

Appendix E : Test Result - n13

1. Conducted Output Power

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	GT - Lc (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
n13	15	5	155900	25@0	DFT_BPSK	22.72	-4.95	17.77	59.84	3000	PASS
n13	15	5	155900	12@6	DFT_BPSK	23.22	-4.95	18.27	67.14	3000	PASS
n13	15	5	155900	1@1	DFT_BPSK	23.21	-4.95	18.26	66.99	3000	PASS
n13	15	5	155900	1@23	DFT_BPSK	23.14	-4.95	18.19	65.92	3000	PASS
n13	15	5	155900	25@0	DFT_QPSK	22.24	-4.95	17.29	53.58	3000	PASS
n13	15	5	155900	12@6	DFT_QPSK	23.25	-4.95	18.30	67.61	3000	PASS
n13	15	5	155900	1@1	DFT_QPSK	23.26	-4.95	18.31	67.76	3000	PASS
n13	15	5	155900	1@23	DFT_QPSK	23.13	-4.95	18.18	65.77	3000	PASS
n13	15	5	155900	25@0	DFT_16QAM	21.23	-4.95	16.28	42.46	3000	PASS
n13	15	5	155900	12@6	DFT_16QAM	22.36	-4.95	17.41	55.08	3000	PASS
n13	15	5	155900	1@1	DFT_16QAM	22.06	-4.95	17.11	51.40	3000	PASS
n13	15	5	155900	1@23	DFT_16QAM	21.90	-4.95	16.95	49.55	3000	PASS
n13	15	5	155900	25@0	DFT_64QAM	20.67	-4.95	15.72	37.33	3000	PASS
n13	15	5	155900	12@6	DFT_64QAM	20.75	-4.95	15.80	38.02	3000	PASS
n13	15	5	155900	1@1	DFT_64QAM	20.49	-4.95	15.54	35.81	3000	PASS
n13	15	5	155900	1@23	DFT_64QAM	20.36	-4.95	15.41	34.75	3000	PASS
n13	15	5	155900	25@0	DFT_256QAM	18.69	-4.95	13.74	23.66	3000	PASS
n13	15	5	155900	12@6	DFT_256QAM	18.82	-4.95	13.87	24.38	3000	PASS
n13	15	5	155900	1@1	DFT_256QAM	19.00	-4.95	14.05	25.41	3000	PASS
n13	15	5	155900	1@23	DFT_256QAM	18.92	-4.95	13.97	24.95	3000	PASS
n13	15	5	155900	25@0	CP_QPSK	20.18	-4.95	15.23	33.34	3000	PASS
n13	15	5	155900	13@6	CP_QPSK	21.81	-4.95	16.86	48.53	3000	PASS
n13	15	5	155900	1@1	CP_QPSK	21.73	-4.95	16.78	47.64	3000	PASS
n13	15	5	155900	1@23	CP_QPSK	21.60	-4.95	16.65	46.24	3000	PASS
n13	15	5	155900	25@0	CP_16QAM	20.24	-4.95	15.29	33.81	3000	PASS
n13	15	5	155900	13@6	CP_16QAM	21.27	-4.95	16.32	42.85	3000	PASS
n13	15	5	155900	1@1	CP_16QAM	21.31	-4.95	16.36	43.25	3000	PASS
n13	15	5	155900	1@23	CP_16QAM	21.19	-4.95	16.24	42.07	3000	PASS
n13	15	5	155900	25@0	CP_64QAM	19.72	-4.95	14.77	29.99	3000	PASS
n13	15	5	155900	13@6	CP_64QAM	19.79	-4.95	14.84	30.48	3000	PASS
n13	15	5	155900	1@1	CP_64QAM	19.78	-4.95	14.83	30.41	3000	PASS
n13	15	5	155900	1@23	CP_64QAM	19.65	-4.95	14.70	29.51	3000	PASS
n13	15	5	155900	25@0	CP_256QAM	16.63	-4.95	11.68	14.72	3000	PASS
n13	15	5	155900	13@6	CP_256QAM	16.67	-4.95	11.72	14.86	3000	PASS

n13	15	5	155900	1@1	CP_256QAM	16.95	-4.95	12.00	15.85	3000	PASS
n13	15	5	155900	1@23	CP_256QAM	16.87	-4.95	11.92	15.56	3000	PASS
n13	15	5	156400	25@0	DFT_BPSK	22.58	-4.95	17.63	57.94	3000	PASS
n13	15	5	156400	12@6	DFT_BPSK	23.15	-4.95	18.20	66.07	3000	PASS
n13	15	5	156400	1@1	DFT_BPSK	23.15	-4.95	18.20	66.07	3000	PASS
n13	15	5	156400	1@23	DFT_BPSK	23.00	-4.95	18.05	63.83	3000	PASS
n13	15	5	156400	25@0	DFT_QPSK	22.16	-4.95	17.21	52.60	3000	PASS
n13	15	5	156400	12@6	DFT_QPSK	23.13	-4.95	18.18	65.77	3000	PASS
n13	15	5	156400	1@1	DFT_QPSK	23.23	-4.95	18.28	67.30	3000	PASS
n13	15	5	156400	1@23	DFT_QPSK	22.99	-4.95	18.04	63.68	3000	PASS
n13	15	5	156400	25@0	DFT_16QAM	21.09	-4.95	16.14	41.11	3000	PASS
n13	15	5	156400	12@6	DFT_16QAM	22.28	-4.95	17.33	54.08	3000	PASS
n13	15	5	156400	1@1	DFT_16QAM	21.95	-4.95	17.00	50.12	3000	PASS
n13	15	5	156400	1@23	DFT_16QAM	21.83	-4.95	16.88	48.75	3000	PASS
n13	15	5	156400	25@0	DFT_64QAM	20.61	-4.95	15.66	36.81	3000	PASS
n13	15	5	156400	12@6	DFT_64QAM	20.73	-4.95	15.78	37.84	3000	PASS
n13	15	5	156400	1@1	DFT_64QAM	20.46	-4.95	15.51	35.56	3000	PASS
n13	15	5	156400	1@23	DFT_64QAM	20.21	-4.95	15.26	33.57	3000	PASS
n13	15	5	156400	25@0	DFT_256QAM	18.54	-4.95	13.59	22.86	3000	PASS
n13	15	5	156400	12@6	DFT_256QAM	18.75	-4.95	13.80	23.99	3000	PASS
n13	15	5	156400	1@1	DFT_256QAM	18.98	-4.95	14.03	25.29	3000	PASS
n13	15	5	156400	1@23	DFT_256QAM	18.79	-4.95	13.84	24.21	3000	PASS
n13	15	5	156400	25@0	CP_QPSK	20.09	-4.95	15.14	32.66	3000	PASS
n13	15	5	156400	13@6	CP_QPSK	21.69	-4.95	16.74	47.21	3000	PASS
n13	15	5	156400	1@1	CP_QPSK	21.67	-4.95	16.72	46.99	3000	PASS
n13	15	5	156400	1@23	CP_QPSK	21.55	-4.95	16.60	45.71	3000	PASS
n13	15	5	156400	25@0	CP_16QAM	20.18	-4.95	15.23	33.34	3000	PASS
n13	15	5	156400	13@6	CP_16QAM	21.18	-4.95	16.23	41.98	3000	PASS
n13	15	5	156400	1@1	CP_16QAM	21.27	-4.95	16.32	42.85	3000	PASS
n13	15	5	156400	1@23	CP_16QAM	21.08	-4.95	16.13	41.02	3000	PASS
n13	15	5	156400	25@0	CP_64QAM	19.60	-4.95	14.65	29.17	3000	PASS
n13	15	5	156400	13@6	CP_64QAM	19.71	-4.95	14.76	29.92	3000	PASS
n13	15	5	156400	1@1	CP_64QAM	19.71	-4.95	14.76	29.92	3000	PASS
n13	15	5	156400	1@23	CP_64QAM	19.55	-4.95	14.60	28.84	3000	PASS
n13	15	5	156400	25@0	CP_256QAM	16.54	-4.95	11.59	14.42	3000	PASS
n13	15	5	156400	13@6	CP_256QAM	16.56	-4.95	11.61	14.49	3000	PASS
n13	15	5	156400	1@1	CP_256QAM	16.91	-4.95	11.96	15.70	3000	PASS
n13	15	5	156400	1@23	CP_256QAM	16.69	-4.95	11.74	14.93	3000	PASS
n13	15	5	156900	25@0	DFT_BPSK	22.51	-4.95	17.56	57.02	3000	PASS
n13	15	5	156900	12@6	DFT_BPSK	23.11	-4.95	18.16	65.46	3000	PASS
n13	15	5	156900	1@1	DFT_BPSK	23.07	-4.95	18.12	64.86	3000	PASS
n13	15	5	156900	1@23	DFT_BPSK	22.89	-4.95	17.94	62.23	3000	PASS
n13	15	5	156900	25@0	DFT_QPSK	22.07	-4.95	17.12	51.52	3000	PASS

n13	15	5	156900	12@6	DFT_QPSK	23.02	-4.95	18.07	64.12	3000	PASS
n13	15	5	156900	1@1	DFT_QPSK	23.04	-4.95	18.09	64.42	3000	PASS
n13	15	5	156900	1@23	DFT_QPSK	22.92	-4.95	17.97	62.66	3000	PASS
n13	15	5	156900	25@0	DFT_16QAM	21.05	-4.95	16.10	40.74	3000	PASS
n13	15	5	156900	12@6	DFT_16QAM	22.13	-4.95	17.18	52.24	3000	PASS
n13	15	5	156900	1@1	DFT_16QAM	21.85	-4.95	16.90	48.98	3000	PASS
n13	15	5	156900	1@23	DFT_16QAM	21.77	-4.95	16.82	48.08	3000	PASS
n13	15	5	156900	25@0	DFT_64QAM	20.50	-4.95	15.55	35.89	3000	PASS
n13	15	5	156900	12@6	DFT_64QAM	20.59	-4.95	15.64	36.64	3000	PASS
n13	15	5	156900	1@1	DFT_64QAM	20.37	-4.95	15.42	34.83	3000	PASS
n13	15	5	156900	1@23	DFT_64QAM	20.23	-4.95	15.28	33.73	3000	PASS
n13	15	5	156900	25@0	DFT_256QAM	18.47	-4.95	13.52	22.49	3000	PASS
n13	15	5	156900	12@6	DFT_256QAM	18.65	-4.95	13.70	23.44	3000	PASS
n13	15	5	156900	1@1	DFT_256QAM	18.77	-4.95	13.82	24.10	3000	PASS
n13	15	5	156900	1@23	DFT_256QAM	18.70	-4.95	13.75	23.71	3000	PASS
n13	15	5	156900	25@0	CP_QPSK	20.06	-4.95	15.11	32.43	3000	PASS
n13	15	5	156900	13@6	CP_QPSK	21.58	-4.95	16.63	46.03	3000	PASS
n13	15	5	156900	1@1	CP_QPSK	21.59	-4.95	16.64	46.13	3000	PASS
n13	15	5	156900	1@23	CP_QPSK	21.48	-4.95	16.53	44.98	3000	PASS
n13	15	5	156900	25@0	CP_16QAM	20.08	-4.95	15.13	32.58	3000	PASS
n13	15	5	156900	13@6	CP_16QAM	21.08	-4.95	16.13	41.02	3000	PASS
n13	15	5	156900	1@1	CP_16QAM	21.15	-4.95	16.20	41.69	3000	PASS
n13	15	5	156900	1@23	CP_16QAM	20.98	-4.95	16.03	40.09	3000	PASS
n13	15	5	156900	25@0	CP_64QAM	19.54	-4.95	14.59	28.77	3000	PASS
n13	15	5	156900	13@6	CP_64QAM	19.62	-4.95	14.67	29.31	3000	PASS
n13	15	5	156900	1@1	CP_64QAM	19.56	-4.95	14.61	28.91	3000	PASS
n13	15	5	156900	1@23	CP_64QAM	19.49	-4.95	14.54	28.44	3000	PASS
n13	15	5	156900	25@0	CP_256QAM	16.44	-4.95	11.49	14.09	3000	PASS
n13	15	5	156900	13@6	CP_256QAM	16.48	-4.95	11.53	14.22	3000	PASS
n13	15	5	156900	1@1	CP_256QAM	16.77	-4.95	11.82	15.21	3000	PASS
n13	15	5	156900	1@23	CP_256QAM	16.70	-4.95	11.75	14.96	3000	PASS
n13	15	10	156400	50@0	DFT_BPSK	22.51	-4.95	17.56	57.02	3000	PASS
n13	15	10	156400	25@12	DFT_BPSK	23.17	-4.95	18.22	66.37	3000	PASS
n13	15	10	156400	1@1	DFT_BPSK	23.21	-4.95	18.26	66.99	3000	PASS
n13	15	10	156400	1@50	DFT_BPSK	22.96	-4.95	18.01	63.24	3000	PASS
n13	15	10	156400	50@0	DFT_QPSK	22.09	-4.95	17.14	51.76	3000	PASS
n13	15	10	156400	25@12	DFT_QPSK	23.18	-4.95	18.23	66.53	3000	PASS
n13	15	10	156400	1@1	DFT_QPSK	23.24	-4.95	18.29	67.45	3000	PASS
n13	15	10	156400	1@50	DFT_QPSK	22.92	-4.95	17.97	62.66	3000	PASS
n13	15	10	156400	50@0	DFT_16QAM	21.08	-4.95	16.13	41.02	3000	PASS
n13	15	10	156400	25@12	DFT_16QAM	22.18	-4.95	17.23	52.84	3000	PASS
n13	15	10	156400	1@1	DFT_16QAM	22.06	-4.95	17.11	51.40	3000	PASS
n13	15	10	156400	1@50	DFT_16QAM	21.78	-4.95	16.83	48.19	3000	PASS

n13	15	10	156400	50@0	DFT_64QAM	20.51	-4.95	15.56	35.97	3000	PASS
n13	15	10	156400	25@12	DFT_64QAM	20.62	-4.95	15.67	36.90	3000	PASS
n13	15	10	156400	1@1	DFT_64QAM	20.48	-4.95	15.53	35.73	3000	PASS
n13	15	10	156400	1@50	DFT_64QAM	20.19	-4.95	15.24	33.42	3000	PASS
n13	15	10	156400	50@0	DFT_256QAM	18.49	-4.95	13.54	22.59	3000	PASS
n13	15	10	156400	25@12	DFT_256QAM	18.56	-4.95	13.61	22.96	3000	PASS
n13	15	10	156400	1@1	DFT_256QAM	19.00	-4.95	14.05	25.41	3000	PASS
n13	15	10	156400	1@50	DFT_256QAM	18.70	-4.95	13.75	23.71	3000	PASS
n13	15	10	156400	52@0	CP_QPSK	20.00	-4.95	15.05	31.99	3000	PASS
n13	15	10	156400	26@13	CP_QPSK	21.73	-4.95	16.78	47.64	3000	PASS
n13	15	10	156400	1@1	CP_QPSK	21.82	-4.95	16.87	48.64	3000	PASS
n13	15	10	156400	1@50	CP_QPSK	21.45	-4.95	16.50	44.67	3000	PASS
n13	15	10	156400	52@0	CP_16QAM	20.02	-4.95	15.07	32.14	3000	PASS
n13	15	10	156400	26@13	CP_16QAM	21.14	-4.95	16.19	41.59	3000	PASS
n13	15	10	156400	1@1	CP_16QAM	21.30	-4.95	16.35	43.15	3000	PASS
n13	15	10	156400	1@50	CP_16QAM	21.01	-4.95	16.06	40.36	3000	PASS
n13	15	10	156400	52@0	CP_64QAM	19.55	-4.95	14.60	28.84	3000	PASS
n13	15	10	156400	26@13	CP_64QAM	19.67	-4.95	14.72	29.65	3000	PASS
n13	15	10	156400	1@1	CP_64QAM	19.79	-4.95	14.84	30.48	3000	PASS
n13	15	10	156400	1@50	CP_64QAM	19.51	-4.95	14.56	28.58	3000	PASS
n13	15	10	156400	52@0	CP_256QAM	16.44	-4.95	11.49	14.09	3000	PASS
n13	15	10	156400	26@13	CP_256QAM	16.56	-4.95	11.61	14.49	3000	PASS
n13	15	10	156400	1@1	CP_256QAM	16.98	-4.95	12.03	15.96	3000	PASS
n13	15	10	156400	1@50	CP_256QAM	16.66	-4.95	11.71	14.83	3000	PASS

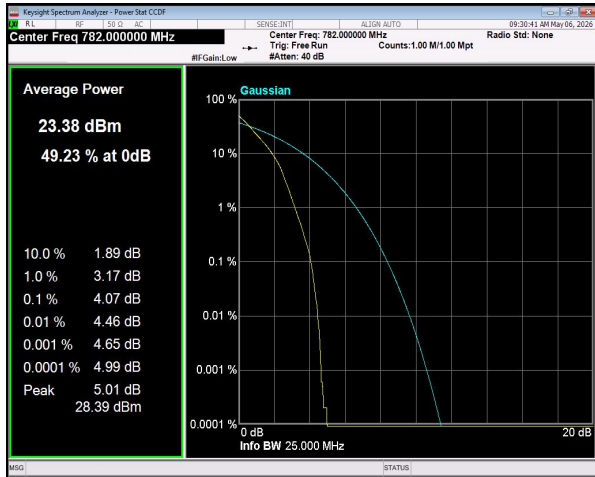
2. Frequency Stability

Temperature (°C)	Voltage (V)	Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Verdict
20(Ref.)	7.74	n13	15	10	156400	50@0	DFT_BPSK	-6.4	-0.00818	PASS
20	6	n13	15	10	156400	50@0	DFT_BPSK	-4.09	-0.00523	PASS
20	8.9	n13	15	10	156400	50@0	DFT_BPSK	-3.4	-0.00435	PASS
-30	7.74	n13	15	10	156400	50@0	DFT_BPSK	-6.4	-0.00818	PASS
-20	7.74	n13	15	10	156400	50@0	DFT_BPSK	-4.7	-0.00601	PASS
-10	7.74	n13	15	10	156400	50@0	DFT_BPSK	-5.9	-0.00754	PASS
0	7.74	n13	15	10	156400	50@0	DFT_BPSK	-5.5	-0.00703	PASS
10	7.74	n13	15	10	156400	50@0	DFT_BPSK	-7.1	-0.00908	PASS
30	7.74	n13	15	10	156400	50@0	DFT_BPSK	-9.6	-0.01228	PASS
40	7.74	n13	15	10	156400	50@0	DFT_BPSK	-7.5	-0.00959	PASS
50	7.74	n13	15	10	156400	50@0	DFT_BPSK	-3	-0.00384	PASS

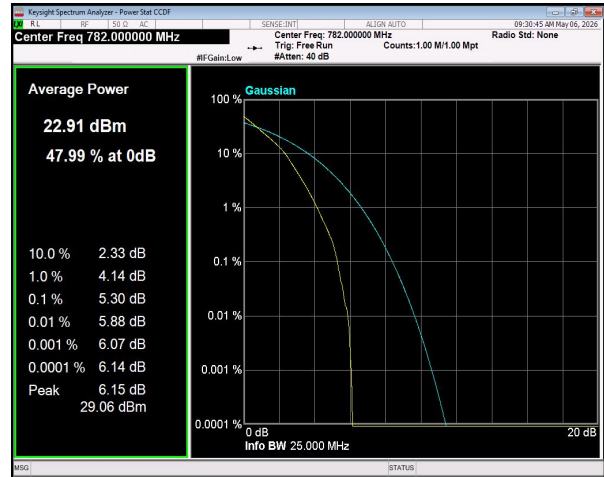
Note: The frequency fundamental emissions stay within the authorized frequency block.

3. Peak-to-average Ratio

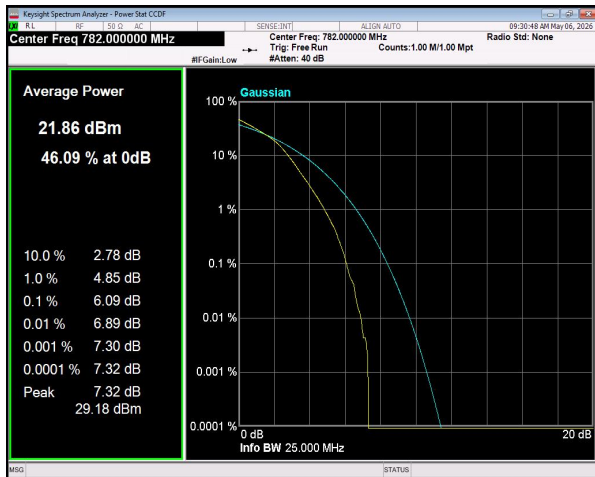
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	High Limit (dB)	Verdict
n13	15	10	156400	50@0	DFT_BPSK	4.07	13	PASS
n13	15	10	156400	50@0	DFT_QPSK	5.30	13	PASS
n13	15	10	156400	50@0	DFT_16QAM	6.09	13	PASS
n13	15	10	156400	50@0	DFT_64QAM	6.27	13	PASS
n13	15	10	156400	50@0	DFT_256QAM	6.42	13	PASS



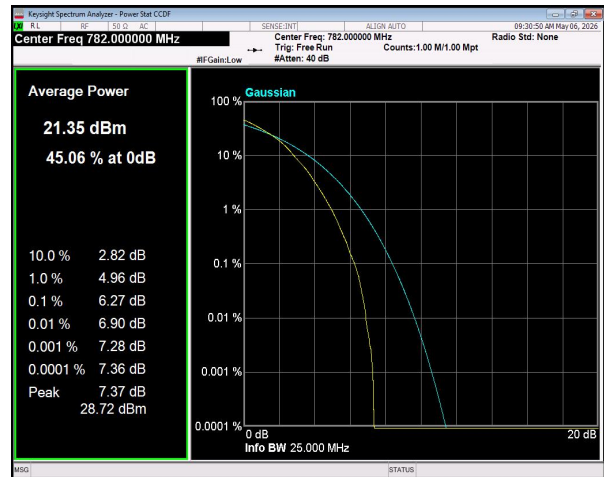
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



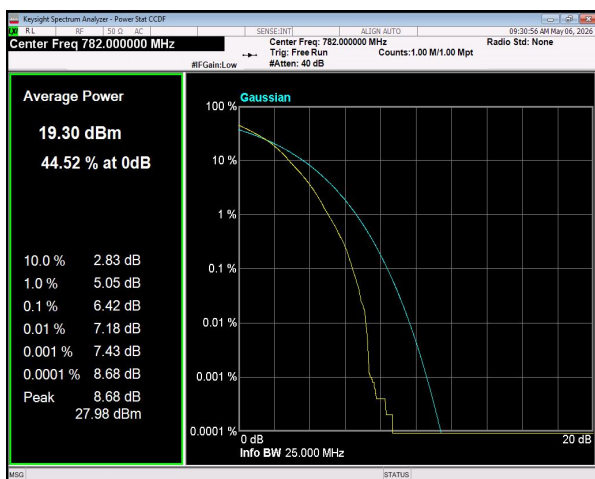
n13 SCS=15kHz DFT_QPSK BW=10MHz Channel=156400
RB=50@0



n13 SCS=15kHz DFT_16QAM BW=10MHz Channel=156400
RB=50@0



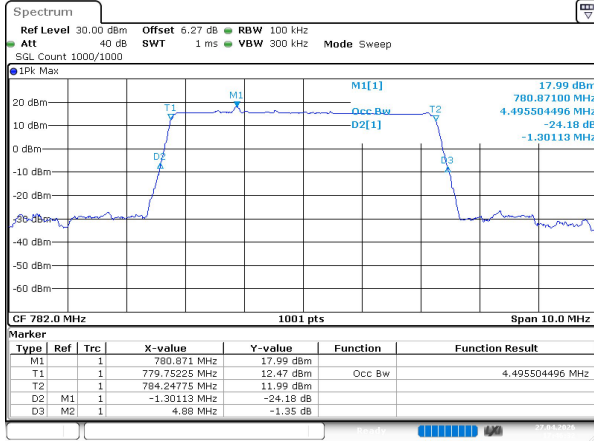
n13 SCS=15kHz DFT_64QAM BW=10MHz Channel=156400
RB=50@0



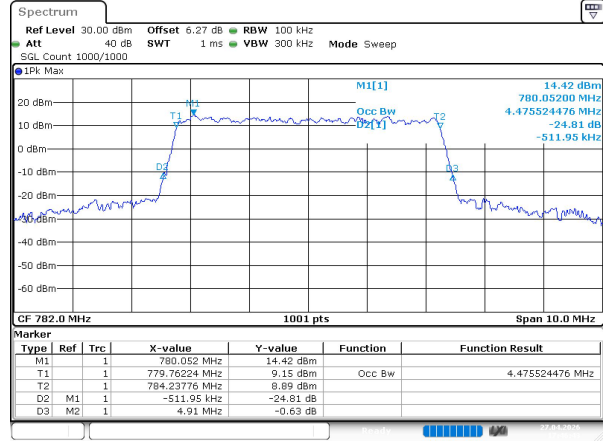
n13 SCS=15kHz DFT_256QAM BW=10MHz Channel=156400
RB=50@0

4. Occupied Bandwidth

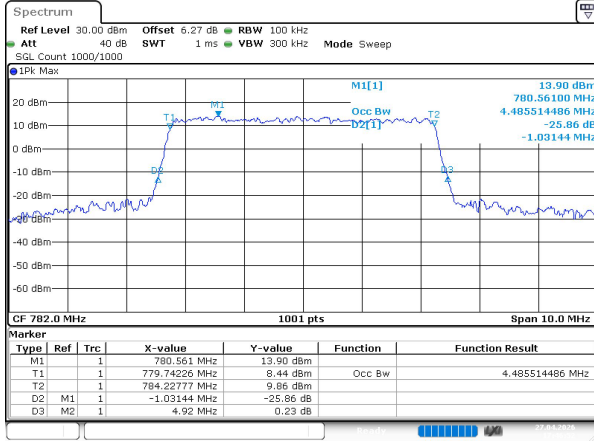
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	UL Frequency (MHz)	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n13	15	5	156400	782	25@0	DFT_BPSK	4.496	4.880	PASS
n13	15	5	156400	782	25@0	CP_QPSK	4.476	4.910	PASS
n13	15	5	156400	782	25@0	CP_16QAM	4.486	4.920	PASS
n13	15	5	156400	782	25@0	CP_64QAM	4.505	4.910	PASS
n13	15	5	156400	782	25@0	CP_256QAM	4.466	4.880	PASS
n13	15	10	156400	782	50@0	DFT_BPSK	8.951	9.520	PASS
n13	15	10	156400	782	52@0	CP_QPSK	9.291	9.900	PASS
n13	15	10	156400	782	52@0	CP_16QAM	9.271	9.900	PASS
n13	15	10	156400	782	52@0	CP_64QAM	9.271	9.900	PASS
n13	15	10	156400	782	52@0	CP_256QAM	9.271	9.900	PASS



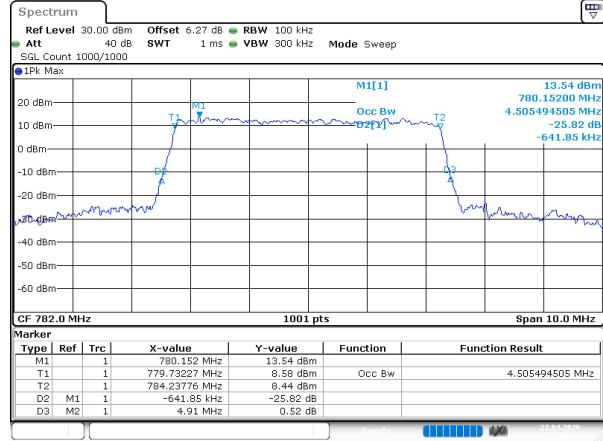
n13 SCS=15kHz DFT_BPSK BW=5MHz Channel=156400
RB=25@0



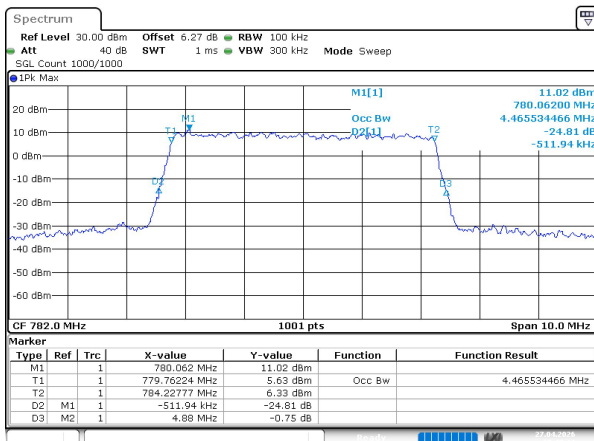
n13 SCS=15kHz CP_QPSK BW=5MHz Channel=156400
RB=25@0



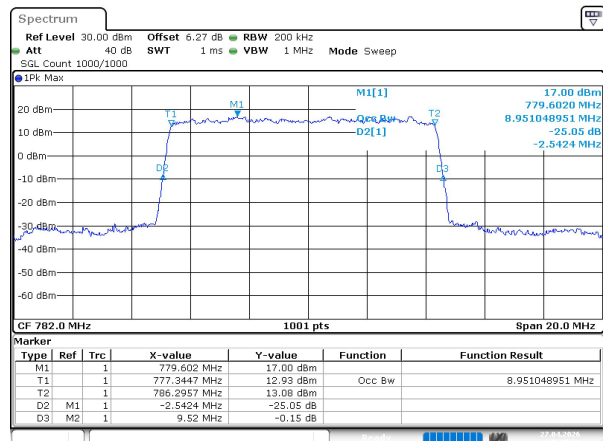
n13 SCS=15kHz CP_16QAM BW=5MHz Channel=156400
RB=25@0



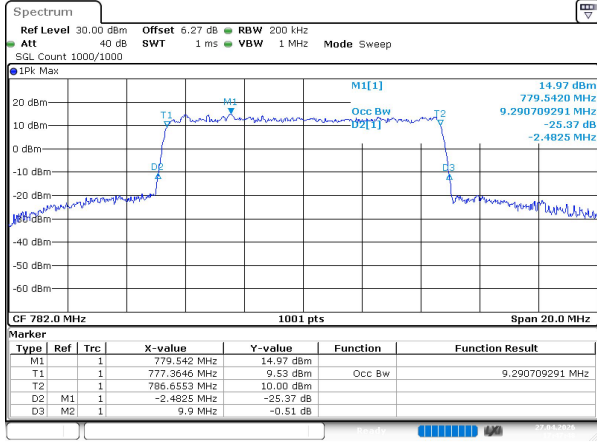
n13 SCS=15kHz CP_64QAM BW=5MHz Channel=156400
RB=25@0



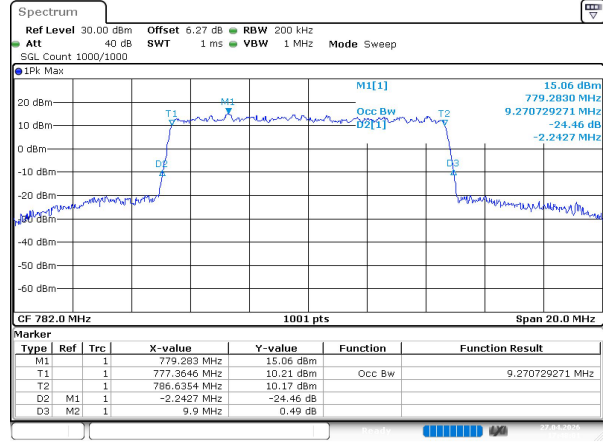
n13 SCS=15kHz CP_256QAM BW=5MHz Channel=156400
RB=25@0



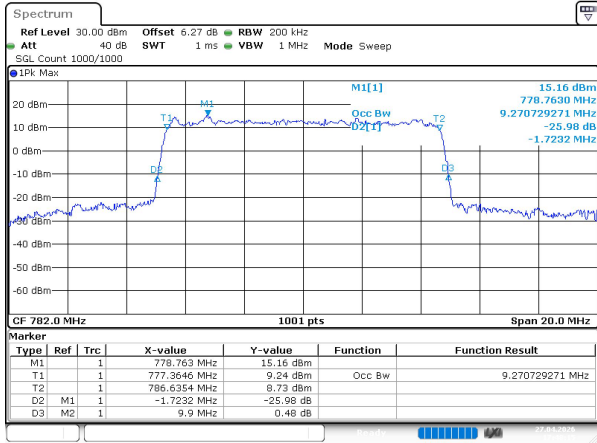
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



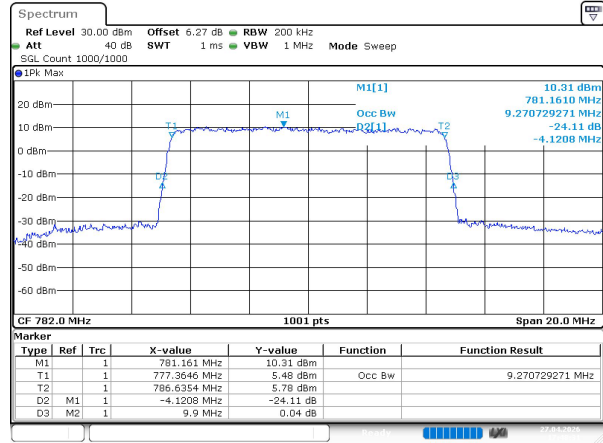
n13 SCS=15kHz CP_QPSK BW=10MHz Channel=156400
RB=52@0



n13 SCS=15kHz CP_16QAM BW=10MHz Channel=156400
RB=52@0

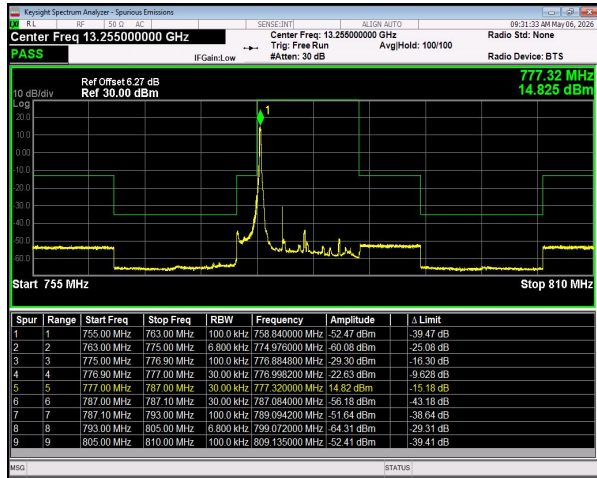


n13 SCS=15kHz CP_64QAM BW=10MHz Channel=156400
RB=52@0



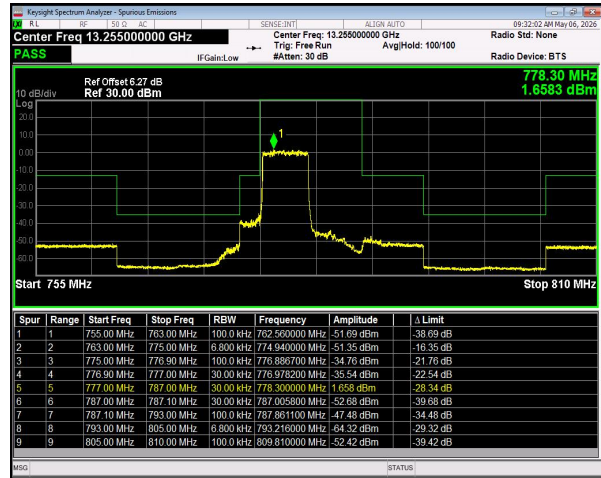
n13 SCS=15kHz CP_256QAM BW=10MHz Channel=156400
RB=52@0

5. Conducted Band Edge



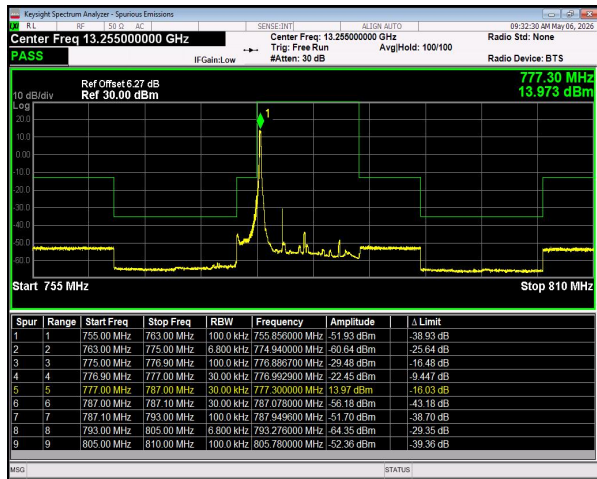
n13 SCS=15kHz DFT_BPSK BW=5MHz LowChannel=155900

RB=1@0



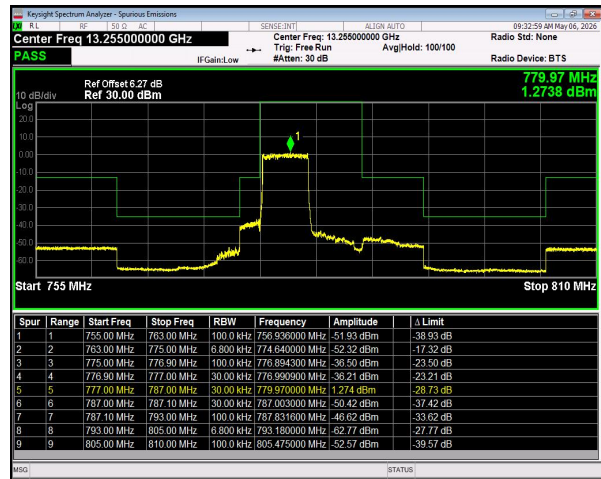
n13 SCS=15kHz DFT_BPSK BW=5MHz LowChannel=155900

RB=25@0



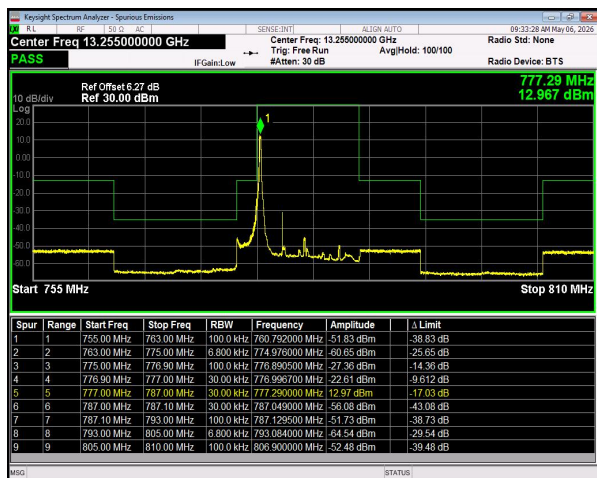
n13 SCS=15kHz DFT_QPSK BW=5MHz LowChannel=155900

RB=1@0



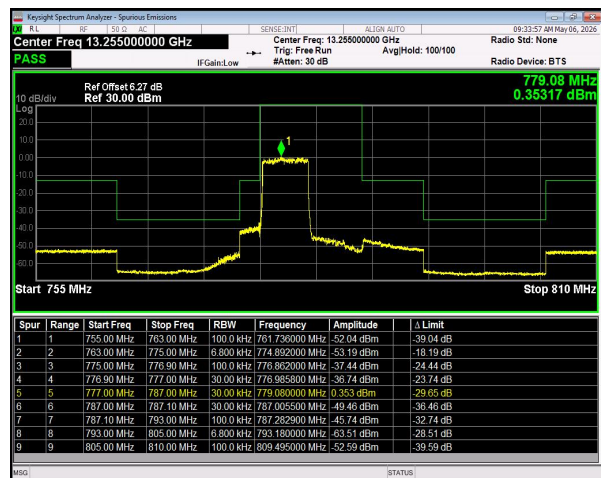
n13 SCS=15kHz DFT_QPSK BW=5MHz LowChannel=155900

RB=25@0



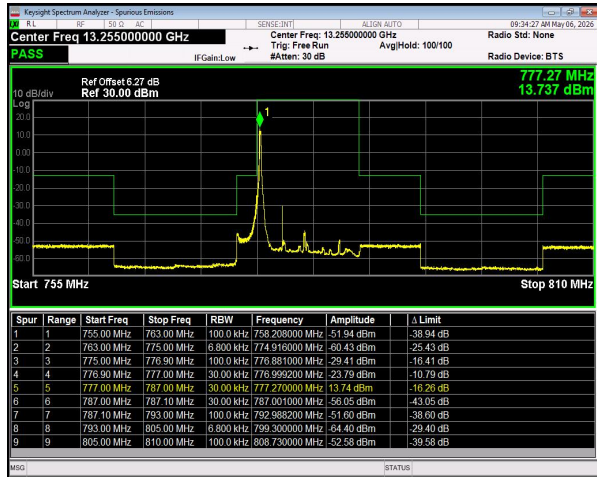
n13 SCS=15kHz DFT_16QAM BW=5MHz LowChannel=155900

RB=1@0

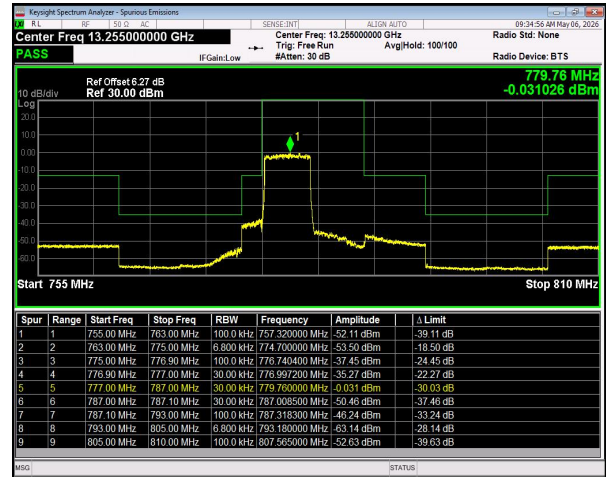


n13 SCS=15kHz DFT_16QAM BW=5MHz LowChannel=155900

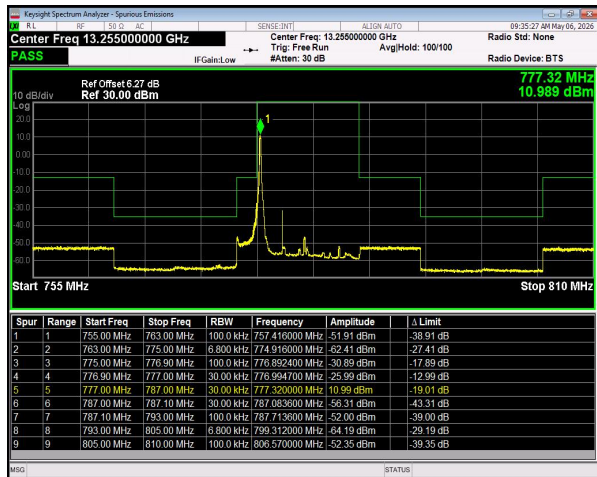
RB=25@0



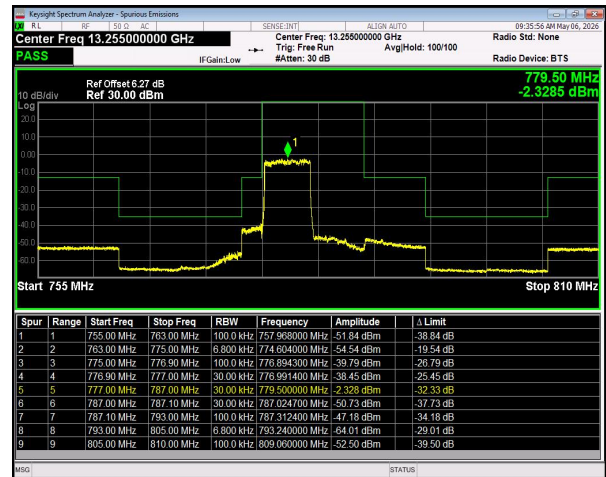
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=1@0



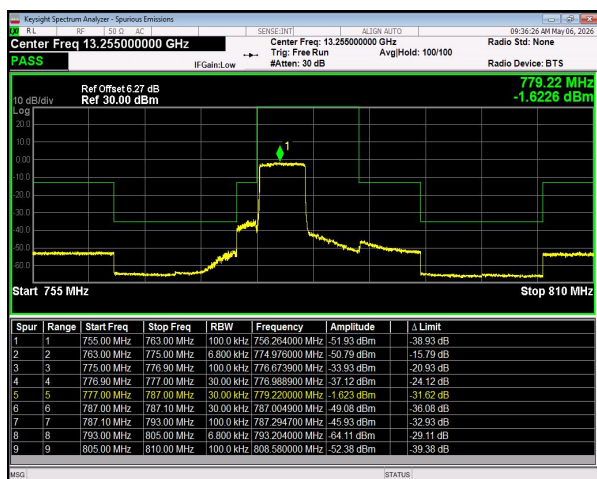
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=25@0



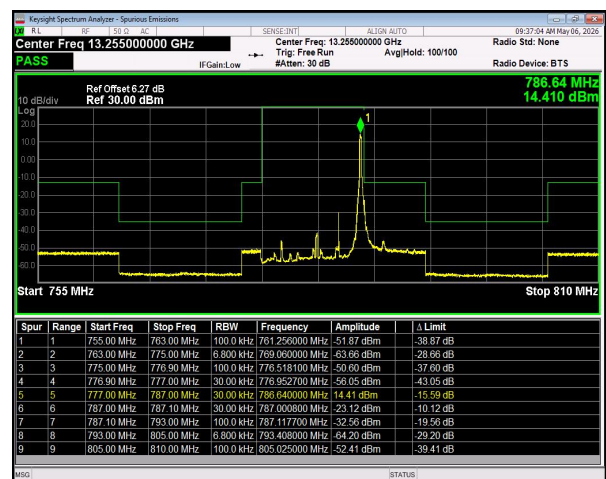
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=1@0



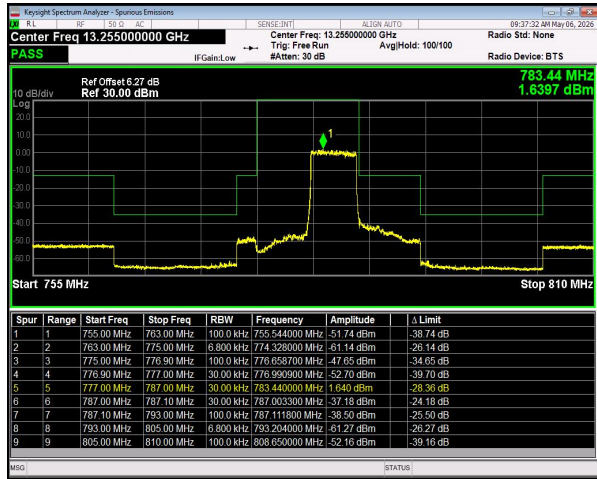
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=25@0



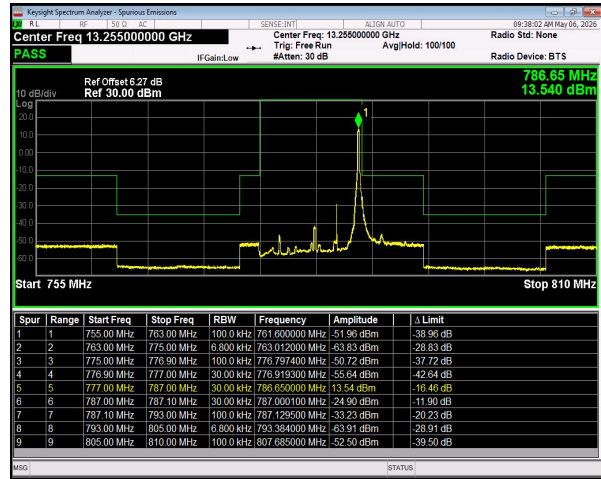
n13 SCS=15kHz CP_QPSK BW=5MHz LowChannel=155900
RB=25@0



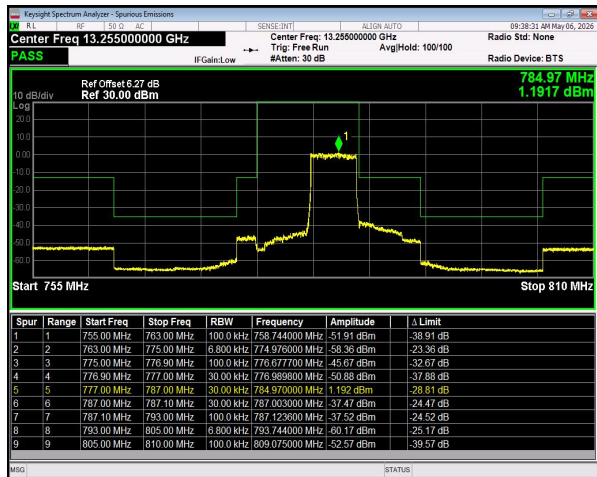
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=1@24



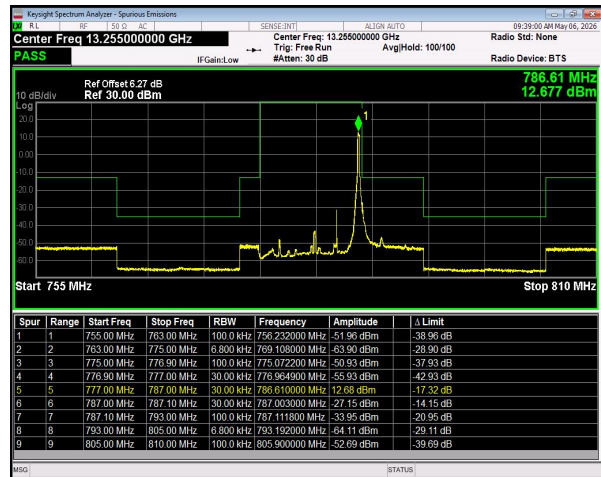
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=25@0



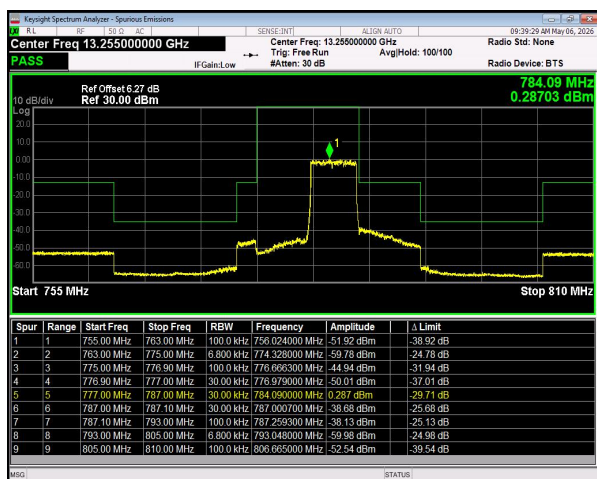
n13 SCS=15kHz DFT_QPSK BW=5MHz HighChannel=156900
RB=1@24



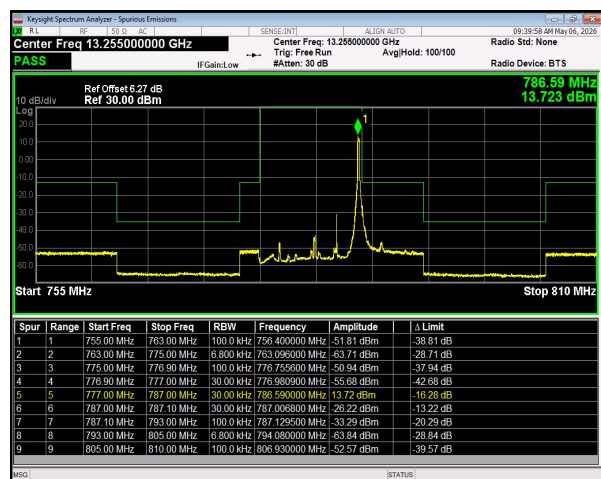
n13 SCS=15kHz DFT_QPSK BW=5MHz HighChannel=156900
RB=25@0



n13 SCS=15kHz DFT_16QAM BW=5MHz HighChannel=156900
RB=1@24



n13 SCS=15kHz DFT_16QAM BW=5MHz HighChannel=156900
RB=25@0



n13 SCS=15kHz DFT_64QAM BW=5MHz HighChannel=156900
RB=1@24