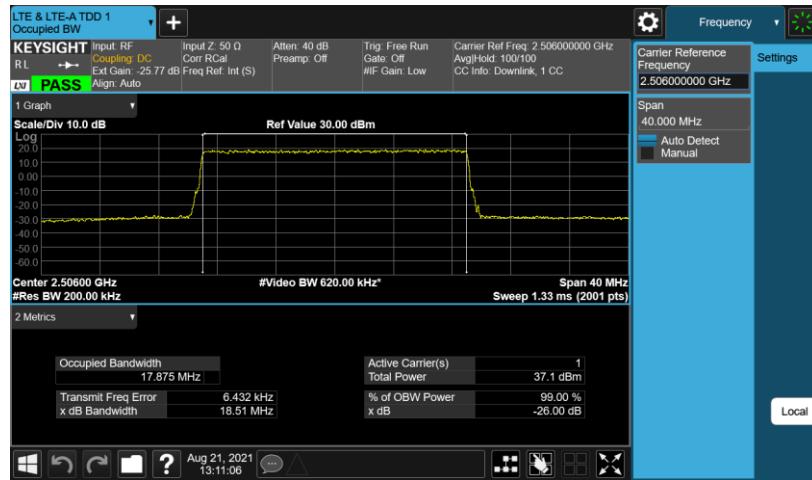
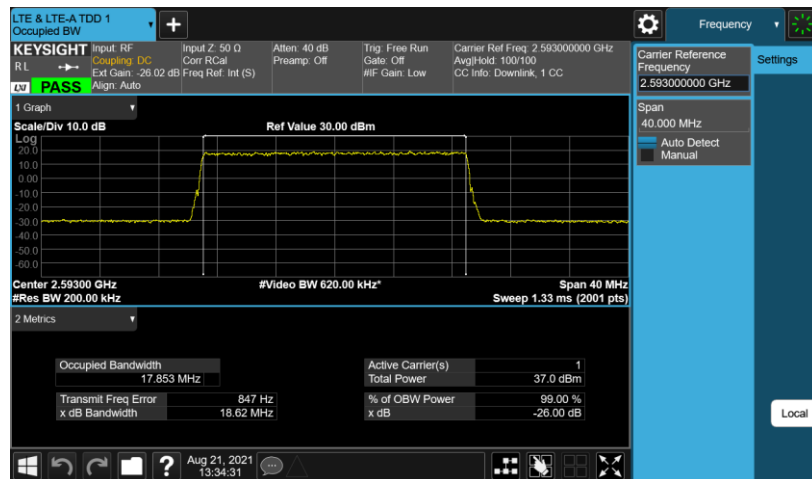


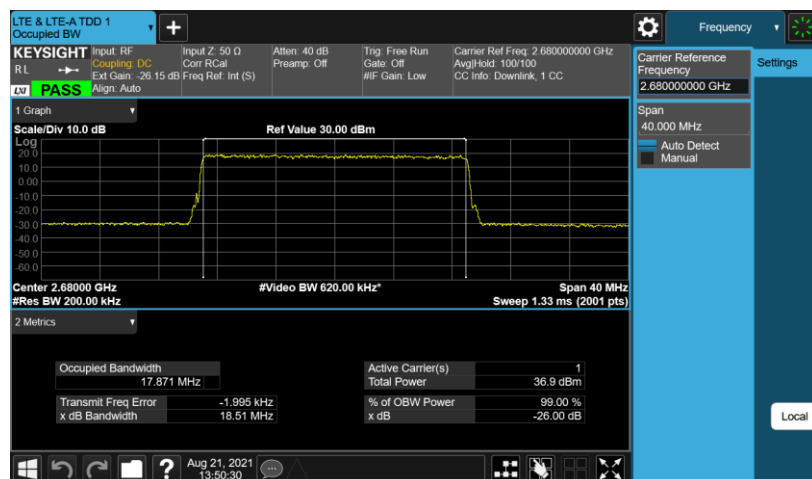
Band41-20MHz-QPSK-39750-E-TM1.1



Band41-20MHz-QPSK-40620-E-TM1.1



Band41-20MHz-QPSK-41490-E-TM1.1



Appendix D: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	10MHz	256QAM	39700	E-TM3.1A	102	25	10	0.003998	within the authorized bands	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	25	9	0.003599		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	138	25	10	0.003998		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	102	25	30	0.011570		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	25	28	0.010798		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	138	25	30	0.011570		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	102	25	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	25	43	0.016015		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	138	25	43	0.016015		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	102	25	64	0.025590	within the authorized bands	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	25	63	0.025190		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	138	25	61	0.024390		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	102	25	63	0.024296		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	25	65	0.025067		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	138	25	64	0.024682		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	102	25	61	0.022719		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	25	59	0.021974		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	138	25	62	0.023091		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	102	25	66	0.026337	within the authorized bands	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	25	65	0.025938		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	138	25	65	0.025938		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	102	25	58	0.022368		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	25	61	0.023525		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	138	25	61	0.023525		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	102	25	65	0.024254		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	25	64	0.023881		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	138	25	63	0.023507		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	102	25	80	0.031923	within the authorized bands	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	25	77	0.030726		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	138	25	82	0.032721		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	102	25	86	0.033166		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	25	89	0.034323		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	138	25	82	0.031624		PASS

Band41	20MHz	QPSK	41490	E-TM1.1	102	25	87	0.032463		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	25	86	0.032090		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	138	25	86	0.032090		PASS

Voltage										
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	10MHz	256QAM	39700	E-TM3.1A	120	-30	14	0.005598	within the authorized bands	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	-20	15	0.005998		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	-10	11	0.004398		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	0	15	0.005998		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	10	16	0.006397		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	20	16	0.006397		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	30	18	0.007197		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	40	19	0.007597		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	50	21	0.008397		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-30	29	0.011184		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-20	31	0.011955		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-10	30	0.011570		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	0	35	0.013498		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	10	32	0.012341		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	20	33	0.012727		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	30	32	0.012341		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	40	36	0.013884		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	50	36	0.013884		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-30	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-20	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-10	41	0.015270		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	0	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	10	39	0.014525		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	20	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	30	42	0.015642		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	40	41	0.015270		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	50	42	0.015642		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-30	71	0.028389		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-20	72	0.028788		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-10	70	0.027989		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	0	69	0.027589		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	10	70	0.027989		PASS

Band41	10MHz	QPSK	39700	E-TM1.1	120	20	70	0.027989	within the authori zed bands	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	30	67	0.026789		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	40	67	0.026789		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	50	62	0.024790		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	55	64	0.025590		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-40	65	0.025067		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-30	62	0.023911		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-20	65	0.025067		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-10	64	0.024682		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	0	61	0.023525		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	10	62	0.023911		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	20	62	0.023911		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	30	61	0.023525		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	40	62	0.023911		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	50	60	0.023139		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-30	72	0.026816		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-20	71	0.026443		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-10	69	0.025698		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	0	73	0.027188		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	10	72	0.026816		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	20	68	0.025326		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	30	69	0.025698		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	40	70	0.026071		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	50	69	0.025698		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-30	66	0.026337	within the authori zed bands	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-20	64	0.025539		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-10	66	0.026337		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	0	63	0.025140		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	10	63	0.025140		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	20	61	0.024342		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	30	60	0.023943		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	40	62	0.024741		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	50	61	0.024342		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-30	64	0.024682		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-20	61	0.023525		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-10	62	0.023911		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	0	60	0.023139		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	10	62	0.023911		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	20	62	0.023911		PASS

Band41	20MHz	256QAM	40620	E-TM3.1A	120	30	64	0.024682		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	40	63	0.024296		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	50	62	0.023911		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-30	67	0.025000		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-20	65	0.024254		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-10	68	0.025373		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	0	64	0.023881		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	10	65	0.024254		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	20	64	0.023881		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	30	66	0.024627		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	40	71	0.026493		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	50	66	0.024627		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-30	73	0.029130	within the authori zed bands	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-20	74	0.029529		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-10	78	0.031125		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	0	78	0.031125		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	10	79	0.031524		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	20	78	0.031125		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	30	77	0.030726		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	40	78	0.031125		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	50	81	0.032322		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	-30	82	0.031624		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	-20	81	0.031238		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	-10	83	0.032009		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	0	82	0.031624		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	10	82	0.031624		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	20	85	0.032781		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	30	82	0.031624		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	40	78	0.030081		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	50	80	0.030852		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-30	87	0.032463		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-20	85	0.031716		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-10	85	0.031716		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	0	85	0.031716		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	10	83	0.030970		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	20	81	0.030224		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	30	80	0.029851		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	40	78	0.029104		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	50	74	0.027612		PASS

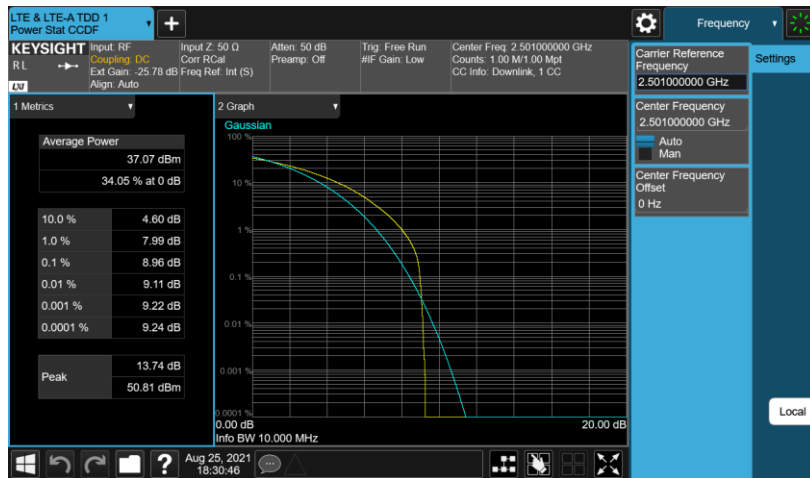
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

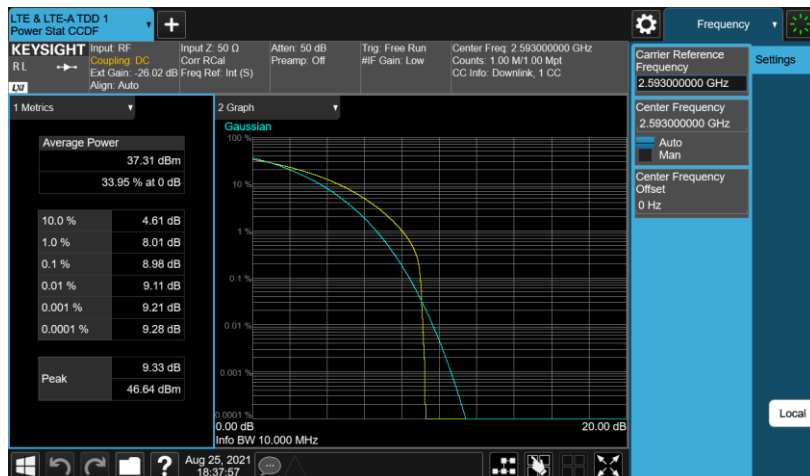
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band41	10MHz	256QAM	39700	E-TM3.1A	8.96
Band41	10MHz	256QAM	40620	E-TM3.1A	8.98
Band41	10MHz	256QAM	41540	E-TM3.1A	9.04
Band41	10MHz	QPSK	39700	E-TM1.1	8.74
Band41	10MHz	QPSK	40620	E-TM1.1	8.83
Band41	10MHz	QPSK	41540	E-TM1.1	8.85
Band41	20MHz	256QAM	39750	E-TM3.1A	9.04
Band41	20MHz	256QAM	40620	E-TM3.1A	9.22
Band41	20MHz	256QAM	41490	E-TM3.1A	9.64
Band41	20MHz	QPSK	39750	E-TM1.1	8.59
Band41	20MHz	QPSK	40620	E-TM1.1	9.13
Band41	20MHz	QPSK	41490	E-TM1.1	8.17

Test Graphs

Band41-10MHz-256QAM-39700-E-TM3.1A



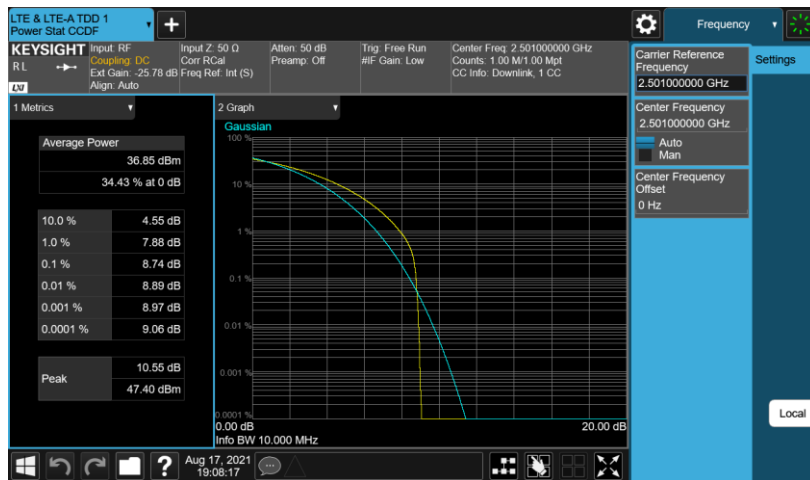
Band41-10MHz-256QAM-40620-E-TM3.1A



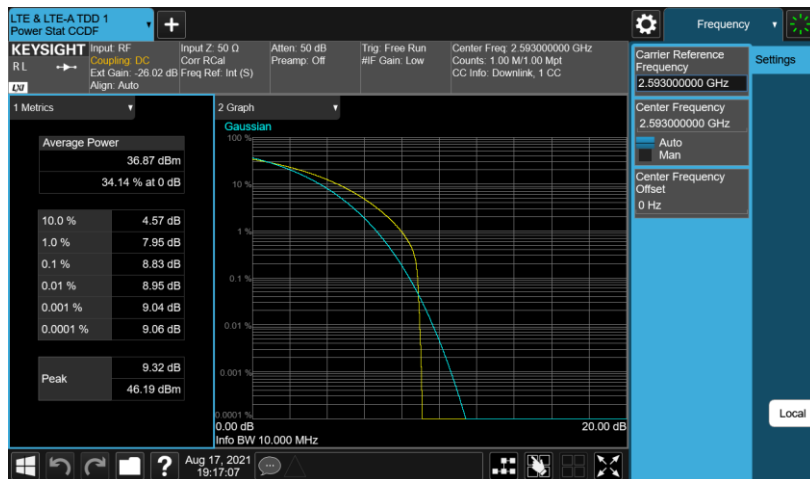
Band41-10MHz-256QAM-41540-E-TM3.1A



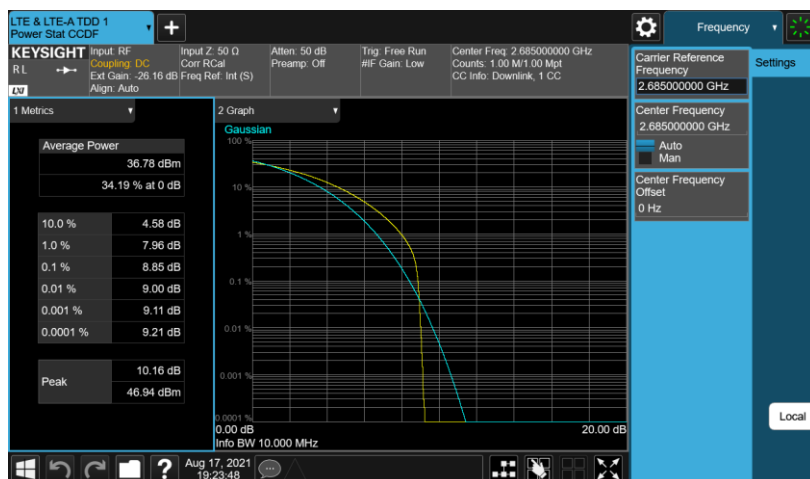
Band41-10MHz-QPSK-39700-E-TM1.1



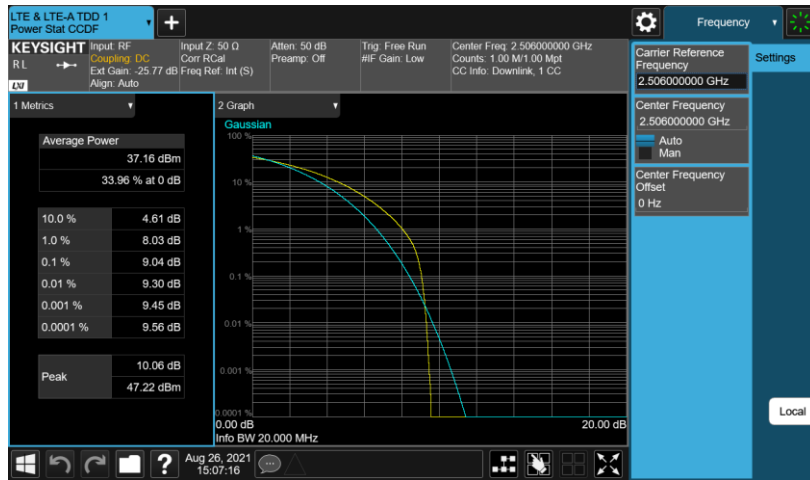
Band41-10MHz-QPSK-40620-E-TM1.1



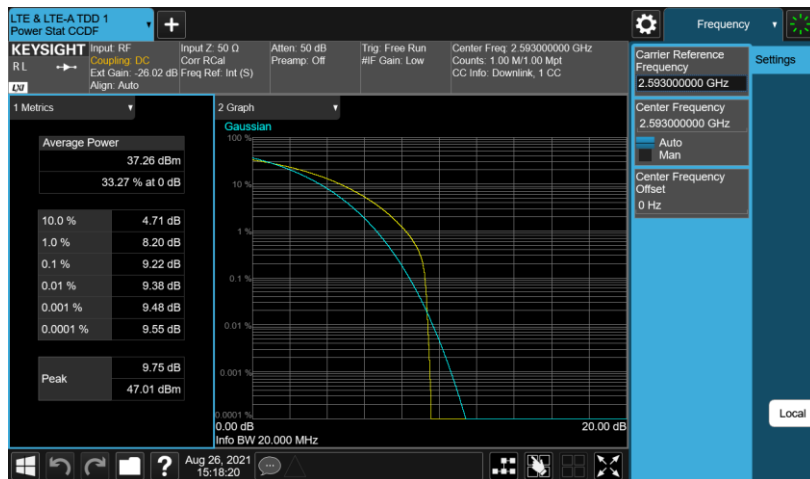
Band41-10MHz-QPSK-41540-E-TM1.1



Band41-20MHz-256QAM-39750-E-TM3.1A



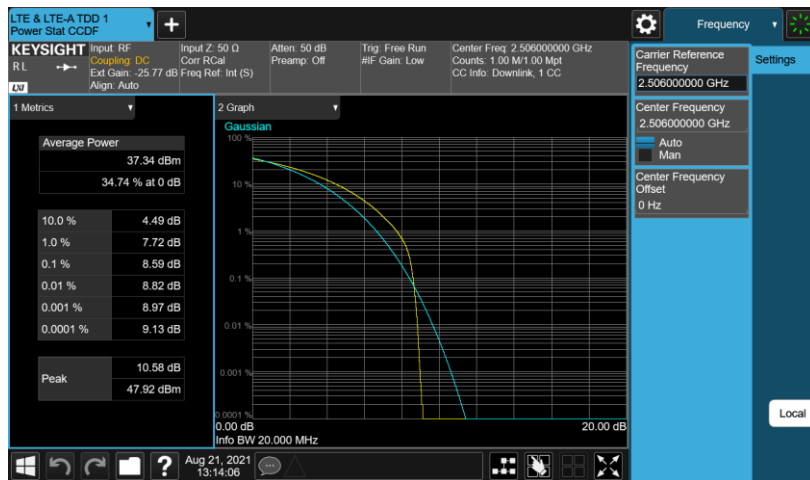
Band41-20MHz-256QAM-40620-E-TM3.1A



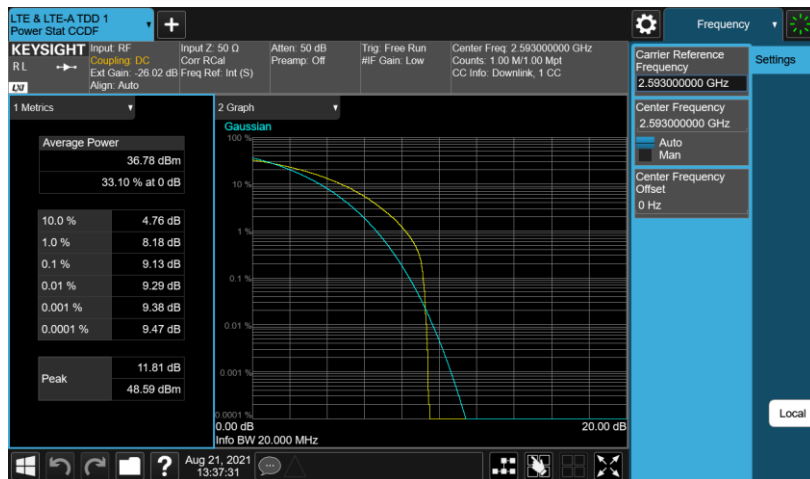
Band41-20MHz-256QAM-41490-E-TM3.1A



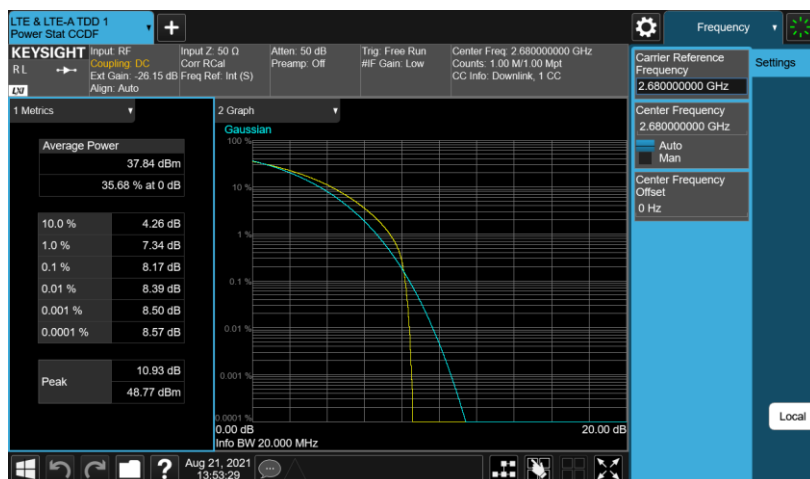
Band41-20MHz-QPSK-39750-E-TM1.1



Band41-20MHz-QPSK-40620-E-TM1.1



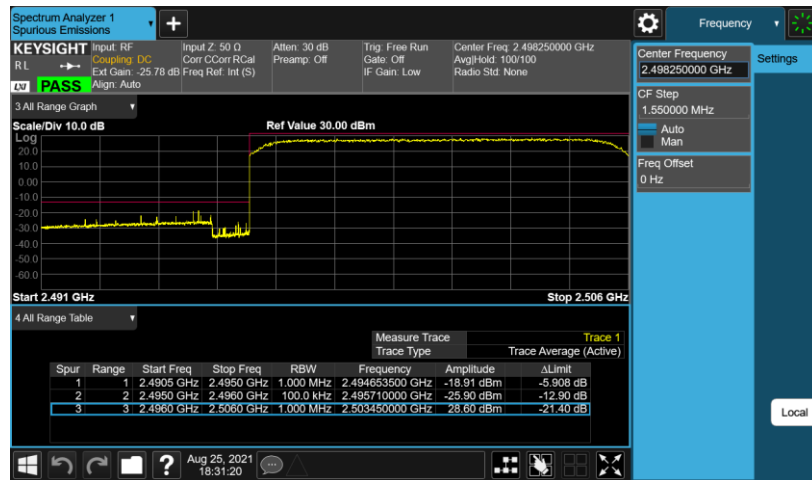
Band41-20MHz-QPSK-41490-E-TM1.1



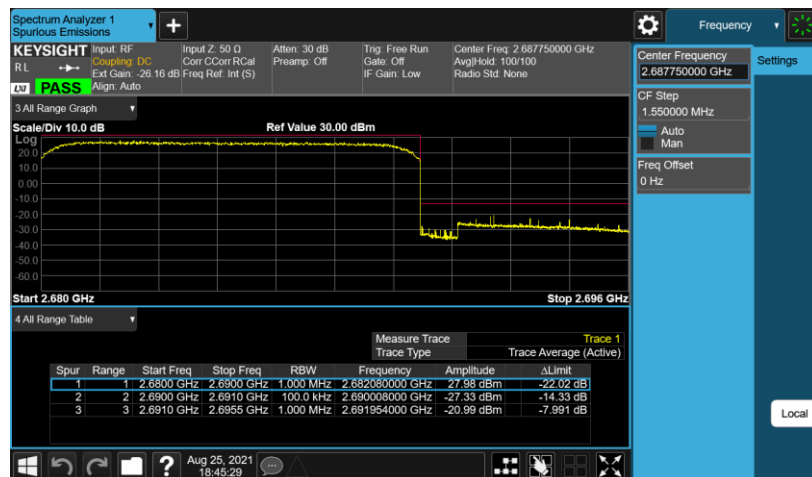
Appendix F: Band Edge

Test Graphs

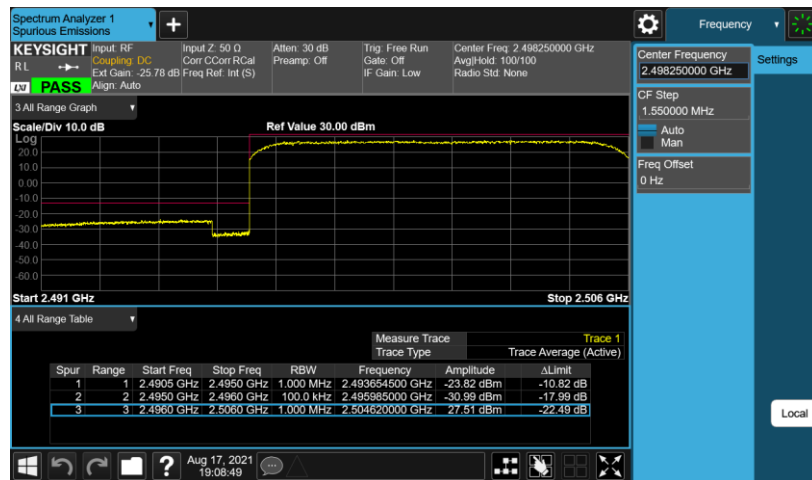
Band41-10MHz-256QAM-39700-E-TM3.1A



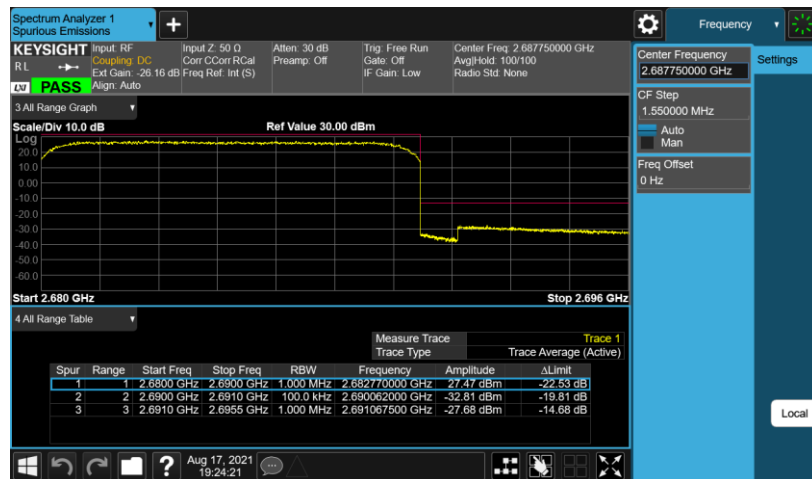
Band41-10MHz-256QAM-41540-E-TM3.1A



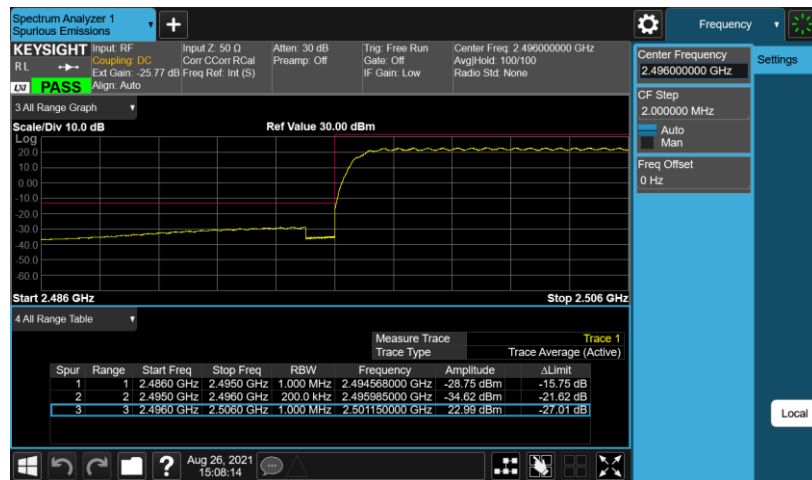
Band41-10MHz-QPSK-39700-E-TM1.1



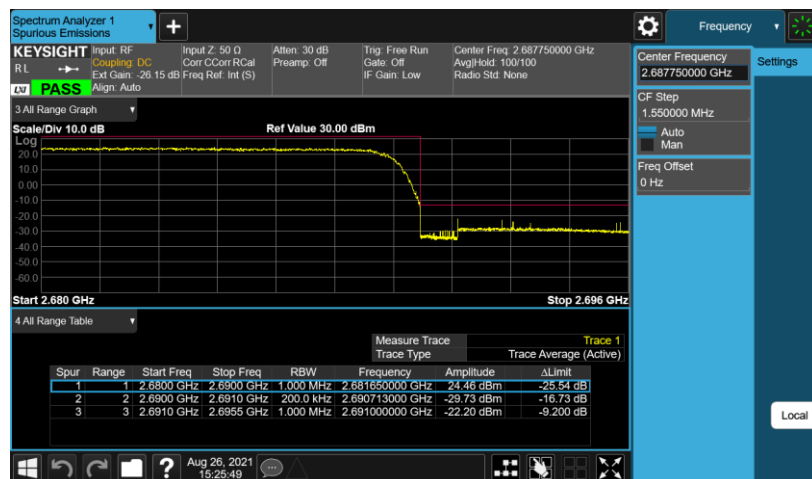
Band41-10MHz-QPSK-41540-E-TM1.1



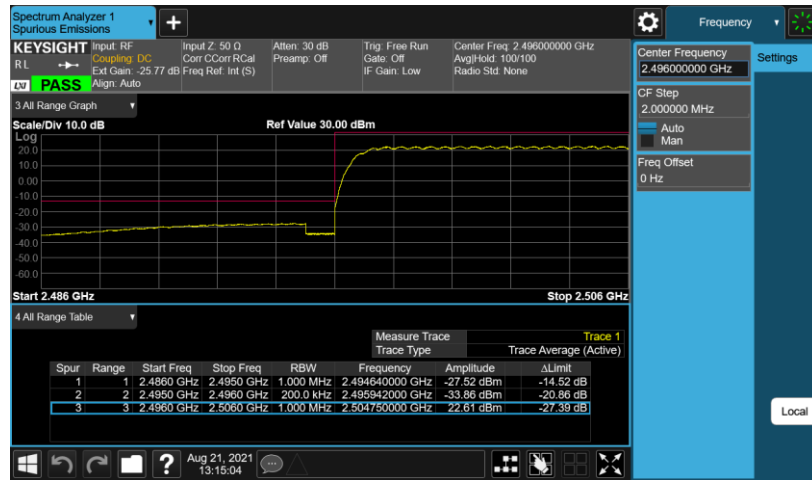
Band41-20MHz-256QAM-39750-E-TM3.1A



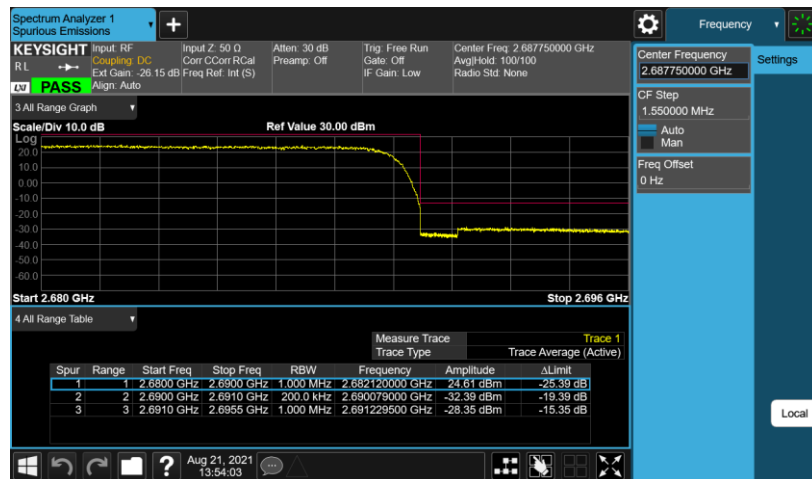
Band41-20MHz-256QAM-41490-E-TM3.1A



Band41-20MHz-QPSK-39750-E-TM1.1



Band41-20MHz-QPSK-41490-E-TM1.1

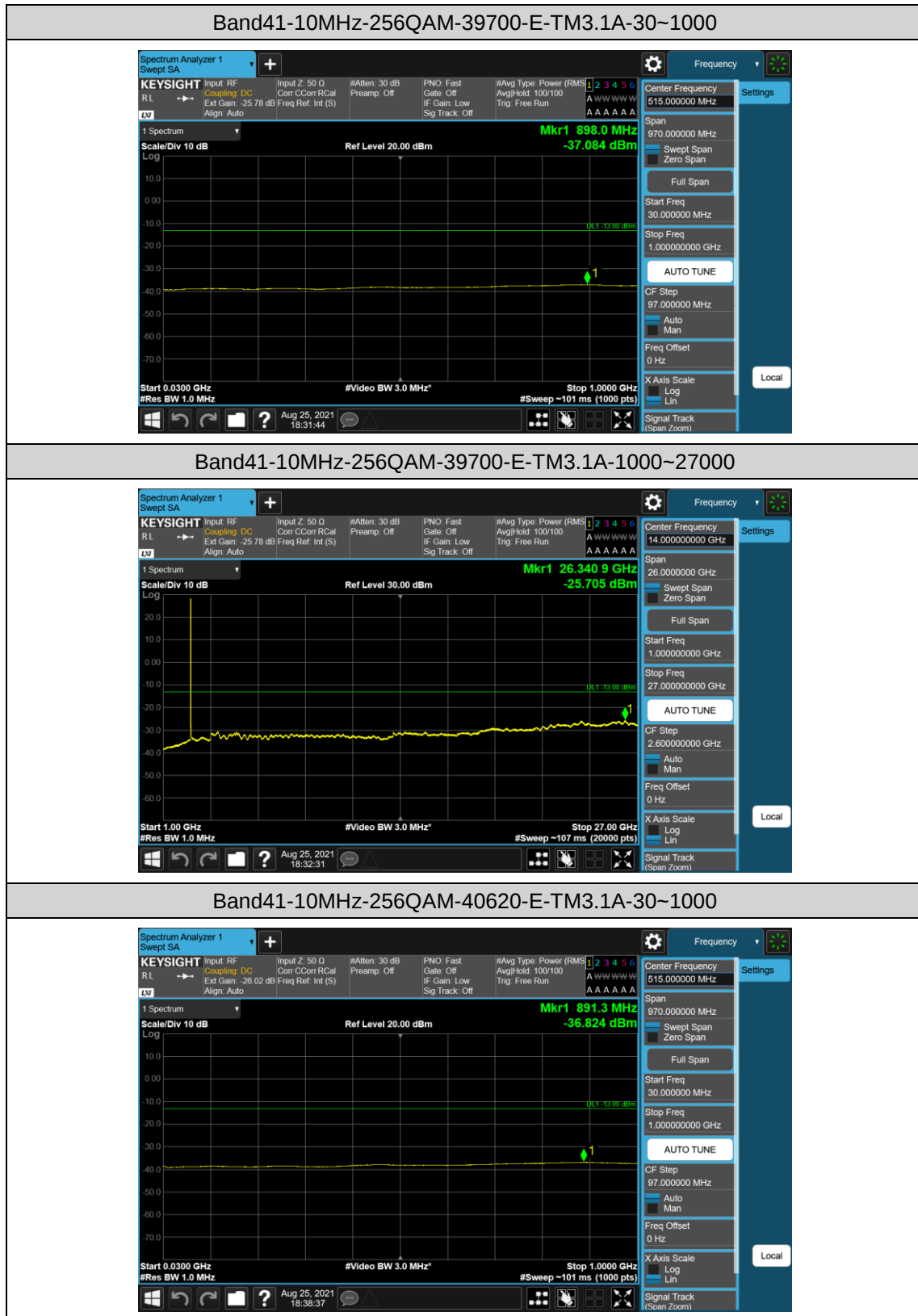


Appendix G: Conducted Spurious Emission

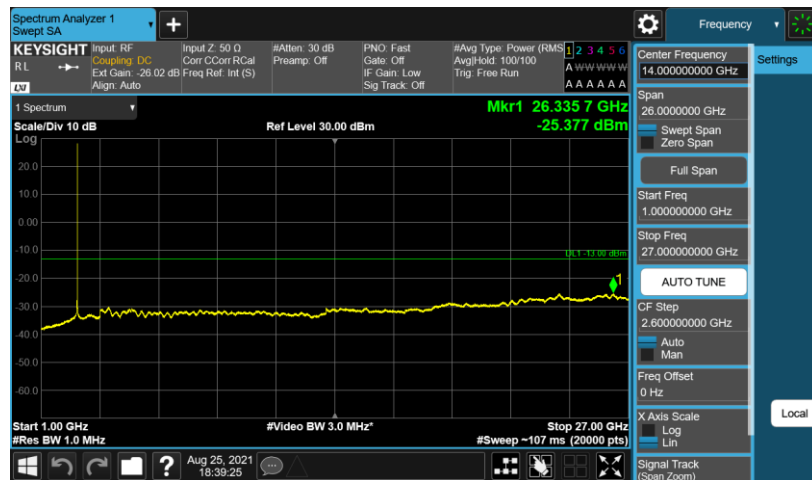
Test Result

Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band41	10MHz	256QAM	39700	E-TM3.1A	30~1000	-37.08	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	1000~27000	-25.71	PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	30~1000	-36.82	PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	1000~27000	-25.38	PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	30~1000	-36.69	PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	1000~27000	-25.34	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	30~1000	-36.96	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	1000~27000	-25.63	PASS
Band41	10MHz	QPSK	40620	E-TM1.1	30~1000	-36.78	PASS
Band41	10MHz	QPSK	40620	E-TM1.1	1000~27000	-25.15	PASS
Band41	10MHz	QPSK	41540	E-TM1.1	30~1000	-36.63	PASS
Band41	10MHz	QPSK	41540	E-TM1.1	1000~27000	-25.23	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	30~1000	-37.09	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	1000~27000	-25.66	PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	30~1000	-36.88	PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	1000~27000	-25.58	PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	30~1000	-36.74	PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	1000~27000	-25.33	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	30~1000	-36.96	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	1000~27000	-25.51	PASS
Band41	20MHz	QPSK	40620	E-TM1.1	30~1000	-36.80	PASS
Band41	20MHz	QPSK	40620	E-TM1.1	1000~27000	-25.39	PASS
Band41	20MHz	QPSK	41490	E-TM1.1	30~1000	-36.65	PASS
Band41	20MHz	QPSK	41490	E-TM1.1	1000~27000	-25.22	PASS

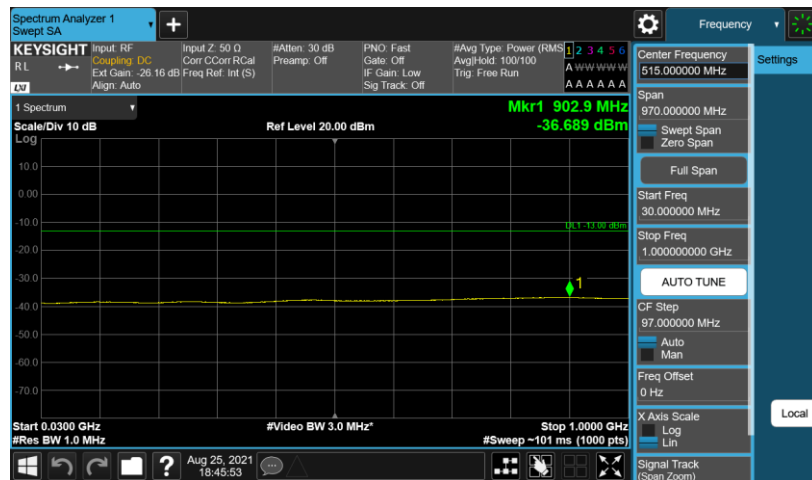
Test Graphs



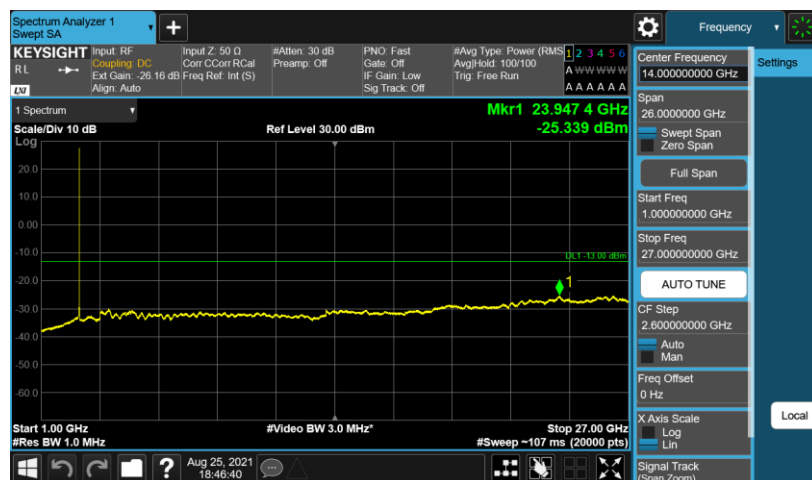
Band41-10MHz-256QAM-40620-E-TM3.1A-1000~27000



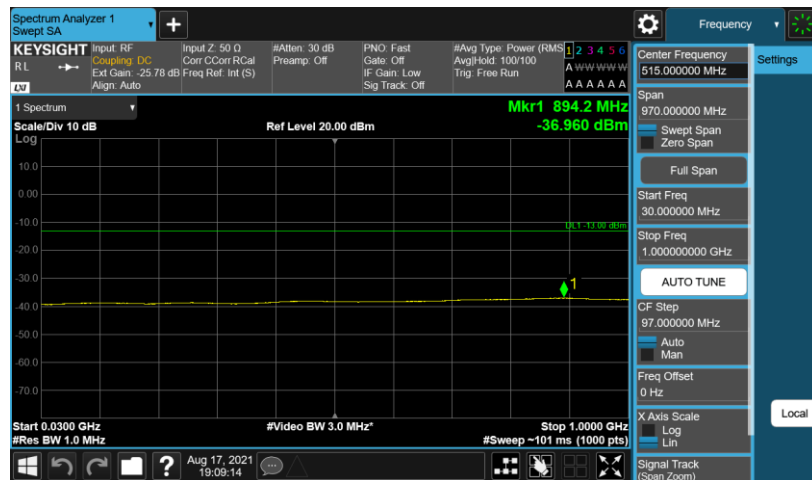
Band41-10MHz-256QAM-41540-E-TM3.1A-30~1000



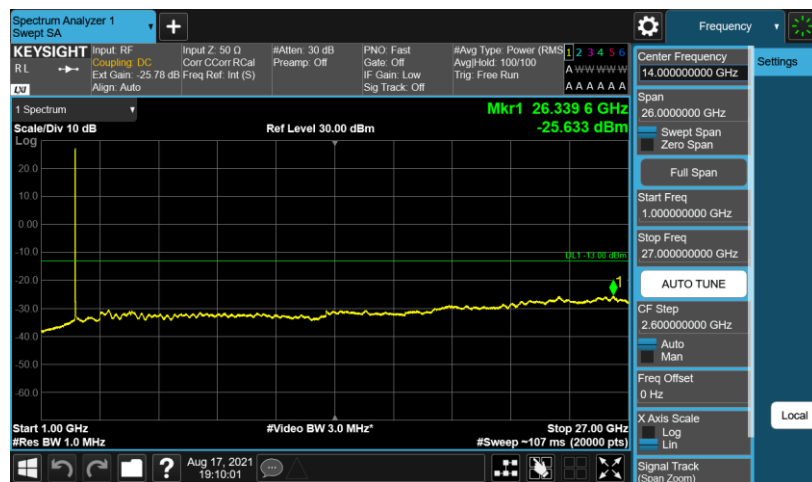
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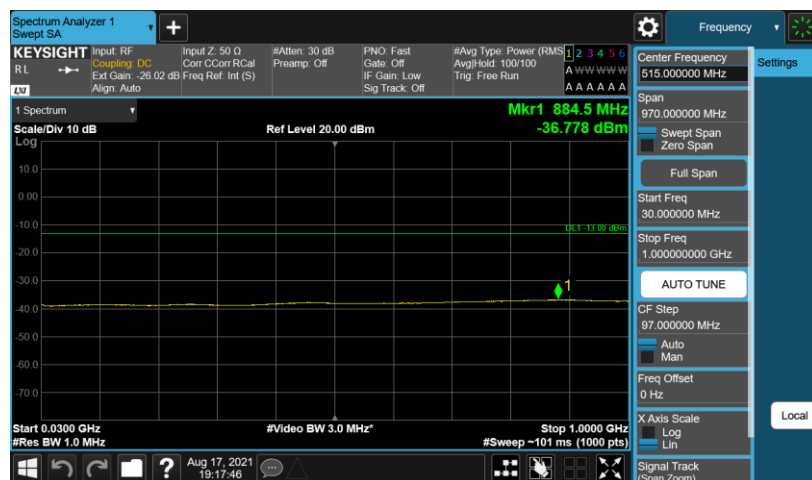
Band41-10MHz-QPSK-39700-E-TM1.1-30~1000



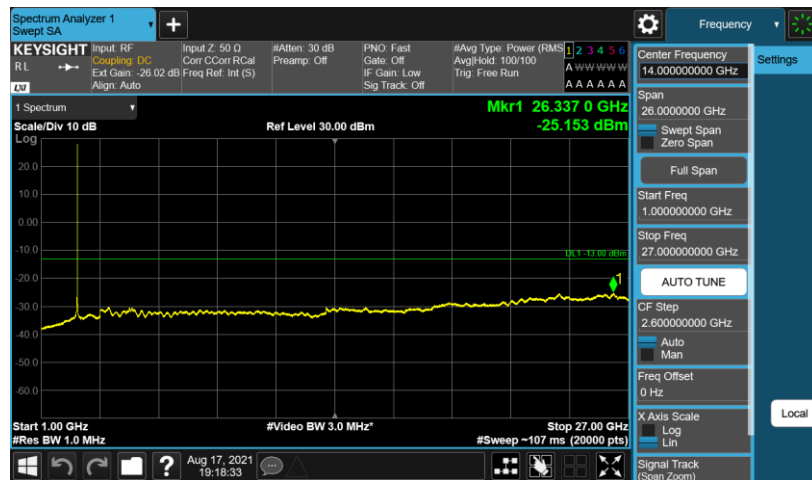
Band41-10MHz-QPSK-39700-E-TM1.1-1000~27000



Band41-10MHz-QPSK-40620-E-TM1.1-30~1000



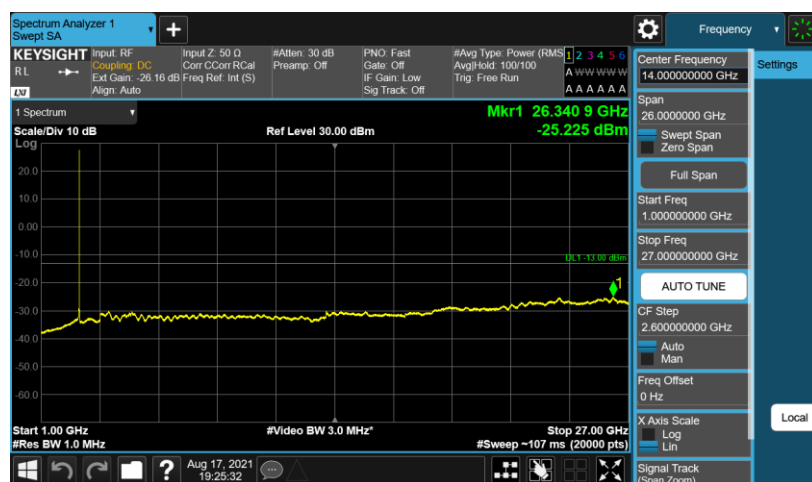
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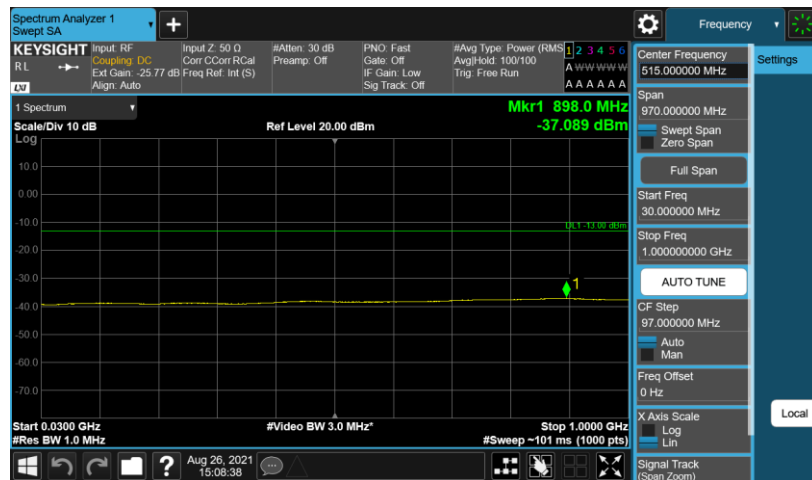
Band41-10MHz-QPSK-41540-E-TM1.1-30~1000



Band41-10MHz-QPSK-41540-E-TM1.1-1000~27000



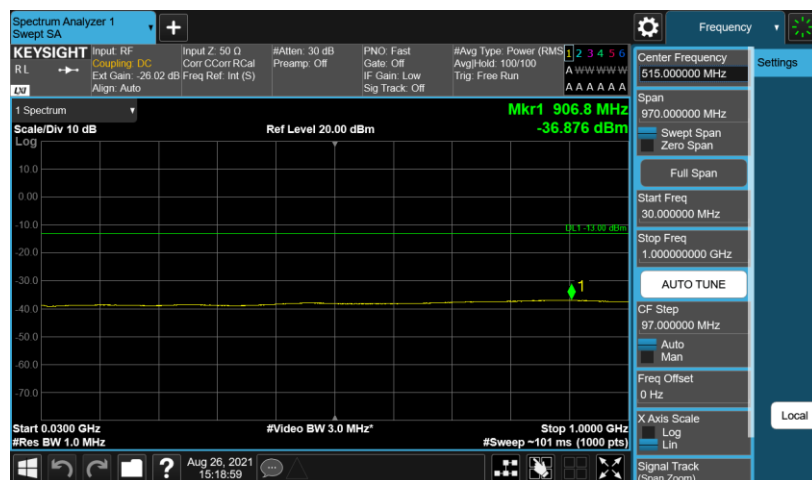
Band41-20MHz-256QAM-39750-E-TM3.1A-30~1000



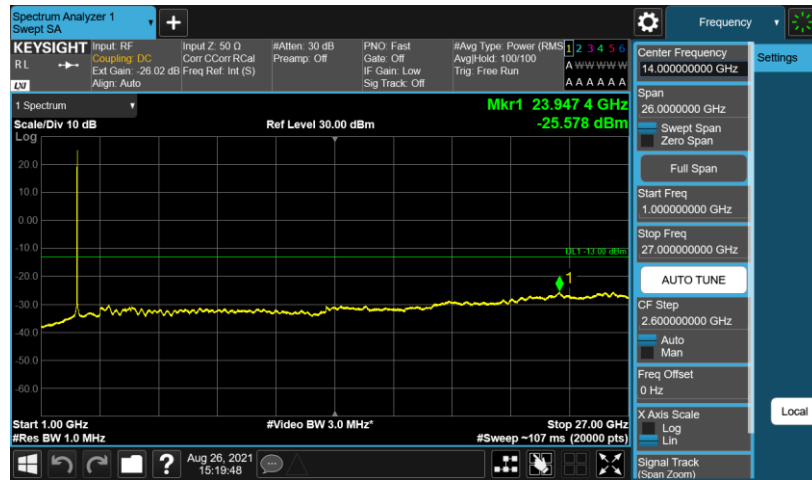
Band41-20MHz-256QAM-39750-E-TM3.1A-1000~27000



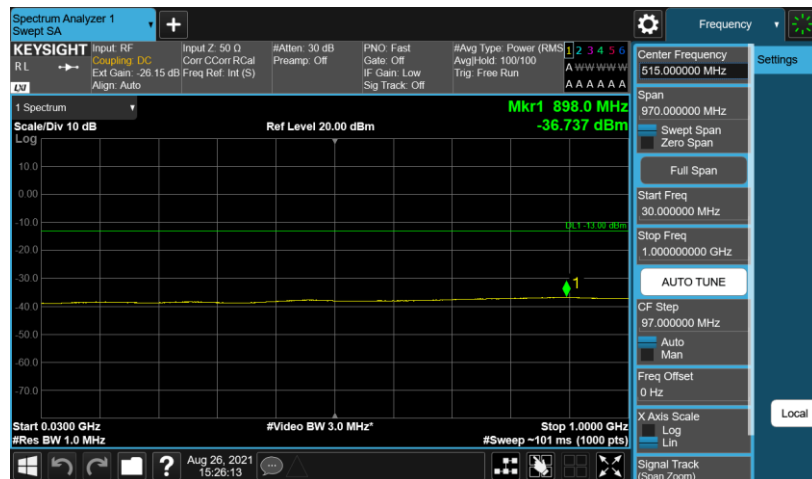
Band41-20MHz-256QAM-40620-E-TM3.1A-30~1000



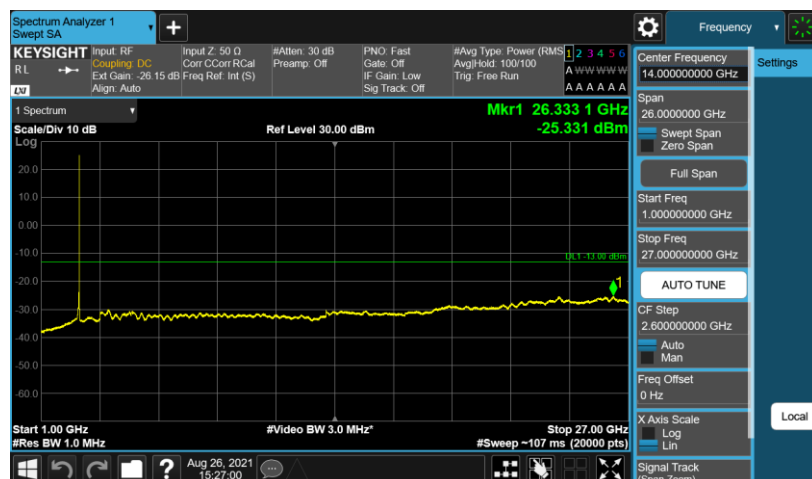
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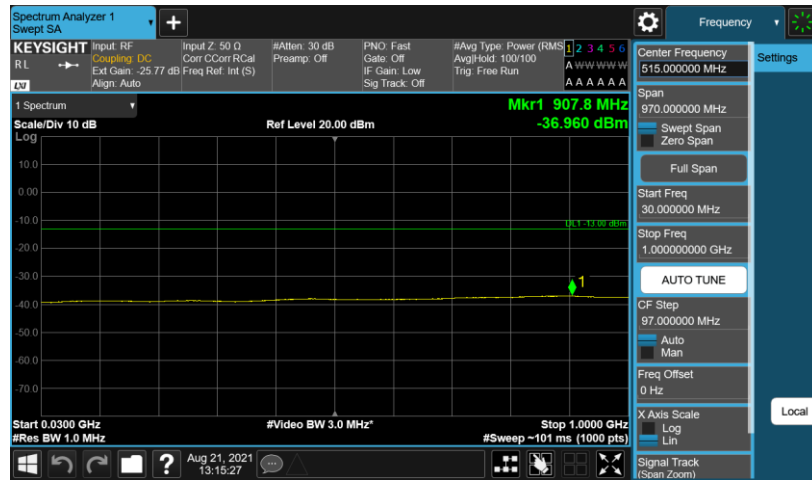
Band41-20MHz-256QAM-41490-E-TM3.1A-30~1000



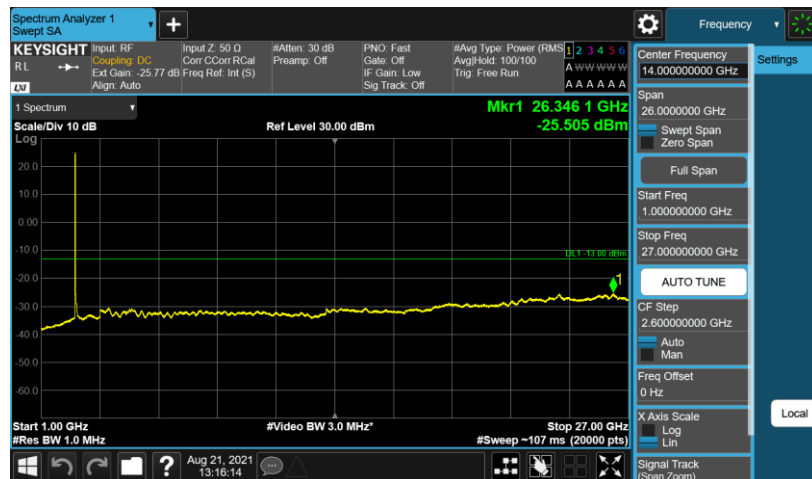
Band41-20MHz-256QAM-41490-E-TM3.1A-1000~27000



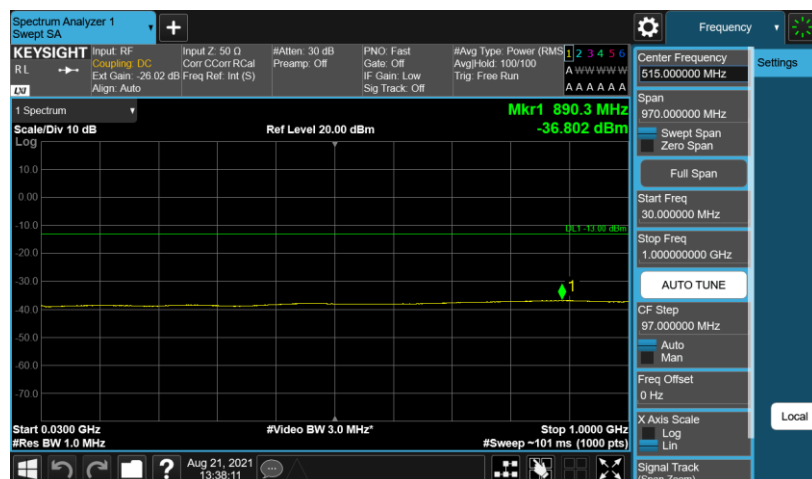
Band41-20MHz-QPSK-39750-E-TM1.1-30~1000



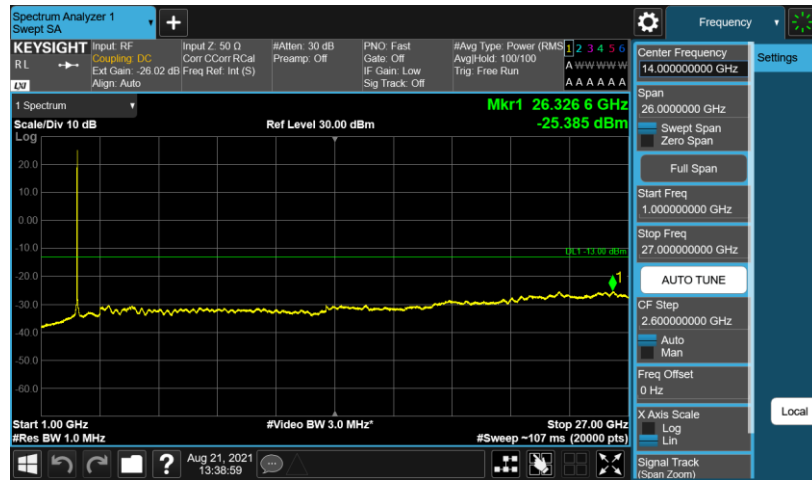
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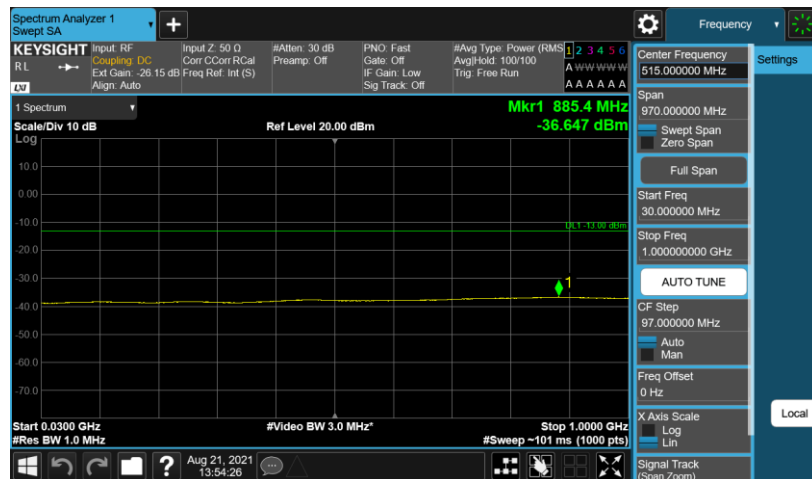
Band41-20MHz-QPSK-40620-E-TM1.1-30~1000



Band41-20MHz-QPSK-40620-E-TM1.1-1000~27000



Band41-20MHz-QPSK-41490-E-TM1.1-30~1000



Band41-20MHz-QPSK-41490-E-TM1.1-1000~27000

