1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	ERP Limit (dBm)	Verdict
n12	30	10	140800	12@6	DFT_BPSK	22.93	-8.13	12.65	34.77	PASS
n12	30	10	140800	1@1	DFT_BPSK	22.87	-8.13	12.59	34.77	PASS
n12	30	10	140800	1@22	DFT_BPSK	22.89	-8.13	12.61	34.77	PASS
n12	30	10	140800	12@6	DFT_QPSK	23.04	-8.13	12.76	34.77	PASS
n12	30	10	140800	1@1	DFT_QPSK	22.74	-8.13	12.46	34.77	PASS
n12	30	10	140800	1@22	DFT_QPSK	22.73	-8.13	12.45	34.77	PASS
n12	30	10	140800	12@6	DFT_QAM16	21.96	-8.13	11.68	34.77	PASS
n12	30	10	140800	1@1	DFT_QAM16	22.59	-8.13	12.31	34.77	PASS
n12	30	10	140800	1@22	DFT_QAM16	22.50	-8.13	12.22	34.77	PASS
n12	30	10	140800	12@6	DFT_QAM64	20.69	-8.13	10.41	34.77	PASS
n12	30	10	140800	1@1	DFT_QAM64	20.77	-8.13	10.49	34.77	PASS
n12	30	10	140800	1@22	DFT_QAM64	20.59	-8.13	10.31	34.77	PASS
n12	30	10	140800	12@6	DFT_QAM256	18.41	-8.13	8.13	34.77	PASS
n12	30	10	140800	1@1	DFT_QAM256	18.58	-8.13	8.3	34.77	PASS
n12	30	10	140800	1@22	DFT_QAM256	18.35	-8.13	8.07	34.77	PASS
n12	30	10	140800	12@6	CP_QPSK	21.37	-8.13	11.09	34.77	PASS
n12	30	10	140800	1@1	CP_QPSK	21.45	-8.13	11.17	34.77	PASS
n12	30	10	140800	1@22	CP_QPSK	21.44	-8.13	11.16	34.77	PASS
n12	30	10	140800	12@6	CP_QAM16	20.77	-8.13	10.49	34.77	PASS
n12	30	10	140800	1@1	CP_QAM16	21.02	-8.13	10.74	34.77	PASS
n12	30	10	140800	1@22	CP_QAM16	21.56	-8.13	11.28	34.77	PASS
n12	30	10	140800	12@6	CP_QAM64	19.51	-8.13	9.23	34.77	PASS
n12	30	10	140800	1@1	CP_QAM64	20.10	-8.13	9.82	34.77	PASS
n12	30	10	140800	1@22	CP_QAM64	20.22	-8.13	9.94	34.77	PASS
n12	30	10	140800	12@6	CP_QAM256	16.57	-8.13	6.29	34.77	PASS
n12	30	10	140800	1@1	CP_QAM256	16.67	-8.13	6.39	34.77	PASS
n12	30	10	140800	1@22	CP_QAM256	16.78	-8.13	6.5	34.77	PASS
n12	30	10	141500	12@6	DFT_BPSK	23.04	-8.13	12.76	34.77	PASS
n12	30	10	141500	1@1	DFT_BPSK	22.90	-8.13	12.62	34.77	PASS
n12	30	10	141500	1@22	DFT_BPSK	22.89	-8.13	12.61	34.77	PASS
n12	30	10	141500	12@6	DFT_QPSK	23.00	-8.13	12.72	34.77	PASS
n12	30	10	141500	1@1	DFT_QPSK	22.90	-8.13	12.62	34.77	PASS
n12	30	10	141500	1@22	DFT_QPSK	22.90	-8.13	12.62	34.77	PASS
n12	30	10	141500	12@6	DFT_QAM16	22.06	-8.13	11.78	34.77	PASS
n12	30	10	141500	1@1	DFT_QAM16	22.77	-8.13	12.49	34.77	PASS
n12	30	10	141500	1@22	DFT_QAM16	22.76	-8.13	12.48	34.77	PASS
n12	30	10	141500	12@6	DFT_QAM64	20.59	-8.13	10.31	34.77	PASS
n12	30	10	141500	1@1	DFT_QAM64	21.08	-8.13	10.8	34.77	PASS
n12	30	10	141500	1@22	DFT_QAM64	20.90	-8.13	10.62	34.77	PASS

n12	30	10	141500	12@6	DFT_QAM256	18.63	-8.13	8.35	34.77	PASS
n12	30	10	141500	1@1	DFT_QAM256	18.41	-8.13	8.13	34.77	PASS
n12	30	10	141500	1@22	DFT_QAM256	18.47	-8.13	8.19	34.77	PASS
n12	30	10	141500	12@6	CP_QPSK	21.45	-8.13	11.17	34.77	PASS
n12	30	10	141500	1@1	CP_QPSK	21.26	-8.13	10.98	34.77	PASS
n12	30	10	141500	1@22	CP_QPSK	21.42	-8.13	11.14	34.77	PASS
n12	30	10	141500	12@6	CP_QAM16	20.85	-8.13	10.57	34.77	PASS
n12	30	10	141500	1@1	CP_QAM16	21.34	-8.13	11.06	34.77	PASS
n12	30	10	141500	1@22	CP_QAM16	21.34	-8.13	11.06	34.77	PASS
n12	30	10	141500	12@6	CP_QAM64	19.60	-8.13	9.32	34.77	PASS
n12	30	10	141500	1@1	CP_QAM64	19.72	-8.13	9.44	34.77	PASS
n12	30	10	141500	1@22	CP_QAM64	19.70	-8.13	9.42	34.77	PASS
n12	30	10	141500	12@6	CP_QAM256	16.46	-8.13	6.18	34.77	PASS
n12	30	10	141500	1@1	CP_QAM256	16.67	-8.13	6.39	34.77	PASS
n12	30	10	141500	1@22	CP_QAM256	16.70	-8.13	6.42	34.77	PASS
n12	30	10	142200	12@6	DFT_BPSK	23.08	-8.13	12.8	34.77	PASS
n12	30	10	142200	1@1	DFT_BPSK	22.98	-8.13	12.7	34.77	PASS
n12	30	10	142200	1@22	DFT_BPSK	22.83	-8.13	12.55	34.77	PASS
n12	30	10	142200	12@6	DFT_QPSK	23.01	-8.13	12.73	34.77	PASS
n12	30	10	142200	1@1	DFT_QPSK	22.78	-8.13	12.5	34.77	PASS
n12	30	10	142200	1@22	DFT_QPSK	22.65	-8.13	12.37	34.77	PASS
n12	30	10	142200	12@6	DFT_QAM16	22.01	-8.13	11.73	34.77	PASS
n12	30	10	142200	1@1	DFT_QAM16	22.66	-8.13	12.38	34.77	PASS
n12	30	10	142200	1@22	DFT_QAM16	22.78	-8.13	12.5	34.77	PASS
n12	30	10	142200	12@6	DFT_QAM64	20.59	-8.13	10.31	34.77	PASS
n12	30	10	142200	1@1	DFT_QAM64	20.72	-8.13	10.44	34.77	PASS
n12	30	10	142200	1@22	DFT_QAM64	21.05	-8.13	10.77	34.77	PASS
n12	30	10	142200	12@6	DFT_QAM256	18.56	-8.13	8.28	34.77	PASS
n12	30	10	142200	1@1	DFT_QAM256	18.41	-8.13	8.13	34.77	PASS
n12	30	10	142200	1@22	DFT_QAM256	18.35	-8.13	8.07	34.77	PASS
n12	30	10	142200	12@6	CP_QPSK	21.40	-8.13	11.12	34.77	PASS
n12	30	10	142200	1@1	CP_QPSK	21.42	-8.13	11.14	34.77	PASS
n12	30	10	142200	1@22	CP_QPSK	21.17	-8.13	10.89	34.77	PASS
n12	30	10	142200	12@6	CP_QAM16	20.91	-8.13	10.63	34.77	PASS
n12	30	10	142200	1@1	CP_QAM16	21.57	-8.13	11.29	34.77	PASS
n12	30	10	142200	1@22	CP_QAM16	20.97	-8.13	10.69	34.77	PASS
n12	30	10	142200	12@6	CP_QAM64	19.69	-8.13	9.41	34.77	PASS
n12	30	10	142200	1@1	CP_QAM64	19.88	-8.13	9.6	34.77	PASS
n12	30	10	142200	1@22	CP_QAM64	19.63	-8.13	9.35	34.77	PASS
n12	30	10	142200	12@6	CP_QAM256	16.54	-8.13	6.26	34.77	PASS
n12	30	10	142200	1@1	CP_QAM256	16.63	-8.13	6.35	34.77	PASS
n12	30	10	142200	1@22	CP_QAM256	16.74	-8.13	6.46	34.77	PASS
n12	30	15	141300	18@9	DFT_BPSK	22.98	-8.13	12.7	34.77	PASS

n12	30	15	141300	1@1	DFT_BPSK	22.91	-8.13	12.63	34.77	PASS
n12	30	15	141300	1@36	DFT_BPSK	22.86	-8.13	12.58	34.77	PASS
n12	30	15	141300	18@9	DFT_QPSK	22.96	-8.13	12.68	34.77	PASS
n12	30	15	141300	1@1	DFT_QPSK	22.83	-8.13	12.55	34.77	PASS
n12	30	15	141300	1@36	DFT_QPSK	22.75	-8.13	12.47	34.77	PASS
n12	30	15	141300	18@9	DFT_QAM16	22.09	-8.13	11.81	34.77	PASS
n12	30	15	141300	1@1	DFT_QAM16	22.57	-8.13	12.29	34.77	PASS
n12	30	15	141300	1@36	DFT_QAM16	22.67	-8.13	12.39	34.77	PASS
n12	30	15	141300	18@9	DFT_QAM64	20.73	-8.13	10.45	34.77	PASS
n12	30	15	141300	1@1	DFT_QAM64	20.96	-8.13	10.68	34.77	PASS
n12	30	15	141300	1@36	DFT_QAM64	20.87	-8.13	10.59	34.77	PASS
n12	30	15	141300	18@9	DFT_QAM256	18.49	-8.13	8.21	34.77	PASS
n12	30	15	141300	1@1	DFT_QAM256	18.45	-8.13	8.17	34.77	PASS
n12	30	15	141300	1@36	DFT_QAM256	18.44	-8.13	8.16	34.77	PASS
n12	30	15	141300	19@9	CP_QPSK	21.59	-8.13	11.31	34.77	PASS
n12	30	15	141300	1@1	CP_QPSK	21.43	-8.13	11.15	34.77	PASS
n12	30	15	141300	1@36	CP_QPSK	21.42	-8.13	11.14	34.77	PASS
n12	30	15	141300	19@9	CP_QAM16	21.11	-8.13	10.83	34.77	PASS
n12	30	15	141300	1@1	CP_QAM16	21.33	-8.13	11.05	34.77	PASS
n12	30	15	141300	1@36	CP_QAM16	20.96	-8.13	10.68	34.77	PASS
n12	30	15	141300	19@9	CP_QAM64	19.73	-8.13	9.45	34.77	PASS
n12	30	15	141300	1@1	CP_QAM64	19.43	-8.13	9.15	34.77	PASS
n12	30	15	141300	1@36	CP_QAM64	19.39	-8.13	9.11	34.77	PASS
n12	30	15	141300	19@9	CP_QAM256	16.53	-8.13	6.25	34.77	PASS
n12	30	15	141300	1@1	CP_QAM256	16.49	-8.13	6.21	34.77	PASS
n12	30	15	141300	1@36	CP_QAM256	16.58	-8.13	6.3	34.77	PASS
n12	30	15	141500	18@9	DFT_BPSK	22.94	-8.13	12.66	34.77	PASS
n12	30	15	141500	1@1	DFT_BPSK	22.95	-8.13	12.67	34.77	PASS
n12	30	15	141500	1@36	DFT_BPSK	22.76	-8.13	12.48	34.77	PASS
n12	30	15	141500	18@9	DFT_QPSK	22.91	-8.13	12.63	34.77	PASS
n12	30	15	141500	1@1	DFT_QPSK	23.00	-8.13	12.72	34.77	PASS
n12	30	15	141500	1@36	DFT_QPSK	22.79	-8.13	12.51	34.77	PASS
n12	30	15	141500	18@9	DFT_QAM16	22.16	-8.13	11.88	34.77	PASS
n12	30	15	141500	1@1	DFT_QAM16	22.07	-8.13	11.79	34.77	PASS
n12	30	15	141500	1@36	DFT_QAM16	22.16	-8.13	11.88	34.77	PASS
n12	30	15	141500	18@9	DFT_QAM64	20.73	-8.13	10.45	34.77	PASS
n12	30	15	141500	1@1	DFT_QAM64	20.80	-8.13	10.52	34.77	PASS
n12	30	15	141500	1@36	DFT_QAM64	20.80	-8.13	10.52	34.77	PASS
n12	30	15	141500	18@9	DFT_QAM256	18.51	-8.13	8.23	34.77	PASS
n12	30	15	141500	1@1	DFT_QAM256	18.65	-8.13	8.37	34.77	PASS
n12	30	15	141500	1@36	DFT_QAM256	18.34	-8.13	8.06	34.77	PASS
n12	30	15	141500	19@9	CP_QPSK	21.44	-8.13	11.16	34.77	PASS
n12	30	15	141500	1@1	CP_QPSK	21.27	-8.13	10.99	34.77	PASS

n12	30	15	141500	1@36	CP_QPSK	20.99	-8.13	10.71	34.77	PASS
n12	30	15	141500	19@9	CP_QAM16	21.15	-8.13	10.87	34.77	PASS
n12	30	15	141500	1@1	CP_QAM16	21.21	-8.13	10.93	34.77	PASS
n12	30	15	141500	1@36	CP_QAM16	20.97	-8.13	10.69	34.77	PASS
n12	30	15	141500	19@9	CP_QAM64	19.57	-8.13	9.29	34.77	PASS
n12	30	15	141500	1@1	CP_QAM64	19.81	-8.13	9.53	34.77	PASS
n12	30	15	141500	1@36	CP_QAM64	19.66	-8.13	9.38	34.77	PASS
n12	30	15	141500	19@9	CP_QAM256	16.59	-8.13	6.31	34.77	PASS
n12	30	15	141500	1@1	CP_QAM256	16.57	-8.13	6.29	34.77	PASS
n12	30	15	141500	1@36	CP_QAM256	16.48	-8.13	6.2	34.77	PASS
n12	30	15	141700	18@9	DFT_BPSK	22.95	-8.13	12.67	34.77	PASS
n12	30	15	141700	1@1	DFT_BPSK	22.86	-8.13	12.58	34.77	PASS
n12	30	15	141700	1@36	DFT_BPSK	22.81	-8.13	12.53	34.77	PASS
n12	30	15	141700	18@9	DFT_QPSK	22.98	-8.13	12.7	34.77	PASS
n12	30	15	141700	1@1	DFT_QPSK	22.92	-8.13	12.64	34.77	PASS
n12	30	15	141700	1@36	DFT_QPSK	22.76	-8.13	12.48	34.77	PASS
n12	30	15	141700	18@9	DFT_QAM16	22.16	-8.13	11.88	34.77	PASS
n12	30	15	141700	1@1	DFT_QAM16	22.31	-8.13	12.03	34.77	PASS
n12	30	15	141700	1@36	DFT_QAM16	22.19	-8.13	11.91	34.77	PASS
n12	30	15	141700	18@9	DFT_QAM64	20.69	-8.13	10.41	34.77	PASS
n12	30	15	141700	1@1	DFT_QAM64	20.86	-8.13	10.58	34.77	PASS
n12	30	15	141700	1@36	DFT_QAM64	20.61	-8.13	10.33	34.77	PASS
n12	30	15	141700	18@9	DFT_QAM256	18.50	-8.13	8.22	34.77	PASS
n12	30	15	141700	1@1	DFT_QAM256	18.62	-8.13	8.34	34.77	PASS
n12	30	15	141700	1@36	DFT_QAM256	18.51	-8.13	8.23	34.77	PASS
n12	30	15	141700	19@9	CP_QPSK	21.58	-8.13	11.3	34.77	PASS
n12	30	15	141700	1@1	CP_QPSK	21.16	-8.13	10.88	34.77	PASS
n12	30	15	141700	1@36	CP_QPSK	21.09	-8.13	10.81	34.77	PASS
n12	30	15	141700	19@9	CP_QAM16	21.15	-8.13	10.87	34.77	PASS
n12	30	15	141700	1@1	CP_QAM16	21.16	-8.13	10.88	34.77	PASS
n12	30	15	141700	1@36	CP_QAM16	20.94	-8.13	10.66	34.77	PASS
n12	30	15	141700	19@9	CP_QAM64	19.72	-8.13	9.44	34.77	PASS
n12	30	15	141700	1@1	CP_QAM64	19.81	-8.13	9.53	34.77	PASS
n12	30	15	141700	1@36	CP_QAM64	19.60	-8.13	9.32	34.77	PASS
n12	30	15	141700	19@9	CP_QAM256	16.60	-8.13	6.32	34.77	PASS
n12	30	15	141700	1@1	CP_QAM256	16.62	-8.13	6.34	34.77	PASS
n12	30	15	141700	1@36	CP_QAM256	16.59	-8.13	6.31	34.77	PASS

2 Frequency stability for NR FR1

NT:

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n12	30	15	141500	18@9	DFT_BPSK	3.45	-5.81	-0.01	Within authorized band for 5G NR n12	PASS
n12	30	15	141500	18@9	DFT_BPSK	3.85	-4.06	-0.01		PASS
n12	30	15	141500	18@9	DFT_BPSK	4.40	-5.36	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	3.45	-4.83	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	3.85	-1.53	0.00		PASS
n12	30	15	141500	18@9	DFT_QPSK	4.40	-3.21	0.00		PASS

Note: Only the worst case shown in the report.

NV:

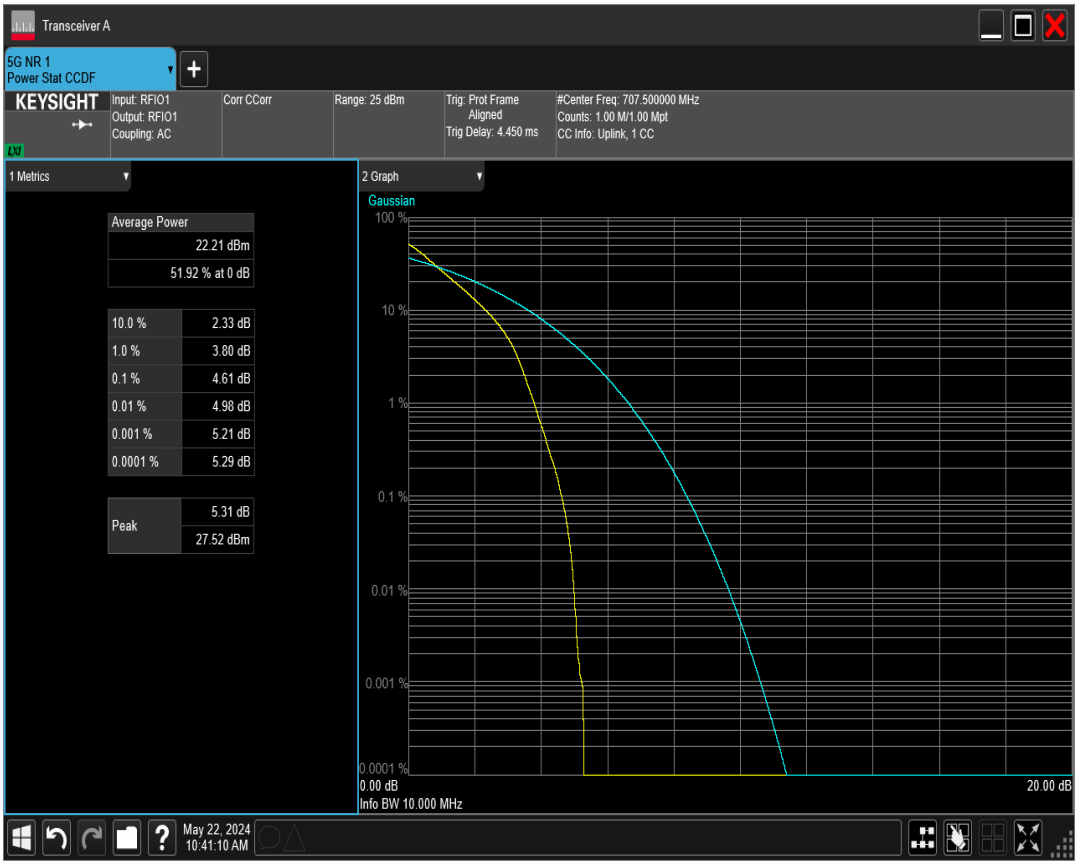
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Temperature(℃)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n12	30	15	141500	18@9	DFT_BPSK	-30	-3.29	0.00	Within authorized band for 5G NR n12	PASS
n12	30	15	141500	18@9	DFT_BPSK	-20	-3.05	0.00		PASS
n12	30	15	141500	18@9	DFT_BPSK	-10	-4.37	-0.01		PASS
n12	30	15	141500	18@9	DFT_BPSK	0	-2.77	0.00		PASS
n12	30	15	141500	18@9	DFT_BPSK	10	-5.26	-0.01		PASS
n12	30	15	141500	18@9	DFT_BPSK	20	-3.17	0.00		PASS
n12	30	15	141500	18@9	DFT_BPSK	30	-1.77	0.00		PASS
n12	30	15	141500	18@9	DFT_BPSK	40	-1.87	0.00		PASS
n12	30	15	141500	18@9	DFT_BPSK	50	-5.50	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	-30	-4.41	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	-20	-3.68	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	-10	-6.15	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	0	-5.96	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	10	-2.23	0.00		PASS
n12	30	15	141500	18@9	DFT_QPSK	20	-1.21	0.00		PASS
n12	30	15	141500	18@9	DFT_QPSK	30	-2.59	0.00		PASS
n12	30	15	141500	18@9	DFT_QPSK	40	-4.32	-0.01		PASS
n12	30	15	141500	18@9	DFT_QPSK	50	-4.78	-0.01		PASS

Note: Only the worst case shown in the report.

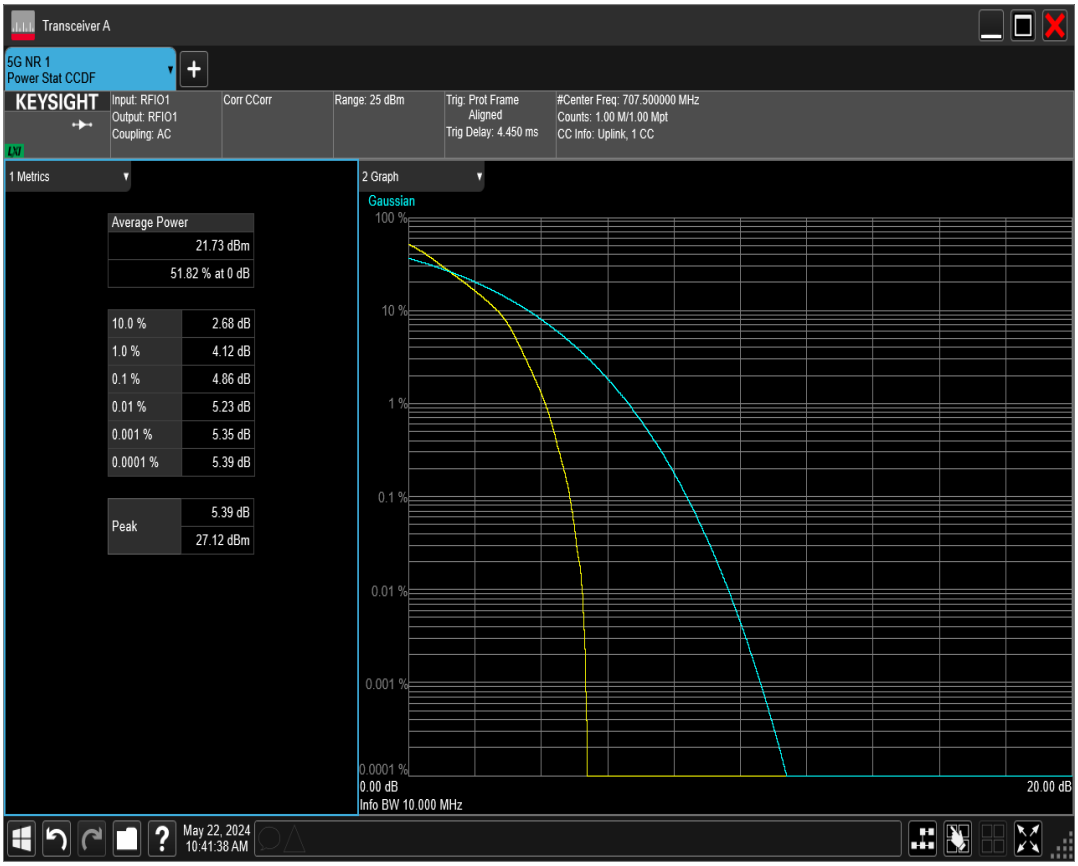
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n12	30	10	141500	24@0	DFT_BPSK	4.61	13	PASS
n12	30	10	141500	24@0	DFT_QPSK	4.86	13	PASS
n12	30	10	141500	24@0	DFT_QAM16	5.58	13	PASS
n12	30	10	141500	24@0	DFT_QAM64	6.09	13	PASS
n12	30	10	141500	24@0	DFT_QAM256	6.87	13	PASS
n12	30	15	141500	36@0	DFT_BPSK	3.94	13	PASS
n12	30	15	141500	36@0	DFT_QPSK	4.98	13	PASS
n12	30	15	141500	36@0	DFT_QAM16	5.78	13	PASS
n12	30	15	141500	36@0	DFT_QAM64	6.06	13	PASS
n12	30	15	141500	36@0	DFT_QAM256	6.76	13	PASS

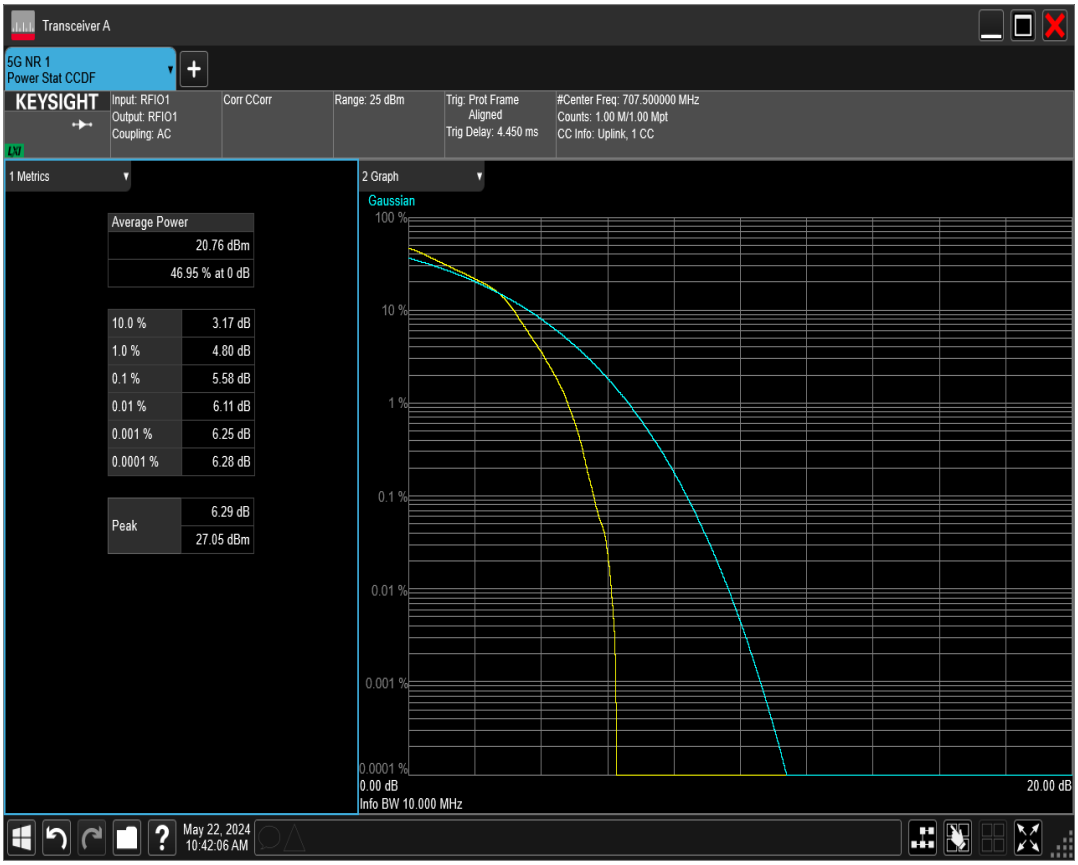
n12 SCS=30kHz DFT_BPSK BW=10MHz Channel=141500 RB=24@0



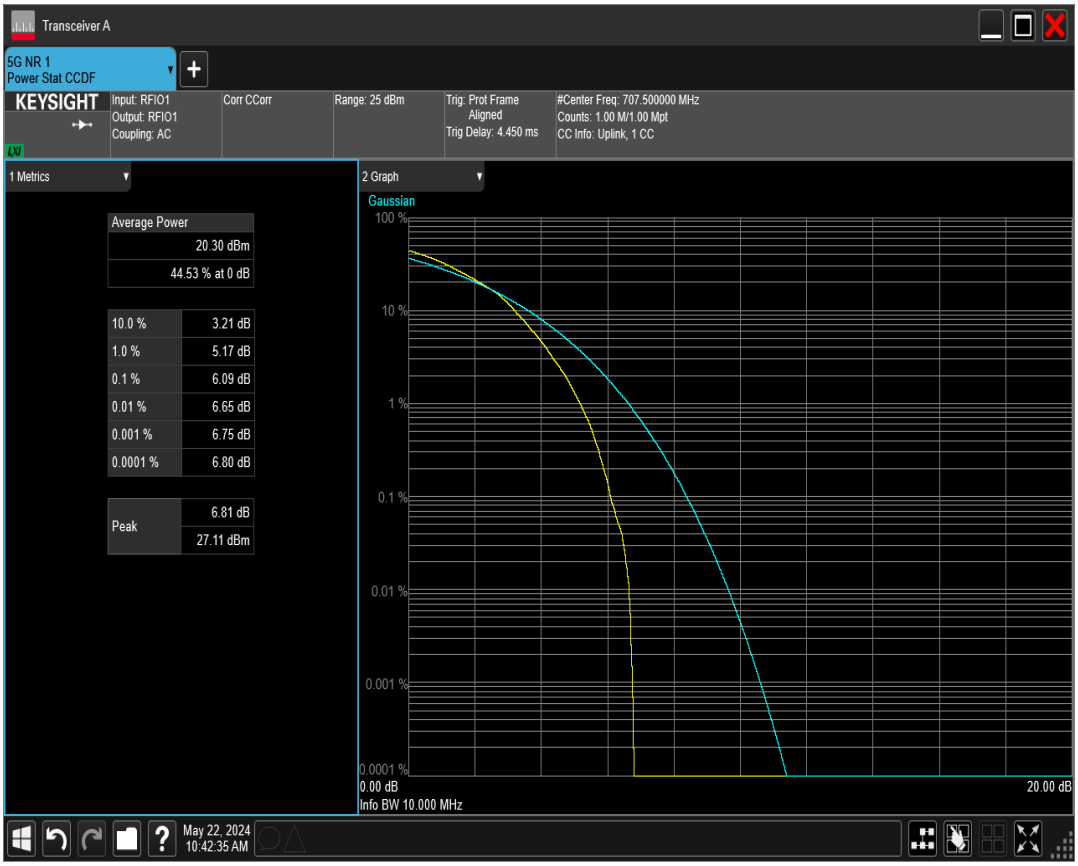
n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=141500 RB=24@0



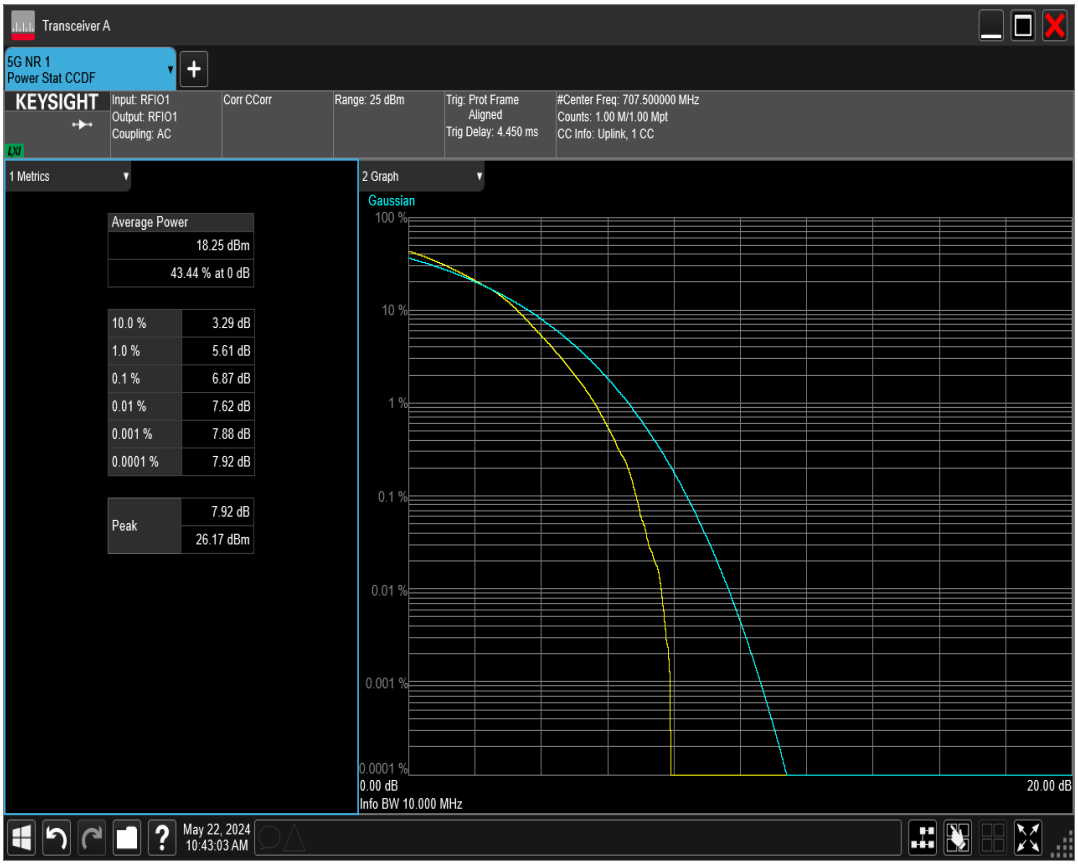
n12 SCS=30kHz DFT_QAM16 BW=10MHz Channel=141500 RB=24@0



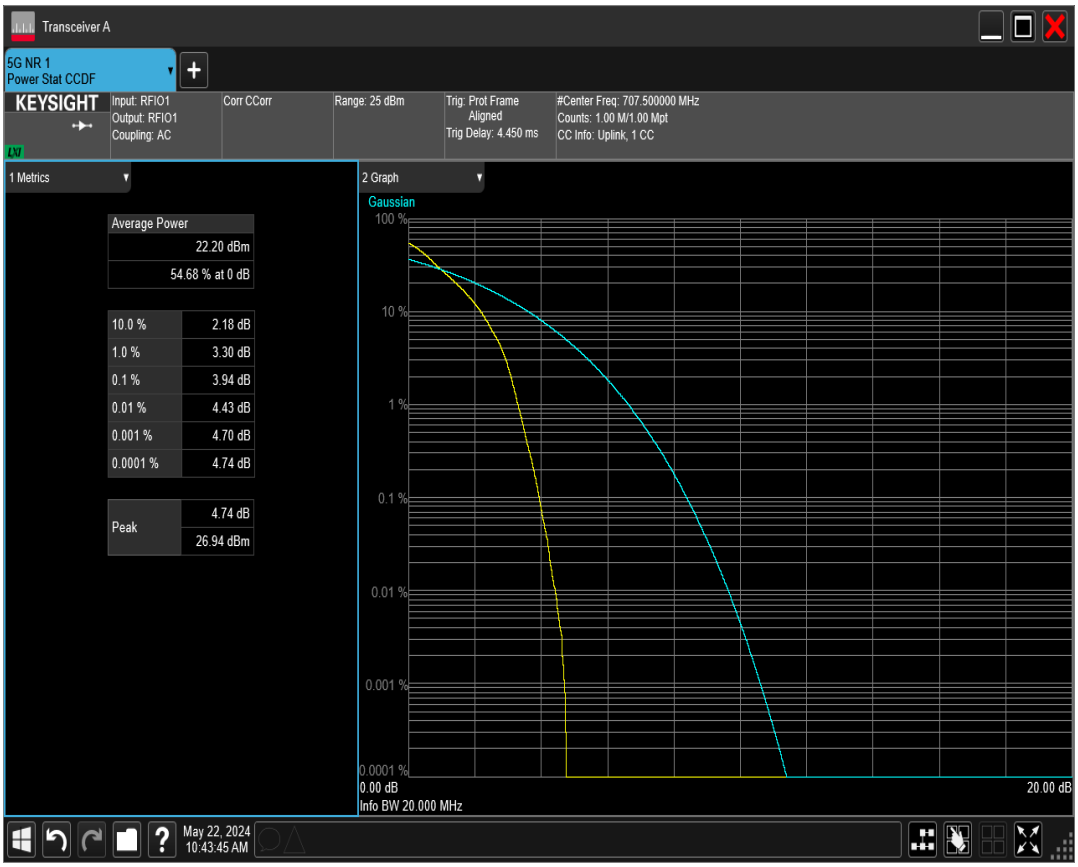
n12 SCS=30kHz DFT_QAM64 BW=10MHz Channel=141500 RB=24@0



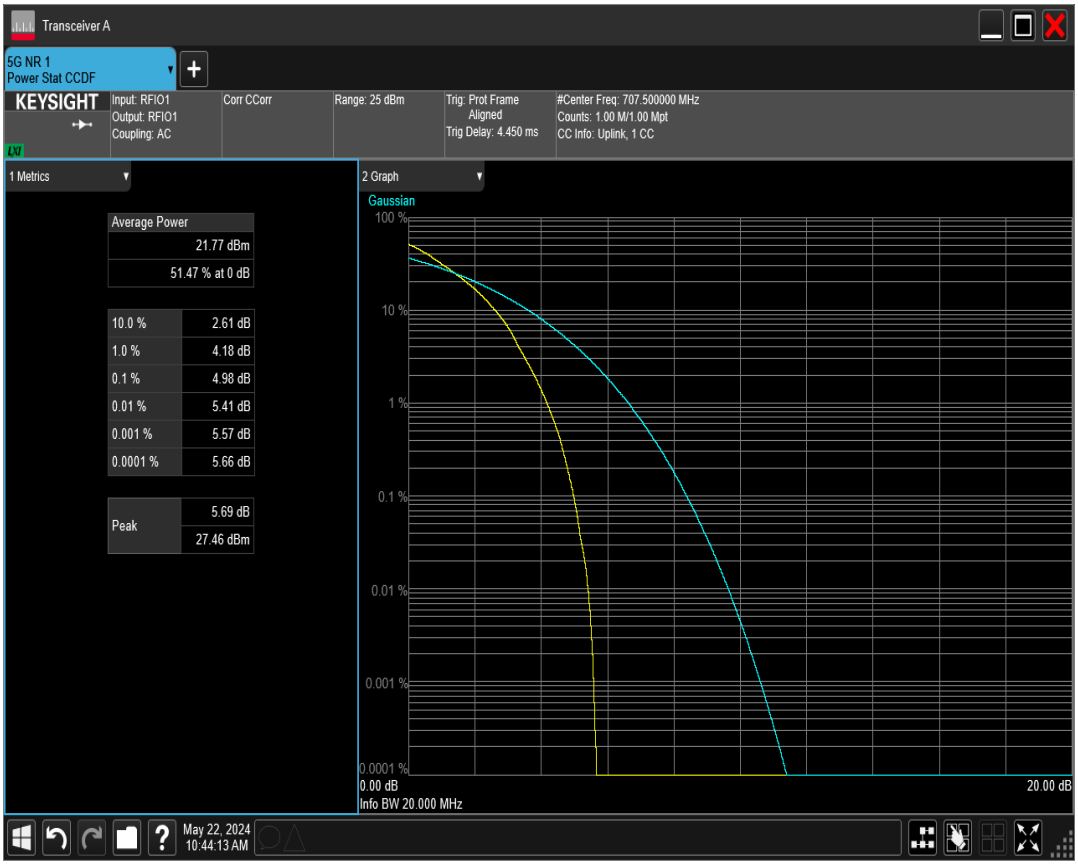
n12 SCS=30kHz DFT_QAM256 BW=10MHz Channel=141500 RB=24@0



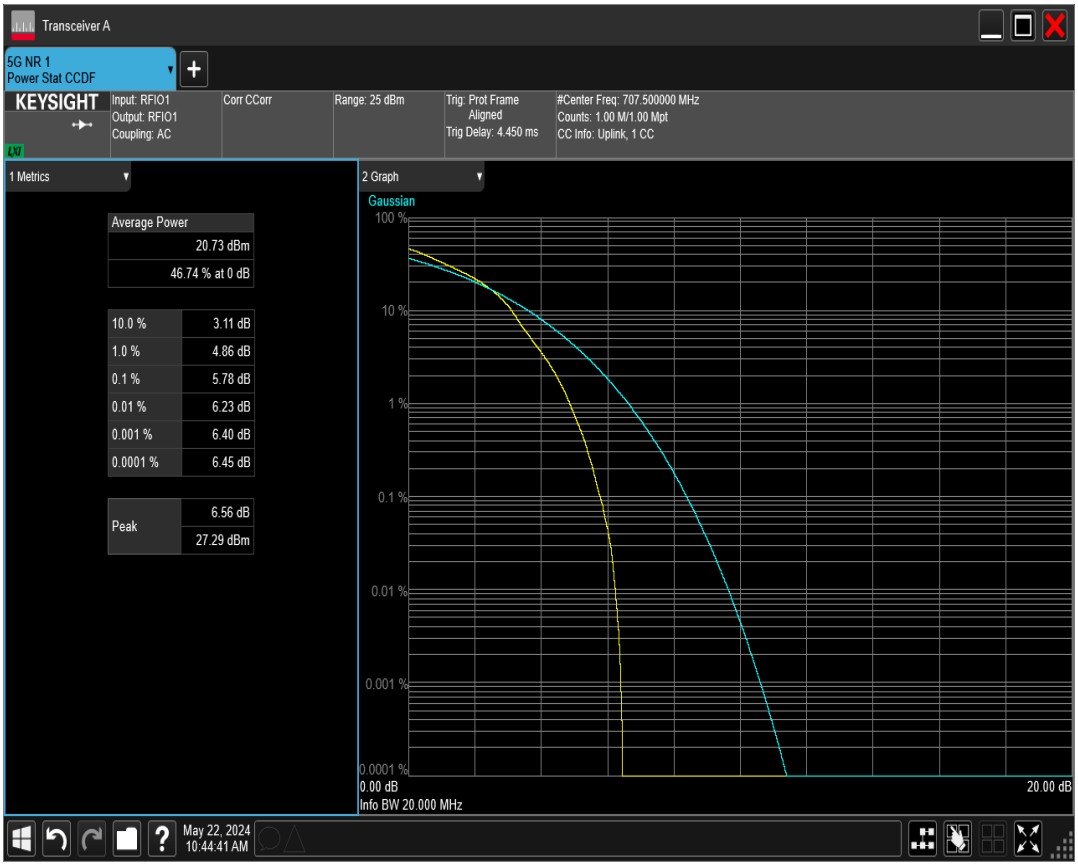
n12 SCS=30kHz DFT_BPSK BW=15MHz Channel=141500 RB=36@0



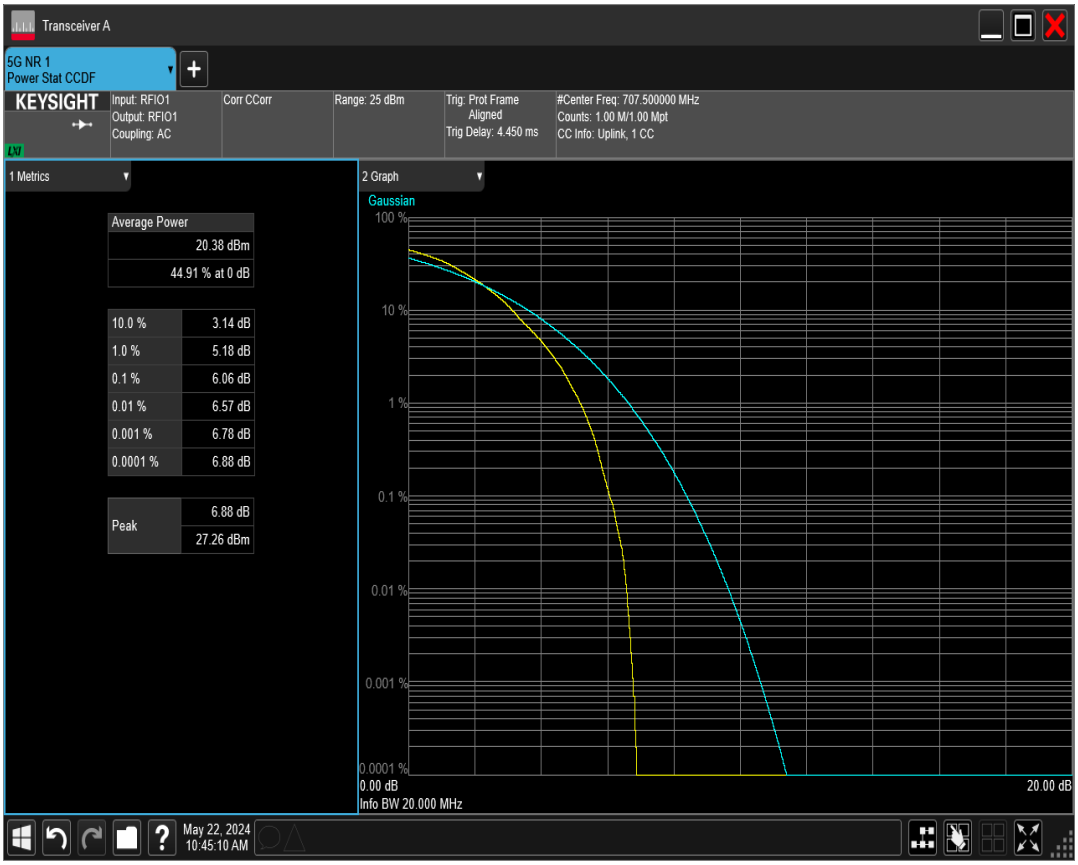
n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141500 RB=36@0



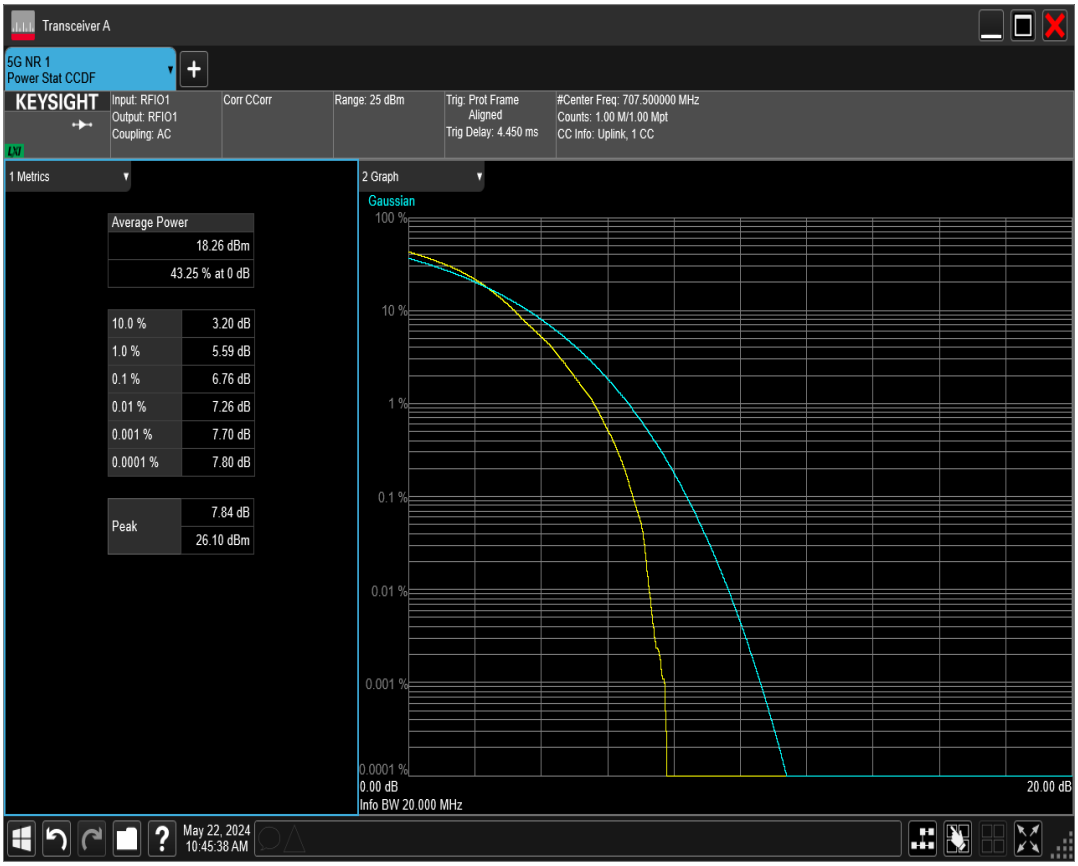
n12 SCS=30kHz DFT_QAM16 BW=15MHz Channel=141500 RB=36@0



n12 SCS=30kHz DFT_QAM64 BW=15MHz Channel=141500 RB=36@0



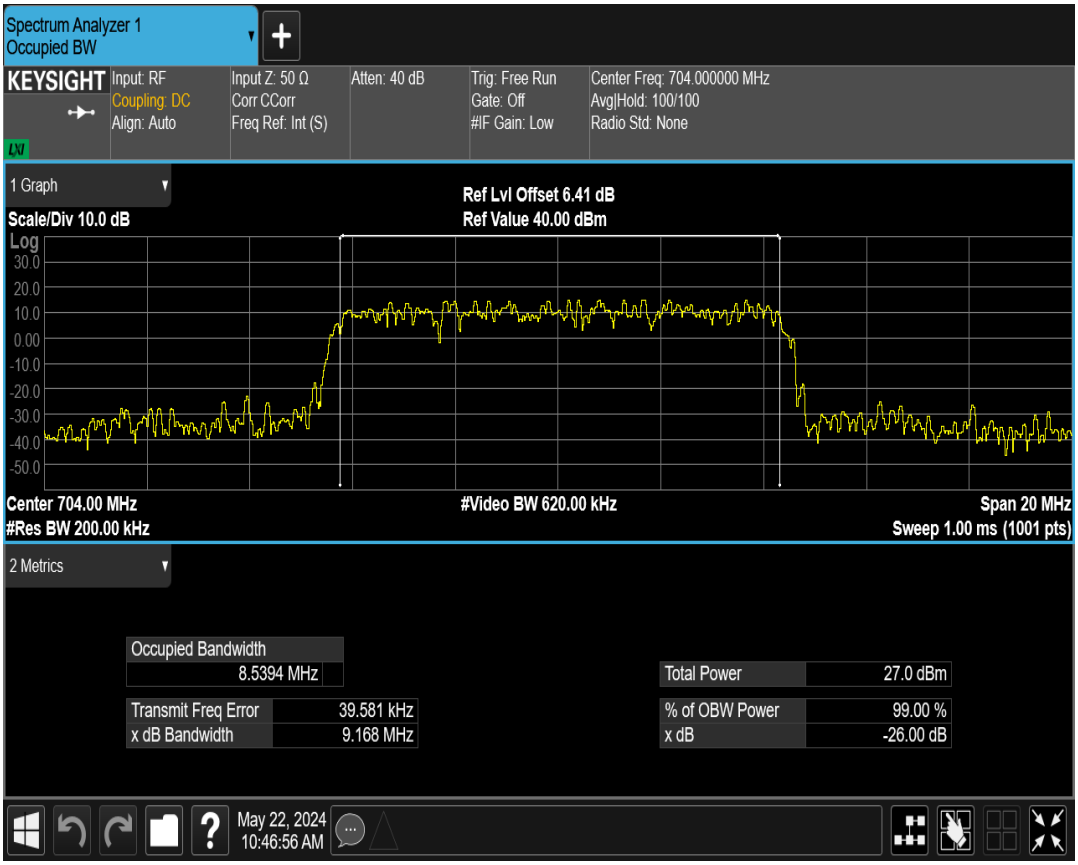
n12 SCS=30kHz DFT_QAM256 BW=15MHz Channel=141500 RB=36@0



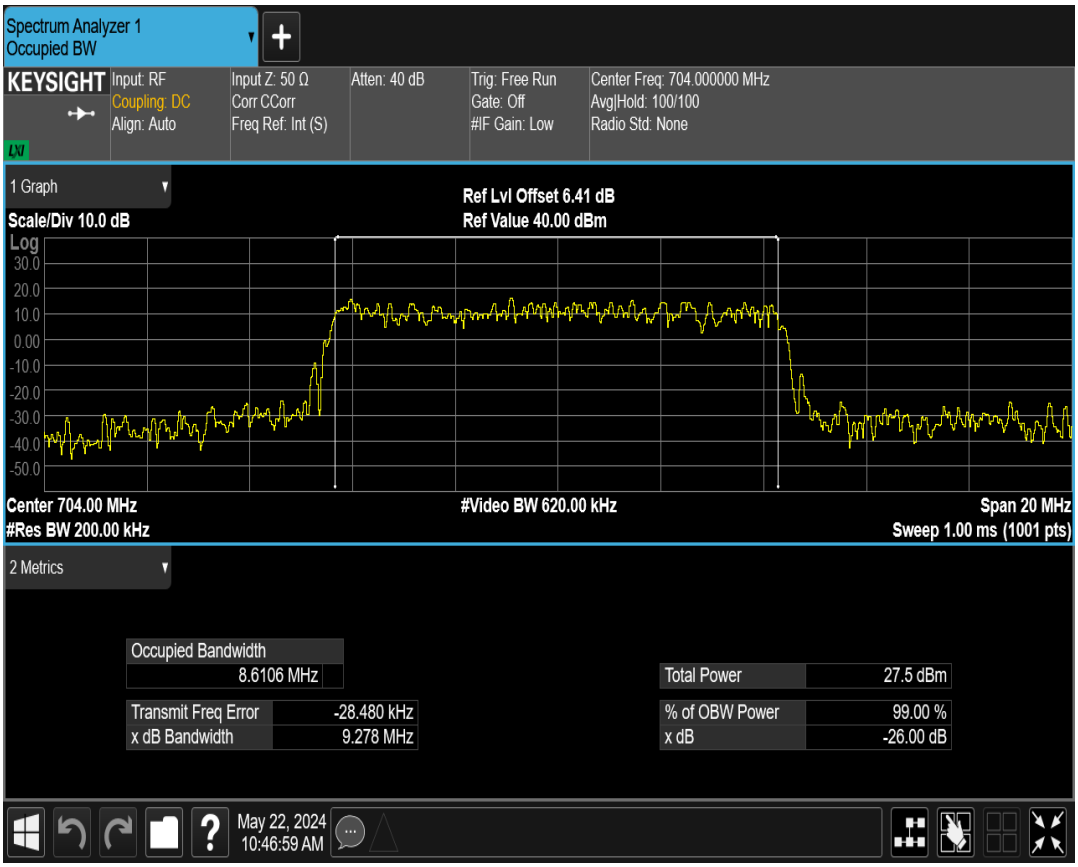
4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n12	30	10	140800	24@0	DFT_BPSK	8.539	9.168	PASS
n12	30	10	140800	24@0	DFT_QPSK	8.611	9.278	PASS
n12	30	10	140800	24@0	DFT_QAM16	8.644	9.112	PASS
n12	30	10	140800	24@0	DFT_QAM64	8.624	9.426	PASS
n12	30	10	140800	24@0	DFT_QAM256	8.570	9.178	PASS
n12	30	10	140800	24@0	CP_QPSK	8.668	9.096	PASS
n12	30	10	141500	24@0	DFT_BPSK	8.567	9.278	PASS
n12	30	10	141500	24@0	DFT_QPSK	8.449	8.821	PASS
n12	30	10	141500	24@0	DFT_QAM16	8.569	9.097	PASS
n12	30	10	141500	24@0	DFT_QAM64	8.564	9.115	PASS
n12	30	10	141500	24@0	DFT_QAM256	8.595	9.150	PASS
n12	30	10	141500	24@0	CP_QPSK	8.590	9.103	PASS
n12	30	10	142200	24@0	DFT_BPSK	8.627	9.283	PASS
n12	30	10	142200	24@0	DFT_QPSK	8.604	9.063	PASS
n12	30	10	142200	24@0	DFT_QAM16	8.576	9.176	PASS
n12	30	10	142200	24@0	DFT_QAM64	8.583	9.291	PASS
n12	30	10	142200	24@0	DFT_QAM256	8.660	9.219	PASS
n12	30	10	142200	24@0	CP_QPSK	8.620	9.413	PASS
n12	30	15	141300	36@0	DFT_BPSK	12.794	13.594	PASS
n12	30	15	141300	36@0	DFT_QPSK	12.918	13.809	PASS
n12	30	15	141300	36@0	DFT_QAM16	12.821	13.614	PASS
n12	30	15	141300	36@0	DFT_QAM64	12.913	13.714	PASS
n12	30	15	141300	36@0	DFT_QAM256	12.985	13.590	PASS
n12	30	15	141300	38@0	CP_QPSK	13.674	14.441	PASS
n12	30	15	141500	36@0	DFT_BPSK	12.961	13.563	PASS
n12	30	15	141500	36@0	DFT_QPSK	12.796	13.688	PASS
n12	30	15	141500	36@0	DFT_QAM16	12.943	13.704	PASS
n12	30	15	141500	36@0	DFT_QAM64	12.909	13.880	PASS
n12	30	15	141500	36@0	DFT_QAM256	12.969	13.652	PASS
n12	30	15	141500	38@0	CP_QPSK	13.723	14.398	PASS
n12	30	15	141700	36@0	DFT_BPSK	12.957	13.677	PASS
n12	30	15	141700	36@0	DFT_QPSK	12.751	13.716	PASS
n12	30	15	141700	36@0	DFT_QAM16	12.799	13.711	PASS
n12	30	15	141700	36@0	DFT_QAM64	12.785	13.550	PASS
n12	30	15	141700	36@0	DFT_QAM256	12.974	13.520	PASS
n12	30	15	141700	38@0	CP_QPSK	12.903	13.760	PASS

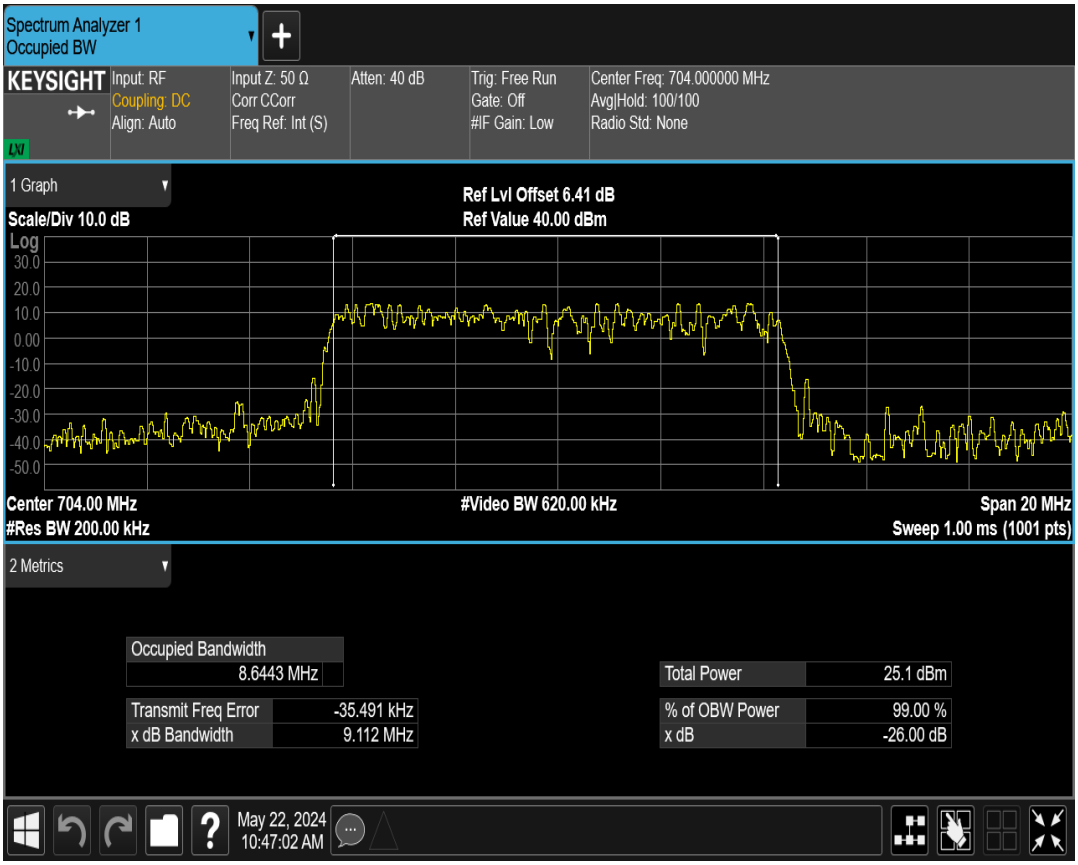
n12 SCS=30kHz DFT_BPSK BW=10MHz Channel=140800 RB=24@0



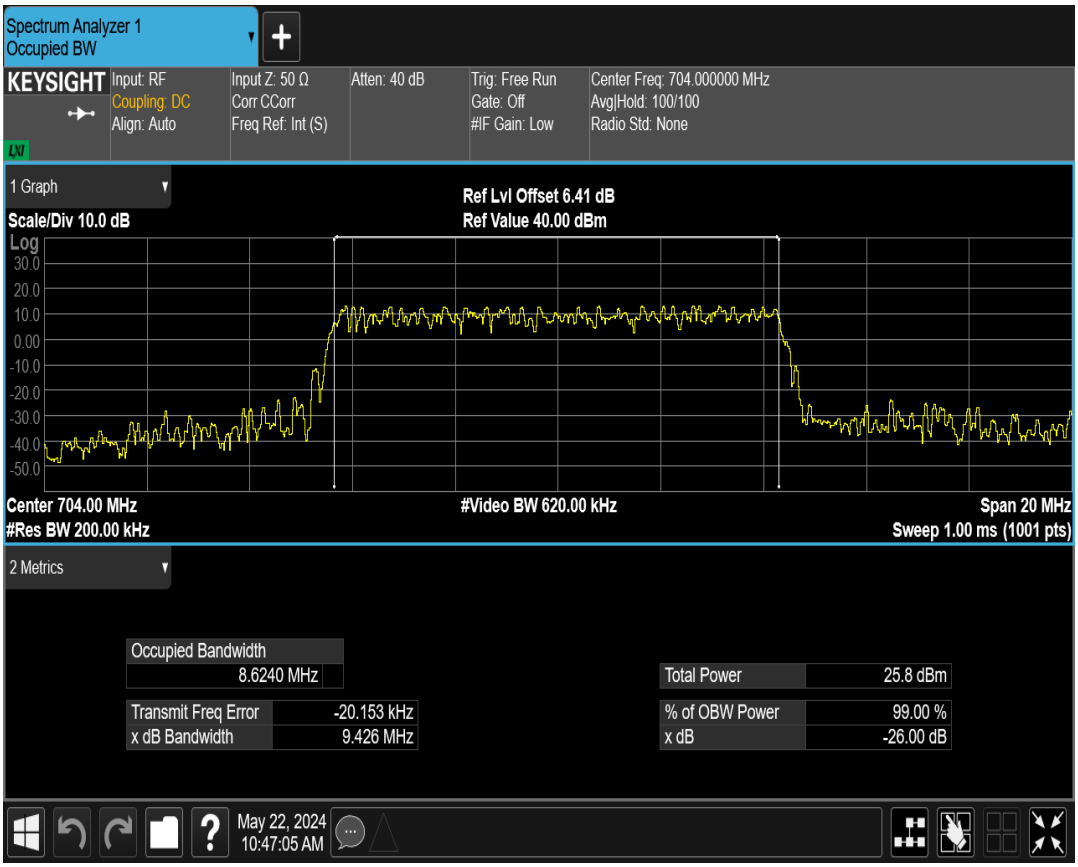
n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=24@0



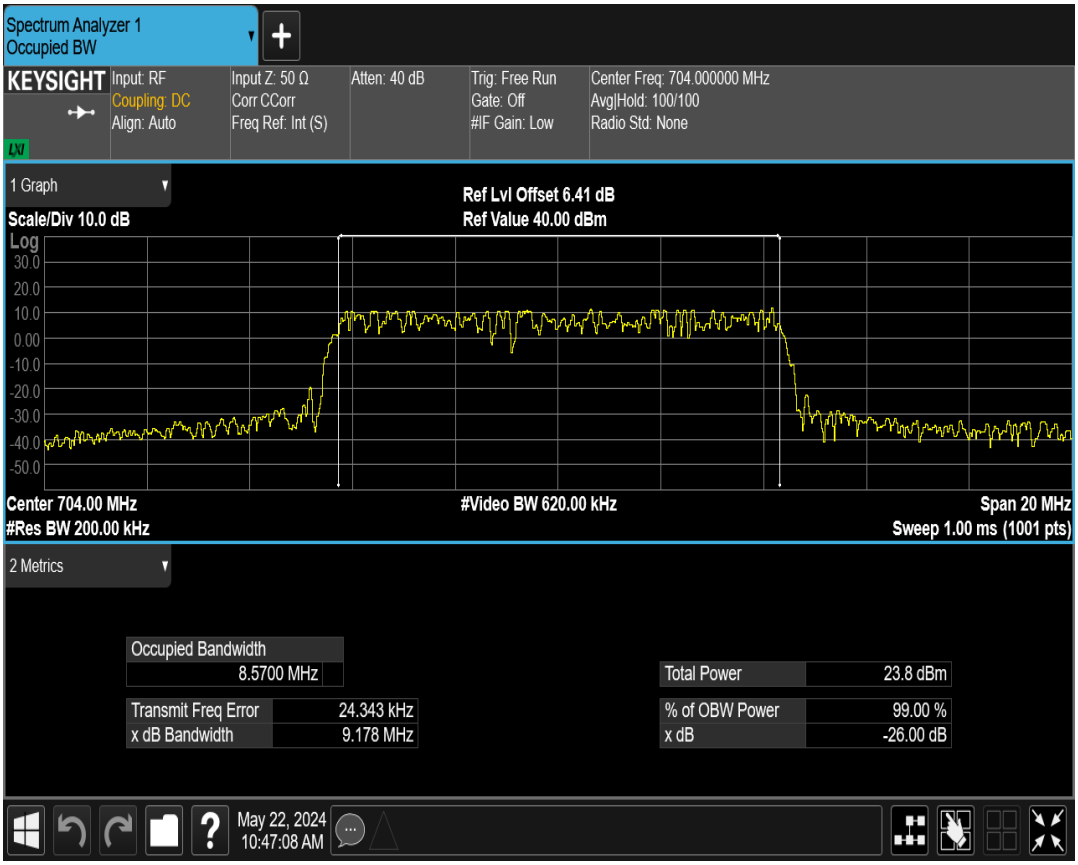
n12 SCS=30kHz DFT_QAM16 BW=10MHz Channel=140800 RB=24@0



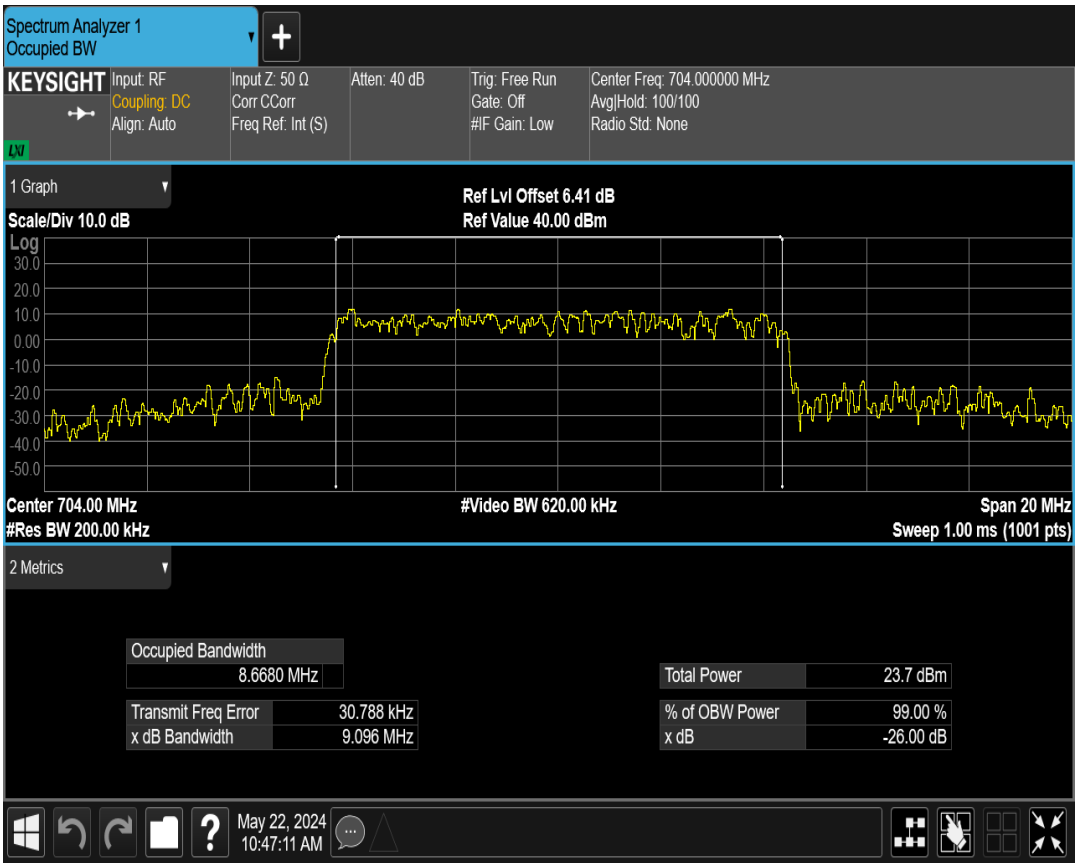
n12 SCS=30kHz DFT_QAM64 BW=10MHz Channel=140800 RB=24@0



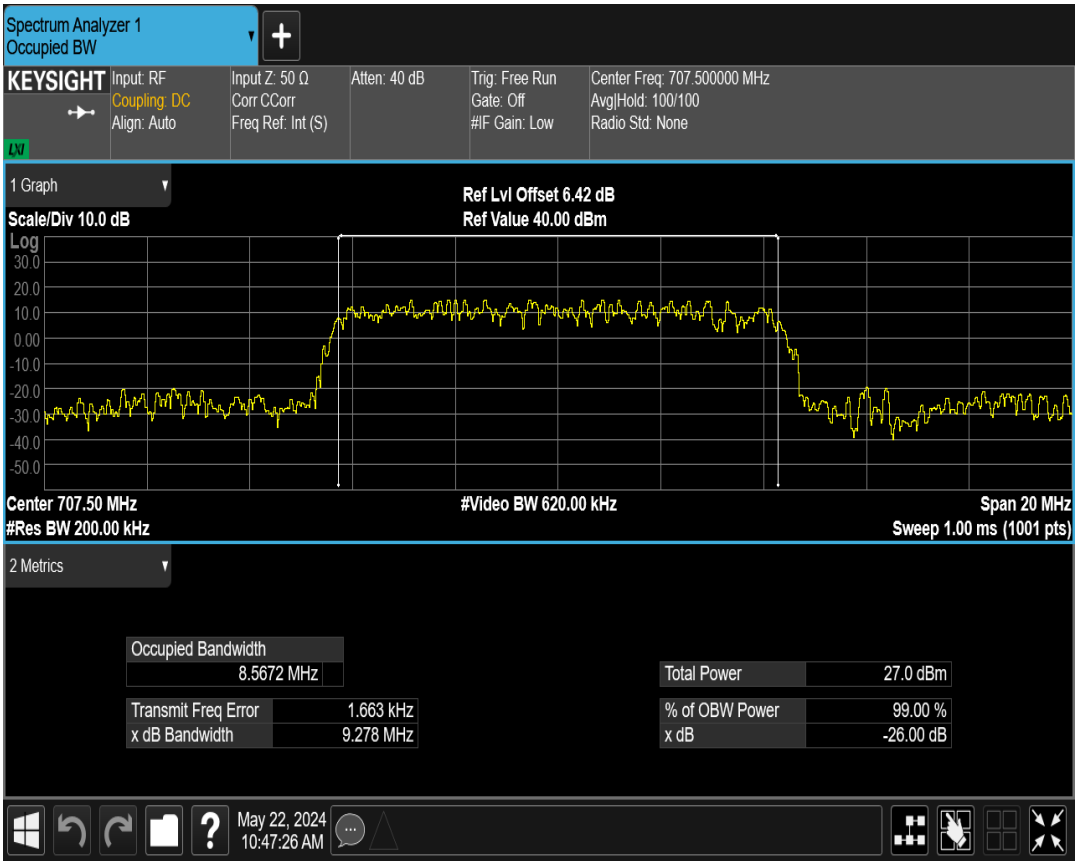
n12 SCS=30kHz DFT_QAM256 BW=10MHz Channel=140800 RB=24@0



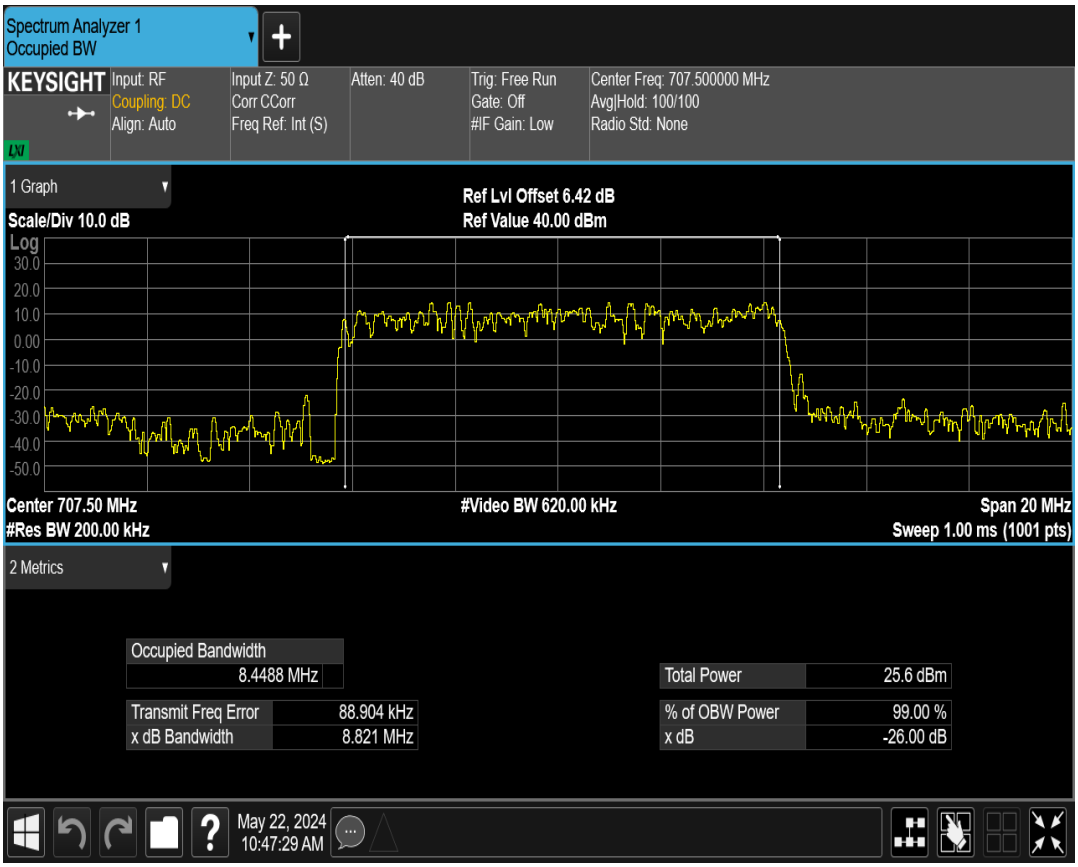
n12 SCS=30kHz CP_QPSK BW=10MHz Channel=140800 RB=24@0



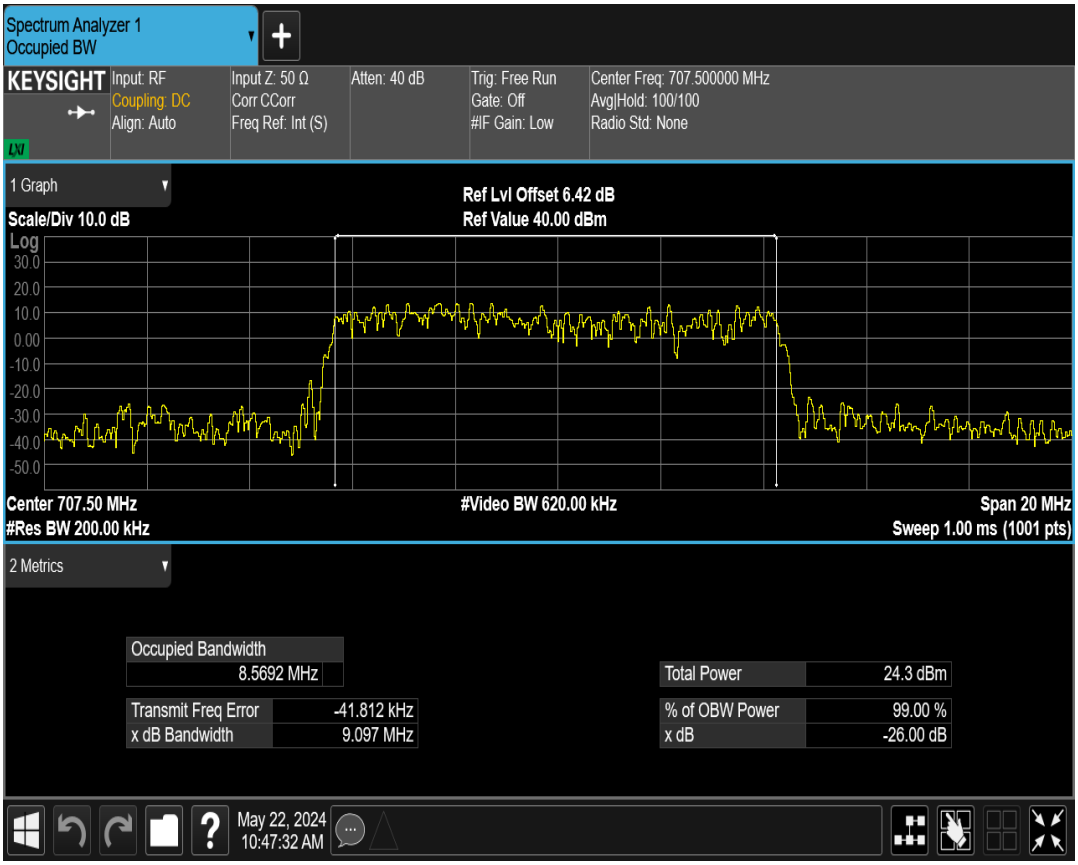
n12 SCS=30kHz DFT_BPSK BW=10MHz Channel=141500 RB=24@0



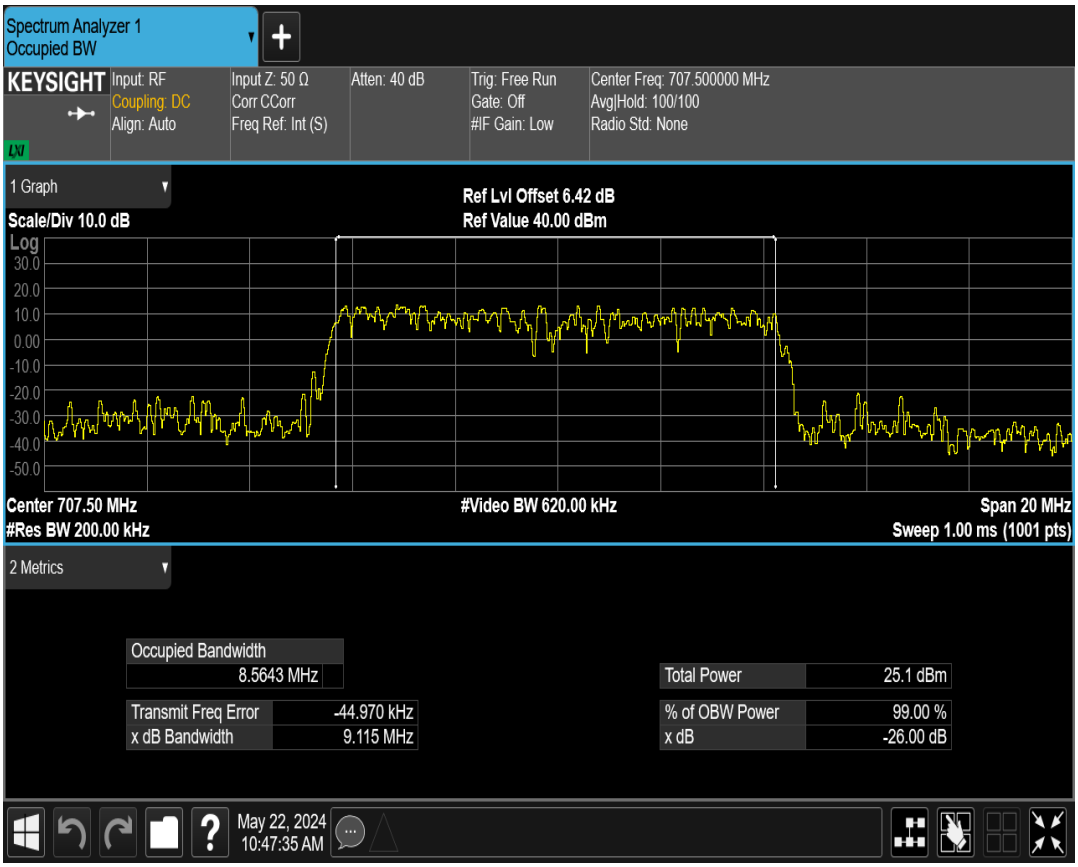
n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=141500 RB=24@0



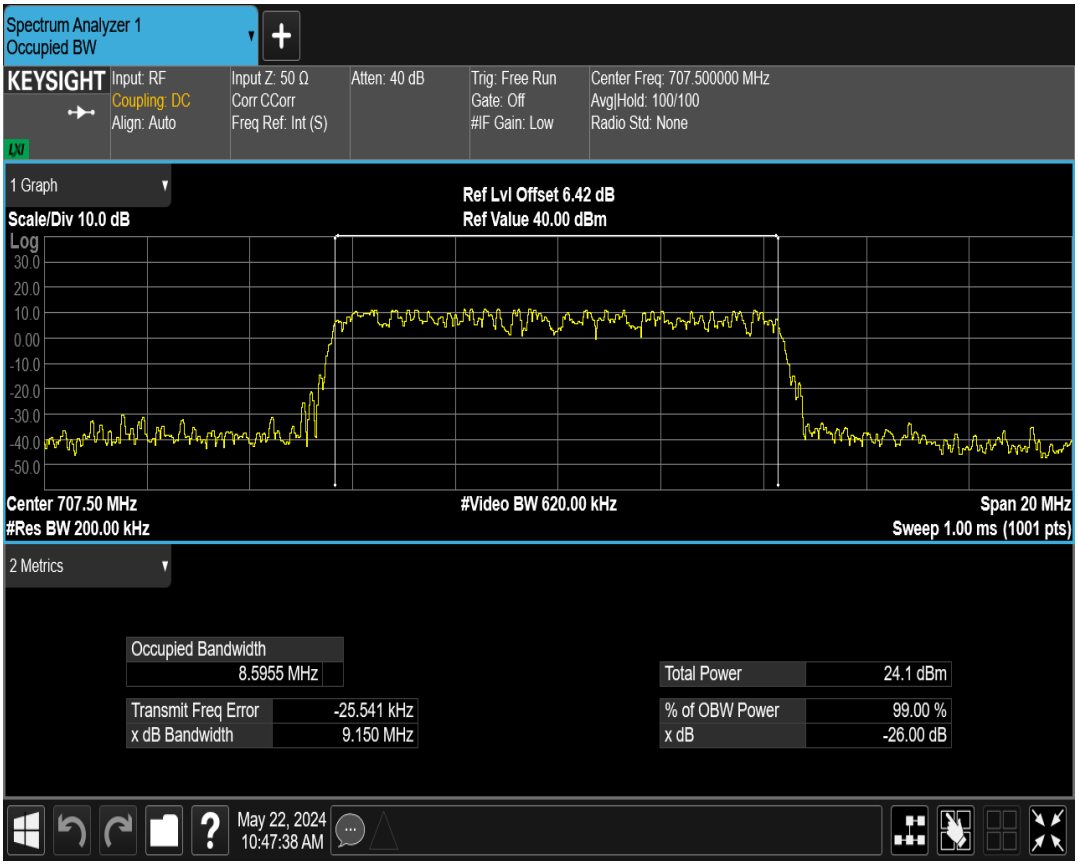
n12 SCS=30kHz DFT_QAM16 BW=10MHz Channel=141500 RB=24@0



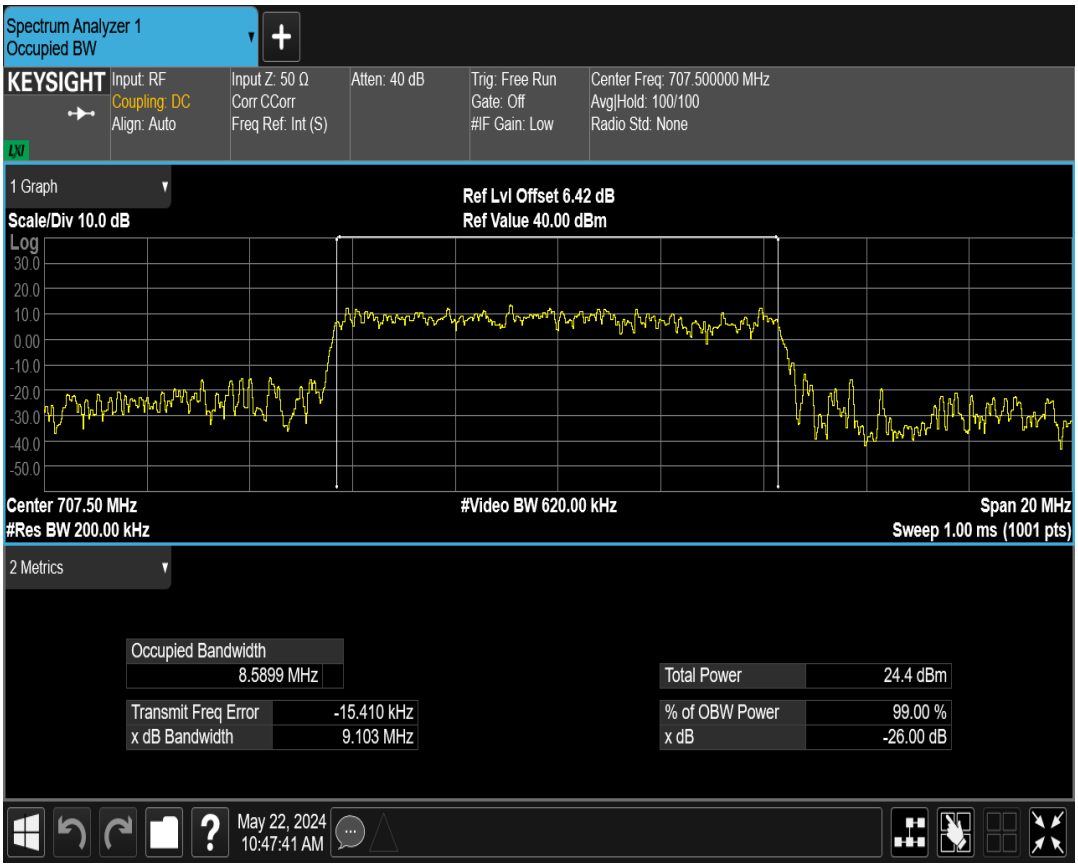
n12 SCS=30kHz DFT_QAM64 BW=10MHz Channel=141500 RB=24@0



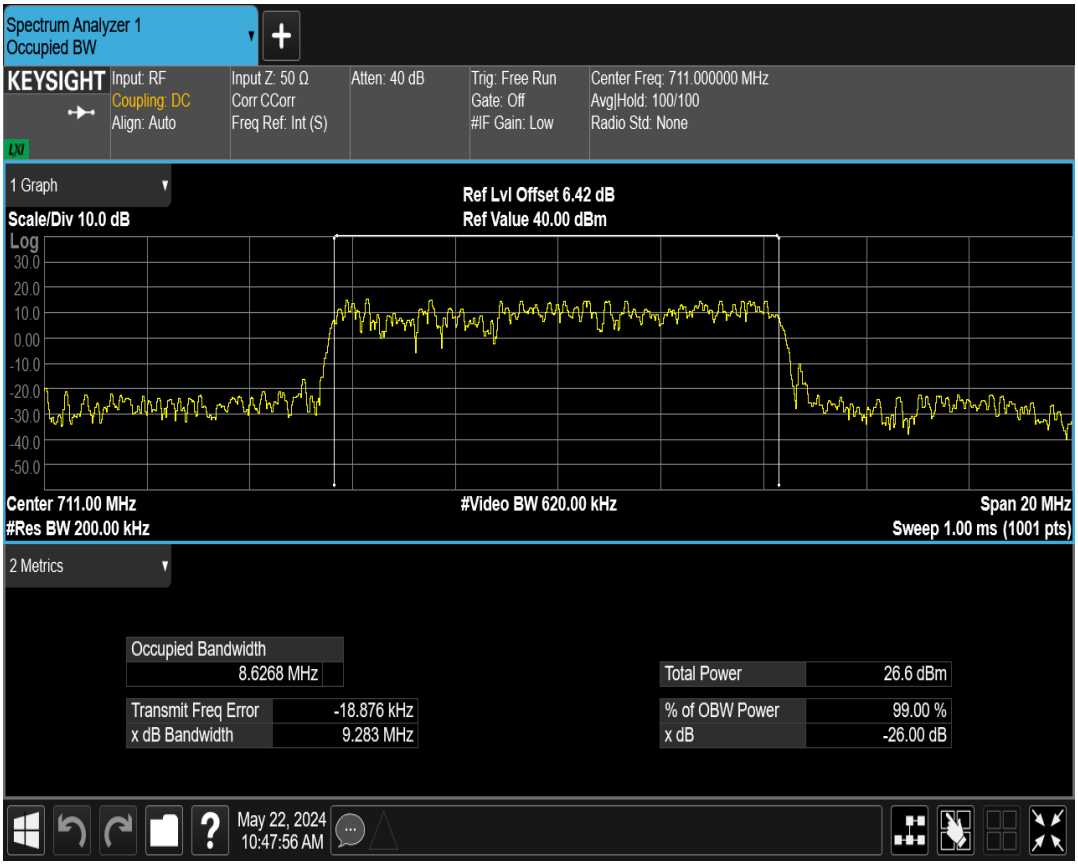
n12 SCS=30kHz DFT_QAM256 BW=10MHz Channel=141500 RB=24@0



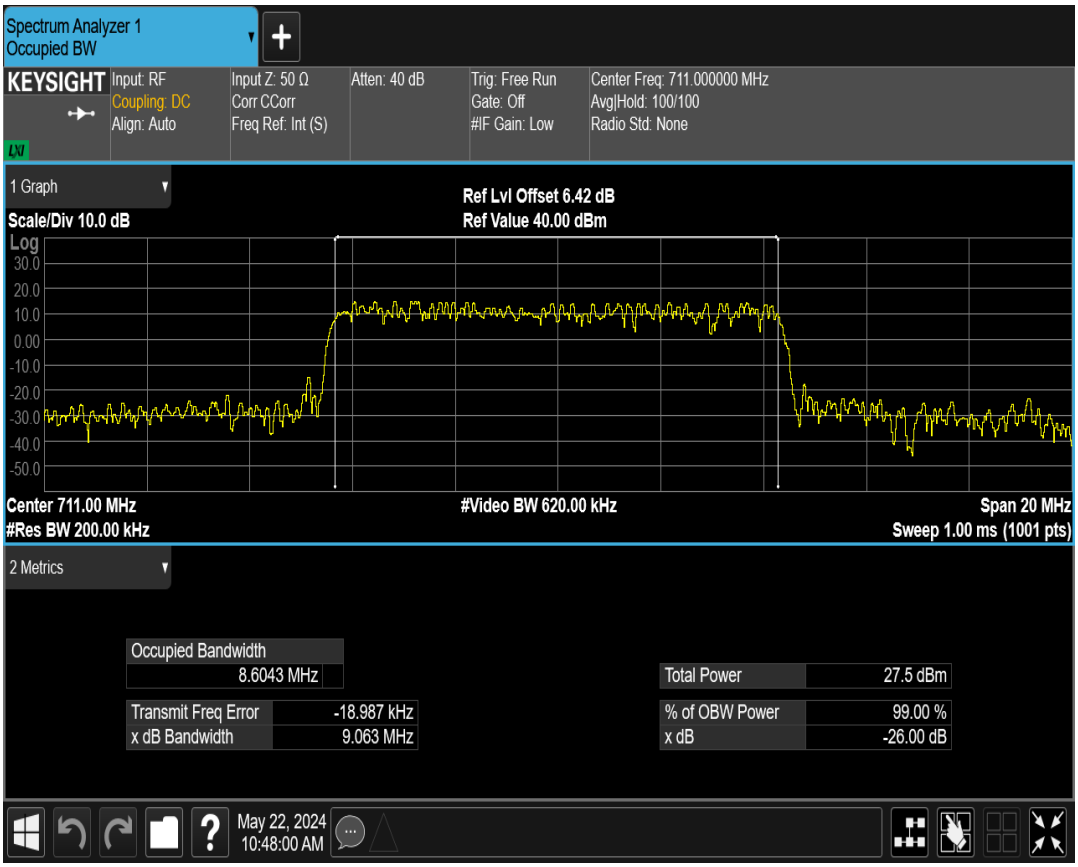
n12 SCS=30kHz CP_QPSK BW=10MHz Channel=141500 RB=24@0



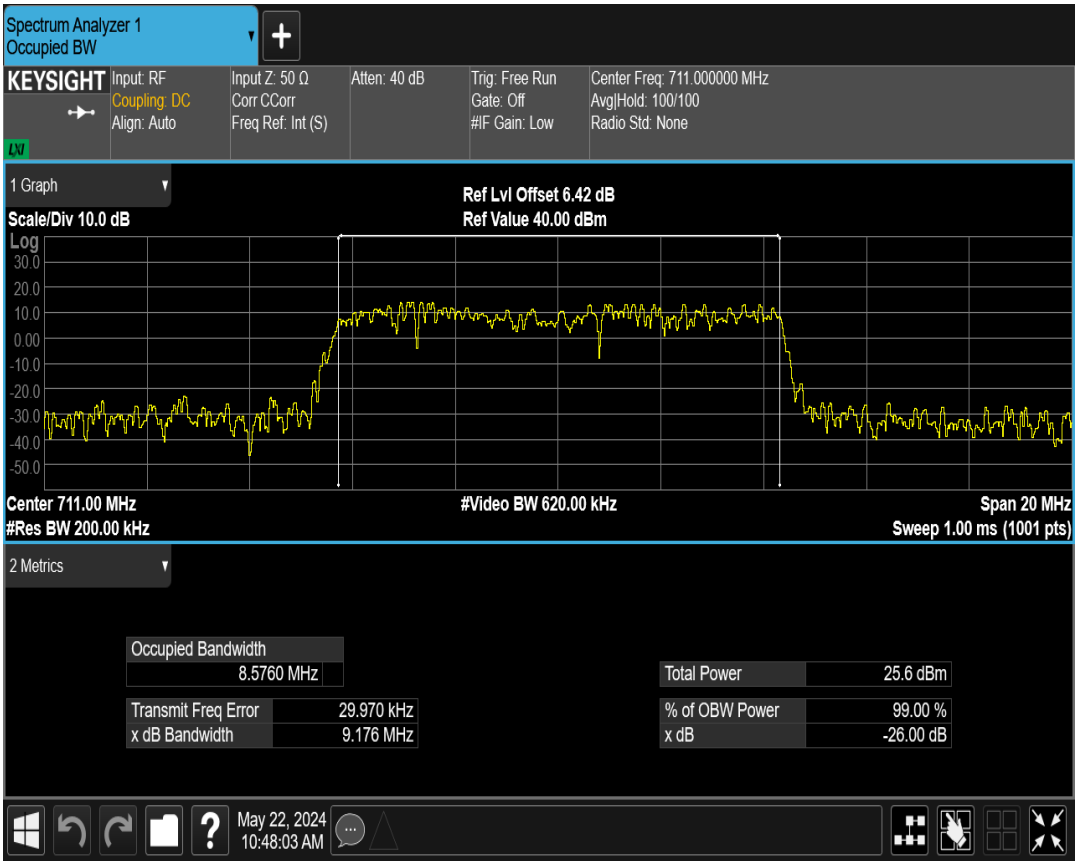
n12 SCS=30kHz DFT_BPSK BW=10MHz Channel=142200 RB=24@0



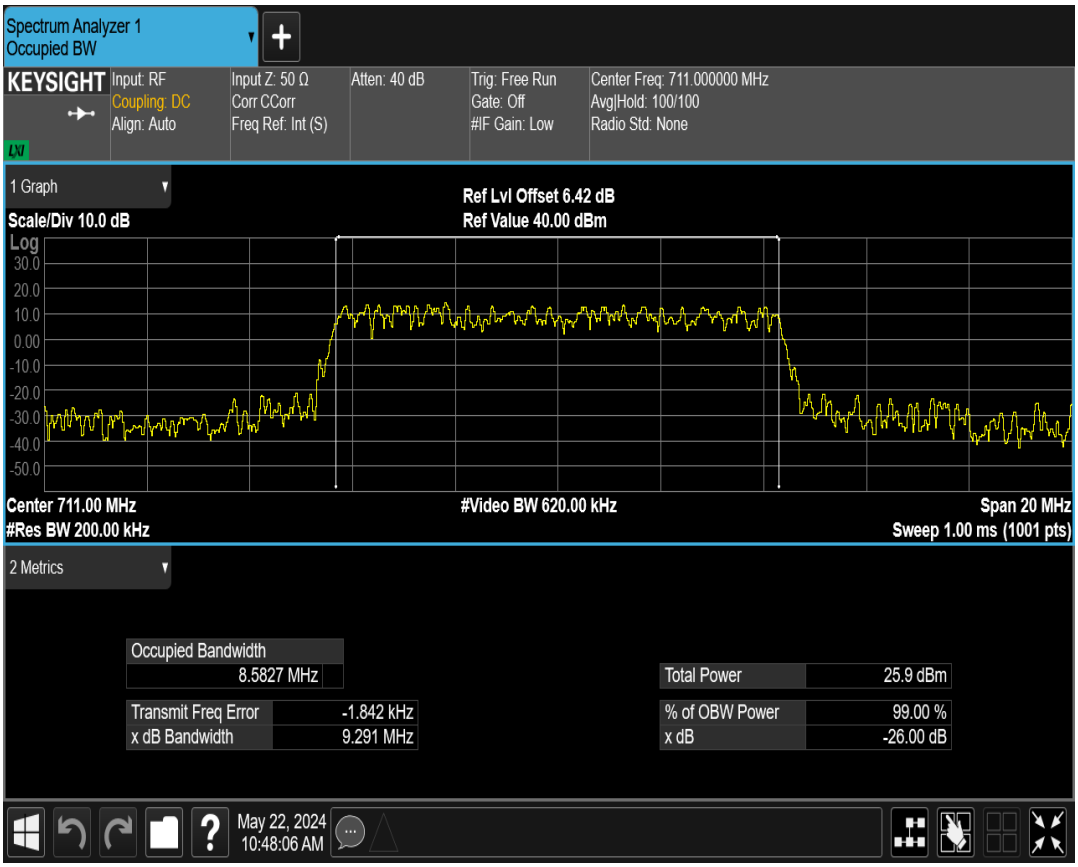
n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=24@0



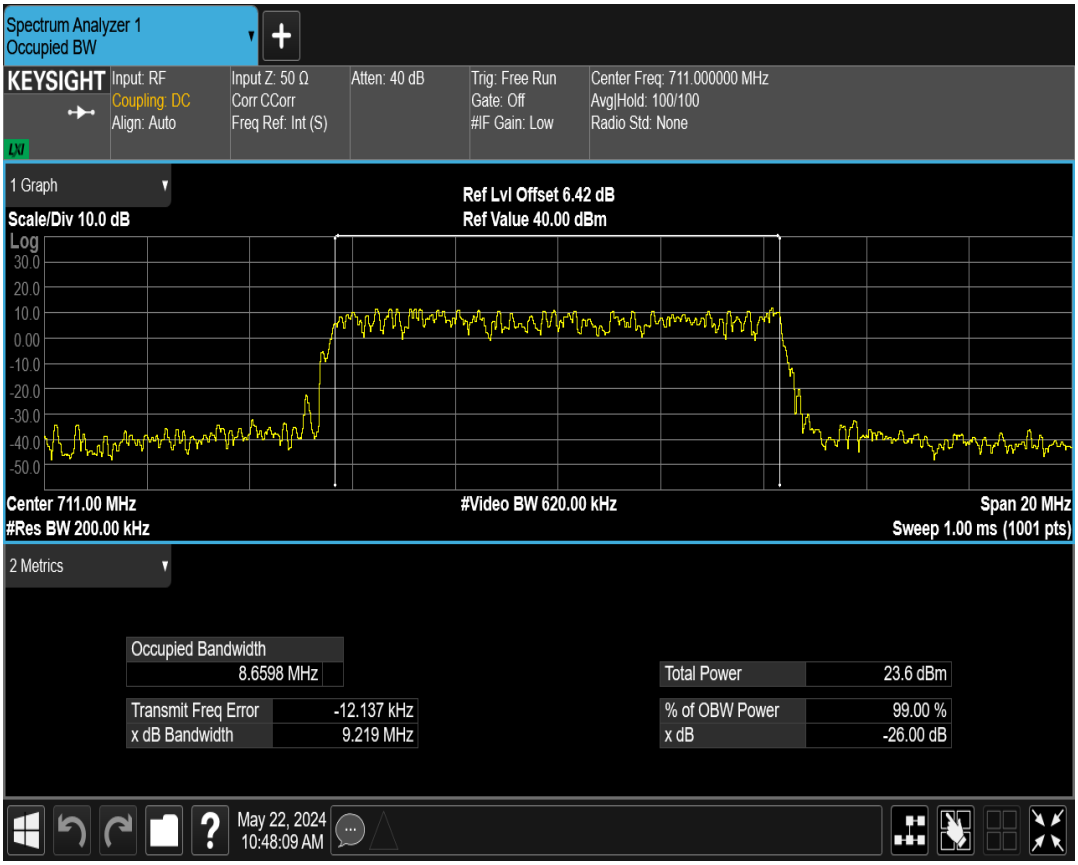
n12 SCS=30kHz DFT_QAM16 BW=10MHz Channel=142200 RB=24@0



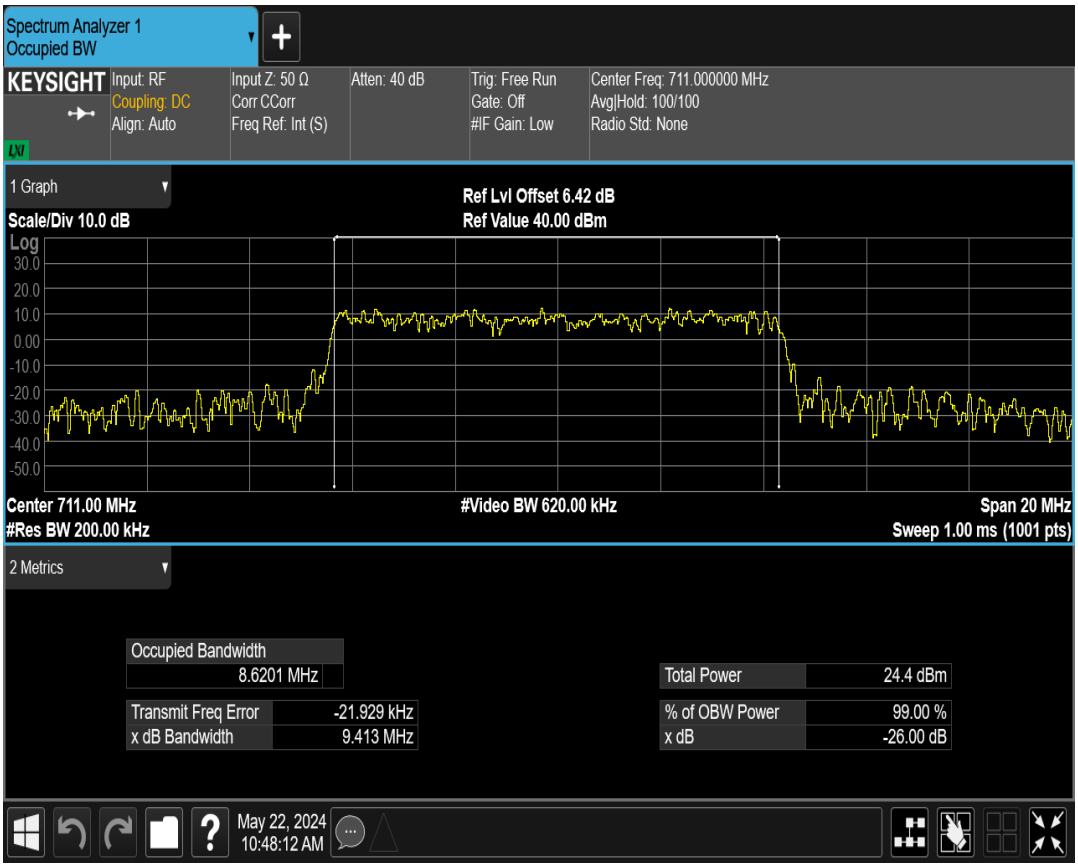
n12 SCS=30kHz DFT_QAM64 BW=10MHz Channel=142200 RB=24@0



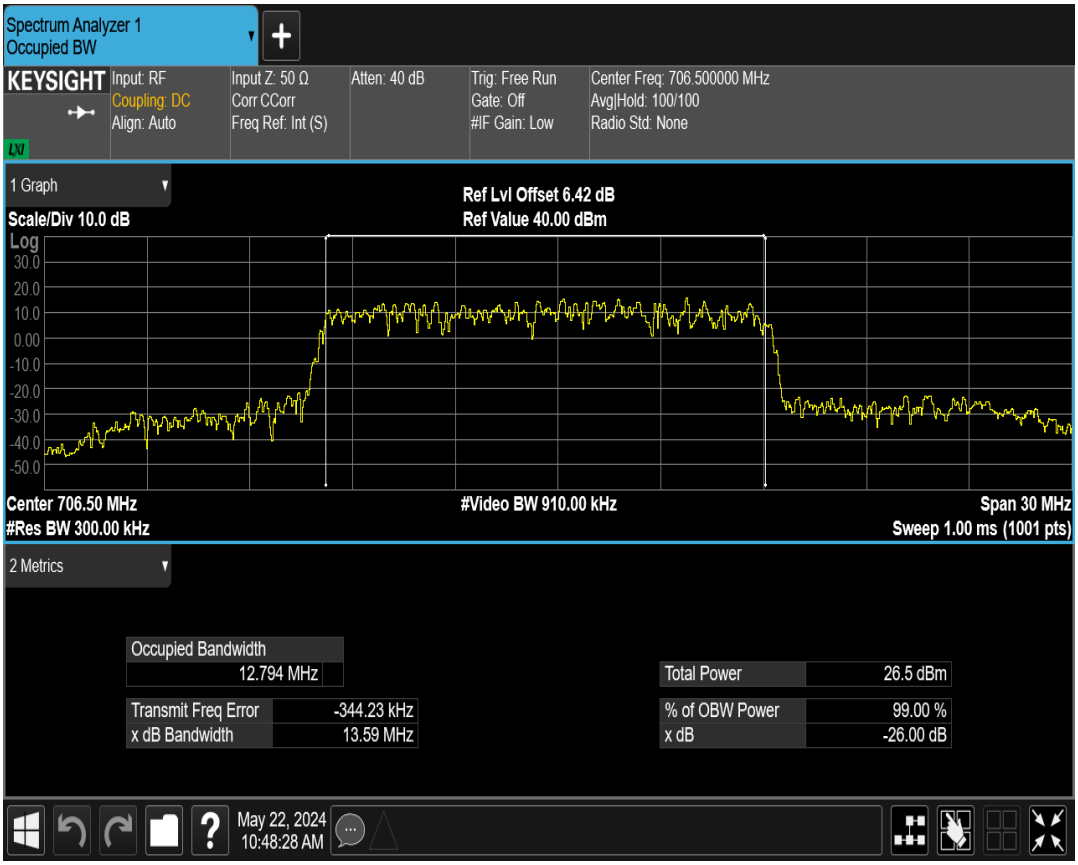
n12 SCS=30kHz DFT_QAM256 BW=10MHz Channel=142200 RB=24@0



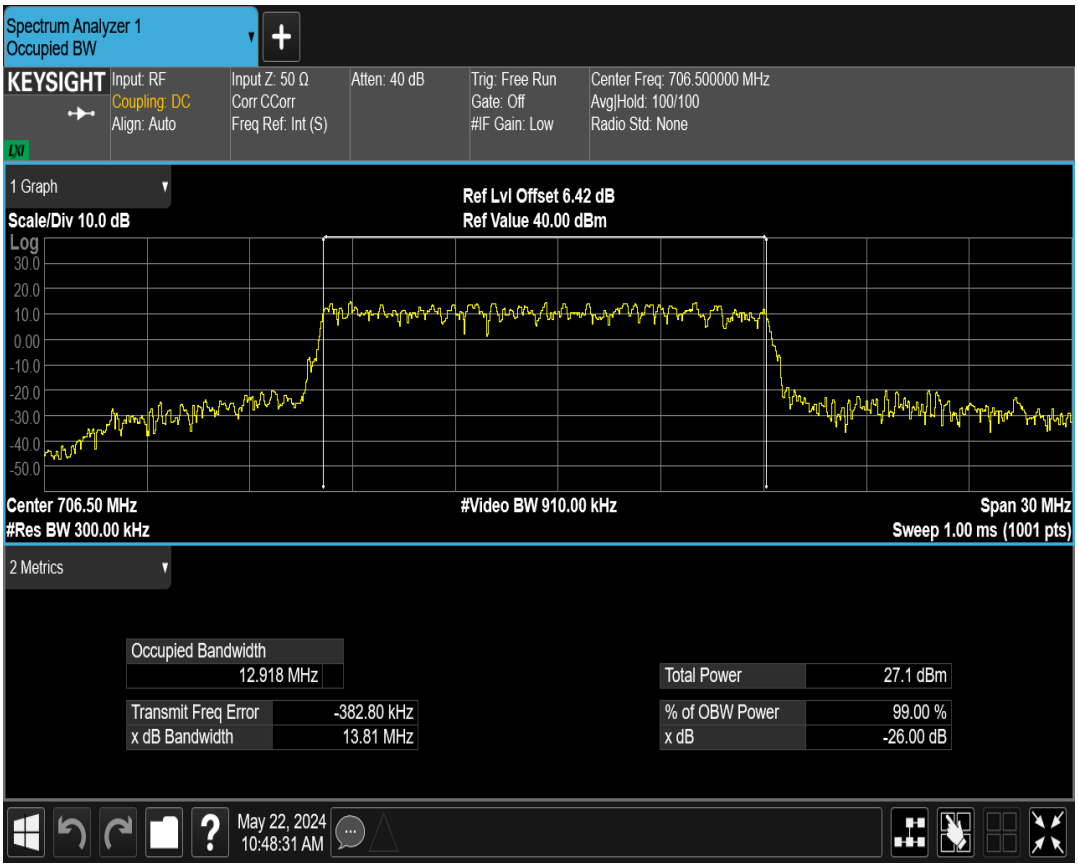
n12 SCS=30kHz CP_QPSK BW=10MHz Channel=142200 RB=24@0



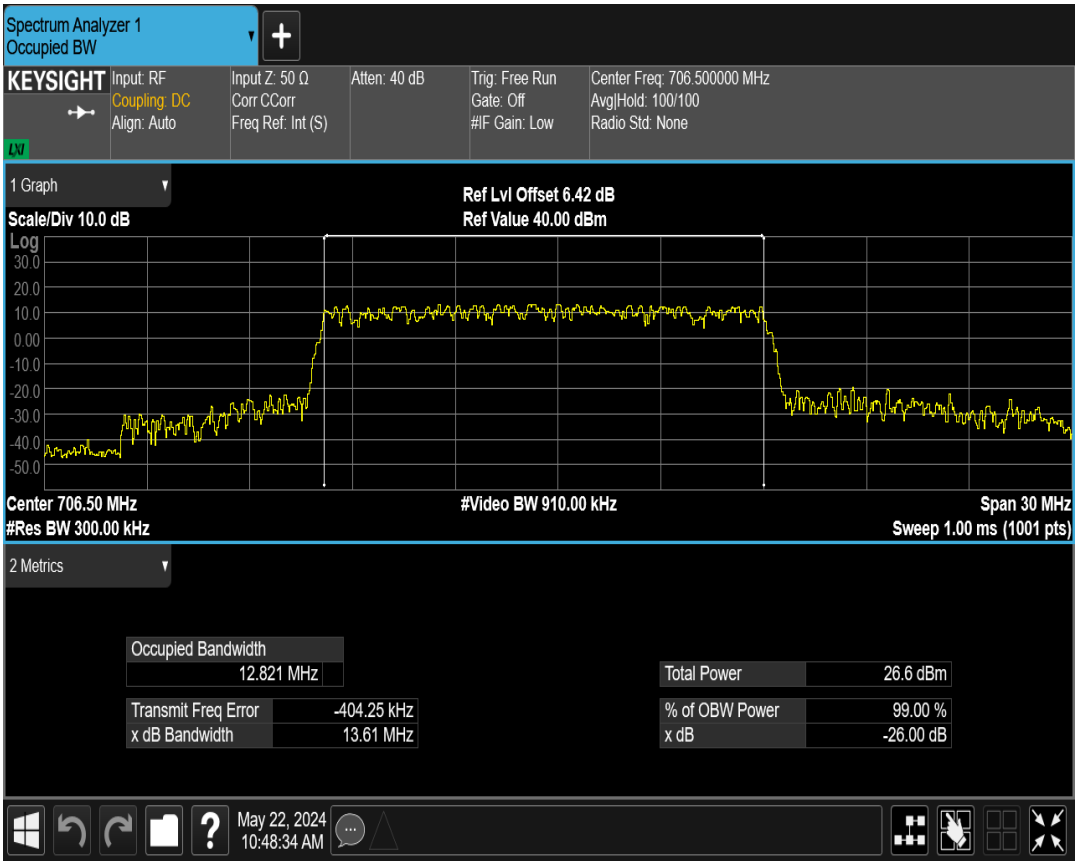
n12 SCS=30kHz DFT_BPSK BW=15MHz Channel=141300 RB=36@0



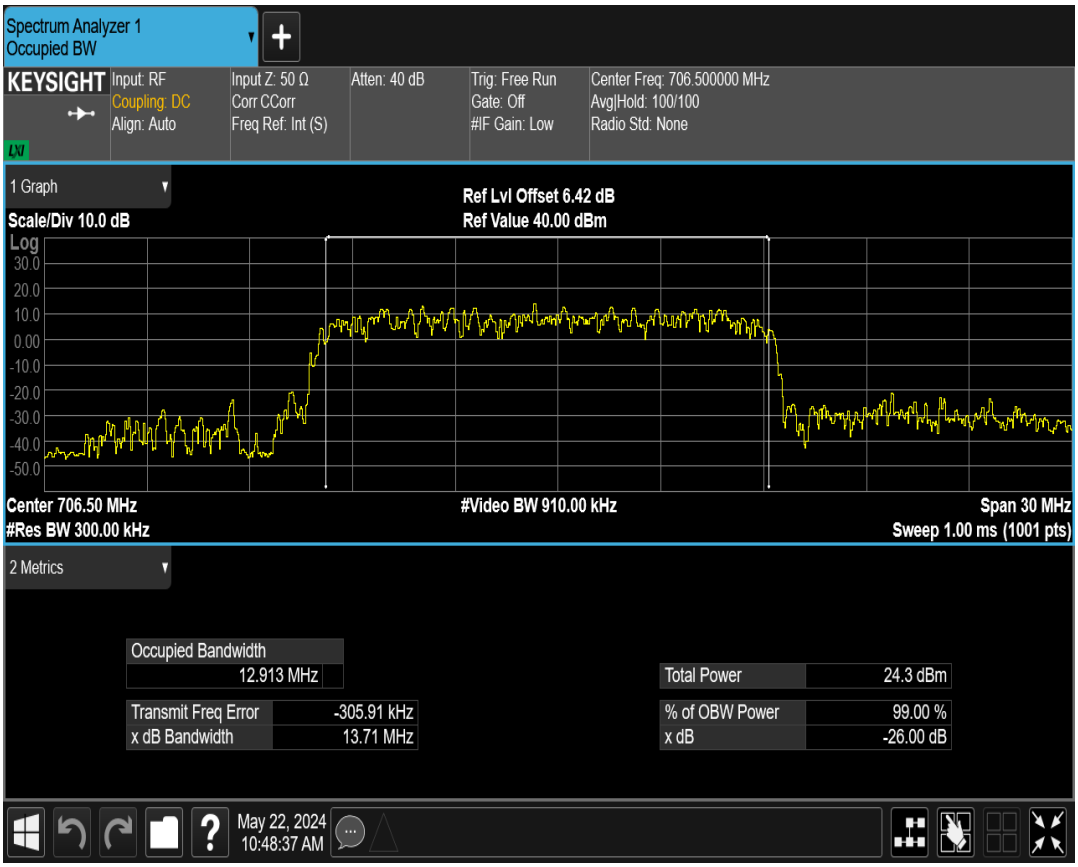
n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=36@0



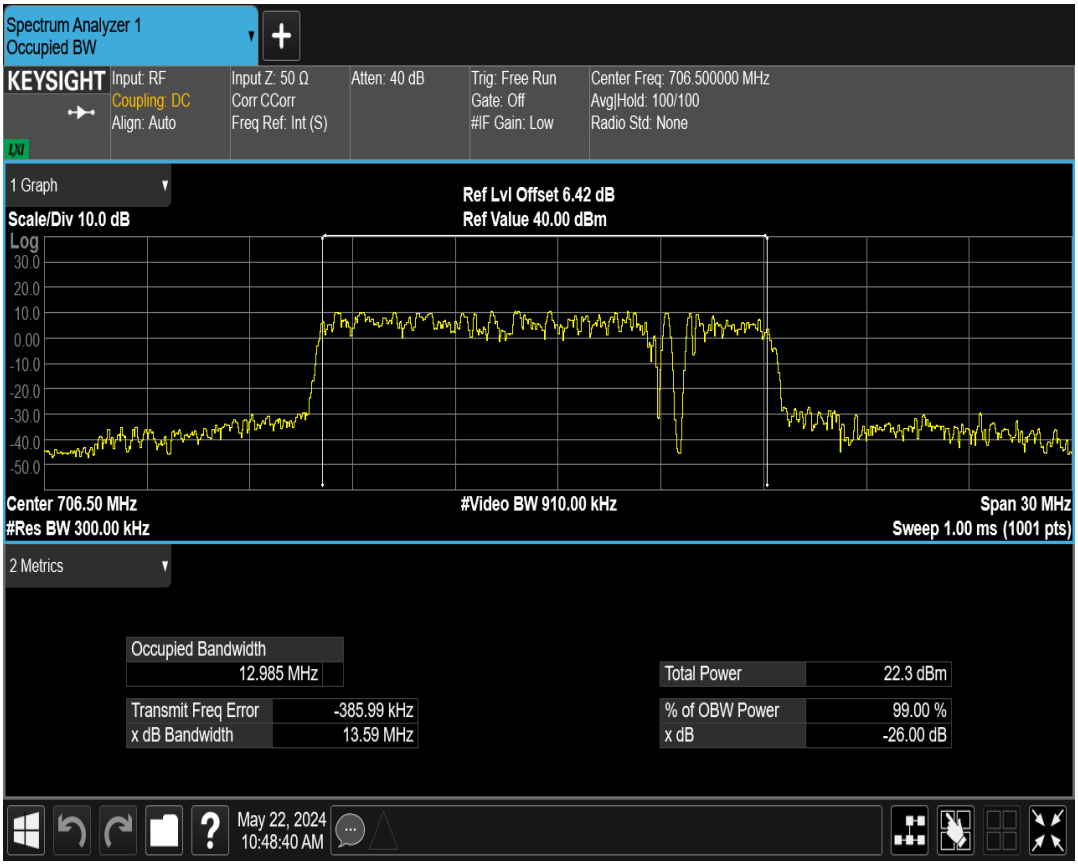
n12 SCS=30kHz DFT_QAM16 BW=15MHz Channel=141300 RB=36@0



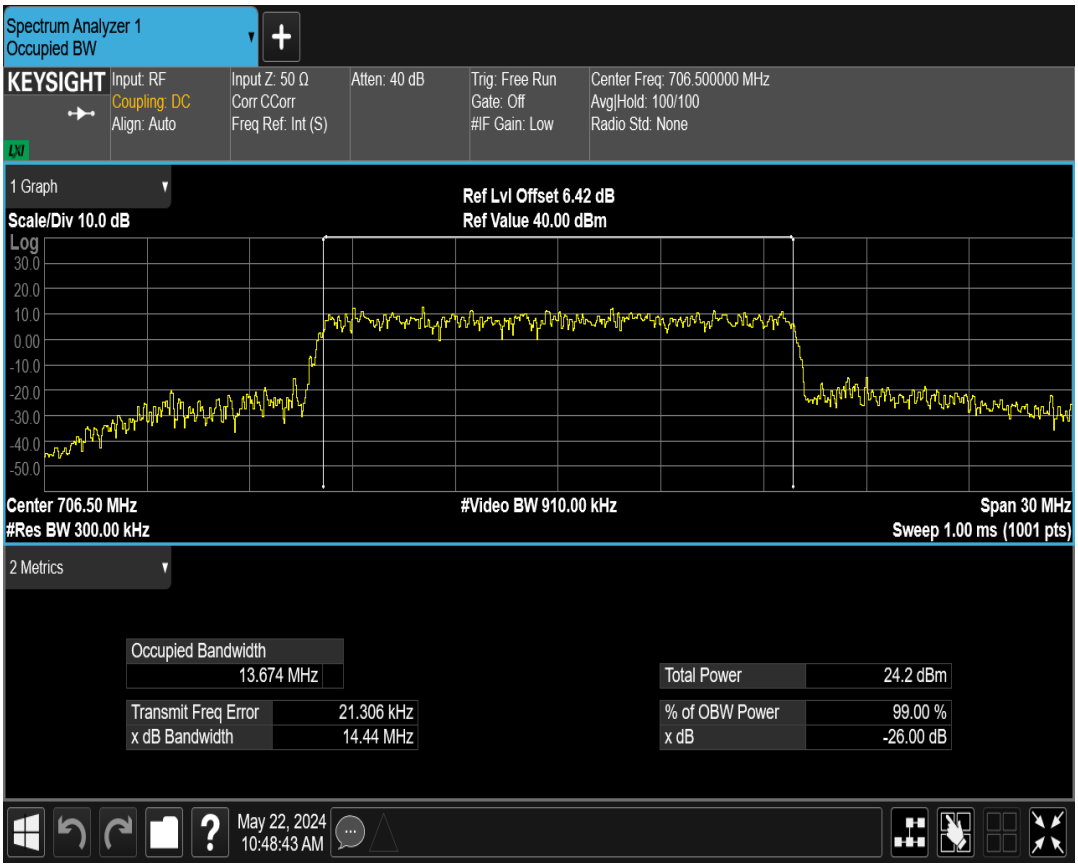
n12 SCS=30kHz DFT_QAM64 BW=15MHz Channel=141300 RB=36@0



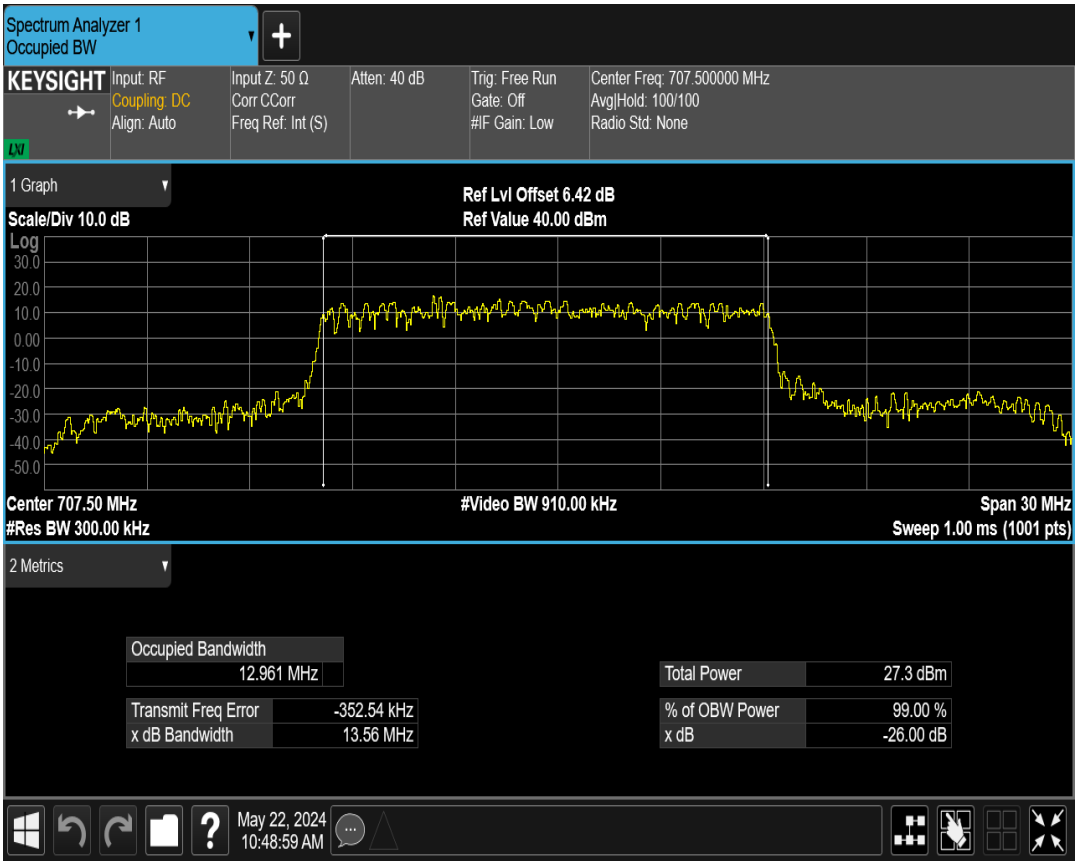
n12 SCS=30kHz DFT_QAM256 BW=15MHz Channel=141300 RB=36@0



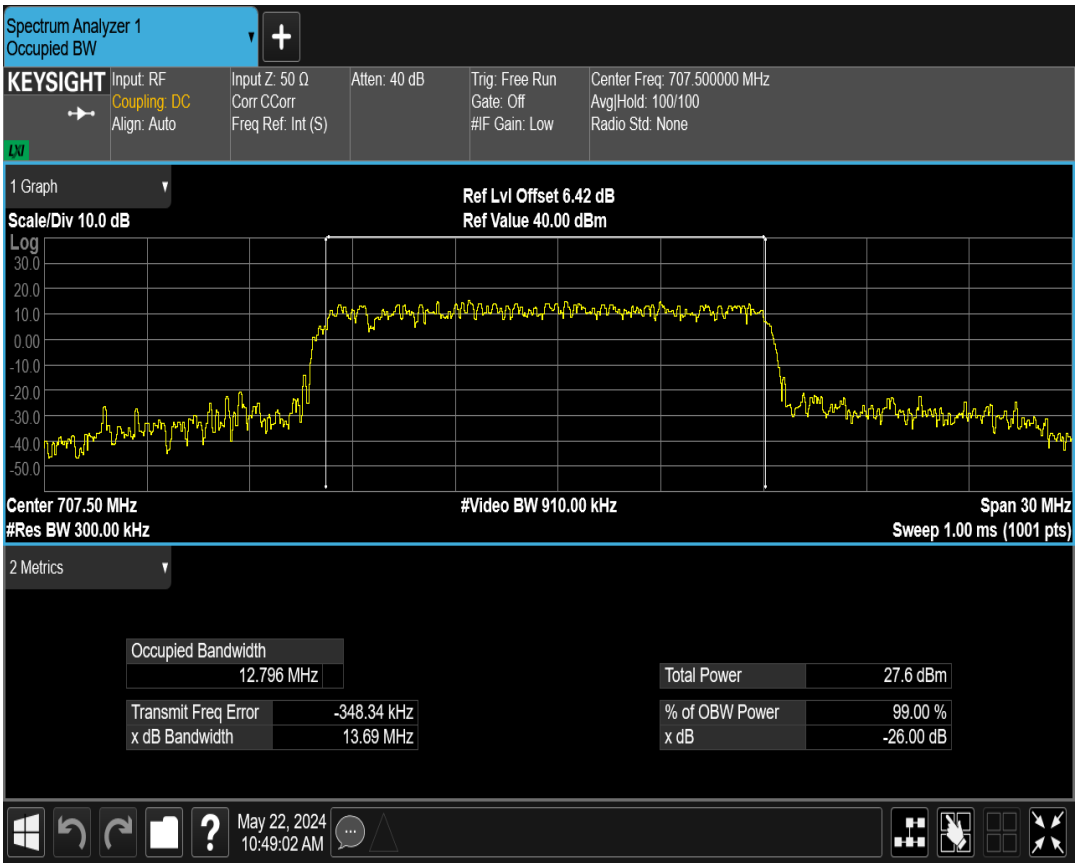
n12 SCS=30kHz CP_QPSK BW=15MHz Channel=141300 RB=38@0



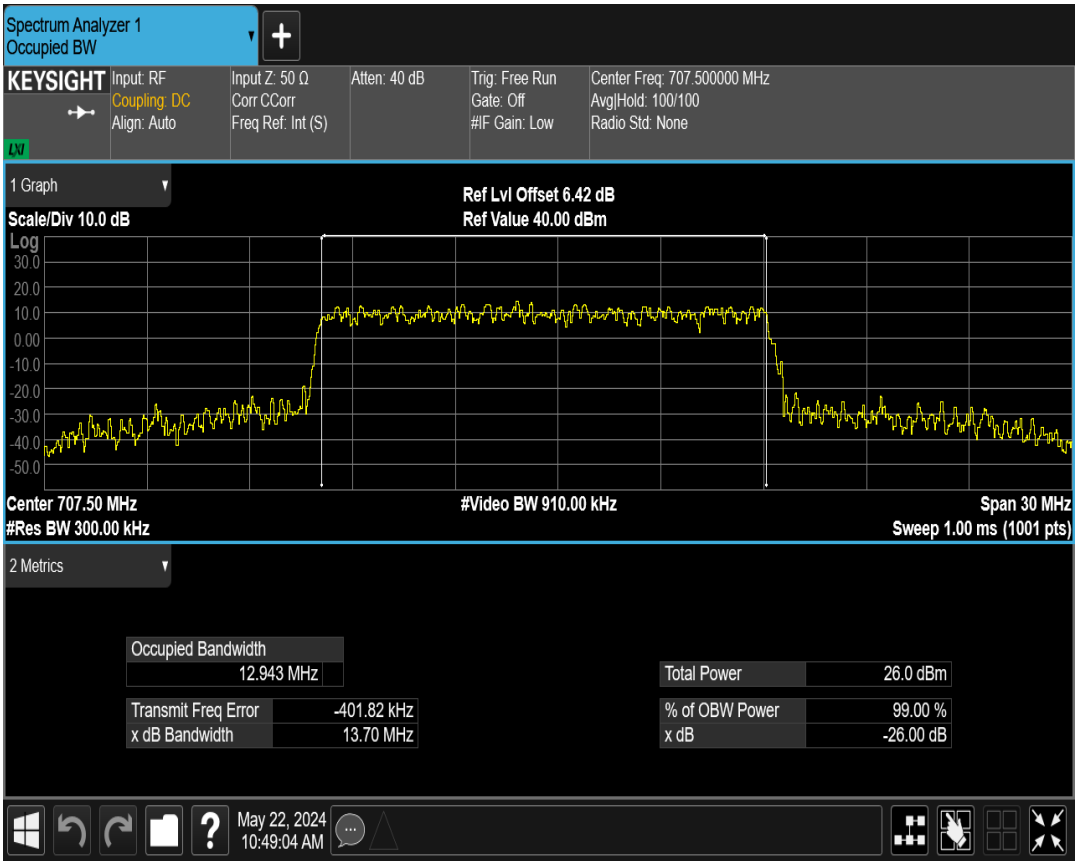
n12 SCS=30kHz DFT_BPSK BW=15MHz Channel=141500 RB=36@0



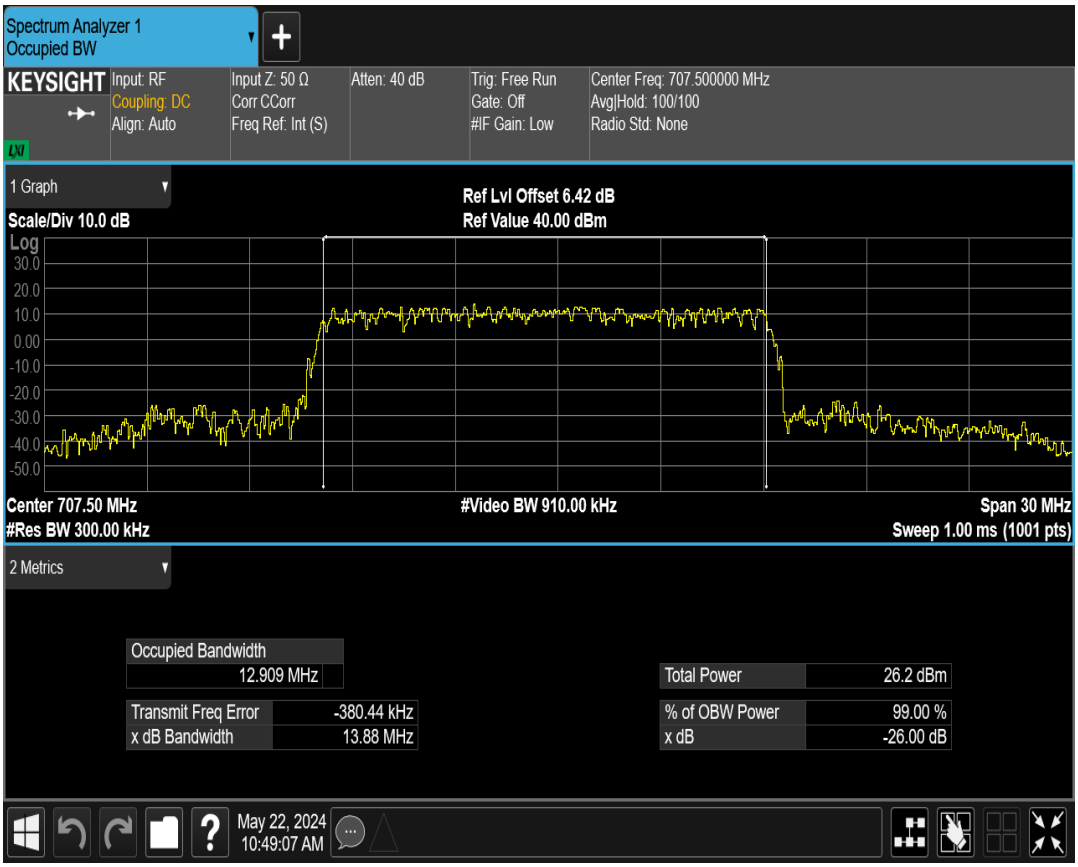
n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141500 RB=36@0



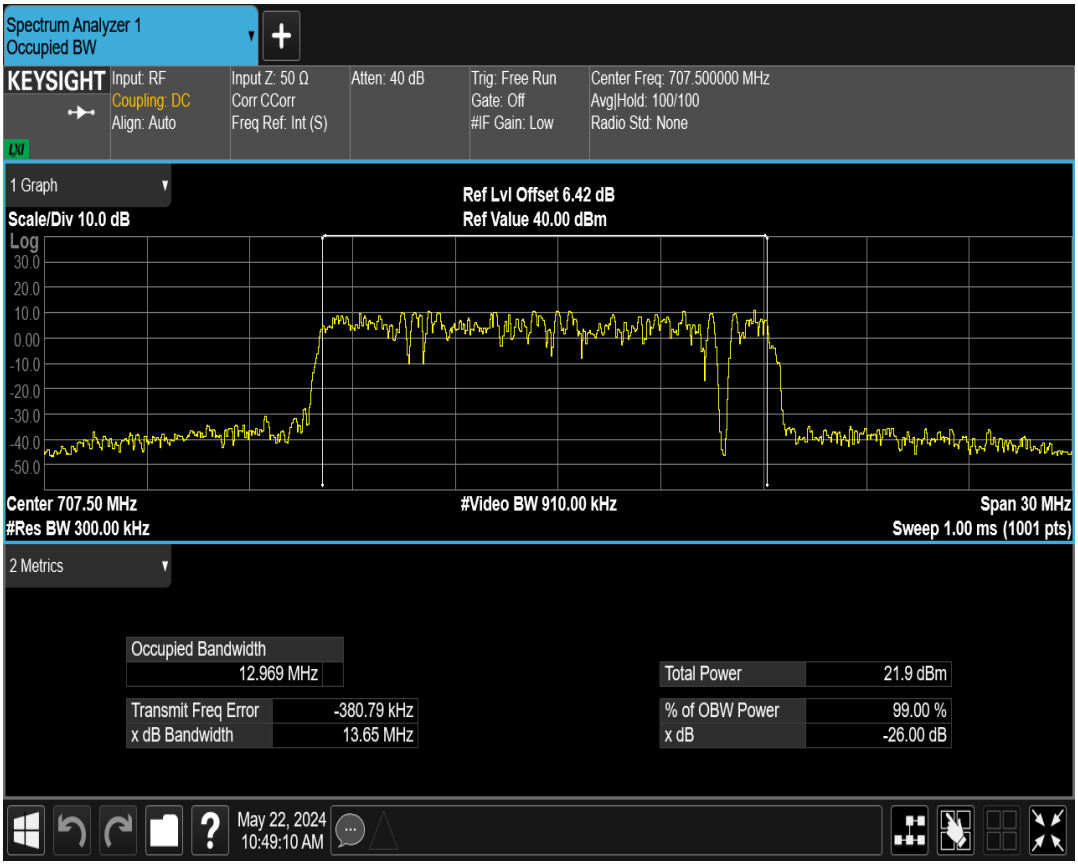
n12 SCS=30kHz DFT_QAM16 BW=15MHz Channel=141500 RB=36@0



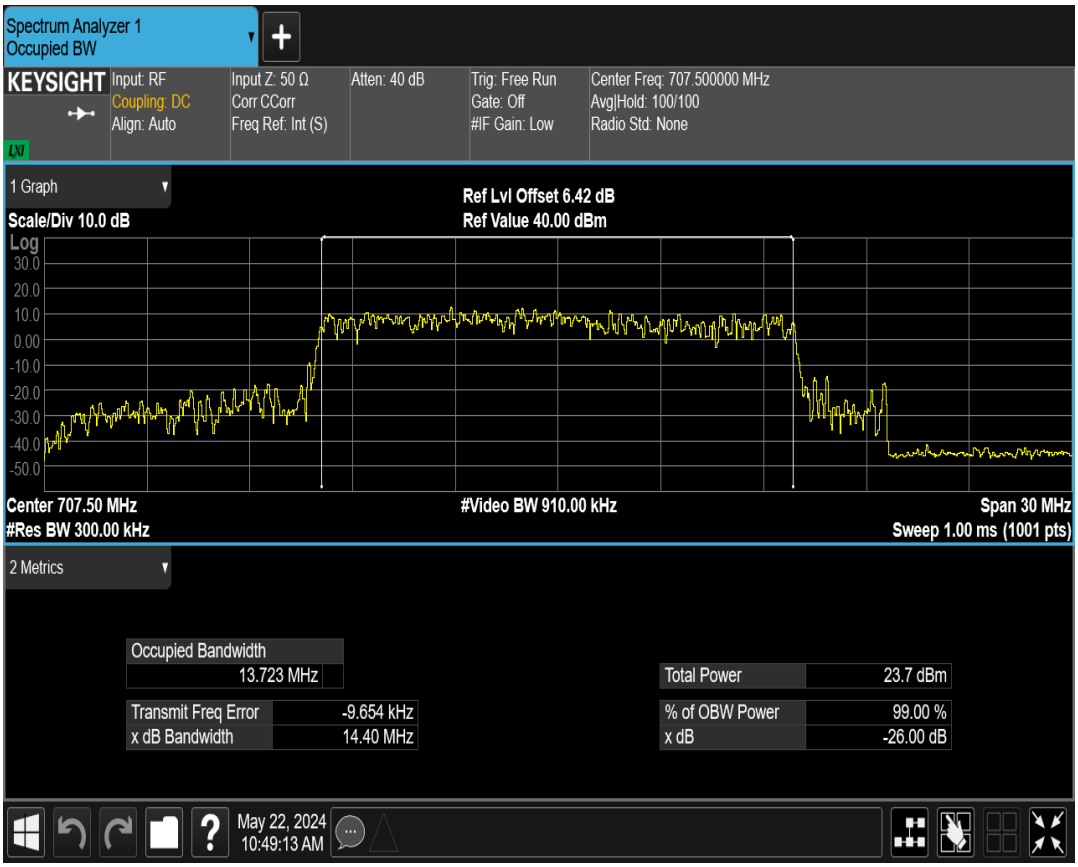
n12 SCS=30kHz DFT_QAM64 BW=15MHz Channel=141500 RB=36@0



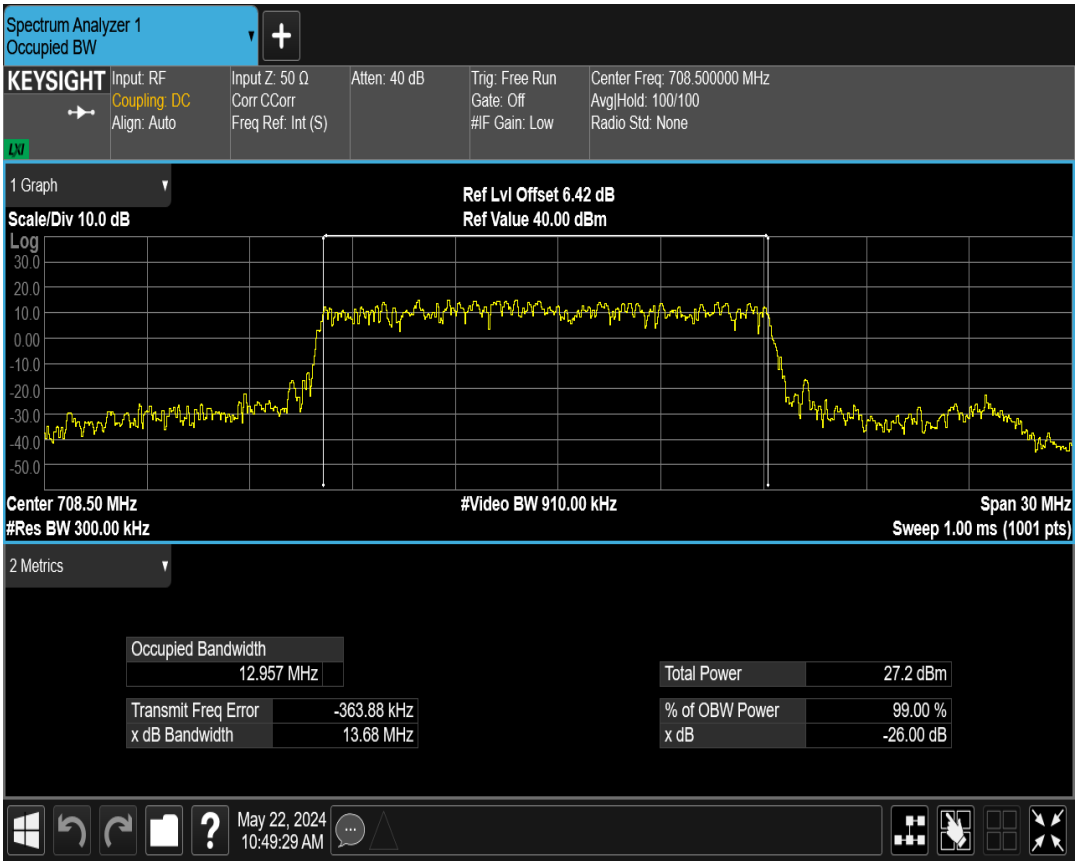
n12 SCS=30kHz DFT_QAM256 BW=15MHz Channel=141500 RB=36@0



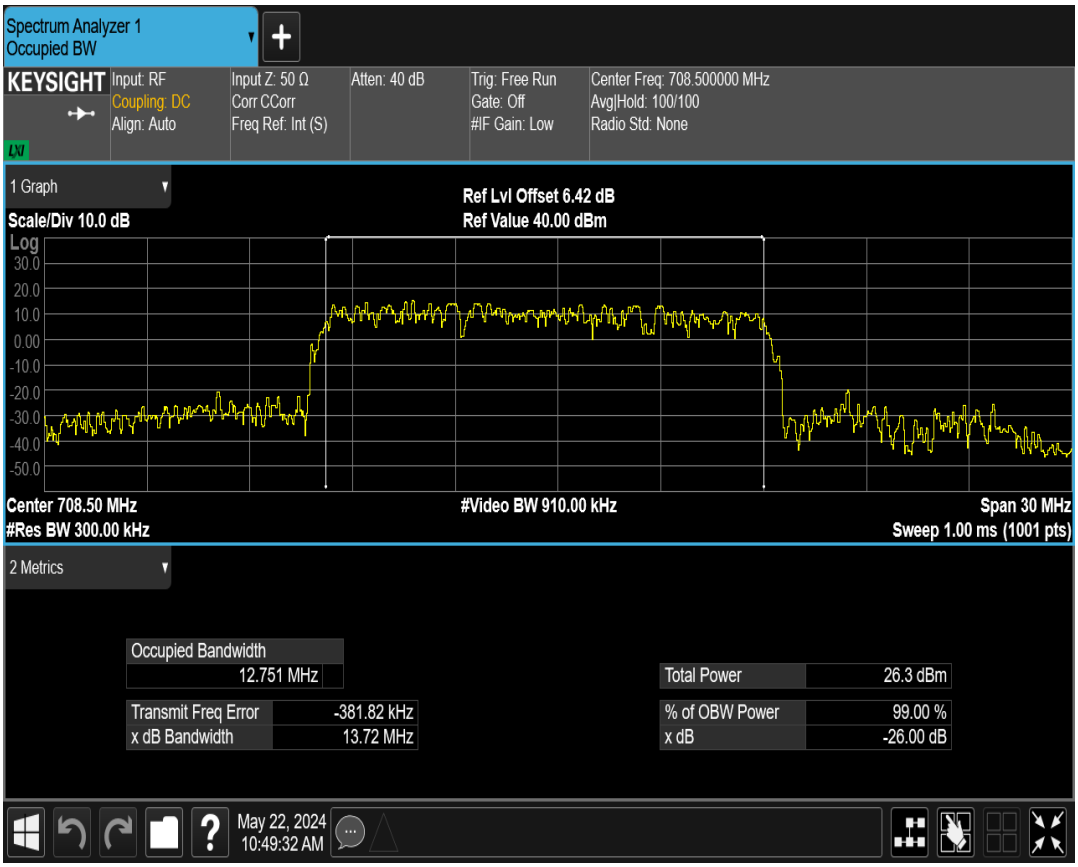
n12 SCS=30kHz CP_QPSK BW=15MHz Channel=141500 RB=38@0



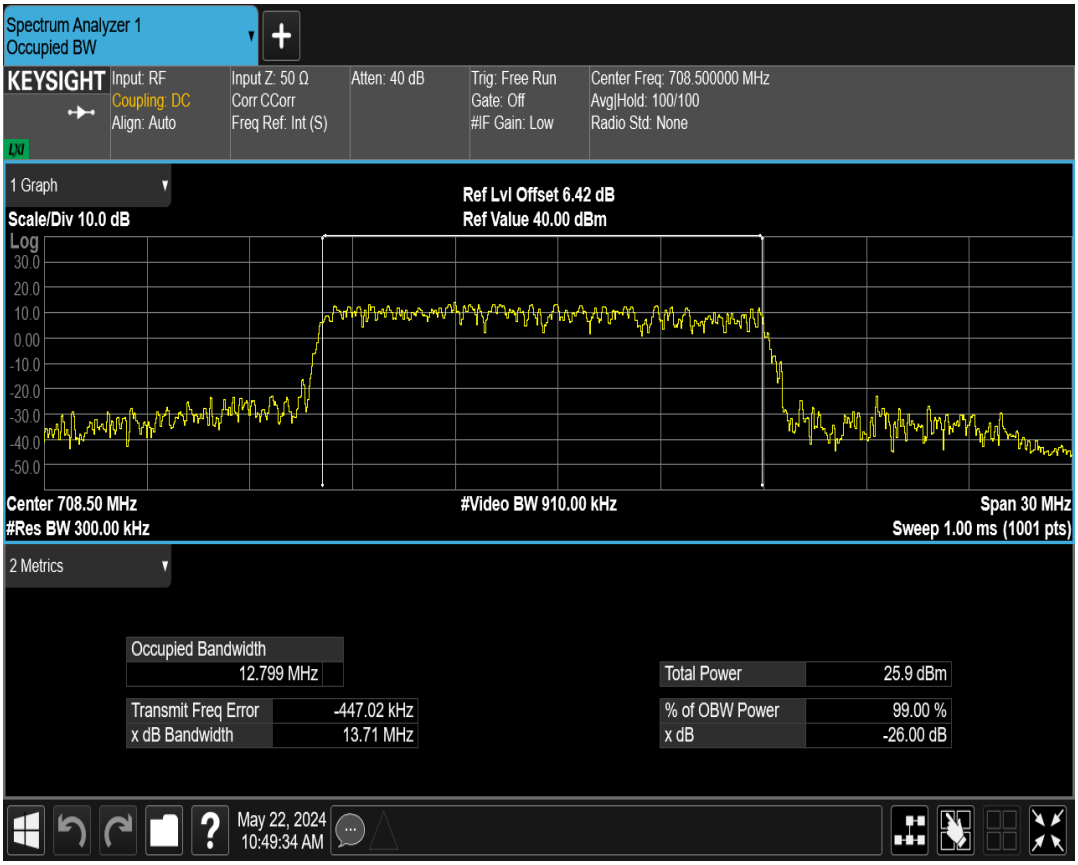
n12 SCS=30kHz DFT_BPSK BW=15MHz Channel=141700 RB=36@0



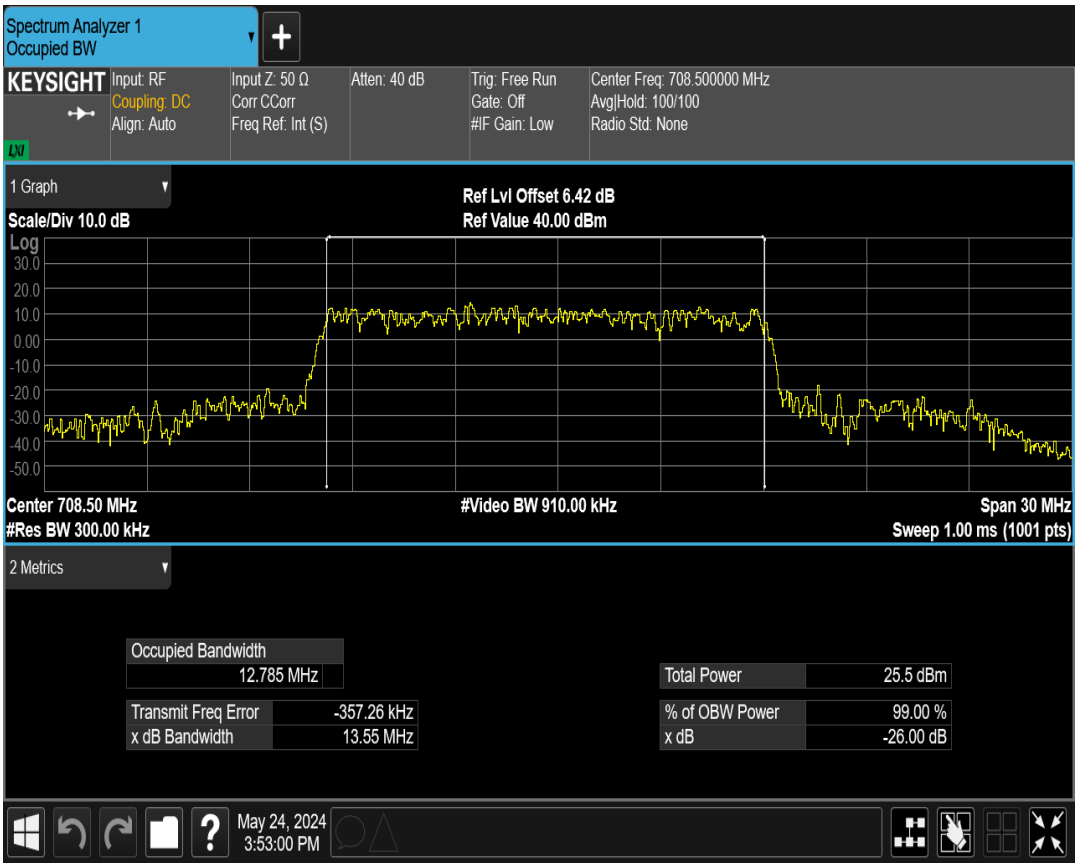
n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=36@0



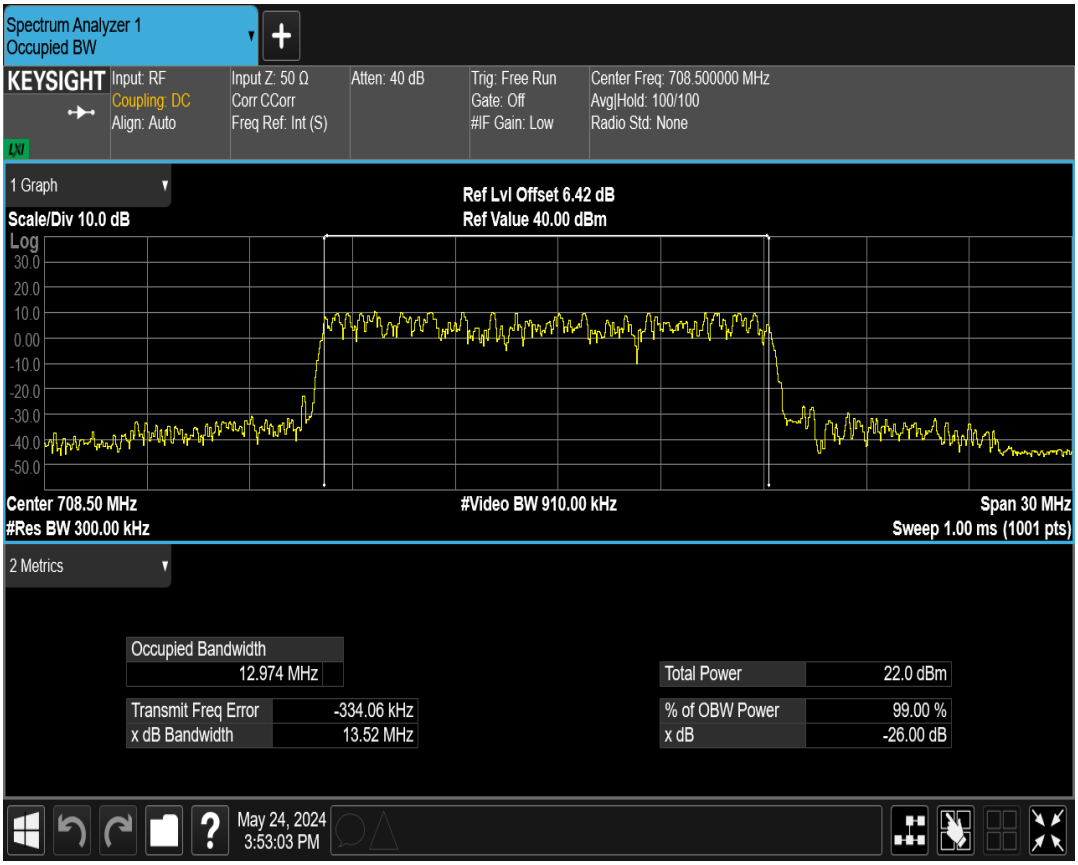
n12 SCS=30kHz DFT_QAM16 BW=15MHz Channel=141700 RB=36@0



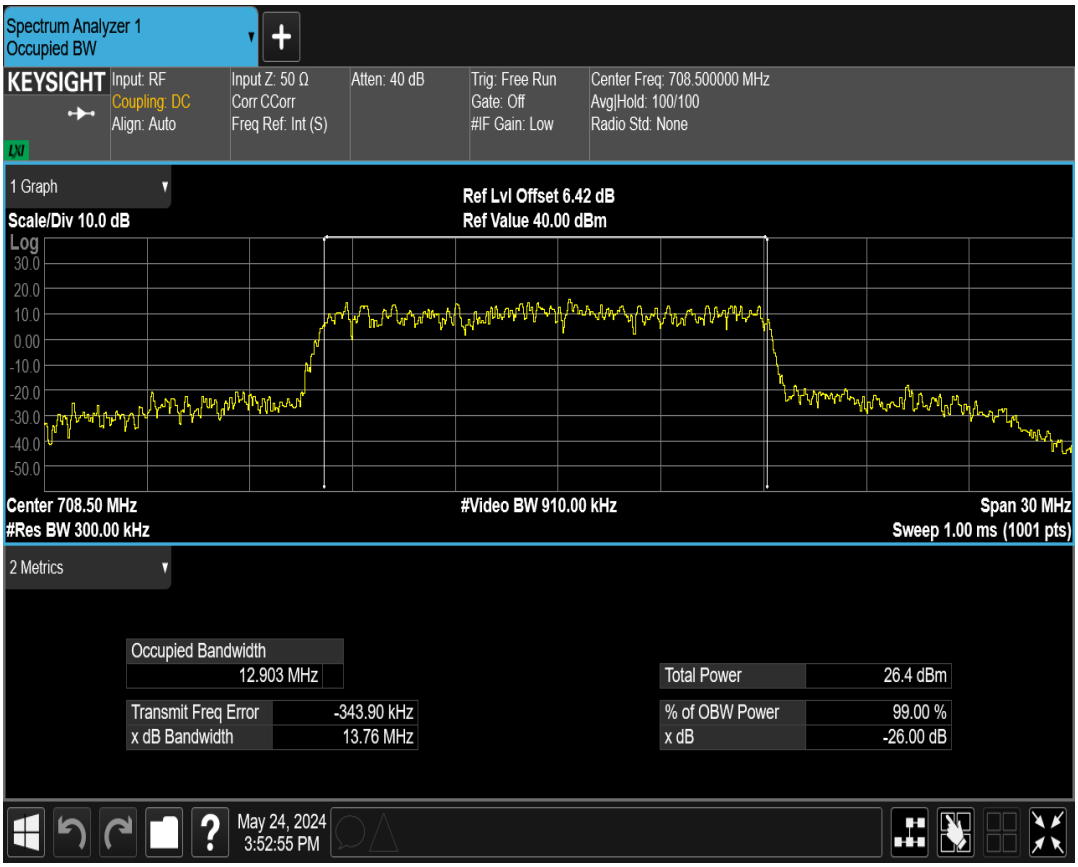
n12 SCS=30kHz DFT_QAM64 BW=15MHz Channel=141700 RB=36@0



n12 SCS=30kHz DFT_QAM256 BW=15MHz Channel=141700 RB=36@0



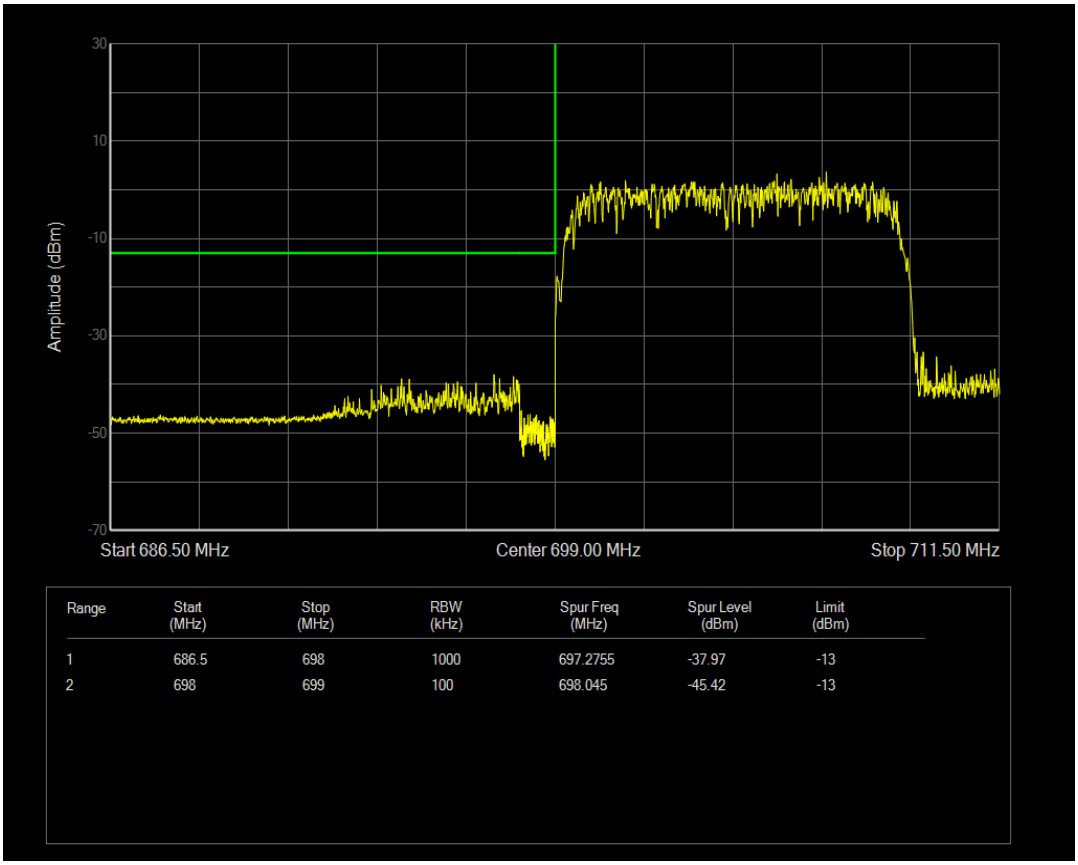
n12 SCS=30kHz CP_QPSK BW=15MHz Channel=141700 RB=38@0



5 Band edge for NR FR1

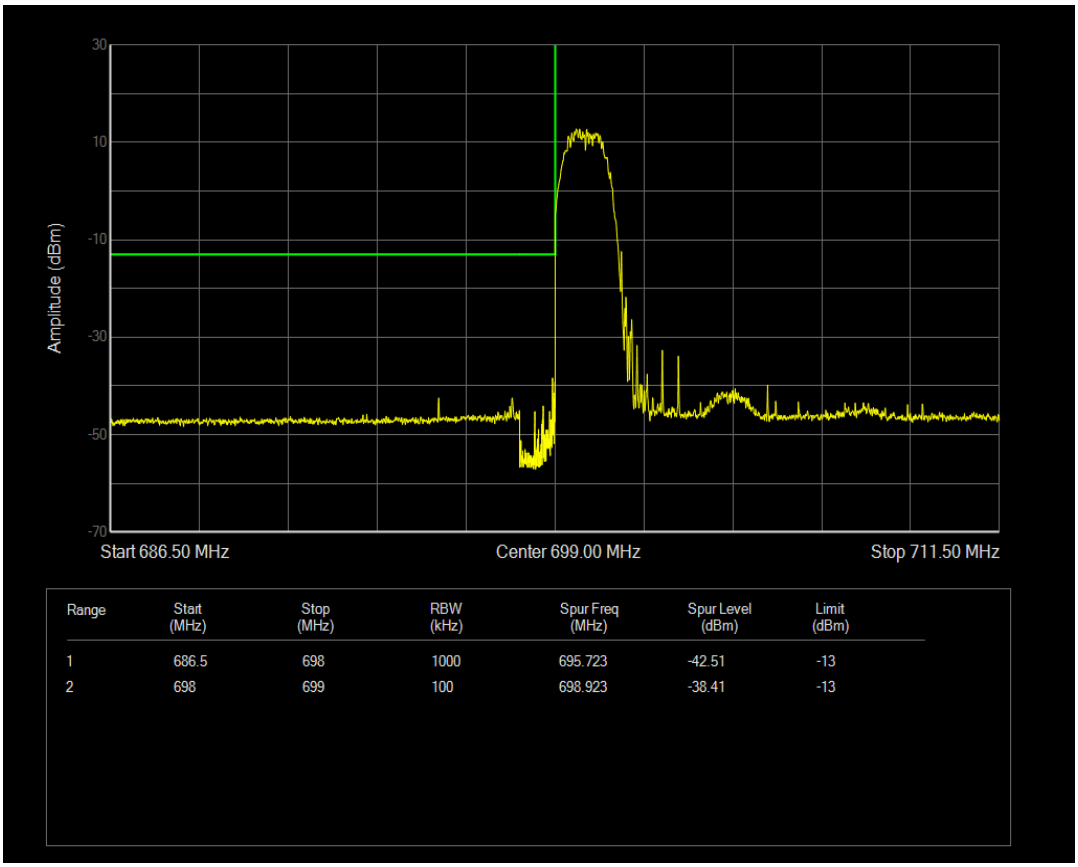
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n12	30	10	140800	24@0	DFT_QPSK	697.28	-37.97	-13	PASS
n12	30	10	140800	1@0	DFT_QPSK	698.92	-38.41	-13	PASS
n12	30	10	142200	24@0	DFT_QPSK	718.14	-33.01	-13	PASS
n12	30	10	142200	1@23	DFT_QPSK	717.16	-31.26	-13	PASS
n12	30	15	141300	36@0	DFT_QPSK	697.86	-32.31	-13	PASS
n12	30	15	141300	1@0	DFT_QPSK	698.97	-31.78	-13	PASS
n12	30	15	141700	36@0	DFT_QPSK	717.37	-31.48	-13	PASS
n12	30	15	141700	1@37	DFT_QPSK	716.05	-36.47	-13	PASS

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=24@0



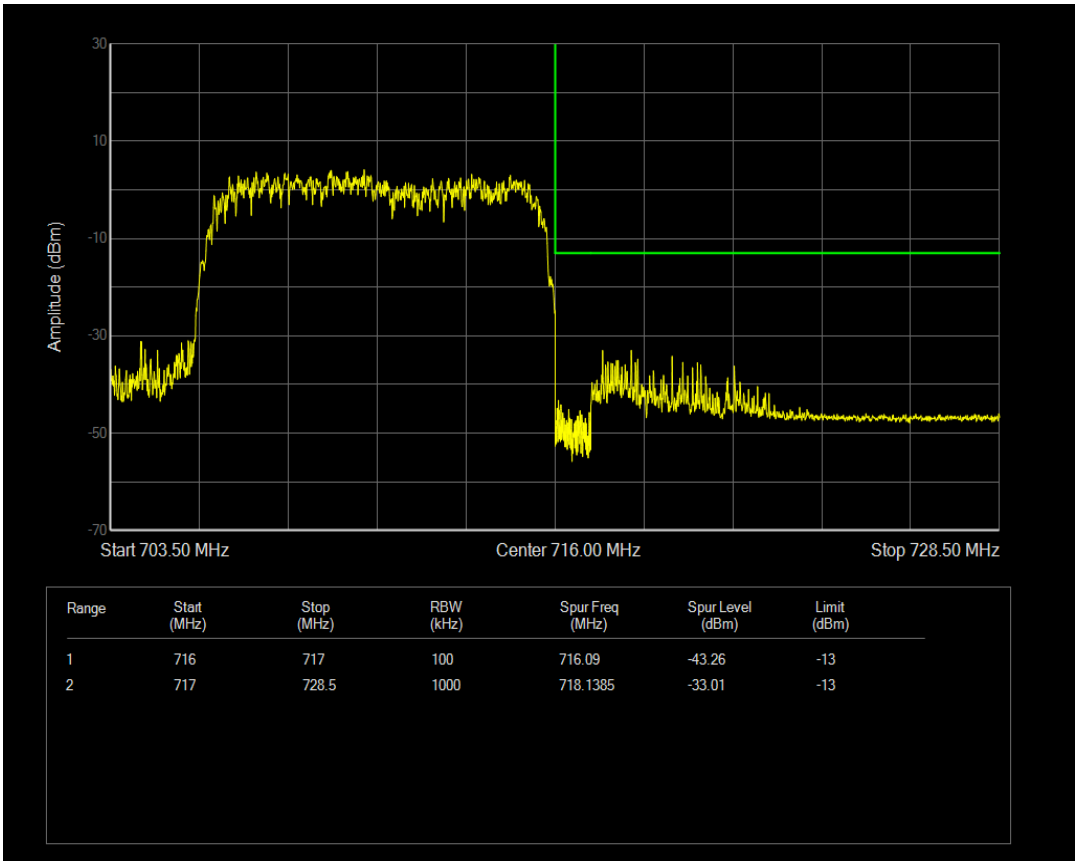
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698	1000	697.2755	-37.97	-13
2	698	699	100	698.045	-45.42	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=1@0



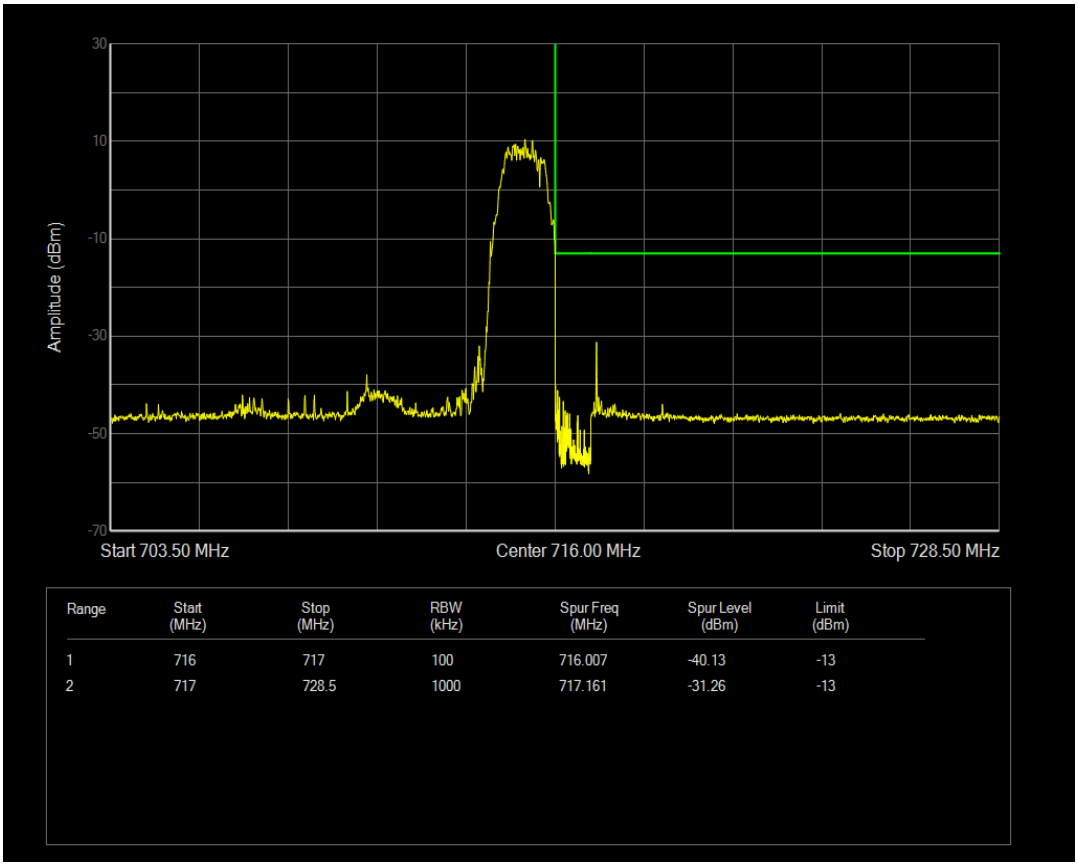
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698	1000	695.723	-42.51	-13
2	698	699	100	698.923	-38.41	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=24@0



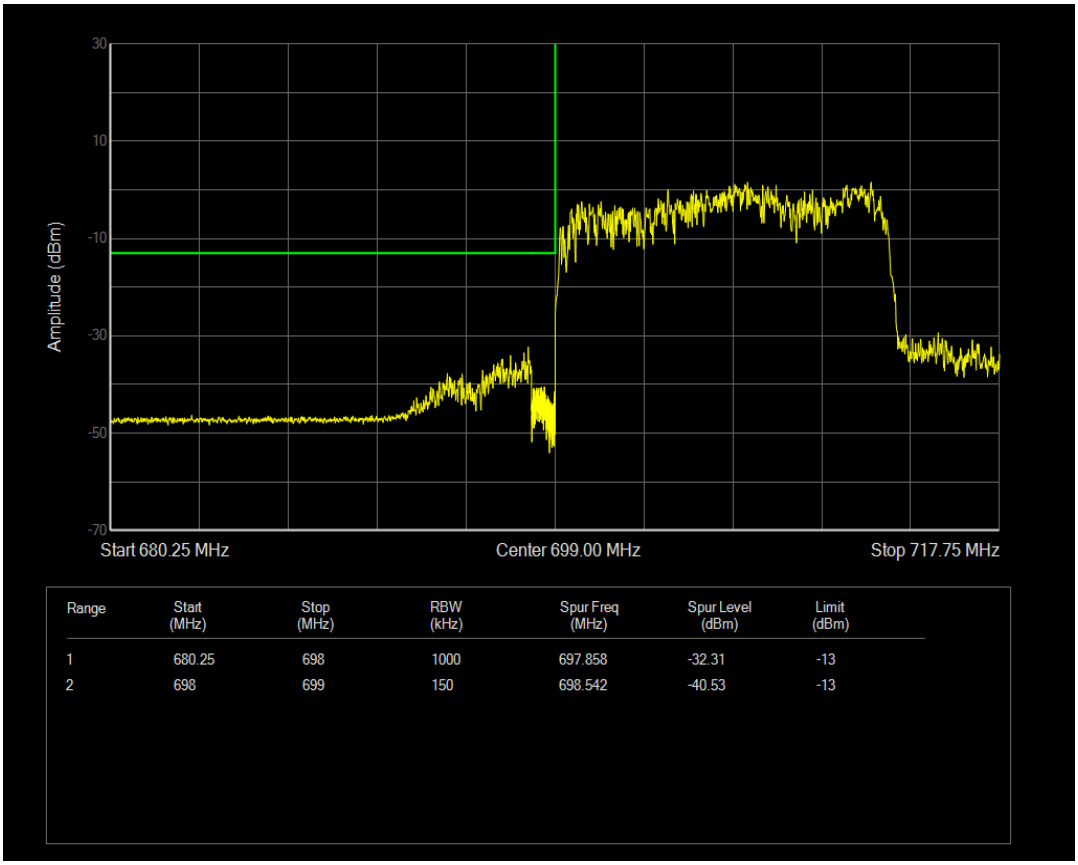
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	717	100	716.09	-43.26	-13
2	717	728.5	1000	718.1385	-33.01	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=1@23



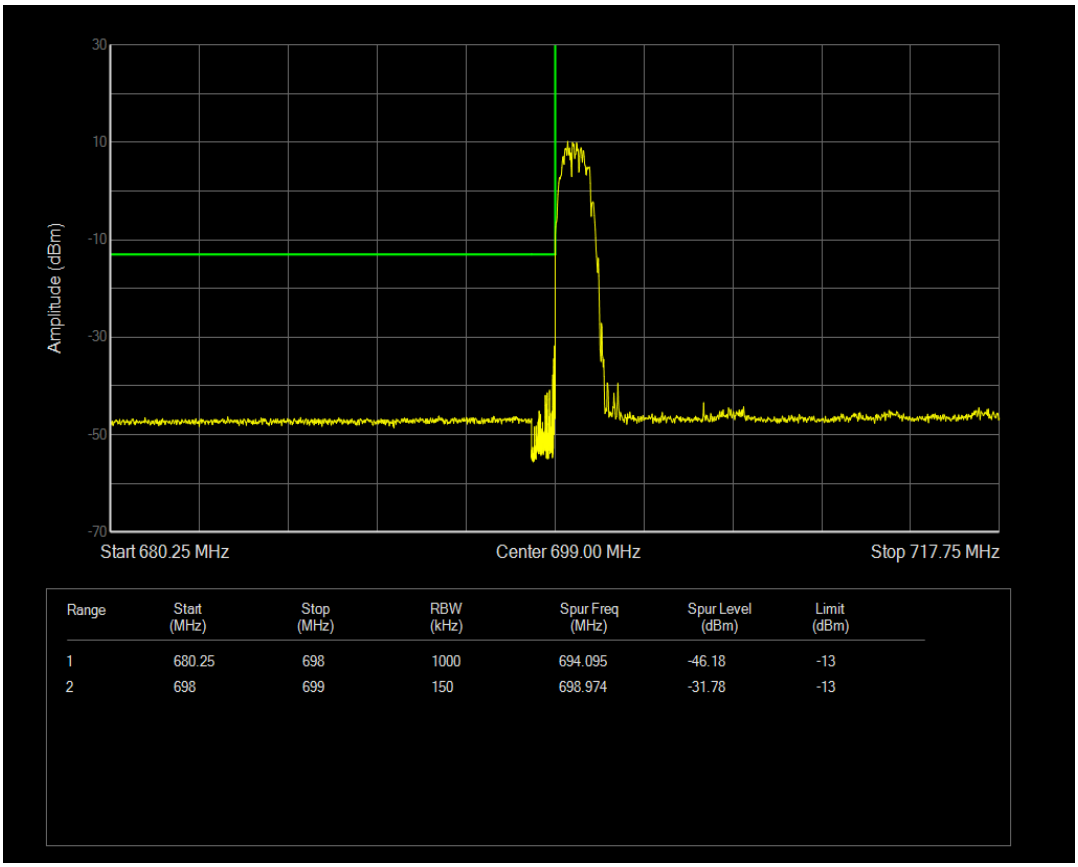
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	717	100	716.007	-40.13	-13
2	717	728.5	1000	717.161	-31.26	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=36@0



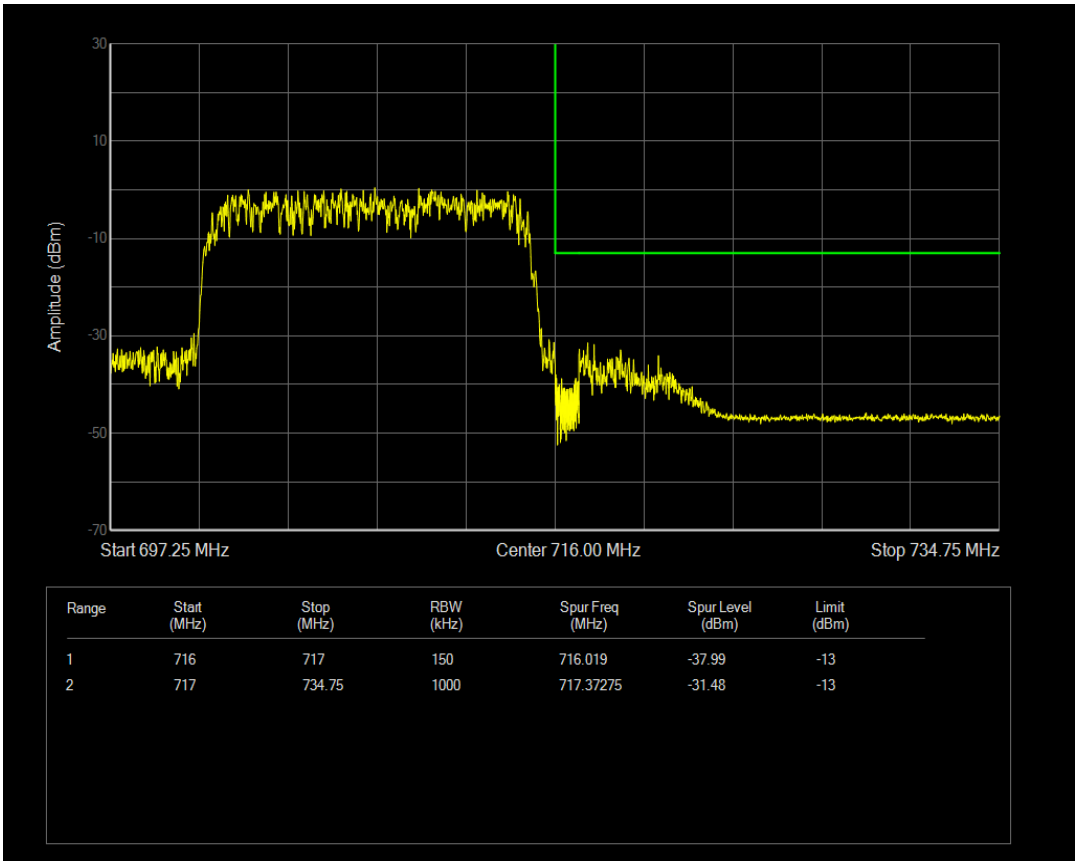
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	680.25	698	1000	697.858	-32.31	-13
2	698	699	150	698.542	-40.53	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=1@0



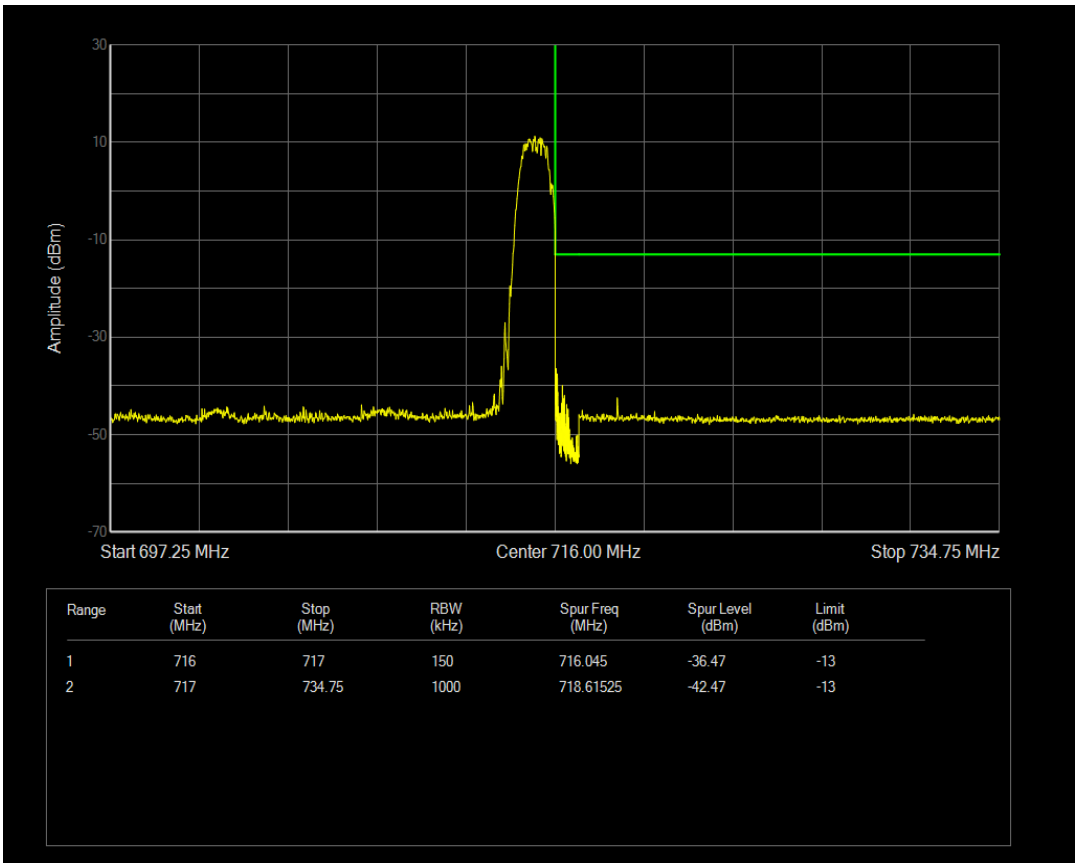
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	680.25	698	1000	694.095	-46.18	-13
2	698	699	150	698.974	-31.78	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=36@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	717	150	716.019	-37.99	-13
2	717	734.75	1000	717.37275	-31.48	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=1@37

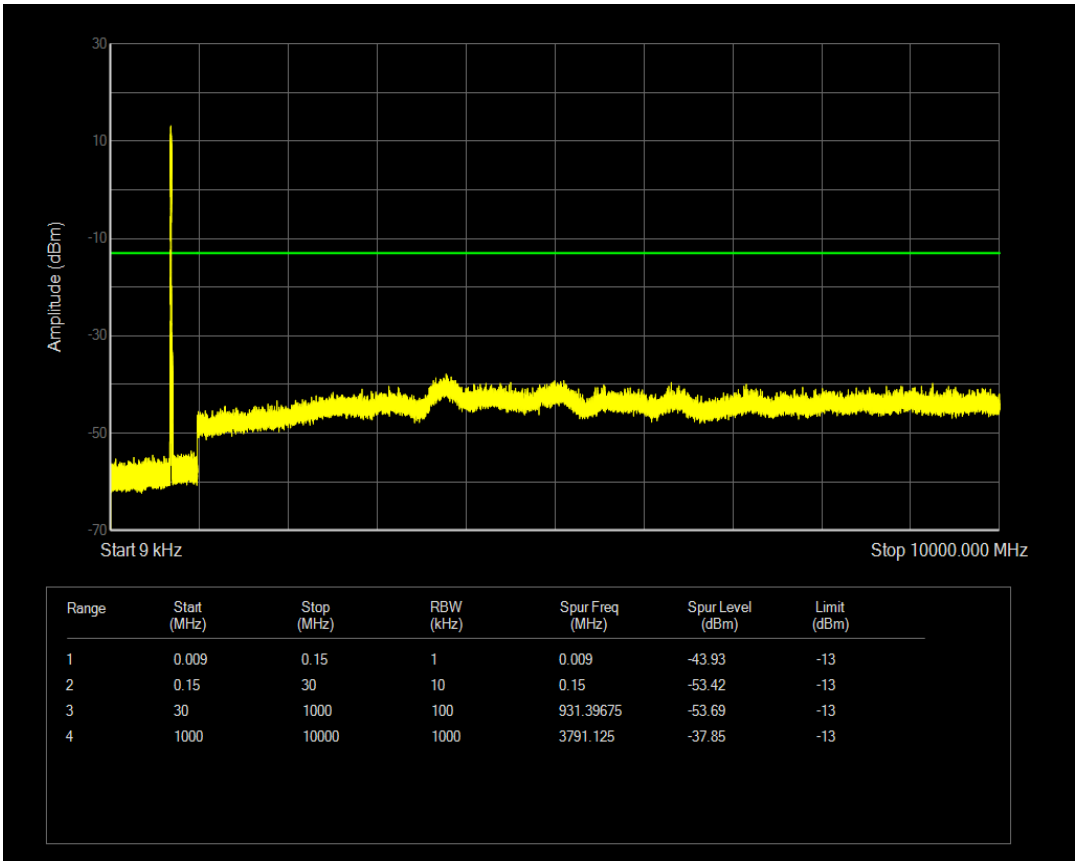


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	717	150	716.045	-36.47	-13
2	717	734.75	1000	718.61525	-42.47	-13

6 Out-of-band emissions for NR FR1

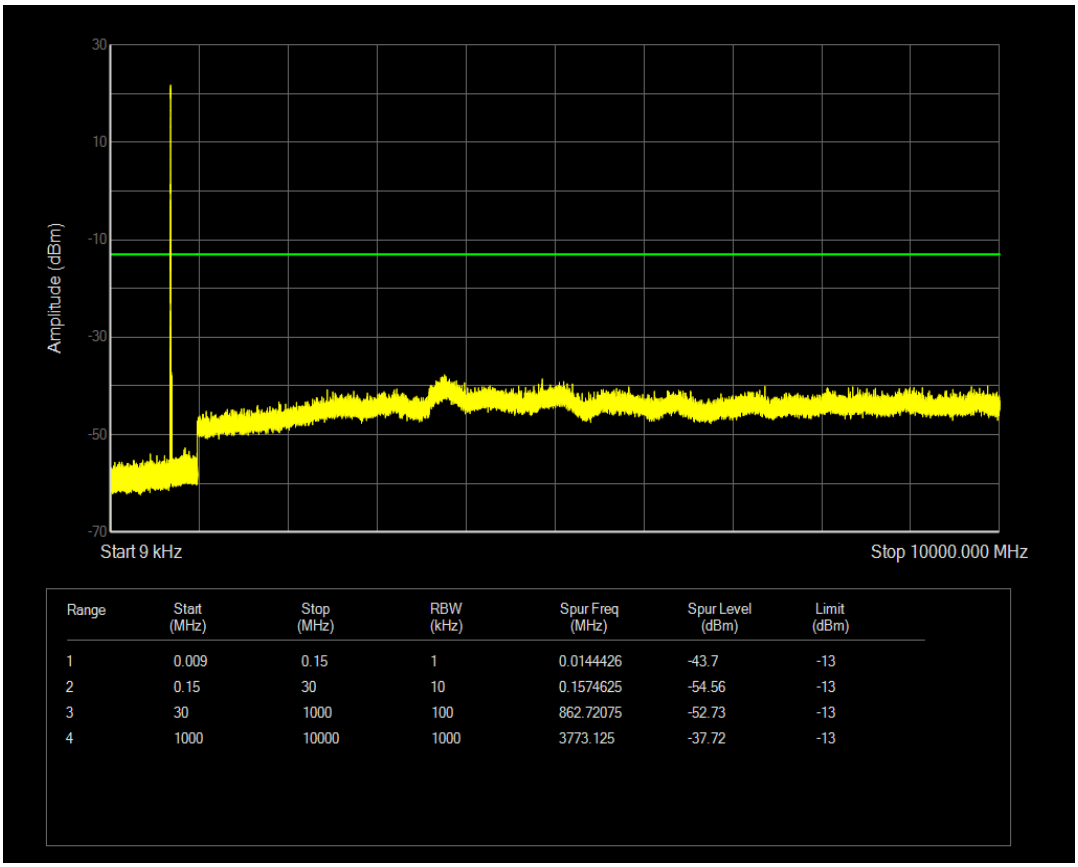
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n12	30	10	140800	24@0	DFT_QPSK	3791.13	-37.85	-13	PASS
n12	30	10	140800	1@0	DFT_QPSK	3773.13	-37.72	-13	PASS
n12	30	10	140800	1@23	DFT_QPSK	3821.95	-37.07	-13	PASS
n12	30	10	141500	24@0	DFT_QPSK	3688.30	-38.29	-13	PASS
n12	30	10	141500	1@0	DFT_QPSK	3748.83	-37.59	-13	PASS
n12	30	10	141500	1@23	DFT_QPSK	3841.75	-37.83	-13	PASS
n12	30	10	142200	24@0	DFT_QPSK	3890.58	-37.90	-13	PASS
n12	30	10	142200	1@0	DFT_QPSK	3758.50	-37.78	-13	PASS
n12	30	10	142200	1@23	DFT_QPSK	3745.90	-37.50	-13	PASS
n12	30	15	141300	36@0	DFT_QPSK	3821.50	-37.89	-13	PASS
n12	30	15	141300	1@0	DFT_QPSK	3770.88	-36.89	-13	PASS
n12	30	15	141300	1@37	DFT_QPSK	3633.63	-37.54	-13	PASS
n12	30	15	141500	36@0	DFT_QPSK	5004.33	-38.05	-13	PASS
n12	30	15	141500	1@0	DFT_QPSK	3831.63	-37.49	-13	PASS
n12	30	15	141500	1@37	DFT_QPSK	3796.08	-38.09	-13	PASS
n12	30	15	141700	36@0	DFT_QPSK	3882.25	-37.99	-13	PASS
n12	30	15	141700	1@0	DFT_QPSK	3775.83	-37.77	-13	PASS
n12	30	15	141700	1@37	DFT_QPSK	3829.83	-37.89	-13	PASS

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=24@0



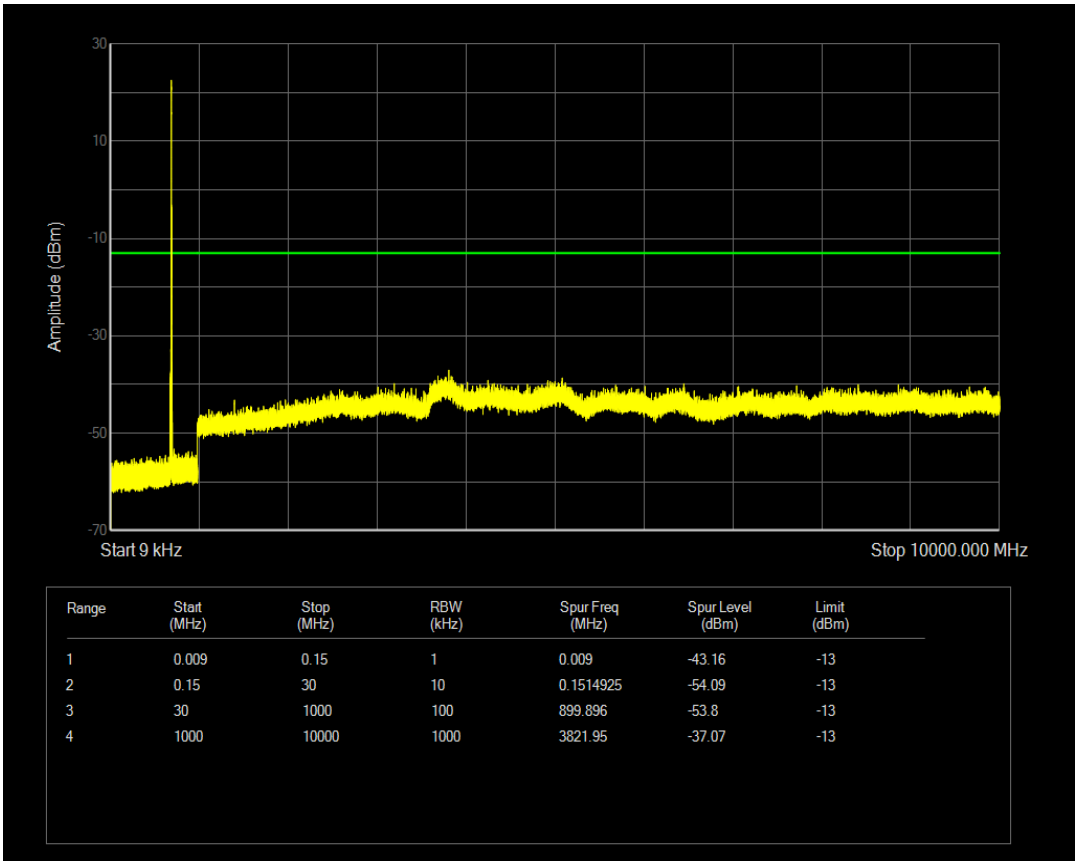
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-43.93	-13
2	0.15	30	10	0.15	-53.42	-13
3	30	1000	100	931.39675	-53.69	-13
4	1000	10000	1000	3791.125	-37.85	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=1@0



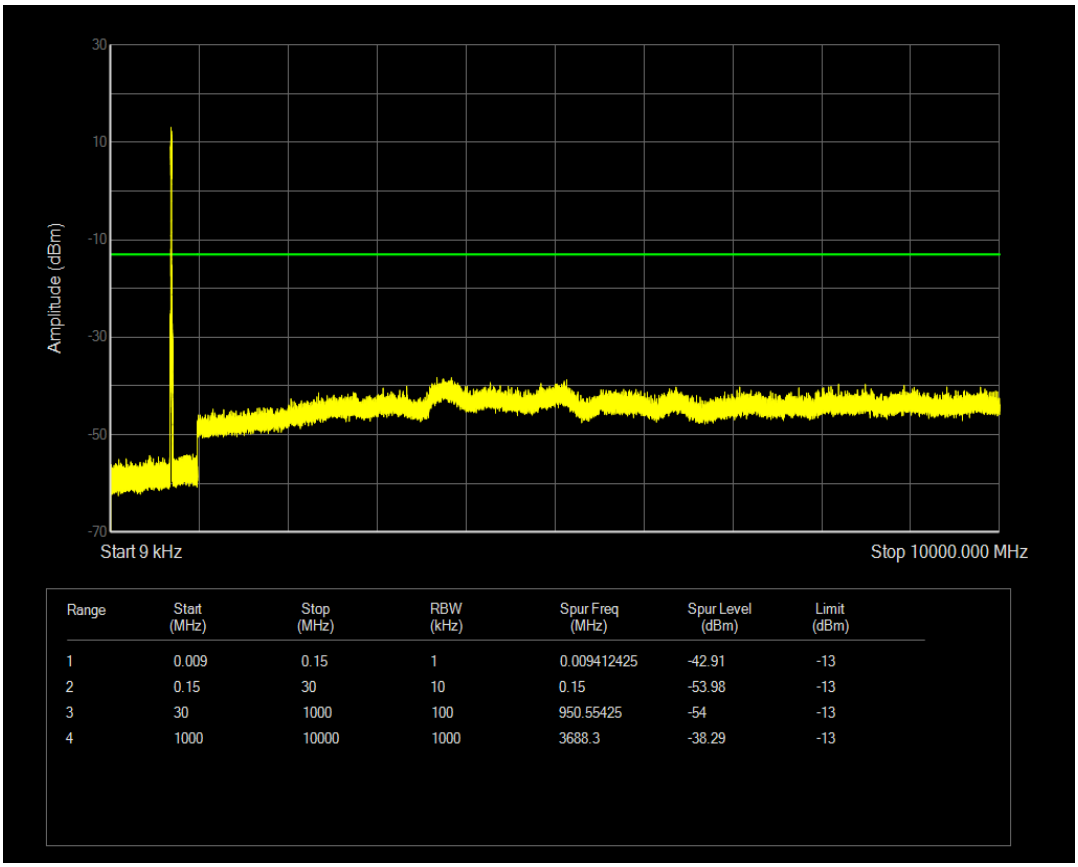
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0144426	-43.7	-13
2	0.15	30	10	0.1574625	-54.56	-13
3	30	1000	100	862.72075	-52.73	-13
4	1000	10000	1000	3773.125	-37.72	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=140800 RB=1@23



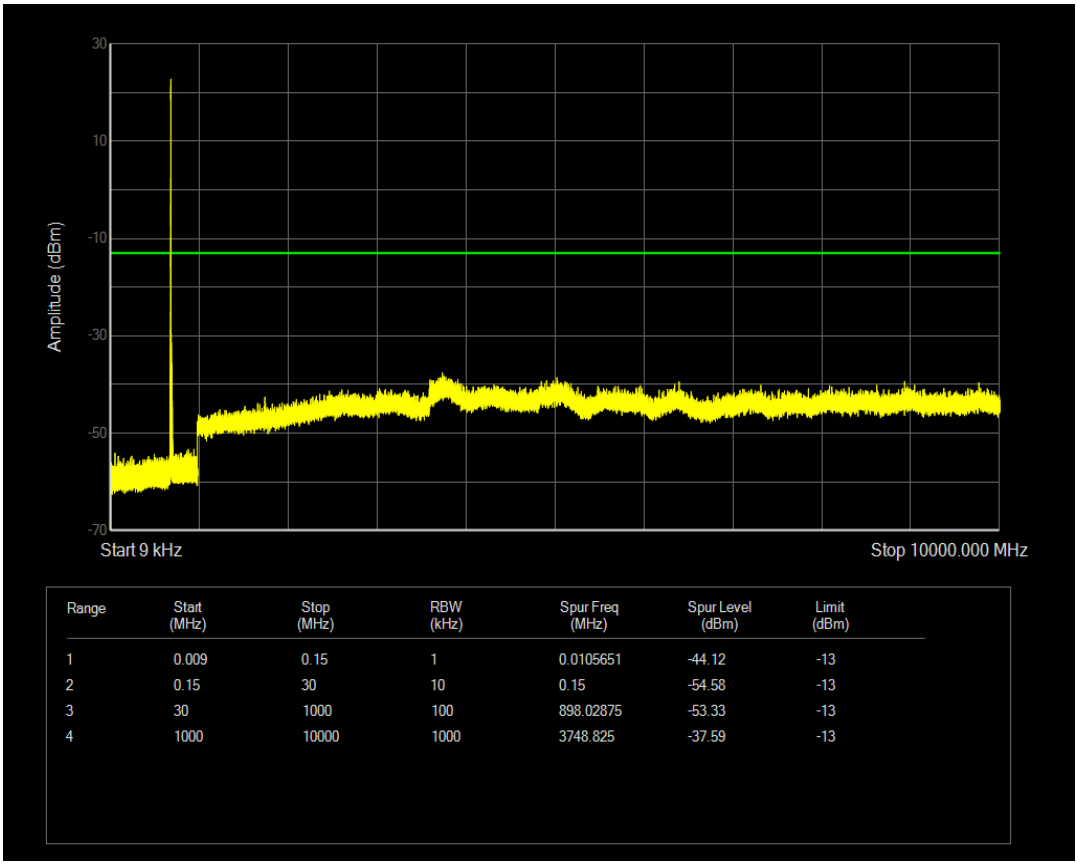
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-43.16	-13
2	0.15	30	10	0.1514925	-54.09	-13
3	30	1000	100	899.896	-53.8	-13
4	1000	10000	1000	3821.95	-37.07	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=141500 RB=24@0



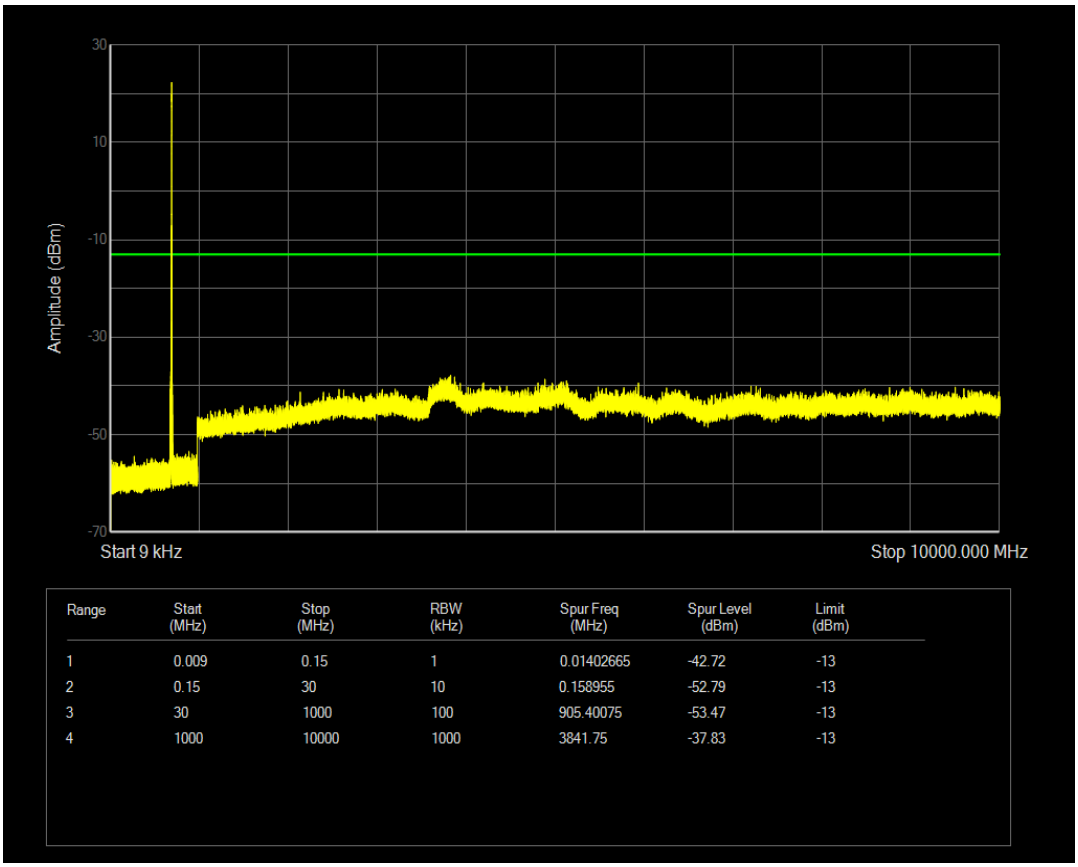
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009412425	-42.91	-13
2	0.15	30	10	0.15	-53.98	-13
3	30	1000	100	950.55425	-54	-13
4	1000	10000	1000	3688.3	-38.29	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=141500 RB=1@0



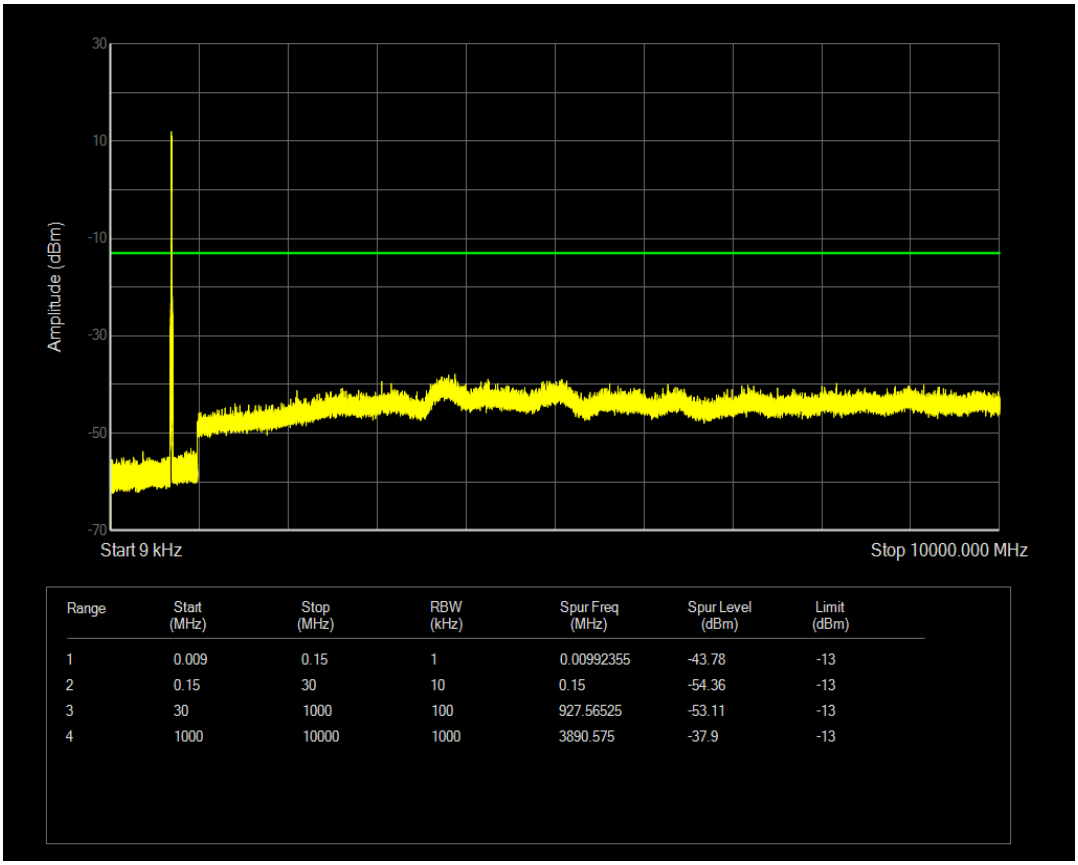
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0105651	-44.12	-13
2	0.15	30	10	0.15	-54.58	-13
3	30	1000	100	898.02875	-53.33	-13
4	1000	10000	1000	3748.825	-37.59	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=141500 RB=1@23



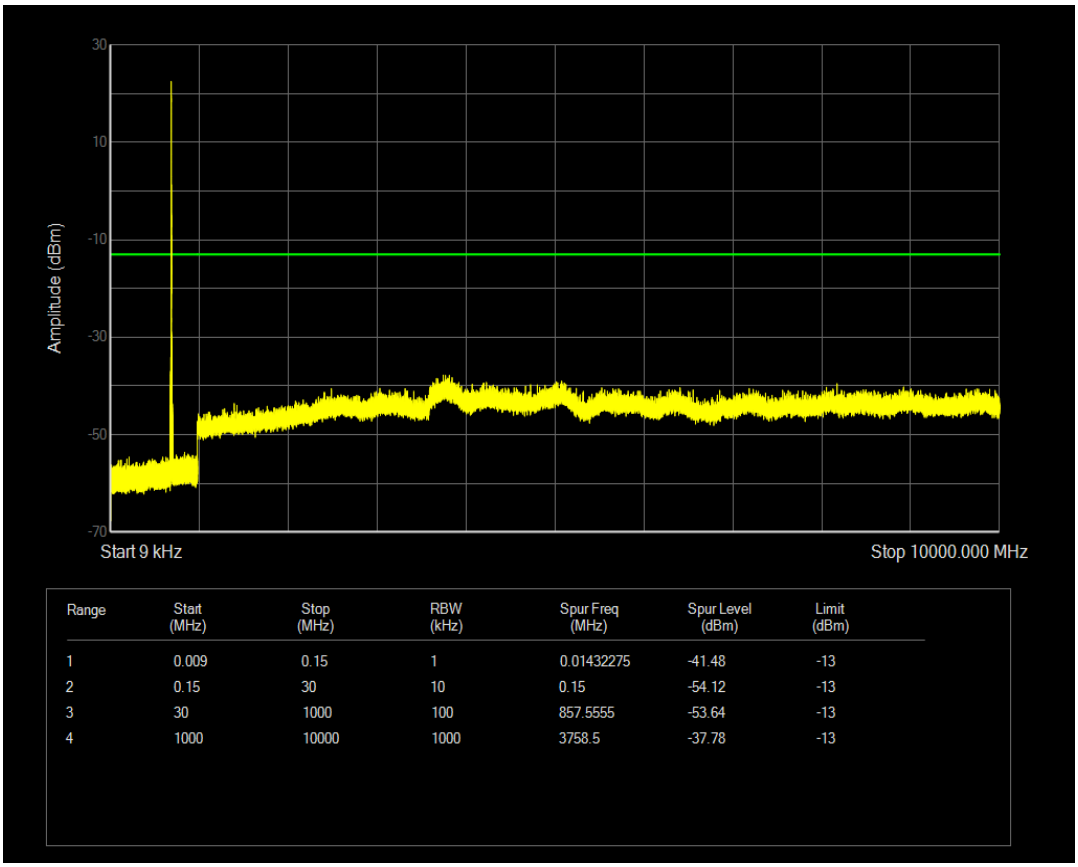
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01402665	-42.72	-13
2	0.15	30	10	0.158955	-52.79	-13
3	30	1000	100	905.40075	-53.47	-13
4	1000	10000	1000	3841.75	-37.83	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=24@0



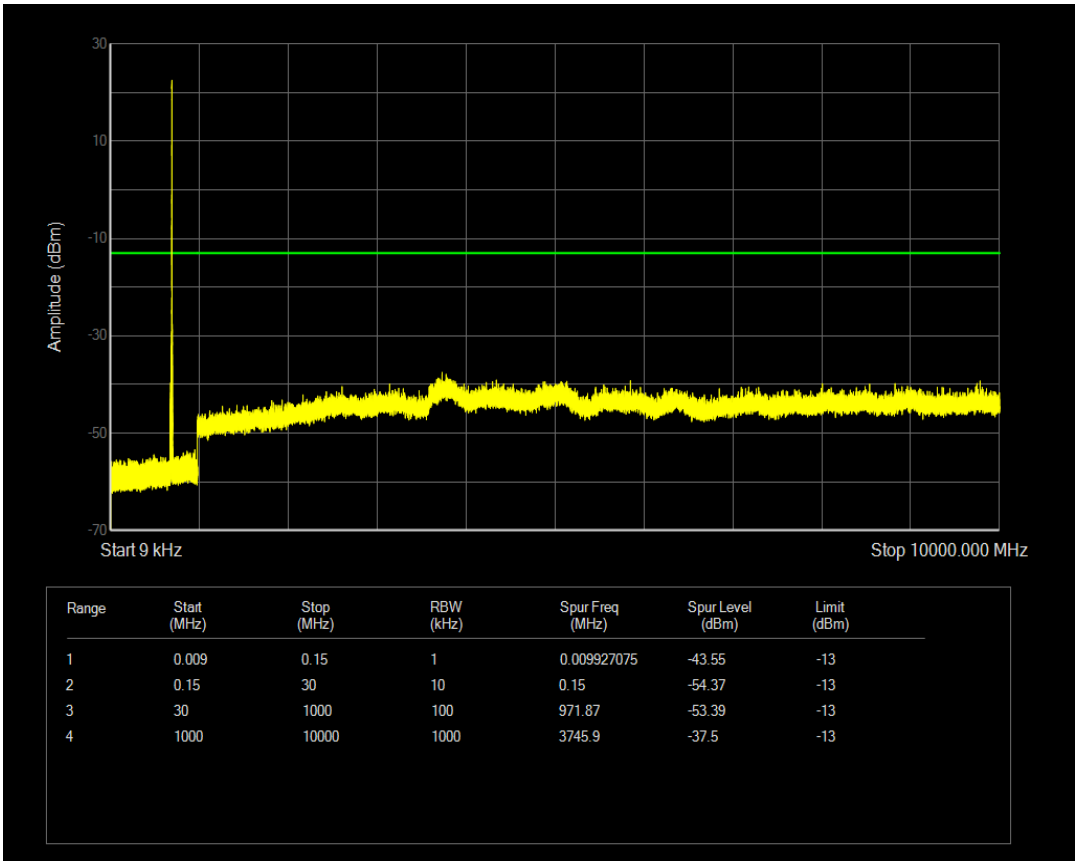
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00992355	-43.78	-13
2	0.15	30	10	0.15	-54.36	-13
3	30	1000	100	927.56525	-53.11	-13
4	1000	10000	1000	3890.575	-37.9	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=1@0



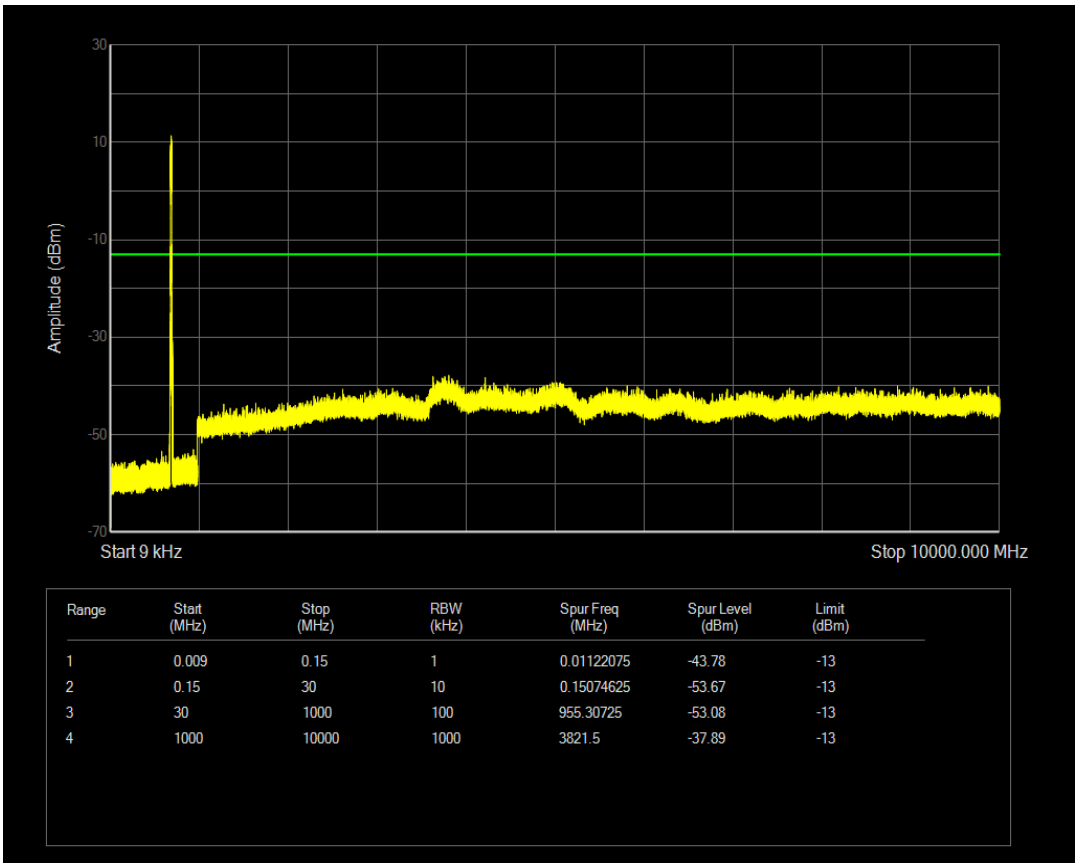
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01432275	-41.48	-13
2	0.15	30	10	0.15	-54.12	-13
3	30	1000	100	857.5555	-53.64	-13
4	1000	10000	1000	3758.5	-37.78	-13

n12 SCS=30kHz DFT_QPSK BW=10MHz Channel=142200 RB=1@23



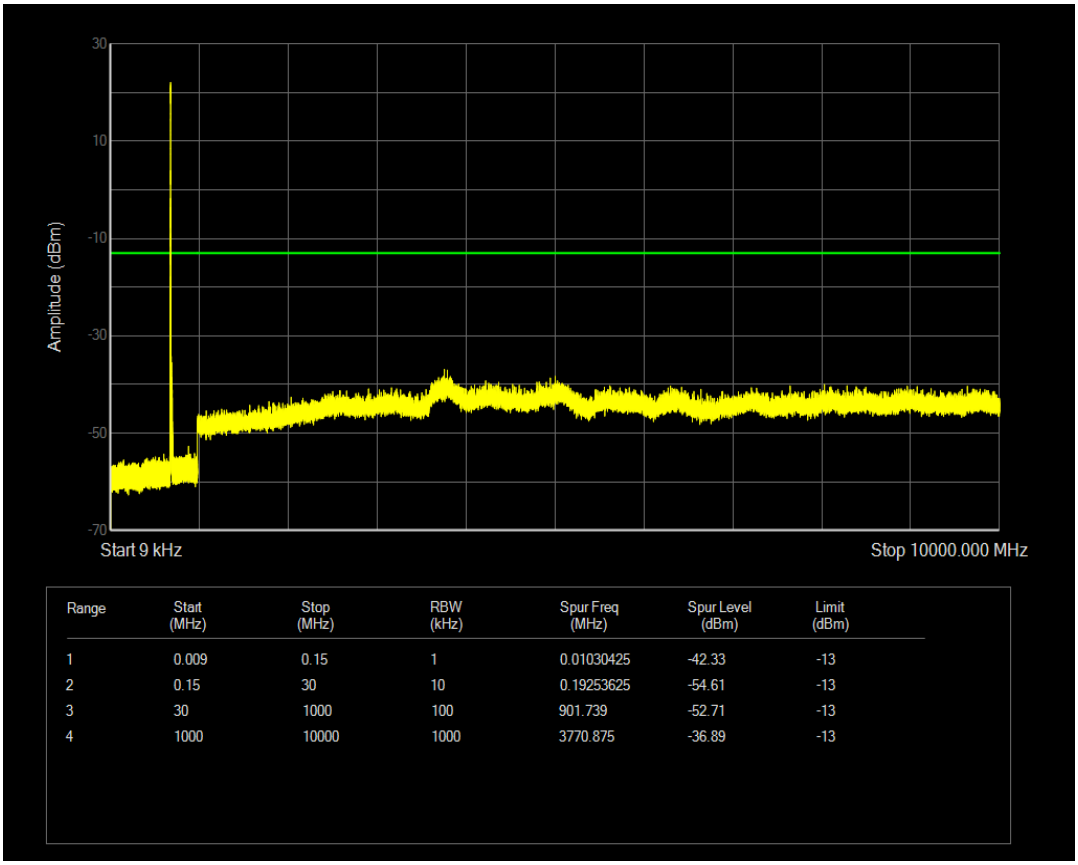
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009927075	-43.55	-13
2	0.15	30	10	0.15	-54.37	-13
3	30	1000	100	971.87	-53.39	-13
4	1000	10000	1000	3745.9	-37.5	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=36@0



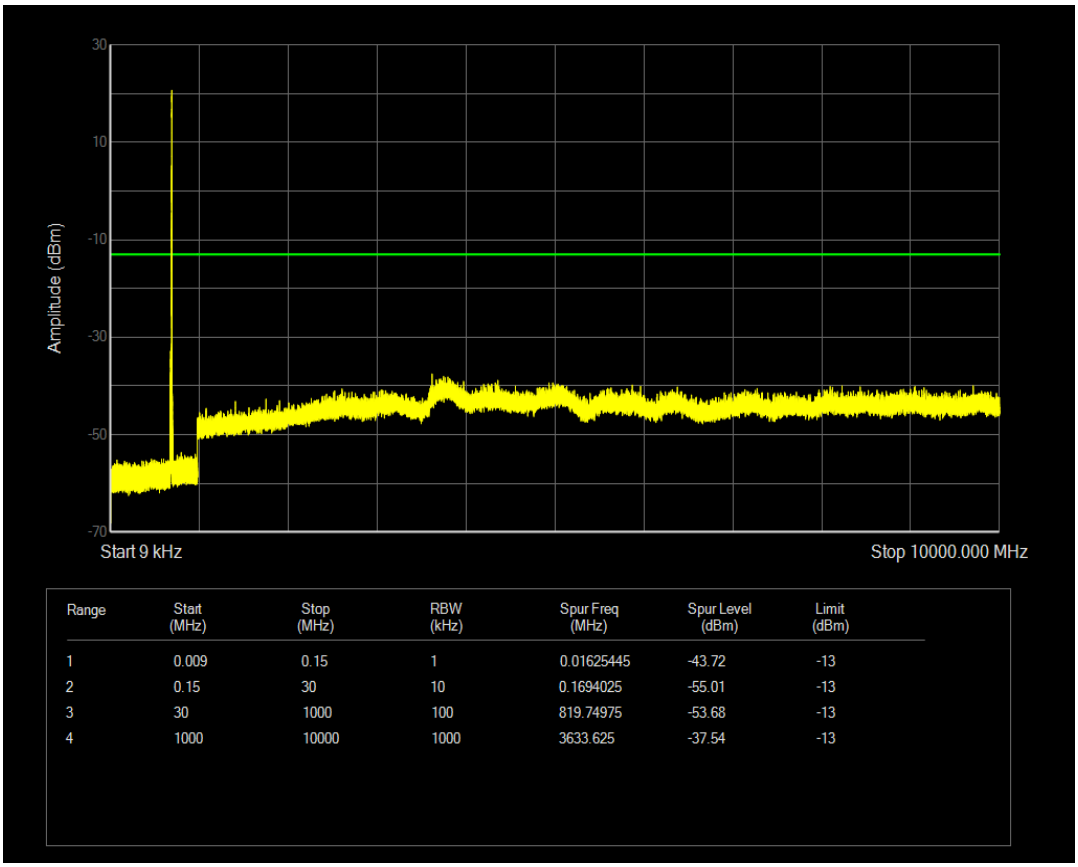
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01122075	-43.78	-13
2	0.15	30	10	0.15074625	-53.67	-13
3	30	1000	100	955.30725	-53.08	-13
4	1000	10000	1000	3821.5	-37.89	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=1@0



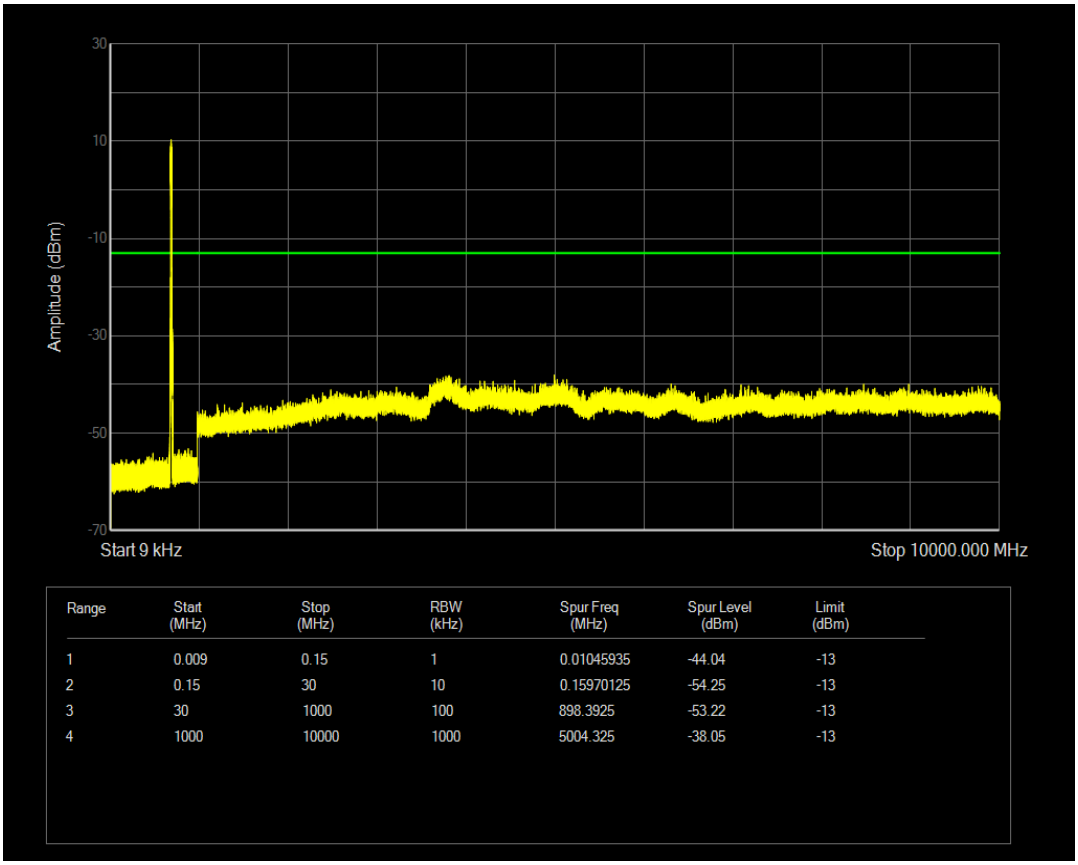
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01030425	-42.33	-13
2	0.15	30	10	0.19253625	-54.61	-13
3	30	1000	100	901.739	-52.71	-13
4	1000	10000	1000	3770.875	-36.89	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141300 RB=1@37



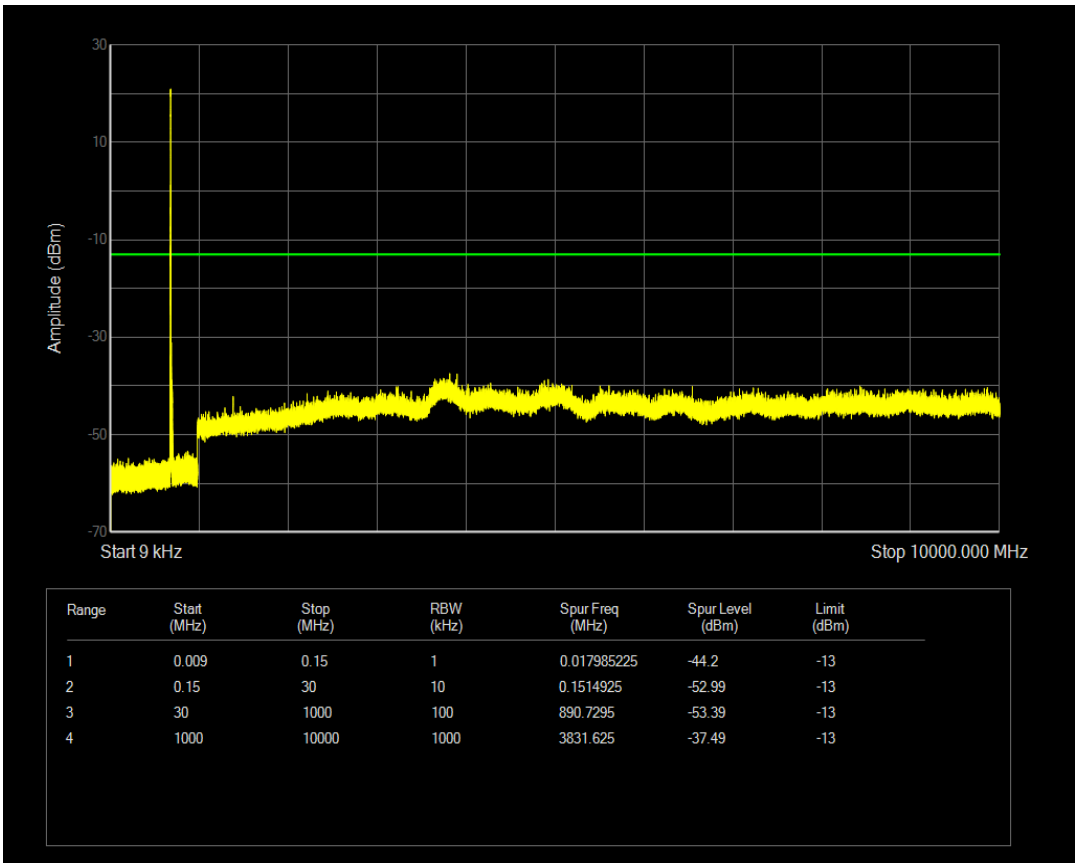
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01625445	-43.72	-13
2	0.15	30	10	0.1694025	-55.01	-13
3	30	1000	100	819.74975	-53.68	-13
4	1000	10000	1000	3633.625	-37.54	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141500 RB=36@0



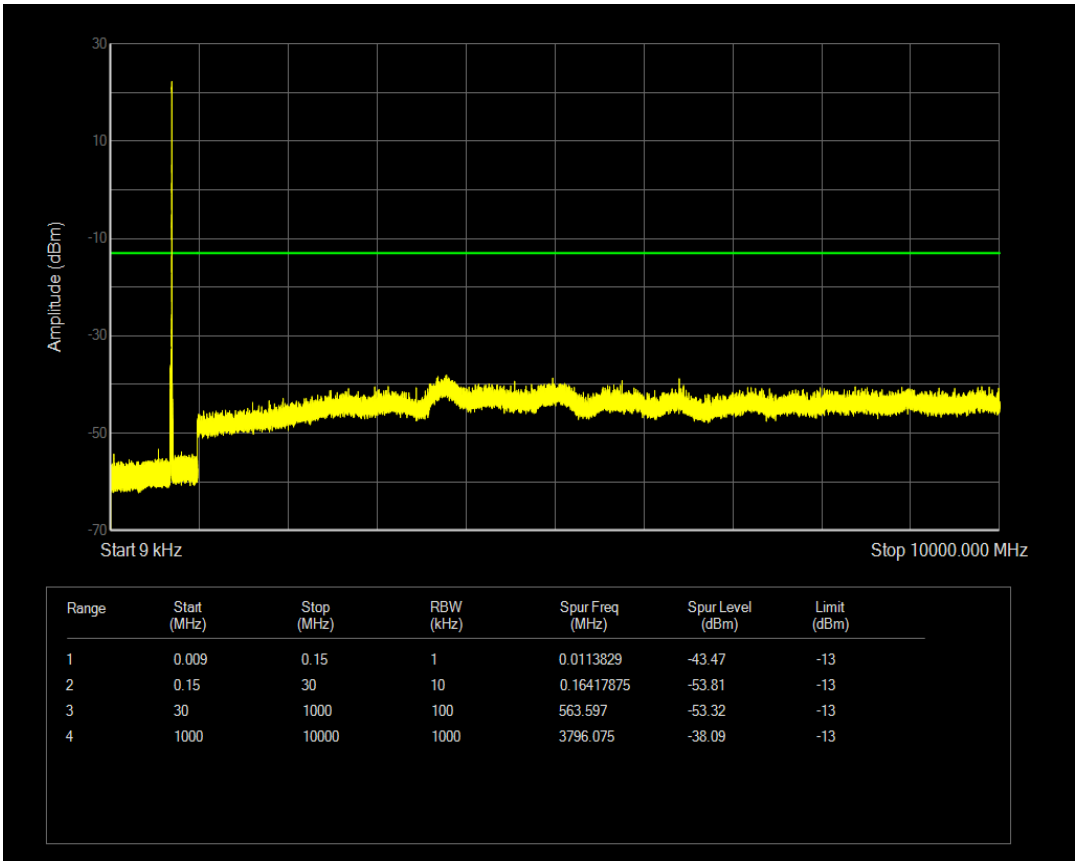
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01045935	-44.04	-13
2	0.15	30	10	0.15970125	-54.25	-13
3	30	1000	100	898.3925	-53.22	-13
4	1000	10000	1000	5004.325	-38.05	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141500 RB=1@0



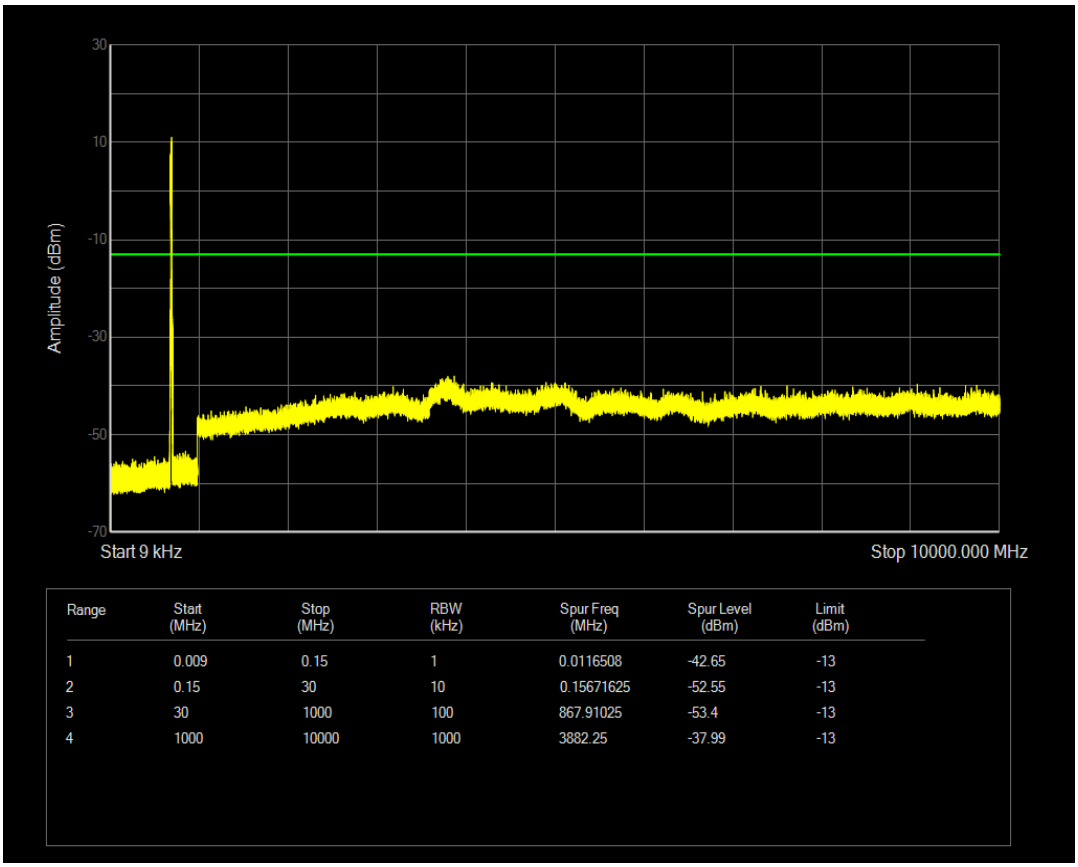
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.017985225	-44.2	-13
2	0.15	30	10	0.1514925	-52.99	-13
3	30	1000	100	890.7295	-53.39	-13
4	1000	10000	1000	3831.625	-37.49	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141500 RB=1@37



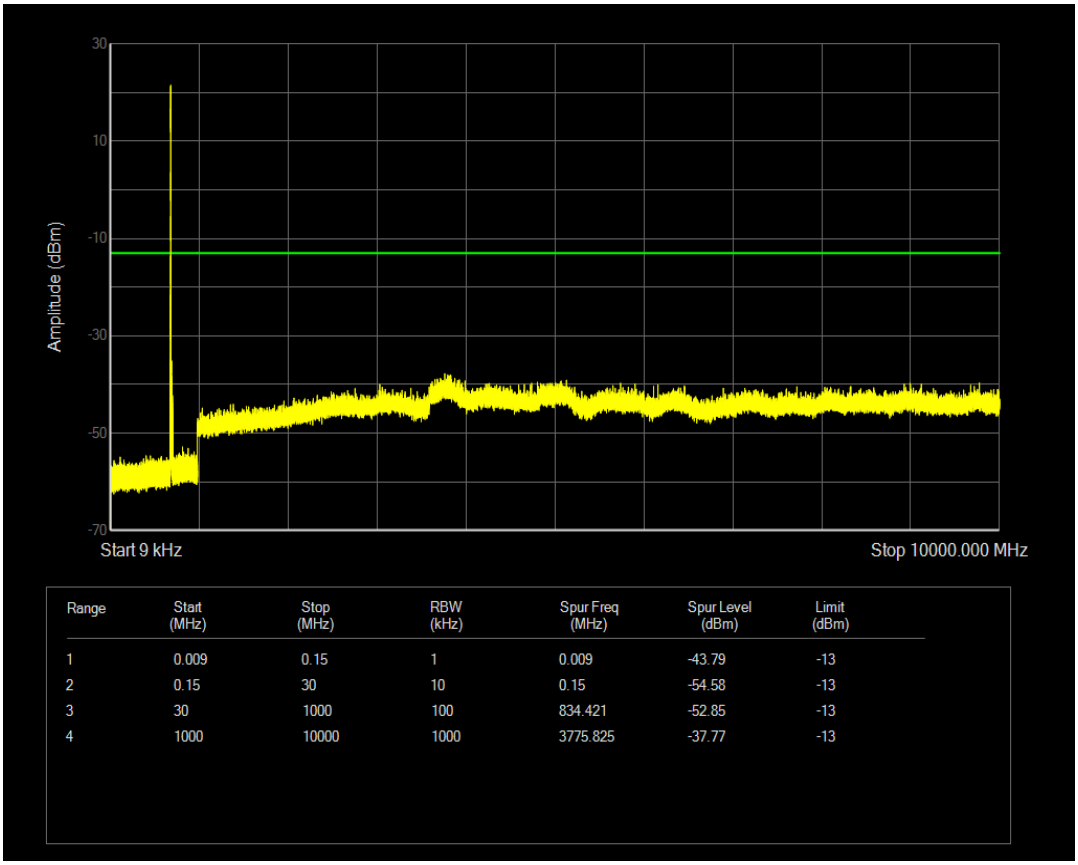
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0113829	-43.47	-13
2	0.15	30	10	0.16417875	-53.81	-13
3	30	1000	100	563.597	-53.32	-13
4	1000	10000	1000	3796.075	-38.09	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=36@0



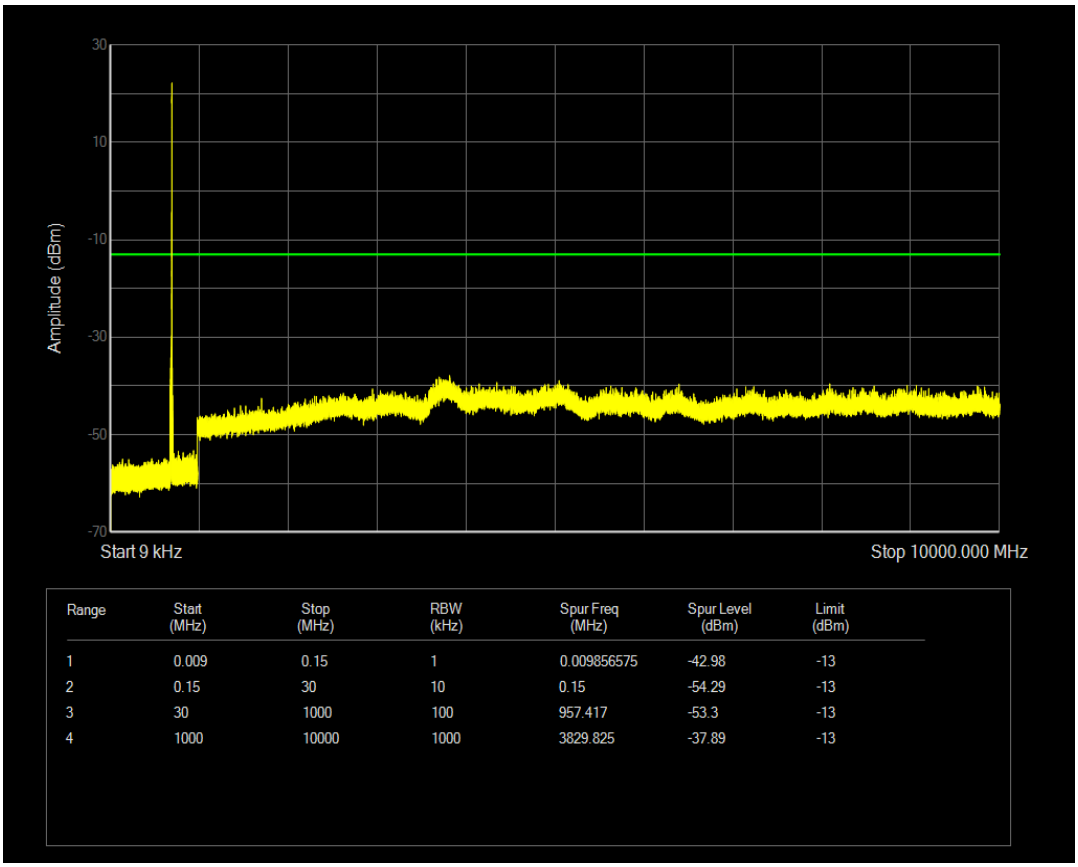
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0116508	-42.65	-13
2	0.15	30	10	0.15671625	-52.55	-13
3	30	1000	100	867.91025	-53.4	-13
4	1000	10000	1000	3882.25	-37.99	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-43.79	-13
2	0.15	30	10	0.15	-54.58	-13
3	30	1000	100	834.421	-52.85	-13
4	1000	10000	1000	3775.825	-37.77	-13

n12 SCS=30kHz DFT_QPSK BW=15MHz Channel=141700 RB=1@37



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009856575	-42.98	-13
2	0.15	30	10	0.15	-54.29	-13
3	30	1000	100	957.417	-53.3	-13
4	1000	10000	1000	3829.825	-37.89	-13