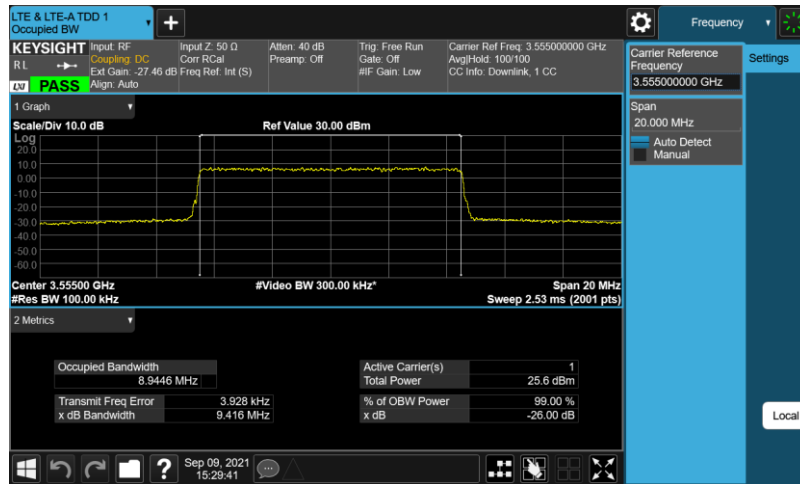
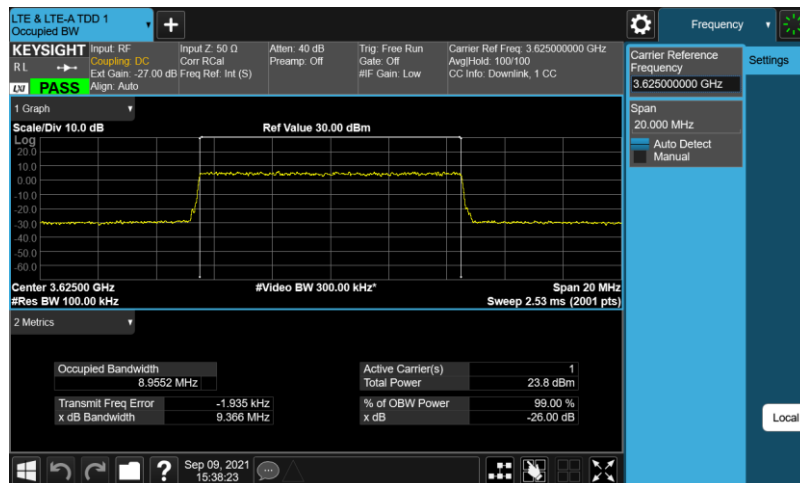


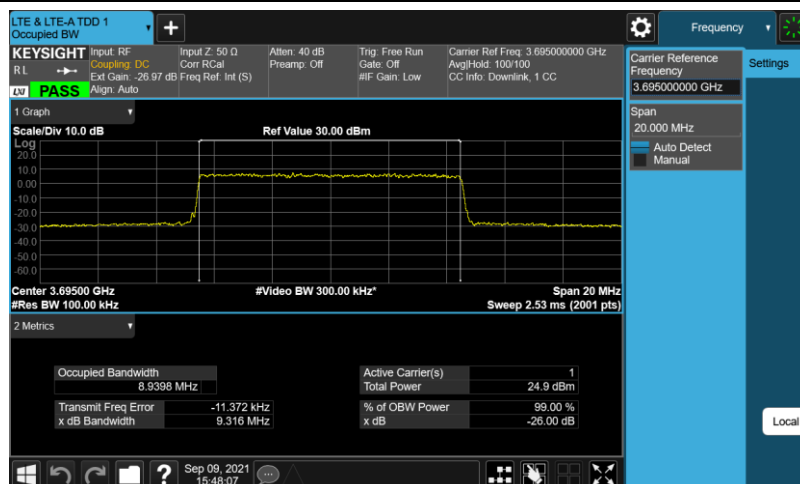
Band48-10MHz-QPSK-55290-E-TM1.1



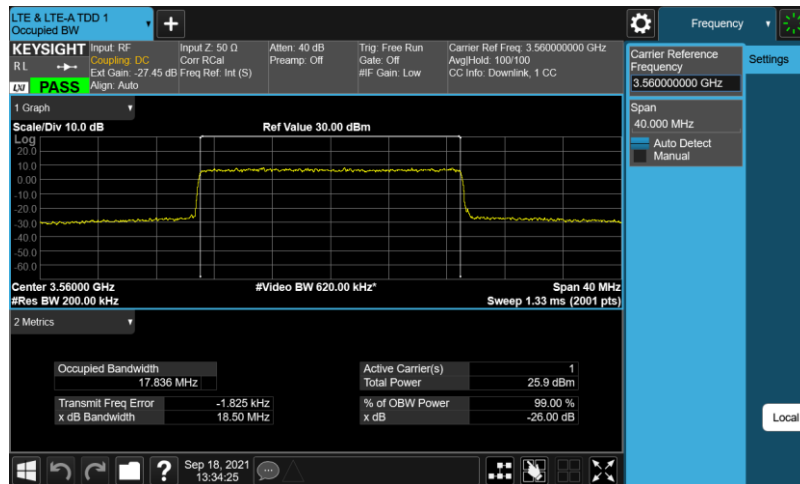
Band48-10MHz-QPSK-55990-E-TM1.1



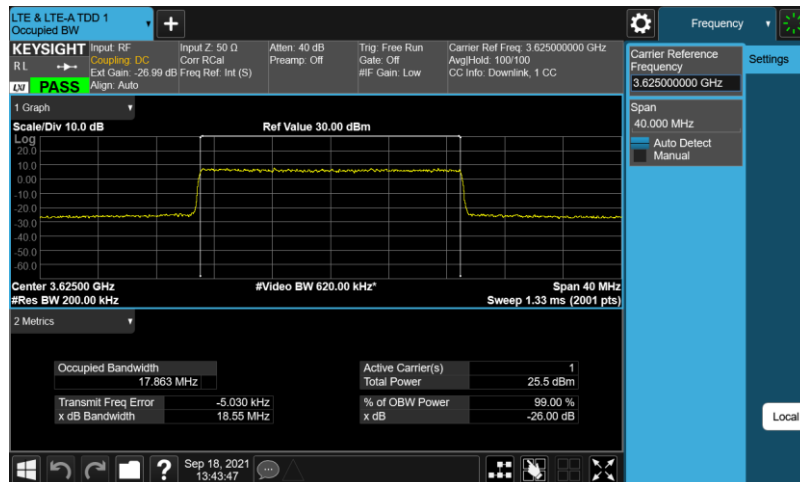
Band48-10MHz-QPSK-56690-E-TM1.1



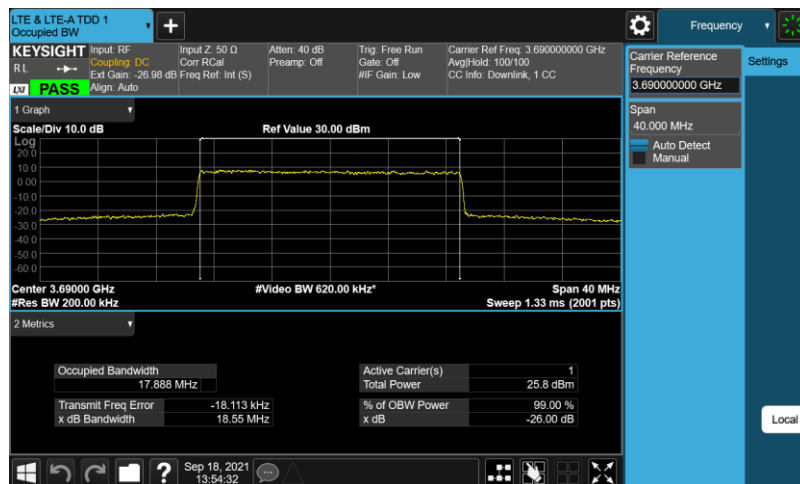
Band48-20MHz-256QAM-55340-E-TM3.1A



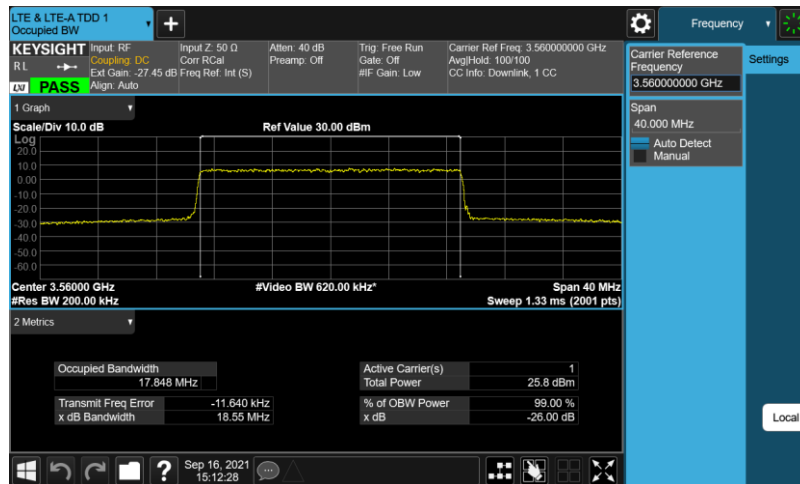
Band48-20MHz-256QAM-55990-E-TM3.1A



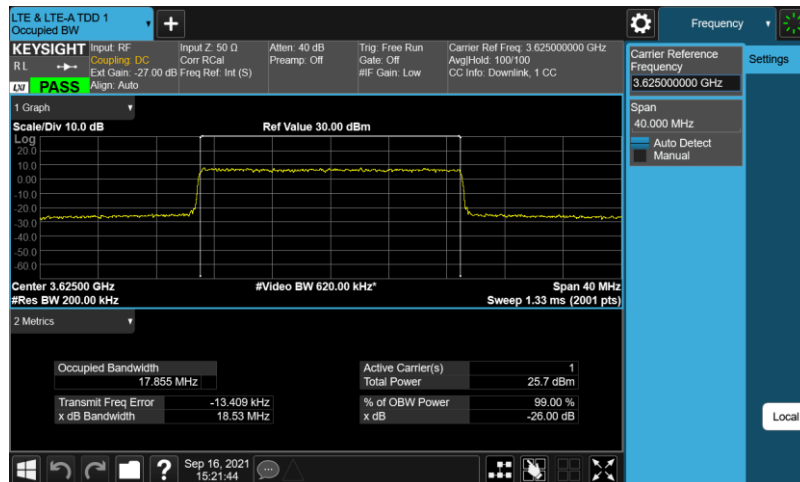
Band48-20MHz-256QAM-56640-E-TM3.1A



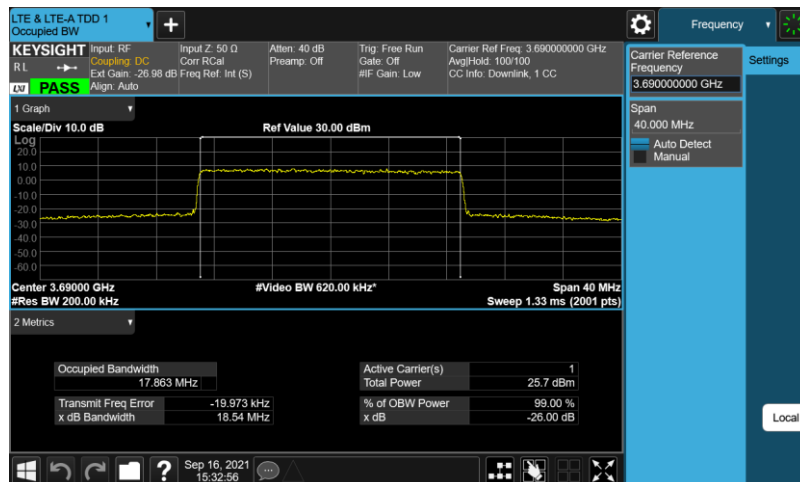
Band48-20MHz-QPSK-55340-E-TM1.1



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	58	0.016	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	25	60	0.017	
Band48	10MHz	256QAM	55990	E-TM3.1A	138	25	55	0.015	
Band48	10MHz	QPSK	55990	E-TM1.1	102	25	58	0.016	
Band48	10MHz	QPSK	55990	E-TM1.1	120	25	61	0.017	
Band48	10MHz	QPSK	55990	E-TM1.1	138	25	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	102	25	62	0.017	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	25	64	0.018	
Band48	20MHz	256QAM	55990	E-TM3.1A	138	25	60	0.017	
Band48	20MHz	QPSK	55990	E-TM1.1	102	25	55	0.015	
Band48	20MHz	QPSK	55990	E-TM1.1	120	25	58	0.016	
Band48	20MHz	QPSK	55990	E-TM1.1	138	25	56	0.015	

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	77	0.021	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-20	78	0.022	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-10	80	0.022	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	0	76	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	10	76	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	20	80	0.022	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	30	76	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	40	75	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	50	78	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-30	68	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-20	70	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-10	72	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	0	76	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	10	68	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	20	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	30	72	0.020	

Band48	10MHz	QPSK	55990	E-TM1.1	120	40	76	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	50	75	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-30	66	0.018	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-20	64	0.018	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-10	68	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	0	68	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	10	70	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	20	72	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	30	66	0.018	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	40	69	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	50	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-30	72	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-20	68	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-10	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	0	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	10	71	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	20	69	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	30	66	0.018	
Band48	20MHz	QPSK	55990	E-TM1.1	120	40	68	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	50	66	0.018	

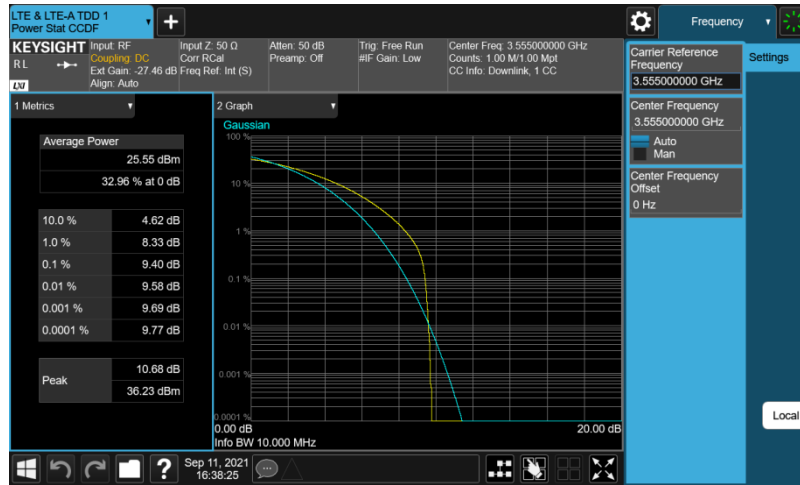
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

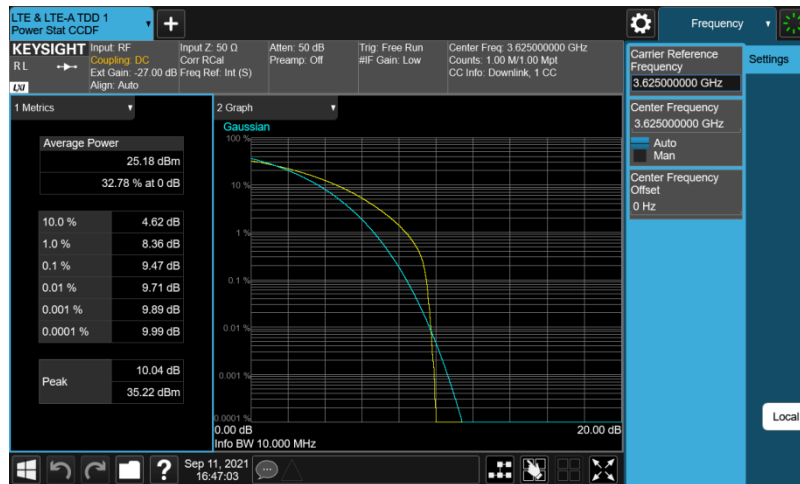
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band48	10MHz	256QAM	55290	E-TM3.1A	9.40
Band48	10MHz	256QAM	55990	E-TM3.1A	9.47
Band48	10MHz	256QAM	56690	E-TM3.1A	9.43
Band48	10MHz	QPSK	55290	E-TM1.1	9.29
Band48	10MHz	QPSK	55990	E-TM1.1	9.12
Band48	10MHz	QPSK	56690	E-TM1.1	9.41
Band48	20MHz	256QAM	55340	E-TM3.1A	9.16
Band48	20MHz	256QAM	55990	E-TM3.1A	9.47
Band48	20MHz	256QAM	56640	E-TM3.1A	9.47
Band48	20MHz	QPSK	55340	E-TM1.1	9.02
Band48	20MHz	QPSK	55990	E-TM1.1	10.15
Band48	20MHz	QPSK	56640	E-TM1.1	9.21

Test Graphs

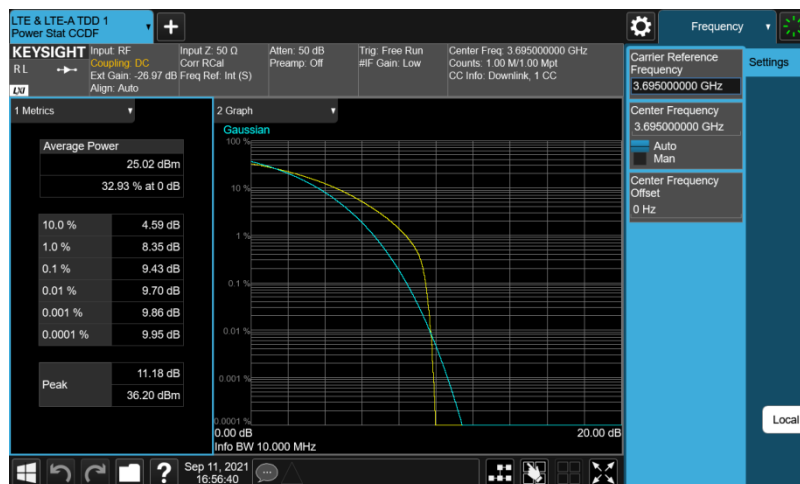
Band48-10MHz-256QAM-55290-E-TM3.1A



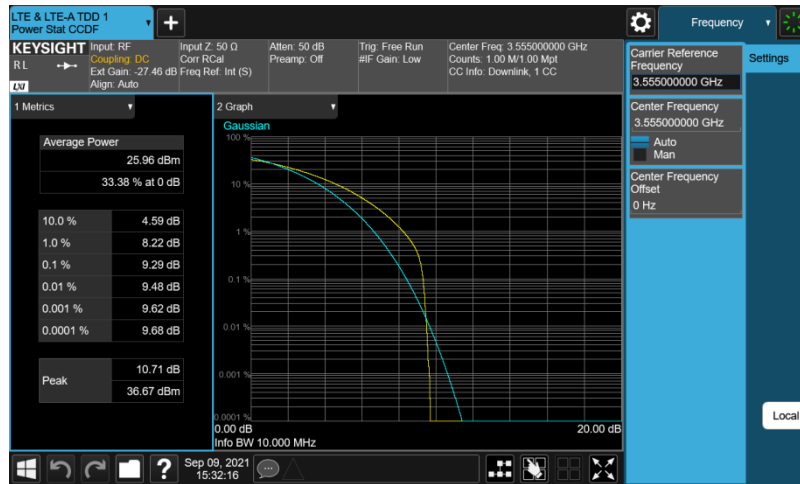
Band48-10MHz-256QAM-55990-E-TM3.1A



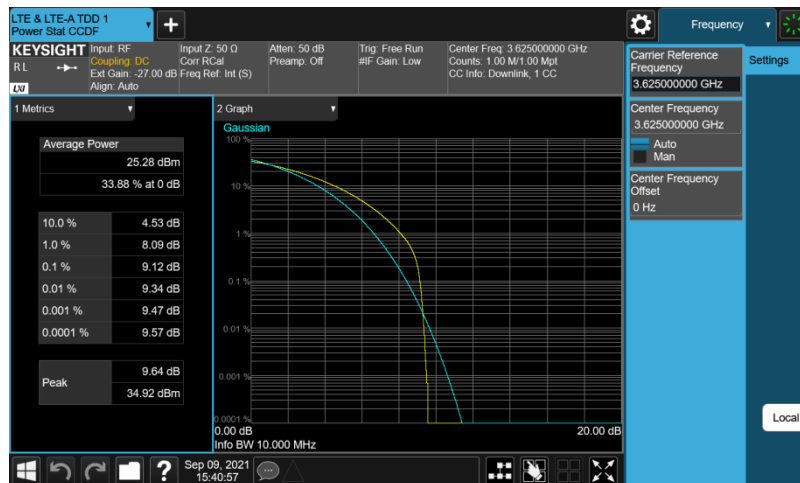
Band48-10MHz-256QAM-56690-E-TM3.1A



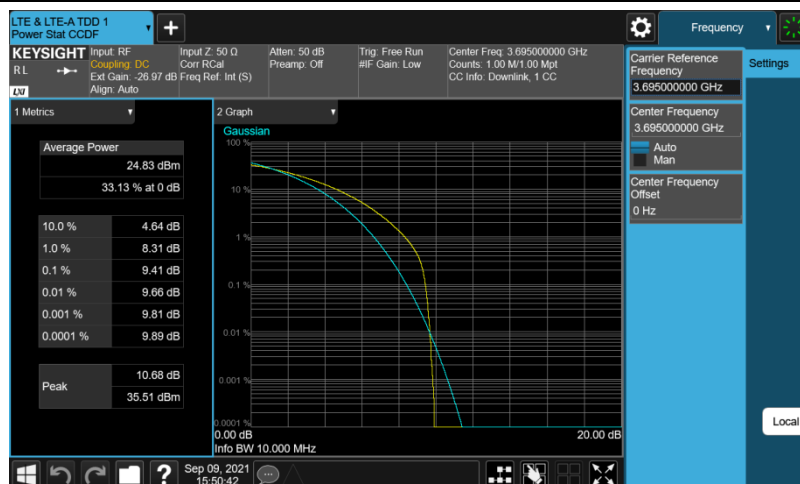
Band48-10MHz-QPSK-55290-E-TM1.1



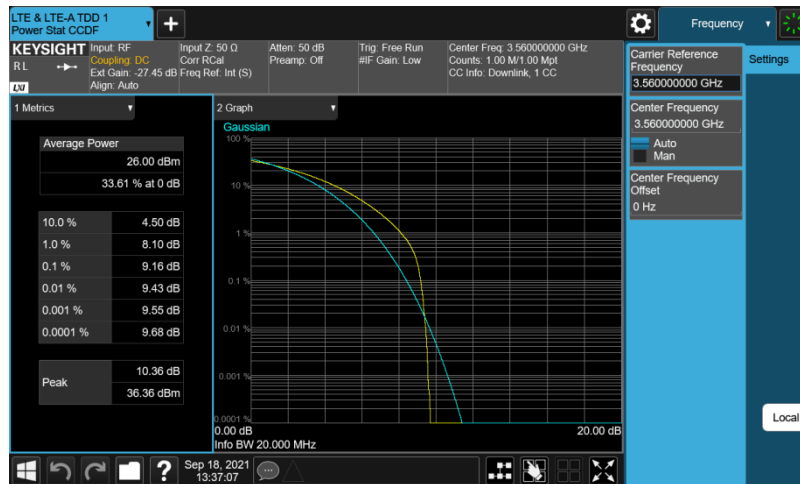
Band48-10MHz-QPSK-55990-E-TM1.1



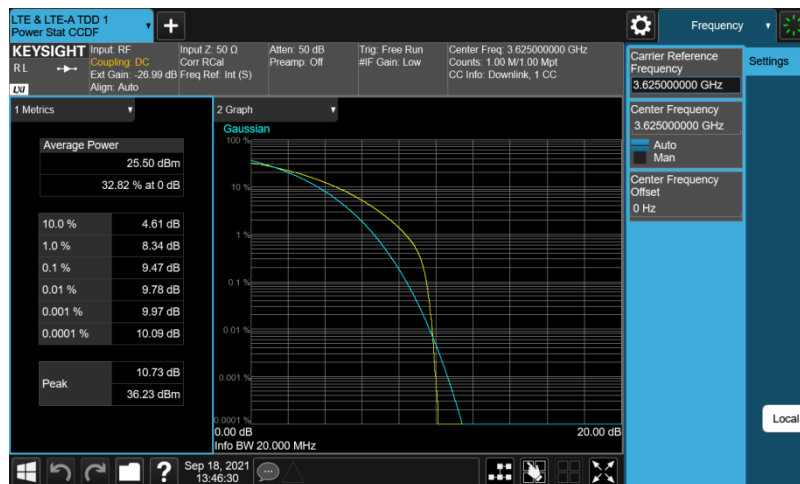
Band48-10MHz-QPSK-56690-E-TM1.1



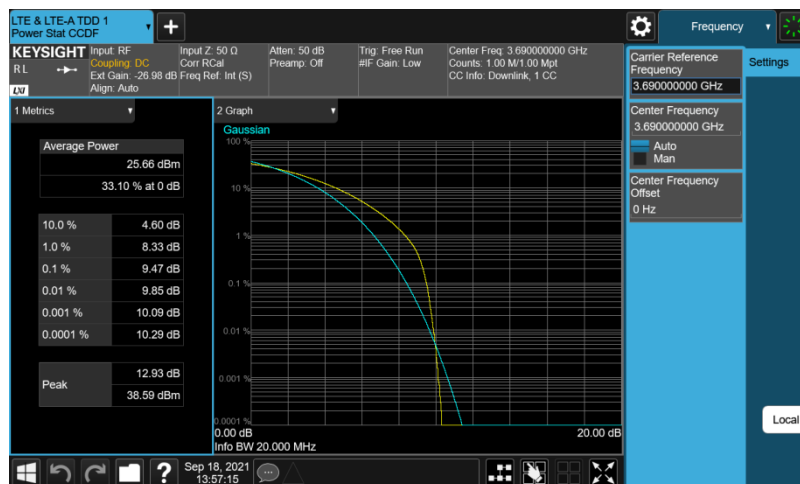
Band48-20MHz-256QAM-55340-E-TM3.1A



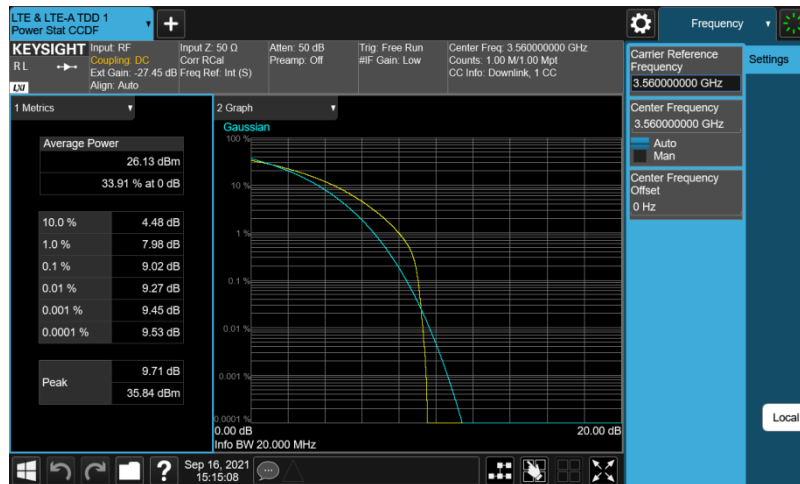
Band48-20MHz-256QAM-55990-E-TM3.1A



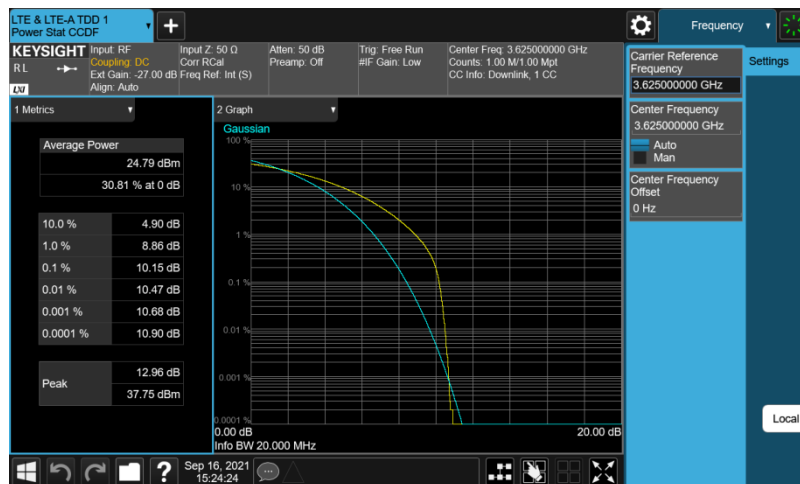
Band48-20MHz-256QAM-56640-E-TM3.1A



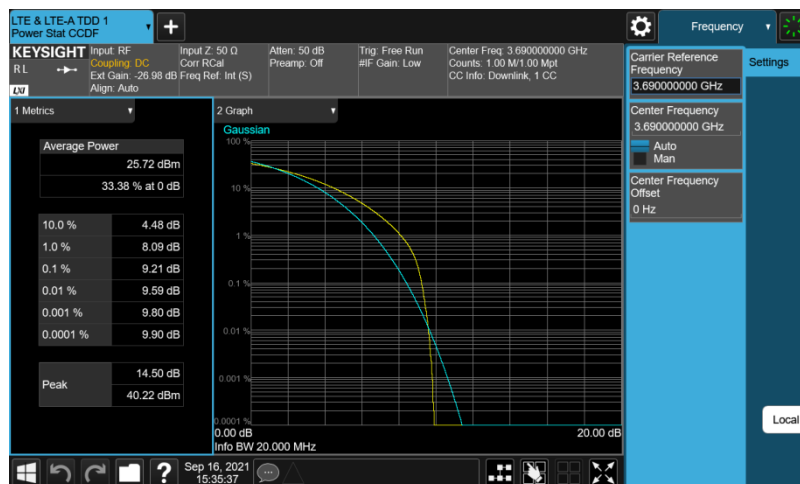
Band48-20MHz-QPSK-55340-E-TM1.1



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



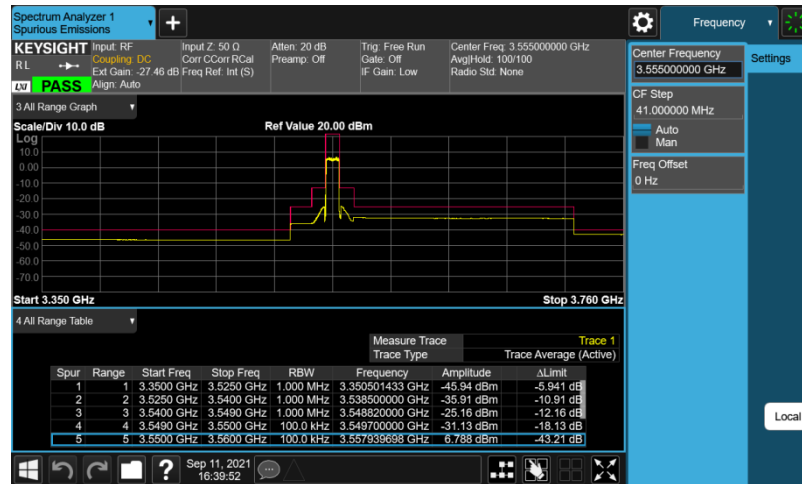
Band48-20MHz-QPSK-56640-E-TM1.1



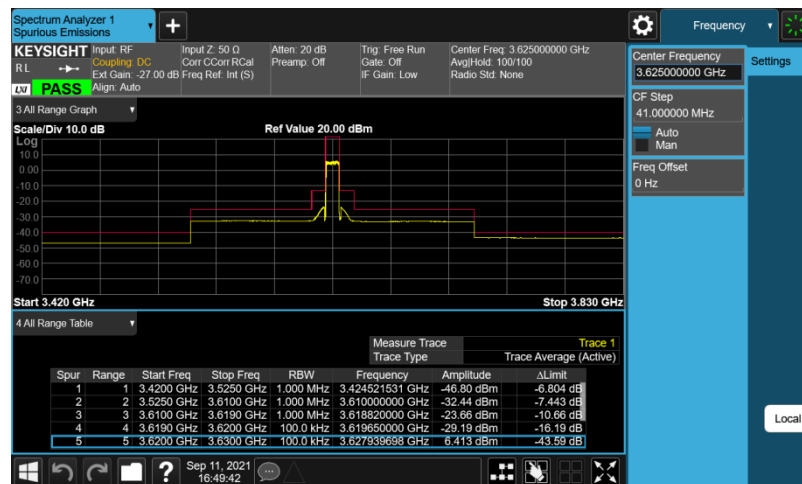
Appendix F: Emission Mask

Test Graphs

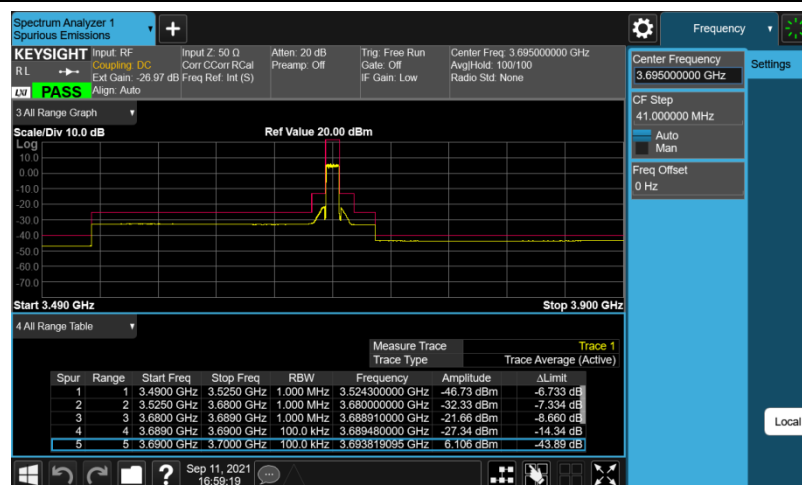
Band48-10MHz-256QAM-55290-E-TM3.1A



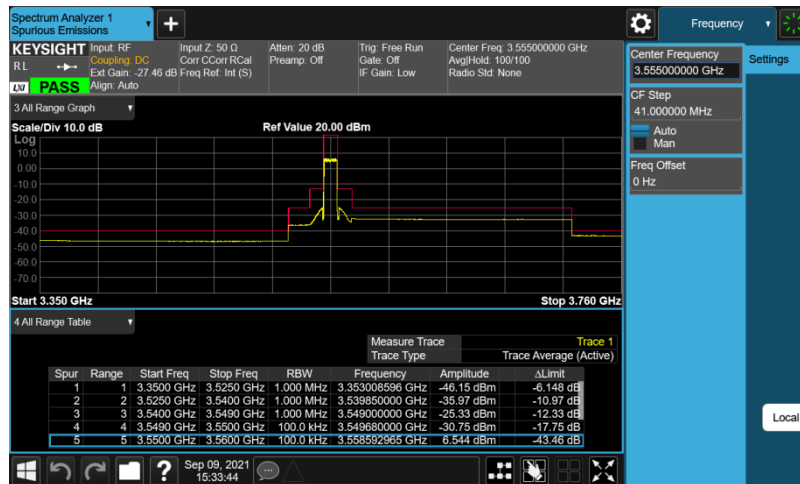
Band48-10MHz-256QAM-55990-E-TM3.1A



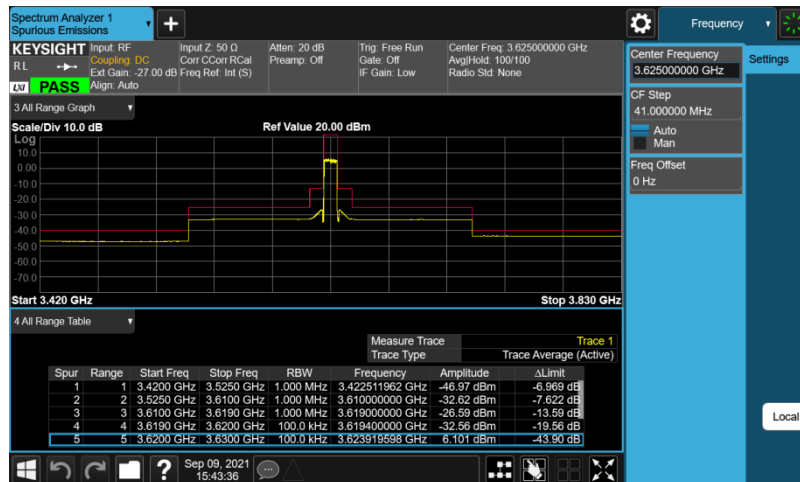
Band48-10MHz-256QAM-56690-E-TM3.1A



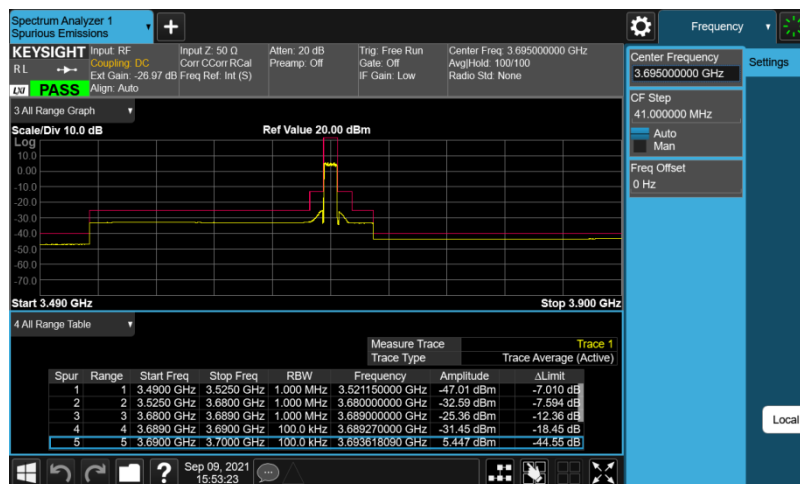
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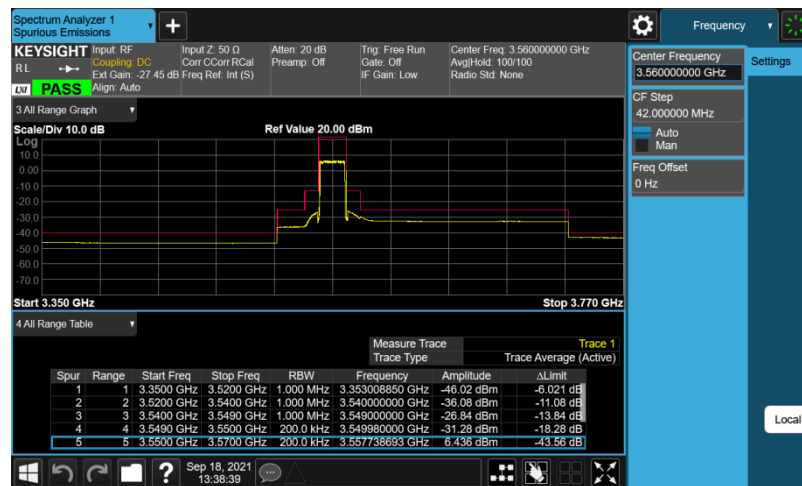
Band48-10MHz-QPSK-55990-E-TM1.1



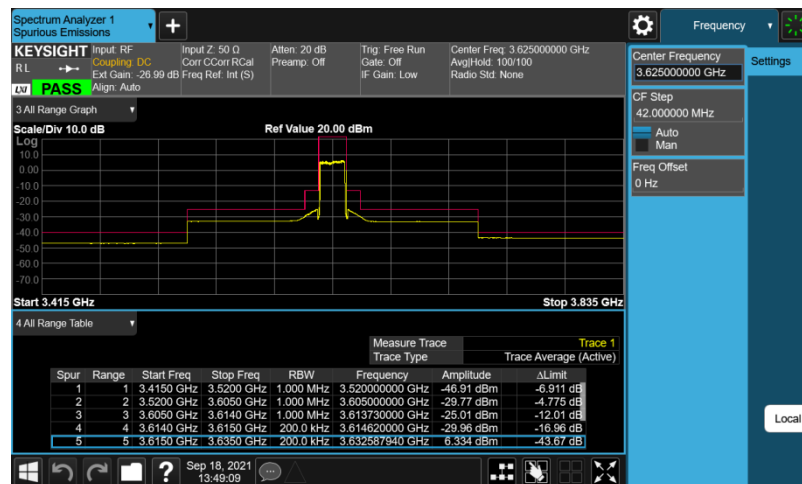
Band48-10MHz-QPSK-56690-E-TM1.1



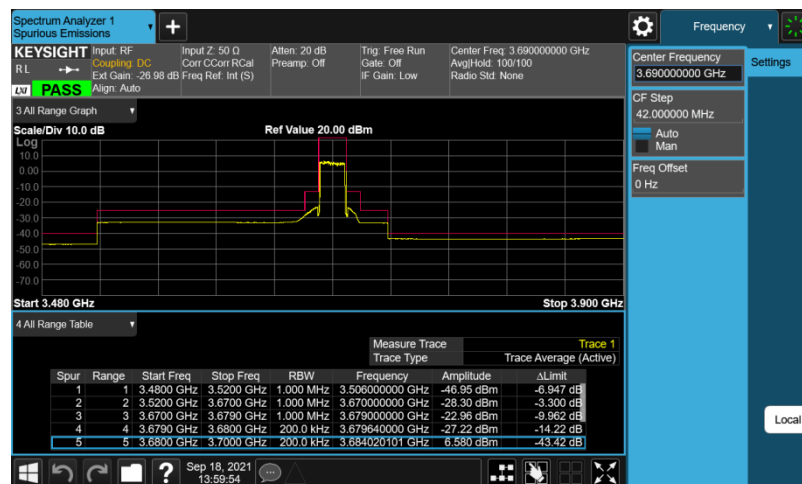
Band48-20MHz-256QAM-55340-E-TM3.1A



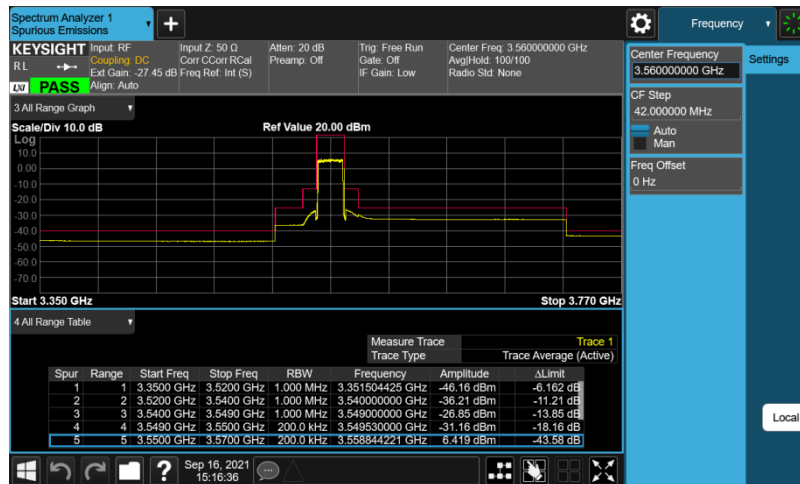
Band48-20MHz-256QAM-55990-E-TM3.1A



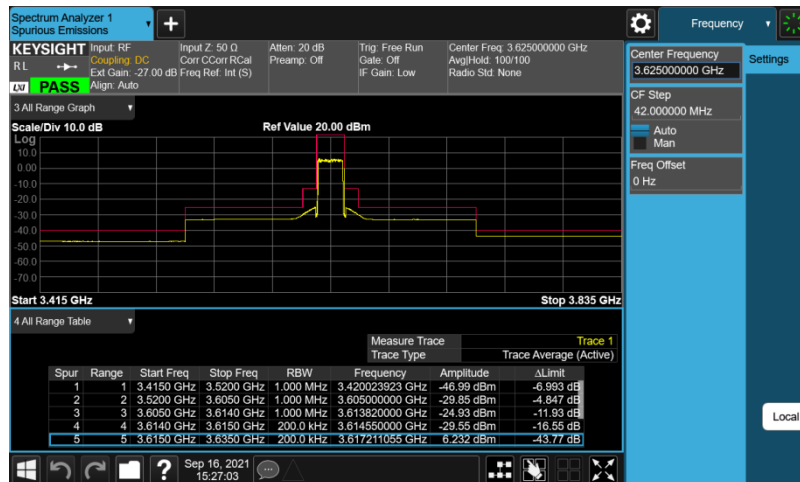
Band48-20MHz-256QAM-56640-E-TM3.1A



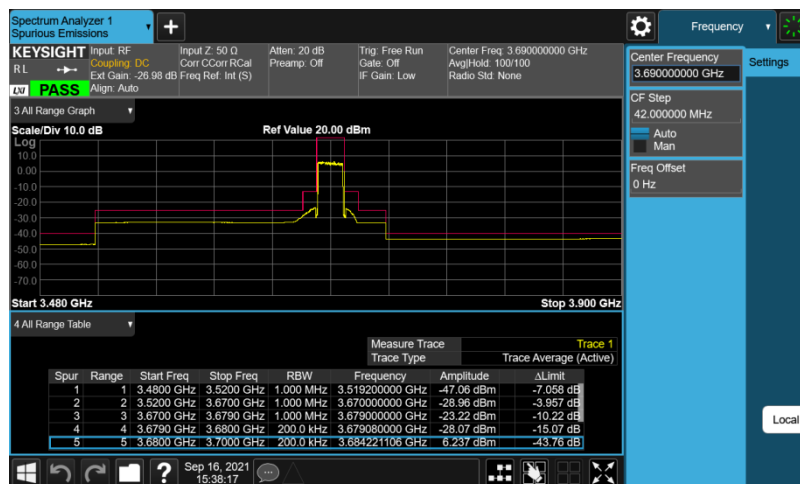
Band48-20MHz-QPSK-55340-E-TM1.1



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



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



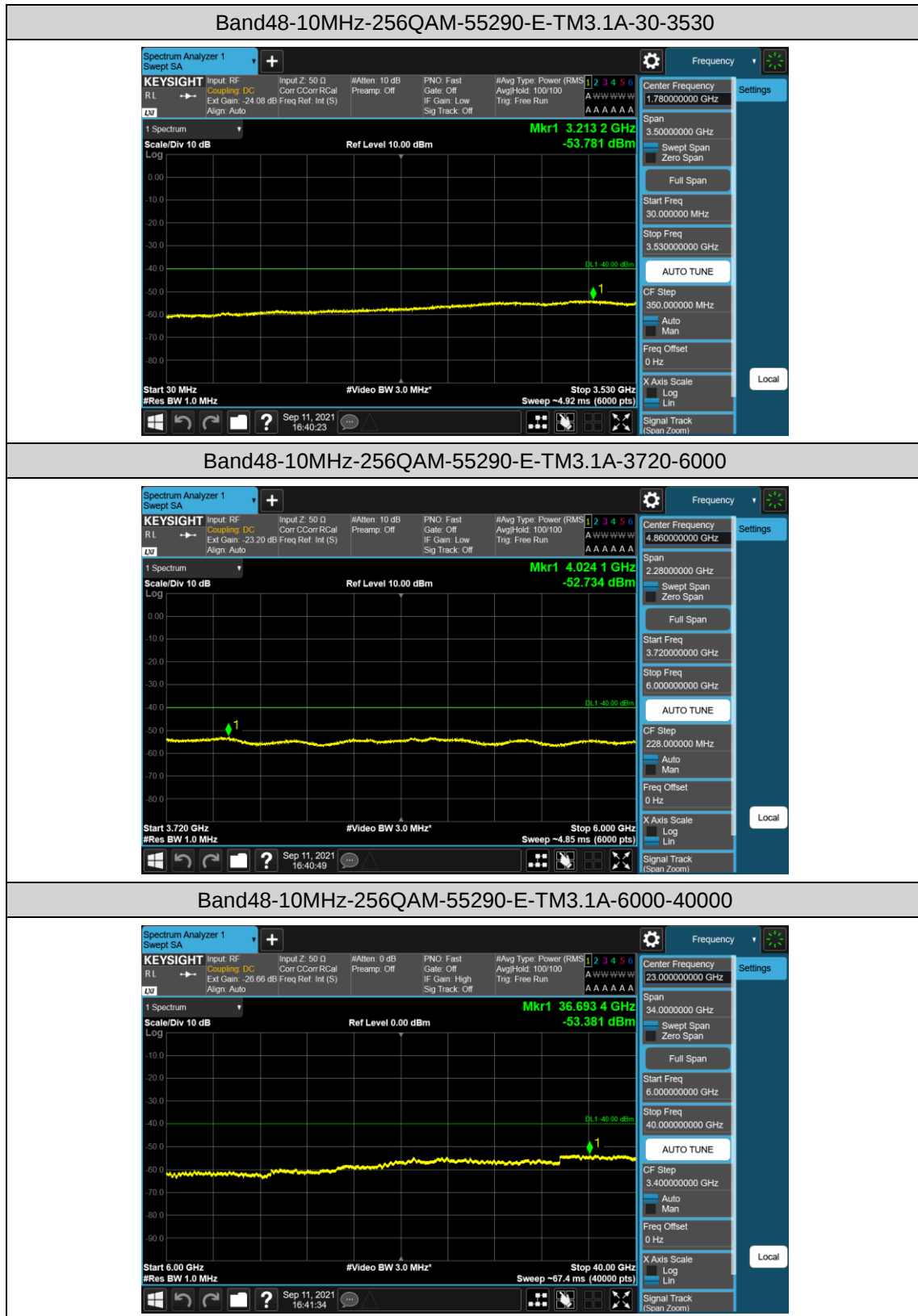
Appendix G: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band48	10MHz	256QAM	55290	E-TM3.1A	30-3530	-53.78	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	3720-6000	-52.73	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	6000-40000	-53.38	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	30-3530	-53.97	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	3720-6000	-52.94	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.45	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	30-3530	-54.10	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	3720-6000	-52.61	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	6000-40000	-53.50	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	30-3530	-53.90	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	3720-6000	-52.97	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	6000-40000	-53.68	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	30-3530	-54.21	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	3720-6000	-53.04	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	6000-40000	-53.57	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	30-3530	-54.42	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	3720-6000	-53.17	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	6000-40000	-53.69	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	30-3530	-53.68	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	3720-6000	-52.94	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	6000-40000	-53.57	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	30-3530	-54.18	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	3720-6000	-53.02	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.43	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	30-3530	-53.80	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	3720-6000	-52.99	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	6000-40000	-53.50	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	30-3530	-53.92	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	3720-6000	-53.00	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	6000-40000	-53.58	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	30-3530	-54.00	PASS

Band48	20MHz	QPSK	55990	E-TM1.1	3720-6000	-53.27	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	6000-40000	-53.56	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	30-3530	-54.31	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	3720-6000	-53.12	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	6000-40000	-53.59	PASS

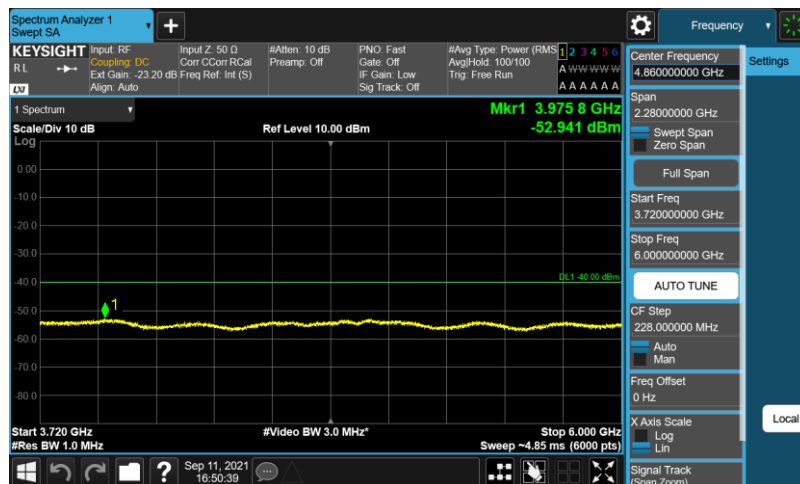
Test Graphs



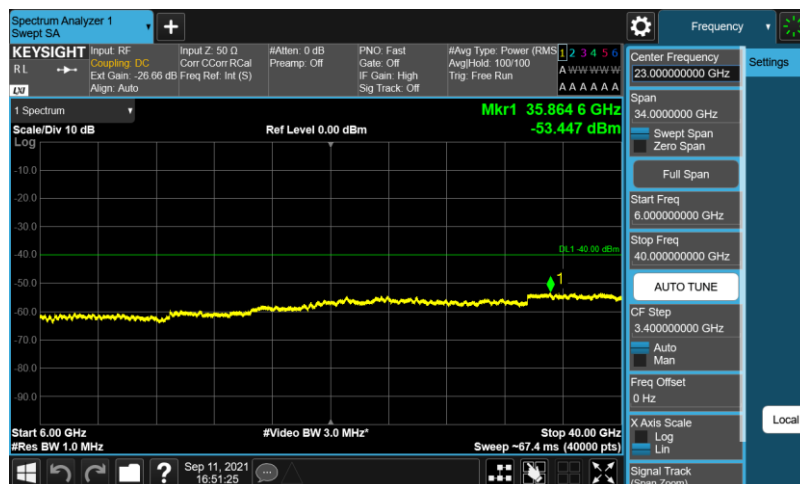
Band48-10MHz-256QAM-55990-E-TM3.1A-30-3530



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



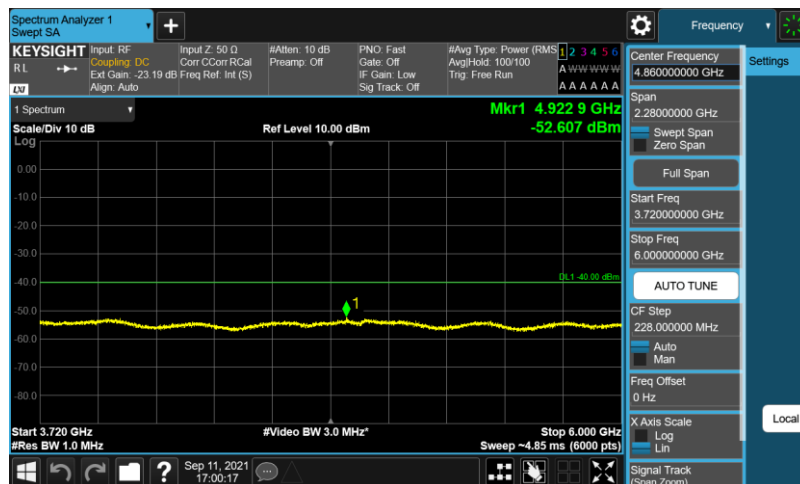
Band48-10MHz-256QAM-55990-E-TM3.1A-6000-40000



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



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



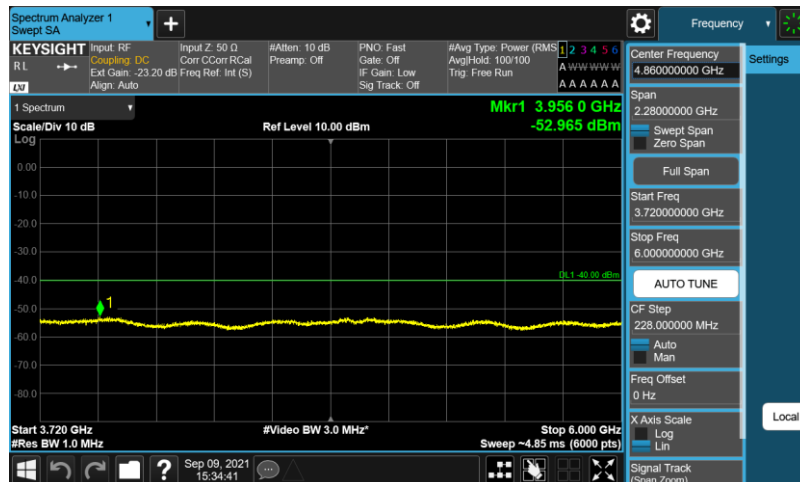
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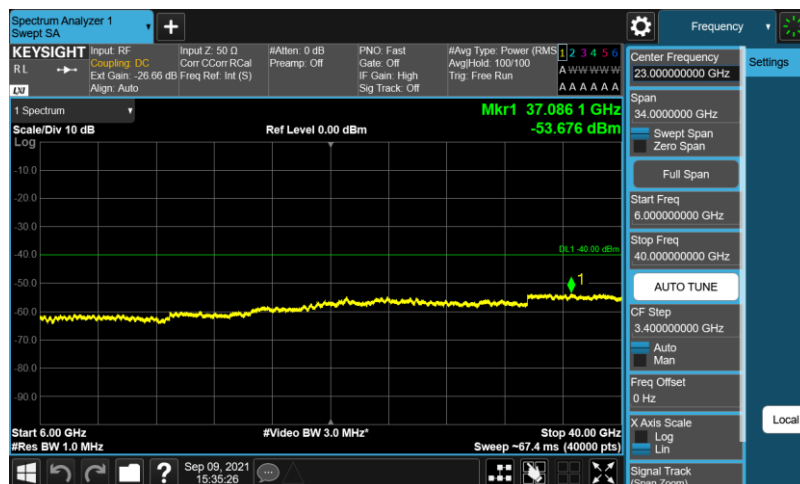
Band48-10MHz-QPSK-55290-E-TM1.1-30-3530



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



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



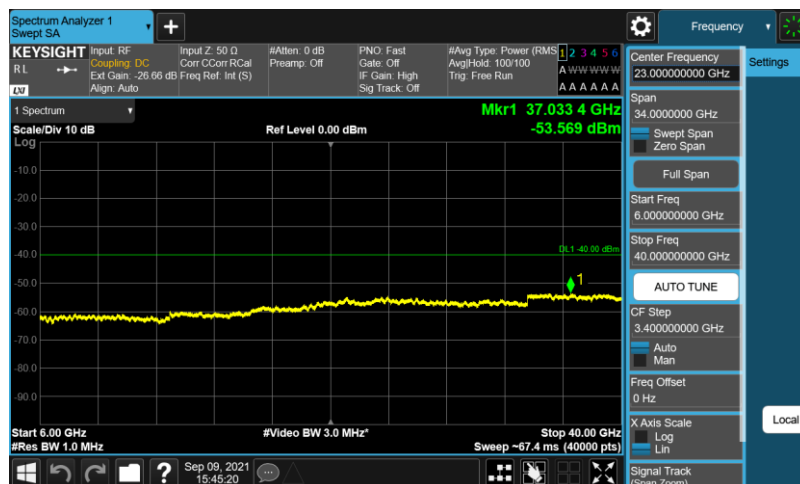
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Band48-10MHz-QPSK-55990-E-TM1.1-3720-6000



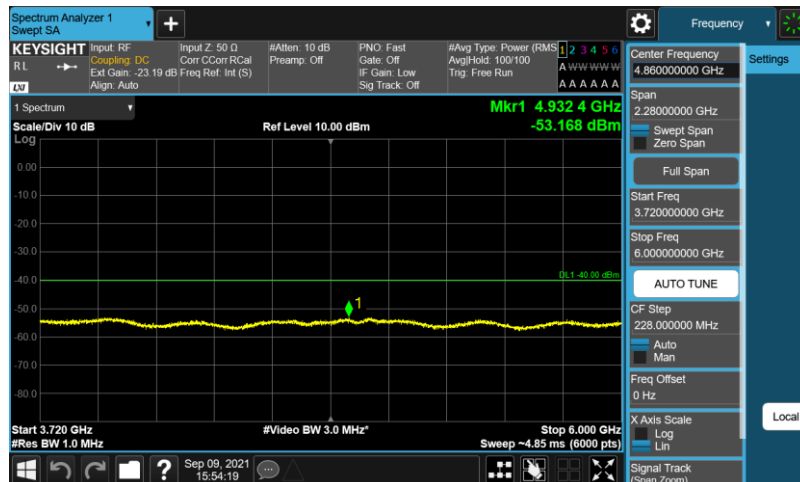
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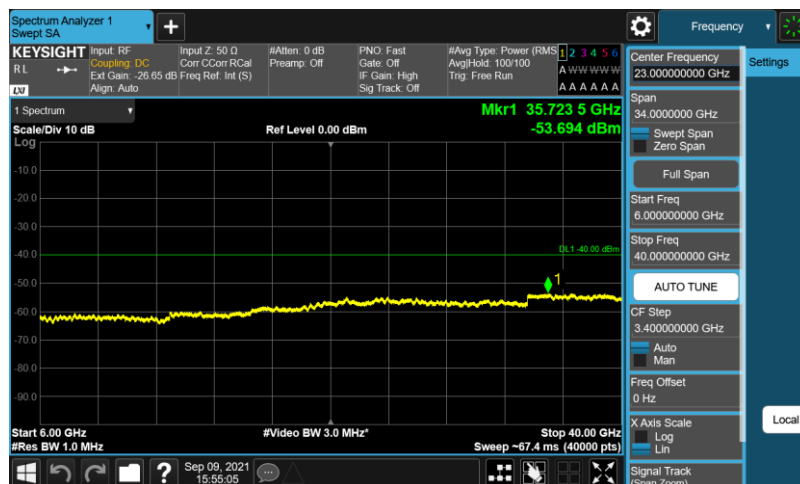
Band48-10MHz-QPSK-56690-E-TM1.1-30-3530



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



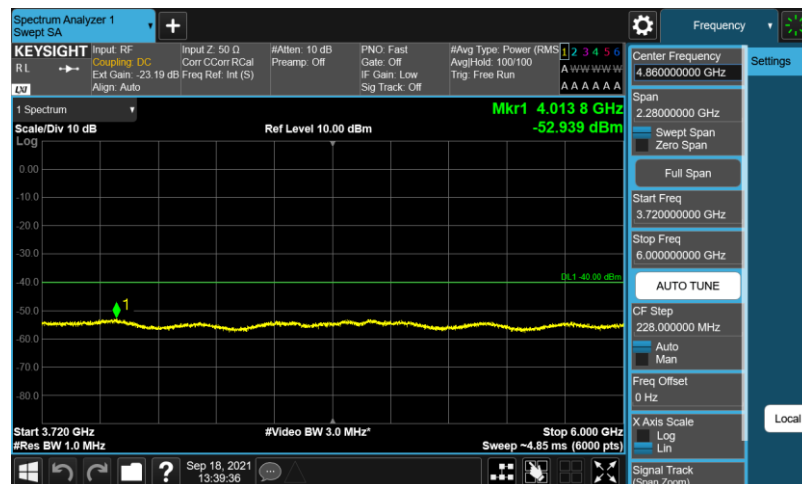
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Band48-20MHz-256QAM-55340-E-TM3.1A-30-3530



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



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

