

LTE Test Data-B13

General Description of EUT	
Product Name:	Tractive DOG 6 mini, Tractive CAT 6 mini
Test Model:	TG7A
Sample ID:	HC-C-202601-0392-5-02
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.88V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202601-0392-91. The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.19	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.24	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#24	21.73	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.09	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#6	20.82	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#13	20.49	34.8	PASS
Band13	5MHz	QPSK	23205	25RB#0	20.62	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#0	21.66	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#12	21.28	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.24	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#0	20.99	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.05	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.05	34.8	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.02	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#0	18.09	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#12	19.20	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#24	19.41	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.11	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.21	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.53	34.8	PASS
Band13	5MHz	QPSK	23255	25RB#0	20.01	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.86	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#12	20.89	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#24	20.46	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.33	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#6	19.81	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#13	19.56	34.8	PASS
Band13	5MHz	16QAM	23205	25RB#0	19.67	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#0	20.61	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#12	20.47	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.43	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.31	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.08	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.13	34.8	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.06	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#0	18.61	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#12	19.01	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#24	20.32	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.31	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.28	34.8	PASS

Band13	5MHz	16QAM	23255	12RB#13	20.69	34.8	PASS
Band13	5MHz	16QAM	23255	25RB#0	19.47	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#0	21.64	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#24	21.93	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.92	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#0	20.96	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#12	20.77	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.18	34.8	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.72	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#0	20.62	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.17	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.96	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#0	19.84	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#12	19.63	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.15	34.8	PASS

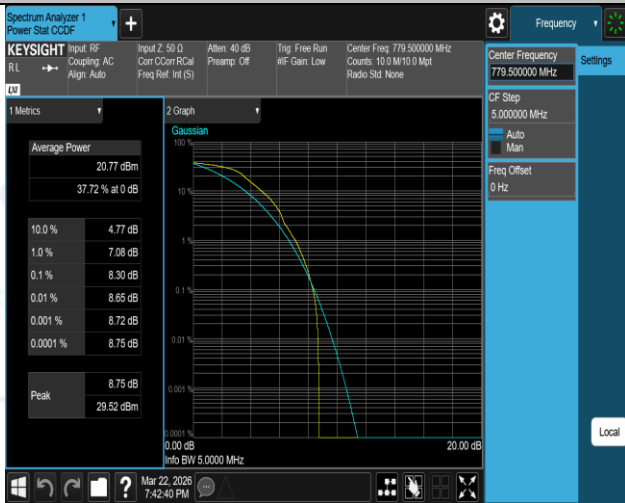
2: Peak-to-Average Ratio(CCDF)

Test Result

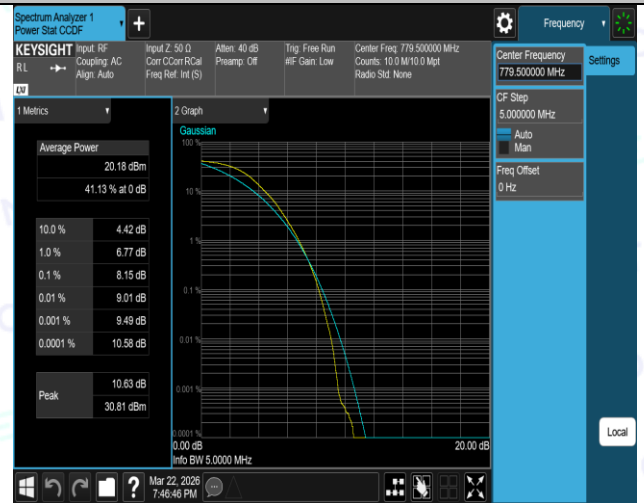
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	8.30	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	8.15	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	8.44	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.91	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	10.50	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.74	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	12.27	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	11.91	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	8.43	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.39	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	7.40	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.29	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.62	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.65	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.47	13	PASS

Test Graphs

Band13-5MHz-QPSK-23205-1RB#0-PASS



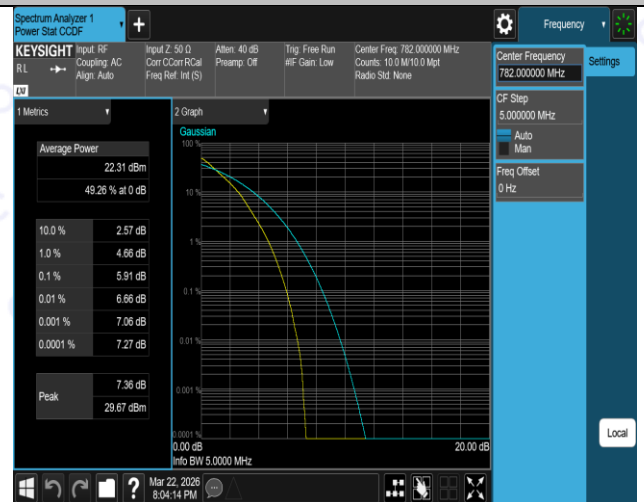
Band13-5MHz-QPSK-23205-25RB#0-PASS



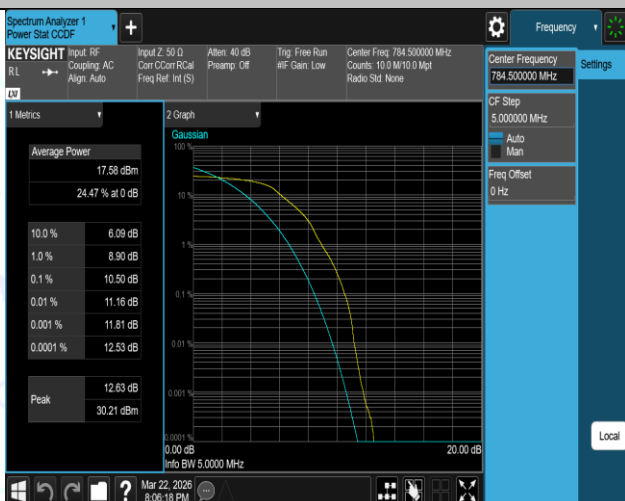
Band13-5MHz-QPSK-23230-1RB#0-PASS



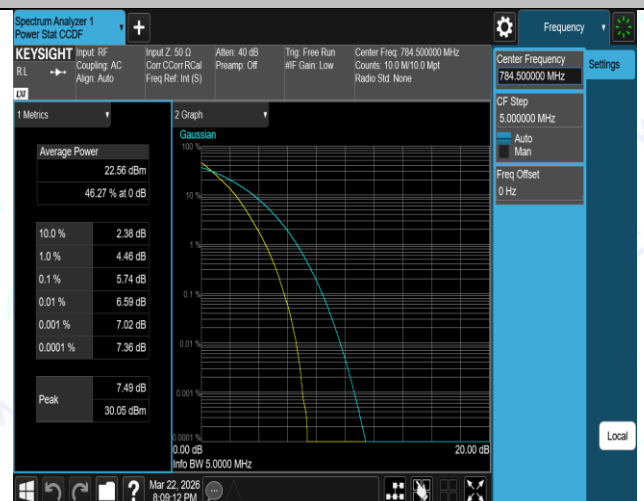
Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-1RB#0-PASS



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



Band13-5MHz-16QAM-23205-1RB#0-PASS

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



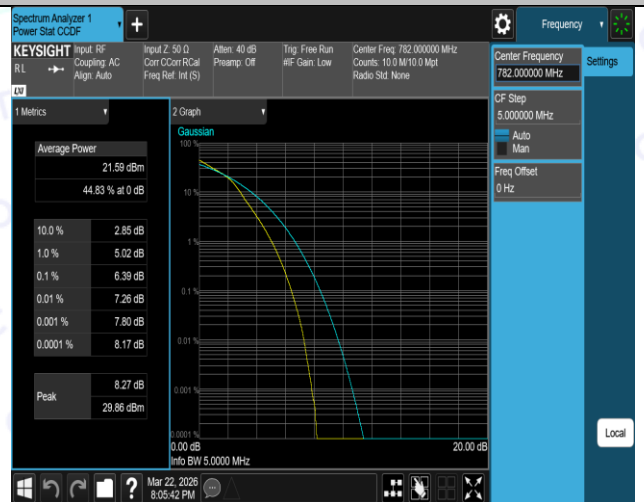
Band13-5MHz-16QAM-23230-1RB#0-PASS



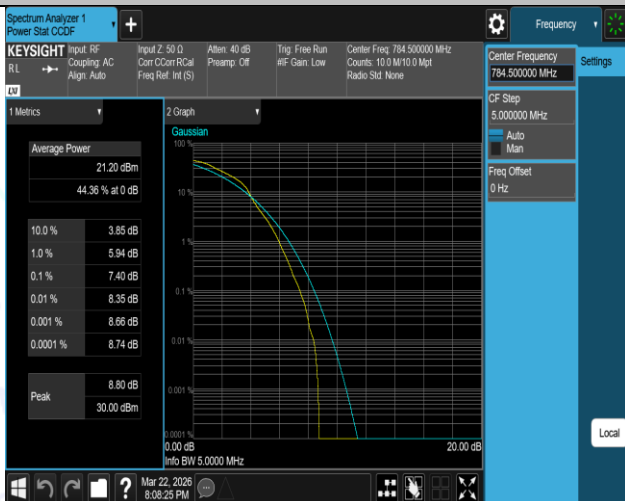
Band13-5MHz-16QAM-23230-25RB#0-PASS



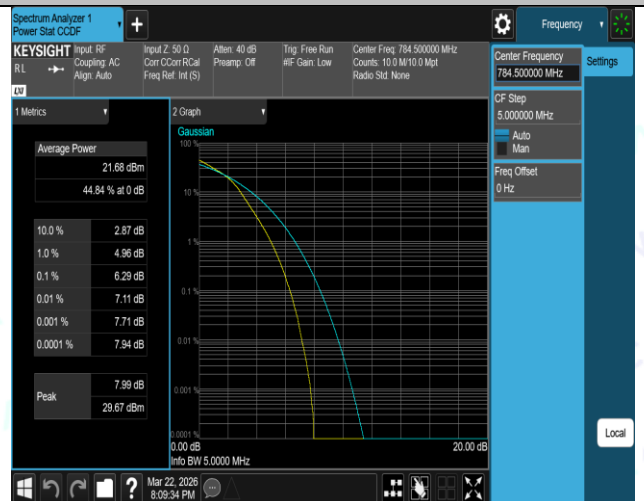
Band13-5MHz-16QAM-23255-1RB#0-PASS



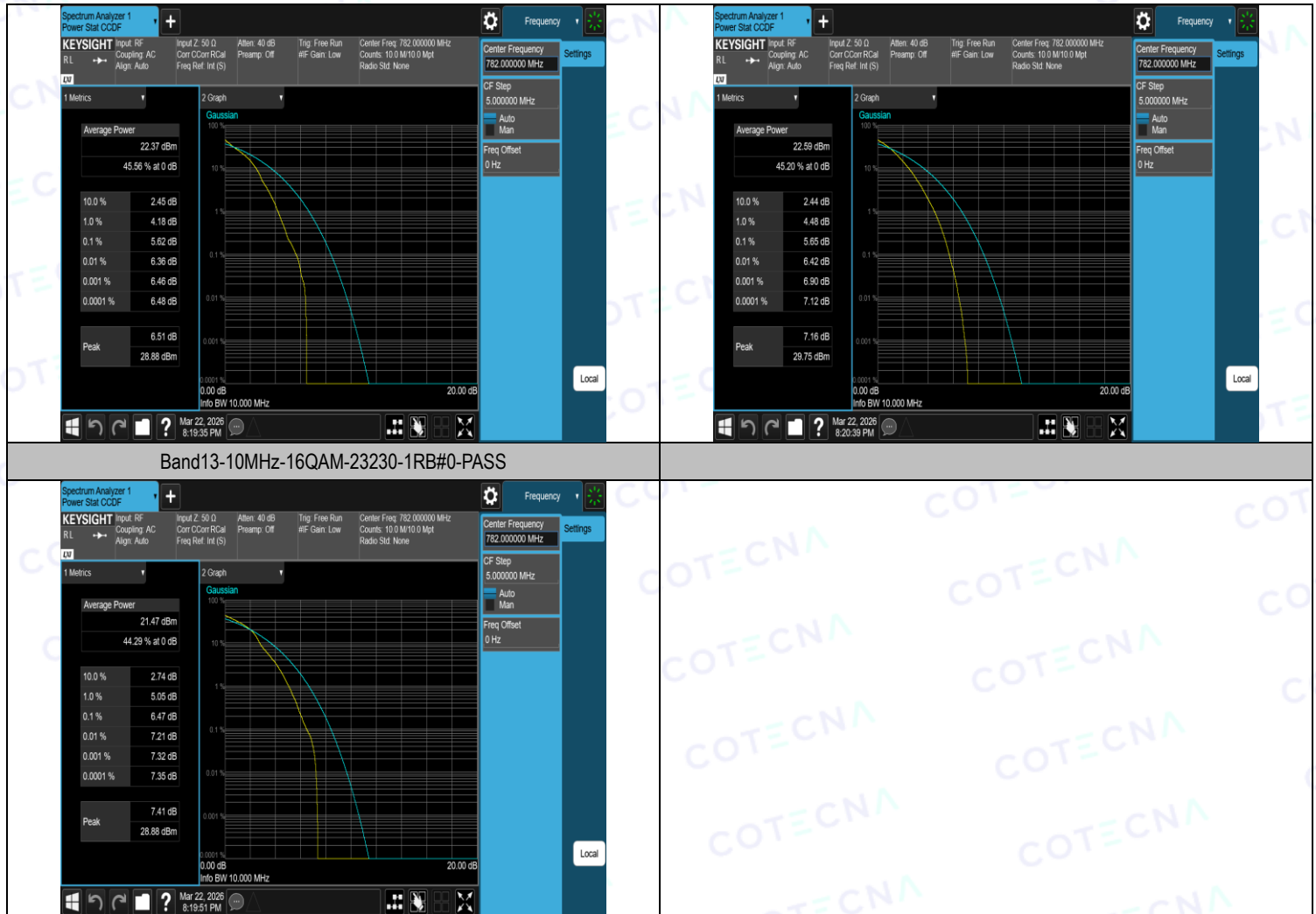
Band13-5MHz-16QAM-23255-25RB#0-PASS



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



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

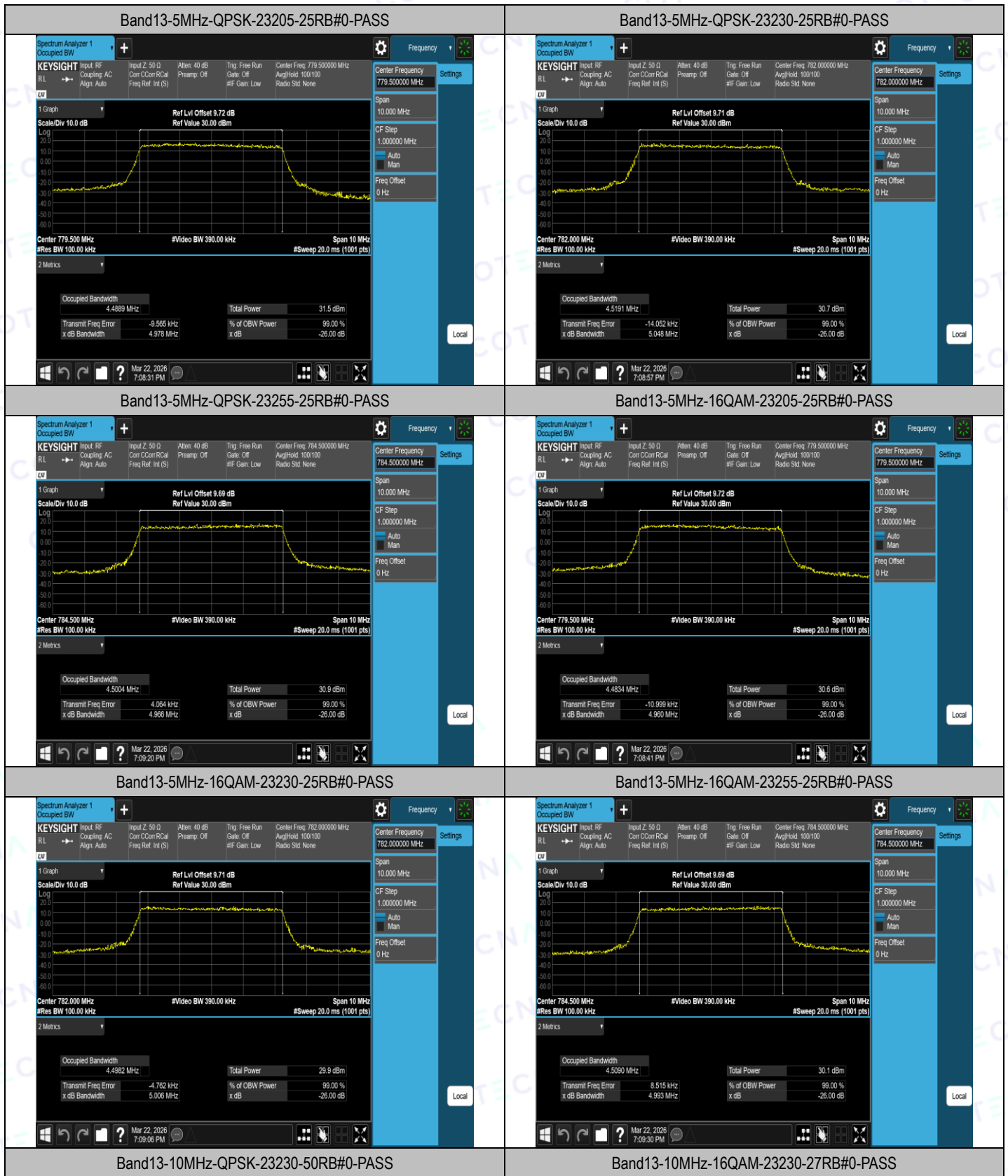


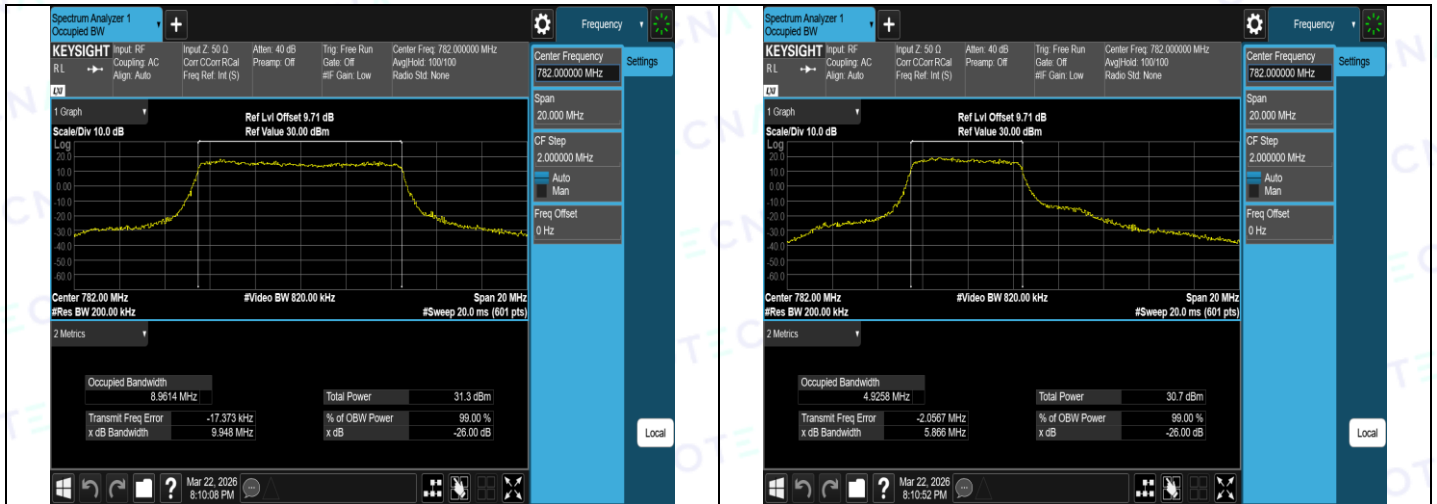
3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4889	4.978	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5191	5.048	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5004	4.966	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4834	4.960	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4982	5.006	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5090	4.993	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9614	9.948	PASS
Band13	10MHz	16QAM	23230	27RB#0	4.9258	5.866	PASS

Test Graphs



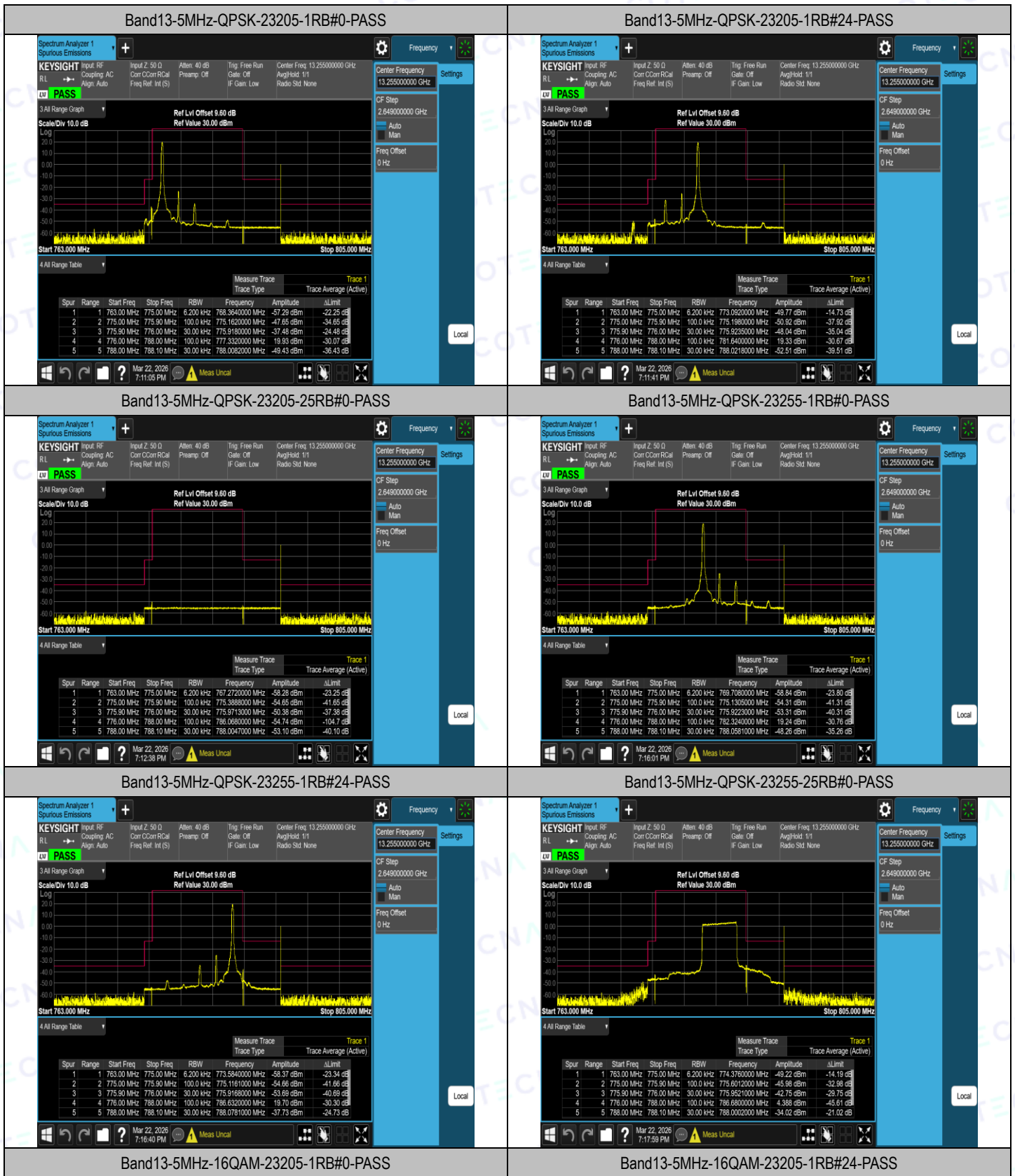


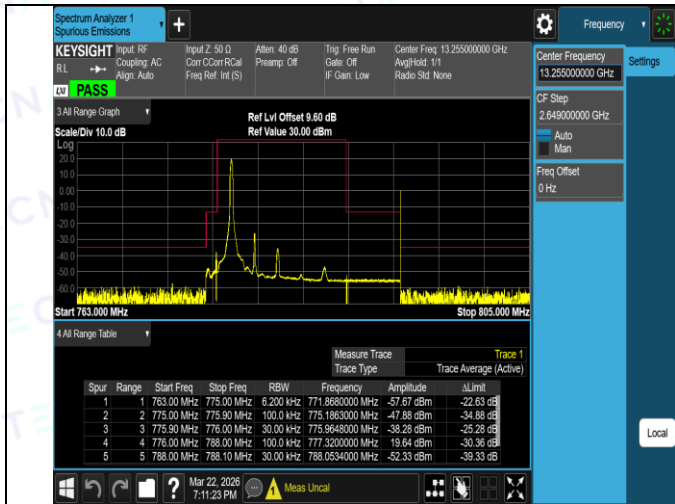
4: Band Edge

Test Result

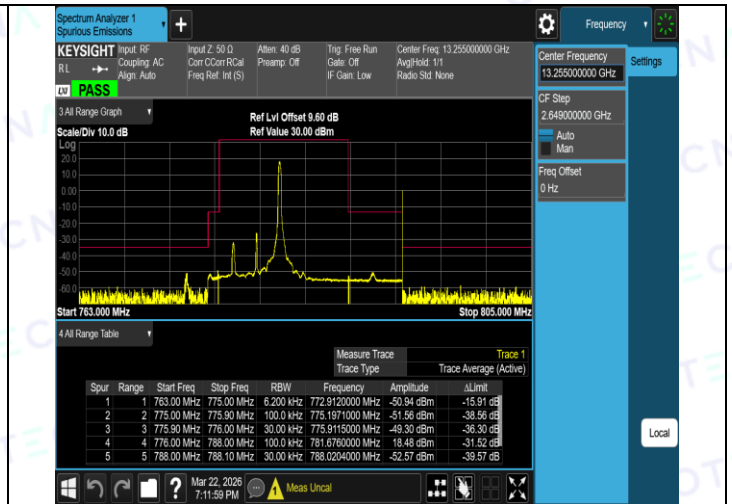
Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-57.29	22.29	PASS
Band13	5MHz	QPSK	23205	1RB#24	-49.77	14.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	-58.28	23.28	PASS
Band13	5MHz	QPSK	23255	1RB#0	-58.84	23.84	PASS
Band13	5MHz	QPSK	23255	1RB#24	-58.37	23.37	PASS
Band13	5MHz	QPSK	23255	25RB#0	-49.22	14.22	PASS
Band13	5MHz	16QAM	23205	1RB#0	-57.67	22.67	PASS
Band13	5MHz	16QAM	23205	1RB#24	-50.94	15.94	PASS
Band13	5MHz	16QAM	23205	25RB#0	-58.57	23.57	PASS
Band13	5MHz	16QAM	23255	1RB#0	-58.09	23.09	PASS
Band13	5MHz	16QAM	23255	1RB#24	-58.87	23.87	PASS
Band13	5MHz	16QAM	23255	25RB#0	-53.30	18.30	PASS
Band13	10MHz	QPSK	23230	1RB#0	-58.81	23.81	PASS
Band13	10MHz	QPSK	23230	1RB#49	-59.02	24.02	PASS
Band13	10MHz	QPSK	23230	50RB#0	-48.52	13.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	-57.78	22.78	PASS
Band13	10MHz	16QAM	23230	1RB#49	-58.26	23.26	PASS

Test Graphs

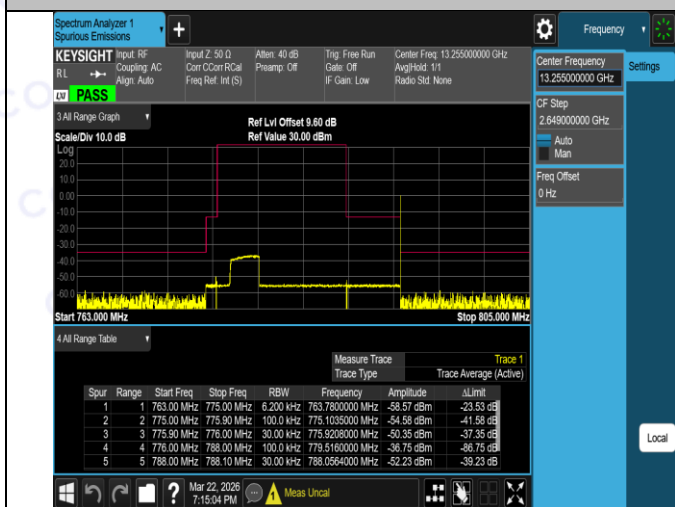




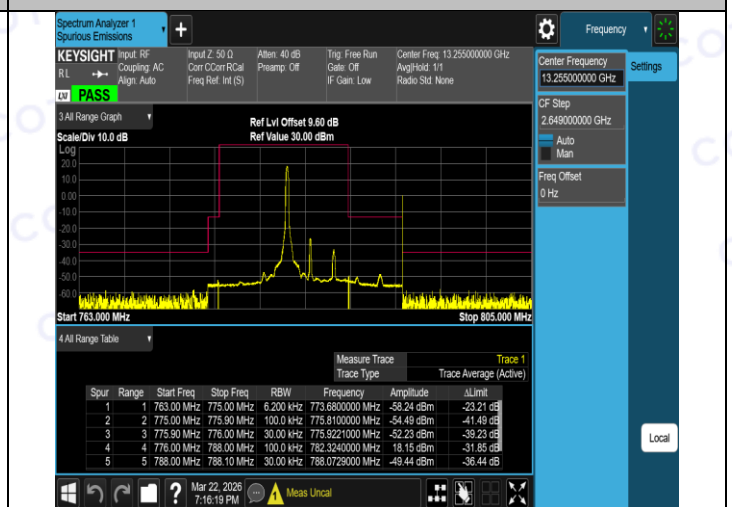
Band13-5MHz-16QAM-23205-25RB#0-PASS



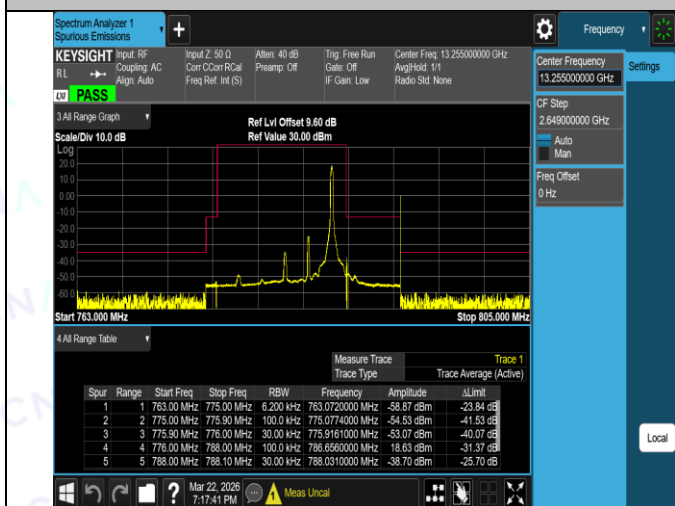
Band13-5MHz-16QAM-23255-1RB#0-PASS



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



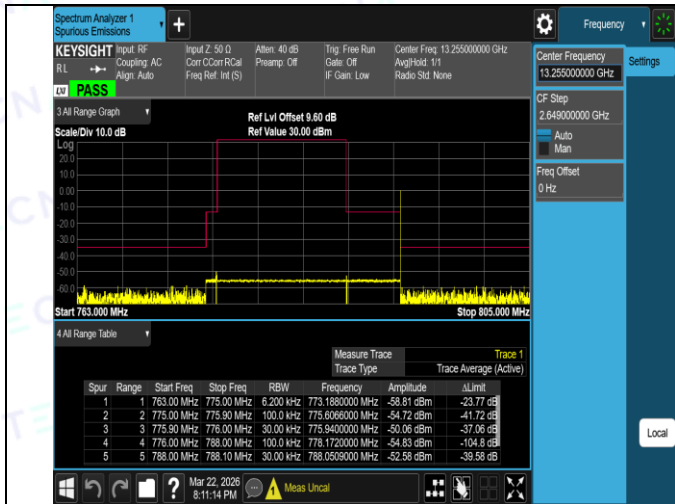
Band13-5MHz-16QAM-23255-25RB#0-PASS



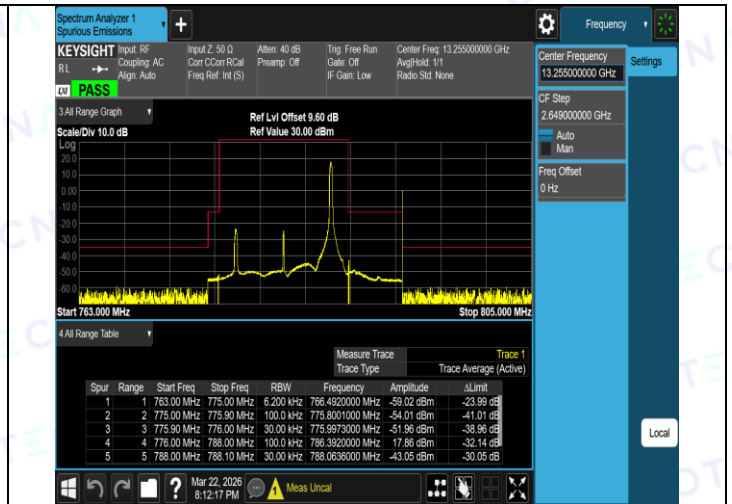
Band13-10MHz-QPSK-23230-1RB#0-PASS



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



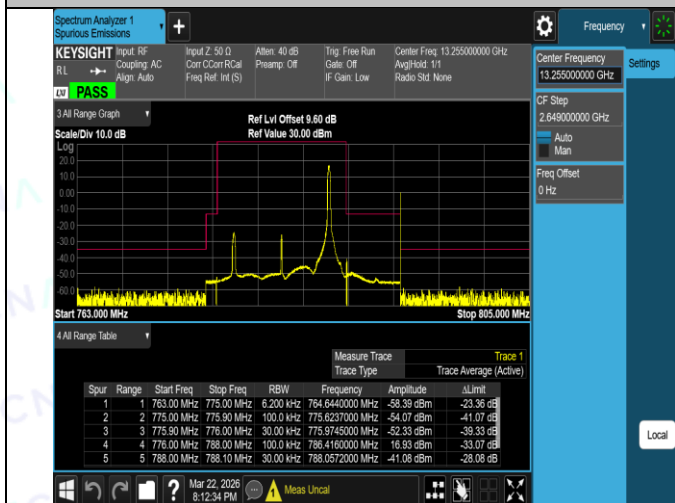
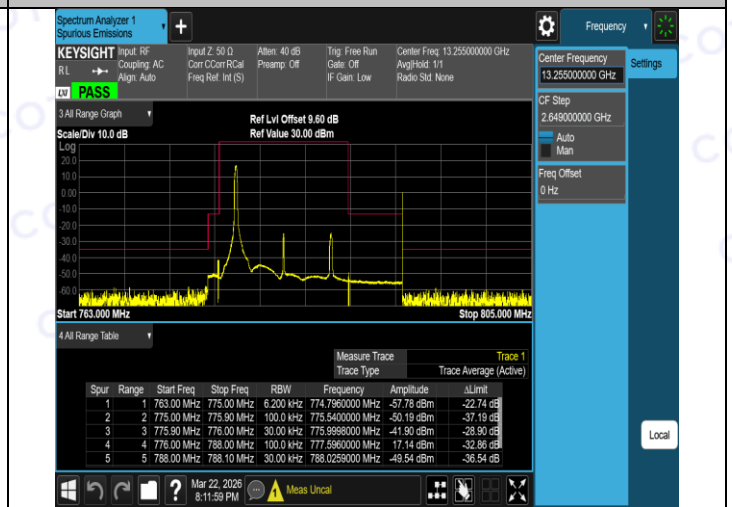
Band13-10MHz-QPSK-23230-50RB#0-PASS



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	0.11	-61.15	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	0.36	-59.99	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	746.64	-57.24	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	2592.60	-44.40	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	5981.65	-36.40	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	0.03	-60.99	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	0.54	-60.29	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	468.54	-56.95	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	2704.40	-44.31	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	3061.25	-35.85	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	0.14	-61.77	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	0.69	-58.67	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	966.39	-56.36	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	2347.20	-43.94	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	6022.43	-36.64	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	0.11	-59.24	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	0.42	-60.56	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	844.22	-57.00	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	2332.00	-42.70	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	5962.75	-36.31	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	0.05	-60.50	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	0.51	-59.98	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	917.02	-56.97	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	2339.60	-42.50	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	3181.30	-36.49	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	0.09	-59.19	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	0.66	-60.62	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	939.23	-57.15	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	2676.20	-44.01	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	3175.88	-36.42	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	0.14	-59.93	-33.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	0.51	-60.04	-23.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	854.40	-57.65	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	2689.60	-44.00	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	3060.03	-36.19	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	0.13	-59.10	-33.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	0.87	-59.89	-23.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	864.49	-56.85	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	2332.80	-42.81	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	3034.83	-36.55	-13.0	PASS

Test Graphs

