

LTE BAND13 Test Data

General Description of EUT	
Product Name:	4G Battery Camera
Test Model:	CQ1H
Sample ID:	HC-C-202405-0318-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202405-0318-6 . 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)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.25	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.88	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.70	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.17	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.13	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.80	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.02	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.85	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.48	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.28	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.71	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.68	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.33	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.47	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.78	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.38	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.57	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.57	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.52	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.30	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.36	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.25	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.09	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.71	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.23	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.17	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.99	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.18	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.62	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.17	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.10	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.87	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.86	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.52	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.56	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.95	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.51	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.55	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.63	PASS

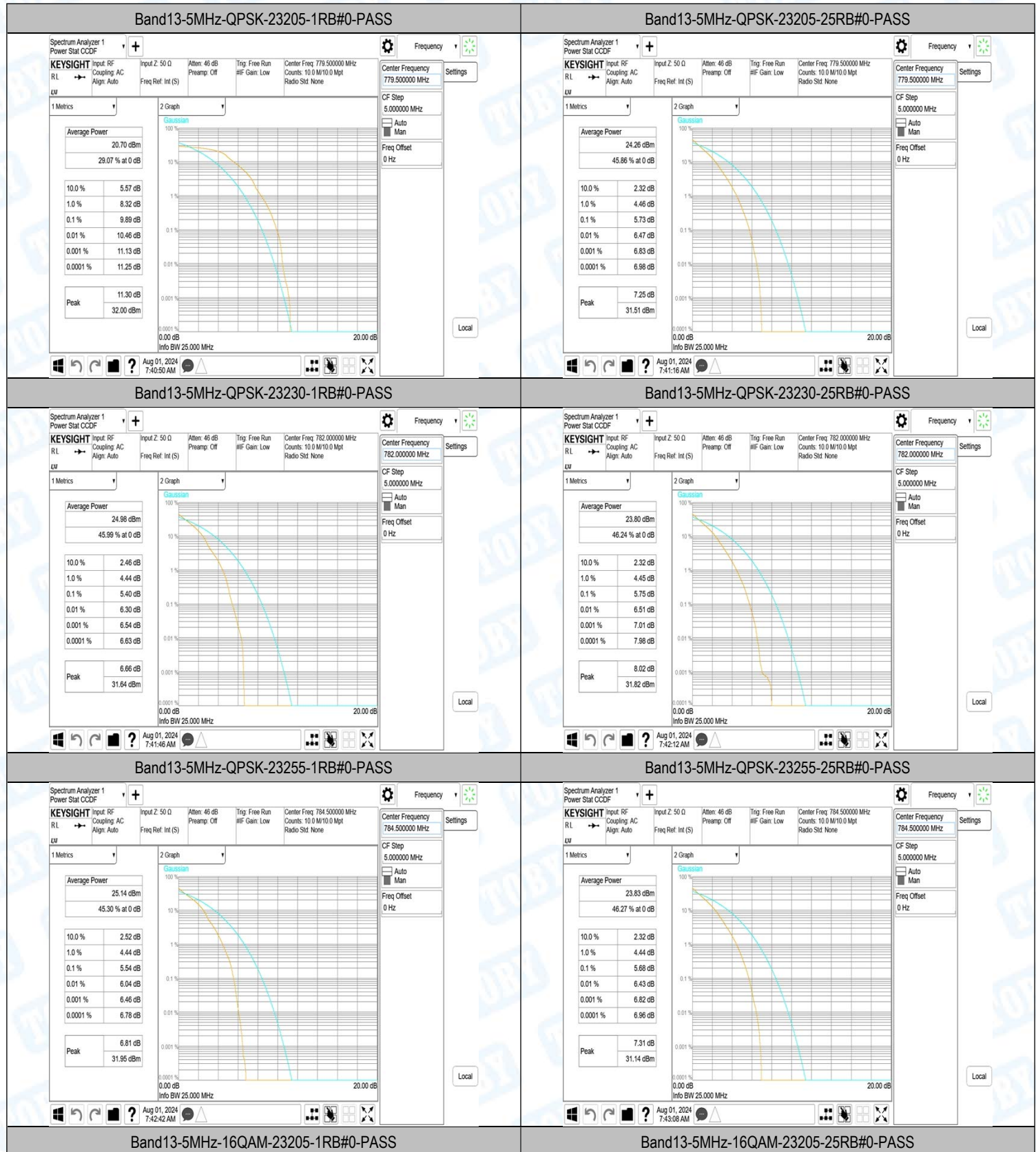
Band13	5MHz	16QAM	23255	12RB#6	20.58	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.38	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.33	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.02	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.23	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.21	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.54	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.38	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.45	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.65	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.08	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.38	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.39	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.74	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.35	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.67	PASS

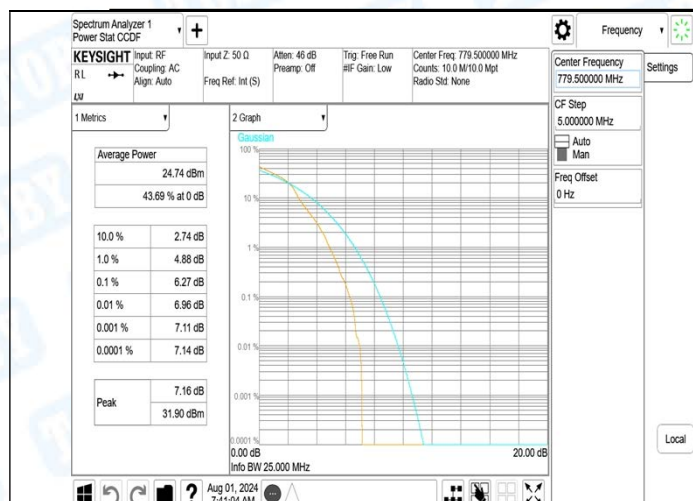
2: Peak-to-Average Ratio(CCDF)

Test Result

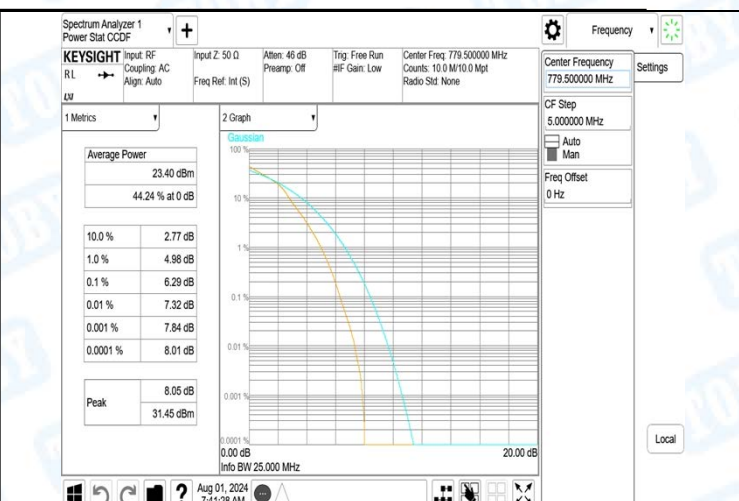
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	9.89	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.73	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.40	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.75	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.54	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.68	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	6.27	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.29	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.39	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.47	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.26	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.25	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.53	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	7.81	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.27	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	8.27	13	PASS

Test Graphs

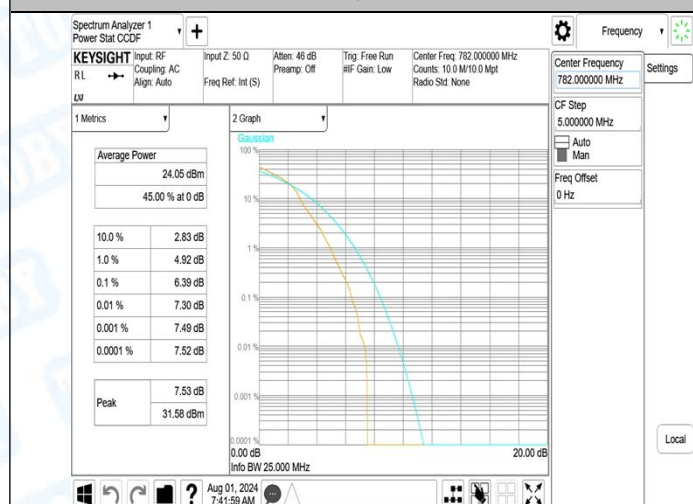




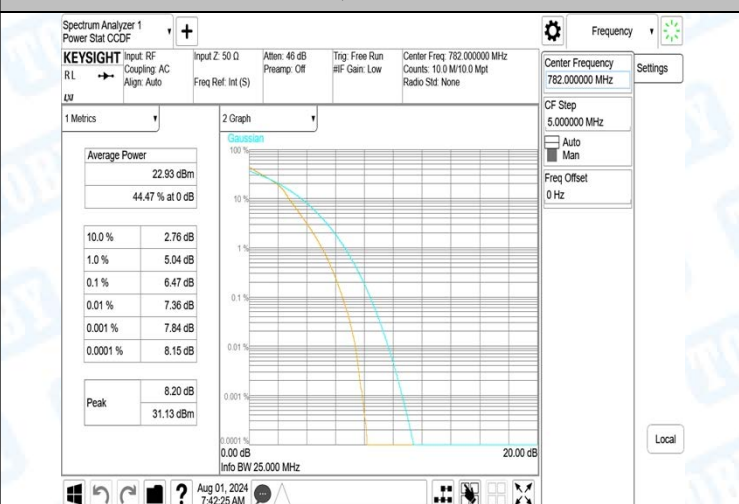
Band13-5MHz-16QAM-23230-1RB#0-PASS



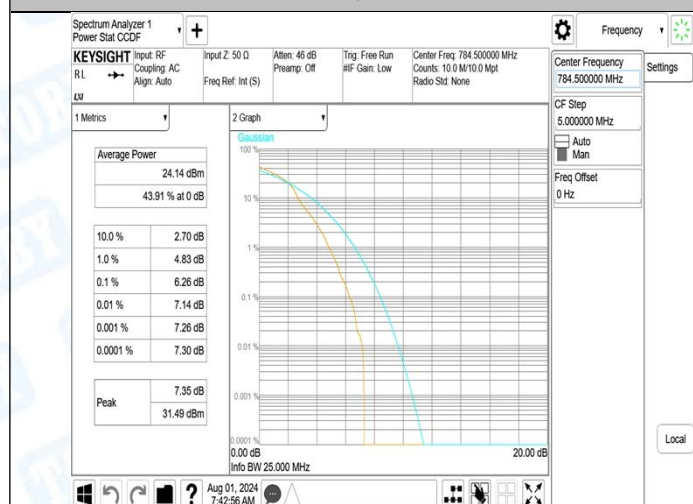
Band13-5MHz-16QAM-23230-25RB#0-PASS



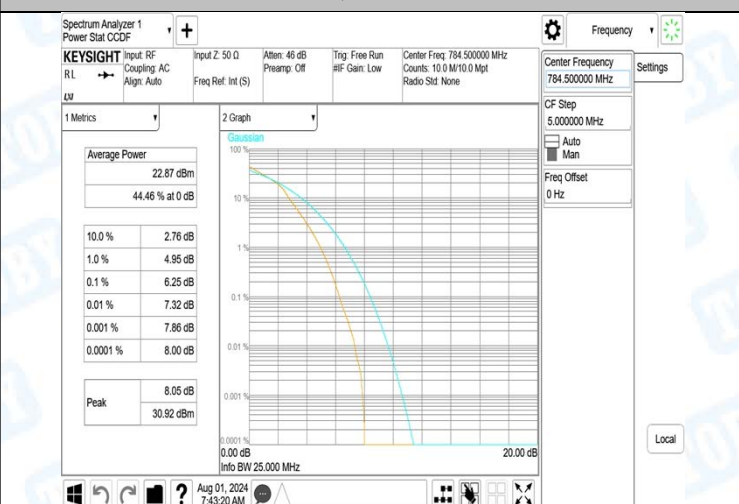
Band13-5MHz-16QAM-23255-1RB#0-PASS



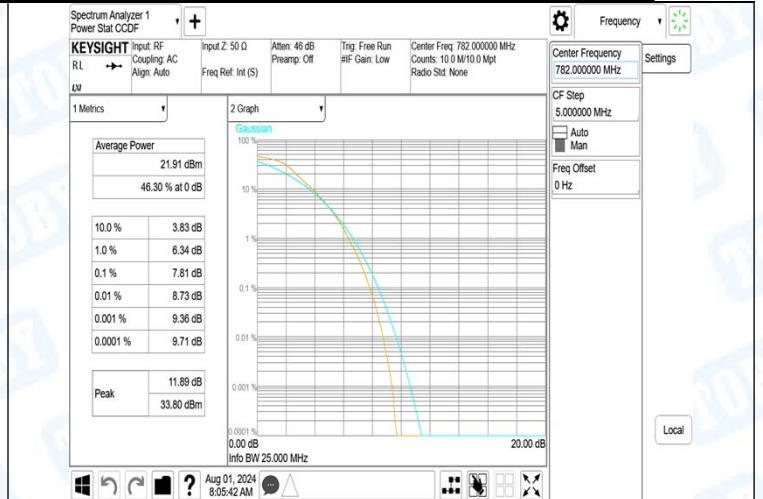
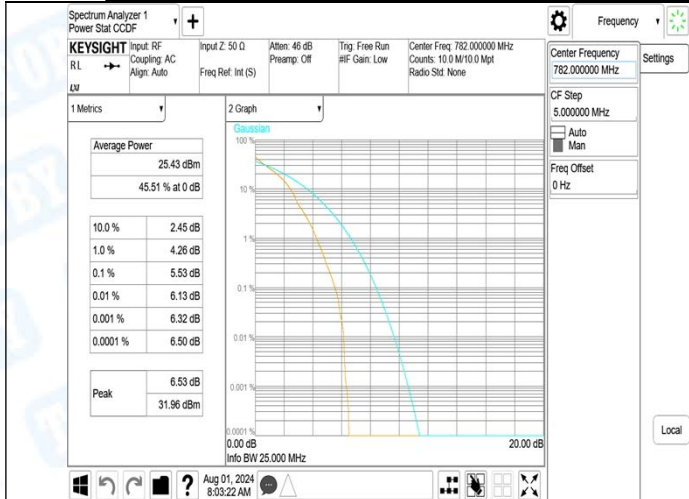
Band13-5MHz-16QAM-23255-25RB#0-PASS



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

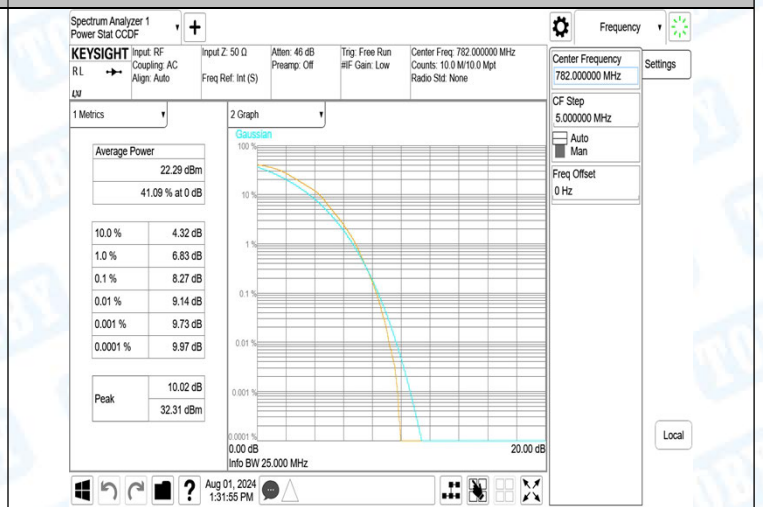
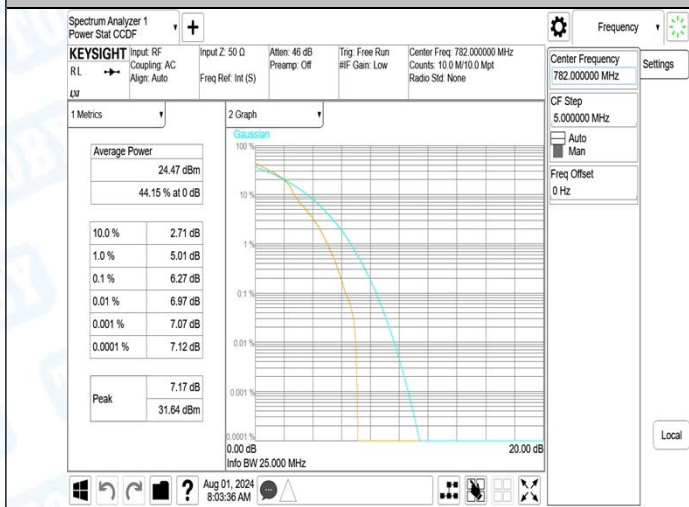


Band13-10MHz-QPSK-23230-50RB#0-PASS



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

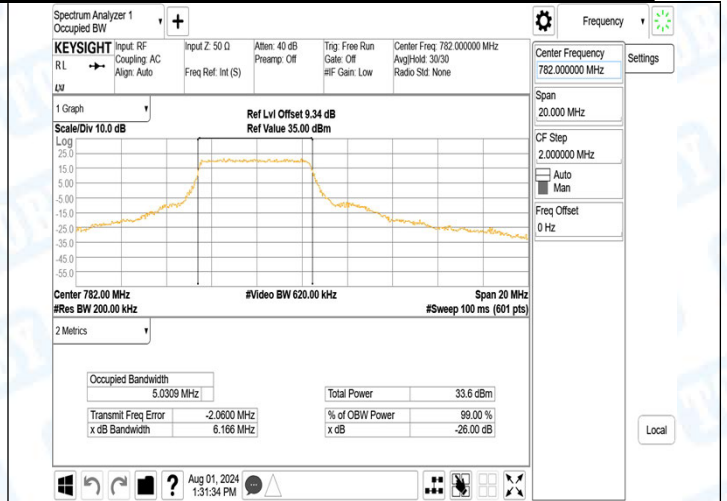
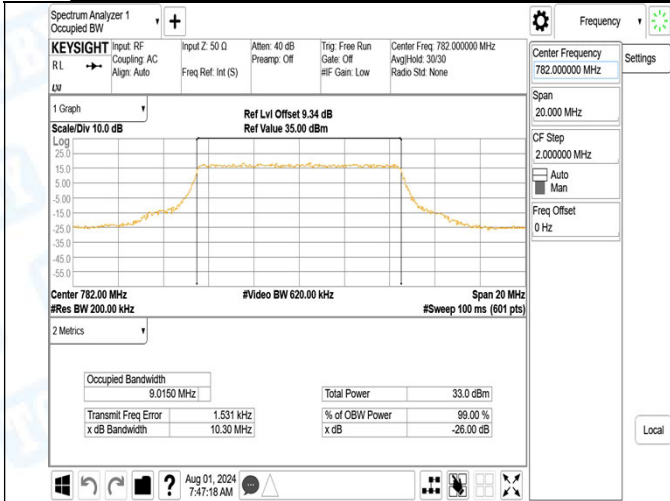
Band13-10MHz-16QAM-23230-27RB#0-PASS



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	4.5089	5.123	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5191	5.113	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5063	5.044	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5164	5.109	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5045	5.069	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5047	5.060	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0150	10.30	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.0309	6.166	PASS

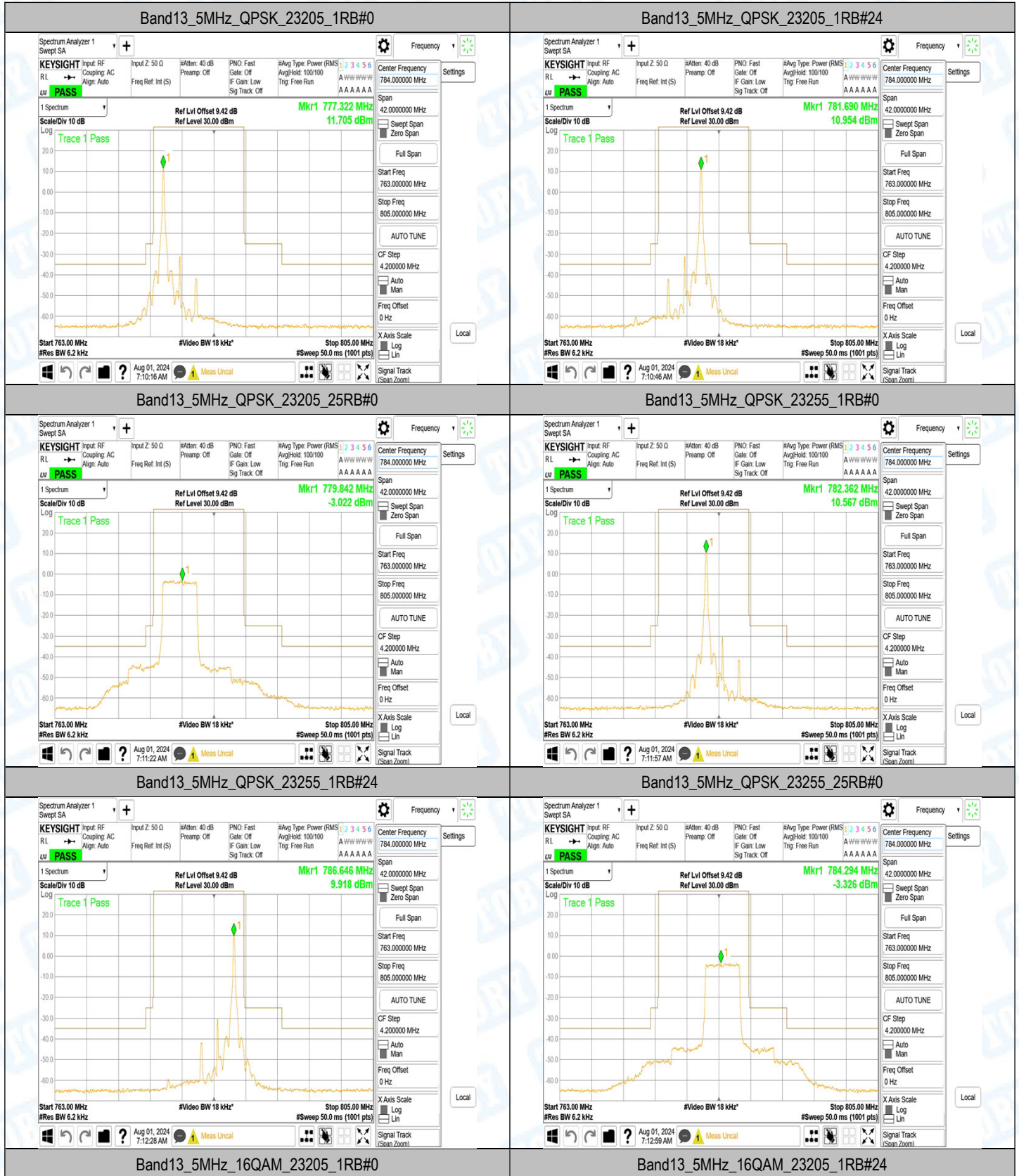


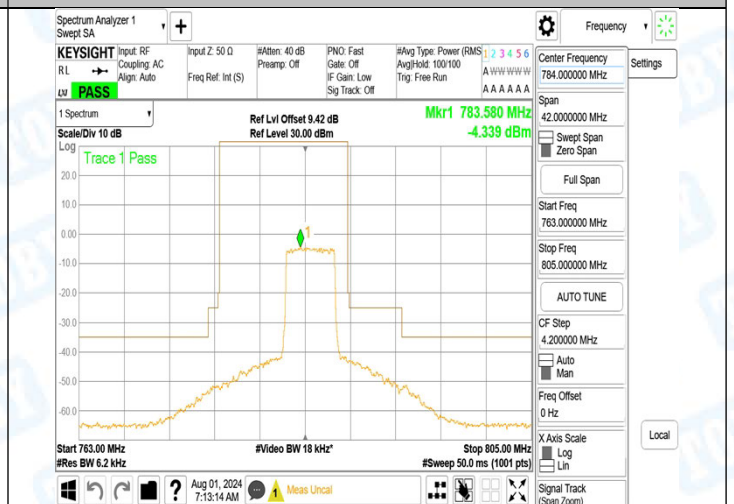
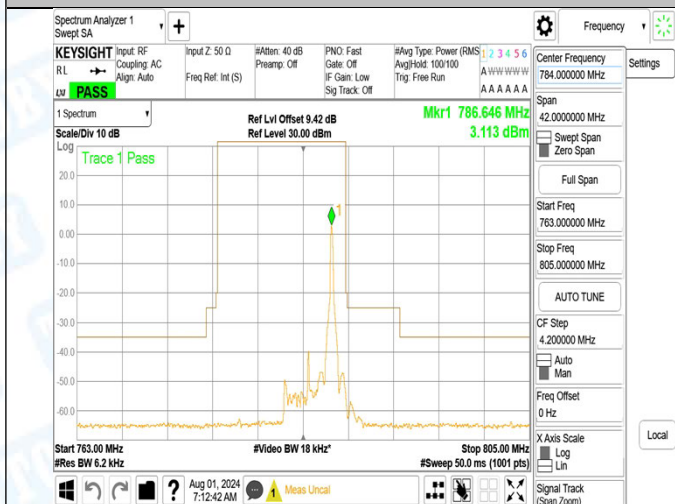
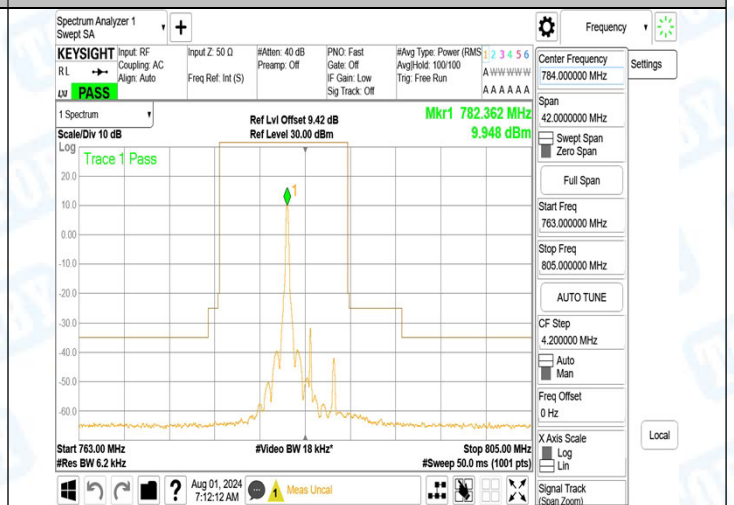
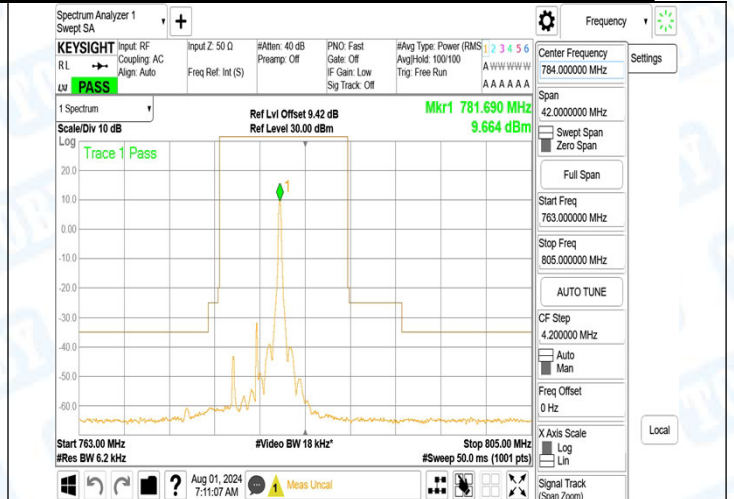
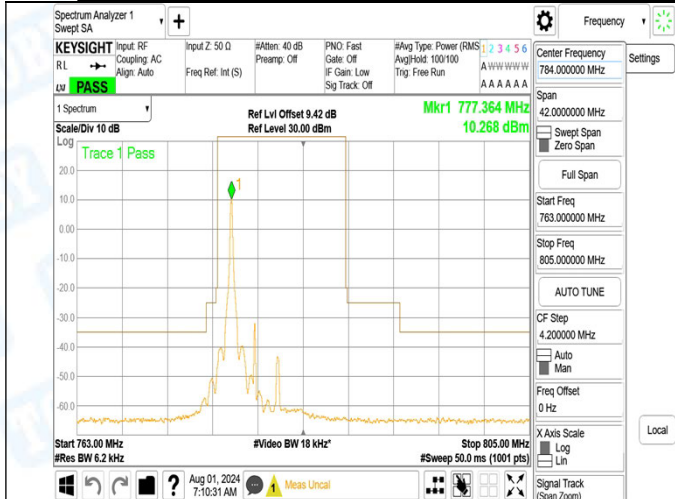
4: Band Edge

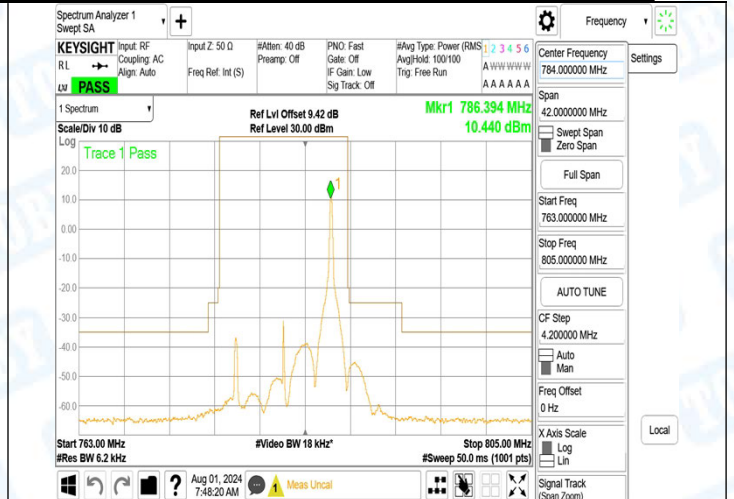
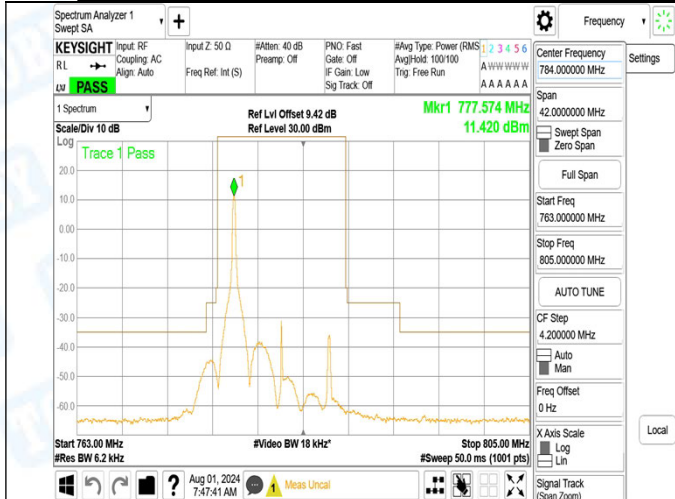
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-56.09	21.09	PASS
Band13	5MHz	QPSK	23205	1RB#24	-60.42	25.42	PASS
Band13	5MHz	QPSK	23205	25RB#0	-43.63	8.63	PASS
Band13	5MHz	QPSK	23255	1RB#0	-63.79	28.79	PASS
Band13	5MHz	QPSK	23255	1RB#24	-49.58	24.48	PASS
Band13	5MHz	QPSK	23255	25RB#0	-50.15	15.15	PASS
Band13	5MHz	16QAM	23205	1RB#0	-57.27	22.27	PASS
Band13	5MHz	16QAM	23205	1RB#24	-60.88	25.88	PASS
Band13	5MHz	16QAM	23205	25RB#0	-44.62	9.62	PASS
Band13	5MHz	16QAM	23255	1RB#0	-63.96	28.96	PASS
Band13	5MHz	16QAM	23255	1RB#24	-63.76	28.76	PASS
Band13	5MHz	16QAM	23255	25RB#0	-51.36	16.36	PASS
Band13	10MHz	QPSK	23230	1RB#0	-46.41	11.41	PASS
Band13	10MHz	QPSK	23230	1RB#49	-45.20	20.10	PASS
Band13	10MHz	QPSK	23230	50RB#0	-46.53	11.53	PASS
Band13	10MHz	16QAM	23230	1RB#0	-47.42	12.42	PASS
Band13	10MHz	16QAM	23230	1RB#49	-45.71	20.61	PASS

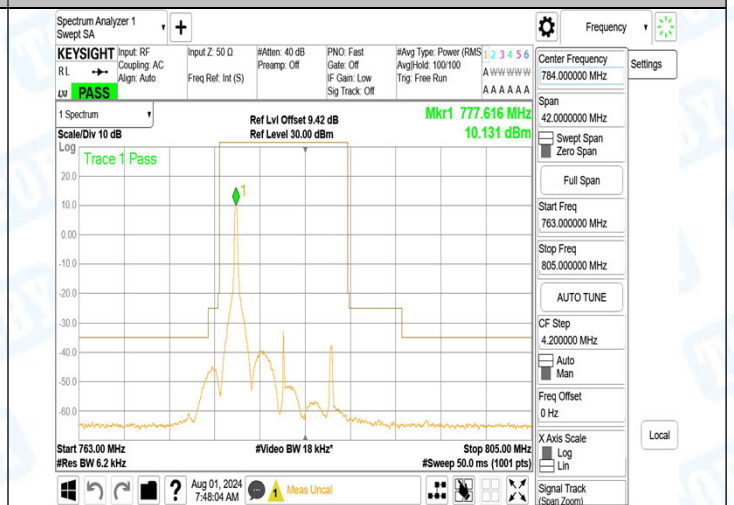
Test Graphs



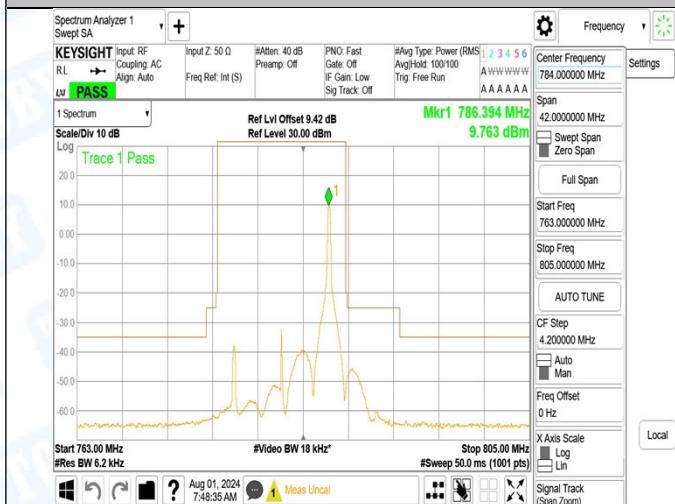




Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_1RB#49



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	-57.41	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	0.18	-72.94	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	671.17	-59.98	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	2668.60	-42.27	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	5933.70	-36.28	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.009~0.15	0.01	-56.03	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.15~30	0.18	-72.36	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	30~1000	898.64	-60.21	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	1000~3000	2716.05	-42.31	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	3000~10000	3050.23	-36.27	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	0.01	-69.37	-33.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	0.15	-72.98	-23.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	792.91	-48.54	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	2652.20	-42.18	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	3052.15	-36.14	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	0.01	-56.44	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	0.15	-72.39	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	667.78	-59.73	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	2665.45	-41.79	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	5996.35	-36.29	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.009~0.15	0.01	-55.61	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.15~30	0.15	-72.92	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	30~1000	661.96	-60.00	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	1000~3000	2697.75	-42.62	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	3000~10000	3183.58	-36.18	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	0.02	-60.98	-33.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	0.15	-73.99	-23.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	794.85	-49.95	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	2690.85	-42.44	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	3179.73	-36.10	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	0.01	-56.89	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	0.15	-72.13	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	938.41	-60.06	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	2685.10	-42.81	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	3046.38	-35.88	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.009~0.15	0.01	-53.39	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.15~30	0.15	-72.16	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	30~1000	658.56	-59.43	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	1000~3000	2682.85	-42.38	-13.0	PASS

Band13	5MHz	QPSK	23255	1RB#24	3000~10000	3183.05	-35.87	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	0.01	-68.82	-33.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	0.15	-70.02	-23.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	769.63	-60.55	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	2675.20	-42.36	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	3176.40	-35.91	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	0.01	-51.54	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	0.18	-73.53	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	671.17	-59.91	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	2683.50	-42.24	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	3043.75	-35.94	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.009~0.15	0.01	-52.68	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.15~30	0.15	-72.01	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	30~1000	901.55	-60.26	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	1000~3000	2686.10	-42.51	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	3000~10000	3198.45	-36.15	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	0.01	-63.95	-33.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	0.15	-73.37	-23.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	792.42	-50.76	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	2813.65	-42.65	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	5977.80	-36.25	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	0.01	-51.53	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	0.15	-72.96	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	667.78	-59.91	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	2671.40	-42.00	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	6251.68	-36.28	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.009~0.15	0.01	-52.17	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.15~30	0.15	-72.74	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	30~1000	989.33	-60.18	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	1000~3000	2710.00	-42.47	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	3000~10000	3168.18	-35.62	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	0.01	-58.66	-33.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	0.15	-72.27	-23.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	794.85	-51.25	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	2666.10	-42.76	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	5891.88	-36.09	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	0.01	-52.76	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	0.15	-71.69	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	828.31	-60.82	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	2695.30	-42.58	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	6023.13	-35.83	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.009~0.15	0.01	-51.52	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.15~30	0.15	-72.84	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	30~1000	658.56	-59.71	-13.0	PASS