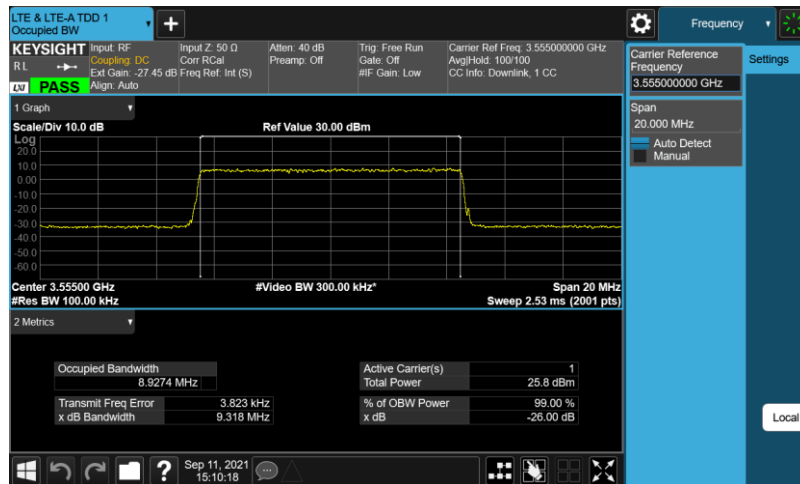
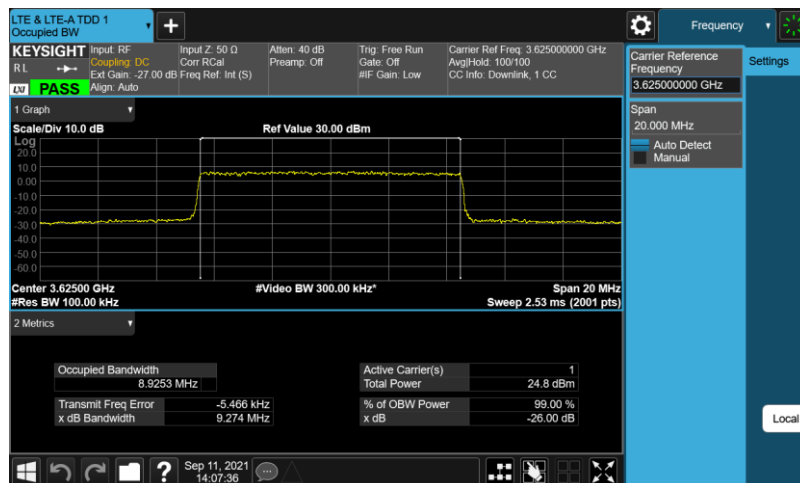


Test Graphs

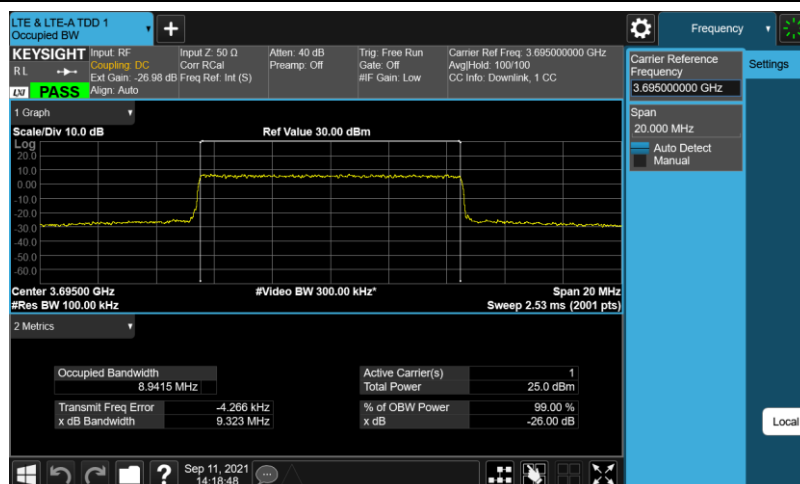
Band48-10MHz-256QAM-55290-E-TM3.1A



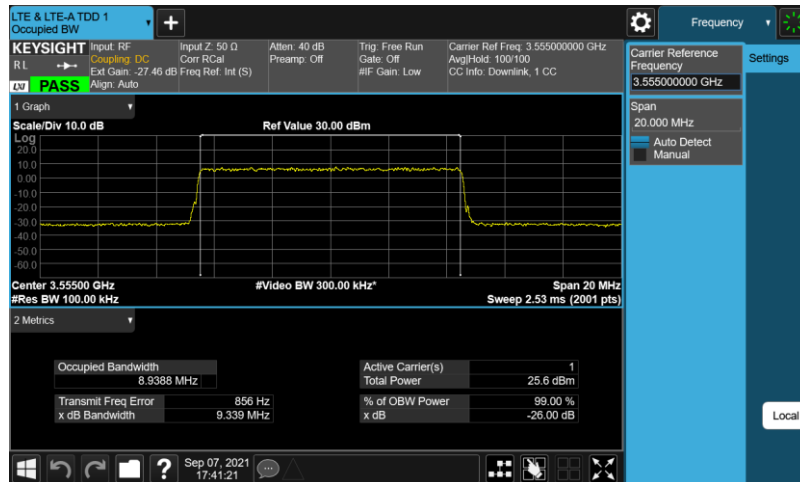
Band48-10MHz-256QAM-55990-E-TM3.1A



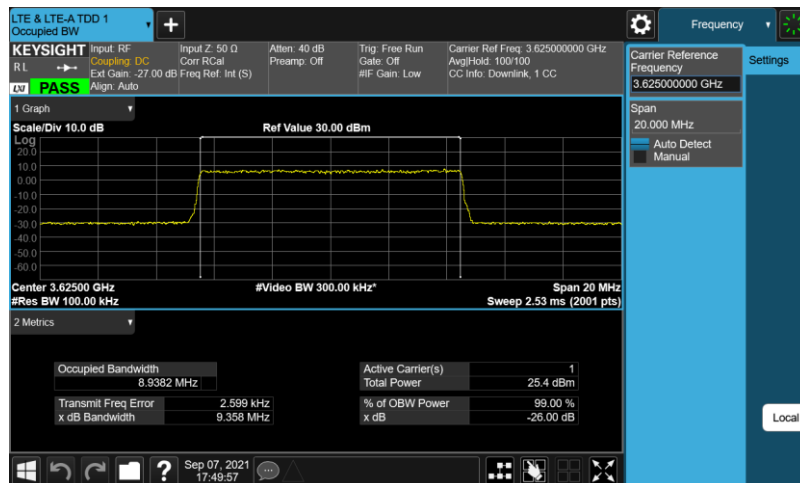
Band48-10MHz-256QAM-56690-E-TM3.1A



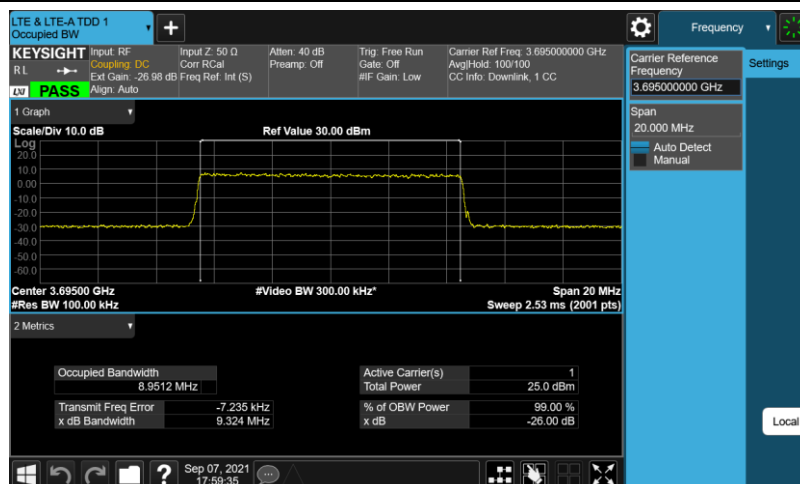
Band48-10MHz-QPSK-55290-E-TM1.1



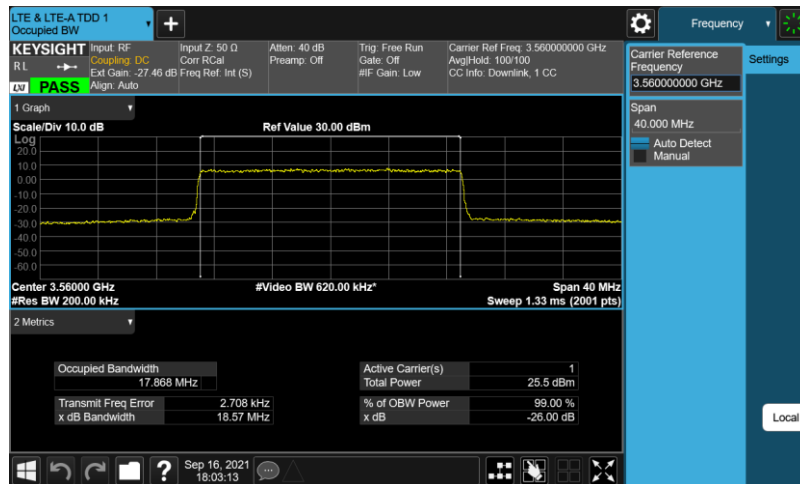
Band48-10MHz-QPSK-55990-E-TM1.1



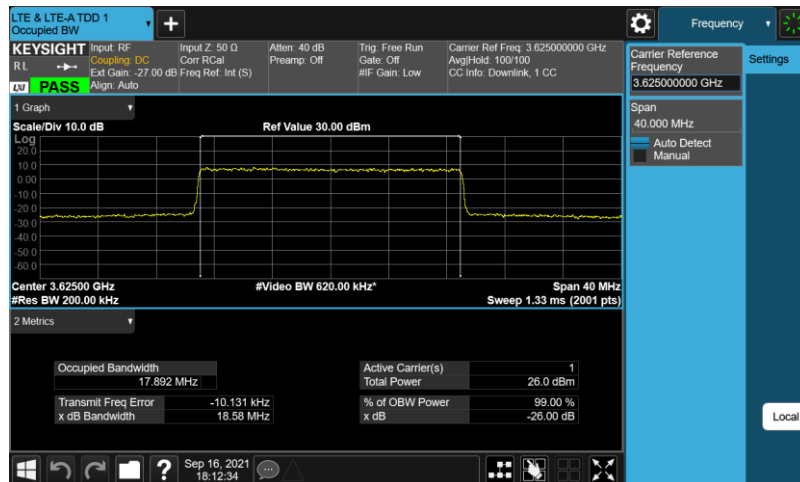
Band48-10MHz-QPSK-56690-E-TM1.1



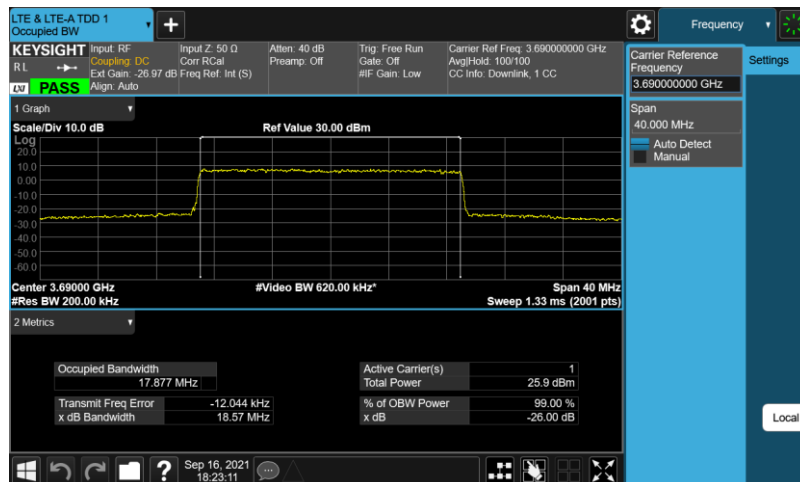
Band48-20MHz-256QAM-55340-E-TM3.1A



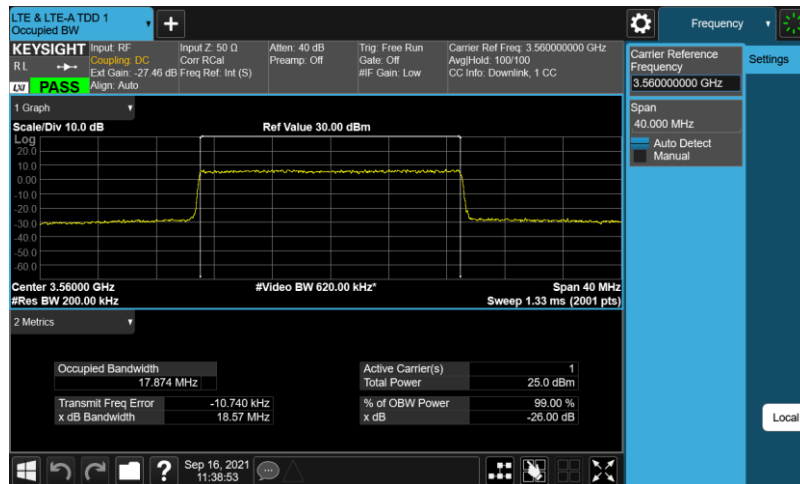
Band48-20MHz-256QAM-55990-E-TM3.1A



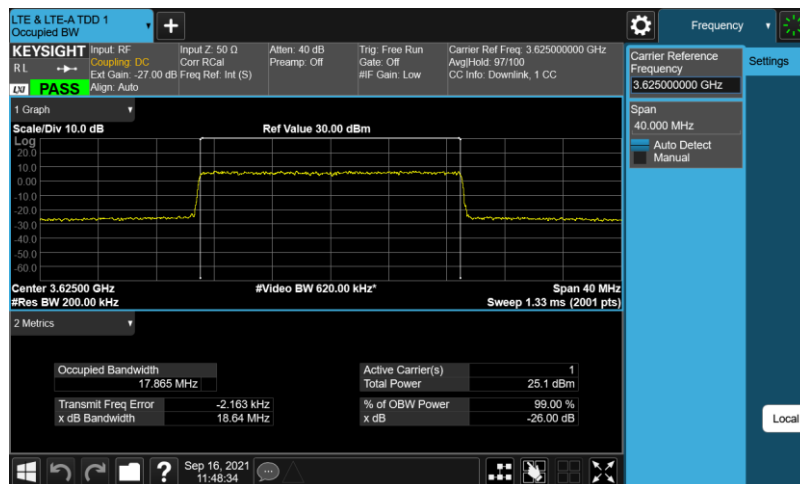
Band48-20MHz-256QAM-56640-E-TM3.1A



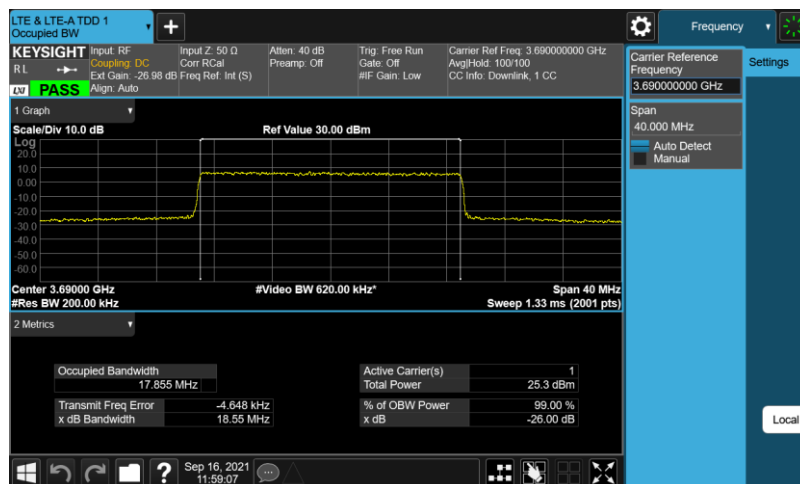
Band48-20MHz-QPSK-55340-E-TM1.1



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	256QAM	55990	E-TM3.1A	102	25	80	0.022	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	25	76	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	138	25	80	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	102	25	77	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	25	74	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	138	25	72	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	102	25	77	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	25	78	0.022	
Band48	20MHz	256QAM	55990	E-TM3.1A	138	25	74	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	102	25	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	25	77	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	138	25	80	0.022	

Temperature measurement									
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-30	54	0.015	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-20	48	0.013	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-10	50	0.014	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	0	48	0.013	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	10	49	0.014	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	20	52	0.014	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	30	54	0.015	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	40	49	0.014	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	50	52	0.014	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-30	55	0.015	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-20	48	0.013	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-10	46	0.013	
Band48	10MHz	QPSK	55990	E-TM1.1	120	0	52	0.014	
Band48	10MHz	QPSK	55990	E-TM1.1	120	10	50	0.014	
Band48	10MHz	QPSK	55990	E-TM1.1	120	20	56	0.015	
Band48	10MHz	QPSK	55990	E-TM1.1	120	30	48	0.013	

Band48	10MHz	QPSK	55990	E-TM1.1	120	40	55	0.015	
Band48	10MHz	QPSK	55990	E-TM1.1	120	50	53	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-30	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-20	55	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-10	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	0	54	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	10	54	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	20	50	0.014	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	30	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	40	55	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	50	54	0.015	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-30	52	0.014	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-20	48	0.013	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-10	47	0.013	
Band48	20MHz	QPSK	55990	E-TM1.1	120	0	47	0.013	
Band48	20MHz	QPSK	55990	E-TM1.1	120	10	55	0.015	
Band48	20MHz	QPSK	55990	E-TM1.1	120	20	52	0.014	
Band48	20MHz	QPSK	55990	E-TM1.1	120	30	52	0.014	
Band48	20MHz	QPSK	55990	E-TM1.1	120	40	48	0.013	
Band48	20MHz	QPSK	55990	E-TM1.1	120	50	53	0.015	

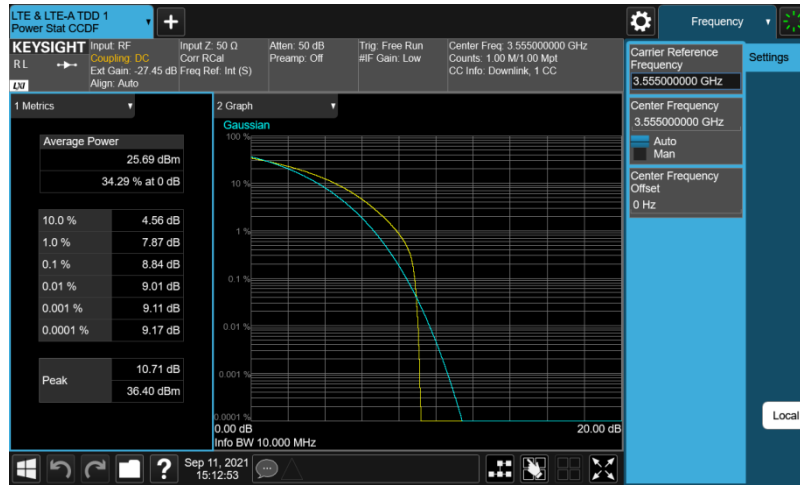
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

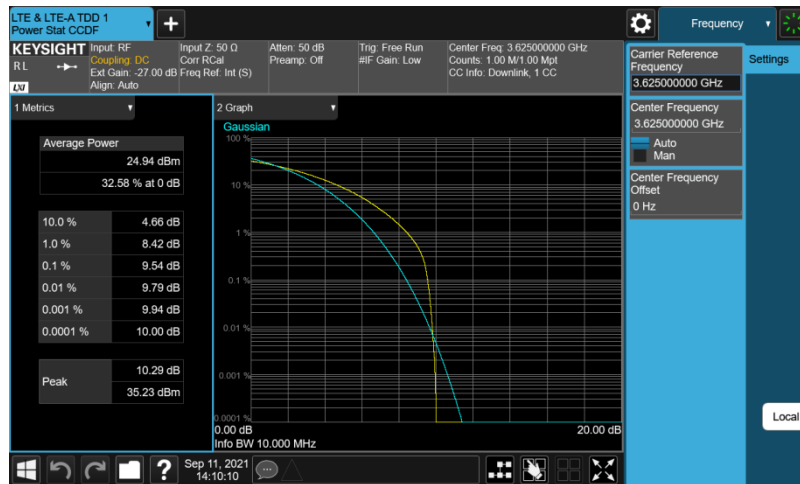
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band48	10MHz	256QAM	55290	E-TM3.1A	8.84
Band48	10MHz	256QAM	55990	E-TM3.1A	9.54
Band48	10MHz	256QAM	56690	E-TM3.1A	9.45
Band48	10MHz	QPSK	55290	E-TM1.1	8.93
Band48	10MHz	QPSK	55990	E-TM1.1	9.07
Band48	10MHz	QPSK	56690	E-TM1.1	9.10
Band48	20MHz	256QAM	55340	E-TM3.1A	9.17
Band48	20MHz	256QAM	55990	E-TM3.1A	9.47
Band48	20MHz	256QAM	56640	E-TM3.1A	8.94
Band48	20MHz	QPSK	55340	E-TM1.1	9.07
Band48	20MHz	QPSK	55990	E-TM1.1	9.22
Band48	20MHz	QPSK	56640	E-TM1.1	9.07

Test Graphs

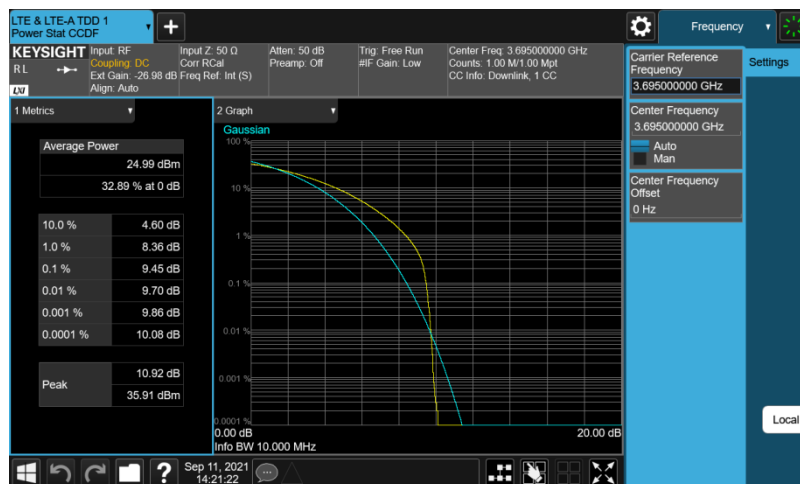
Band48-10MHz-256QAM-55290-E-TM3.1A



Band48-10MHz-256QAM-55990-E-TM3.1A



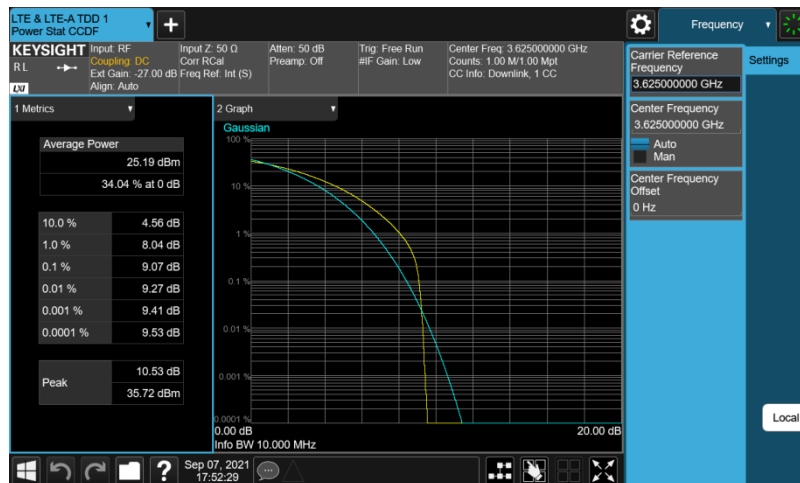
Band48-10MHz-256QAM-56690-E-TM3.1A



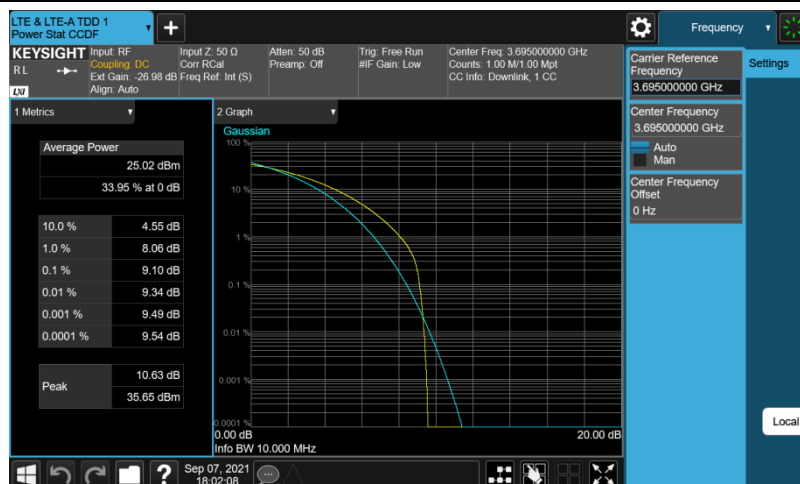
Band48-10MHz-QPSK-55290-E-TM1.1



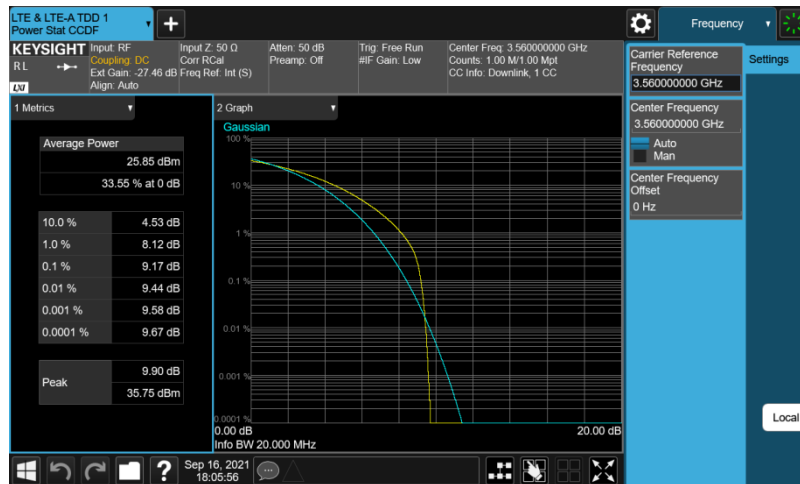
Band48-10MHz-QPSK-55990-E-TM1.1



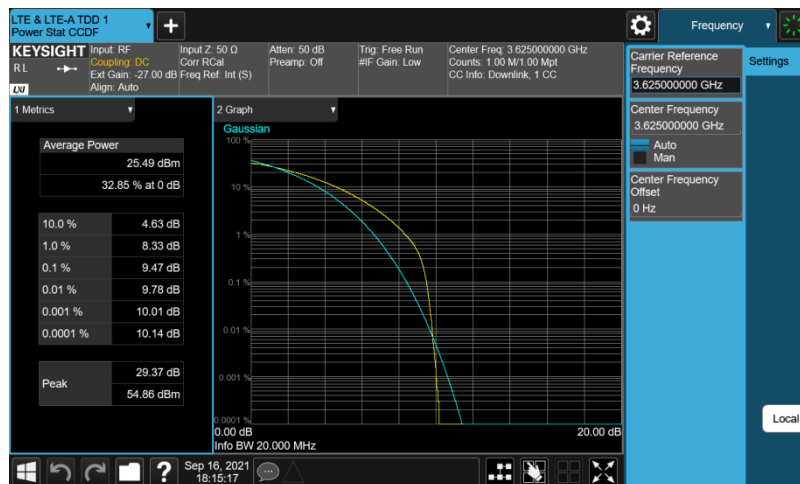
Band48-10MHz-QPSK-56690-E-TM1.1



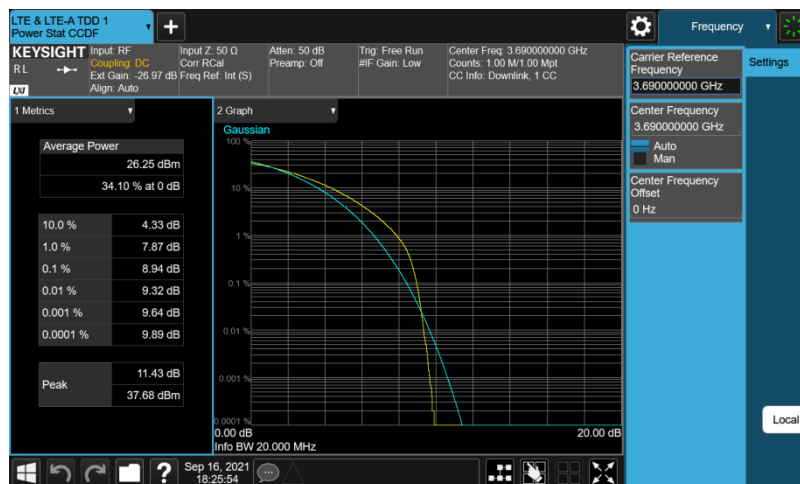
Band48-20MHz-256QAM-55340-E-TM3.1A



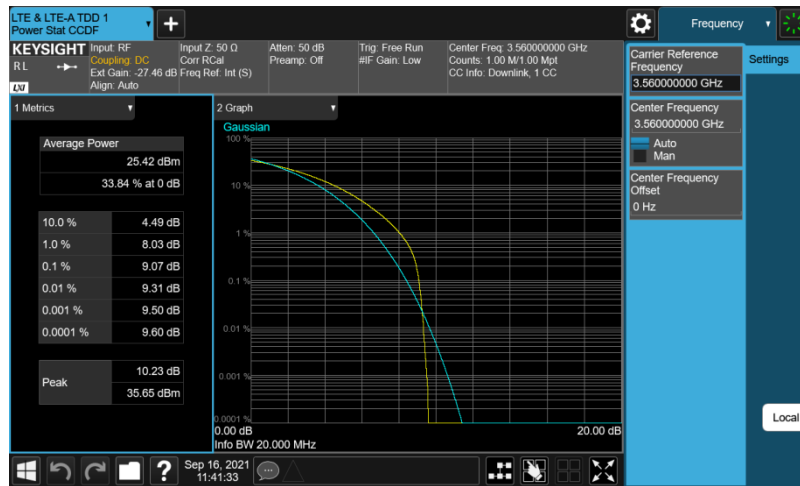
Band48-20MHz-256QAM-55990-E-TM3.1A



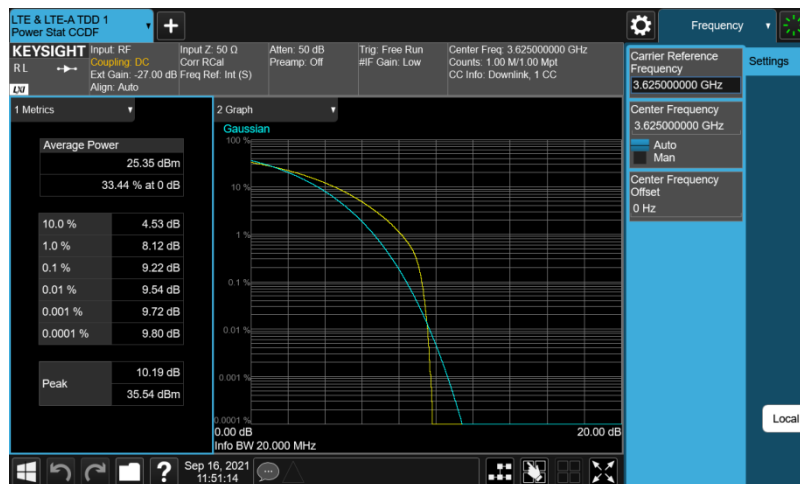
Band48-20MHz-256QAM-56640-E-TM3.1A



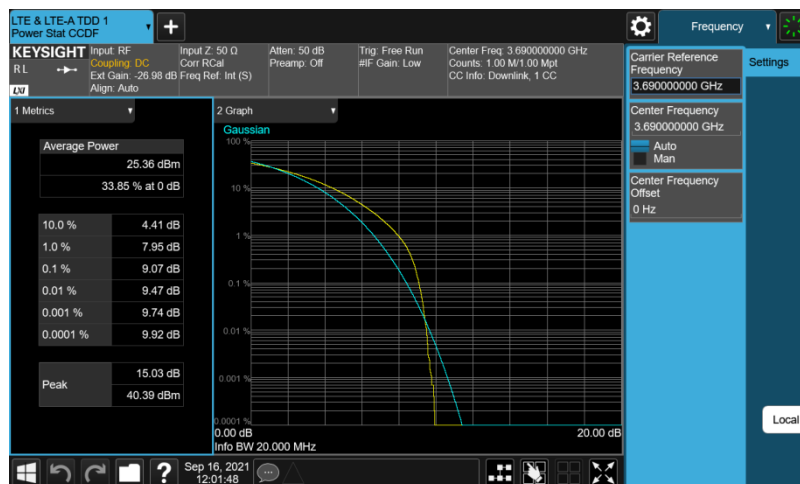
Band48-20MHz-QPSK-55340-E-TM1.1



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



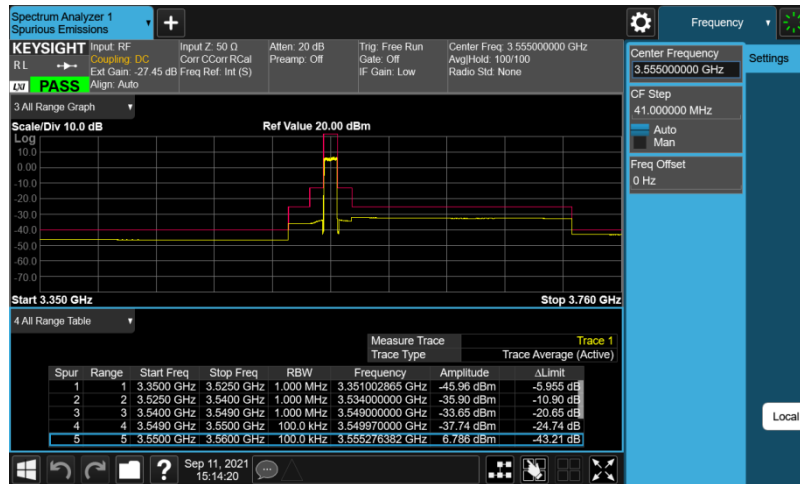
Band48-20MHz-QPSK-56640-E-TM1.1



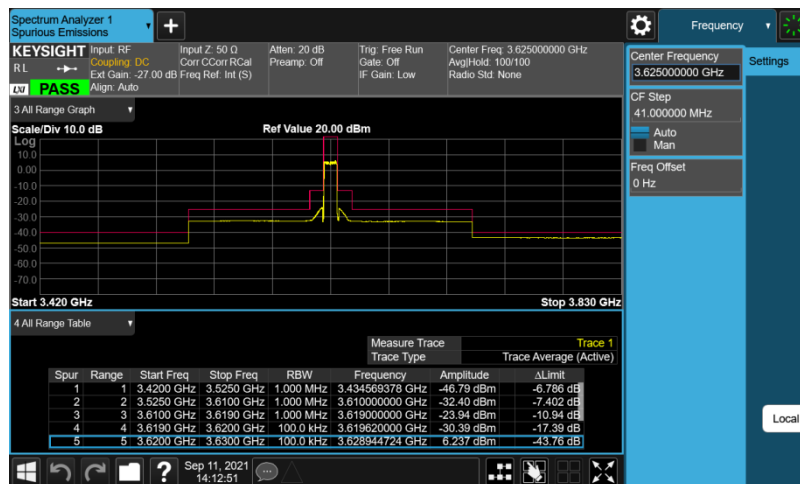
Appendix F: Emission Mask

Test Graphs

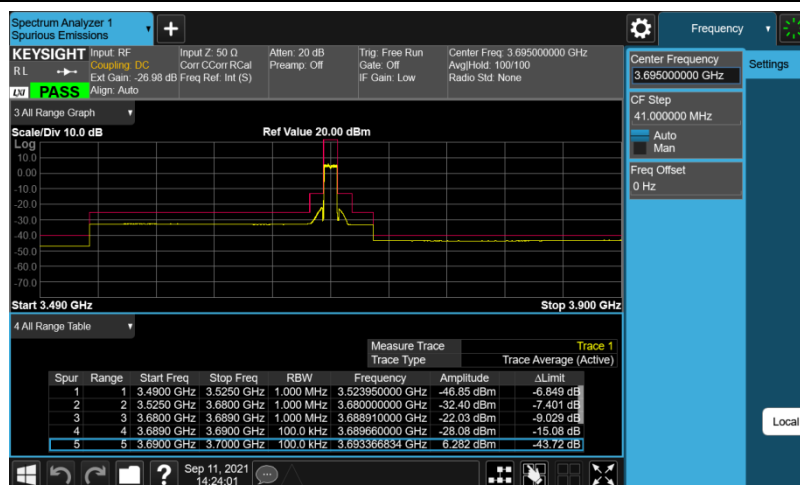
Band48-10MHz-256QAM-55290-E-TM3.1A



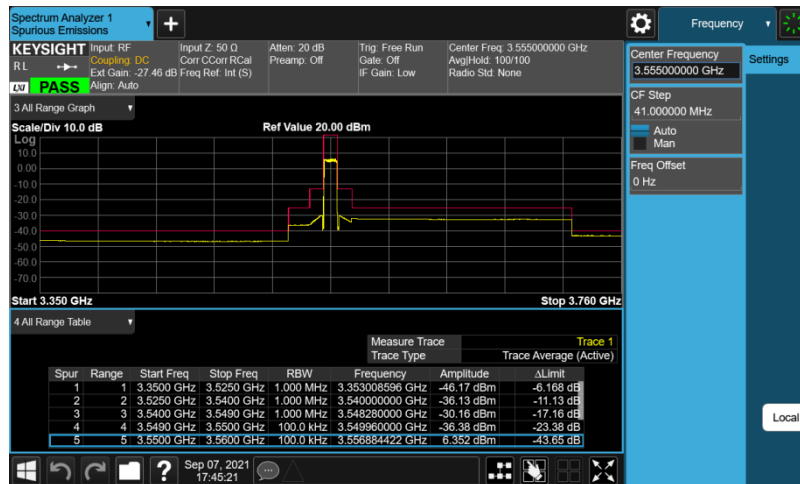
Band48-10MHz-256QAM-55990-E-TM3.1A



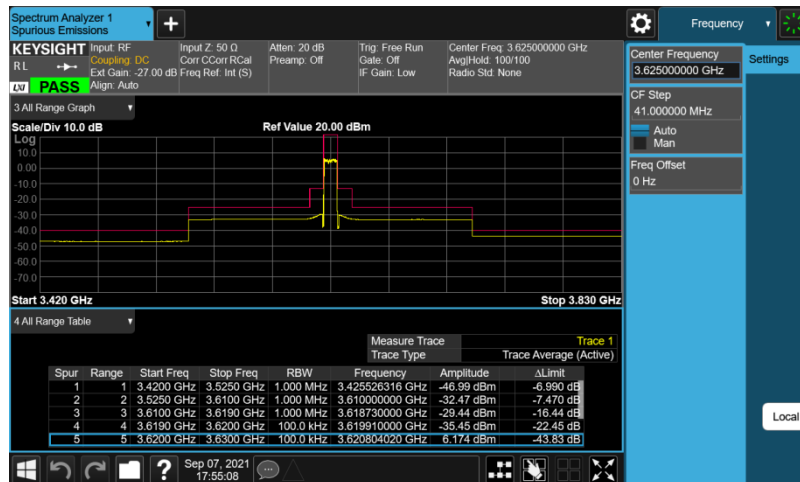
Band48-10MHz-256QAM-56690-E-TM3.1A



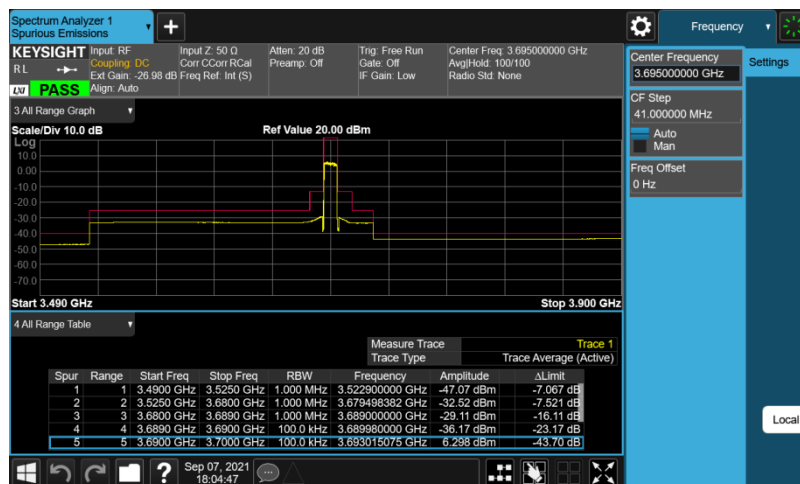
Band48-10MHz-QPSK-55290-E-TM1.1



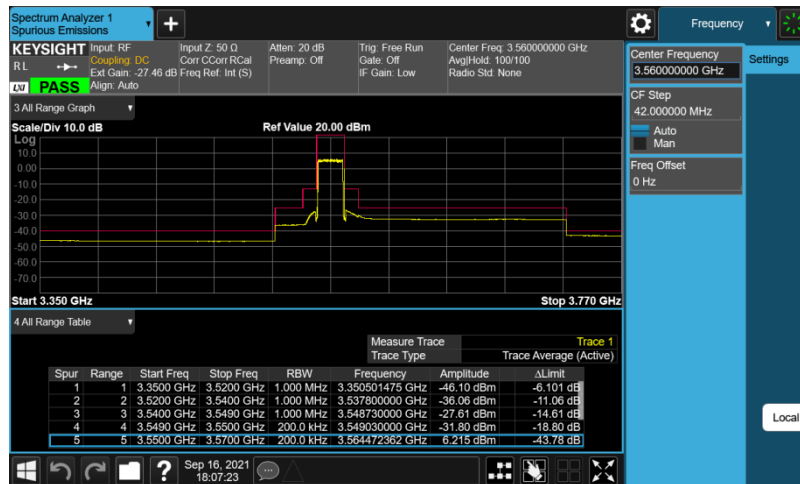
Band48-10MHz-QPSK-55990-E-TM1.1



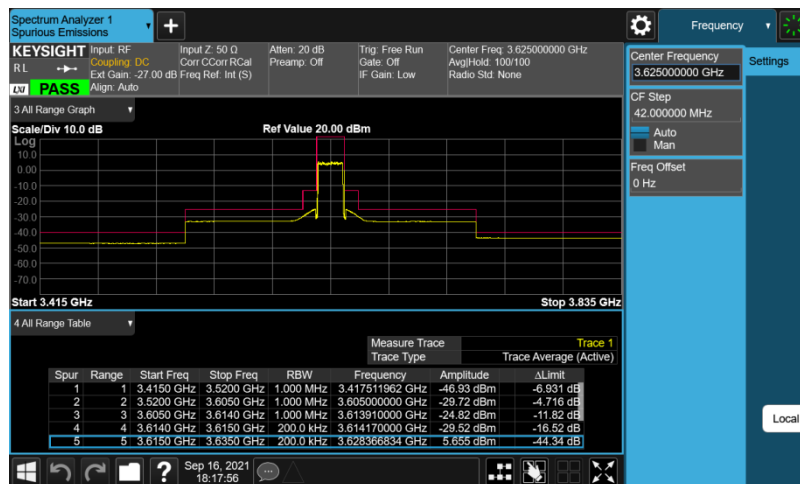
Band48-10MHz-QPSK-56690-E-TM1.1



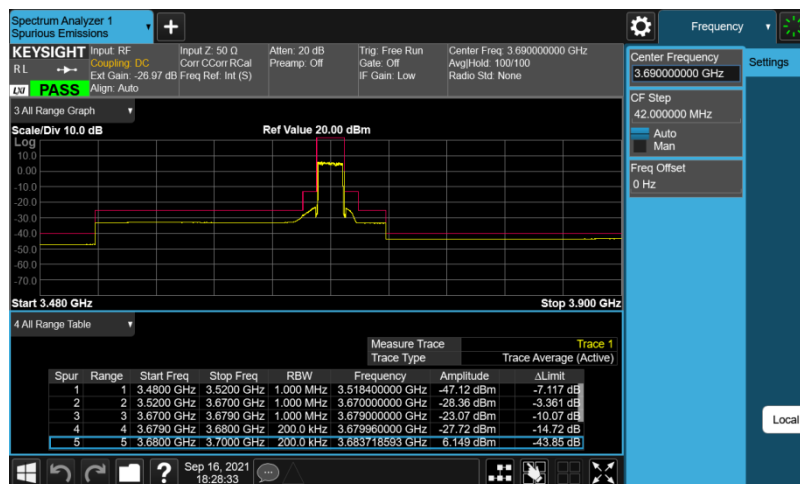
Band48-20MHz-256QAM-55340-E-TM3.1A



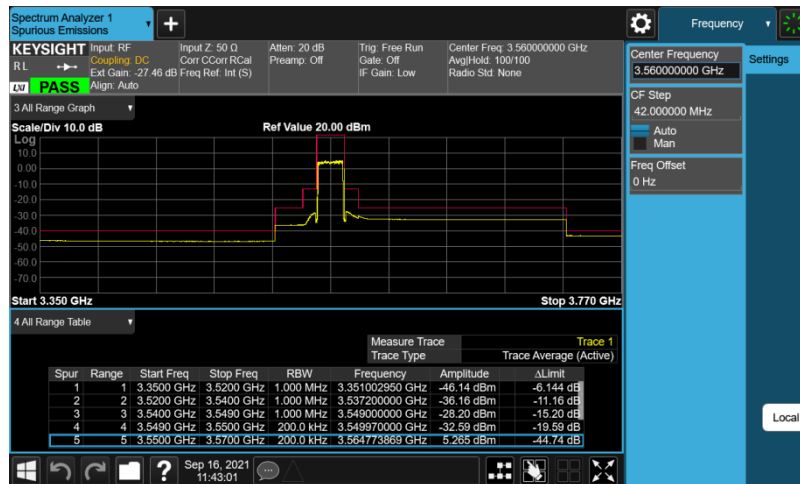
Band48-20MHz-256QAM-55990-E-TM3.1A



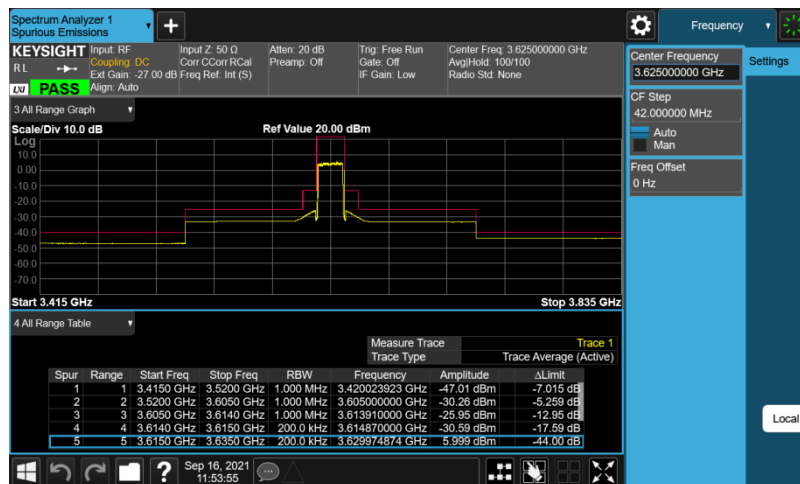
Band48-20MHz-256QAM-56640-E-TM3.1A



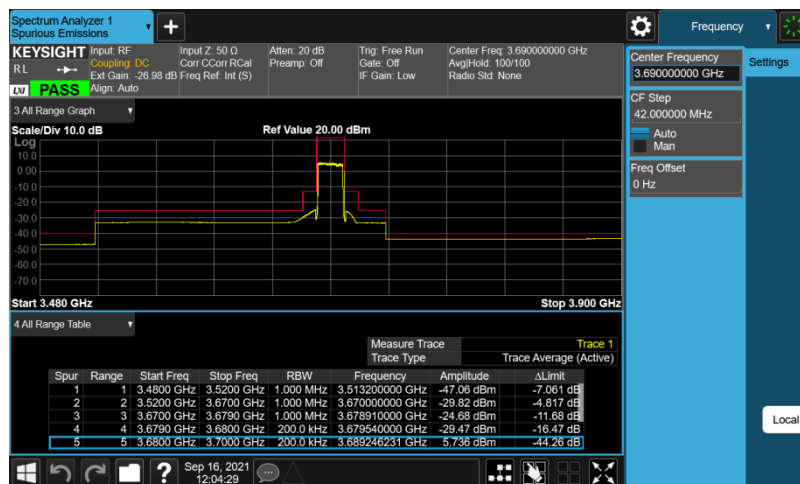
Band48-20MHz-QPSK-55340-E-TM1.1



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	256QAM	55290	E-TM3.1A	30-3530	-53.49	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	3720-6000	-52.71	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	6000-40000	-53.39	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	30-3530	-53.90	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	3720-6000	-52.82	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.37	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	30-3530	-54.12	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	3720-6000	-52.46	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	6000-40000	-53.21	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	30-3530	-53.75	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	3720-6000	-53.18	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	6000-40000	-53.51	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	30-3530	-54.35	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	3720-6000	-52.79	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	6000-40000	-53.59	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	30-3530	-54.46	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	3720-6000	-53.18	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	6000-40000	-53.58	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	30-3530	-53.88	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	3720-6000	-53.03	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	6000-40000	-53.52	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	30-3530	-54.21	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	3720-6000	-53.05	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.44	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	30-3530	-54.24	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	3720-6000	-53.02	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	6000-40000	-53.71	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	30-3530	-53.67	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	3720-6000	-53.20	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	6000-40000	-53.65	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	30-3530	-54.12	PASS

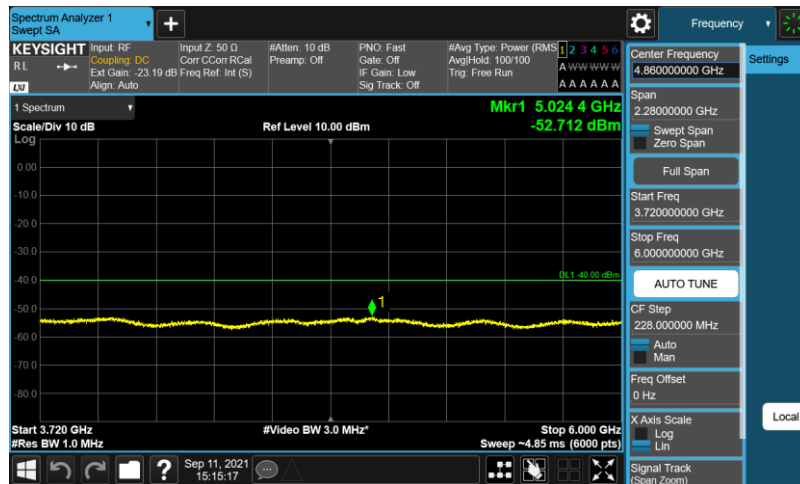
Band48	20MHz	QPSK	55990	E-TM1.1	3720-6000	-52.84	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	6000-40000	-53.79	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	30-3530	-54.29	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	3720-6000	-52.81	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	6000-40000	-53.39	PASS

Test Graphs

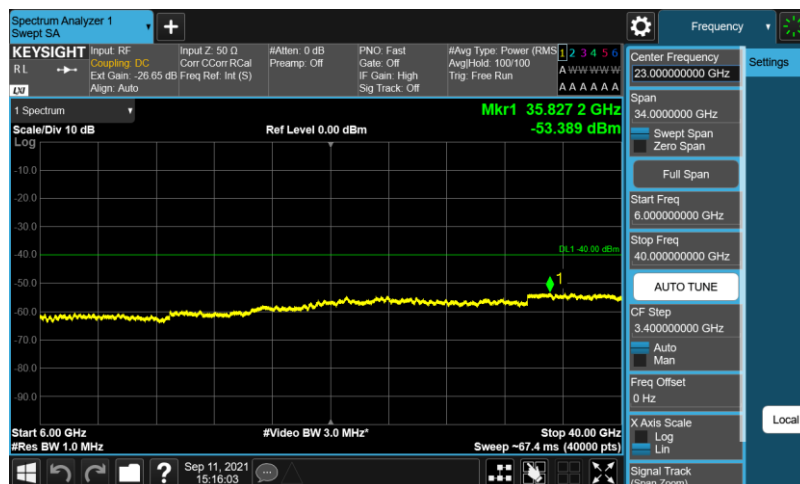
Band48-10MHz-256QAM-55290-E-TM3.1A-30-3530



Band48-10MHz-256QAM-55290-E-TM3.1A-3720-6000



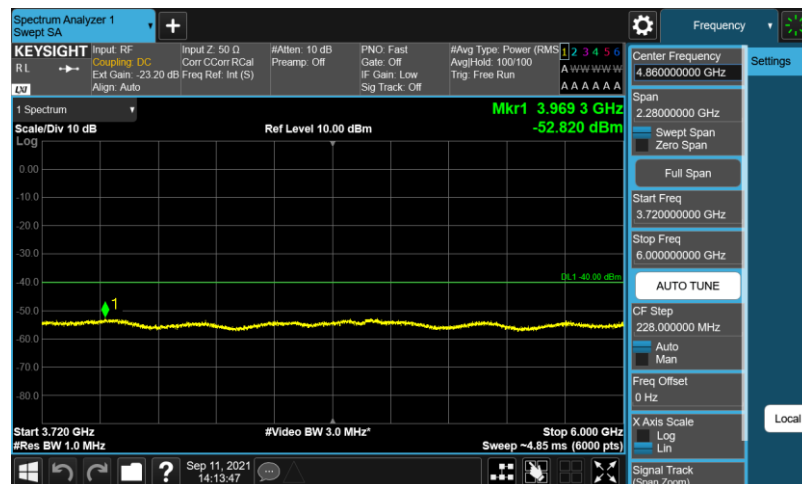
Band48-10MHz-256QAM-55290-E-TM3.1A-6000-40000



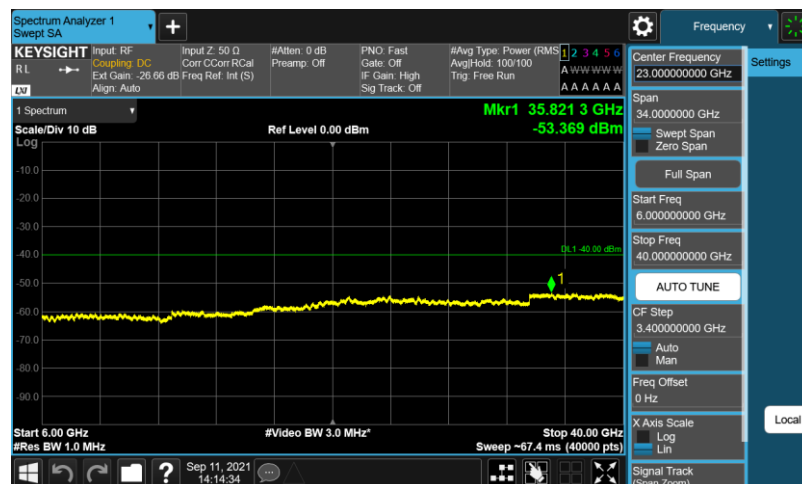
Band48-10MHz-256QAM-55990-E-TM3.1A-30-3530



Band48-10MHz-256QAM-55990-E-TM3.1A-3720-6000



Band48-10MHz-256QAM-55990-E-TM3.1A-6000-40000



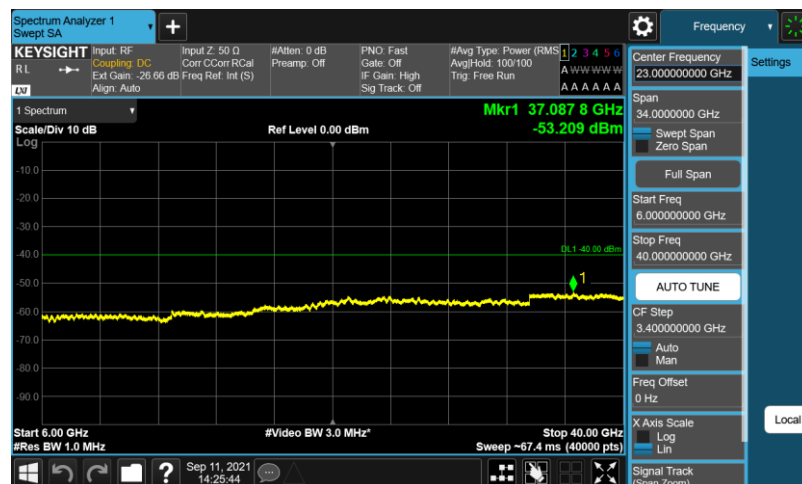
Band48-10MHz-256QAM-56690-E-TM3.1A-30-3530



Band48-10MHz-256QAM-56690-E-TM3.1A-3720-6000



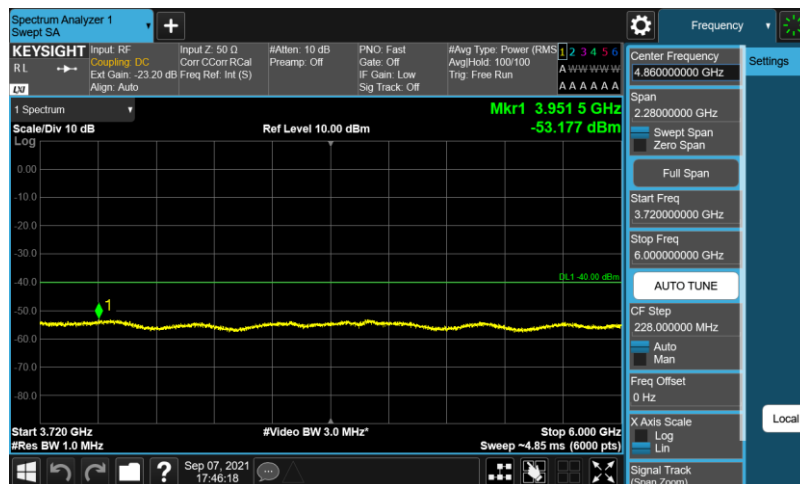
Band48-10MHz-256QAM-56690-E-TM3.1A-6000-40000



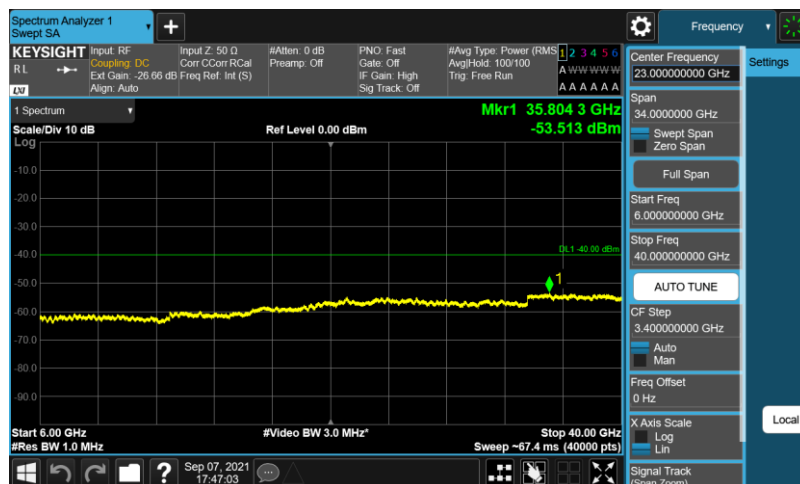
Band48-10MHz-QPSK-55290-E-TM1.1-30-3530



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



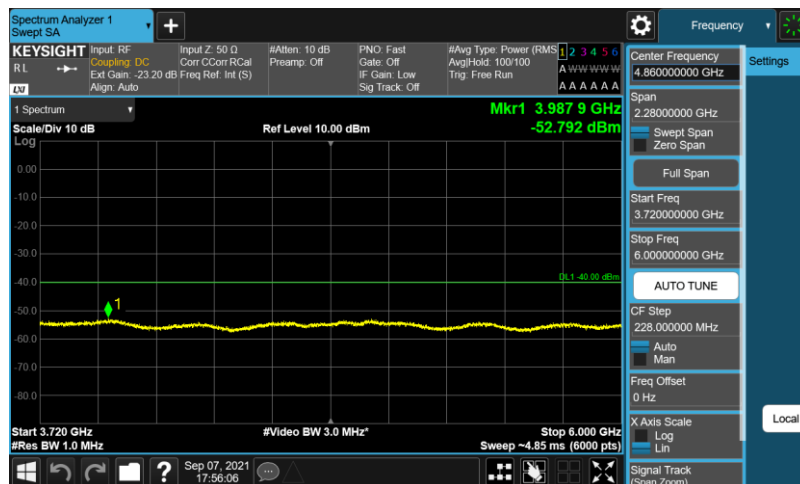
Band48-10MHz-QPSK-55290-E-TM1.1-6000-40000



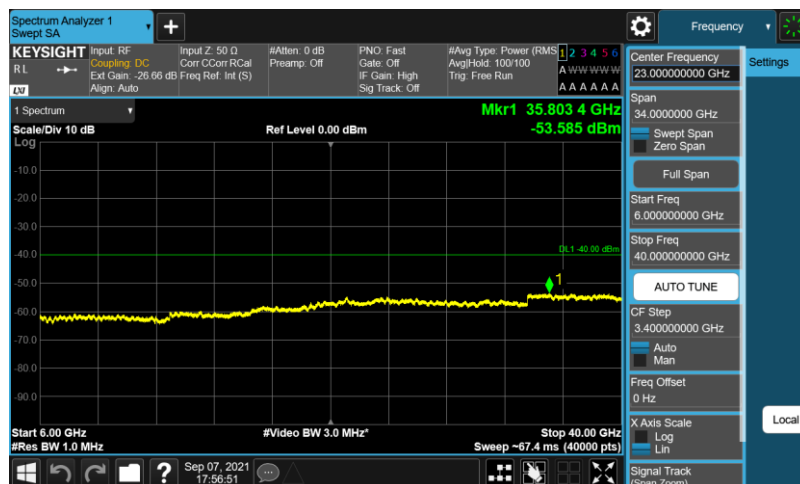
Band48-10MHz-QPSK-55990-E-TM1.1-30-3530



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



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



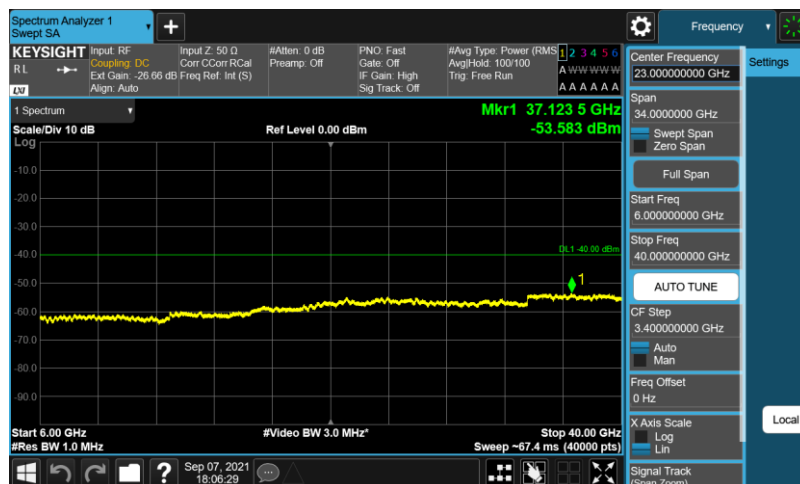
Band48-10MHz-QPSK-56690-E-TM1.1-30-3530



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



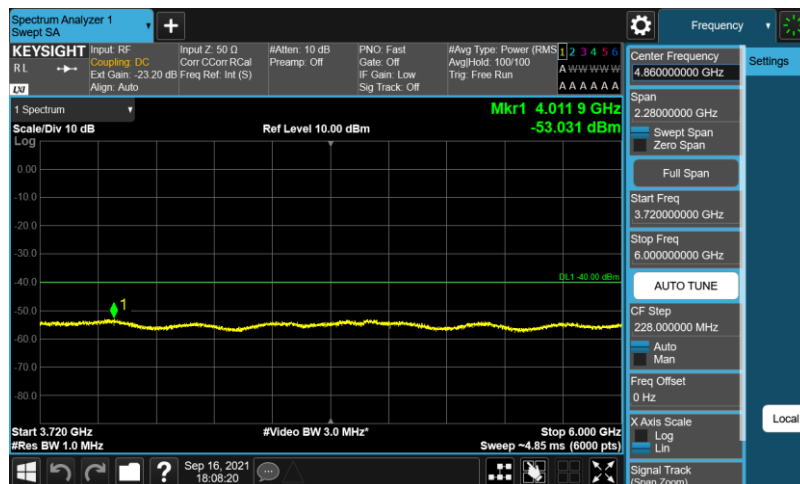
Band48-10MHz-QPSK-56690-E-TM1.1-6000-40000



Band48-20MHz-256QAM-55340-E-TM3.1A-30-3530



Band48-20MHz-256QAM-55340-E-TM3.1A-3720-6000



Band48-20MHz-256QAM-55340-E-TM3.1A-6000-40000

