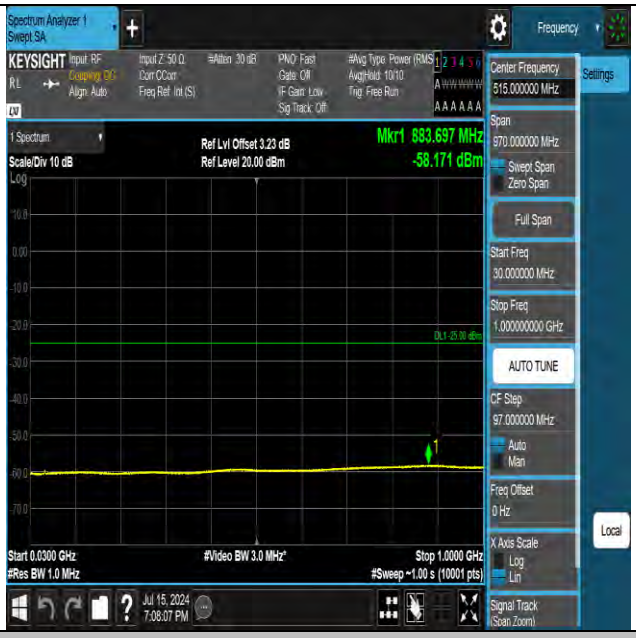
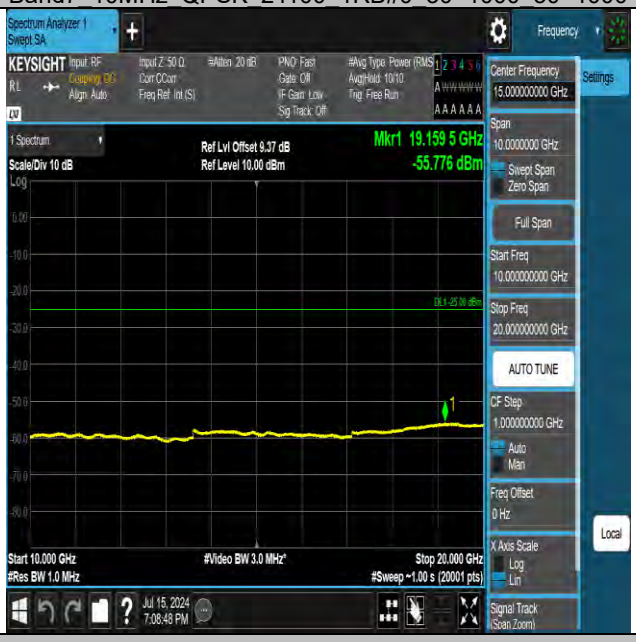


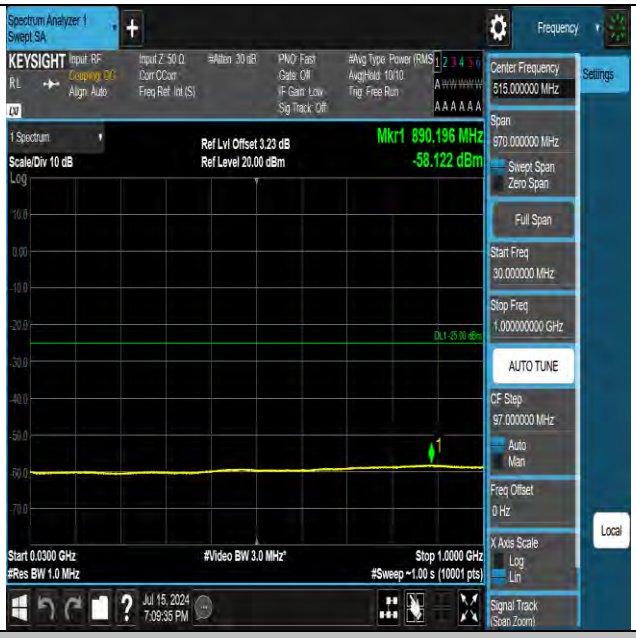
Band7_10MHz_QPSK_21100_1RB#0_30~1000_30~1000

Band7_10MHz_QPSK_21100_1RB#0_1000~10000_1000~10000



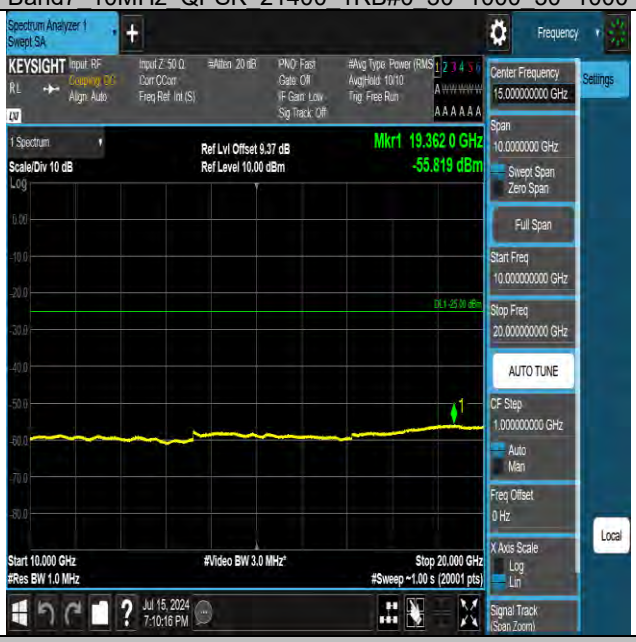
Band7_10MHz_QPSK_21100_1RB#0_10000~20000_10000~20000

Band7_10MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



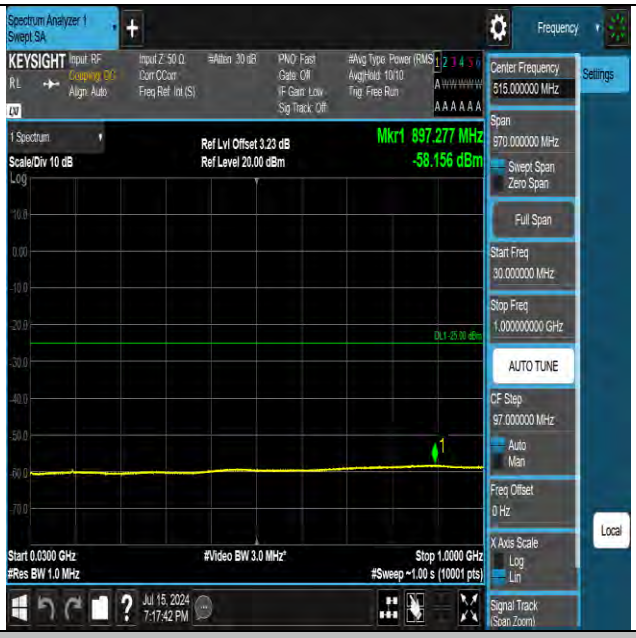
Band7_10MHz_QPSK_21400_1RB#0_30~1000_30~1000

Band7_10MHz_QPSK_21400_1RB#0_1000~10000_1000~10000



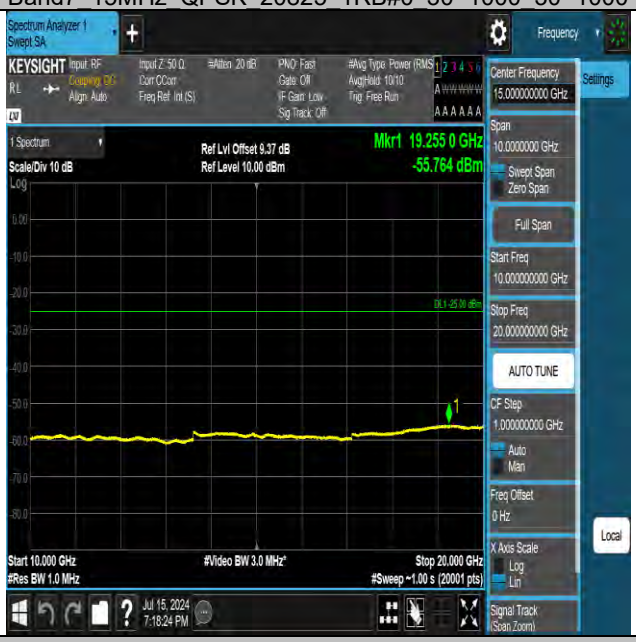
Band7_10MHz_QPSK_21400_1RB#0_10000~20000_10000~20000

Band7_10MHz_QPSK_21400_1RB#0_20000~27000_20000~27000



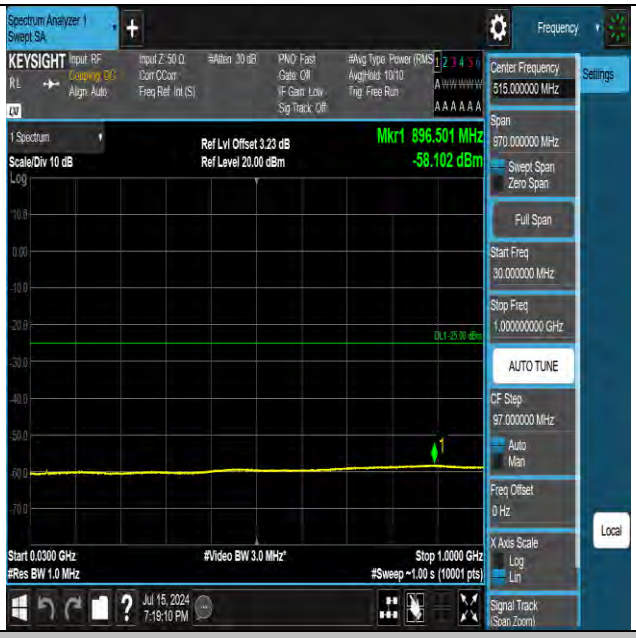
Band7_15MHz_QPSK_20825_1RB#0_30~1000_30~1000

Band7_15MHz_QPSK_20825_1RB#0_1000~10000_1000~10000



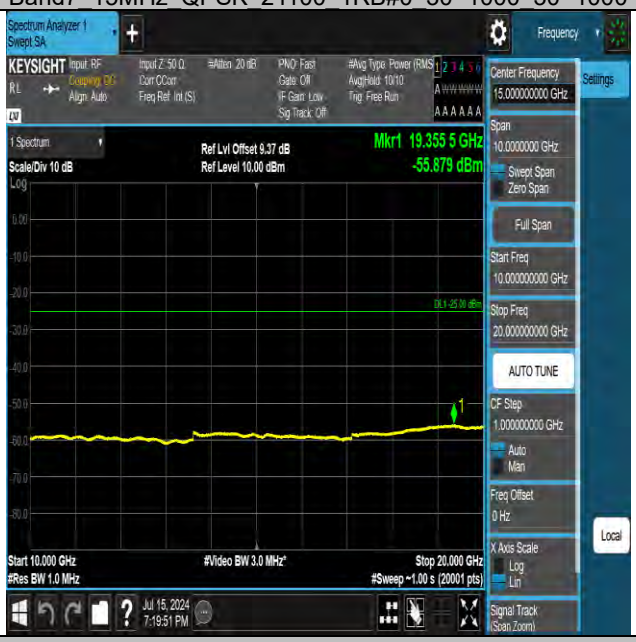
Band7_15MHz_QPSK_20825_1RB#0_10000~20000_10000~20000

Band7_15MHz_QPSK_20825_1RB#0_20000~27000_20000~27000



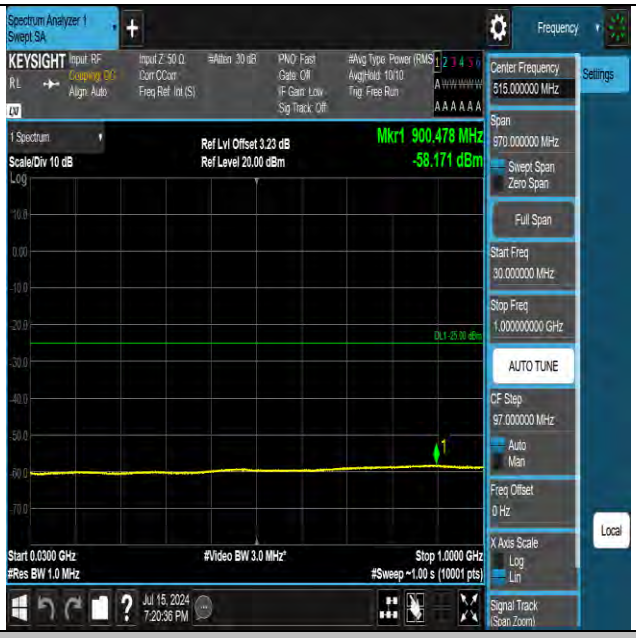
Band7_15MHz_QPSK_21100_1RB#0_30~1000_30~1000

Band7_15MHz_QPSK_21100_1RB#0_1000~10000_1000~10000



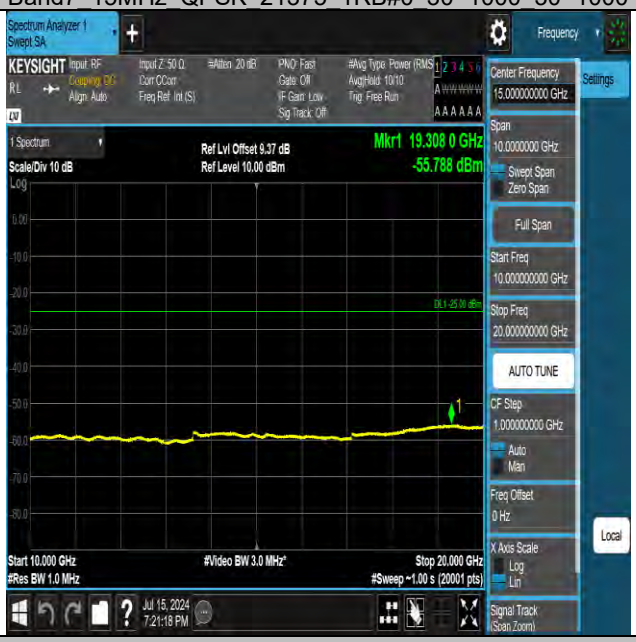
Band7_15MHz_QPSK_21100_1RB#0_10000~20000_10000~20000

Band7_15MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



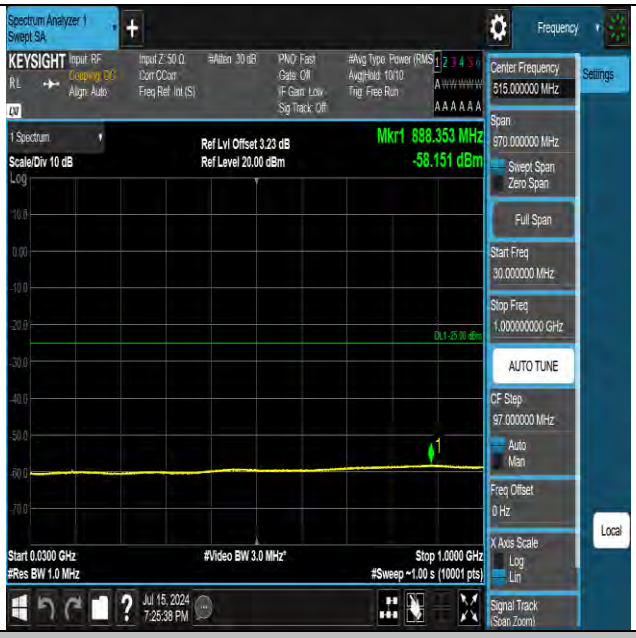
Band7_15MHz_QPSK_21375_1RB#0_30~1000_30~1000

Band7_15MHz_QPSK_21375_1RB#0_1000~10000_1000~10000



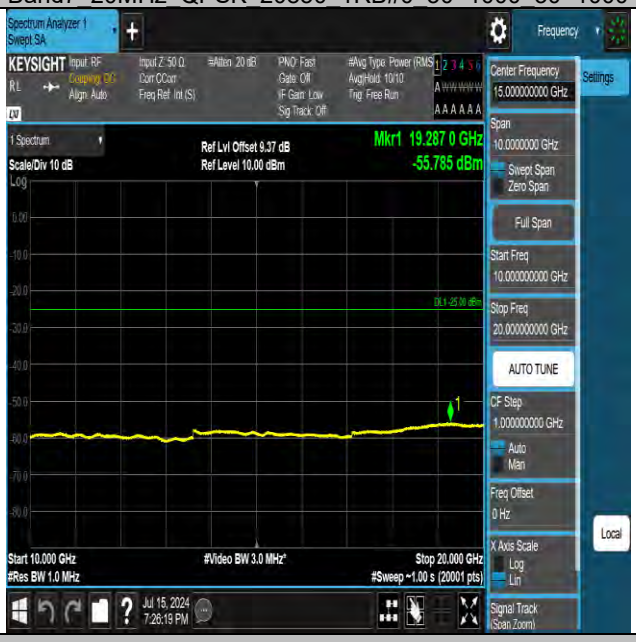
Band7_15MHz_QPSK_21375_1RB#0_10000~20000_10000~20000

Band7_15MHz_QPSK_21375_1RB#0_20000~27000_20000~27000



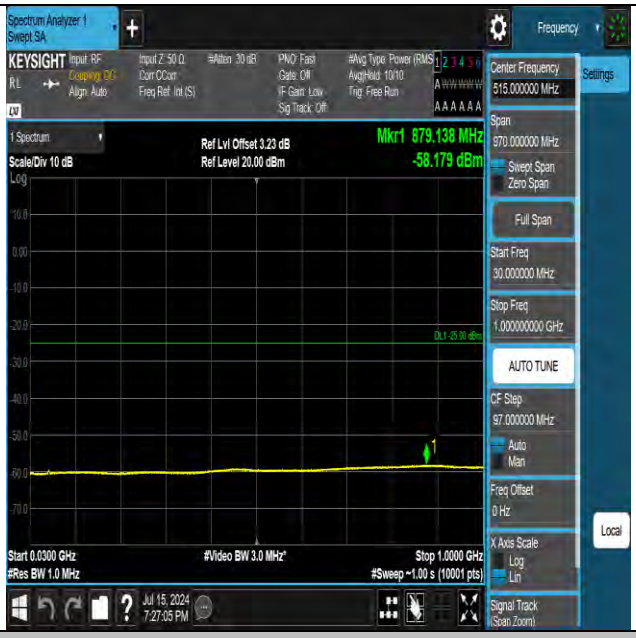
Band7_20MHz_QPSK_20850_1RB#0_30~1000_30~1000

Band7_20MHz_QPSK_20850_1RB#0_1000~10000_1000~10000



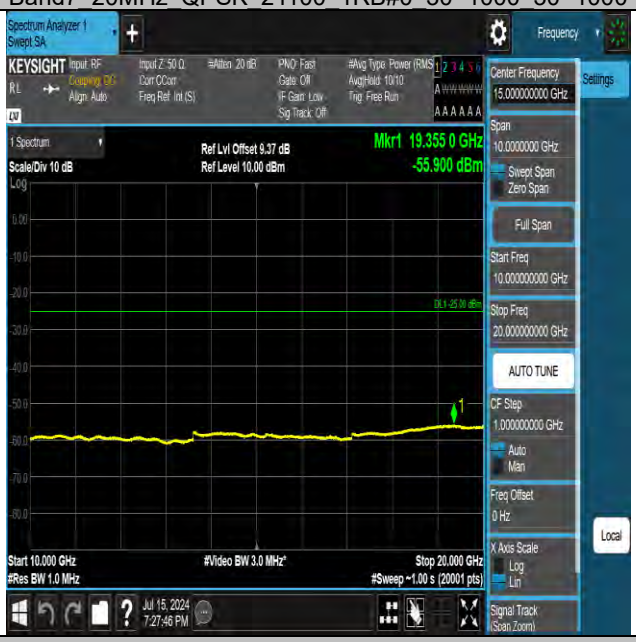
Band7_20MHz_QPSK_20850_1RB#0_10000~20000_10000~20000

Band7_20MHz_QPSK_20850_1RB#0_20000~27000_20000~27000



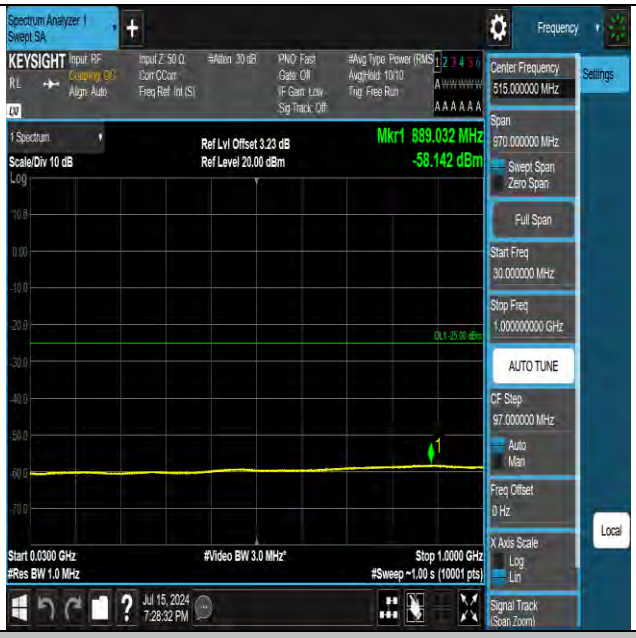
Band7_20MHz_QPSK_21100_1RB#0_30~1000_30~1000

Band7_20MHz_QPSK_21100_1RB#0_1000~10000_1000~10000



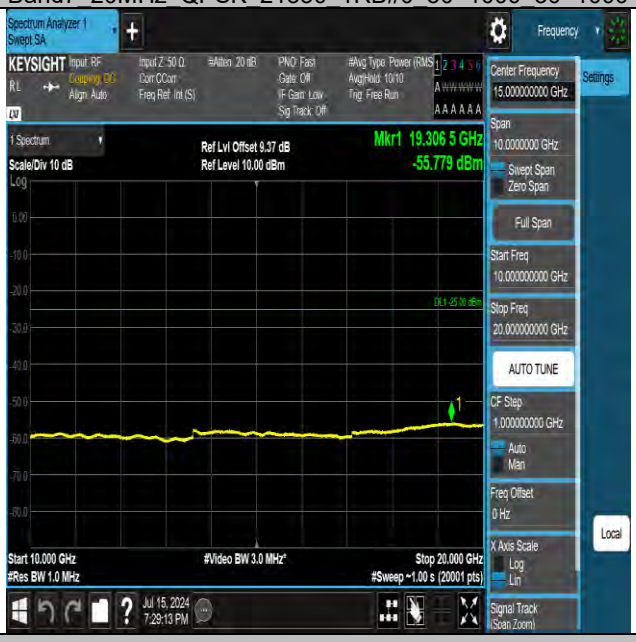
Band7_20MHz_QPSK_21100_1RB#0_10000~20000_10000~20000

Band7_20MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



Band7_20MHz_QPSK_21350_1RB#0_30~1000_30~1000

Band7_20MHz_QPSK_21350_1RB#0_1000~10000_1000~10000



Band7_20MHz_QPSK_21350_1RB#0_10000~20000_10000~20000

Band7_20MHz_QPSK_21350_1RB#0_20000~27000_20000~27000

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band7	10MHz	QPSK	20800	50RB #0	VN	NT	-5.95	-0.002375	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	VL	NT	8.07	0.003222	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	VH	NT	6.58	0.002627	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	VN	NT	-6.29	-0.002452	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	VL	NT	-9.90	-0.003860	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	VH	NT	-6.52	-0.002542	---	---	---	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band7	10MHz	QPSK	20800	50RB #0	NV	-30	5.12	0.002044	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	-20	6.25	0.002495	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	-10	10.59	0.004228	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	0	-5.79	-0.002311	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	10	4.39	0.001752	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	20	5.65	0.002255	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	30	-7.75	-0.003094	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	40	7.04	0.002810	---	---	---	PASS
Band7	10MHz	QPSK	20800	50RB #0	NV	50	-5.11	-0.002040	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	-30	-4.12	-0.001606	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	-20	7.84	0.003057	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	-10	-6.85	-0.002671	---	---	---	PASS
Band7	10MH	QPSK	21400	50RB	NV	0	5.14	0.002	---	---	---	PASS

	z			#0				004				
Band7	10MHz	QPSK	21400	50RB #0	NV	10	4.51	0.001758	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	20	-7.64	-0.002979	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	30	4.55	0.001774	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	40	7.00	0.002729	---	---	---	PASS
Band7	10MHz	QPSK	21400	50RB #0	NV	50	5.56	0.002168	---	---	---	PASS

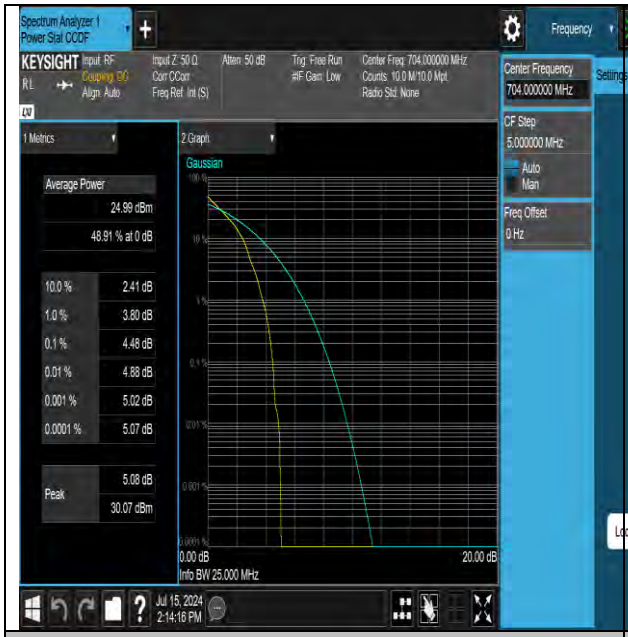
LTE BAND 12(INDCLUDING LTE BAND17)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	4.48	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.11	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.53	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.04	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.60	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.08	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.48	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.91	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.55	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.86	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.63	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.87	13	PASS

Test Graphs



Band12-10MHz-QPSK-23060-1RB#0-PASS

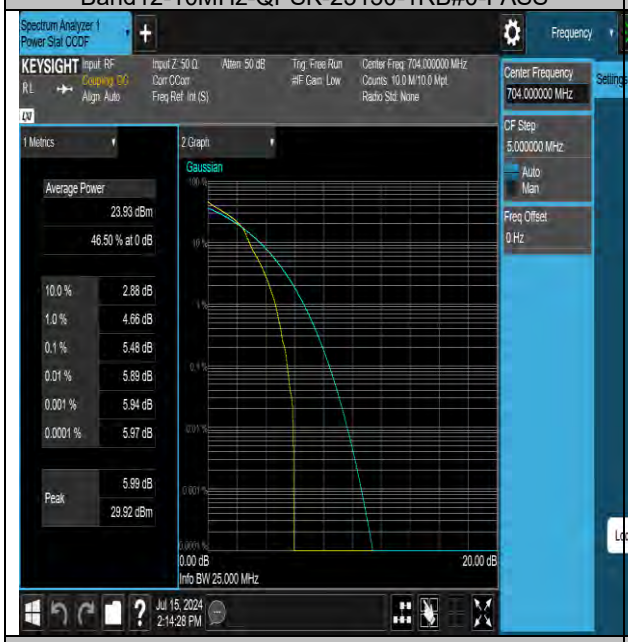
Band12-10MHz-QPSK-23060-50RB#0-PASS

Band12-10MHz-QPSK-23095-1RB#0-PASS

Band12-10MHz-QPSK-23095-50RB#0-PASS

Band12-10MHz-QPSK-23130-1RB#0-PASS

Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-1RB#0-PASS

Band12-10MHz-16QAM-23060-50RB#0-PASS

Band12-10MHz-16QAM-23095-1RB#0-PASS

Band12-10MHz-16QAM-23095-50RB#0-PASS

Band12-10MHz-16QAM-23130-1RB#0-PASS

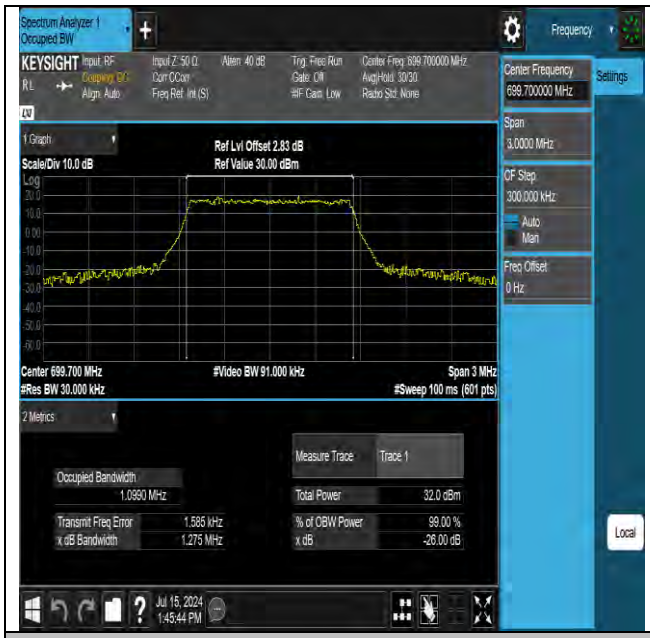
Band12-10MHz-16QAM-23130-50RB#0-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

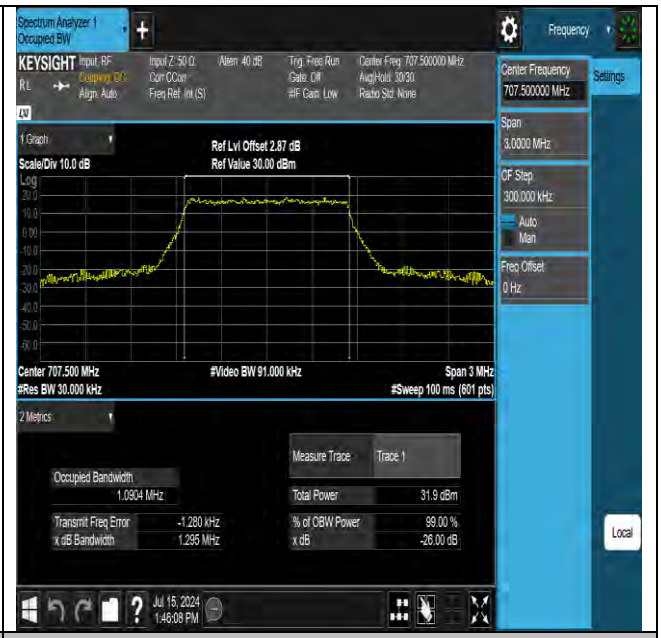
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0990	1.275	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0904	1.295	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0904	1.299	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0960	1.298	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0944	1.306	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0978	1.316	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6885	2.924	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6899	2.919	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6878	2.918	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6849	2.937	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6907	2.936	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6876	2.928	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5065	5.028	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5124	5.021	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5082	5.035	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4973	5.001	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5031	4.994	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4946	4.980	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0102	9.863	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0070	9.866	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0024	9.781	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9829	9.785	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9715	9.779	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9695	9.784	PASS

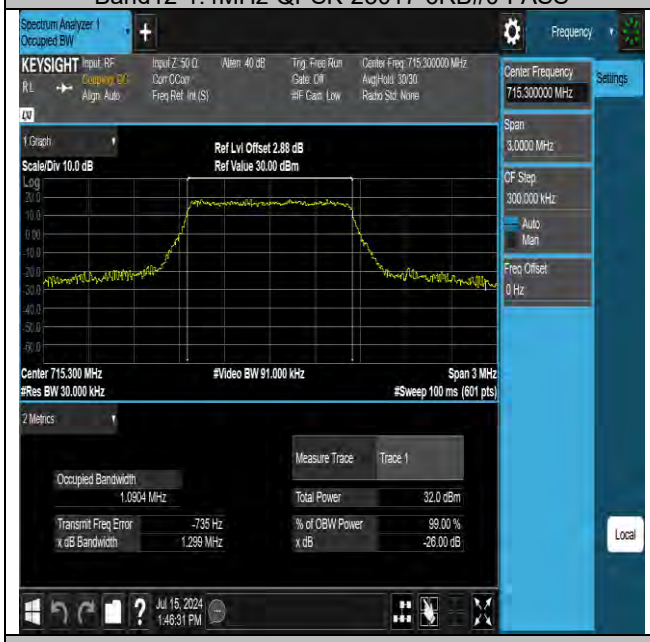
Test Graphs



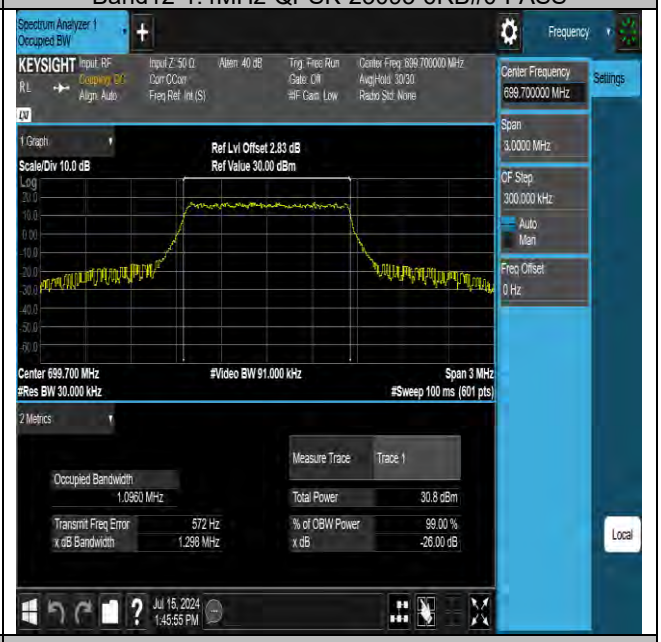
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23017-6RB#0-PASS

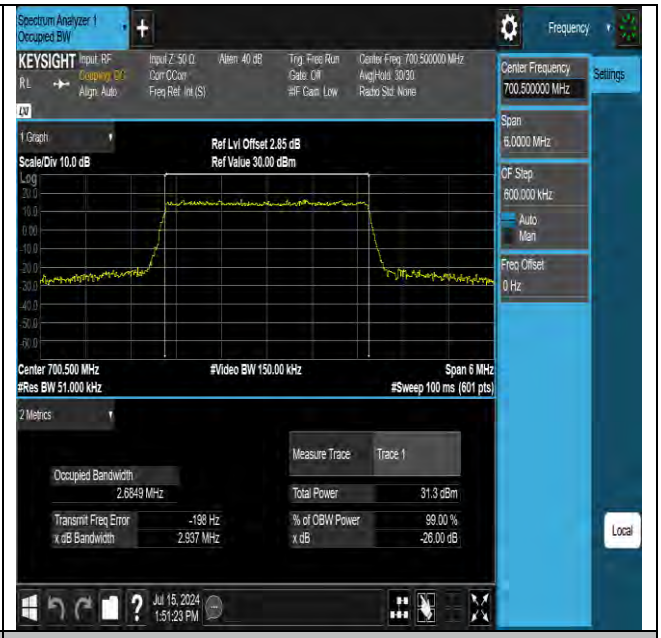
Band12-1.4MHz-16QAM-23095-6RB#0-PASS

Band12-1.4MHz-16QAM-23173-6RB#0-PASS

Band12-3MHz-QPSK-23025-15RB#0-PASS

Band12-3MHz-QPSK-23095-15RB#0-PASS

Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS

Band12-3MHz-16QAM-23095-15RB#0-PASS

Band12-3MHz-16QAM-23165-15RB#0-PASS

Band12-5MHz-QPSK-23035-25RB#0-PASS

Band12-5MHz-QPSK-23095-25RB#0-PASS

Band12-5MHz-QPSK-23155-25RB#0-PASS

Band12-5MHz-16QAM-23035-25RB#0-PASS

Band12-5MHz-16QAM-23095-25RB#0-PASS

Band12-5MHz-16QAM-23155-25RB#0-PASS

Band12-10MHz-QPSK-23060-50RB#0-PASS

Band12-10MHz-QPSK-23095-50RB#0-PASS

Band12-10MHz-QPSK-23130-50RB#0-PASS

Band12-10MHz-16QAM-23060-50RB#0-PASS

Band12-10MHz-16QAM-23095-50RB#0-PASS

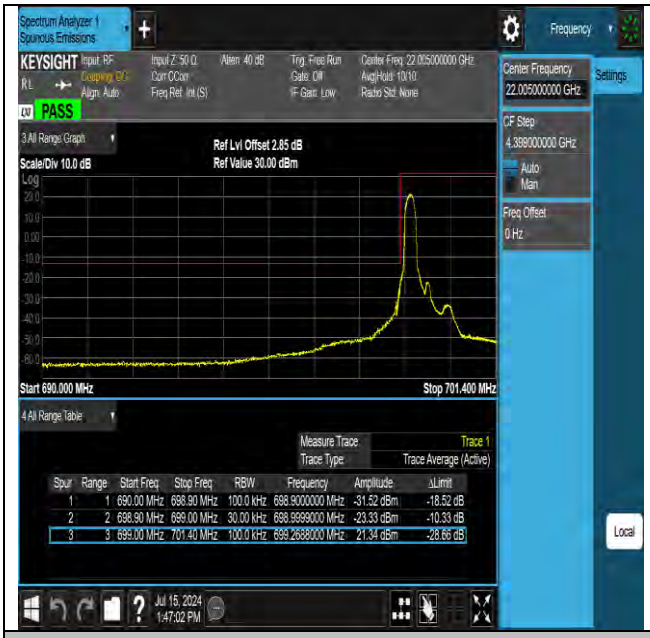
Band12-10MHz-16QAM-23130-50RB#0-PASS

BAND EDGE

Test Result

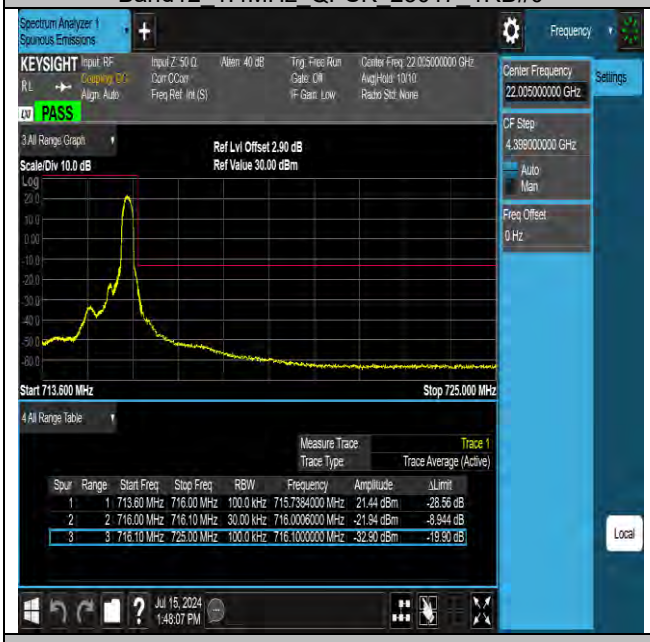
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-23.33	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-27.99	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.94	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-28.42	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-22.88	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-29.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-20.57	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-29.27	PASS
Band12	3MHz	QPSK	23025	1RB#0	-23.02	PASS
Band12	3MHz	QPSK	23025	15RB#0	-32.47	PASS
Band12	3MHz	QPSK	23165	1RB#14	-21.20	PASS
Band12	3MHz	QPSK	23165	15RB#0	-33.14	PASS
Band12	3MHz	16QAM	23025	1RB#0	-24.57	PASS
Band12	3MHz	16QAM	23025	15RB#0	-34.86	PASS
Band12	3MHz	16QAM	23165	1RB#14	-23.64	PASS
Band12	3MHz	16QAM	23165	15RB#0	-34.73	PASS
Band12	5MHz	QPSK	23035	1RB#0	-23.75	PASS
Band12	5MHz	QPSK	23035	25RB#0	-34.21	PASS
Band12	5MHz	QPSK	23155	1RB#24	-22.86	PASS
Band12	5MHz	QPSK	23155	25RB#0	-34.03	PASS
Band12	5MHz	16QAM	23035	1RB#0	-25.72	PASS
Band12	5MHz	16QAM	23035	25RB#0	-35.96	PASS
Band12	5MHz	16QAM	23155	1RB#24	-22.93	PASS
Band12	5MHz	16QAM	23155	25RB#0	-36.85	PASS
Band12	10MHz	QPSK	23060	1RB#0	-30.81	PASS
Band12	10MHz	QPSK	23060	50RB#0	-35.19	PASS
Band12	10MHz	QPSK	23130	1RB#49	-29.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	-37.40	PASS
Band12	10MHz	16QAM	23060	1RB#0	-31.94	PASS
Band12	10MHz	16QAM	23060	50RB#0	-37.79	PASS
Band12	10MHz	16QAM	23130	1RB#49	-31.16	PASS
Band12	10MHz	16QAM	23130	50RB#0	-40.09	PASS

Test Graphs

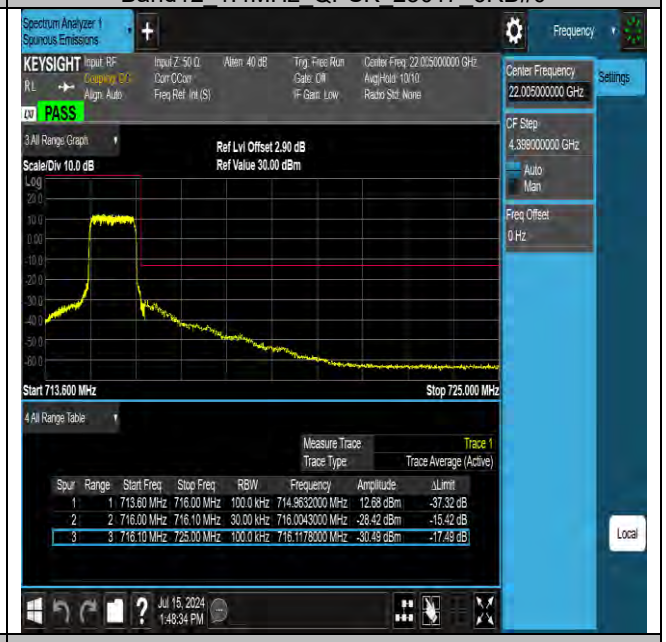


Band12_1.4MHz_QPSK_23017_1RB#0

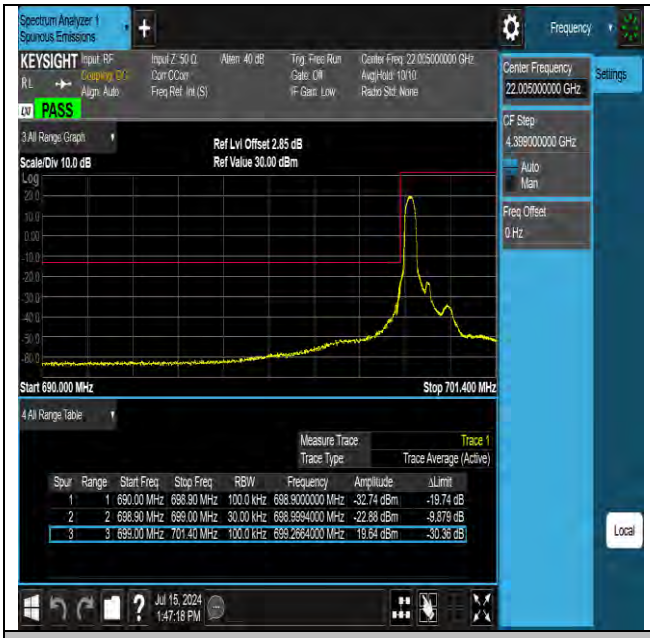
Band12_1.4MHz_QPSK_23017_6RB#0



Band12_1.4MHz_QPSK_23173_1RB#5

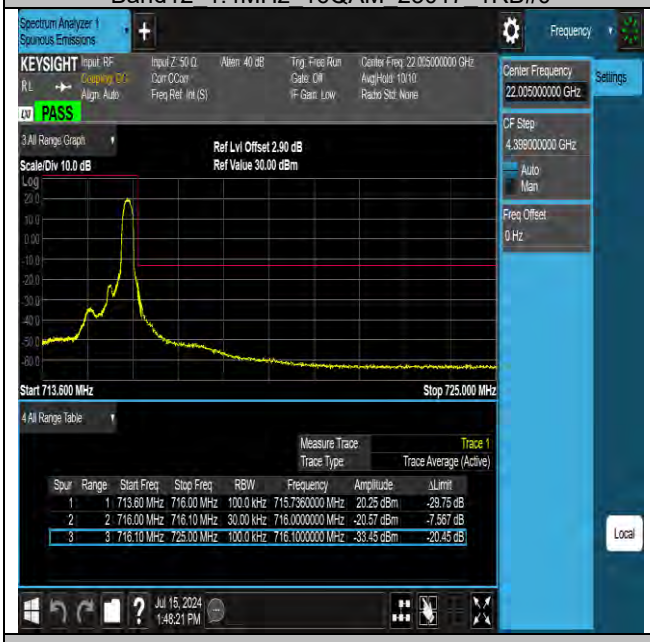


Band12_1.4MHz_QPSK_23173_6RB#0



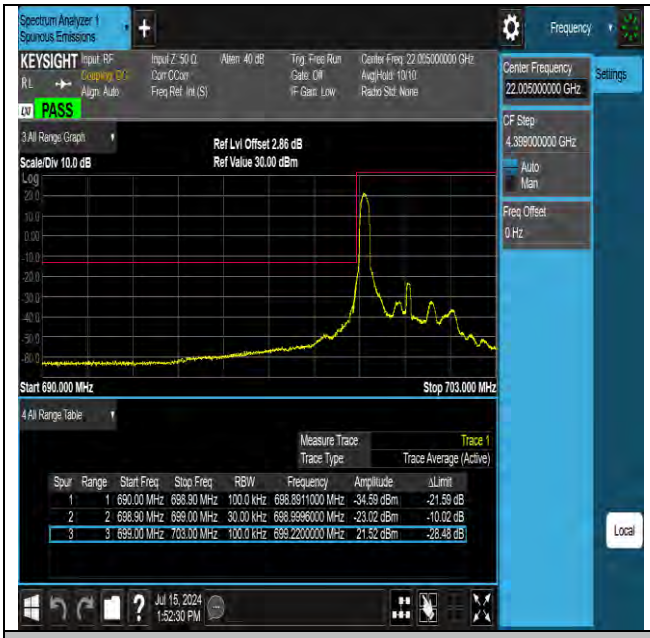
Band12_1.4MHz_16QAM_23017_1RB#0

Band12_1.4MHz_16QAM_23017_6RB#0



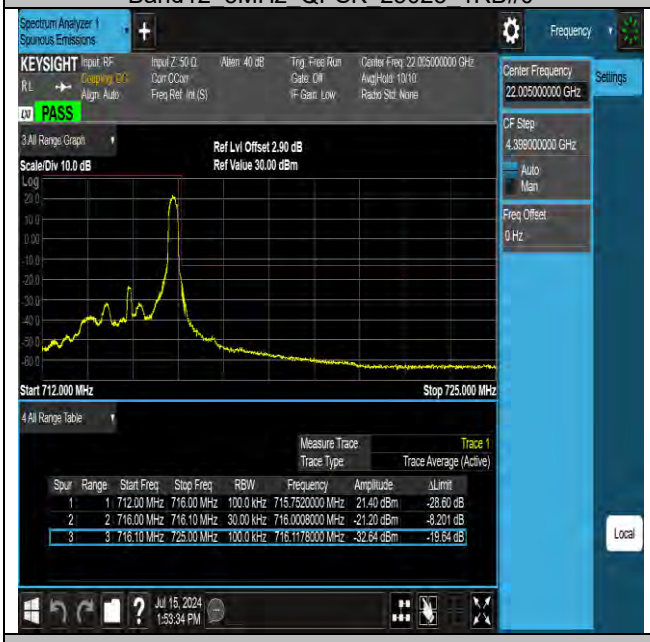
Band12_1.4MHz_16QAM_23173_1RB#5

Band12_1.4MHz_16QAM_23173_6RB#0



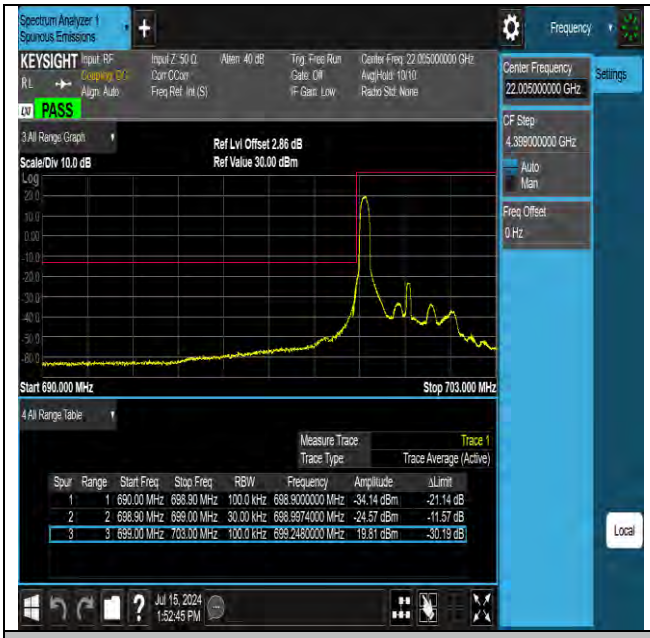
Band12_3MHz_QPSK_23025_1RB#0

Band12_3MHz_QPSK_23025_15RB#0



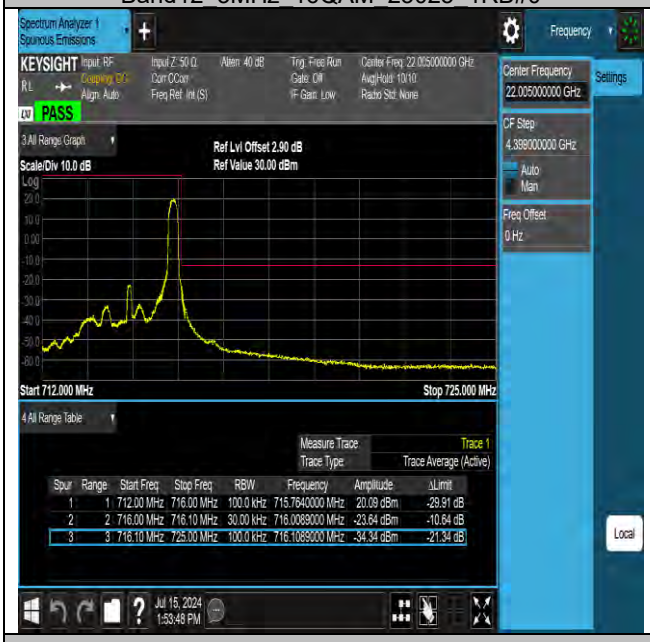
Band12_3MHz_QPSK_23165_1RB#14

Band12_3MHz_QPSK_23165_15RB#0

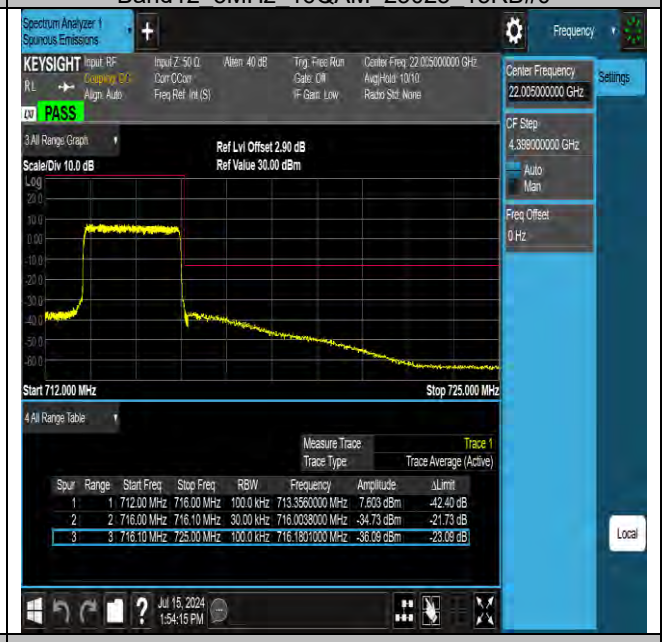


Band12_3MHz_16QAM_23025_1RB#0

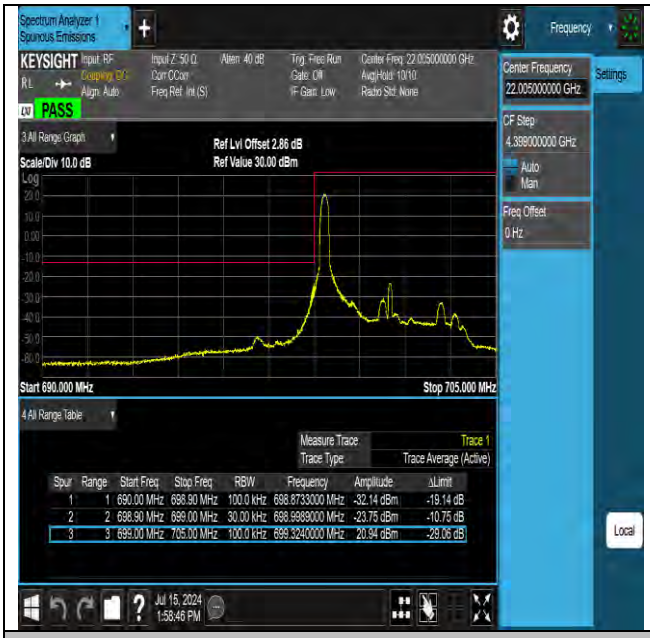
Band12_3MHz_16QAM_23025_15RB#0



Band12_3MHz_16QAM_23165_1RB#14

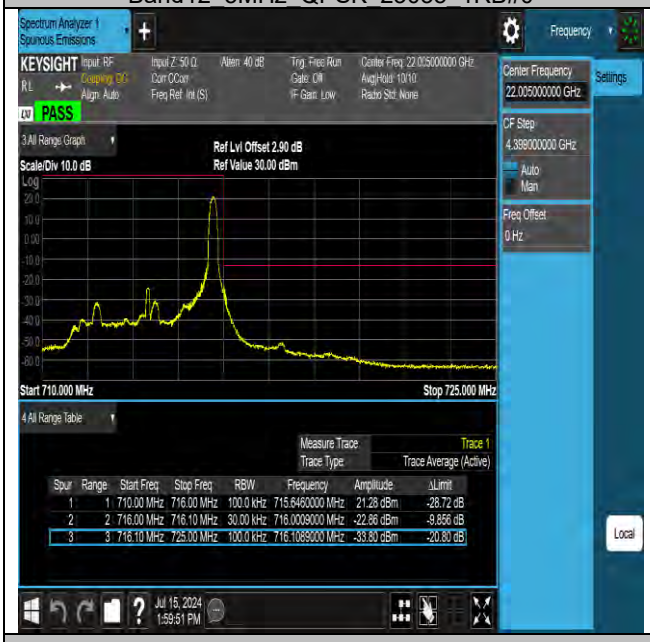


Band12_3MHz_16QAM_23165_15RB#0



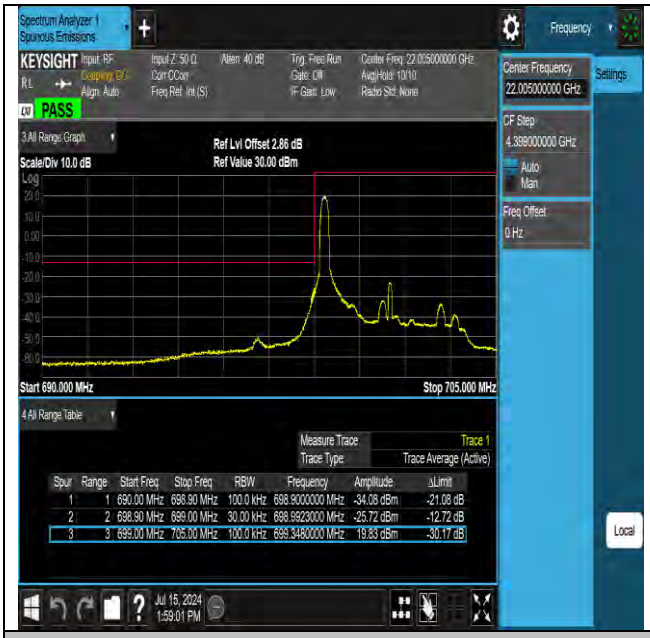
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_25RB#0



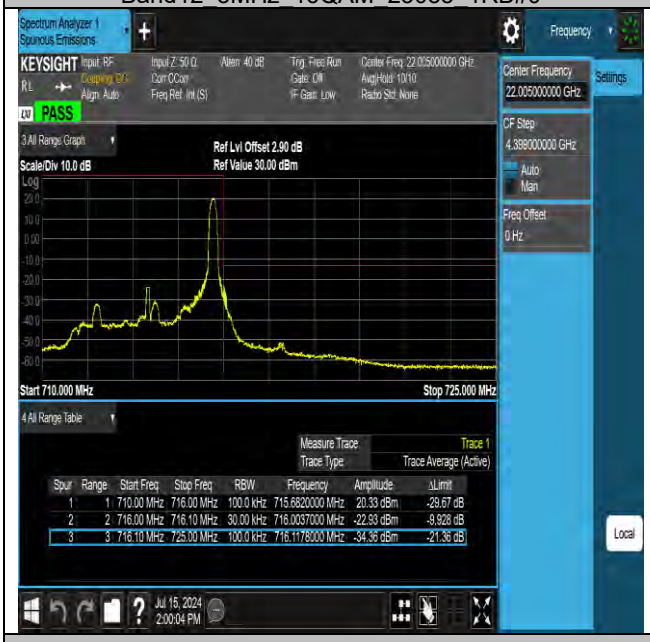
Band12_5MHz_QPSK_23155_1RB#24

Band12_5MHz_QPSK_23155_25RB#0

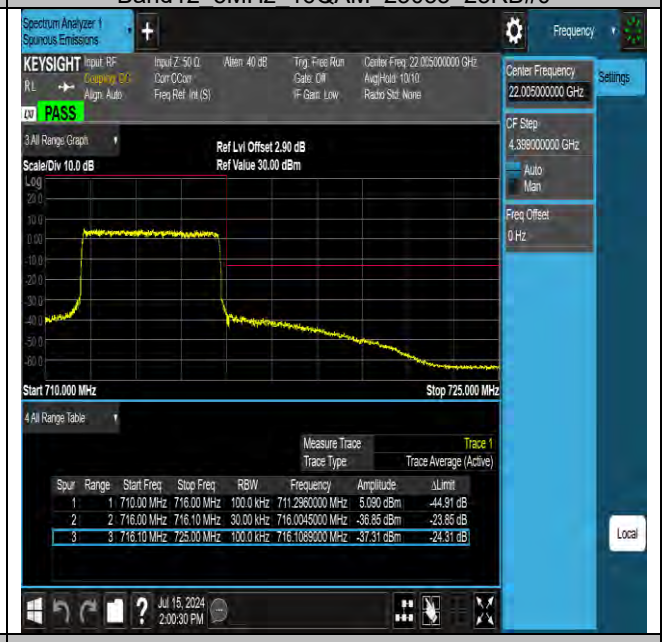


Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_25RB#0



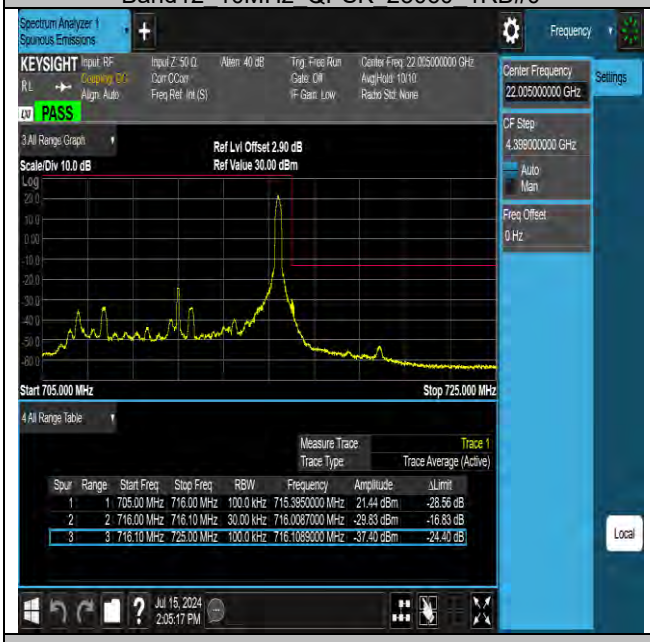
Band12_5MHz_16QAM_23155_1RB#24



Band12_5MHz_16QAM_23155_25RB#0

Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_QPSK_23130_1RB#49

Band12_10MHz_QPSK_23130_50RB#0

Band12_10MHz_16QAM_23060_1RB#0

Band12_10MHz_16QAM_23060_50RB#0

Band12_10MHz_16QAM_23130_1RB#49

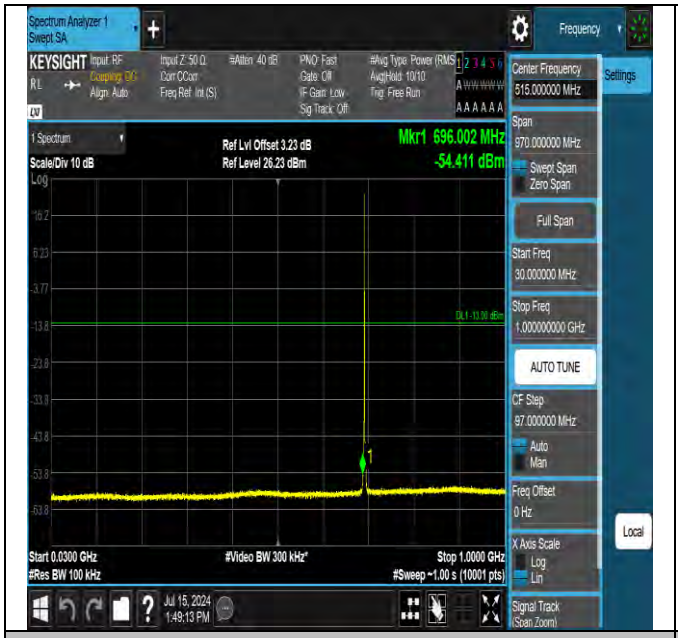
Band12_10MHz_16QAM_23130_50RB#0

CONDUCTED SPURIOUS EMISSION

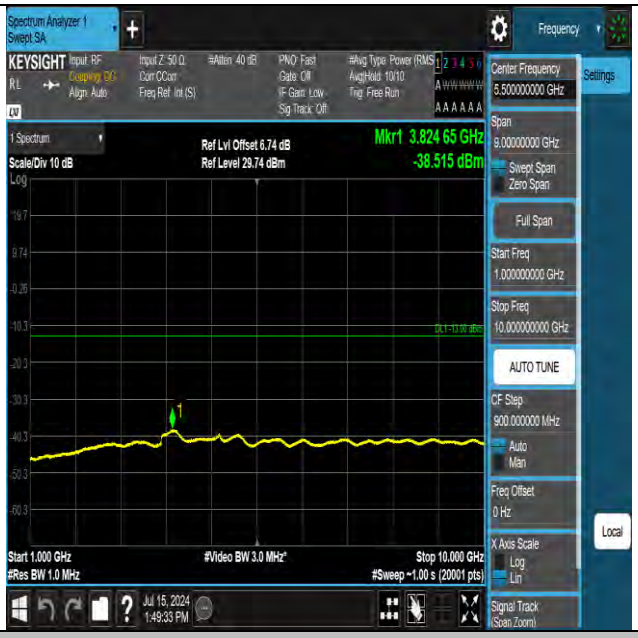
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-54.41	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~10000	-38.52	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-54.08	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~10000	-38.43	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-54.08	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~10000	-38.54	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-57.06	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~10000	-38.63	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-56.26	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~10000	-38.54	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-57.51	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~10000	-38.39	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-56.79	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~10000	-38.41	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-57.34	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~10000	-38.56	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-57.37	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~10000	-38.56	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-57.23	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~10000	-38.46	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-57.41	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~10000	-38.58	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-57.53	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~10000	-38.51	PASS

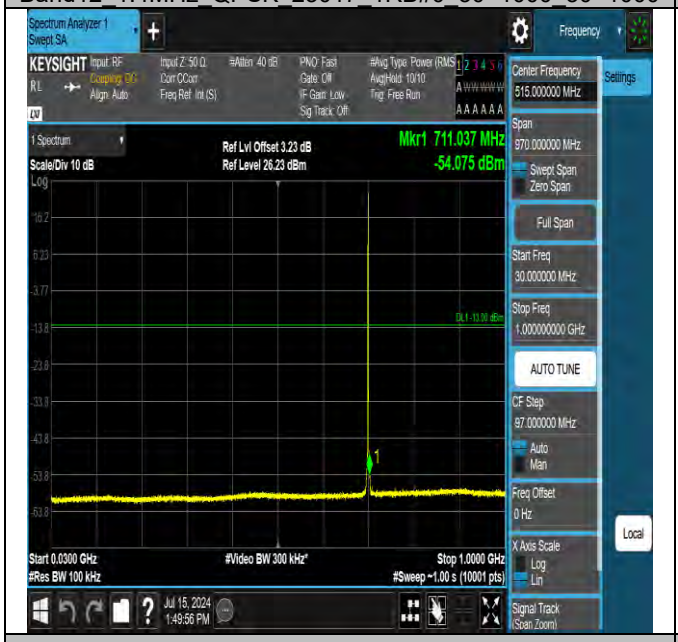
Test Graphs



Band12_1.4MHz_QPSK_23017_1RB#0_30~1000_30~1000

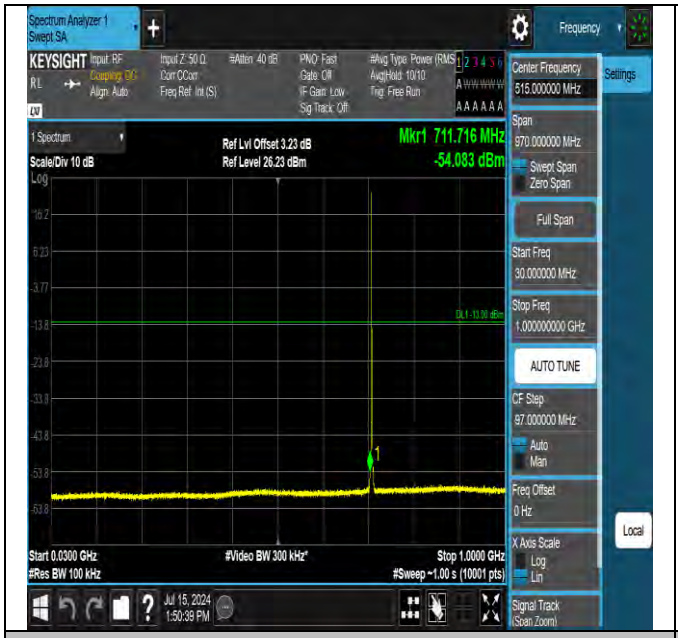


Band12_1.4MHz_QPSK_23017_1RB#0_1000~10000_1000~10000



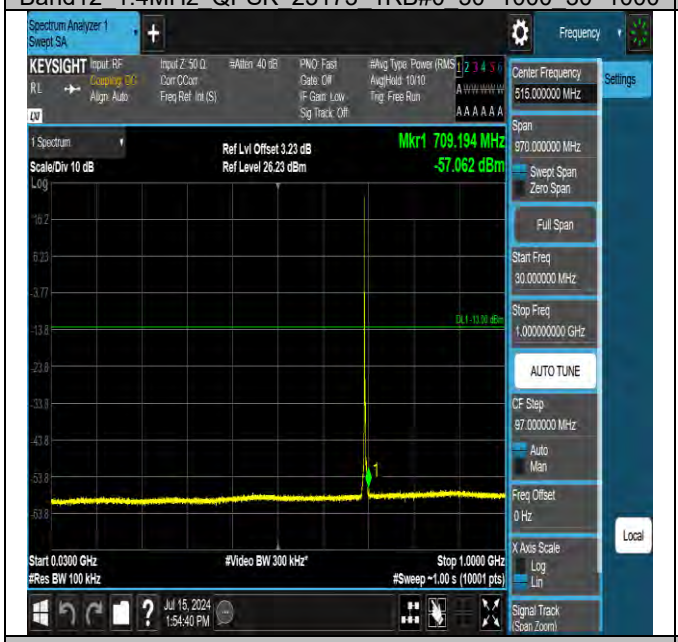
Band12_1.4MHz_QPSK_23095_1RB#0_30~1000_30~1000

Band12_1.4MHz_QPSK_23095_1RB#0_1000~10000_1000~10000



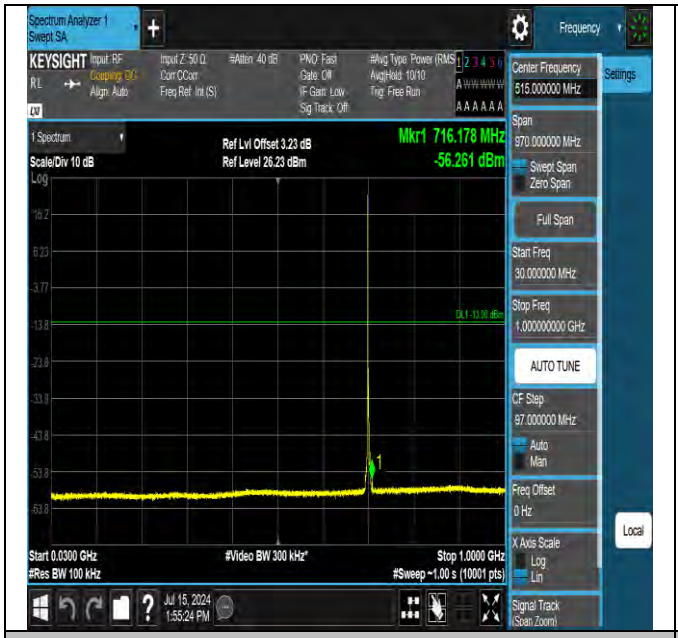
Band12_1.4MHz_QPSK_23173_1RB#0_30~1000_30~1000

Band12_1.4MHz_QPSK_23173_1RB#0_1000~10000_1000~10000



Band12_3MHz_QPSK_23025_1RB#0_30~1000_30~1000

Band12_3MHz_QPSK_23025_1RB#0_1000~10000_1000~10000

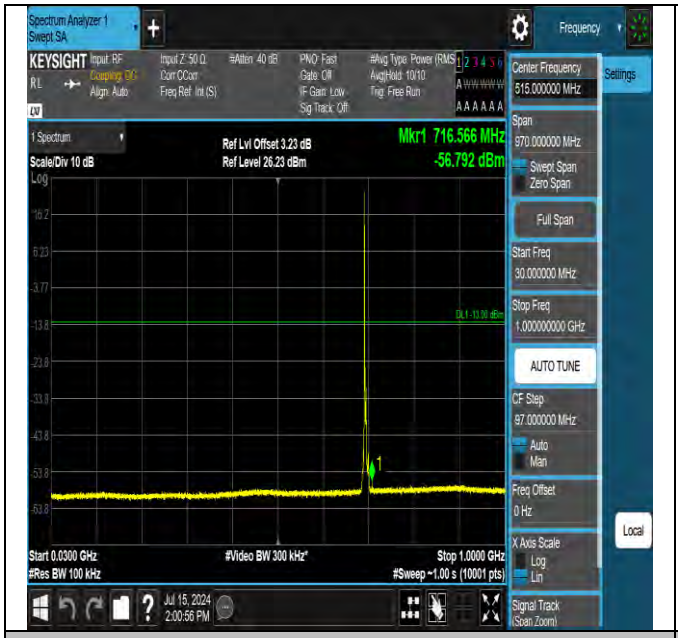


Band12_3MHz_QPSK_23095_1RB#0_30~1000_30~1000

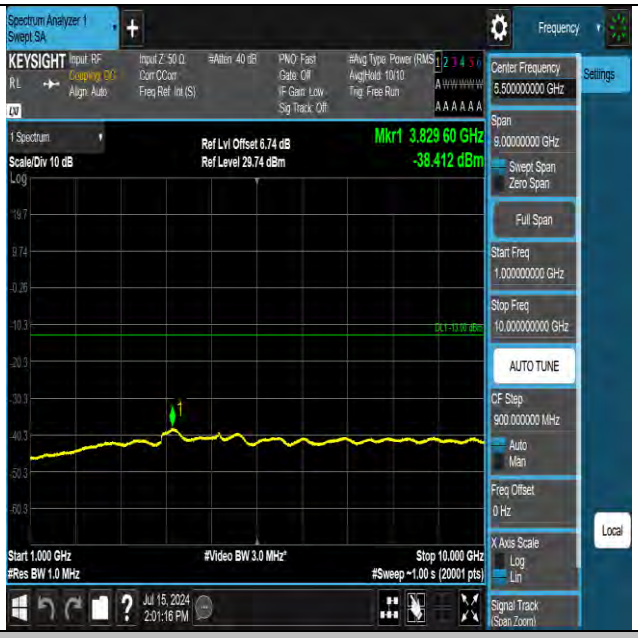
Band12_3MHz_QPSK_23095_1RB#0_1000~10000_1000~10000

Band12_3MHz_QPSK_23165_1RB#0_30~1000_30~1000

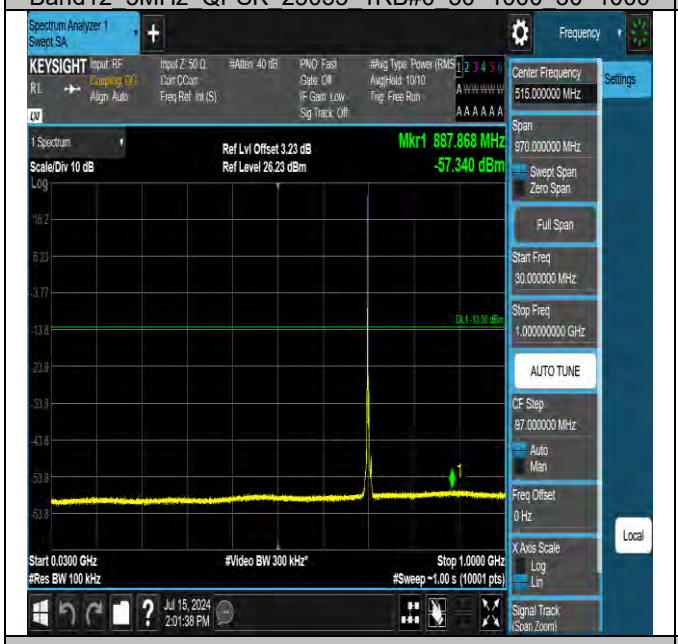
Band12_3MHz_QPSK_23165_1RB#0_1000~10000_1000~10000



Band12_5MHz_QPSK_23035_1RB#0_30~1000_30~1000

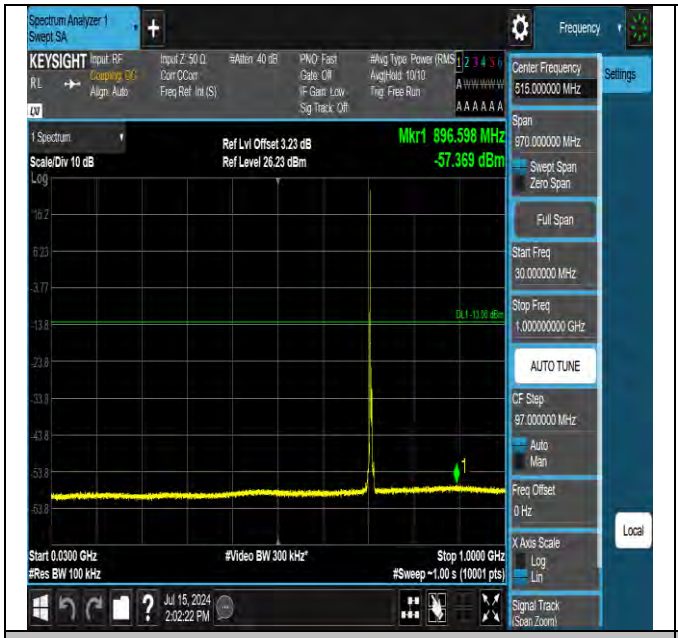


Band12_5MHz_QPSK_23035_1RB#0_1000~10000_1000~10000



Band12_5MHz_QPSK_23095_1RB#0_30~1000_30~1000

Band12_5MHz_QPSK_23095_1RB#0_1000~10000_1000~10000

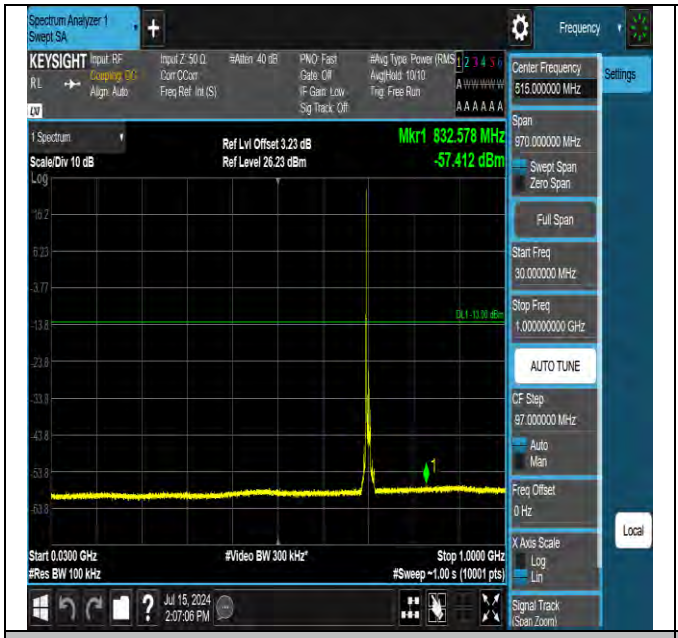


Band12_5MHz_QPSK_23155_1RB#0_30~1000_30~1000

Band12_5MHz_QPSK_23155_1RB#0_1000~10000_1000~10000

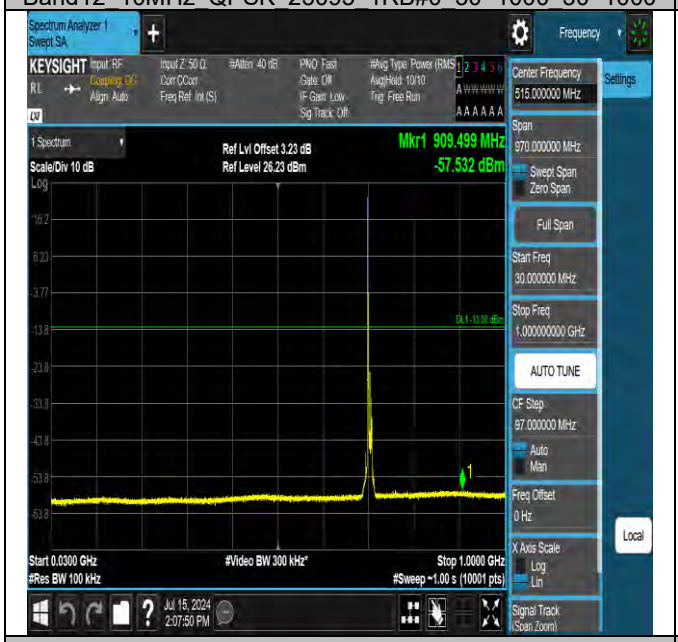
Band12_10MHz_QPSK_23060_1RB#0_30~1000_30~1000

Band12_10MHz_QPSK_23060_1RB#0_1000~10000_1000~10000



Band12_10MHz_QPSK_23095_1RB#0_30~1000_30~1000

Band12_10MHz_QPSK_23095_1RB#0_1000~10000_1000~10000



Band12_10MHz_QPSK_23130_1RB#0_30~1000_30~1000

Band12_10MHz_QPSK_23130_1RB#0_1000~10000_1000~10000

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band12	10MHz	QPSK	23060	50RB #0	VN	NT	-1074.16	-1.525799	699.52747	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	VL	NT	1176.95	1.671804	699.52022	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	VH	NT	-1345.33	-1.910981	699.52552	---	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VN	NT	973.51	1.369206	---	715.46169	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VL	NT	-1212.30	-1.705059	---	715.45885	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	VH	NT	-1295.29	-1.821782	---	715.4666	698-716	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band12	10MHz	QPSK	23060	50RB #0	NV	-30	-1019.53	-1.448191	699.52607	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	-20	1193.04	1.694652	699.53322	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	-10	-1199.18	-1.703382	699.52485	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	0	-1230.72	-1.748185	699.52411	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	10	1207.59	1.715326	699.5252	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	20	-1272.28	-1.807220	699.52762	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	30	1261.09	1.791321	699.52518	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	40	1179.65	1.675645	699.53031	---	698-716	PASS
Band12	10MHz	QPSK	23060	50RB #0	NV	50	-1169.34	-1.660994	699.52034	---	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-30	930.40	1.308576	---	715.46288	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-20	-1063.96	-1.496423	---	715.4635	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	-10	-1100.46	-1.547763	---	715.46168	698-716	PASS
Band1	10MH	QPSK	23130	50RB	NV	0	1047.	1.473	---	715.4	698-7	PASS

2	z			#0			80	702		6576	16	
Band12	10MHz	QPSK	23130	50RB #0	NV	10	928.88	1.306443	---	715.45761	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	20	-392.70	-0.552315	---	715.45799	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	30	-384.25	-0.540435	---	715.46035	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	40	-1126.60	-1.584523	---	715.46182	698-716	PASS
Band12	10MHz	QPSK	23130	50RB #0	NV	50	-1371.95	-1.929609	---	715.46562	698-716	PASS

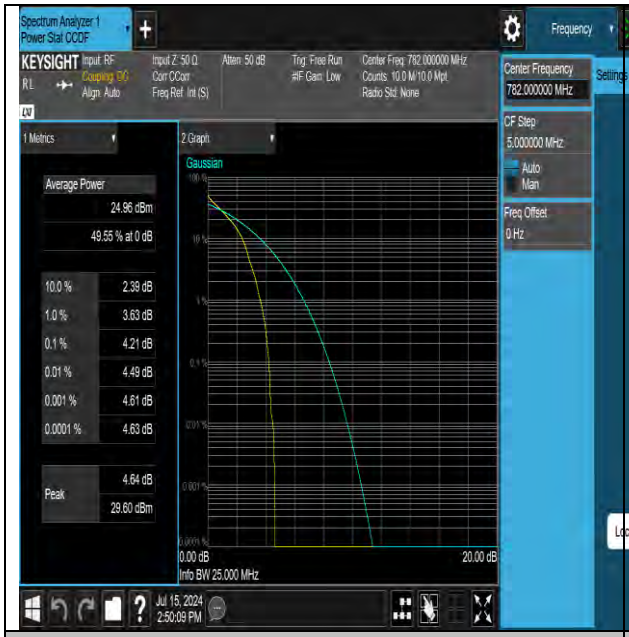
LTE BAND 13

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

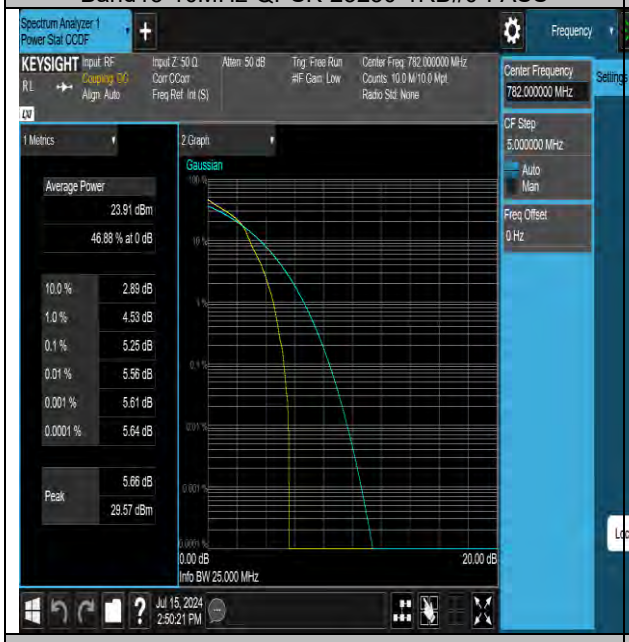
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	4.21	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.05	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.25	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.86	13	PASS

Test Graphs



Band13-10MHz-QPSK-23230-1RB#0-PASS

Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS

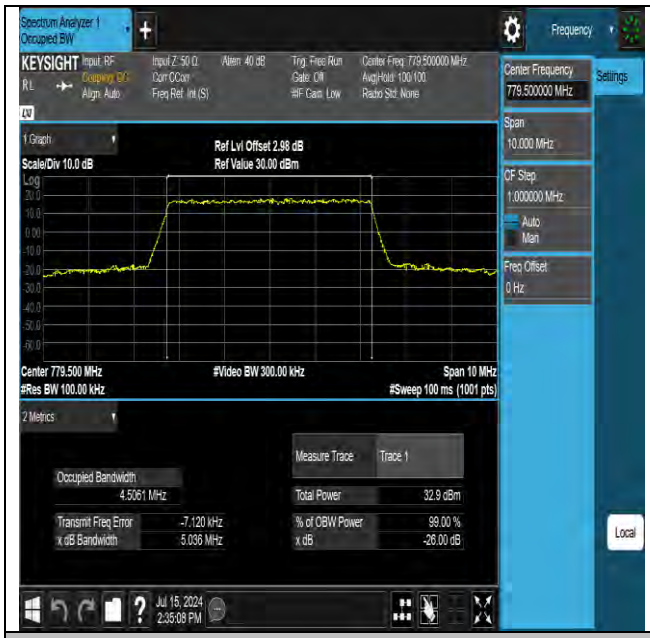
Band13-10MHz-16QAM-23230-50RB#0-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

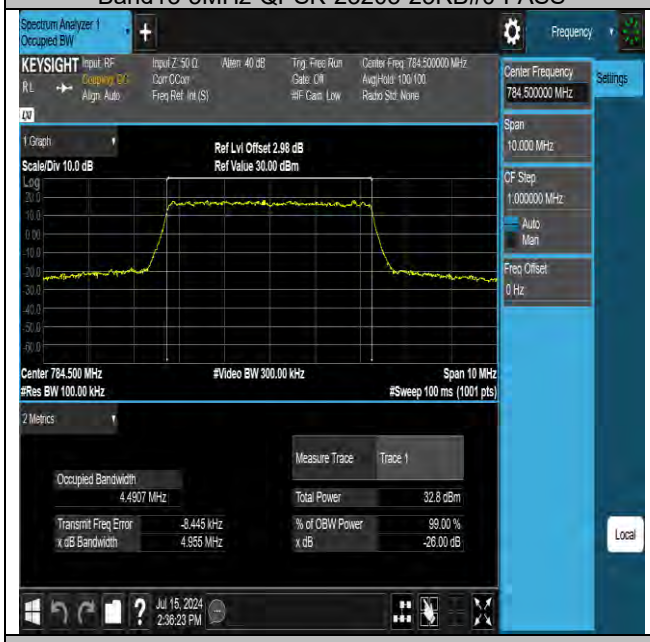
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5061	5.036	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5020	5.028	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4907	4.955	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5028	4.998	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5020	4.996	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4905	4.956	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9937	9.826	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9644	9.797	PASS

Test Graphs



Band13-5MHz-QPSK-23205-25RB#0-PASS

Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS

Band13-5MHz-16QAM-23205-25RB#0-PASS

Band13-5MHz-16QAM-23230-25RB#0-PASS

Band13-5MHz-16QAM-23255-25RB#0-PASS

Band13-10MHz-QPSK-23230-50RB#0-PASS

Band13-10MHz-16QAM-23230-50RB#0-PASS

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-61.78	PASS
Band13	5MHz	QPSK	23205	25RB#0	-44.35	PASS
Band13	5MHz	QPSK	23255	1RB#24	-69.18	PASS
Band13	5MHz	QPSK	23255	25RB#0	-35.43	PASS
Band13	5MHz	16QAM	23205	1RB#0	-62.65	PASS
Band13	5MHz	16QAM	23205	25RB#0	-46.50	PASS
Band13	5MHz	16QAM	23255	1RB#24	-68.45	PASS
Band13	5MHz	16QAM	23255	25RB#0	-60.19	PASS
Band13	10MHz	QPSK	23230	1RB#0	-57.39	PASS
Band13	10MHz	QPSK	23230	1RB#49	-62.35	PASS
Band13	10MHz	QPSK	23230	50RB#0	-46.30	PASS
Band13	10MHz	16QAM	23230	1RB#0	-58.69	PASS
Band13	10MHz	16QAM	23230	1RB#49	-61.96	PASS
Band13	10MHz	16QAM	23230	50RB#0	-49.33	PASS

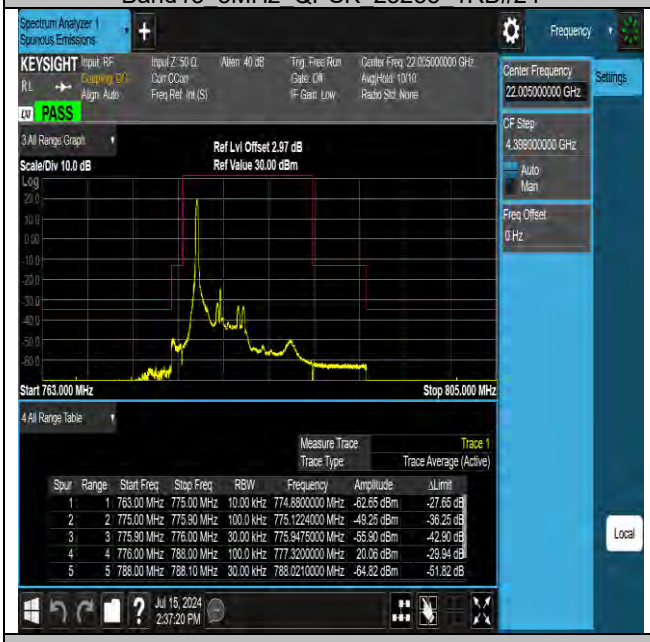
Test Graphs

Band13_5MHz_QPSK_23205_1RB#0

Band13_5MHz_QPSK_23205_25RB#0

Band13_5MHz_QPSK_23255_1RB#24

Band13_5MHz_QPSK_23255_25RB#0

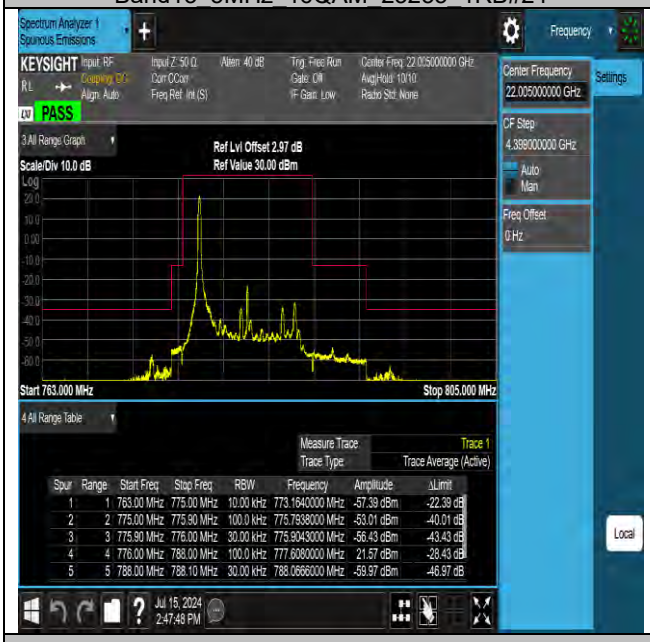


Band13_5MHz_16QAM_23205_1RB#0

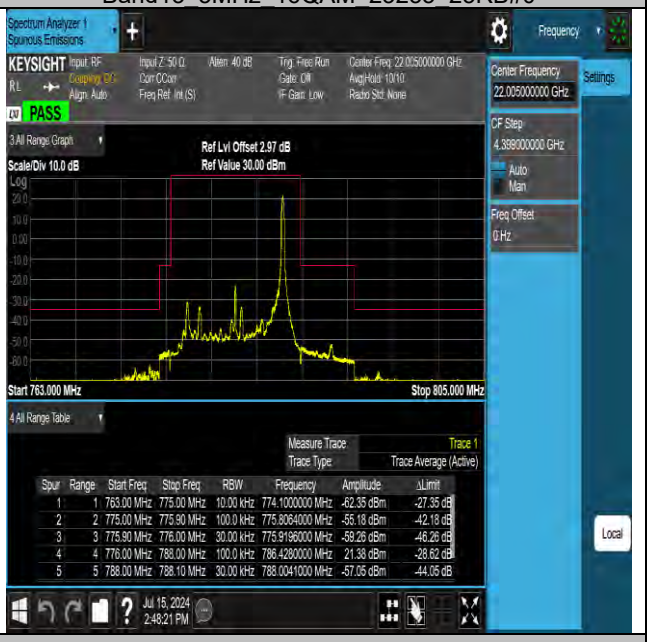
Band13_5MHz_16QAM_23205_25RB#0

Band13_5MHz_16QAM_23255_1RB#24

Band13_5MHz_16QAM_23255_25RB#0



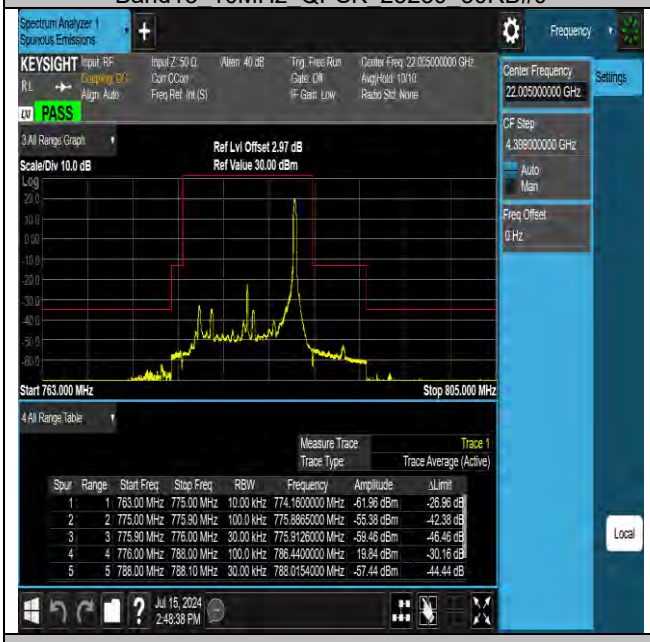
Band13_10MHz_QPSK_23230_1RB#0



Band13_10MHz_QPSK_23230_1RB#49

Band13_10MHz_QPSK_23230_50RB#0

Band13_10MHz_16QAM_23230_1RB#0



Band13_10MHz_16QAM_23230_1RB#49

Band13_10MHz_16QAM_23230_50RB#0

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-57.45	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~10000	-38.42	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-57.44	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~10000	-38.46	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-57.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~10000	-38.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-57.37	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~10000	-38.47	PASS

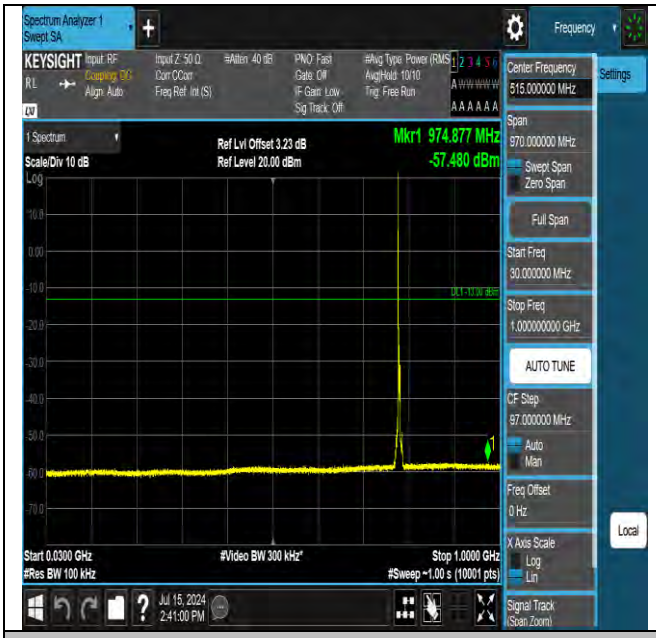
Test Graphs

Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23205_1RB#0_1000~10000_1000~10000

Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23230_1RB#0_1000~10000_1000~10000



Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23255_1RB#0_1000~10000_1000~10000

Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

Band13_10MHz_QPSK_23230_1RB#0_1000~10000_1000~10000

FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	VN	NT	-1081.14	-1.386967	777.25898	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VL	NT	1101.28	1.412799	777.26112	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VH	NT	-1155.26	-1.482047	777.25886	---	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VN	NT	904.52	1.152994	---	786.7285	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VL	NT	-1038.14	-1.323310	---	786.73175	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VH	NT	-1308.58	-1.668047	---	786.72954	777-787	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	NV	-30	-1028.65	-1.319633	777.25783	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-20	1125.23	1.443525	777.26044	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-10	-1210.38	-1.552764	777.26152	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	0	-1250.25	-1.603912	777.25868	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	10	1170.74	1.501917	777.25782	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	20	-1318.78	-1.691824	777.25861	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	30	1216.14	1.560154	777.25942	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	40	1203.54	1.543991	777.25808	---	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	50	-1255.15	-1.610203	777.25977	---	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-30	884.64	1.127651	---	786.73077	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-20	-1026.26	-1.308172	---	786.72937	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-10	-1024.03	-1.305329	---	786.72903	777-787	PASS
Band1	5MHz	QPSK	23255	25RB	NV	0	777.2	0.990	---	786.7	777-7	PASS

3				#0			1	701		3152	87	
Band13	5MHz	QPSK	23255	25RB #0	NV	10	731.16	0.932004	---	786.7293	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	20	-366.73	-0.467476	---	786.72978	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	30	-509.76	-0.649788	---	786.73219	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	40	-737.99	-0.940712	---	786.73308	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	50	-876.52	-1.117303	---	786.72885	777-787	PASS

---END---