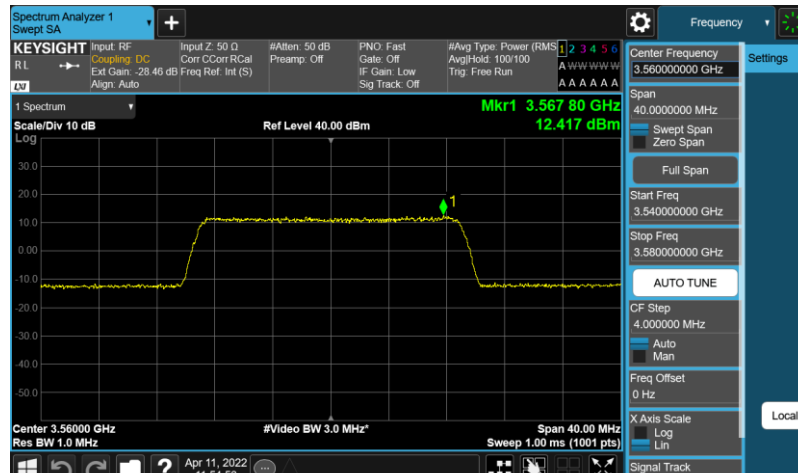
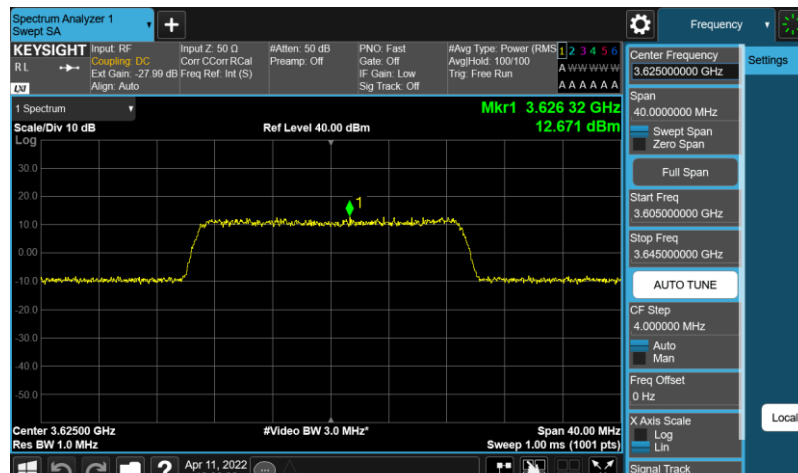


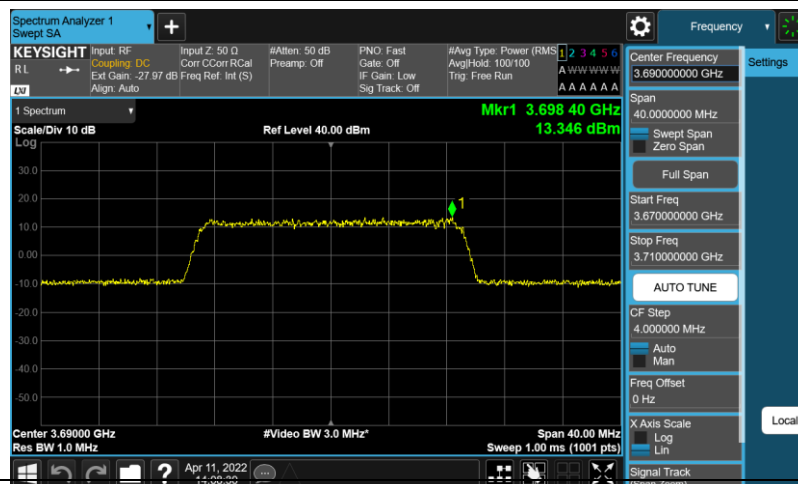
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



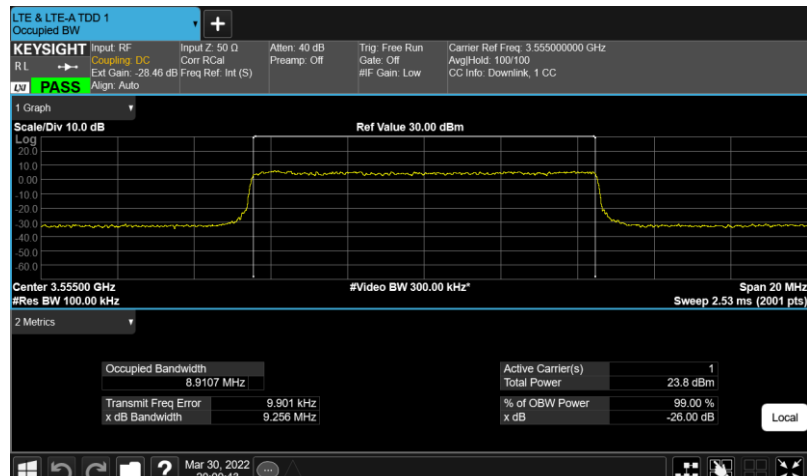
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

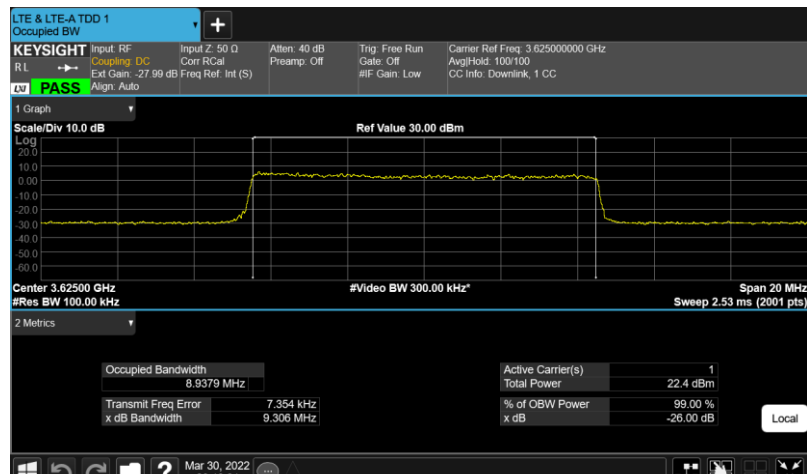
Band	Bandwidth	Modulation	Channel	Mode	99%(MHz)	EBW(MHz)
Band48	10MHz	64QAM	55290	E-TM3.1	8.9107	9.256
Band48	10MHz	64QAM	55990	E-TM3.1	8.9379	9.306
Band48	10MHz	64QAM	56690	E-TM3.1	8.9102	9.288
Band48	10MHz	QPSK	55290	E-TM1.1	8.9020	9.282
Band48	10MHz	QPSK	55990	E-TM1.1	8.9239	9.304
Band48	10MHz	QPSK	56690	E-TM1.1	8.9059	9.287
Band48	20MHz	64QAM	55340	E-TM3.1	17.820	18.47
Band48	20MHz	64QAM	55990	E-TM3.1	17.847	18.51
Band48	20MHz	64QAM	56640	E-TM3.1	17.831	18.49
Band48	20MHz	QPSK	55340	E-TM1.1	17.840	18.46
Band48	20MHz	QPSK	55990	E-TM1.1	17.808	18.49
Band48	20MHz	QPSK	56640	E-TM1.1	17.833	18.51

Test Graphs

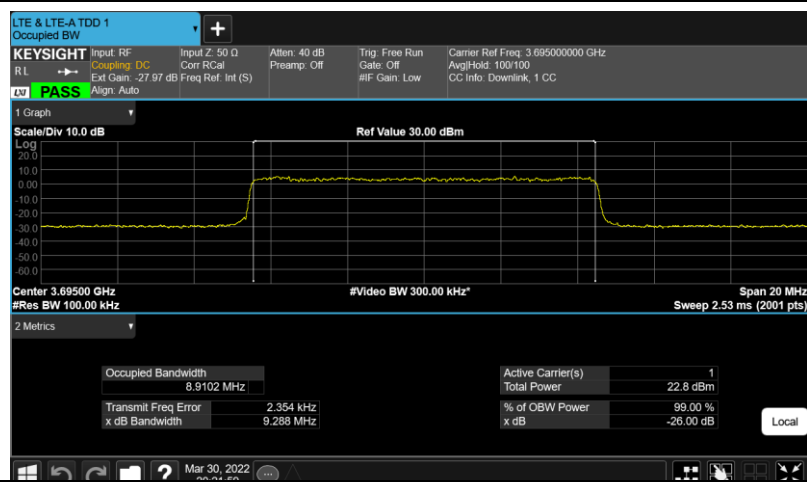
Band48-10MHz-64QAM-55290-E-TM3.1



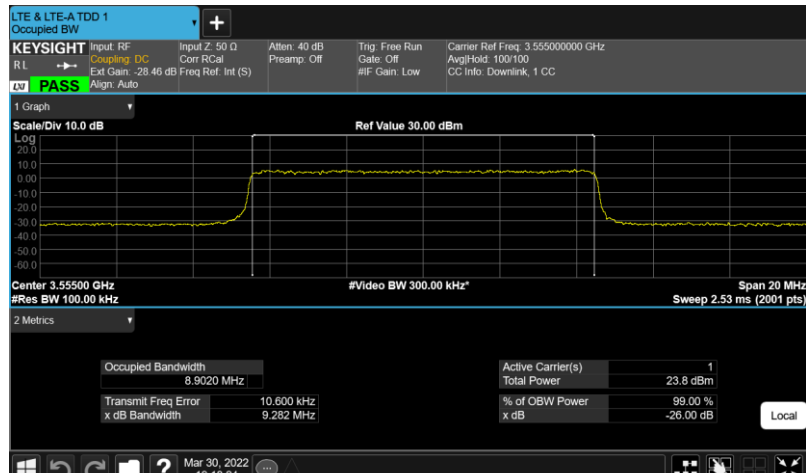
Band48-10MHz-64QAM-55990-E-TM3.1



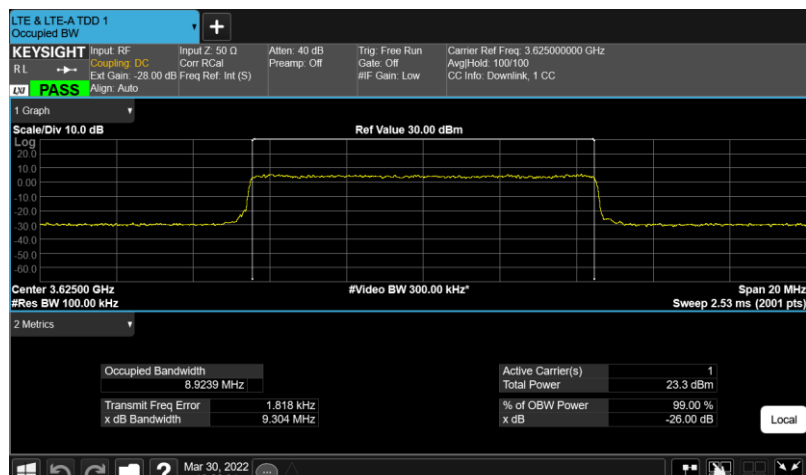
Band48-10MHz-64QAM-56690-E-TM3.1



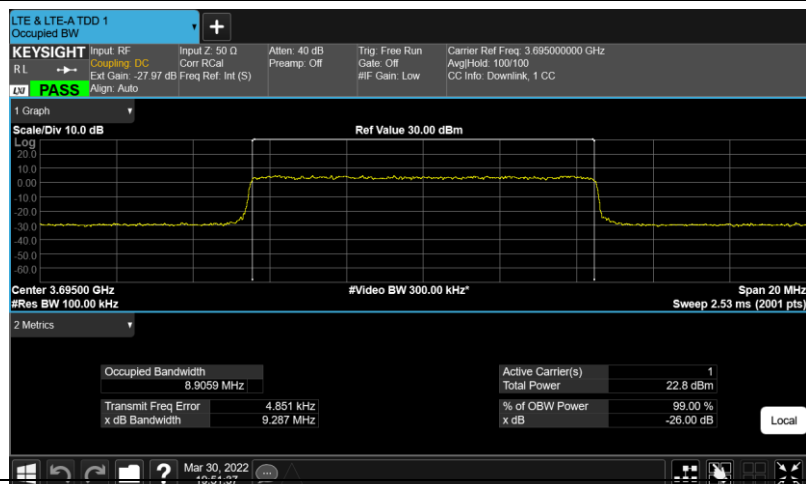
Band48-10MHz-QPSK-55290-E-TM1.1



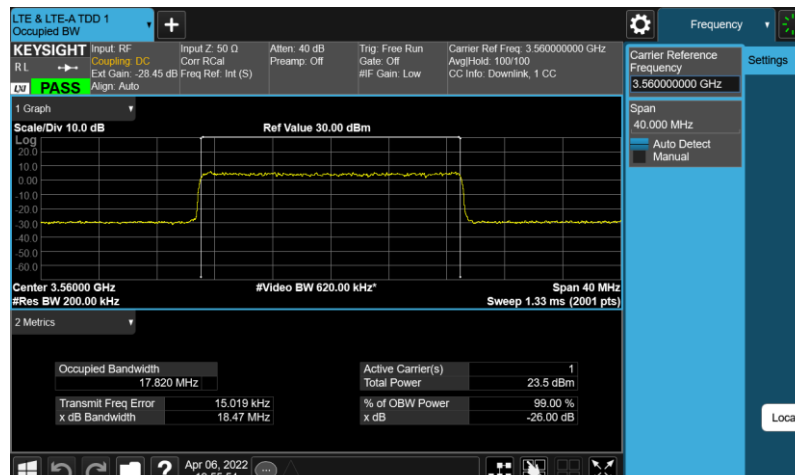
Band48-10MHz-QPSK-55990-E-TM1.1



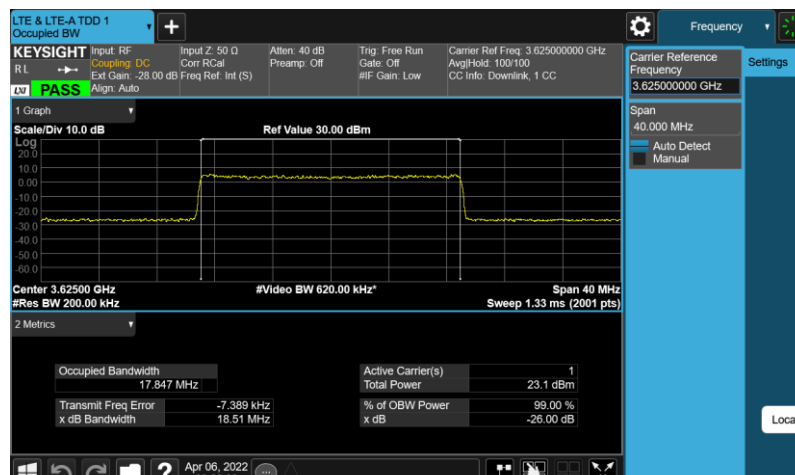
Band48-10MHz-QPSK-56690-E-TM1.1



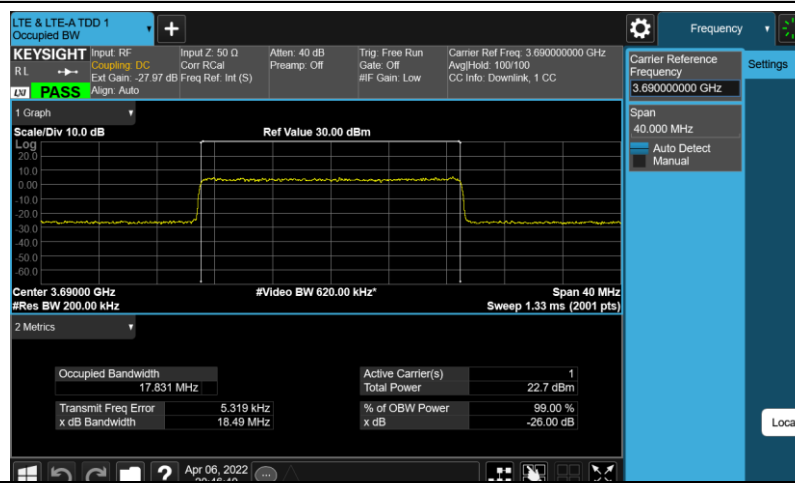
Band48-20MHz-64QAM-55340-E-TM3.1



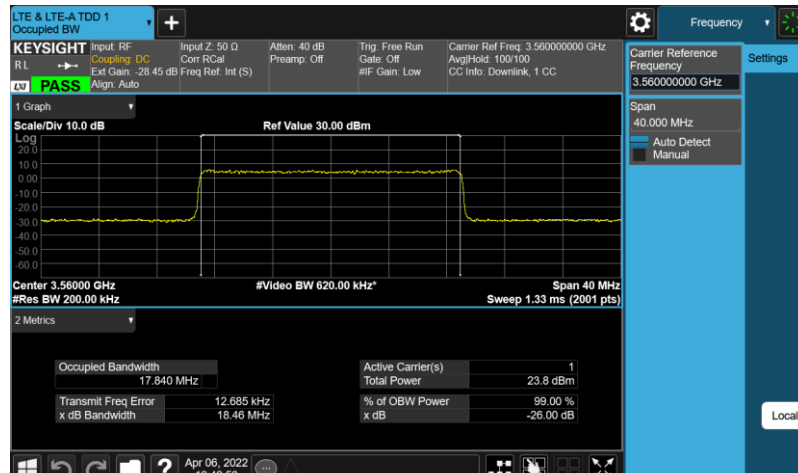
Band48-20MHz-64QAM-55990-E-TM3.1



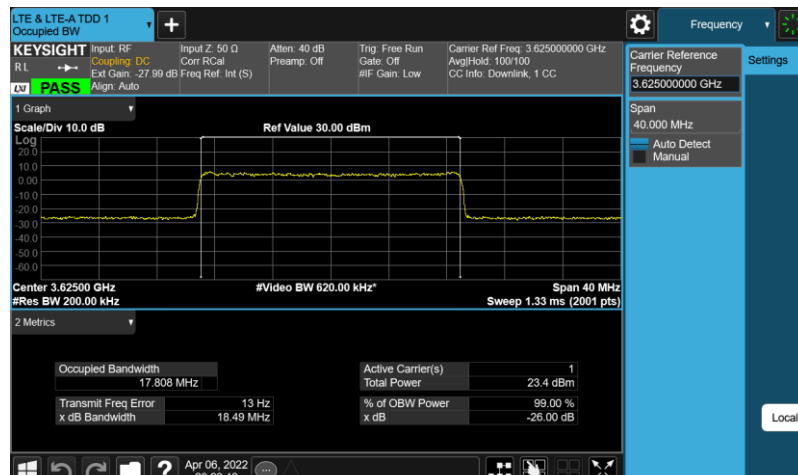
Band48-20MHz-64QAM-56640-E-TM3.1



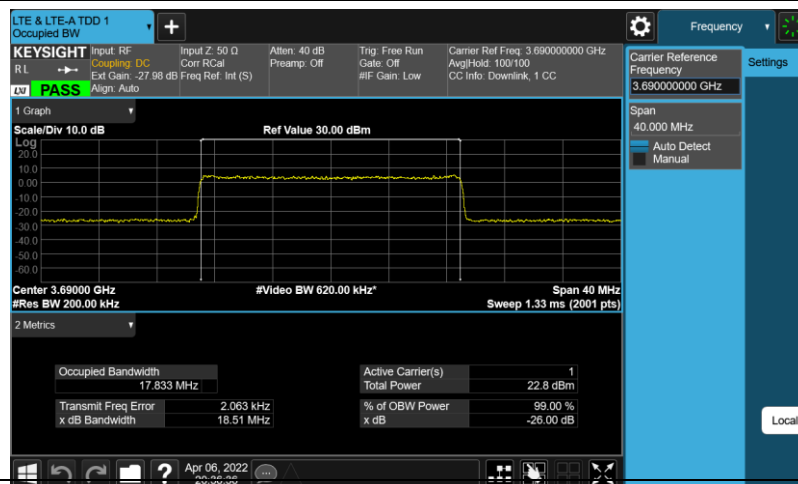
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



Appendix D: Frequency Stability

Test Result

Voltage measurement									
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Band48	10MHz	64QAM	55990	E-TM3.1	102	25	82	0.023	within the authorized bands
Band48	10MHz	64QAM	55990	E-TM3.1	120	25	78	0.022	
Band48	10MHz	64QAM	55990	E-TM3.1	138	25	81	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	102	25	73	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	25	74	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	138	25	71	0.020	
Band48	20MHz	64QAM	55990	E-TM3.1	102	25	75	0.021	
Band48	20MHz	64QAM	55990	E-TM3.1	120	25	74	0.020	
Band48	20MHz	64QAM	55990	E-TM3.1	138	25	76	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	102	25	78	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	120	25	79	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	138	25	72	0.020	

Temperature measurement									
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Band48	10MHz	64QAM	55990	E-TM3.1	120	-30	79	0.022	within the authorized bands
Band48	10MHz	64QAM	55990	E-TM3.1	120	-20	80	0.022	
Band48	10MHz	64QAM	55990	E-TM3.1	120	-10	82	0.023	
Band48	10MHz	64QAM	55990	E-TM3.1	120	0	76	0.021	
Band48	10MHz	64QAM	55990	E-TM3.1	120	10	65	0.018	
Band48	10MHz	64QAM	55990	E-TM3.1	120	20	78	0.022	
Band48	10MHz	64QAM	55990	E-TM3.1	120	30	76	0.021	
Band48	10MHz	64QAM	55990	E-TM3.1	120	40	75	0.021	
Band48	10MHz	64QAM	55990	E-TM3.1	120	50	69	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-30	64	0.018	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-20	68	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-10	71	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	0	70	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	10	69	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	20	64	0.018	
Band48	10MHz	QPSK	55990	E-TM1.1	120	30	76	0.021	

Band48	10MHz	QPSK	55990	E-TM1.1	120	40	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	50	69	0.019	
Band48	20MHz	64QAM	55990	E-TM3.1	120	-30	73	0.020	
Band48	20MHz	64QAM	55990	E-TM3.1	120	-20	64	0.018	
Band48	20MHz	64QAM	55990	E-TM3.1	120	-10	58	0.016	
Band48	20MHz	64QAM	55990	E-TM3.1	120	0	66	0.018	
Band48	20MHz	64QAM	55990	E-TM3.1	120	10	64	0.018	
Band48	20MHz	64QAM	55990	E-TM3.1	120	20	75	0.021	
Band48	20MHz	64QAM	55990	E-TM3.1	120	30	68	0.019	
Band48	20MHz	64QAM	55990	E-TM3.1	120	40	77	0.021	
Band48	20MHz	64QAM	55990	E-TM3.1	120	50	74	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-30	73	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-20	62	0.017	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-10	68	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	0	62	0.017	
Band48	20MHz	QPSK	55990	E-TM1.1	120	10	67	0.018	
Band48	20MHz	QPSK	55990	E-TM1.1	120	20	65	0.018	
Band48	20MHz	QPSK	55990	E-TM1.1	120	30	73	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	40	69	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	50	64	0.018	

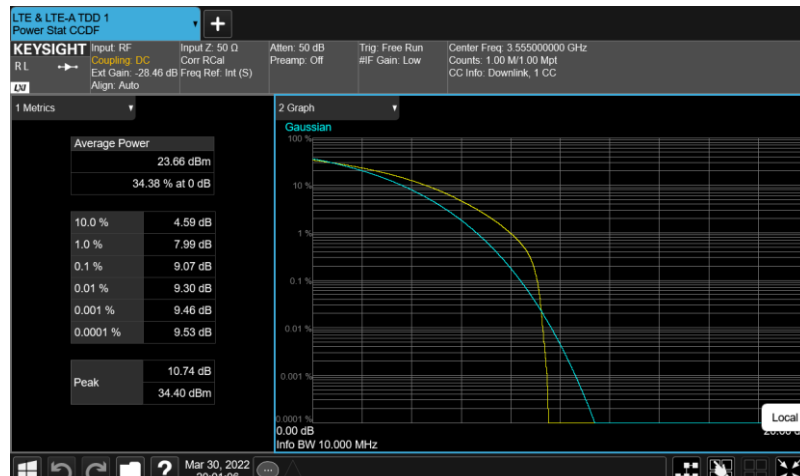
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band48	10MHz	64QAM	55290	E-TM3.1	9.07
Band48	10MHz	64QAM	55990	E-TM3.1	8.92
Band48	10MHz	64QAM	56690	E-TM3.1	8.87
Band48	10MHz	QPSK	55290	E-TM1.1	8.95
Band48	10MHz	QPSK	55990	E-TM1.1	8.88
Band48	10MHz	QPSK	56690	E-TM1.1	8.93
Band48	20MHz	64QAM	55340	E-TM3.1	8.61
Band48	20MHz	64QAM	55990	E-TM3.1	9.02
Band48	20MHz	64QAM	56640	E-TM3.1	8.99
Band48	20MHz	QPSK	55340	E-TM1.1	9.02
Band48	20MHz	QPSK	55990	E-TM1.1	9.17
Band48	20MHz	QPSK	56640	E-TM1.1	8.73

Test Graphs

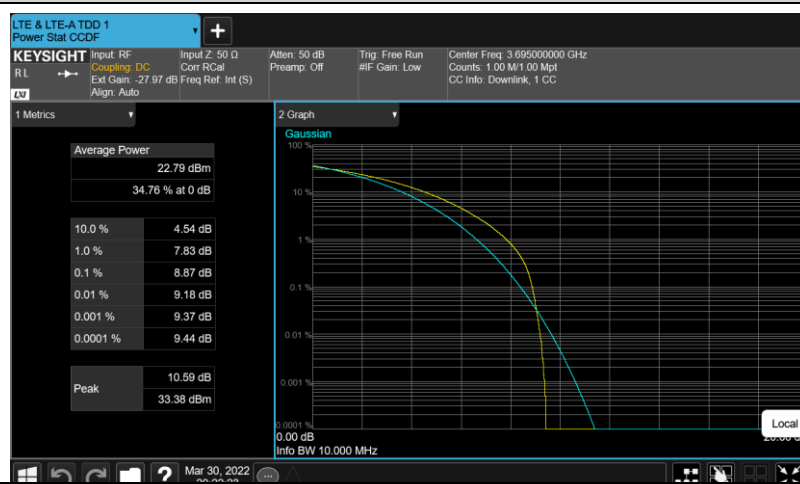
Band48-10MHz-64QAM-55290-E-TM3.1



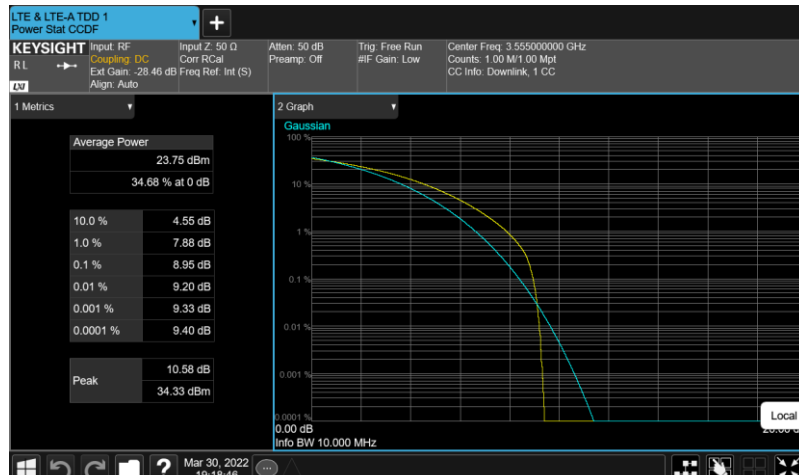
Band48-10MHz-64QAM-55990-E-TM3.1



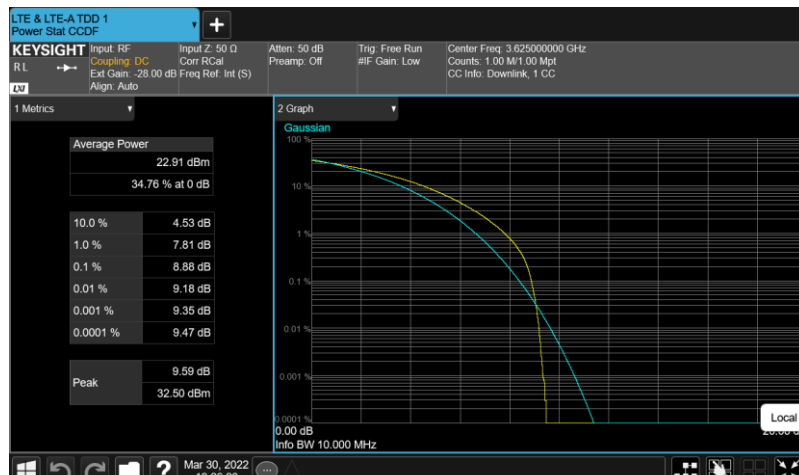
Band48-10MHz-64QAM-56690-E-TM3.1



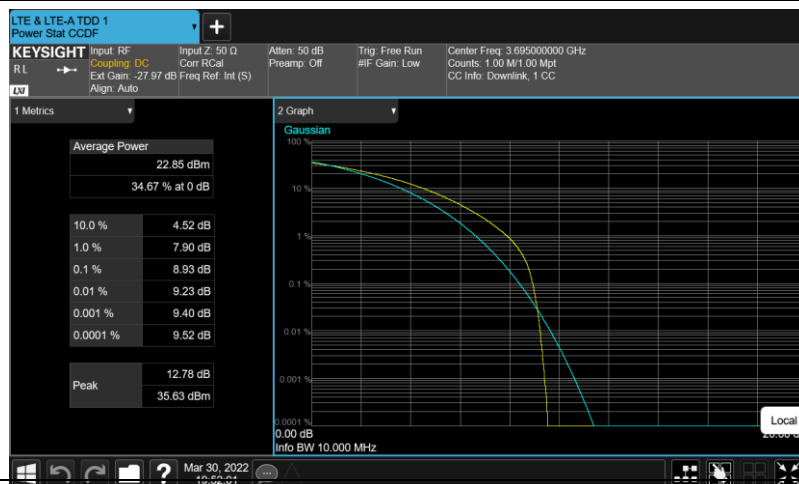
Band48-10MHz-QPSK-55290-E-TM1.1



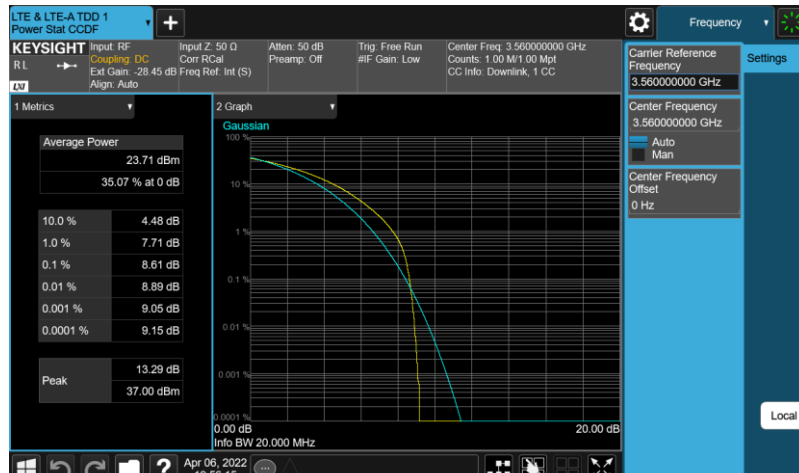
Band48-10MHz-QPSK-55990-E-TM1.1



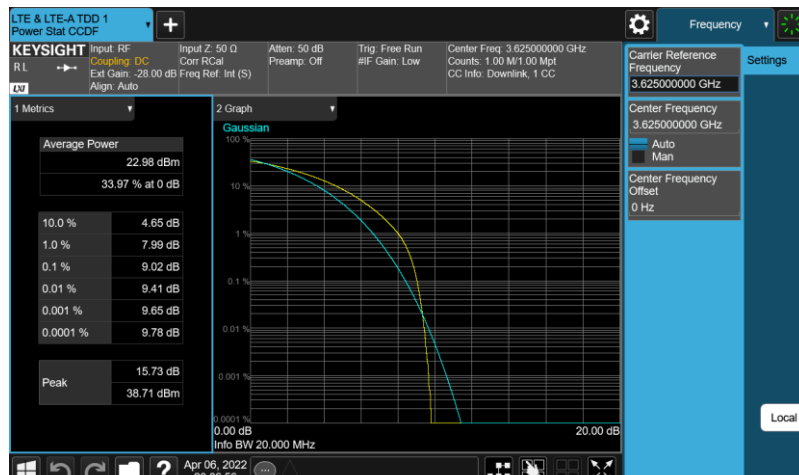
Band48-10MHz-QPSK-56690-E-TM1.1



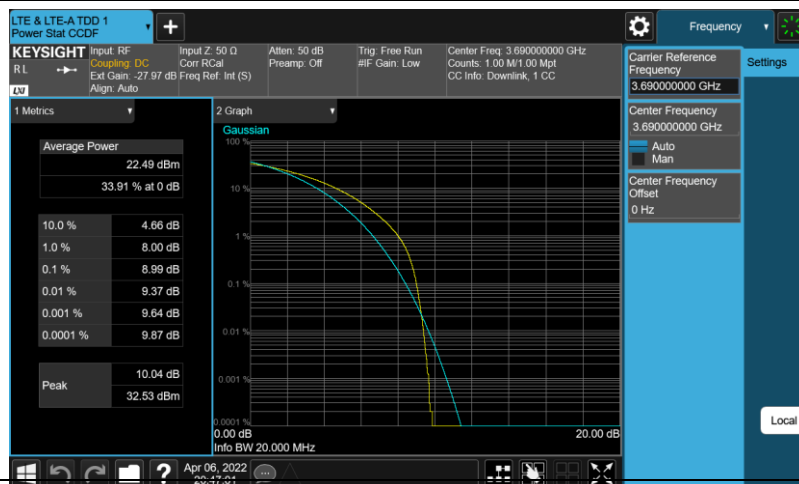
Band48-20MHz-64QAM-55340-E-TM3.1



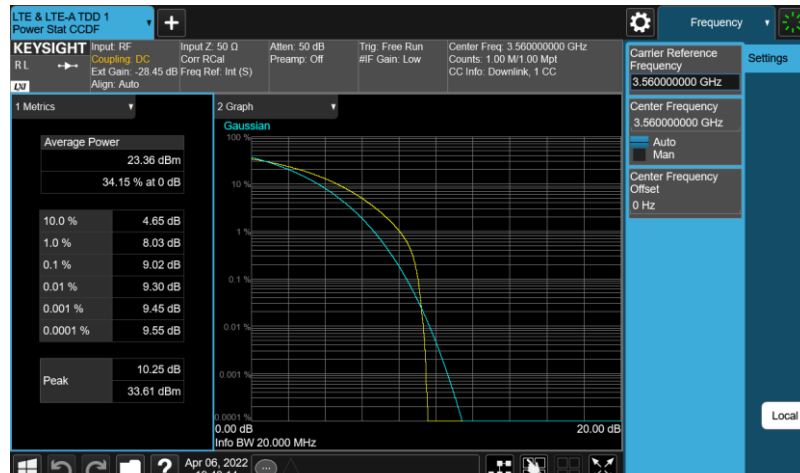
Band48-20MHz-64QAM-55990-E-TM3.1



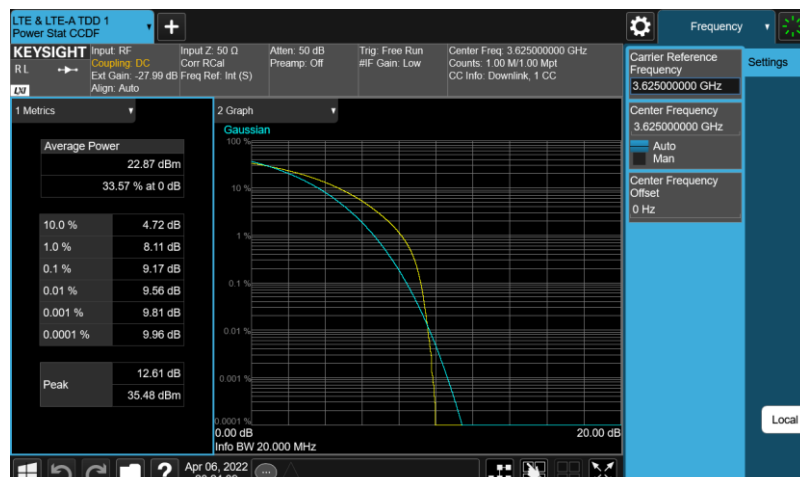
Band48-20MHz-64QAM-56640-E-TM3.1



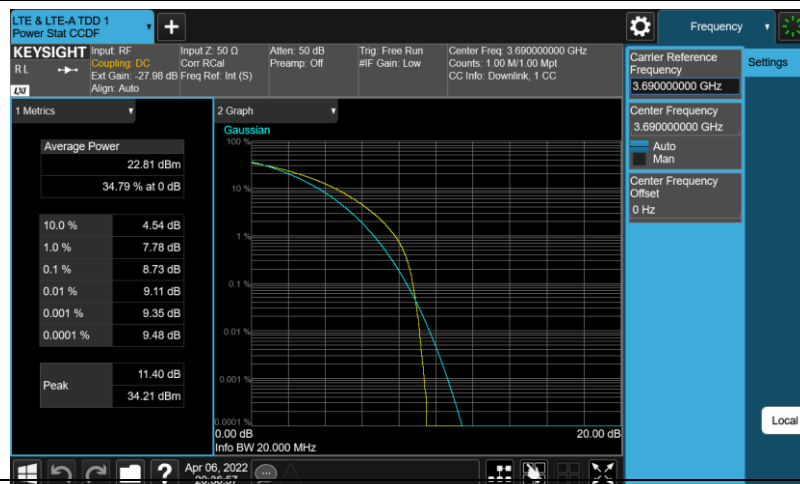
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



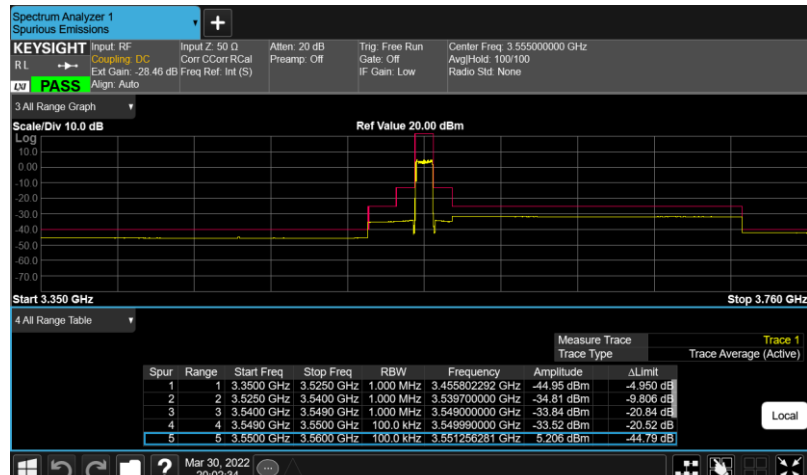
Band48-20MHz-QPSK-56640-E-TM1.1



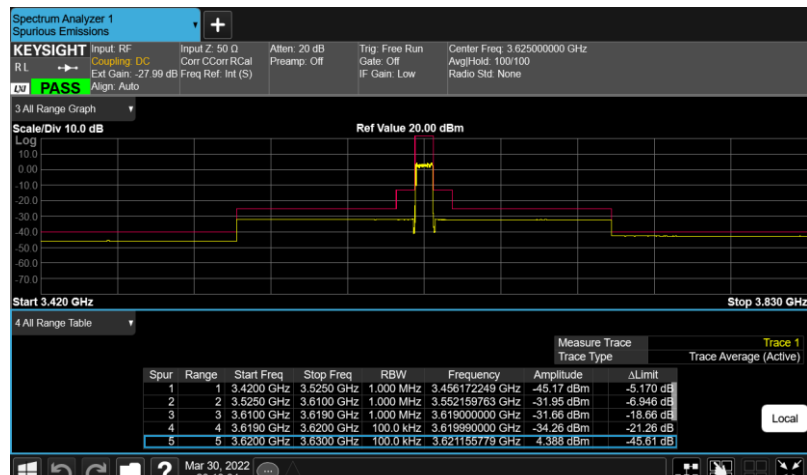
Appendix F: Emission Mask

Test Graphs

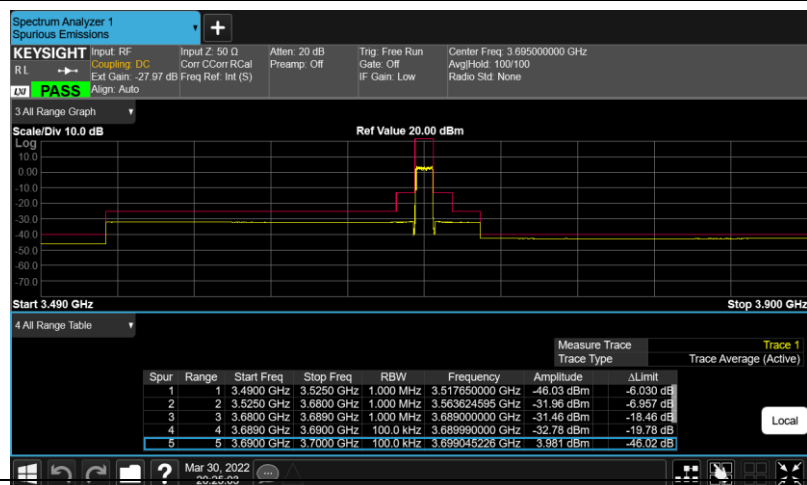
Band48-10MHz-64QAM-55290-E-TM3.1



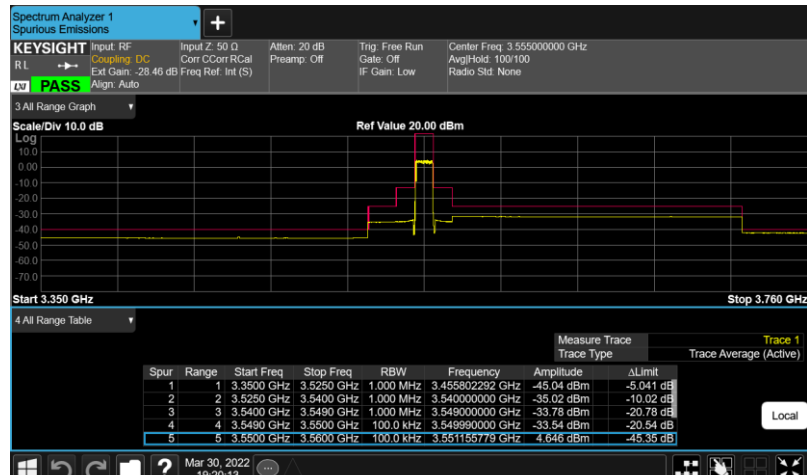
Band48-10MHz-64QAM-55990-E-TM3.1



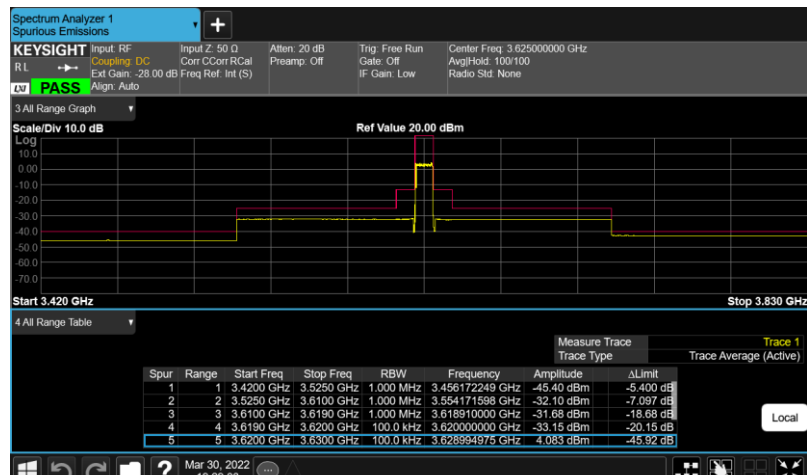
Band48-10MHz-64QAM-56690-E-TM3.1



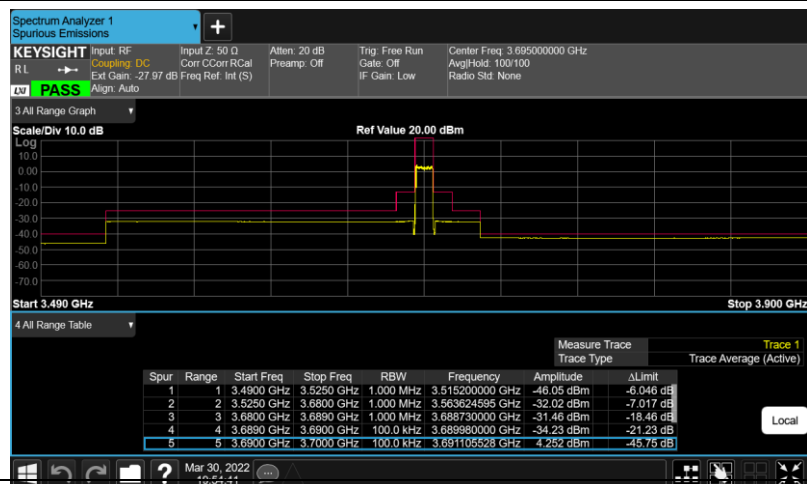
Band48-10MHz-QPSK-55290-E-TM1.1



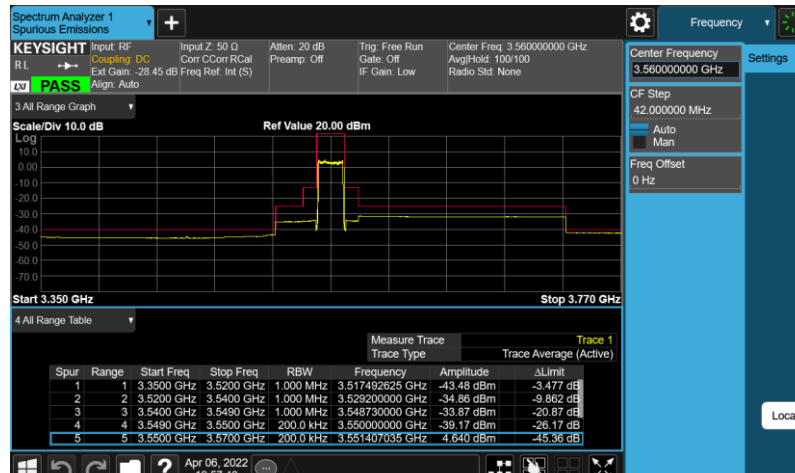
Band48-10MHz-QPSK-55990-E-TM1.1



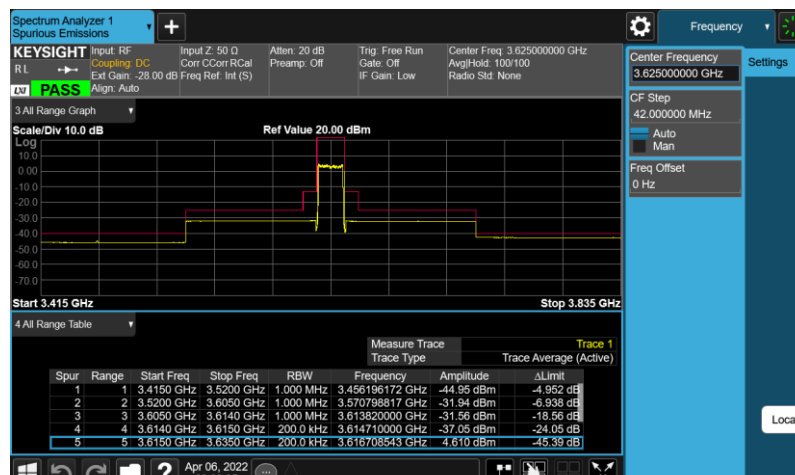
Band48-10MHz-QPSK-56690-E-TM1.1



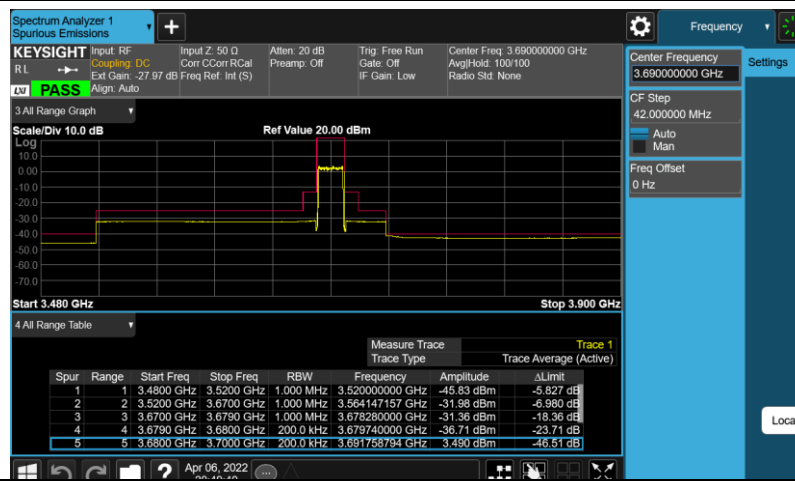
Band48-20MHz-64QAM-55340-E-TM3.1



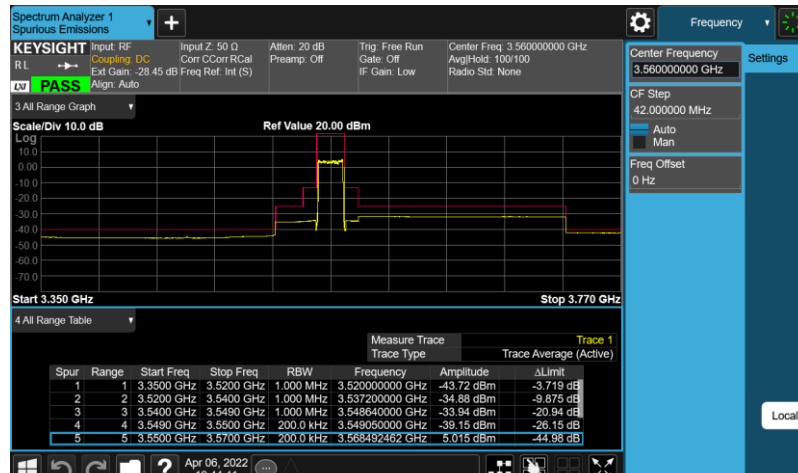
Band48-20MHz-64QAM-55990-E-TM3.1



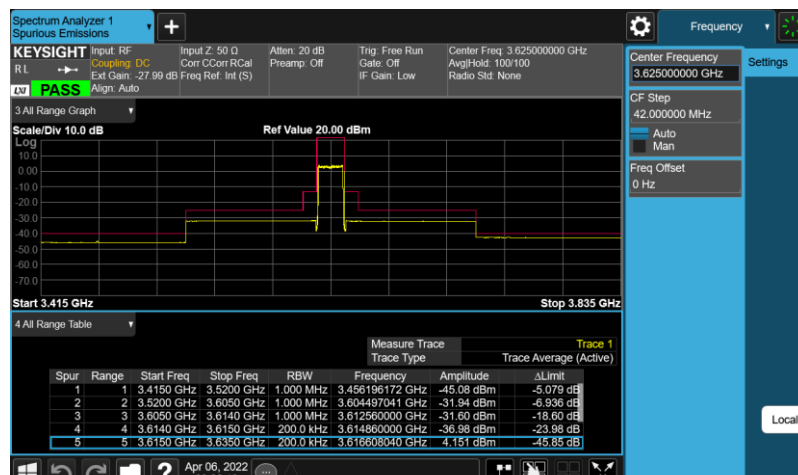
Band48-20MHz-64QAM-56640-E-TM3.1



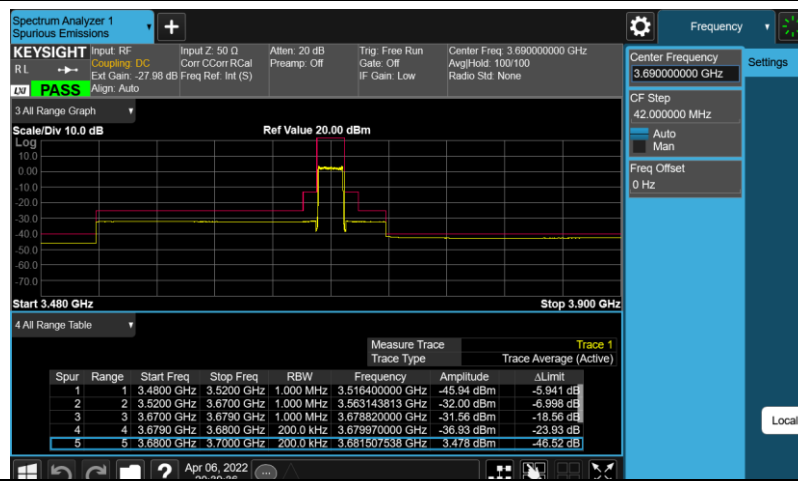
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



Appendix G: Conducted Spurious Emission

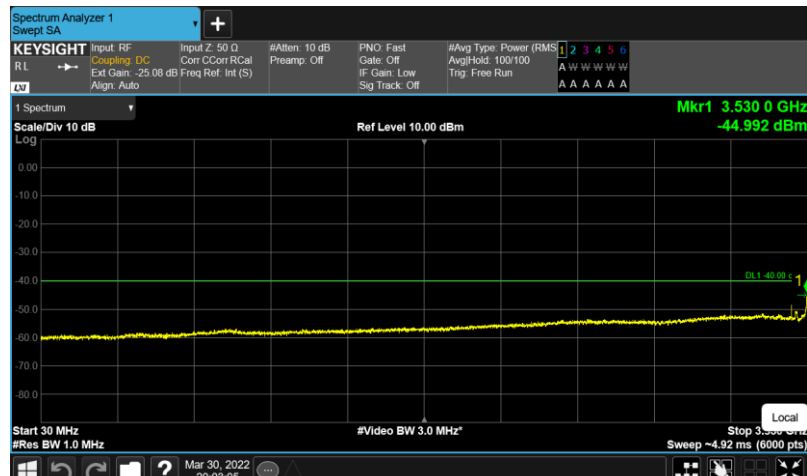
Test Result

Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band48	10MHz	64QAM	55290	E-TM3.1	30-3530	-44.99	PASS
Band48	10MHz	64QAM	55290	E-TM3.1	3720-6000	-51.96	PASS
Band48	10MHz	64QAM	55290	E-TM3.1	6000-40000	-52.69	PASS
Band48	10MHz	64QAM	55990	E-TM3.1	30-3530	-47.78	PASS
Band48	10MHz	64QAM	55990	E-TM3.1	3720-6000	-51.77	PASS
Band48	10MHz	64QAM	55990	E-TM3.1	6000-40000	-52.64	PASS
Band48	10MHz	64QAM	56690	E-TM3.1	30-3530	-47.88	PASS
Band48	10MHz	64QAM	56690	E-TM3.1	3720-6000	-48.62	PASS
Band48	10MHz	64QAM	56690	E-TM3.1	6000-40000	-52.69	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	30-3530	-47.54	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	3720-6000	-51.92	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	6000-40000	-52.72	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	30-3530	-47.16	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	3720-6000	-51.88	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	6000-40000	-52.74	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	30-3530	-48.02	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	3720-6000	-49.43	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	6000-40000	-52.70	PASS
Band48	20MHz	64QAM	55340	E-TM3.1	30-3530	-40.93	PASS
Band48	20MHz	64QAM	55340	E-TM3.1	3720-6000	-51.87	PASS
Band48	20MHz	64QAM	55340	E-TM3.1	6000-40000	-52.73	PASS
Band48	20MHz	64QAM	55990	E-TM3.1	30-3530	-47.66	PASS
Band48	20MHz	64QAM	55990	E-TM3.1	3720-6000	-51.98	PASS
Band48	20MHz	64QAM	55990	E-TM3.1	6000-40000	-52.66	PASS
Band48	20MHz	64QAM	56640	E-TM3.1	30-3530	-46.95	PASS
Band48	20MHz	64QAM	56640	E-TM3.1	3720-6000	-41.31	PASS
Band48	20MHz	64QAM	56640	E-TM3.1	6000-40000	-52.57	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	30-3530	-43.04	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	3720-6000	-52.01	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	6000-40000	-52.74	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	30-3530	-47.58	PASS

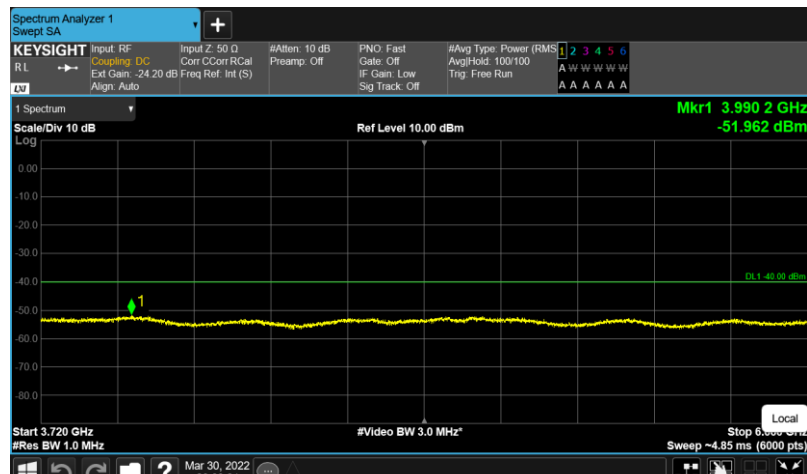
Band48	20MHz	QPSK	55990	E-TM1.1	3720-6000	-52.08	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	6000-40000	-52.73	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	30-3530	-47.23	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	3720-6000	-43.29	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	6000-40000	-52.64	PASS

Test Graphs

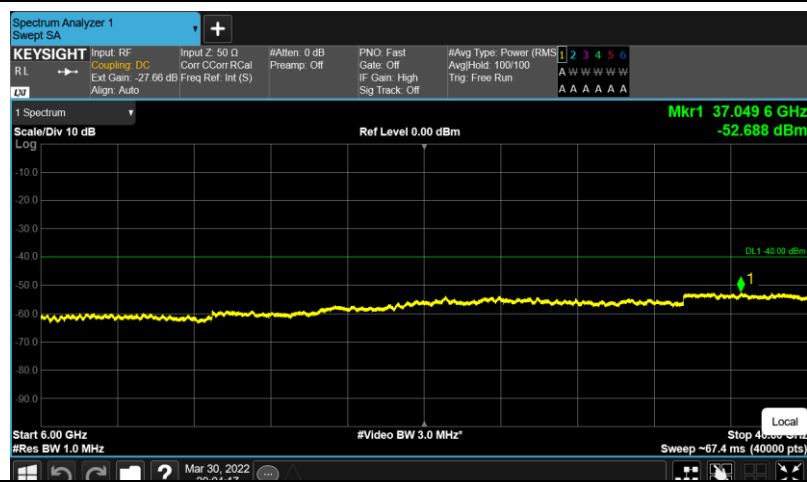
Band48-10MHz-64QAM-55290-E-TM3.1-30-3530



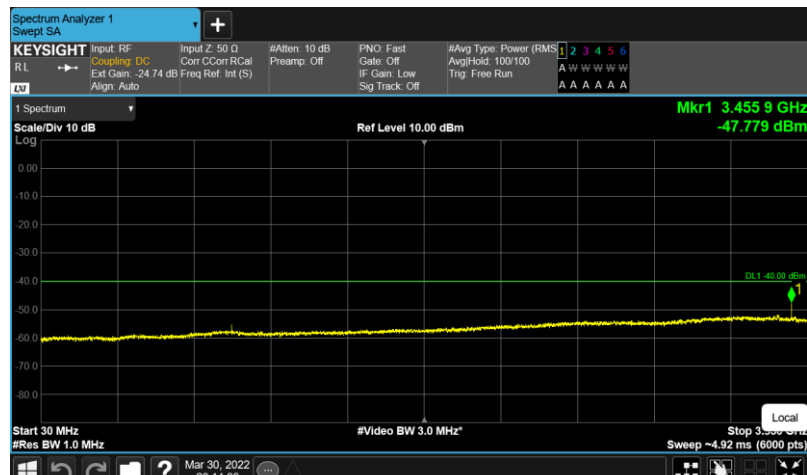
Band48-10MHz-64QAM-55290-E-TM3.1-3720-6000



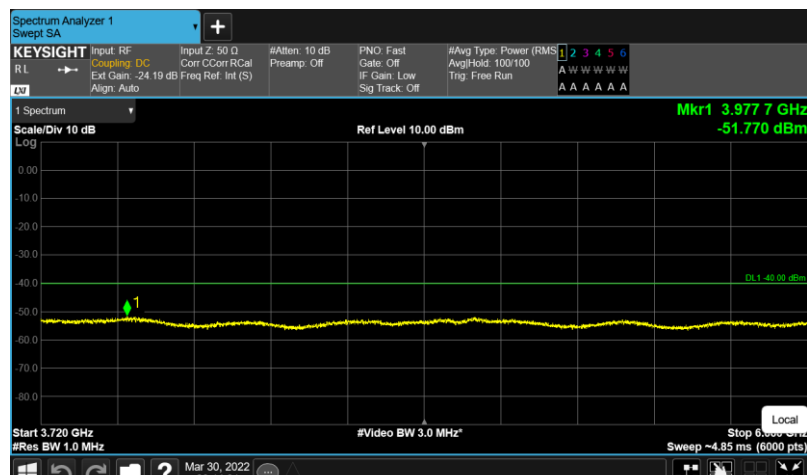
Band48-10MHz-64QAM-55290-E-TM3.1-6000-40000



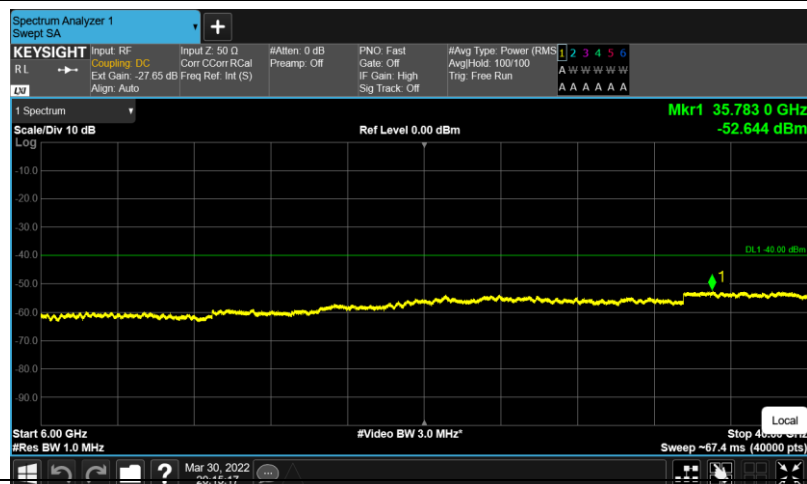
Band48-10MHz-64QAM-55990-E-TM3.1-30-3530



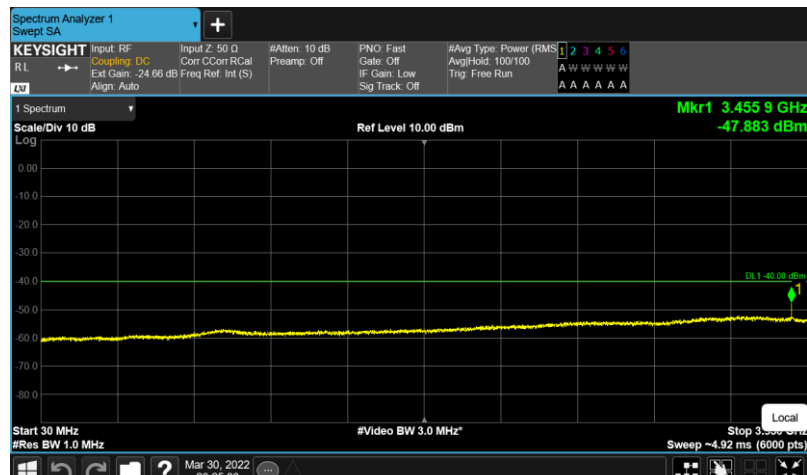
Band48-10MHz-64QAM-55990-E-TM3.1-3720-6000



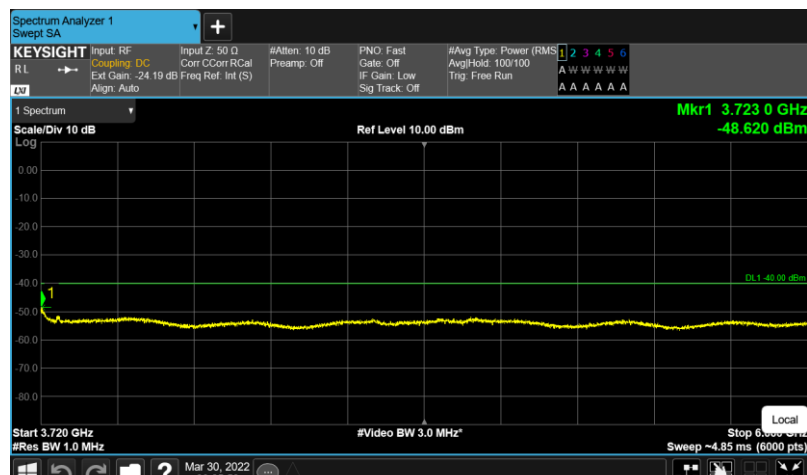
Band48-10MHz-64QAM-55990-E-TM3.1-6000-40000



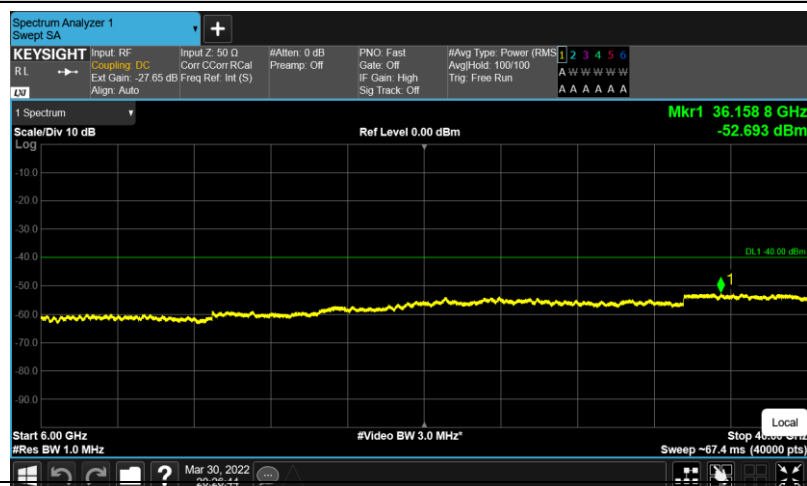
Band48-10MHz-64QAM-56690-E-TM3.1-30-3530



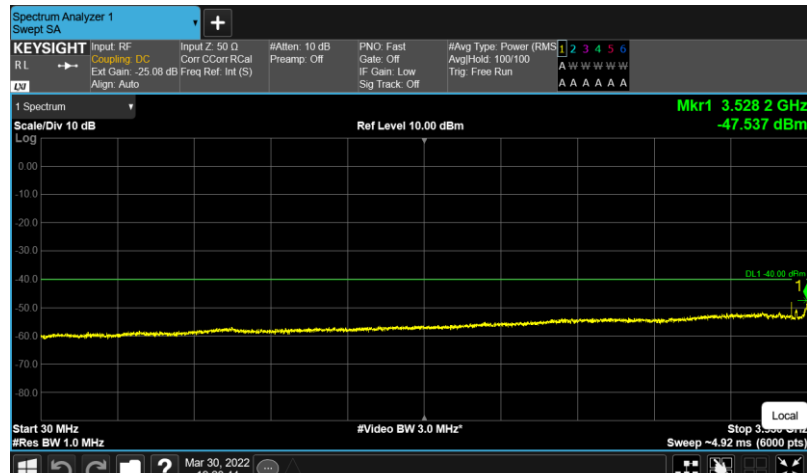
Band48-10MHz-64QAM-56690-E-TM3.1-3720-6000



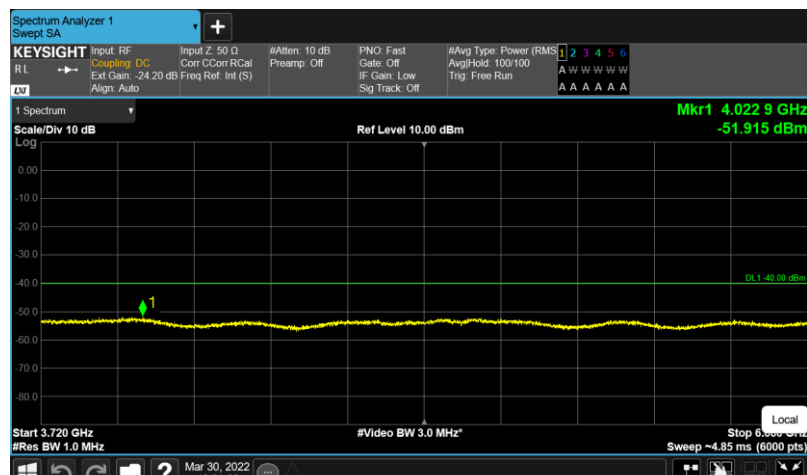
Band48-10MHz-64QAM-56690-E-TM3.1-6000-40000



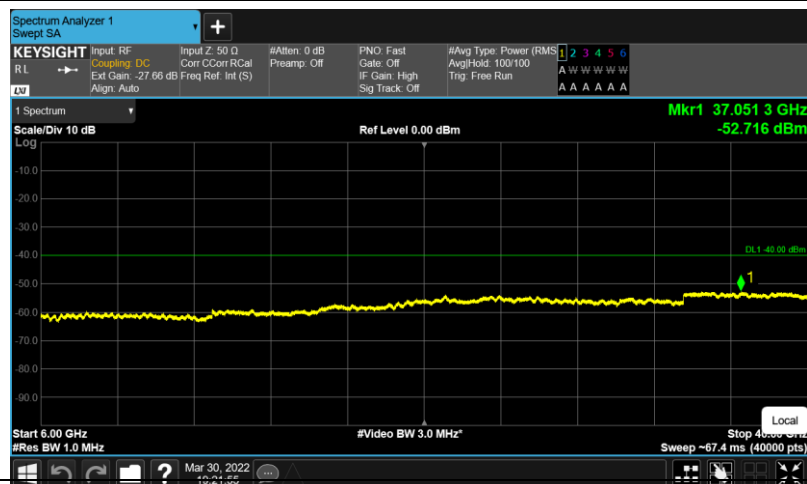
Band48-10MHz-QPSK-55290-E-TM1.1-30-3530



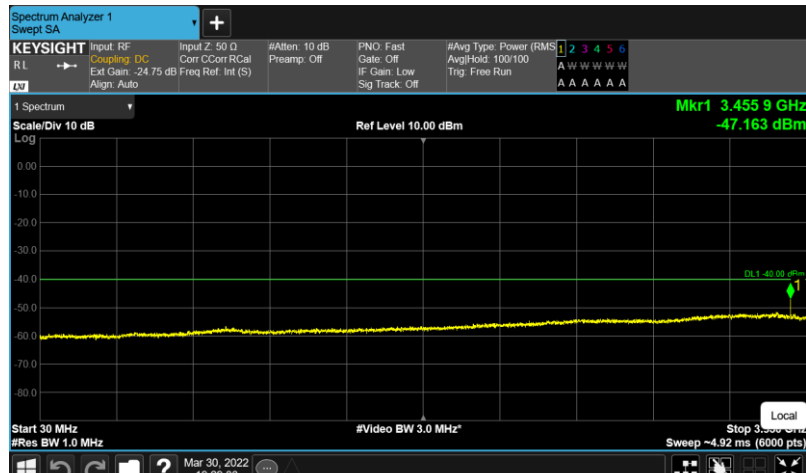
Band48-10MHz-QPSK-55290-E-TM1.1-3720-6000



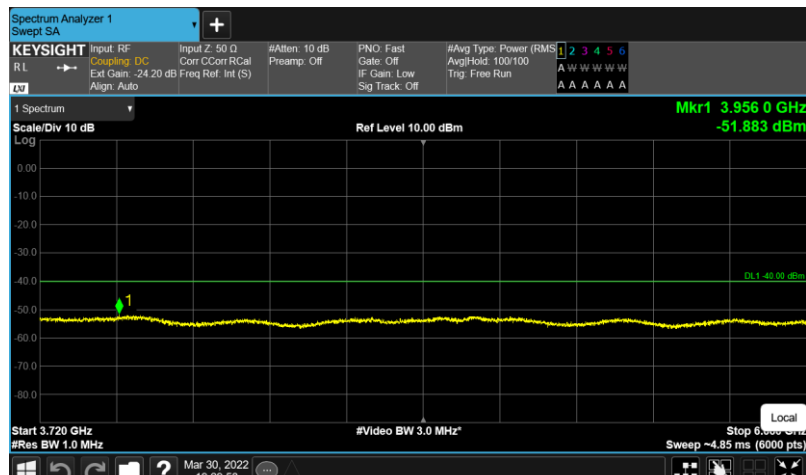
Band48-10MHz-QPSK-55290-E-TM1.1-6000-40000



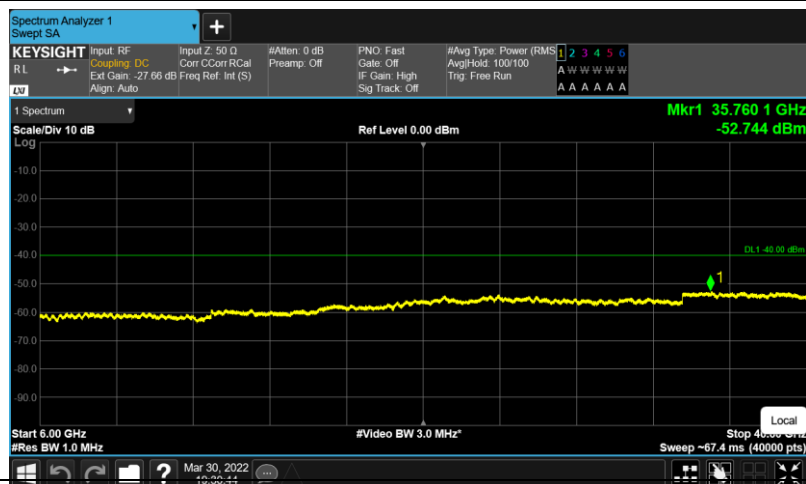
Band48-10MHz-QPSK-55990-E-TM1.1-30-3530



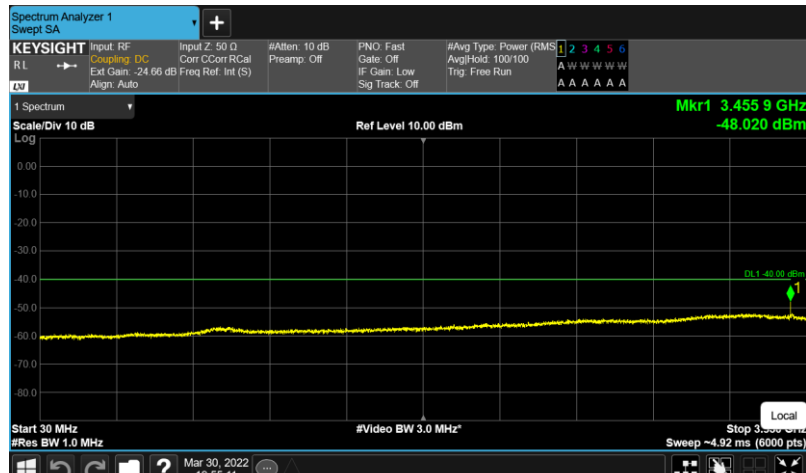
Band48-10MHz-QPSK-55990-E-TM1.1-3720-6000



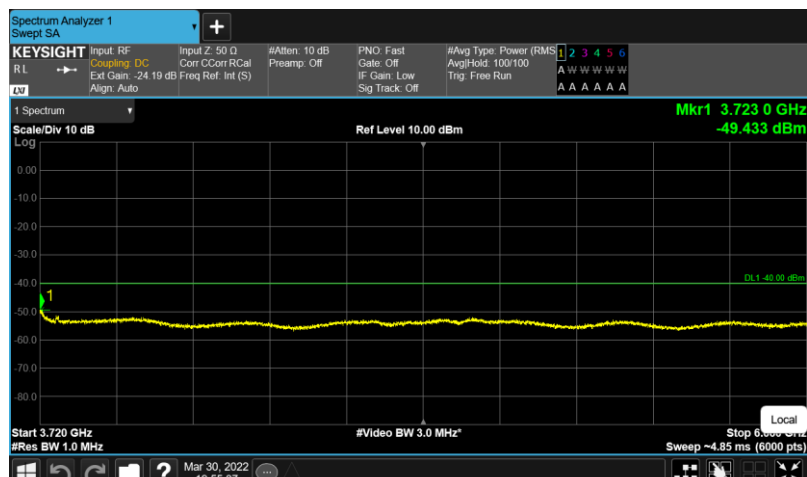
Band48-10MHz-QPSK-55990-E-TM1.1-6000-40000



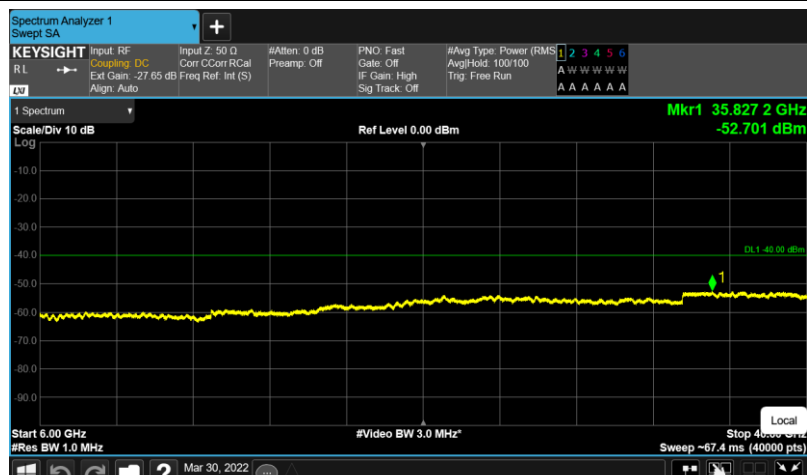
Band48-10MHz-QPSK-56690-E-TM1.1-30-3530



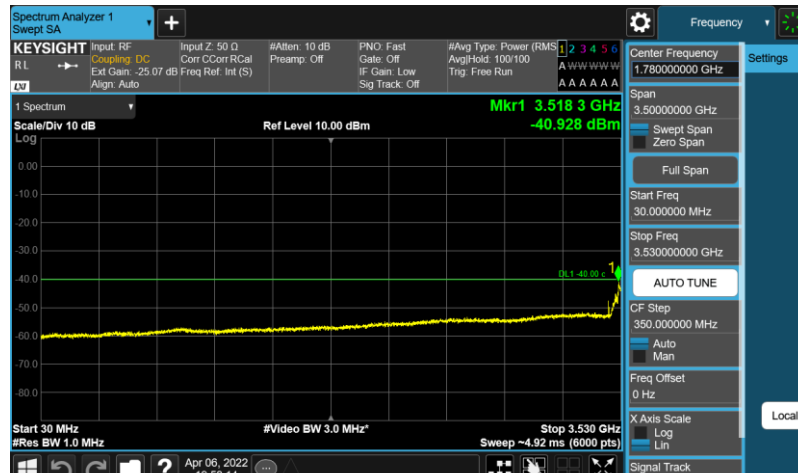
Band48-10MHz-QPSK-56690-E-TM1.1-3720-6000



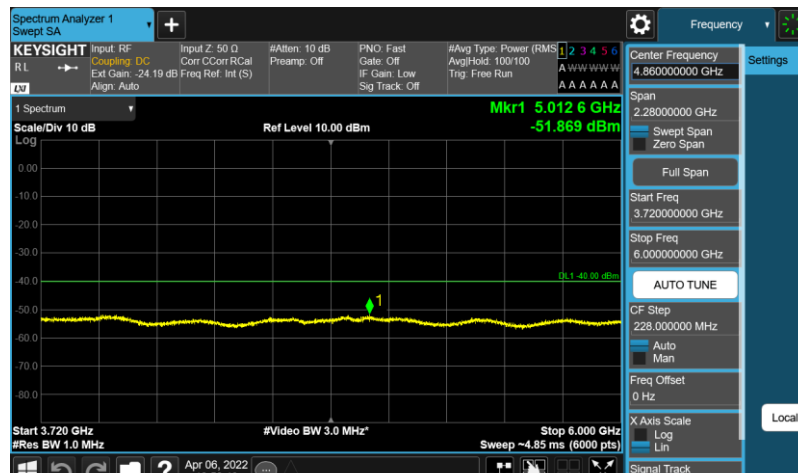
Band48-10MHz-QPSK-56690-E-TM1.1-6000-40000



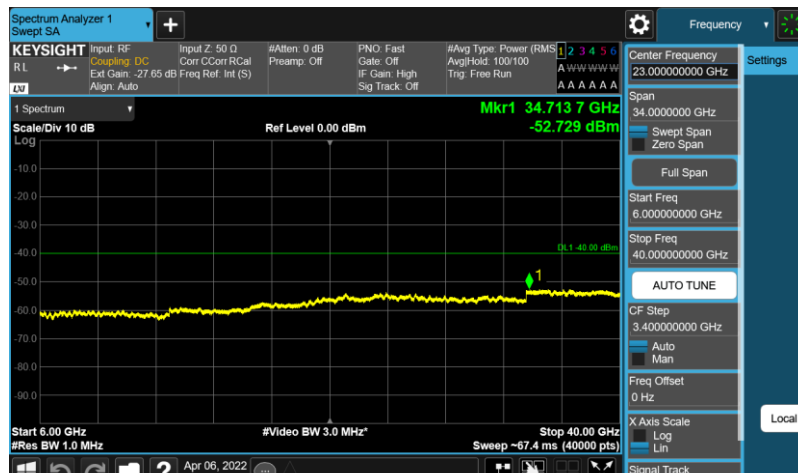
Band48-20MHz-64QAM-55340-E-TM3.1-30-3530



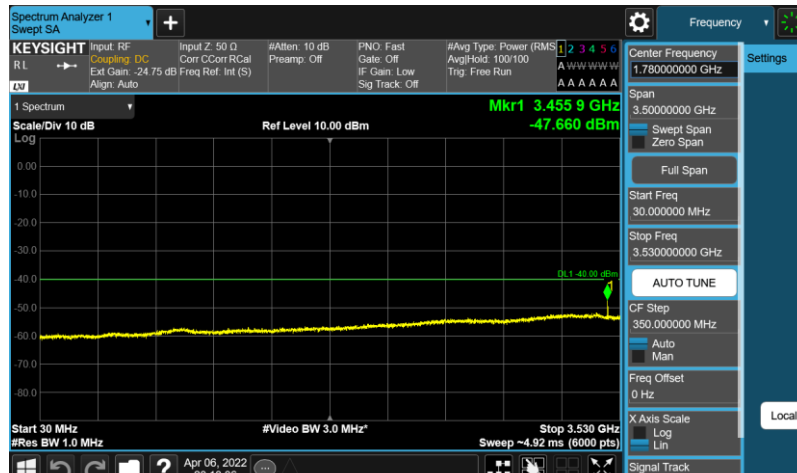
Band48-20MHz-64QAM-55340-E-TM3.1-3720-6000



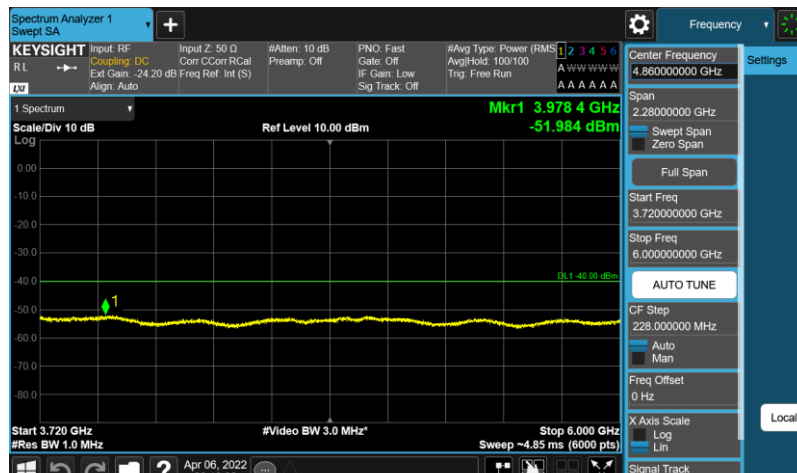
Band48-20MHz-64QAM-55340-E-TM3.1-6000-40000



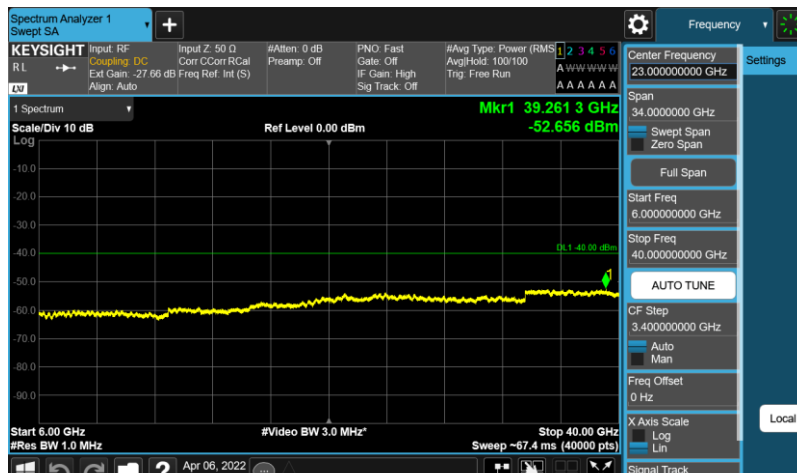
Band48-20MHz-64QAM-55990-E-TM3.1-30-3530



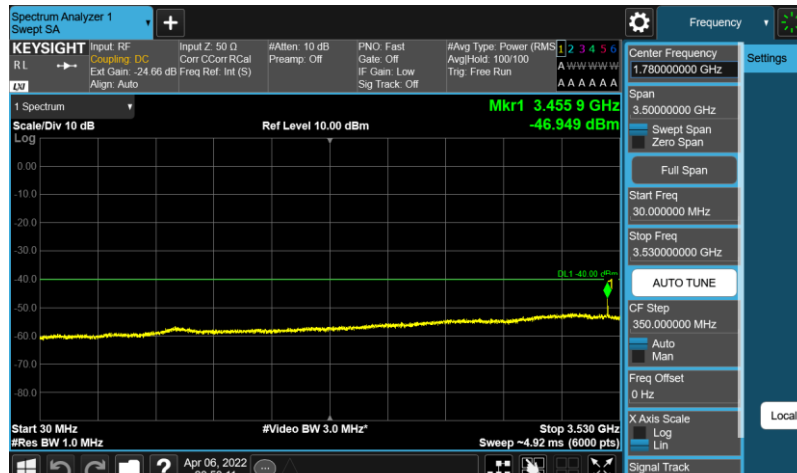
Band48-20MHz-64QAM-55990-E-TM3.1-3720-6000



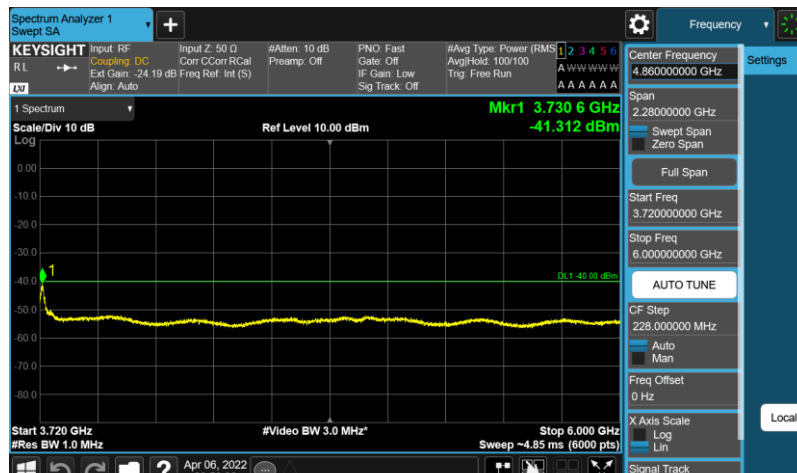
Band48-20MHz-64QAM-55990-TM3.1A-6000-40000



Band48-20MHz-64QAM-56640-E-TM3.1-30-3530



Band48-20MHz-64QAM-56640-E-TM3.1-3720-6000



Band48-20MHz-64QAM-56640-E-TM3.1-6000-40000

