

LTE Band 38 Test Data

General Description of EUT	
EUT Name:	Tractive Dog 6 XL
Model:	TG6XLC
Sample ID:	HC-C-202512-0263-01-01#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.87V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0263-151 The report only show the worst case data.	

Contents

LTE Band 38 Test Data	1
1: Conducted Output Power Data	3
Test Result	3
2: Peak-to-Average Ratio(CCDF)	5
Test Result	5
Test Graphs	6
3: 26dB Bandwidth and Occupied Bandwidth	9
Test Result	9
Test Graphs	10
4: Band Edge	12
Test Result	12
Test Graphs	13
5: Conducted Spurious Emission	16
Test Result	16
Test Graphs	17
6: Frequency Stability	24
Test Result	24

1: Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.10	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.64	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.36	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.84	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.72	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.34	34.8	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.72	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.45	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.33	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.57	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.14	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.30	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.43	34.8	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.29	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.10	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.48	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.84	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.29	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.54	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.87	34.8	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.55	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.83	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.45	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.10	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.13	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.81	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.68	34.8	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.82	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.68	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.52	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.86	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.36	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.33	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.51	34.8	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.32	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.15	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.44	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.93	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.33	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.56	34.8	PASS

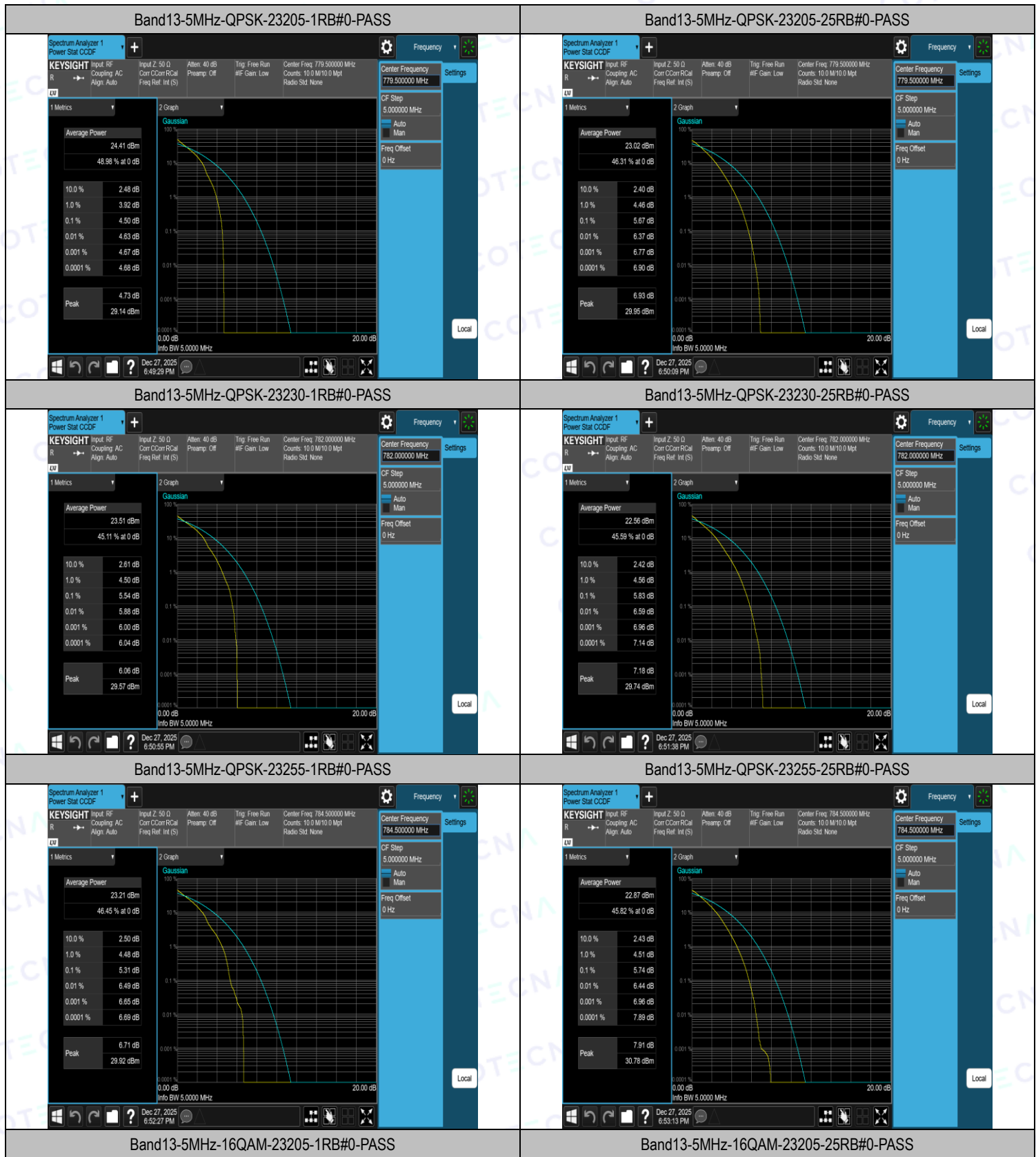
Band13	5MHz	16QAM	23255	12RB#13	21.84	34.8	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.66	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.80	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.15	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.93	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.31	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.38	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.55	34.8	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.40	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.03	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.21	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.20	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.49	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.41	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.63	34.8	PASS

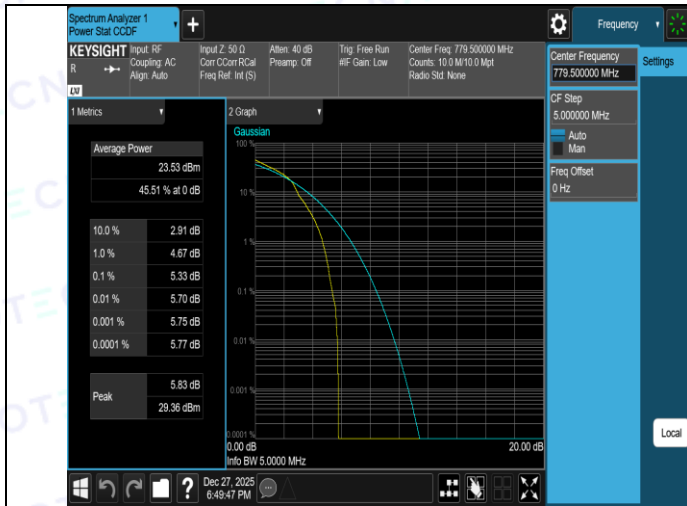
2: Peak-to-Average Ratio(CCDF)

Test Result

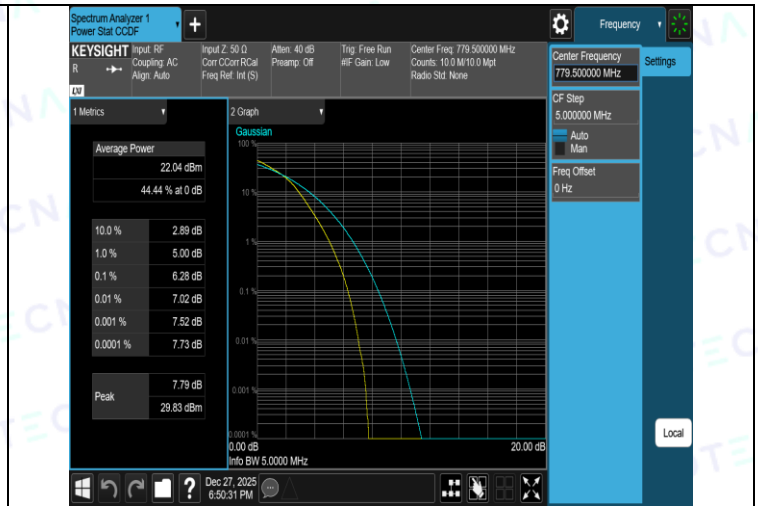
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.50	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.67	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.54	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.83	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.31	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.74	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.33	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.28	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.34	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.41	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.45	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.52	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.22	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.88	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.07	13	PASS

Test Graphs

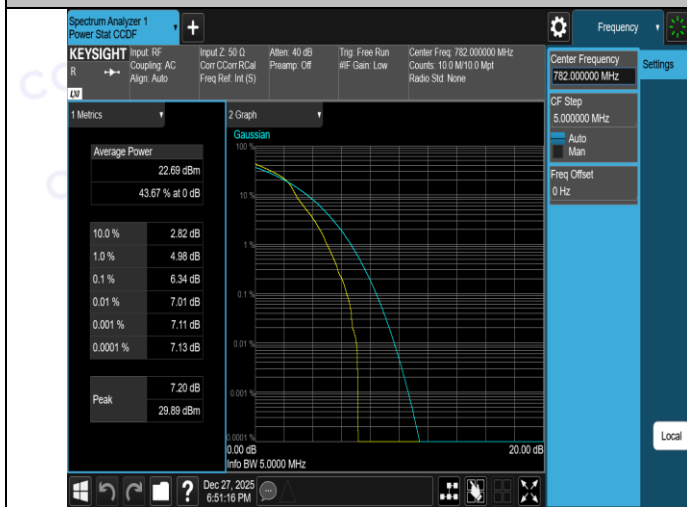




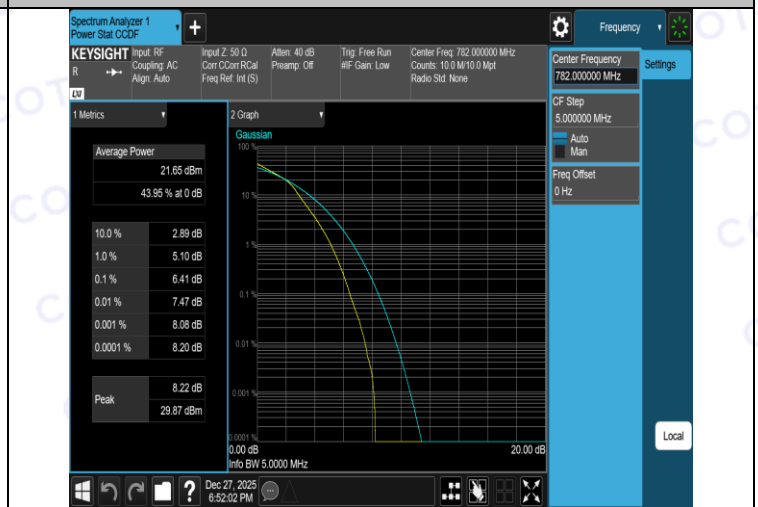
Band13-5MHz-16QAM-23230-1RB#0-PASS



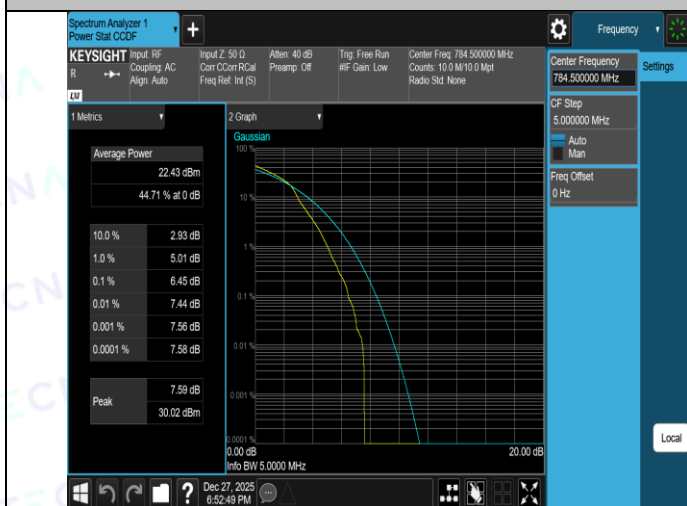
Band13-5MHz-16QAM-23230-25RB#0-PASS



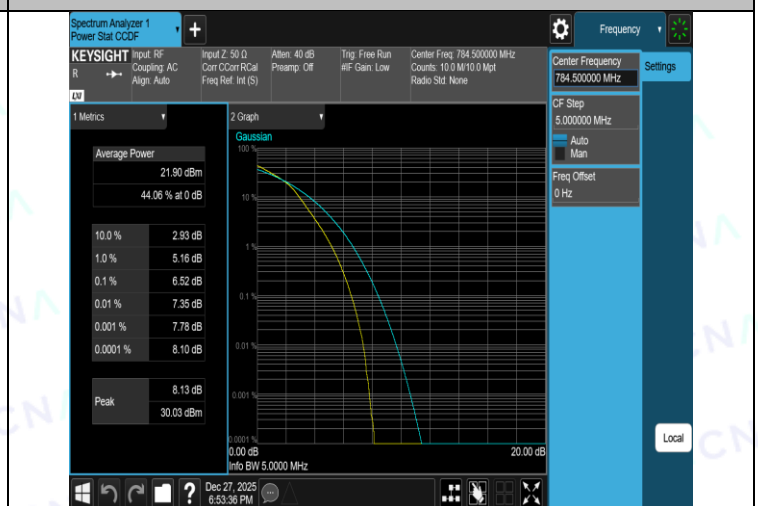
Band13-5MHz-16QAM-23255-1RB#0-PASS



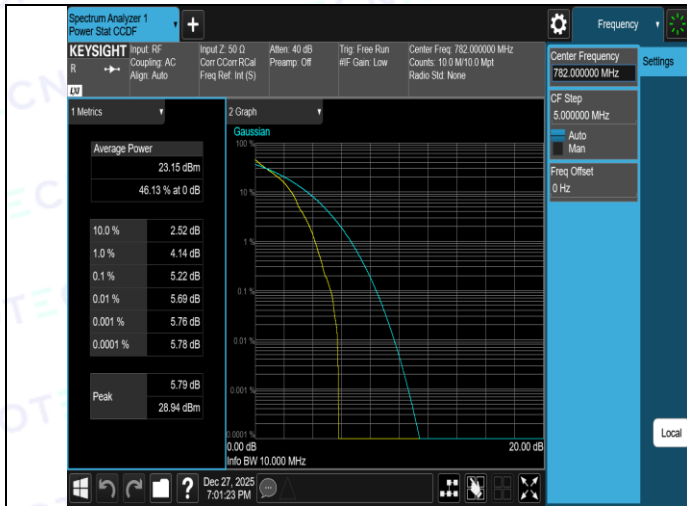
Band13-5MHz-16QAM-23255-25RB#0-PASS



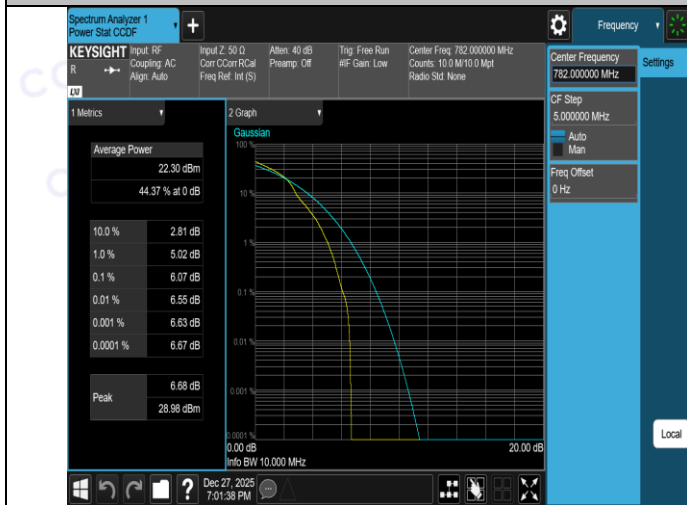
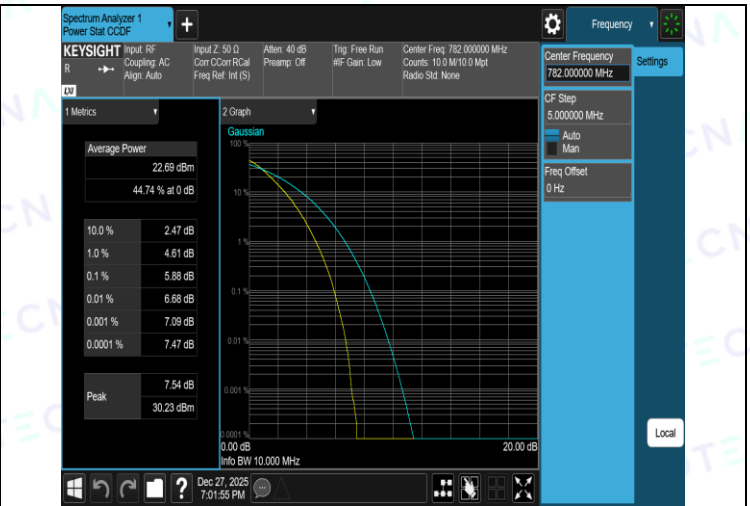
Band13-10MHz-QPSK-23230-1RB#0-PASS



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



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

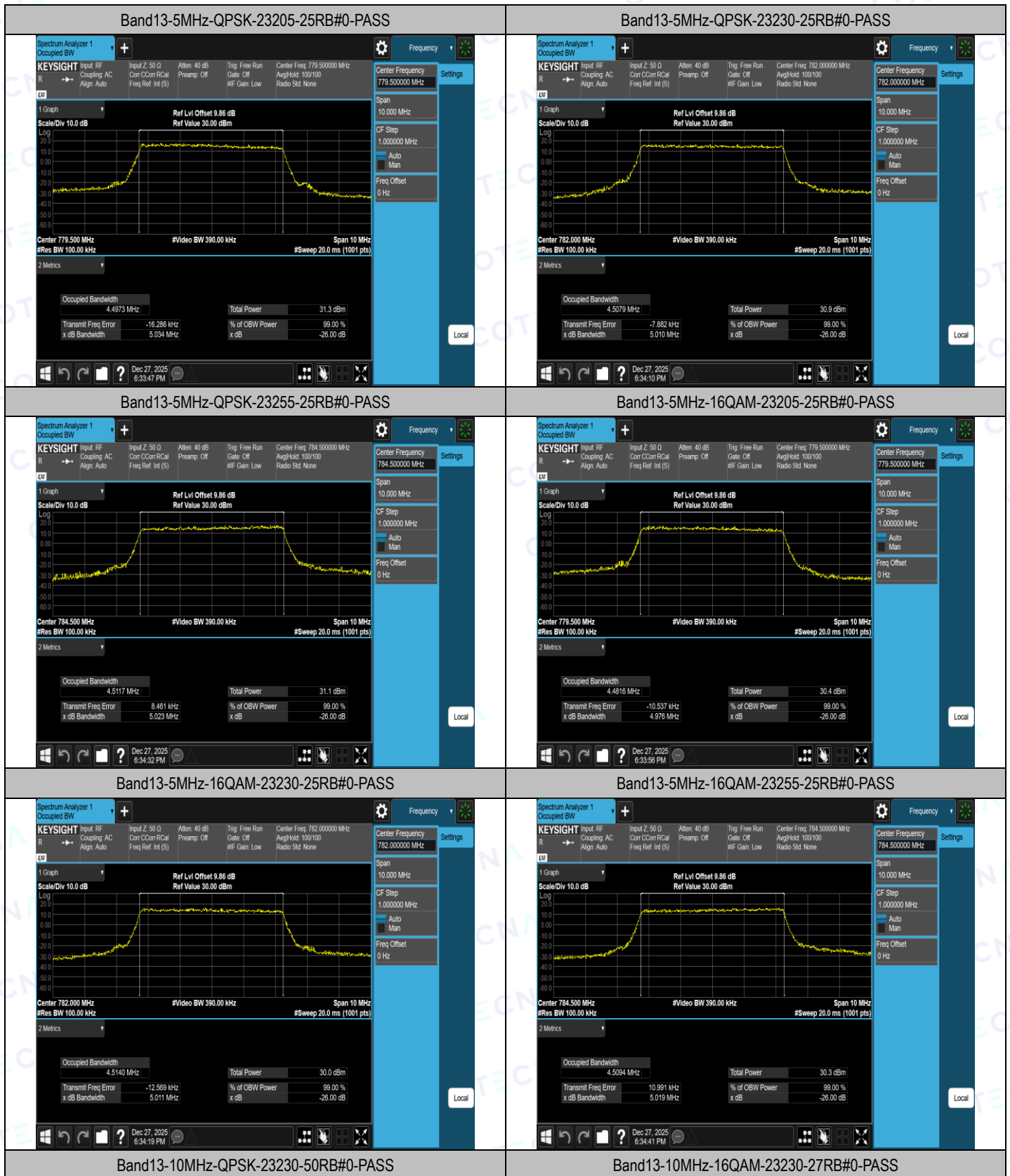


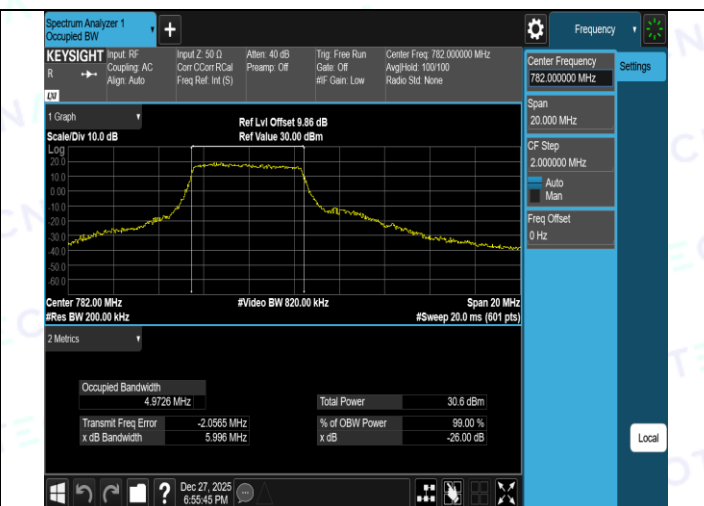
3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4973	5.034	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5079	5.010	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5117	5.023	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4816	4.976	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5140	5.011	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5094	5.019	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9822	9.980	PASS
Band13	10MHz	16QAM	23230	27RB#0	4.9726	5.996	PASS

Test Graphs





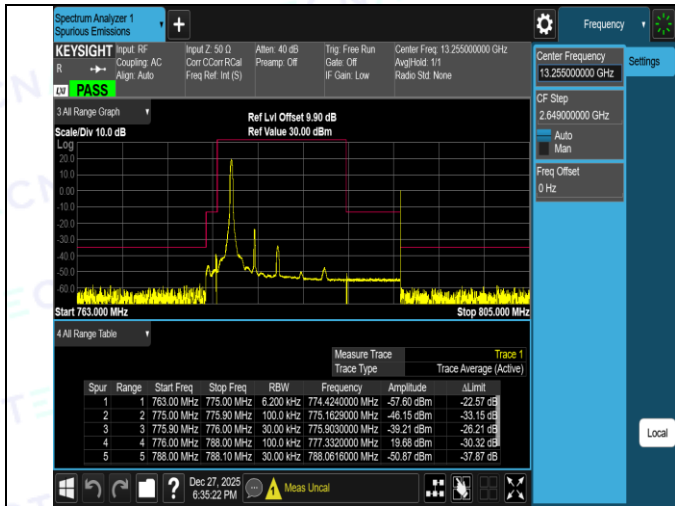
4: Band Edge

Test Result

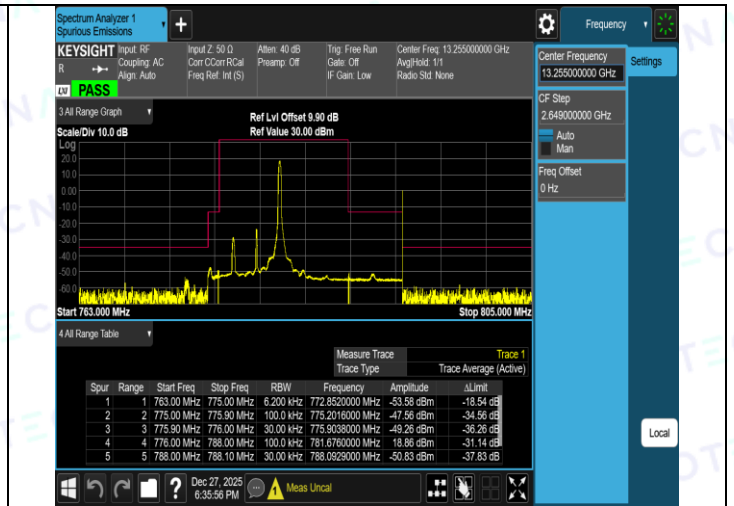
Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-56.61	21.61	PASS
Band13	5MHz	QPSK	23205	1RB#24	-49.54	14.54	PASS
Band13	5MHz	QPSK	23205	25RB#0	-43.33	8.33	PASS
Band13	5MHz	QPSK	23255	1RB#0	-58.48	23.48	PASS
Band13	5MHz	QPSK	23255	1RB#24	-32.22	19.22	PASS
Band13	5MHz	QPSK	23255	25RB#0	-52.96	17.96	PASS
Band13	5MHz	16QAM	23205	1RB#0	-57.60	22.60	PASS
Band13	5MHz	16QAM	23205	1RB#24	-53.58	18.58	PASS
Band13	5MHz	16QAM	23205	25RB#0	-44.95	9.95	PASS
Band13	5MHz	16QAM	23255	1RB#0	-57.00	22.00	PASS
Band13	5MHz	16QAM	23255	1RB#24	-57.32	22.32	PASS
Band13	5MHz	16QAM	23255	25RB#0	-31.71	18.71	PASS
Band13	10MHz	QPSK	23230	1RB#0	-55.08	20.08	PASS
Band13	10MHz	QPSK	23230	1RB#49	-57.22	22.22	PASS
Band13	10MHz	QPSK	23230	50RB#0	-51.60	16.60	PASS
Band13	10MHz	16QAM	23230	1RB#0	-52.87	17.87	PASS
Band13	10MHz	16QAM	23230	1RB#49	-56.01	21.01	PASS

Test Graphs

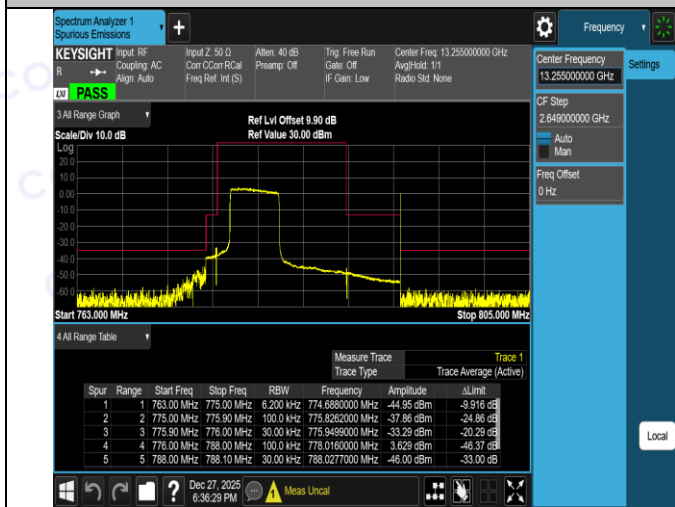




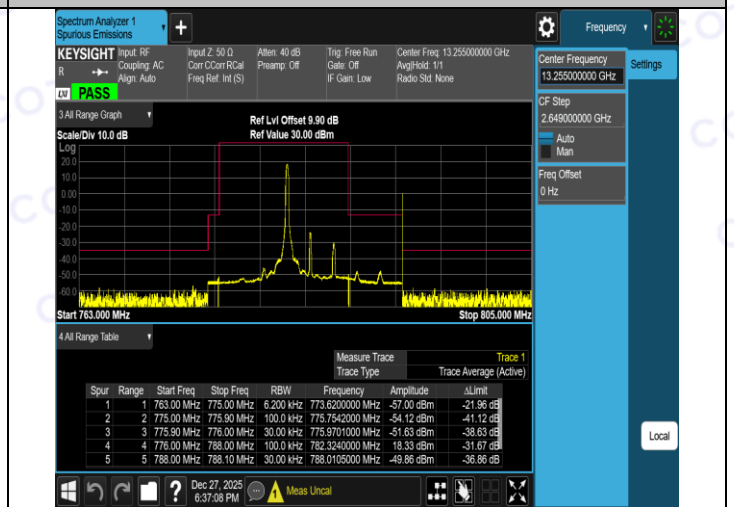
Band13-5MHz-16QAM-23205-25RB#0-PASS



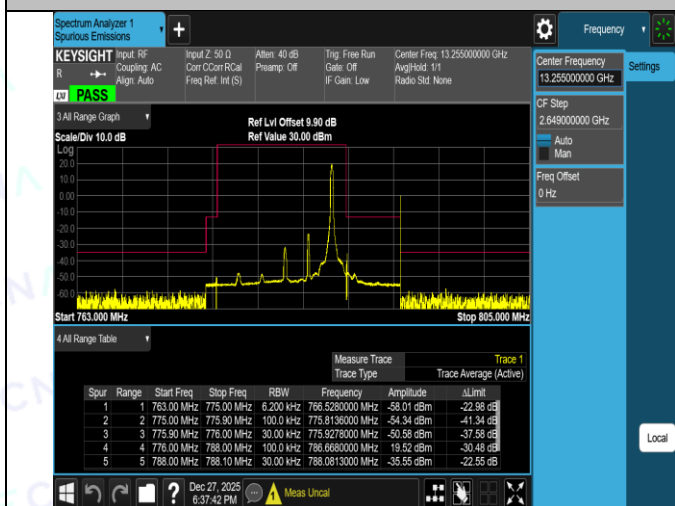
Band13-5MHz-16QAM-23255-1RB#0-PASS



Band13-5MHz-16QAM-23255-1RB#24-PASS



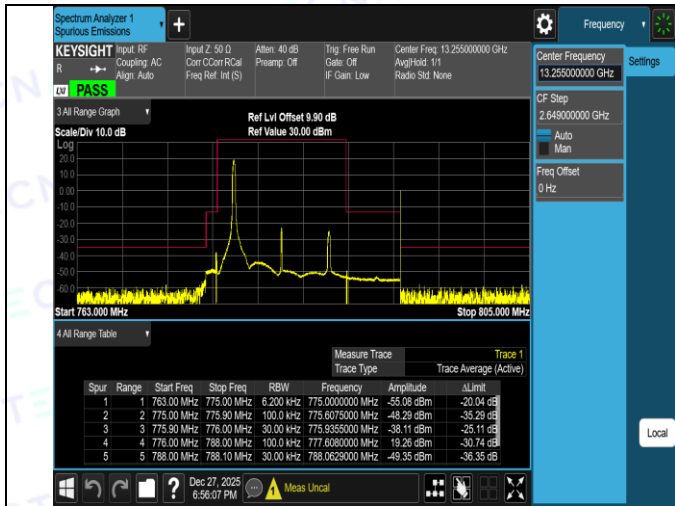
Band13-5MHz-16QAM-23255-25RB#0-PASS



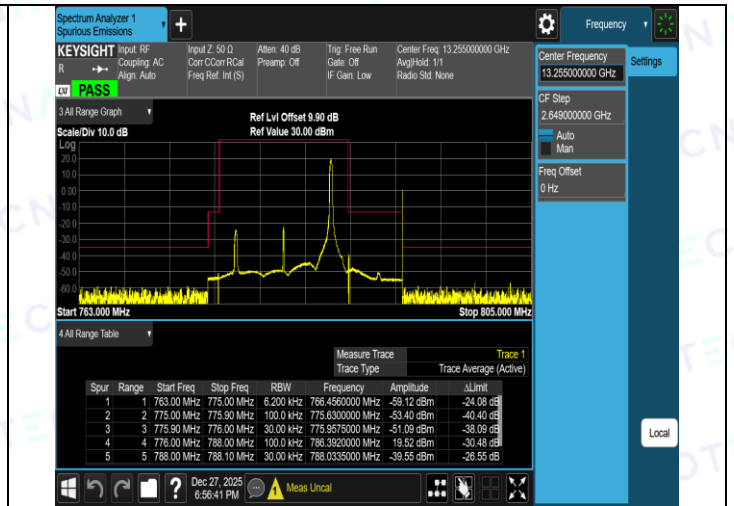
Band13-10MHz-QPSK-23230-1RB#0-PASS



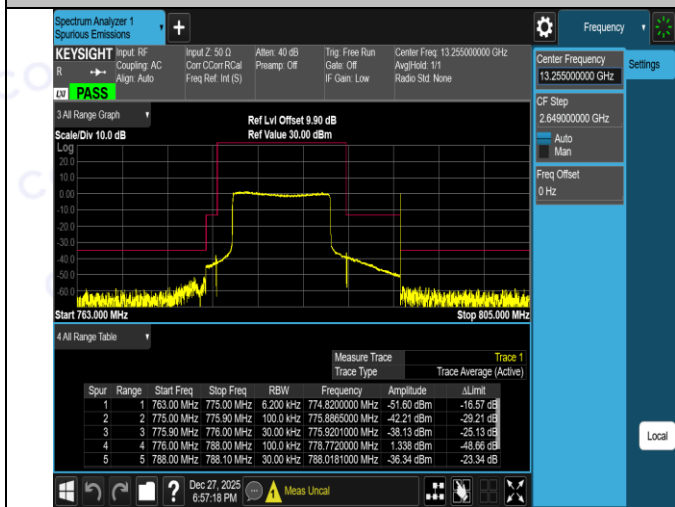
Band13-10MHz-QPSK-23230-1RB#49-PASS



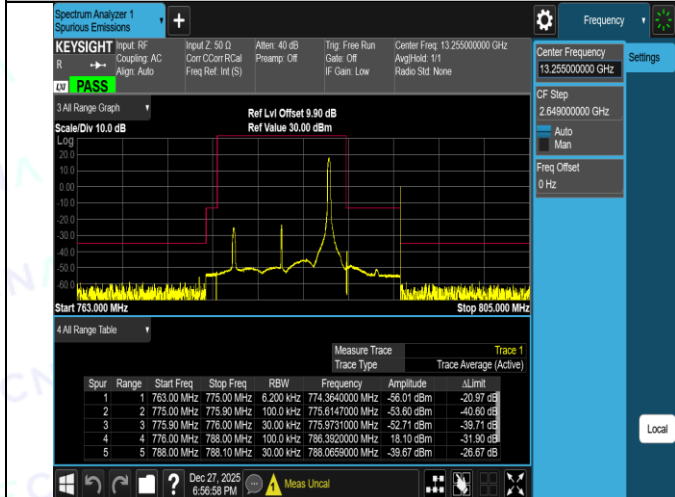
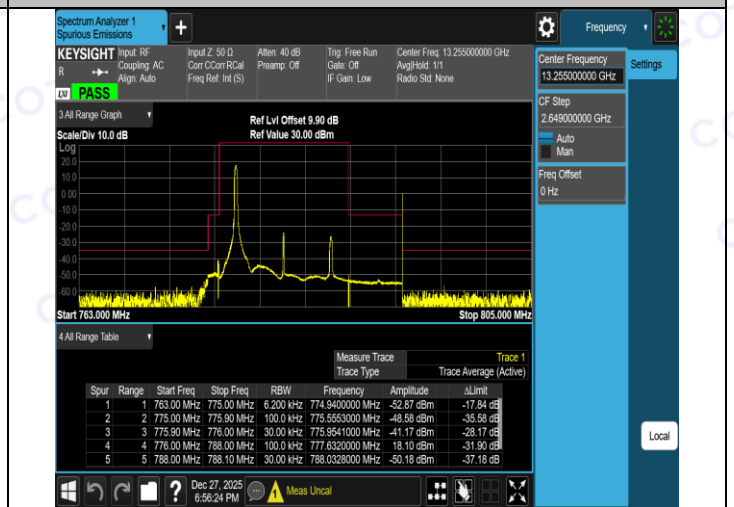
Band13-10MHz-QPSK-23230-50RB#0-PASS



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



Band13-10MHz-16QAM-23230-1RB#49-PASS



5: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Frequency	Value(dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	0.01	-58.88	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	0.45	-58.79	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	817.88	-56.53	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	2332.00	-41.59	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	6083.50	-35.91	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	0.11	-60.19	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	0.51	-59.29	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	863.28	-55.82	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	2669.40	-43.68	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	6021.38	-35.96	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	0.03	-60.86	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	0.33	-60.41	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	808.23	-56.98	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	2676.80	-43.81	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	6045.18	-36.20	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	0.13	-59.89	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	0.60	-59.32	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	941.12	-56.93	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	2331.80	-42.98	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	5954.88	-35.52	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	0.12	-59.70	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	0.69	-59.49	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	999.13	-56.66	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	2340.00	-43.72	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	5747.68	-36.07	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	0.05	-59.65	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	0.54	-59.55	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	961.01	-56.63	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	2693.20	-43.83	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	6026.98	-35.85	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	0.15	-60.22	-33.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	0.66	-59.59	-23.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	493.13	-56.43	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	2333.00	-43.05	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	6069.15	-35.80	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	0.04	-59.90	-33.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	0.39	-59.37	-23.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	544.49	-56.99	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	2686.40	-43.76	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	6126.73	-36.09	-13.0	PASS

Test Graphs

