

Appendix for Band 13

Report No.: BCTC2501698786-2E

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Product Name: Smart PTZ Battery Camera

Test Model: S1

Tested Date: 2025-01-09 to 2025-01-15

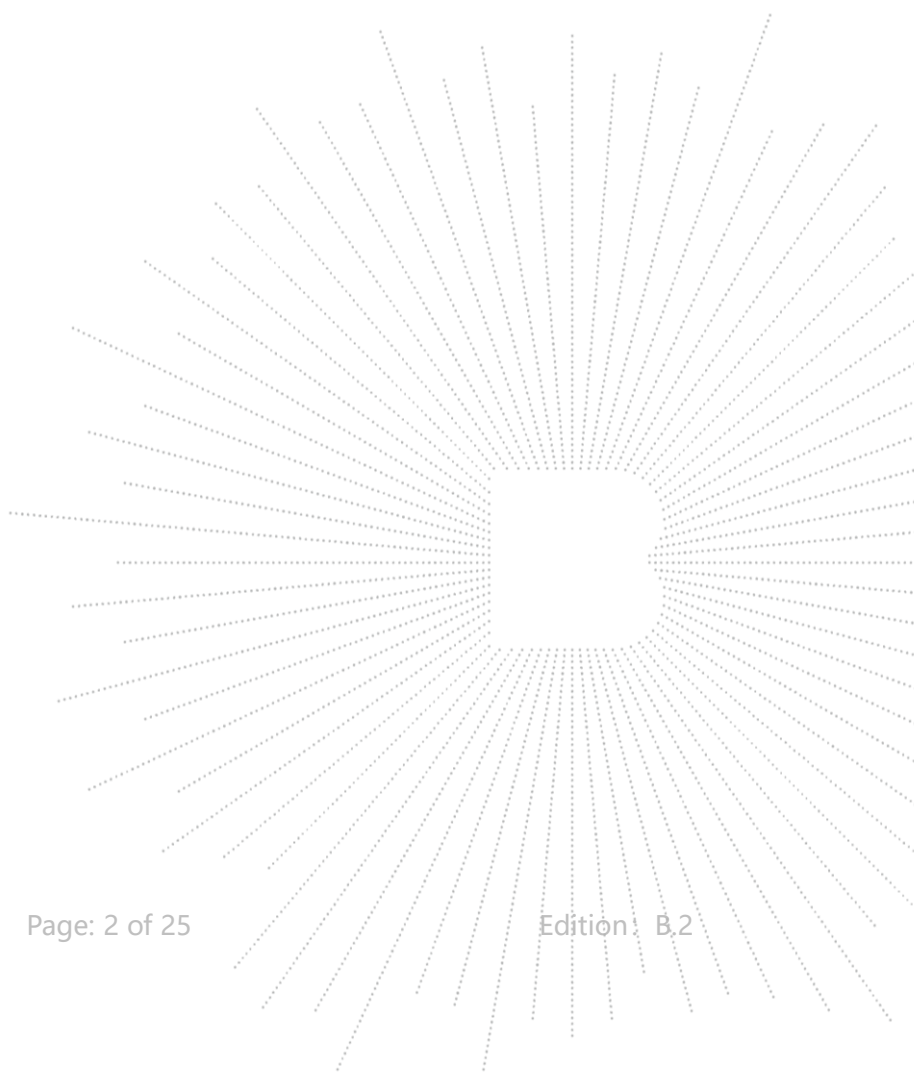
Issued Date: 2025-02-18

Shenzhen BCTC Testing Co., Ltd.



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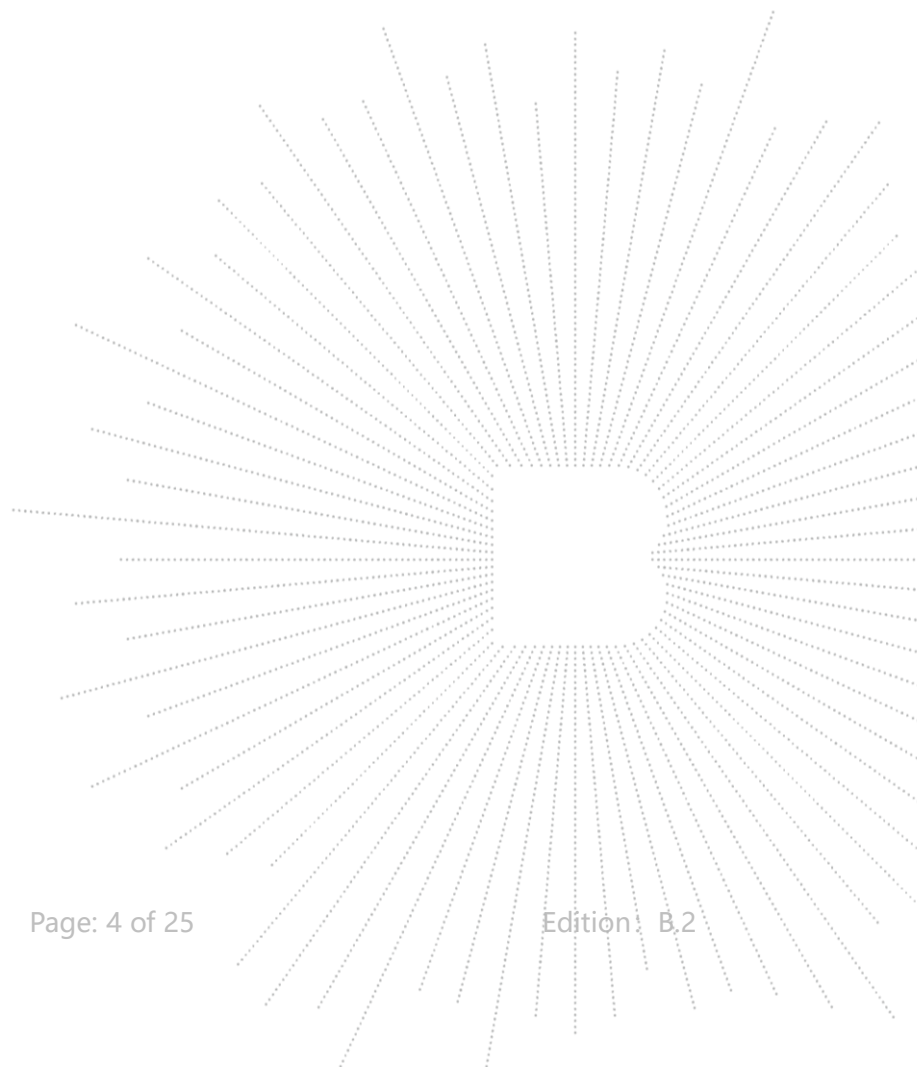
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Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band13	5	23205	1	#0	QPSK	23.04	PASS
Band13	5	23205	1	#Mid	QPSK	22.84	PASS
Band13	5	23205	1	#Max	QPSK	22.71	PASS
Band13	5	23205	12	#0	QPSK	22.07	PASS
Band13	5	23205	12	#Mid	QPSK	21.95	PASS
Band13	5	23205	12	#Max	QPSK	21.85	PASS
Band13	5	23205	25	#0	QPSK	21.99	PASS
Band13	5	23205	1	#0	16QAM	22.60	PASS
Band13	5	23205	1	#Mid	16QAM	22.45	PASS
Band13	5	23205	1	#Max	16QAM	22.34	PASS
Band13	5	23205	12	#0	16QAM	21.31	PASS
Band13	5	23205	12	#Mid	16QAM	21.19	PASS
Band13	5	23205	12	#Max	16QAM	21.08	PASS
Band13	5	23205	25	#0	16QAM	21.30	PASS
Band13	5	23230	1	#0	QPSK	22.79	PASS
Band13	5	23230	1	#Mid	QPSK	22.61	PASS
Band13	5	23230	1	#Max	QPSK	22.83	PASS
Band13	5	23230	12	#0	QPSK	21.81	PASS
Band13	5	23230	12	#Mid	QPSK	21.78	PASS
Band13	5	23230	12	#Max	QPSK	21.86	PASS
Band13	5	23230	25	#0	QPSK	21.85	PASS
Band13	5	23230	1	#0	16QAM	22.15	PASS
Band13	5	23230	1	#Mid	16QAM	22.01	PASS
Band13	5	23230	1	#Max	16QAM	22.23	PASS
Band13	5	23230	12	#0	16QAM	20.99	PASS
Band13	5	23230	12	#Mid	16QAM	20.96	PASS
Band13	5	23230	12	#Max	16QAM	21.04	PASS
Band13	5	23230	25	#0	16QAM	21.05	PASS
Band13	5	23255	1	#0	QPSK	22.94	PASS
Band13	5	23255	1	#Mid	QPSK	23.11	PASS
Band13	5	23255	1	#Max	QPSK	23.30	PASS
Band13	5	23255	12	#0	QPSK	22.04	PASS
Band13	5	23255	12	#Mid	QPSK	22.15	PASS
Band13	5	23255	12	#Max	QPSK	22.21	PASS
Band13	5	23255	25	#0	QPSK	22.16	PASS
Band13	5	23255	1	#0	16QAM	22.58	PASS
Band13	5	23255	1	#Mid	16QAM	22.81	PASS
Band13	5	23255	1	#Max	16QAM	23.00	PASS
Band13	5	23255	12	#0	16QAM	21.25	PASS
Band13	5	23255	12	#Mid	16QAM	21.37	PASS

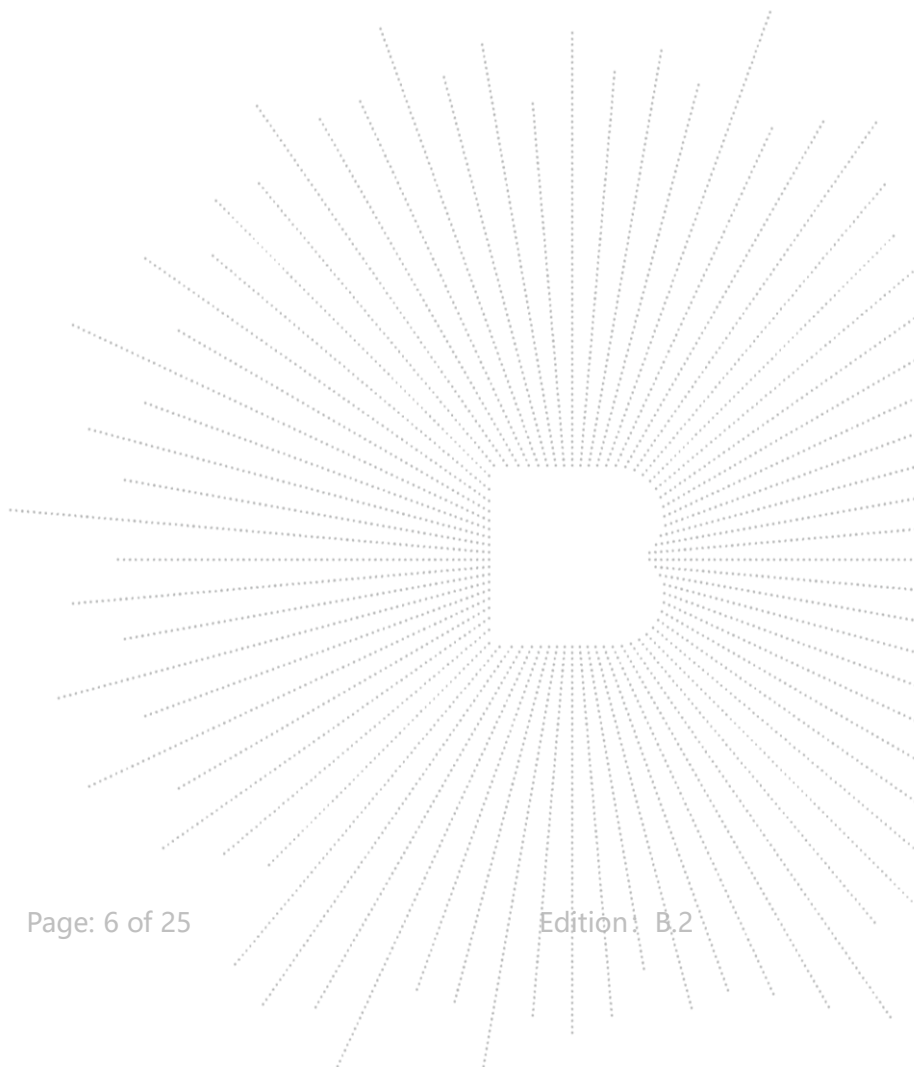
Band13	5	23255	12	#Max	16QAM	21.45	PASS
Band13	5	23255	25	#0	16QAM	21.36	PASS
Band13	10	23230	1	#0	QPSK	23.60	PASS
Band13	10	23230	1	#Mid	QPSK	23.29	PASS
Band13	10	23230	1	#Max	QPSK	23.65	PASS
Band13	10	23230	25	#0	QPSK	22.50	PASS
Band13	10	23230	25	#Mid	QPSK	22.35	PASS
Band13	10	23230	25	#Max	QPSK	22.47	PASS
Band13	10	23230	50	#0	QPSK	22.44	PASS
Band13	10	23230	1	#0	16QAM	23.57	PASS
Band13	10	23230	1	#Mid	16QAM	23.19	PASS
Band13	10	23230	1	#Max	16QAM	22.01	PASS
Band13	10	23230	25	#0	16QAM	22.06	PASS
Band13	10	23230	25	#Mid	16QAM	22.02	PASS
Band13	10	23230	25	#Max	16QAM	22.04	PASS
Band13	10	23230	50	#0	16QAM	22.08	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 13	5	23205	25	#0	QPSK	LV	NT	0.34	0.000	-2.5	2.5	PASS
Band 13	5	23205	25	#0	QPSK	NV	NT	-0.62	-0.001	-2.5	2.5	PASS
Band 13	5	23205	25	#0	QPSK	HV	NT	0.10	0.000	-2.5	2.5	PASS
Band 13	5	23205	25	#0	16QAM	LV	NT	-0.46	-0.001	-2.5	2.5	PASS
Band 13	5	23205	25	#0	16QAM	NV	NT	-0.06	0.000	-2.5	2.5	PASS
Band 13	5	23205	25	#0	16QAM	HV	NT	-0.09	0.000	-2.5	2.5	PASS
Band 13	5	23230	25	#0	QPSK	LV	NT	-0.89	-0.001	-2.5	2.5	PASS
Band 13	5	23230	25	#0	QPSK	NV	NT	0.13	0.000	-2.5	2.5	PASS
Band 13	5	23230	25	#0	QPSK	HV	NT	-0.27	0.000	-2.5	2.5	PASS
Band 13	5	23230	25	#0	16QAM	LV	NT	0.29	0.000	-2.5	2.5	PASS
Band 13	5	23230	25	#0	16QAM	NV	NT	-0.43	-0.001	-2.5	2.5	PASS
Band 13	5	23230	25	#0	16QAM	HV	NT	-0.57	-0.001	-2.5	2.5	PASS
Band 13	5	23255	25	#0	QPSK	LV	NT	0.33	0.000	-2.5	2.5	PASS
Band 13	5	23255	25	#0	QPSK	NV	NT	-0.51	-0.001	-2.5	2.5	PASS
Band 13	5	23255	25	#0	QPSK	HV	NT	0.31	0.000	-2.5	2.5	PASS
Band 13	5	23255	25	#0	16QAM	LV	NT	0.04	0.000	-2.5	2.5	PASS
Band 13	5	23255	25	#0	16QAM	NV	NT	0.13	0.000	-2.5	2.5	PASS
Band 13	5	23255	25	#0	16QAM	HV	NT	-0.92	-0.001	-2.5	2.5	PASS

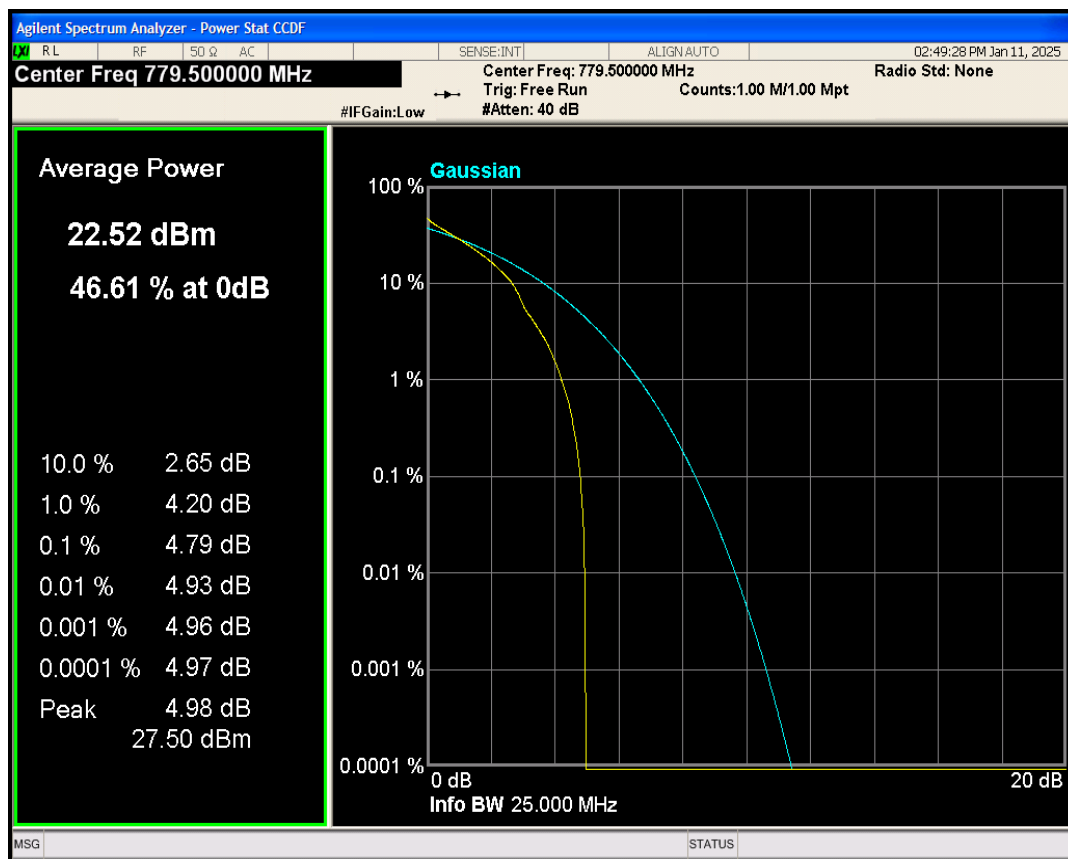
Band 13	10	23230	50	#0	QPSK	LV	NT	-0.2 9	0.00 0	-2.5	2.5	PAS S
Band 13	10	23230	50	#0	QPSK	NV	NT	-0.7 2	-0.0 01	-2.5	2.5	PAS S
Band 13	10	23230	50	#0	QPSK	HV	NT	-0.6 9	-0.0 01	-2.5	2.5	PAS S
Band 13	10	23230	50	#0	16QAM	LV	NT	-3.7 8	-0.0 05	-2.5	2.5	PAS S
Band 13	10	23230	50	#0	16QAM	NV	NT	-3.2 9	-0.0 04	-2.5	2.5	PAS S
Band 13	10	23230	50	#0	16QAM	HV	NT	-2.9 8	-0.0 04	-2.5	2.5	PAS S



Appendix 3. Peak-to-Average Ratio

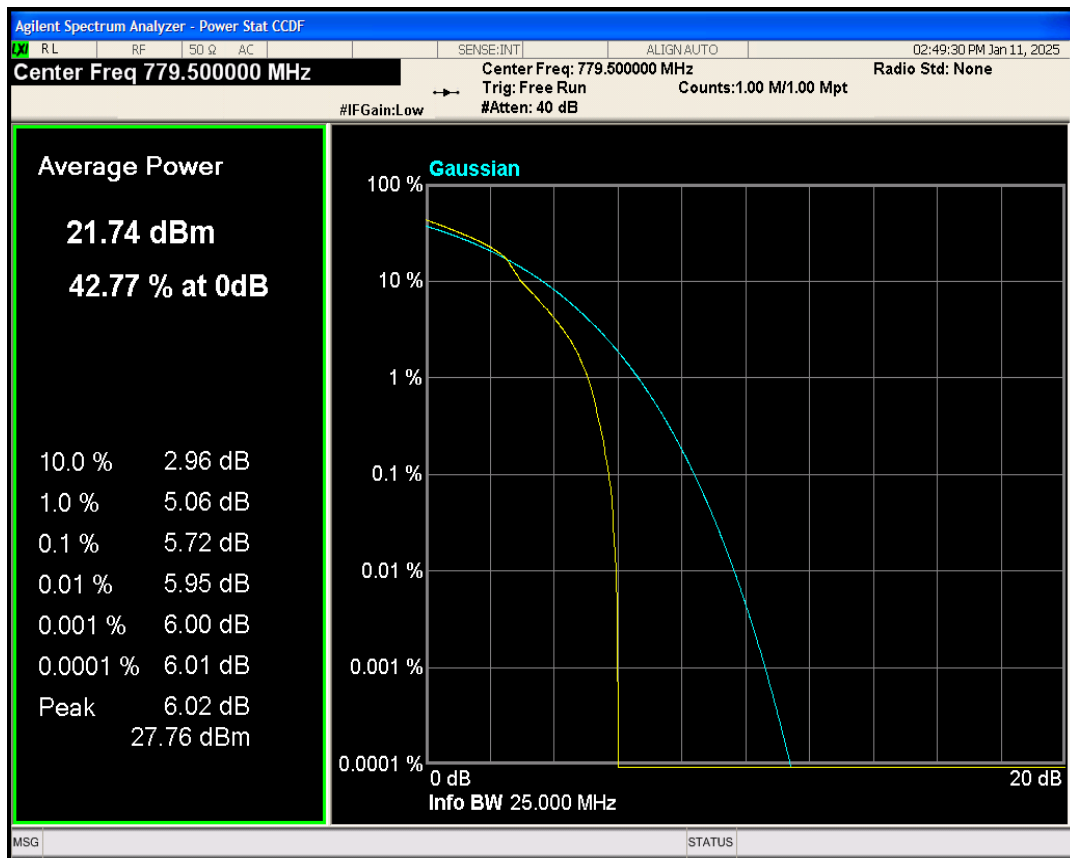
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band13	5	23205	1	#0	QPSK	4.79	13	PASS
Band13	5	23205	1	#0	16QAM	5.72	13	PASS
Band13	5	23230	1	#0	QPSK	5.40	13	PASS
Band13	5	23230	1	#0	16QAM	6.44	13	PASS
Band13	5	23255	1	#0	QPSK	6.17	13	PASS
Band13	5	23255	1	#0	16QAM	6.39	13	PASS
Band13	10	23230	1	#0	QPSK	4.96	13	PASS
Band13	10	23230	1	#0	16QAM	4.82	13	PASS

Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#0

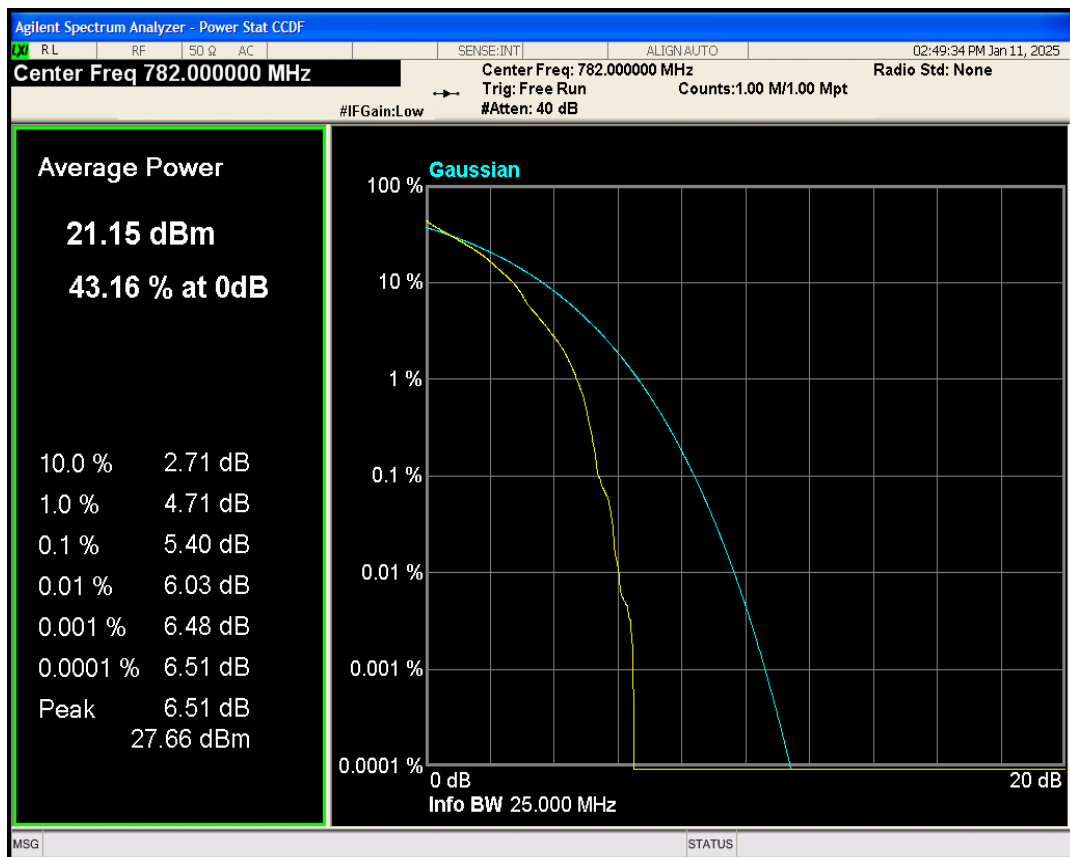




Band13 16QAM BW=5MHz Channel=23205 RB Size=1 Position=#0

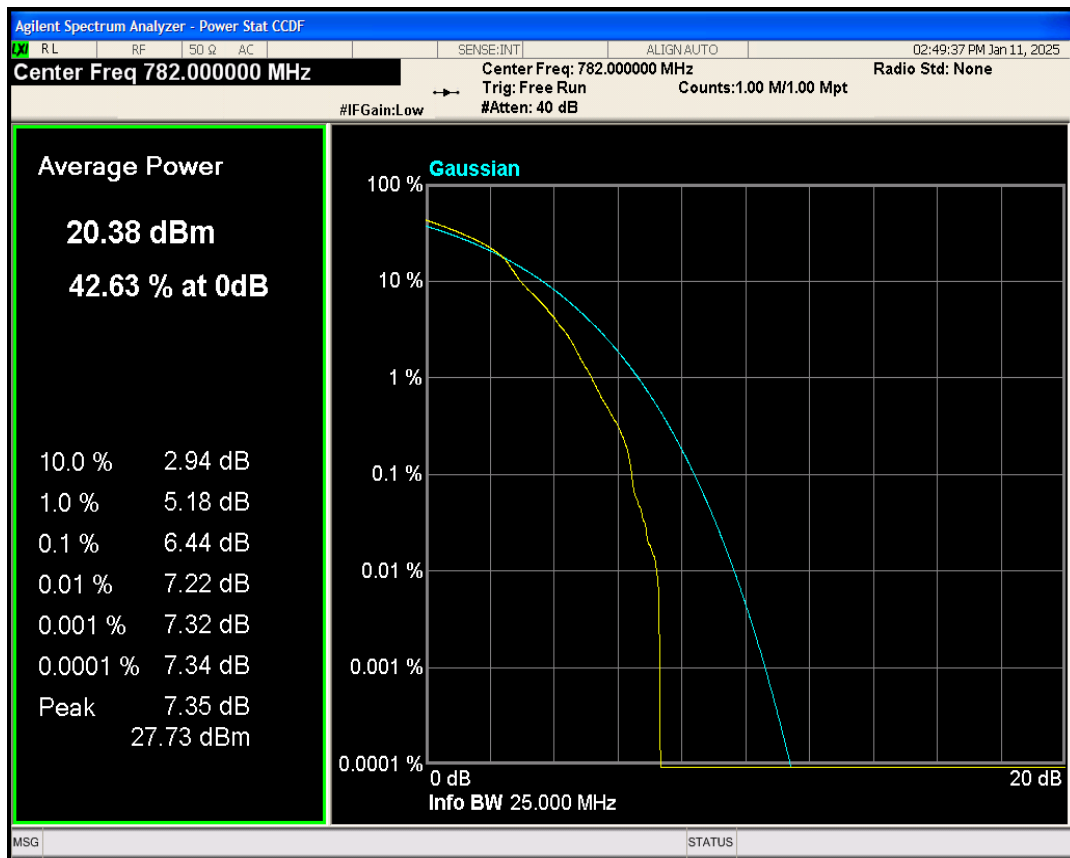


Band13 QPSK BW=5MHz Channel=23230 RB Size=1 Position=#0

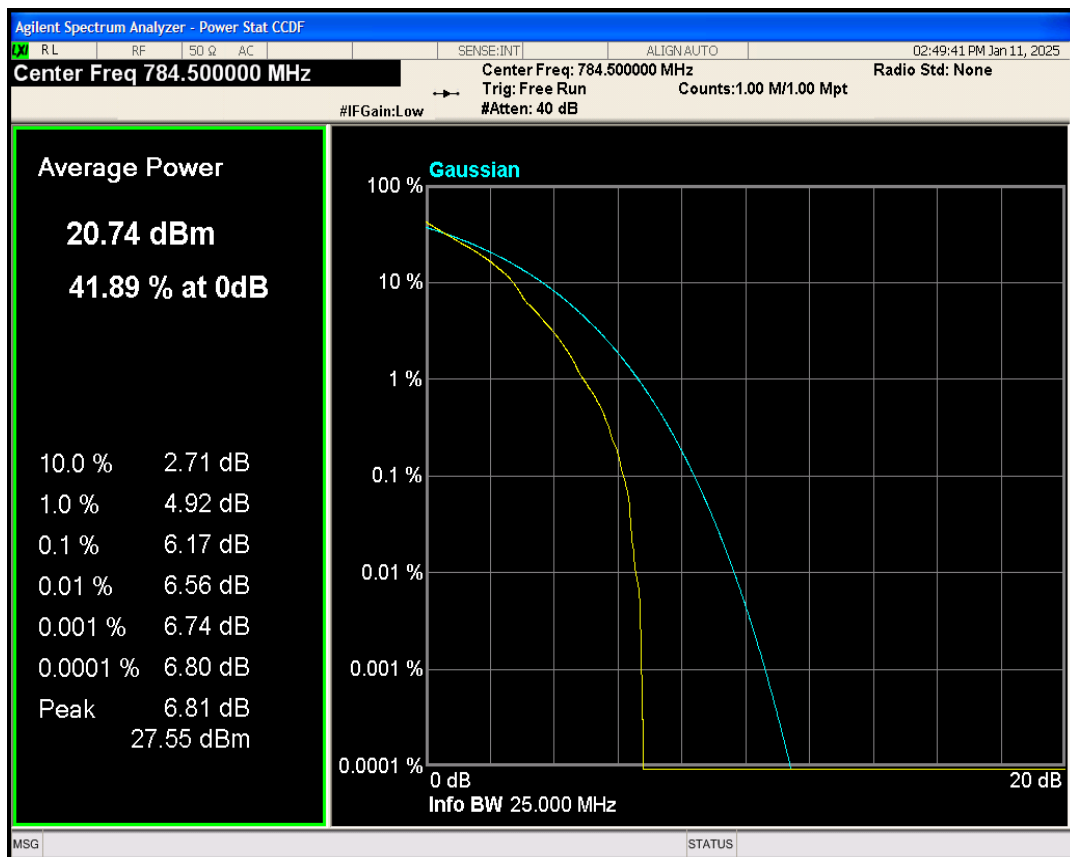




Band13 16QAM BW=5MHz Channel=23230 RB Size=1 Position=#0

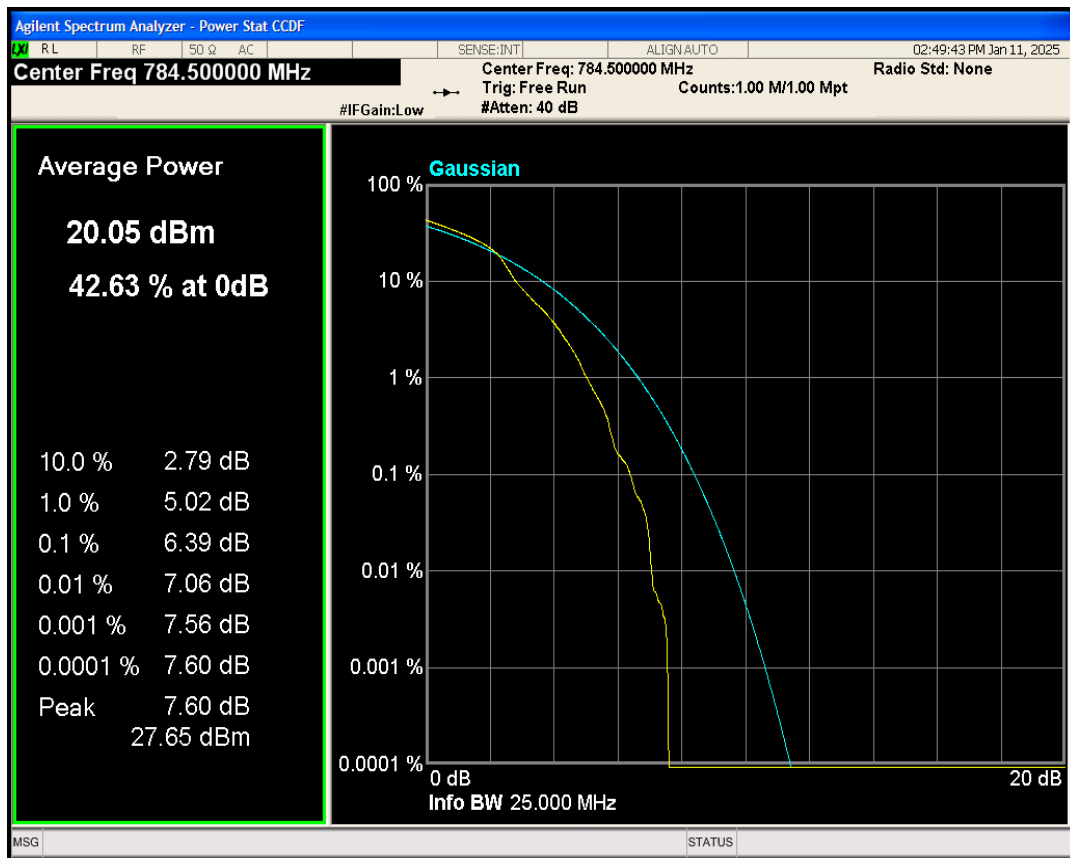


Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#0

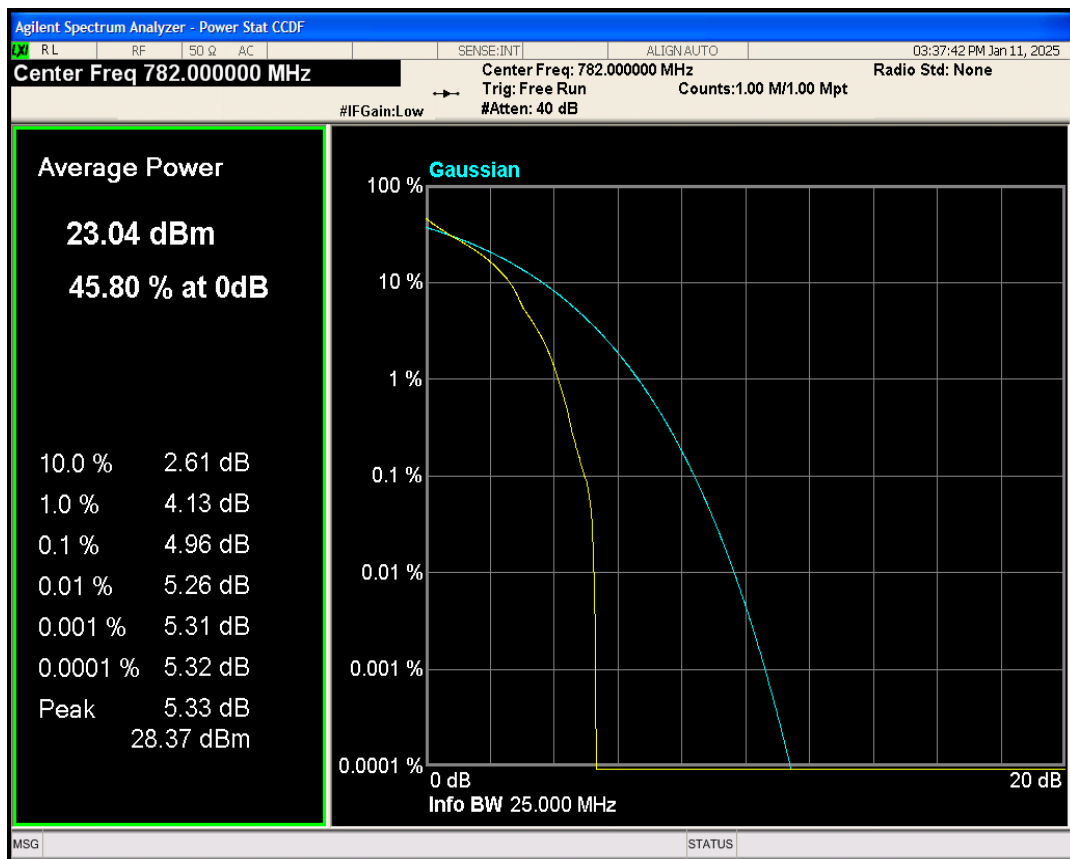




Band13 16QAM BW=5MHz Channel=23255 RB Size=1 Position=#0

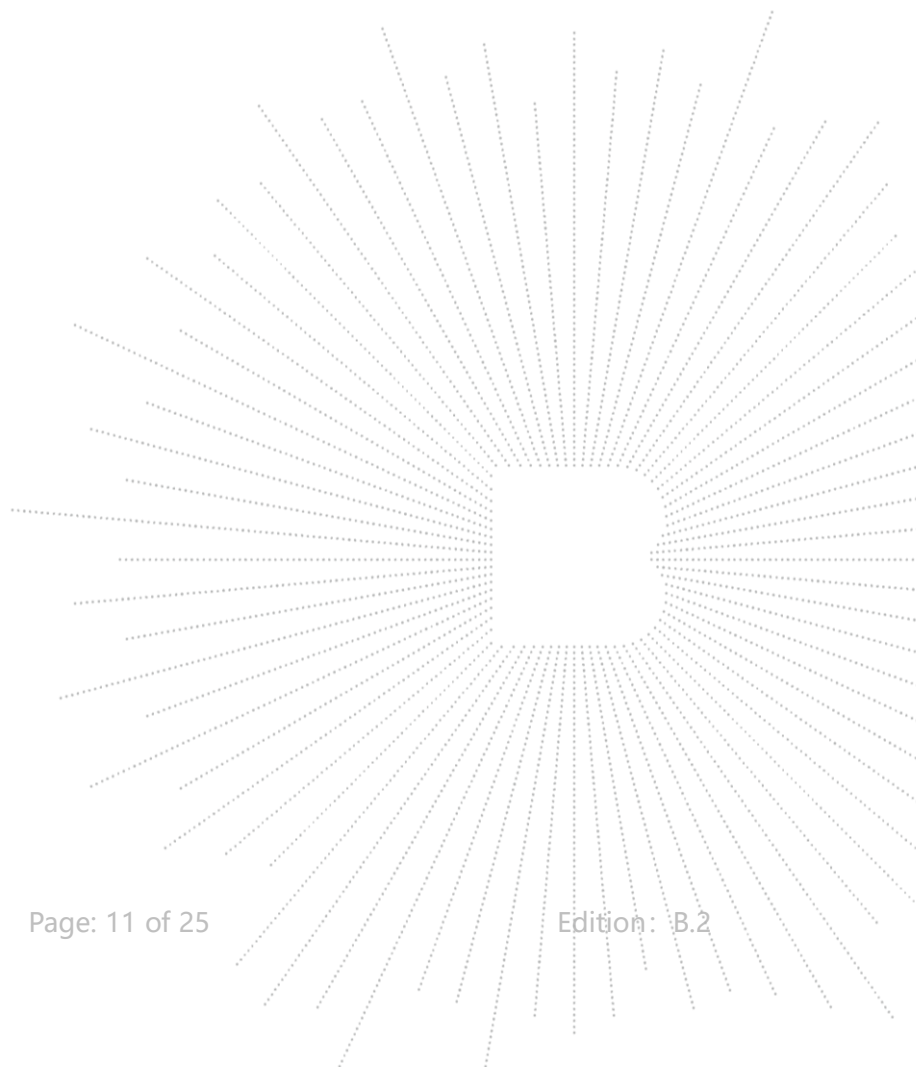
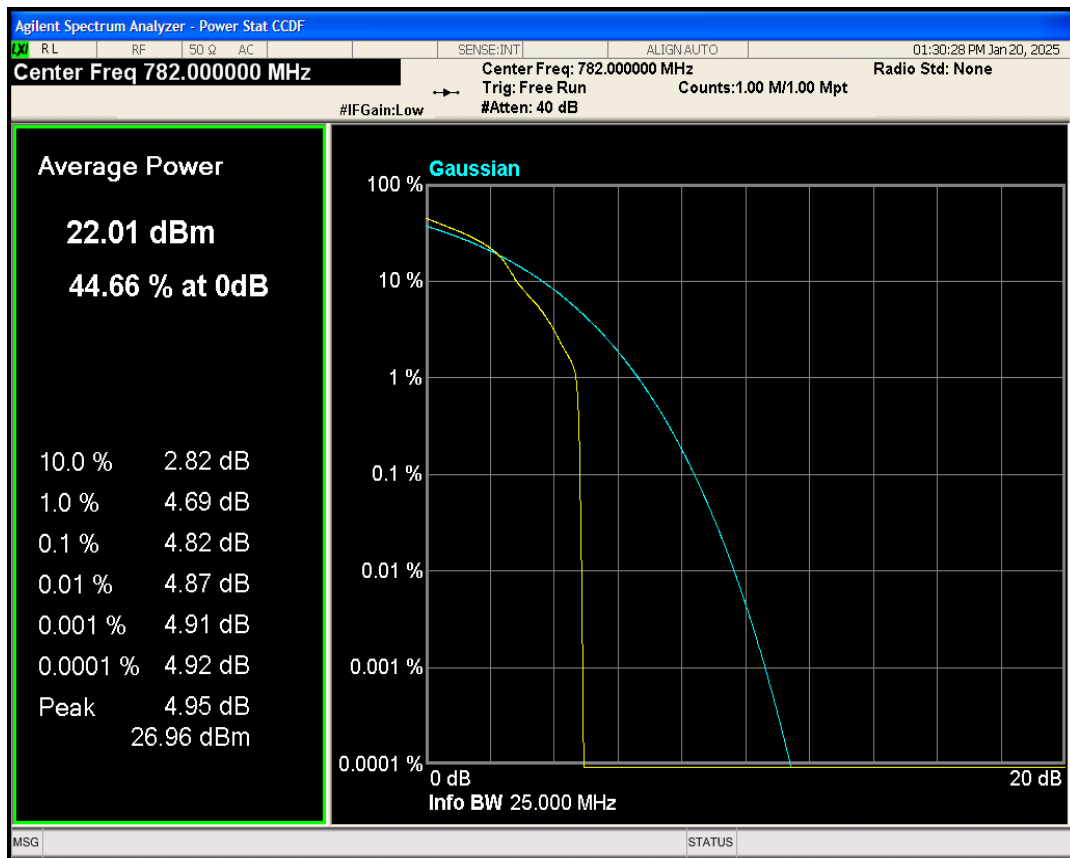


Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0





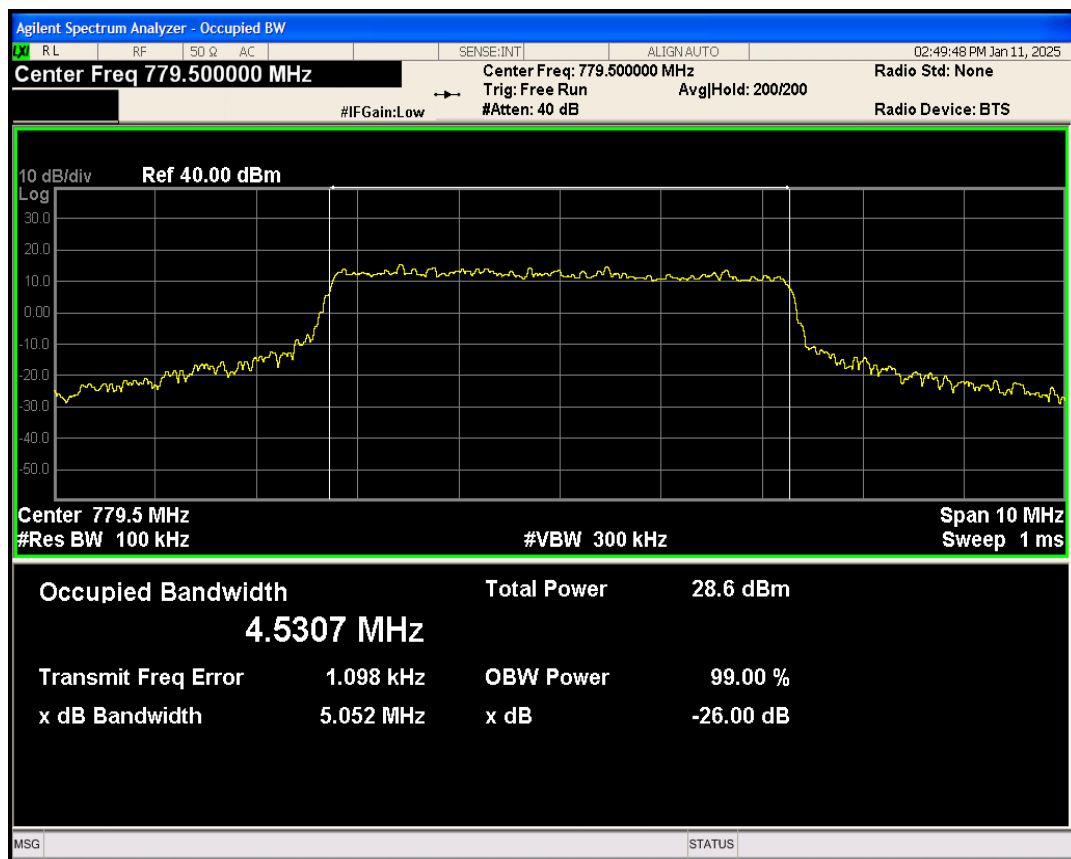
Band13 16QAM BW=10MHz Channel=23230 RB Size=1 Position=#0



Appendix 4. Occupied bandwidth

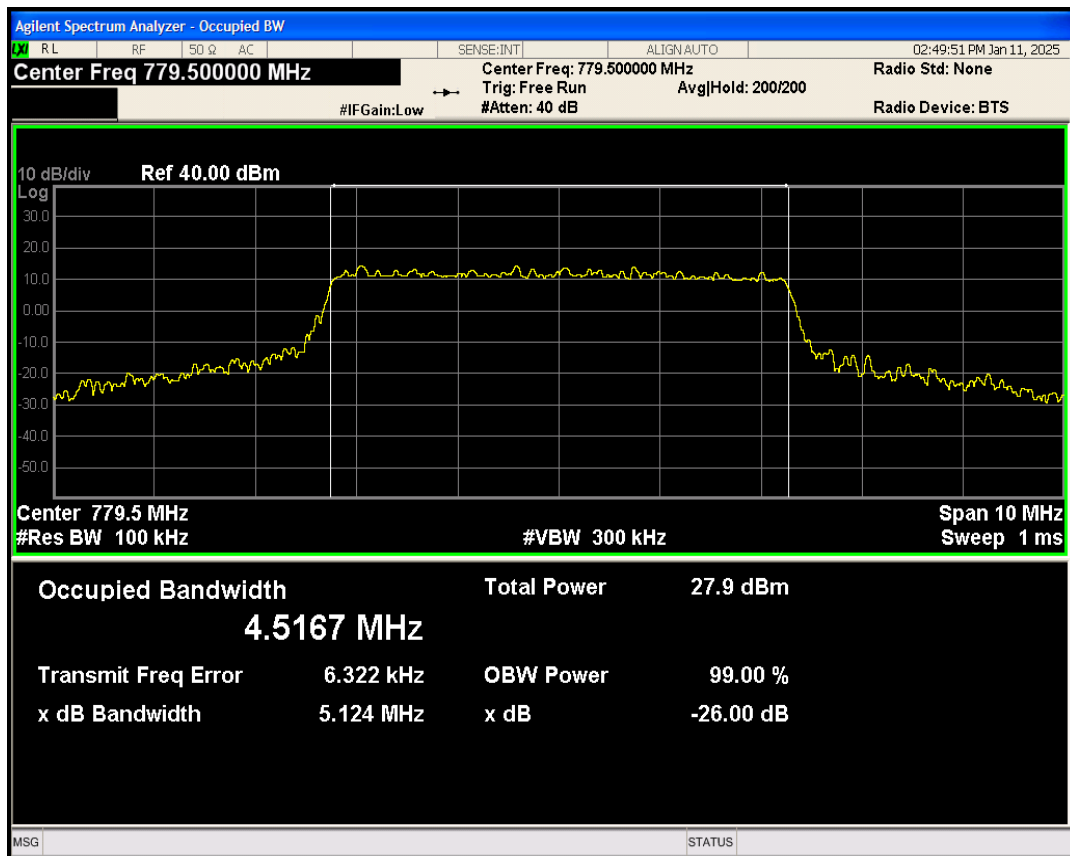
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band13	5	23205	25	#0	QPSK	4.531	5.052	PASS
Band13	5	23205	25	#0	16QAM	4.517	5.124	PASS
Band13	5	23230	25	#0	QPSK	4.546	5.431	PASS
Band13	5	23230	25	#0	16QAM	4.524	5.291	PASS
Band13	5	23255	25	#0	QPSK	4.533	4.942	PASS
Band13	5	23255	25	#0	16QAM	4.514	5.226	PASS
Band13	10	23230	50	#0	QPSK	9.032	10.101	PASS
Band13	10	23230	50	#0	16QAM	8.952	9.786	PASS

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0

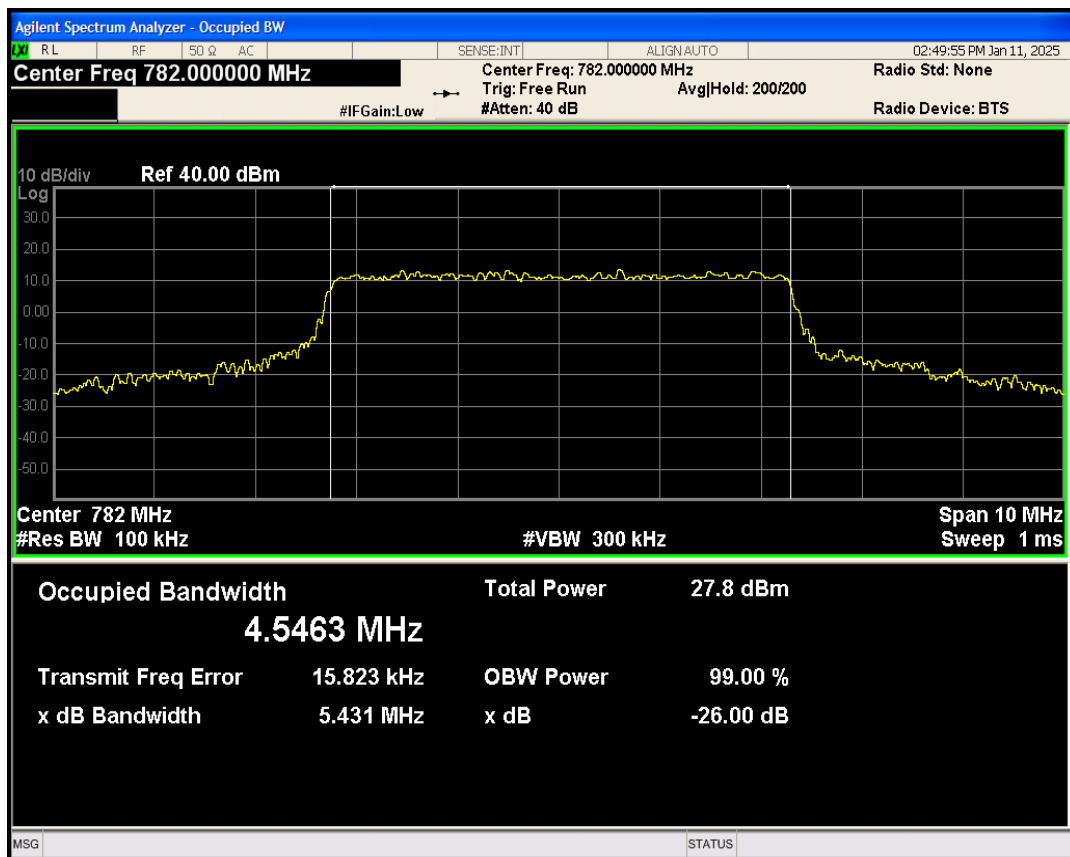




Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0

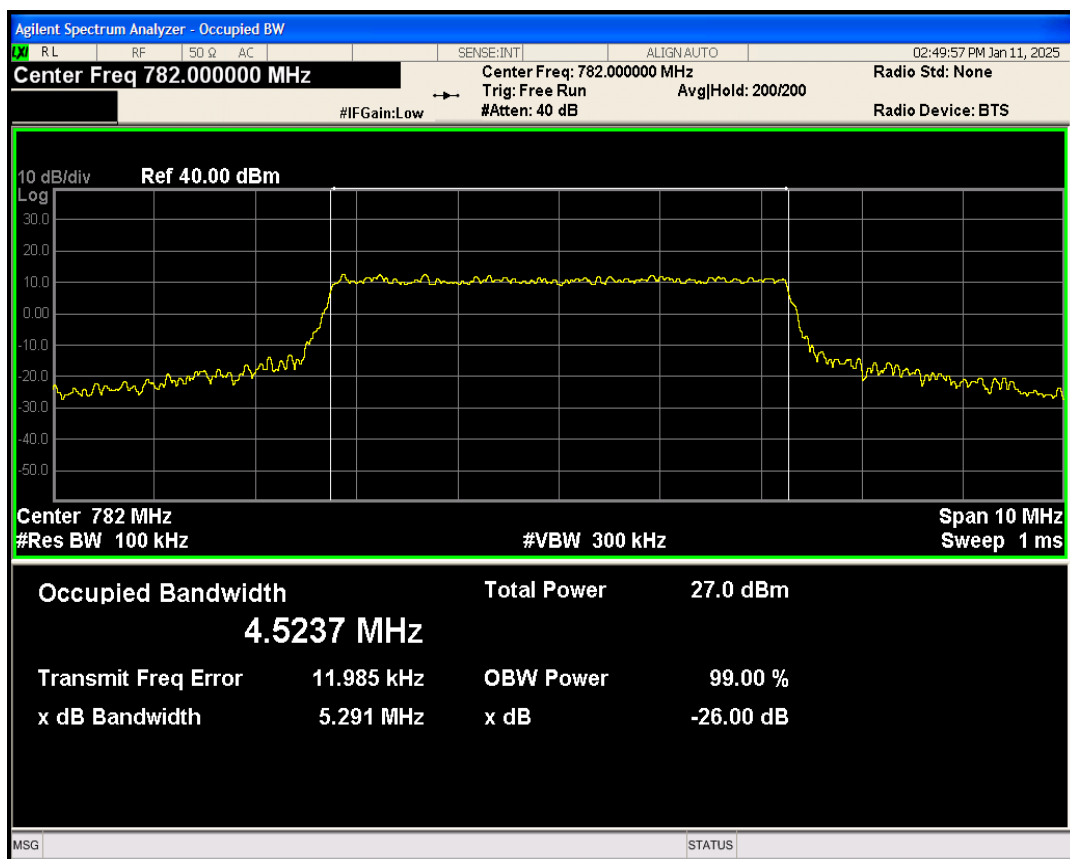


Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0

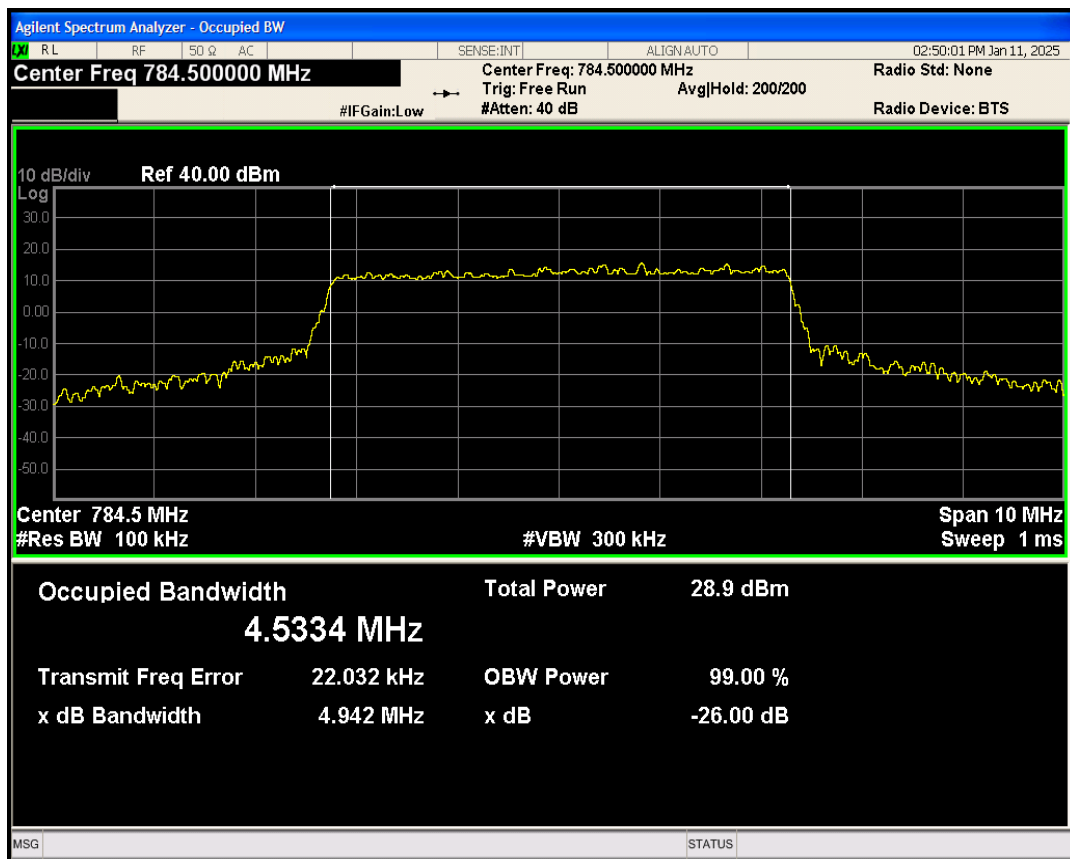




Band13 16QAM BW=5MHz Channel=23230 RB Size=25 Position=#0

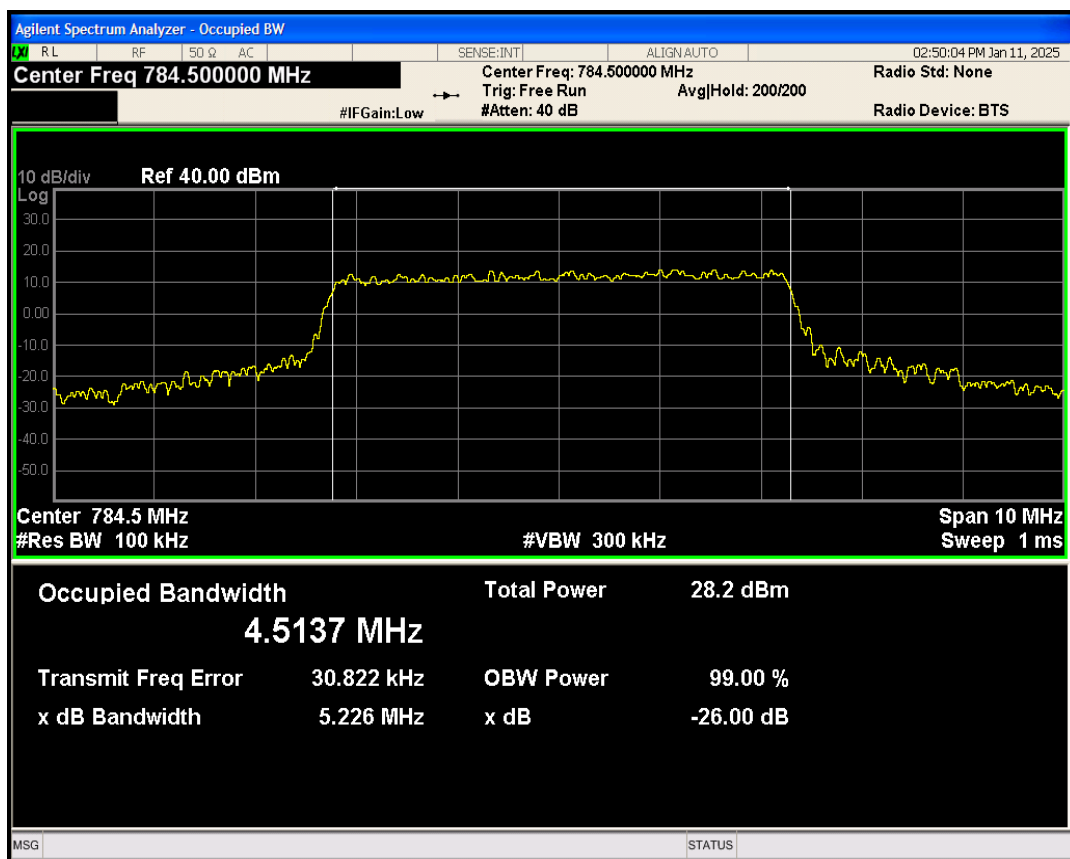


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

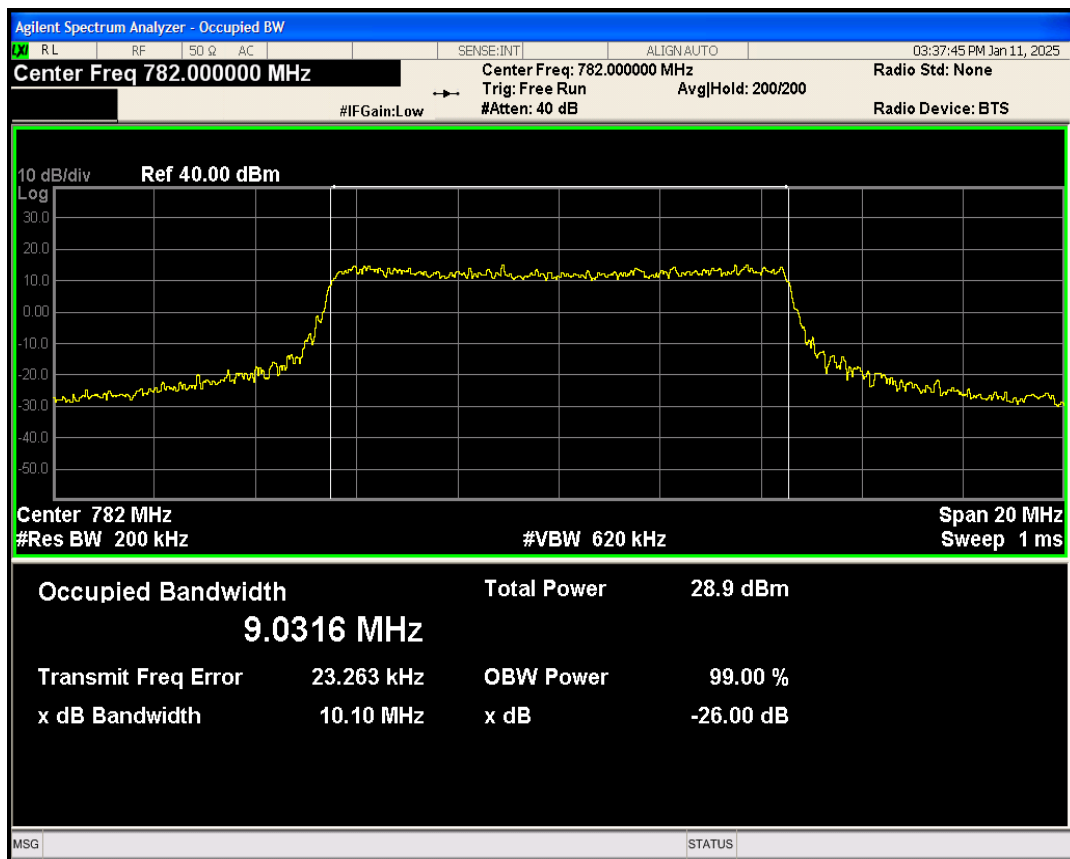




Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0

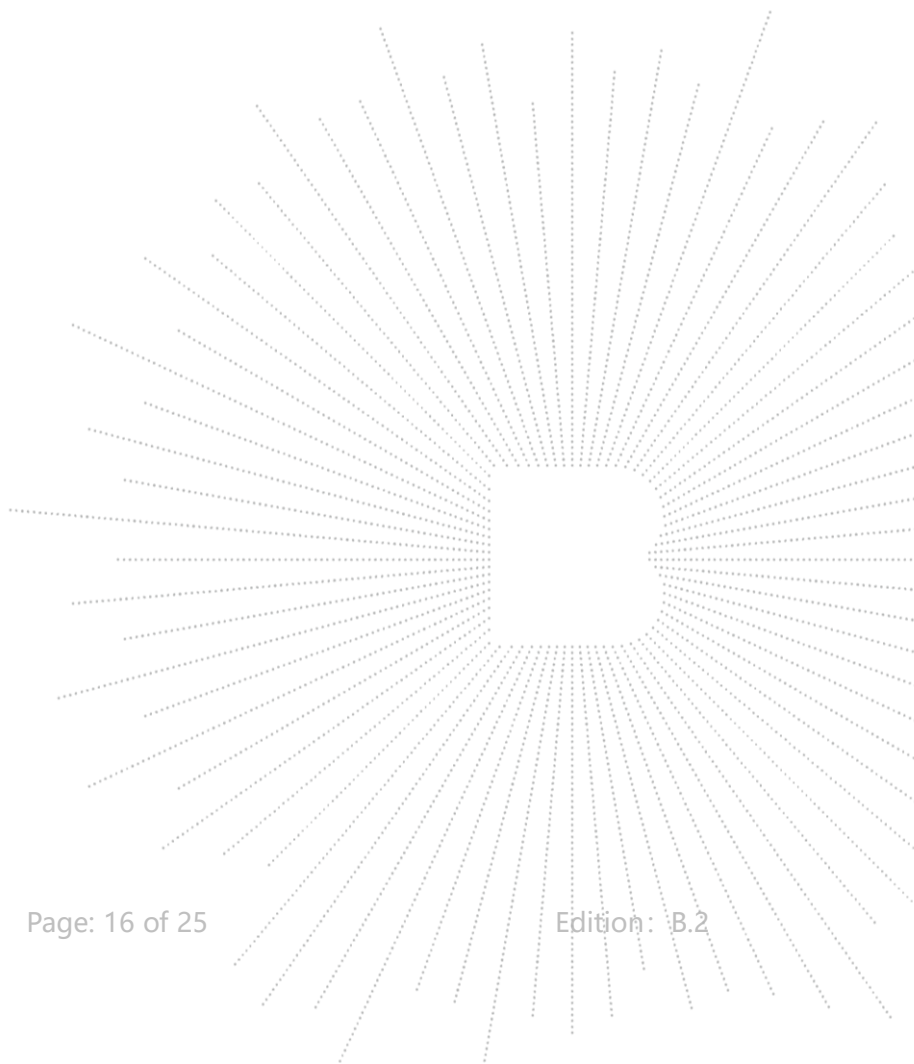
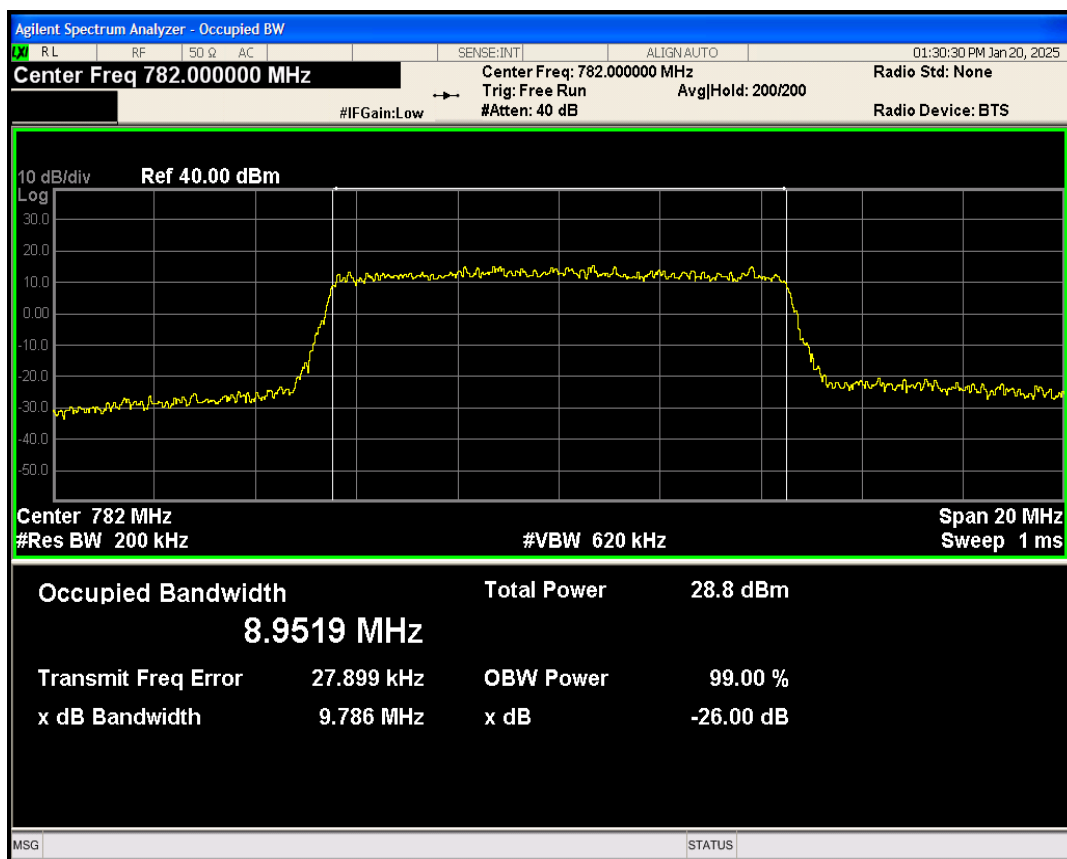


Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0





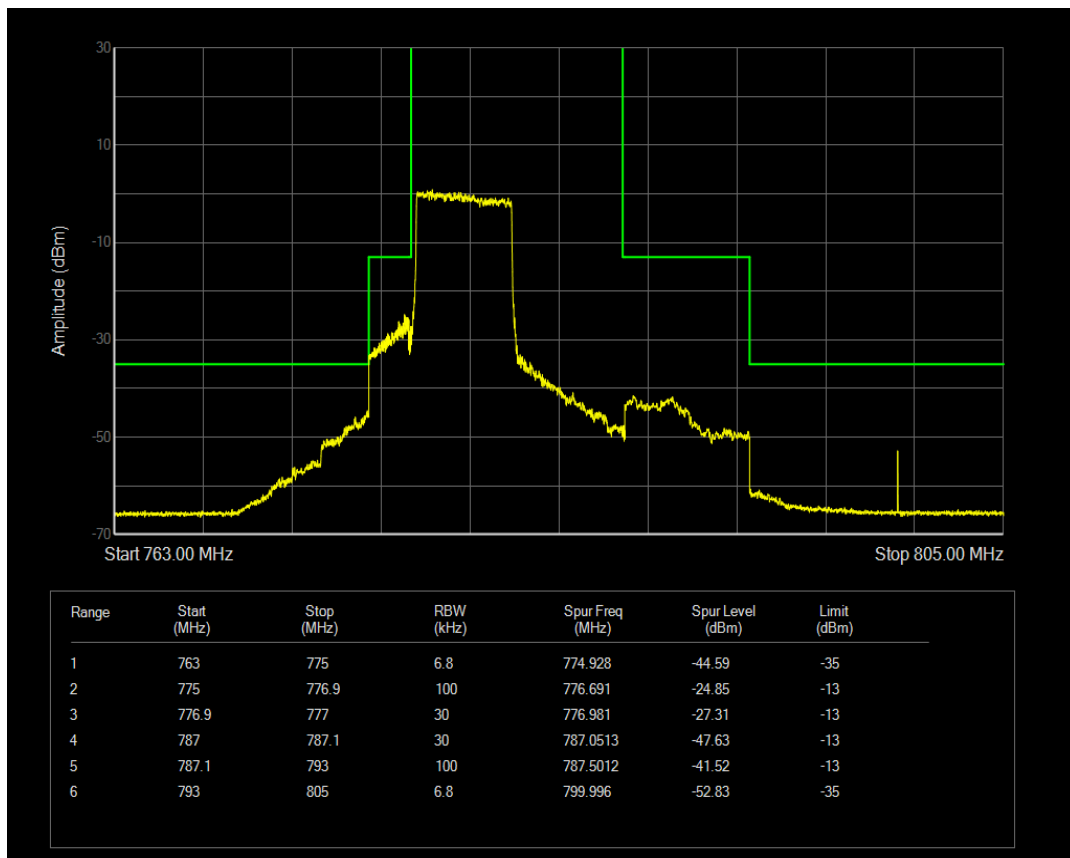
Band13 16QAM BW=10MHz Channel=23230 RB Size=50 Position=#0



Appendix 5. Band edge

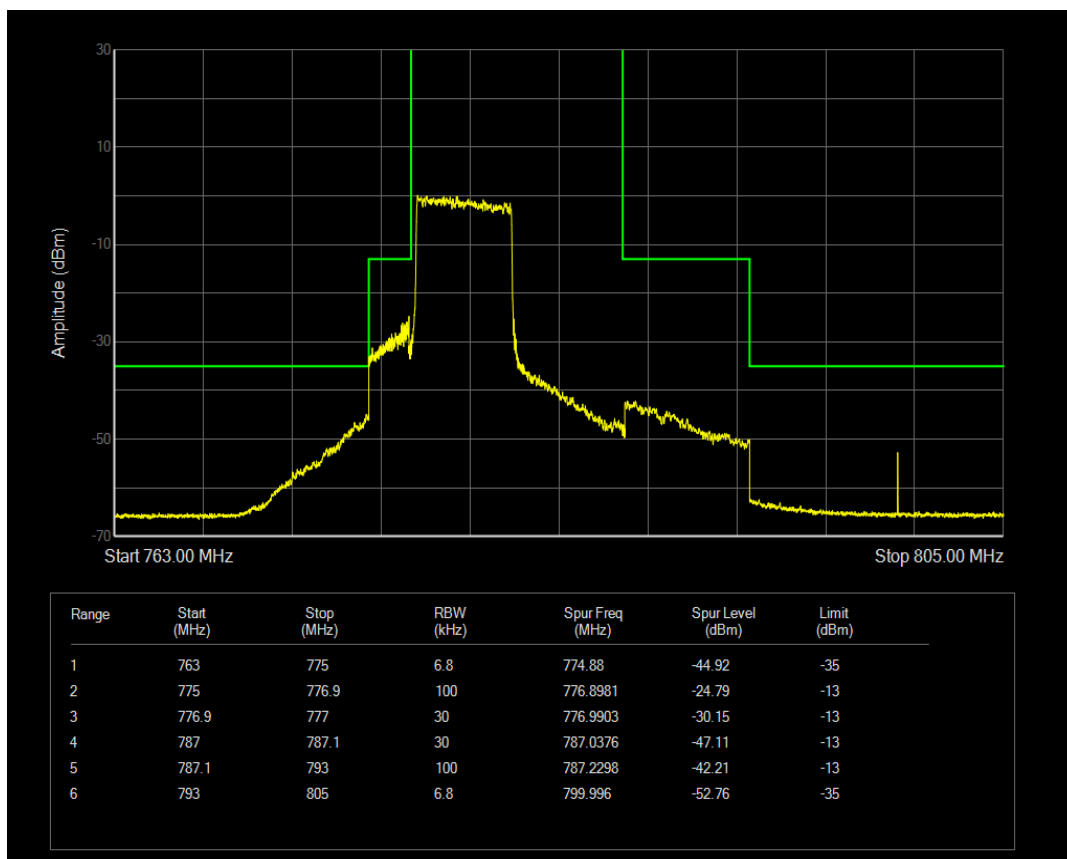
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	25	#0	QPSK	774.93	-44.59	-35	PASS
Band13	5	23205	25	#0	16QAM	774.88	-44.92	-35	PASS
Band13	5	23255	25	#0	QPSK	787.14	-25.47	-13	PASS
Band13	5	23255	25	#0	16QAM	787.14	-26.74	-13	PASS
Band13	10	23230	50	#0	QPSK	774.96	-45.59	-35	PASS
Band13	10	23230	50	#0	16QAM	800.00	-46.79	-35	PASS

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0

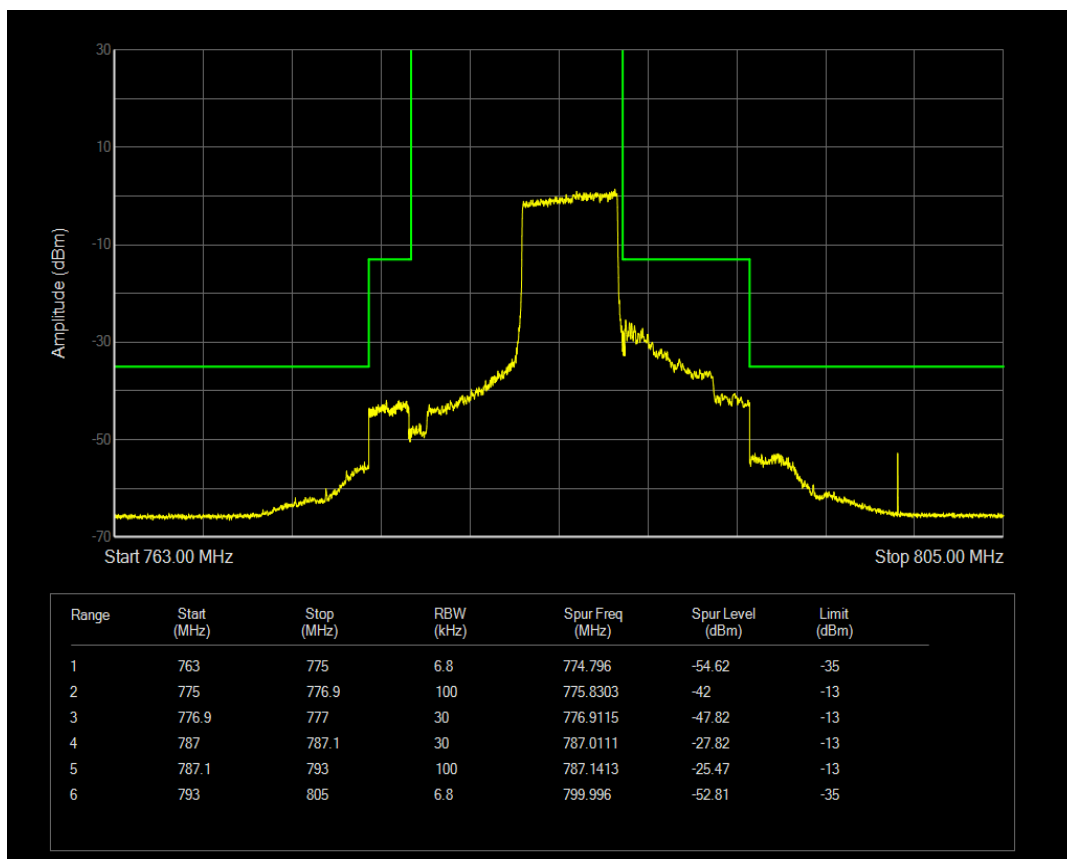




Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0

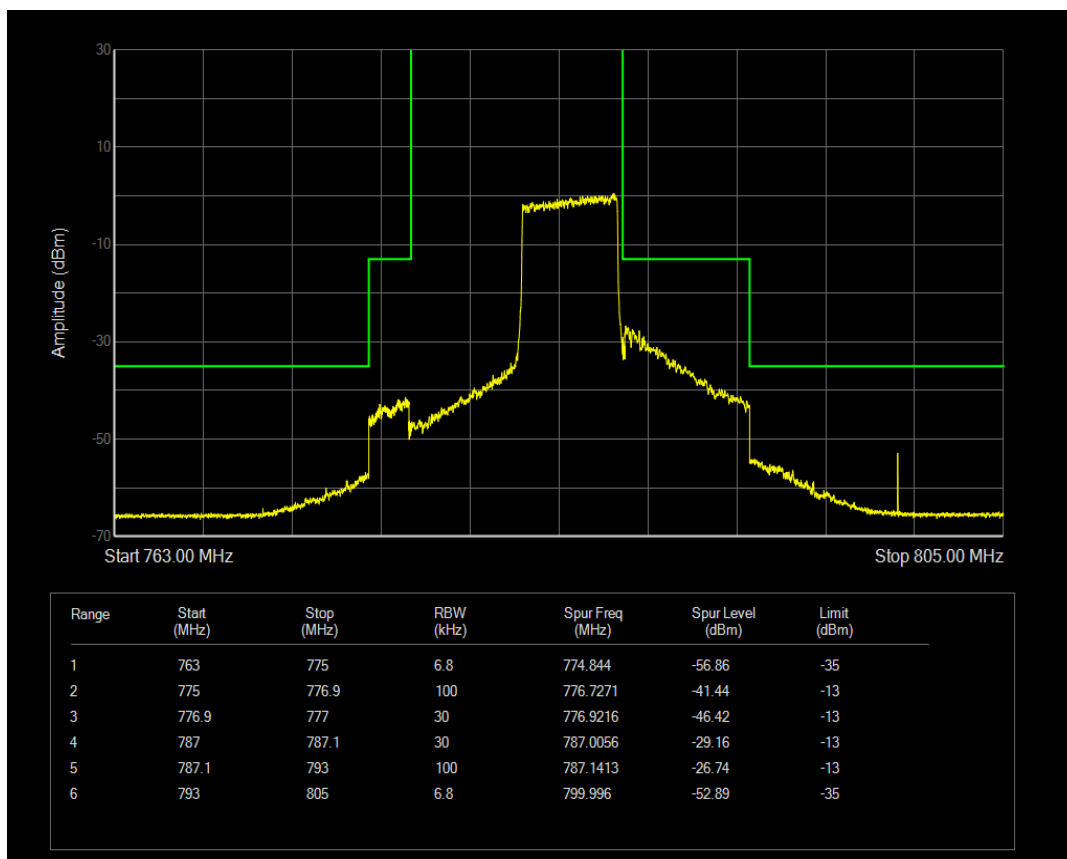


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

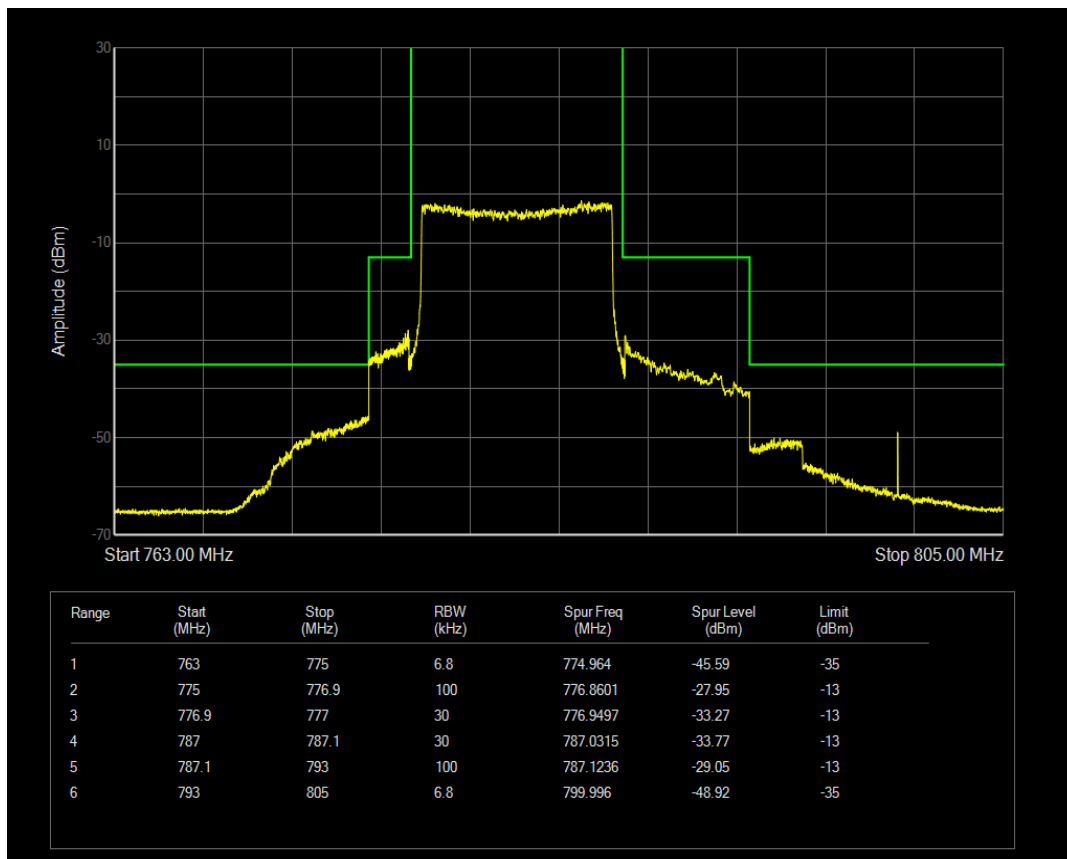




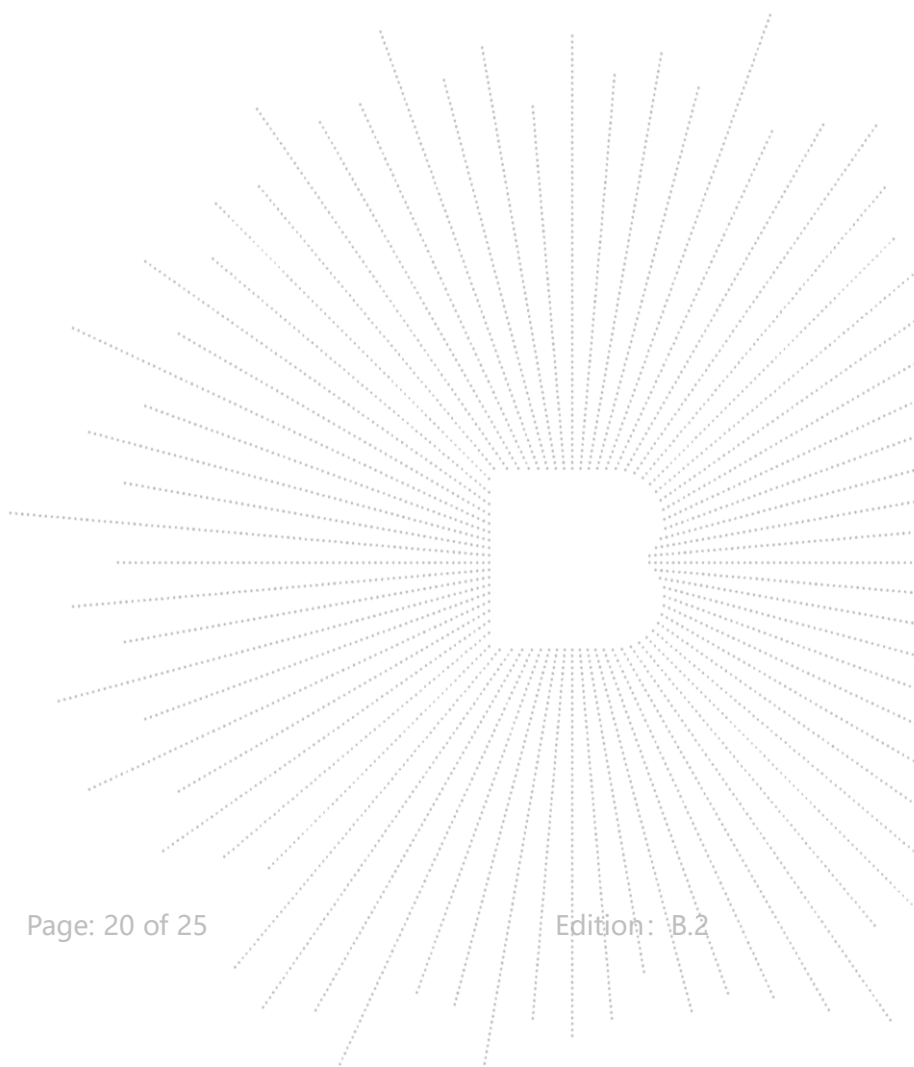
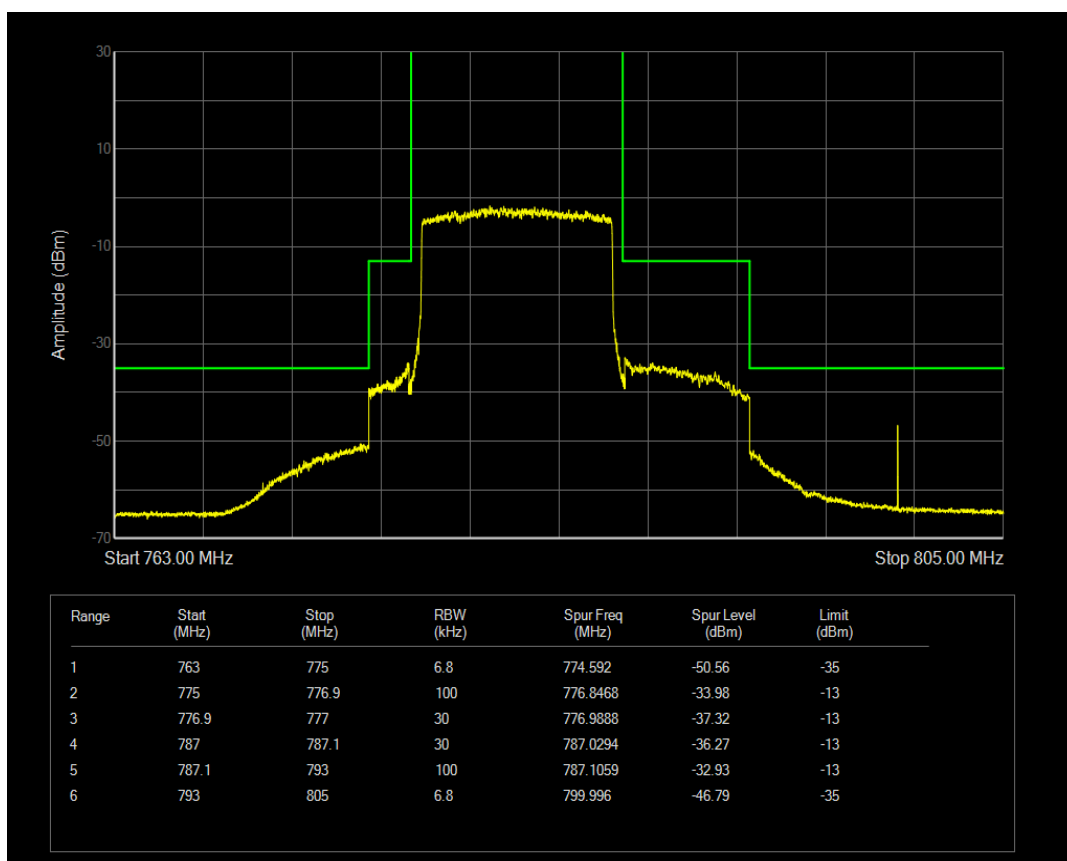
Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0



Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



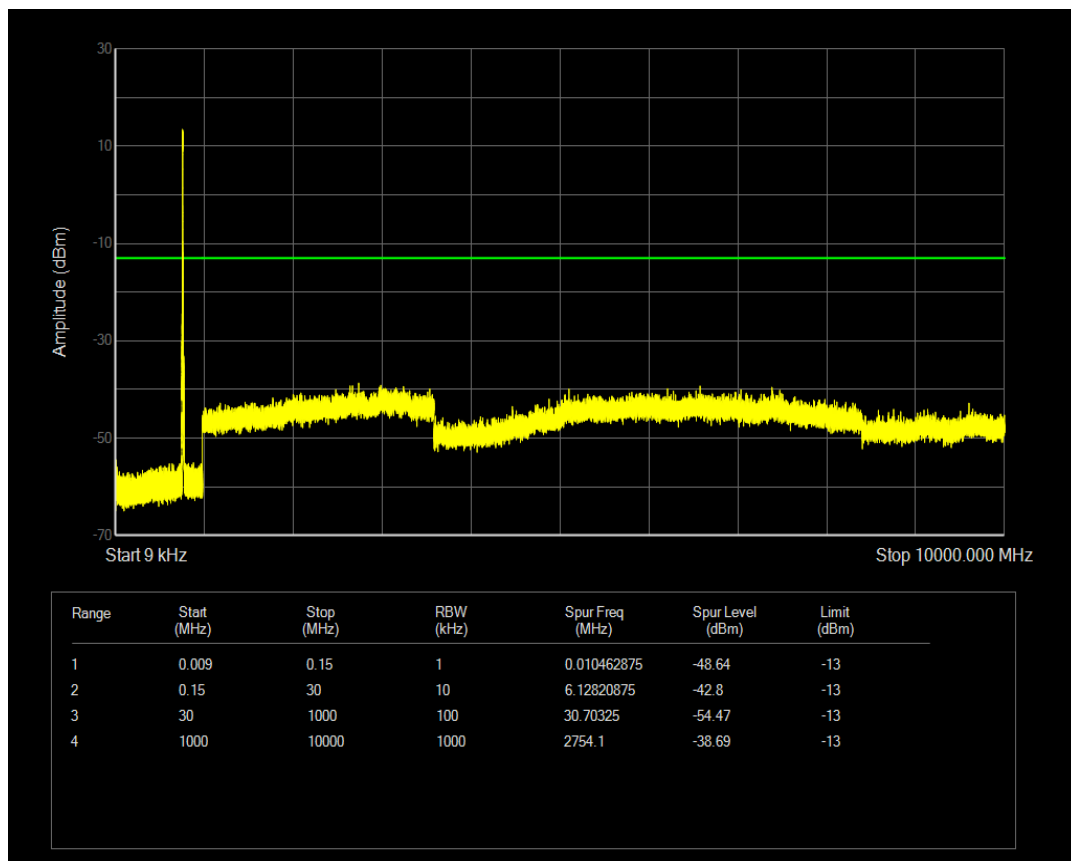
Band13 16QAM BW=10MHz Channel=23230 RB Size=50 Position=#0



Appendix 6. Out-of-band emissions

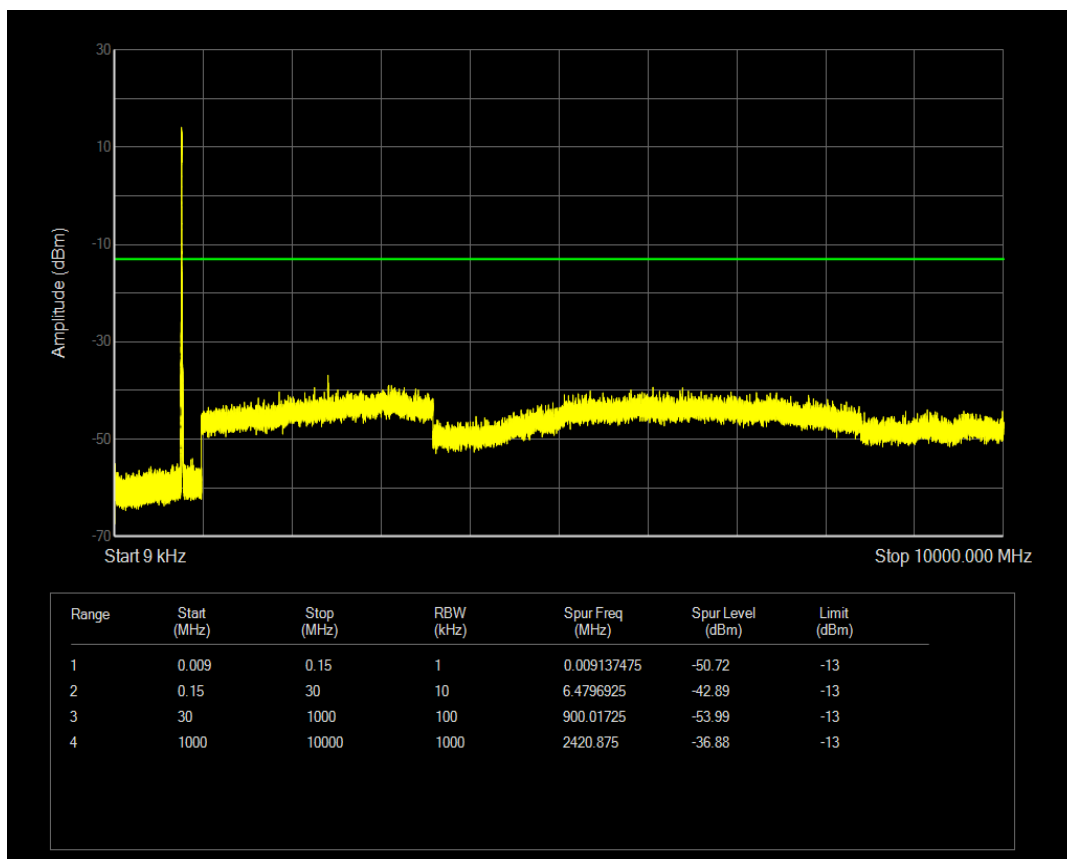
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	25	#0	QPSK	2754.10	-38.69	-13	PASS
Band13	5	23205	25	#0	16QAM	2420.88	-36.88	-13	PASS
Band13	5	23230	25	#0	QPSK	2418.85	-37.27	-13	PASS
Band13	5	23230	25	#0	16QAM	2419.98	-35.76	-13	PASS
Band13	5	23255	25	#0	QPSK	2423.80	-36.96	-13	PASS
Band13	5	23255	25	#0	16QAM	2934.55	-38.62	-13	PASS
Band13	10	23230	50	#0	QPSK	5767.98	-31.80	-13	PASS
Band13	10	23230	50	#0	16QAM	25765.63	-23.84	-13	PASS

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0

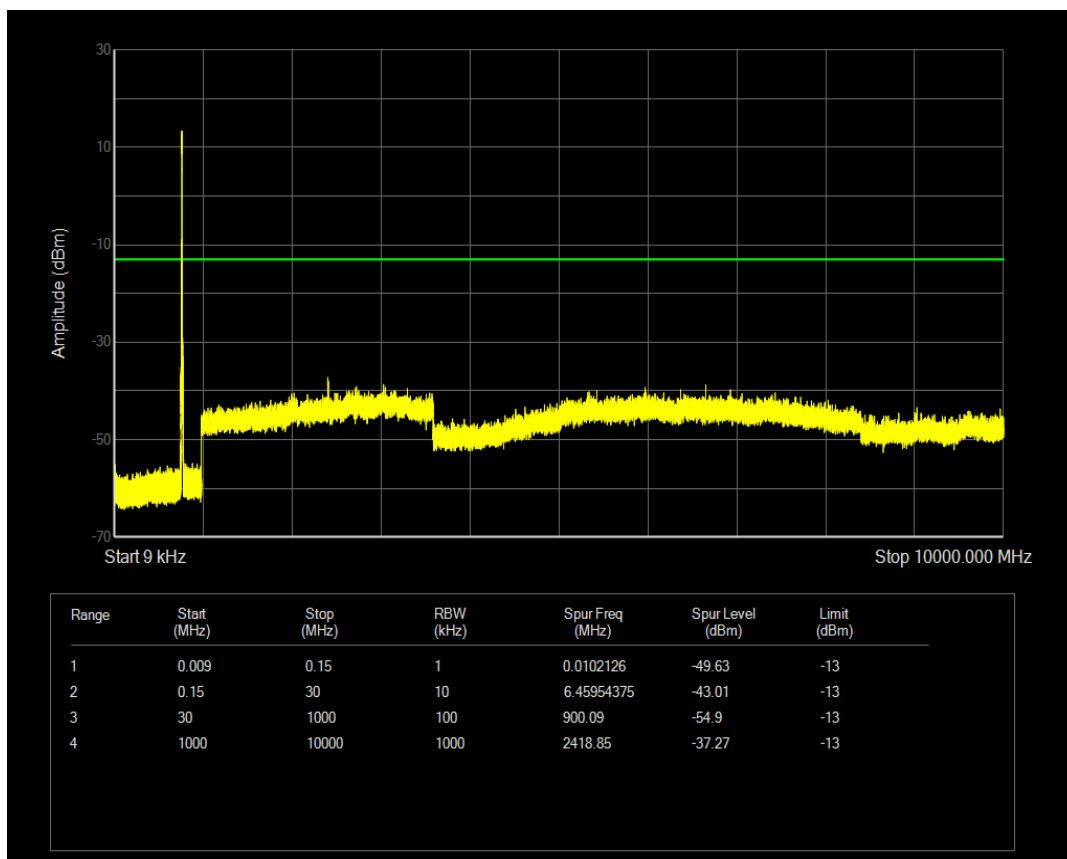




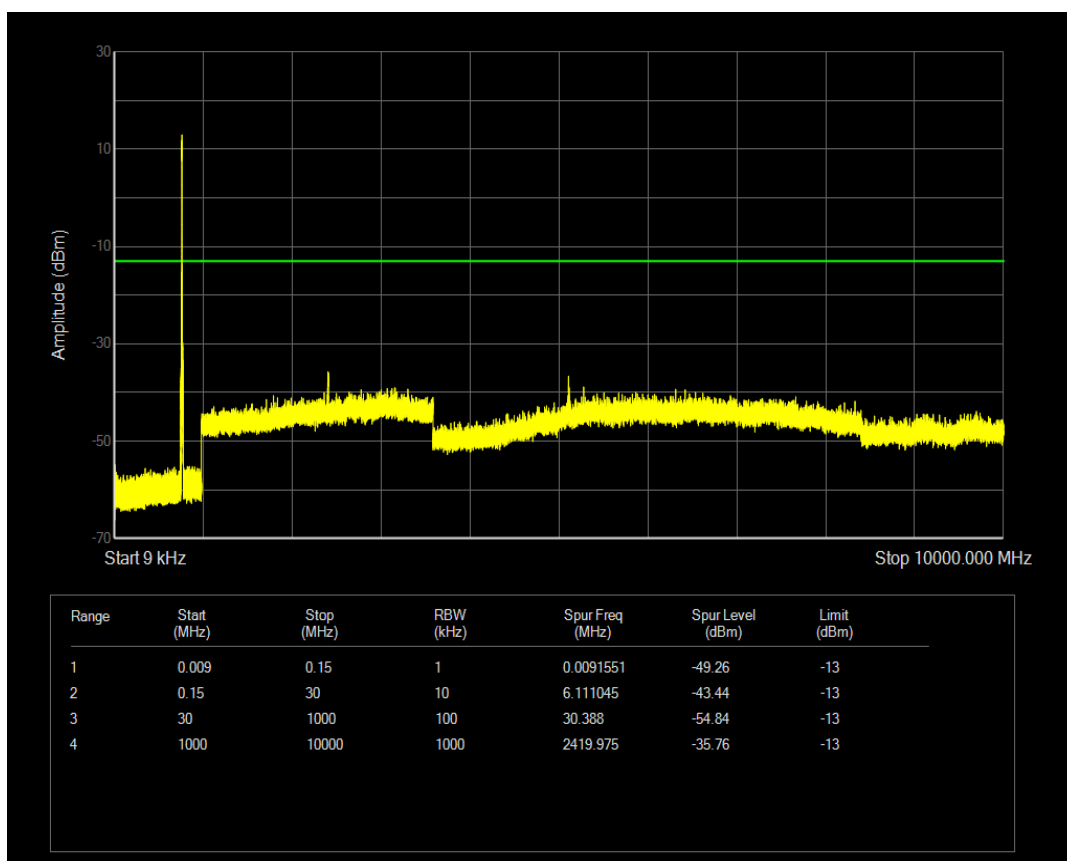
Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0



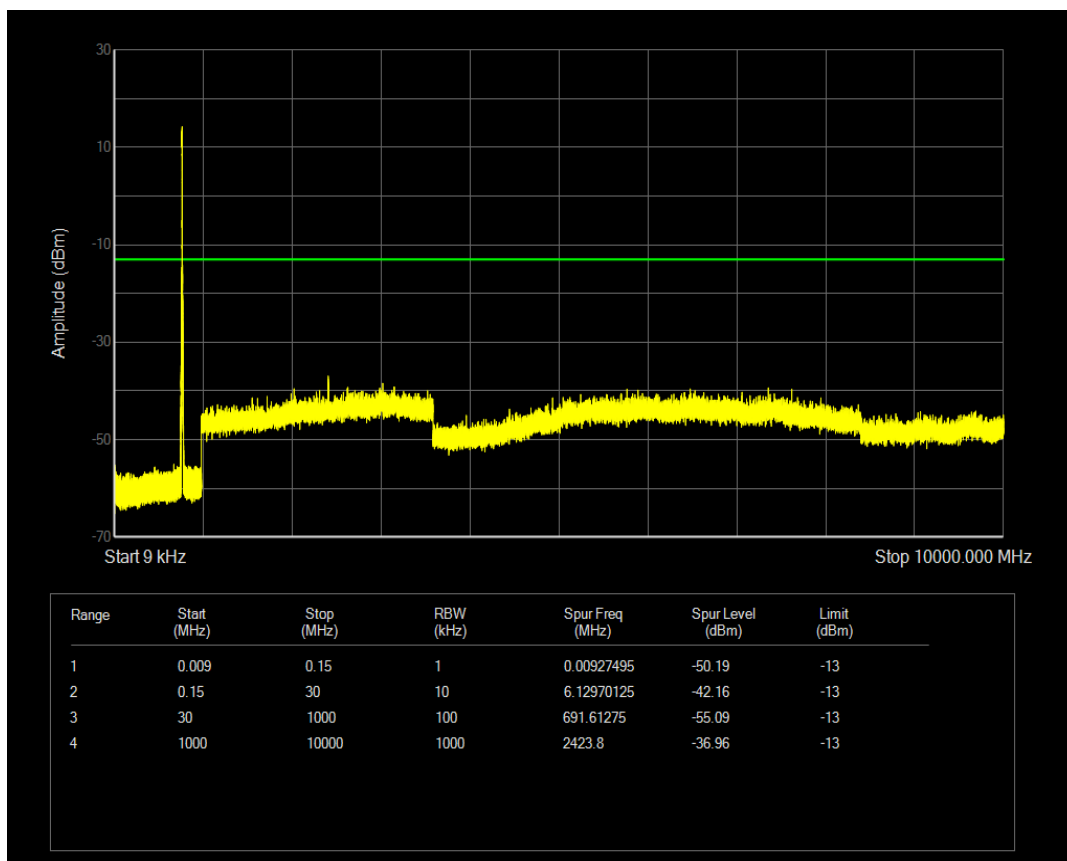
Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0



Band13 16QAM BW=5MHz Channel=23230 RB Size=25 Position=#0

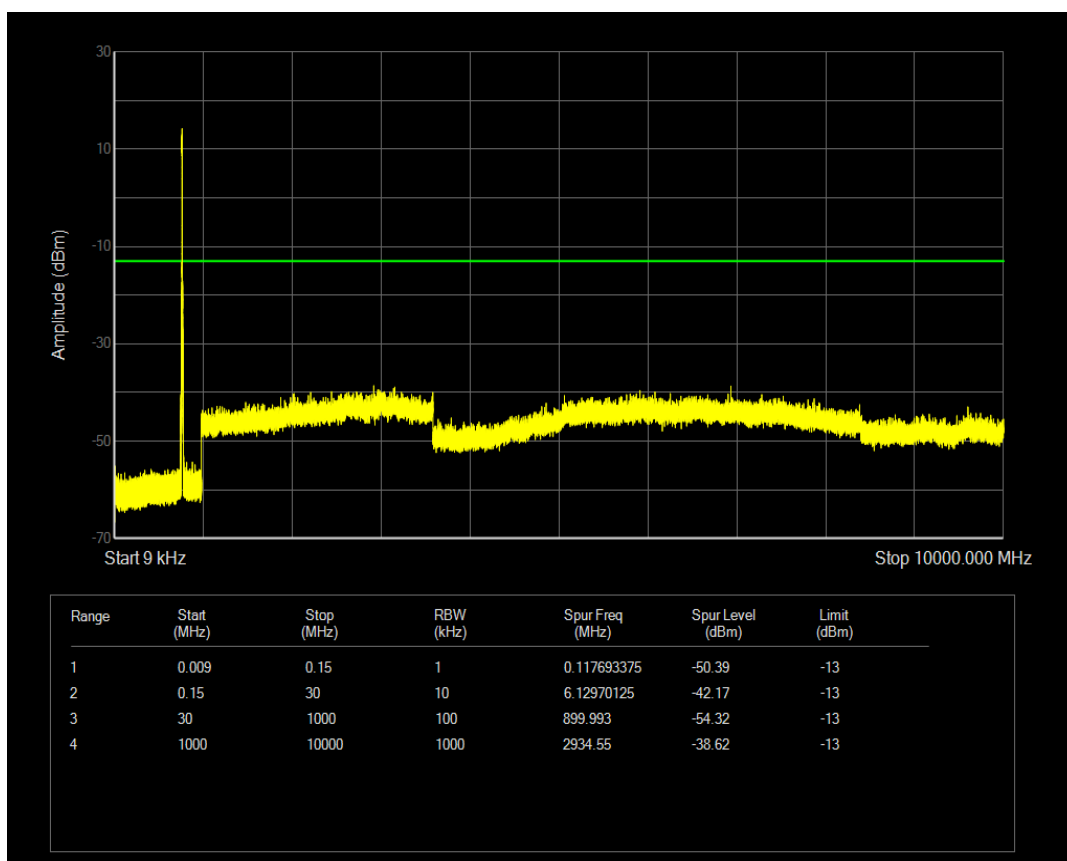


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

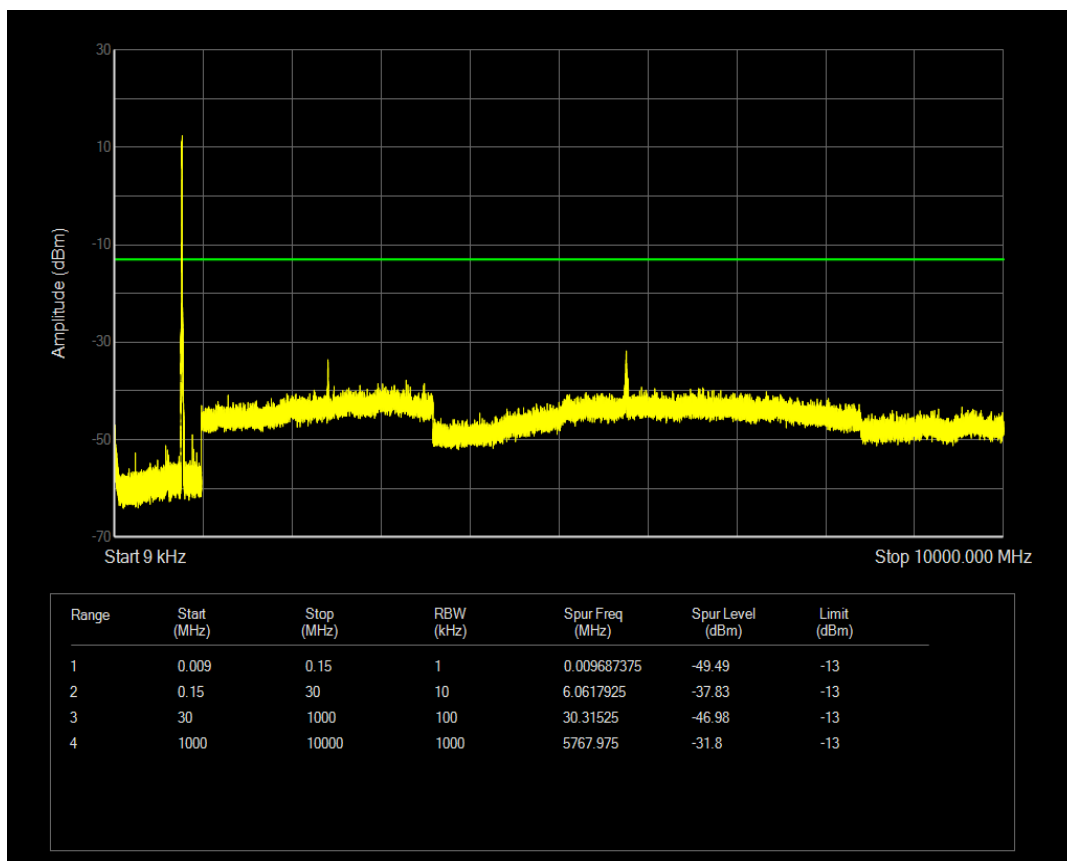




Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0



Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0





Band13 16QAM BW=10MHz Channel=23230 RB Size=50 Position=#0

