

LTE Bnad40 Test Data

General Description of EUT	
Product Name:	Tablet
Test Model:	B7
Test Standard:	FCC Part 2 FCC Part 27
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.85V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202503-3450-115 . The report only show the worst case data.	

Contents

LTE Bnad40 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)	Verdict
40(2305-2315)	5MHz	QPSK	38725	1RB#0	22.76	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#12	23.17	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#24	22.76	PASS
40(2305-2315)	5MHz	QPSK	38725	12RB#0	21.78	PASS
40(2305-2315)	5MHz	QPSK	38725	12RB#6	21.87	PASS
40(2305-2315)	5MHz	QPSK	38725	12RB#13	21.80	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#0	21.80	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	22.74	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#12	23.11	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#24	22.76	PASS
40(2305-2315)	5MHz	QPSK	38750	12RB#0	21.80	PASS
40(2305-2315)	5MHz	QPSK	38750	12RB#6	21.90	PASS
40(2305-2315)	5MHz	QPSK	38750	12RB#13	21.78	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	21.78	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	22.87	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#12	23.22	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#24	22.84	PASS
40(2305-2315)	5MHz	QPSK	38775	12RB#0	21.80	PASS
40(2305-2315)	5MHz	QPSK	38775	12RB#6	21.93	PASS
40(2305-2315)	5MHz	QPSK	38775	12RB#13	21.83	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	21.81	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	22.10	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#12	22.48	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#24	22.07	PASS
40(2305-2315)	5MHz	16QAM	38725	12RB#0	20.71	PASS
40(2305-2315)	5MHz	16QAM	38725	12RB#6	20.78	PASS
40(2305-2315)	5MHz	16QAM	38725	12RB#13	20.75	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	20.75	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	21.85	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#12	22.17	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#24	21.83	PASS
40(2305-2315)	5MHz	16QAM	38750	12RB#0	20.75	PASS
40(2305-2315)	5MHz	16QAM	38750	12RB#6	20.78	PASS
40(2305-2315)	5MHz	16QAM	38750	12RB#13	20.81	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	20.78	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	21.86	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#12	22.18	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#24	21.79	PASS
40(2305-2315)	5MHz	16QAM	38775	12RB#0	20.70	PASS

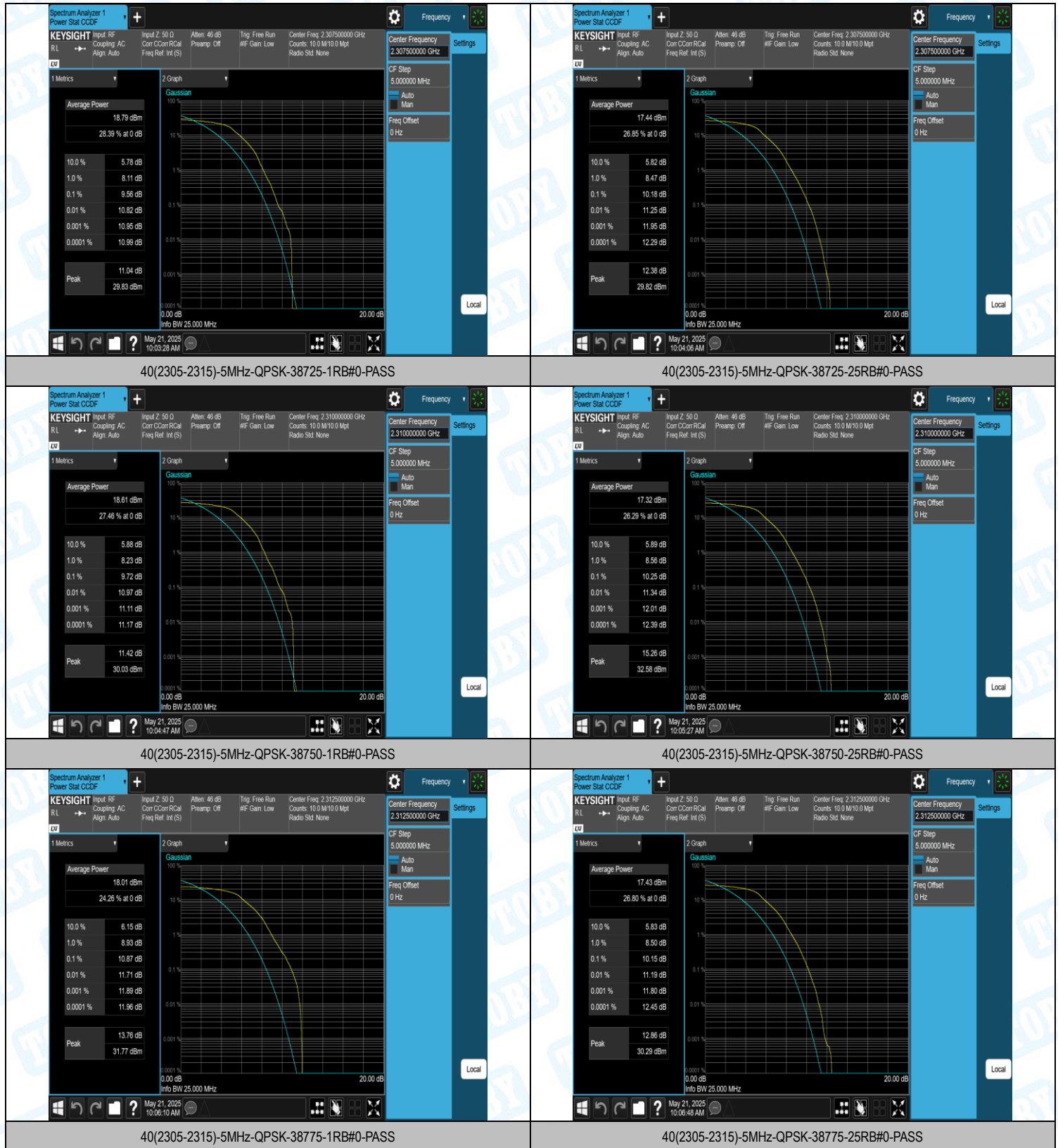
40(2305-2315)	5MHz	16QAM	38775	12RB#6	20.79	PASS
40(2305-2315)	5MHz	16QAM	38775	12RB#13	20.74	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	20.73	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	22.84	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#24	23.03	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#49	22.90	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#0	21.84	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#12	21.86	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#25	21.84	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	21.89	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	21.52	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#24	21.61	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#49	21.54	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#0	20.80	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#12	20.82	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#25	20.87	PASS
40(2305-2315)	10MHz	16QAM	38750	50RB#0	20.82	PASS

2: Peak-to-Average Ratio(CCDF)

Test Result

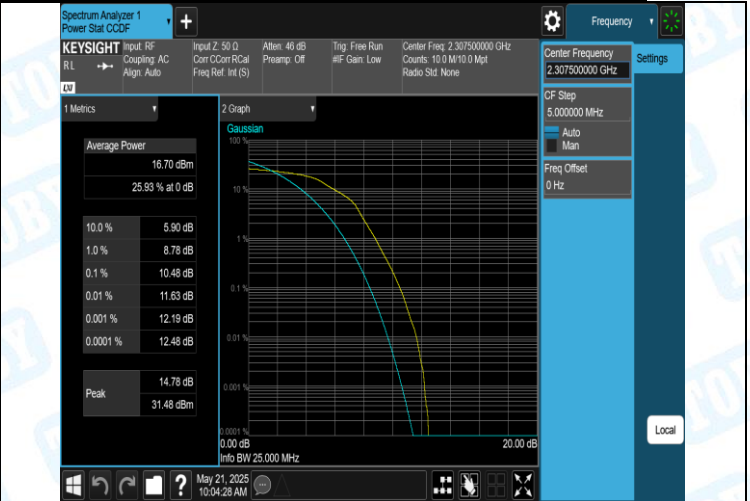
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
40(2305-2315)	5MHz	QPSK	38725	1RB#0	9.56	13	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#0	10.18	13	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	9.72	13	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	10.25	13	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	10.87	13	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	10.15	13	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	10.97	13	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	10.48	13	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	11.13	13	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	10.72	13	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	11.01	13	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	10.61	13	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	10.38	13	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	10.49	13	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	10.88	13	PASS
40(2305-2315)	10MHz	16QAM	38750	50RB#0	10.84	13	PASS

Test Graphs





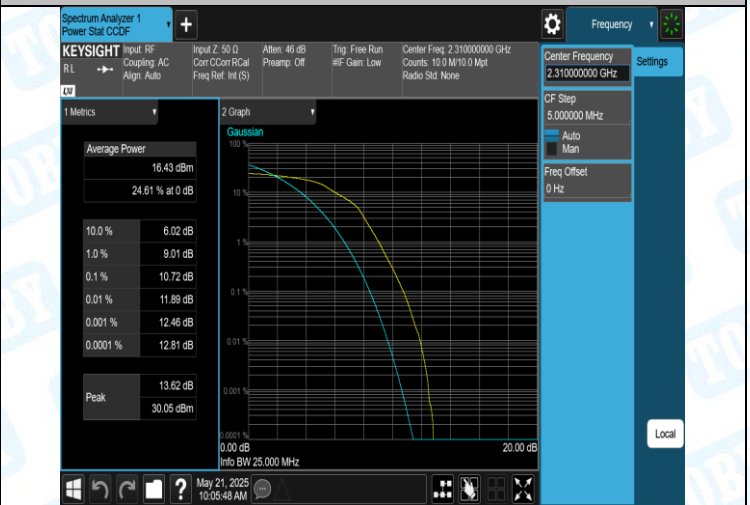
40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS



40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS



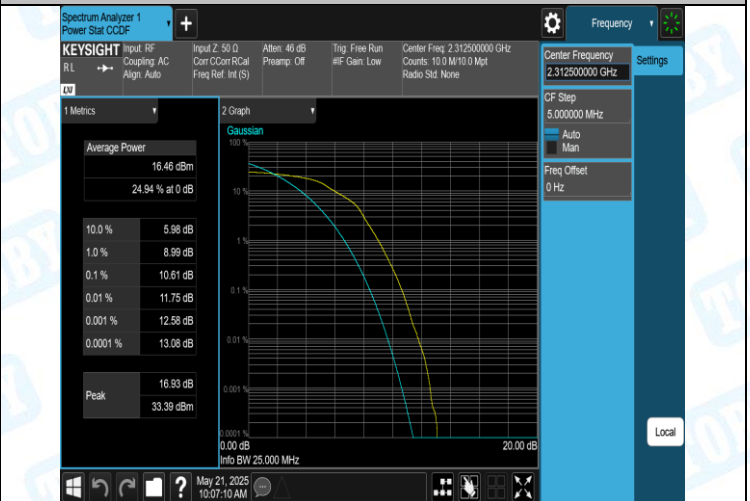
40(2305-2315)-5MHz-16QAM-38750-1RB#0-PASS



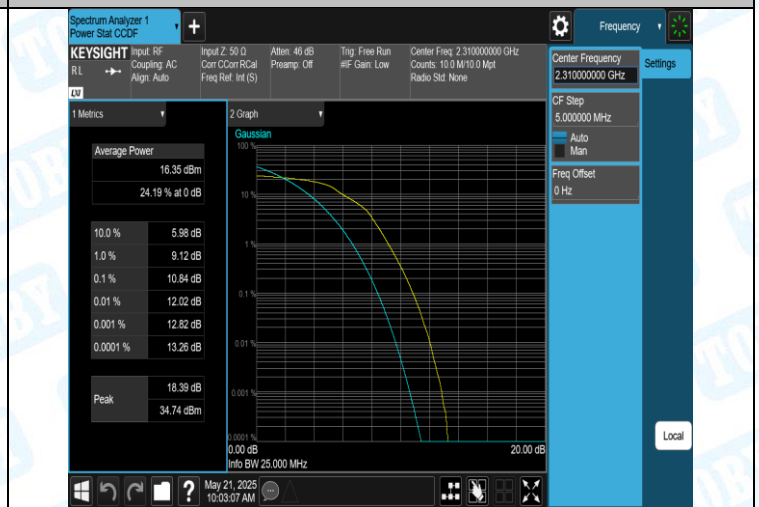
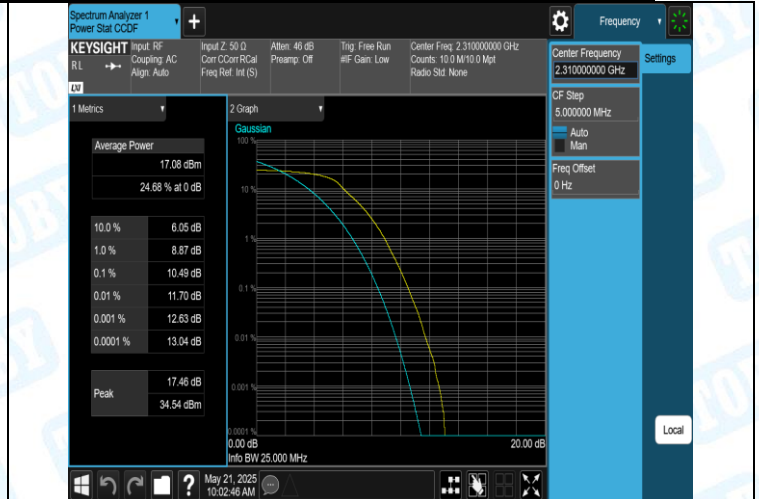
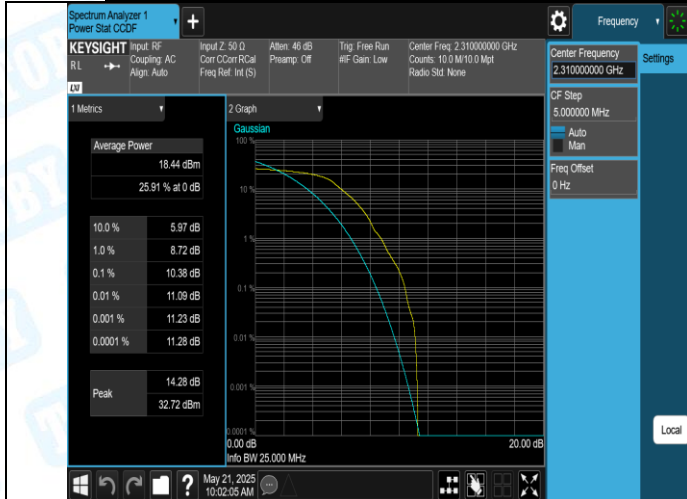
40(2305-2315)-5MHz-16QAM-38750-25RB#0-PASS



40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS

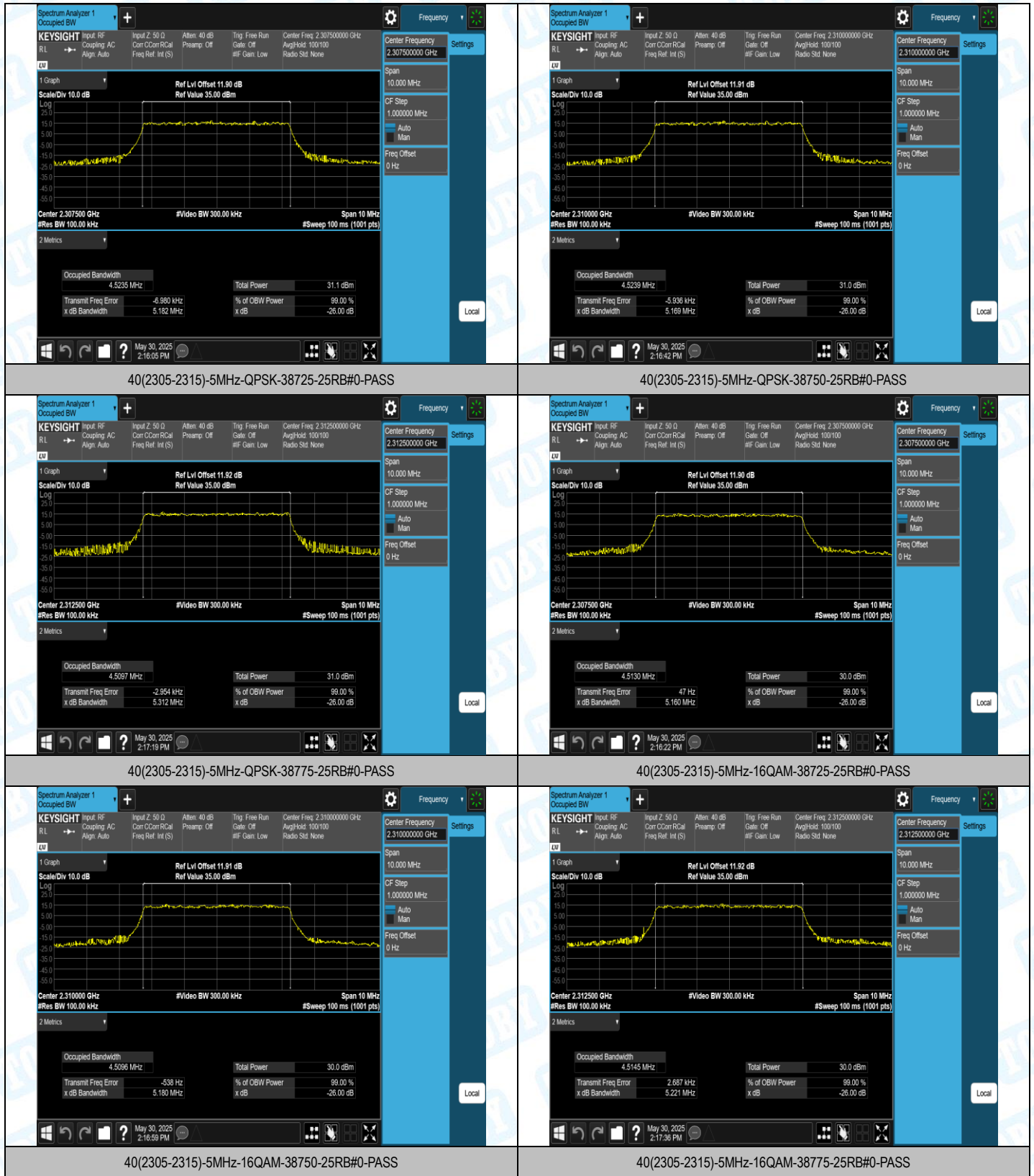


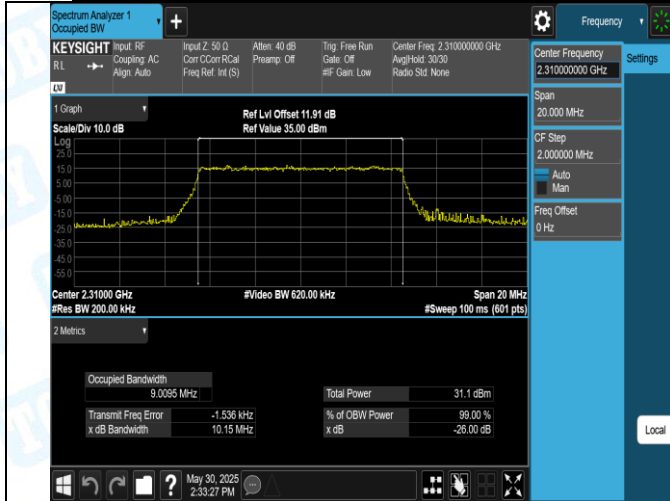
3: 26dB Bandwidth and Occupied Bandwidth

Test Result

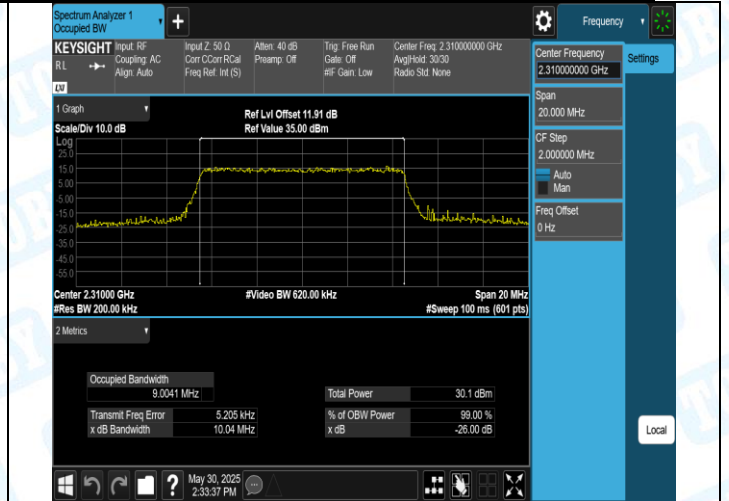
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
40(2305-2315)	5MHz	QPSK	38725	25RB#0	4.5235	5.182	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	4.5239	5.169	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	4.5097	5.312	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	4.5130	5.160	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	4.5096	5.180	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	4.5145	5.221	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	9.0095	10.15	PASS
40(2305-2315)	10MHz	16QAM	38750	50RB#0	9.0041	10.04	PASS

Test Graphs





40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



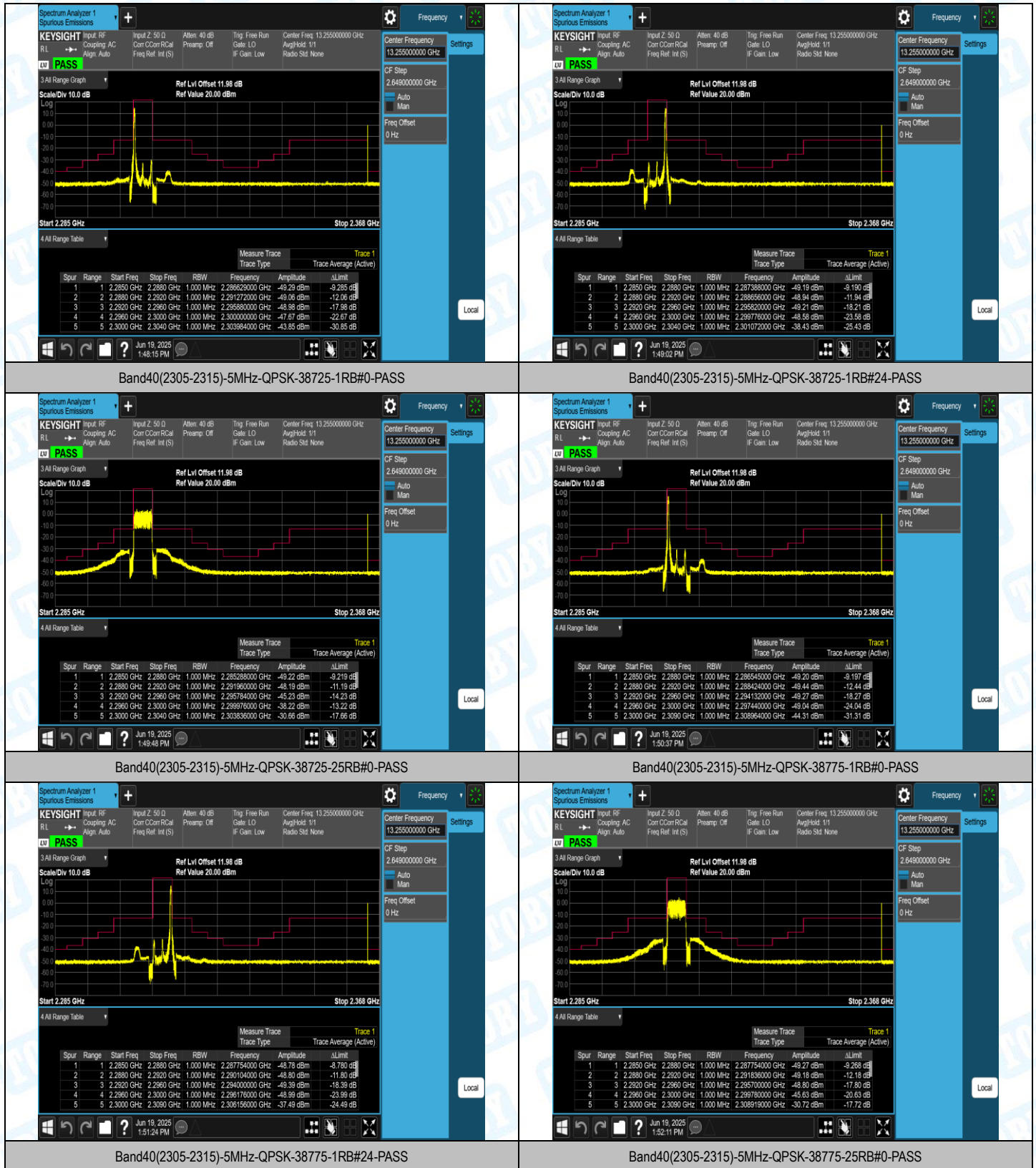
40(2305-2315)-10MHz-16QAM-38750-50RB#0-PASS

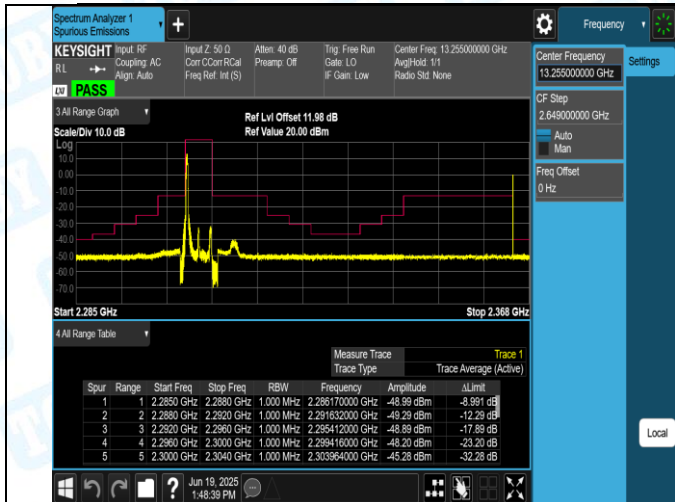
4: Band Edge

Test Result

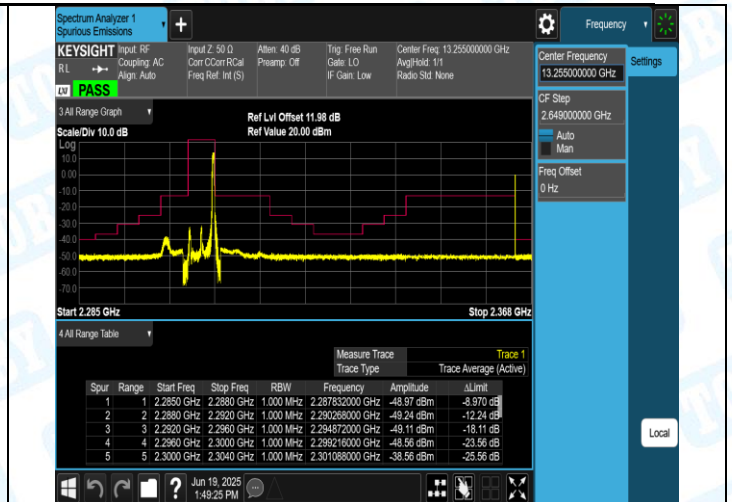
Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	1RB#0	-49.10	9.10	PASS
Band40(2305-2315)	5MHz	QPSK	38725	1RB#24	-48.98	8.98	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	-48.97	8.97	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#0	-49.05	9.05	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#24	-48.78	8.78	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	-49.27	9.27	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#0	-48.99	8.99	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#24	-48.97	8.97	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	-48.83	8.83	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#0	-49.00	9.00	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#24	-49.18	9.18	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	-49.16	9.16	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#0	-48.78	8.78	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#49	-48.97	8.97	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	-41.66	4.66	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#0	-48.74	8.74	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#49	-48.99	8.99	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	-42.63	5.63	PASS

Test Graphs

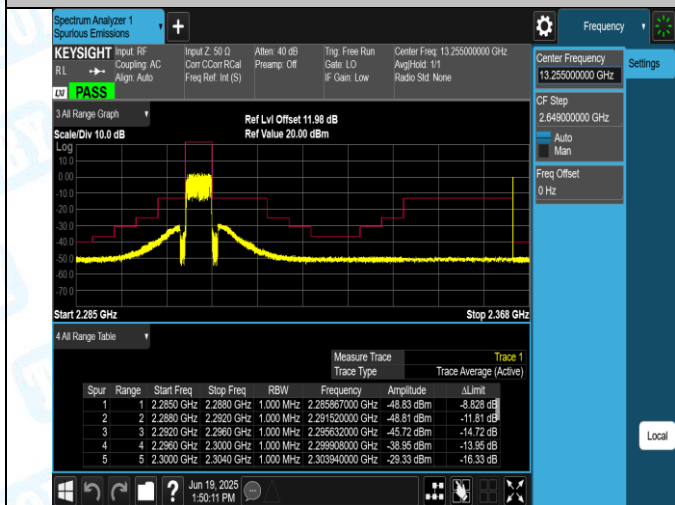




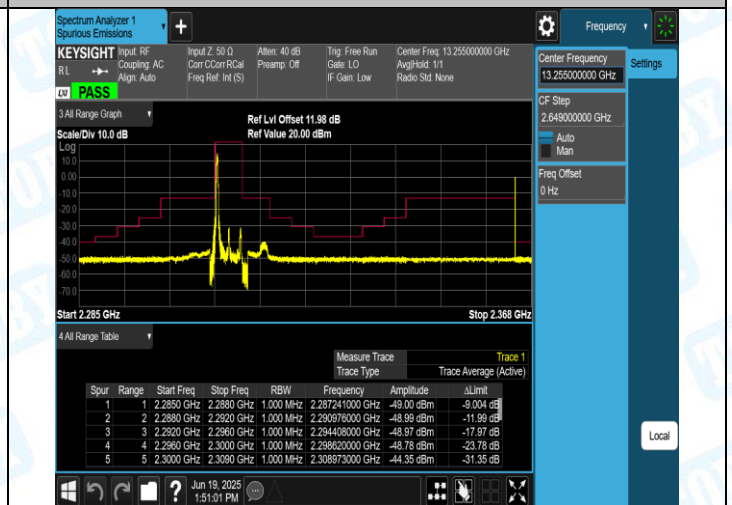
Band40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS



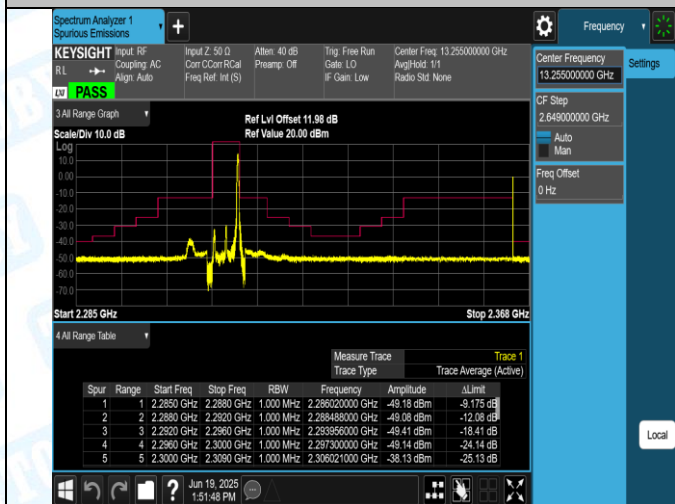
Band40(2305-2315)-5MHz-16QAM-38725-1RB#24-PASS



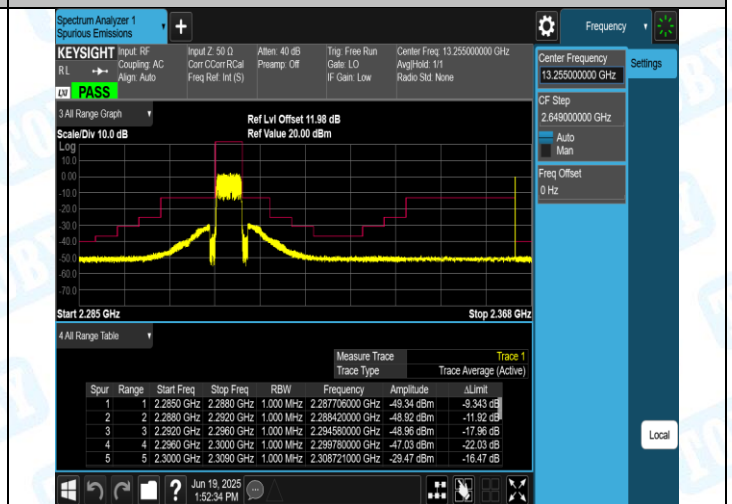
Band40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS



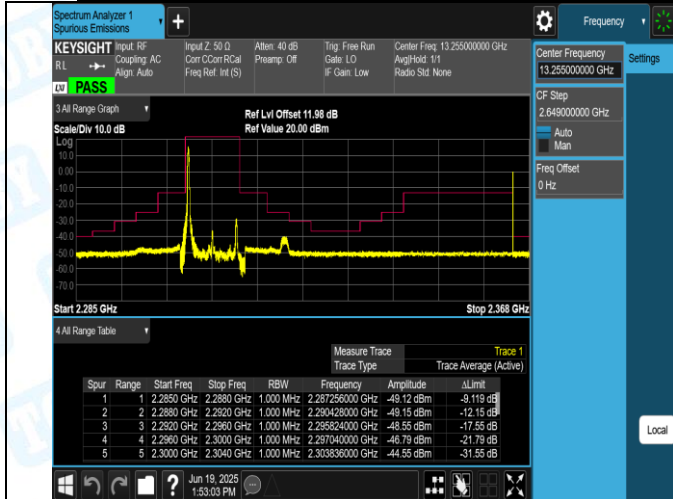
Band40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



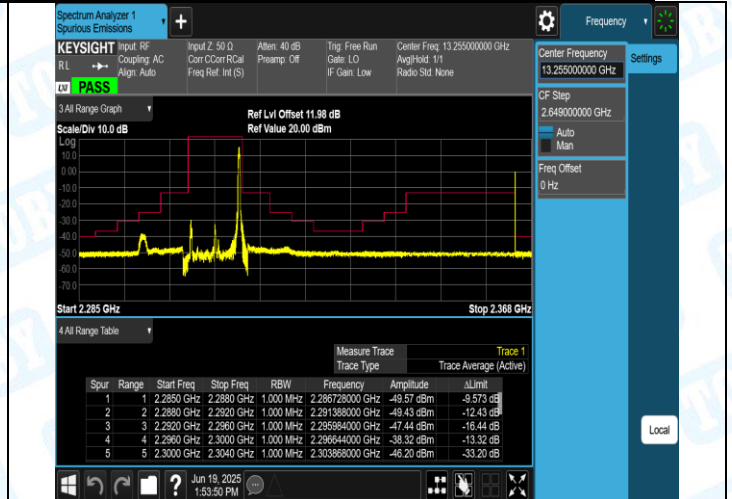
Band40(2305-2315)-5MHz-16QAM-38775-1RB#24-PASS



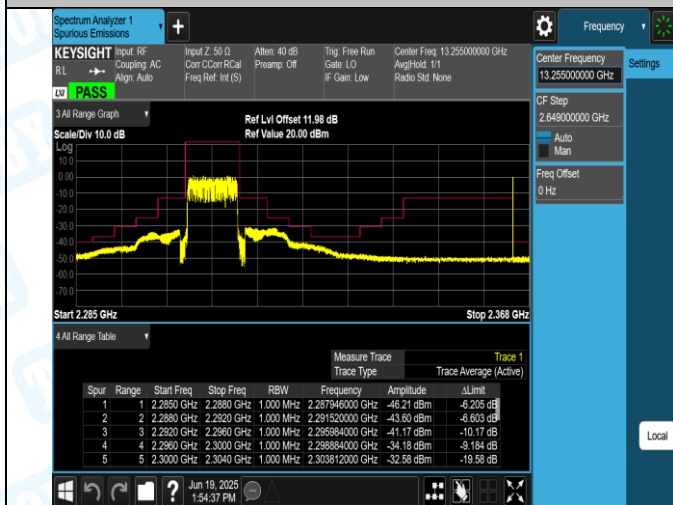
Band40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



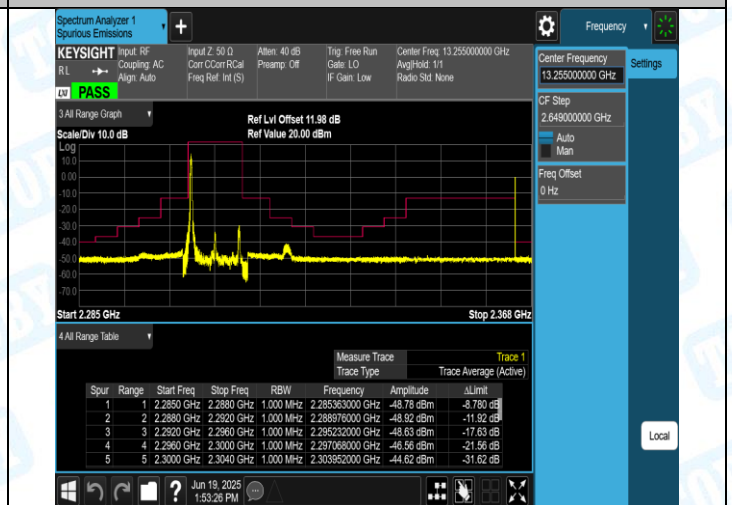
Band40(2305-2315)-10MHz-QPSK-38750-1RB#0-PASS



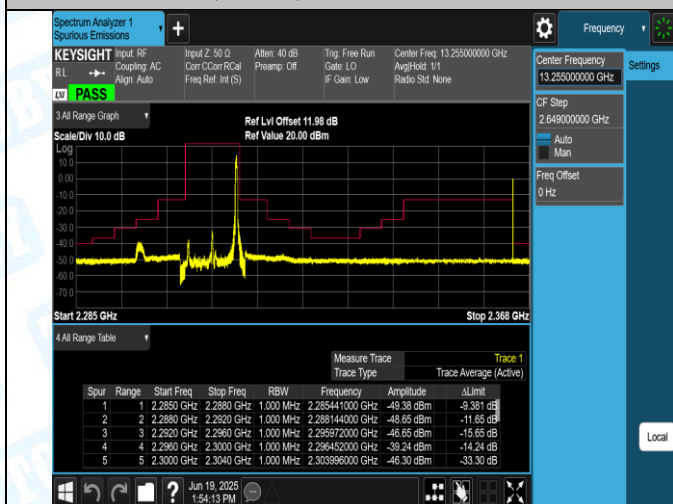
Band40(2305-2315)-10MHz-QPSK-38750-1RB#49-PASS



Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#49-PASS



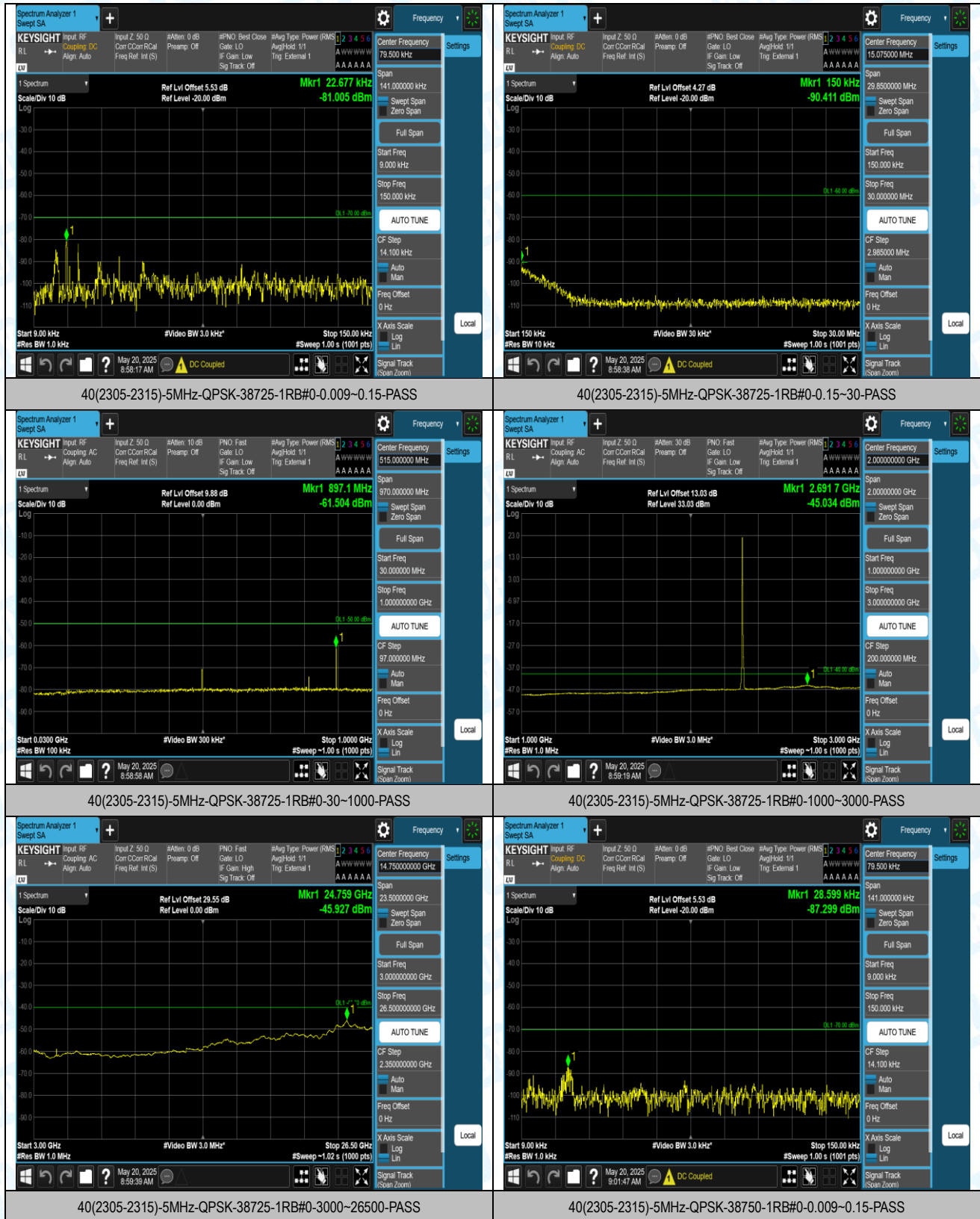
Band40(2305-2315)-10MHz-16QAM-38750-50RB#0-PASS

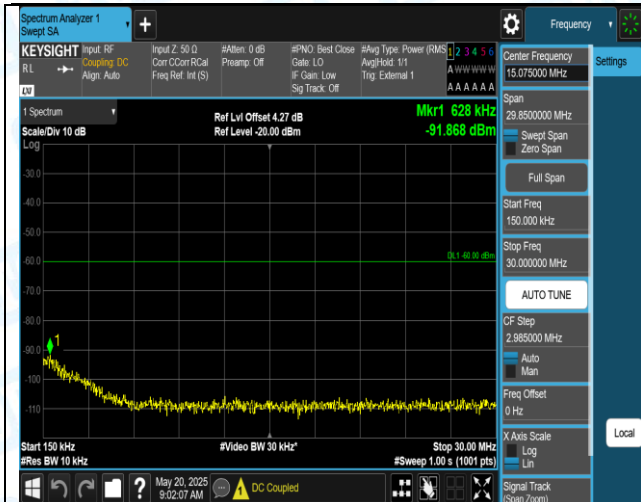
5: Conducted Spurious Emission

Test Result

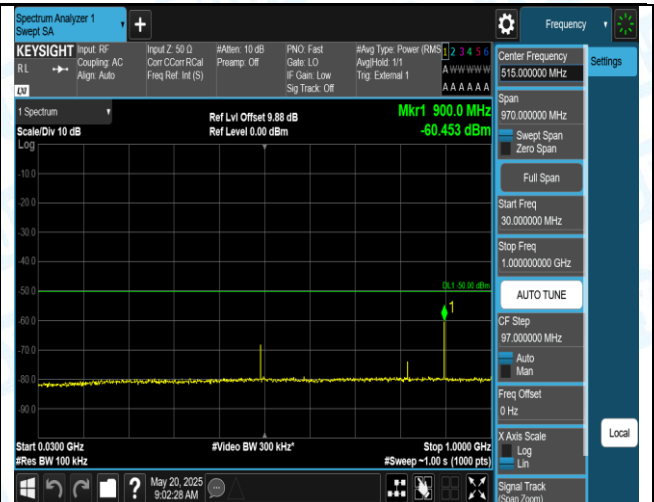
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Frequency	Value(dBm)	Limit (dBm)	Verdict
40(2305-2315)	5MHz	QPSK	38725	1RB#0	0.009~0.15	0.02	-81.01	-70.0	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#0	0.15~30	0.15	-90.41	-60.0	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#0	30~1000	897.08	-61.50	-50.0	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#0	1000~3000	2691.69	-45.03	-40.0	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#0	3000~26500	24759.26	-45.93	-40.0	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	0.009~0.15	0.03	-87.30	-70.0	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	0.15~30	0.63	-91.87	-60.0	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	30~1000	899.99	-60.45	-50.0	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	1000~3000	2709.71	-45.02	-40.0	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	3000~26500	24735.74	-45.99	-40.0	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	0.009~0.15	0.03	-86.05	-70.0	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	0.15~30	0.60	-90.77	-60.0	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	30~1000	903.87	-63.13	-50.0	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	1000~3000	2681.68	-44.99	-40.0	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	3000~26500	24735.74	-46.11	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	0.009~0.15	0.02	-81.43	-70.0	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	0.15~30	0.48	-90.86	-60.0	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	30~1000	896.11	-65.68	-50.0	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	1000~3000	2677.68	-44.99	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	3000~26500	24759.26	-45.84	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	0.009~0.15	0.03	-86.93	-70.0	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	0.15~30	0.15	-91.17	-60.0	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	30~1000	900.96	-65.57	-50.0	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	1000~3000	2687.69	-45.04	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	3000~26500	24759.26	-45.97	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	0.009~0.15	0.09	-93.17	-70.0	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	0.15~30	0.48	-89.35	-60.0	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	30~1000	903.87	-64.03	-50.0	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	1000~3000	2693.69	-44.97	-40.0	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	3000~26500	24735.74	-45.86	-40.0	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	0.009~0.15	0.03	-86.70	-70.0	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	0.15~30	0.45	-90.95	-60.0	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	30~1000	897.08	-62.03	-50.0	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	1000~3000	2687.69	-44.95	-40.0	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	3000~26500	24782.78	-46.01	-40.0	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	0.009~0.15	0.03	-88.98	-70.0	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	0.15~30	0.45	-92.07	-60.0	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	30~1000	897.08	-64.05	-50.0	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	1000~3000	2691.69	-44.86	-40.0	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	3000~26500	24759.26	-46.16	-40.0	PASS

Test Graphs

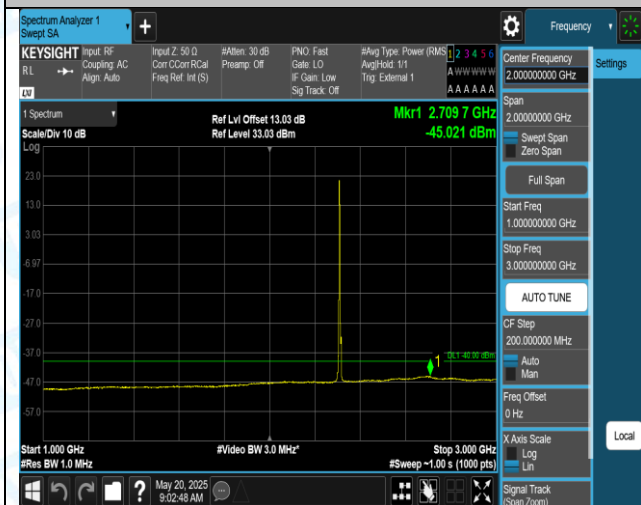




40(2305-2315)-5MHz-QPSK-38750-1RB#0-0.15~30-PASS



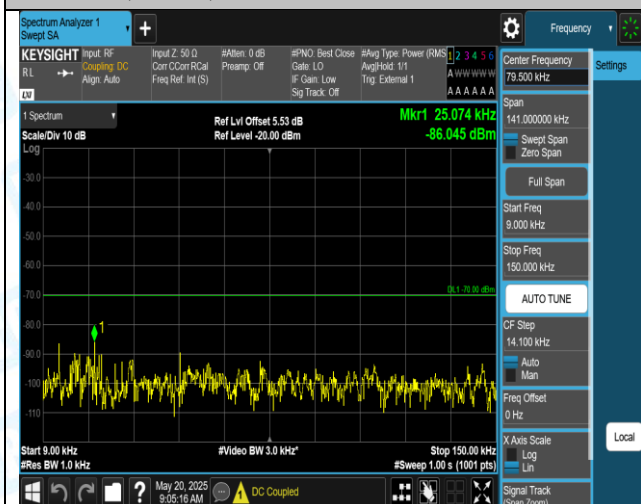
40(2305-2315)-5MHz-QPSK-38750-1RB#0-30~1000-PASS



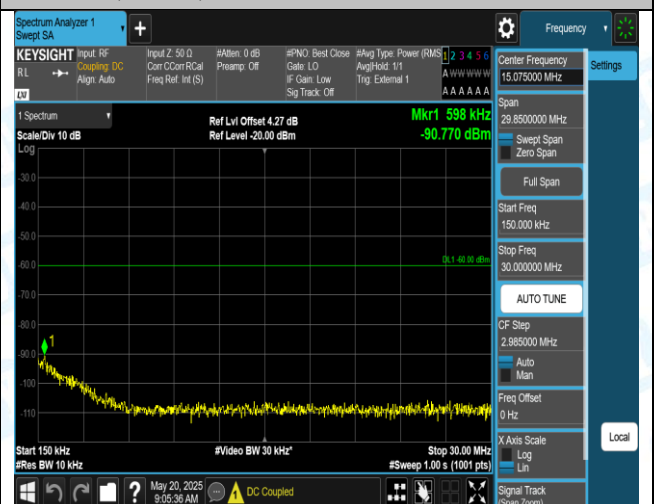
40(2305-2315)-5MHz-QPSK-38750-1RB#0-1000~3000-PASS



40(2305-2315)-5MHz-QPSK-38750-1RB#0-3000~26500-PASS



40(2305-2315)-5MHz-QPSK-38775-1RB#0-0.009~0.15-PASS



40(2305-2315)-5MHz-QPSK-38775-1RB#0-0.15~30-PASS