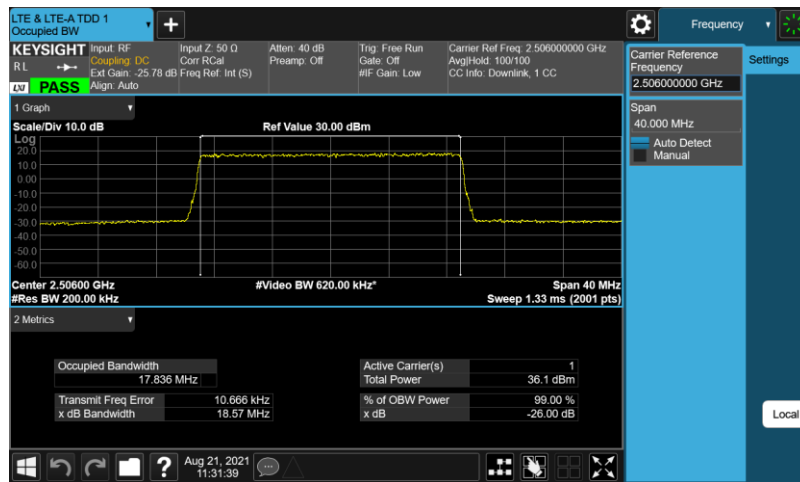
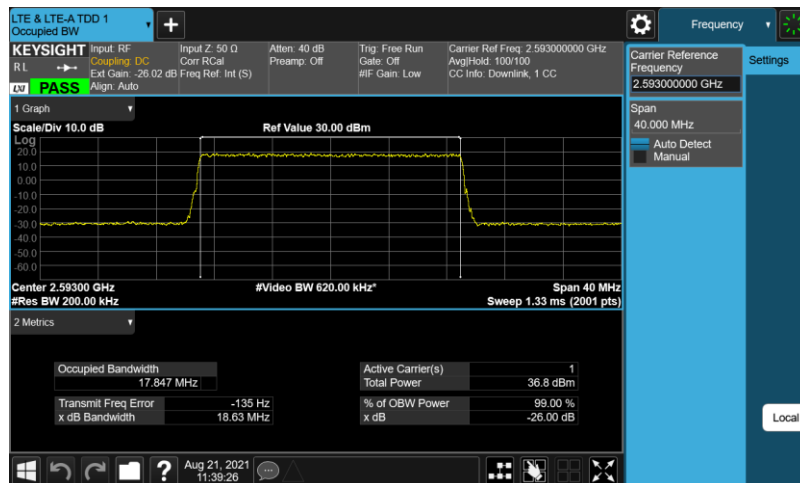


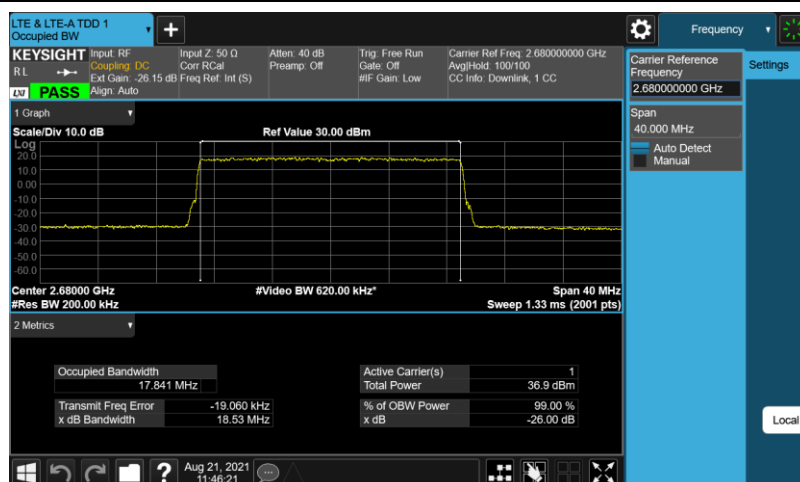
Band41-20MHz-QPSK-39750-E-TM1.1



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	71	0.028389	within the authorized bands	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	25	70	0.027989		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	138	25	68	0.027189		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	102	25	79	0.030467		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	25	79	0.030467		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	138	25	77	0.029695		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	102	25	76	0.028305		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	25	78	0.029050		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	138	25	74	0.027561		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	102	25	82	0.032787	within the authorized bands	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	25	83	0.033187		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	138	25	79	0.031587		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	102	25	93	0.035866		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	25	92	0.035480		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	138	25	91	0.035094		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	102	25	97	0.036127		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	25	97	0.036127		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	138	25	98	0.036499		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	102	25	62	0.024741	within the authorized bands	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	25	64	0.025539		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	138	25	61	0.024342		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	102	25	61	0.023525		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	25	60	0.023139		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	138	25	54	0.021982		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	102	25	56	0.020896		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	25	57	0.021269		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	138	25	57	0.021269		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	102	25	88	0.035116	within the authorized bands	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	25	86	0.034318		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	138	25	88	0.035116		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	102	25	99	0.038180		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	25	97	0.037408		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	138	25	95	0.036637		PASS

Band41	20MHz	QPSK	41490	E-TM1.1	102	25	92	0.034328		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	25	94	0.035075		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	138	25	94	0.035075		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	87	0.034786	within the authorized bands	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	-20	90	0.035986		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	-10	86	0.034386		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	0	87	0.034786		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	10	89	0.035586		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	20	88	0.035186		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	30	89	0.035586		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	40	87	0.034786		PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	120	50	88	0.035186		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-30	76	0.029310		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-20	79	0.030467		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	-10	77	0.029695		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	0	77	0.029695		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	10	78	0.030081		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	20	78	0.030081		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	30	82	0.031624		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	40	79	0.030467		PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	120	50	78	0.030081		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-30	73	0.027188		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-20	76	0.028305		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	-10	76	0.028305		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	0	78	0.029050		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	10	77	0.028678		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	20	75	0.027933		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	30	77	0.028678		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	40	75	0.027933		PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	120	50	76	0.028305		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-30	81	0.032387		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-20	81	0.032387		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	-10	83	0.033187		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	0	81	0.032387		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	10	80	0.031987		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	20	81	0.032387		PASS

Band41	10MHz	QPSK	39700	E-TM1.1	120	30	81	0.032387	within the authori zed bands	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	40	79	0.031587		PASS
Band41	10MHz	QPSK	39700	E-TM1.1	120	50	81	0.032387		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-30	77	0.029695		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-20	78	0.030081		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	-10	79	0.030467		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	0	81	0.031238		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	10	80	0.030852		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	20	80	0.030852		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	30	80	0.030852		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	40	79	0.030467		PASS
Band41	10MHz	QPSK	40620	E-TM1.1	120	50	80	0.030852		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-30	89	0.033147		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-20	86	0.032030		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	-10	86	0.032030		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	0	86	0.032030		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	10	87	0.032402		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	20	87	0.032402		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	30	87	0.032402		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	40	87	0.032402		PASS
Band41	10MHz	QPSK	41540	E-TM1.1	120	50	87	0.032402		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-30	63	0.025140	within the authori zed bands	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-20	65	0.025938		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	-10	62	0.024741		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	0	60	0.023943		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	10	61	0.024342		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	20	63	0.025140		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	30	64	0.025539		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	40	62	0.024741		PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	120	50	60	0.023943		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-30	59	0.022754		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-20	61	0.023525		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	-10	61	0.023525		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	0	58	0.022368		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	10	60	0.023139		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	20	59	0.022754		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	30	59	0.022754		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	40	58	0.022368		PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	120	50	60	0.023139		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-40	58	0.021642		PASS

Band41	20MHz	256QAM	41490	E-TM3.1A	120	-30	59	0.022015		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-20	54	0.020149		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	-10	57	0.021269		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	0	54	0.020149		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	10	53	0.019776		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	20	56	0.020896		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	30	55	0.020522		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	40	56	0.020896		PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	120	50	58	0.021642		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-30	91	0.036313	within the authori zed bands	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-20	92	0.036712		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-10	91	0.036313		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	0	90	0.035914		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	10	91	0.036313		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	20	90	0.035914		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	30	90	0.035914		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	40	91	0.036313		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	50	90	0.035914		PASS
Band41	20MHz	QPSK	39750	E-TM1.1	120	-30	87	0.033552		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	-20	88	0.033938		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	-10	88	0.033938		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	0	87	0.033552		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	10	88	0.033938		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	20	87	0.033552		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	30	88	0.033938		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	40	87	0.033552		PASS
Band41	20MHz	QPSK	40620	E-TM1.1	120	50	86	0.033166		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-30	95	0.035448		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-20	93	0.034701		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	-10	94	0.035075		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	0	94	0.035075		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	10	95	0.035448		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	20	95	0.035448		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	30	93	0.034701		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	40	94	0.035075		PASS
Band41	20MHz	QPSK	41490	E-TM1.1	120	50	94	0.035075		PASS

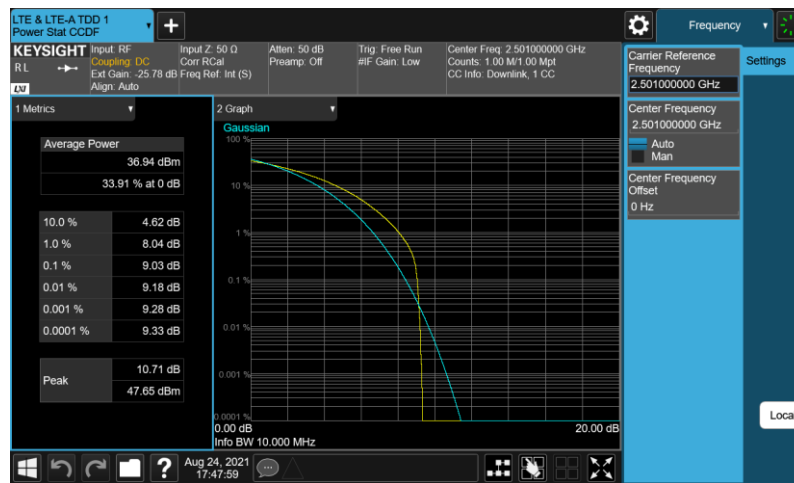
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

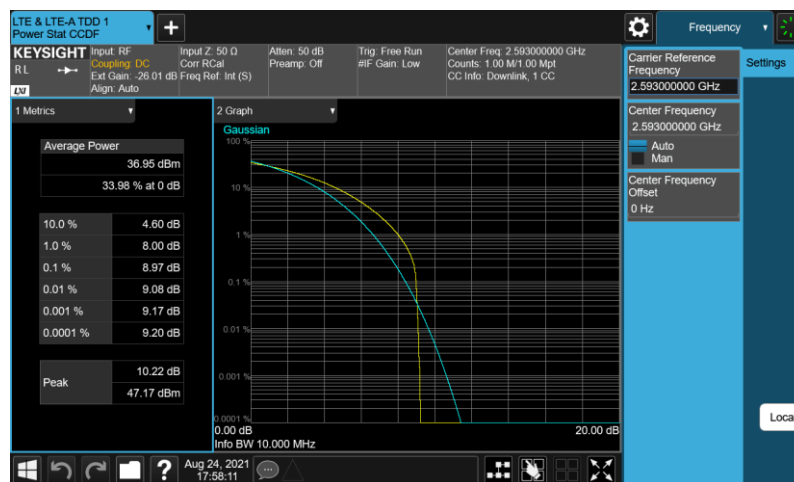
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band41	10MHz	256QAM	39700	E-TM3.1A	9.03
Band41	10MHz	256QAM	40620	E-TM3.1A	8.97
Band41	10MHz	256QAM	41540	E-TM3.1A	9.04
Band41	10MHz	QPSK	39700	E-TM1.1	9.03
Band41	10MHz	QPSK	40620	E-TM1.1	8.86
Band41	10MHz	QPSK	41540	E-TM1.1	8.88
Band41	20MHz	256QAM	39750	E-TM3.1A	9.39
Band41	20MHz	256QAM	40620	E-TM3.1A	8.97
Band41	20MHz	256QAM	41490	E-TM3.1A	9.44
Band41	20MHz	QPSK	39750	E-TM1.1	9.01
Band41	20MHz	QPSK	40620	E-TM1.1	8.79
Band41	20MHz	QPSK	41490	E-TM1.1	9.65

Test Graphs

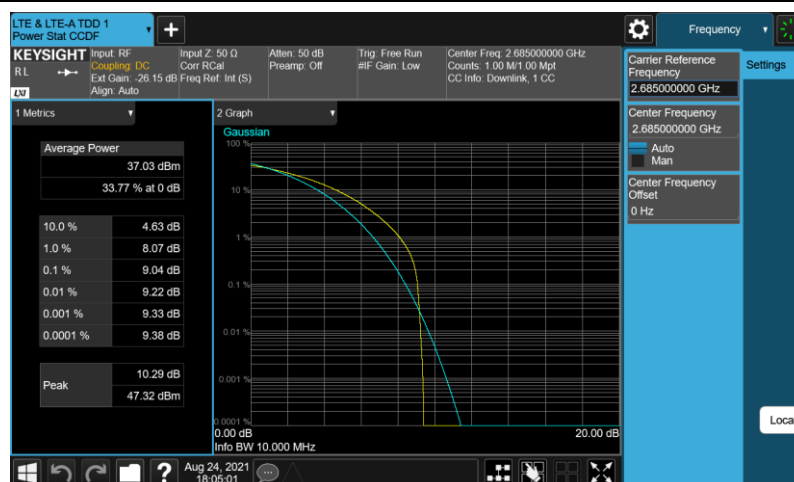
Band41-10MHz-256QAM-39700-E-TM3.1A



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



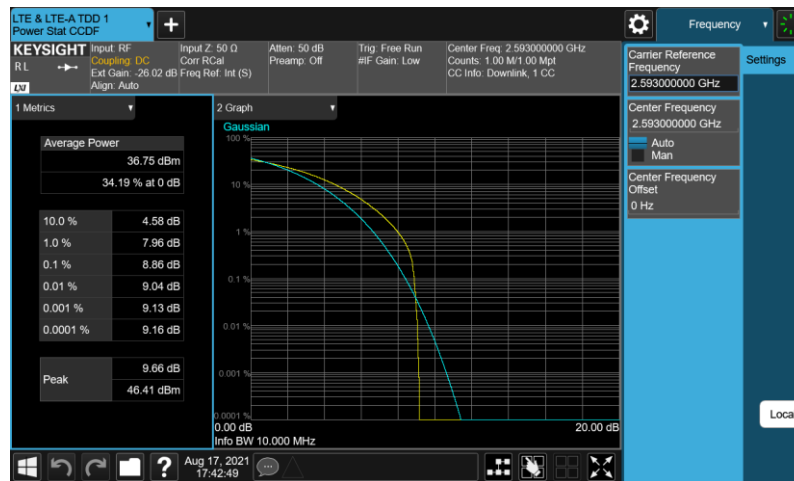
Band41-10MHz-256QAM-41540-E-TM3.1A



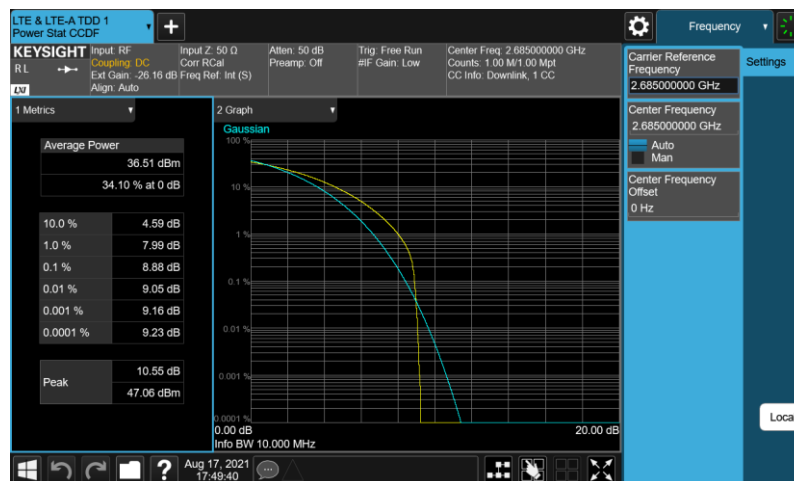
Band41-10MHz-QPSK-39700-E-TM1.1



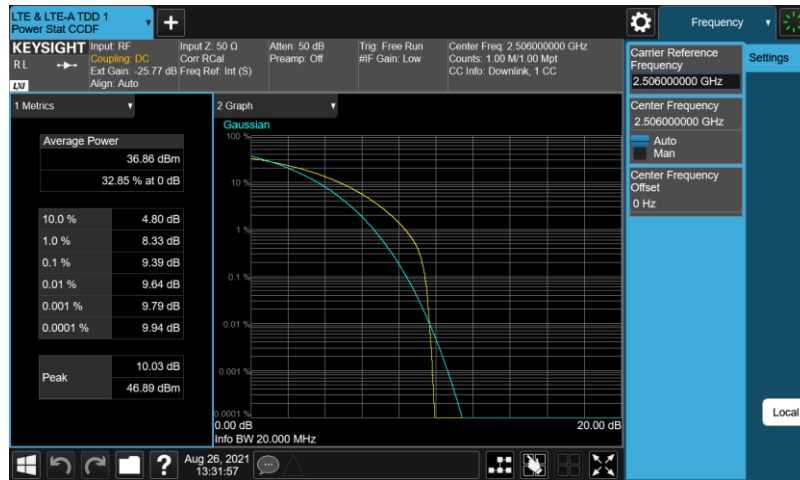
Band41-10MHz-QPSK-40620-E-TM1.1



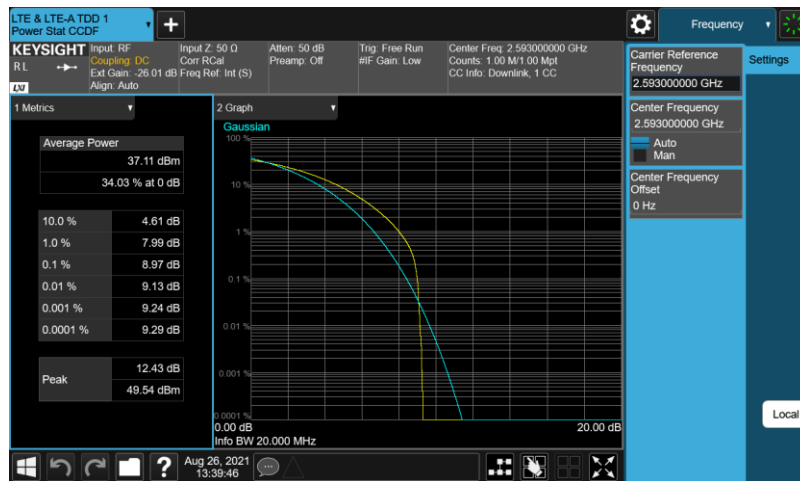
Band41-10MHz-QPSK-41540-E-TM1.1



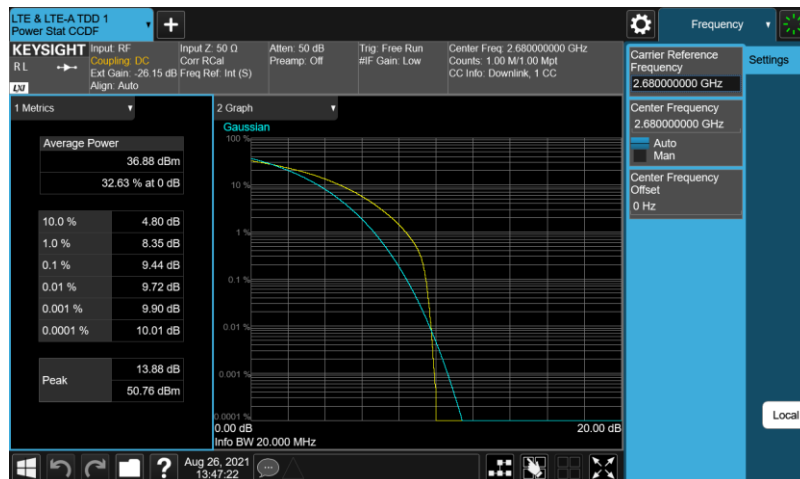
Band41-20MHz-256QAM-39750-E-TM3.1A



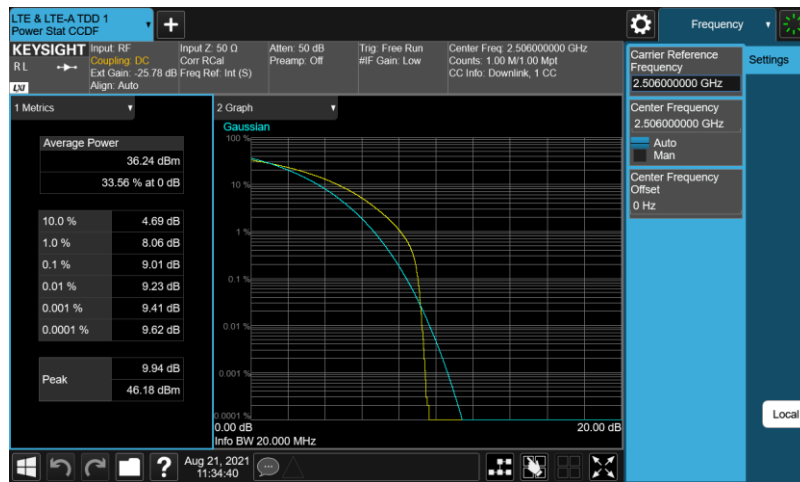
Band41-20MHz-256QAM-40620-E-TM3.1A



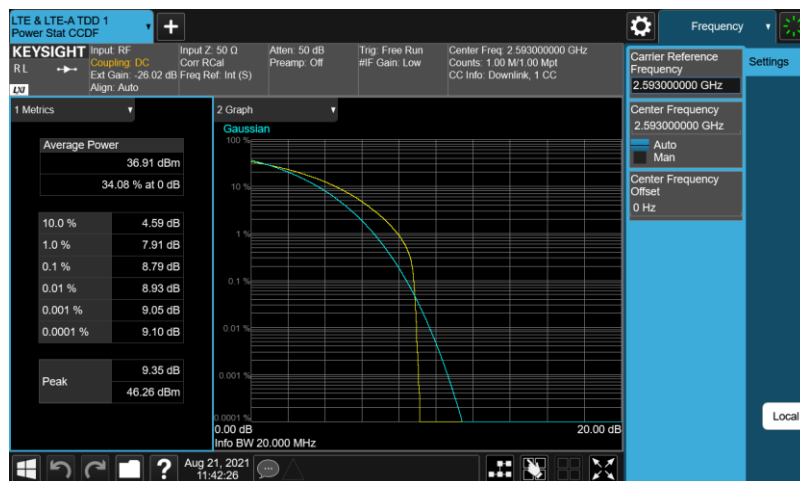
Band41-20MHz-256QAM-41490-E-TM3.1A



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



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

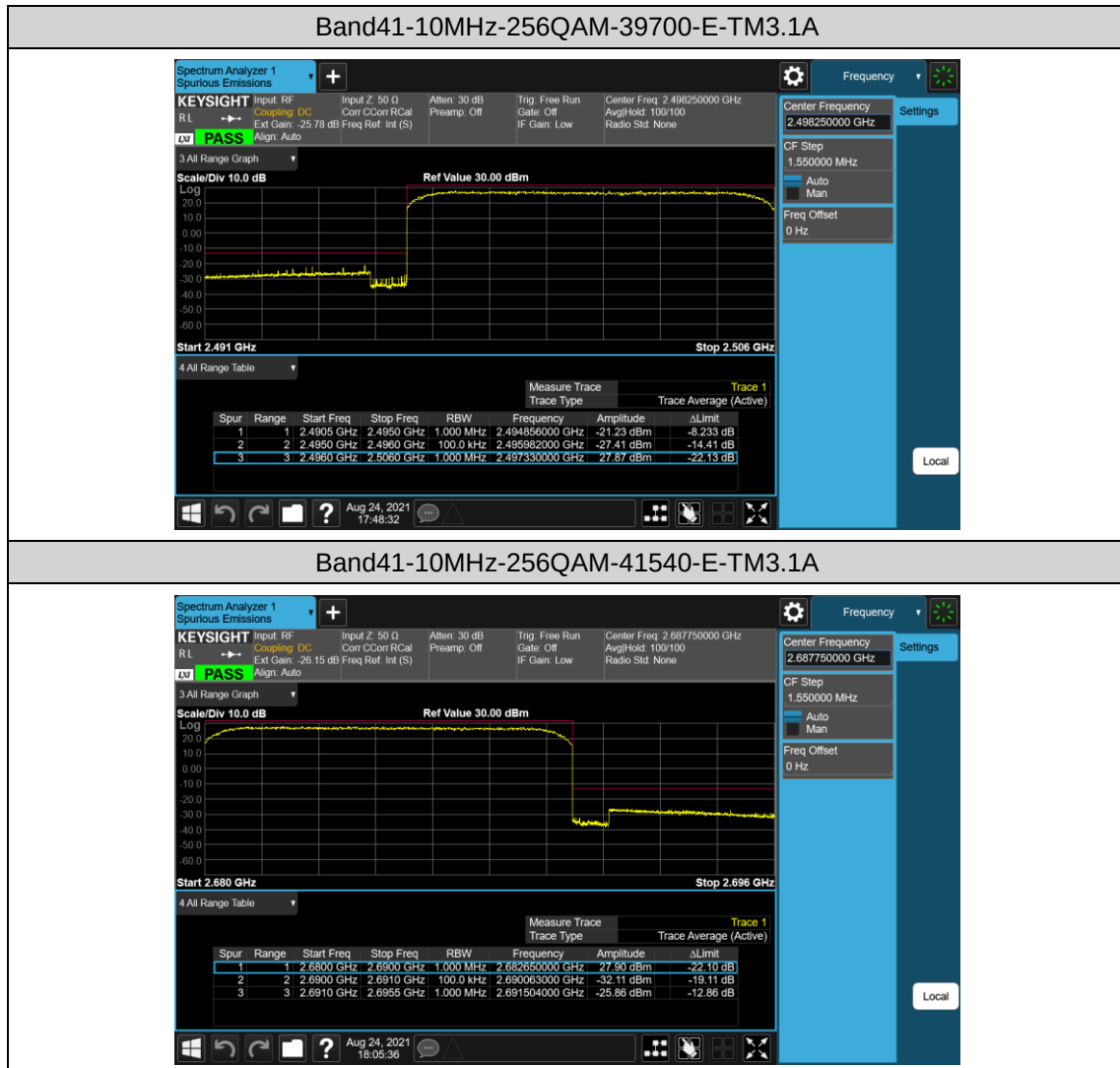


Band41-20MHz-QPSK-41490-E-TM1.1

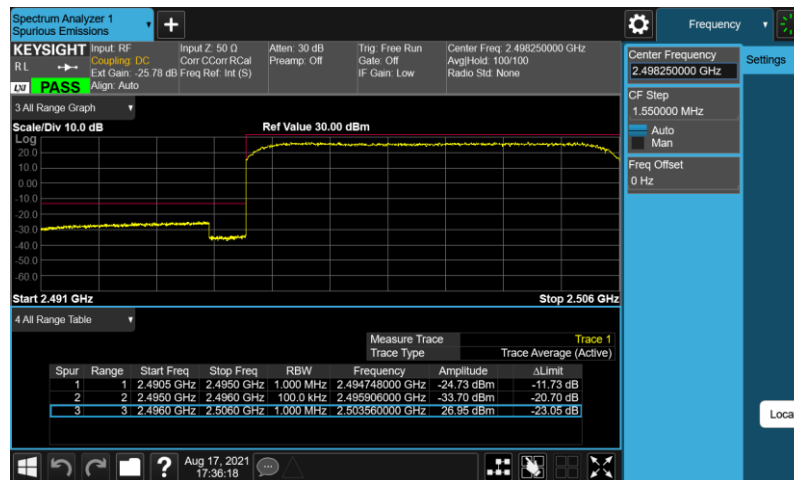


Appendix F: Band Edge

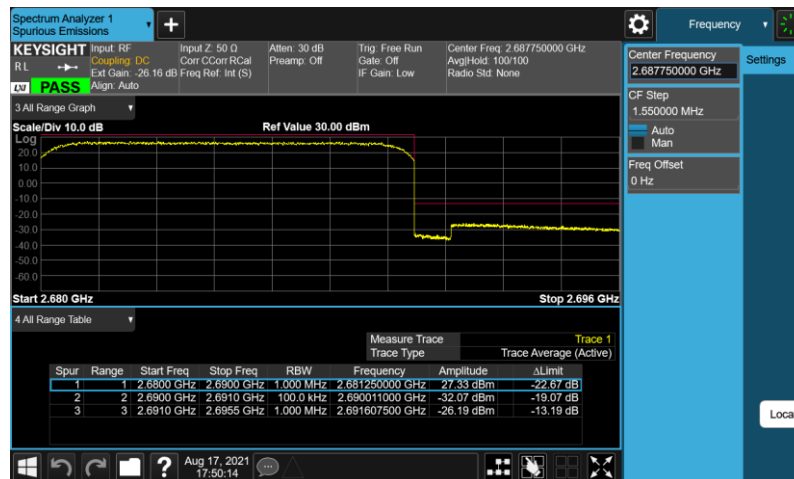
Test Graphs



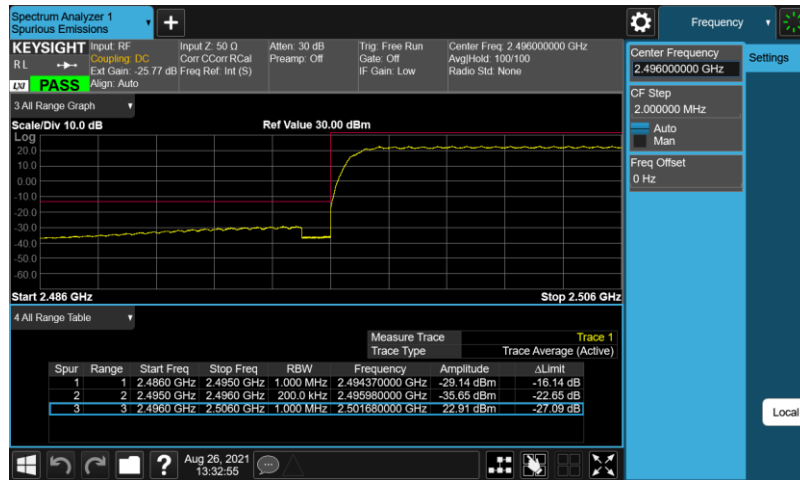
Band41-10MHz-QPSK-39700-E-TM1.1



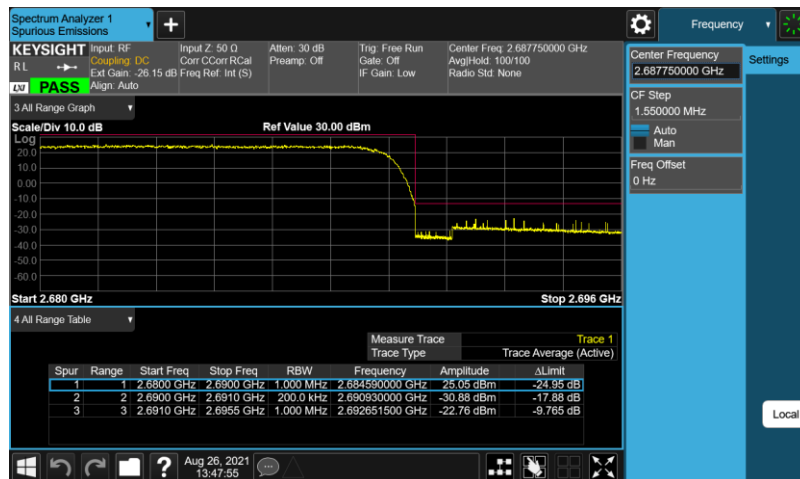
Band41-10MHz-QPSK-41540-E-TM1.1



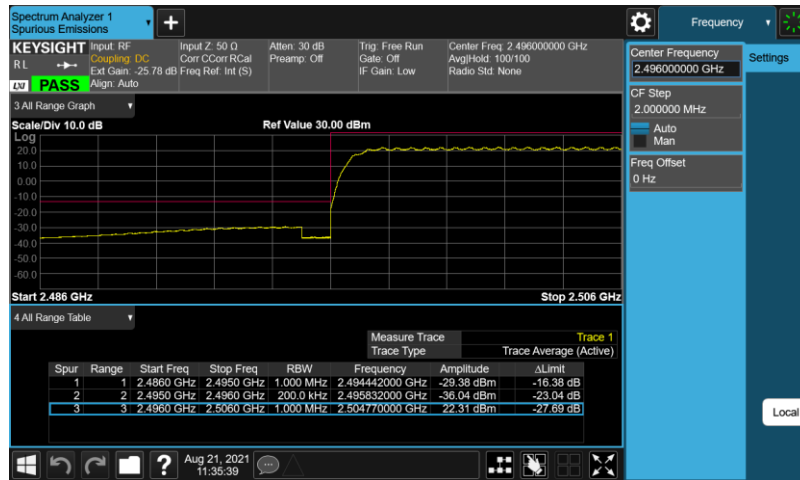
Band41-20MHz-256QAM-39750-E-TM3.1A



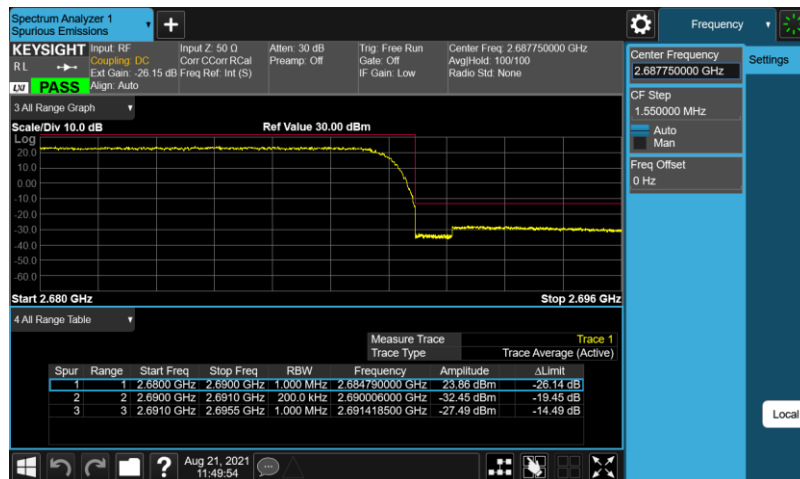
Band41-20MHz-256QAM-41490-E-TM3.1A



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



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



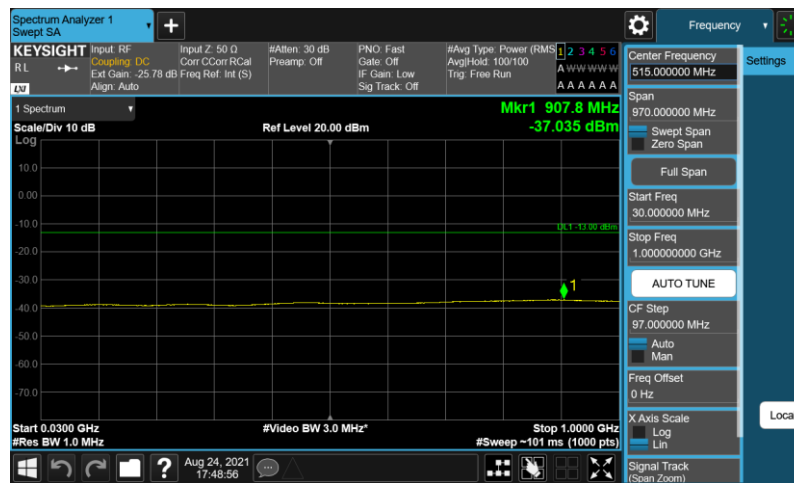
Appendix G: Conducted Spurious Emission

Test Result

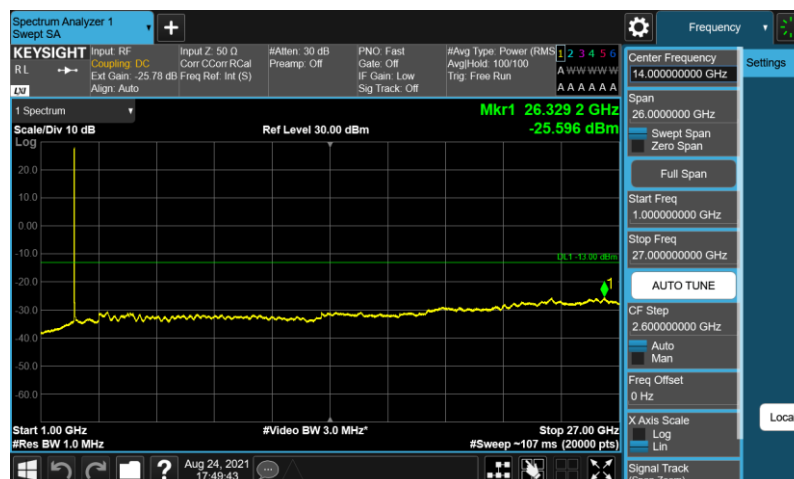
Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band41	10MHz	256QAM	39700	E-TM3.1A	30~1000	-37.04	PASS
Band41	10MHz	256QAM	39700	E-TM3.1A	1000~27000	-25.60	PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	30~1000	-36.83	PASS
Band41	10MHz	256QAM	40620	E-TM3.1A	1000~27000	-25.43	PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	30~1000	-36.69	PASS
Band41	10MHz	256QAM	41540	E-TM3.1A	1000~27000	-25.31	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	30~1000	-37.11	PASS
Band41	10MHz	QPSK	39700	E-TM1.1	1000~27000	-25.64	PASS
Band41	10MHz	QPSK	40620	E-TM1.1	30~1000	-36.82	PASS
Band41	10MHz	QPSK	40620	E-TM1.1	1000~27000	-25.48	PASS
Band41	10MHz	QPSK	41540	E-TM1.1	30~1000	-36.71	PASS
Band41	10MHz	QPSK	41540	E-TM1.1	1000~27000	-25.19	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	30~1000	-37.07	PASS
Band41	20MHz	256QAM	39750	E-TM3.1A	1000~27000	-25.68	PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	30~1000	-36.84	PASS
Band41	20MHz	256QAM	40620	E-TM3.1A	1000~27000	-25.48	PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	30~1000	-36.71	PASS
Band41	20MHz	256QAM	41490	E-TM3.1A	1000~27000	-25	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	30~1000	-36.98	PASS
Band41	20MHz	QPSK	39750	E-TM1.1	1000~27000	-25.48	PASS
Band41	20MHz	QPSK	40620	E-TM1.1	30~1000	-36.73	PASS
Band41	20MHz	QPSK	40620	E-TM1.1	1000~27000	-25.22	PASS
Band41	20MHz	QPSK	41490	E-TM1.1	30~1000	-36.59	PASS
Band41	20MHz	QPSK	41490	E-TM1.1	1000~27000	-25.25	PASS

Test Graphs

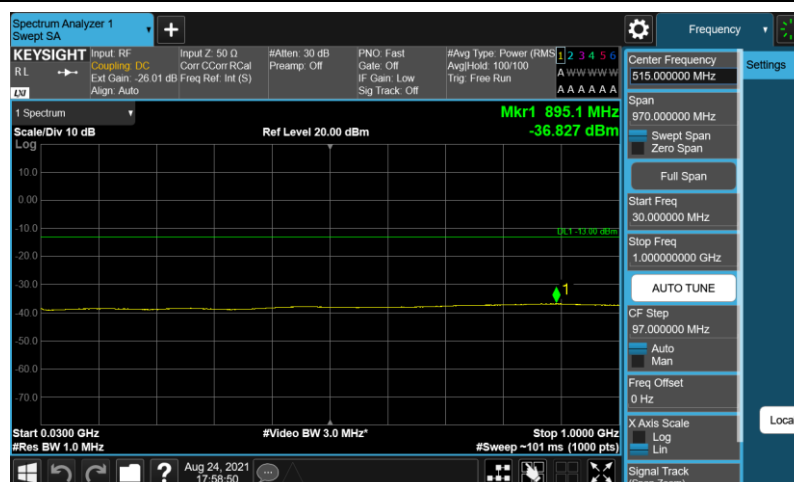
Band41-10MHz-256QAM-39700-E-TM3.1A-30~1000



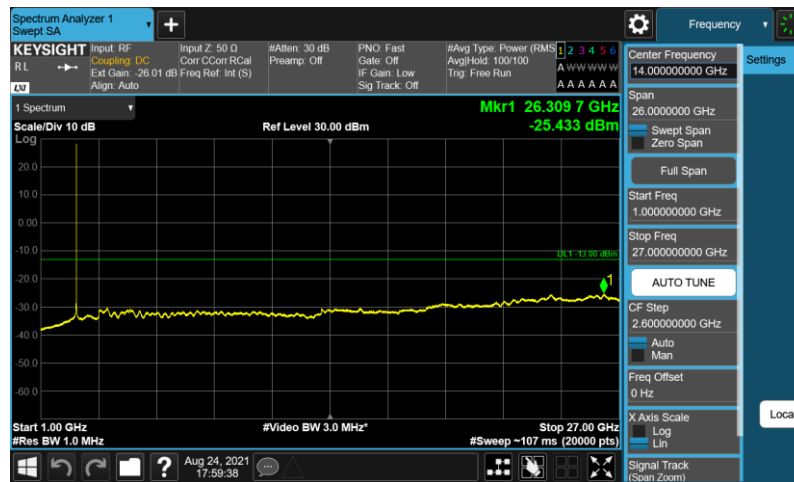
Band41-10MHz-256QAM-39700-E-TM3.1A-1000~27000



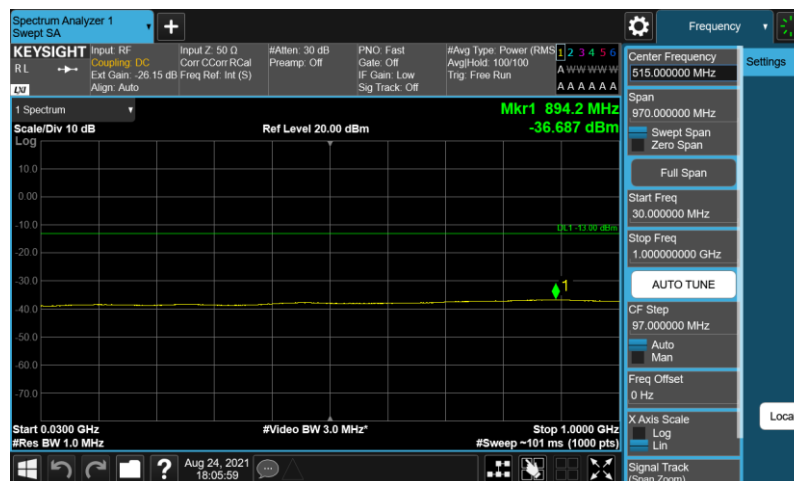
Band41-10MHz-256QAM-40620-E-TM3.1A-30~1000



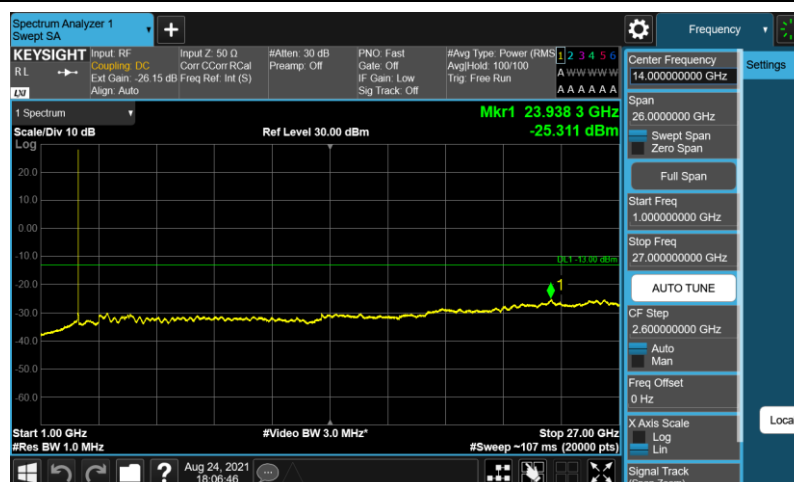
Band41-10MHz-256QAM-40620-E-TM3.1A-1000~27000



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



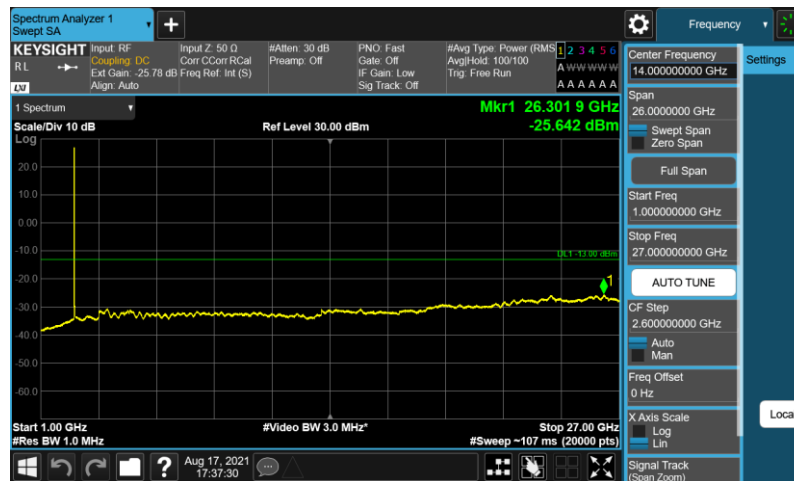
Band41-10MHz-256QAM-41540-E-TM3.1A-1000~27000



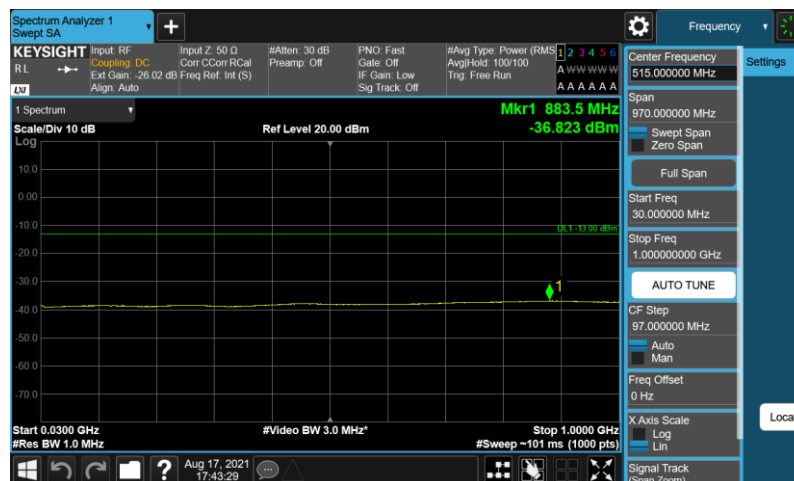
Band41-10MHz-QPSK-39700-E-TM1.1-30~1000



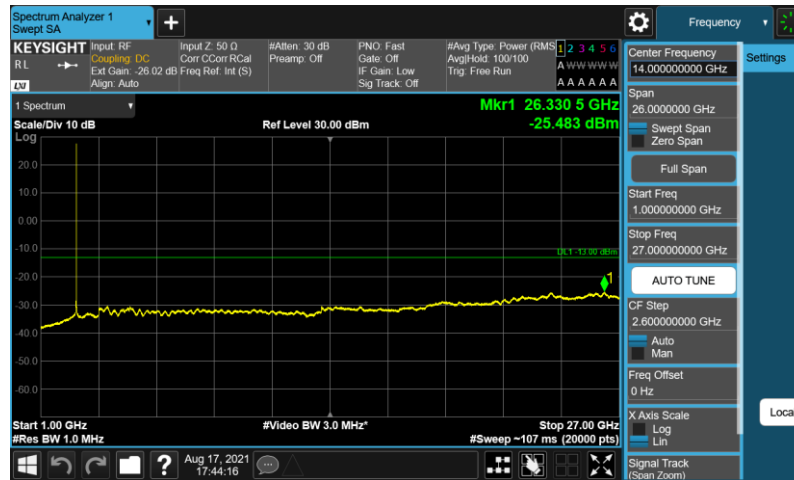
Band41-10MHz-QPSK-39700-E-TM1.1-1000~27000



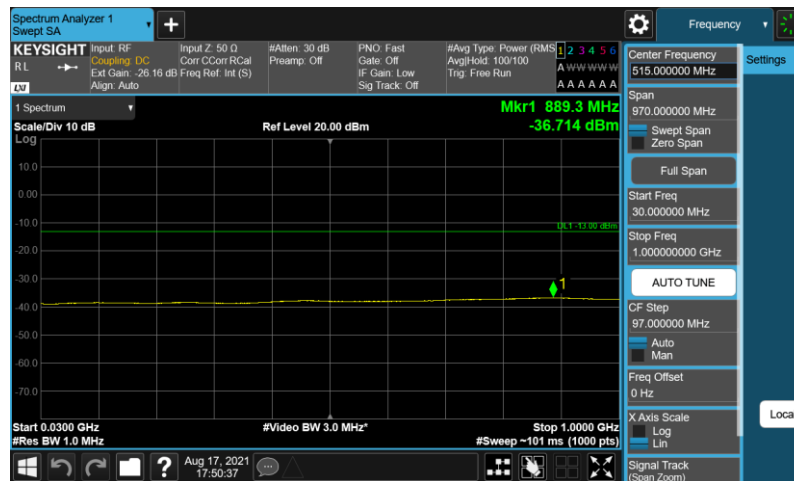
Band41-10MHz-QPSK-40620-E-TM1.1-30~1000



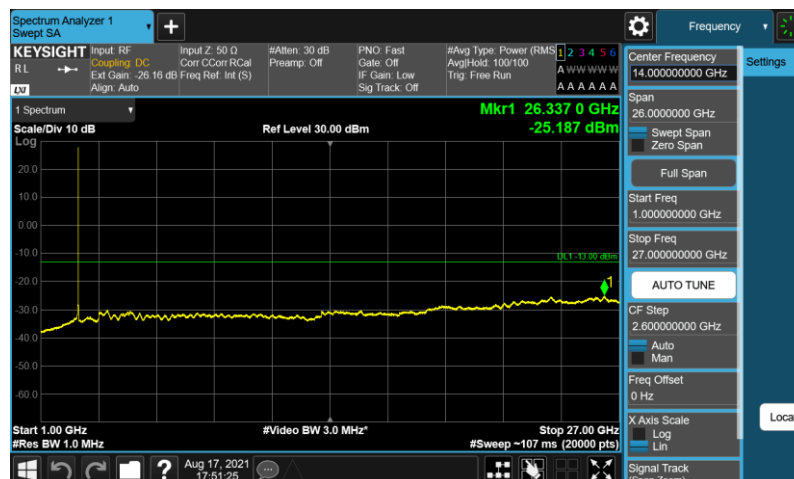
Band41-10MHz-QPSK-40620-E-TM1.1-1000~27000



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



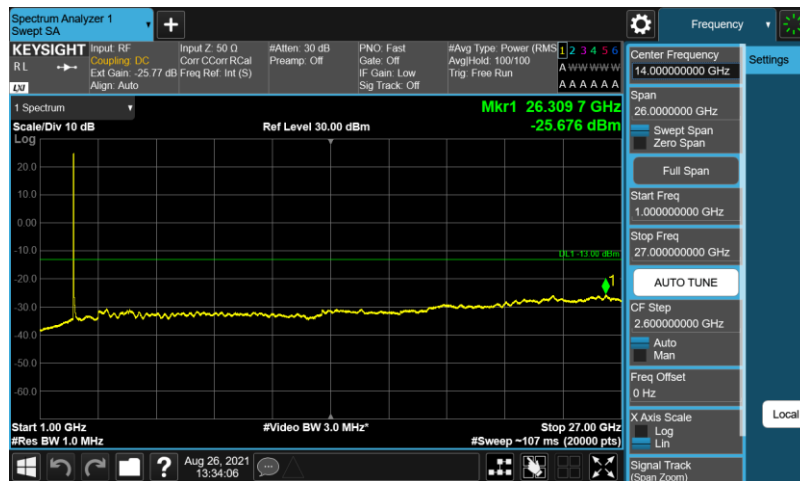
Band41-10MHz-QPSK-41540-E-TM1.1-1000~27000



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



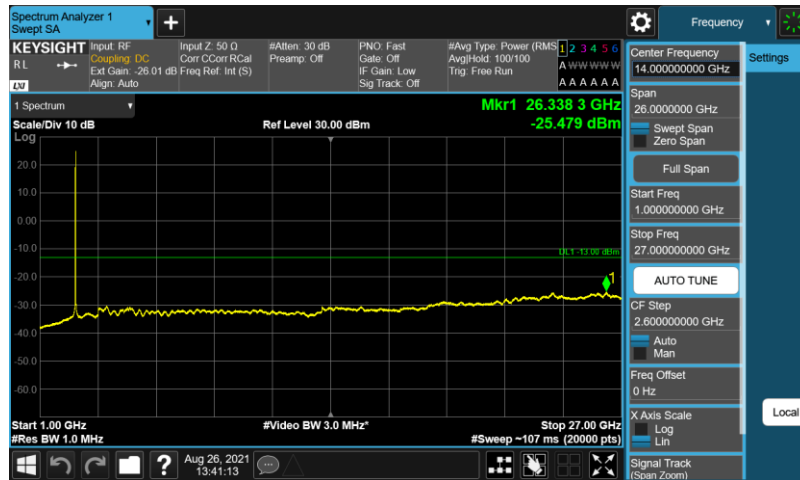
Band41-20MHz-256QAM-39750-E-TM3.1A-1000~27000



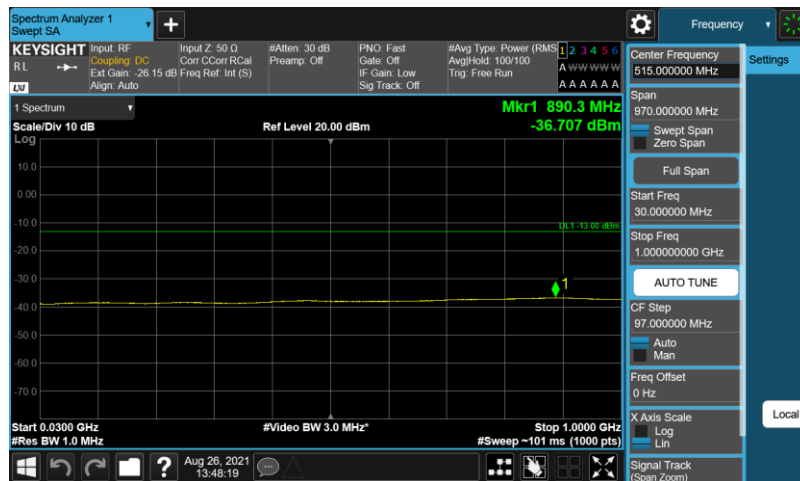
Band41-20MHz-256QAM-40620-E-TM3.1A-30~1000



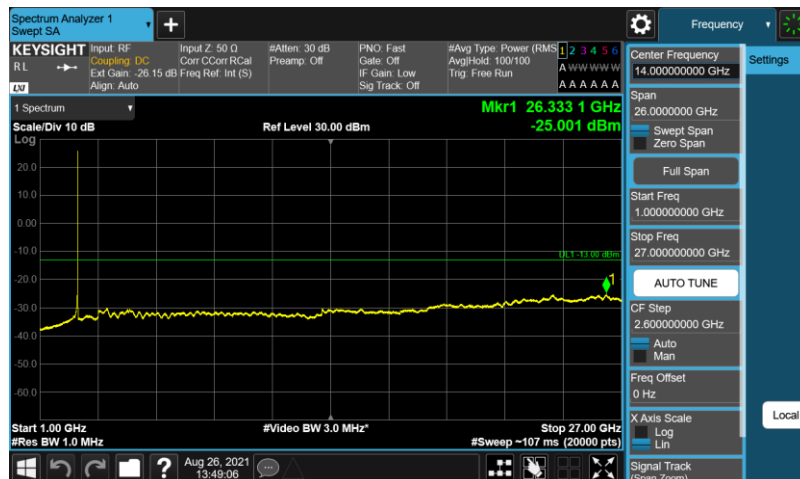
Band41-20MHz-256QAM-40620-E-TM3.1A-1000~27000



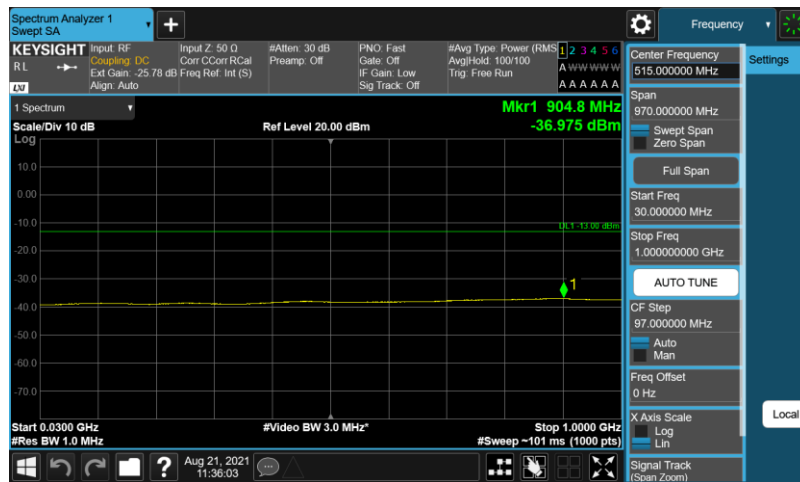
Band41-20MHz-256QAM-41490-E-TM3.1A-30~1000



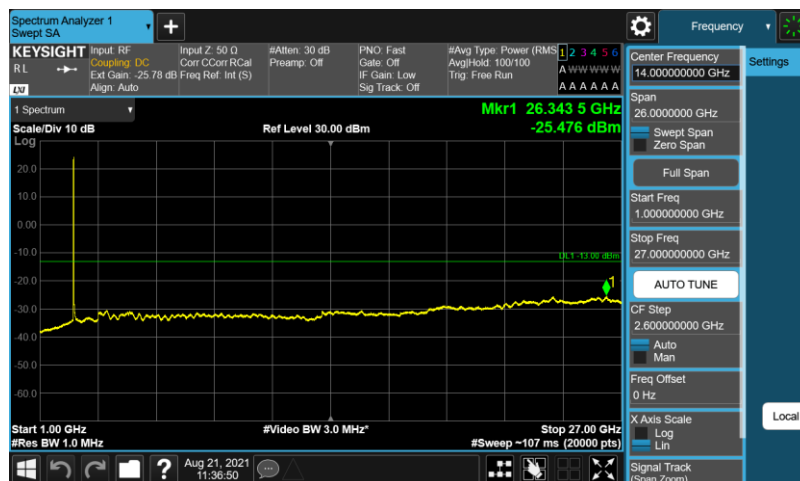
Band41-20MHz-256QAM-41490-E-TM3.1A-1000~27000



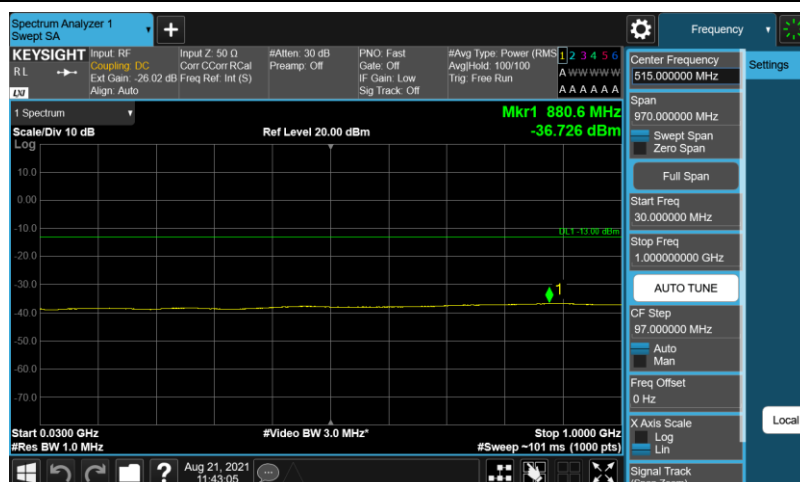
Band41-20MHz-QPSK-39750-E-TM1.1-30~1000



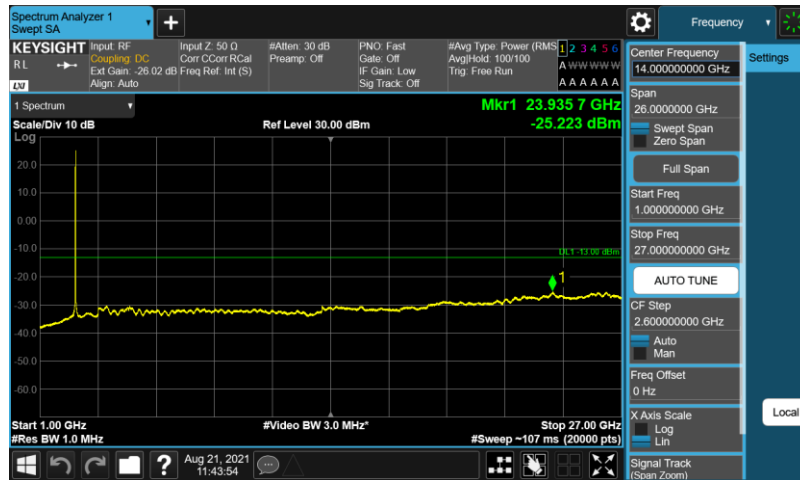
Band41-20MHz-QPSK-39750-E-TM1.1-1000~27000



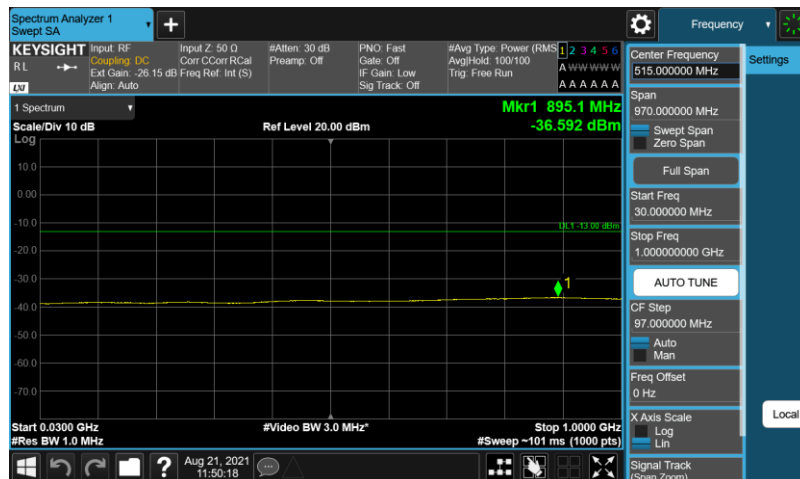
Band41-20MHz-QPSK-40620-E-TM1.1-30~1000



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

