



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Strip light

Test Model: TAN1L15020W-JH13

Environmental Conditions

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



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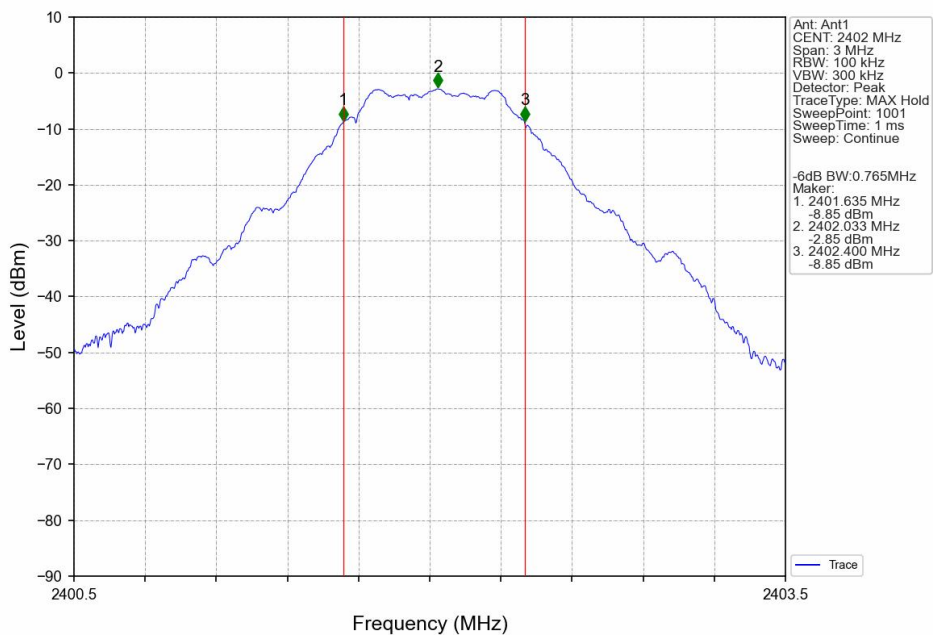
A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.765	≥ 0.5	Pass
		2440	1	0.762	≥ 0.5	Pass
		2480	1	0.730	≥ 0.5	Pass

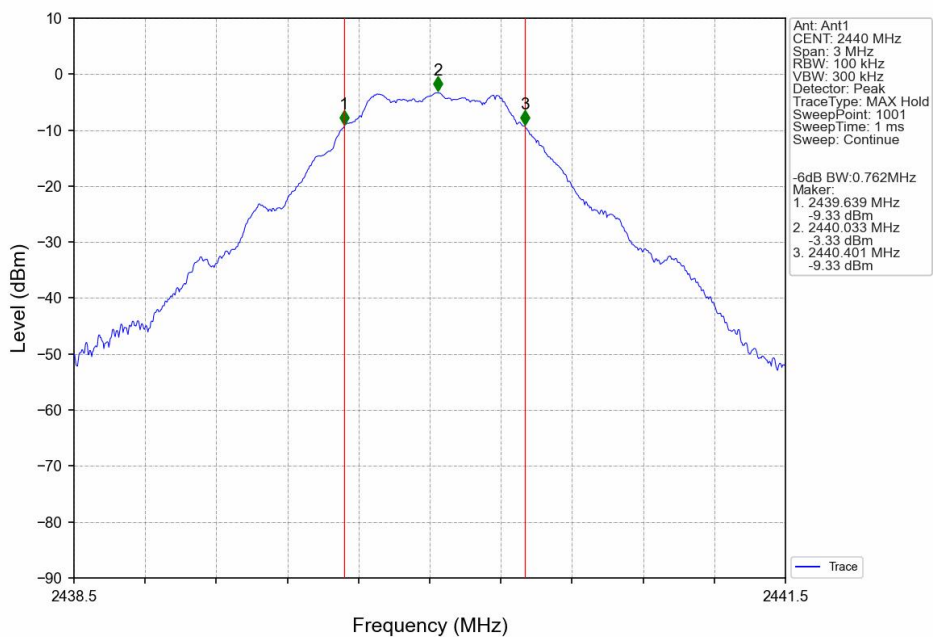




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

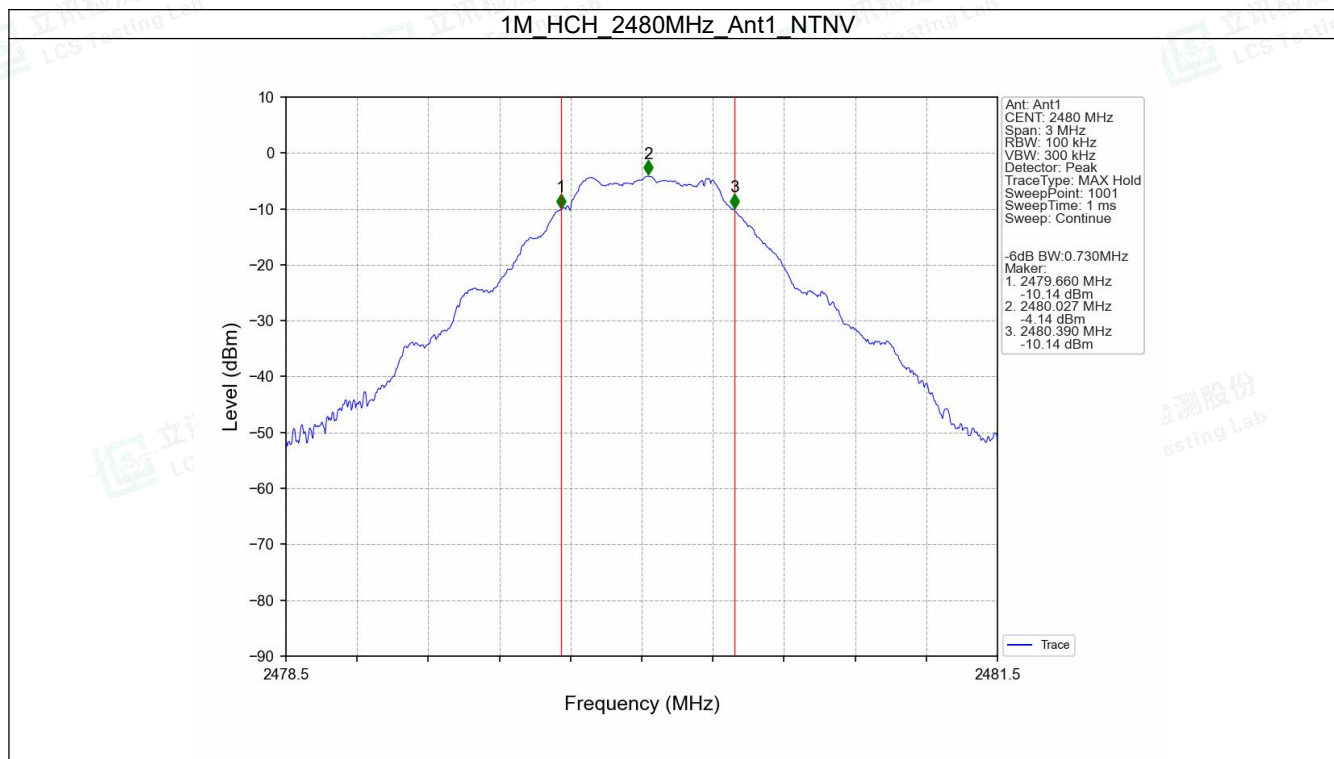


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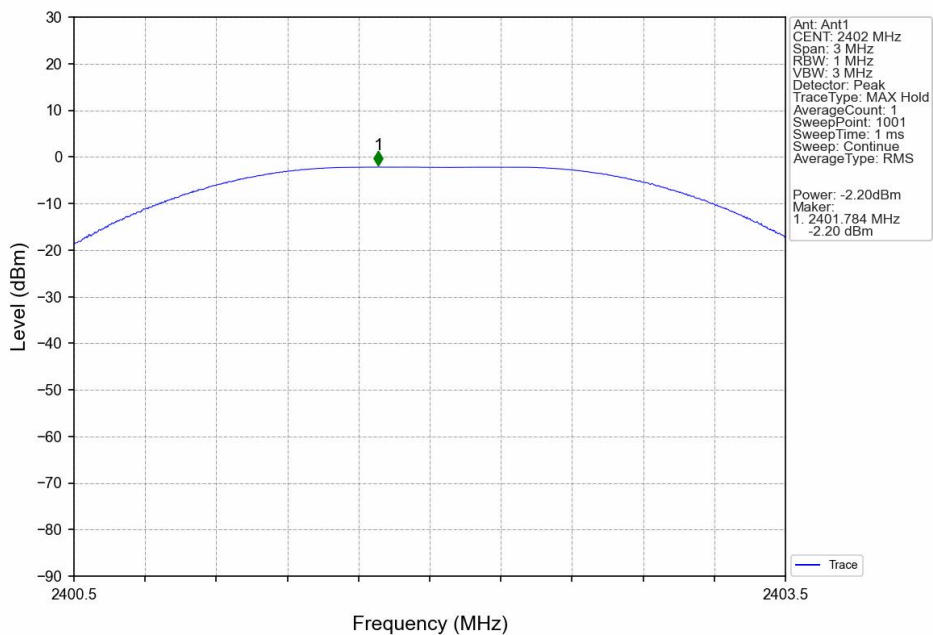
A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-2.20	<=30	Pass
		2440	-2.78	<=30	Pass
		2480	-3.57	<=30	Pass

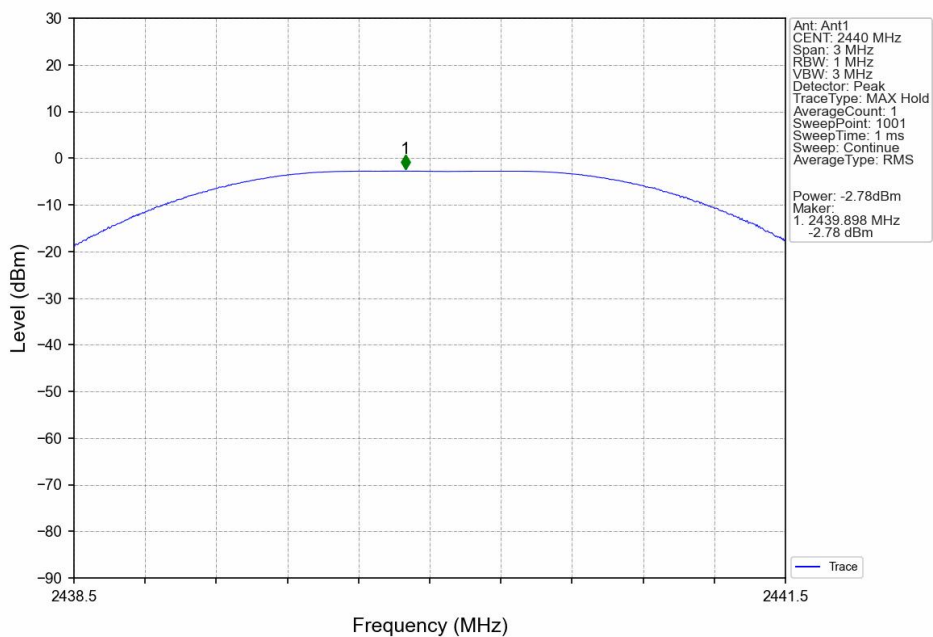




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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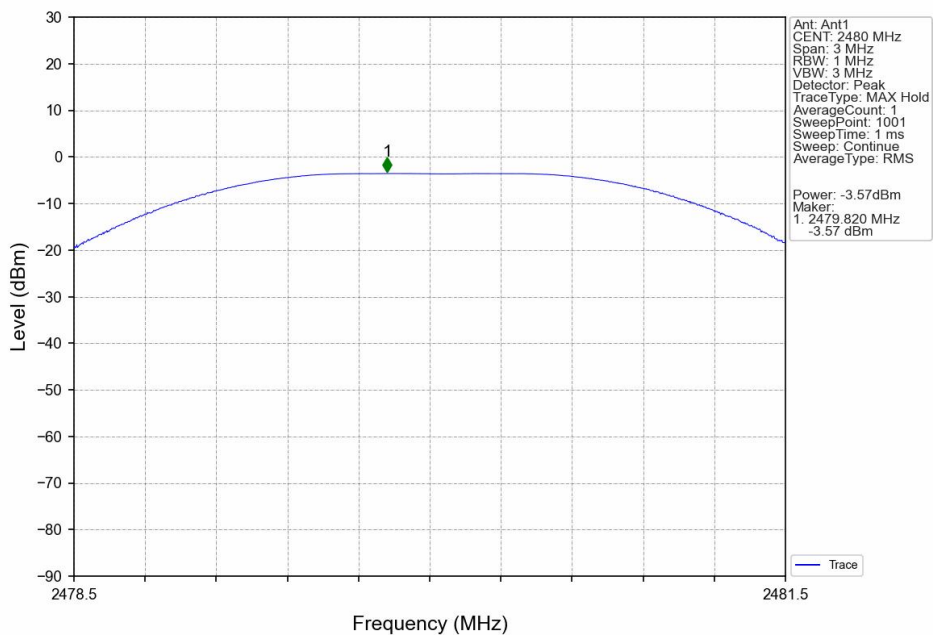
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1M_HCH_2480MHz_Ant1_NTNV





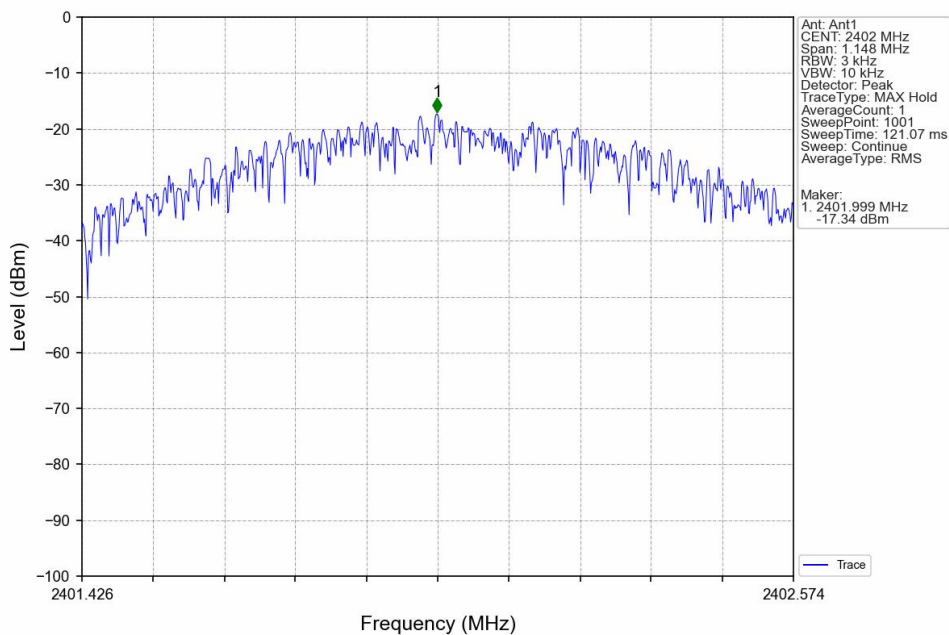
A.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.34	<=8	Pass
		2440	-18.06	<=8	Pass
		2480	-19.18	<=8	Pass

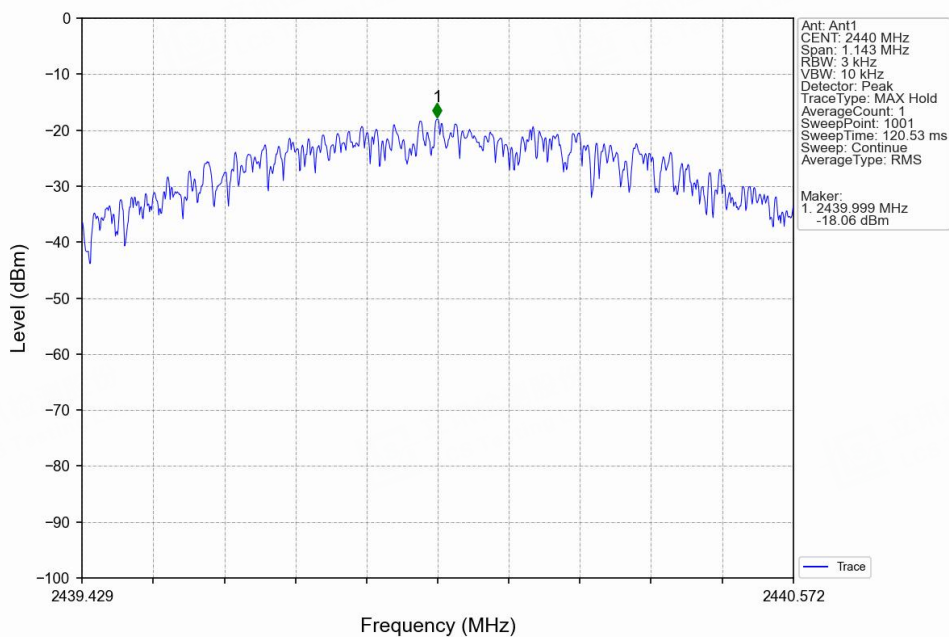




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

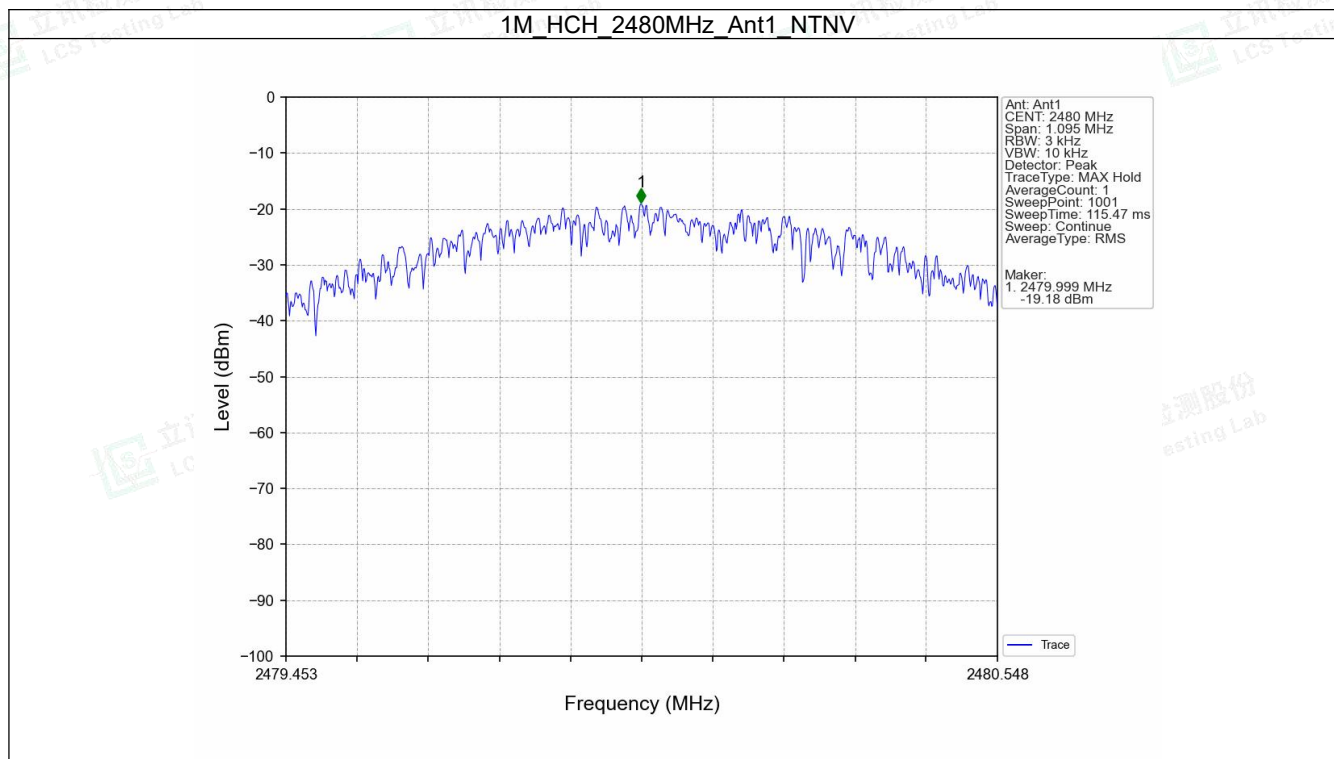


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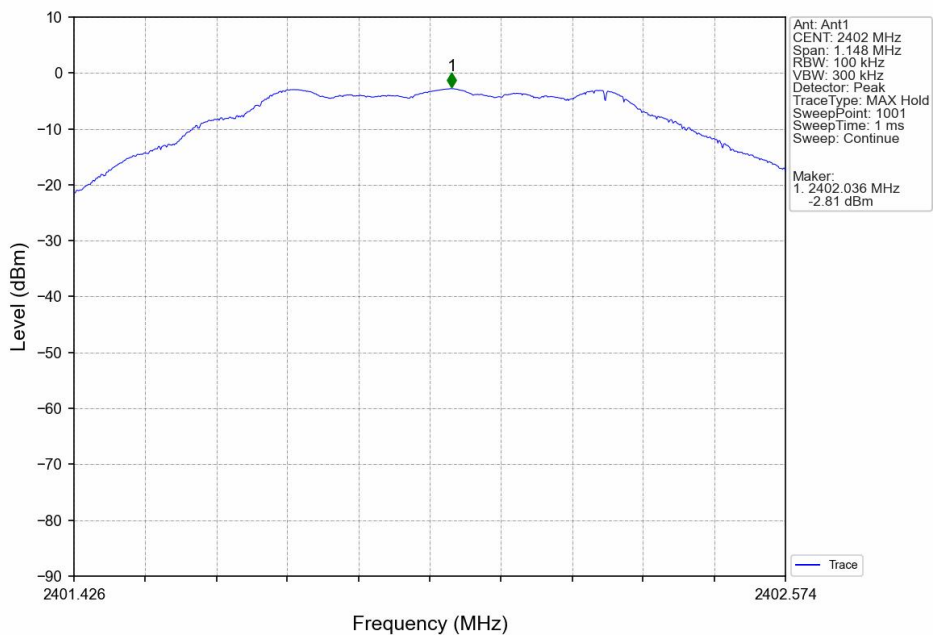
A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-2.81	-22.81	Pass
		2440	1	-2.81	-22.81	Pass
		2480	1	-2.81	-22.81	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.						

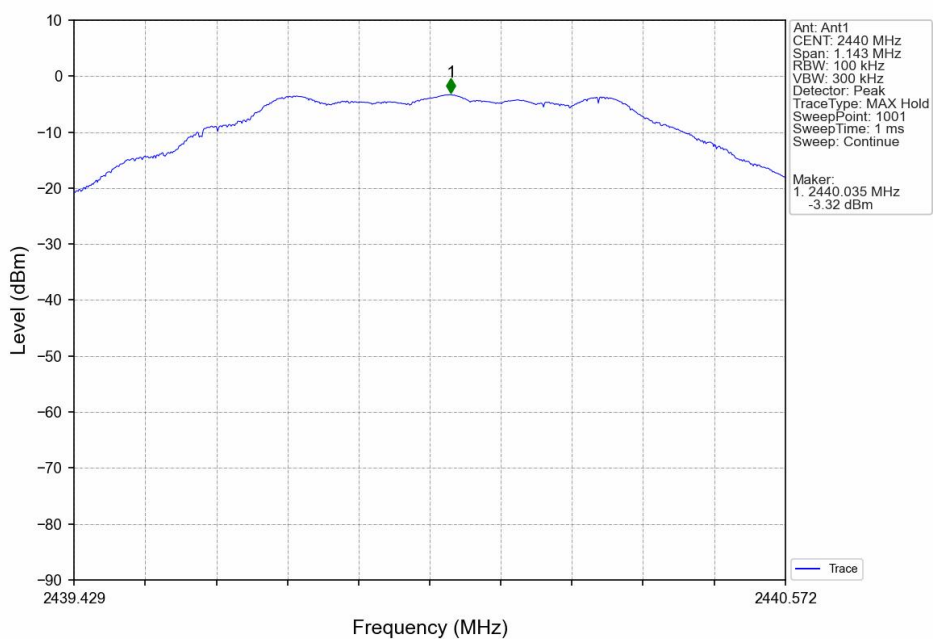




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

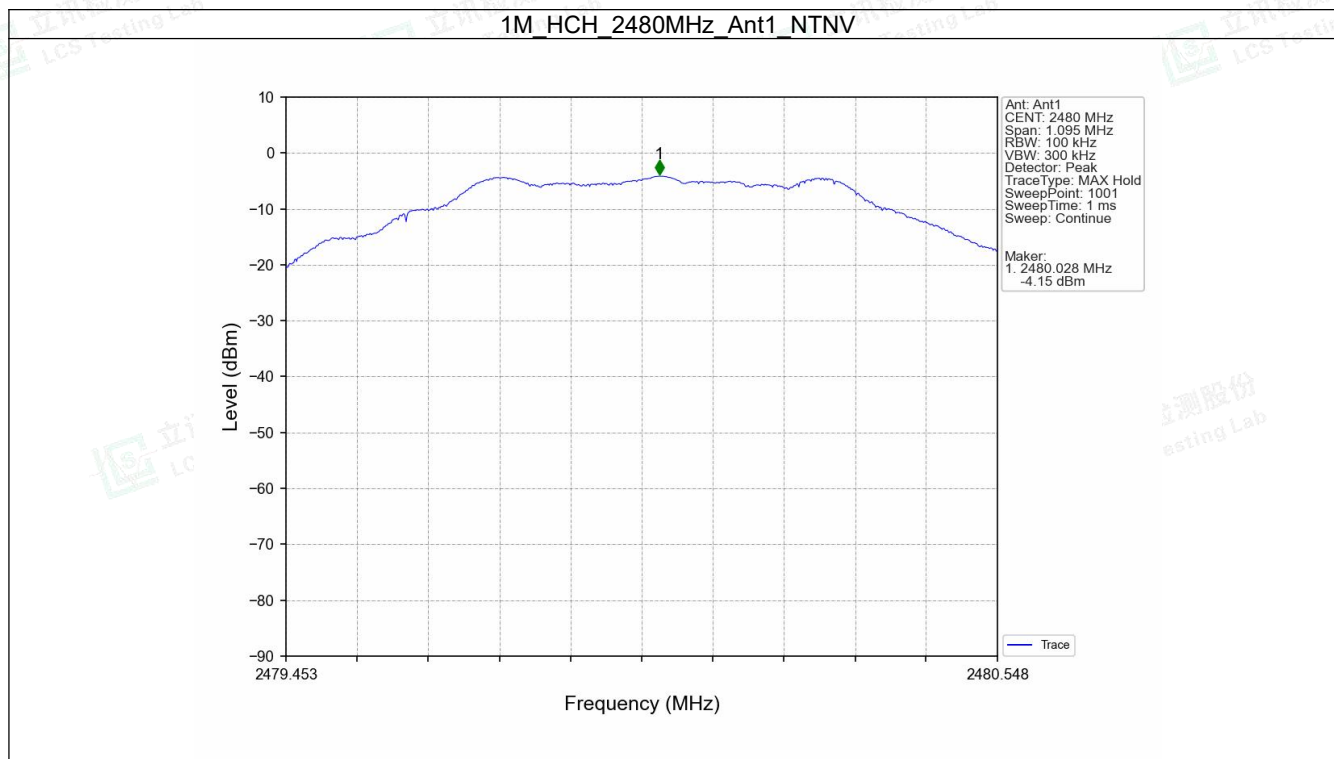


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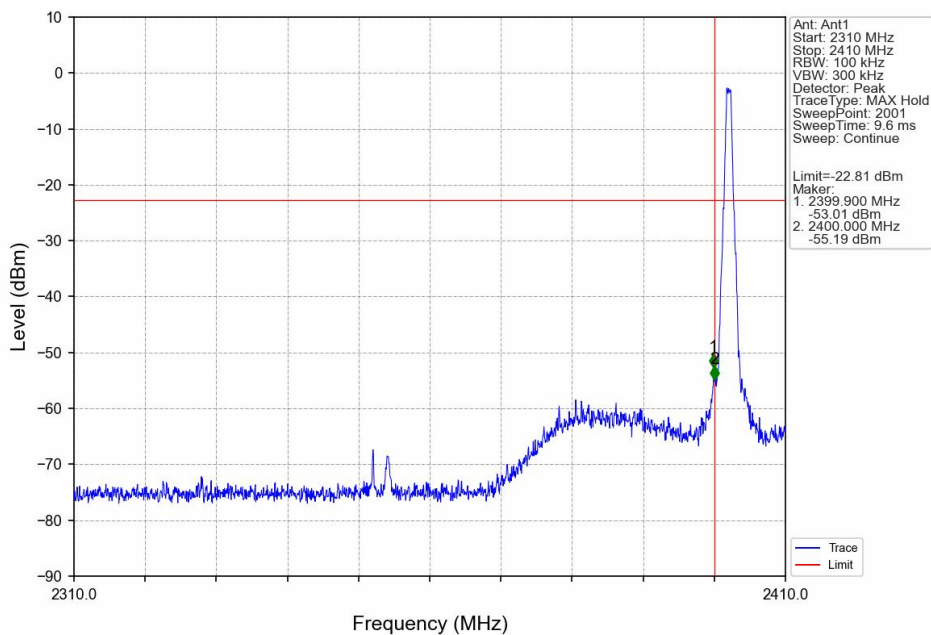
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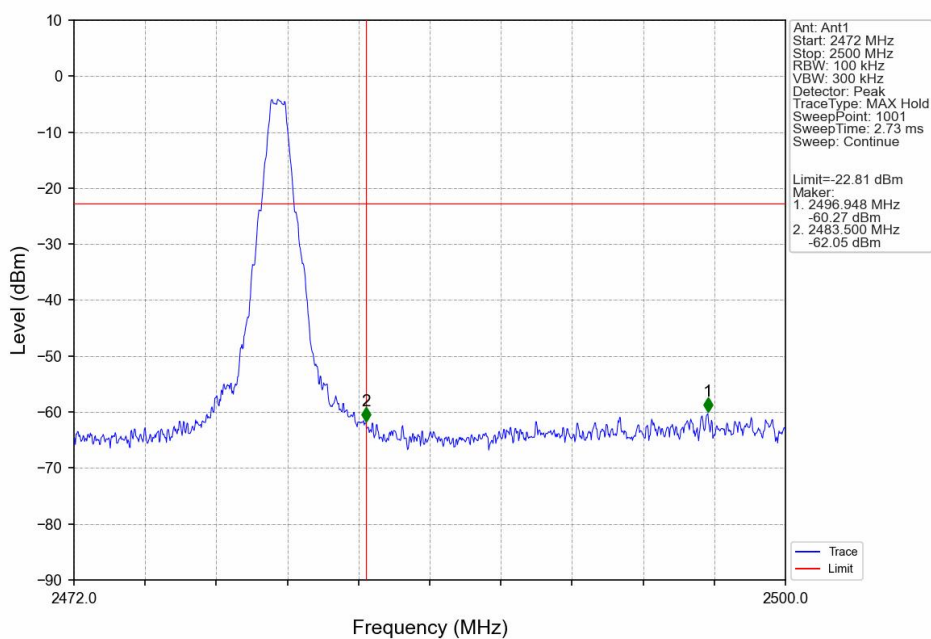




1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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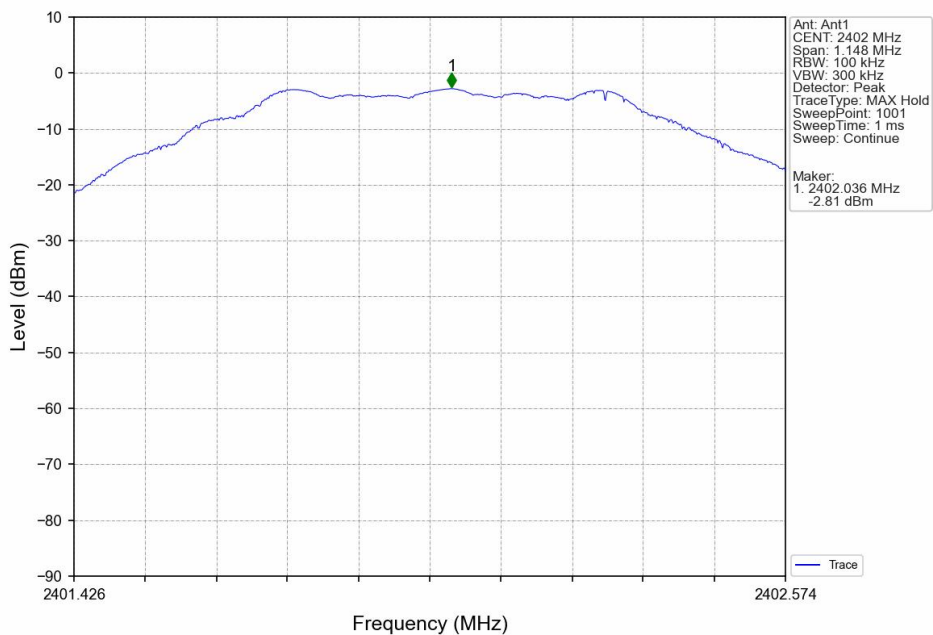
A.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-2.81
		2440	1	-3.32
		2480	1	-4.15
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.				

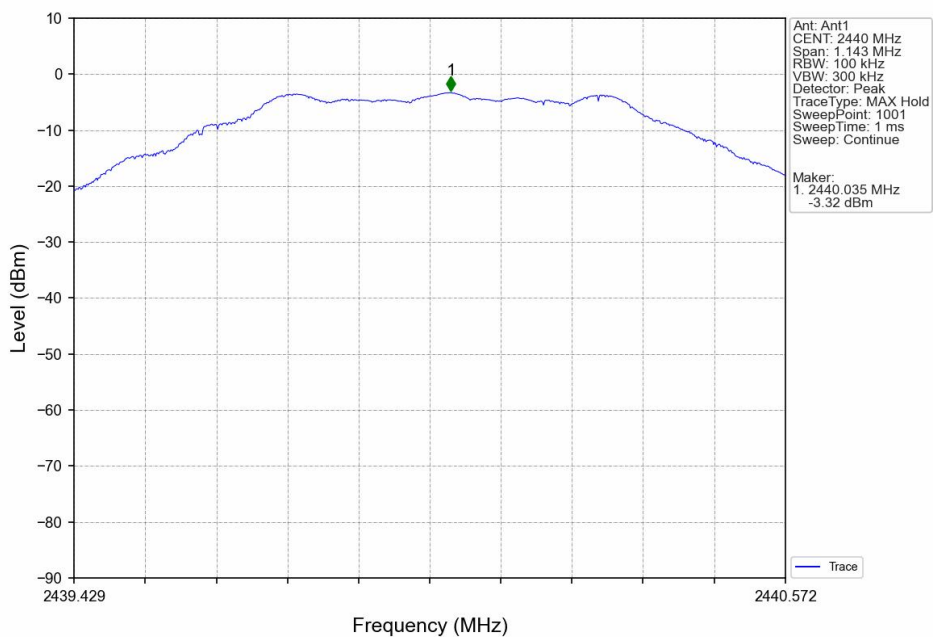




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

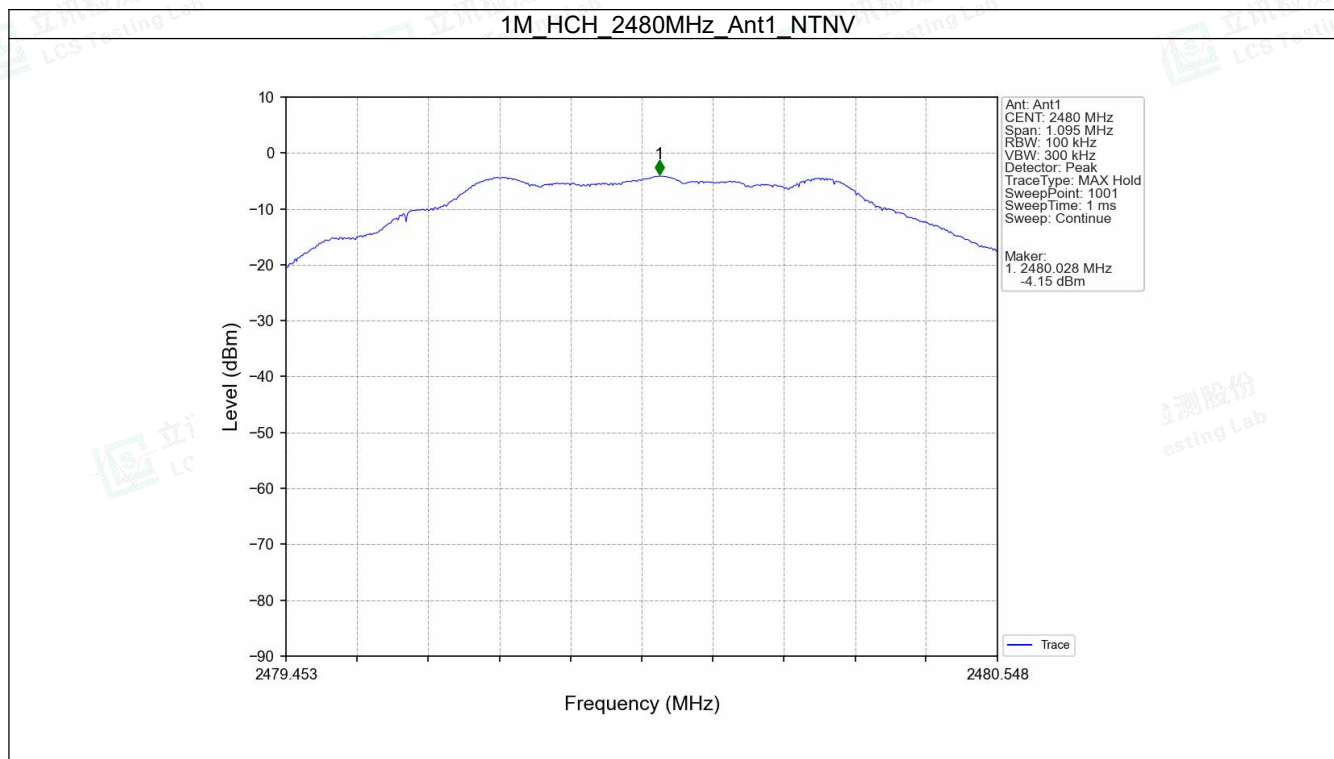


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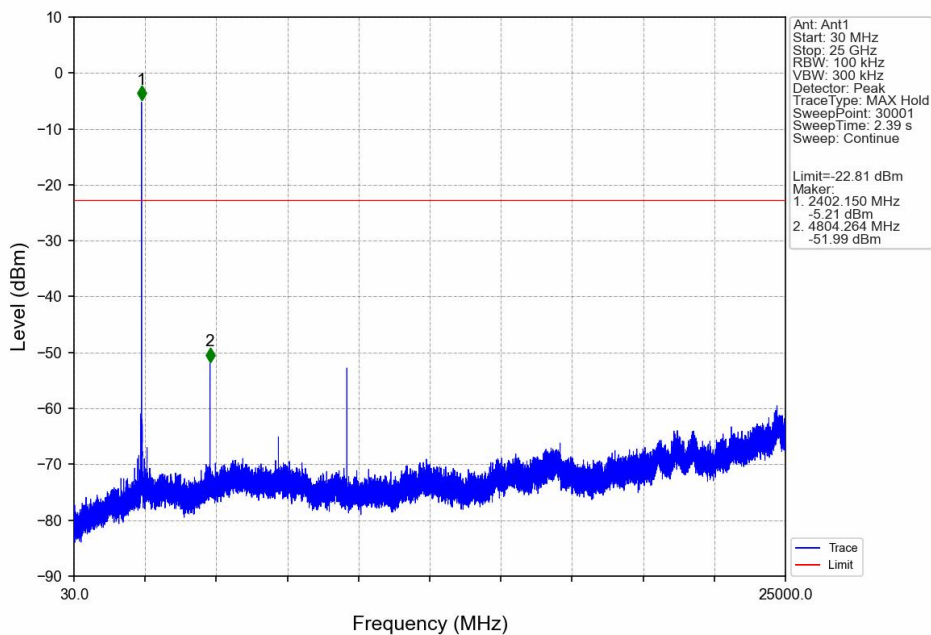
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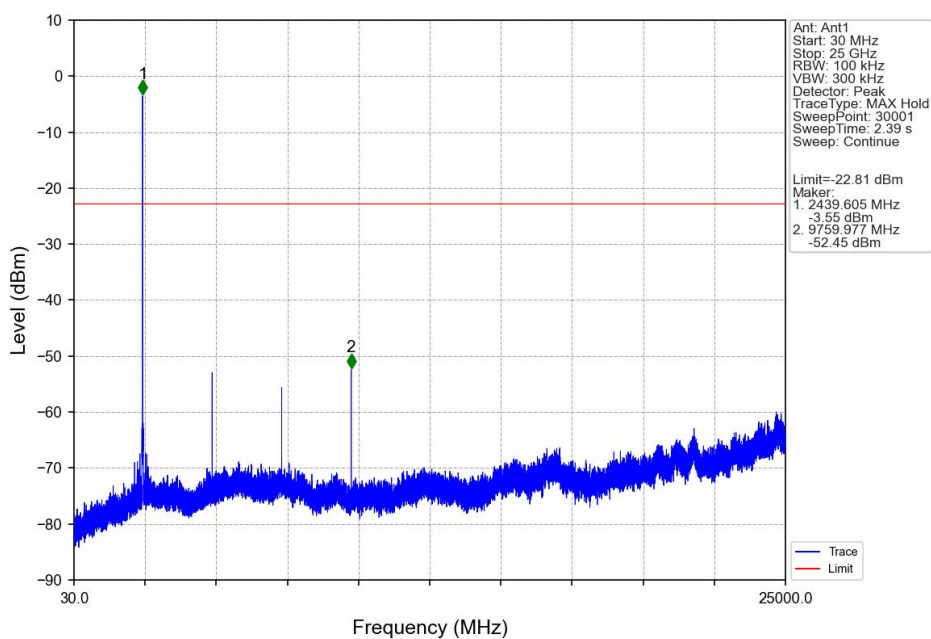
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

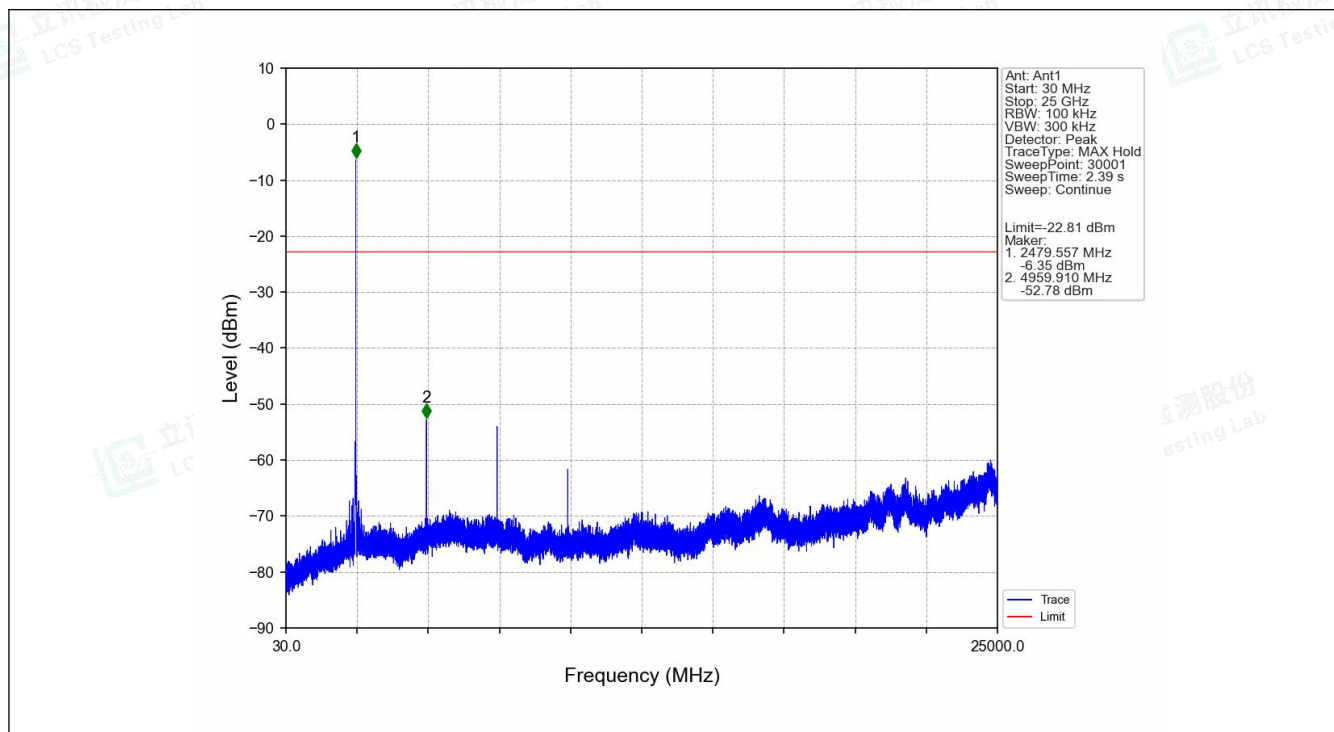


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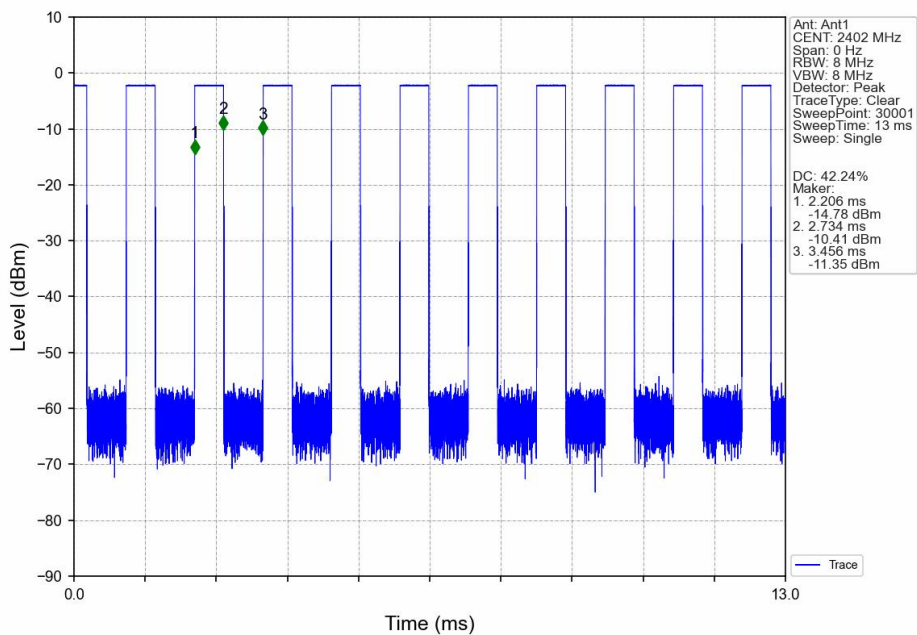
A.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.528	1.250	42.24	3.74	0.03
		2440	0.528	1.250	42.24	3.74	0.03
		2480	0.528	1.250	42.24	3.74	0.03

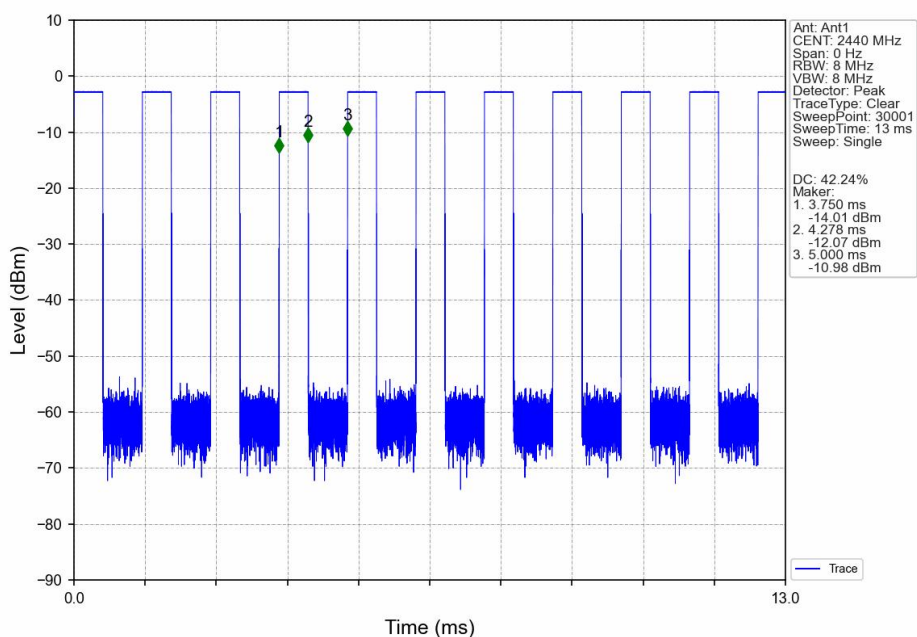




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

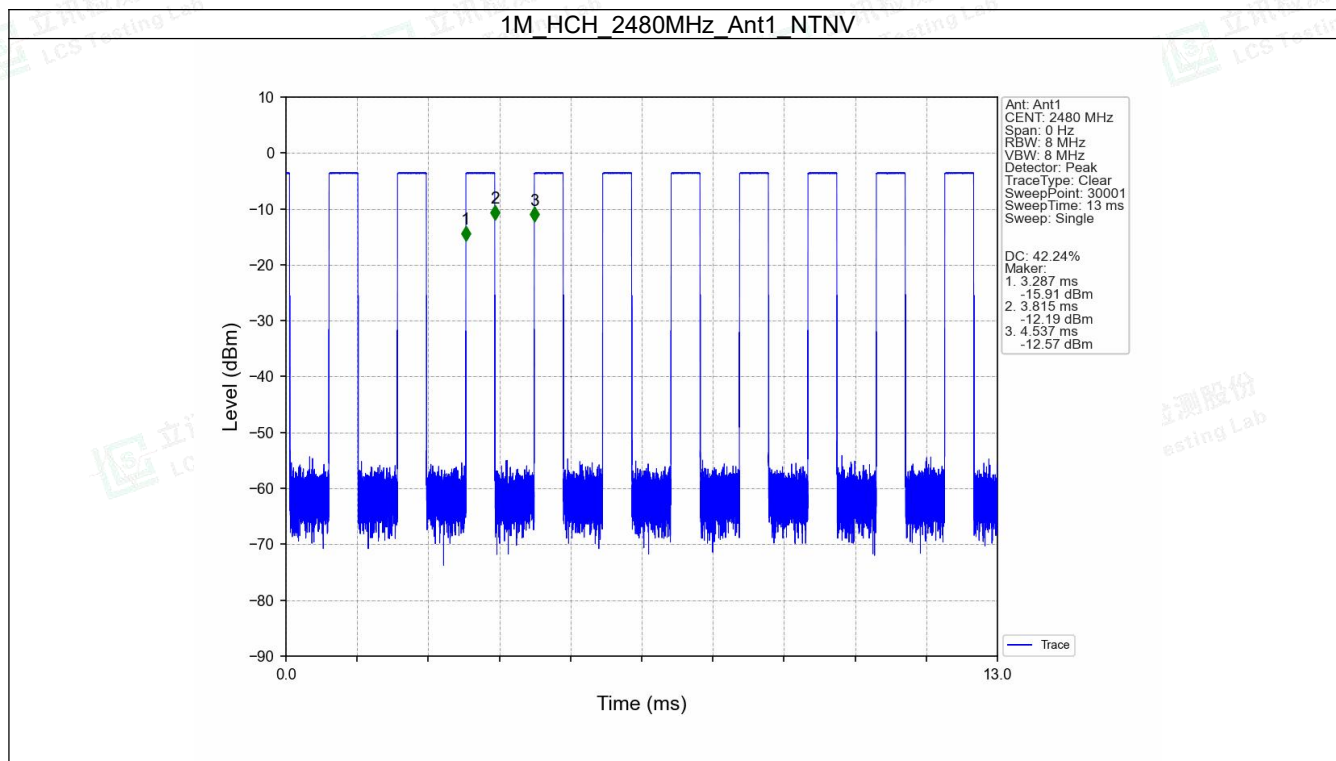


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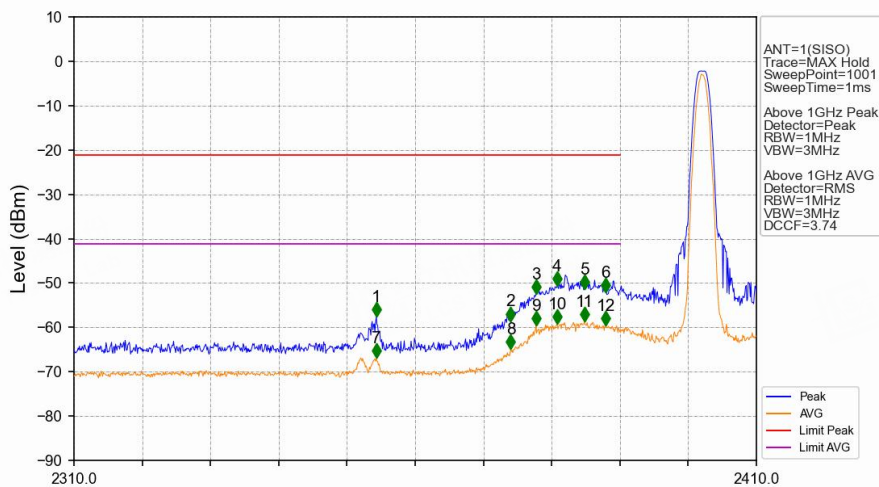
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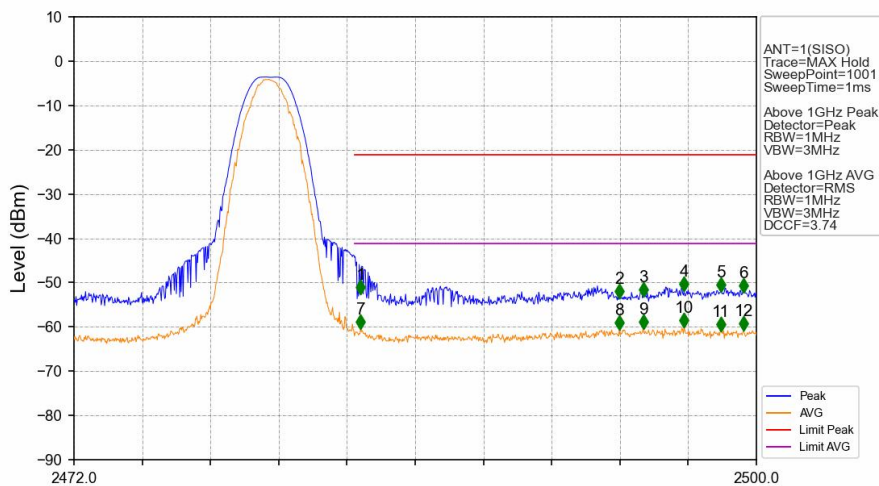
A.7 Restrict Band

1M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2354.300	-57.50	-21.20	36.30	Pass	Peak	7	2354.300	-66.86	-41.20	25.66	Pass	AVG
2	2374.000	-58.53	-21.20	37.33	Pass	Peak	8	2374.000	-64.81	-41.20	23.61	Pass	AVG
3	2377.700	-52.43	-21.20	31.23	Pass	Peak	9	2377.700	-59.60	-41.20	18.40	Pass	AVG
4	2380.800	-50.66	-21.20	29.46	Pass	Peak	10	2380.800	-59.09	-41.20	17.89	Pass	AVG
5	2384.800	-51.35	-21.20	30.15	Pass	Peak	11	2384.800	-58.55	-41.20	17.35	Pass	AVG
6	2387.900	-52.04	-21.20	30.84	Pass	Peak	12	2387.900	-59.60	-41.20	18.40	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.760	-52.58	-21.20	31.38	Pass	Peak	7	2483.760	-60.39	-41.20	19.19	Pass	AVG
2	2494.372	-53.57	-21.20	32.37	Pass	Peak	8	2494.372	-60.63	-41.20	19.43	Pass	AVG
3	2495.352	-53.11	-21.20	31.91	Pass	Peak	9	2495.352	-60.39	-41.20	19.19	Pass	AVG
4	2497.032	-51.91	-21.20	30.71	Pass	Peak	10	2497.032	-60.07	-41.20	18.87	Pass	AVG
5	2498.544	-52.06	-21.20	30.86	Pass	Peak	11	2498.544	-60.96	-41.20	19.76	Pass	AVG
6	2499.468	-52.23	-21.20	31.03	Pass	Peak	12	2499.468	-60.80	-41.20	19.60	Pass	AVG



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