

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	Tablet
Model:	PAI TAB-1010
Sample ID:	HC-C-202603-0143-09-01
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	24.3℃
Ambient Humidity:	49.7%RH
Test Power Supply:	3.85V
Test Engineer:	Kael LI
Note: For a more detailed features description, please refer to the report TBR-C-202603-0143-12	

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1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2407.960	2416.080	0.5	PASS
11B	Ant1	2437	8.120	2432.960	2441.080	0.5	PASS
11B	Ant1	2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.040	2404.040	2420.080	0.5	PASS
11G	Ant1	2437	16.000	2429.080	2445.080	0.5	PASS
11G	Ant1	2462	16.120	2453.880	2470.000	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.480	2420.720	0.5	PASS
11N20SISO	Ant1	2437	17.240	2428.400	2445.640	0.5	PASS
11N20SISO	Ant1	2462	17.400	2453.320	2470.720	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.080	2439.760	0.5	PASS
11N40SISO	Ant1	2437	36.240	2418.920	2455.160	0.5	PASS
11N40SISO	Ant1	2452	35.680	2434.240	2469.920	0.5	PASS

1.2 Test Graphs



11B-Ant1-2412-PASS

11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

11G-Ant1-2412-PASS



11G-Ant1-2437-PASS

11G-Ant1-2462-PASS



11N20ISO-Ant1-2412-PASS



11N20ISO-Ant1-2437-PASS



11N20ISO-Ant1-2462-PASS



11N40ISO-Ant1-2422-PASS



11N40ISO-Ant1-2437-PASS



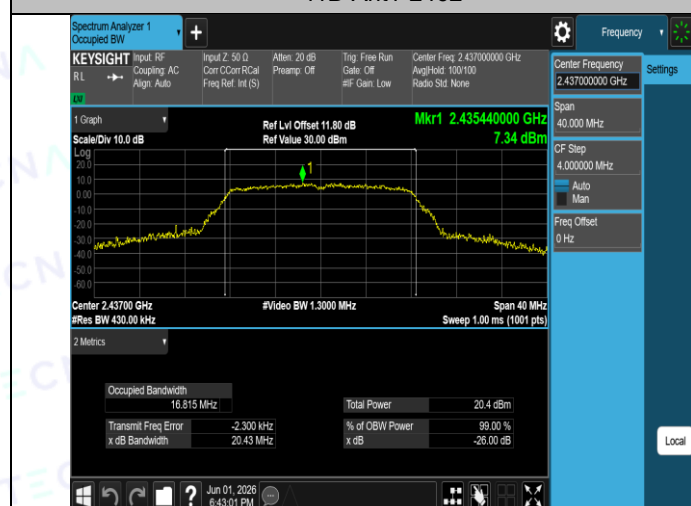
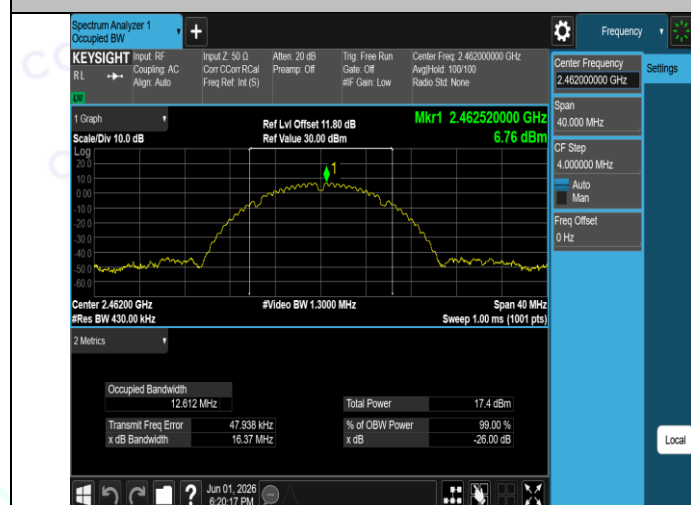
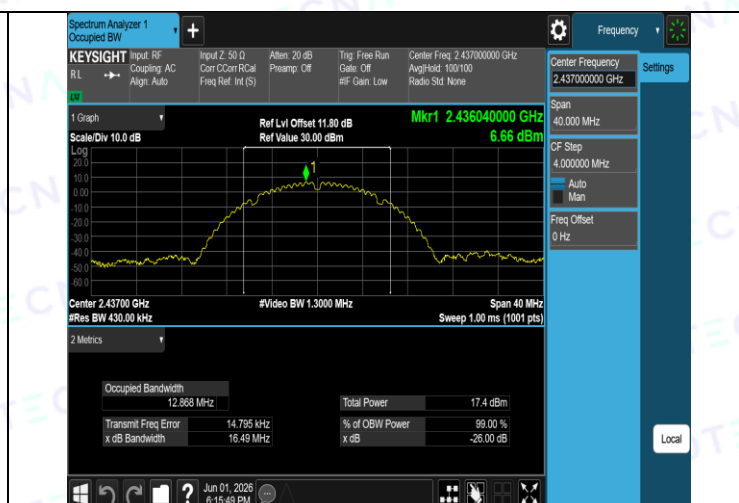
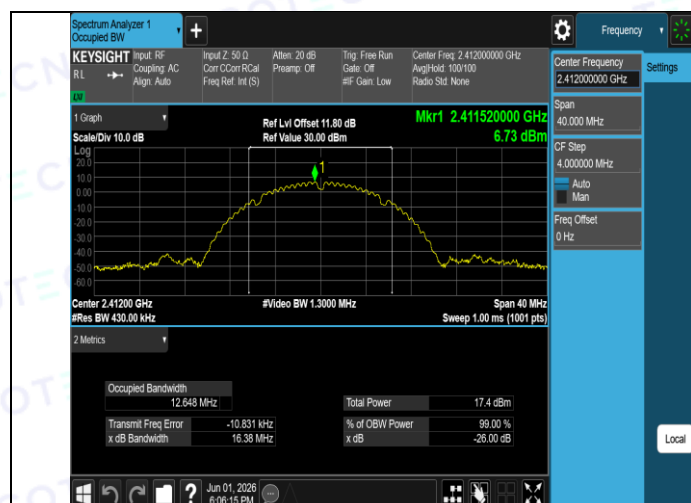
11N40ISO-Ant1-2452-PASS

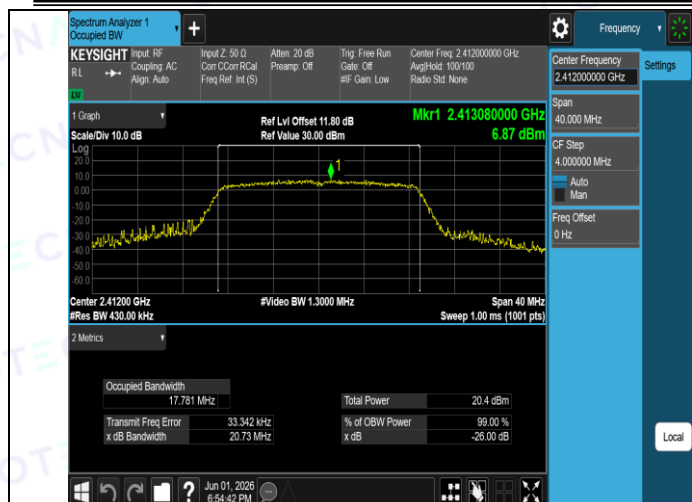
2: Occupied Channel Bandwidth

2.1 Test Result

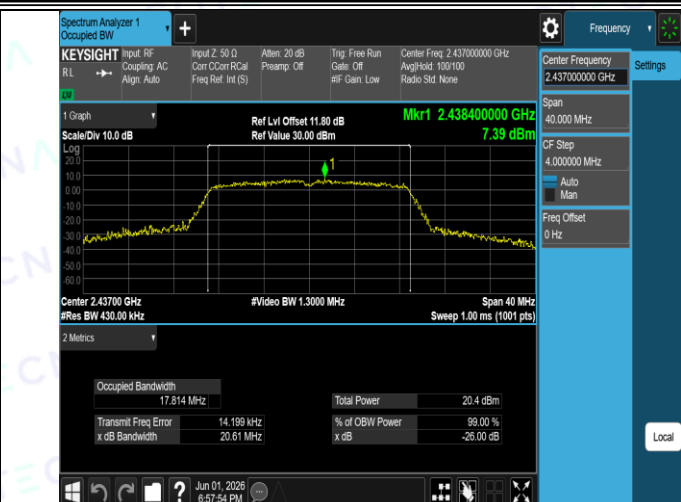
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.648	2405.6652	2418.3132	---	---
11B	Ant1	2437	12.868	2430.5808	2443.4488	---	---
11B	Ant1	2462	12.612	2455.7419	2468.3539	---	---
11G	Ant1	2412	16.805	2403.6214	2420.4264	---	---
11G	Ant1	2437	16.815	2428.5902	2445.4052	---	---
11G	Ant1	2462	16.748	2453.5837	2470.3317	---	---
11N20SISO	Ant1	2412	17.781	2403.1428	2420.9238	---	---
11N20SISO	Ant1	2437	17.814	2428.1072	2445.9212	---	---
11N20SISO	Ant1	2462	17.870	2453.0642	2470.9342	---	---
11N40SISO	Ant1	2422	36.116	2403.9855	2440.1015	---	---
11N40SISO	Ant1	2437	36.521	2418.8053	2455.3263	---	---
11N40SISO	Ant1	2452	36.110	2434.0514	2470.1614	---	---

2.2 Test Graphs

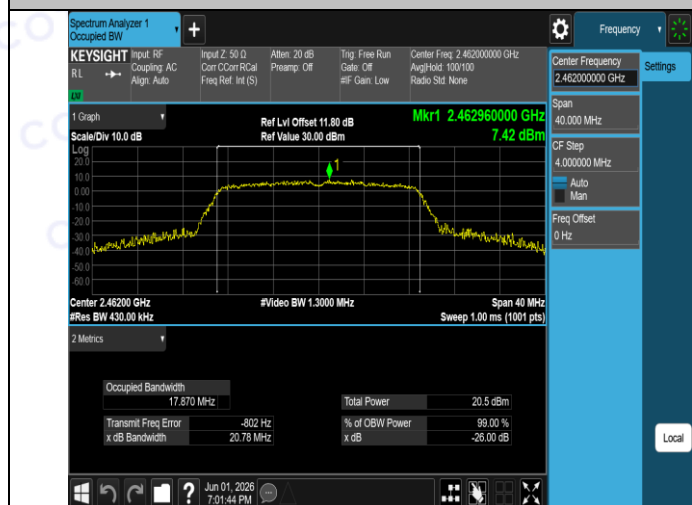




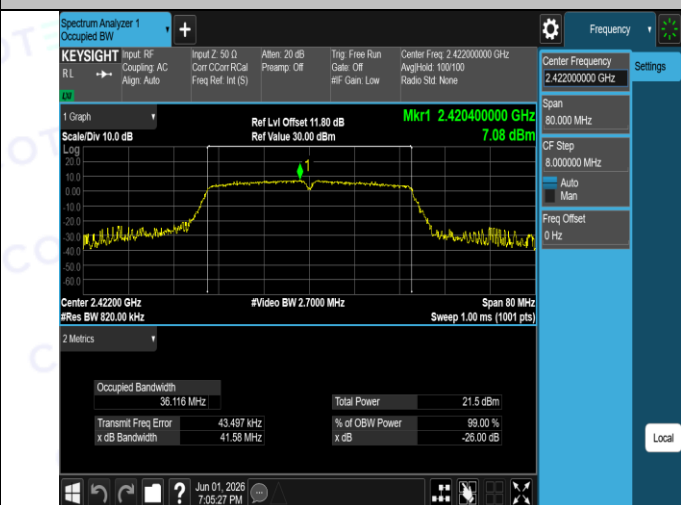
11N20SISO-Ant1-2412



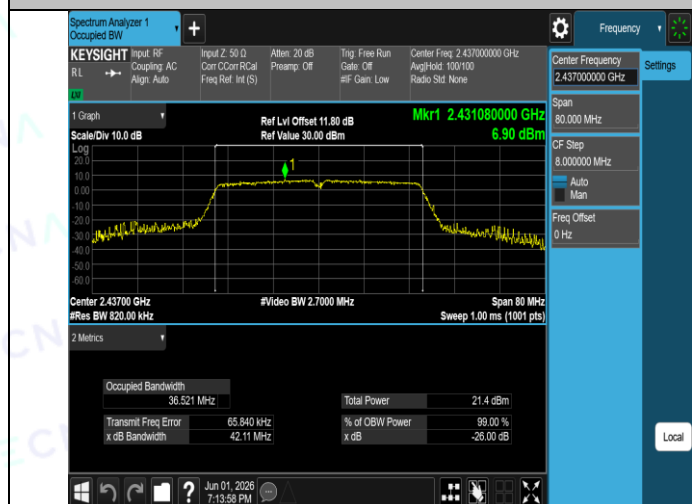
11N20SISO-Ant1-2437



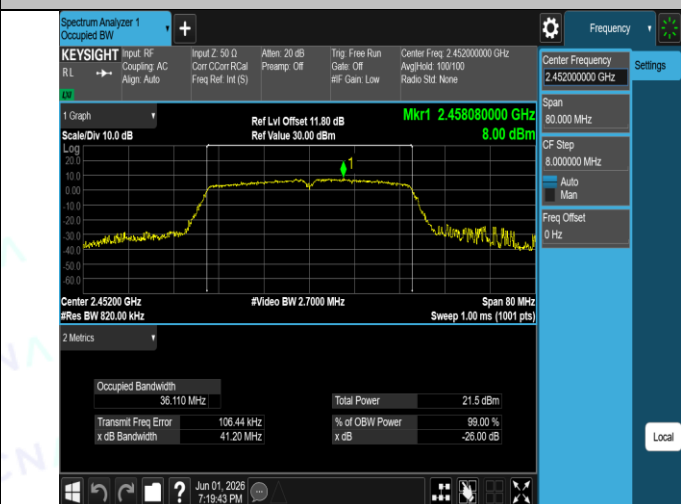
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.36	0.02	14.38	≤30.00	PASS
11B	Ant1	2437	14.49	0.02	14.51	≤30.00	PASS
11B	Ant1	2462	14.43	0.02	14.45	≤30.00	PASS
11G	Ant1	2412	14.28	0.09	14.37	≤30.00	PASS
11G	Ant1	2437	14.26	0.09	14.35	≤30.00	PASS
11G	Ant1	2462	14.36	0.12	14.48	≤30.00	PASS
11N20SISO	Ant1	2412	14.18	0.13	14.31	≤30.00	PASS
11N20SISO	Ant1	2437	14.19	0.10	14.29	≤30.00	PASS
11N20SISO	Ant1	2462	14.32	0.10	14.42	≤30.00	PASS
11N40SISO	Ant1	2422	14.35	0.20	14.55	≤30.00	PASS
11N40SISO	Ant1	2437	14.29	0.26	14.55	≤30.00	PASS
11N40SISO	Ant1	2452	14.36	0.20	14.56	≤30.00	PASS

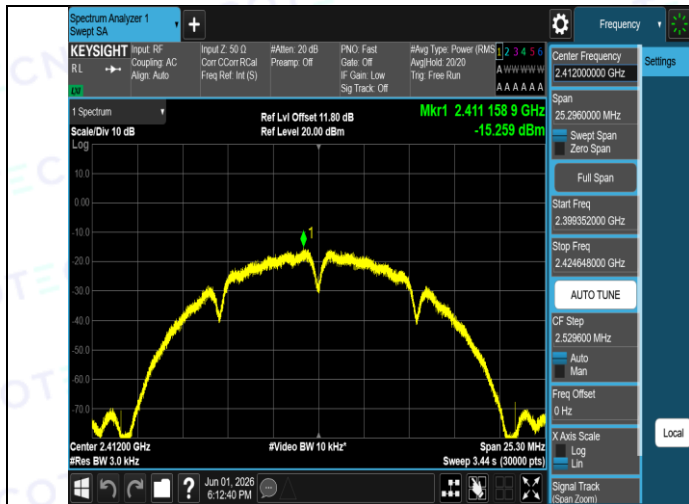
4: Maximum power spectral density

4.1 Test Result

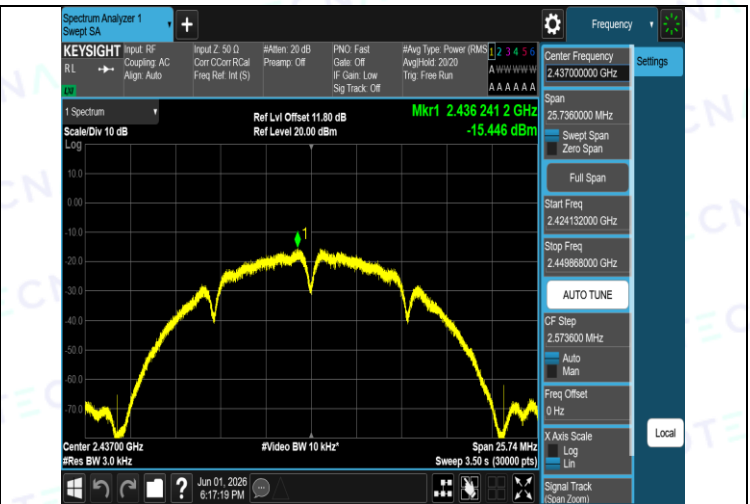
TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.26	0.02	-15.24	≤8.00	PASS
11B	Ant1	2437	-15.45	0.02	-15.43	≤8.00	PASS
11B	Ant1	2462	-15.57	0.02	-15.55	≤8.00	PASS
11G	Ant1	2412	-18.09	0.09	-18.00	≤8.00	PASS
11G	Ant1	2437	-17.99	0.09	-17.90	≤8.00	PASS
11G	Ant1	2462	-17.64	0.12	-17.52	≤8.00	PASS
11N20SISO	Ant1	2412	-18.2	0.13	-18.07	≤8.00	PASS
11N20SISO	Ant1	2437	-18.2	0.10	-18.10	≤8.00	PASS
11N20SISO	Ant1	2462	-17.86	0.10	-17.76	≤8.00	PASS
11N40SISO	Ant1	2422	-19.64	0.20	-19.44	≤8.00	PASS
11N40SISO	Ant1	2437	-20.22	0.26	-19.96	≤8.00	PASS
11N40SISO	Ant1	2452	-20.13	0.20	-19.93	≤8.00	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator

4.2 Test Graphs



11B-Ant1-2412-PASS



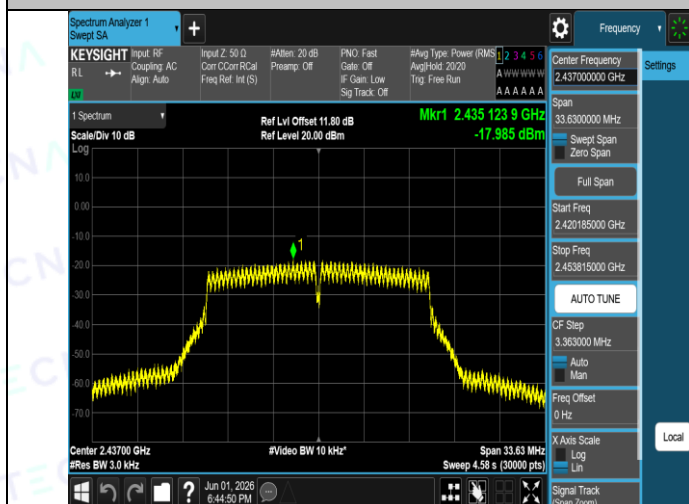
11B-Ant1-2437-PASS



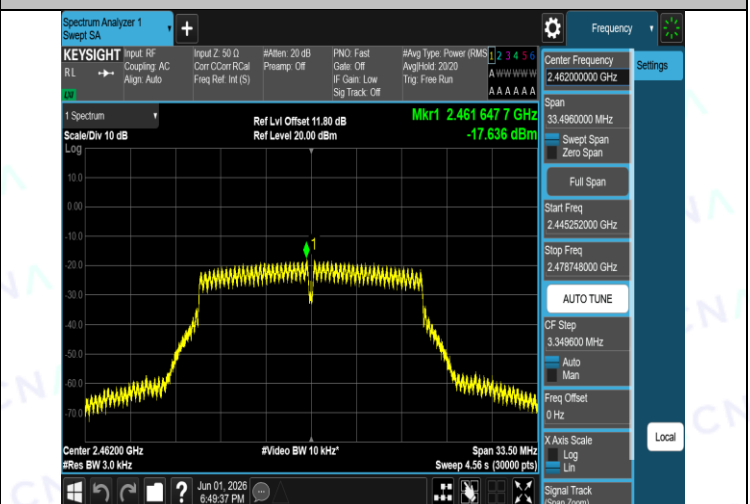
11B-Ant1-2462-PASS



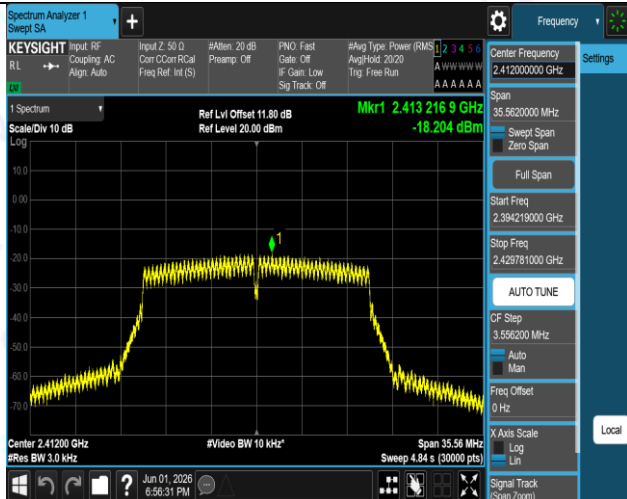
11G-Ant1-2412-PASS



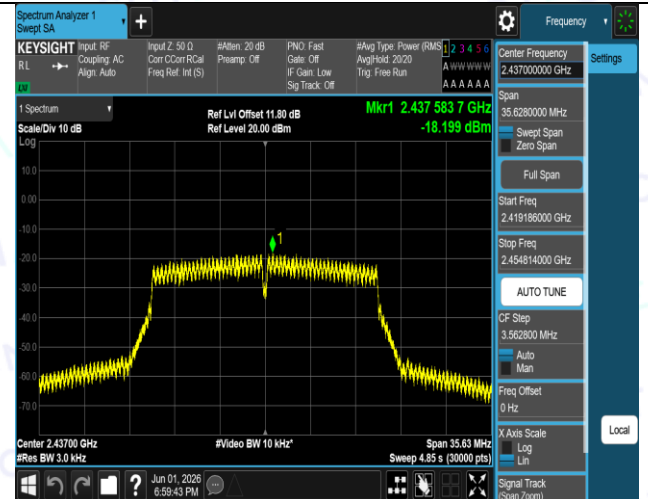
11G-Ant1-2437-PASS



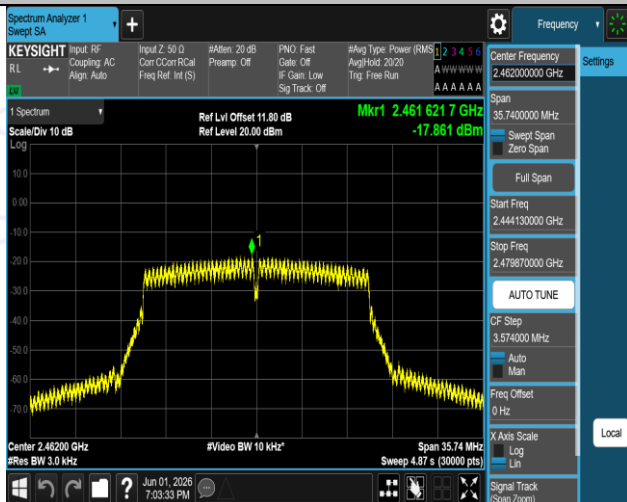
11G-Ant1-2462-PASS



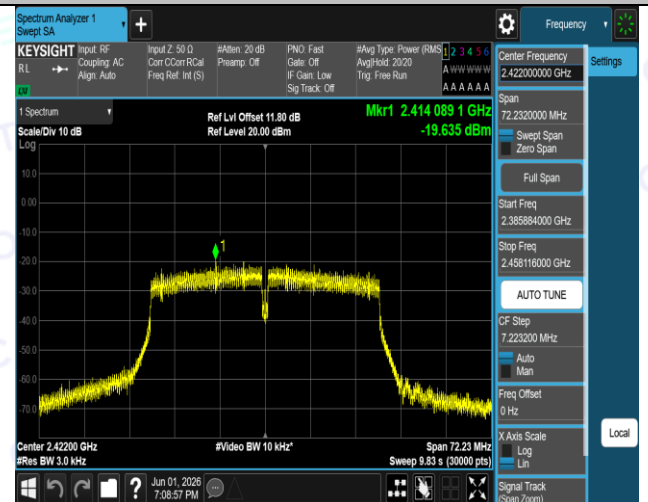
11N20SISO-Ant1-2412-PASS



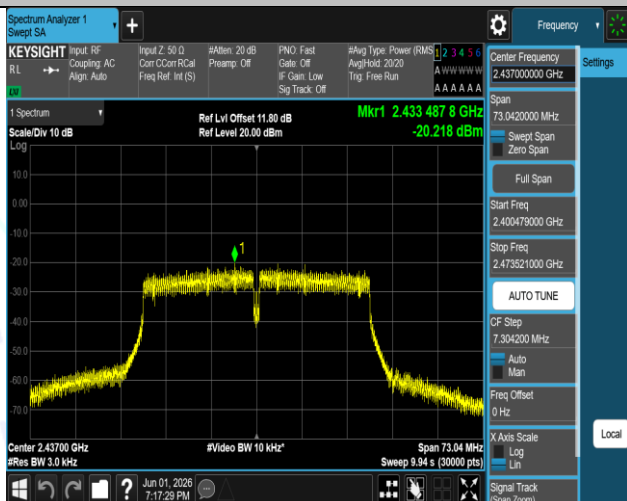
11N20SISO-Ant1-2437-PASS



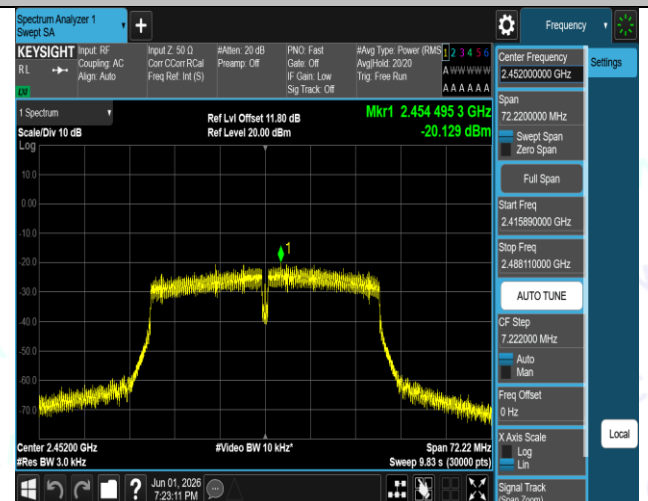
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



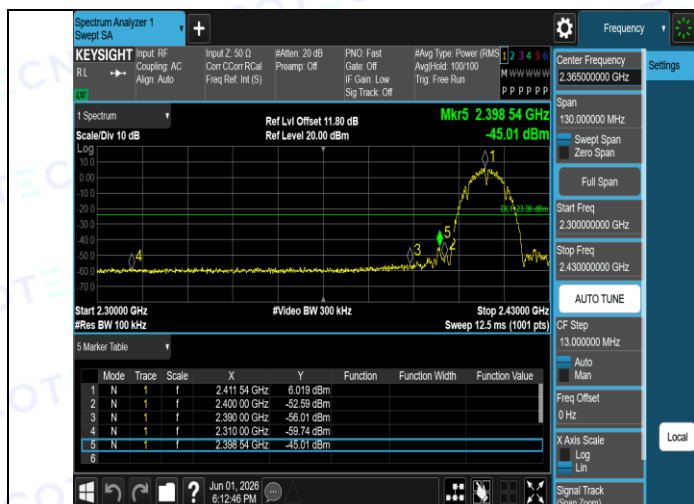
11N40SISO-Ant1-2452-PASS

5: Band edge measurements

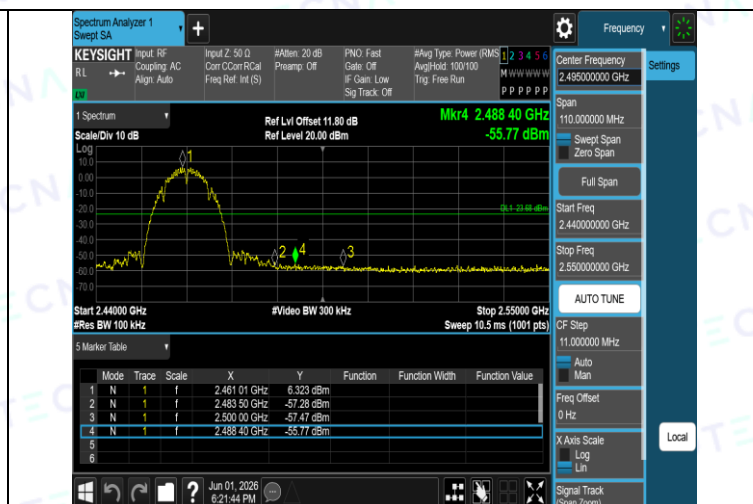
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.02	-45.01	≤-23.98	PASS
11B	Ant1	High	2462	6.32	-55.77	≤-23.68	PASS
11G	Ant1	Low	2412	3.16	-32.61	≤-26.84	PASS
11G	Ant1	High	2462	4.51	-48.15	≤-25.49	PASS
11N20SISO	Ant1	Low	2412	3.77	-31.08	≤-26.24	PASS
11N20SISO	Ant1	High	2462	3.83	-46.88	≤-26.17	PASS
11N40SISO	Ant1	Low	2422	0.94	-33.67	≤-29.06	PASS
11N40SISO	Ant1	High	2452	1.50	-38.17	≤-28.5	PASS

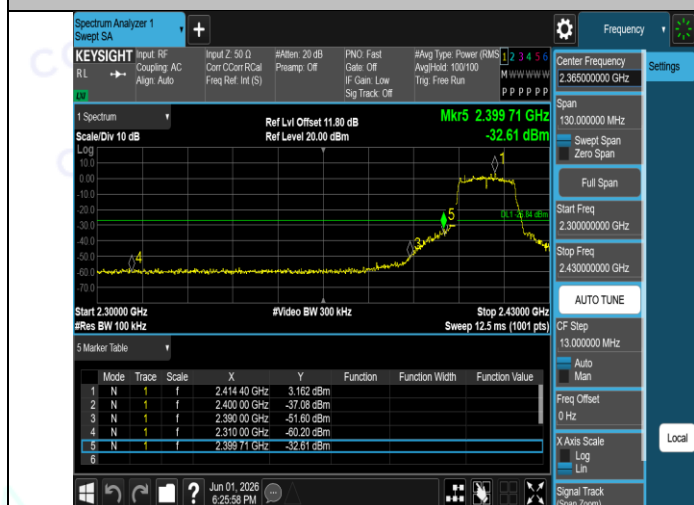
5.2 Test Graphs



11B-Ant1-2412-PASS



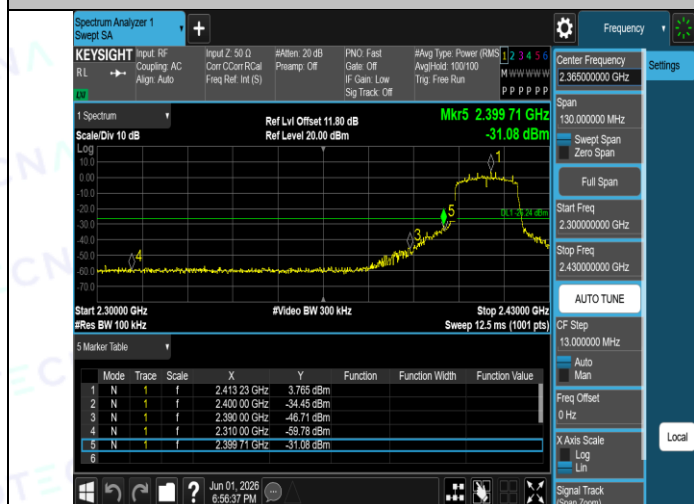
11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



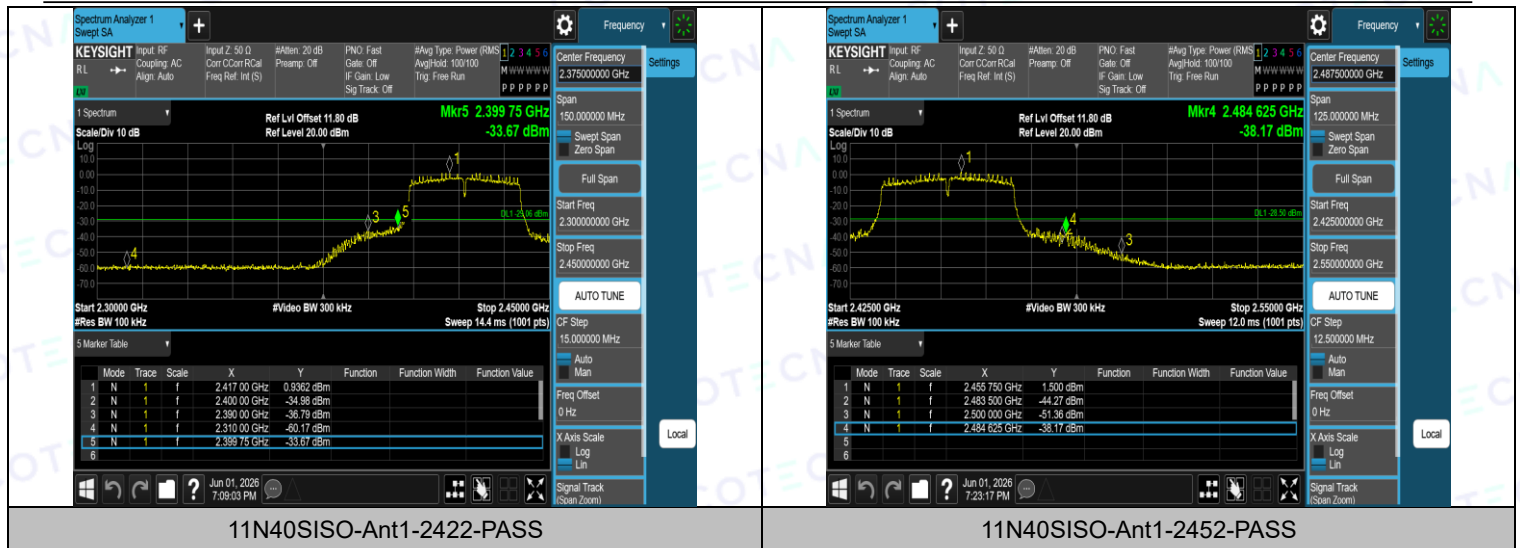
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



6: Conducted Spurious Emission

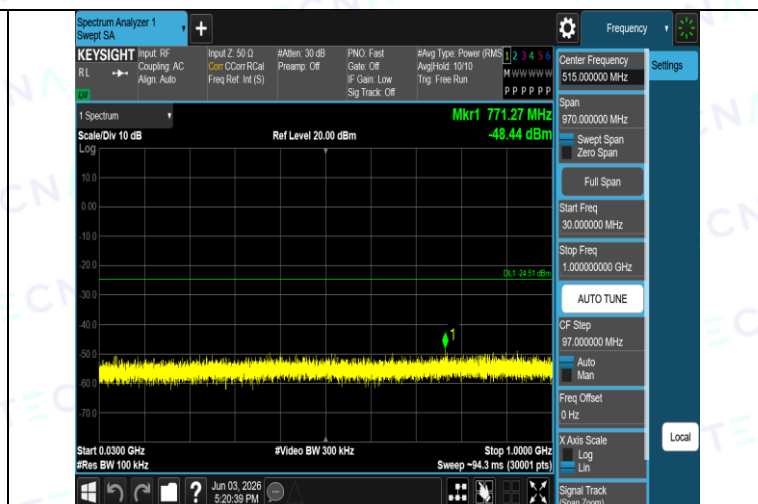
6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.49	5.49	---	PASS
11B	Ant1	2412	30~1000	5.49	-48.44	≤-24.51	PASS
11B	Ant1	2412	1000~26500	5.49	-32.72	≤-24.51	PASS
11B	Ant1	2437	0~Reference	5.77	5.77	---	PASS
11B	Ant1	2437	30~1000	5.77	-48.91	≤-24.23	PASS
11B	Ant1	2437	1000~26500	5.77	-32.3	≤-24.23	PASS
11B	Ant1	2462	0~Reference	5.89	5.89	---	PASS
11B	Ant1	2462	30~1000	5.89	-49.03	≤-24.11	PASS
11B	Ant1	2462	1000~26500	5.89	-33.06	≤-24.11	PASS
11G	Ant1	2412	0~Reference	2.71	2.71	---	PASS
11G	Ant1	2412	30~1000	2.71	-48.17	≤-27.29	PASS
11G	Ant1	2412	1000~26500	2.71	-32.5	≤-27.29	PASS
11G	Ant1	2437	0~Reference	0.10	0.10	---	PASS
11G	Ant1	2437	30~1000	0.10	-48.52	≤-29.9	PASS
11G	Ant1	2437	1000~26500	0.10	-33.34	≤-29.9	PASS
11G	Ant1	2462	0~Reference	2.53	2.53	---	PASS
11G	Ant1	2462	30~1000	2.53	-48.92	≤-27.47	PASS
11G	Ant1	2462	1000~26500	2.53	-32.5	≤-27.47	PASS
11N20SISO	Ant1	2412	0~Reference	0.57	0.57	---	PASS
11N20SISO	Ant1	2412	30~1000	0.57	-49.03	≤-29.43	PASS
11N20SISO	Ant1	2412	1000~26500	0.57	-33.37	≤-29.43	PASS
11N20SISO	Ant1	2437	0~Reference	0.87	0.87	---	PASS
11N20SISO	Ant1	2437	30~1000	0.87	-49.17	≤-29.13	PASS
11N20SISO	Ant1	2437	1000~26500	0.87	-32.55	≤-29.13	PASS
11N20SISO	Ant1	2462	0~Reference	-0.04	-0.04	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.04	-49.17	≤-30.04	PASS
11N20SISO	Ant1	2462	1000~26500	-0.04	-33.13	≤-30.04	PASS
11N40SISO	Ant1	2422	0~Reference	0.75	0.75	---	PASS
11N40SISO	Ant1	2422	30~1000	0.75	-48.1	≤-29.25	PASS
11N40SISO	Ant1	2422	1000~26500	0.75	-31.83	≤-29.25	PASS
11N40SISO	Ant1	2437	0~Reference	-0.45	-0.45	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.45	-49.18	≤-30.45	PASS
11N40SISO	Ant1	2437	1000~26500	-0.45	-32.81	≤-30.45	PASS
11N40SISO	Ant1	2452	0~Reference	1.13	1.13	---	PASS
11N40SISO	Ant1	2452	30~1000	1.13	-49.09	≤-28.87	PASS
11N40SISO	Ant1	2452	1000~26500	1.13	-32.85	≤-28.87	PASS

6.2 Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS



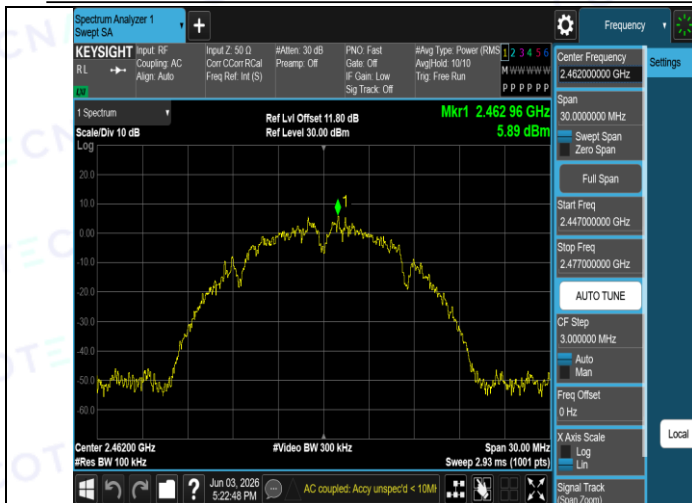
11B-Ant1-2437-0~Reference-PASS



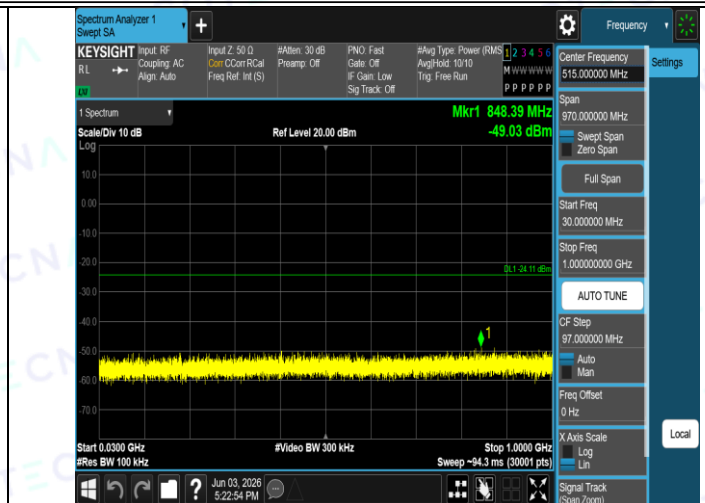
11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS



11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS



11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS