

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	21.23	-6.15	15.08	32.21	3000	PASS
n13	15	5	155900	12@6	DFT_BPSK	21.70	-6.15	15.55	35.89	3000	PASS
n13	15	5	155900	1@1	DFT_BPSK	21.54	-6.15	15.39	34.59	3000	PASS
n13	15	5	155900	1@23	DFT_BPSK	21.63	-6.15	15.48	35.32	3000	PASS
n13	15	5	155900	25@0	DFT_QPSK	20.75	-6.15	14.60	28.84	3000	PASS
n13	15	5	155900	12@6	DFT_QPSK	21.70	-6.15	15.55	35.89	3000	PASS
n13	15	5	155900	1@1	DFT_QPSK	21.48	-6.15	15.33	34.12	3000	PASS
n13	15	5	155900	1@23	DFT_QPSK	21.63	-6.15	15.48	35.32	3000	PASS
n13	15	5	155900	25@0	DFT_16QAM	19.72	-6.15	13.57	22.75	3000	PASS
n13	15	5	155900	12@6	DFT_16QAM	20.72	-6.15	14.57	28.64	3000	PASS
n13	15	5	155900	1@1	DFT_16QAM	20.67	-6.15	14.52	28.31	3000	PASS
n13	15	5	155900	1@23	DFT_16QAM	20.75	-6.15	14.60	28.84	3000	PASS
n13	15	5	155900	25@0	DFT_64QAM	19.24	-6.15	13.09	20.37	3000	PASS
n13	15	5	155900	12@6	DFT_64QAM	19.22	-6.15	13.07	20.28	3000	PASS
n13	15	5	155900	1@1	DFT_64QAM	19.14	-6.15	12.99	19.91	3000	PASS
n13	15	5	155900	1@23	DFT_64QAM	19.24	-6.15	13.09	20.37	3000	PASS
n13	15	5	155900	25@0	DFT_256QAM	17.14	-6.15	10.99	12.56	3000	PASS
n13	15	5	155900	12@6	DFT_256QAM	17.23	-6.15	11.08	12.82	3000	PASS
n13	15	5	155900	1@1	DFT_256QAM	16.99	-6.15	10.84	12.13	3000	PASS
n13	15	5	155900	1@23	DFT_256QAM	17.12	-6.15	10.97	12.50	3000	PASS
n13	15	5	155900	25@0	CP_QPSK	18.71	-6.15	12.56	18.03	3000	PASS
n13	15	5	155900	13@6	CP_QPSK	20.15	-6.15	14.00	25.12	3000	PASS
n13	15	5	155900	1@1	CP_QPSK	20.00	-6.15	13.85	24.27	3000	PASS
n13	15	5	155900	1@23	CP_QPSK	20.16	-6.15	14.01	25.18	3000	PASS
n13	15	5	155900	25@0	CP_16QAM	18.79	-6.15	12.64	18.37	3000	PASS
n13	15	5	155900	13@6	CP_16QAM	19.77	-6.15	13.62	23.01	3000	PASS
n13	15	5	155900	1@1	CP_16QAM	19.78	-6.15	13.63	23.07	3000	PASS
n13	15	5	155900	1@23	CP_16QAM	19.94	-6.15	13.79	23.93	3000	PASS
n13	15	5	155900	25@0	CP_64QAM	18.21	-6.15	12.06	16.07	3000	PASS
n13	15	5	155900	13@6	CP_64QAM	18.18	-6.15	12.03	15.96	3000	PASS
n13	15	5	155900	1@1	CP_64QAM	17.98	-6.15	11.83	15.24	3000	PASS
n13	15	5	155900	1@23	CP_64QAM	18.12	-6.15	11.97	15.74	3000	PASS
n13	15	5	155900	25@0	CP_256QAM	15.27	-6.15	9.12	8.17	3000	PASS
n13	15	5	155900	13@6	CP_256QAM	15.33	-6.15	9.18	8.28	3000	PASS

n13	15	5	155900	1@1	CP_256QAM	15.30	-6.15	9.15	8.22	3000	PASS
n13	15	5	155900	1@23	CP_256QAM	15.39	-6.15	9.24	8.39	3000	PASS
n13	15	5	156400	25@0	DFT_BPSK	21.28	-6.15	15.13	32.58	3000	PASS
n13	15	5	156400	12@6	DFT_BPSK	21.74	-6.15	15.59	36.22	3000	PASS
n13	15	5	156400	1@1	DFT_BPSK	21.58	-6.15	15.43	34.91	3000	PASS
n13	15	5	156400	1@23	DFT_BPSK	21.75	-6.15	15.60	36.31	3000	PASS
n13	15	5	156400	25@0	DFT_QPSK	20.79	-6.15	14.64	29.11	3000	PASS
n13	15	5	156400	12@6	DFT_QPSK	21.76	-6.15	15.61	36.39	3000	PASS
n13	15	5	156400	1@1	DFT_QPSK	21.59	-6.15	15.44	34.99	3000	PASS
n13	15	5	156400	1@23	DFT_QPSK	21.70	-6.15	15.55	35.89	3000	PASS
n13	15	5	156400	25@0	DFT_16QAM	19.75	-6.15	13.60	22.91	3000	PASS
n13	15	5	156400	12@6	DFT_16QAM	20.74	-6.15	14.59	28.77	3000	PASS
n13	15	5	156400	1@1	DFT_16QAM	20.74	-6.15	14.59	28.77	3000	PASS
n13	15	5	156400	1@23	DFT_16QAM	20.83	-6.15	14.68	29.38	3000	PASS
n13	15	5	156400	25@0	DFT_64QAM	19.29	-6.15	13.14	20.61	3000	PASS
n13	15	5	156400	12@6	DFT_64QAM	19.28	-6.15	13.13	20.56	3000	PASS
n13	15	5	156400	1@1	DFT_64QAM	19.27	-6.15	13.12	20.51	3000	PASS
n13	15	5	156400	1@23	DFT_64QAM	19.34	-6.15	13.19	20.84	3000	PASS
n13	15	5	156400	25@0	DFT_256QAM	17.20	-6.15	11.05	12.74	3000	PASS
n13	15	5	156400	12@6	DFT_256QAM	17.30	-6.15	11.15	13.03	3000	PASS
n13	15	5	156400	1@1	DFT_256QAM	17.10	-6.15	10.95	12.45	3000	PASS
n13	15	5	156400	1@23	DFT_256QAM	17.18	-6.15	11.03	12.68	3000	PASS
n13	15	5	156400	25@0	CP_QPSK	18.79	-6.15	12.64	18.37	3000	PASS
n13	15	5	156400	13@6	CP_QPSK	20.22	-6.15	14.07	25.53	3000	PASS
n13	15	5	156400	1@1	CP_QPSK	20.11	-6.15	13.96	24.89	3000	PASS
n13	15	5	156400	1@23	CP_QPSK	20.22	-6.15	14.07	25.53	3000	PASS
n13	15	5	156400	25@0	CP_16QAM	18.85	-6.15	12.70	18.62	3000	PASS
n13	15	5	156400	13@6	CP_16QAM	19.81	-6.15	13.66	23.23	3000	PASS
n13	15	5	156400	1@1	CP_16QAM	19.90	-6.15	13.75	23.71	3000	PASS
n13	15	5	156400	1@23	CP_16QAM	20.00	-6.15	13.85	24.27	3000	PASS
n13	15	5	156400	25@0	CP_64QAM	18.30	-6.15	12.15	16.41	3000	PASS
n13	15	5	156400	13@6	CP_64QAM	18.25	-6.15	12.10	16.22	3000	PASS
n13	15	5	156400	1@1	CP_64QAM	18.09	-6.15	11.94	15.63	3000	PASS
n13	15	5	156400	1@23	CP_64QAM	18.16	-6.15	12.01	15.89	3000	PASS
n13	15	5	156400	25@0	CP_256QAM	15.35	-6.15	9.20	8.32	3000	PASS
n13	15	5	156400	13@6	CP_256QAM	15.36	-6.15	9.21	8.34	3000	PASS
n13	15	5	156400	1@1	CP_256QAM	15.35	-6.15	9.20	8.32	3000	PASS
n13	15	5	156400	1@23	CP_256QAM	15.46	-6.15	9.31	8.53	3000	PASS
n13	15	5	156900	25@0	DFT_BPSK	21.29	-6.15	15.14	32.66	3000	PASS
n13	15	5	156900	12@6	DFT_BPSK	21.79	-6.15	15.64	36.64	3000	PASS
n13	15	5	156900	1@1	DFT_BPSK	21.72	-6.15	15.57	36.06	3000	PASS
n13	15	5	156900	1@23	DFT_BPSK	21.69	-6.15	15.54	35.81	3000	PASS
n13	15	5	156900	25@0	DFT_QPSK	20.82	-6.15	14.67	29.31	3000	PASS

n13	15	5	156900	12@6	DFT_QPSK	21.80	-6.15	15.65	36.73	3000	PASS
n13	15	5	156900	1@1	DFT_QPSK	21.67	-6.15	15.52	35.65	3000	PASS
n13	15	5	156900	1@23	DFT_QPSK	21.70	-6.15	15.55	35.89	3000	PASS
n13	15	5	156900	25@0	DFT_16QAM	19.78	-6.15	13.63	23.07	3000	PASS
n13	15	5	156900	12@6	DFT_16QAM	20.78	-6.15	14.63	29.04	3000	PASS
n13	15	5	156900	1@1	DFT_16QAM	20.85	-6.15	14.70	29.51	3000	PASS
n13	15	5	156900	1@23	DFT_16QAM	20.81	-6.15	14.66	29.24	3000	PASS
n13	15	5	156900	25@0	DFT_64QAM	19.33	-6.15	13.18	20.80	3000	PASS
n13	15	5	156900	12@6	DFT_64QAM	19.32	-6.15	13.17	20.75	3000	PASS
n13	15	5	156900	1@1	DFT_64QAM	19.32	-6.15	13.17	20.75	3000	PASS
n13	15	5	156900	1@23	DFT_64QAM	19.34	-6.15	13.19	20.84	3000	PASS
n13	15	5	156900	25@0	DFT_256QAM	17.24	-6.15	11.09	12.85	3000	PASS
n13	15	5	156900	12@6	DFT_256QAM	17.32	-6.15	11.17	13.09	3000	PASS
n13	15	5	156900	1@1	DFT_256QAM	17.18	-6.15	11.03	12.68	3000	PASS
n13	15	5	156900	1@23	DFT_256QAM	17.16	-6.15	11.01	12.62	3000	PASS
n13	15	5	156900	25@0	CP_QPSK	18.80	-6.15	12.65	18.41	3000	PASS
n13	15	5	156900	13@6	CP_QPSK	20.25	-6.15	14.10	25.70	3000	PASS
n13	15	5	156900	1@1	CP_QPSK	20.22	-6.15	14.07	25.53	3000	PASS
n13	15	5	156900	1@23	CP_QPSK	20.22	-6.15	14.07	25.53	3000	PASS
n13	15	5	156900	25@0	CP_16QAM	18.86	-6.15	12.71	18.66	3000	PASS
n13	15	5	156900	13@6	CP_16QAM	19.90	-6.15	13.75	23.71	3000	PASS
n13	15	5	156900	1@1	CP_16QAM	20.00	-6.15	13.85	24.27	3000	PASS
n13	15	5	156900	1@23	CP_16QAM	20.02	-6.15	13.87	24.38	3000	PASS
n13	15	5	156900	25@0	CP_64QAM	18.31	-6.15	12.16	16.44	3000	PASS
n13	15	5	156900	13@6	CP_64QAM	18.24	-6.15	12.09	16.18	3000	PASS
n13	15	5	156900	1@1	CP_64QAM	18.15	-6.15	12.00	15.85	3000	PASS
n13	15	5	156900	1@23	CP_64QAM	18.18	-6.15	12.03	15.96	3000	PASS
n13	15	5	156900	25@0	CP_256QAM	15.37	-6.15	9.22	8.36	3000	PASS
n13	15	5	156900	13@6	CP_256QAM	15.37	-6.15	9.22	8.36	3000	PASS
n13	15	5	156900	1@1	CP_256QAM	15.45	-6.15	9.30	8.51	3000	PASS
n13	15	5	156900	1@23	CP_256QAM	15.41	-6.15	9.26	8.43	3000	PASS
n13	15	10	156400	50@0	DFT_BPSK	21.24	-6.15	15.09	32.28	3000	PASS
n13	15	10	156400	25@12	DFT_BPSK	21.69	-6.15	15.54	35.81	3000	PASS
n13	15	10	156400	1@1	DFT_BPSK	21.60	-6.15	15.45	35.08	3000	PASS
n13	15	10	156400	1@50	DFT_BPSK	21.74	-6.15	15.59	36.22	3000	PASS
n13	15	10	156400	50@0	DFT_QPSK	20.74	-6.15	14.59	28.77	3000	PASS
n13	15	10	156400	25@12	DFT_QPSK	21.67	-6.15	15.52	35.65	3000	PASS
n13	15	10	156400	1@1	DFT_QPSK	21.53	-6.15	15.38	34.51	3000	PASS
n13	15	10	156400	1@50	DFT_QPSK	21.73	-6.15	15.58	36.14	3000	PASS
n13	15	10	156400	50@0	DFT_16QAM	19.73	-6.15	13.58	22.80	3000	PASS
n13	15	10	156400	25@12	DFT_16QAM	20.75	-6.15	14.60	28.84	3000	PASS
n13	15	10	156400	1@1	DFT_16QAM	20.70	-6.15	14.55	28.51	3000	PASS
n13	15	10	156400	1@50	DFT_16QAM	20.85	-6.15	14.70	29.51	3000	PASS

n13	15	10	156400	50@0	DFT_64QAM	19.24	-6.15	13.09	20.37	3000	PASS
n13	15	10	156400	25@12	DFT_64QAM	19.27	-6.15	13.12	20.51	3000	PASS
n13	15	10	156400	1@1	DFT_64QAM	19.22	-6.15	13.07	20.28	3000	PASS
n13	15	10	156400	1@50	DFT_64QAM	19.41	-6.15	13.26	21.18	3000	PASS
n13	15	10	156400	50@0	DFT_256QAM	17.16	-6.15	11.01	12.62	3000	PASS
n13	15	10	156400	25@12	DFT_256QAM	17.21	-6.15	11.06	12.76	3000	PASS
n13	15	10	156400	1@1	DFT_256QAM	17.09	-6.15	10.94	12.42	3000	PASS
n13	15	10	156400	1@50	DFT_256QAM	17.21	-6.15	11.06	12.76	3000	PASS
n13	15	10	156400	52@0	CP_QPSK	18.72	-6.15	12.57	18.07	3000	PASS
n13	15	10	156400	26@13	CP_QPSK	20.21	-6.15	14.06	25.47	3000	PASS
n13	15	10	156400	1@1	CP_QPSK	20.05	-6.15	13.90	24.55	3000	PASS
n13	15	10	156400	1@50	CP_QPSK	20.22	-6.15	14.07	25.53	3000	PASS
n13	15	10	156400	52@0	CP_16QAM	18.74	-6.15	12.59	18.16	3000	PASS
n13	15	10	156400	26@13	CP_16QAM	19.77	-6.15	13.62	23.01	3000	PASS
n13	15	10	156400	1@1	CP_16QAM	19.84	-6.15	13.69	23.39	3000	PASS
n13	15	10	156400	1@50	CP_16QAM	20.02	-6.15	13.87	24.38	3000	PASS
n13	15	10	156400	52@0	CP_64QAM	18.22	-6.15	12.07	16.11	3000	PASS
n13	15	10	156400	26@13	CP_64QAM	18.26	-6.15	12.11	16.26	3000	PASS
n13	15	10	156400	1@1	CP_64QAM	18.02	-6.15	11.87	15.38	3000	PASS
n13	15	10	156400	1@50	CP_64QAM	18.22	-6.15	12.07	16.11	3000	PASS
n13	15	10	156400	52@0	CP_256QAM	15.28	-6.15	9.13	8.18	3000	PASS
n13	15	10	156400	26@13	CP_256QAM	15.30	-6.15	9.15	8.22	3000	PASS
n13	15	10	156400	1@1	CP_256QAM	15.37	-6.15	9.22	8.36	3000	PASS
n13	15	10	156400	1@50	CP_256QAM	15.46	-6.15	9.31	8.53	3000	PASS

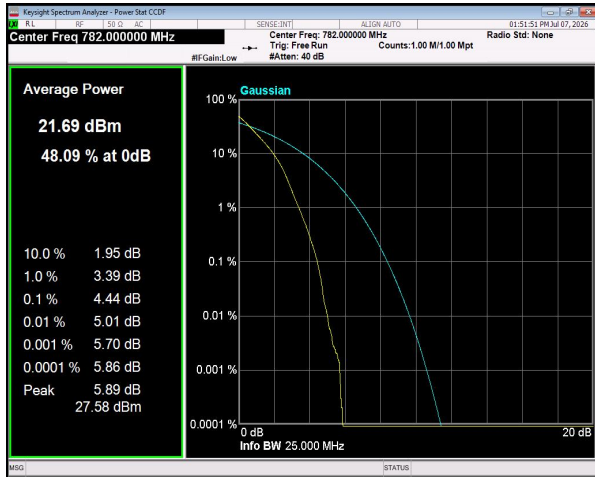
2. Frequency Stability

Temperature (°C)	Voltage (V)	Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Verdict
20(Ref.)	3.84	n13	15	10	156400	50@0	DFT_BPSK	-2.2	-0.00281	PASS
20	3	n13	15	10	156400	50@0	DFT_BPSK	-1.3	-0.00166	PASS
20	4.35	n13	15	10	156400	50@0	DFT_BPSK	-2.1	-0.00269	PASS
-30	3.84	n13	15	10	156400	50@0	DFT_BPSK	-7.5	-0.00959	PASS
-20	3.84	n13	15	10	156400	50@0	DFT_BPSK	-2.29	-0.00293	PASS
-10	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4.2	-0.00537	PASS
0	3.84	n13	15	10	156400	50@0	DFT_BPSK	-1.2	-0.00153	PASS
10	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4.7	-0.00601	PASS
30	3.84	n13	15	10	156400	50@0	DFT_BPSK	-5.6	-0.00716	PASS
40	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4.8	-0.00614	PASS
50	3.84	n13	15	10	156400	50@0	DFT_BPSK	-2.8	-0.00358	PASS

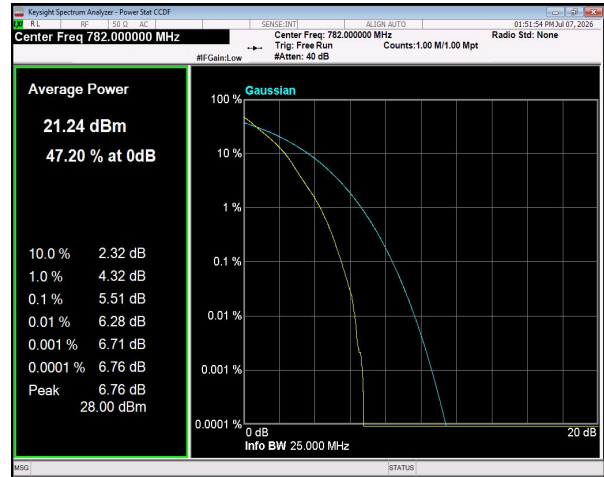
Note: The frequency fundamental emissions stay within the authorized frequency block.

3. Peak-to-average Ratio

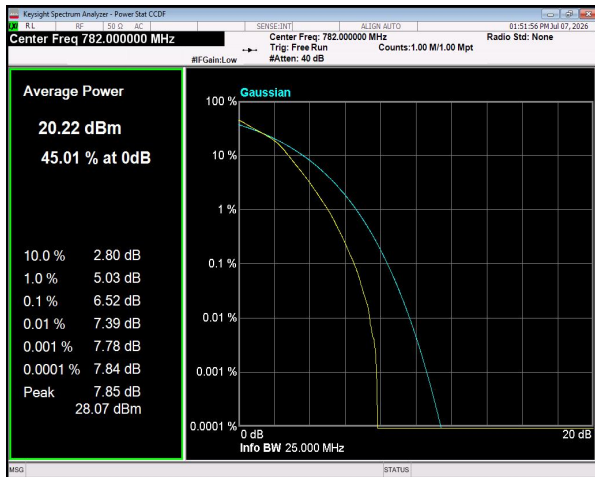
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	High Limit (dB)	Verdict
n13	15	10	156400	50@0	DFT_BPSK	4.44	13	PASS
n13	15	10	156400	50@0	DFT_QPSK	5.51	13	PASS
n13	15	10	156400	50@0	DFT_16QAM	6.52	13	PASS
n13	15	10	156400	50@0	DFT_64QAM	6.41	13	PASS
n13	15	10	156400	50@0	DFT_256QAM	7.11	13	PASS



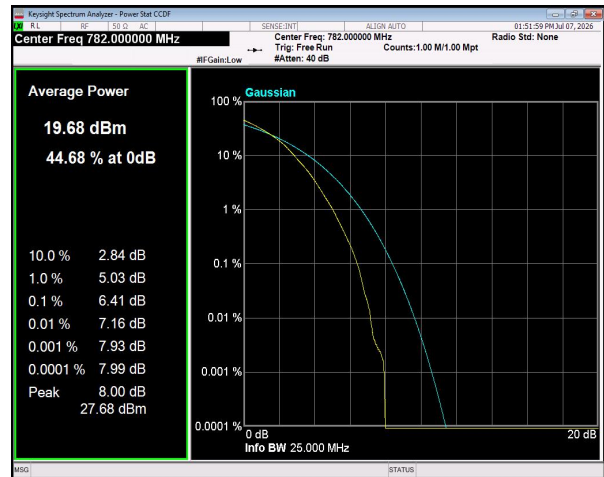
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



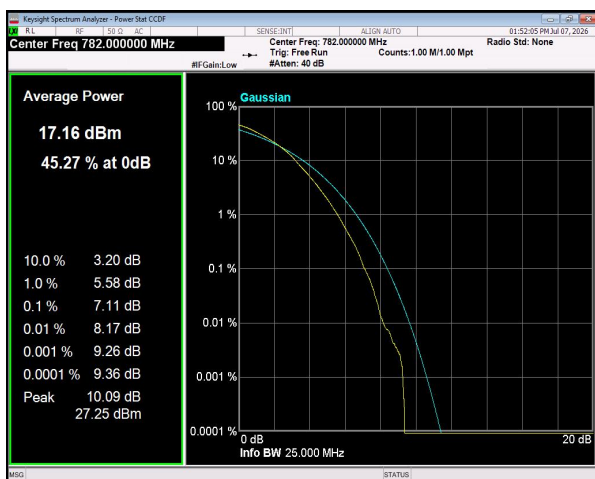
n13 SCS=15kHz DFT_QPSK BW=10MHz Channel=156400
RB=50@0



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



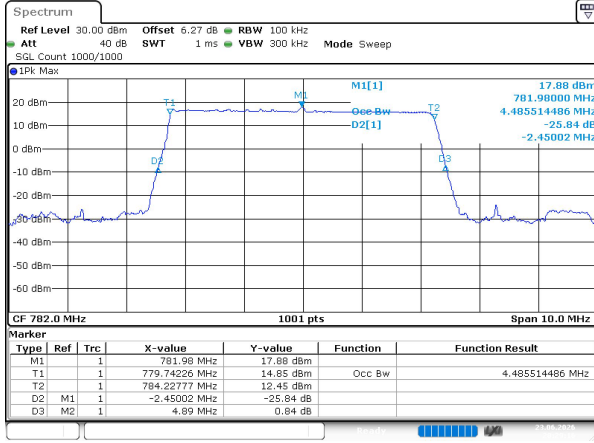
n13 SCS=15kHz DFT_64QAM BW=10MHz Channel=156400
RB=50@0



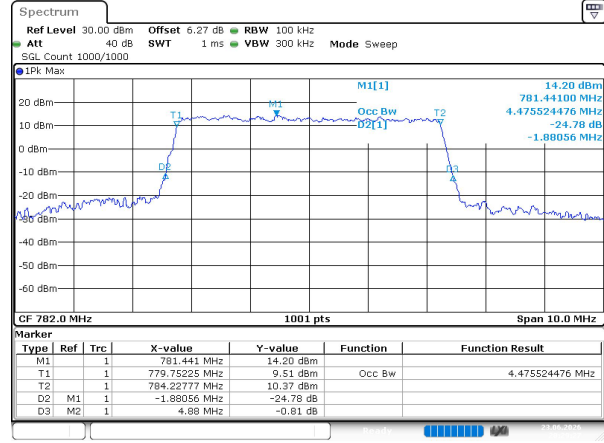
n13 SCS=15kHz DFT_256QAM BW=10MHz Channel=156400
RB=50@0

4. Occupied Bandwidth

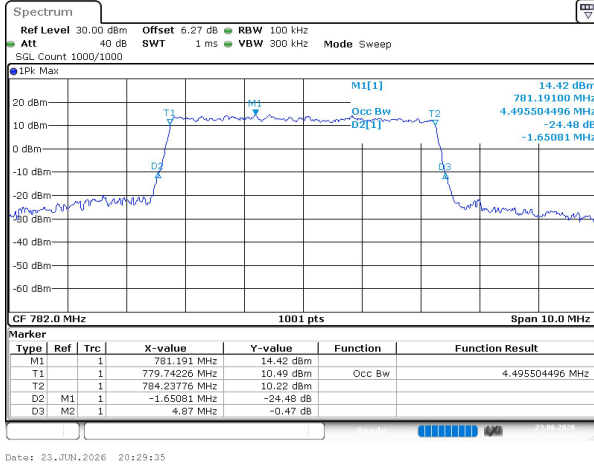
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	UL Frequency (MHz)	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n13	15	5	156400	782	25@0	DFT_BPSK	4.486	4.890	PASS
n13	15	5	156400	782	25@0	CP_QPSK	4.476	4.880	PASS
n13	15	5	156400	782	25@0	CP_16QAM	4.496	4.870	PASS
n13	15	5	156400	782	25@0	CP_64QAM	4.496	5.000	PASS
n13	15	5	156400	782	25@0	CP_256QAM	4.486	4.910	PASS
n13	15	10	156400	782	50@0	DFT_BPSK	8.991	9.560	PASS
n13	15	10	156400	782	52@0	CP_QPSK	9.291	9.900	PASS
n13	15	10	156400	782	52@0	CP_16QAM	9.311	9.900	PASS
n13	15	10	156400	782	52@0	CP_64QAM	9.311	9.920	PASS
n13	15	10	156400	782	52@0	CP_256QAM	9.291	9.940	PASS



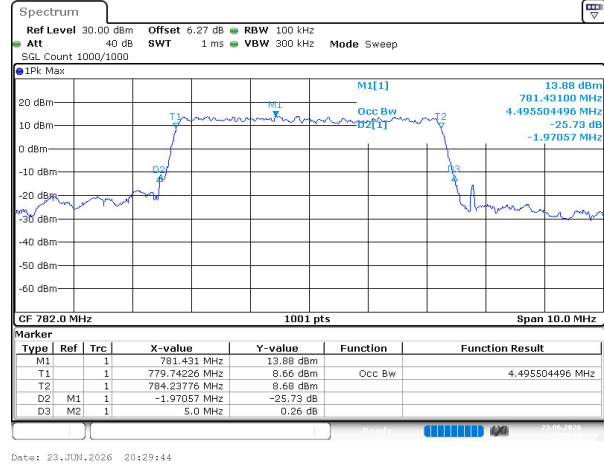
n13 SCS=15kHz DFT_BPSK BW=5MHz Channel=156400
RB=25@0



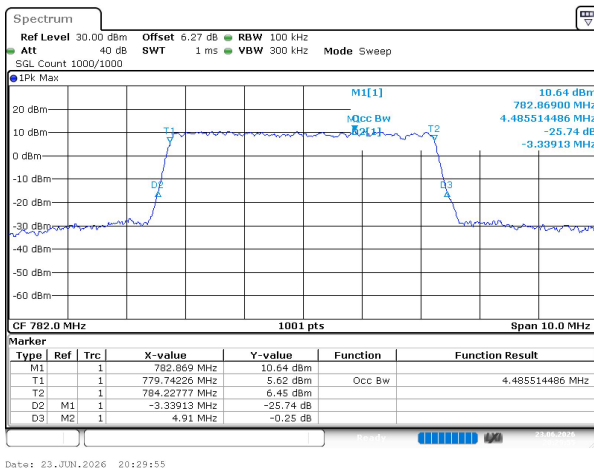
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RB=25@0



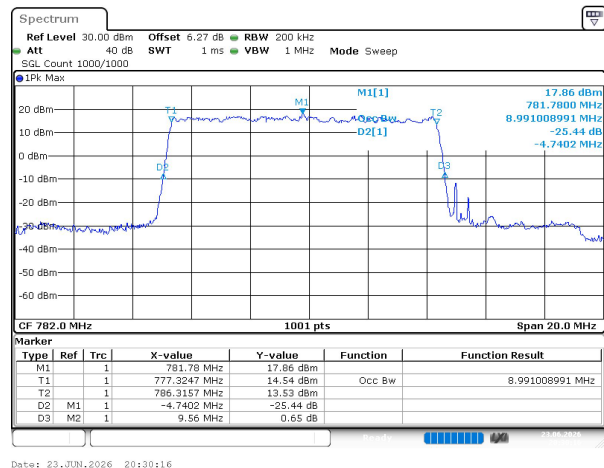
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RB=25@0



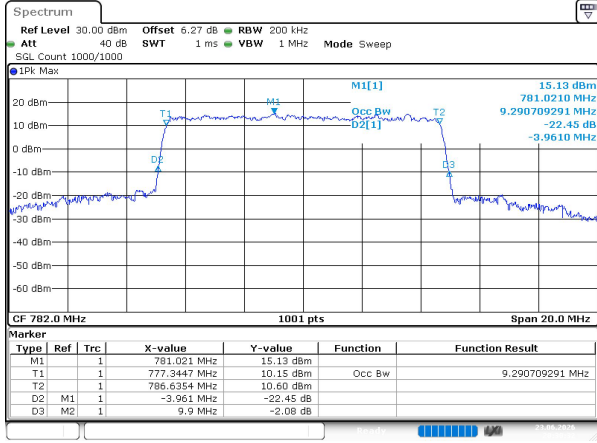
n13 SCS=15kHz CP_64QAM BW=5MHz Channel=156400
RB=25@0



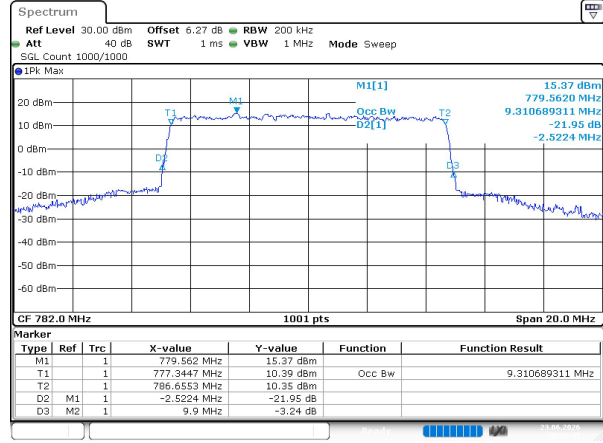
n13 SCS=15kHz CP_256QAM BW=5MHz Channel=156400
RB=25@0



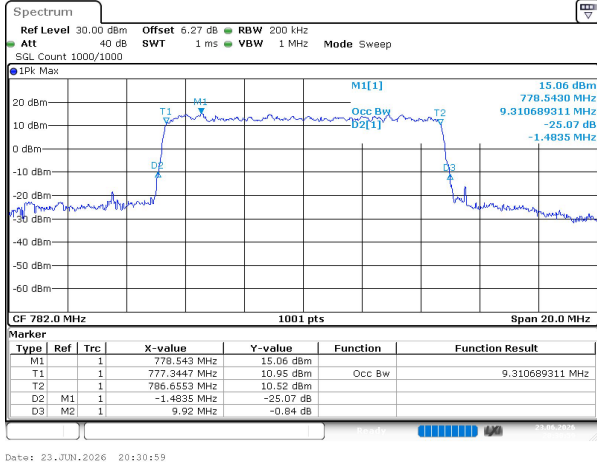
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



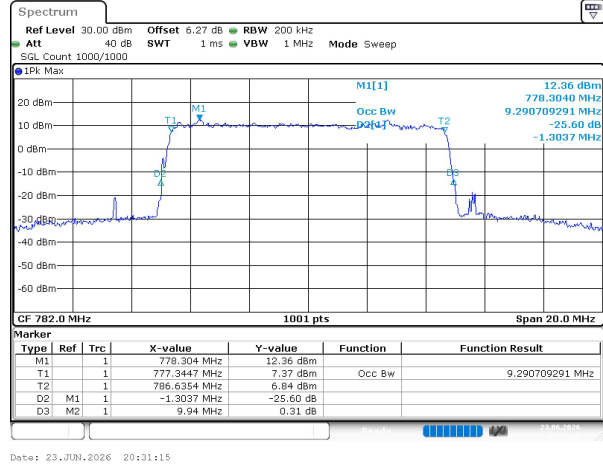
n13 SCS=15kHz CP_QPSK BW=10MHz Channel=156400
RB=52@0



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

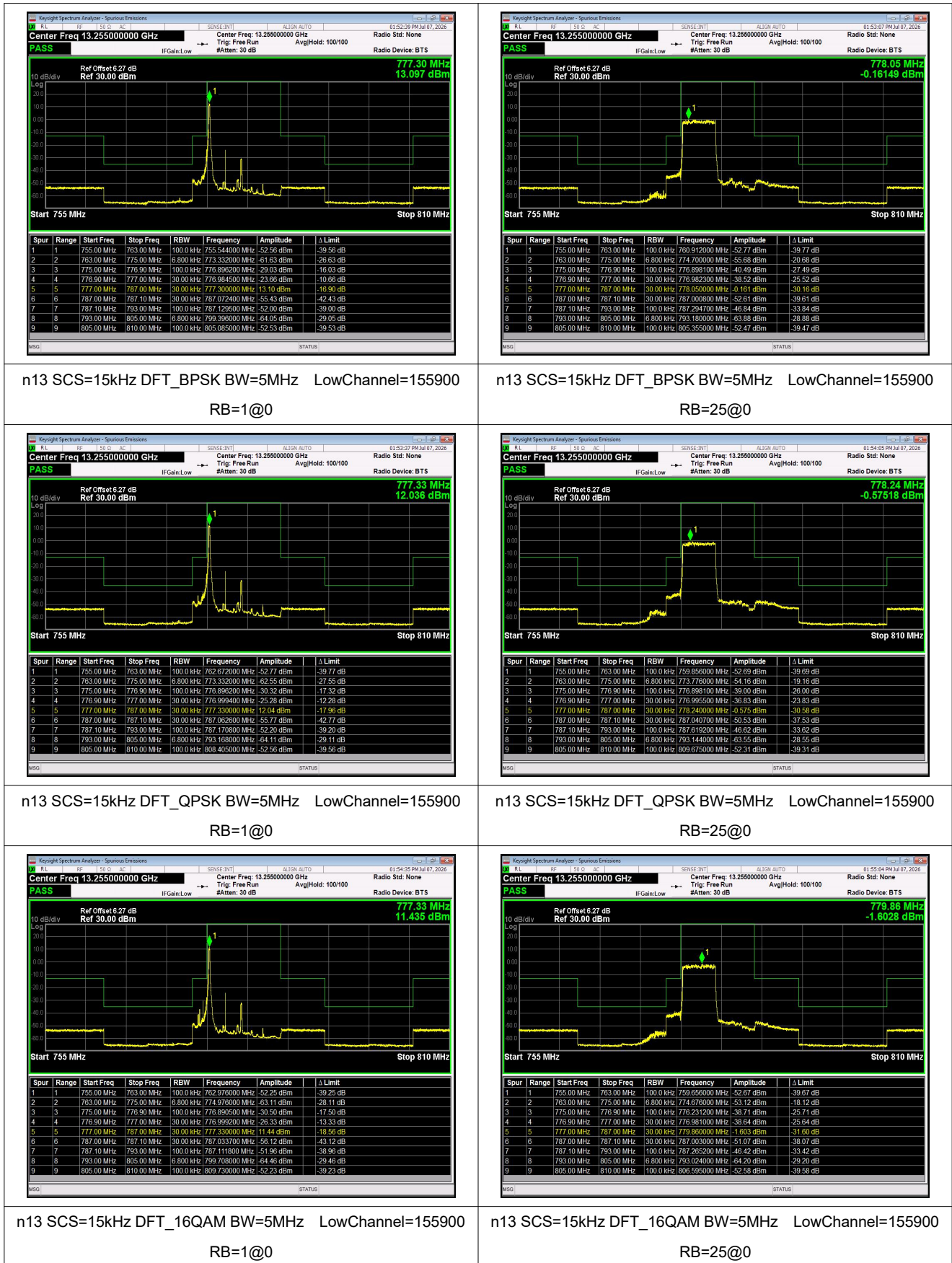


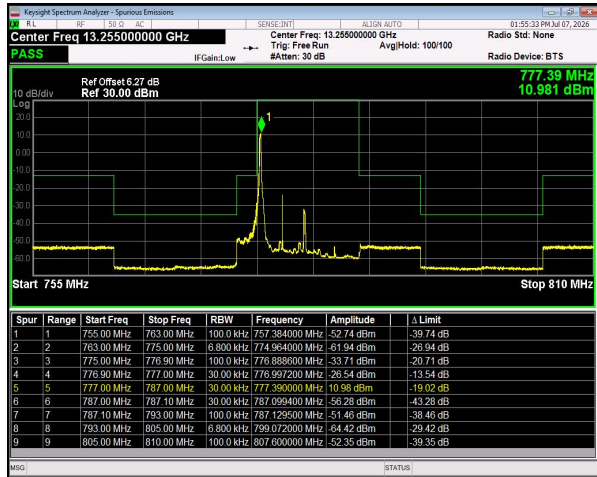
n13 SCS=15kHz CP_64QAM BW=10MHz Channel=156400
RB=52@0



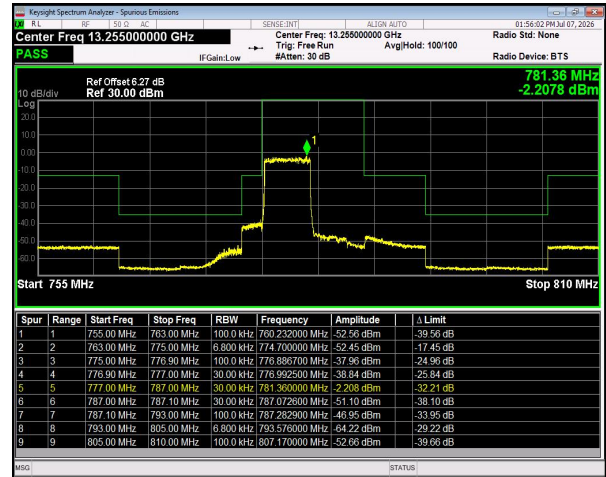
n13 SCS=15kHz CP_256QAM BW=10MHz Channel=156400
RB=52@0

5. Conducted Band Edge

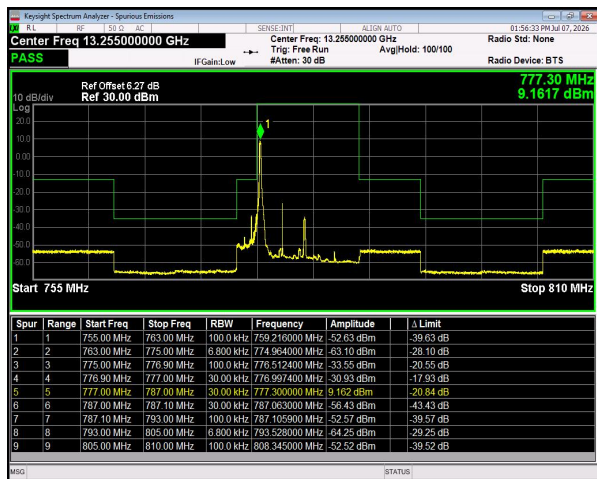




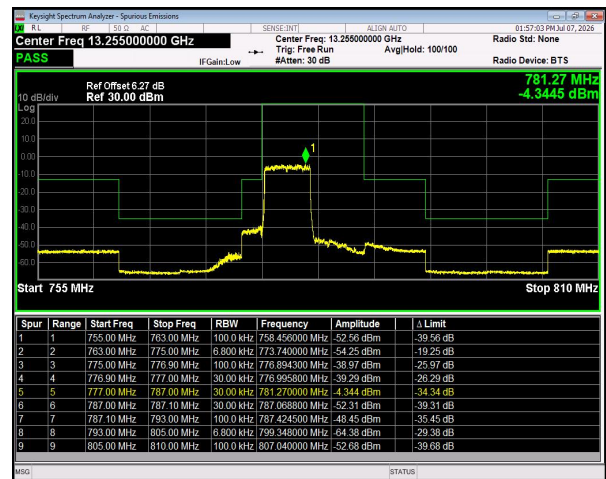
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=1@0



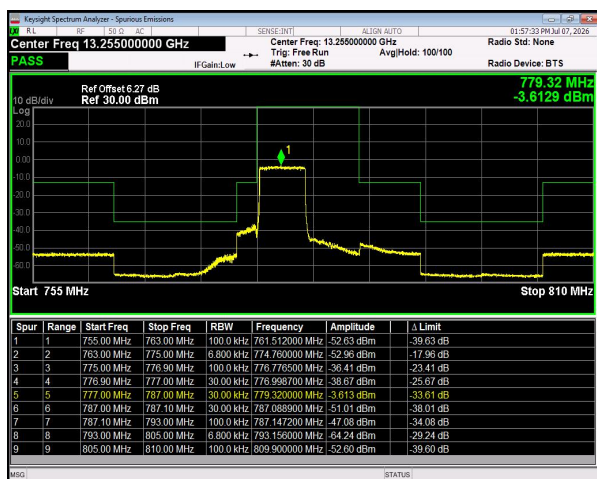
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=25@0



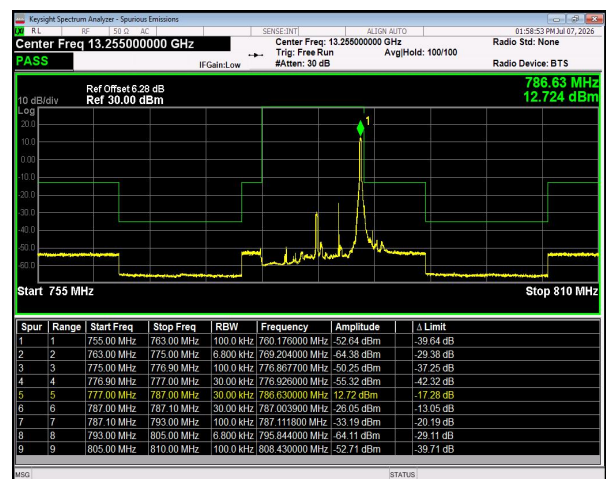
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=1@0



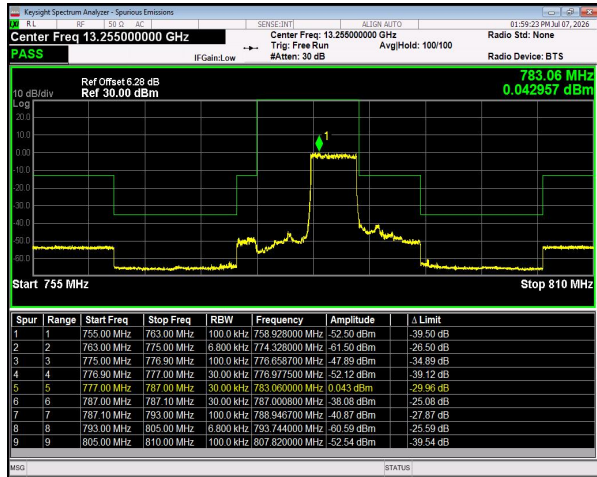
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=25@0



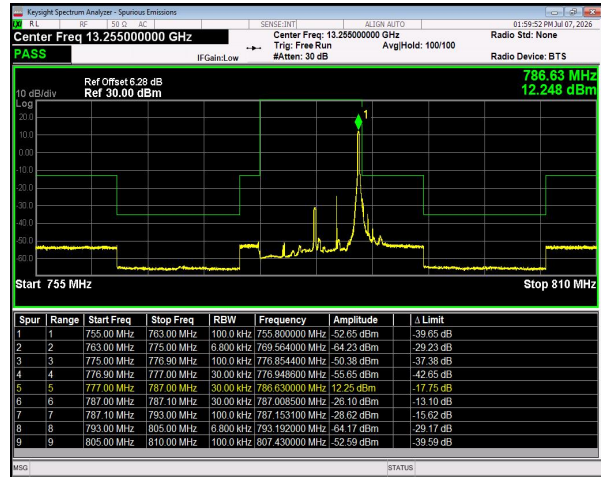
n13 SCS=15kHz CP_QPSK BW=5MHz LowChannel=155900
RB=25@0



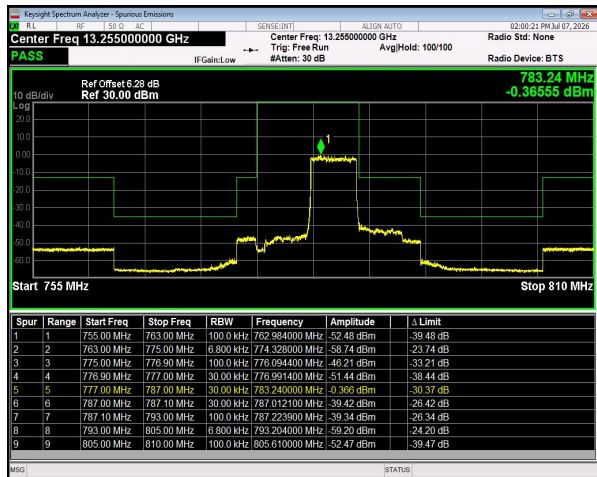
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=1@24



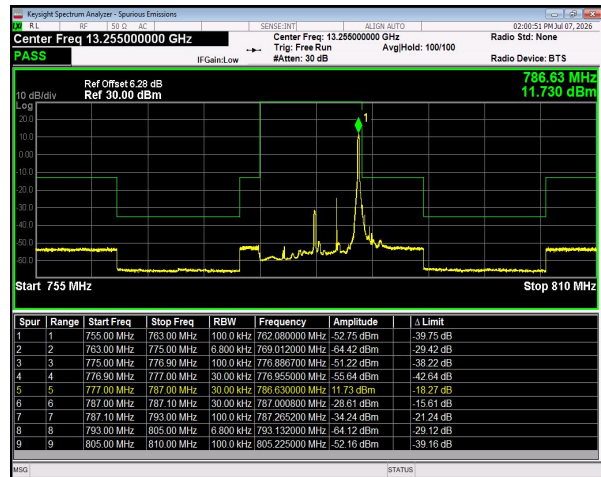
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=25@0



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



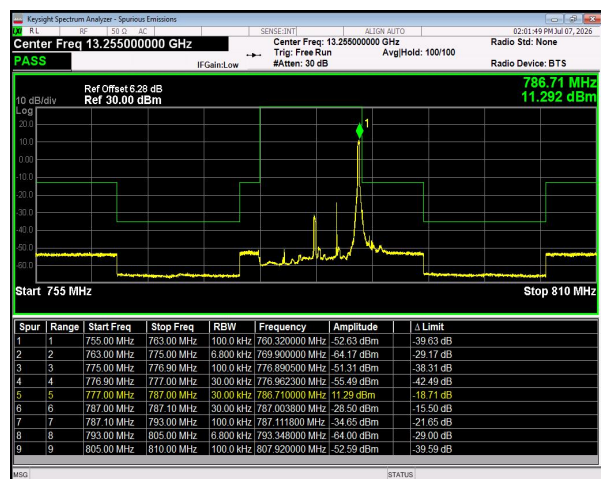
n13 SCS=15kHz DFT_QPSK BW=5MHz HighChannel=156900
RB=25@0



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