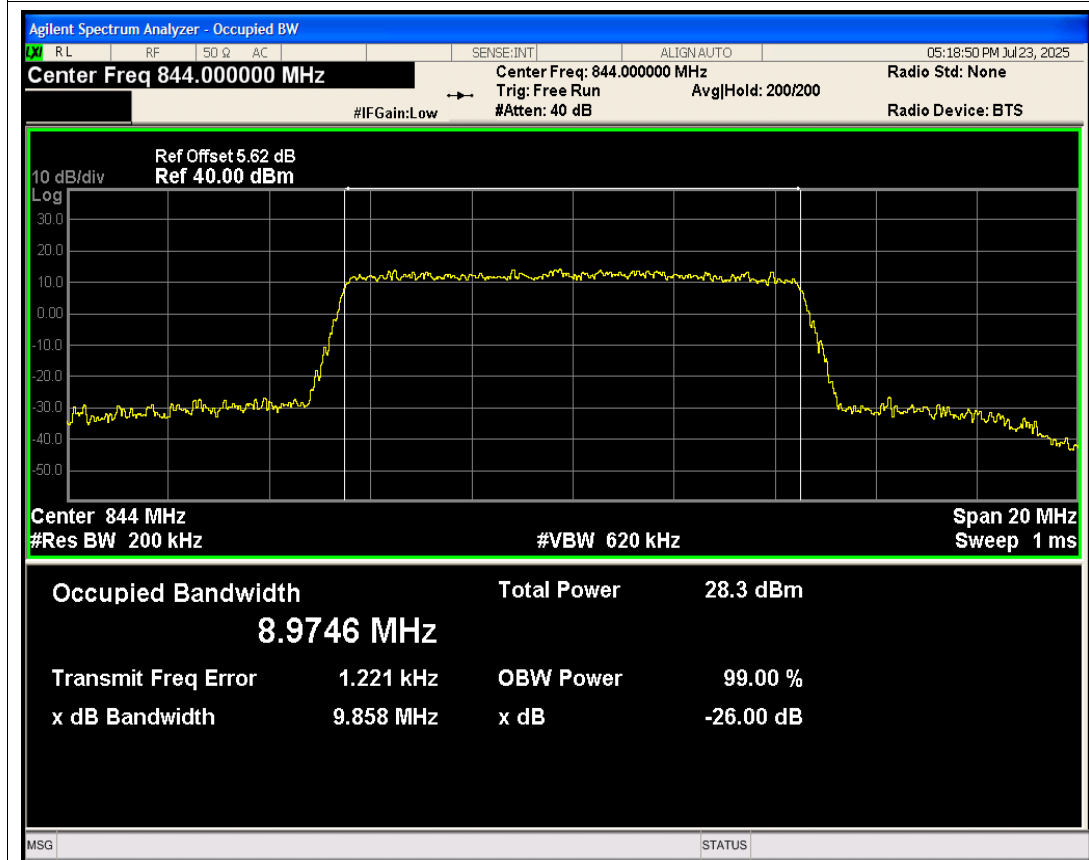
Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0 NVNT



Band5 16QAM BW=10MHz Channel=20525 RB Size=50 Position=#0 NVNT



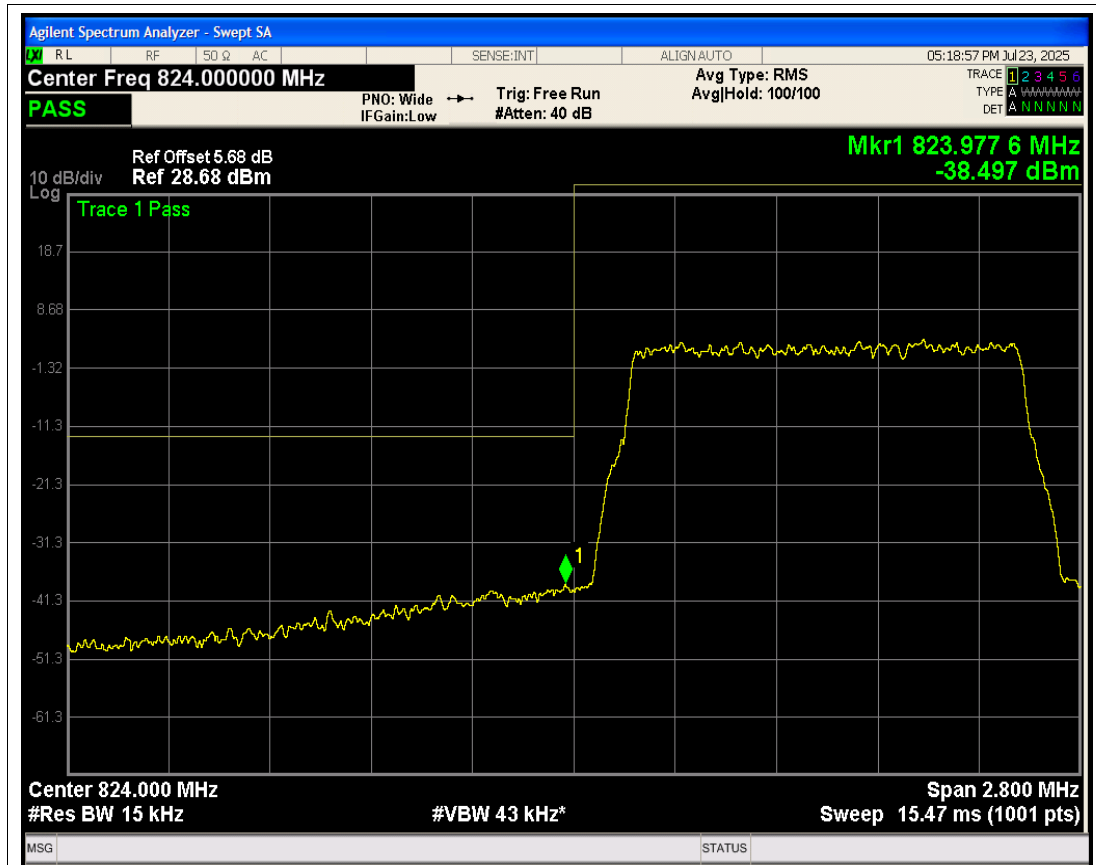
Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT



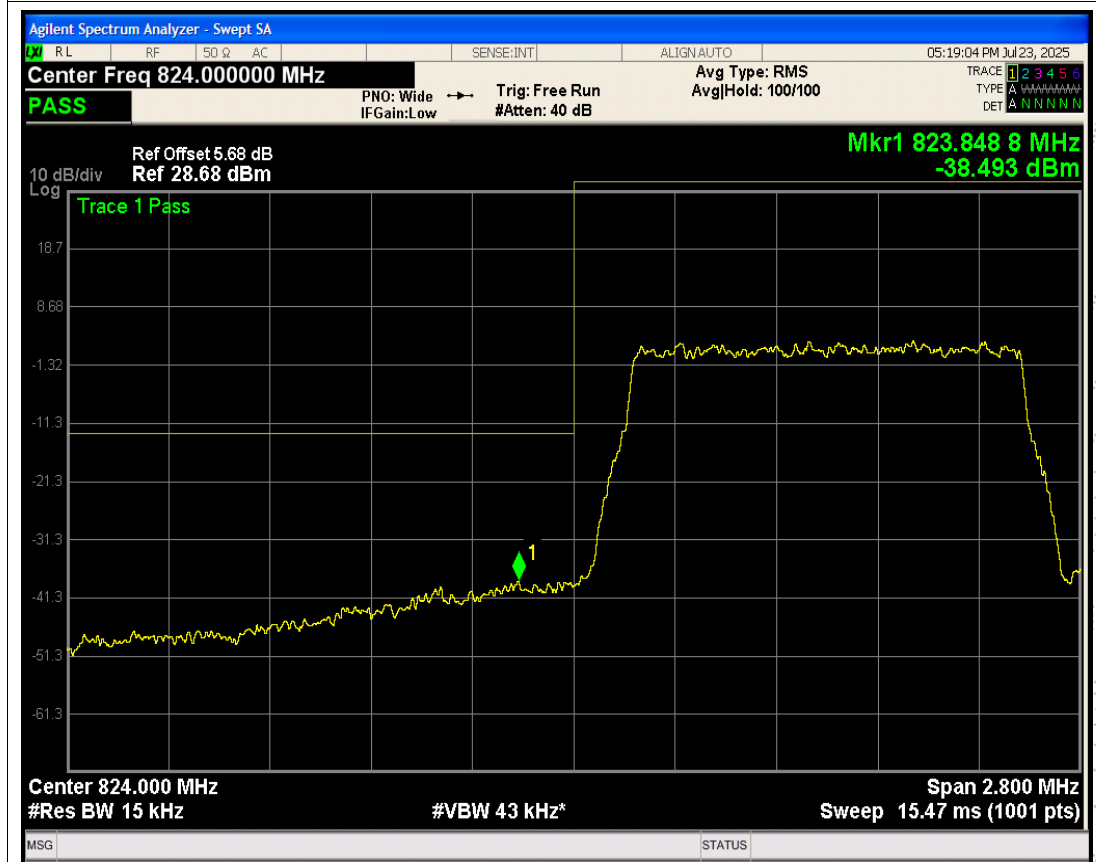
Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT

Appendix 5. Band edge

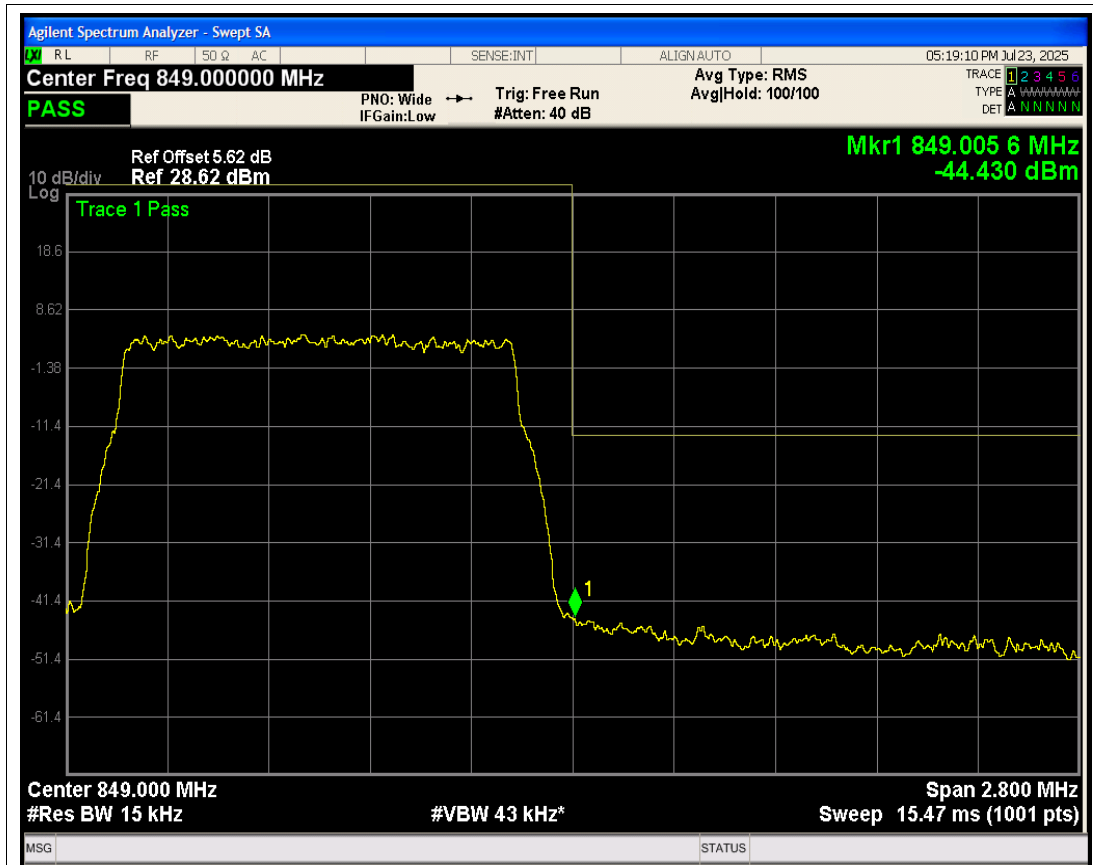
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	823.98	-38.49	-13	PASS
Band5	1.4	20407	6	#0	16QAM	823.85	-38.49	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.01	-44.43	-13	PASS
Band5	1.4	20643	6	#0	16QAM	849.07	-42.83	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-26.53	-13	PASS
Band5	3	20415	15	#0	16QAM	823.99	-27.92	-13	PASS
Band5	3	20635	15	#0	QPSK	849.00	-27.85	-13	PASS
Band5	3	20635	15	#0	16QAM	849.00	-26.41	-13	PASS
Band5	5	20425	25	#0	QPSK	824.00	-32.41	-13	PASS
Band5	5	20425	25	#0	16QAM	824.00	-31.66	-13	PASS
Band5	5	20625	25	#0	QPSK	849.00	-33.66	-13	PASS
Band5	5	20625	25	#0	16QAM	849.00	-36.43	-13	PASS
Band5	10	20450	50	#0	QPSK	824.00	-33.83	-13	PASS
Band5	10	20450	50	#0	16QAM	823.98	-35.31	-13	PASS
Band5	10	20600	50	#0	QPSK	849.00	-39.55	-13	PASS
Band5	10	20600	50	#0	16QAM	849.00	-35.20	-13	PASS



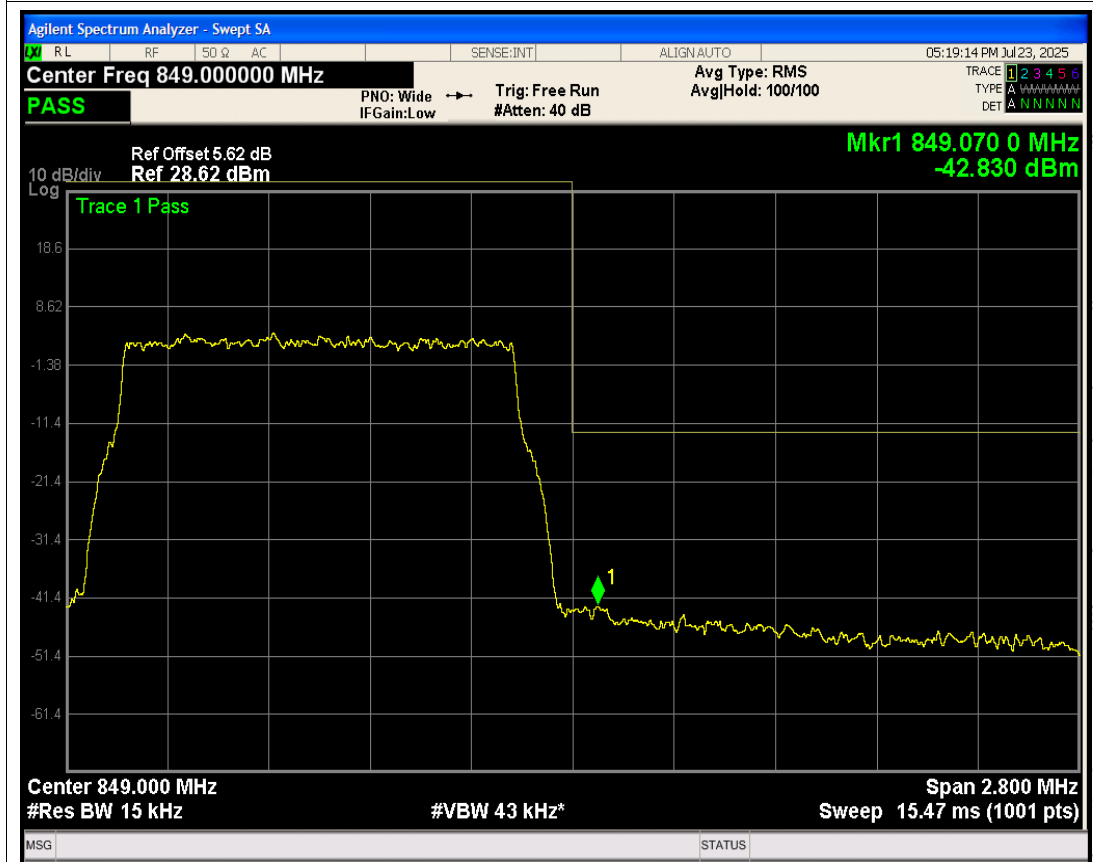
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



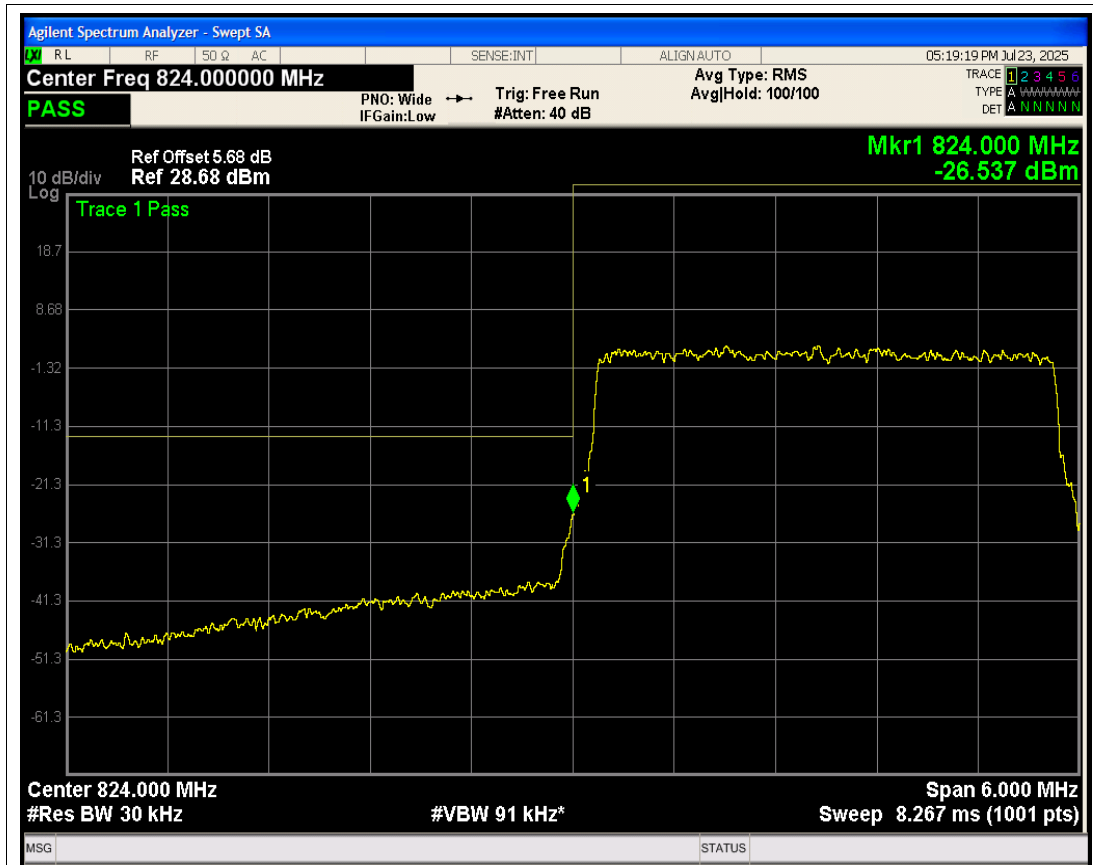
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



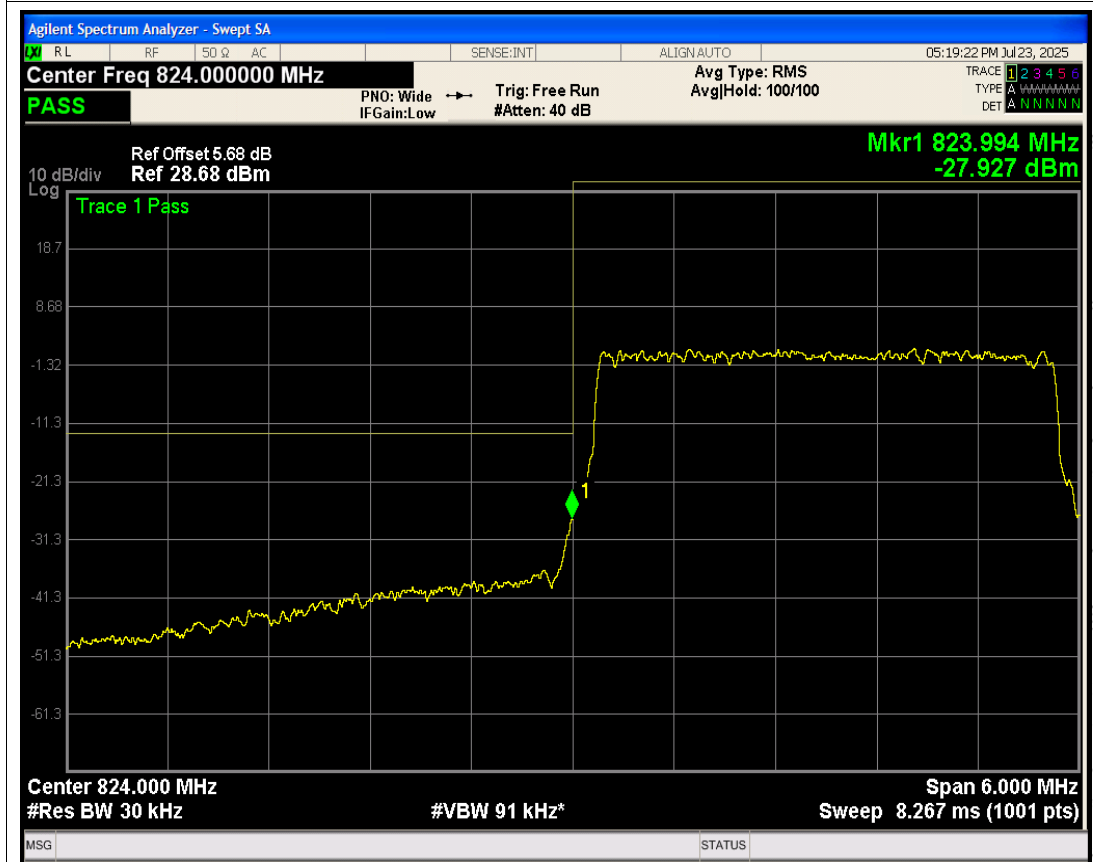
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT



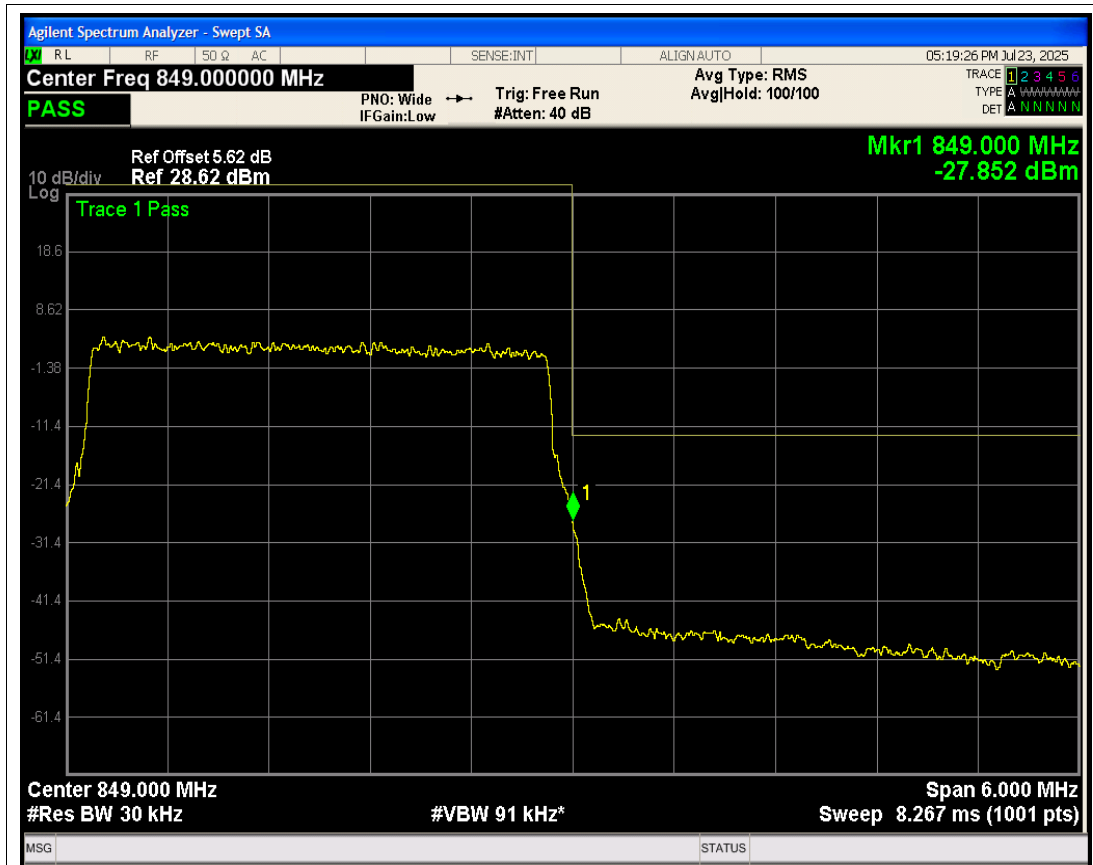
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT



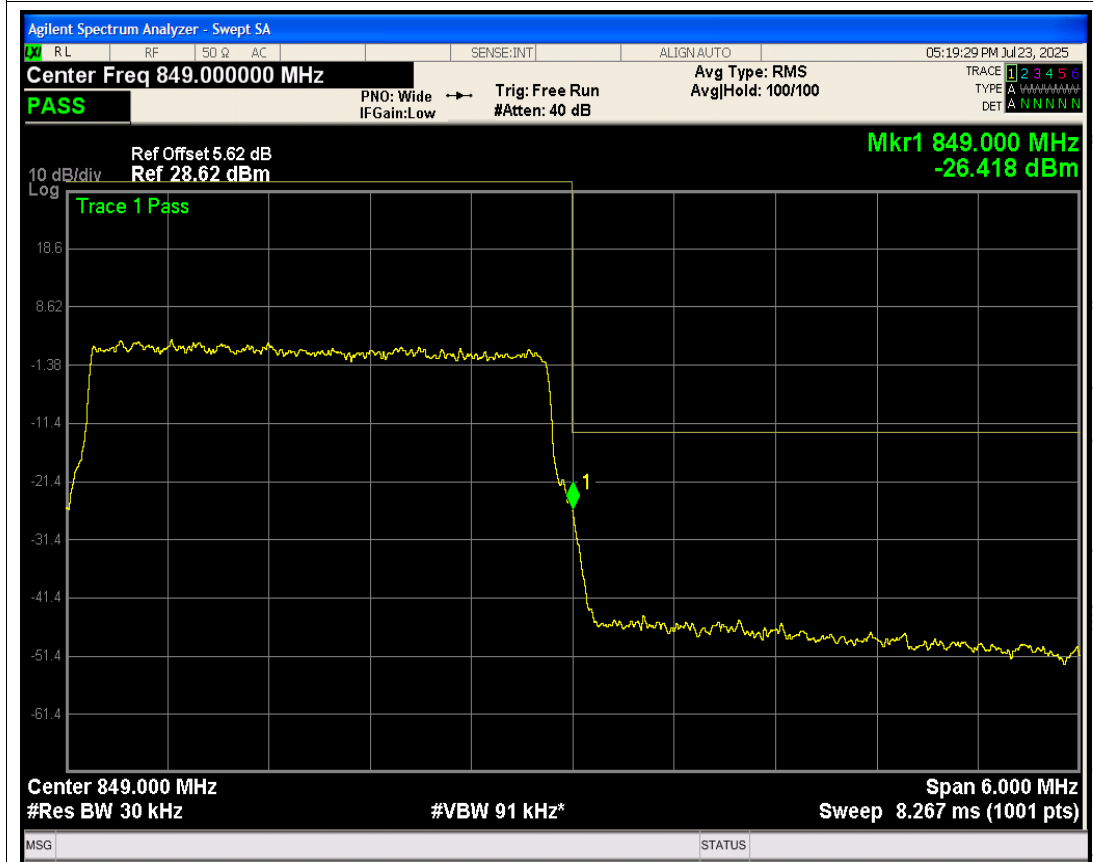
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT



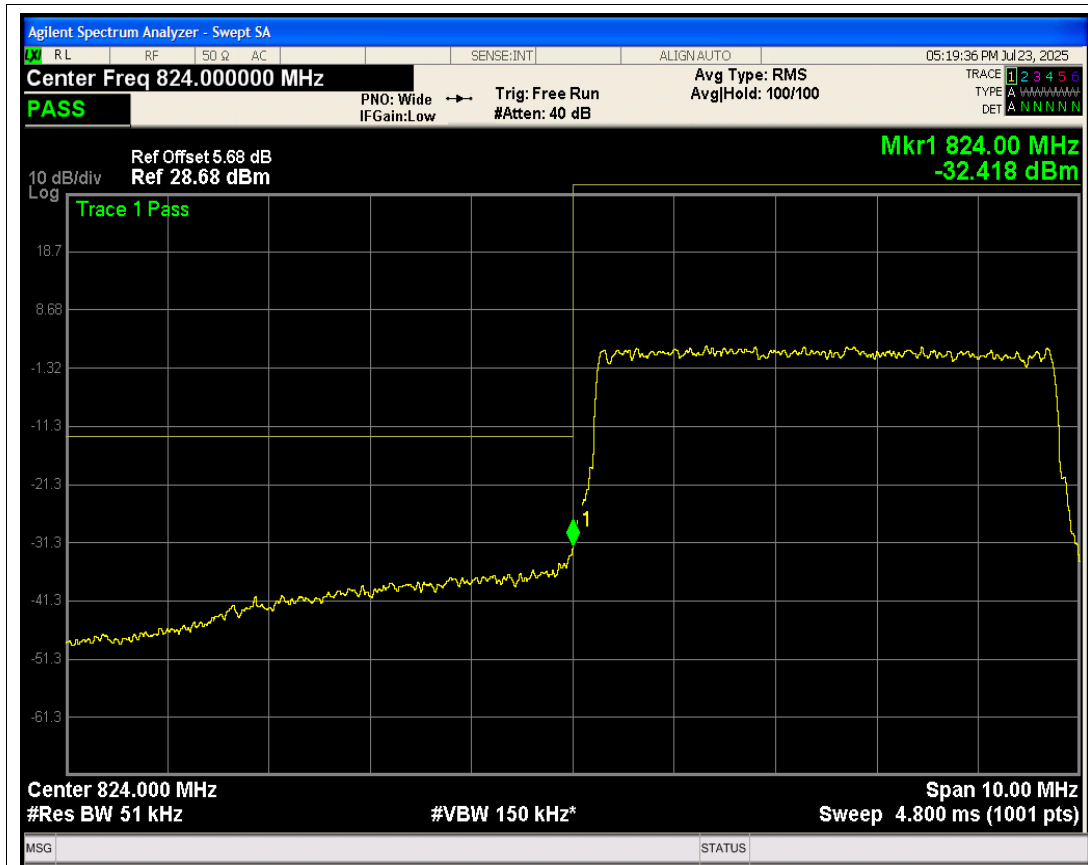
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT



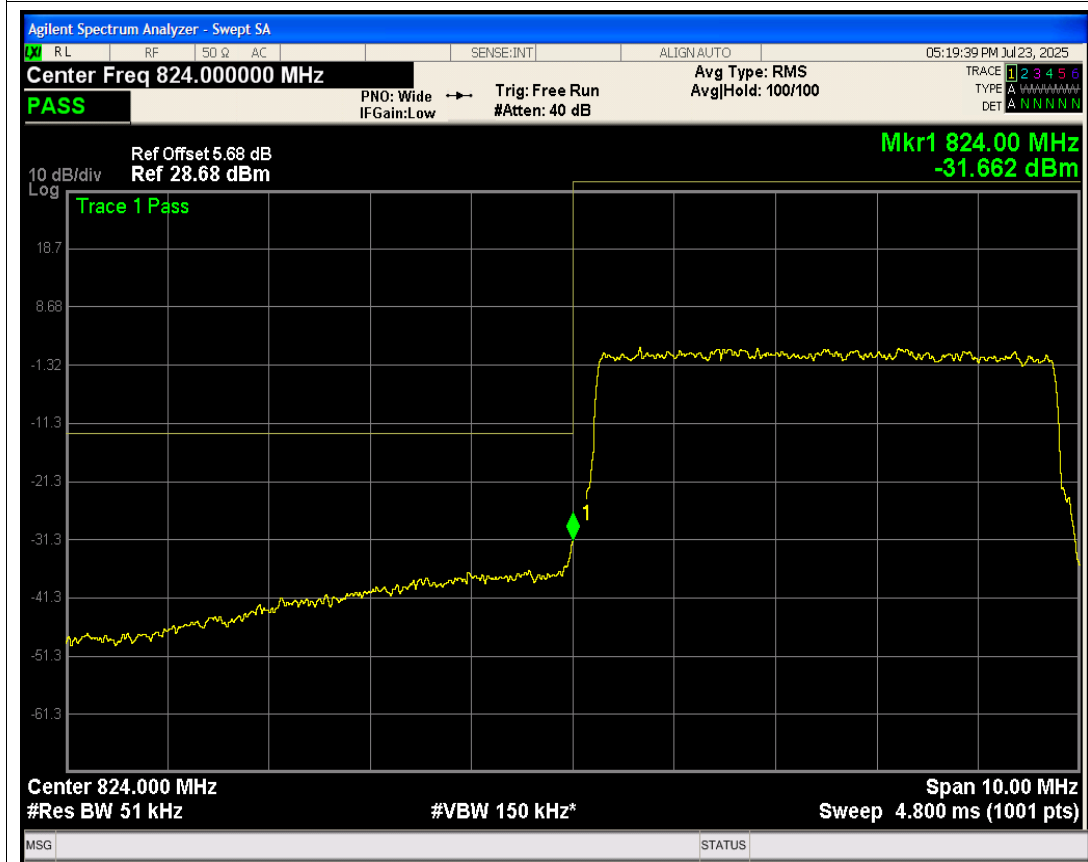
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT



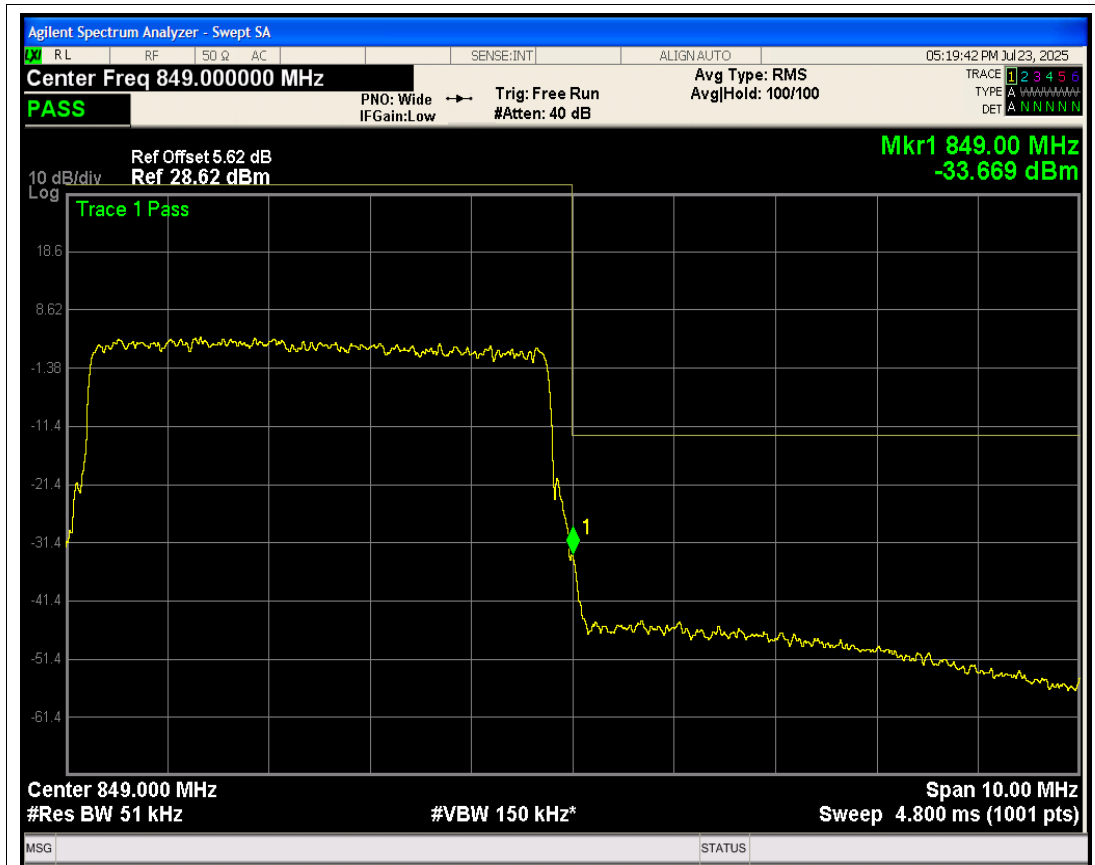
Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT



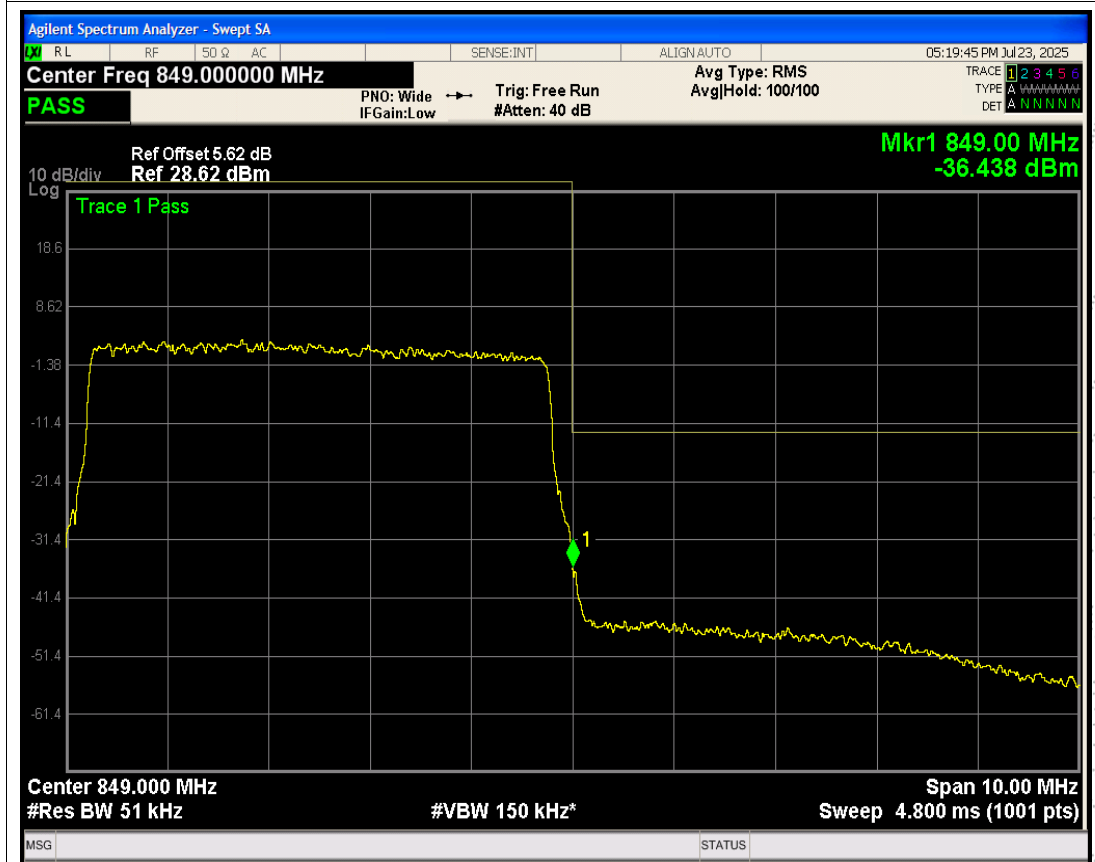
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



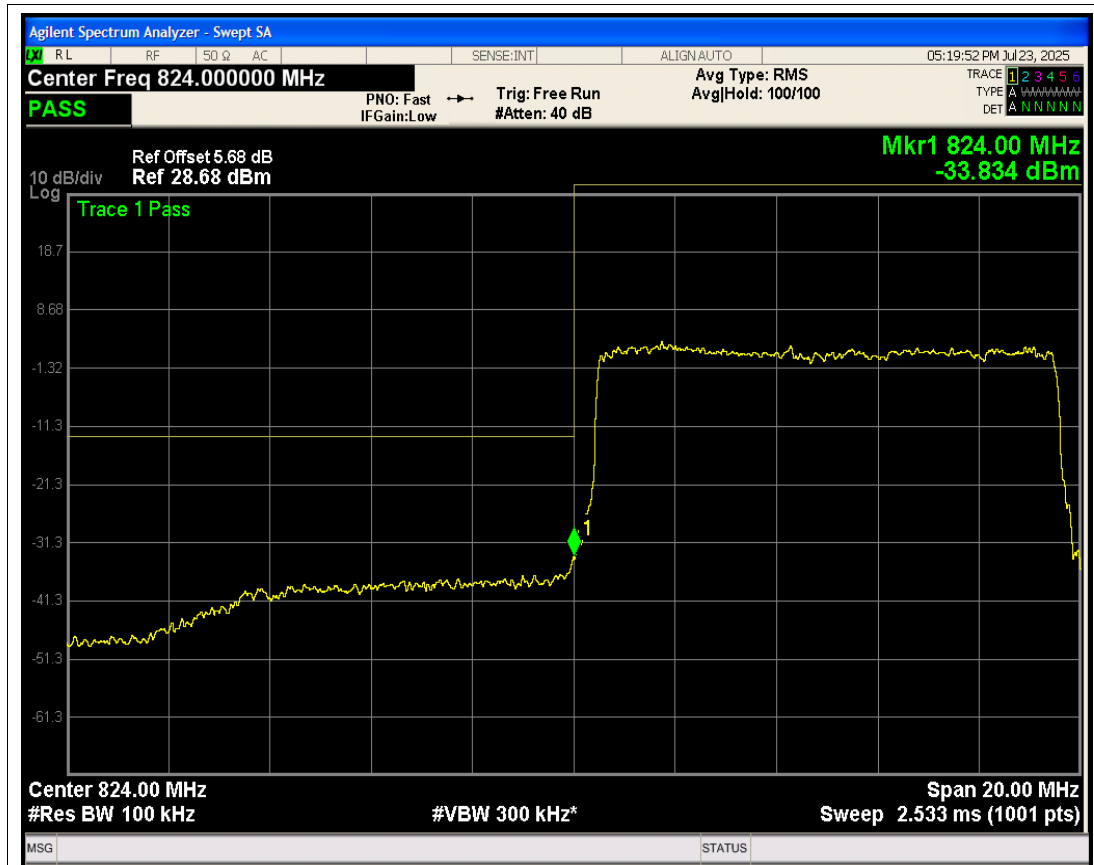
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



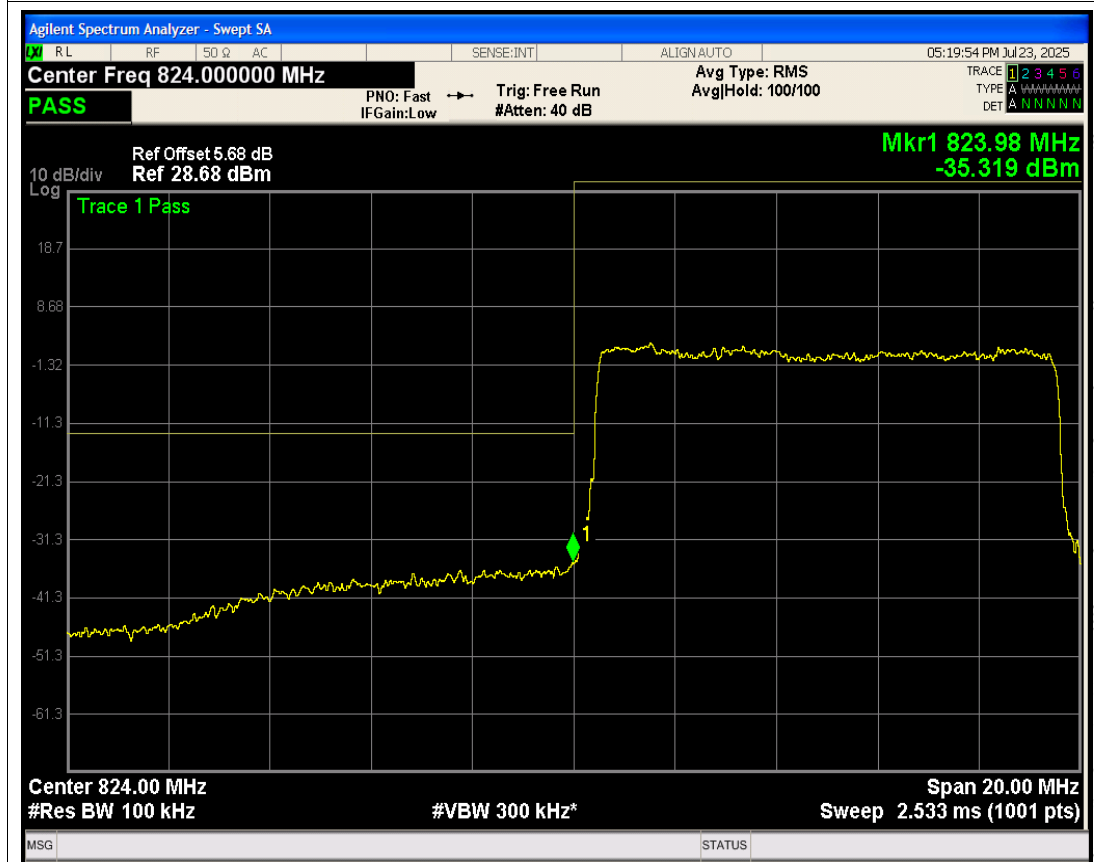
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



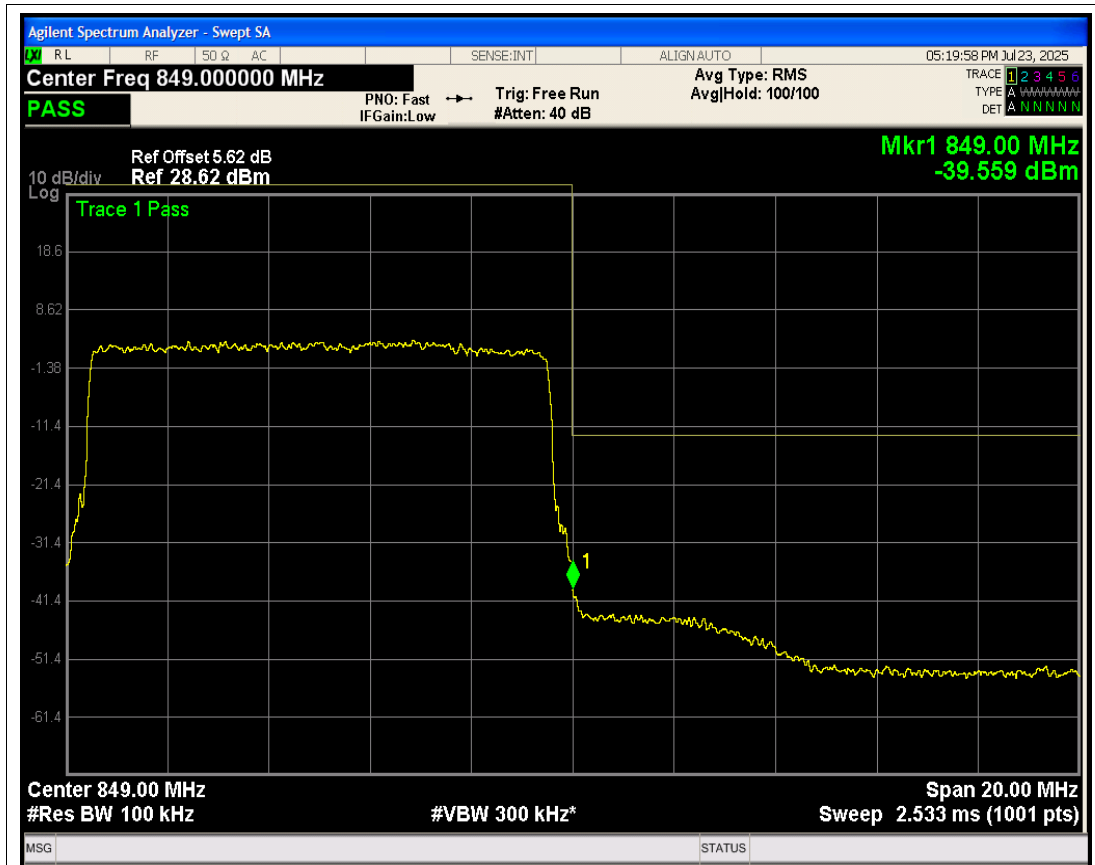
Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



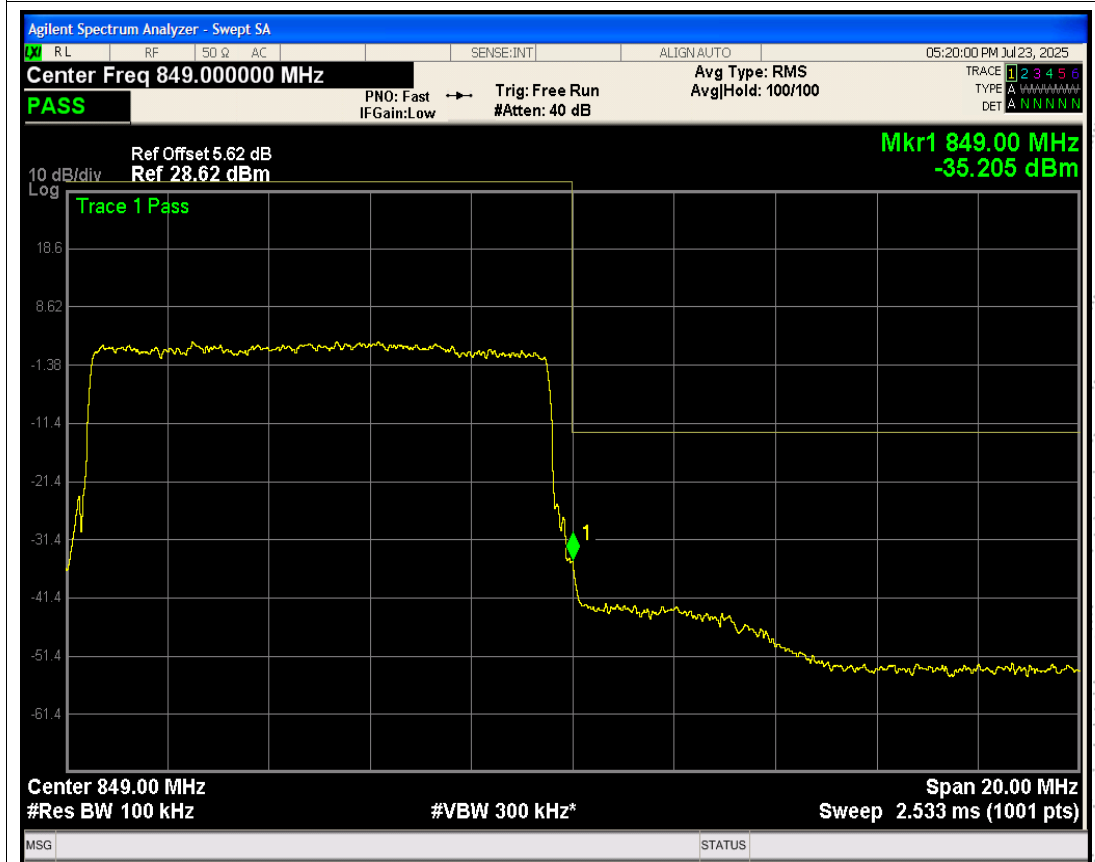
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



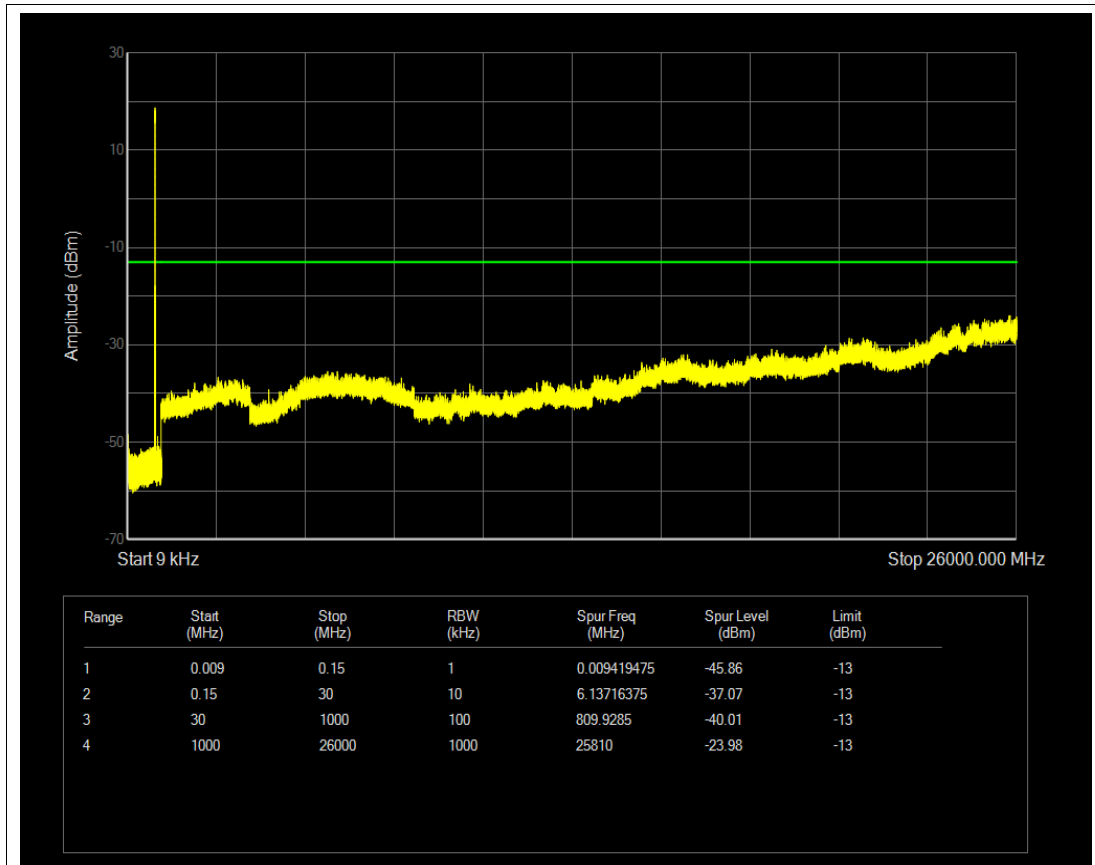
Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT



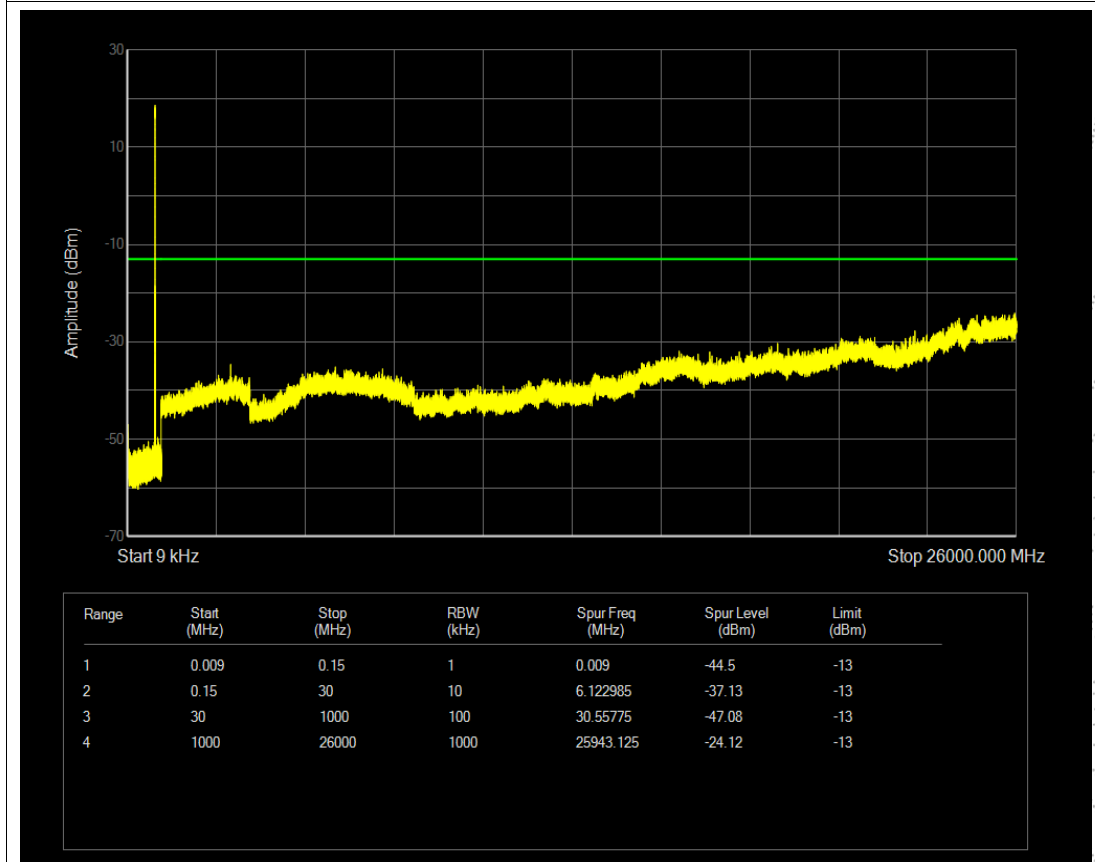
Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT

Appendix 6. Out-of-band emissions

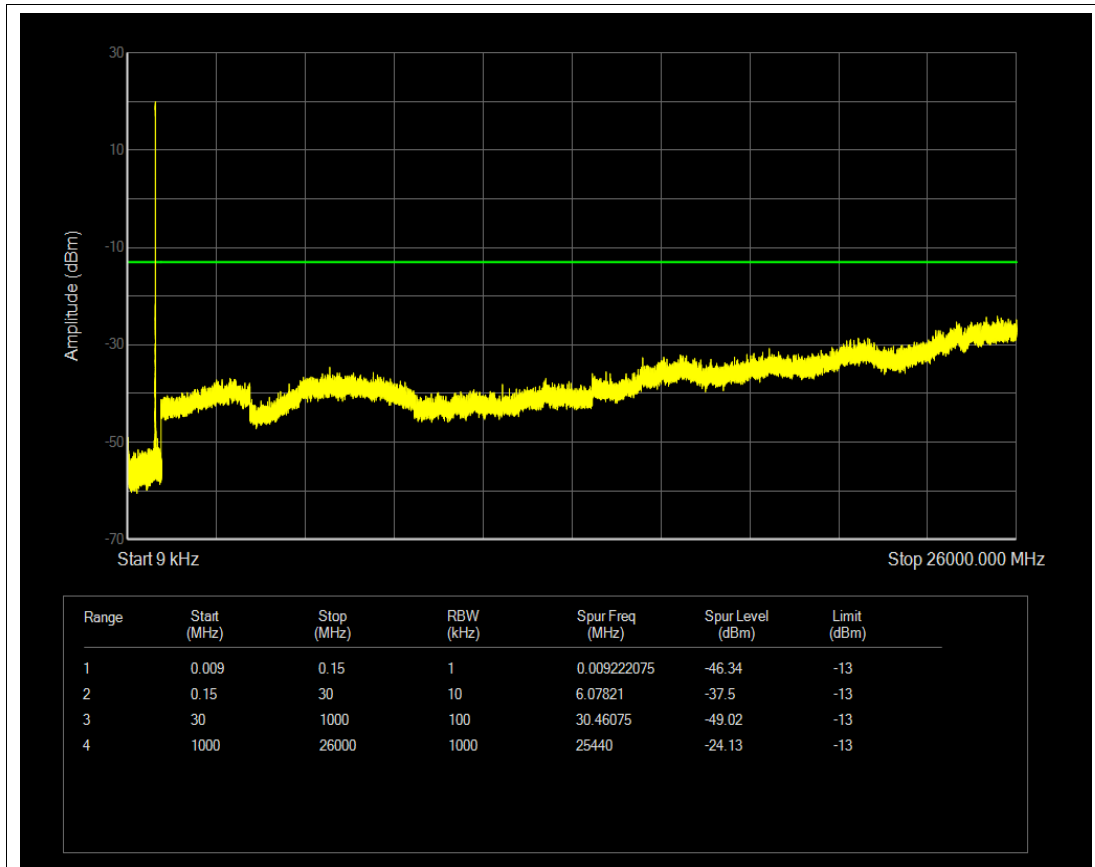
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	25810.00	-23.98	-13	PASS
Band5	1.4	20407	6	#0	16QAM	25943.13	-24.12	-13	PASS
Band5	1.4	20525	6	#0	QPSK	25440.00	-24.13	-13	PASS
Band5	1.4	20525	6	#0	16QAM	25463.13	-23.96	-13	PASS
Band5	1.4	20643	6	#0	QPSK	25884.38	-24.50	-13	PASS
Band5	1.4	20643	6	#0	16QAM	25640.63	-24.30	-13	PASS
Band5	3	20415	15	#0	QPSK	25423.75	-23.57	-13	PASS
Band5	3	20415	15	#0	16QAM	25733.75	-23.98	-13	PASS
Band5	3	20525	15	#0	QPSK	25967.50	-23.54	-13	PASS
Band5	3	20525	15	#0	16QAM	25108.75	-24.18	-13	PASS
Band5	3	20635	15	#0	QPSK	25756.25	-24.48	-13	PASS
Band5	3	20635	15	#0	16QAM	25103.13	-23.95	-13	PASS
Band5	5	20425	25	#0	QPSK	25856.25	-24.46	-13	PASS
Band5	5	20425	25	#0	16QAM	25577.50	-23.80	-13	PASS
Band5	5	20525	25	#0	QPSK	25053.75	-23.91	-13	PASS
Band5	5	20525	25	#0	16QAM	25579.38	-23.45	-13	PASS
Band5	5	20625	25	#0	QPSK	25136.88	-24.23	-13	PASS
Band5	5	20625	25	#0	16QAM	25775.00	-23.61	-13	PASS
Band5	10	20450	50	#0	QPSK	25815.63	-23.64	-13	PASS
Band5	10	20450	50	#0	16QAM	25719.38	-24.32	-13	PASS
Band5	10	20525	50	#0	QPSK	25385.00	-24.44	-13	PASS
Band5	10	20525	50	#0	16QAM	25702.50	-24.11	-13	PASS
Band5	10	20600	50	#0	QPSK	25734.38	-23.77	-13	PASS
Band5	10	20600	50	#0	16QAM	25150.00	-24.15	-13	PASS



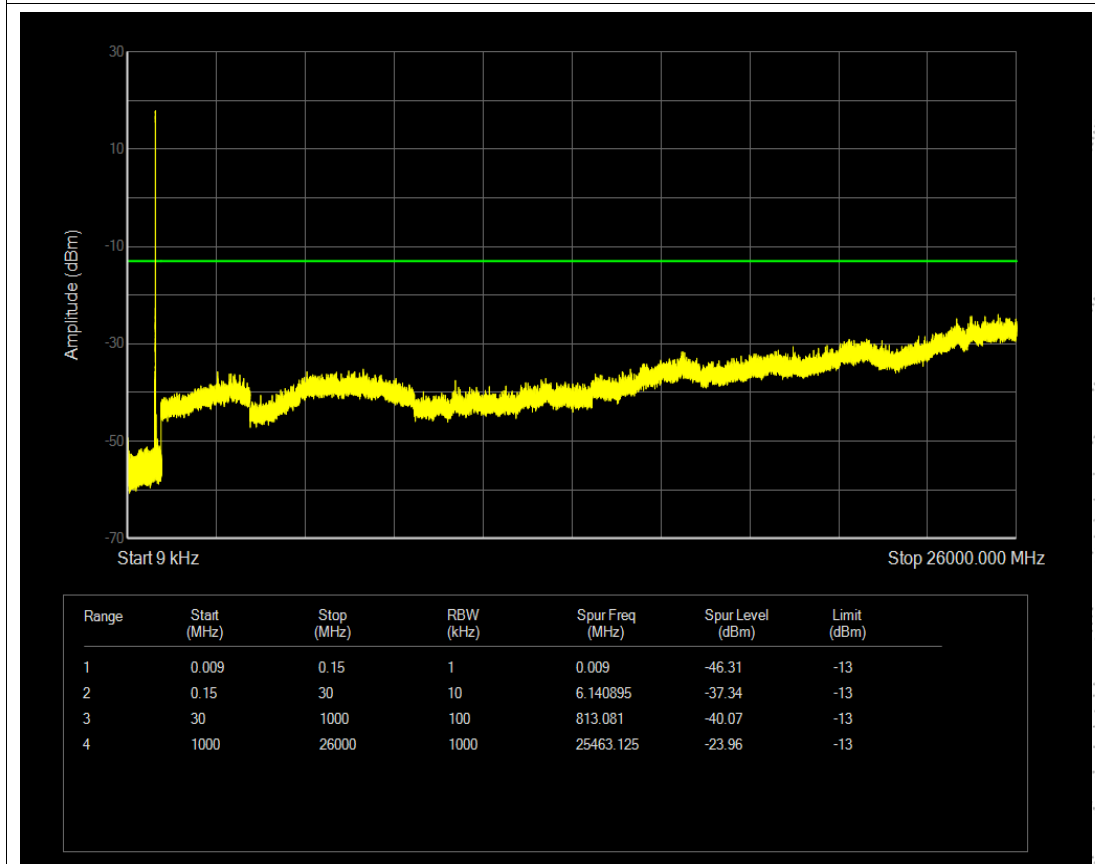
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



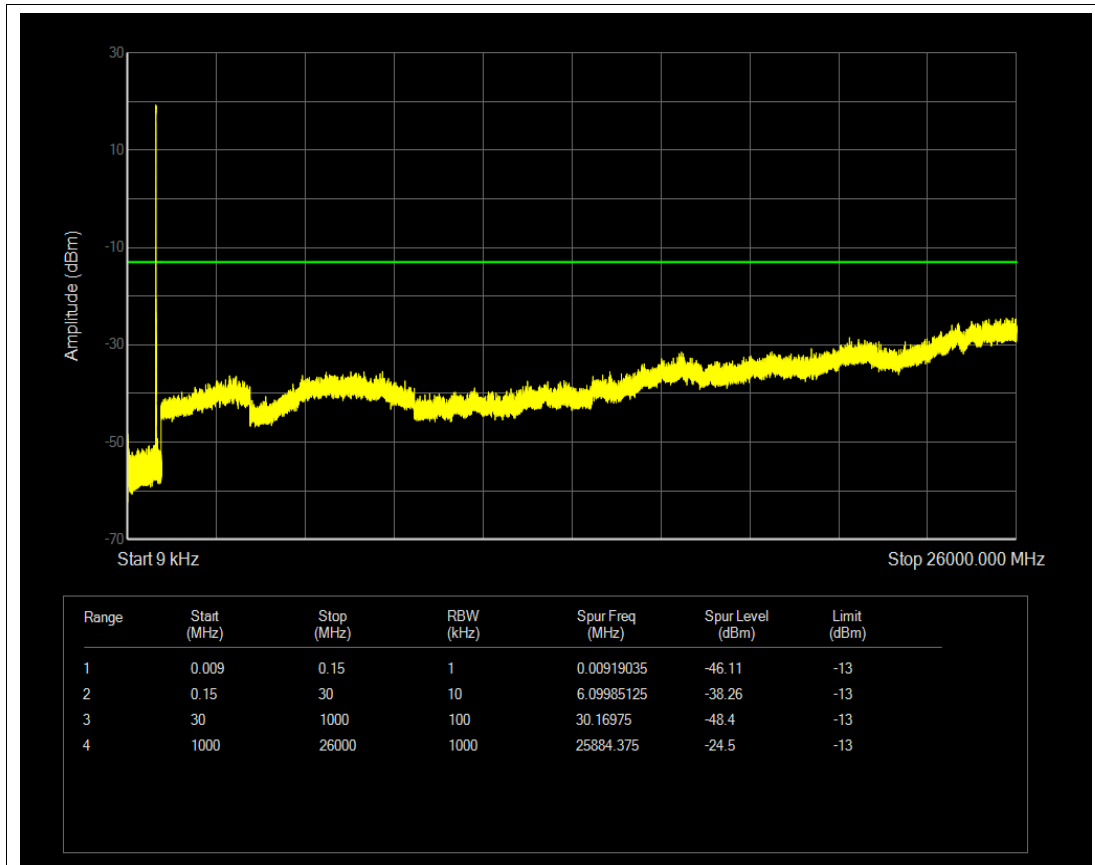
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0 NVNT



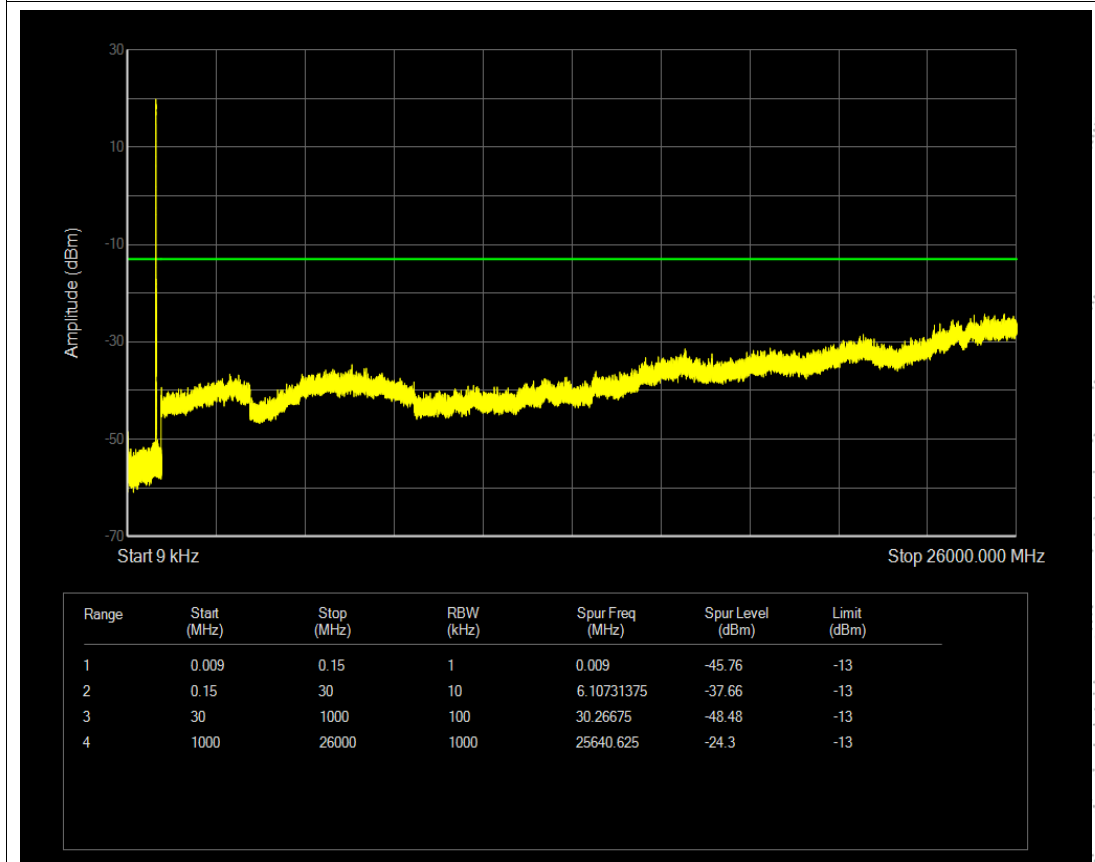
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0 NVNT



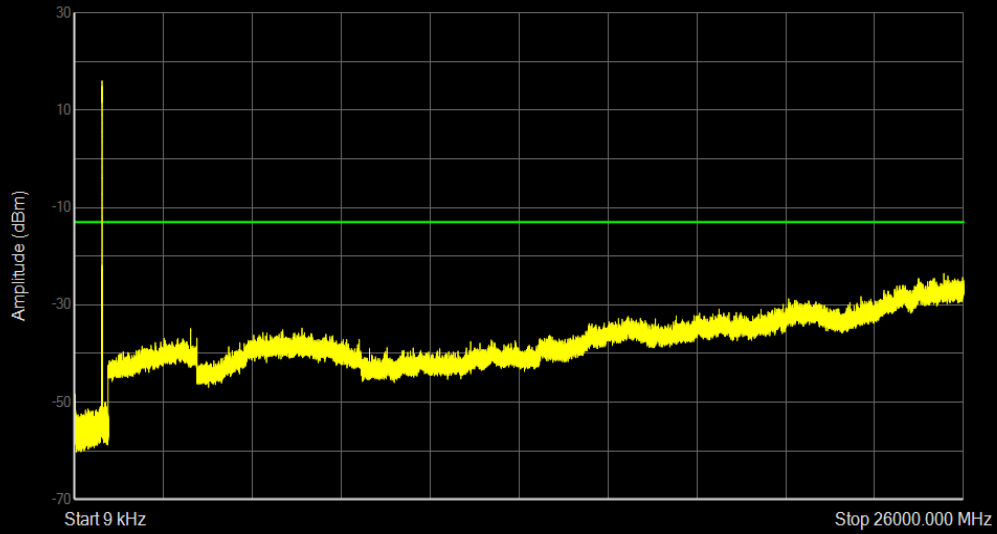
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=6 Position=#0 NVNT



Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT

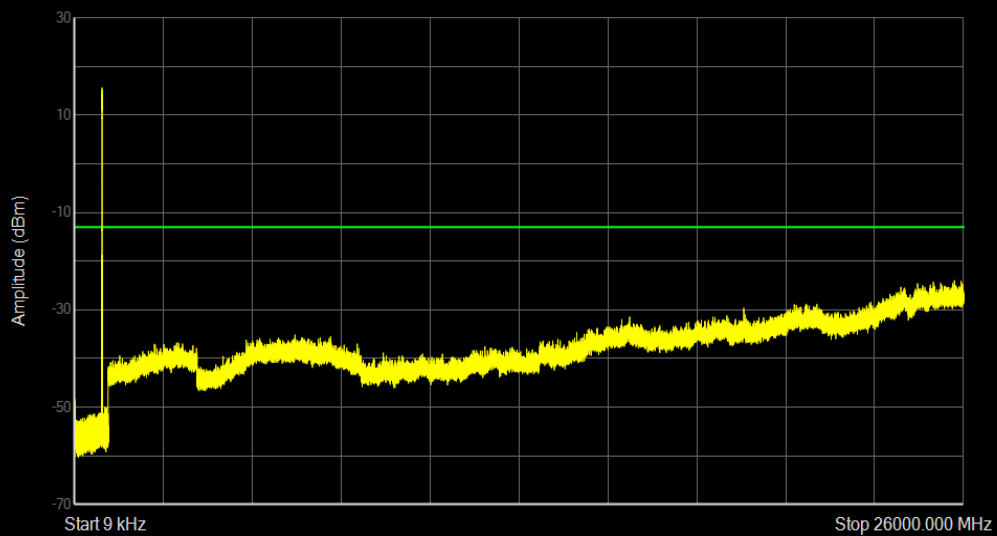


Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0 NVNT



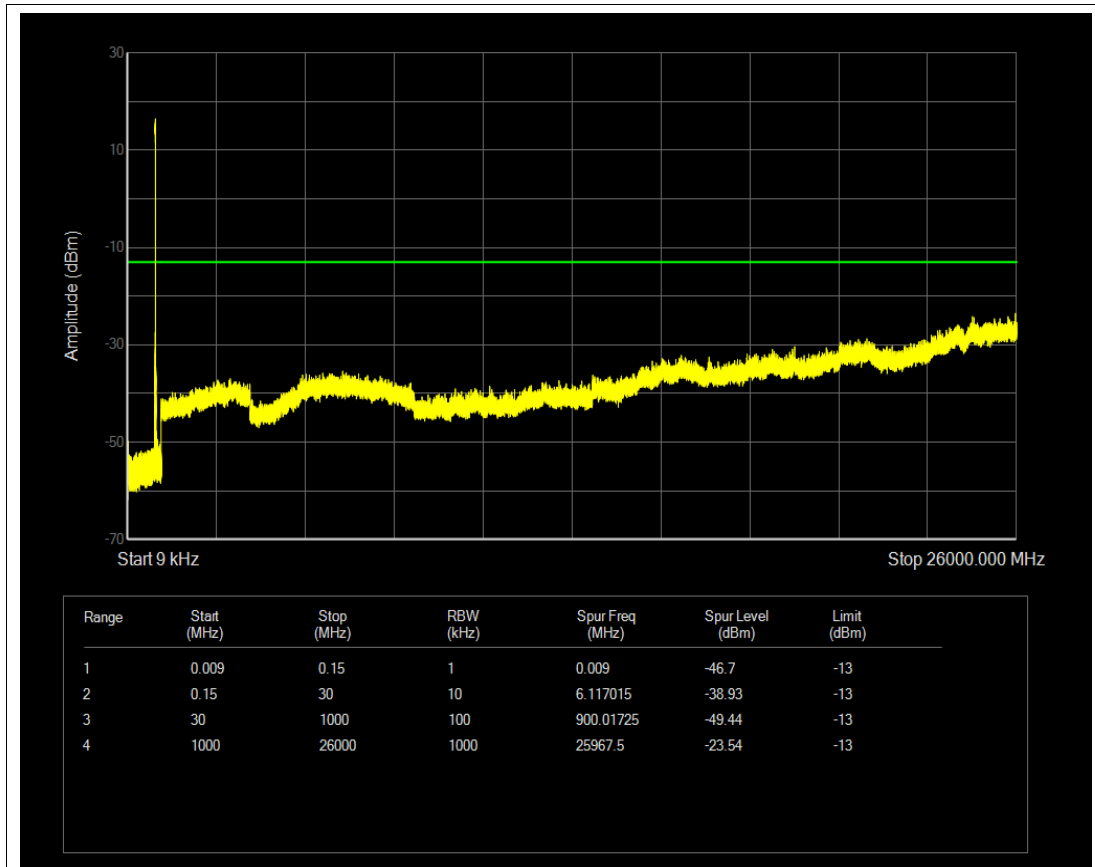
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-44.87	-13
2	0.15	30	10	6.12373125	-36.84	-13
3	30	1000	100	30.75175	-48.39	-13
4	1000	26000	1000	25423.75	-23.57	-13

Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT

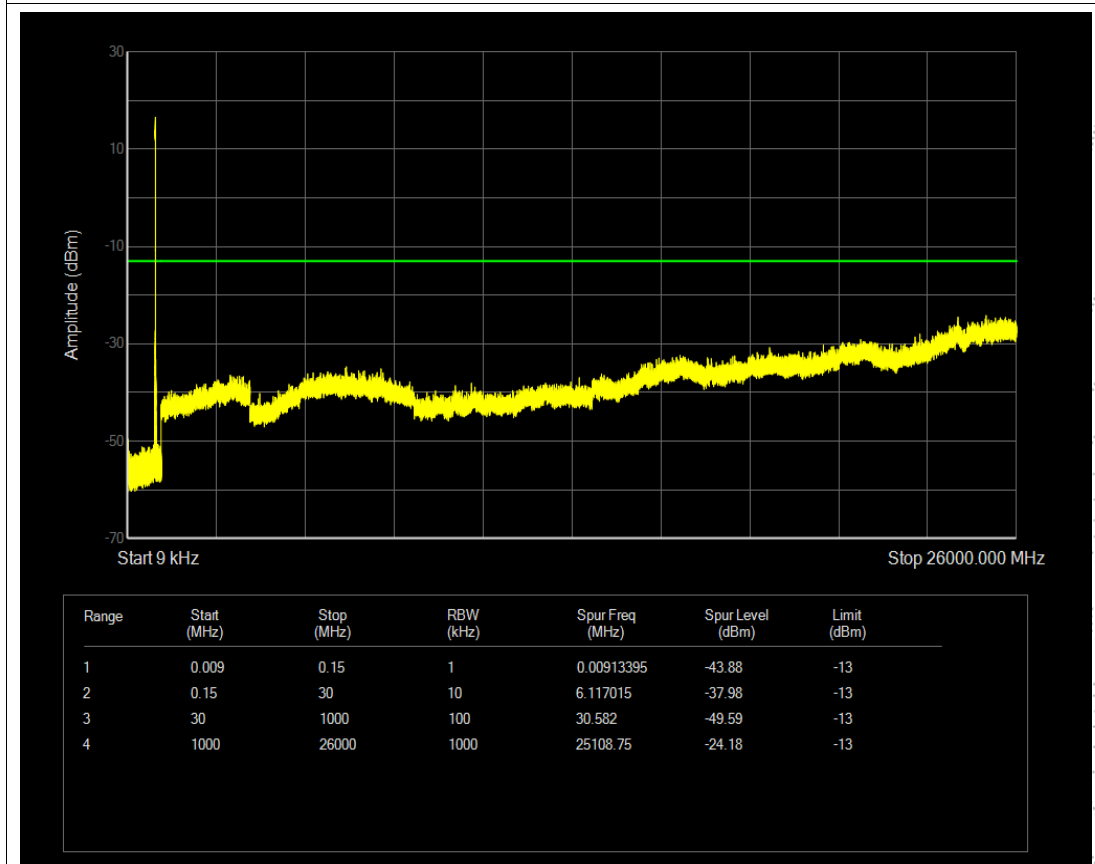


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.115314	-46.35	-13
2	0.15	30	10	6.063285	-38.17	-13
3	30	1000	100	30.388	-48.48	-13
4	1000	26000	1000	25733.75	-23.98	-13

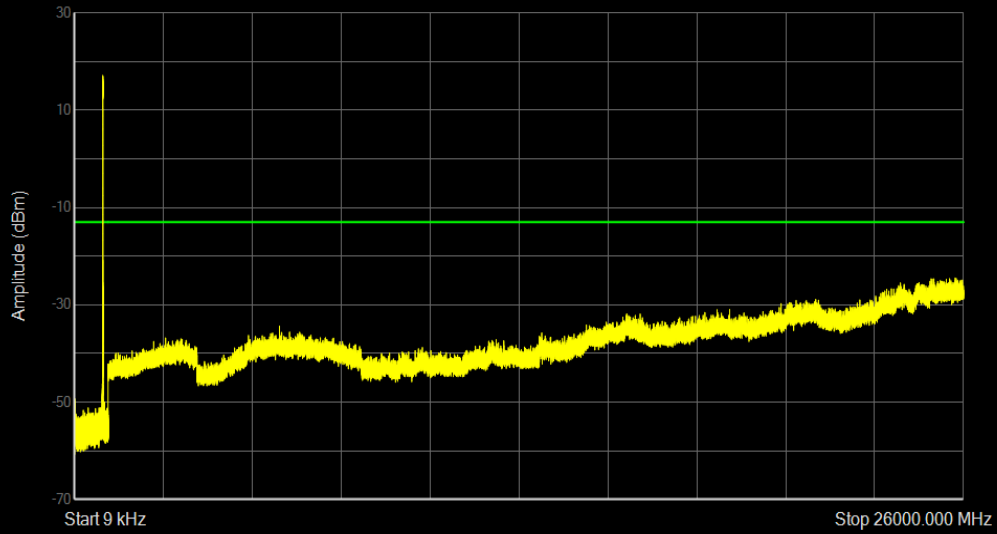
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0 NVNT



Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0 NVNT

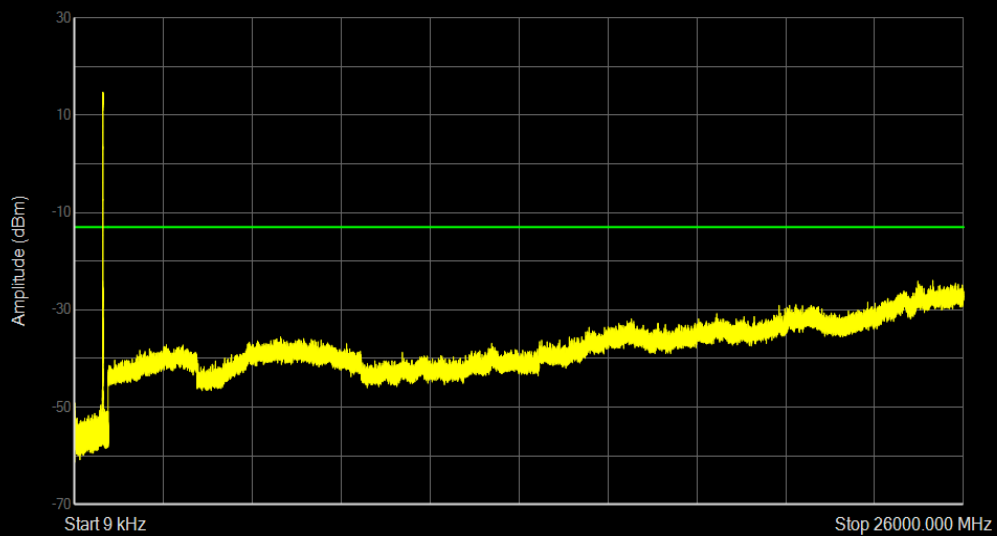


Band5 16QAM BW=3MHz Channel=20525 RB Size=15 Position=#0 NVNT



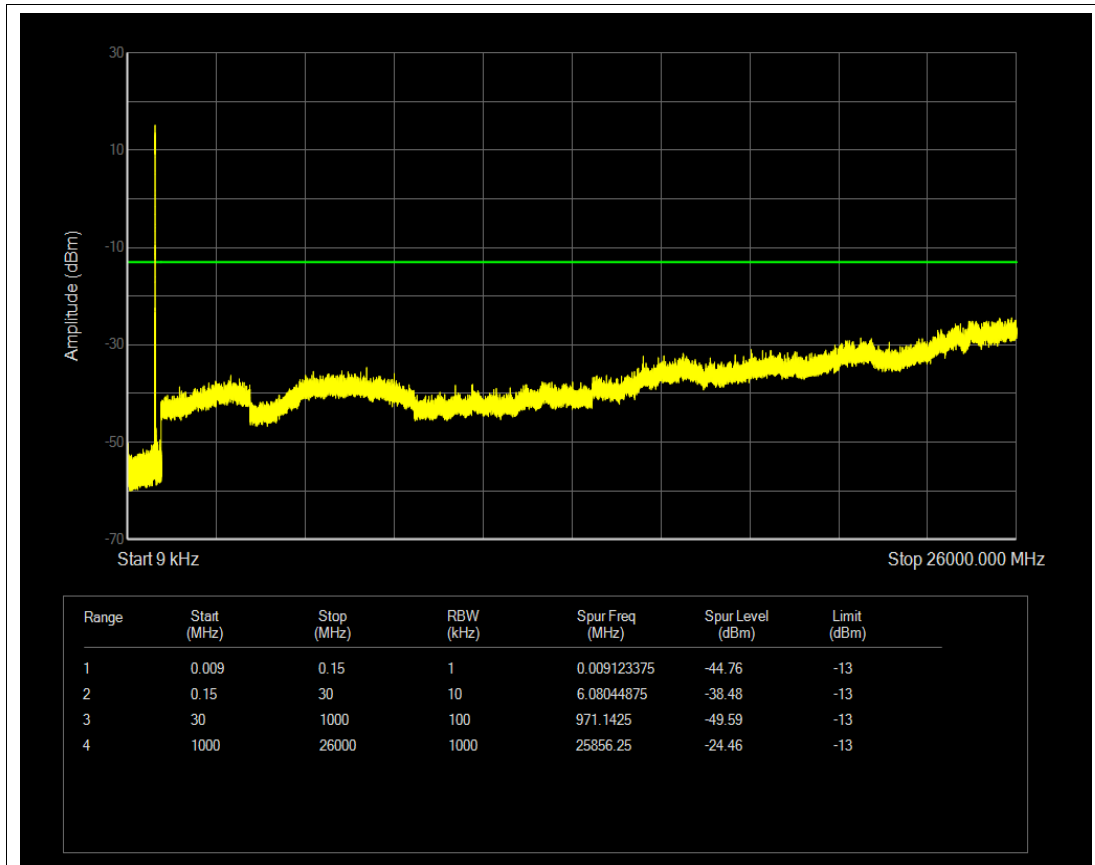
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009912975	-46.05	-13
2	0.15	30	10	6.4677525	-37.61	-13
3	30	1000	100	30.80025	-49.37	-13
4	1000	26000	1000	25756.25	-24.48	-13

Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT

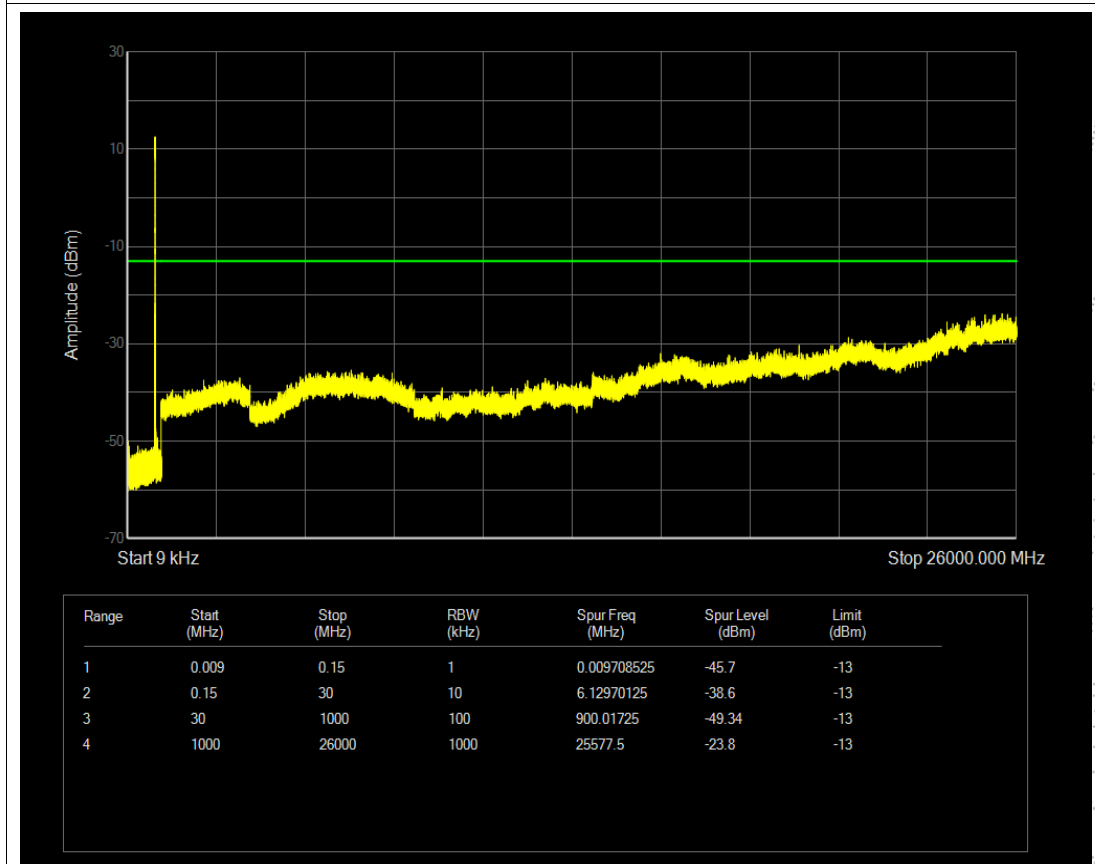


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0098178	-46.54	-13
2	0.15	30	10	6.111045	-38.32	-13
3	30	1000	100	30.41225	-49.16	-13
4	1000	26000	1000	25103.125	-23.95	-13

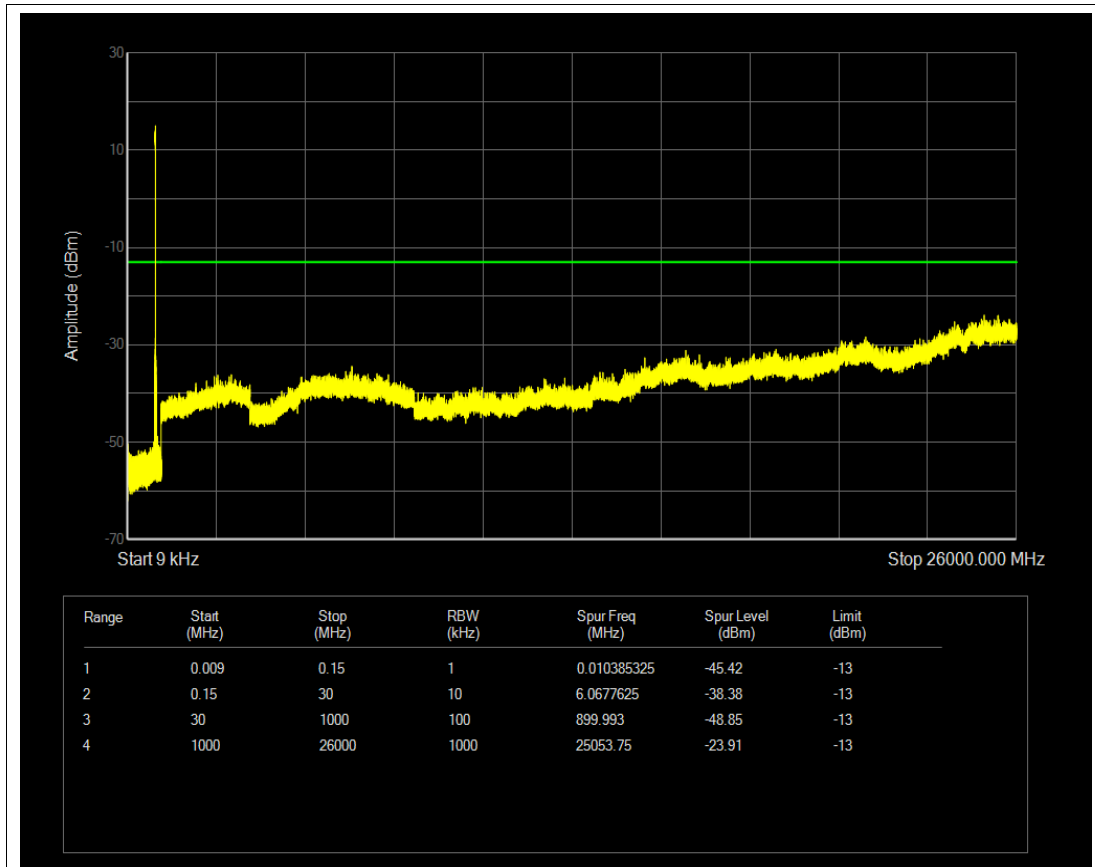
Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0 NVNT



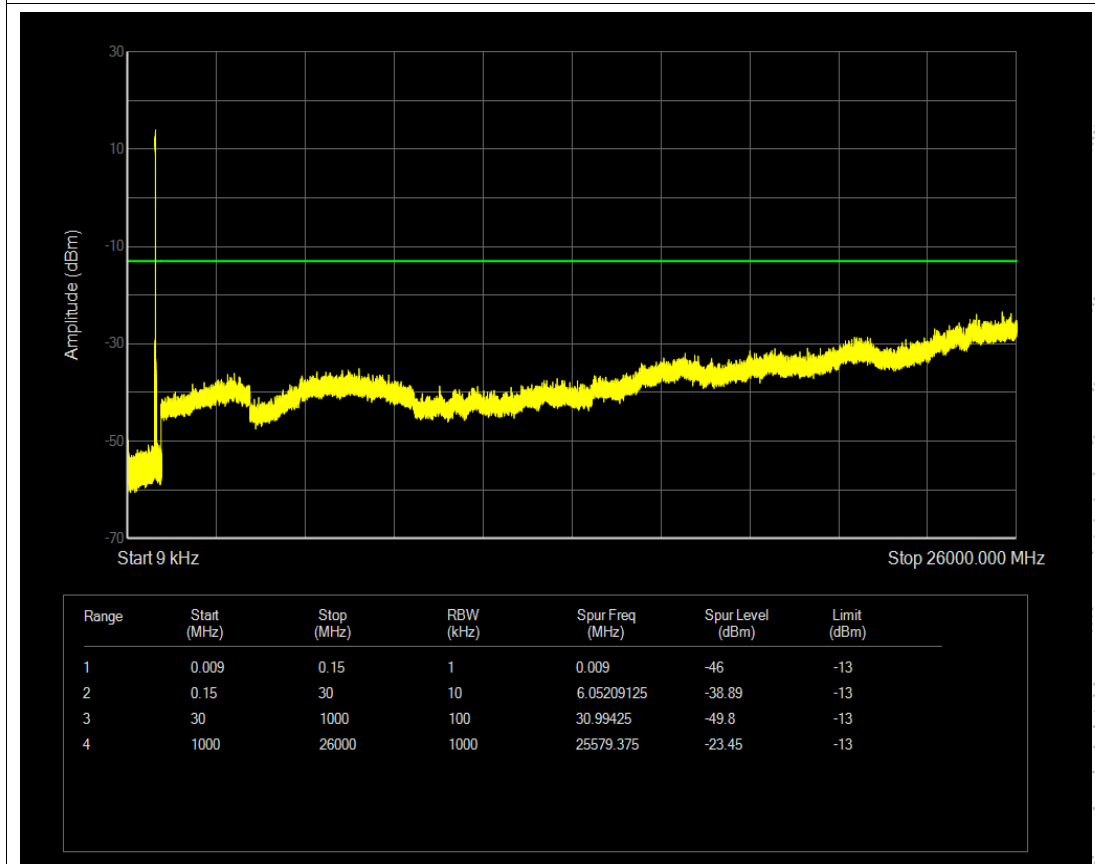
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



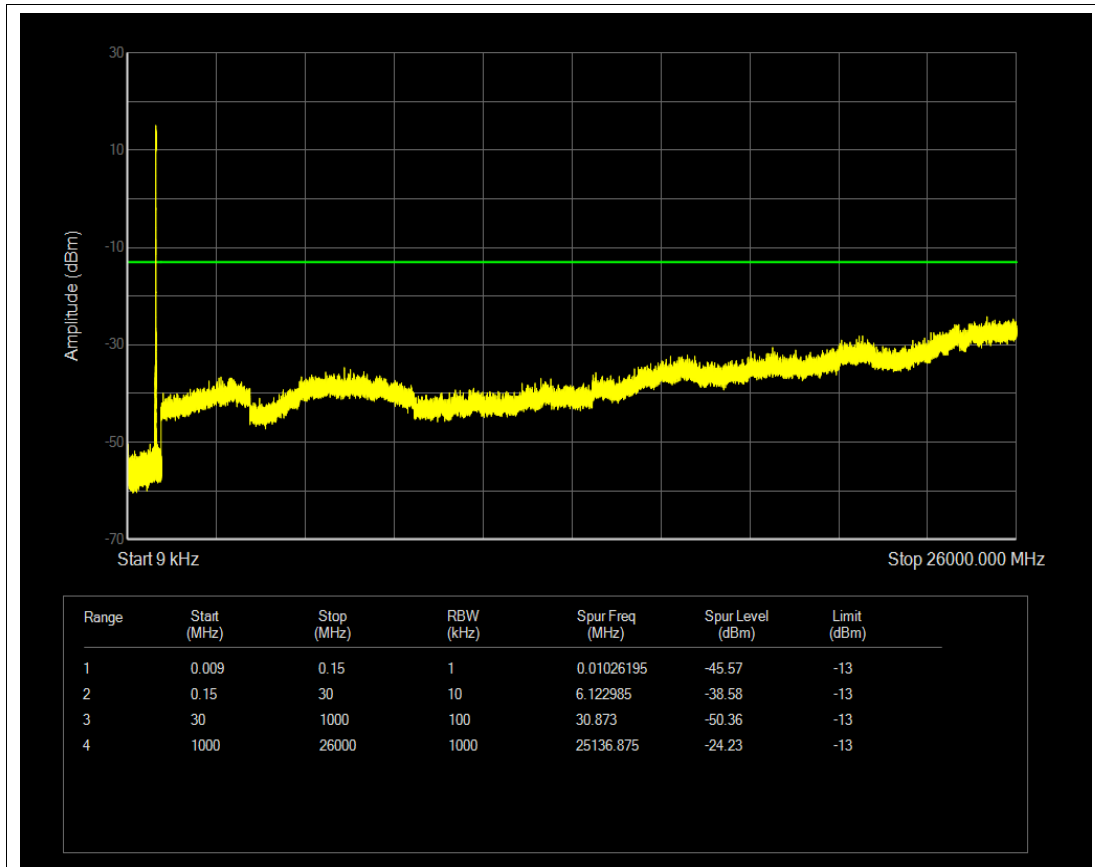
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0 NVNT



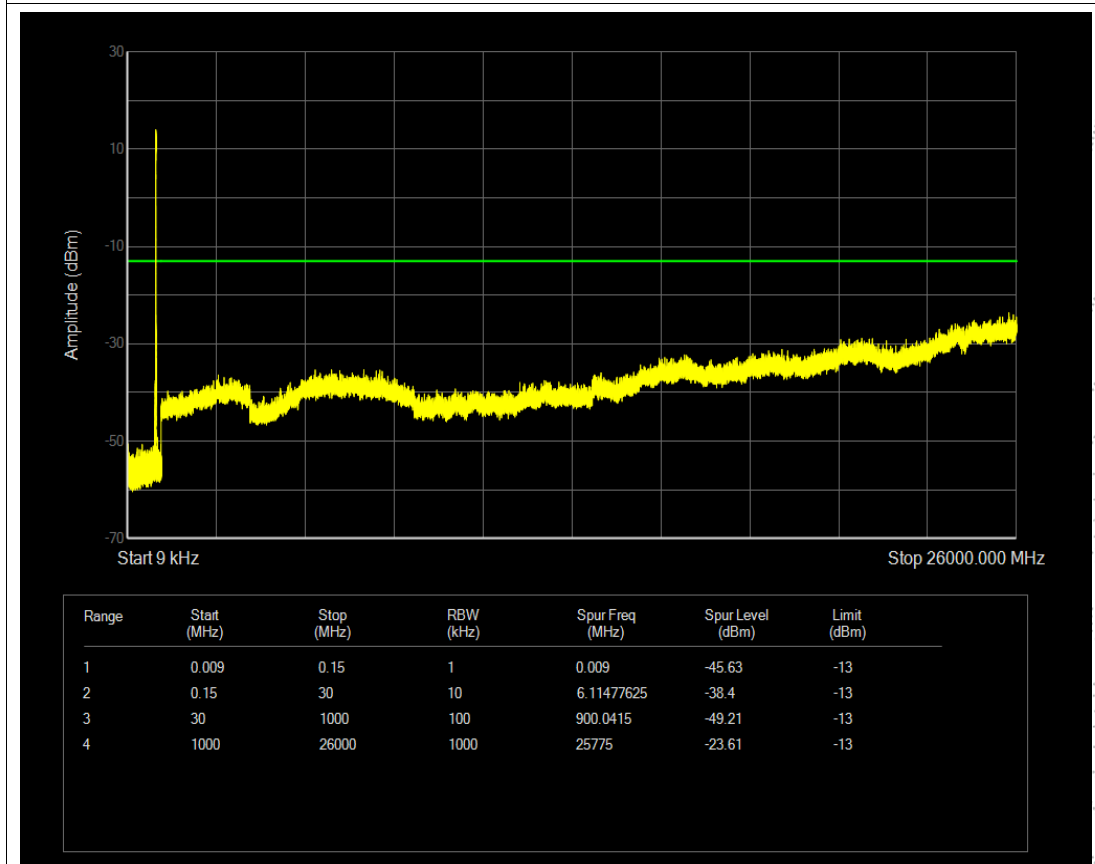
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0 NVNT



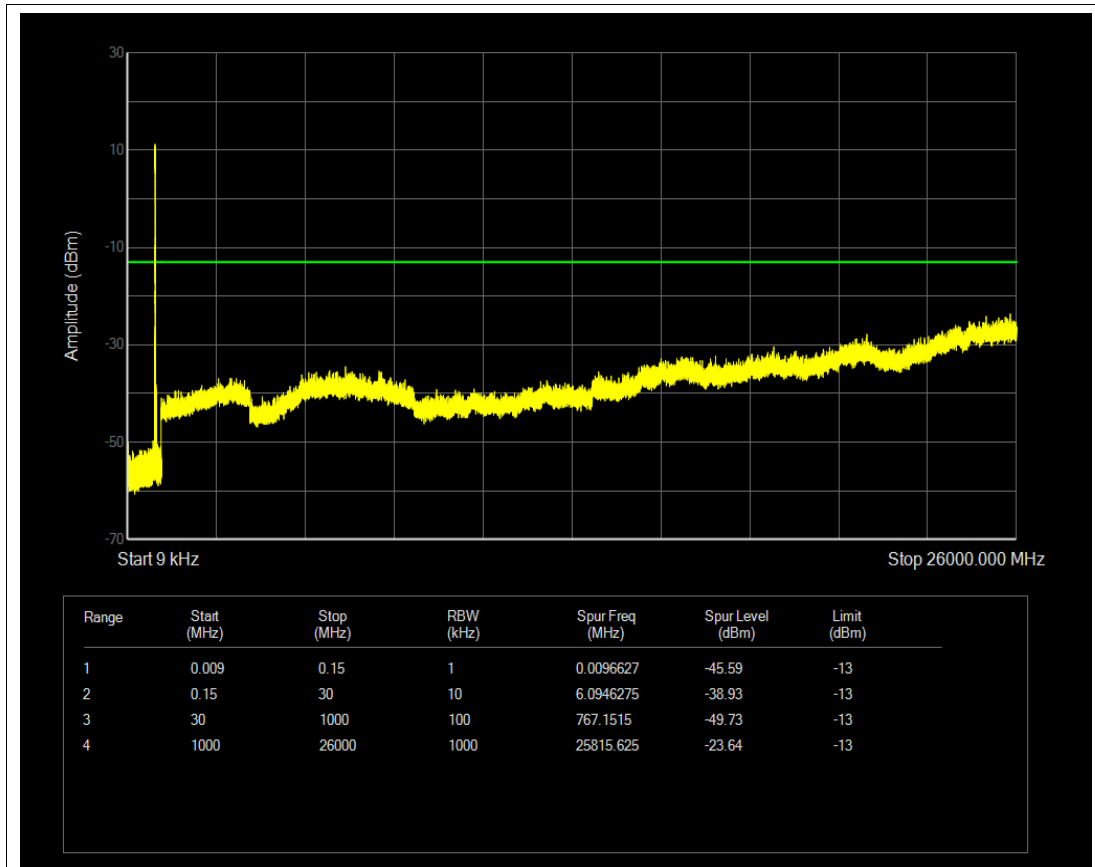
Band5 16QAM BW=5MHz Channel=20525 RB Size=25 Position=#0 NVNT



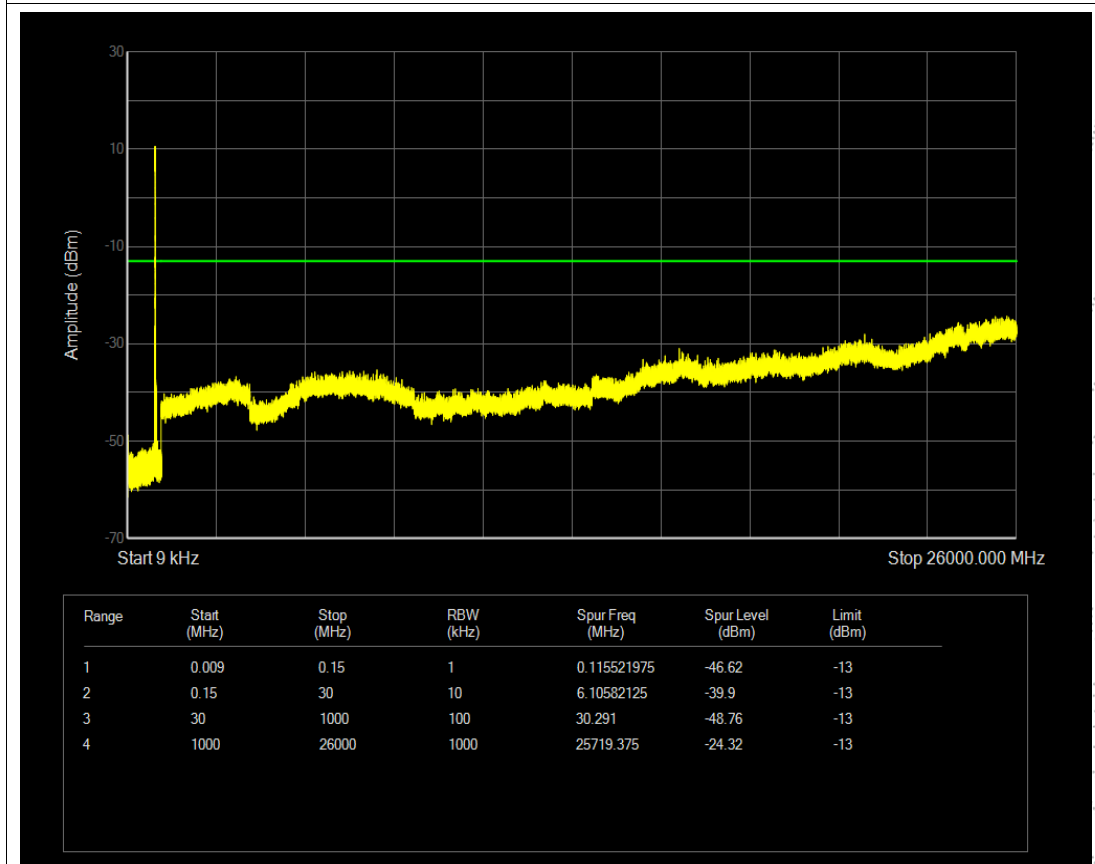
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



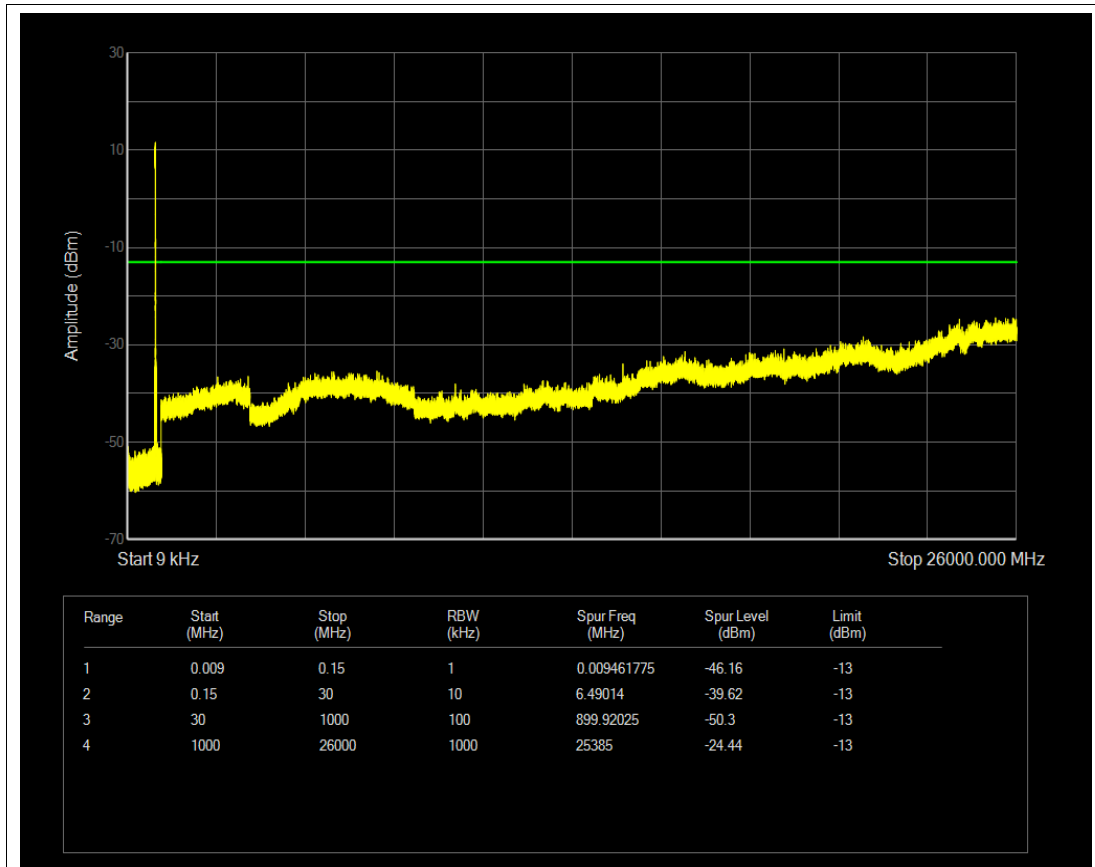
Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0 NVNT



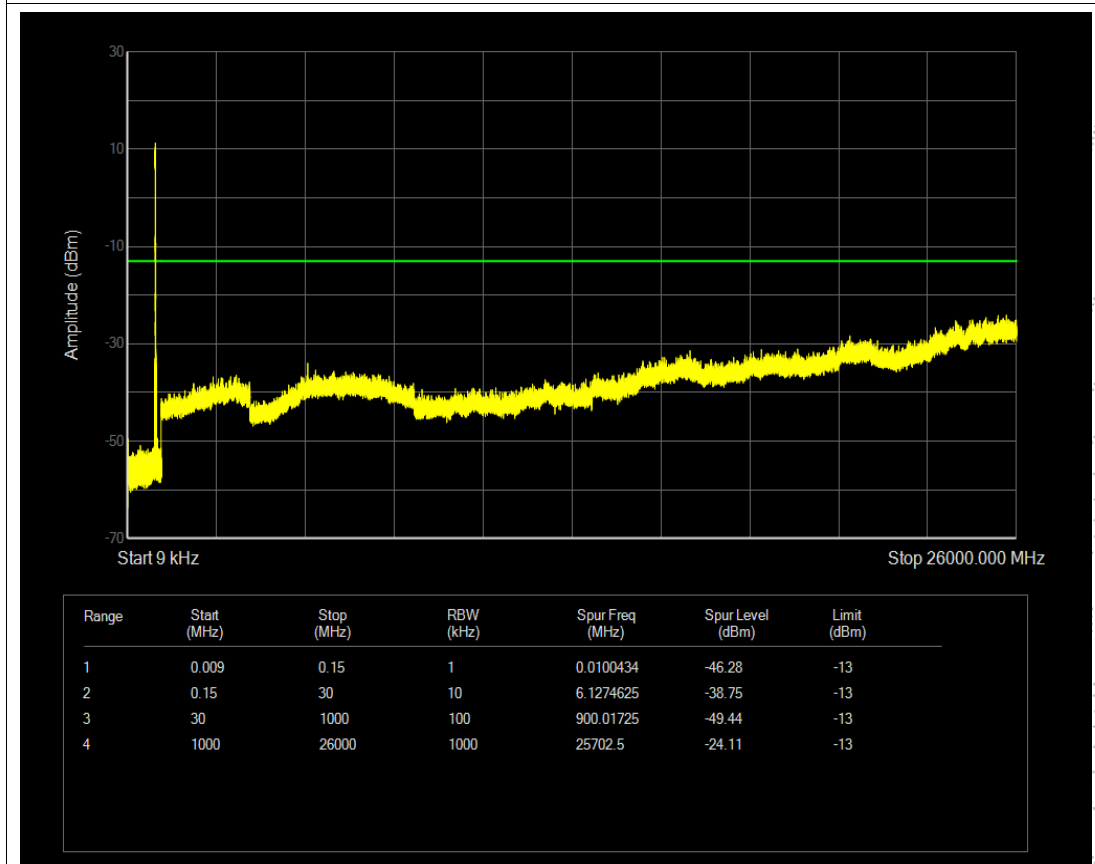
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



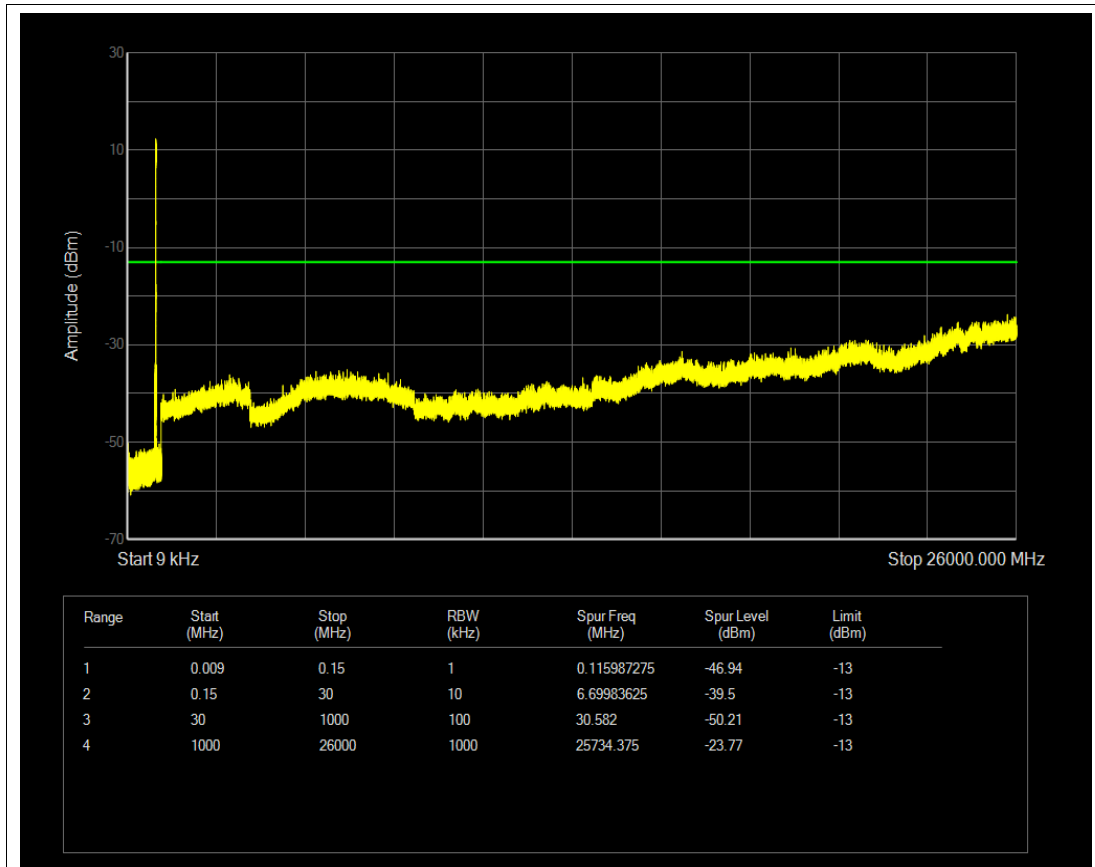
Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0 NVNT



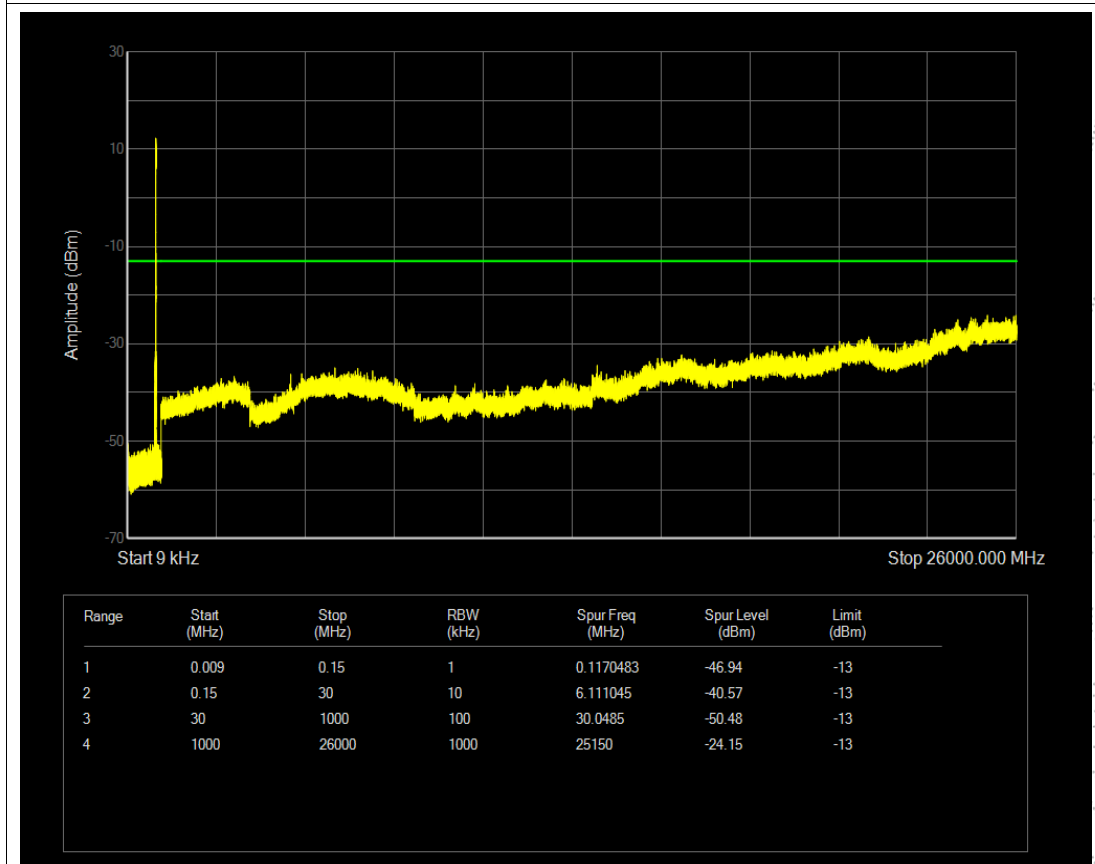
Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0 NVNT



Band5 16QAM BW=10MHz Channel=20525 RB Size=50 Position=#0 NVNT



Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT



Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0 NVNT