



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: USB CAR CHARGER WITH PULSING LIGHT

Test Model: VC-6019D

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng





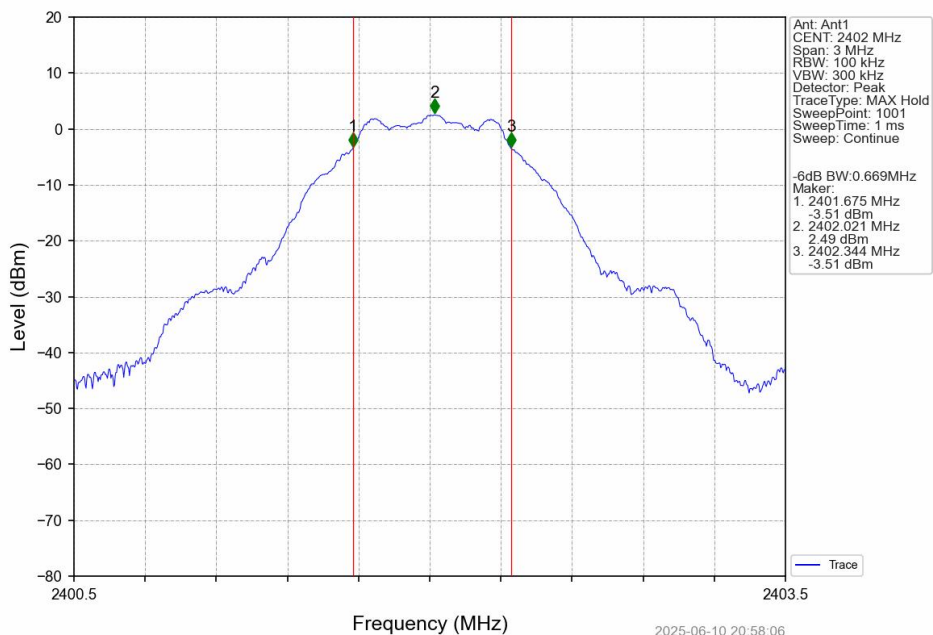
A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.669	≥ 0.5	Pass
		2440	1	0.701	≥ 0.5	Pass
		2480	1	0.672	≥ 0.5	Pass

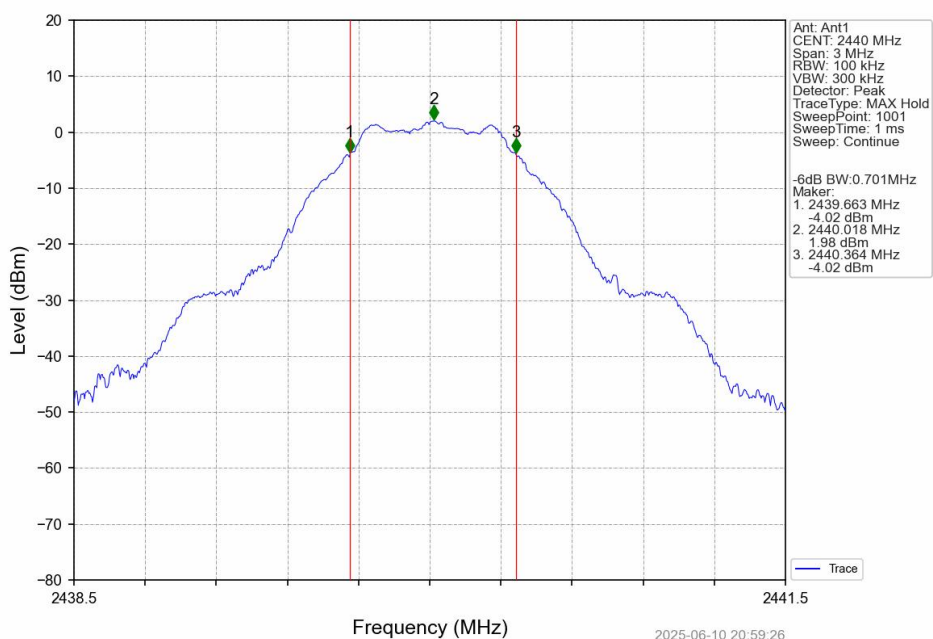




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

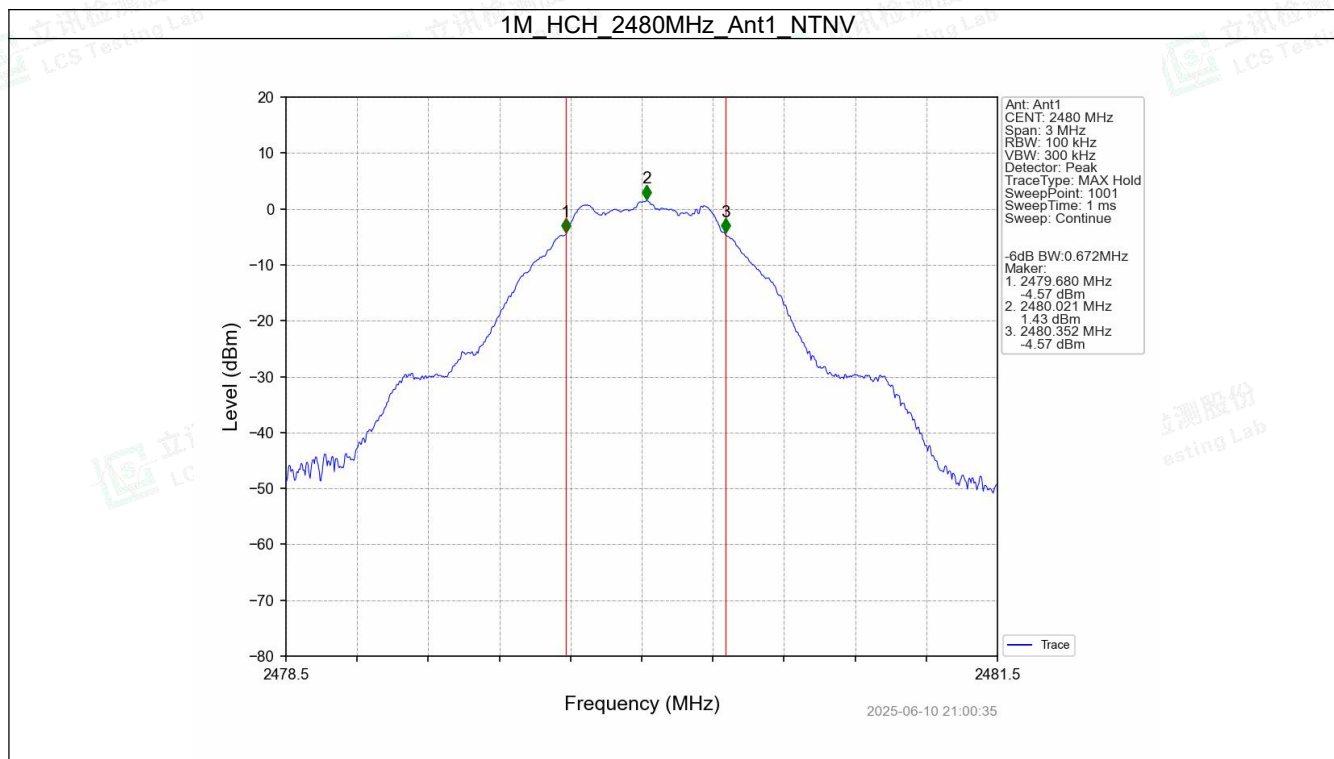


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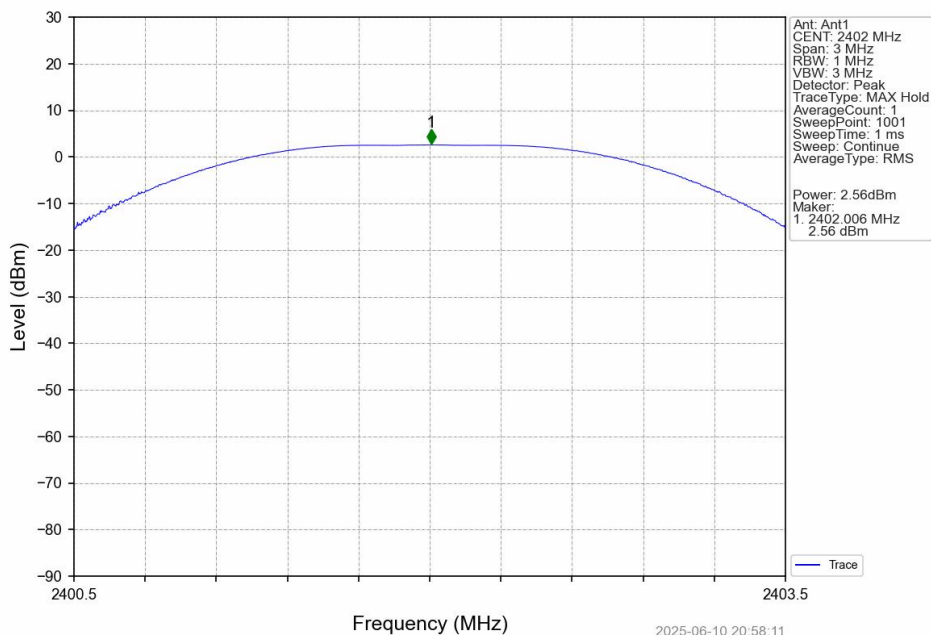
A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.56	≤ 30	Pass
		2440	2.12	≤ 30	Pass
		2480	1.44	≤ 30	Pass

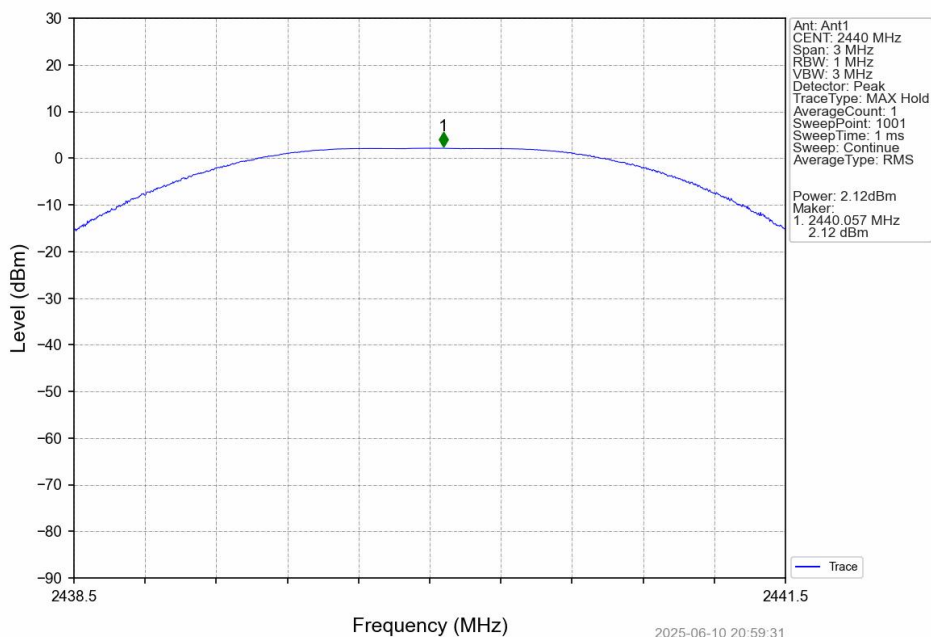




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

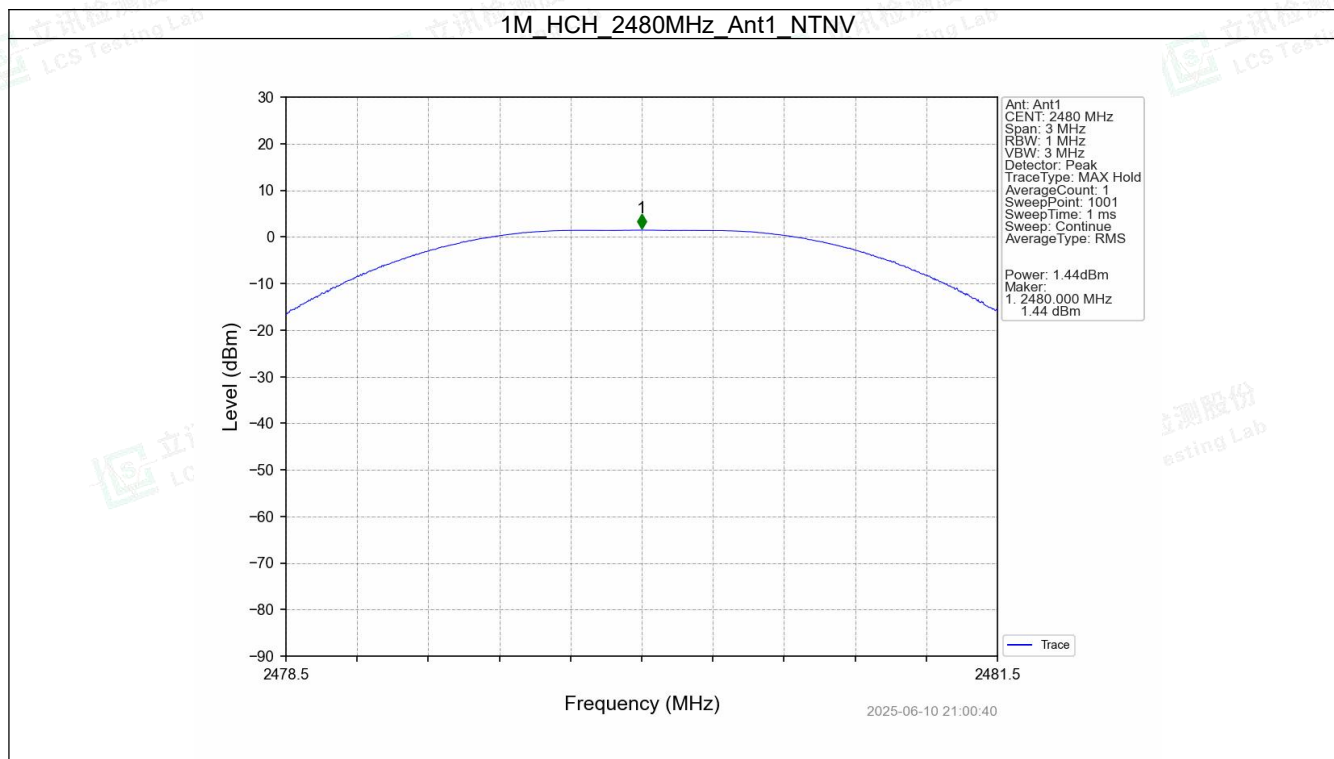


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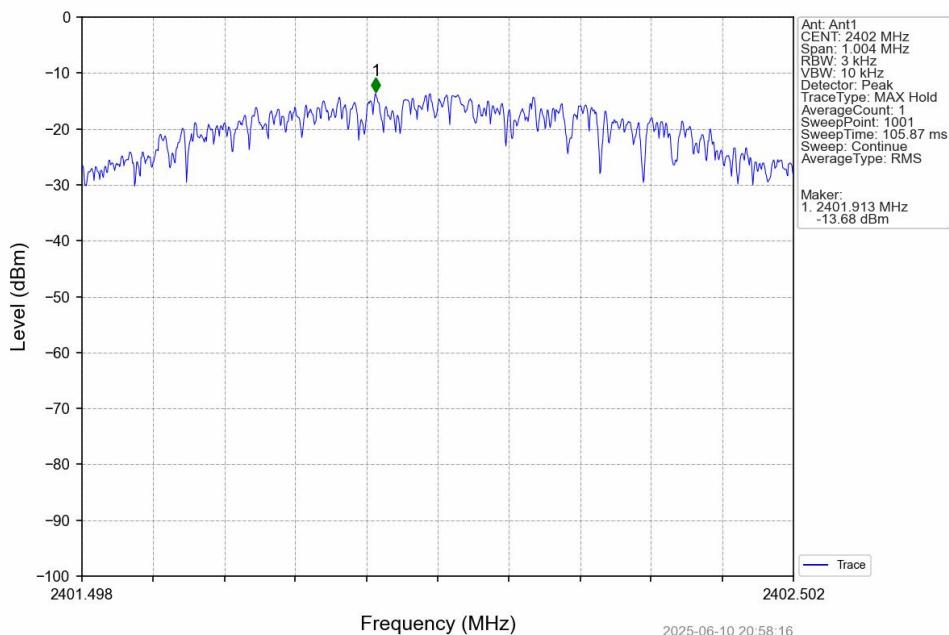
A.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-13.68	<=8	Pass
		2440	-13.86	<=8	Pass
		2480	-14.15	<=8	Pass

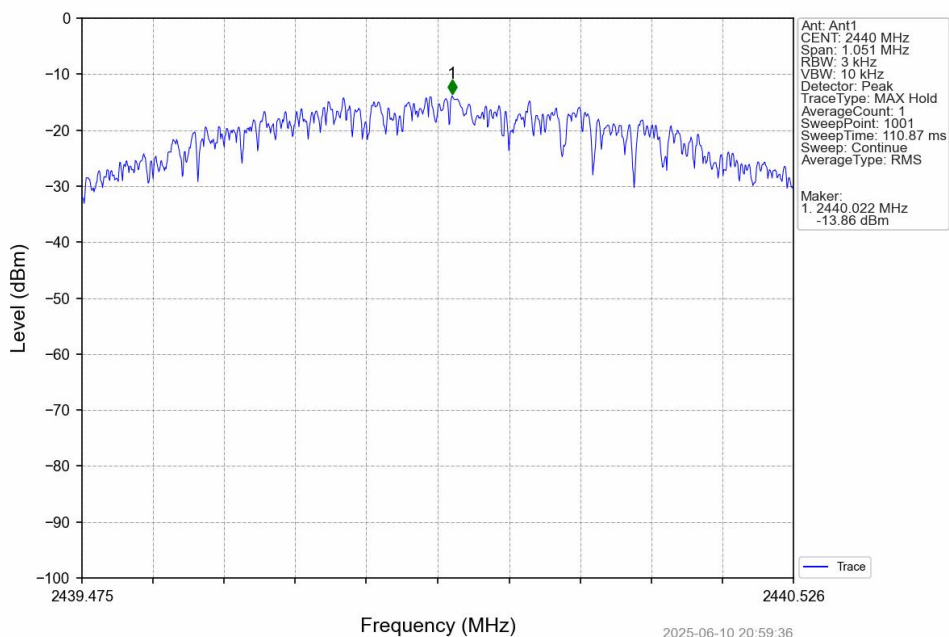




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

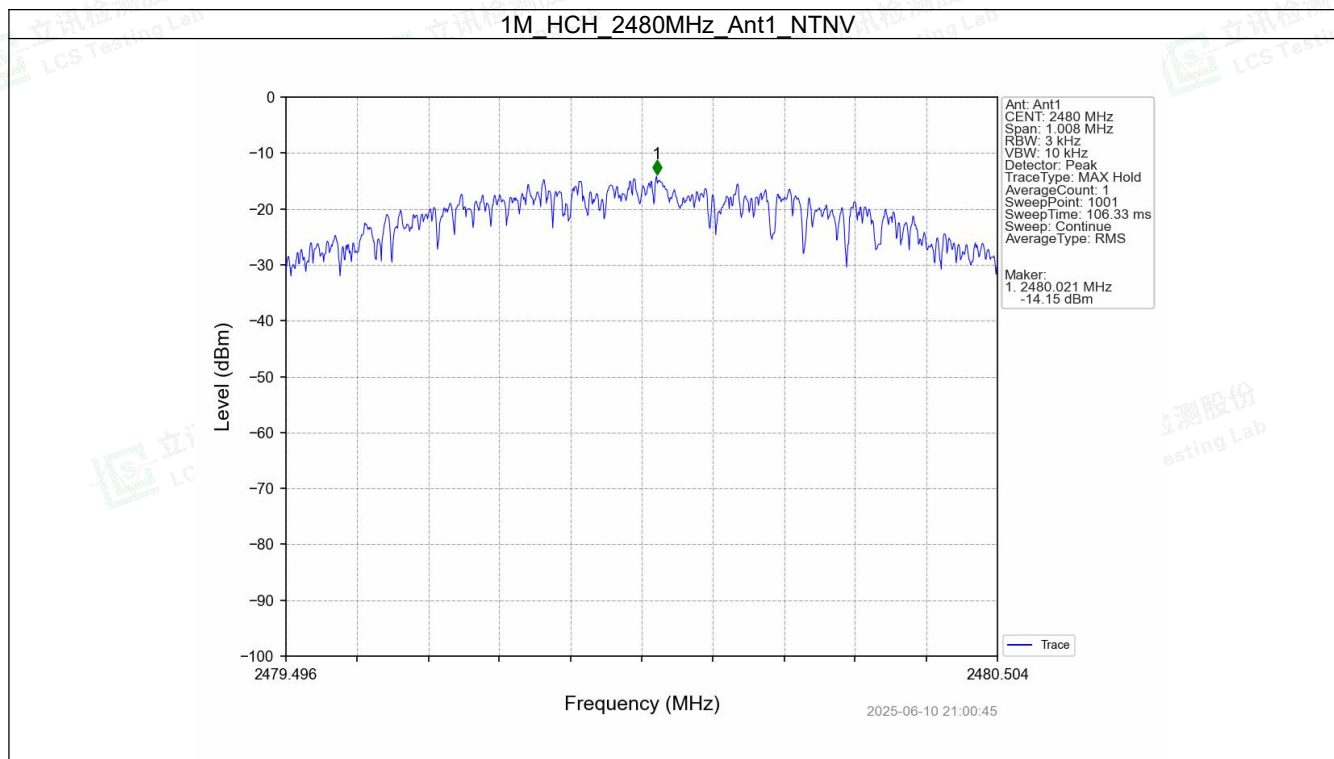


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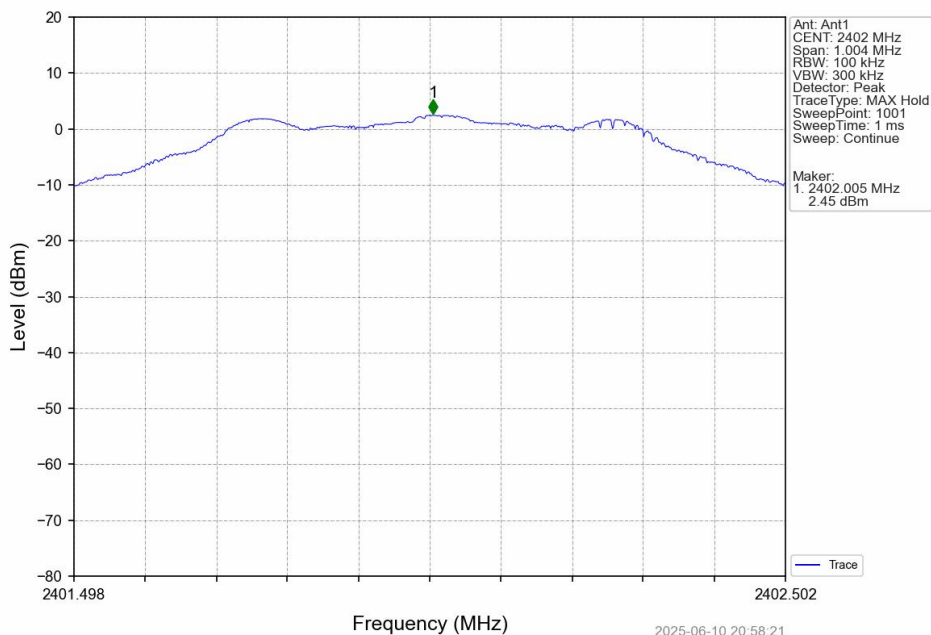
A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	2.45	-17.55	Pass
		2440	1	1.98	-18.02	Pass
		2480	1	1.36	-18.64	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

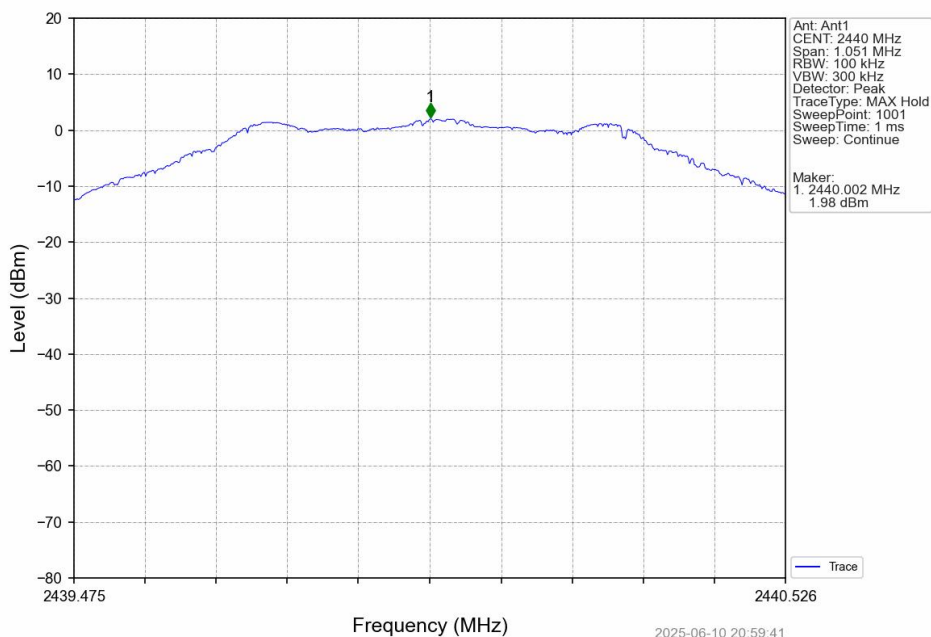




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

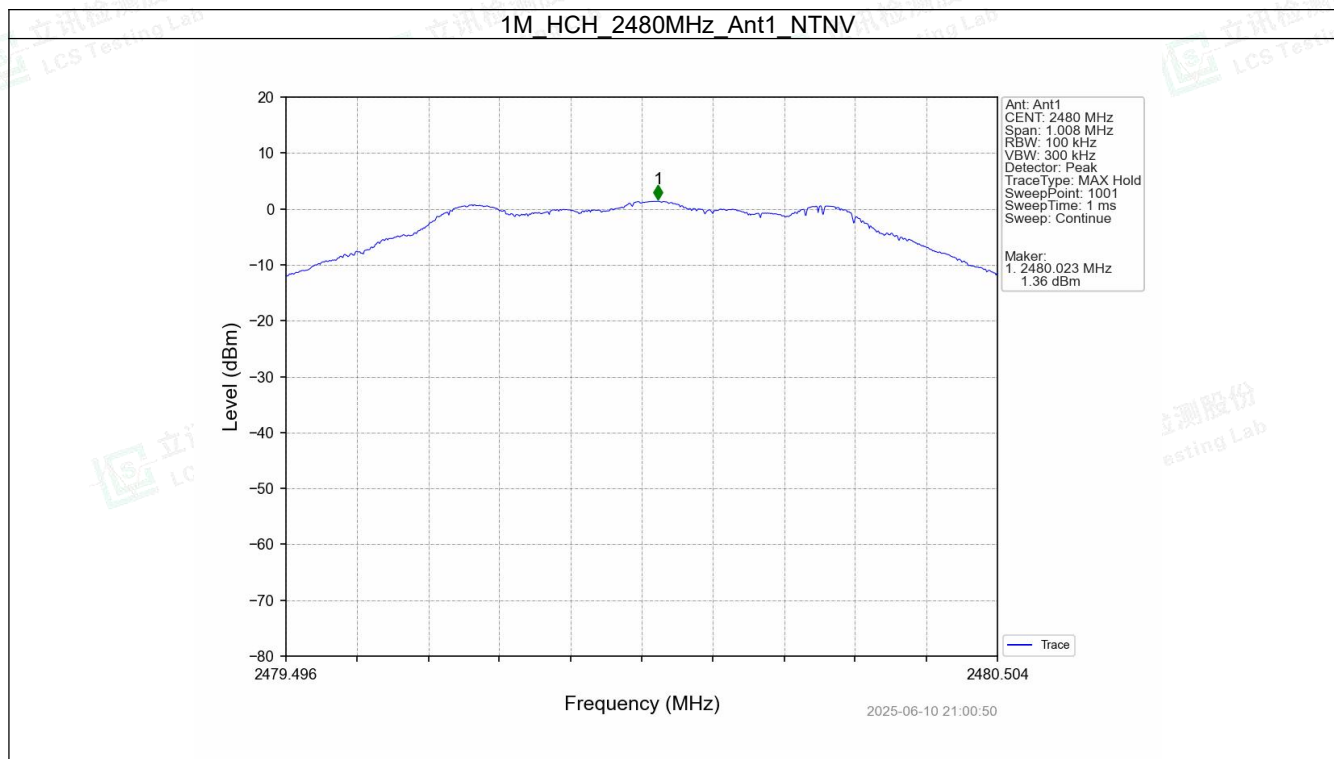


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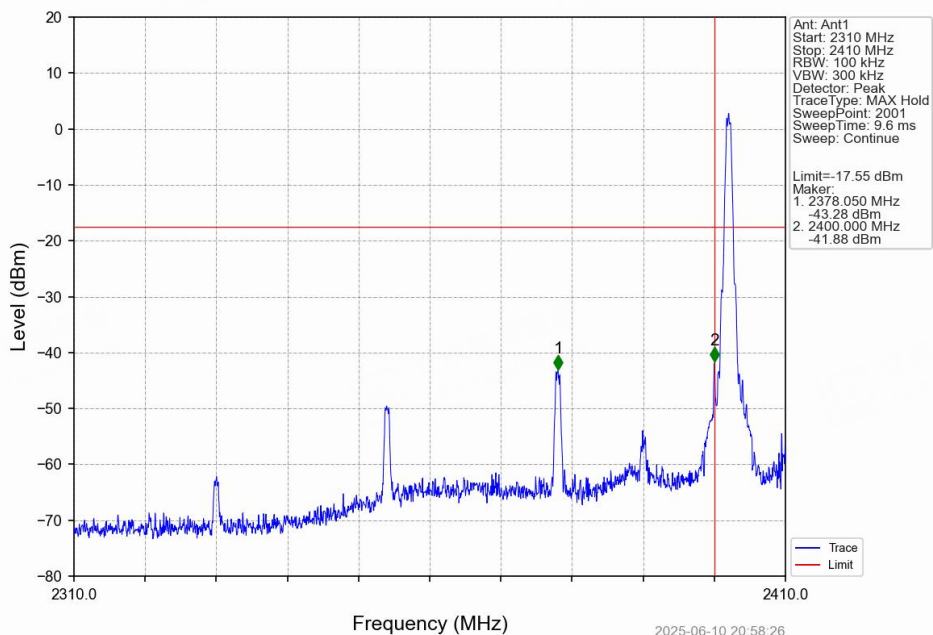
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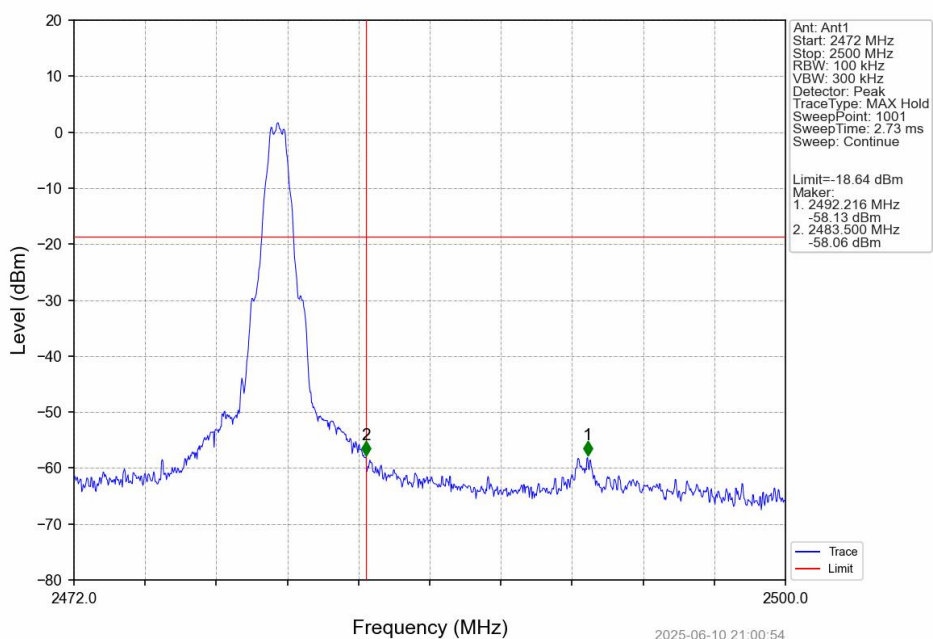




1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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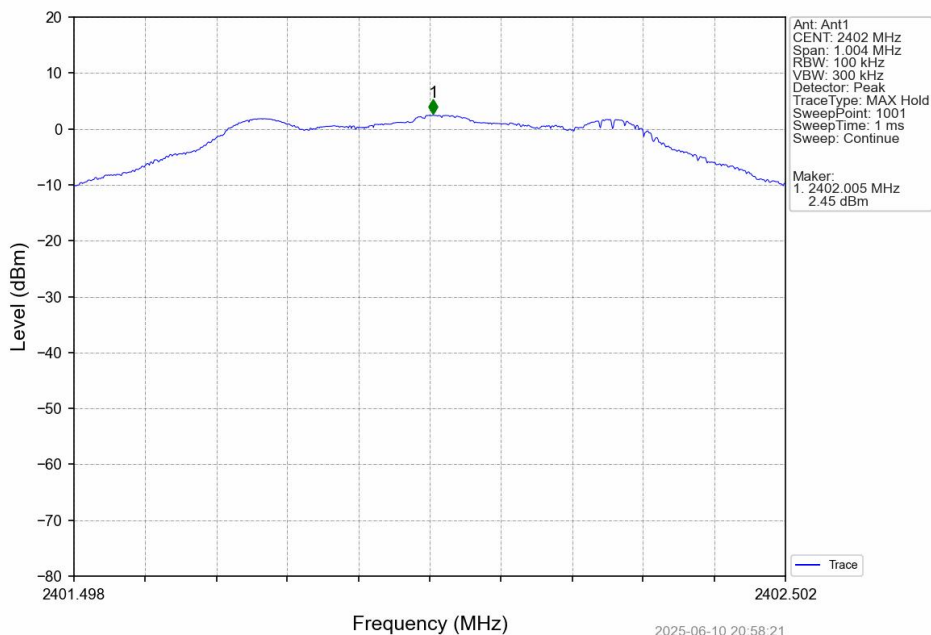
A.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	2.45
		2440	1	1.98
		2480	1	1.36
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

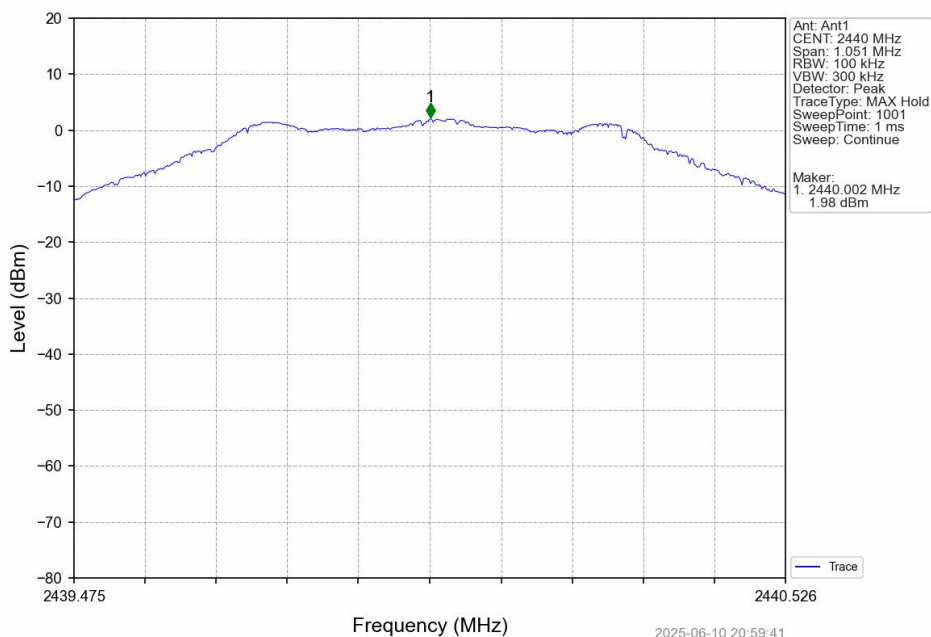




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

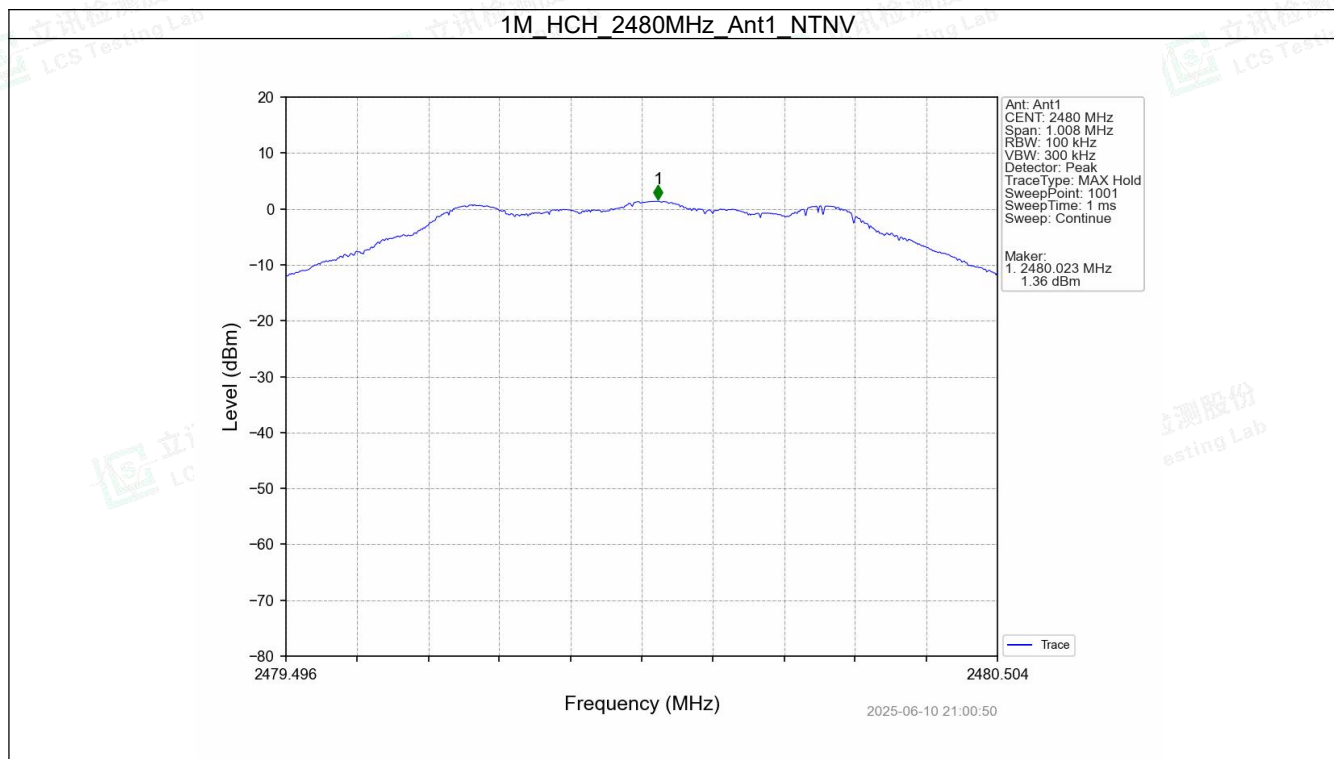


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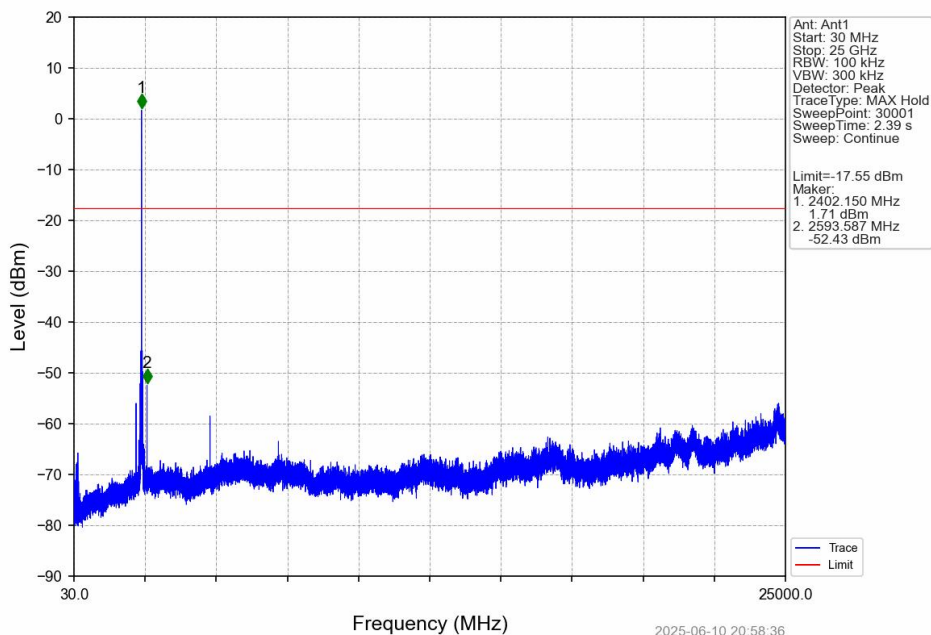
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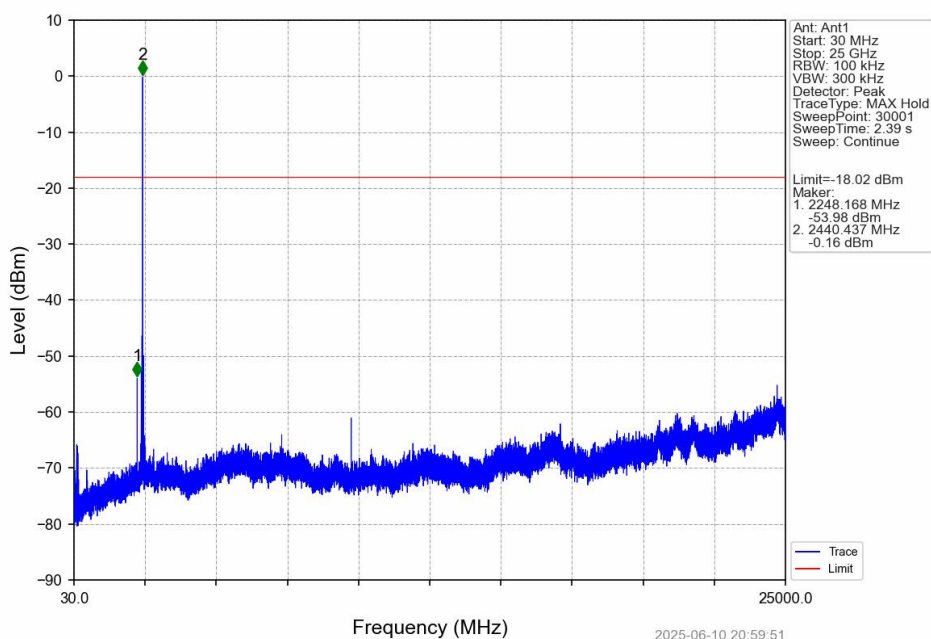




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

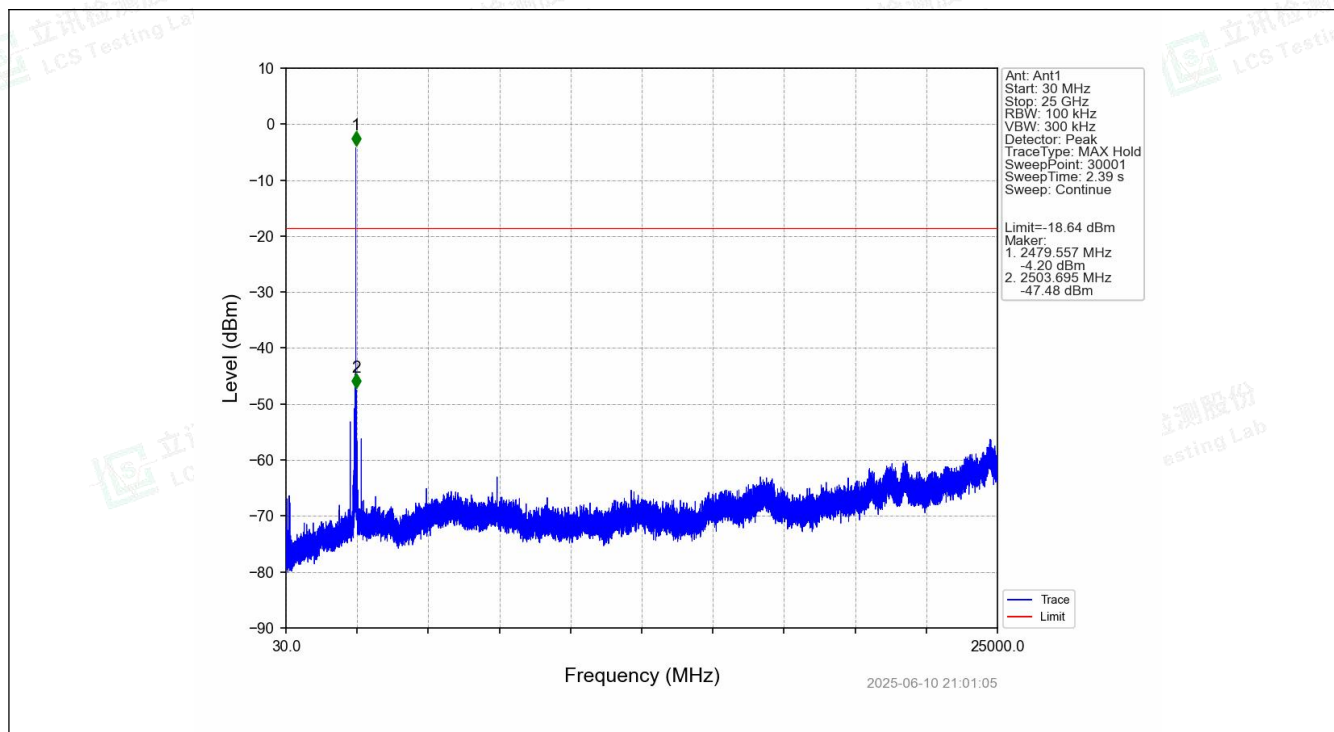


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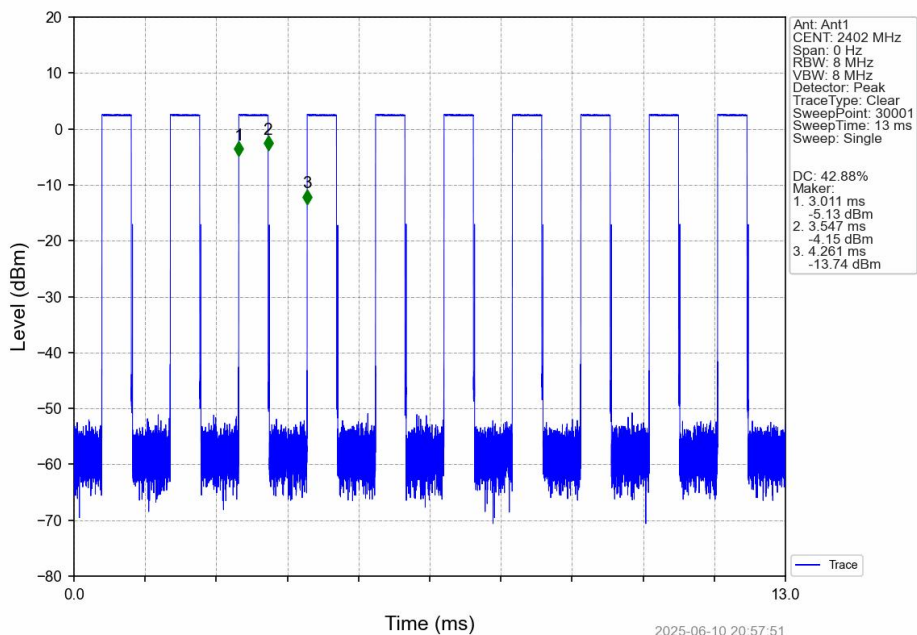
A.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.536	1.250	42.88	3.68	0.03
		2440	0.536	1.250	42.88	3.68	0.03
		2480	0.536	1.250	42.88	3.68	0.03

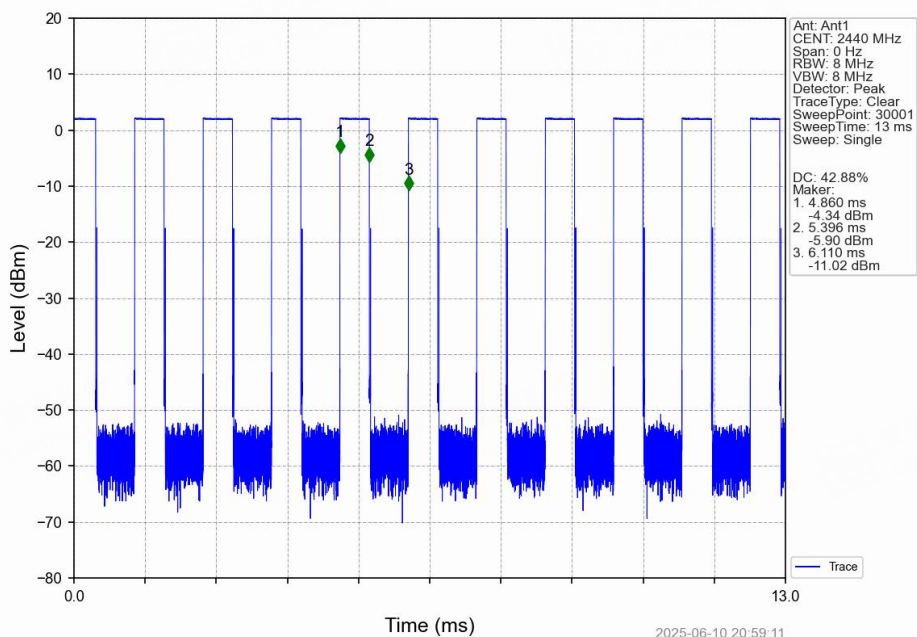




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

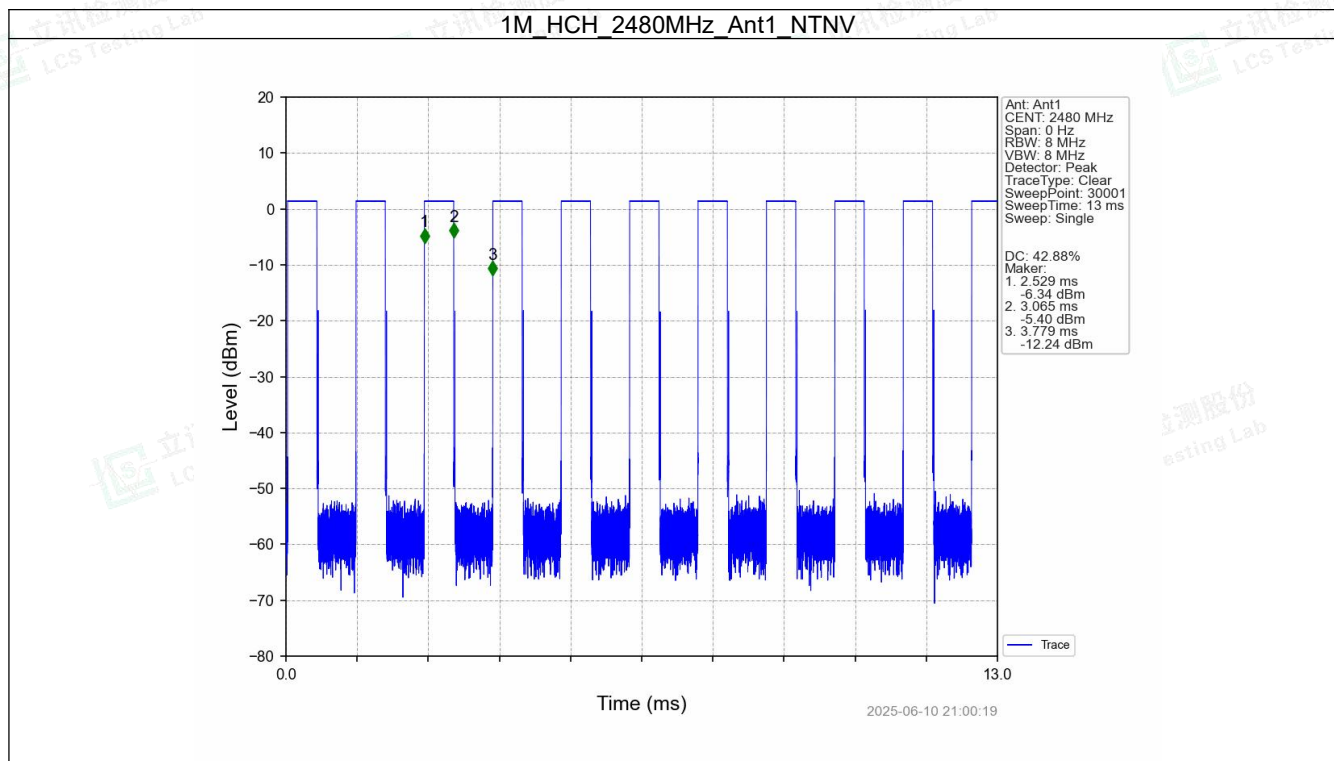


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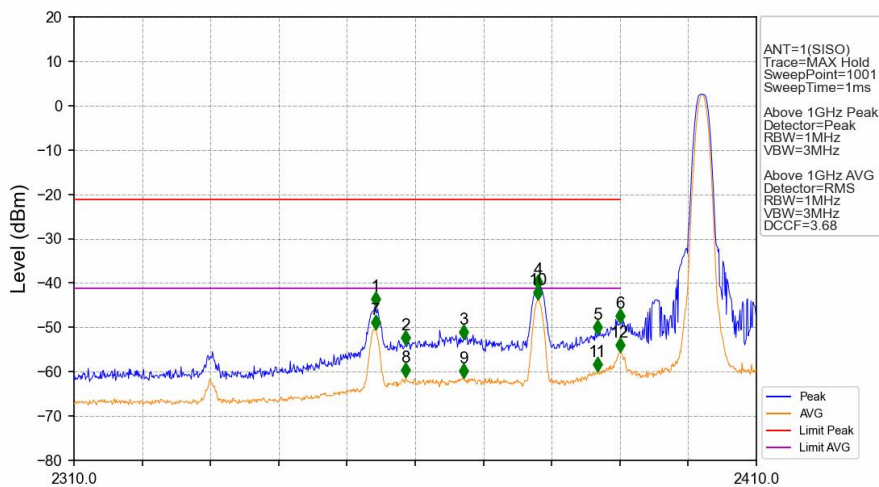
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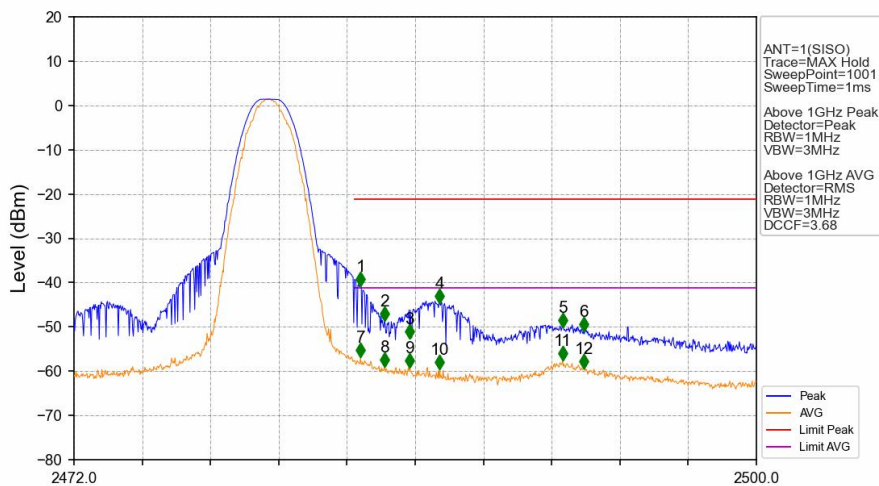
A.7 Restrict Band

1M_LCH_2402MHz_Ant1_NTNV



Frequency (MHz)											
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
1	2354.200	-45.15	-21.20	23.95	Pass	Peak	7	2354.200	-50.44	-41.20	9.24
2	2358.600	-53.82	-21.20	32.62	Pass	Peak	8	2358.600	-61.27	-41.20	20.07
3	2367.100	-52.56	-21.20	31.36	Pass	Peak	9	2367.100	-61.42	-41.20	20.22
4	2378.000	-41.41	-21.20	20.21	Pass	Peak	10	2378.000	-43.63	-41.20	2.43
5	2386.700	-51.51	-21.20	30.31	Pass	Peak	11	2386.700	-59.97	-41.20	18.77
6	2390.000	-48.91	-21.20	27.71	Pass	Peak	12	2390.000	-55.62	-41.20	14.42

1M_HCH_2480MHz_Ant1_NTNV



Frequency (MHz)											
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
1	2483.760	-40.82	-21.20	19.62	Pass	Peak	7	2483.760	-56.85	-41.20	15.65
2	2484.740	-48.56	-21.20	27.36	Pass	Peak	8	2484.740	-59.04	-41.20	17.84
3	2485.776	-52.58	-21.20	31.38	Pass	Peak	9	2485.776	-59.12	-41.20	17.92
4	2487.008	-44.55	-21.20	23.35	Pass	Peak	10	2487.008	-59.58	-41.20	18.38
5	2492.048	-50.02	-21.20	28.82	Pass	Peak	11	2492.048	-57.59	-41.20	16.39
6	2492.916	-50.94	-21.20	29.74	Pass	Peak	12	2492.916	-59.39	-41.20	18.19



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