

Appendix for Band 5

Report No.: BCTC2309367965-2E

Applicant: Arize Corporation

Product Name: Smart Hub

Model/Type
reference: ASH120

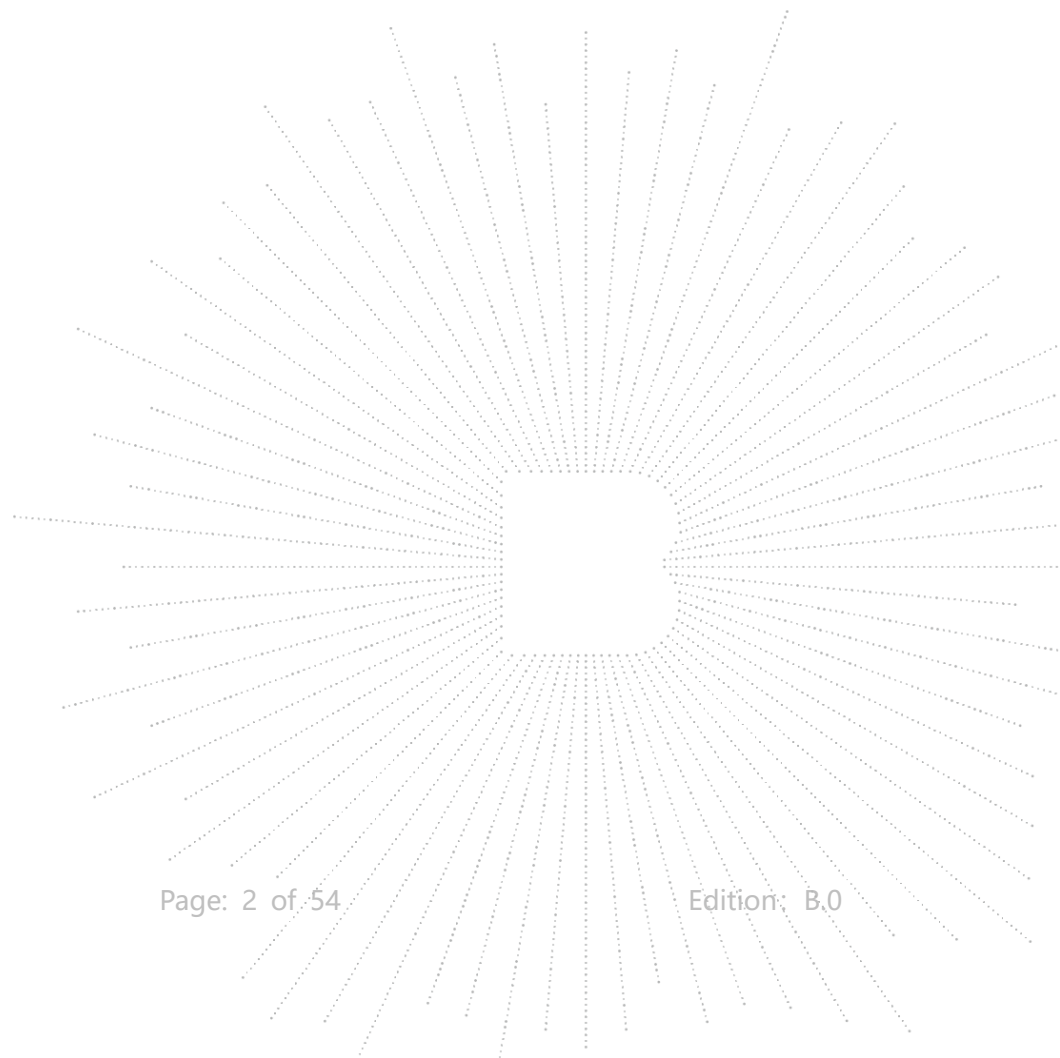
Tested Date: 2023-09-26 to 2023-11-03

Issued Date: 2023-11-03

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)	Gain (dBm)	ERP (dBm)	Verdict
Band5	1.4	20407	1	#0	QPSK	22.15	3.61	23.61	PASS
Band5	1.4	20407	1	#Mid	QPSK	22.41	3.61	23.87	PASS
Band5	1.4	20407	1	#Max	QPSK	22.16	3.61	23.62	PASS
Band5	1.4	20407	3	#0	QPSK	22.16	3.61	23.62	PASS
Band5	1.4	20407	3	#Mid	QPSK	22.21	3.61	23.67	PASS
Band5	1.4	20407	3	#Max	QPSK	22.32	3.61	23.78	PASS
Band5	1.4	20407	6	#0	QPSK	21.29	3.61	22.75	PASS
Band5	1.4	20407	1	#0	16QAM	21.07	3.61	22.53	PASS
Band5	1.4	20407	1	#Mid	16QAM	21.17	3.61	22.63	PASS
Band5	1.4	20407	1	#Max	16QAM	21.03	3.61	22.49	PASS
Band5	1.4	20407	3	#0	16QAM	21.03	3.61	22.49	PASS
Band5	1.4	20407	3	#Mid	16QAM	21.40	3.61	22.86	PASS
Band5	1.4	20407	3	#Max	16QAM	21.52	3.61	22.98	PASS
Band5	1.4	20407	6	#0	16QAM	20.27	3.61	21.73	PASS
Band5	1.4	20525	1	#0	QPSK	22.34	3.61	23.80	PASS
Band5	1.4	20525	1	#Mid	QPSK	22.40	3.61	23.86	PASS
Band5	1.4	20525	1	#Max	QPSK	22.19	3.61	23.65	PASS
Band5	1.4	20525	3	#0	QPSK	22.37	3.61	23.83	PASS
Band5	1.4	20525	3	#Mid	QPSK	22.51	3.61	23.97	PASS
Band5	1.4	20525	3	#Max	QPSK	22.47	3.61	23.93	PASS
Band5	1.4	20525	6	#0	QPSK	21.38	3.61	22.84	PASS
Band5	1.4	20525	1	#0	16QAM	21.25	3.61	22.71	PASS
Band5	1.4	20525	1	#Mid	16QAM	21.53	3.61	22.99	PASS
Band5	1.4	20525	1	#Max	16QAM	21.39	3.61	22.85	PASS
Band5	1.4	20525	3	#0	16QAM	21.59	3.61	23.05	PASS
Band5	1.4	20525	3	#Mid	16QAM	21.64	3.61	23.10	PASS
Band5	1.4	20525	3	#Max	16QAM	21.61	3.61	23.07	PASS
Band5	1.4	20525	6	#0	16QAM	20.70	3.61	22.16	PASS
Band5	1.4	20643	1	#0	QPSK	22.40	3.61	23.86	PASS
Band5	1.4	20643	1	#Mid	QPSK	22.53	3.61	23.99	PASS
Band5	1.4	20643	1	#Max	QPSK	22.12	3.61	23.58	PASS
Band5	1.4	20643	3	#0	QPSK	22.44	3.61	23.90	PASS
Band5	1.4	20643	3	#Mid	QPSK	22.38	3.61	23.84	PASS
Band5	1.4	20643	3	#Max	QPSK	22.24	3.61	23.70	PASS
Band5	1.4	20643	6	#0	QPSK	21.38	3.61	22.84	PASS
Band5	1.4	20643	1	#0	16QAM	21.28	3.61	22.74	PASS
Band5	1.4	20643	1	#Mid	16QAM	21.22	3.61	22.68	PASS

Band5	1.4	20643	1	#Max	16QAM	21.25	3.61	22.71	PASS
Band5	1.4	20643	3	#0	16QAM	21.19	3.61	22.65	PASS
Band5	1.4	20643	3	#Mid	16QAM	21.12	3.61	22.58	PASS
Band5	1.4	20643	3	#Max	16QAM	20.91	3.61	22.37	PASS
Band5	1.4	20643	6	#0	16QAM	20.35	3.61	21.81	PASS
Band5	3	20415	1	#0	QPSK	22.25	3.61	23.71	PASS
Band5	3	20415	1	#Mid	QPSK	22.41	3.61	23.87	PASS
Band5	3	20415	1	#Max	QPSK	22.47	3.61	23.93	PASS
Band5	3	20415	8	#0	QPSK	21.36	3.61	22.82	PASS
Band5	3	20415	8	#Mid	QPSK	21.38	3.61	22.84	PASS
Band5	3	20415	8	#Max	QPSK	21.44	3.61	22.90	PASS
Band5	3	20415	15	#0	QPSK	21.24	3.61	22.70	PASS
Band5	3	20415	1	#0	16QAM	21.95	3.61	23.41	PASS
Band5	3	20415	1	#Mid	16QAM	22.22	3.61	23.68	PASS
Band5	3	20415	1	#Max	16QAM	22.19	3.61	23.65	PASS
Band5	3	20415	8	#0	16QAM	20.65	3.61	22.11	PASS
Band5	3	20415	8	#Mid	16QAM	20.67	3.61	22.13	PASS
Band5	3	20415	8	#Max	16QAM	20.72	3.61	22.18	PASS
Band5	3	20415	15	#0	16QAM	20.33	3.61	21.79	PASS
Band5	3	20525	1	#0	QPSK	22.56	3.61	24.02	PASS
Band5	3	20525	1	#Mid	QPSK	22.53	3.61	23.99	PASS
Band5	3	20525	1	#Max	QPSK	22.50	3.61	23.96	PASS
Band5	3	20525	8	#0	QPSK	21.66	3.61	23.12	PASS
Band5	3	20525	8	#Mid	QPSK	21.58	3.61	23.04	PASS
Band5	3	20525	8	#Max	QPSK	21.56	3.61	23.02	PASS
Band5	3	20525	15	#0	QPSK	21.55	3.61	23.01	PASS
Band5	3	20525	1	#0	16QAM	21.20	3.61	22.66	PASS
Band5	3	20525	1	#Mid	16QAM	21.46	3.61	22.92	PASS
Band5	3	20525	1	#Max	16QAM	21.23	3.61	22.69	PASS
Band5	3	20525	8	#0	16QAM	20.40	3.61	21.86	PASS
Band5	3	20525	8	#Mid	16QAM	20.35	3.61	21.81	PASS
Band5	3	20525	8	#Max	16QAM	20.32	3.61	21.78	PASS
Band5	3	20525	15	#0	16QAM	20.47	3.61	21.93	PASS
Band5	3	20635	1	#0	QPSK	22.56	3.61	24.02	PASS
Band5	3	20635	1	#Mid	QPSK	22.45	3.61	23.91	PASS
Band5	3	20635	1	#Max	QPSK	22.11	3.61	23.57	PASS
Band5	3	20635	8	#0	QPSK	21.52	3.61	22.98	PASS
Band5	3	20635	8	#Mid	QPSK	21.37	3.61	22.83	PASS
Band5	3	20635	8	#Max	QPSK	21.32	3.61	22.78	PASS
Band5	3	20635	15	#0	QPSK	21.49	3.61	22.95	PASS
Band5	3	20635	1	#0	16QAM	21.31	3.61	22.77	PASS
Band5	3	20635	1	#Mid	16QAM	21.30	3.61	22.76	PASS

Band5	3	20635	1	#Max	16QAM	20.96	3.61	22.42	PASS
Band5	3	20635	8	#0	16QAM	20.59	3.61	22.05	PASS
Band5	3	20635	8	#Mid	16QAM	20.36	3.61	21.82	PASS
Band5	3	20635	8	#Max	16QAM	20.10	3.61	21.56	PASS
Band5	3	20635	15	#0	16QAM	20.42	3.61	21.88	PASS
Band5	5	20425	1	#0	QPSK	22.17	3.61	23.63	PASS
Band5	5	20425	1	#Mid	QPSK	22.53	3.61	23.99	PASS
Band5	5	20425	1	#Max	QPSK	22.38	3.61	23.84	PASS
Band5	5	20425	12	#0	QPSK	21.24	3.61	22.70	PASS
Band5	5	20425	12	#Mid	QPSK	21.48	3.61	22.94	PASS
Band5	5	20425	12	#Max	QPSK	21.40	3.61	22.86	PASS
Band5	5	20425	25	#0	QPSK	21.39	3.61	22.85	PASS
Band5	5	20425	1	#0	16QAM	21.34	3.61	22.80	PASS
Band5	5	20425	1	#Mid	16QAM	21.47	3.61	22.93	PASS
Band5	5	20425	1	#Max	16QAM	21.45	3.61	22.91	PASS
Band5	5	20425	12	#0	16QAM	20.10	3.61	21.56	PASS
Band5	5	20425	12	#Mid	16QAM	20.14	3.61	21.60	PASS
Band5	5	20425	12	#Max	16QAM	20.20	3.61	21.66	PASS
Band5	5	20425	25	#0	16QAM	20.49	3.61	21.95	PASS
Band5	5	20525	1	#0	QPSK	22.08	3.61	23.54	PASS
Band5	5	20525	1	#Mid	QPSK	22.36	3.61	23.82	PASS
Band5	5	20525	1	#Max	QPSK	22.26	3.61	23.72	PASS
Band5	5	20525	12	#0	QPSK	21.62	3.61	23.08	PASS
Band5	5	20525	12	#Mid	QPSK	21.55	3.61	23.01	PASS
Band5	5	20525	12	#Max	QPSK	21.41	3.61	22.87	PASS
Band5	5	20525	25	#0	QPSK	21.50	3.61	22.96	PASS
Band5	5	20525	1	#0	16QAM	21.12	3.61	22.58	PASS
Band5	5	20525	1	#Mid	16QAM	20.90	3.61	22.36	PASS
Band5	5	20525	1	#Max	16QAM	20.75	3.61	22.21	PASS
Band5	5	20525	12	#0	16QAM	20.38	3.61	21.84	PASS
Band5	5	20525	12	#Mid	16QAM	20.38	3.61	21.84	PASS
Band5	5	20525	12	#Max	16QAM	20.33	3.61	21.79	PASS
Band5	5	20525	25	#0	16QAM	20.47	3.61	21.93	PASS
Band5	5	20625	1	#0	QPSK	22.33	3.61	23.79	PASS
Band5	5	20625	1	#Mid	QPSK	22.57	3.61	24.03	PASS
Band5	5	20625	1	#Max	QPSK	22.13	3.61	23.59	PASS
Band5	5	20625	12	#0	QPSK	21.59	3.61	23.05	PASS
Band5	5	20625	12	#Mid	QPSK	21.65	3.61	23.11	PASS
Band5	5	20625	12	#Max	QPSK	21.34	3.61	22.80	PASS
Band5	5	20625	25	#0	QPSK	21.51	3.61	22.97	PASS
Band5	5	20625	1	#0	16QAM	21.52	3.61	22.98	PASS
Band5	5	20625	1	#Mid	16QAM	21.51	3.61	22.97	PASS

Band5	5	20625	1	#Max	16QAM	21.06	3.61	22.52	PASS
Band5	5	20625	12	#0	16QAM	20.52	3.61	21.98	PASS
Band5	5	20625	12	#Mid	16QAM	20.65	3.61	22.11	PASS
Band5	5	20625	12	#Max	16QAM	20.45	3.61	21.91	PASS
Band5	5	20625	25	#0	16QAM	20.56	3.61	22.02	PASS
Band5	10	20450	1	#0	QPSK	22.19	3.61	23.65	PASS
Band5	10	20450	1	#Mid	QPSK	22.47	3.61	23.93	PASS
Band5	10	20450	1	#Max	QPSK	22.21	3.61	23.67	PASS
Band5	10	20450	25	#0	QPSK	21.42	3.61	22.88	PASS
Band5	10	20450	25	#Mid	QPSK	21.53	3.61	22.99	PASS
Band5	10	20450	25	#Max	QPSK	21.53	3.61	22.99	PASS
Band5	10	20450	50	#0	QPSK	21.48	3.61	22.94	PASS
Band5	10	20525	1	#0	QPSK	22.44	3.61	23.90	PASS
Band5	10	20525	1	#Mid	QPSK	22.51	3.61	23.97	PASS
Band5	10	20525	1	#Max	QPSK	22.25	3.61	23.71	PASS
Band5	10	20525	25	#0	QPSK	21.57	3.61	23.03	PASS
Band5	10	20525	25	#Mid	QPSK	21.50	3.61	22.96	PASS
Band5	10	20525	25	#Max	QPSK	21.41	3.61	22.87	PASS
Band5	10	20525	50	#0	QPSK	21.55	3.61	23.01	PASS
Band5	10	20600	1	#0	QPSK	22.36	3.61	23.82	PASS
Band5	10	20600	1	#Mid	QPSK	22.91	3.61	24.37	PASS
Band5	10	20600	1	#Max	QPSK	22.27	3.61	23.73	PASS
Band5	10	20600	25	#0	QPSK	21.49	3.61	22.95	PASS
Band5	10	20600	25	#Mid	QPSK	21.62	3.61	23.08	PASS
Band5	10	20600	25	#Max	QPSK	21.49	3.61	22.95	PASS
Band5	10	20600	50	#0	QPSK	21.53	3.61	22.99	PASS

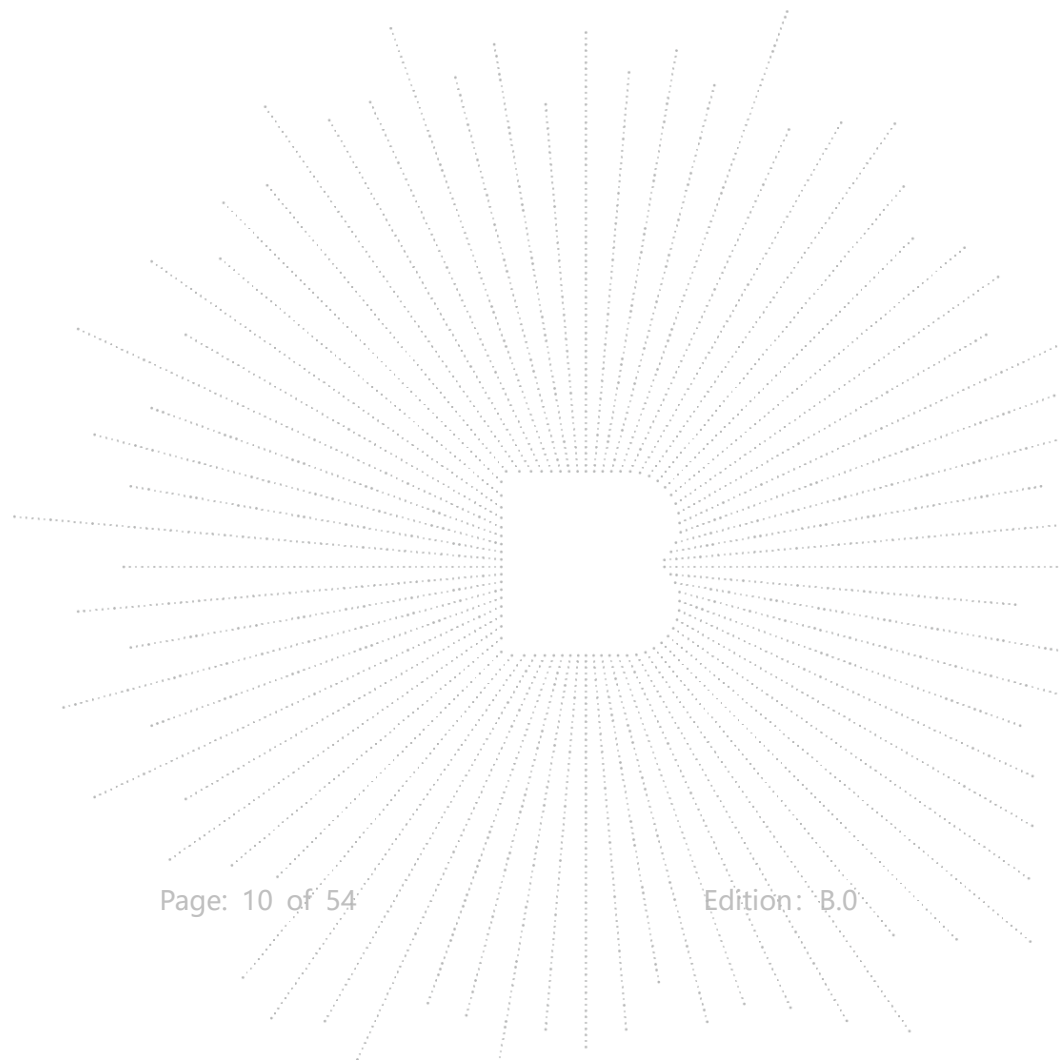
Appendix 2. Frequency stability

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
Band 5	1.4	20407	6	#0	QPSK	LV	NT	-2.62	-0.003	-2.5	2.5	PASS
Band 5	1.4	20407	6	#0	QPSK	NV	NT	-2.88	-0.003	-2.5	2.5	PASS
Band 5	1.4	20407	6	#0	QPSK	HV	NT	-2.59	-0.003	-2.5	2.5	PASS
Band 5	1.4	20407	6	#0	16QAM	LV	NT	-2.15	-0.003	-2.5	2.5	PASS
Band 5	1.4	20407	6	#0	16QAM	NV	NT	-2.47	-0.003	-2.5	2.5	PASS
Band 5	1.4	20407	6	#0	16QAM	HV	NT	-2.50	-0.003	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	QPSK	LV	NT	-0.80	-0.001	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	QPSK	NV	NT	-1.75	-0.002	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	QPSK	HV	NT	-0.80	-0.001	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	16QAM	LV	NT	-0.89	-0.001	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	16QAM	NV	NT	-1.37	-0.002	-2.5	2.5	PASS
Band 5	1.4	20525	6	#0	16QAM	HV	NT	-1.56	-0.002	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	QPSK	LV	NT	-0.01	0.000	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	QPSK	NV	NT	-0.64	-0.001	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	QPSK	HV	NT	-0.90	-0.001	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	16QAM	LV	NT	-0.60	-0.001	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	16QAM	NV	NT	-0.53	-0.001	-2.5	2.5	PASS
Band 5	1.4	20643	6	#0	16QAM	HV	NT	-0.70	-0.001	-2.5	2.5	PASS

5									1			
Band 5	3	20415	15	#0	QPSK	LV	NT	-0.57	-0.001	-2.5	2.5	PASS
Band 5	3	20415	15	#0	QPSK	NV	NT	-0.63	-0.001	-2.5	2.5	PASS
Band 5	3	20415	15	#0	QPSK	HV	NT	-0.86	-0.001	-2.5	2.5	PASS
Band 5	3	20415	15	#0	16QAM	LV	NT	-0.60	-0.001	-2.5	2.5	PASS
Band 5	3	20415	15	#0	16QAM	NV	NT	-0.21	0.000	-2.5	2.5	PASS
Band 5	3	20415	15	#0	16QAM	HV	NT	-0.01	0.000	-2.5	2.5	PASS
Band 5	3	20525	15	#0	QPSK	LV	NT	-0.66	-0.001	-2.5	2.5	PASS
Band 5	3	20525	15	#0	QPSK	NV	NT	-1.46	-0.002	-2.5	2.5	PASS
Band 5	3	20525	15	#0	QPSK	HV	NT	-0.74	-0.001	-2.5	2.5	PASS
Band 5	3	20525	15	#0	16QAM	LV	NT	-1.67	-0.002	-2.5	2.5	PASS
Band 5	3	20525	15	#0	16QAM	NV	NT	-1.12	-0.001	-2.5	2.5	PASS
Band 5	3	20525	15	#0	16QAM	HV	NT	-2.03	-0.002	-2.5	2.5	PASS
Band 5	3	20635	15	#0	QPSK	LV	NT	-2.29	-0.003	-2.5	2.5	PASS
Band 5	3	20635	15	#0	QPSK	NV	NT	-1.22	-0.001	-2.5	2.5	PASS
Band 5	3	20635	15	#0	QPSK	HV	NT	-1.24	-0.001	-2.5	2.5	PASS
Band 5	3	20635	15	#0	16QAM	LV	NT	-0.94	-0.001	-2.5	2.5	PASS
Band 5	3	20635	15	#0	16QAM	NV	NT	-1.14	-0.001	-2.5	2.5	PASS
Band 5	3	20635	15	#0	16QAM	HV	NT	-1.46	-0.002	-2.5	2.5	PASS
Band 5	5	20425	25	#0	QPSK	LV	NT	-1.29	-0.002	-2.5	2.5	PASS
Band 5	5	20425	25	#0	QPSK	NV	NT	-2.00	-0.002	-2.5	2.5	PASS
Band 5	5	20425	25	#0	QPSK	HV	NT	-2.59	-0.003	-2.5	2.5	PASS

Band 5	5	20425	25	#0	16QAM	LV	NT	-2.20	-0.00 3	-2.5	2.5	PASS
Band 5	5	20425	25	#0	16QAM	NV	NT	-1.72	-0.00 2	-2.5	2.5	PASS
Band 5	5	20425	25	#0	16QAM	HV	NT	-1.50	-0.00 2	-2.5	2.5	PASS
Band 5	5	20525	25	#0	QPSK	LV	NT	-0.16	0.000	-2.5	2.5	PASS
Band 5	5	20525	25	#0	QPSK	NV	NT	-1.13	-0.00 1	-2.5	2.5	PASS
Band 5	5	20525	25	#0	QPSK	HV	NT	-1.13	-0.00 1	-2.5	2.5	PASS
Band 5	5	20525	25	#0	16QAM	LV	NT	-0.23	0.000	-2.5	2.5	PASS
Band 5	5	20525	25	#0	16QAM	NV	NT	-0.62	-0.00 1	-2.5	2.5	PASS
Band 5	5	20525	25	#0	16QAM	HV	NT	-1.50	-0.00 2	-2.5	2.5	PASS
Band 5	5	20625	25	#0	QPSK	LV	NT	-0.44	-0.00 1	-2.5	2.5	PASS
Band 5	5	20625	25	#0	QPSK	NV	NT	0.30	0.000	-2.5	2.5	PASS
Band 5	5	20625	25	#0	QPSK	HV	NT	-0.33	0.000	-2.5	2.5	PASS
Band 5	5	20625	25	#0	16QAM	LV	NT	-0.86	-0.00 1	-2.5	2.5	PASS
Band 5	5	20625	25	#0	16QAM	NV	NT	-1.16	-0.00 1	-2.5	2.5	PASS
Band 5	5	20625	25	#0	16QAM	HV	NT	-0.67	-0.00 1	-2.5	2.5	PASS
Band 5	10	20450	50	#0	QPSK	LV	NT	1.16	0.001	-2.5	2.5	PASS
Band 5	10	20450	50	#0	QPSK	NV	NT	-0.87	-0.00 1	-2.5	2.5	PASS
Band 5	10	20450	50	#0	QPSK	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 5	10	20525	50	#0	QPSK	LV	NT	-1.87	-0.00 2	-2.5	2.5	PASS
Band 5	10	20525	50	#0	QPSK	NV	NT	-1.46	-0.00 2	-2.5	2.5	PASS
Band 5	10	20525	50	#0	QPSK	HV	NT	-1.20	-0.00 1	-2.5	2.5	PASS
Band 5	10	20600	50	#0	QPSK	LV	NT	-1.12	-0.00	-2.5	2.5	PASS

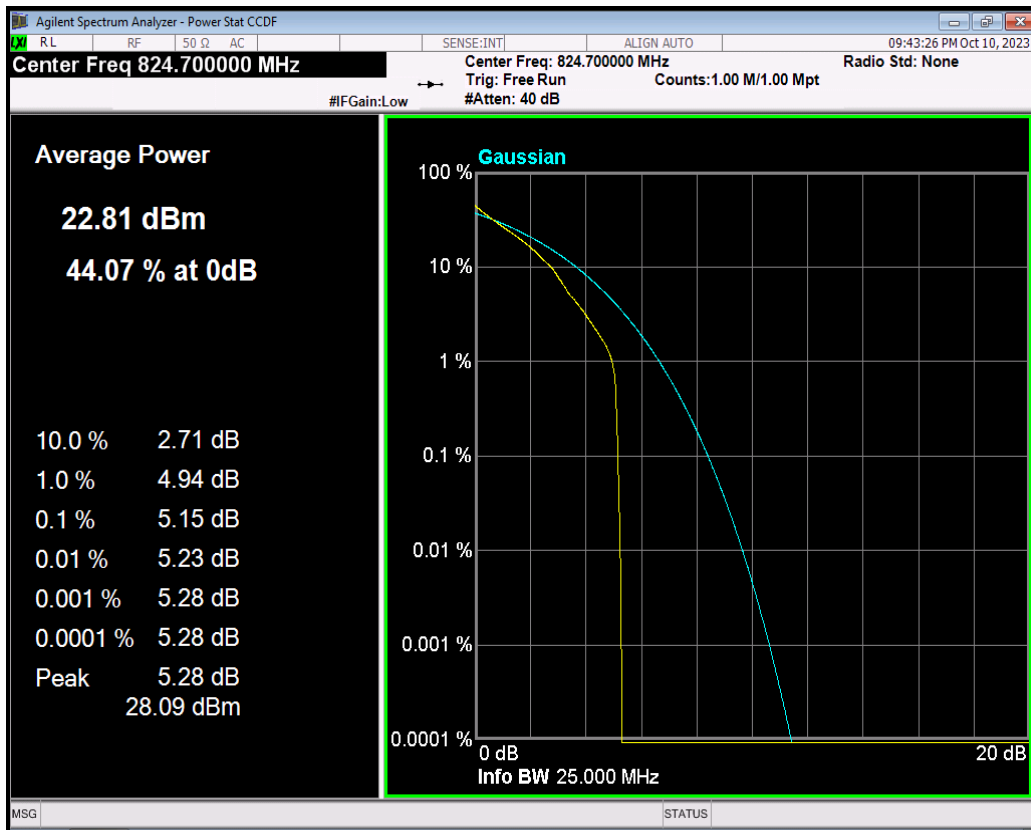
5									1			
Band	10	20600	50	#0	QPSK	NV	NT	-1.40	-0.00	-2.5	2.5	PASS
5									2			
Band	10	20600	50	#0	QPSK	HV	NT	-0.90	-0.00	-2.5	2.5	PASS
5									1			



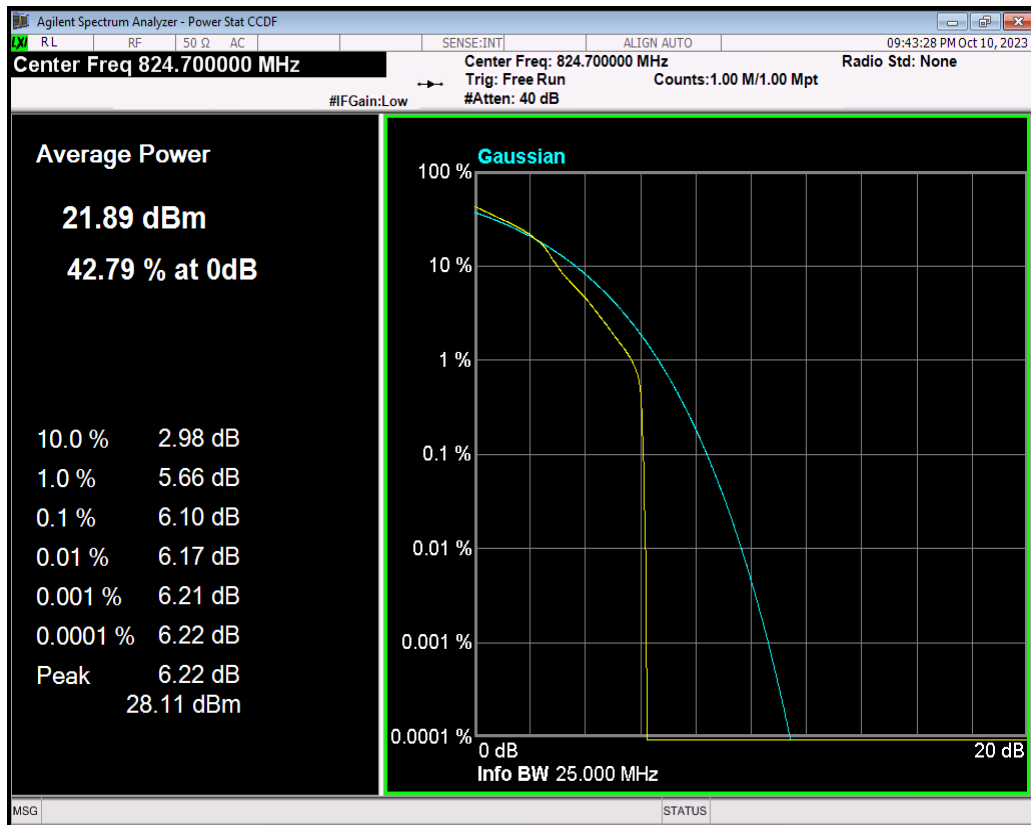
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band5	1.4	20407	1	#0	QPSK	5.15	13	PASS
Band5	1.4	20407	1	#0	16QAM	6.10	13	PASS
Band5	1.4	20525	1	#0	QPSK	5.04	13	PASS
Band5	1.4	20525	1	#0	16QAM	5.84	13	PASS
Band5	1.4	20643	1	#0	QPSK	4.97	13	PASS
Band5	1.4	20643	1	#0	16QAM	5.80	13	PASS
Band5	3	20415	1	#0	QPSK	5.18	13	PASS
Band5	3	20415	1	#0	16QAM	5.94	13	PASS
Band5	3	20525	1	#0	QPSK	4.86	13	PASS
Band5	3	20525	1	#0	16QAM	5.78	13	PASS
Band5	3	20635	1	#0	QPSK	4.64	13	PASS
Band5	3	20635	1	#0	16QAM	5.36	13	PASS
Band5	5	20425	1	#0	QPSK	5.20	13	PASS
Band5	5	20425	1	#0	16QAM	5.98	13	PASS
Band5	5	20525	1	#0	QPSK	4.71	13	PASS
Band5	5	20525	1	#0	16QAM	5.49	13	PASS
Band5	5	20625	1	#0	QPSK	4.48	13	PASS
Band5	5	20625	1	#0	16QAM	5.29	13	PASS
Band5	10	20450	1	#0	QPSK	5.11	13	PASS
Band5	10	20525	1	#0	QPSK	4.78	13	PASS
Band5	10	20600	1	#0	QPSK	5.15	13	PASS

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

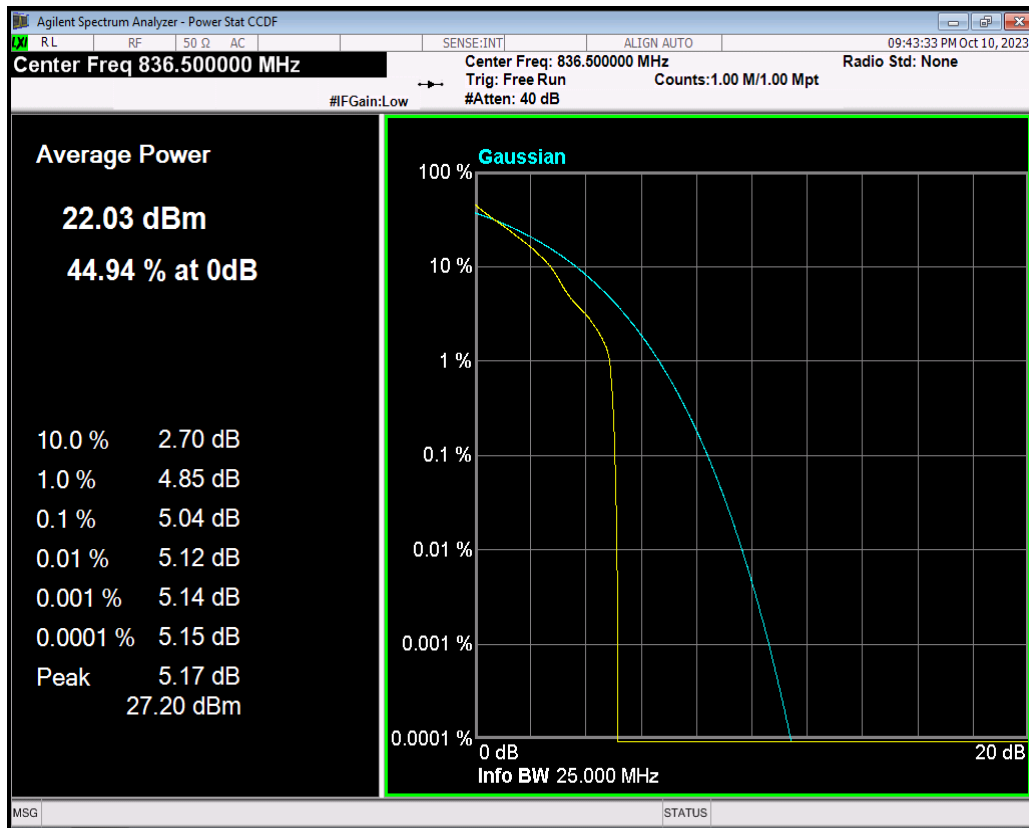


Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0

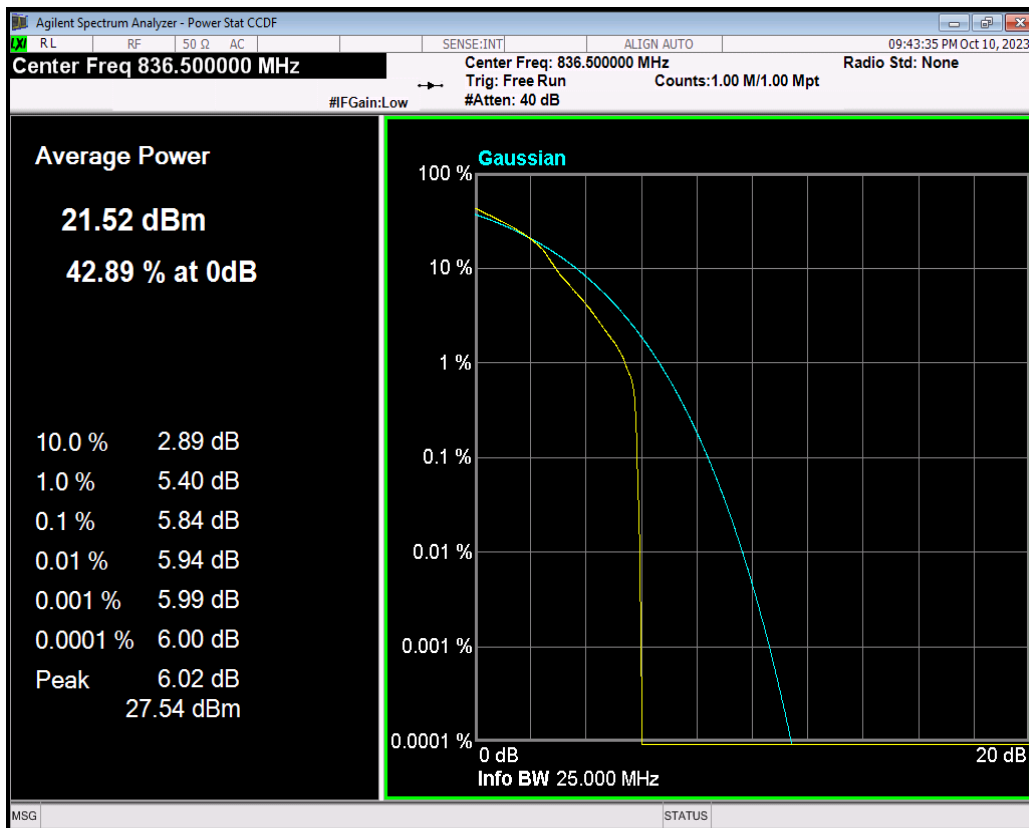




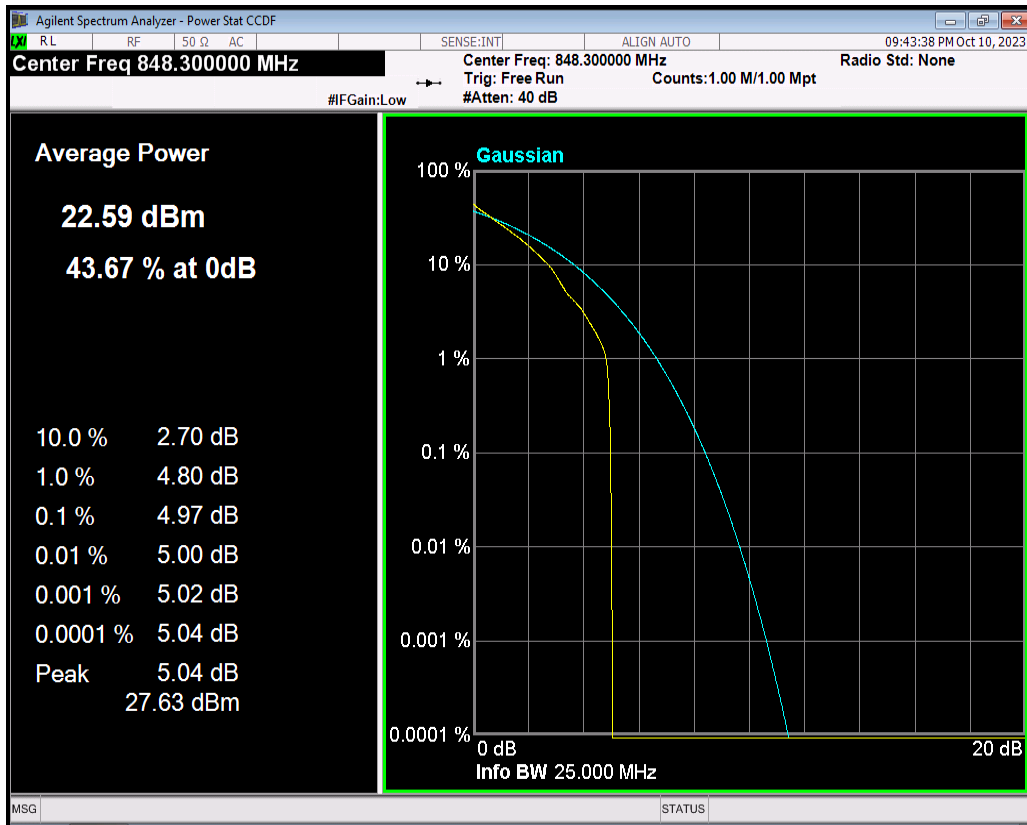
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



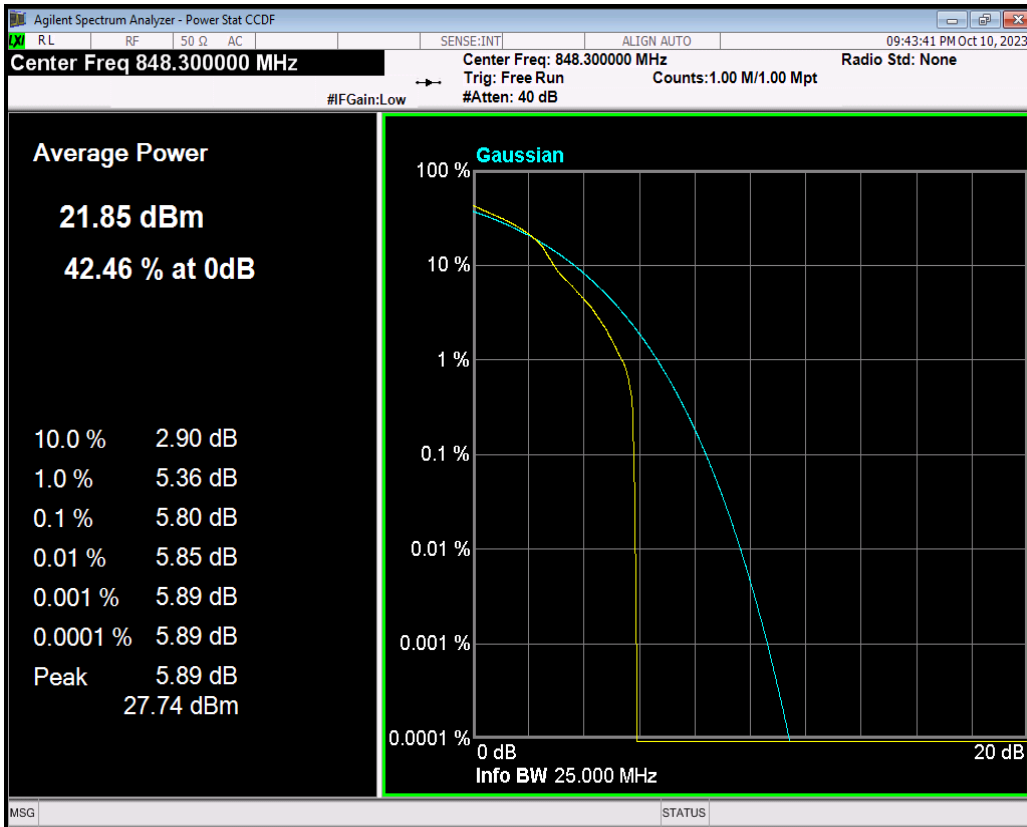
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



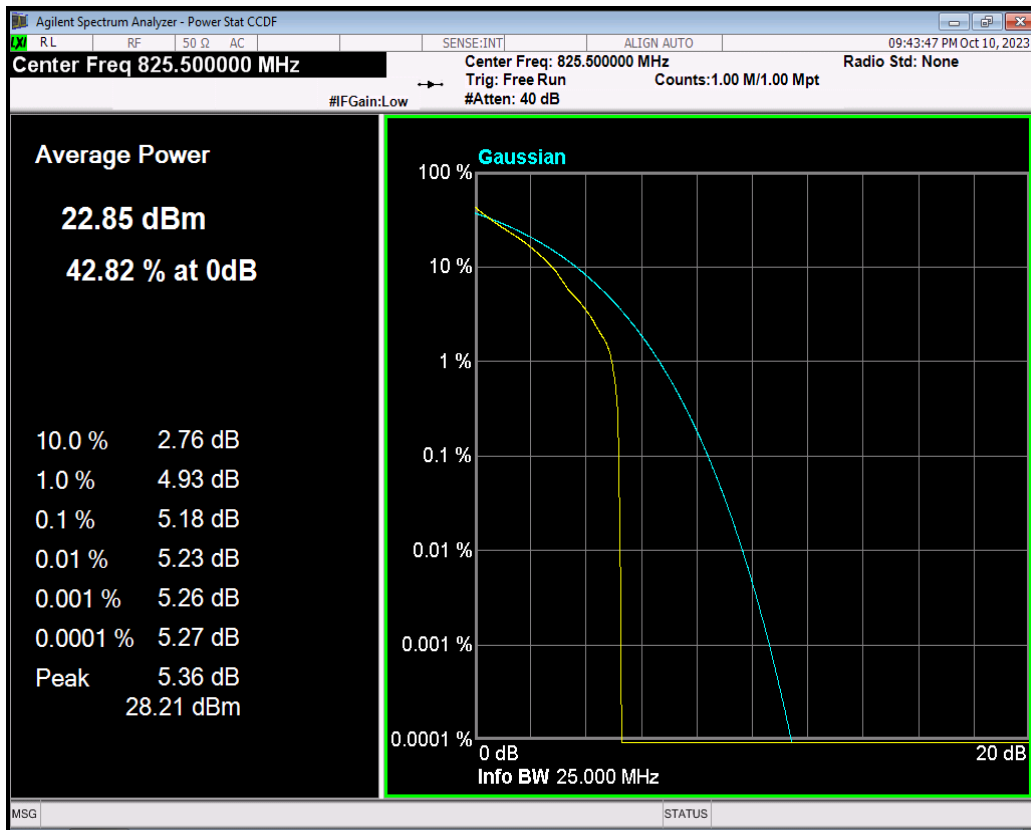
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



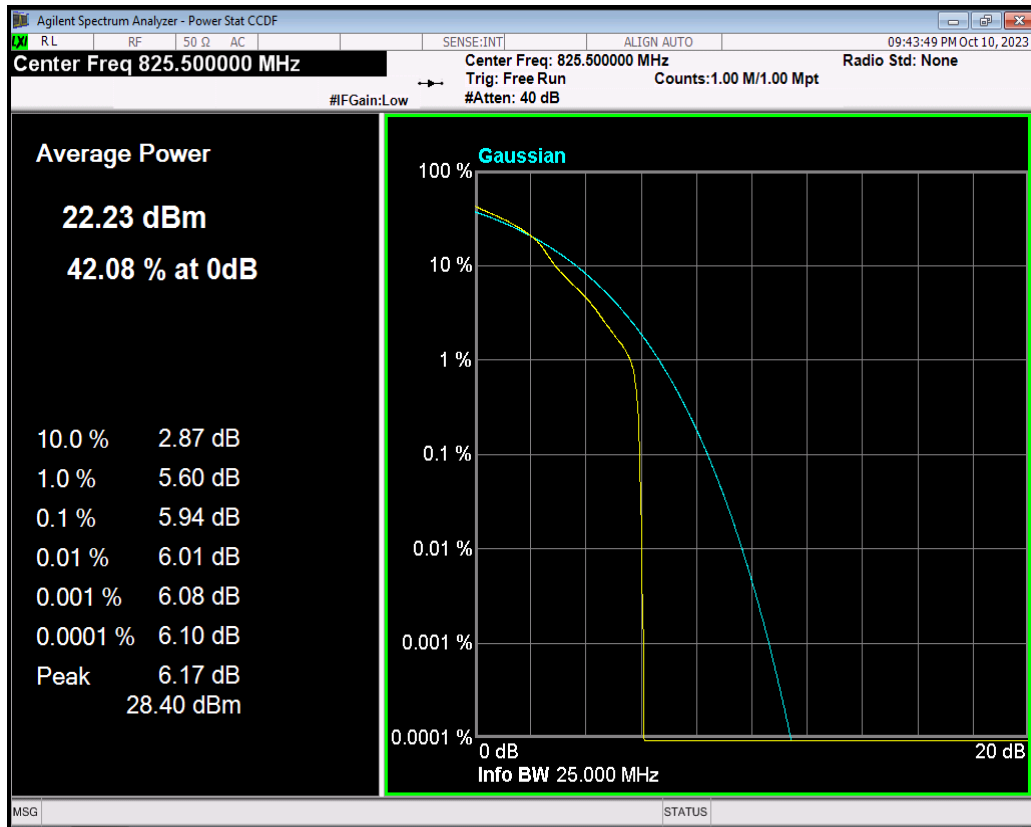
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0



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

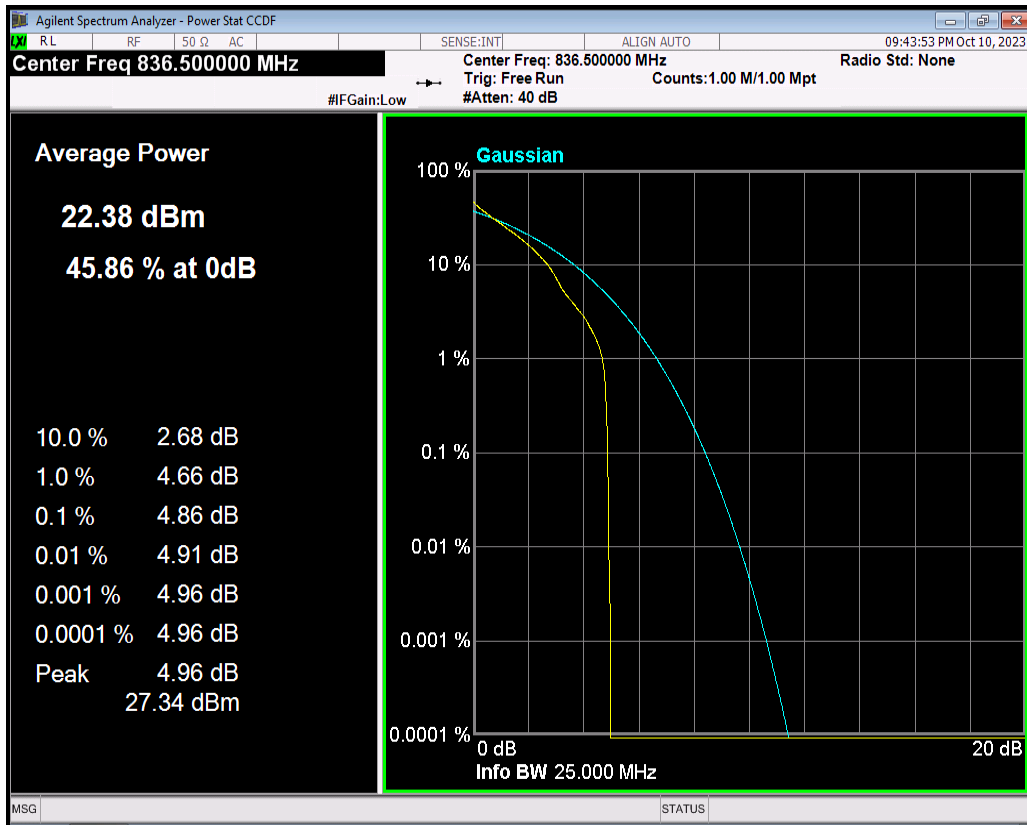


Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0

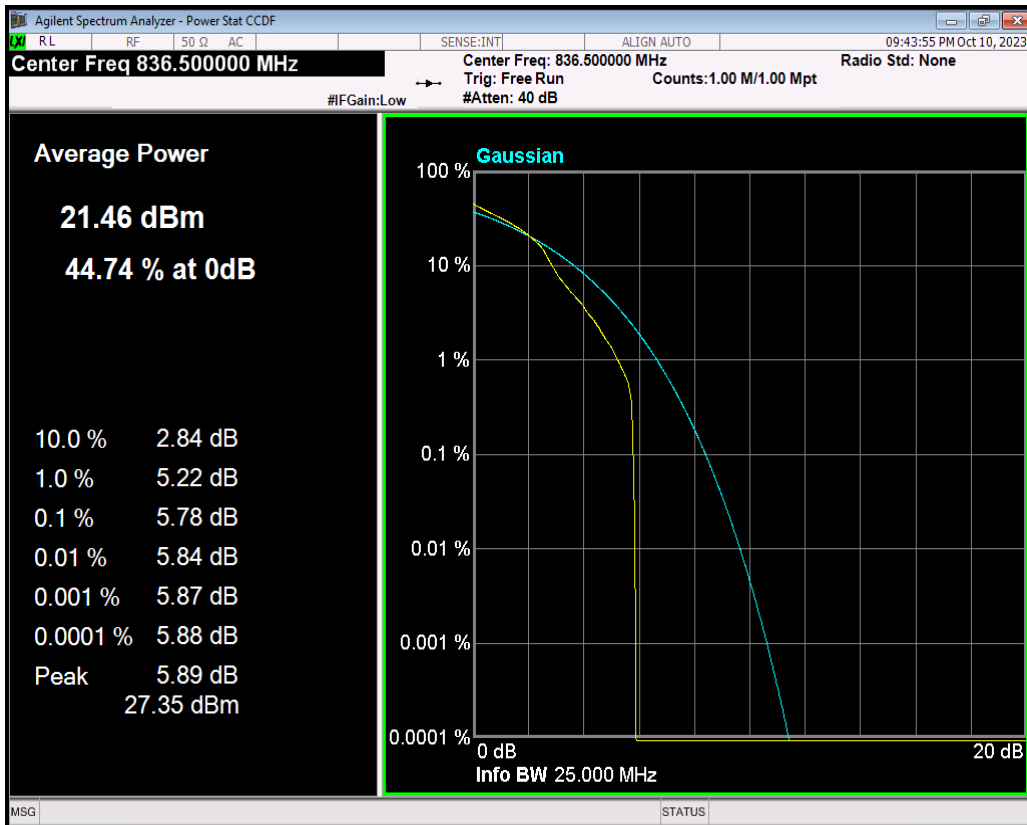




Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0

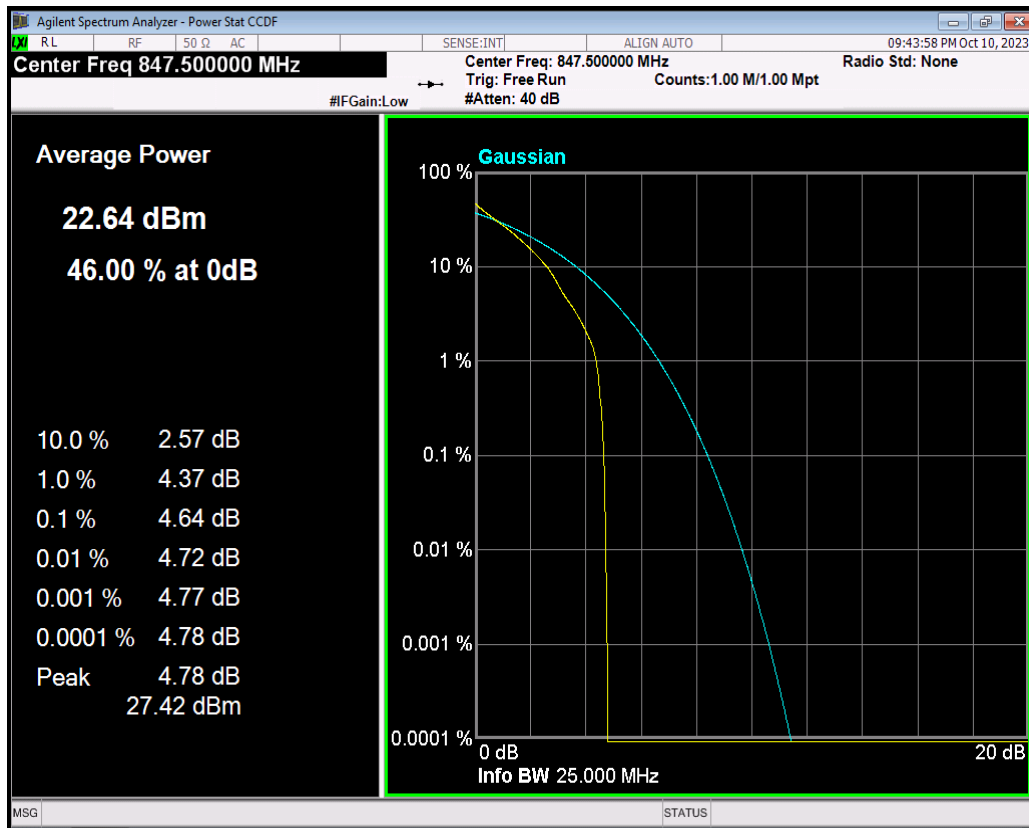


Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0

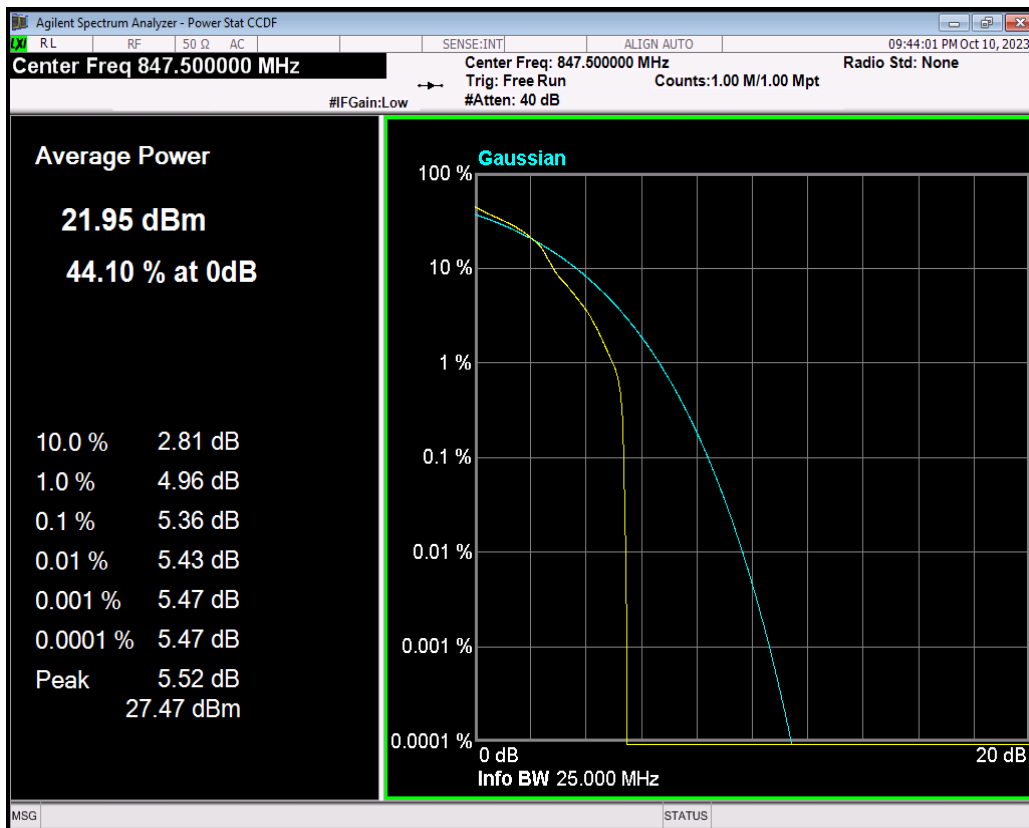




Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0

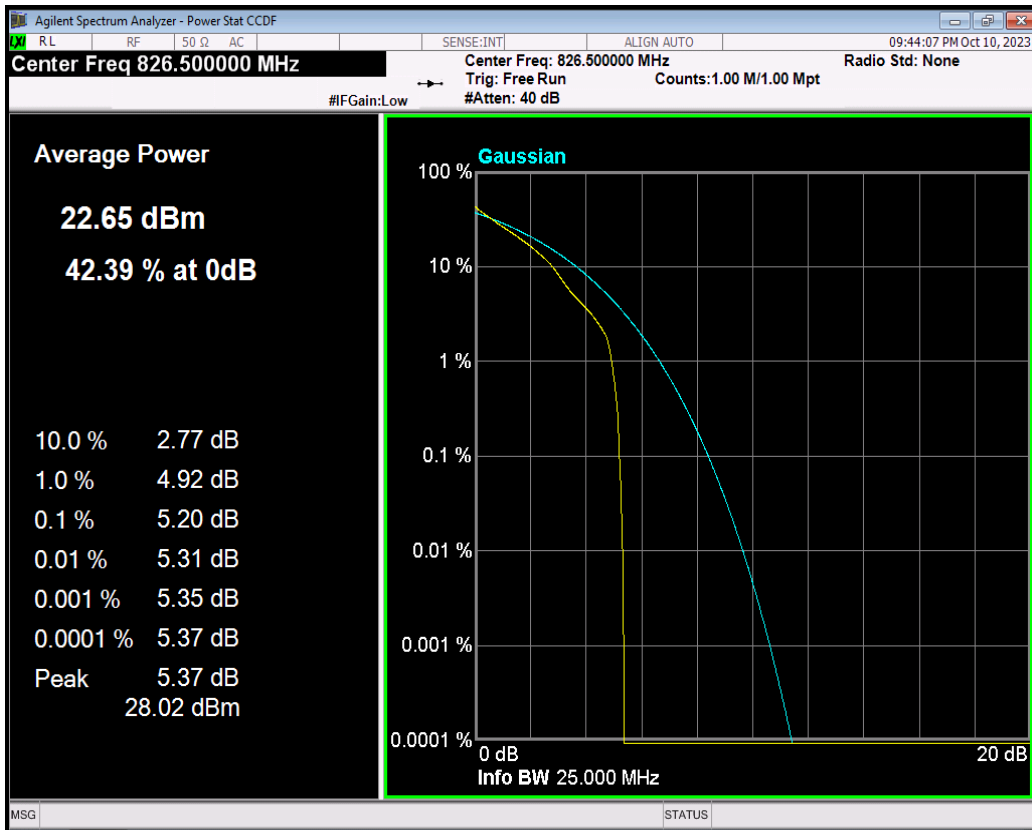


Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0

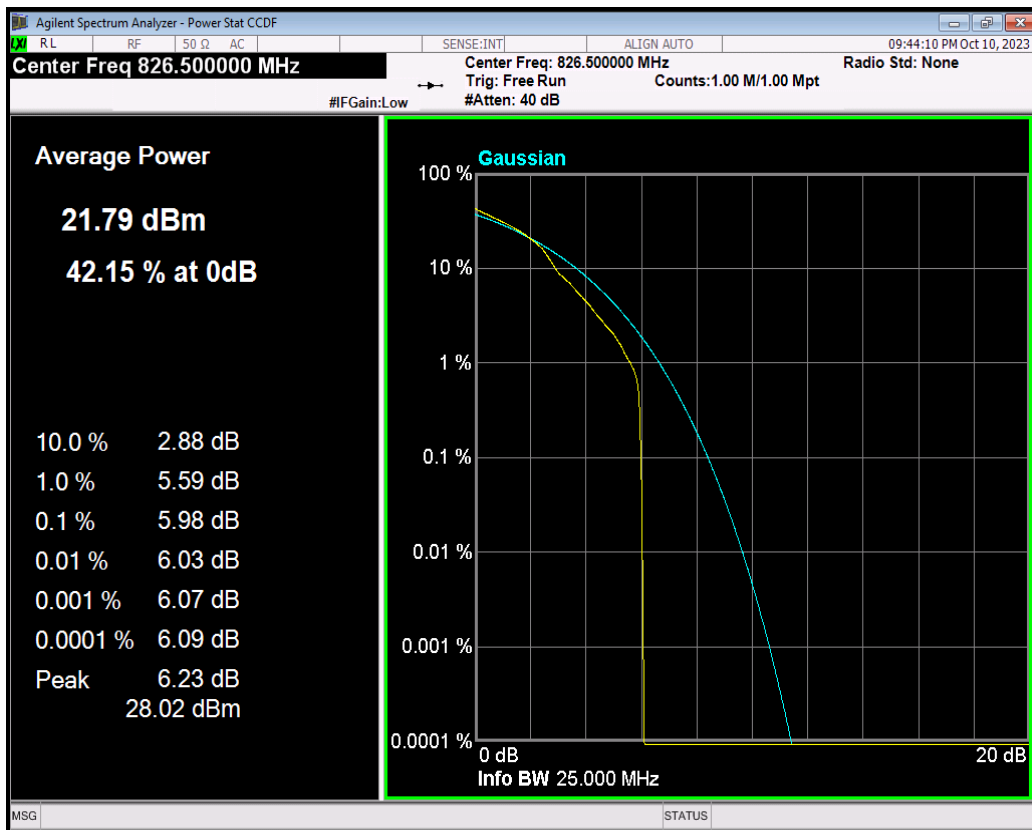




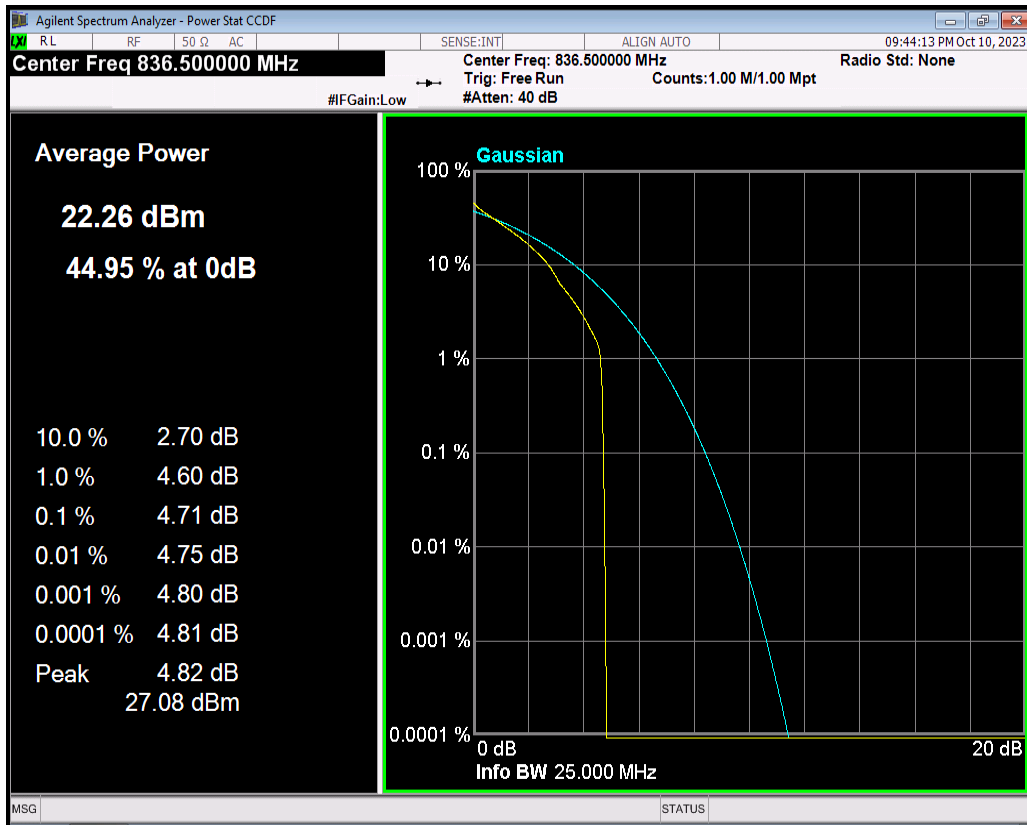
Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0



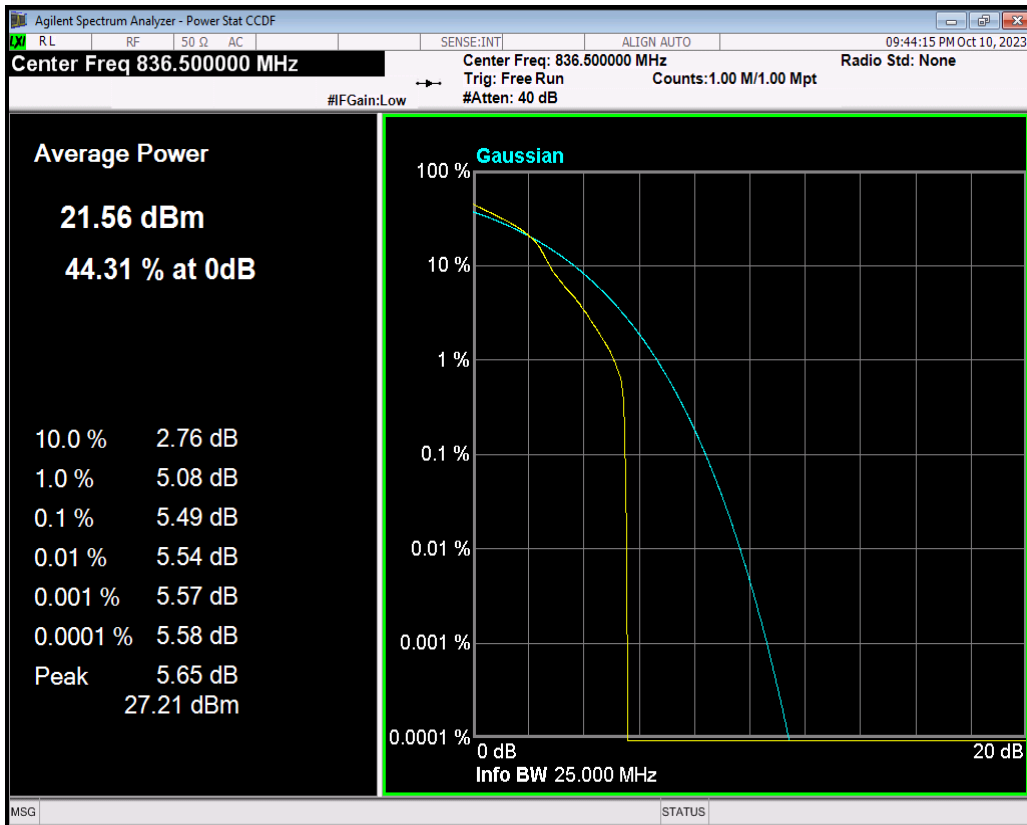
Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0



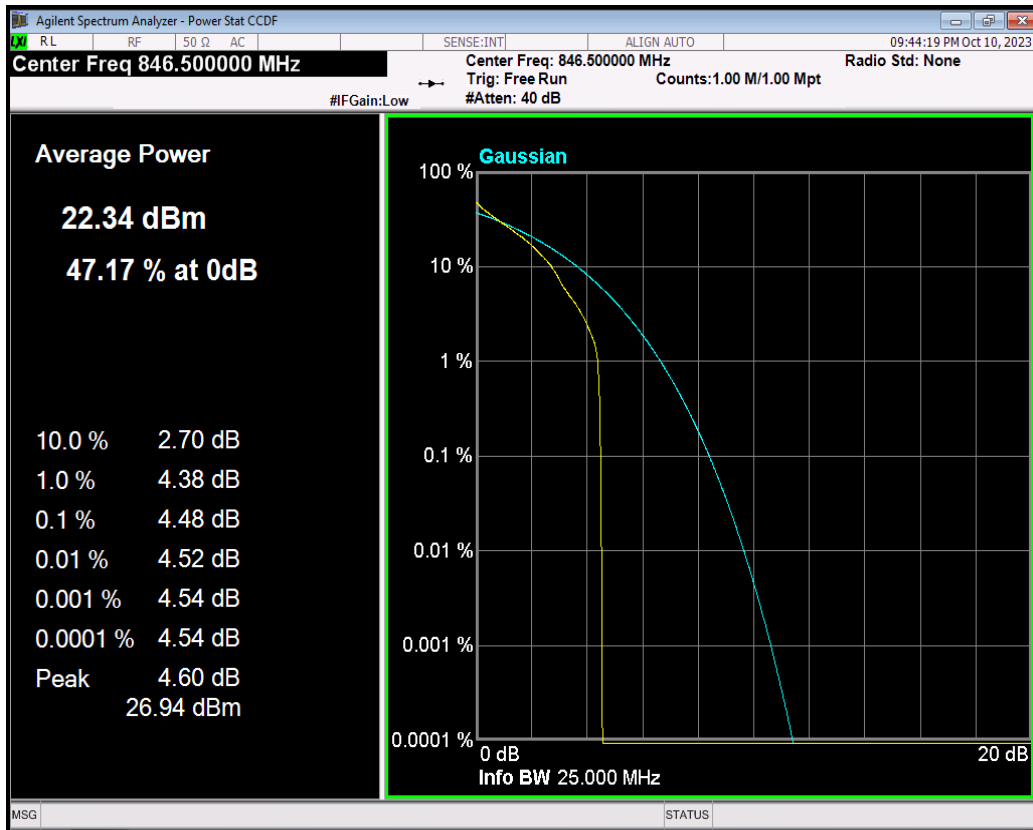
Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0



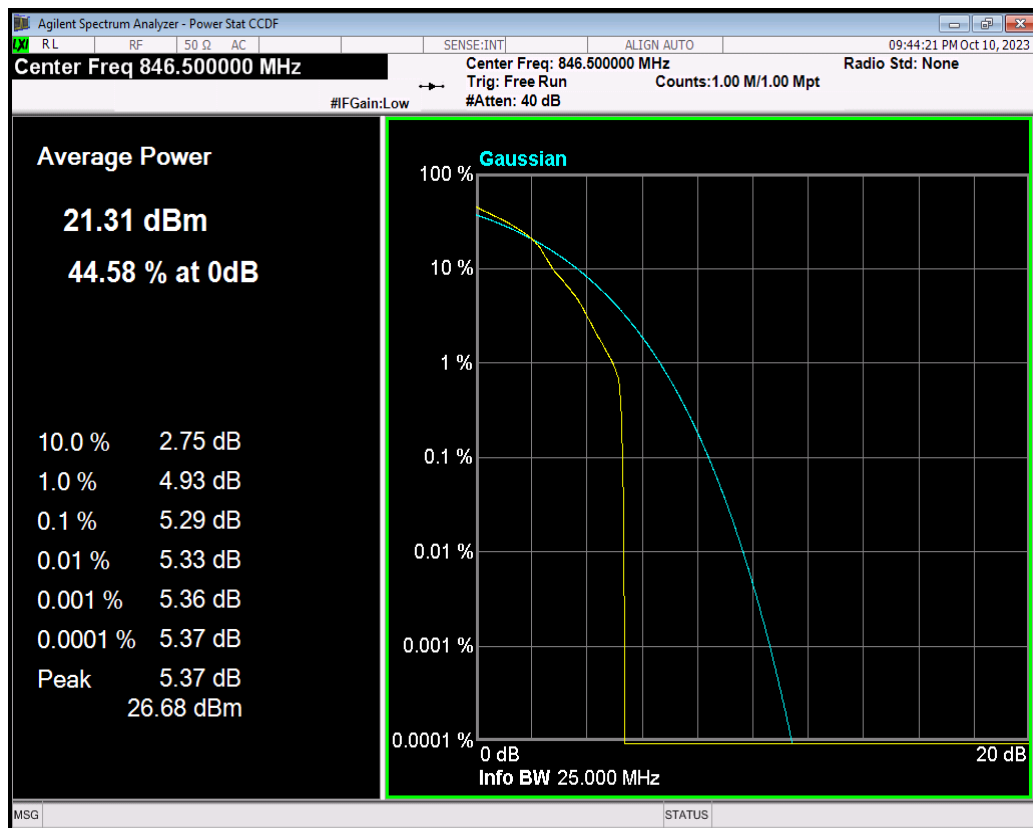
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



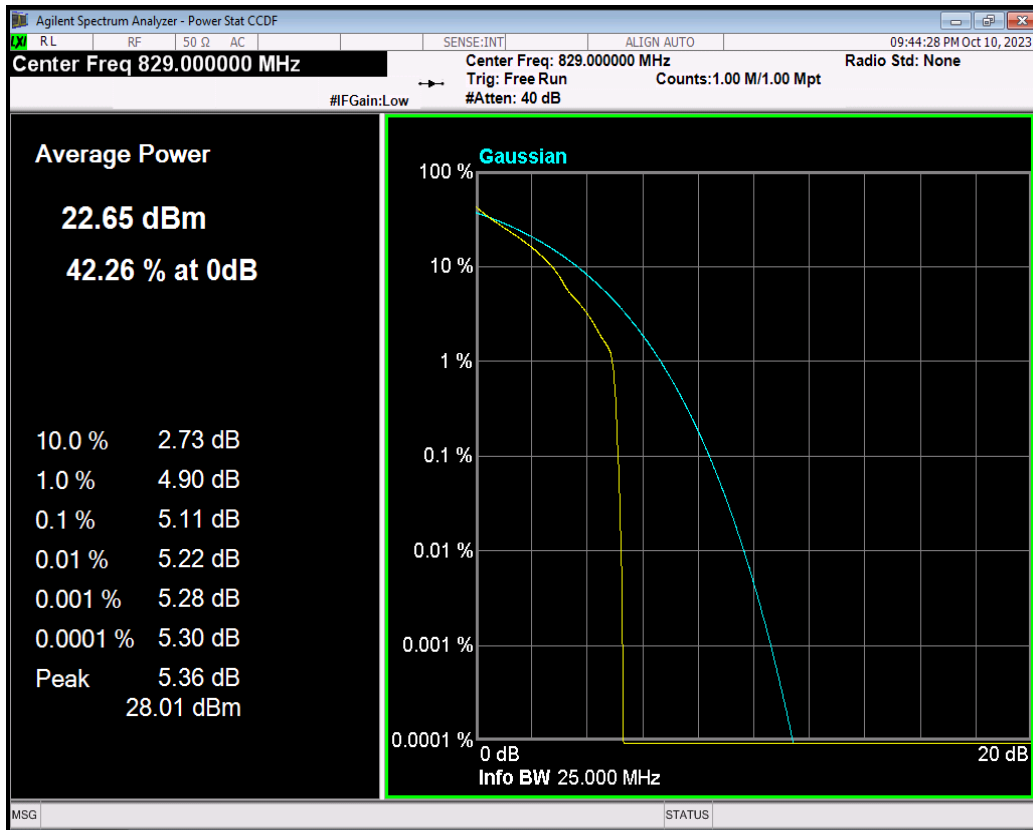
Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0



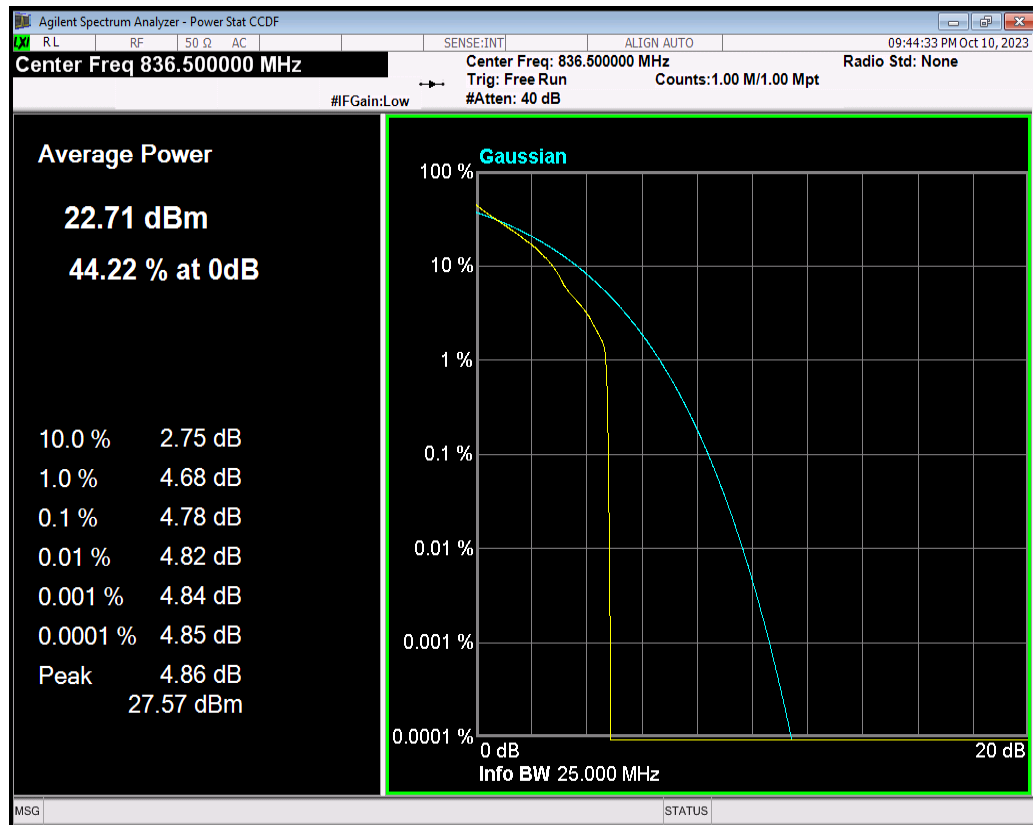
Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0



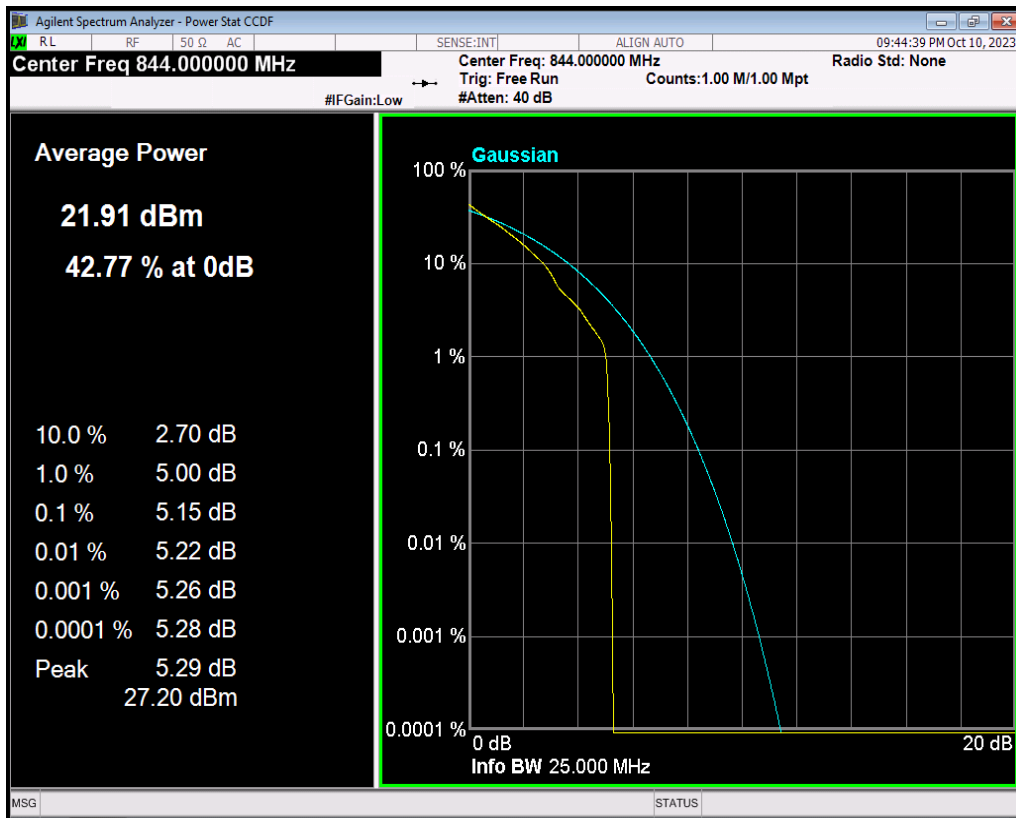
Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



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



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

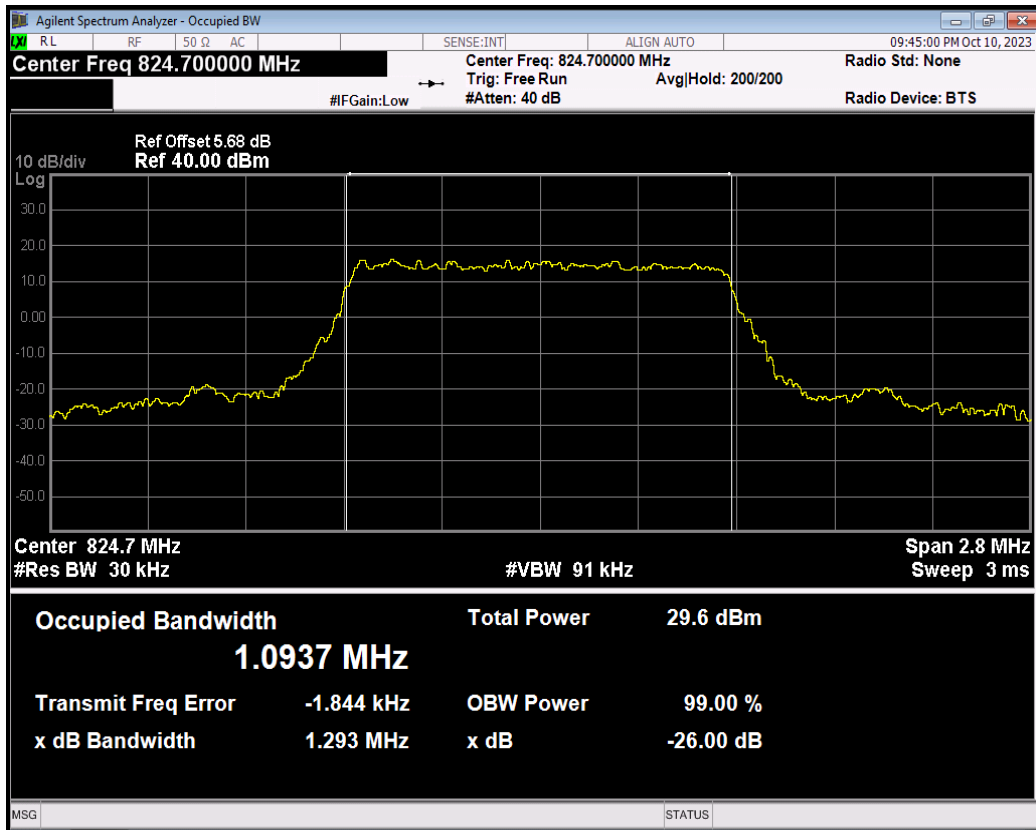


Appendix 4. Occupied bandwidth

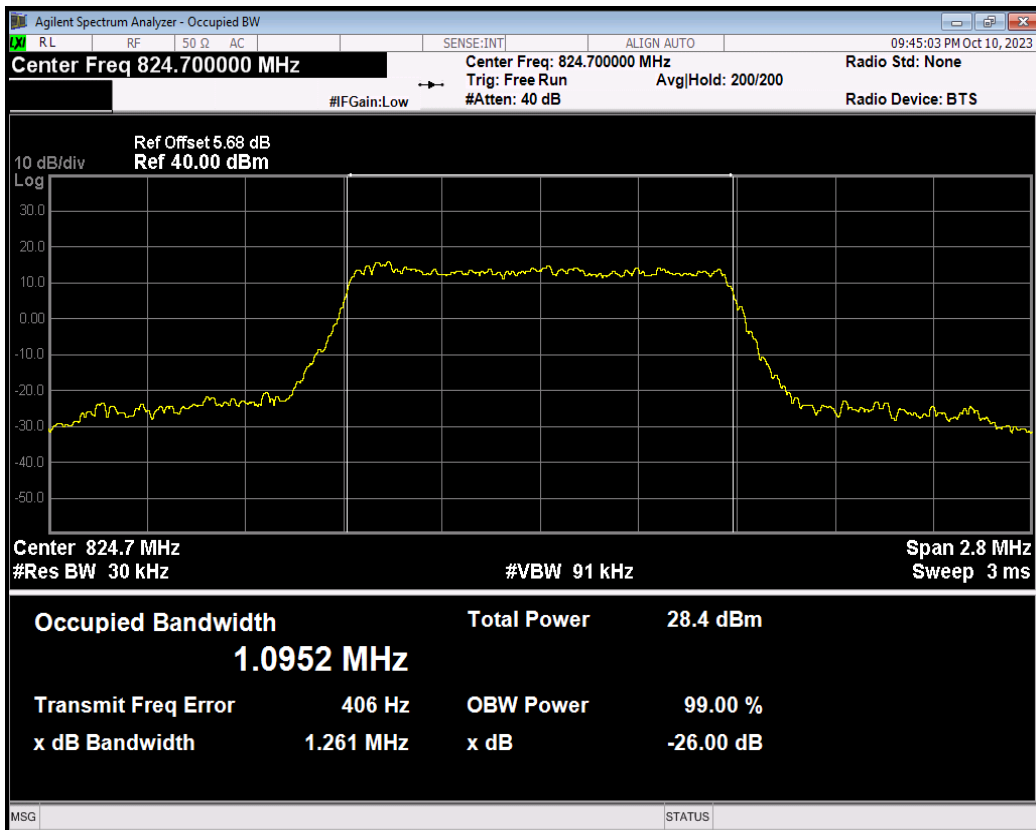
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20407	6	#0	QPSK	1.094	1.293	PASS
Band5	1.4	20407	6	#0	16QAM	1.095	1.261	PASS
Band5	1.4	20525	6	#0	QPSK	1.103	1.274	PASS
Band5	1.4	20525	6	#0	16QAM	1.095	1.287	PASS
Band5	1.4	20643	6	#0	QPSK	1.097	1.280	PASS
Band5	1.4	20643	6	#0	16QAM	1.102	1.266	PASS
Band5	3	20415	15	#0	QPSK	2.700	2.960	PASS
Band5	3	20415	15	#0	16QAM	2.693	2.994	PASS
Band5	3	20525	15	#0	QPSK	2.710	2.999	PASS
Band5	3	20525	15	#0	16QAM	2.697	2.981	PASS
Band5	3	20635	15	#0	QPSK	2.708	3.001	PASS
Band5	3	20635	15	#0	16QAM	2.710	2.994	PASS
Band5	5	20425	25	#0	QPSK	4.535	4.968	PASS
Band5	5	20425	25	#0	16QAM	4.526	4.981	PASS
Band5	5	20525	25	#0	QPSK	4.509	4.974	PASS
Band5	5	20525	25	#0	16QAM	4.522	5.046	PASS
Band5	5	20625	25	#0	QPSK	4.506	4.916	PASS
Band5	5	20625	25	#0	16QAM	4.528	4.906	PASS
Band5	10	20450	50	#0	QPSK	9.038	9.854	PASS
Band5	10	20525	50	#0	QPSK	8.969	9.789	PASS
Band5	10	20600	50	#0	QPSK	8.937	9.761	PASS



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

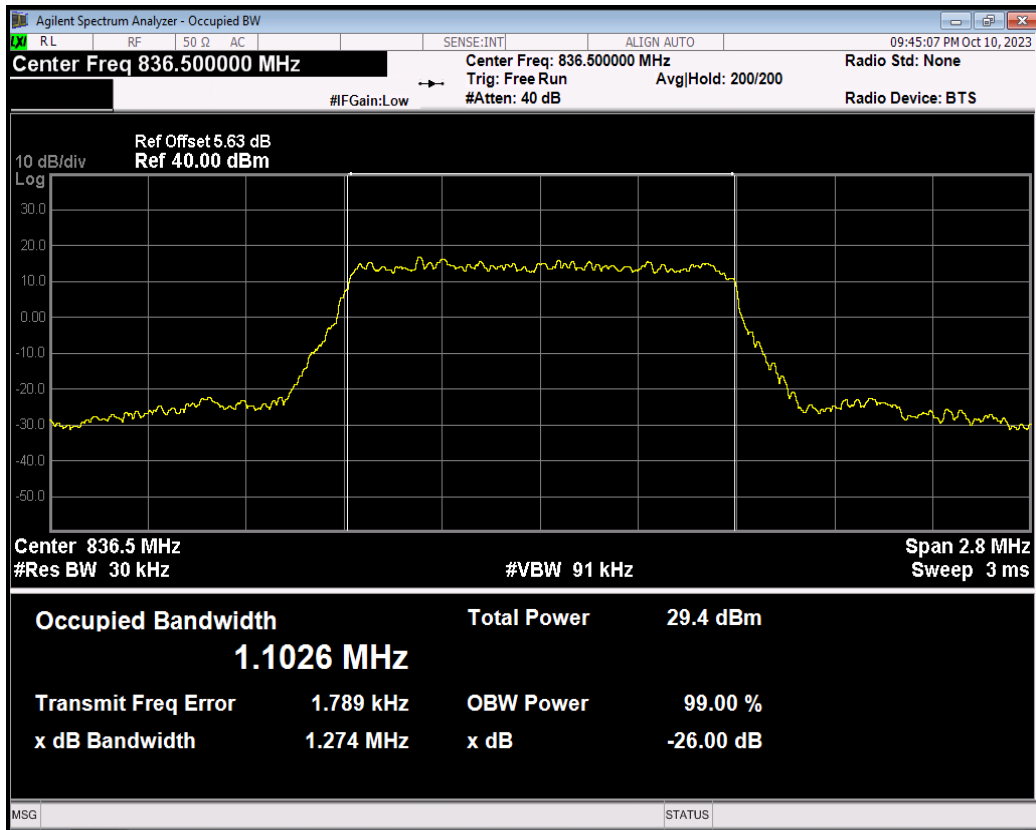


Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0

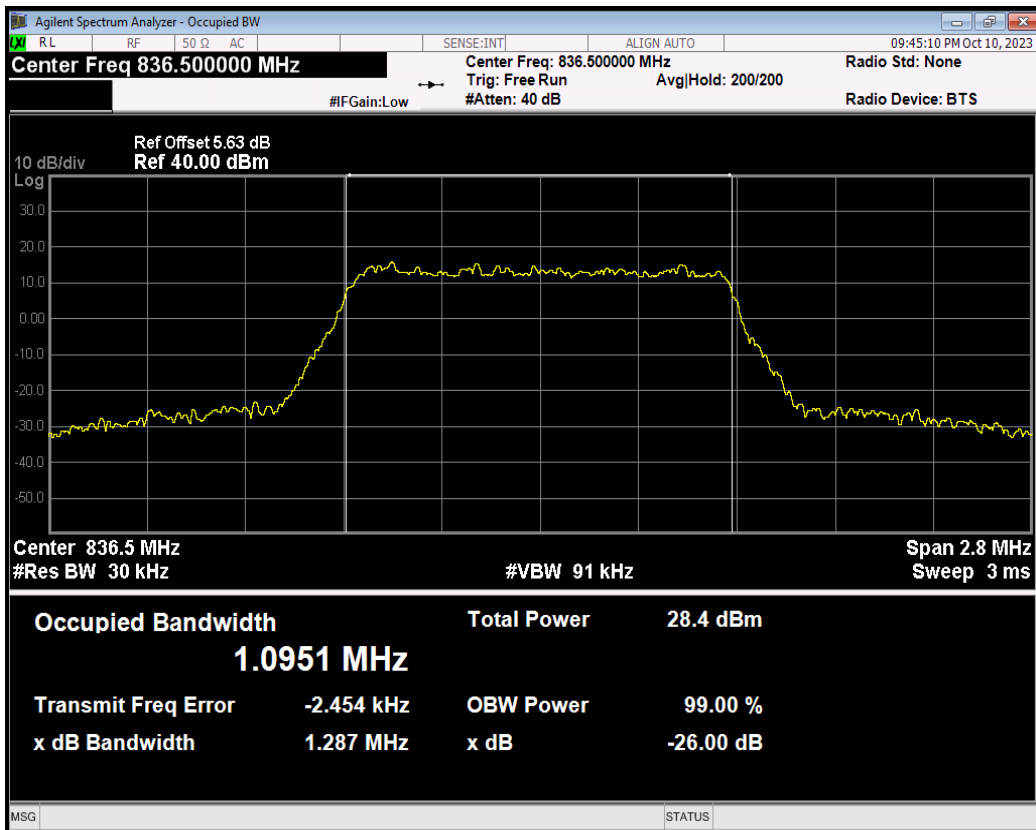




Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0

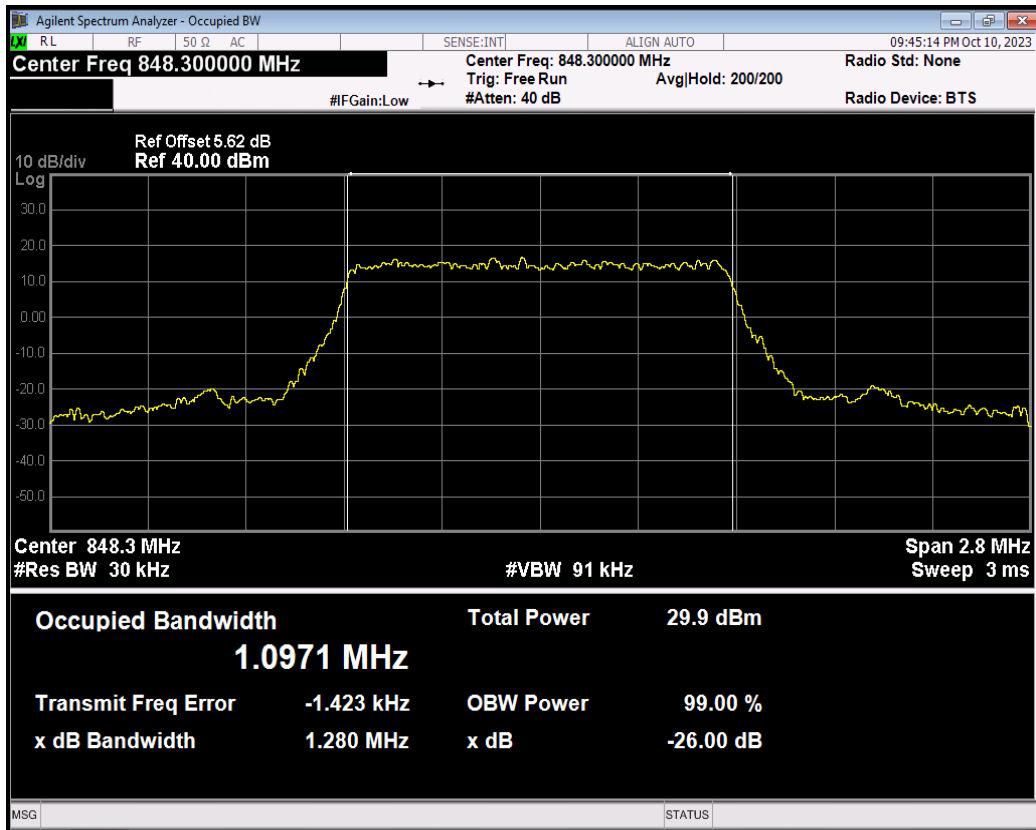


Band5 16QAM BW=1.4MHz Channel=20525 RB Size=6 Position=#0

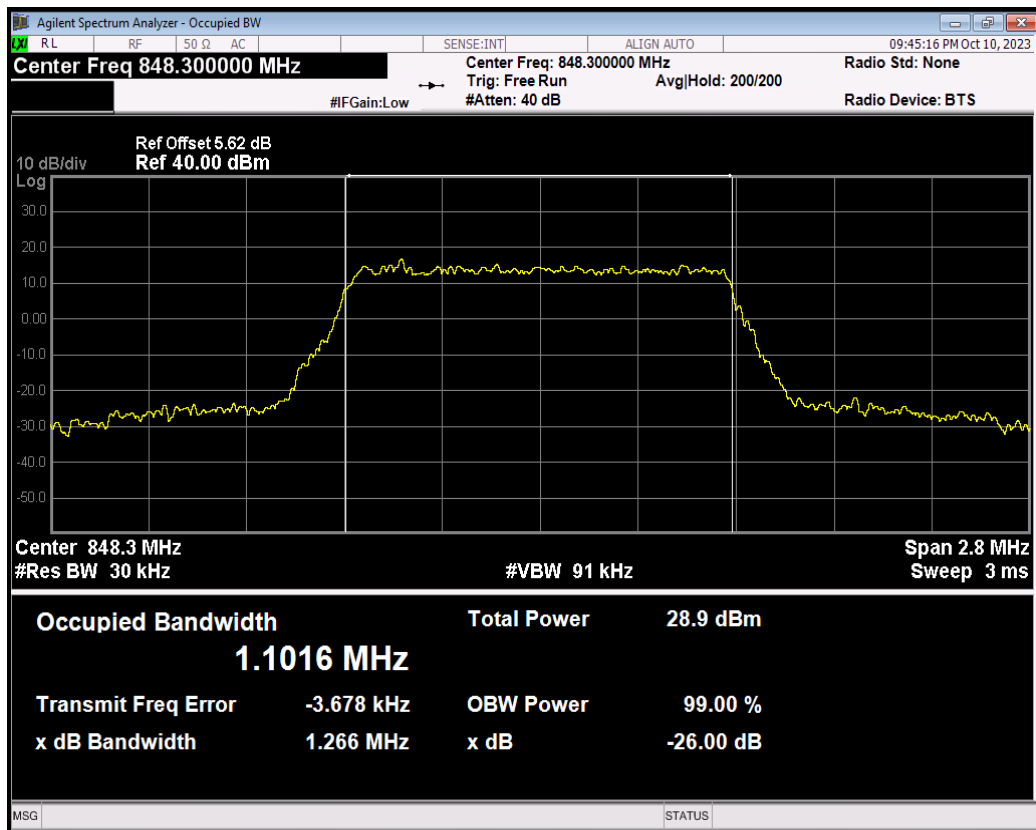




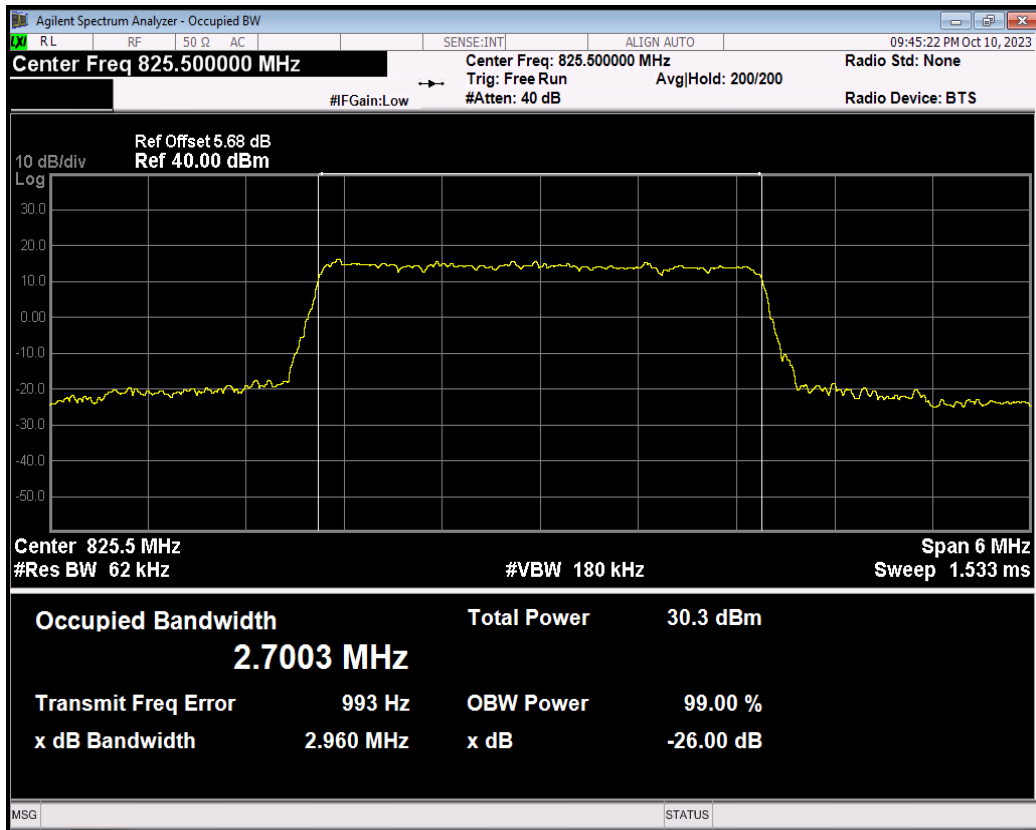
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



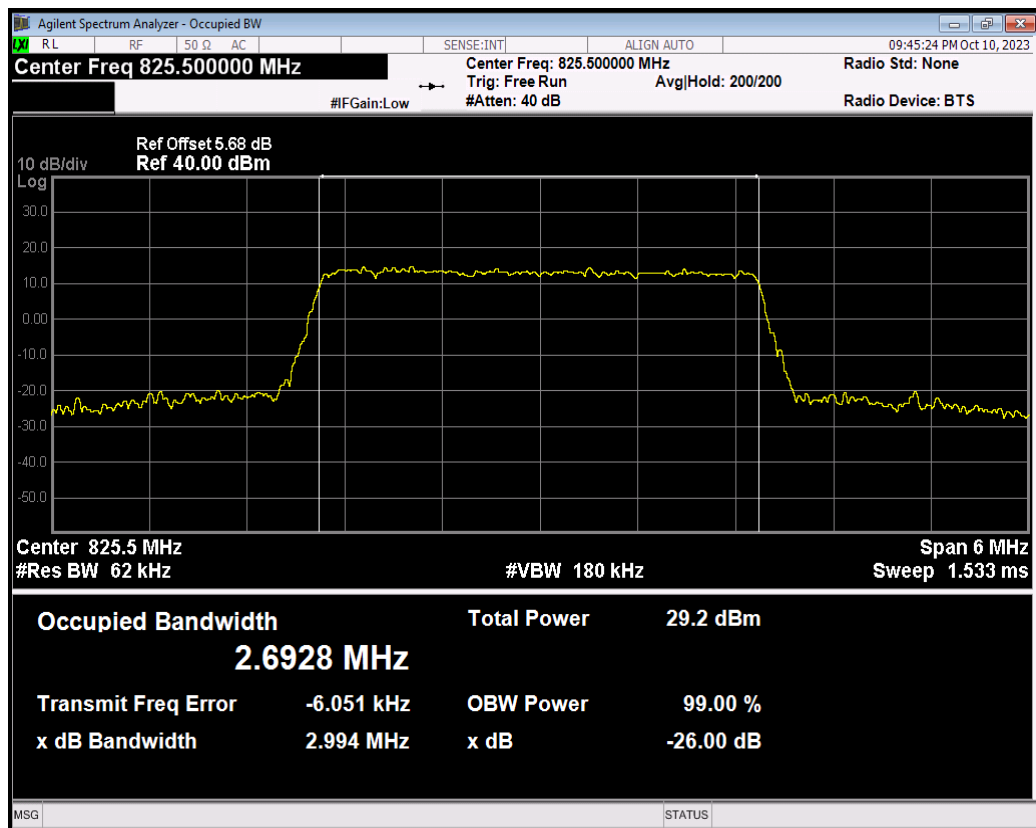
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



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

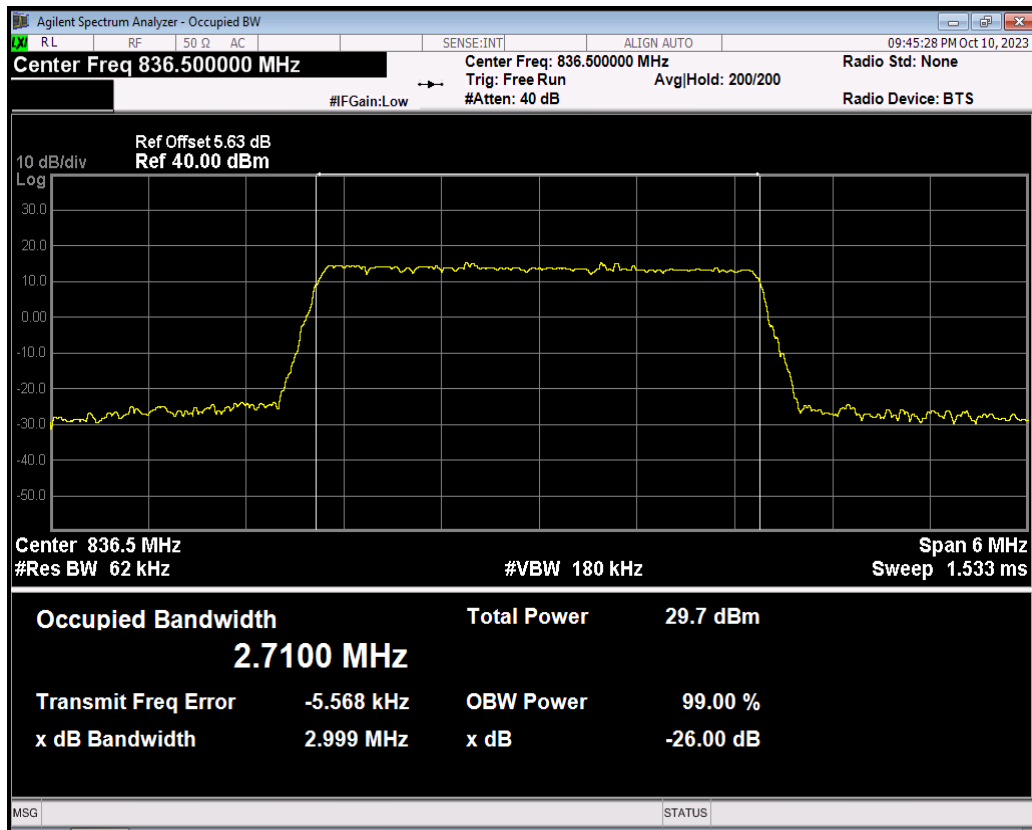


Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0

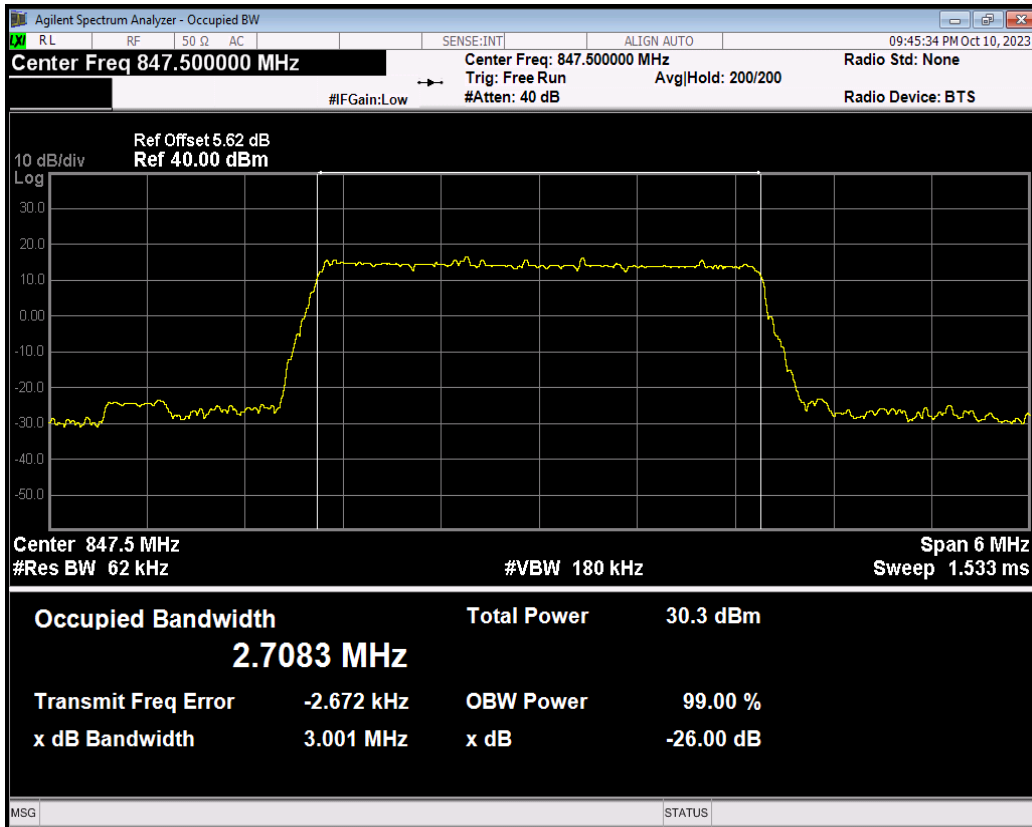




Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0

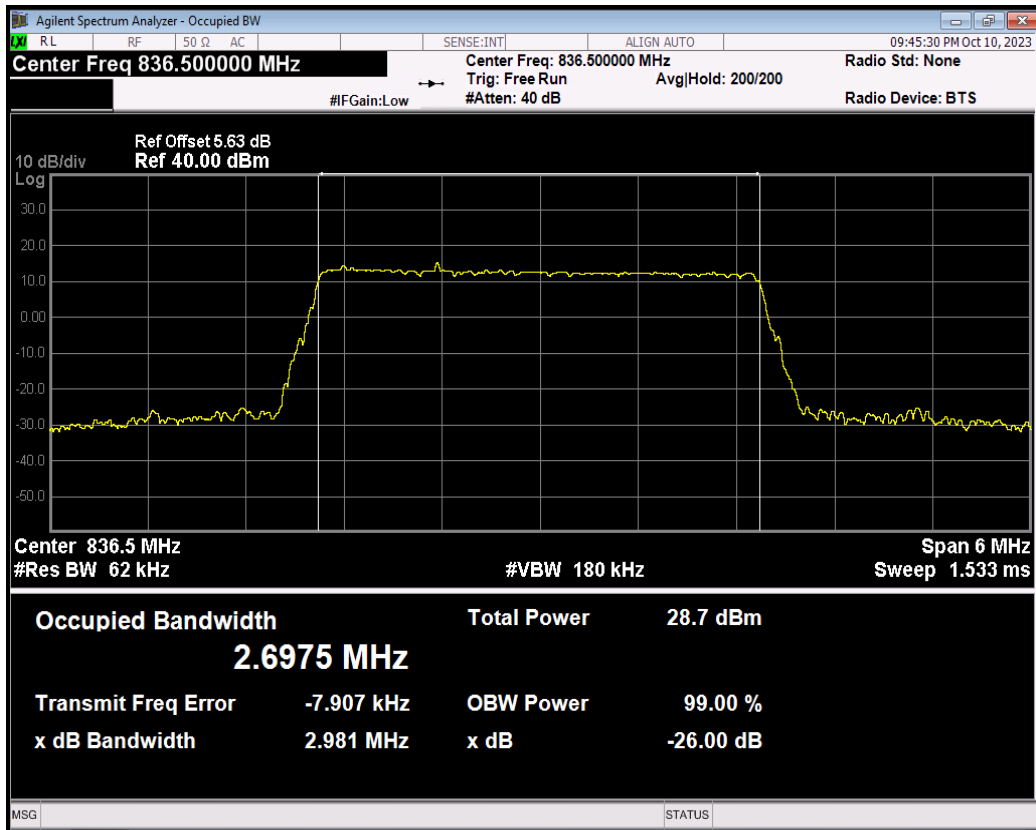


Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0

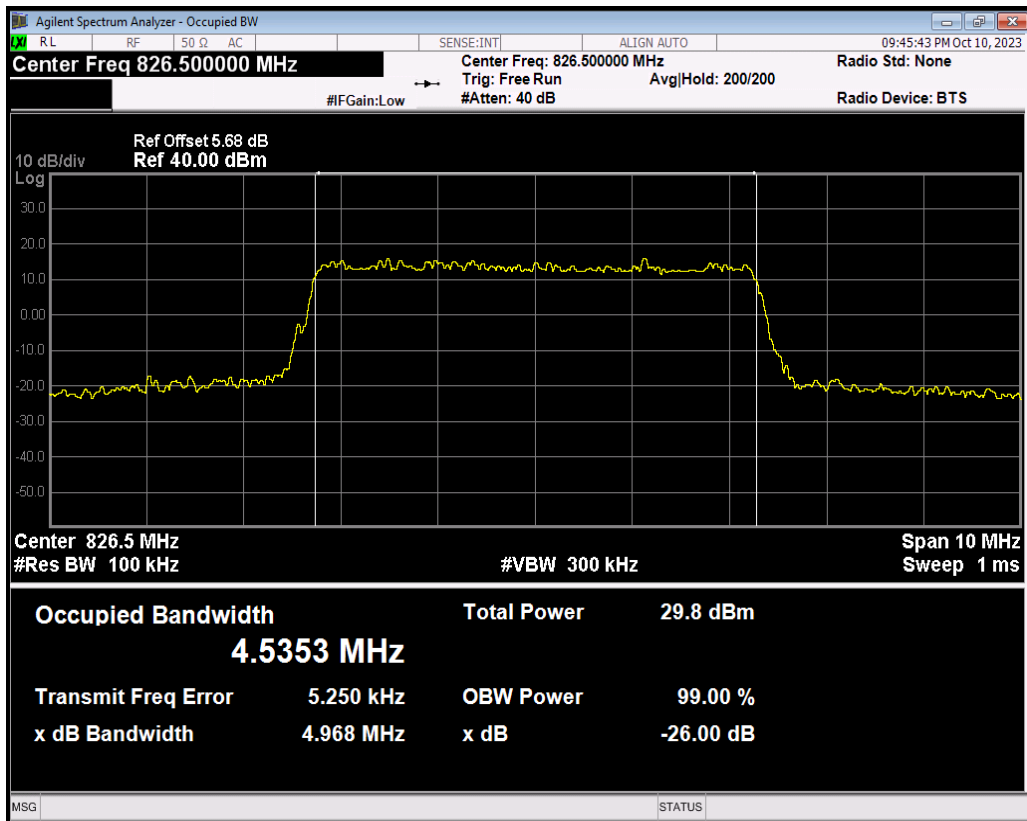




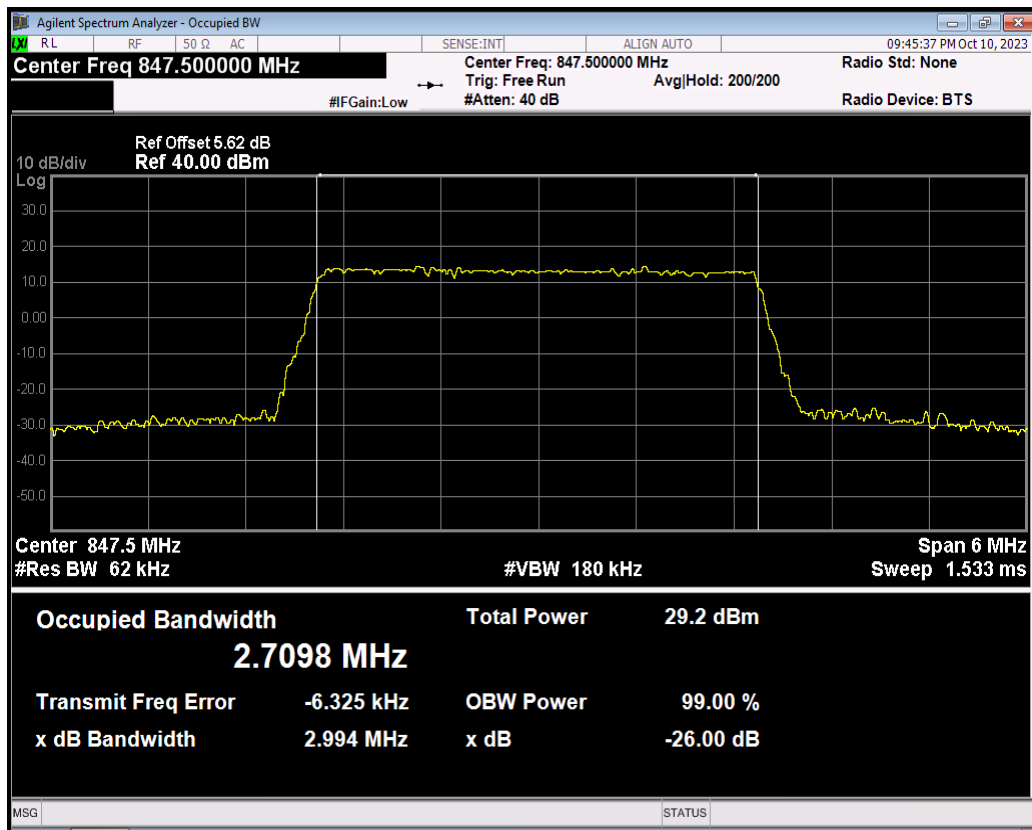
Band5 16QAM BW=3MHz Channel=20525 RB Size=15 Position=#0



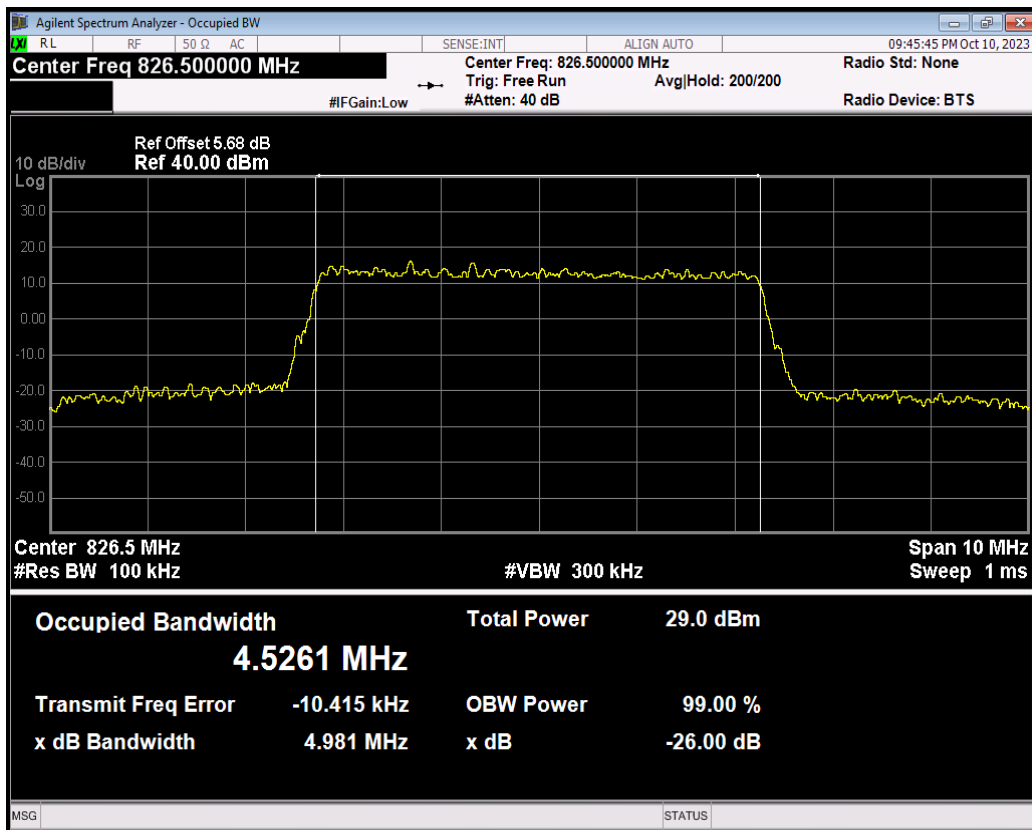
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



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

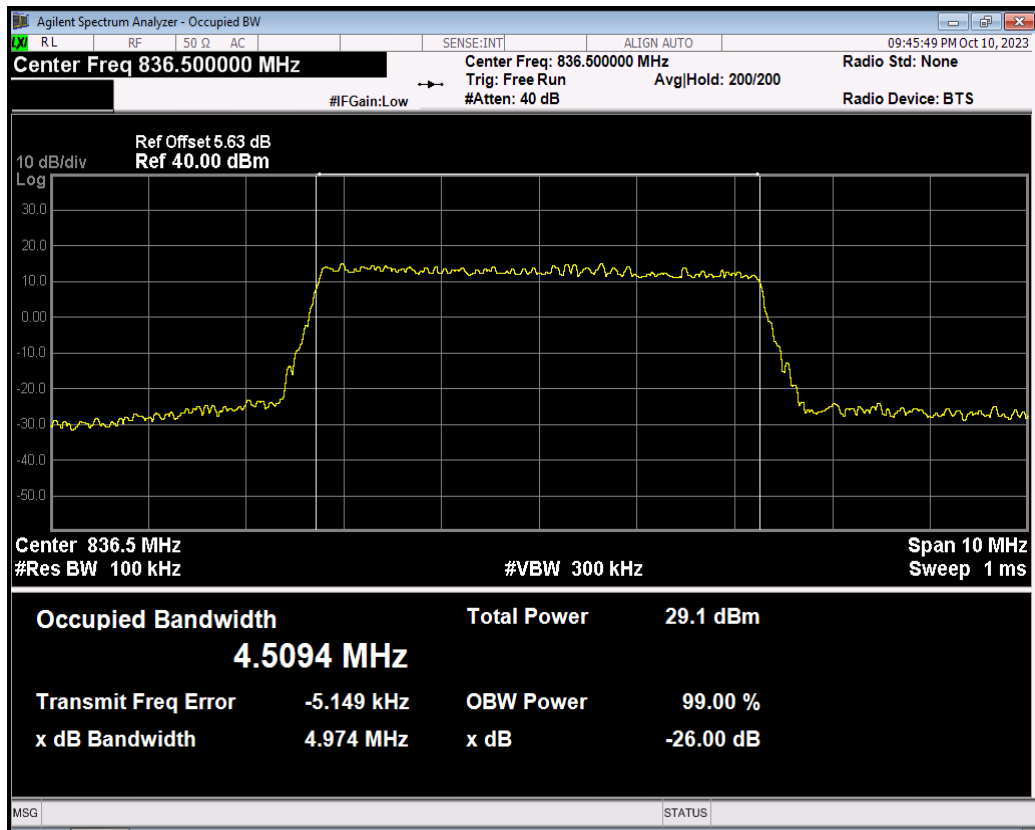


Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0

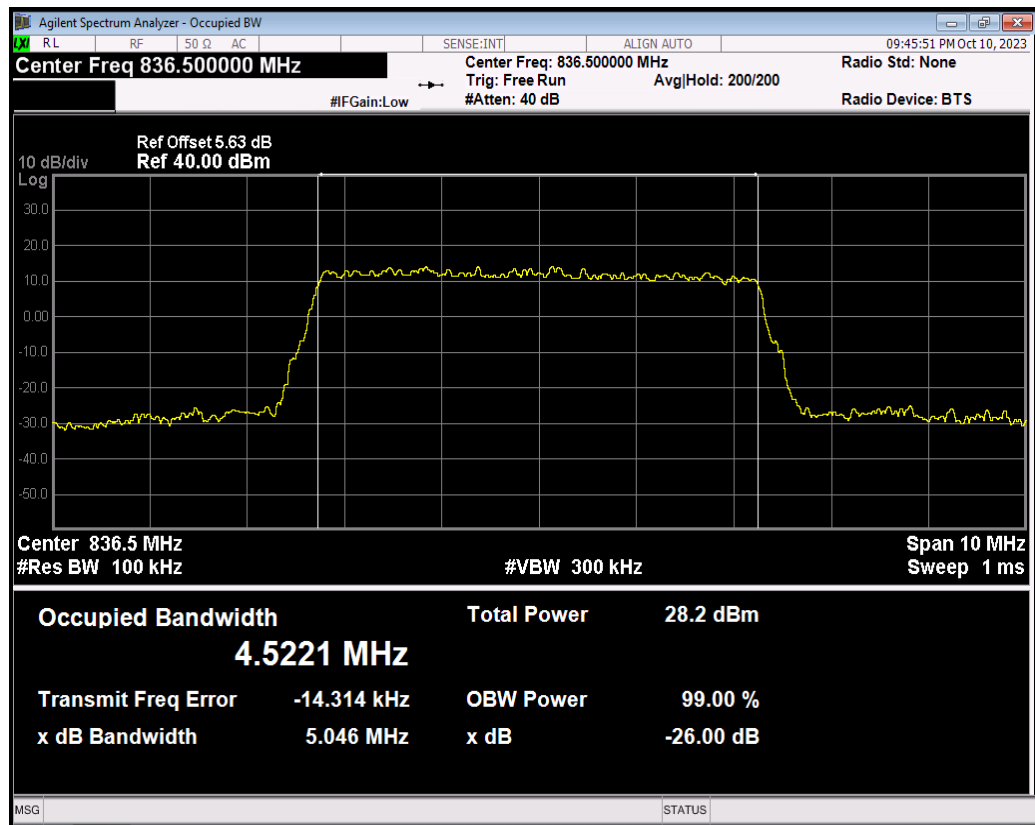




Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0

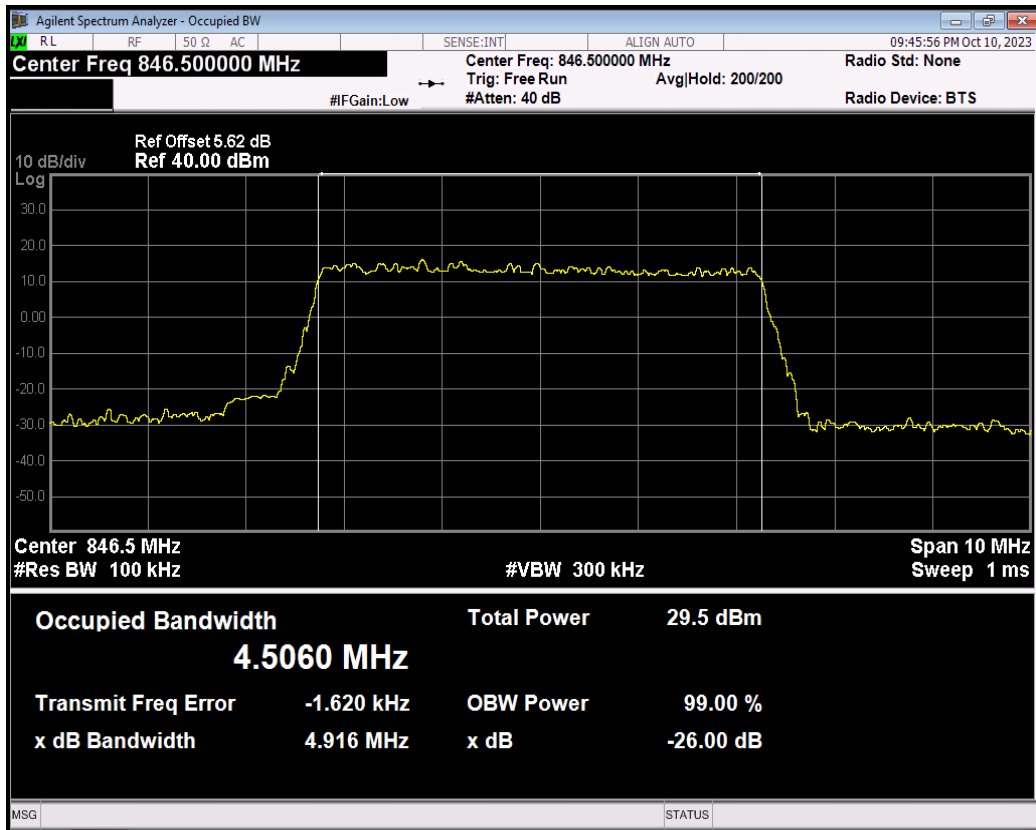


Band5 16QAM BW=5MHz Channel=20525 RB Size=25 Position=#0

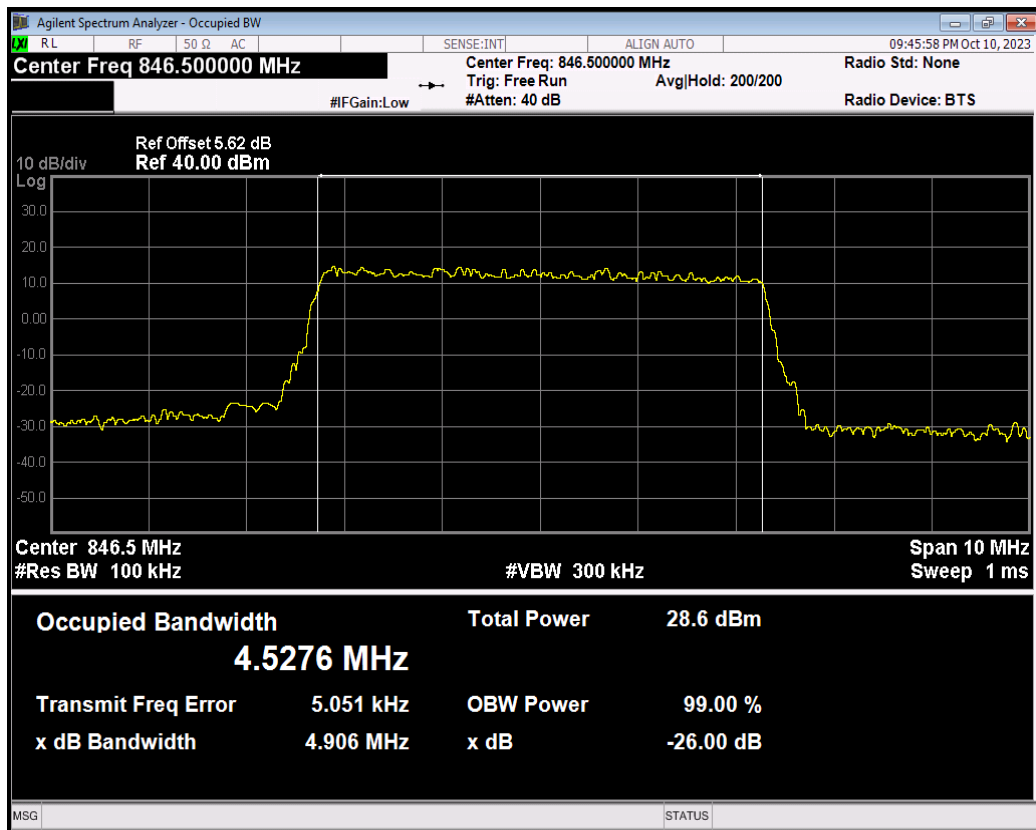




Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0

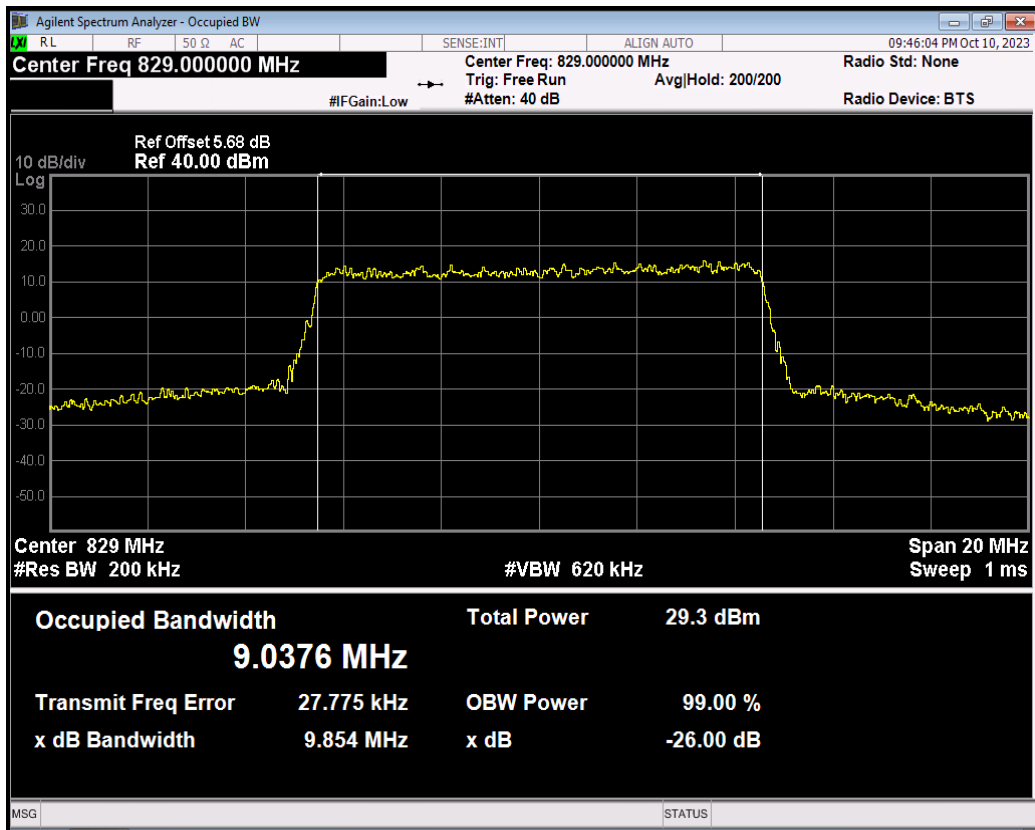


Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0

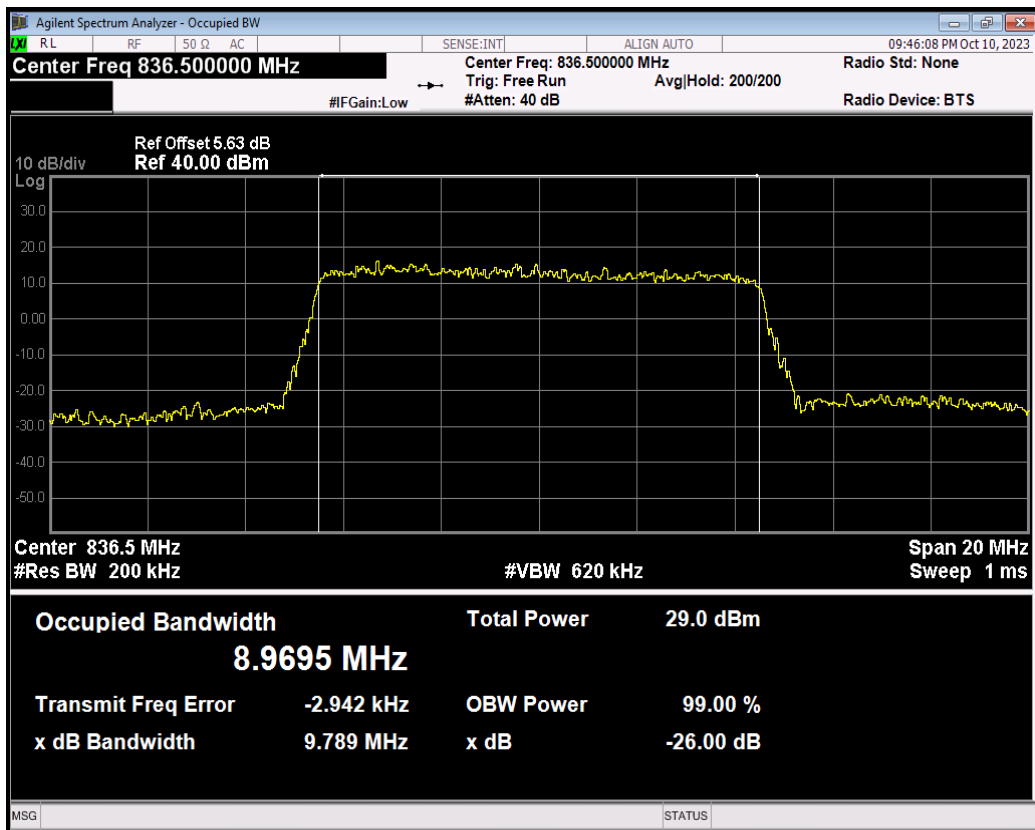




Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0

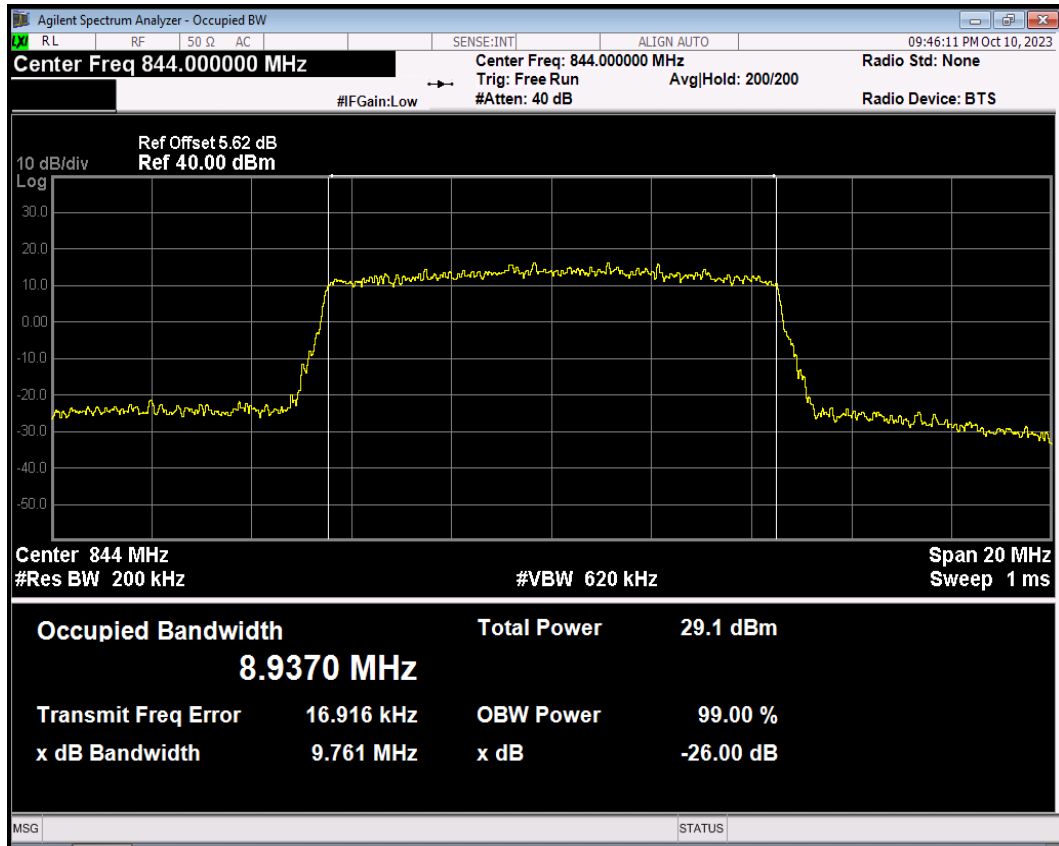


Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0





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



Appendix 5. Band edge

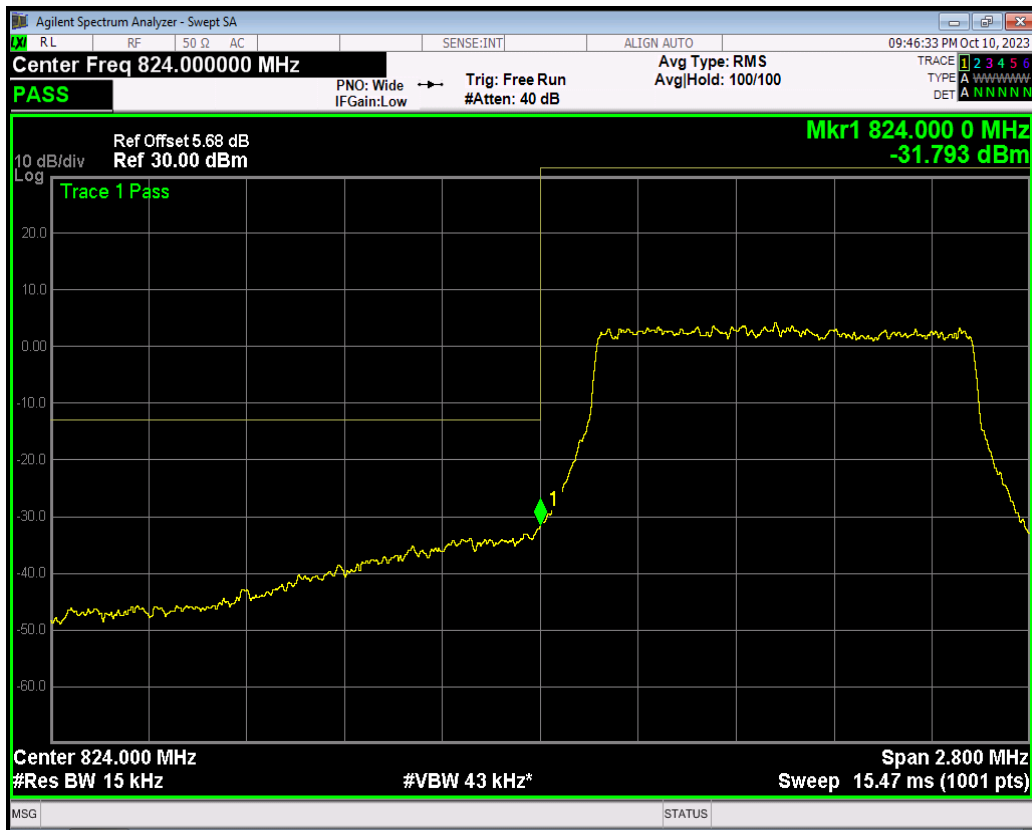
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	824.00	-30.40	-13	PASS
Band5	1.4	20407	6	#0	16QAM	824.00	-31.79	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.00	-31.95	-13	PASS
Band5	1.4	20643	6	#0	16QAM	849.00	-32.82	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-26.82	-13	PASS
Band5	3	20415	15	#0	16QAM	823.99	-28.06	-13	PASS
Band5	3	20635	15	#0	QPSK	849.01	-29.40	-13	PASS
Band5	3	20635	15	#0	16QAM	849.00	-30.87	-13	PASS
Band5	5	20425	25	#0	QPSK	824.00	-27.51	-13	PASS
Band5	5	20425	25	#0	16QAM	824.00	-26.91	-13	PASS
Band5	5	20625	25	#0	QPSK	849.01	-32.54	-13	PASS
Band5	5	20625	25	#0	16QAM	849.00	-31.75	-13	PASS
Band5	10	20450	50	#0	QPSK	824.00	-29.36	-13	PASS
Band5	10	20600	50	#0	QPSK	849.00	-32.49	-13	PASS

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





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



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

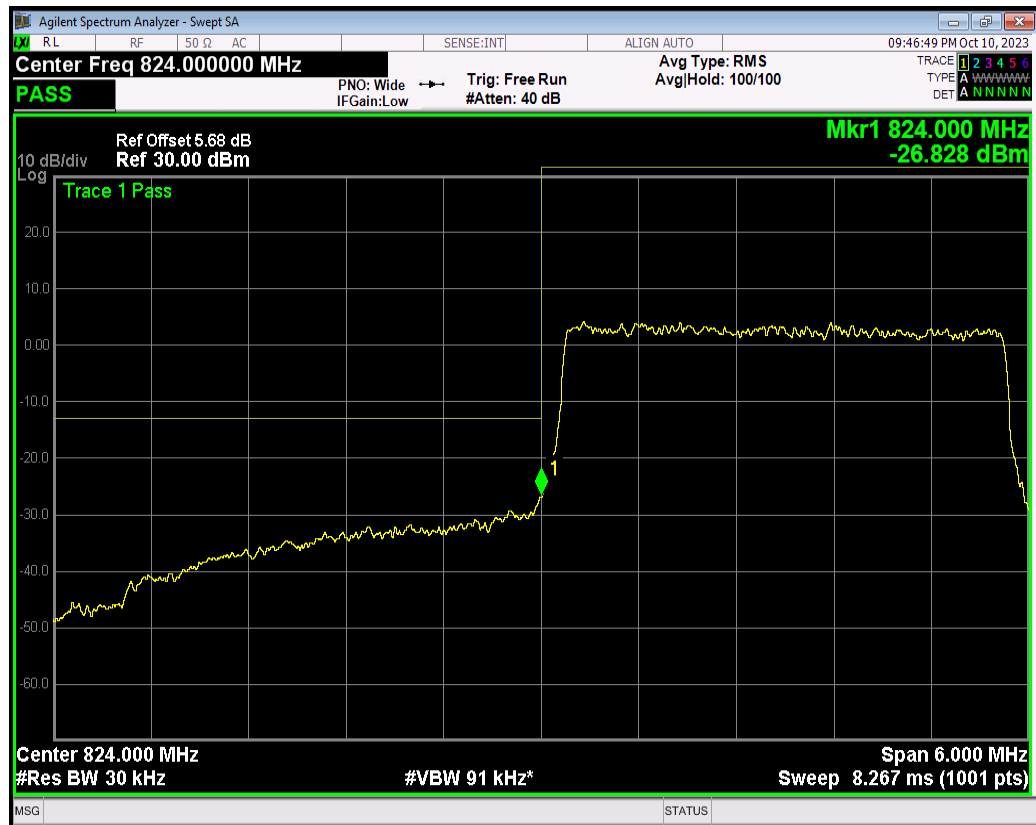




Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0

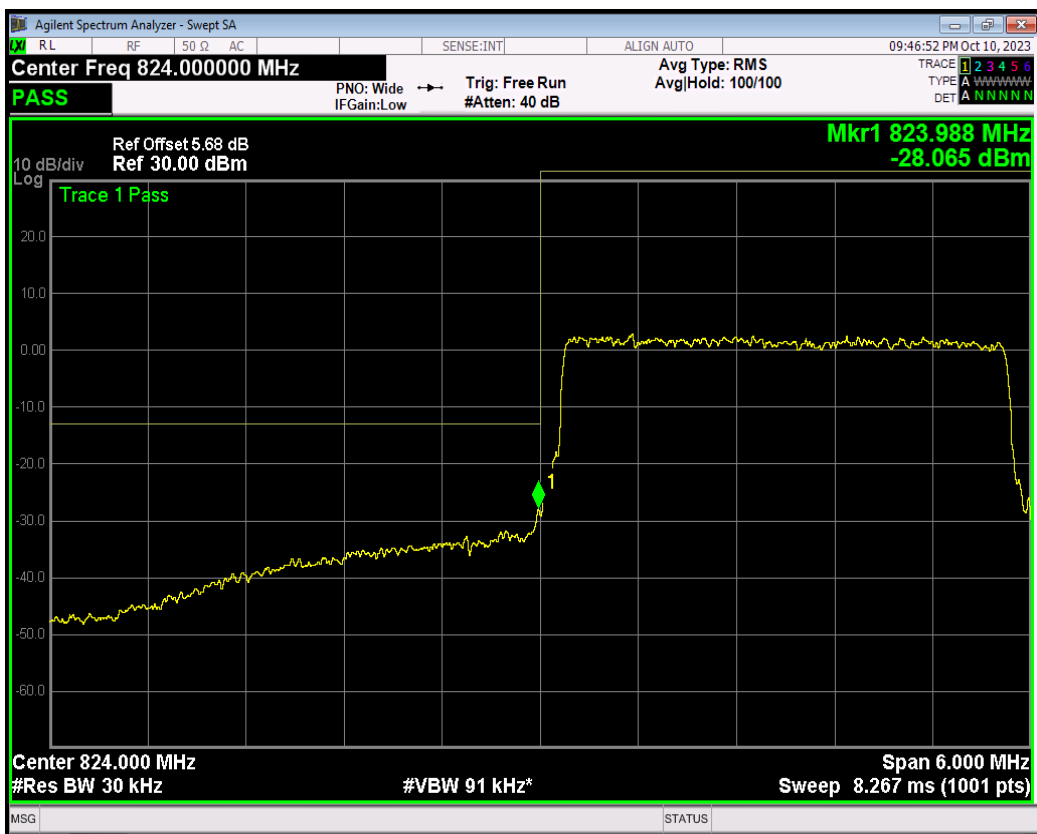


Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0

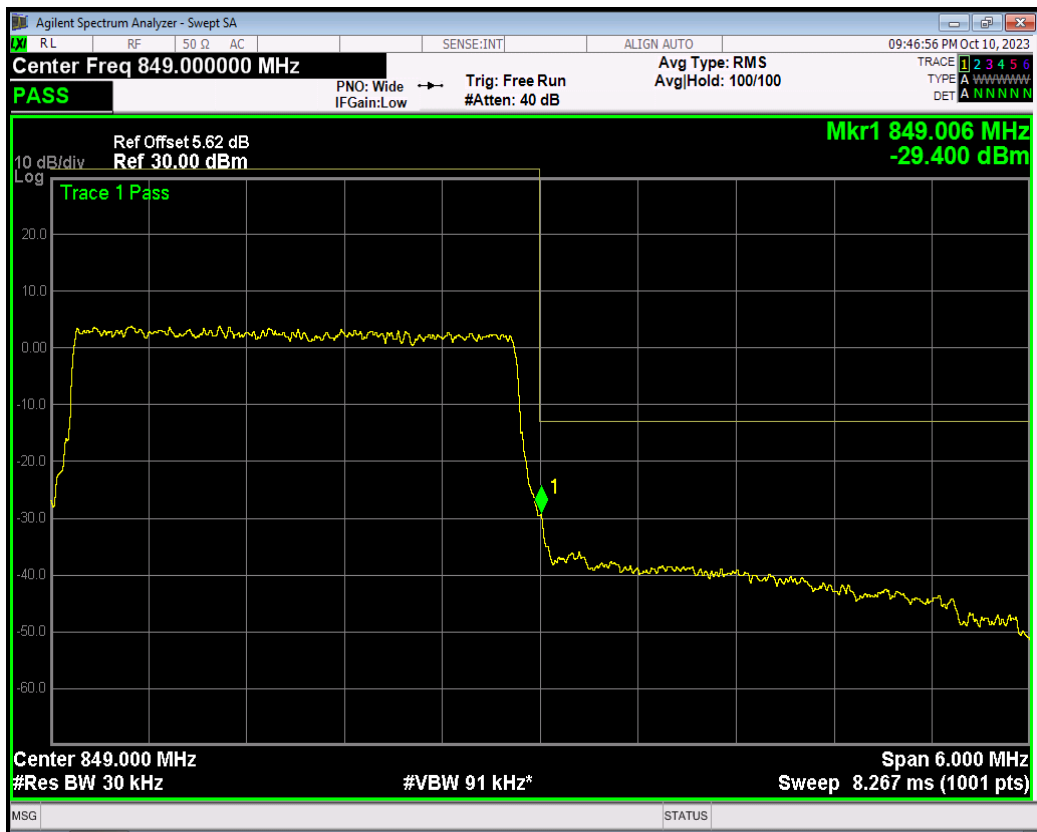




Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



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

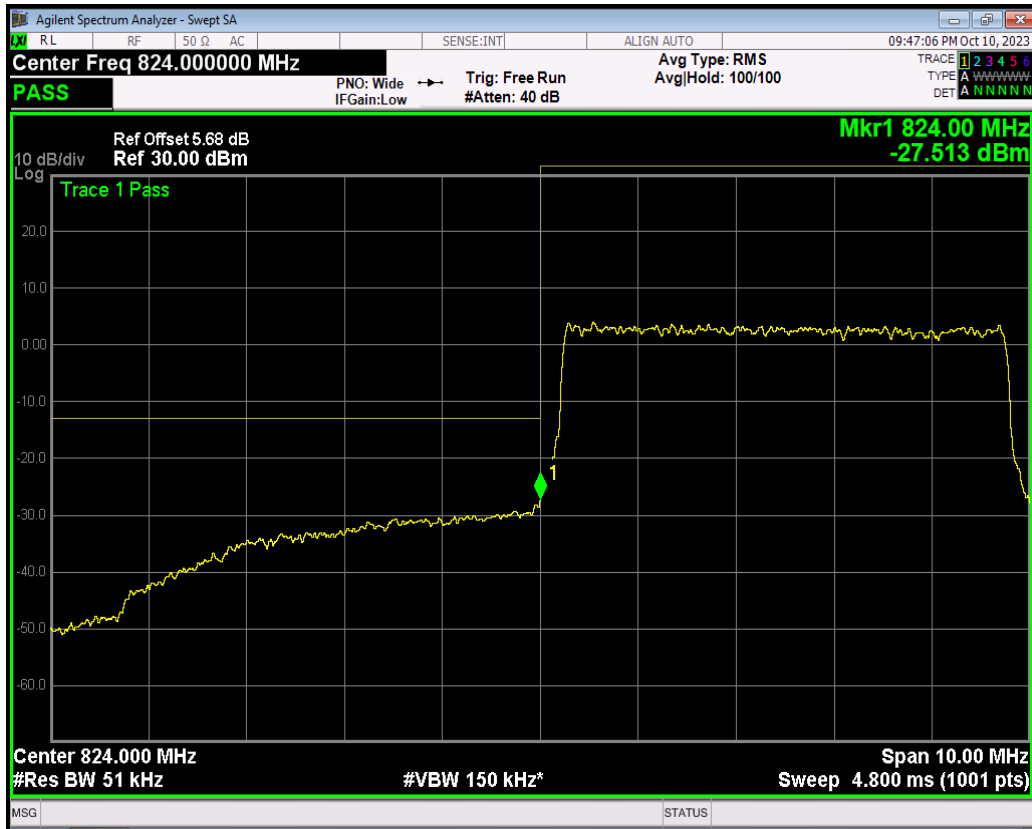




Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0

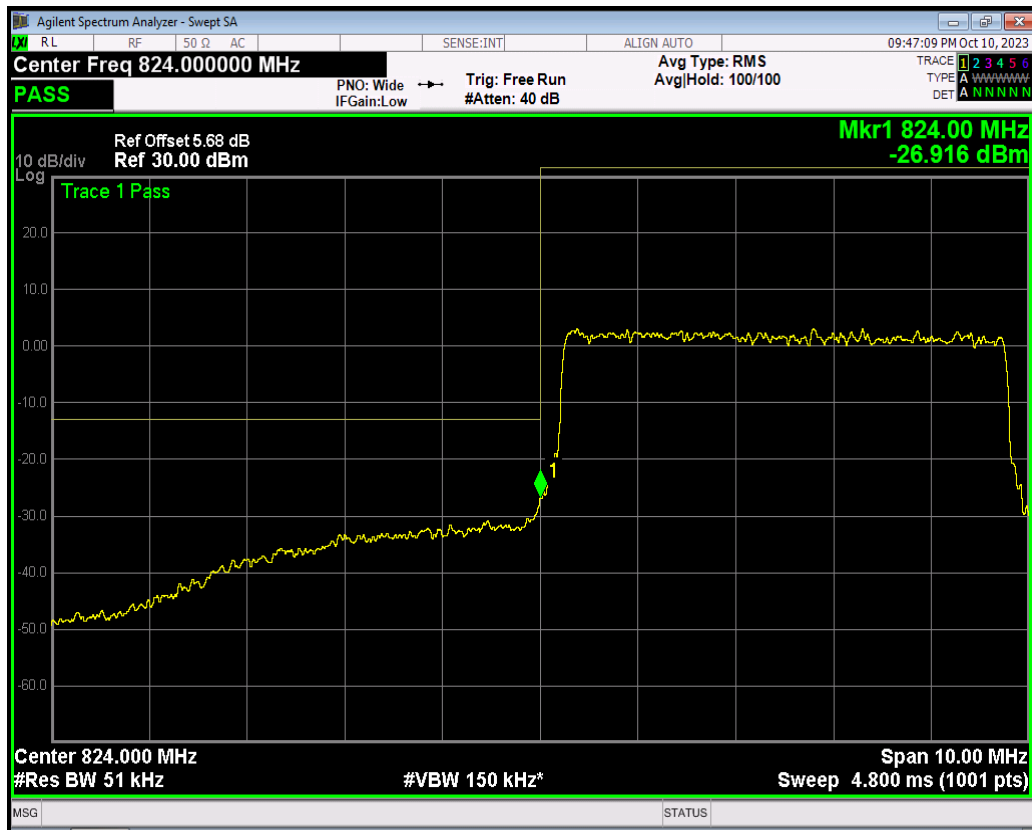


Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0





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

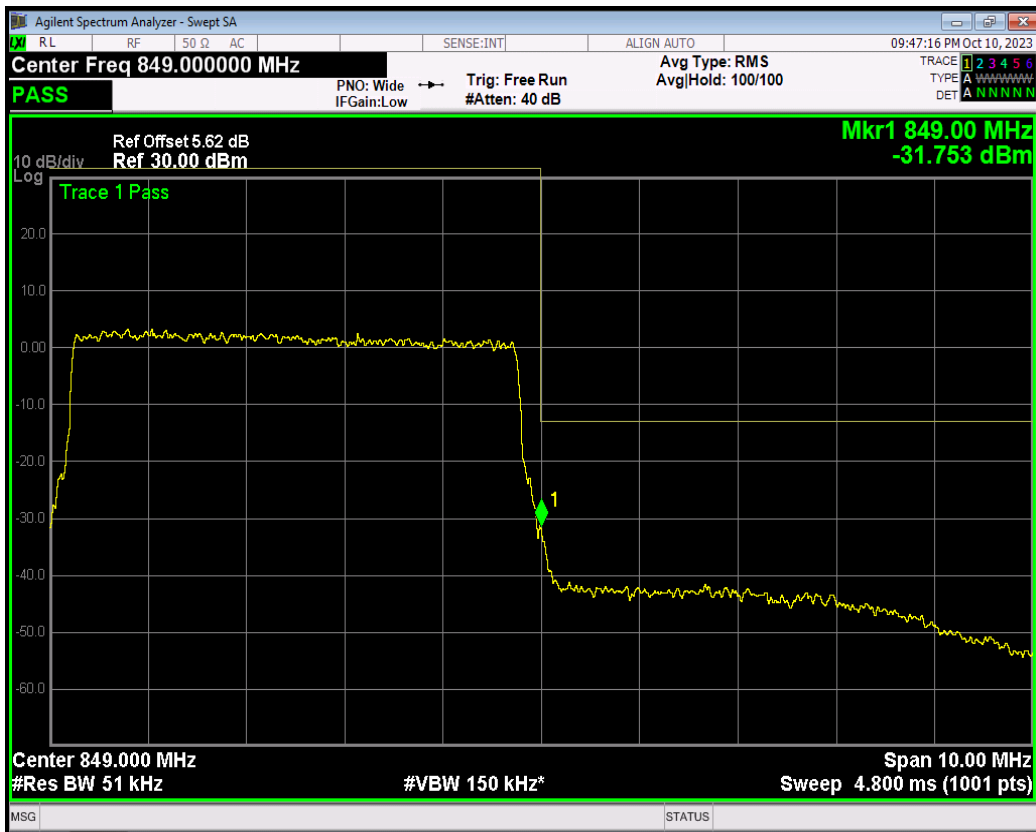


Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0

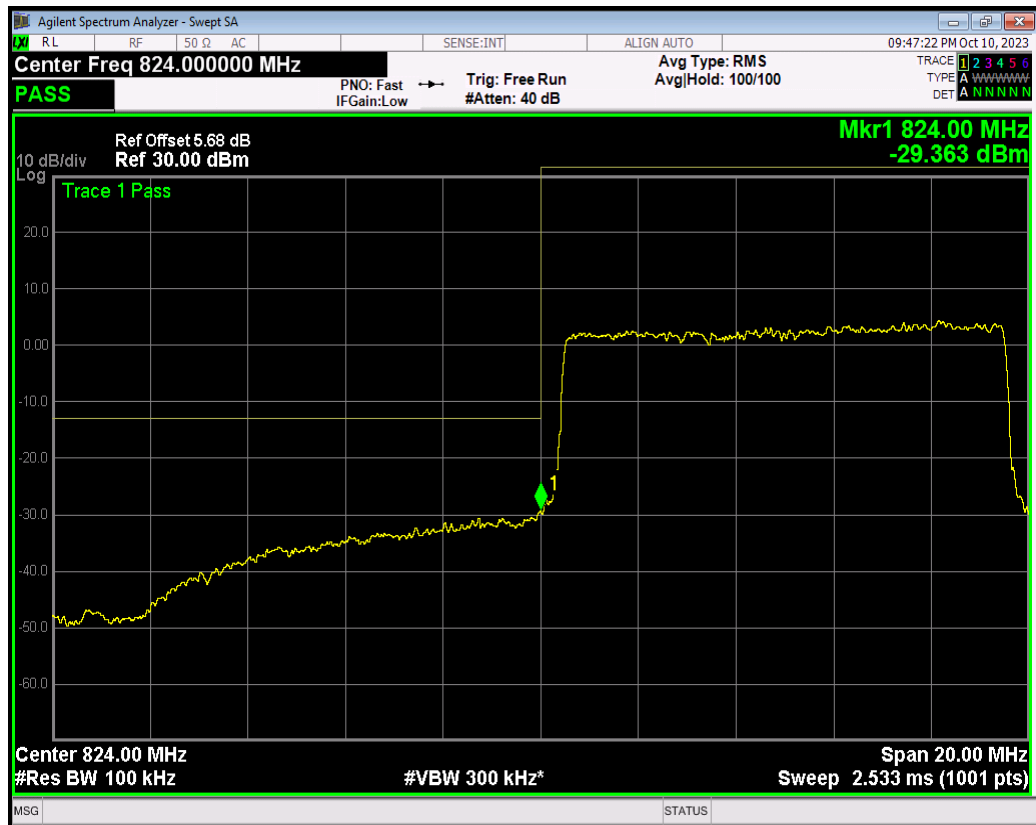




Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



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





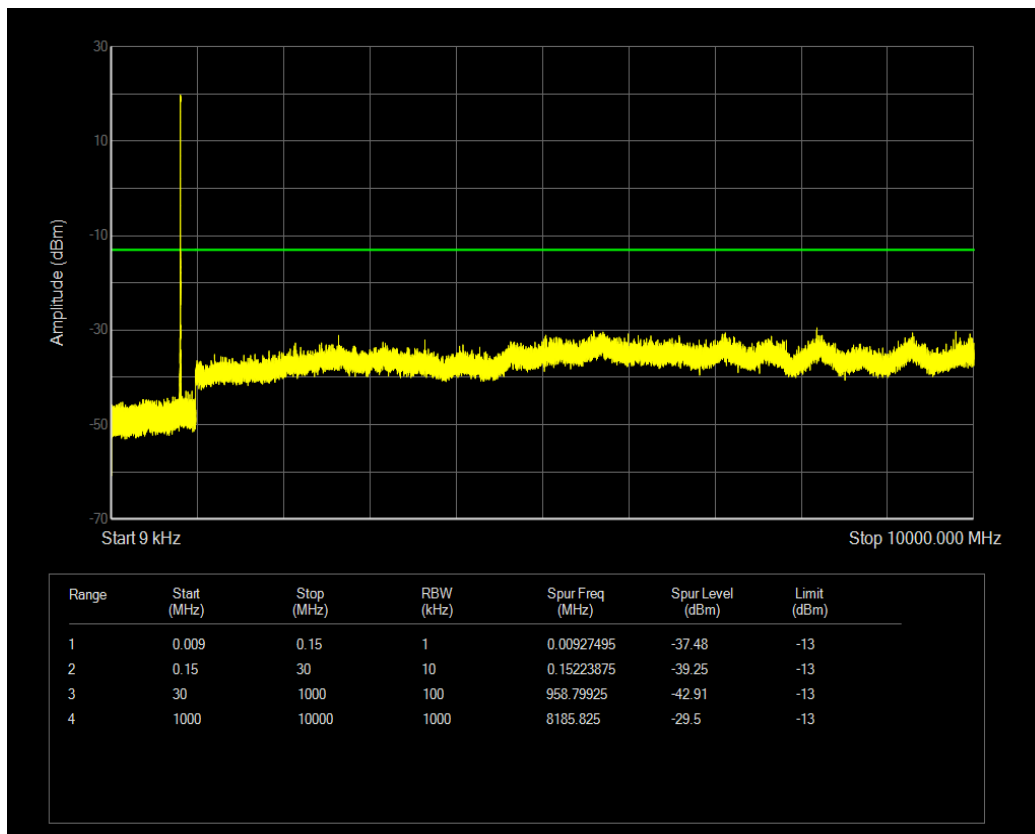
Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0



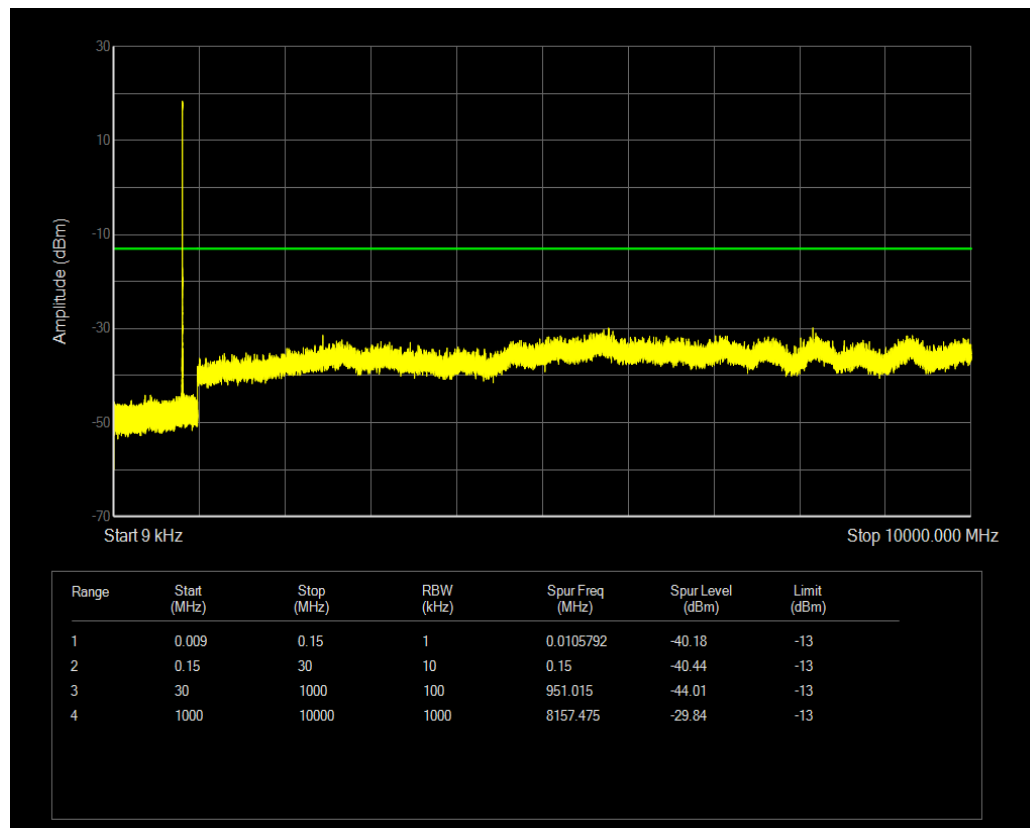
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	8185.83	-29.50	-13	PASS
Band5	1.4	20407	6	#0	16QAM	8157.48	-29.84	-13	PASS
Band5	1.4	20525	6	#0	QPSK	5665.15	-29.97	-13	PASS
Band5	1.4	20525	6	#0	16QAM	5704.53	-29.51	-13	PASS
Band5	1.4	20643	6	#0	QPSK	5771.58	-30.67	-13	PASS
Band5	1.4	20643	6	#0	16QAM	5732.20	-29.97	-13	PASS
Band5	3	20415	15	#0	QPSK	5788.45	-29.20	-13	PASS
Band5	3	20415	15	#0	16QAM	5699.80	-28.09	-13	PASS
Band5	3	20525	15	#0	QPSK	9230.73	-28.93	-13	PASS
Band5	3	20525	15	#0	16QAM	5715.10	-29.98	-13	PASS
Band5	3	20635	15	#0	QPSK	5706.33	-29.90	-13	PASS
Band5	3	20635	15	#0	16QAM	5679.78	-29.68	-13	PASS
Band5	5	20425	25	#0	QPSK	5715.55	-30.11	-13	PASS
Band5	5	20425	25	#0	16QAM	5681.35	-28.61	-13	PASS
Band5	5	20525	25	#0	QPSK	9228.48	-28.85	-13	PASS
Band5	5	20525	25	#0	16QAM	5720.28	-29.43	-13	PASS
Band5	5	20625	25	#0	QPSK	5599.90	-29.67	-13	PASS
Band5	5	20625	25	#0	16QAM	5720.28	-30.00	-13	PASS
Band5	10	20450	50	#0	QPSK	5731.08	-29.48	-13	PASS
Band5	10	20525	50	#0	QPSK	5703.85	-29.66	-13	PASS
Band5	10	20600	50	#0	QPSK	5703.18	-29.99	-13	PASS

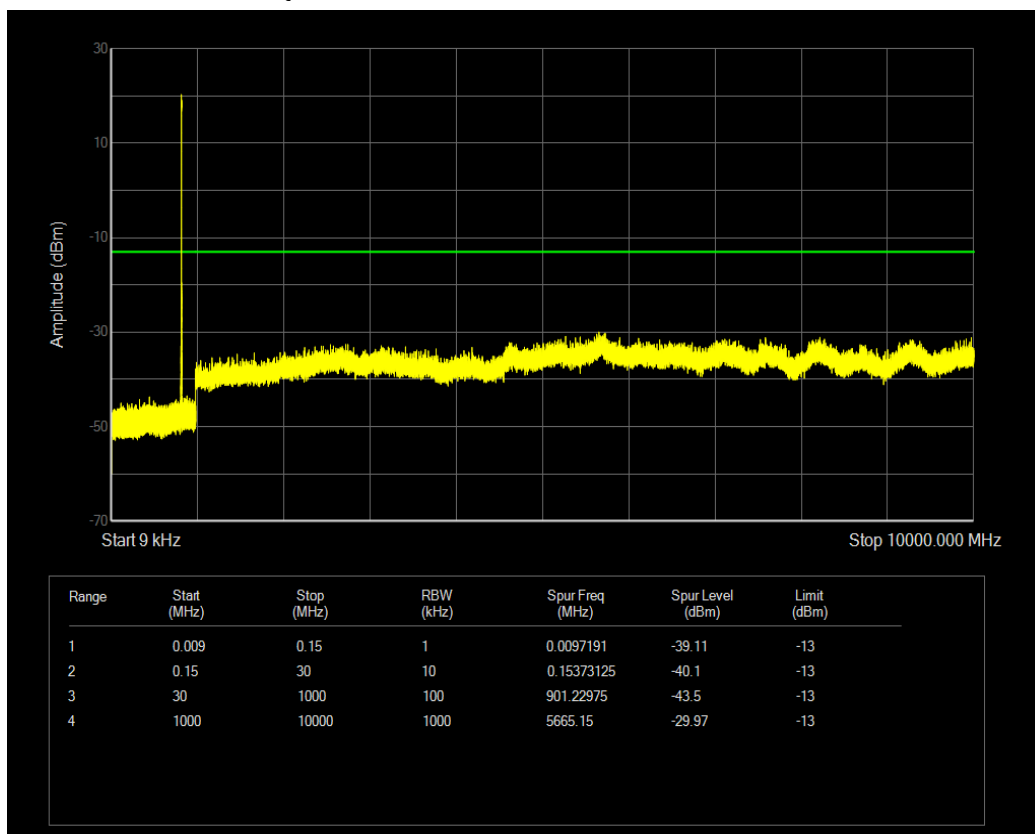
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



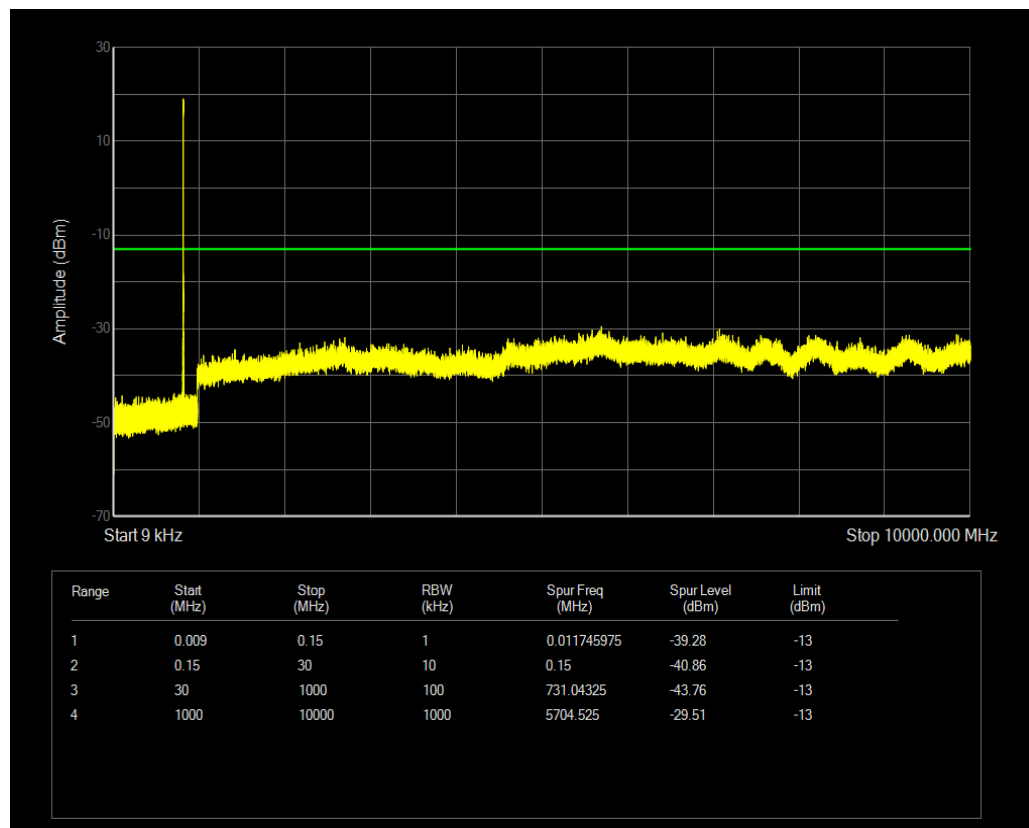
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0



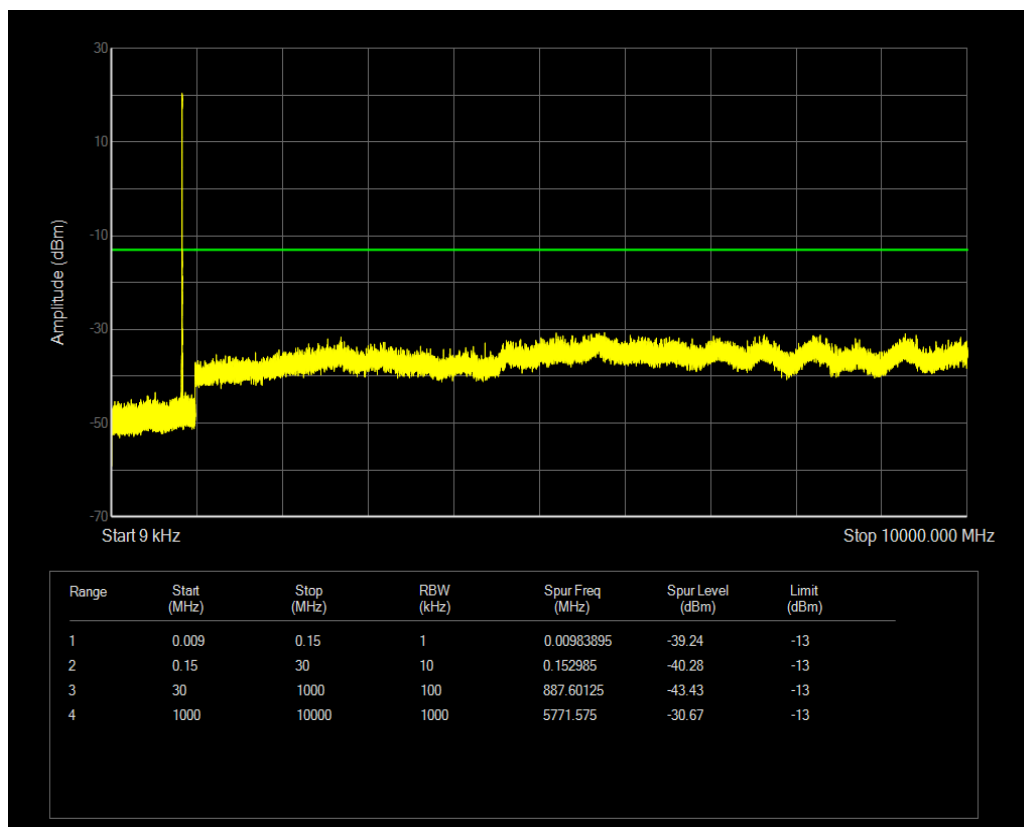
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0



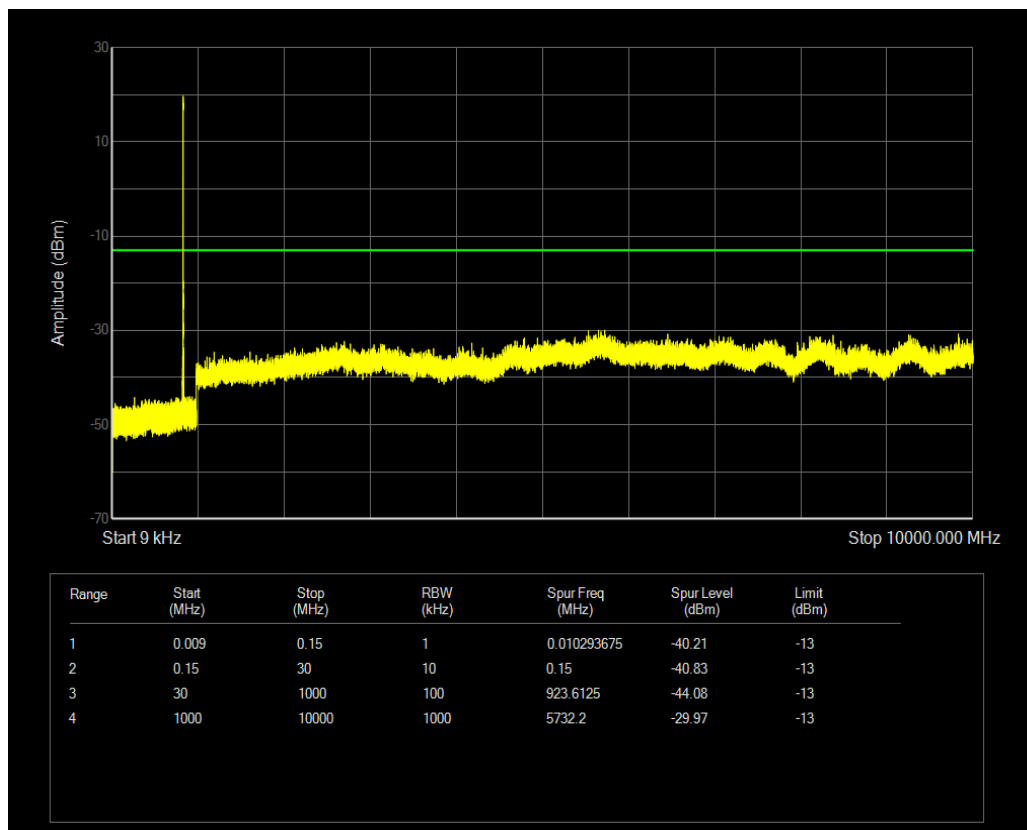
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=6 Position=#0



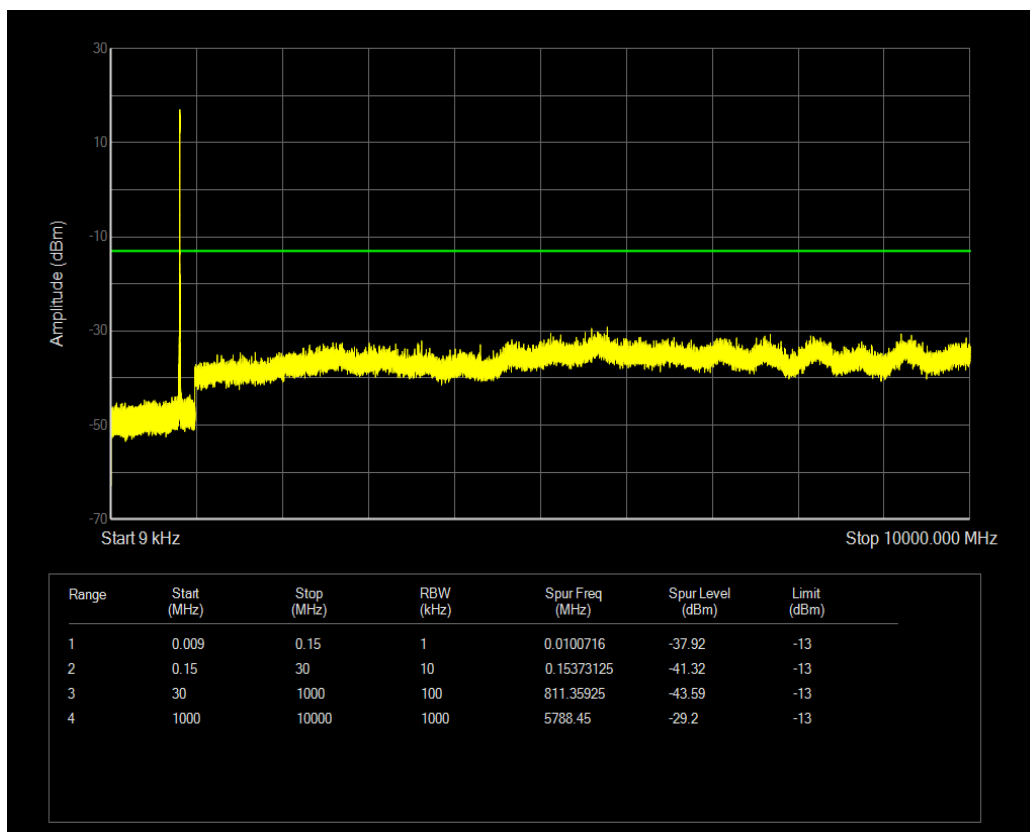
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



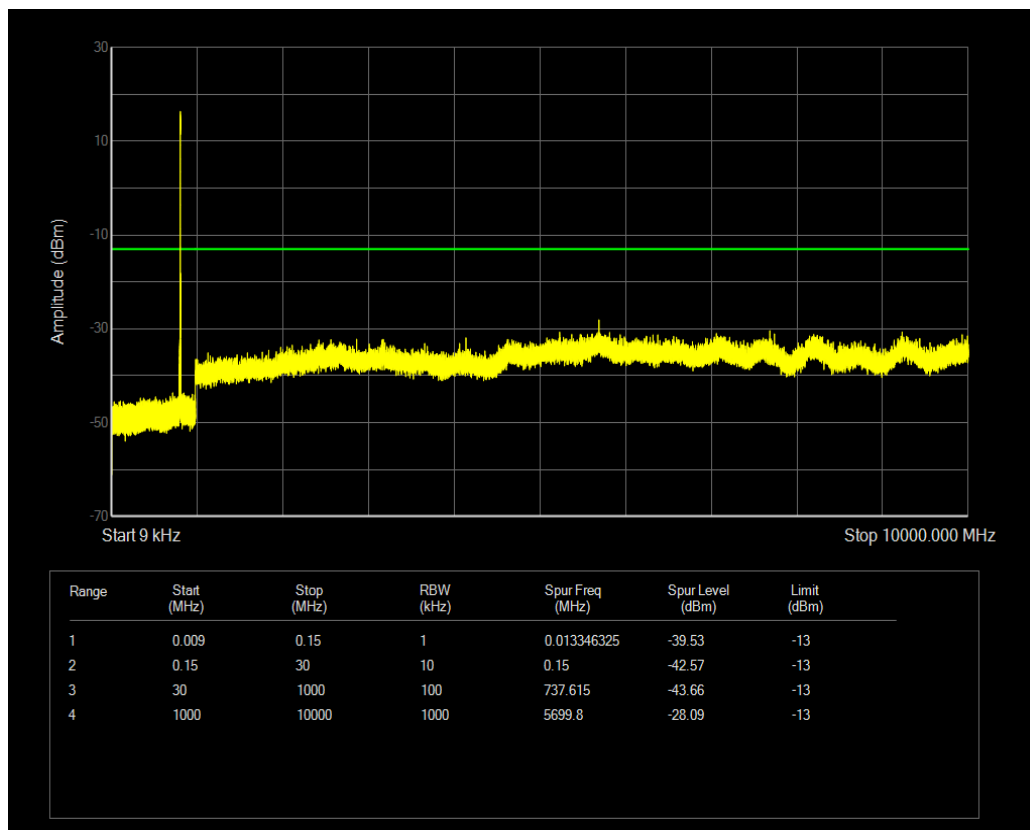
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



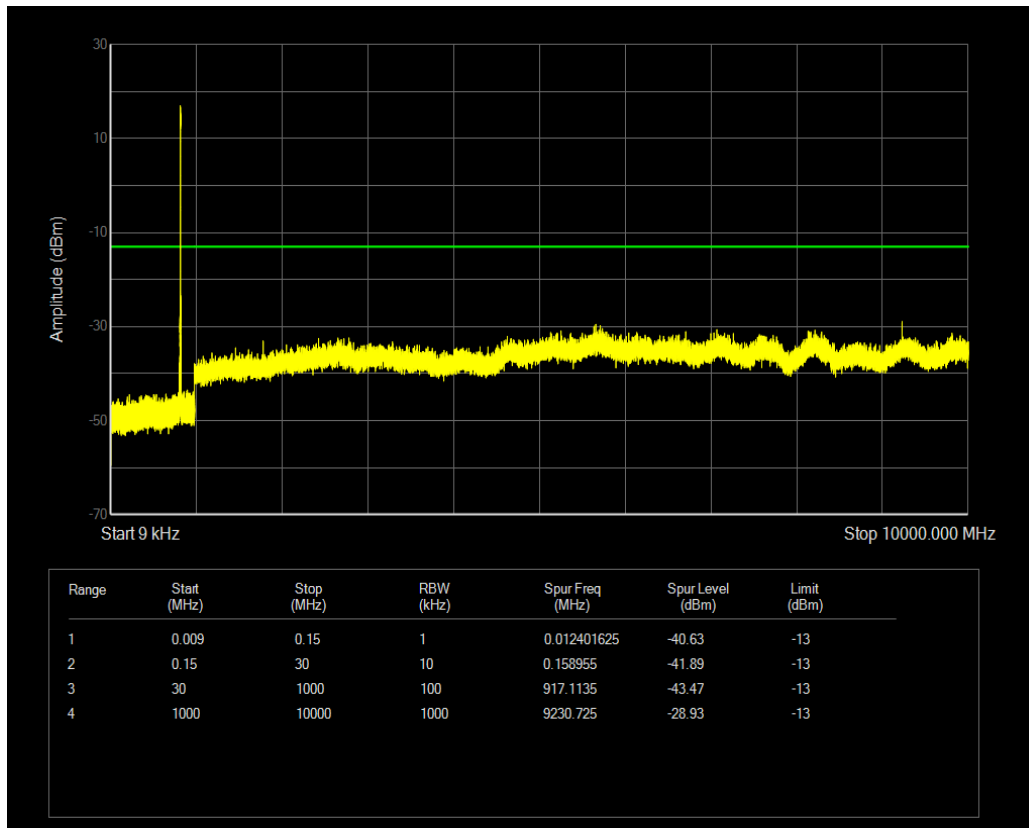
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



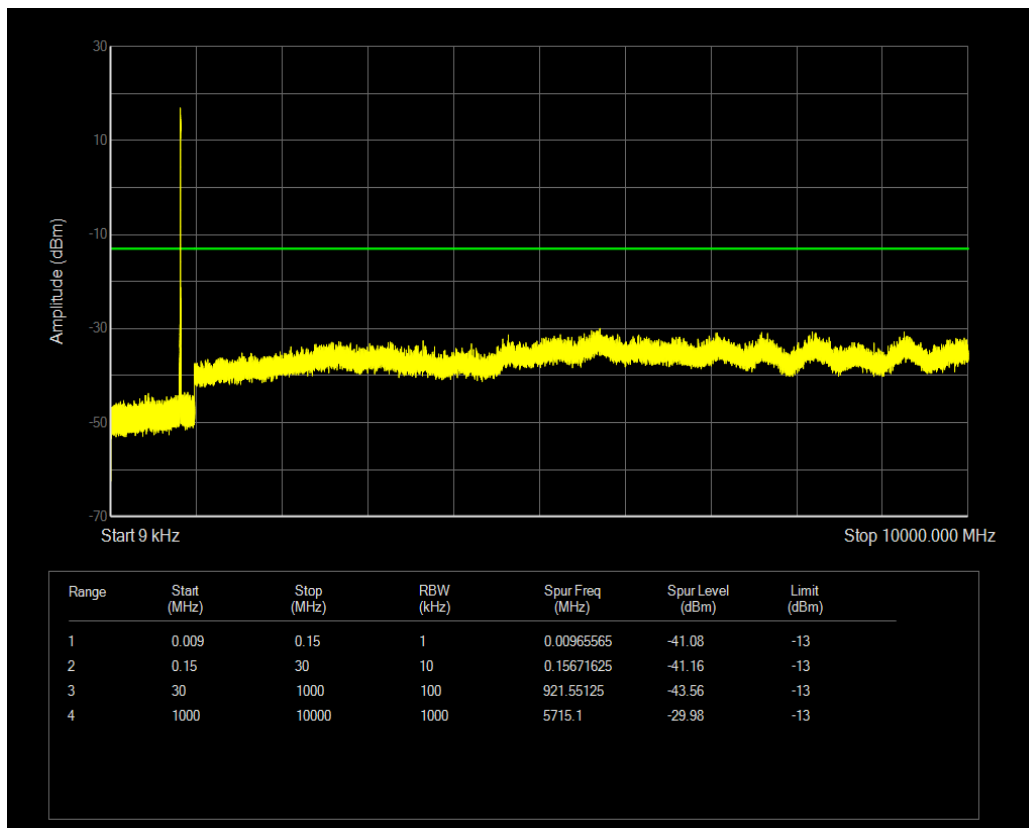
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



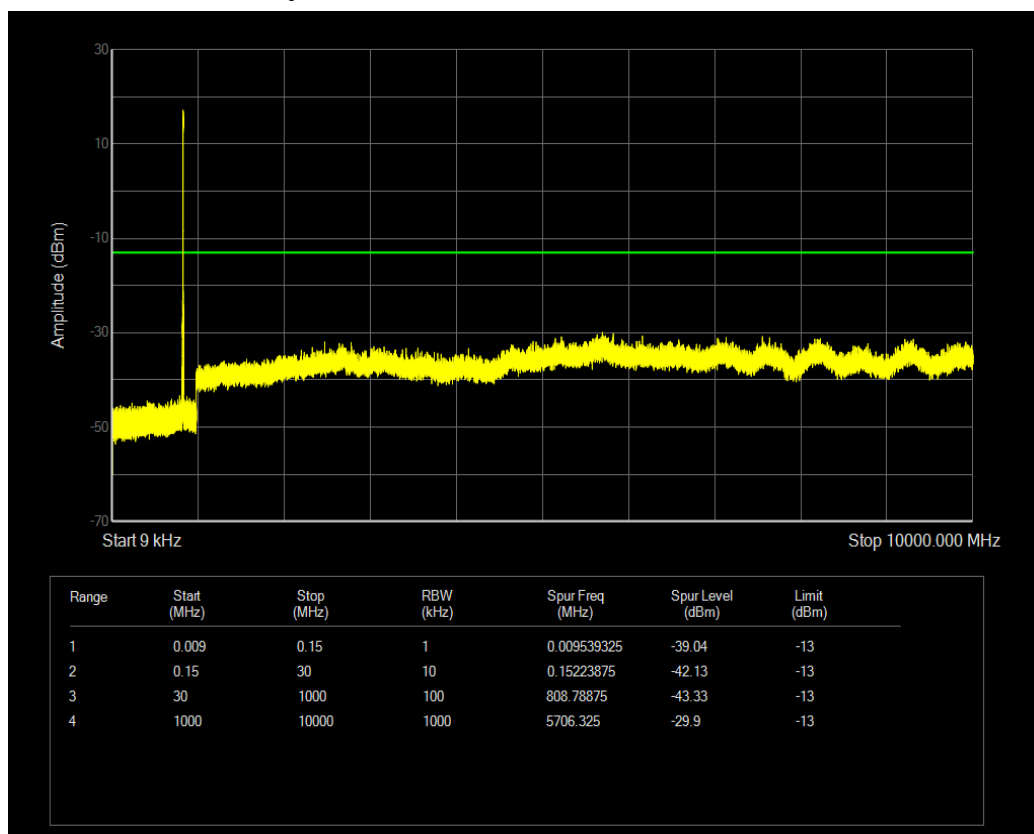
Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0



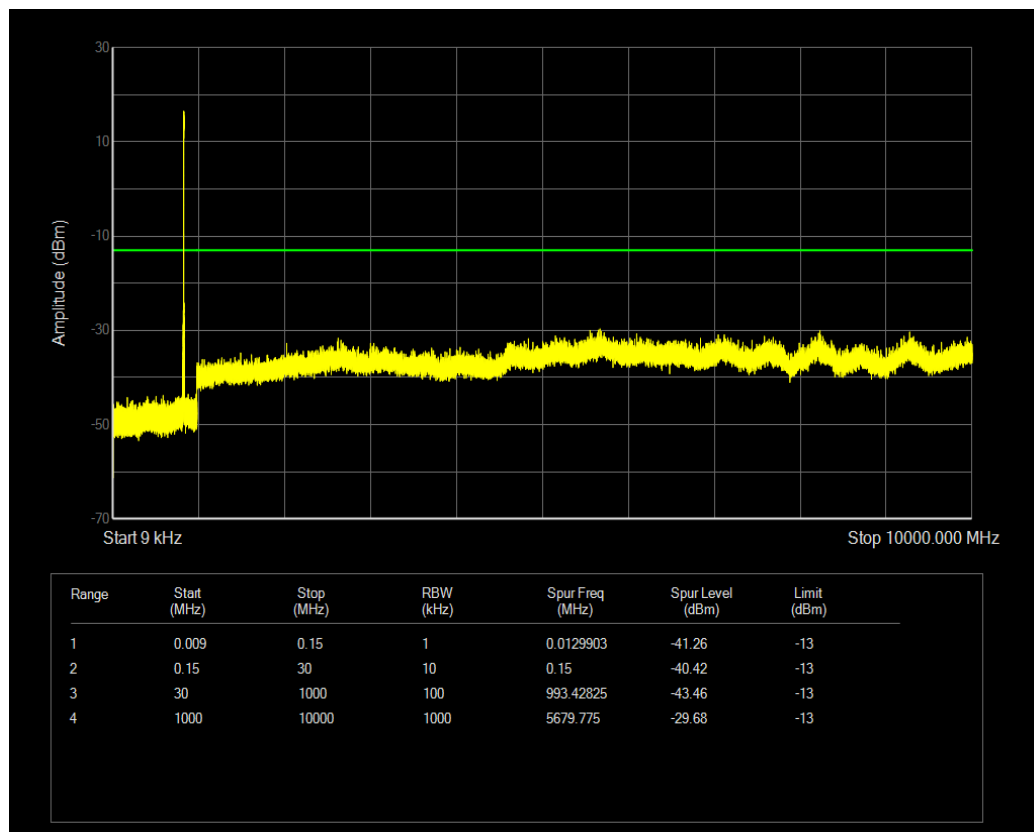
Band5 16QAM BW=3MHz Channel=20525 RB Size=15 Position=#0



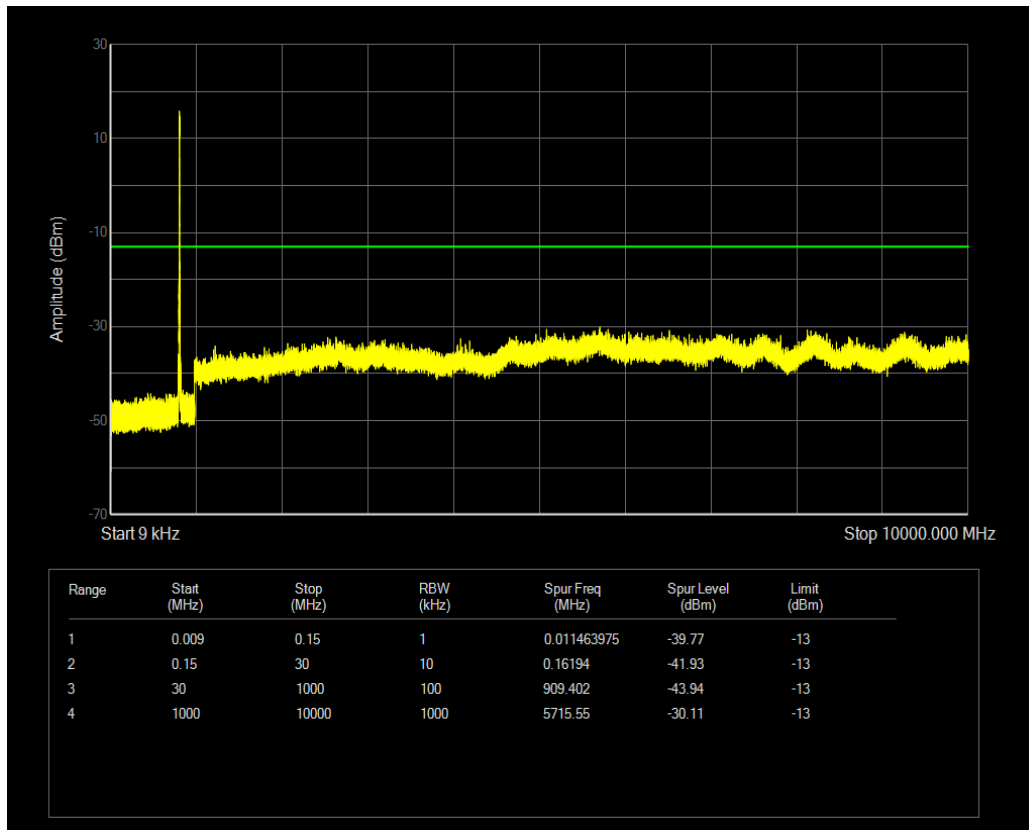
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



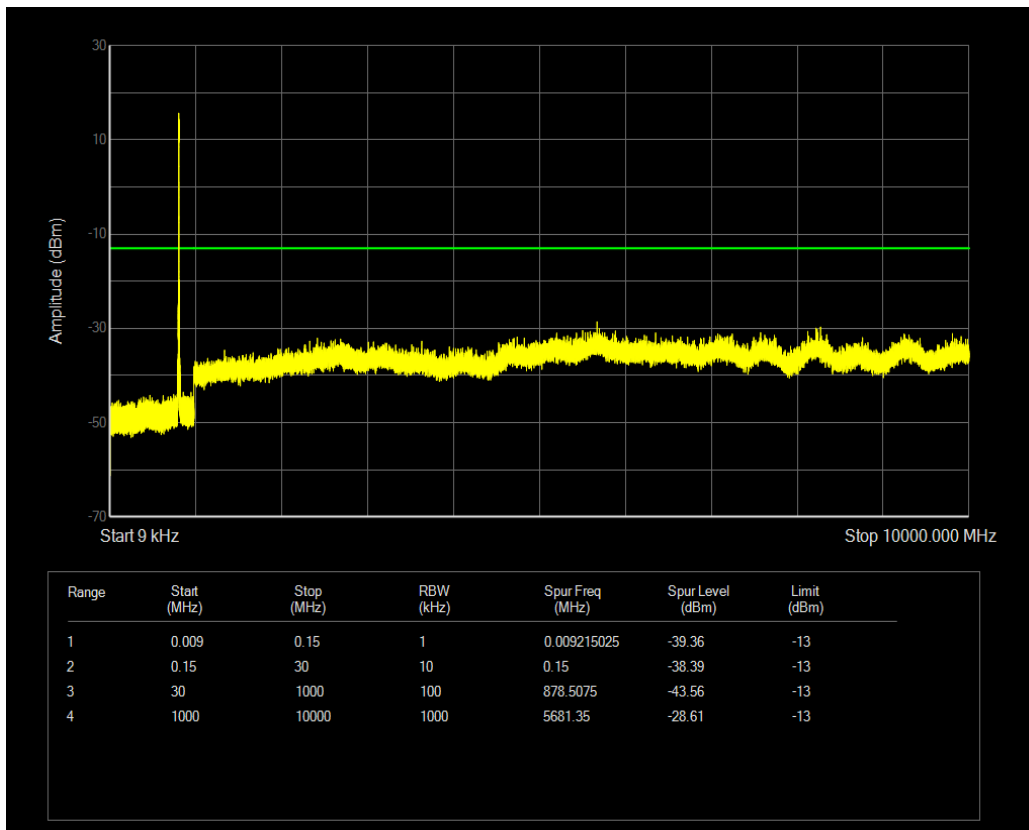
Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0



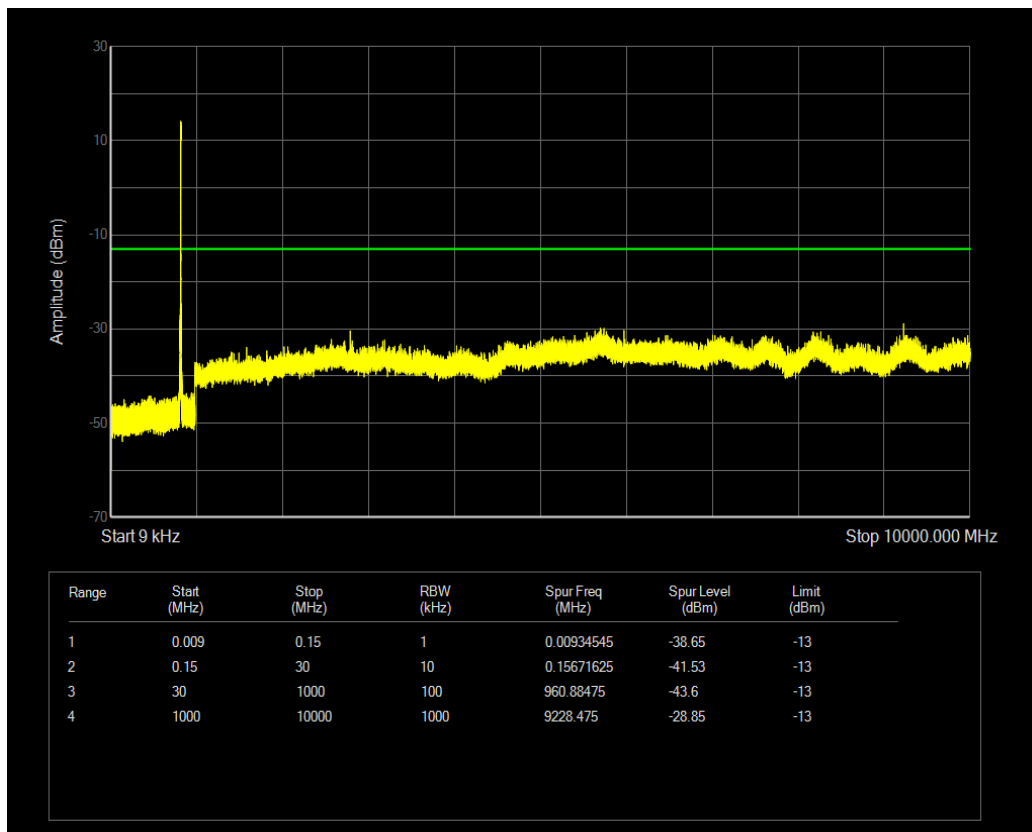
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



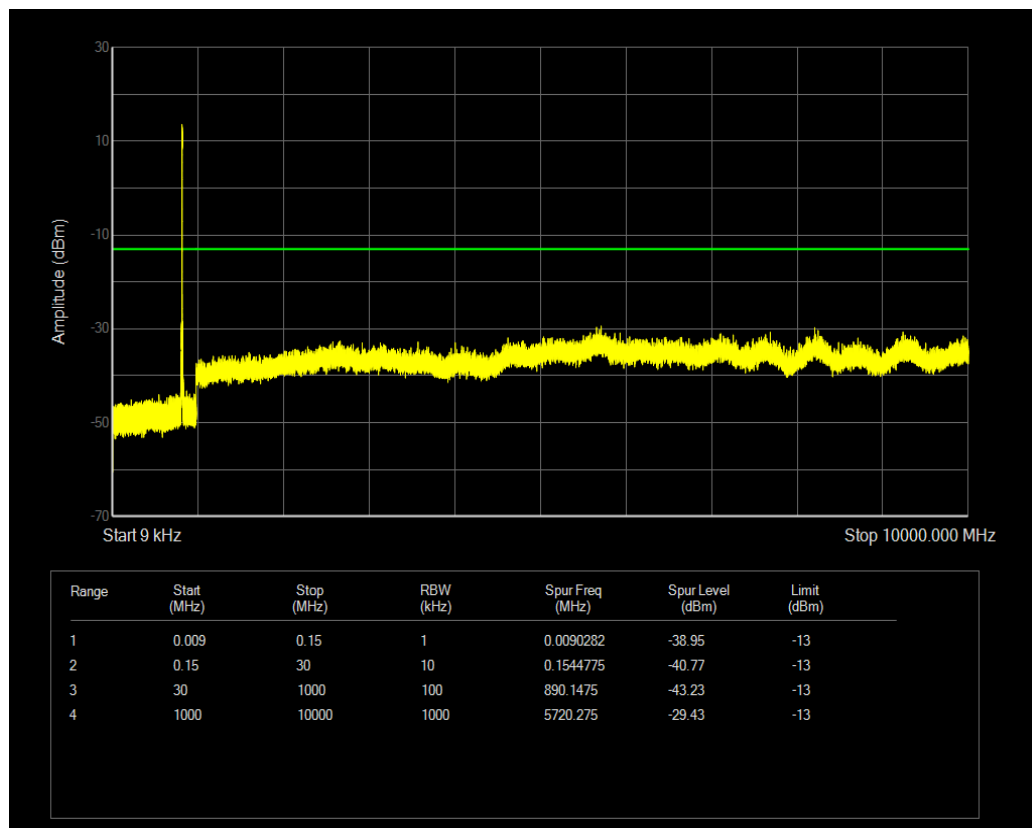
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0



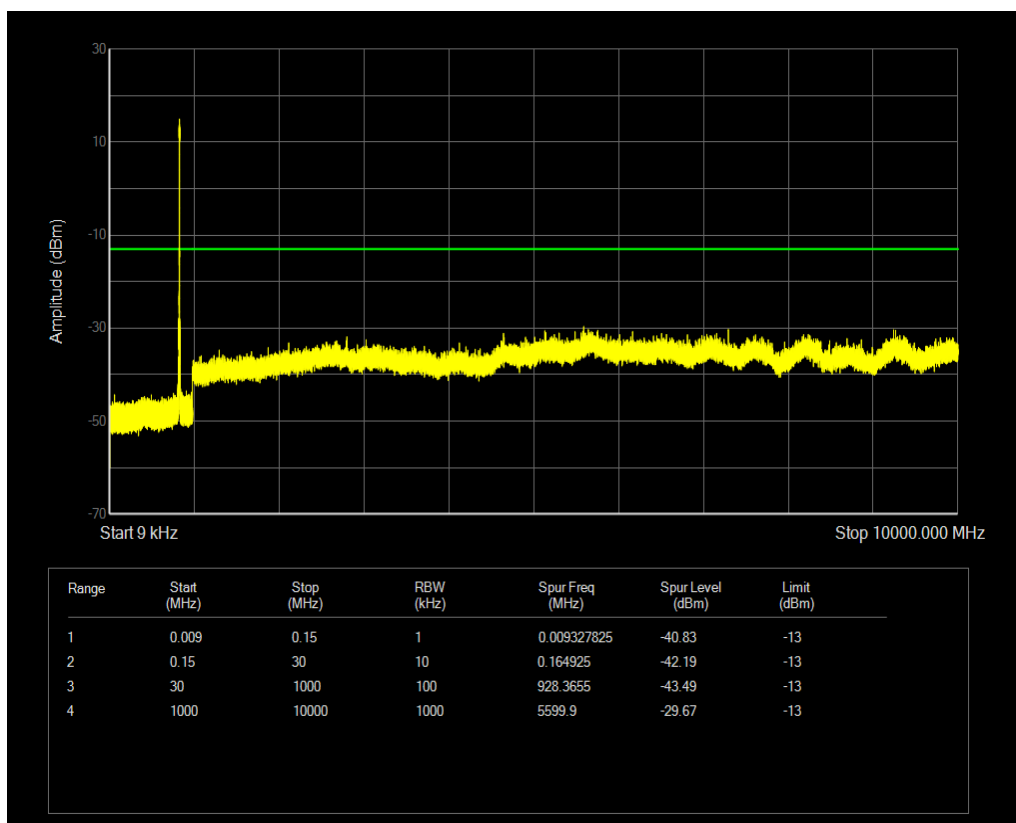
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0



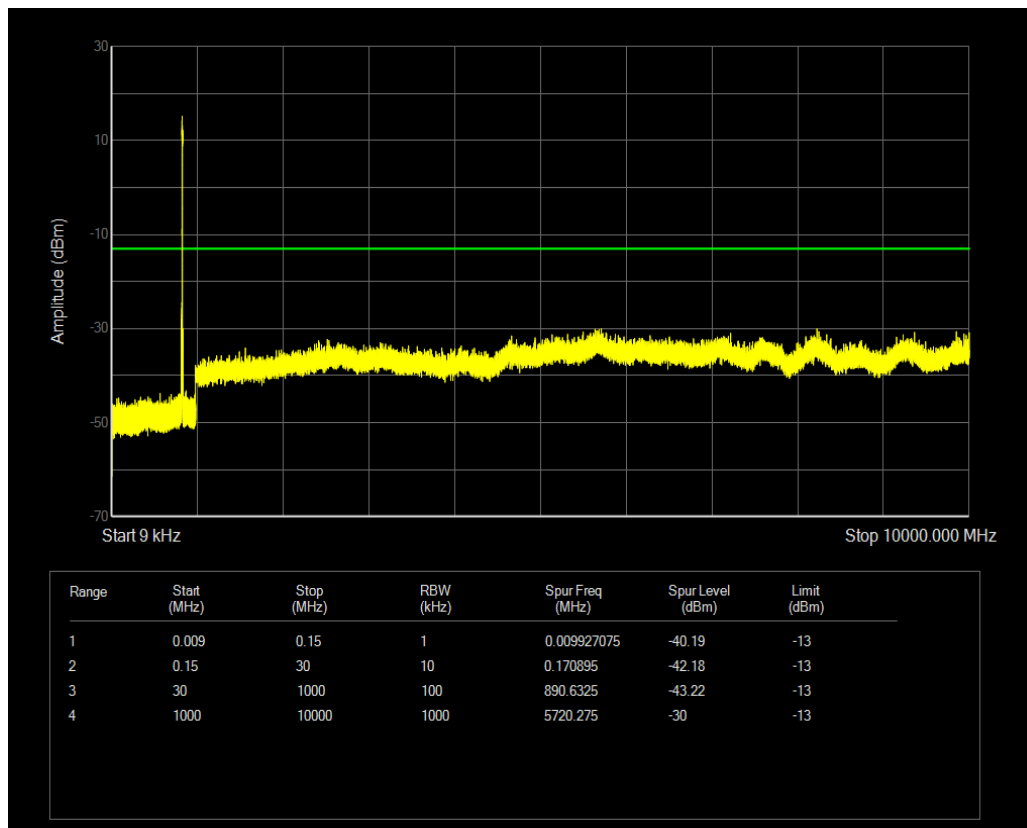
Band5 16QAM BW=5MHz Channel=20525 RB Size=25 Position=#0



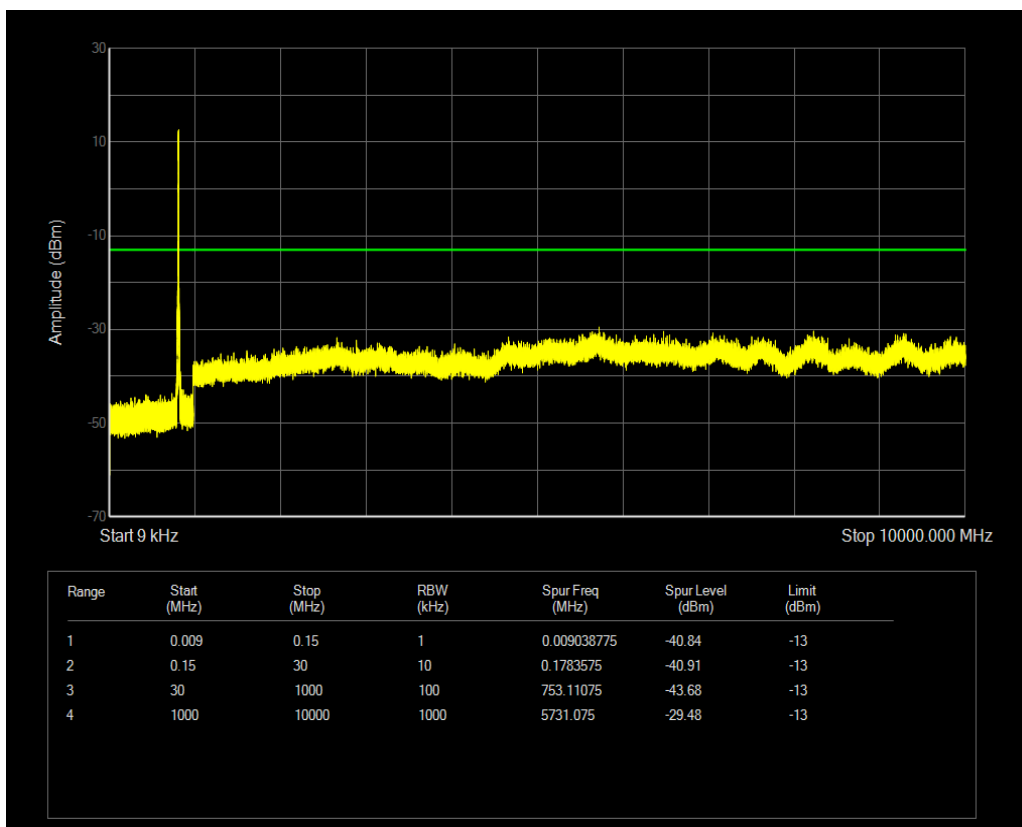
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



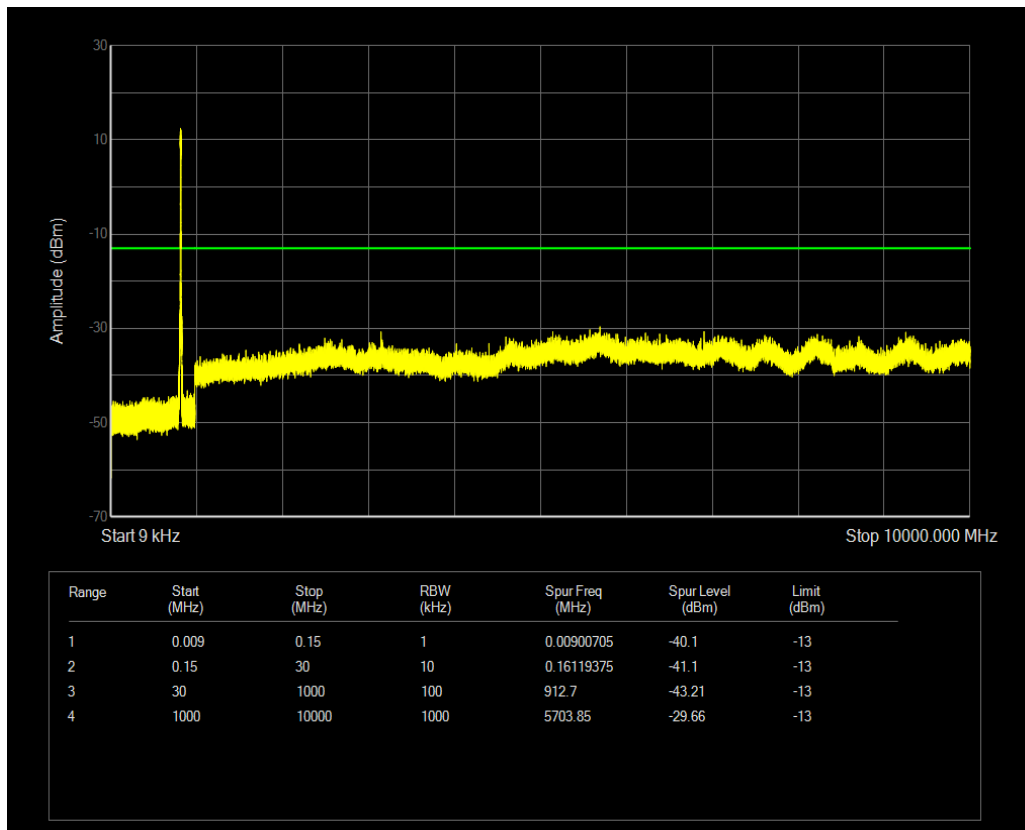
Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



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



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



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

