

Appendix A _ Conducted Test Data

A1 Conducted output power and ERP

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBi)	ERP (dBm)	ERP Limit (dBm)	Verdict
Band5	1.4	20407	1	#0	QAM16	22.76	0	20.61	38.45	PASS
Band5	1.4	20407	1	#Mid	QAM16	22.80	0	20.65	38.45	PASS
Band5	1.4	20407	1	#Max	QAM16	22.77	0	20.62	38.45	PASS
Band5	1.4	20407	3	#0	QAM16	22.97	0	20.82	38.45	PASS
Band5	1.4	20407	3	#Mid	QAM16	22.94	0	20.79	38.45	PASS
Band5	1.4	20407	3	#Max	QAM16	22.91	0	20.76	38.45	PASS
Band5	1.4	20407	6	#0	QAM16	21.88	0	19.73	38.45	PASS
Band5	1.4	20525	1	#0	QAM16	23.08	0	20.93	38.45	PASS
Band5	1.4	20525	1	#Mid	QAM16	23.16	0	21.01	38.45	PASS
Band5	1.4	20525	1	#Max	QAM16	22.87	0	20.72	38.45	PASS
Band5	1.4	20525	3	#0	QAM16	23.19	0	21.04	38.45	PASS
Band5	1.4	20525	3	#Mid	QAM16	23.40	0	21.25	38.45	PASS
Band5	1.4	20525	3	#Max	QAM16	23.38	0	21.23	38.45	PASS
Band5	1.4	20525	6	#0	QAM16	22.33	0	20.18	38.45	PASS
Band5	1.4	20643	1	#0	QAM16	22.82	0	20.67	38.45	PASS
Band5	1.4	20643	1	#Mid	QAM16	22.79	0	20.64	38.45	PASS
Band5	1.4	20643	1	#Max	QAM16	22.48	0	20.33	38.45	PASS
Band5	1.4	20643	3	#0	QAM16	23.01	0	20.86	38.45	PASS
Band5	1.4	20643	3	#Mid	QAM16	23.03	0	20.88	38.45	PASS
Band5	1.4	20643	3	#Max	QAM16	22.70	0	20.55	38.45	PASS
Band5	1.4	20643	6	#0	QAM16	21.97	0	19.82	38.45	PASS
Band5	3	20415	1	#0	QAM16	23.28	0	21.13	38.45	PASS
Band5	3	20415	1	#Mid	QAM16	23.19	0	21.04	38.45	PASS
Band5	3	20415	1	#Max	QAM16	23.45	0	21.30	38.45	PASS
Band5	3	20415	8	#0	QAM16	21.73	0	19.58	38.45	PASS
Band5	3	20415	8	#Mid	QAM16	21.76	0	19.61	38.45	PASS
Band5	3	20415	8	#Max	QAM16	21.74	0	19.59	38.45	PASS
Band5	3	20415	15	#0	QAM16	21.77	0	19.62	38.45	PASS
Band5	3	20525	1	#0	QAM16	22.87	0	20.72	38.45	PASS
Band5	3	20525	1	#Mid	QAM16	22.98	0	20.83	38.45	PASS
Band5	3	20525	1	#Max	QAM16	22.86	0	20.71	38.45	PASS
Band5	3	20525	8	#0	QAM16	21.96	0	19.81	38.45	PASS
Band5	3	20525	8	#Mid	QAM16	21.95	0	19.80	38.45	PASS
Band5	3	20525	8	#Max	QAM16	21.87	0	19.72	38.45	PASS
Band5	3	20525	15	#0	QAM16	21.89	0	19.74	38.45	PASS
Band5	3	20635	1	#0	QAM16	22.94	0	20.79	38.45	PASS
Band5	3	20635	1	#Mid	QAM16	22.73	0	20.58	38.45	PASS
Band5	3	20635	1	#Max	QAM16	22.57	0	20.42	38.45	PASS
Band5	3	20635	8	#0	QAM16	22.07	0	19.92	38.45	PASS

Band5	3	20635	8	#Mid	QAM16	21.93	0	19.78	38.45	PASS
Band5	3	20635	8	#Max	QAM16	21.77	0	19.62	38.45	PASS
Band5	3	20635	15	#0	QAM16	22.05	0	19.90	38.45	PASS
Band5	5	20425	1	#0	QAM16	23.06	0	20.91	38.45	PASS
Band5	5	20425	1	#Mid	QAM16	23.31	0	21.16	38.45	PASS
Band5	5	20425	1	#Max	QAM16	23.11	0	20.96	38.45	PASS
Band5	5	20425	12	#0	QAM16	21.51	0	19.36	38.45	PASS
Band5	5	20425	12	#Mid	QAM16	21.62	0	19.47	38.45	PASS
Band5	5	20425	12	#Max	QAM16	21.71	0	19.56	38.45	PASS
Band5	5	20425	25	#0	QAM16	21.74	0	19.59	38.45	PASS
Band5	5	20525	1	#0	QAM16	22.70	0	20.55	38.45	PASS
Band5	5	20525	1	#Mid	QAM16	22.69	0	20.54	38.45	PASS
Band5	5	20525	1	#Max	QAM16	22.46	0	20.31	38.45	PASS
Band5	5	20525	12	#0	QAM16	21.71	0	19.56	38.45	PASS
Band5	5	20525	12	#Mid	QAM16	21.73	0	19.58	38.45	PASS
Band5	5	20525	12	#Max	QAM16	21.58	0	19.43	38.45	PASS
Band5	5	20525	25	#0	QAM16	21.85	0	19.70	38.45	PASS
Band5	5	20625	1	#0	QAM16	23.02	0	20.87	38.45	PASS
Band5	5	20625	1	#Mid	QAM16	23.14	0	20.99	38.45	PASS
Band5	5	20625	1	#Max	QAM16	22.56	0	20.41	38.45	PASS
Band5	5	20625	12	#0	QAM16	21.82	0	19.67	38.45	PASS
Band5	5	20625	12	#Mid	QAM16	21.80	0	19.65	38.45	PASS
Band5	5	20625	12	#Max	QAM16	21.66	0	19.51	38.45	PASS
Band5	5	20625	25	#0	QAM16	21.77	0	19.62	38.45	PASS
Band5	1.4	20407	1	#0	QPSK	23.82	0	21.67	38.45	PASS
Band5	1.4	20407	1	#Mid	QPSK	23.99	0	21.84	38.45	PASS
Band5	1.4	20407	1	#Max	QPSK	23.90	0	21.75	38.45	PASS
Band5	1.4	20407	3	#0	QPSK	23.84	0	21.69	38.45	PASS
Band5	1.4	20407	3	#Mid	QPSK	23.86	0	21.71	38.45	PASS
Band5	1.4	20407	3	#Max	QPSK	23.92	0	21.77	38.45	PASS
Band5	1.4	20407	6	#0	QPSK	22.89	0	20.74	38.45	PASS
Band5	1.4	20525	1	#0	QPSK	24.14	0	21.99	38.45	PASS
Band5	1.4	20525	1	#Mid	QPSK	24.24	0	22.09	38.45	PASS
Band5	1.4	20525	1	#Max	QPSK	24.08	0	21.93	38.45	PASS
Band5	1.4	20525	3	#0	QPSK	24.06	0	21.91	38.45	PASS
Band5	1.4	20525	3	#Mid	QPSK	24.12	0	21.97	38.45	PASS
Band5	1.4	20525	3	#Max	QPSK	24.00	0	21.85	38.45	PASS
Band5	1.4	20525	6	#0	QPSK	22.98	0	20.83	38.45	PASS
Band5	1.4	20643	1	#0	QPSK	23.69	0	21.54	38.45	PASS
Band5	1.4	20643	1	#Mid	QPSK	23.65	0	21.50	38.45	PASS
Band5	1.4	20643	1	#Max	QPSK	23.75	0	21.60	38.45	PASS
Band5	1.4	20643	3	#0	QPSK	23.92	0	21.77	38.45	PASS
Band5	1.4	20643	3	#Mid	QPSK	23.83	0	21.68	38.45	PASS
Band5	1.4	20643	3	#Max	QPSK	23.84	0	21.69	38.45	PASS
Band5	1.4	20643	6	#0	QPSK	22.90	0	20.75	38.45	PASS

Band5	3	20415	1	#0	QPSK	23.87	0	21.72	38.45	PASS
Band5	3	20415	1	#Mid	QPSK	23.93	0	21.78	38.45	PASS
Band5	3	20415	1	#Max	QPSK	24.03	0	21.88	38.45	PASS
Band5	3	20415	8	#0	QPSK	22.85	0	20.70	38.45	PASS
Band5	3	20415	8	#Mid	QPSK	22.83	0	20.68	38.45	PASS
Band5	3	20415	8	#Max	QPSK	22.82	0	20.67	38.45	PASS
Band5	3	20415	15	#0	QPSK	22.79	0	20.64	38.45	PASS
Band5	3	20525	1	#0	QPSK	23.88	0	21.73	38.45	PASS
Band5	3	20525	1	#Mid	QPSK	23.87	0	21.72	38.45	PASS
Band5	3	20525	1	#Max	QPSK	23.94	0	21.79	38.45	PASS
Band5	3	20525	8	#0	QPSK	23.09	0	20.94	38.45	PASS
Band5	3	20525	8	#Mid	QPSK	23.00	0	20.85	38.45	PASS
Band5	3	20525	8	#Max	QPSK	23.02	0	20.87	38.45	PASS
Band5	3	20525	15	#0	QPSK	22.99	0	20.84	38.45	PASS
Band5	3	20635	1	#0	QPSK	23.98	0	21.83	38.45	PASS
Band5	3	20635	1	#Mid	QPSK	24.10	0	21.95	38.45	PASS
Band5	3	20635	1	#Max	QPSK	23.79	0	21.64	38.45	PASS
Band5	3	20635	8	#0	QPSK	23.03	0	20.88	38.45	PASS
Band5	3	20635	8	#Mid	QPSK	22.94	0	20.79	38.45	PASS
Band5	3	20635	8	#Max	QPSK	22.87	0	20.72	38.45	PASS
Band5	3	20635	15	#0	QPSK	23.02	0	20.87	38.45	PASS
Band5	5	20425	1	#0	QPSK	23.61	0	21.46	38.45	PASS
Band5	5	20425	1	#Mid	QPSK	23.89	0	21.74	38.45	PASS
Band5	5	20425	1	#Max	QPSK	23.71	0	21.56	38.45	PASS
Band5	5	20425	12	#0	QPSK	22.70	0	20.55	38.45	PASS
Band5	5	20425	12	#Mid	QPSK	22.86	0	20.71	38.45	PASS
Band5	5	20425	12	#Max	QPSK	22.86	0	20.71	38.45	PASS
Band5	5	20425	25	#0	QPSK	22.82	0	20.67	38.45	PASS
Band5	5	20525	1	#0	QPSK	23.53	0	21.38	38.45	PASS
Band5	5	20525	1	#Mid	QPSK	23.94	0	21.79	38.45	PASS
Band5	5	20525	1	#Max	QPSK	23.76	0	21.61	38.45	PASS
Band5	5	20525	12	#0	QPSK	23.06	0	20.91	38.45	PASS
Band5	5	20525	12	#Mid	QPSK	23.00	0	20.85	38.45	PASS
Band5	5	20525	12	#Max	QPSK	22.86	0	20.71	38.45	PASS
Band5	5	20525	25	#0	QPSK	22.98	0	20.83	38.45	PASS
Band5	5	20625	1	#0	QPSK	23.71	0	21.56	38.45	PASS
Band5	5	20625	1	#Mid	QPSK	23.86	0	21.71	38.45	PASS
Band5	5	20625	1	#Max	QPSK	23.62	0	21.47	38.45	PASS
Band5	5	20625	12	#0	QPSK	23.02	0	20.87	38.45	PASS
Band5	5	20625	12	#Mid	QPSK	23.09	0	20.94	38.45	PASS
Band5	5	20625	12	#Max	QPSK	22.85	0	20.70	38.45	PASS
Band5	5	20625	25	#0	QPSK	22.92	0	20.77	38.45	PASS

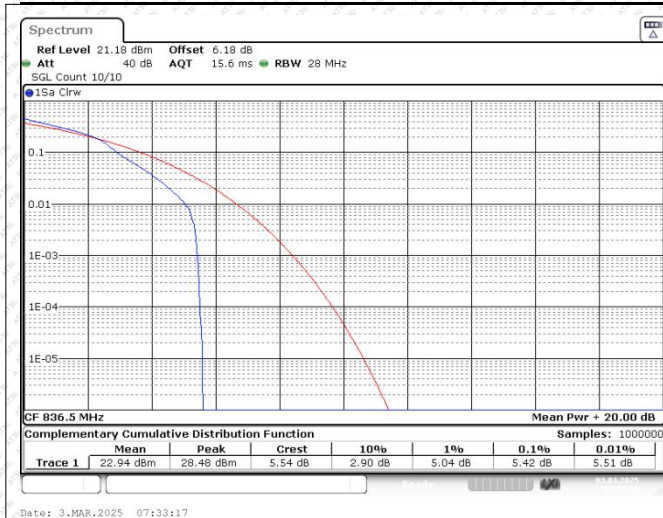
A2 Frequency stability

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	5	20525	25	#0	QPSK	VL	NT	-1.5	-0.002	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	VN	NT	-1.59	-0.002	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	VH	NT	0.63	0.001	-2.5	2.5	PASS

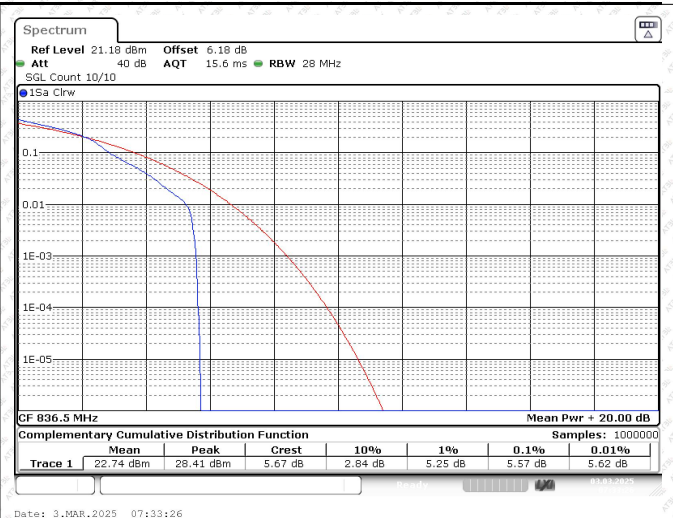
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band5	5	20525	25	#0	QPSK	NV	-30	0.27	0.000	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	-20	-0.56	-0.001	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	-10	-1.26	-0.002	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	0	1.03	0.001	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	10	0.44	0.001	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	20	0.29	0.000	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	30	-0.44	-0.001	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	40	-0.33	0.000	-2.5	2.5	PASS
Band5	5	20525	25	#0	QPSK	NV	50	-0.49	-0.001	-2.5	2.5	PASS

A3 Peak-to-Average Ratio

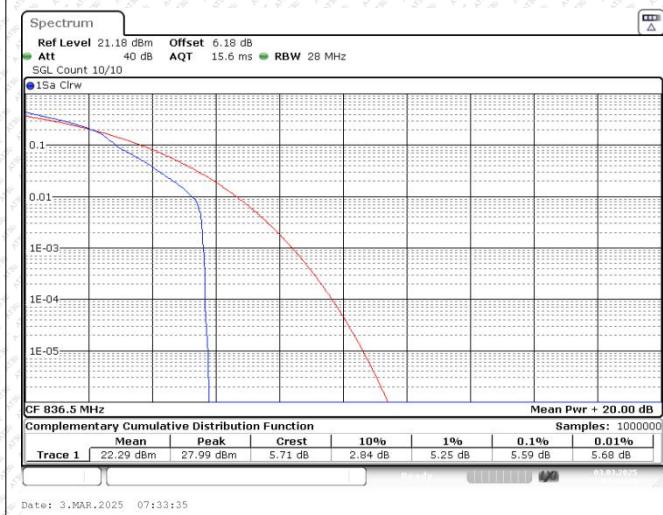
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band5	1.4	20525	1	#0	QAM16	5.42	13	PASS
Band5	3	20525	1	#0	QAM16	5.57	13	PASS
Band5	5	20525	1	#0	QAM16	5.59	13	PASS
Band5	1.4	20525	1	#0	QPSK	4.58	13	PASS
Band5	3	20525	1	#0	QPSK	4.75	13	PASS
Band5	5	20525	1	#0	QPSK	4.72	13	PASS



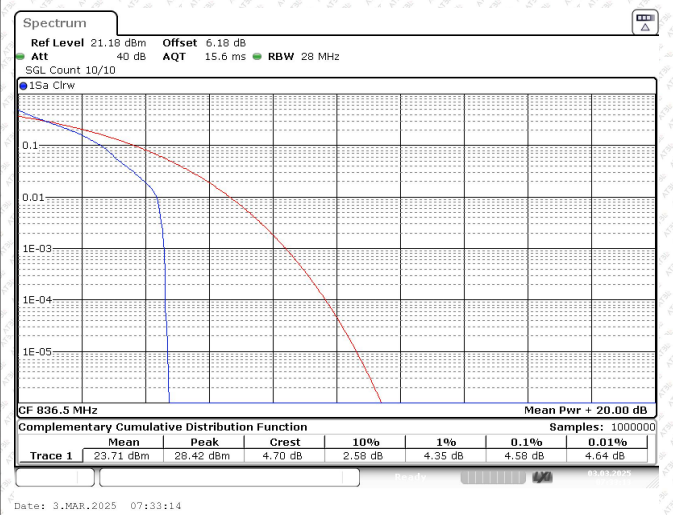
Band5 QAM16 BW=1.4MHz Channel=20525 RB Size=1 Position=#0



Band5 QAM16 BW=3MHz Channel=20525 RB Size=1 Position=#0



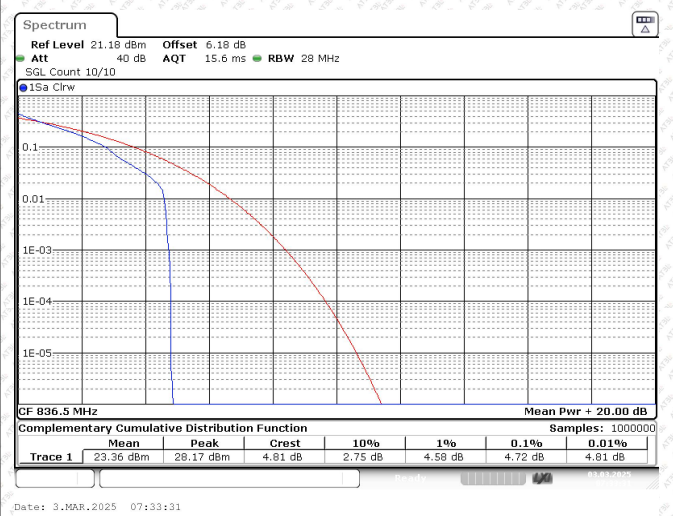
Band5 QAM16 BW=5MHz Channel=20525 RB Size=1 Position=#0



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



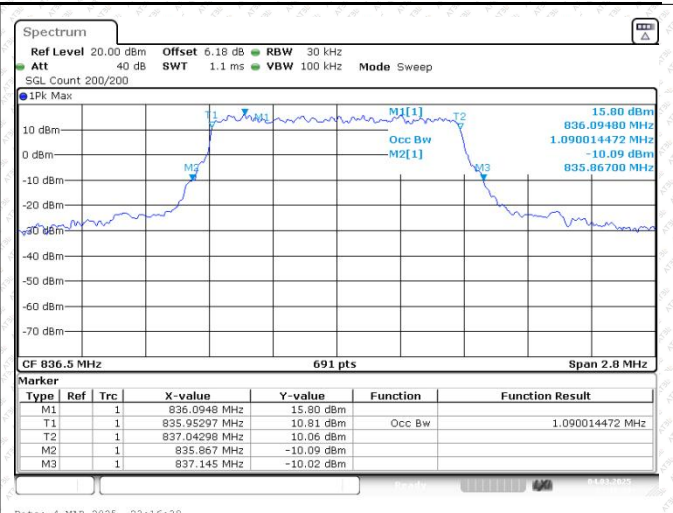
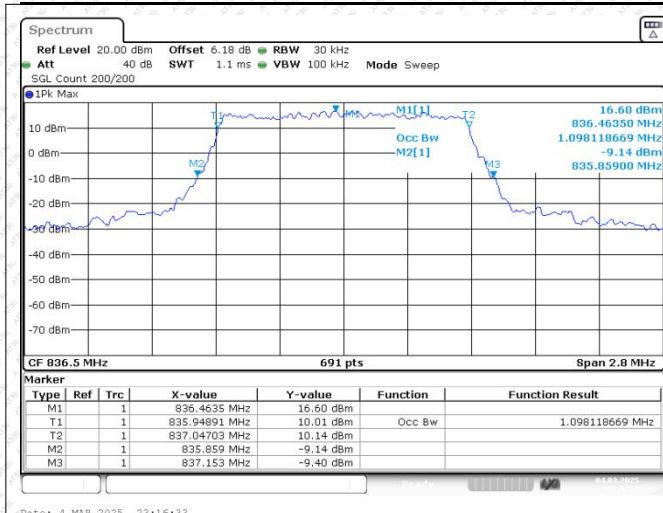
Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



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

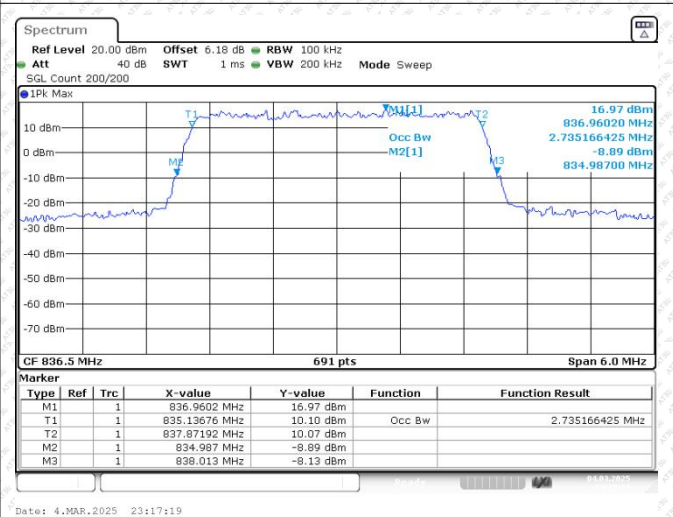
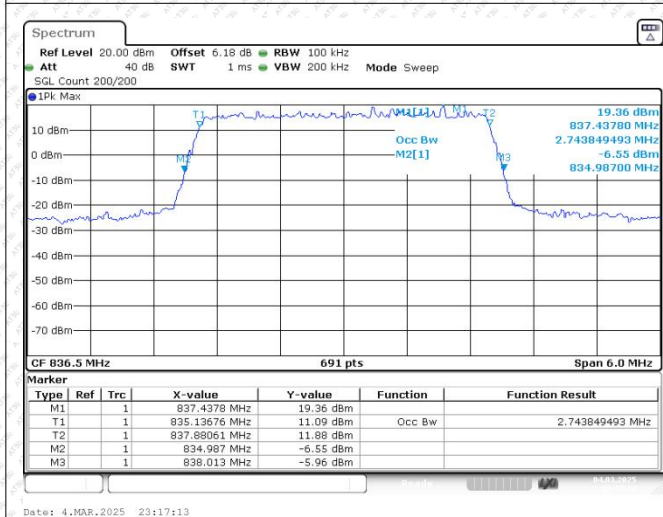
A4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band5	1.4	20407	6	#0	QAM16	1.094	1.311	PASS
Band5	1.4	20525	6	#0	QAM16	1.090	1.278	PASS
Band5	1.4	20643	6	#0	QAM16	1.090	1.299	PASS
Band5	3	20415	15	#0	QAM16	2.744	3.052	PASS
Band5	3	20525	15	#0	QAM16	2.735	3.026	PASS
Band5	3	20635	15	#0	QAM16	2.726	3.035	PASS
Band5	5	20425	25	#0	QAM16	4.486	4.928	PASS
Band5	5	20525	25	#0	QAM16	4.515	4.928	PASS
Band5	5	20625	25	#0	QAM16	4.501	4.957	PASS
Band5	1.4	20407	6	#0	QPSK	1.094	1.290	PASS
Band5	1.4	20525	6	#0	QPSK	1.098	1.294	PASS
Band5	1.4	20643	6	#0	QPSK	1.102	1.258	PASS
Band5	3	20415	15	#0	QPSK	2.726	3.026	PASS
Band5	3	20525	15	#0	QPSK	2.744	3.026	PASS
Band5	3	20635	15	#0	QPSK	2.744	3.078	PASS
Band5	5	20425	25	#0	QPSK	4.515	4.986	PASS
Band5	5	20525	25	#0	QPSK	4.501	4.957	PASS
Band5	5	20625	25	#0	QPSK	4.501	4.957	PASS



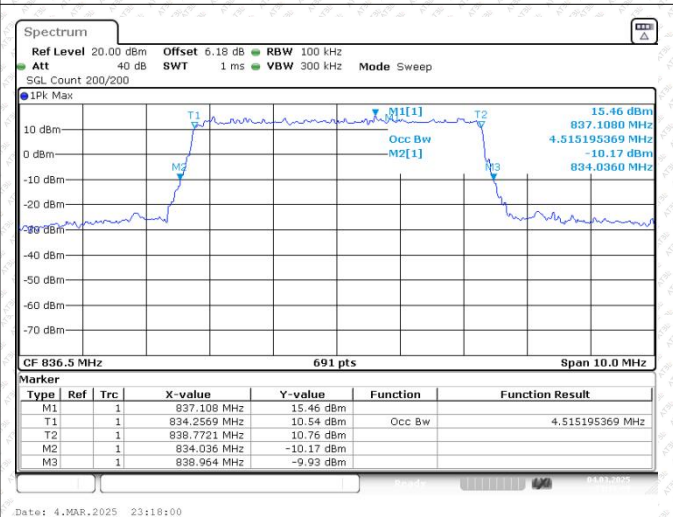
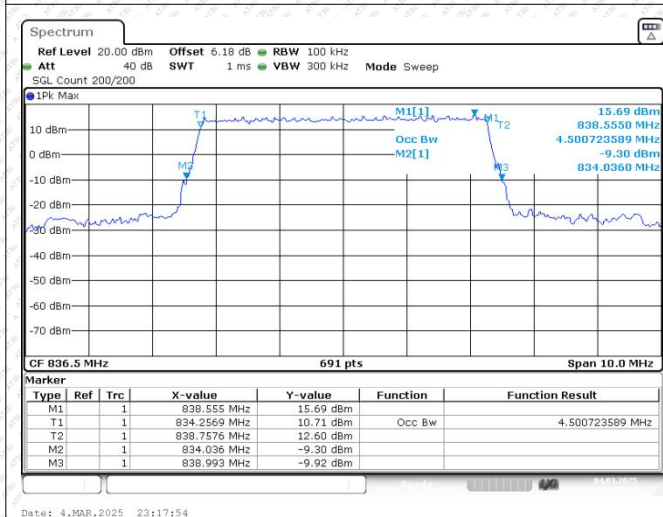
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Band5 QAM16 BW=1.4MHz Channel=20525 RB Size=6 Position=#0



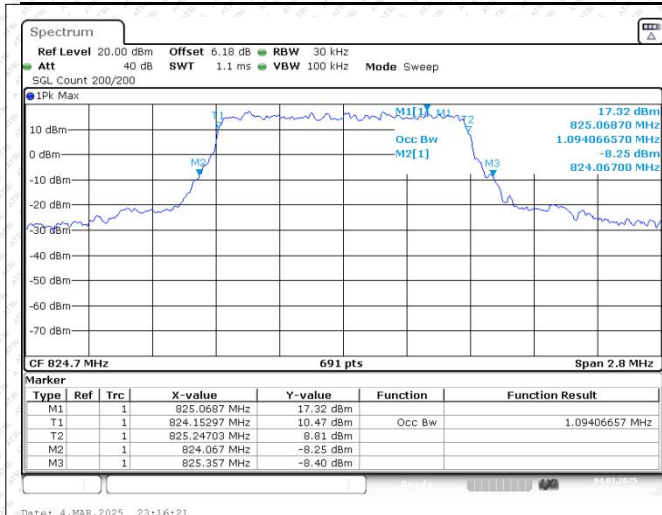
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Band5 QAM16 BW=3MHz Channel=20525 RB Size=15 Position=#0

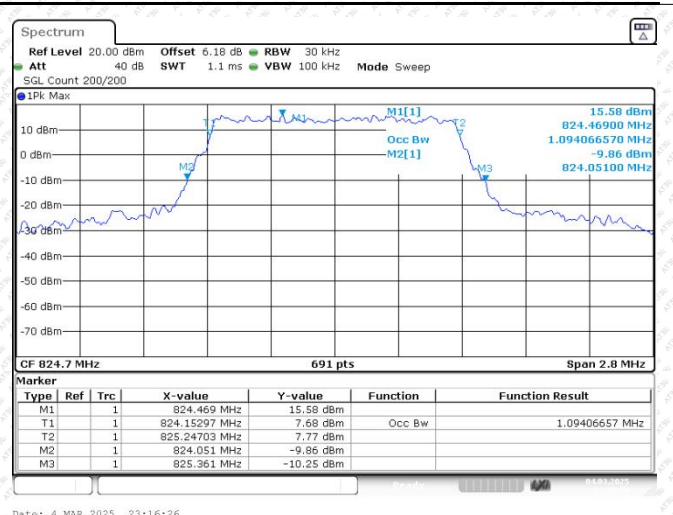


Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0

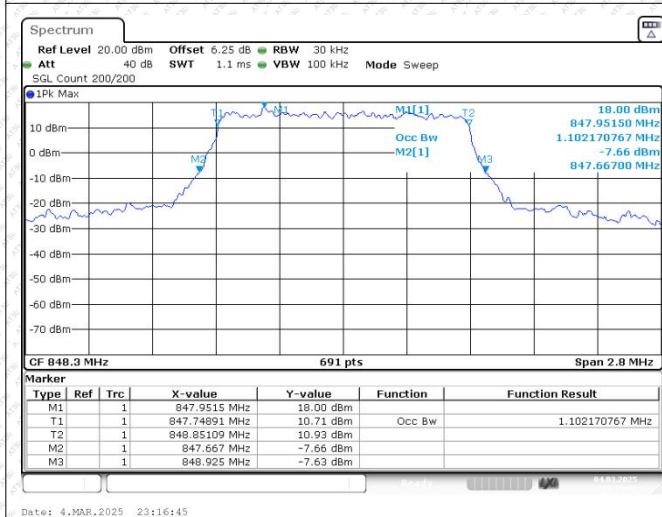
Band5 QAM16 BW=5MHz Channel=20525 RB Size=25 Position=#0



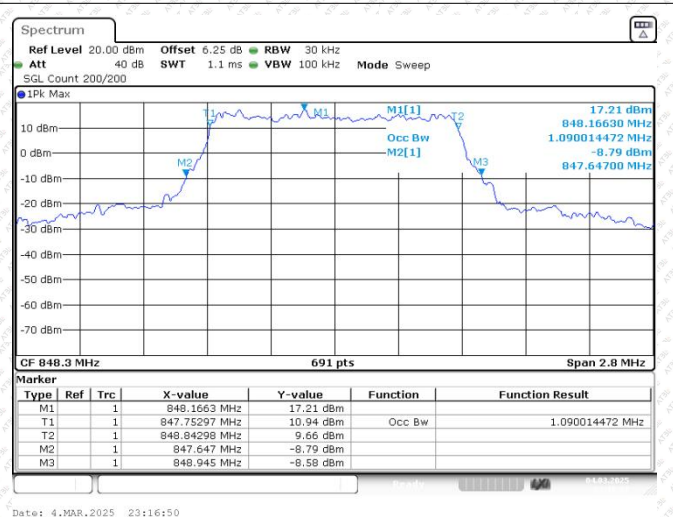
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



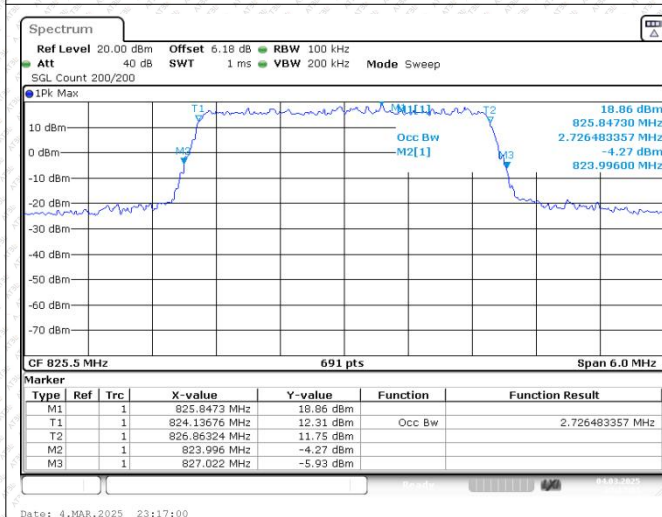
Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0



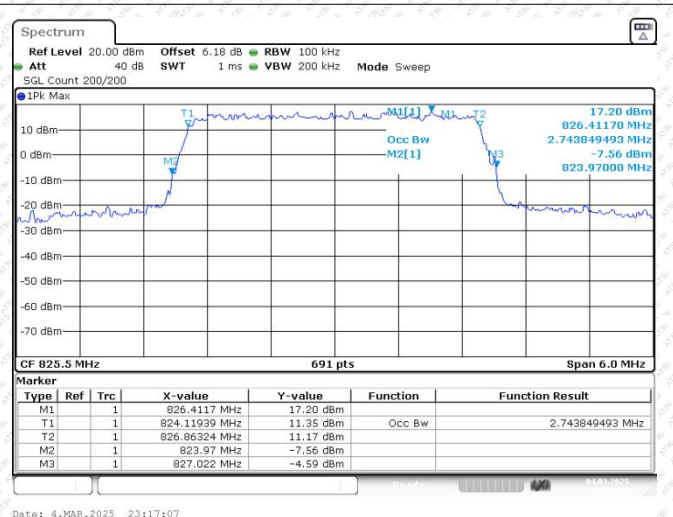
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



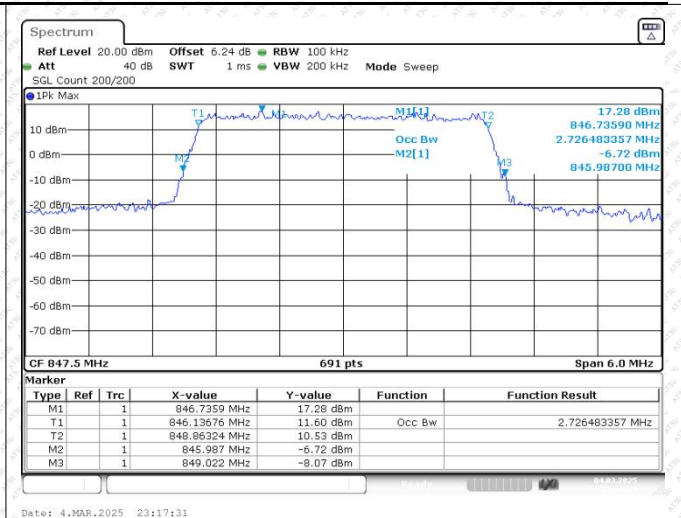
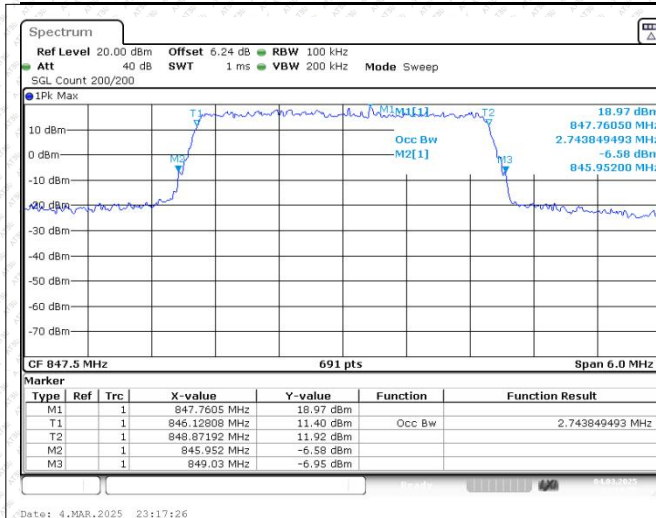
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Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0

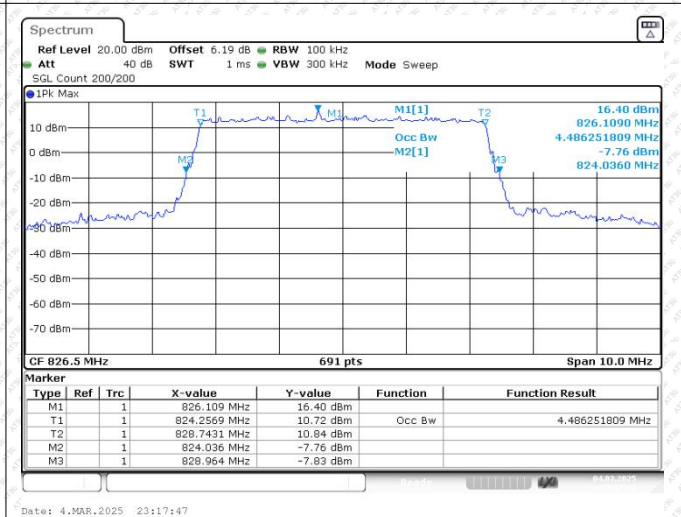
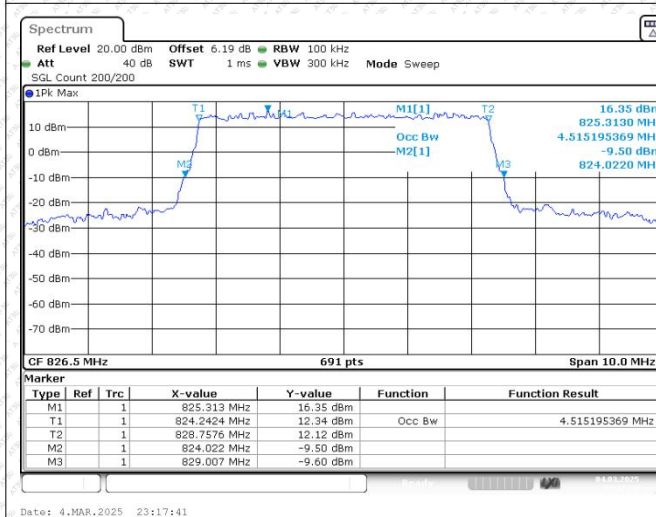


Band5 QAM16 BW=3MHz Channel=20415 RB Size=15 Position=#0



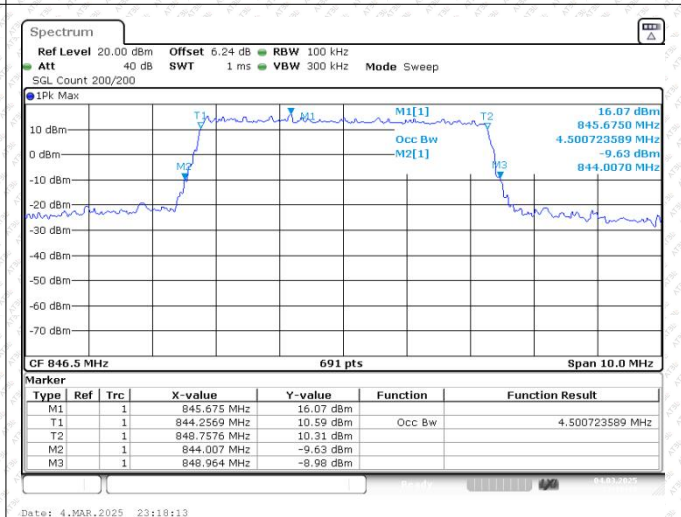
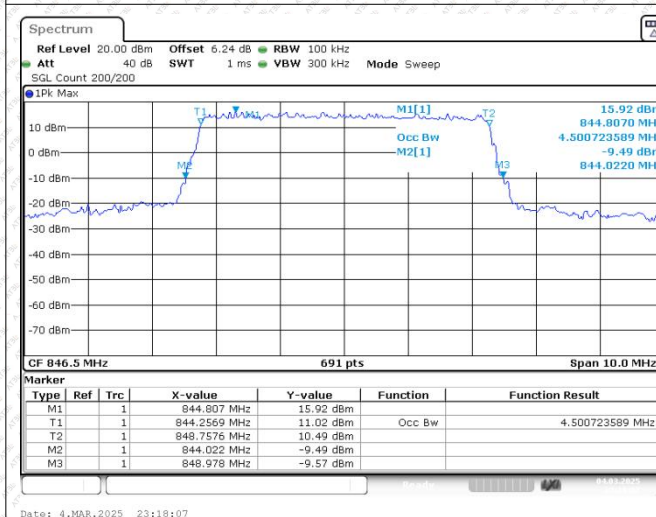
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0

Band5 QAM16 BW=3MHz Channel=20635 RB Size=15 Position=#0



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

Band5 QAM16 BW=5MHz Channel=20425 RB Size=25 Position=#0

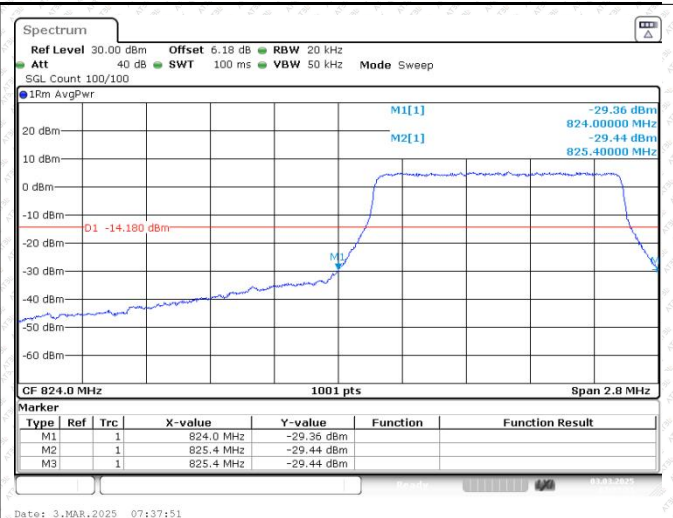
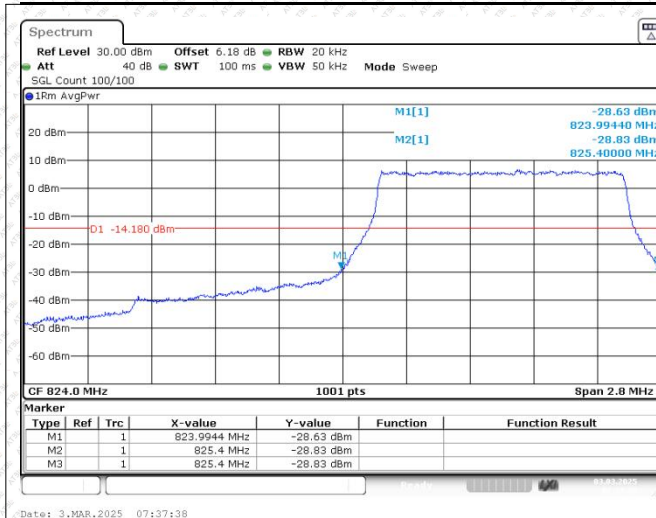


Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0

Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0

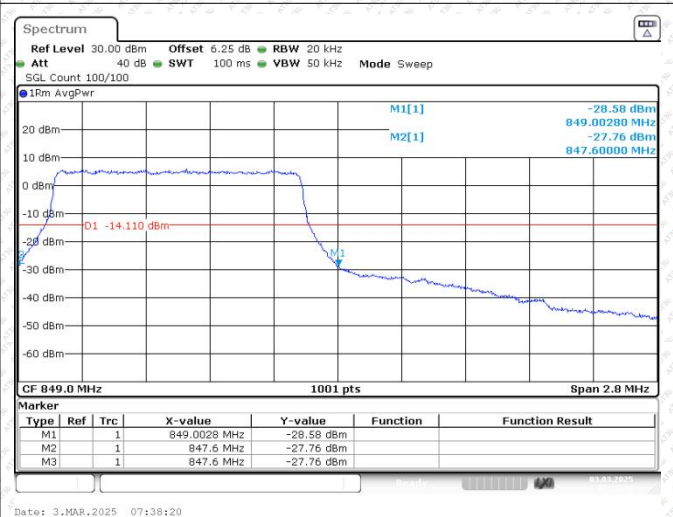
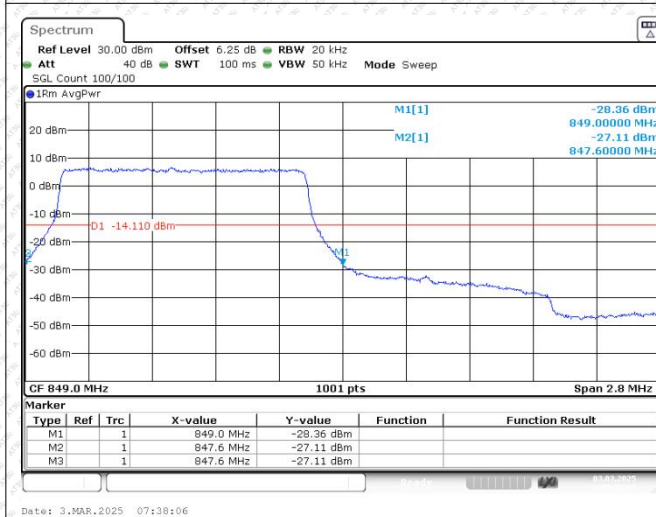
A5 Band edge

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	QAM16	824.00	-29.36	-13	PASS
Band5	1.4	20643	6	#0	QAM16	849.00	-28.57	-13	PASS
Band5	3	20415	15	#0	QAM16	824.00	-28.47	-13	PASS
Band5	3	20635	15	#0	QAM16	849.00	-28.05	-13	PASS
Band5	5	20425	25	#0	QAM16	824.00	-29.45	-13	PASS
Band5	5	20625	25	#0	QAM16	849.00	-28.81	-13	PASS
Band5	1.4	20407	6	#0	QPSK	823.99	-28.63	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.00	-28.36	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-26.95	-13	PASS
Band5	3	20635	15	#0	QPSK	849.00	-28.04	-13	PASS
Band5	5	20425	25	#0	QPSK	824.00	-28.62	-13	PASS
Band5	5	20625	25	#0	QPSK	849.01	-28.36	-13	PASS



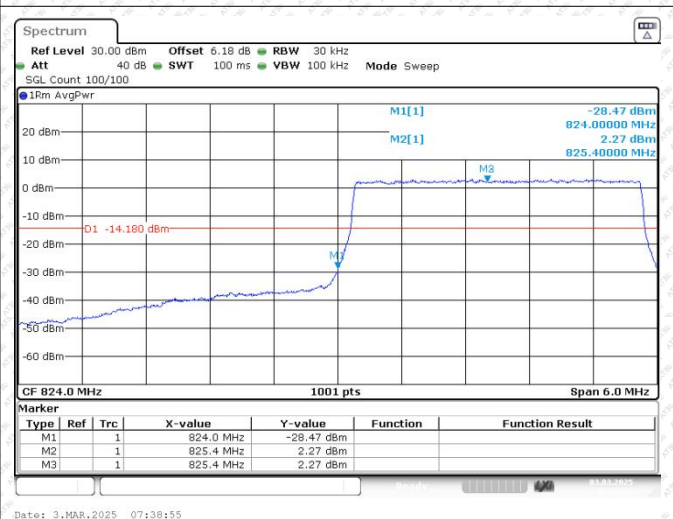
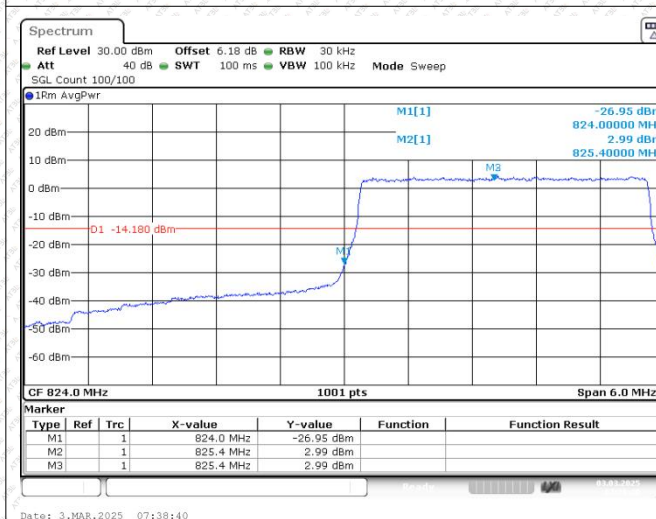
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0

Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0



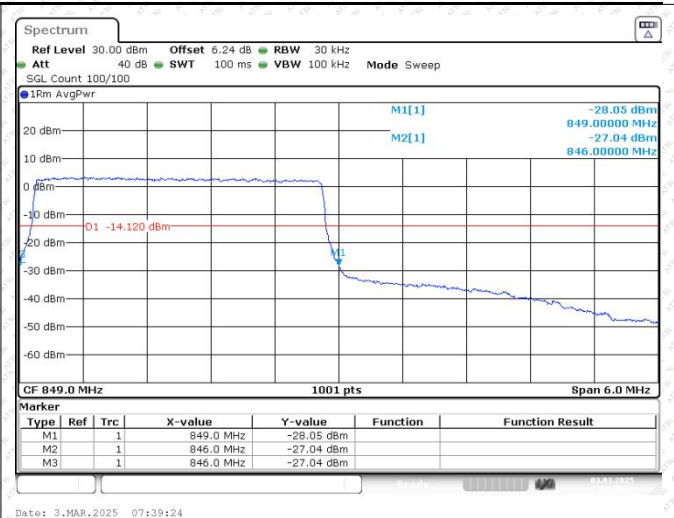
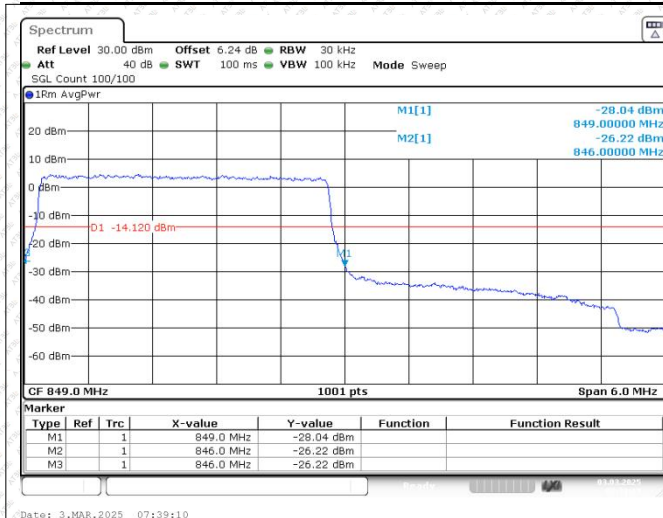
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0

Band5 QAM16 BW=1.4MHz Channel=20643 RB Size=6 Position=#0



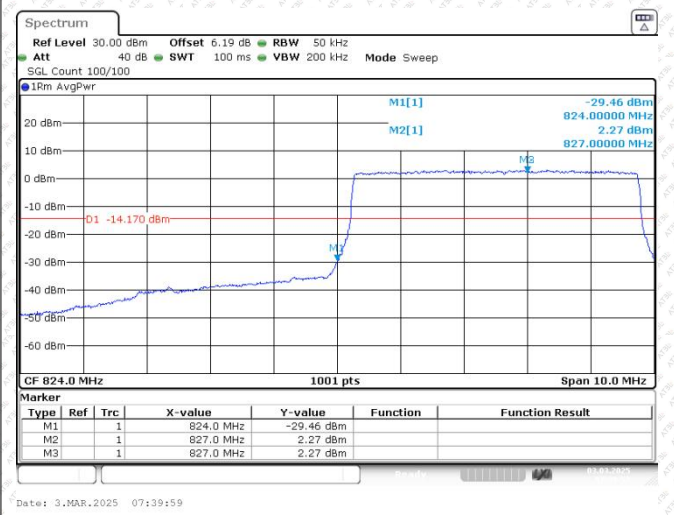
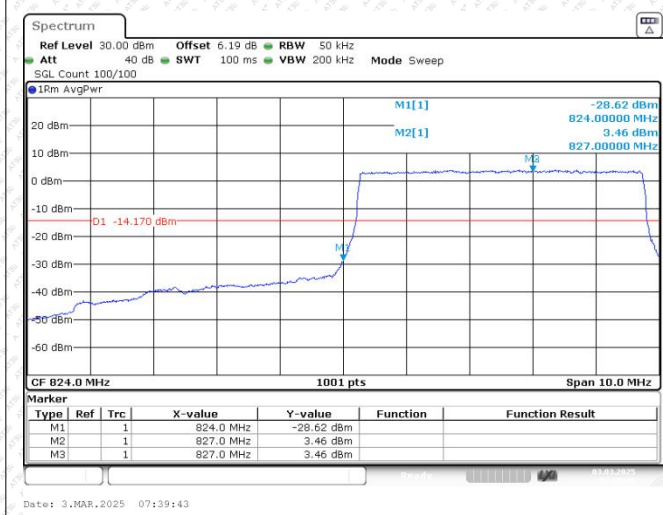
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0

Band5 QAM16 BW=3MHz Channel=20415 RB Size=15 Position=#0



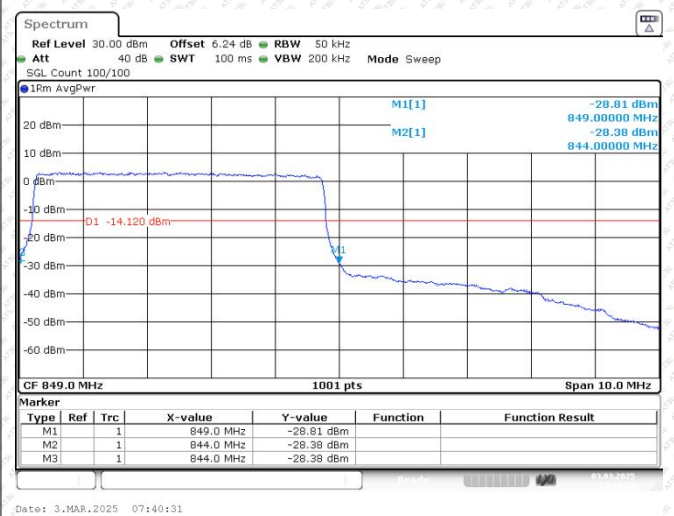
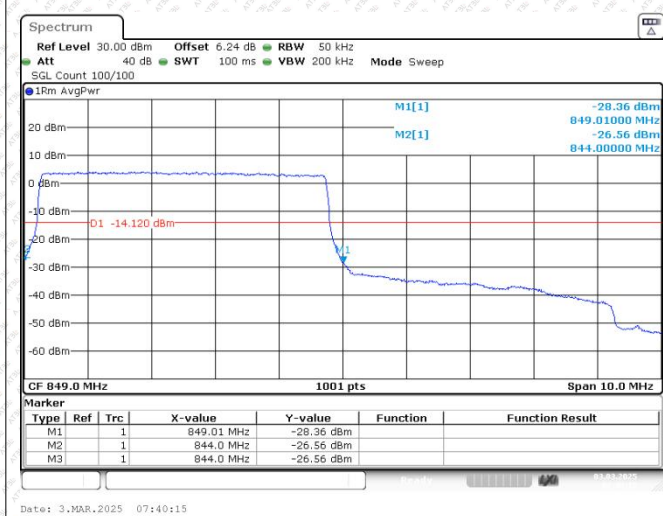
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0

Band5 QAM16 BW=3MHz Channel=20635 RB Size=15 Position=#0



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

Band5 QAM16 BW=5MHz Channel=20425 RB Size=25 Position=#0

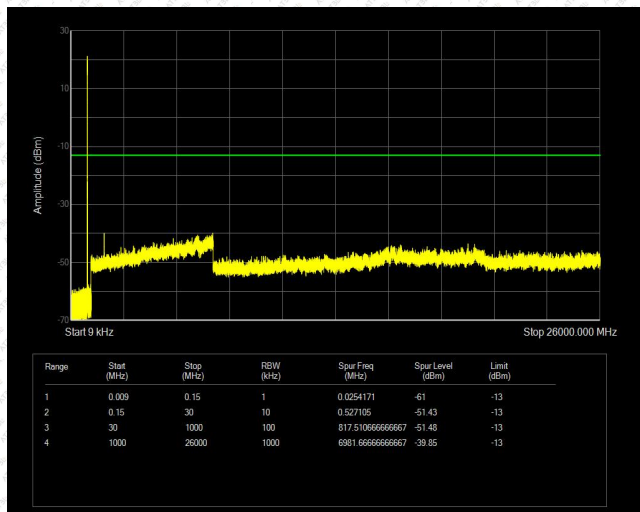


Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0

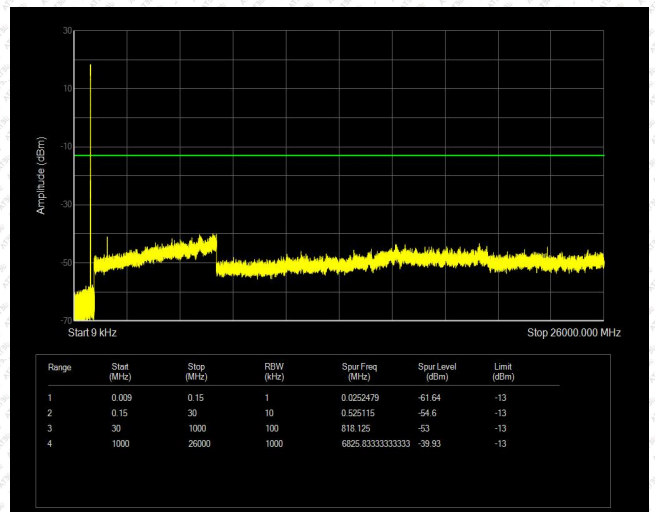
Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0

A6 Out-of-band emissions

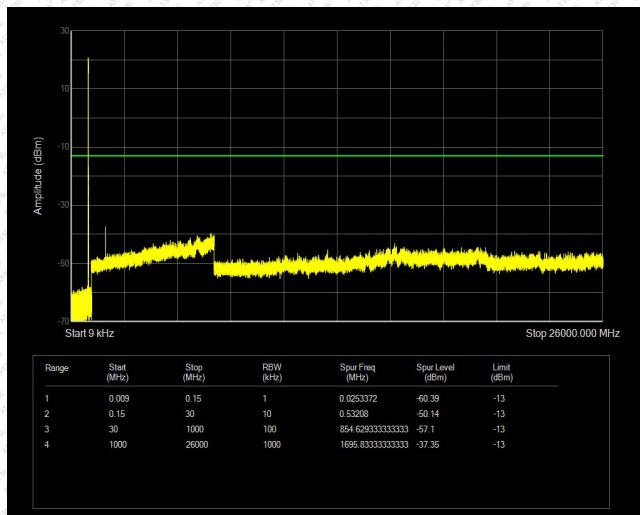
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QAM16	6825.83	-39.93	-13	PASS
Band5	1.4	20643	6	#0	QAM16	1695.00	-39.01	-13	PASS
Band5	3	20415	15	#0	QAM16	6895.83	-40.21	-13	PASS
Band5	3	20635	15	#0	QAM16	6898.33	-39.06	-13	PASS
Band5	5	20425	25	#0	QAM16	6203.33	-40.23	-13	PASS
Band5	5	20625	25	#0	QAM16	6215.00	-39.82	-13	PASS
Band5	1.4	20407	6	#0	QPSK	6981.67	-39.85	-13	PASS
Band5	1.4	20643	6	#0	QPSK	1695.83	-37.35	-13	PASS
Band5	3	20415	15	#0	QPSK	6941.67	-39.98	-13	PASS
Band5	3	20635	15	#0	QPSK	6826.67	-39.73	-13	PASS
Band5	5	20425	25	#0	QPSK	6945.83	-39.72	-13	PASS
Band5	5	20625	25	#0	QPSK	6988.33	-39.66	-13	PASS



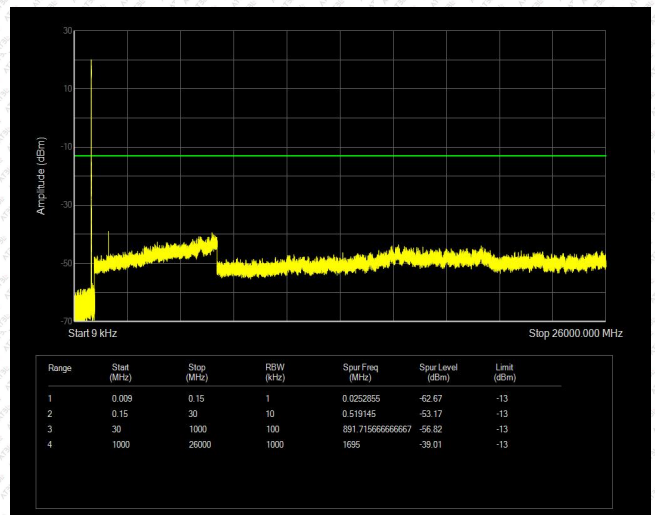
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



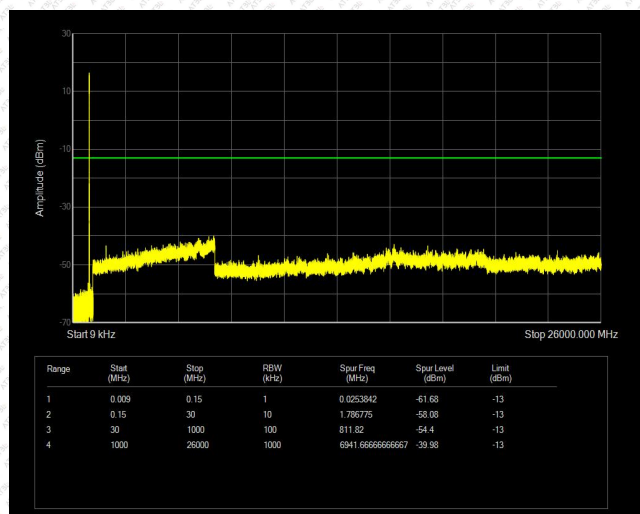
Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0



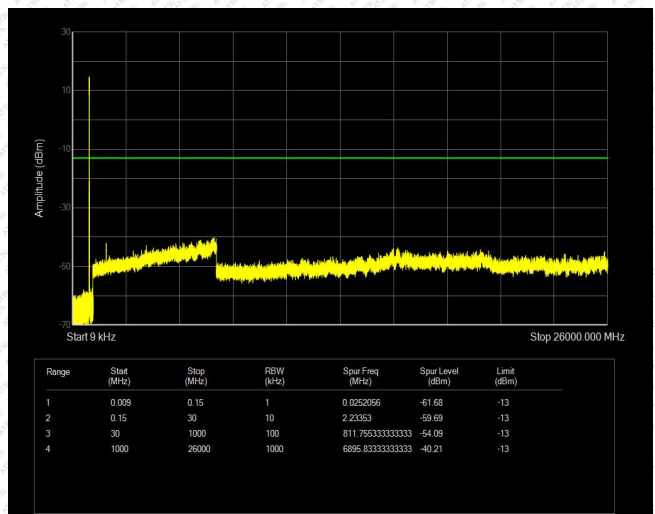
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



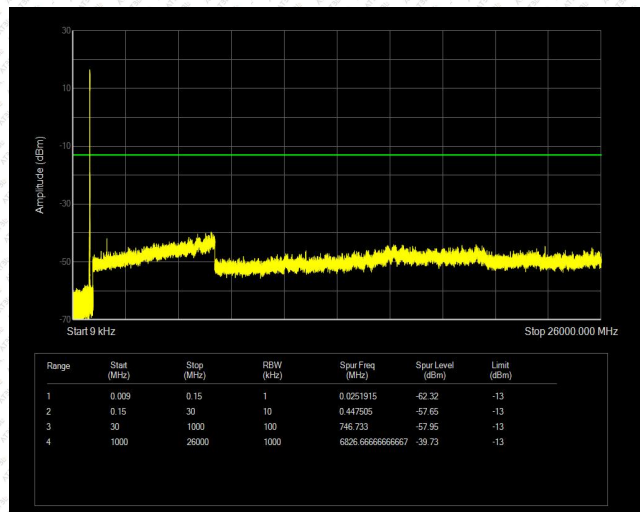
Band5 QAM16 BW=1.4MHz Channel=20643 RB Size=6 Position=#0



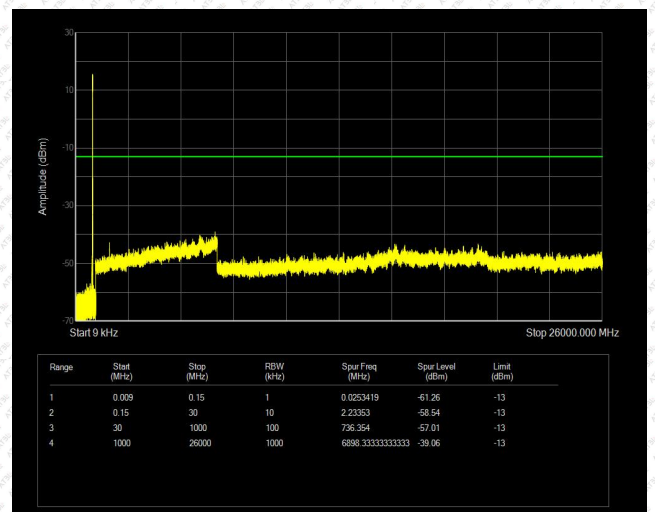
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



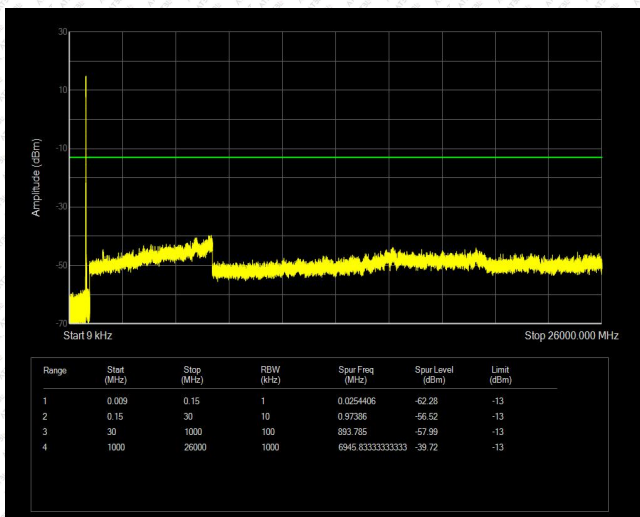
Band5 QAM16 BW=3MHz Channel=20415 RB Size=15 Position=#0



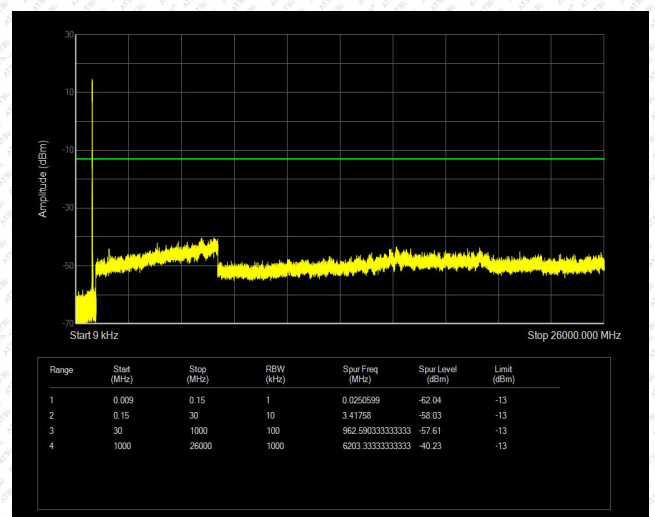
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



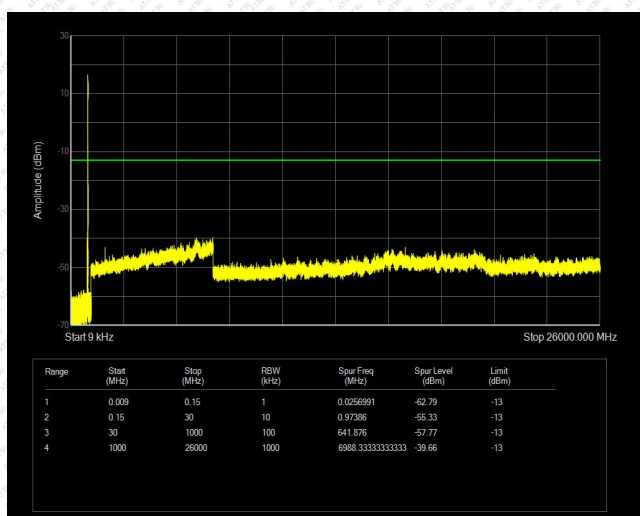
Band5 QAM16 BW=3MHz Channel=20635 RB Size=15 Position=#0



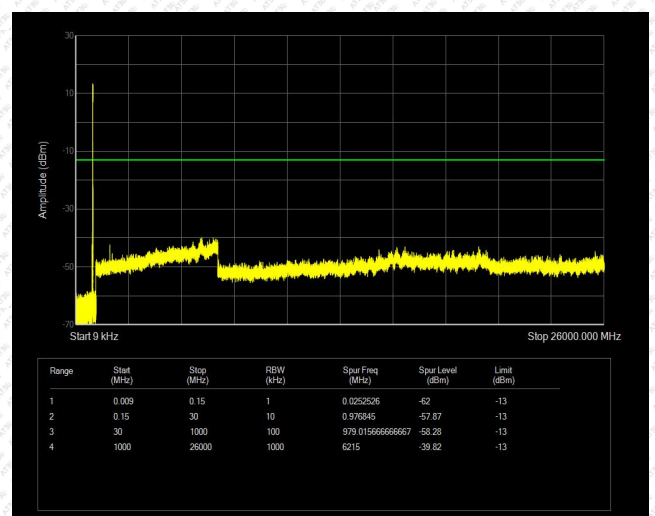
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



Band5 QAM16 BW=5MHz Channel=20425 RB Size=25 Position=#0



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



Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0

*****END OF THE APPENDIX A LTE Band 5*****