



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: TWS Earbuds With Screen Case

Test Model: TTY95

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

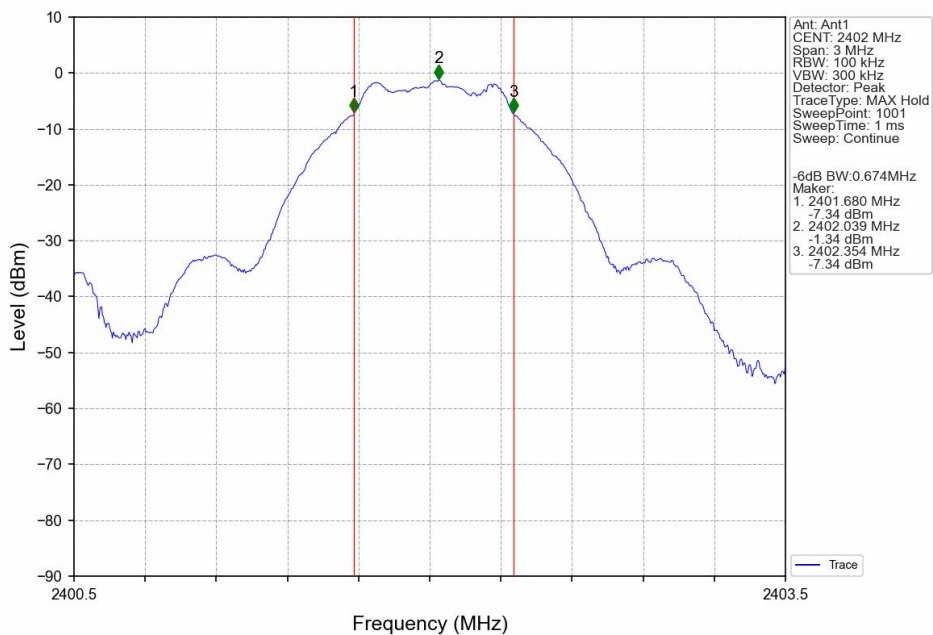
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.674	≥ 0.5	Pass
		2440	1	0.671	≥ 0.5	Pass
		2480	1	0.669	≥ 0.5	Pass



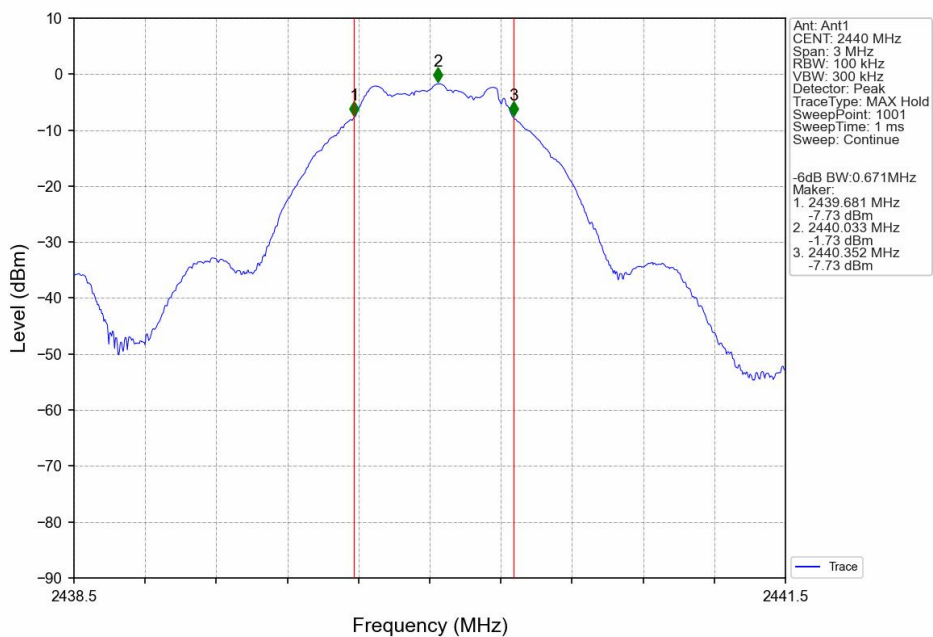
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1M_LCH_2402MHz_Ant1_NTNV

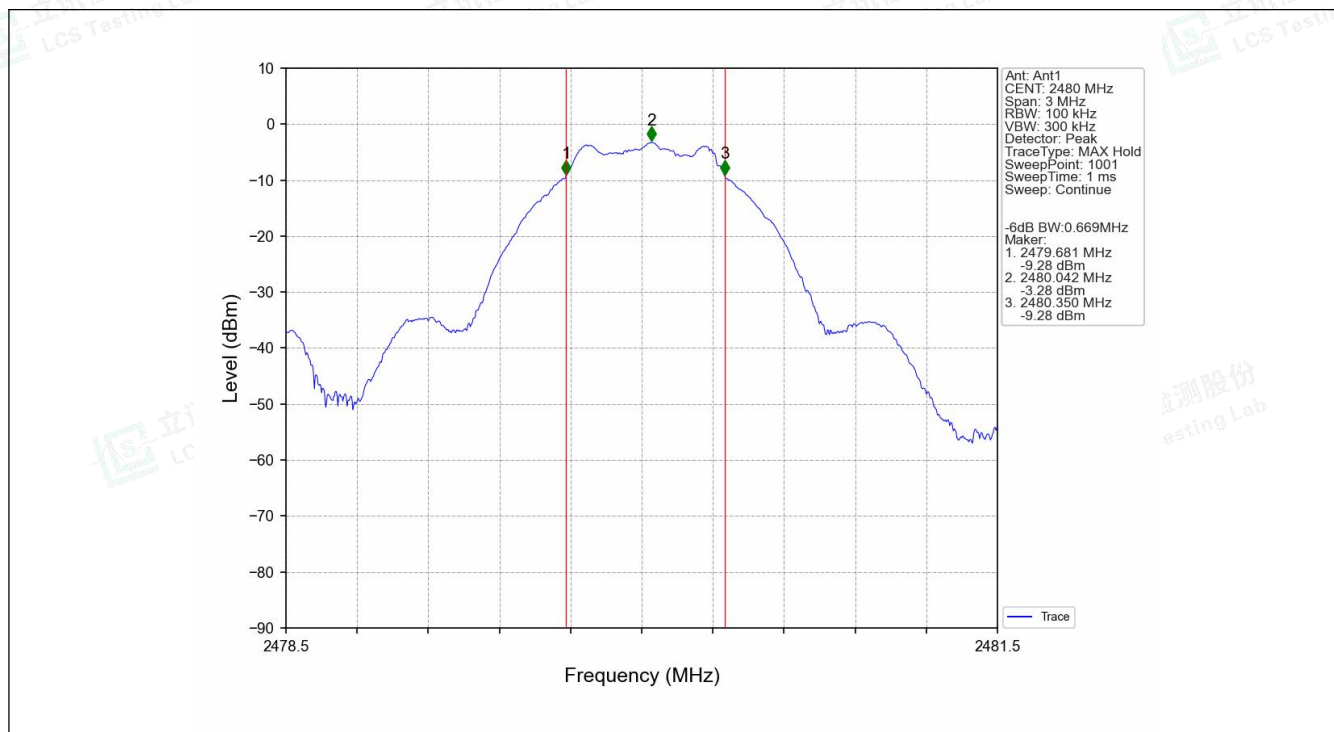


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV







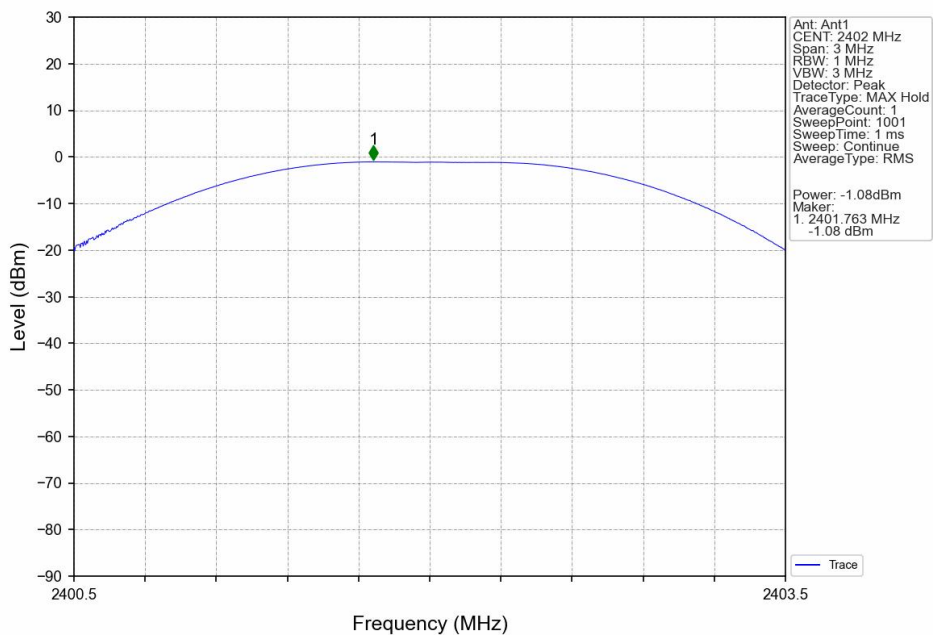
A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.08	≤ 30	Pass
		2440	-1.48	≤ 30	Pass
		2480	-3.03	≤ 30	Pass

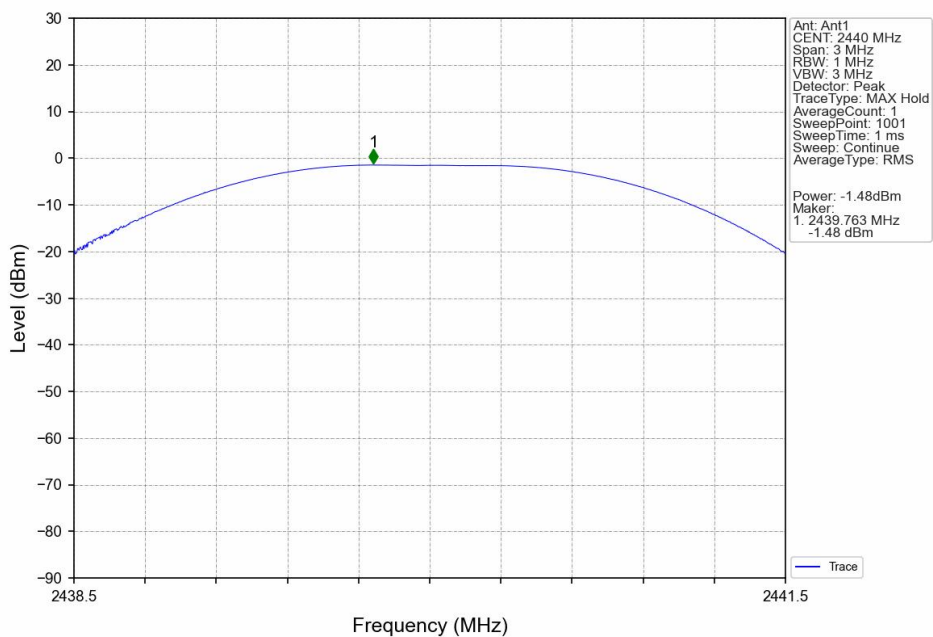




1M_LCH_2402MHz_Ant1_NTNV

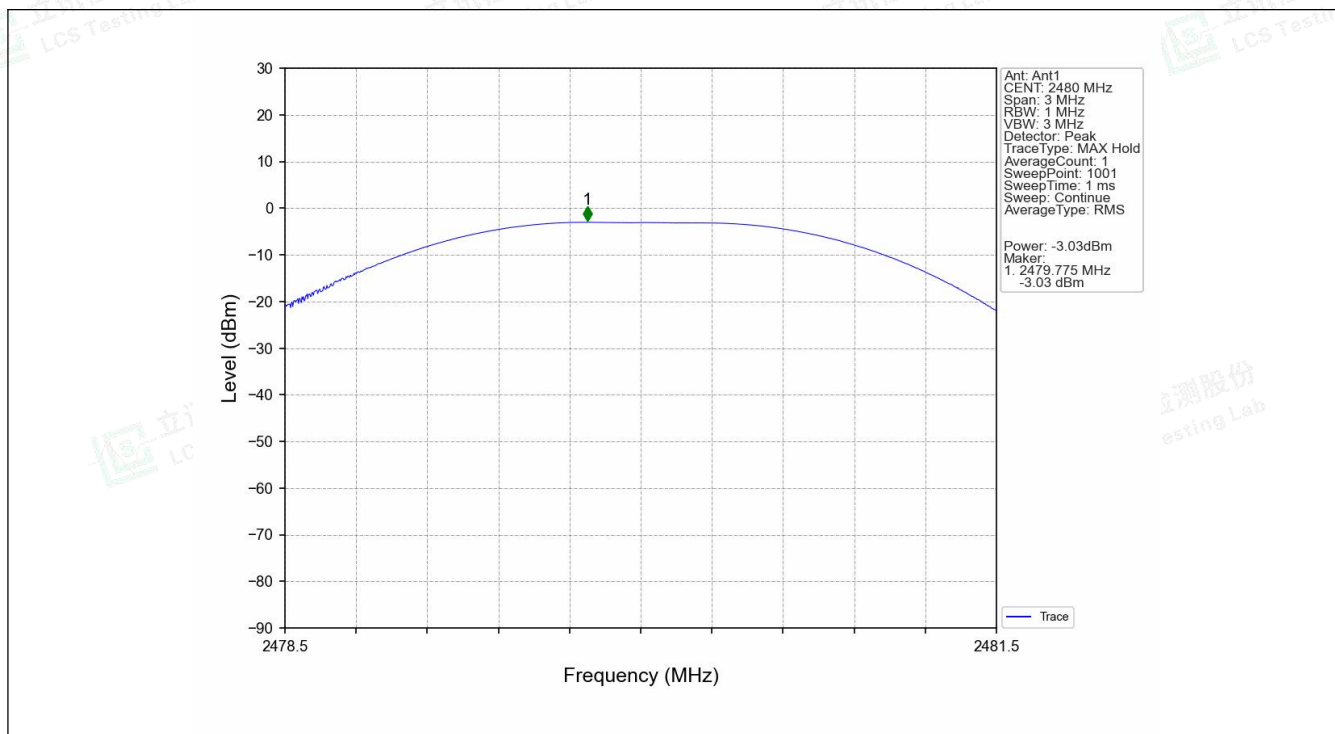


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



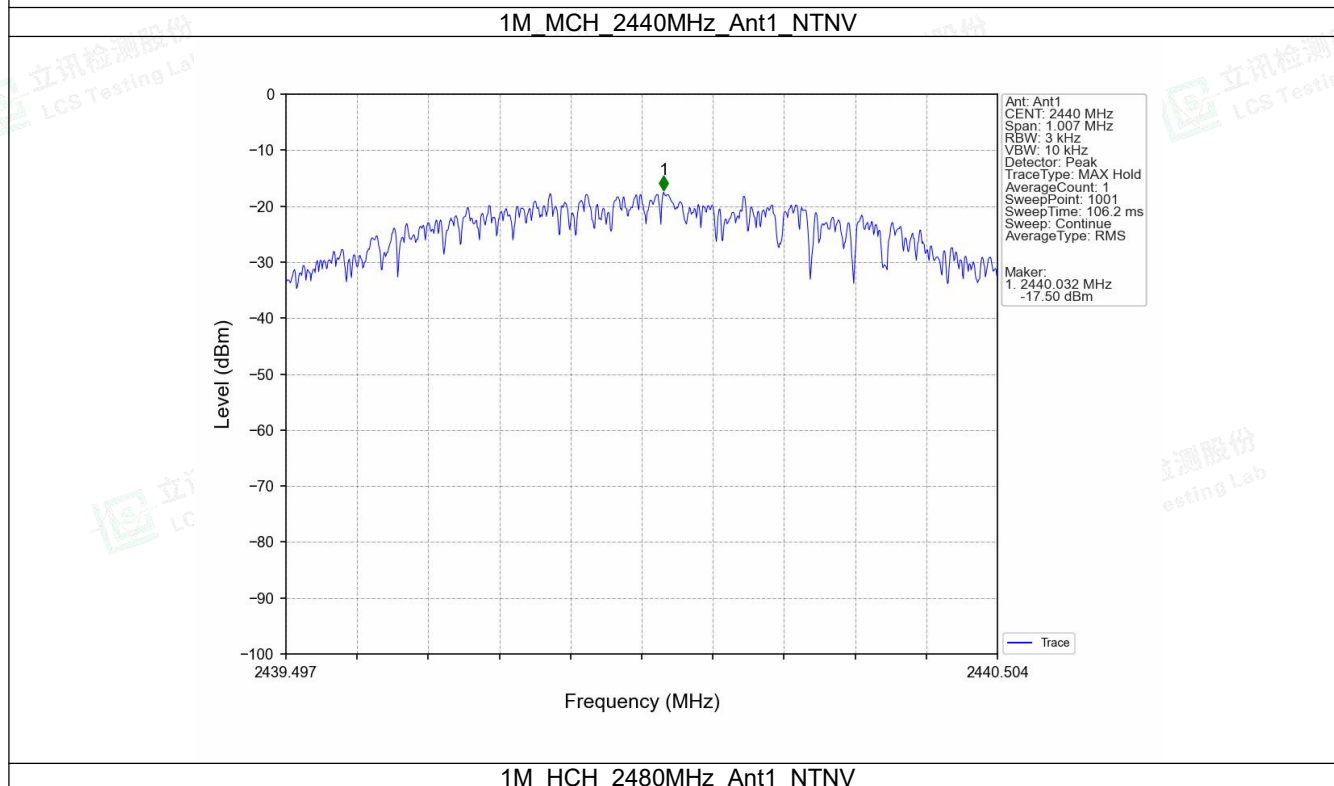
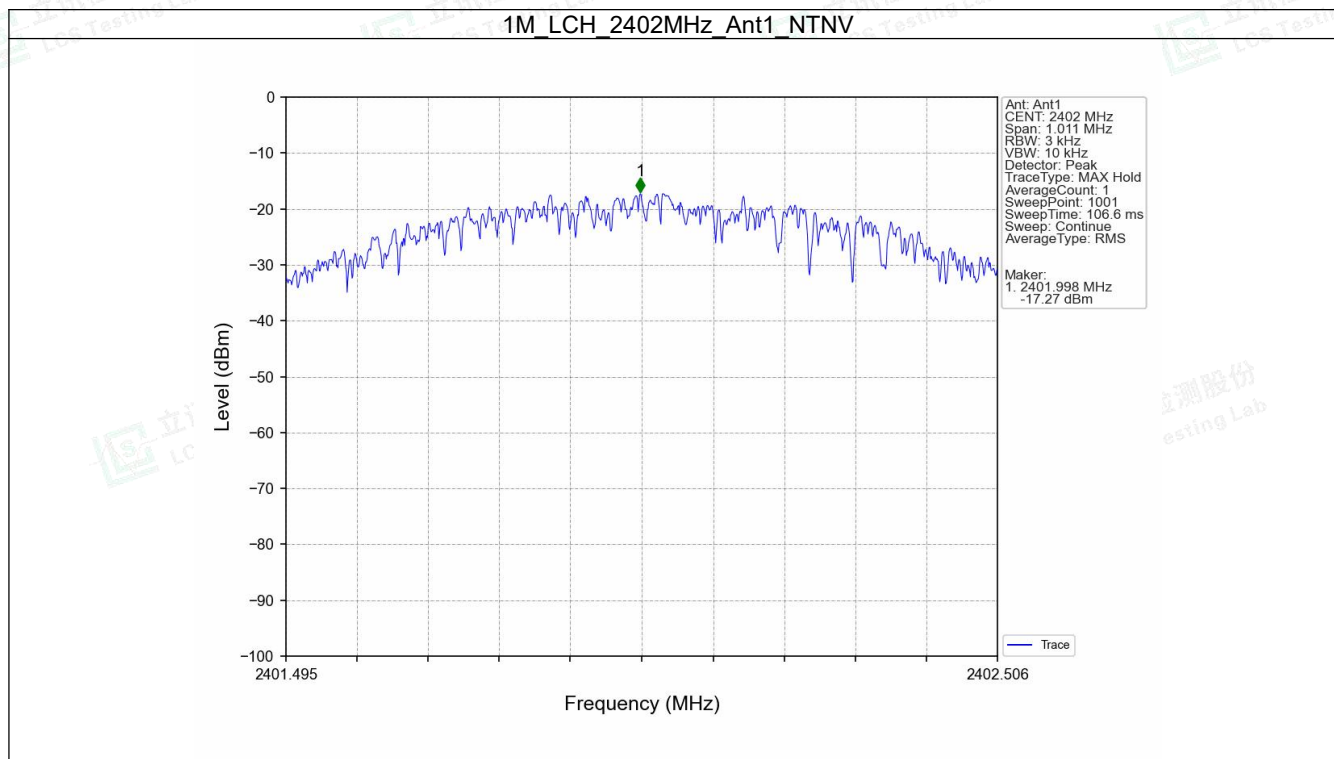




A.3 Maximum Power Spectral Density Level

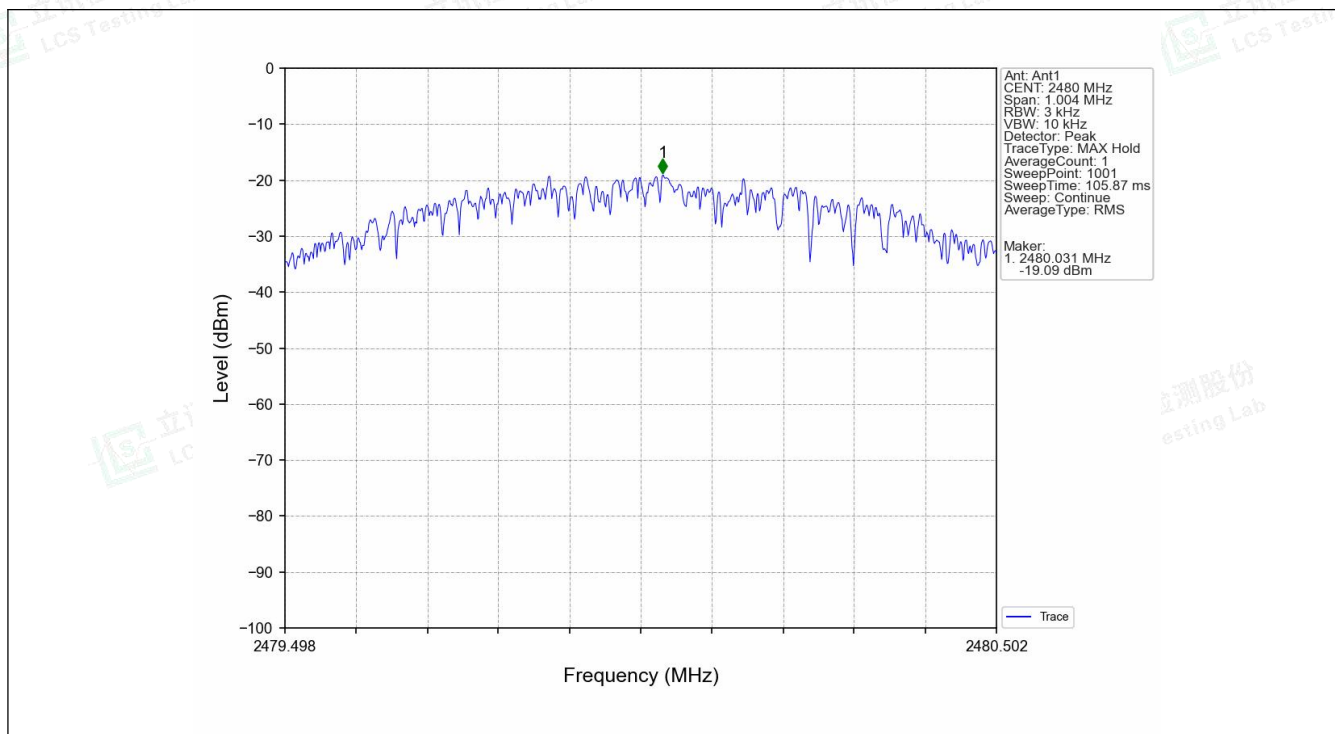
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.27	<=8	Pass
		2440	-17.50	<=8	Pass
		2480	-19.09	<=8	Pass





1M_HCH_2480MHz_Ant1_NTNV







A.4 Band Edge

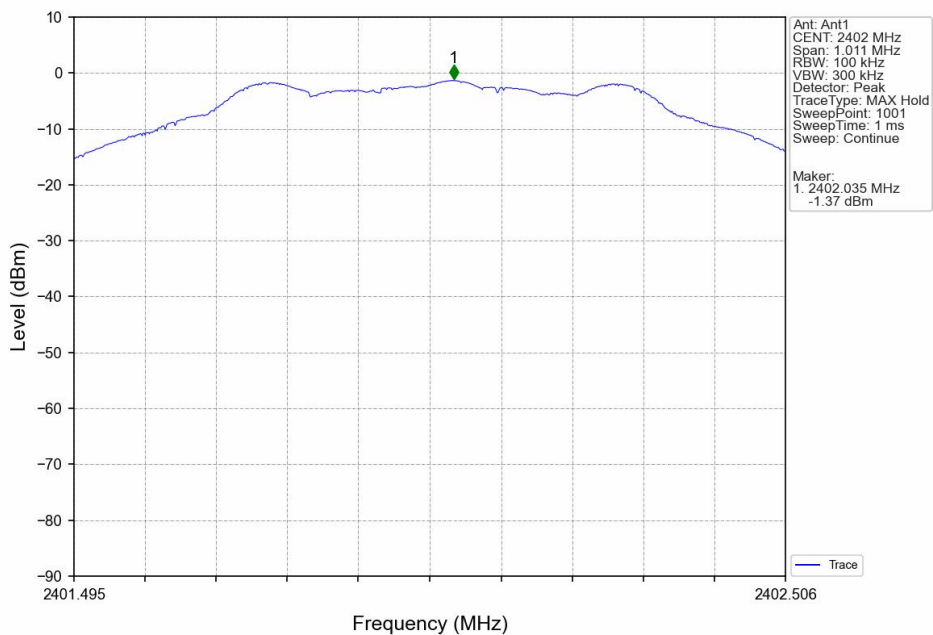
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.37	-21.37	Pass
		2440	1	-1.37	-21.37	Pass
		2480	1	-1.37	-21.37	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						



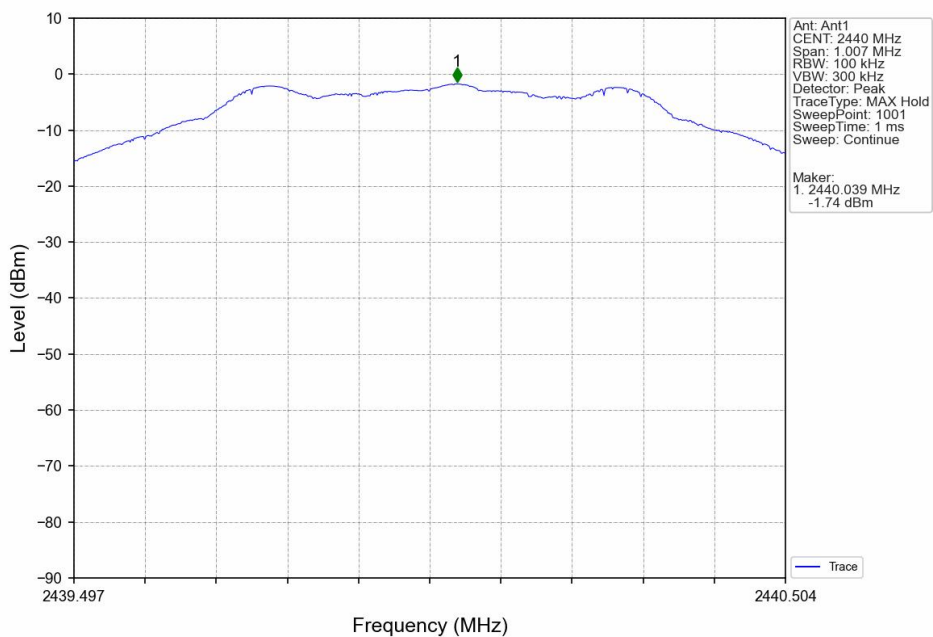
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1M_LCH_2402MHz_Ant1_NTNV

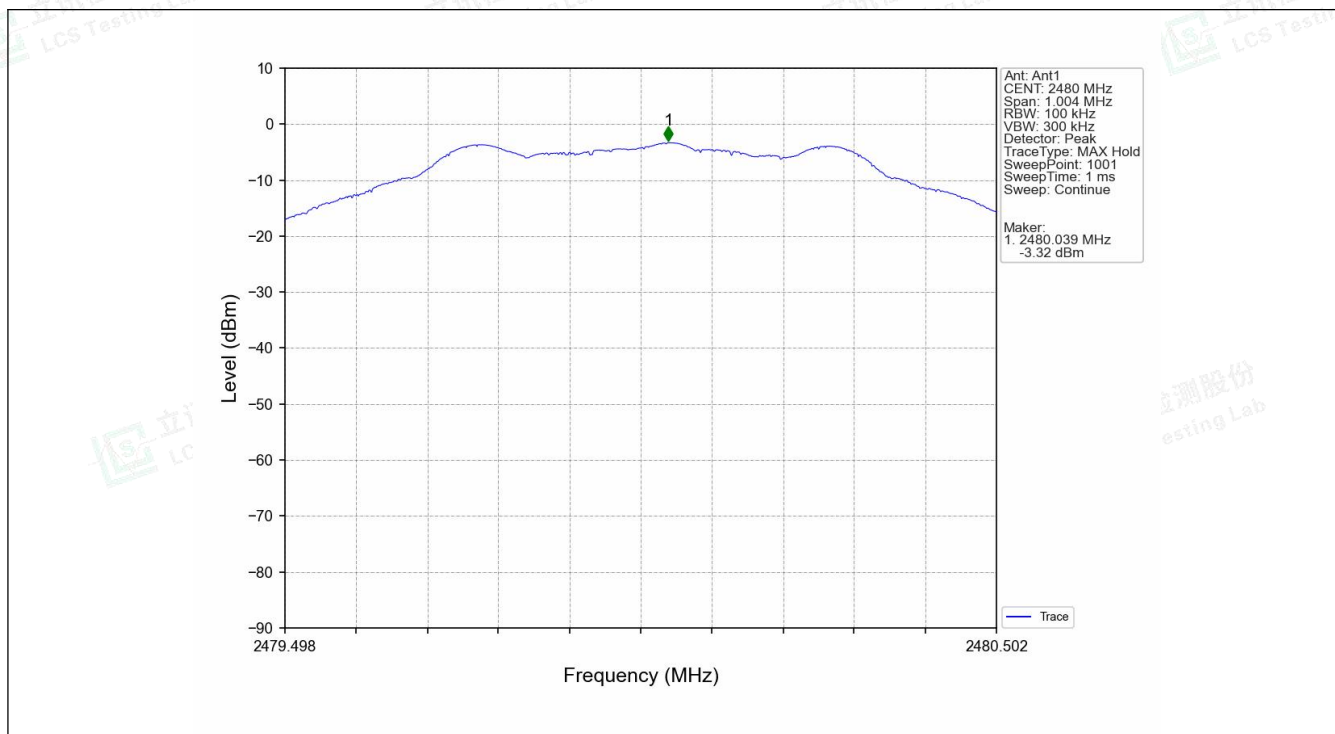


1M_MCH_2440MHz_Ant1_NTNV



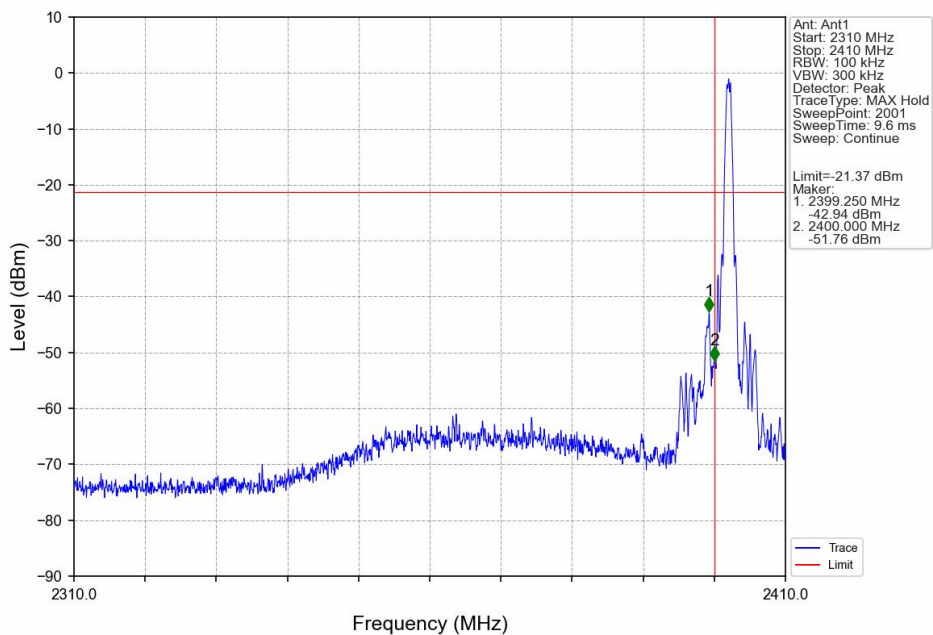
1M_HCH_2480MHz_Ant1_NTNV



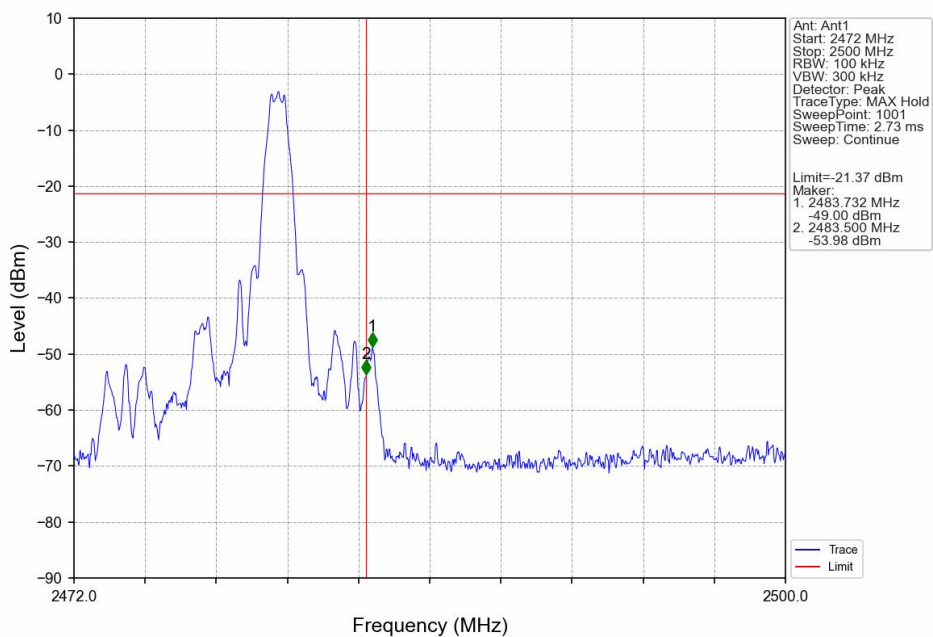




1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





A.5 Conducted RF Spurious Emission

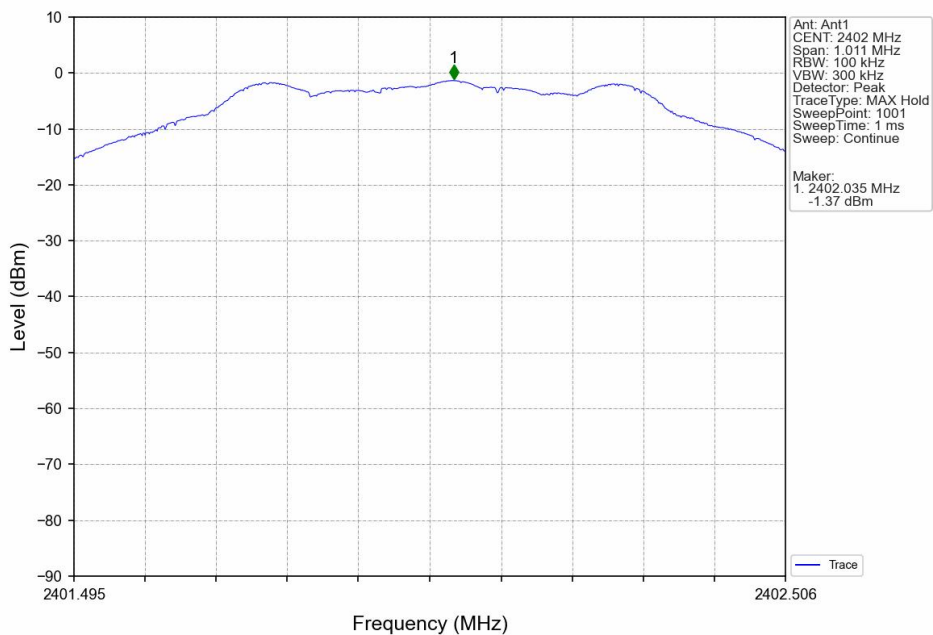
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.37
		2440	1	-1.74
		2480	1	-3.32
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				



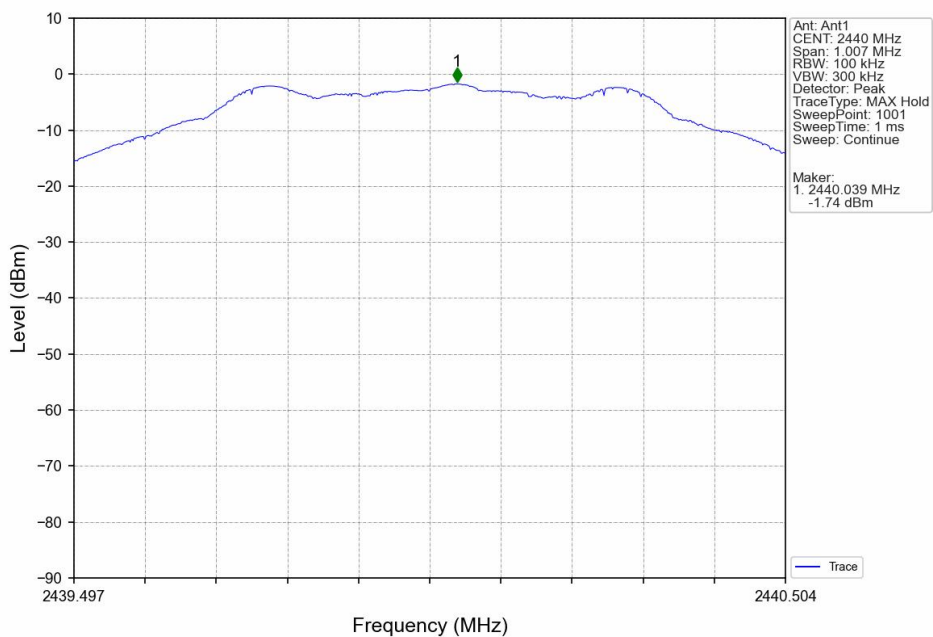
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1M_LCH_2402MHz_Ant1_NTNV

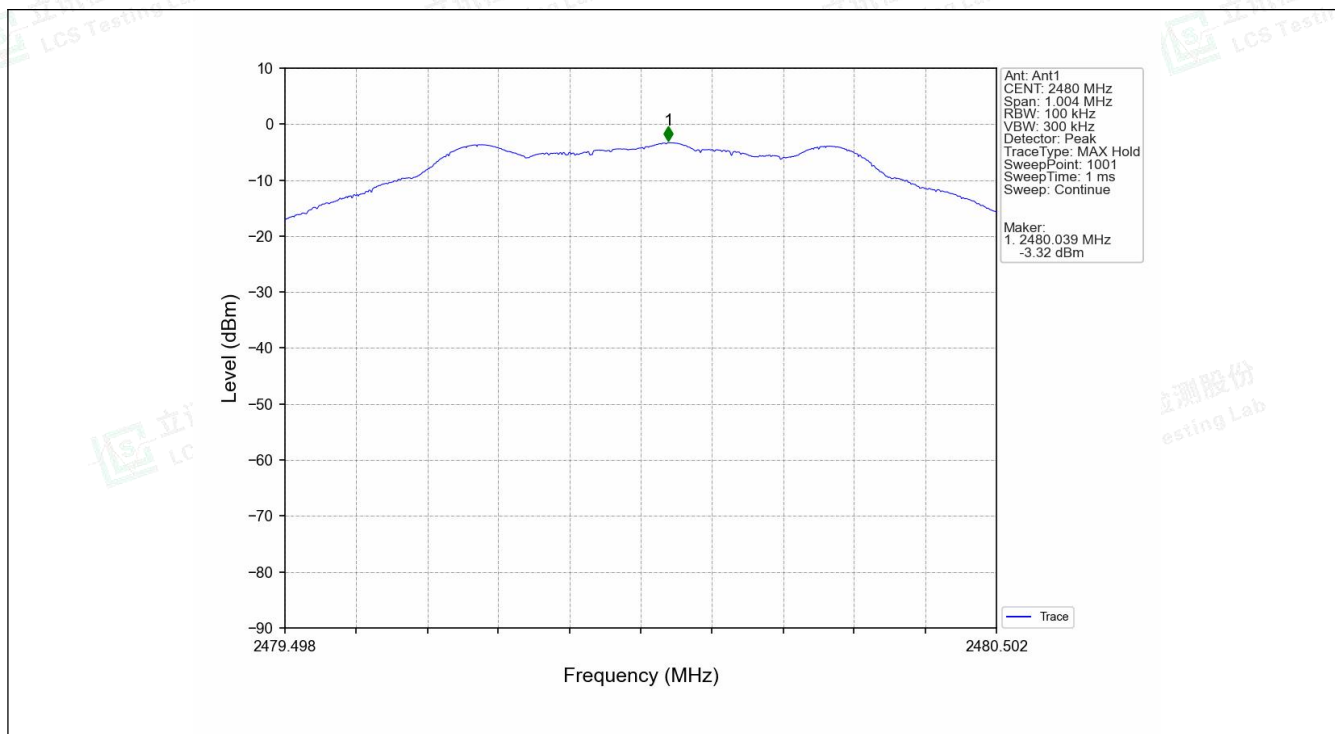


1M_MCH_2440MHz_Ant1_NTNV



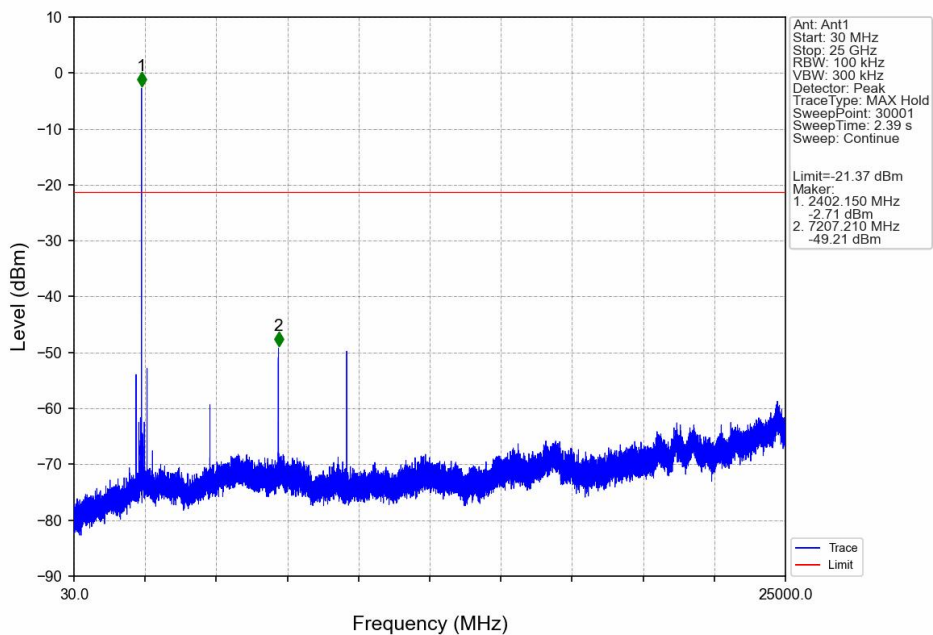
1M_HCH_2480MHz_Ant1_NTNV



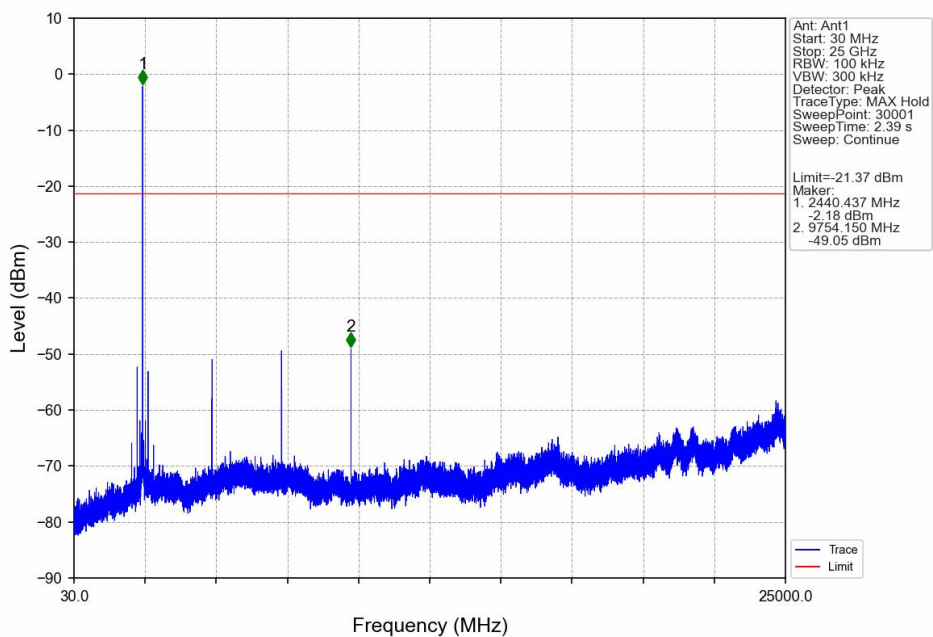




1M_LCH_2402MHz_Ant1_NTNV

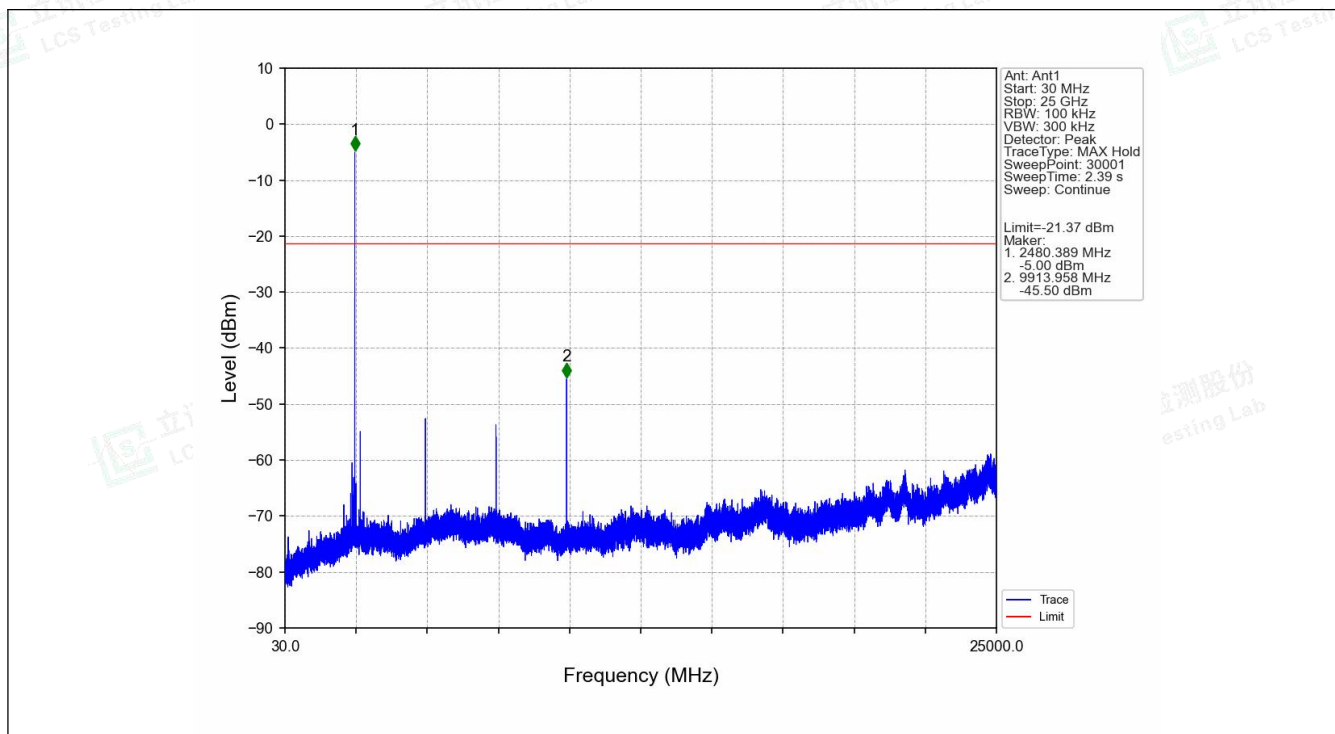


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV







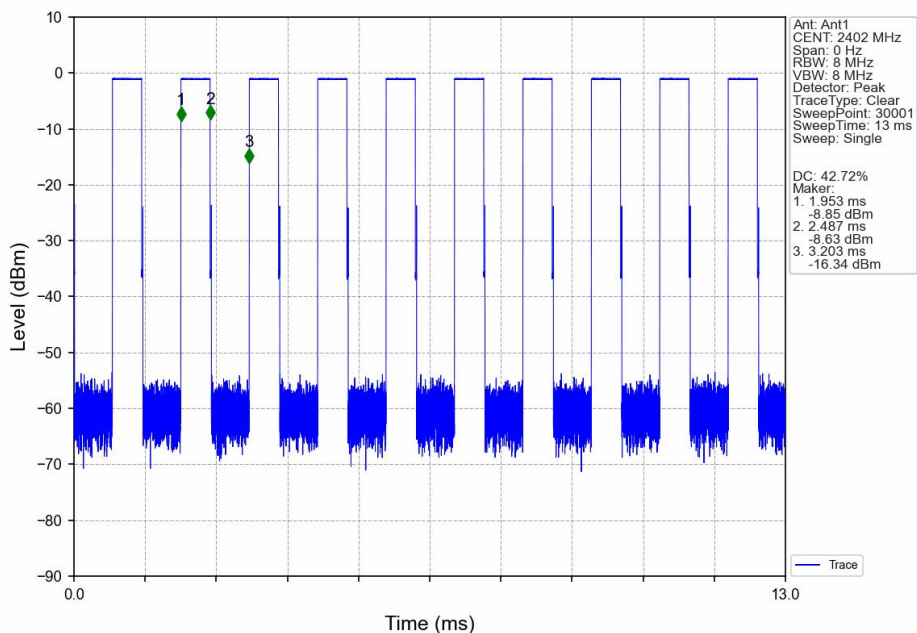
A.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.534	1.250	42.72	3.69	0.03
		2440	0.557	1.250	44.56	3.51	0.03
		2480	0.558	1.250	44.64	3.50	0.02

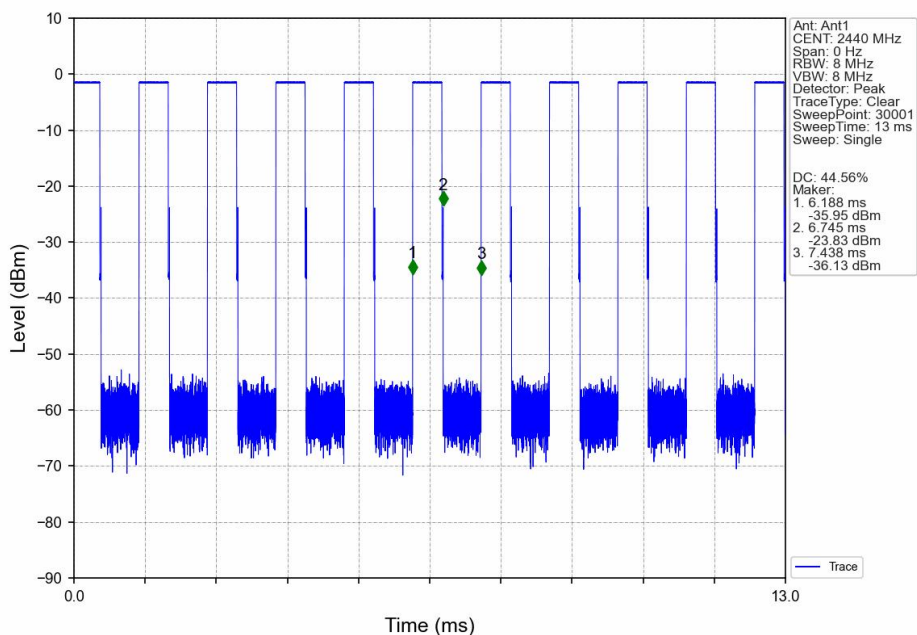




1M_LCH_2402MHz_Ant1_NTNV

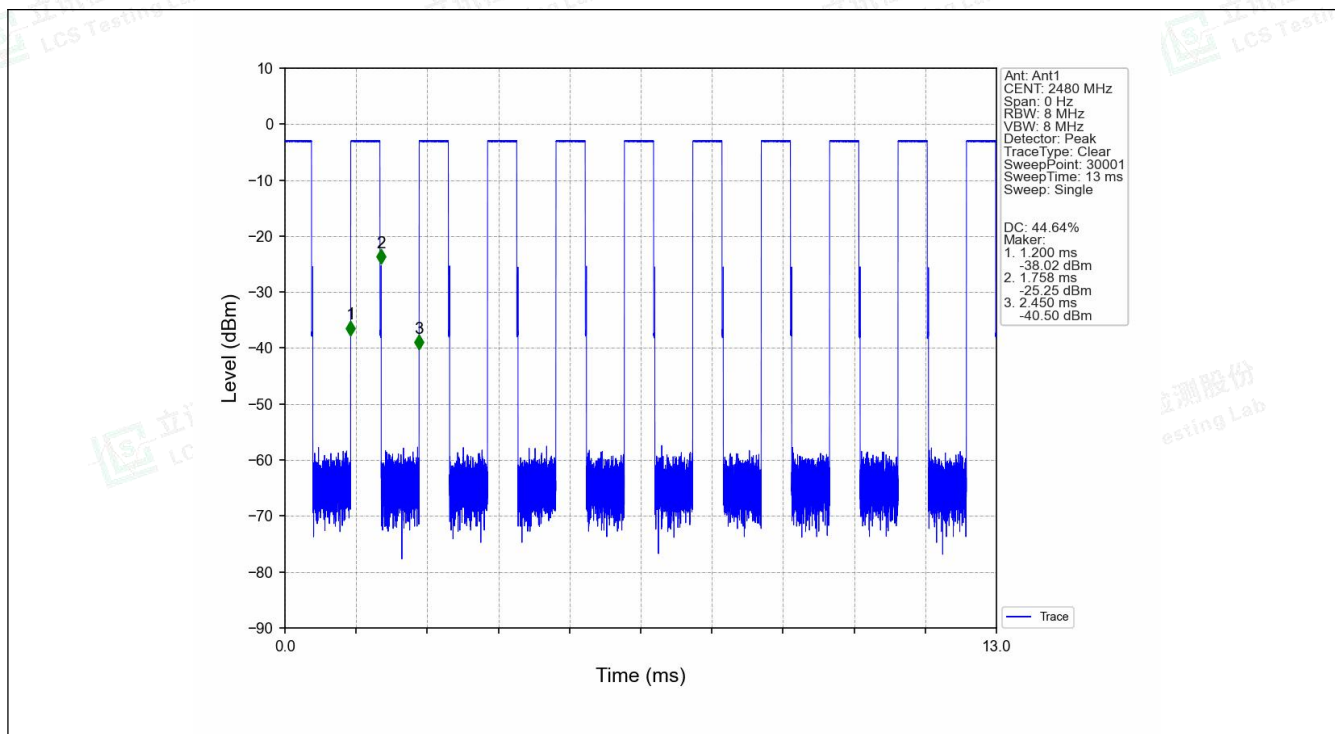


1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

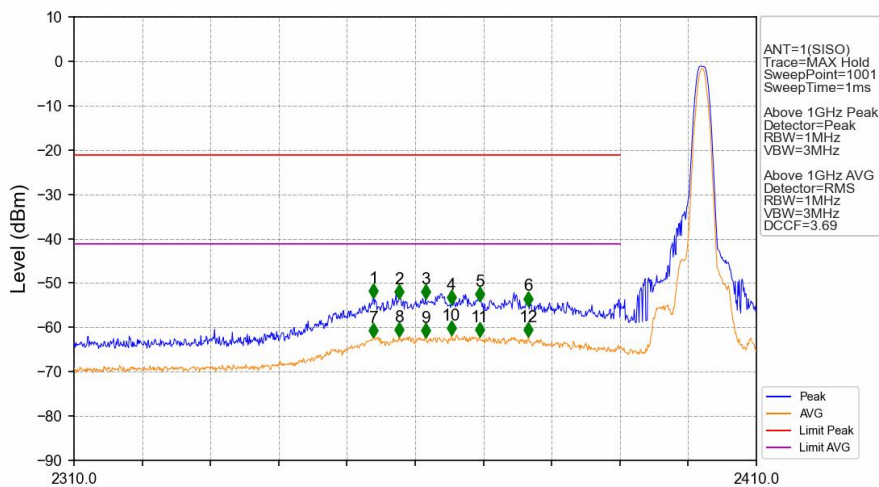






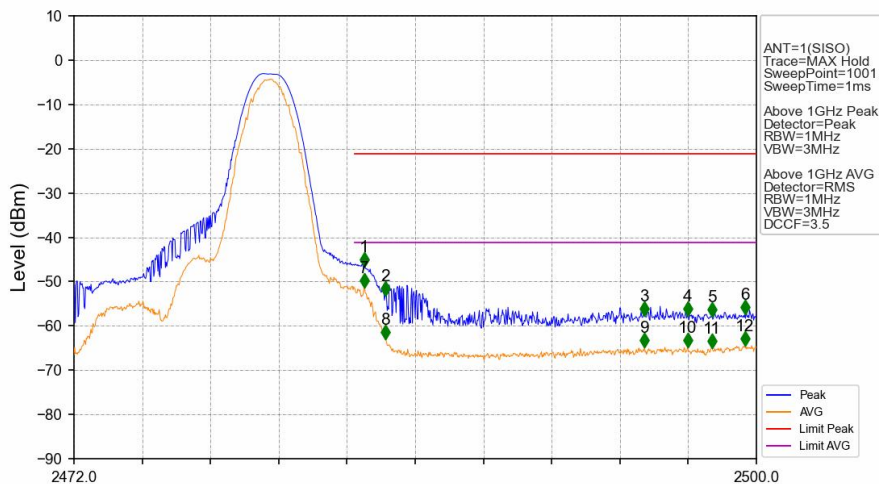
A.7 Restrict Band

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	2353.900	-53.33	-21.20	32.13	Pass	Peak	7	2353.900	-62.20	-41.20	21.00	Pass	AVG
2	2357.600	-53.47	-21.20	32.27	Pass	Peak	8	2357.600	-62.15	-41.20	20.95	Pass	AVG
3	2361.500	-53.55	-21.20	32.35	Pass	Peak	9	2361.500	-62.20	-41.20	21.00	Pass	AVG
4	2365.300	-54.78	-21.20	33.58	Pass	Peak	10	2365.300	-61.66	-41.20	20.46	Pass	AVG
5	2369.400	-54.11	-21.20	32.91	Pass	Peak	11	2369.400	-62.13	-41.20	20.93	Pass	AVG
6	2376.600	-55.06	-21.20	33.86	Pass	Peak	12	2376.600	-62.09	-41.20	20.89	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	2483.900	-46.67	-21.20	25.47	Pass	Peak	7	2483.900	-51.34	-41.20	10.14	Pass	AVG
2	2484.768	-53.13	-21.20	31.93	Pass	Peak	8	2484.768	-63.01	-41.20	21.81	Pass	AVG
3	2495.408	-57.69	-21.20	36.49	Pass	Peak	9	2495.408	-64.84	-41.20	23.64	Pass	AVG
4	2497.172	-57.76	-21.20	36.56	Pass	Peak	10	2497.172	-64.79	-41.20	23.59	Pass	AVG
5	2498.180	-57.92	-21.20	36.72	Pass	Peak	11	2498.180	-64.93	-41.20	23.73	Pass	AVG
6	2499.524	-57.36	-21.20	36.16	Pass	Peak	12	2499.524	-64.48	-41.20	23.28	Pass	AVG

