

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

General Description of EUT	
EUT Name:	Hub
Model:	VHHB1
Sample ID:	HC-C-202511-0121-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Lily. zhang
Note: For a more detailed features description, please refer to the report TBR-C-202511-0121-51	

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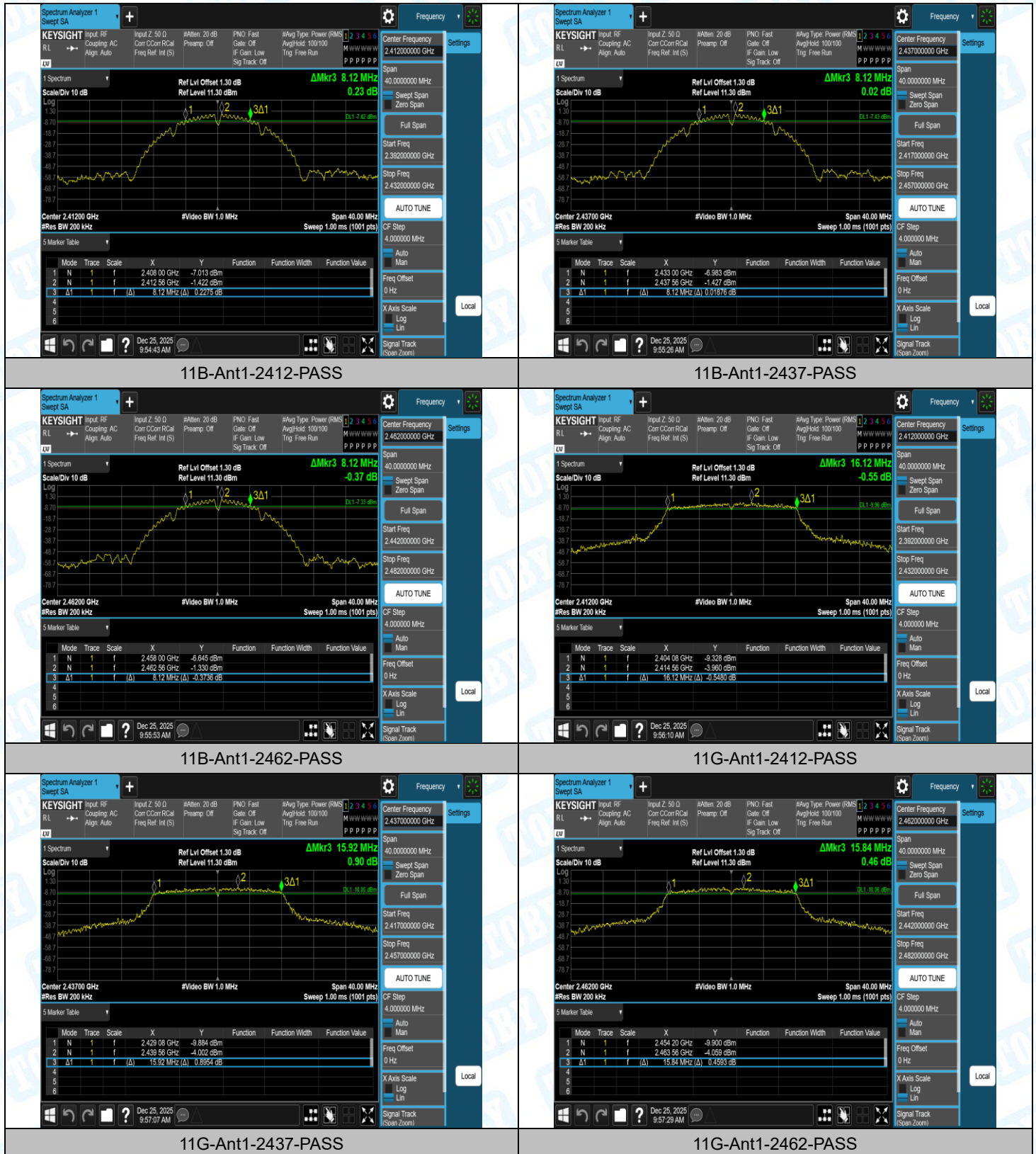
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1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2408.000	2416.120	0.5	PASS
11B	Ant1	2437	8.120	2433.000	2441.120	0.5	PASS
11B	Ant1	2462	8.120	2458.000	2466.120	0.5	PASS
11G	Ant1	2412	16.120	2404.080	2420.200	0.5	PASS
11G	Ant1	2437	15.920	2429.080	2445.000	0.5	PASS
11G	Ant1	2462	15.840	2454.200	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.680	2420.680	0.5	PASS
11N20SISO	Ant1	2437	16.480	2429.120	2445.600	0.5	PASS
11N20SISO	Ant1	2462	16.960	2453.440	2470.400	0.5	PASS

1.2 Test Graphs



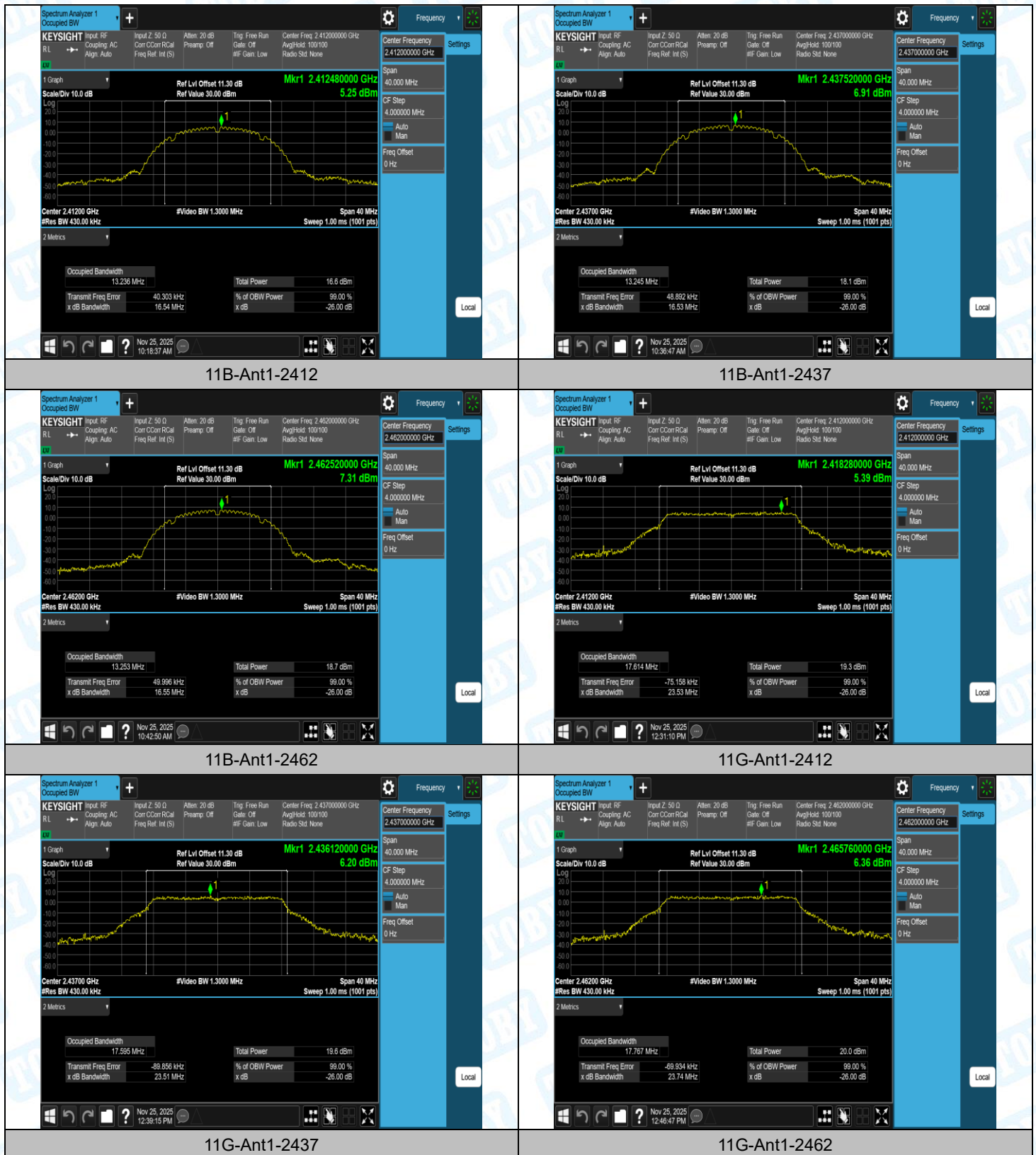


2: Occupied Channel Bandwidth

2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.236	2405.4223	2418.6583	---	---
11B	Ant1	2437	13.245	2430.4264	2443.6714	---	---
11B	Ant1	2462	13.253	2455.4235	2468.6765	---	---
11G	Ant1	2412	17.614	2403.1178	2420.7318	---	---
11G	Ant1	2437	17.595	2428.1126	2445.7076	---	---
11G	Ant1	2462	17.767	2453.0466	2470.8136	---	---
11N20SISO	Ant1	2412	18.676	2402.6815	2421.3575	---	---
11N20SISO	Ant1	2437	18.530	2427.7561	2446.2861	---	---
11N20SISO	Ant1	2462	18.617	2452.6878	2471.3048	---	---

2.2 Test Graphs





3: Maximum conducted output power

3.1 Test Result Average

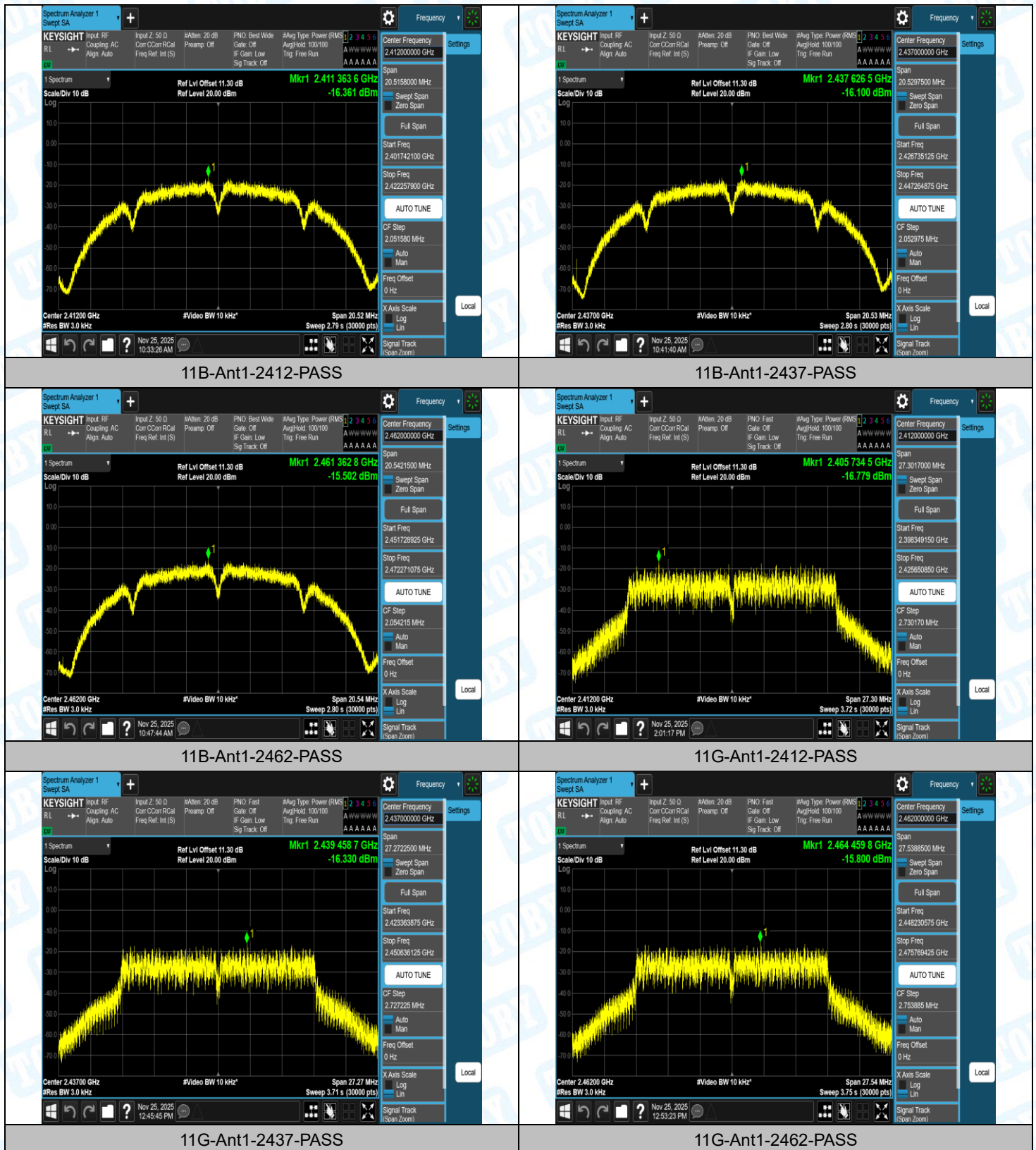
Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.09	3.05	15.14	≤30.00	PASS
11B	Ant1	2437	12.09	3.05	15.14	≤30.00	PASS
11B	Ant1	2462	12.28	3.05	15.33	≤30.00	PASS
11G	Ant1	2412	10.10	3.01	13.11	≤30.00	PASS
11G	Ant1	2437	11.17	3.01	14.18	≤30.00	PASS
11G	Ant1	2462	11.74	3.01	14.75	≤30.00	PASS
11N20SISO	Ant1	2412	9.67	2.90	12.57	≤30.00	PASS
11N20SISO	Ant1	2437	10.40	2.90	13.30	≤30.00	PASS
11N20SISO	Ant1	2462	10.51	2.90	13.41	≤30.00	PASS

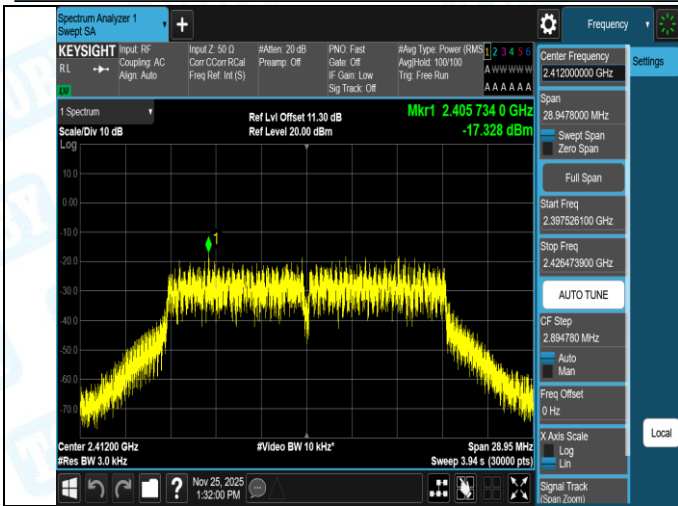
4: Maximum power spectral density

4.1 Test Result

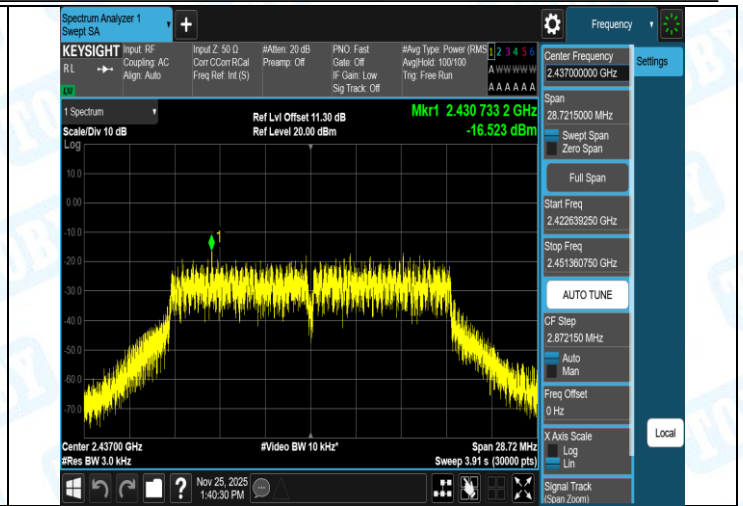
TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.36	3.05	-13.31	≤8.00	PASS
11B	Ant1	2437	-16.1	3.05	-13.05	≤8.00	PASS
11B	Ant1	2462	-15.5	3.05	-12.45	≤8.00	PASS
11G	Ant1	2412	-16.78	3.01	-13.77	≤8.00	PASS
11G	Ant1	2437	-16.33	3.01	-13.32	≤8.00	PASS
11G	Ant1	2462	-15.8	3.01	-12.79	≤8.00	PASS
11N20SISO	Ant1	2412	-17.33	2.90	-14.43	≤8.00	PASS
11N20SISO	Ant1	2437	-16.52	2.90	-13.62	≤8.00	PASS
11N20SISO	Ant1	2462	-16.71	2.90	-13.81	≤8.00	PASS

4.2 Test Graphs

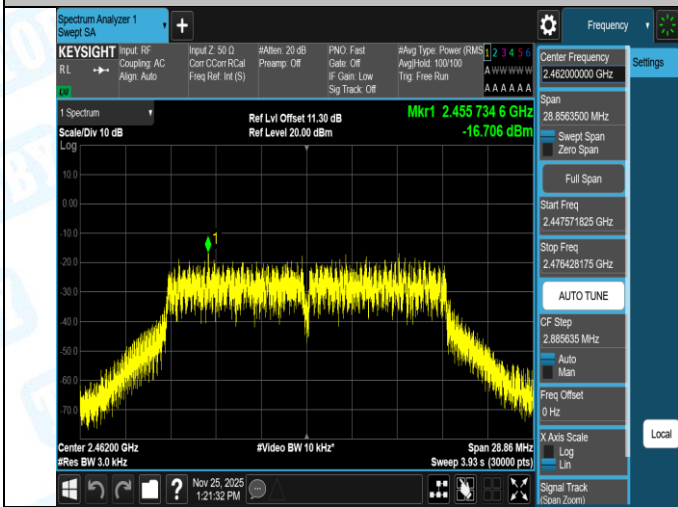




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

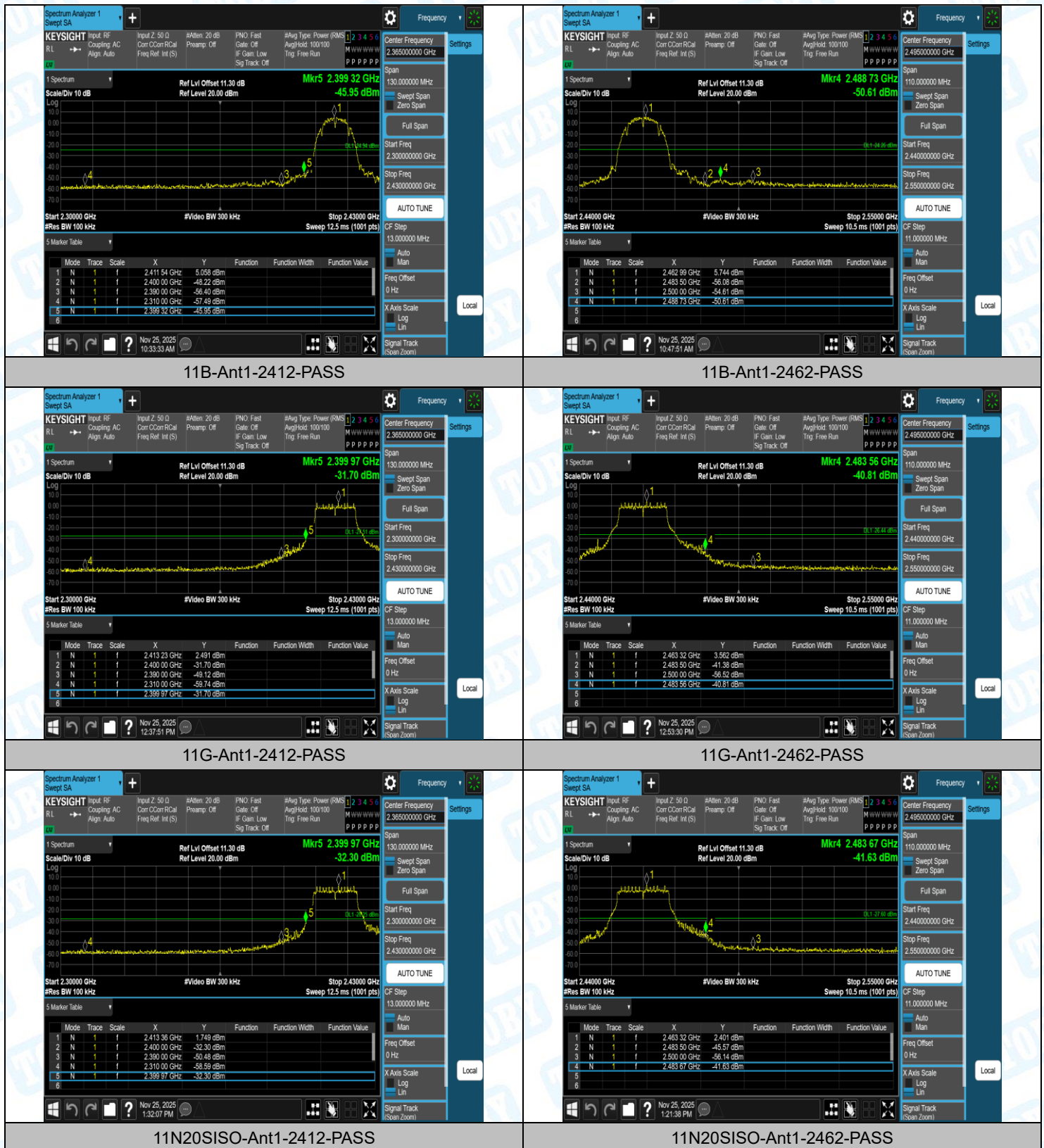


5: Band edge measurements

5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.06	-45.95	≤-24.94	PASS
11B	Ant1	High	2462	5.74	-50.61	≤-24.26	PASS
11G	Ant1	Low	2412	2.49	-31.7	≤-27.51	PASS
11G	Ant1	High	2462	3.56	-40.81	≤-26.44	PASS
11N20SISO	Ant1	Low	2412	1.75	-32.3	≤-28.25	PASS
11N20SISO	Ant1	High	2462	2.40	-41.63	≤-27.6	PASS

5.2 Test Graphs

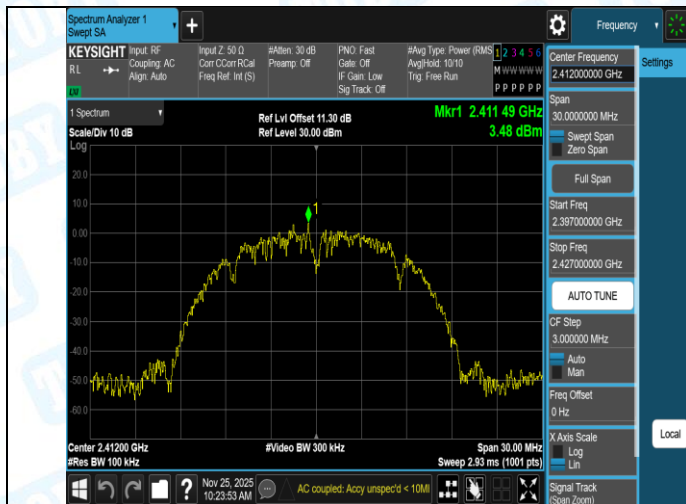


6: Conducted Spurious Emission

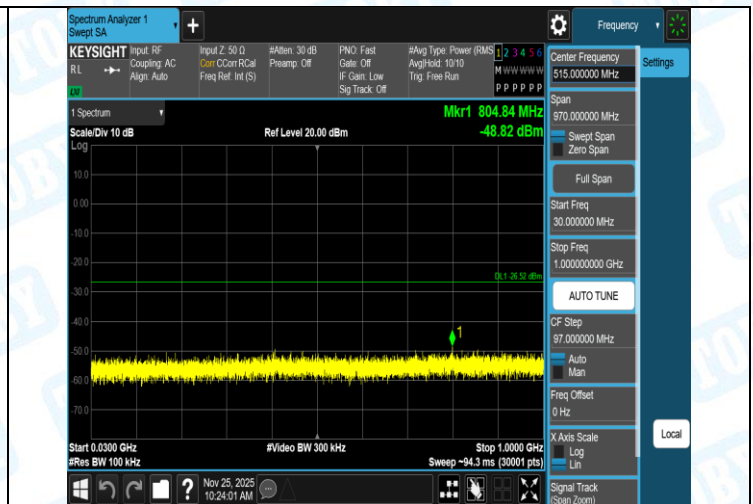
6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.48	3.48	---	PASS
11B	Ant1	2412	30~1000	3.48	-48.82	≤-26.52	PASS
11B	Ant1	2412	1000~26500	3.48	-32.99	≤-26.52	PASS
11B	Ant1	2437	0~Reference	4.52	4.52	---	PASS
11B	Ant1	2437	30~1000	4.52	-49.25	≤-25.48	PASS
11B	Ant1	2437	1000~26500	4.52	-33.95	≤-25.48	PASS
11B	Ant1	2462	0~Reference	6.36	6.36	---	PASS
11B	Ant1	2462	30~1000	6.36	-49.43	≤-23.64	PASS
11B	Ant1	2462	1000~26500	6.36	-33.86	≤-23.64	PASS
11G	Ant1	2412	0~Reference	2.12	2.12	---	PASS
11G	Ant1	2412	30~1000	2.12	-49.29	≤-27.88	PASS
11G	Ant1	2412	1000~26500	2.12	-32.3	≤-27.88	PASS
11G	Ant1	2437	0~Reference	2.35	2.35	---	PASS
11G	Ant1	2437	30~1000	2.35	-48.95	≤-27.65	PASS
11G	Ant1	2437	1000~26500	2.35	-33.06	≤-27.65	PASS
11G	Ant1	2462	0~Reference	2.82	2.82	---	PASS
11G	Ant1	2462	30~1000	2.82	-49.53	≤-27.18	PASS
11G	Ant1	2462	1000~26500	2.82	-34.14	≤-27.18	PASS
11N20SISO	Ant1	2412	0~Reference	1.27	1.27	---	PASS
11N20SISO	Ant1	2412	30~1000	1.27	-48.44	≤-28.73	PASS
11N20SISO	Ant1	2412	1000~26500	1.27	-33.59	≤-28.73	PASS
11N20SISO	Ant1	2437	0~Reference	1.85	1.85	---	PASS
11N20SISO	Ant1	2437	30~1000	1.85	-49.35	≤-28.15	PASS
11N20SISO	Ant1	2437	1000~26500	1.85	-33.32	≤-28.15	PASS
11N20SISO	Ant1	2462	0~Reference	1.64	1.64	---	PASS
11N20SISO	Ant1	2462	30~1000	1.64	-49.36	≤-28.36	PASS
11N20SISO	Ant1	2462	1000~26500	1.64	-33.17	≤-28.36	PASS

6.2 Test Graphs



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



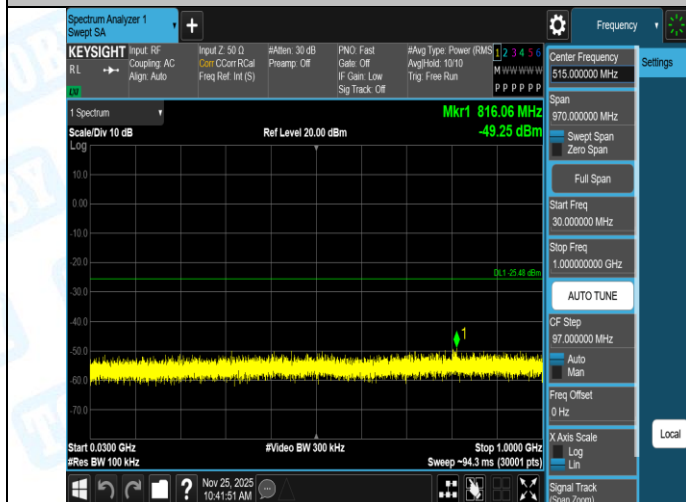
11B-Ant1-2412-30~1000-PASS



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



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



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



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

