



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Desktop speaker

Test Model: XLT999

Environmental Conditions

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





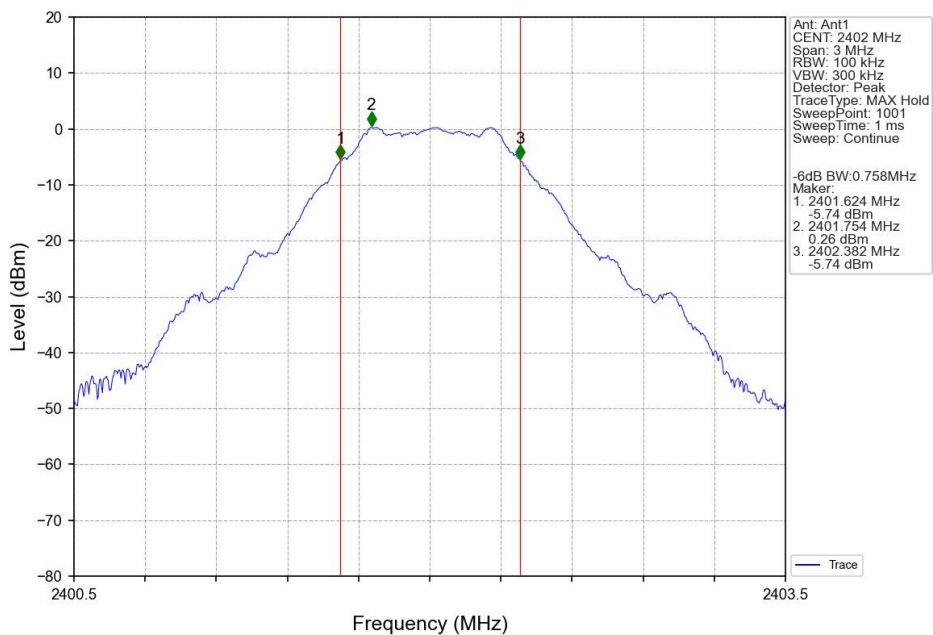
B.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.758	≥ 0.5	Pass
		2440	1	0.763	≥ 0.5	Pass
		2480	1	0.764	≥ 0.5	Pass
2M	SISO	2402	1	1.184	≥ 0.5	Pass
		2440	1	1.177	≥ 0.5	Pass
		2480	1	1.170	≥ 0.5	Pass

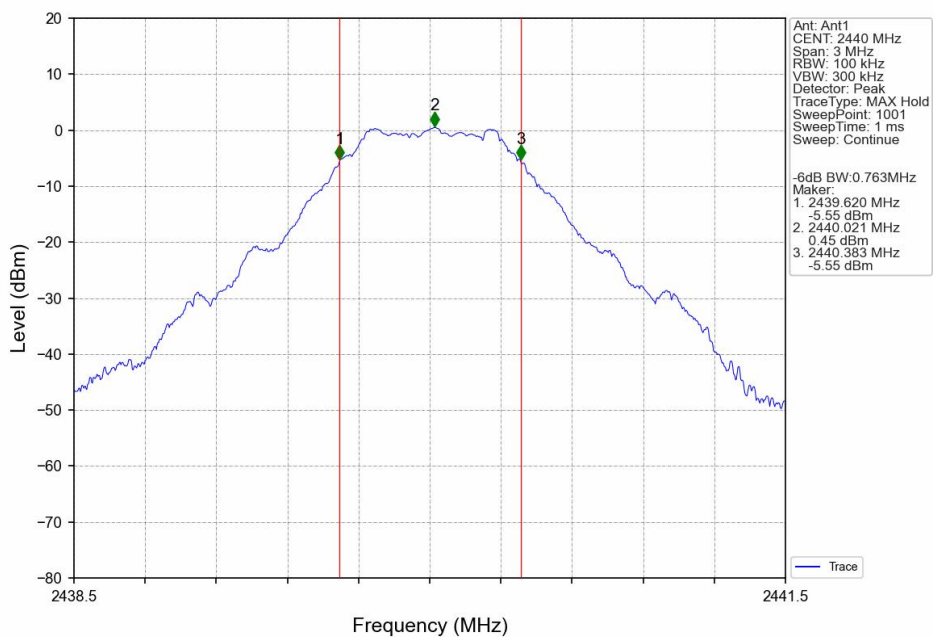




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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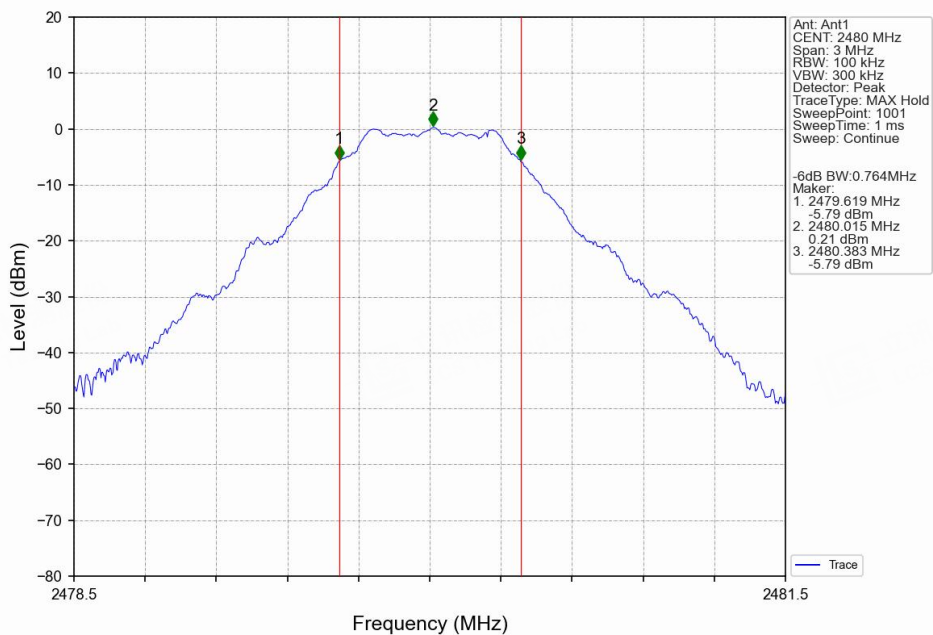
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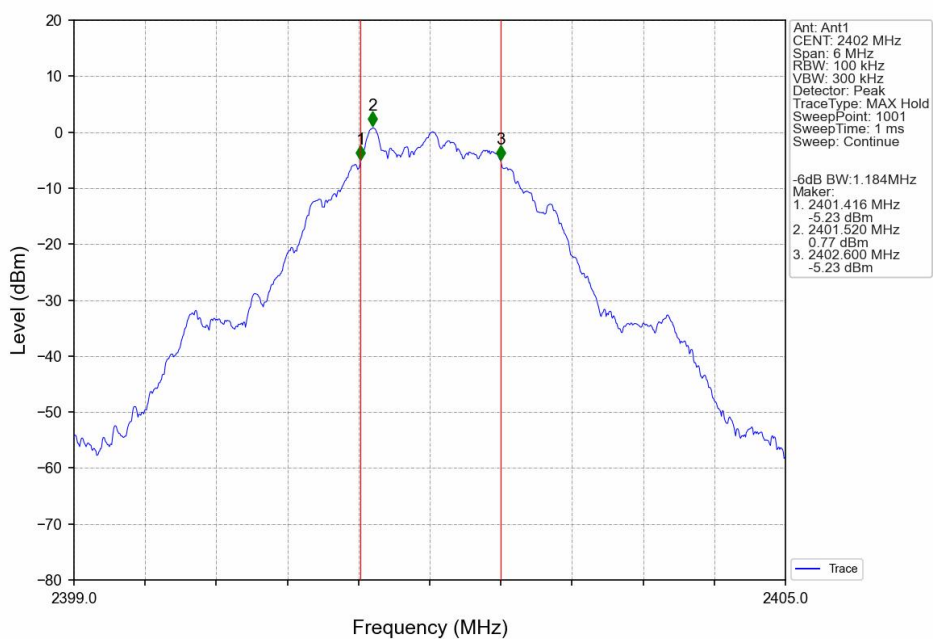
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1M_HCH_2480MHz_Ant1_NTNV

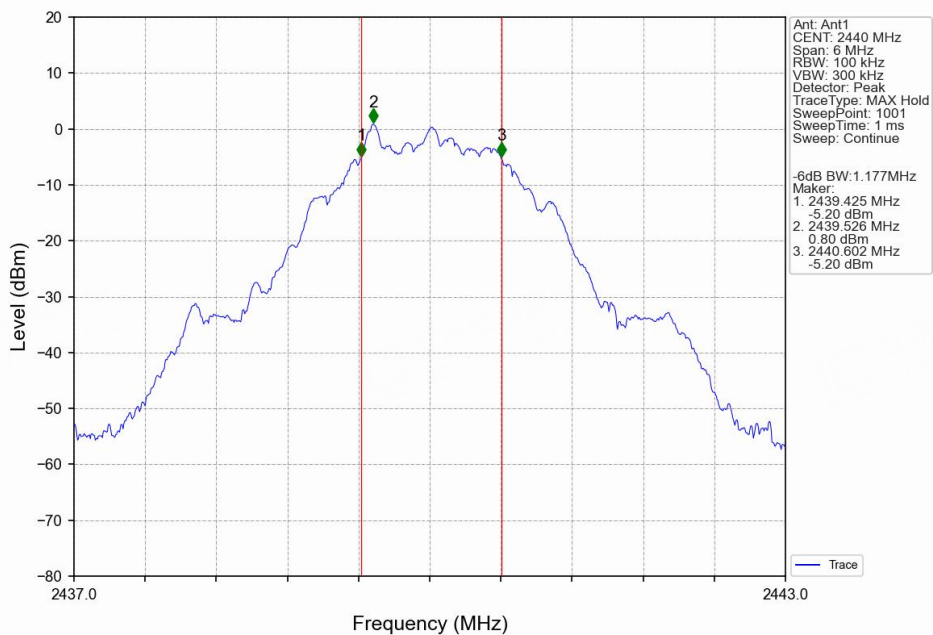


2M_LCH_2402MHz_Ant1_NTNV

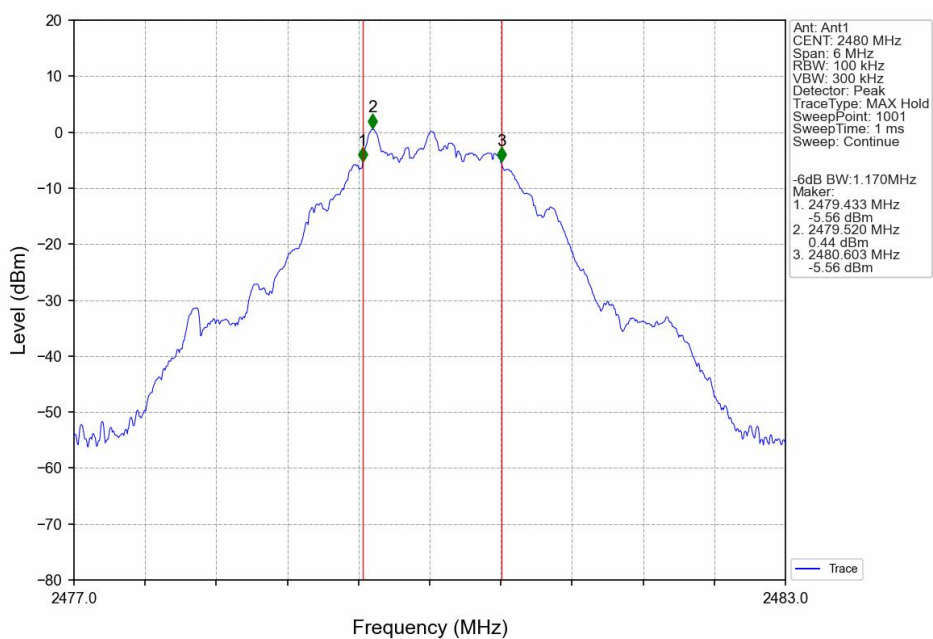




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





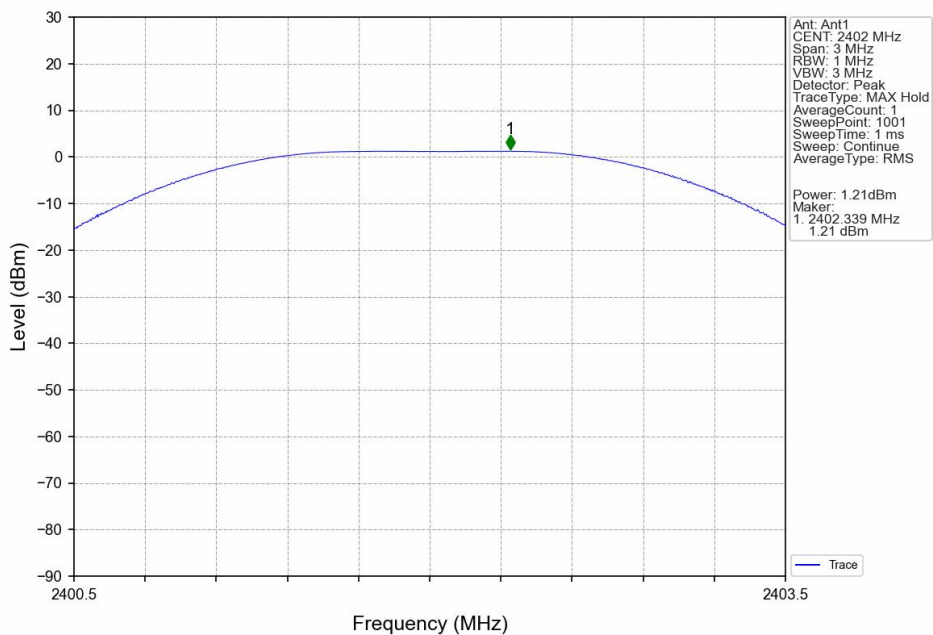
B.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.21	<=30	Pass
		2440	1.22	<=30	Pass
		2480	0.89	<=30	Pass
2M	SISO	2402	1.21	<=30	Pass
		2440	1.23	<=30	Pass
		2480	0.92	<=30	Pass

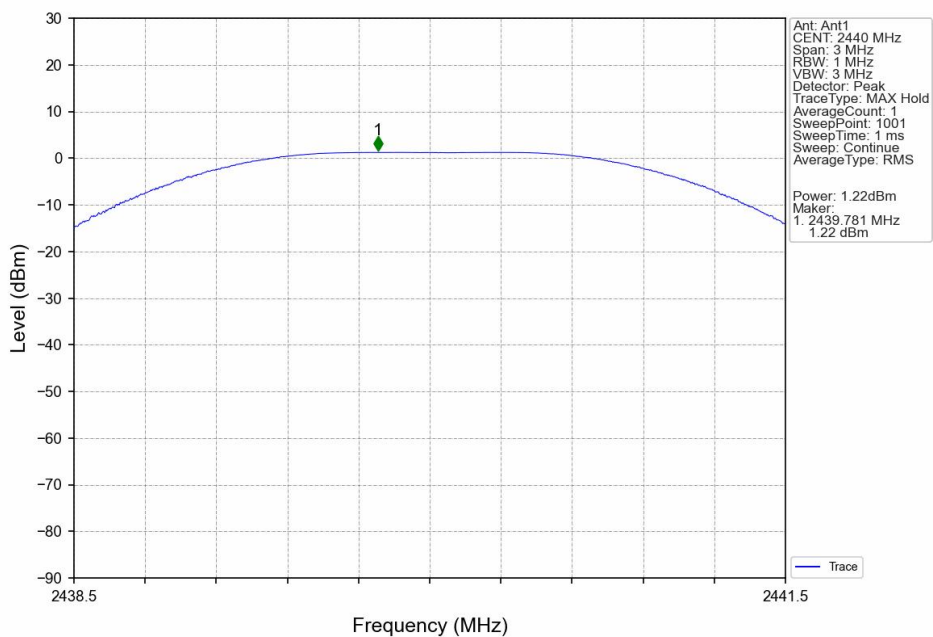




1M_LCH_2402MHz_Ant1_NTNV

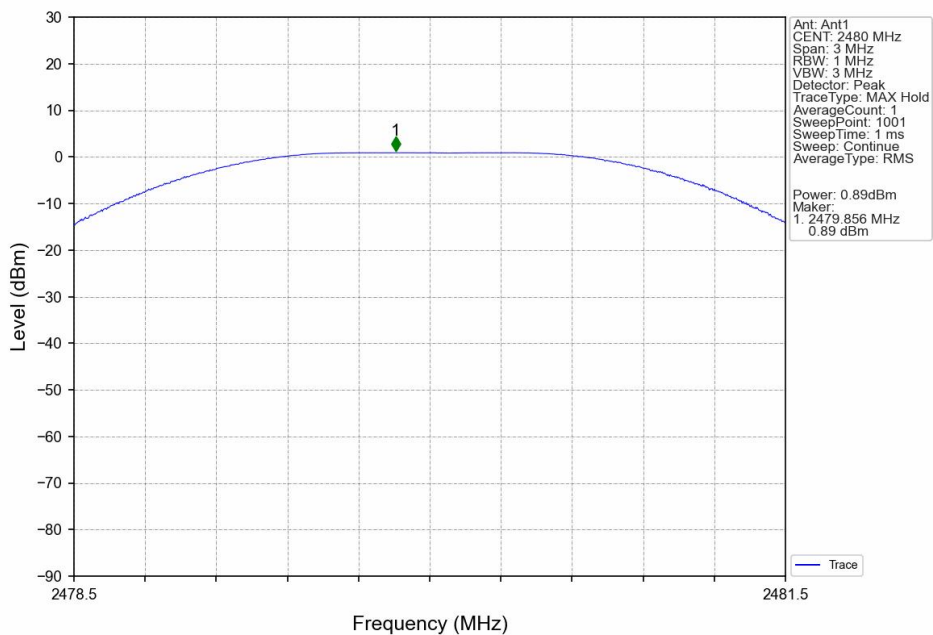


1M_MCH_2440MHz_Ant1_NTNV

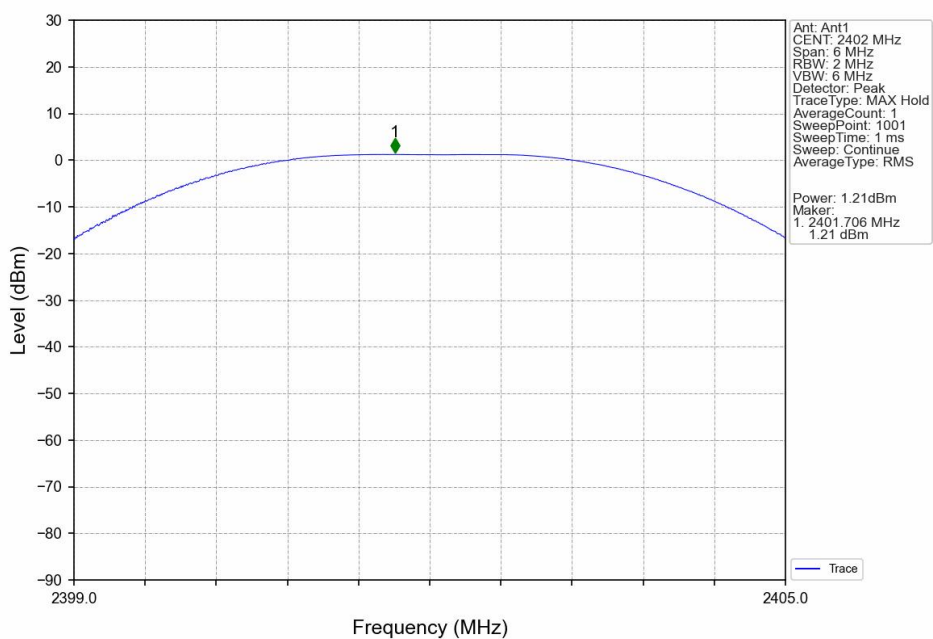




1M_HCH_2480MHz_Ant1_NTNV

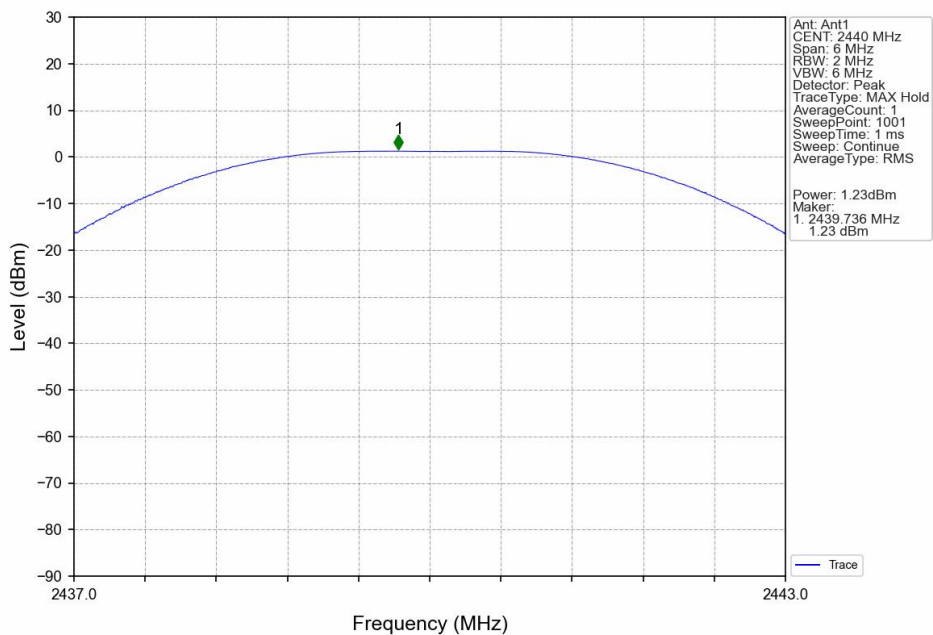


2M_LCH_2402MHz_Ant1_NTNV

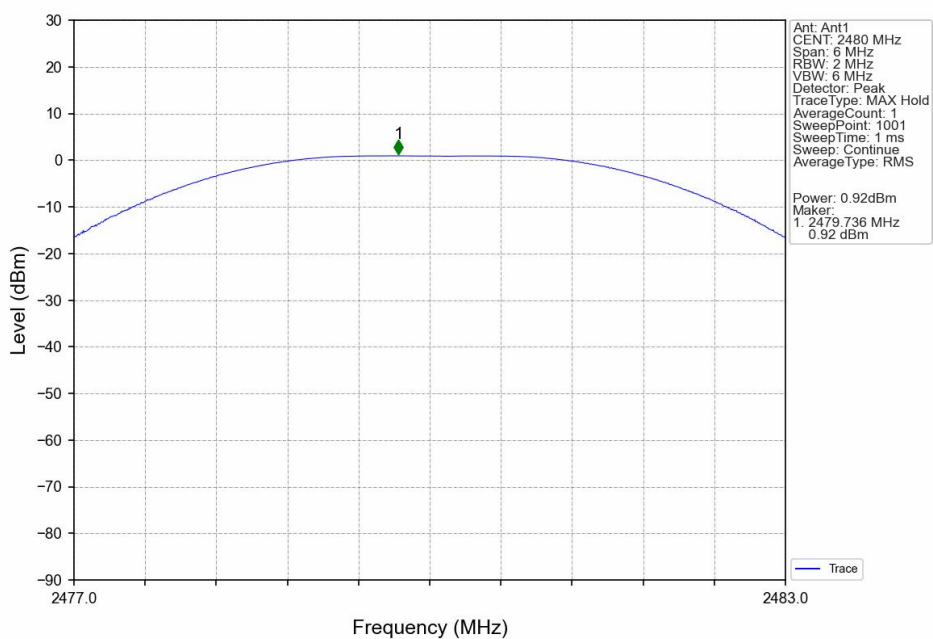




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





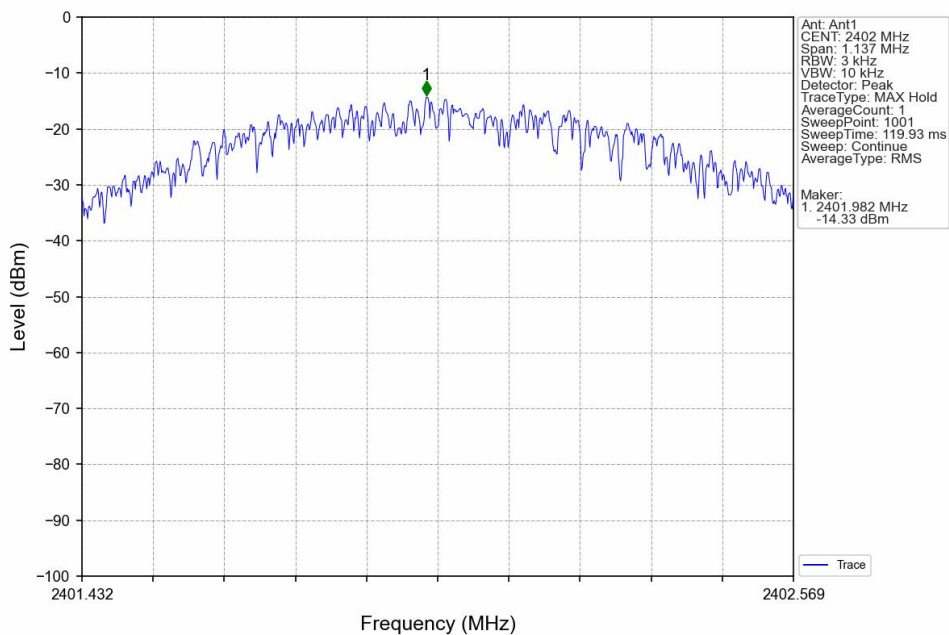
B.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.33	<=8	Pass
		2440	-14.12	<=8	Pass
		2480	-14.30	<=8	Pass
2M	SISO	2402	-17.45	<=8	Pass
		2440	-17.17	<=8	Pass
		2480	-17.21	<=8	Pass

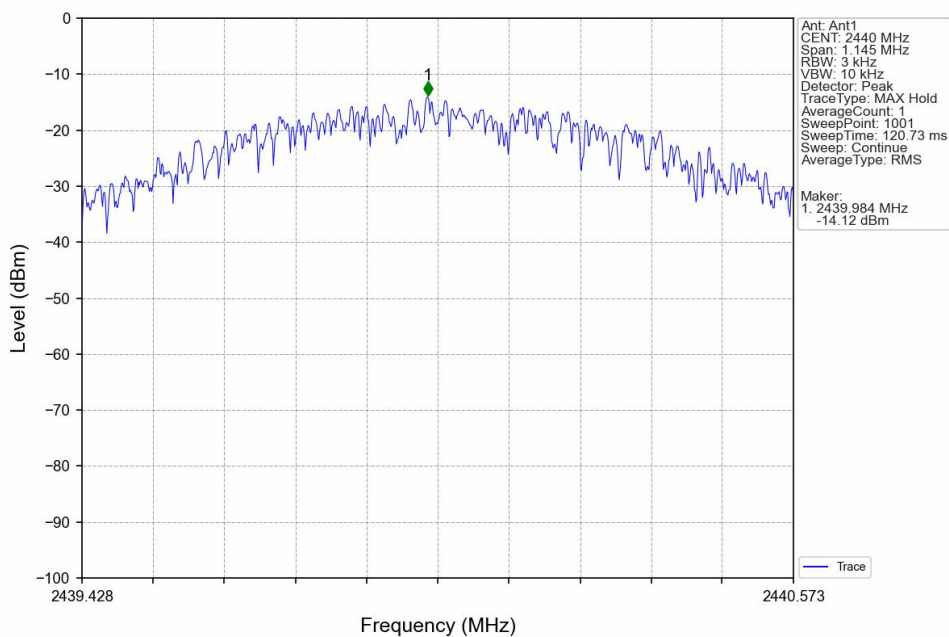




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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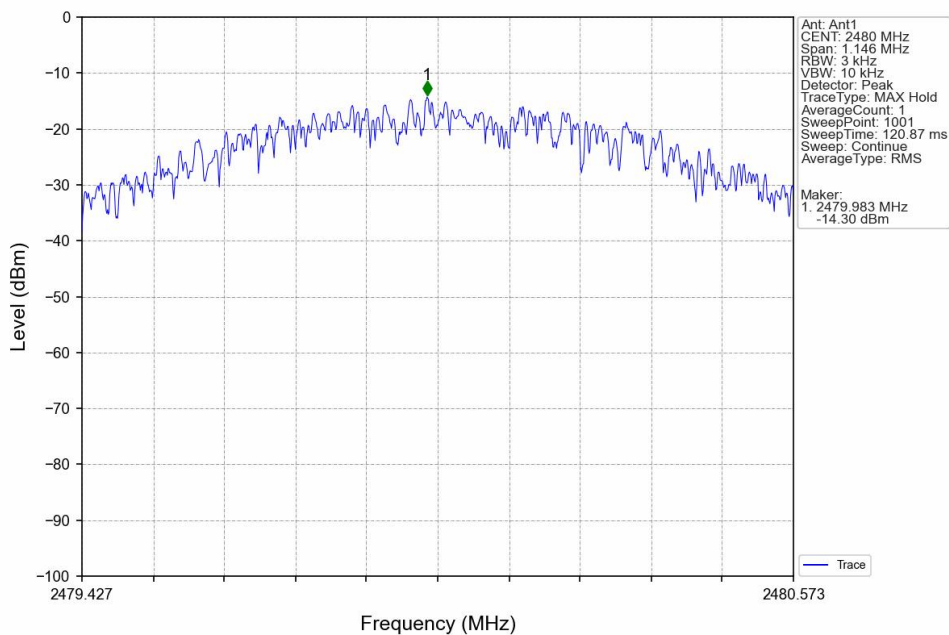
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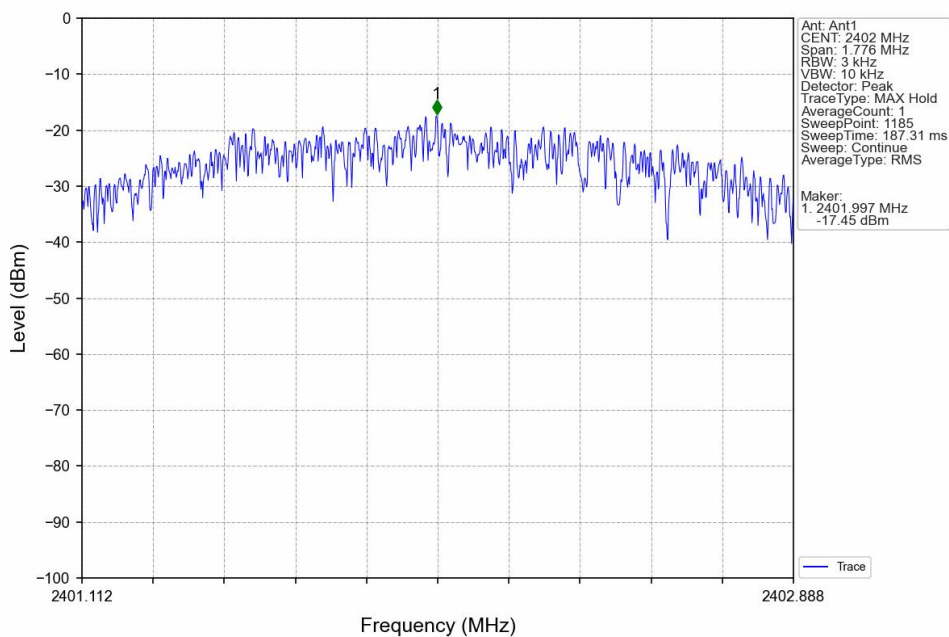
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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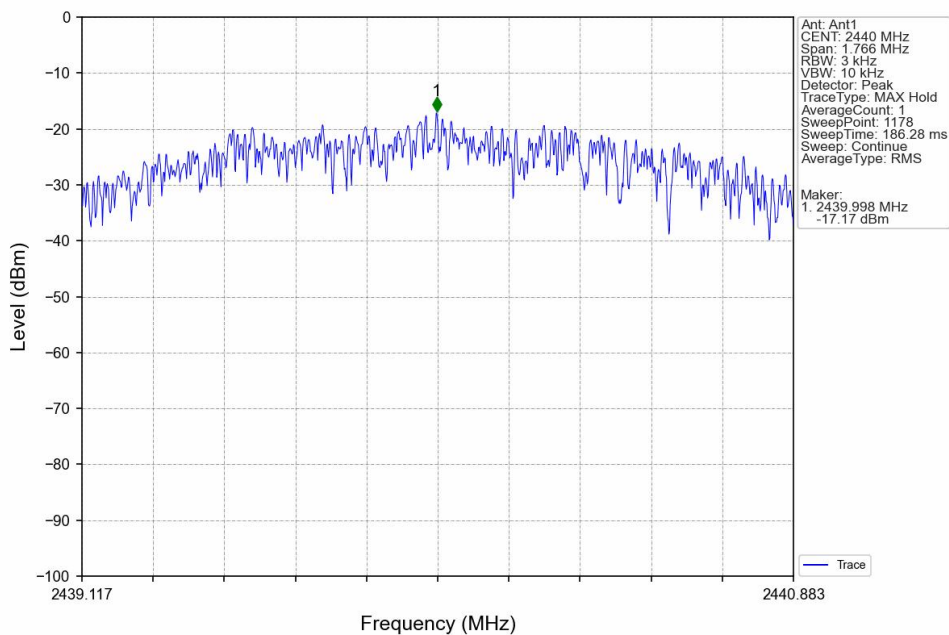
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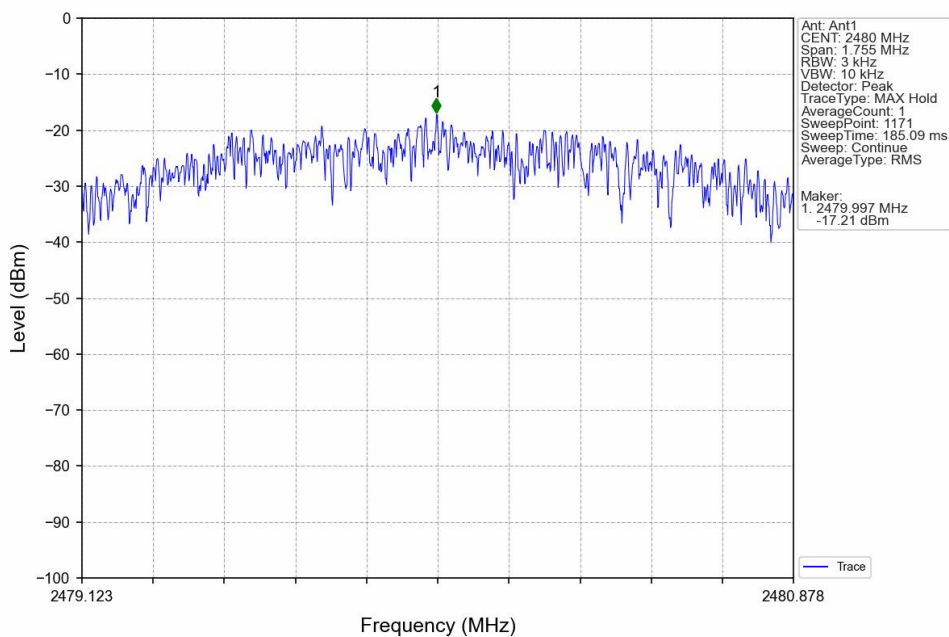
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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B.4 Band Edge

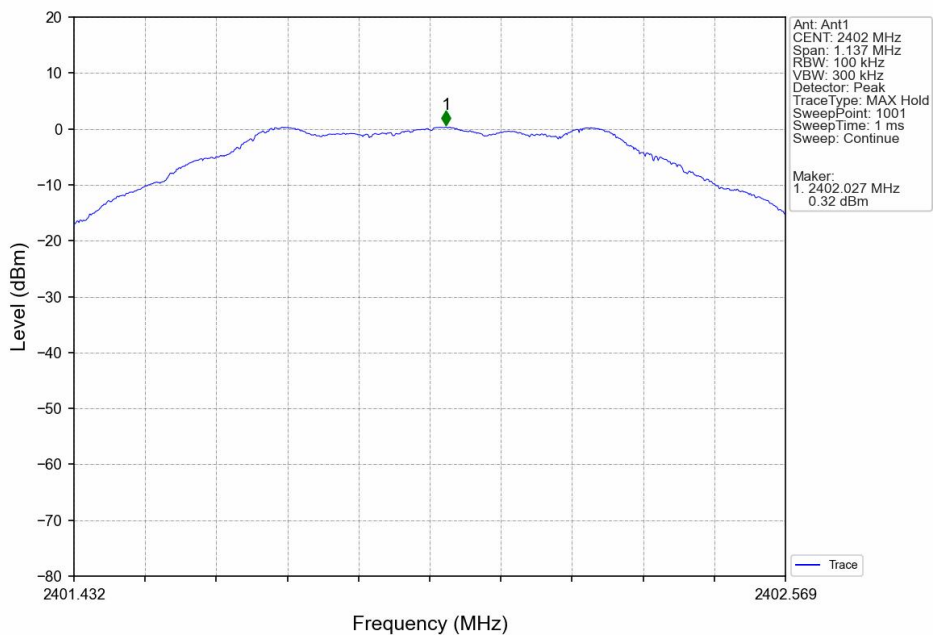
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.32	-19.68	Pass
		2440	1	0.46	-19.54	Pass
		2480	1	0.22	-19.78	Pass
2M	SISO	2402	1	0.71	-19.29	Pass
		2440	1	0.67	-19.33	Pass
		2480	1	0.40	-19.60	Pass

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.

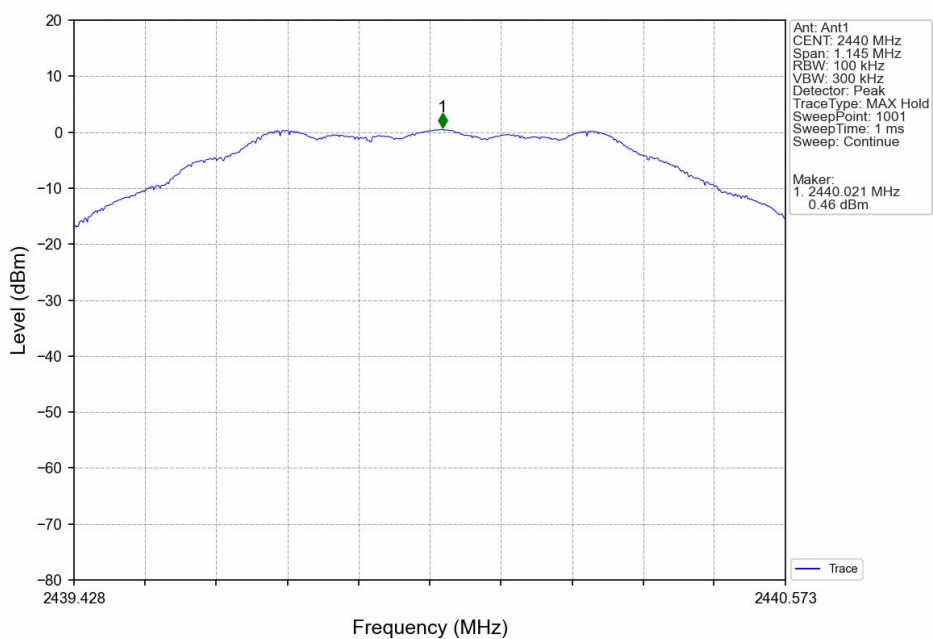




1M_LCH_2402MHz_Ant1_NTNV

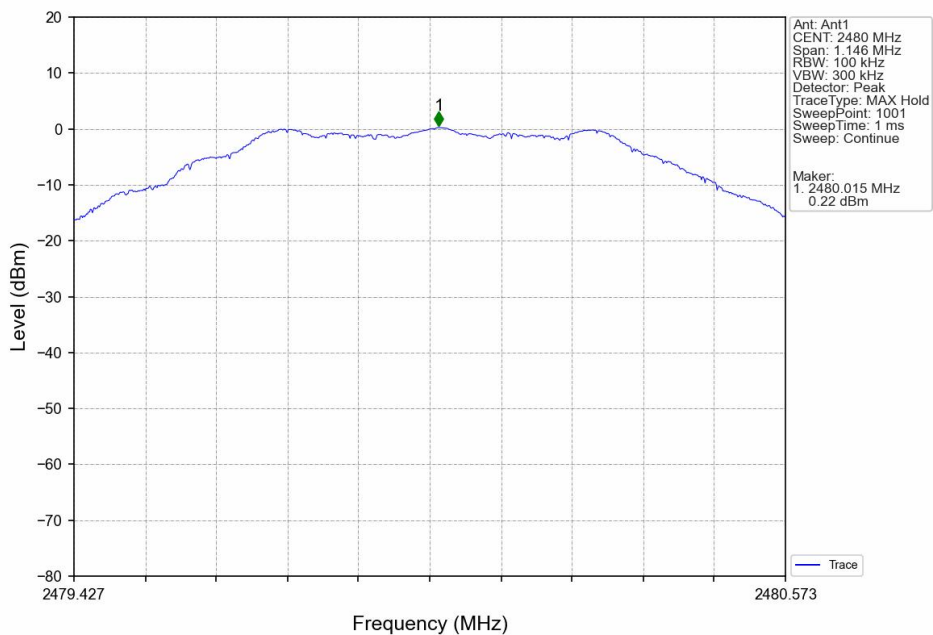


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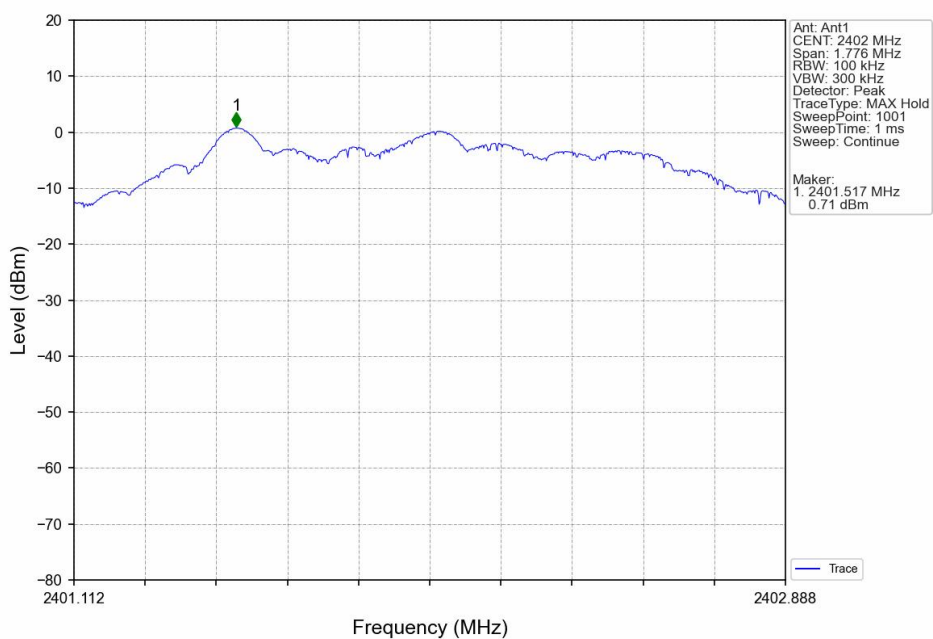




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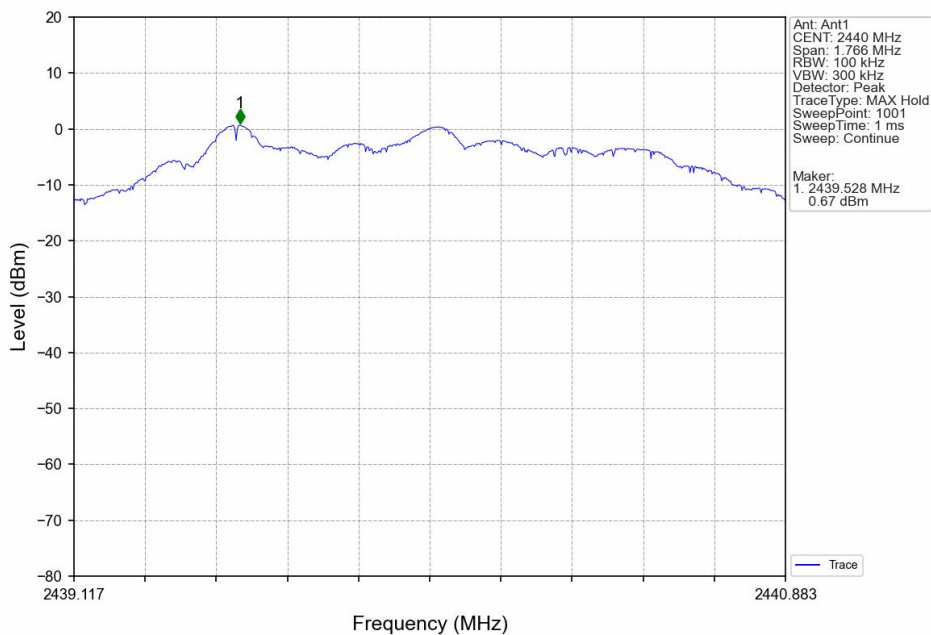


2M_LCH_2402MHz_Ant1_NTNV

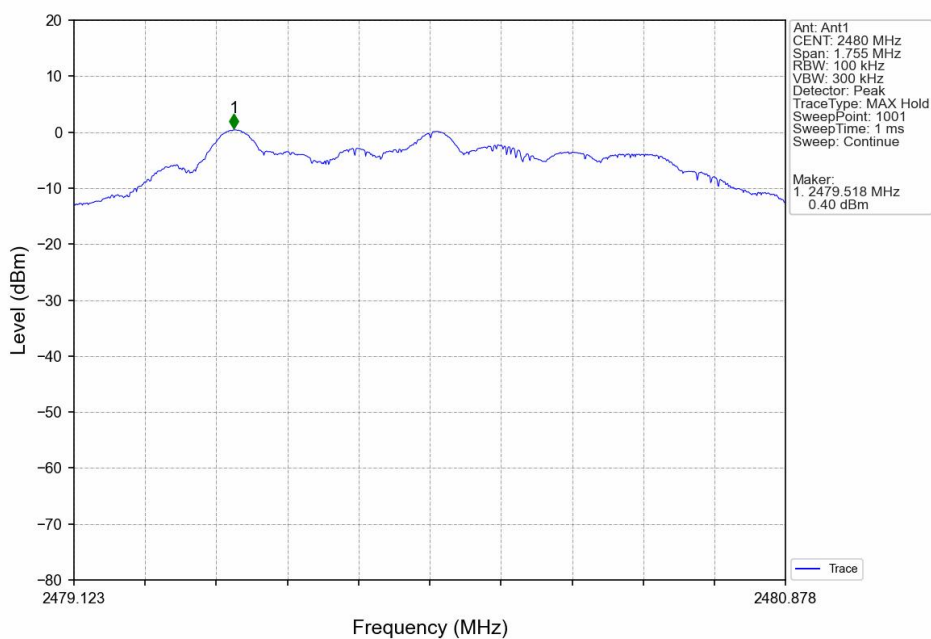




2M_MCH_2440MHz_Ant1_NTNV

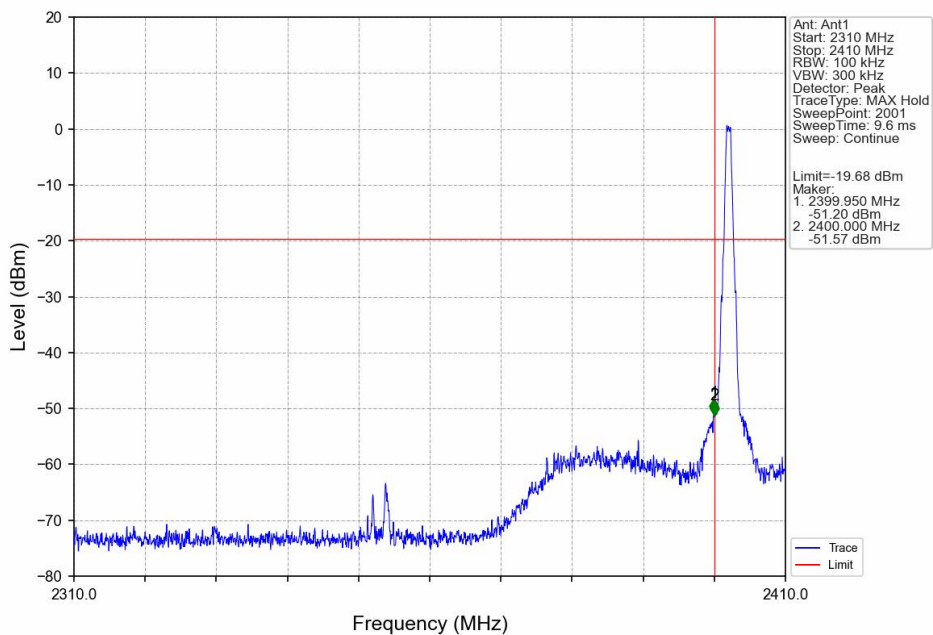


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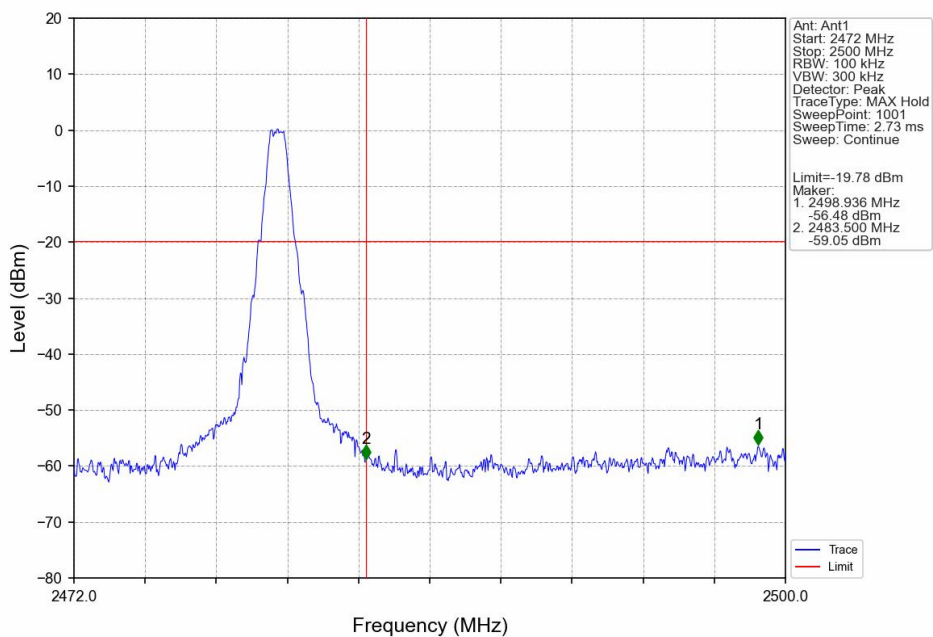




1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV

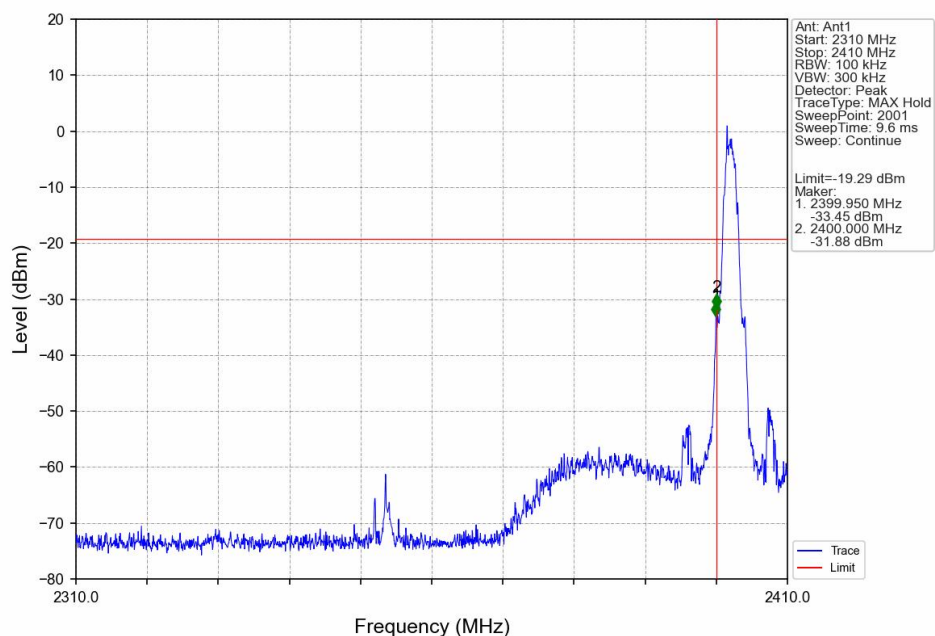


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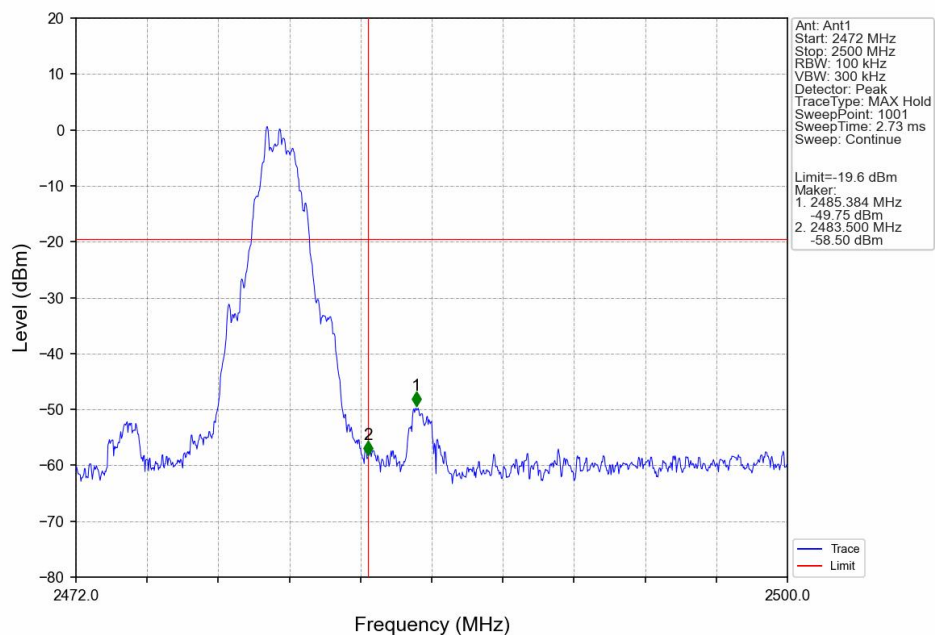
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2M_HCH_2480MHz_Ant1_NTNV



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A.5 Conducted RF Spurious Emission

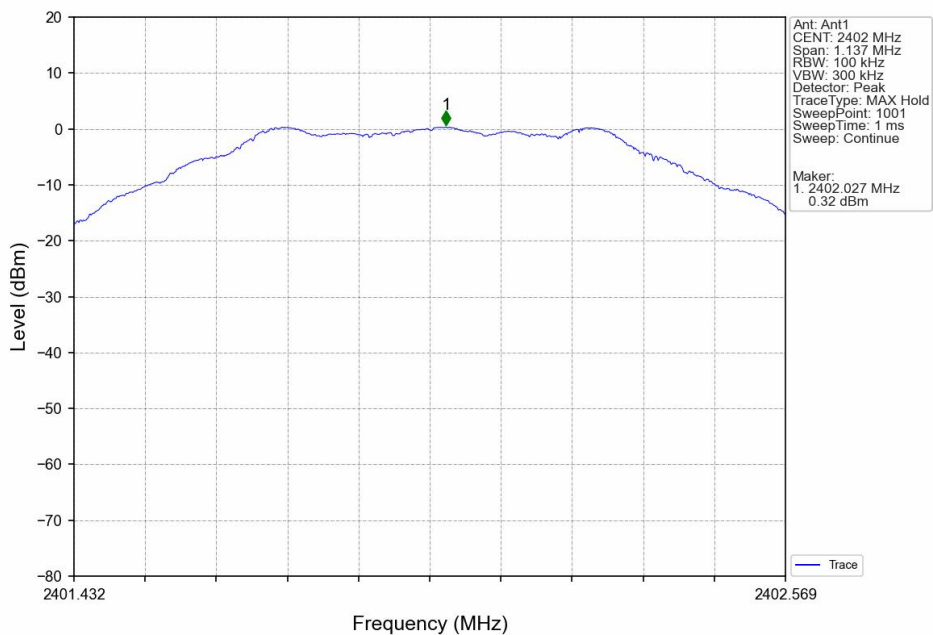
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.32
		2440	1	0.46
		2480	1	0.22
2M	SISO	2402	1	0.71
		2440	1	0.67
		2480	1	0.40

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.

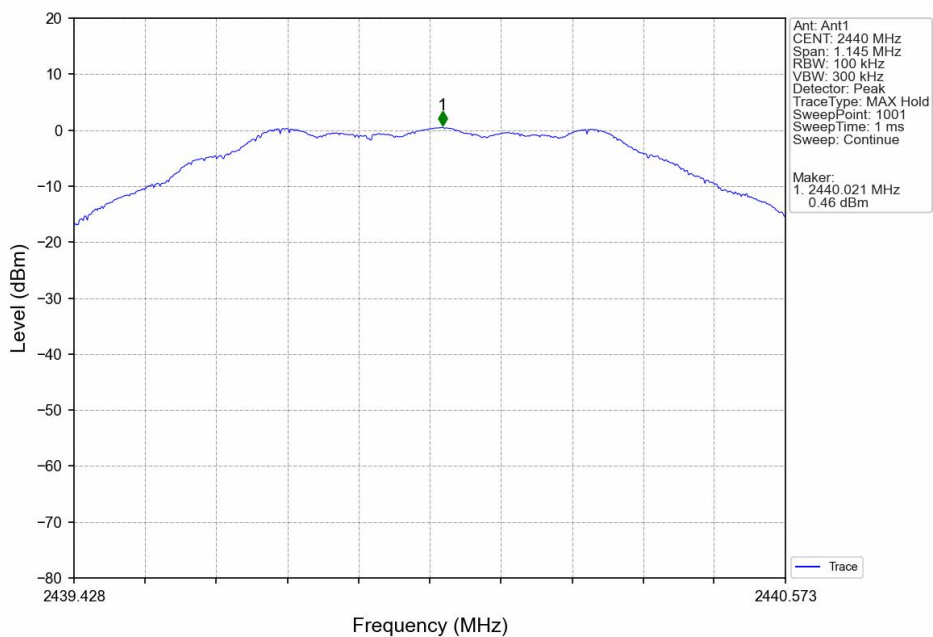




1M_LCH_2402MHz_Ant1_NTNV

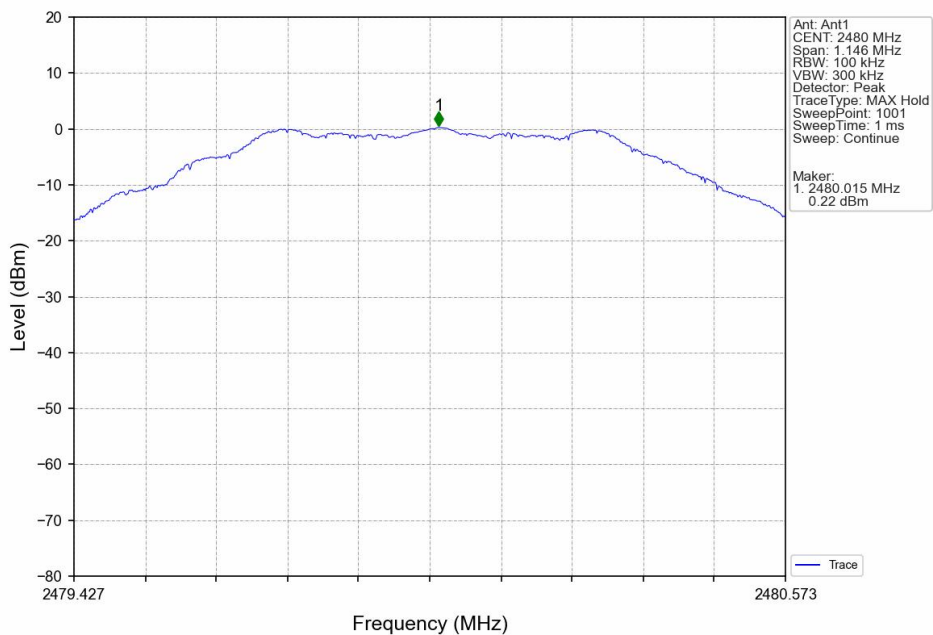


1M_MCH_2440MHz_Ant1_NTNV

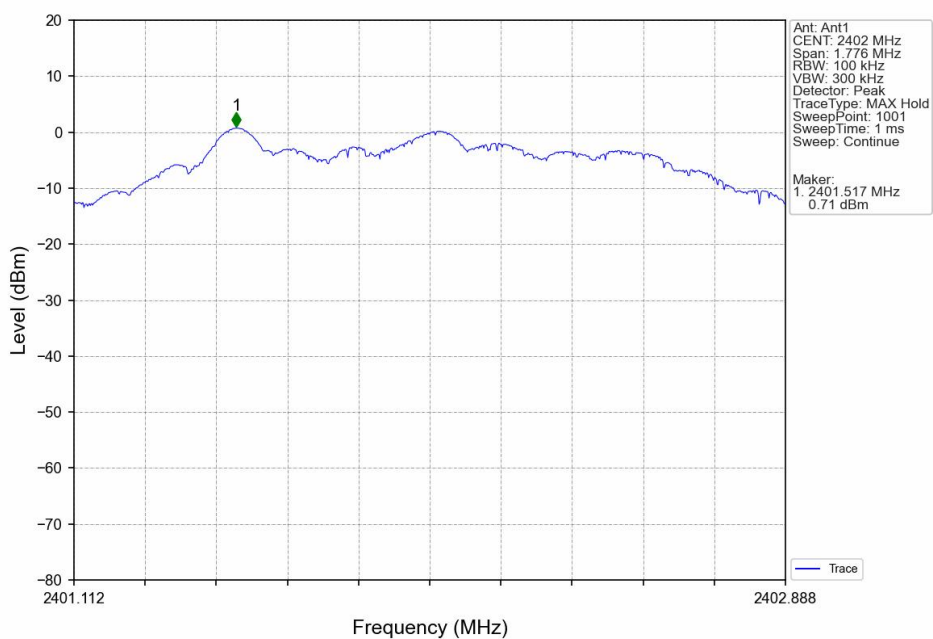




1M_HCH_2480MHz_Ant1_NTNV

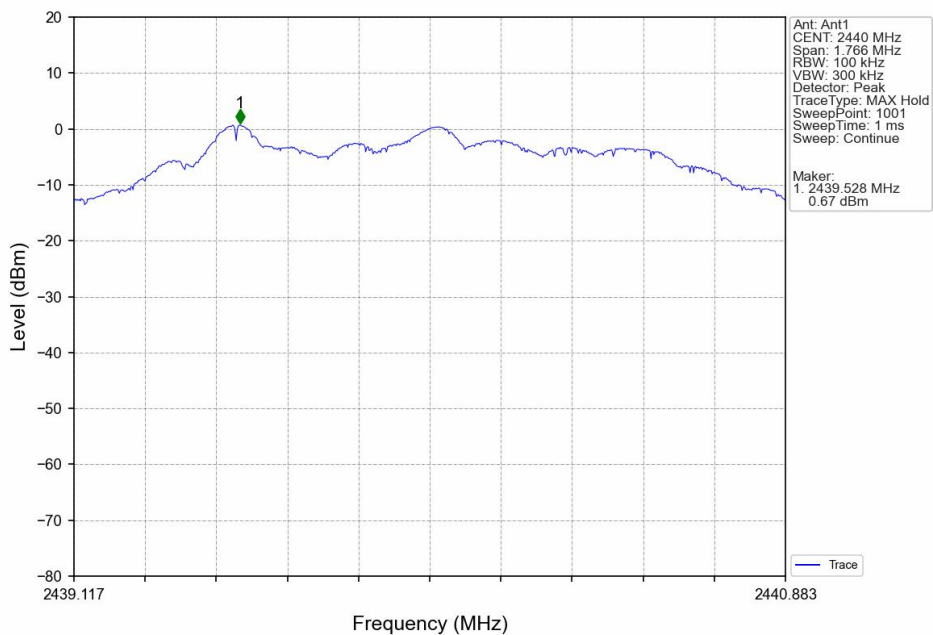


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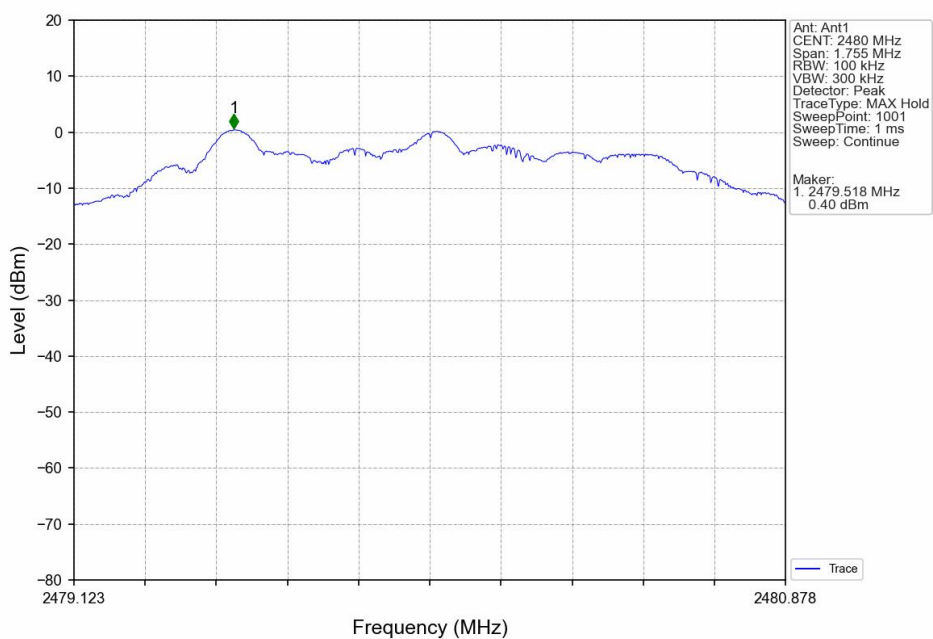




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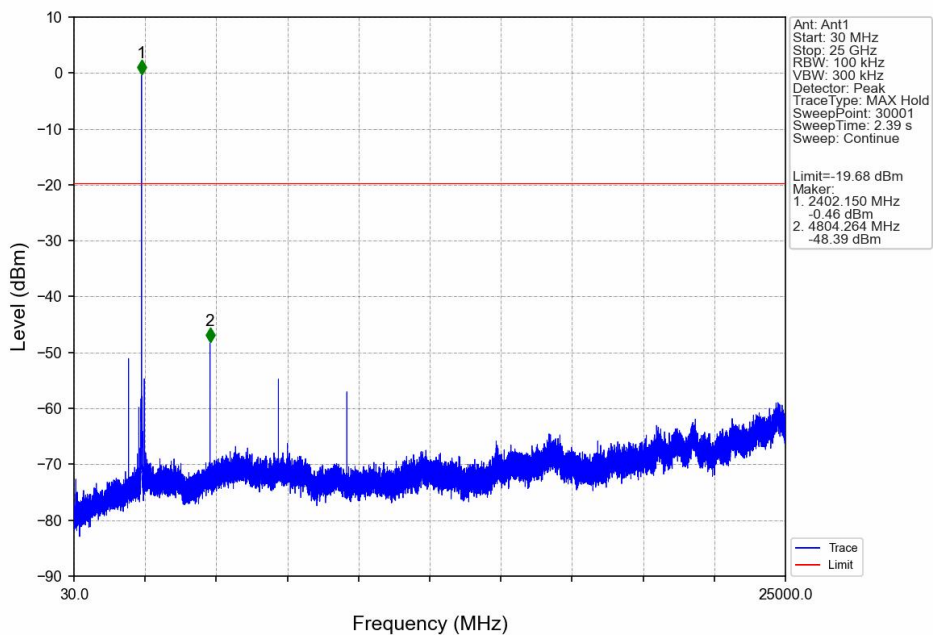


2M_HCH_2480MHz_Ant1_NTNV

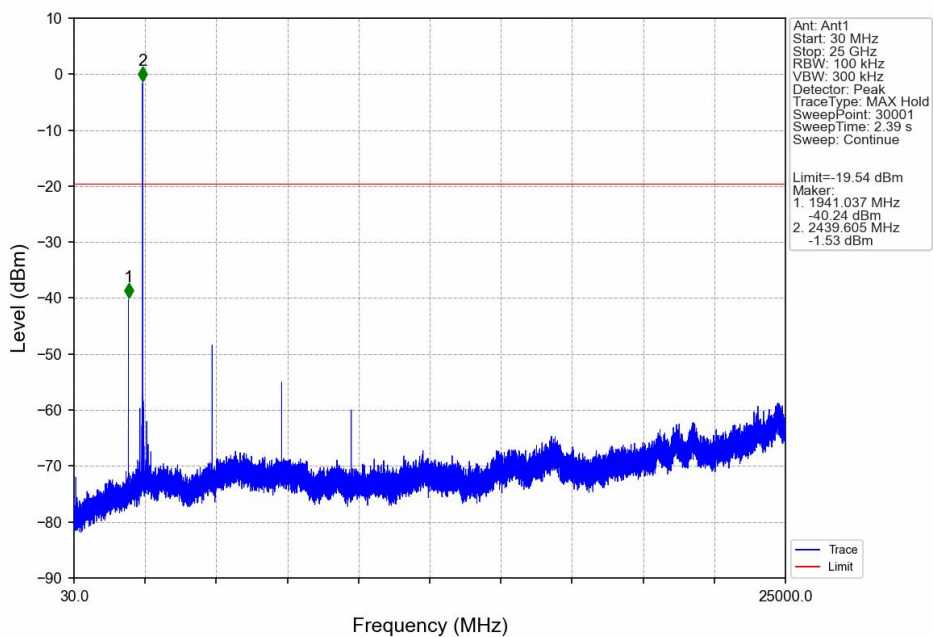




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

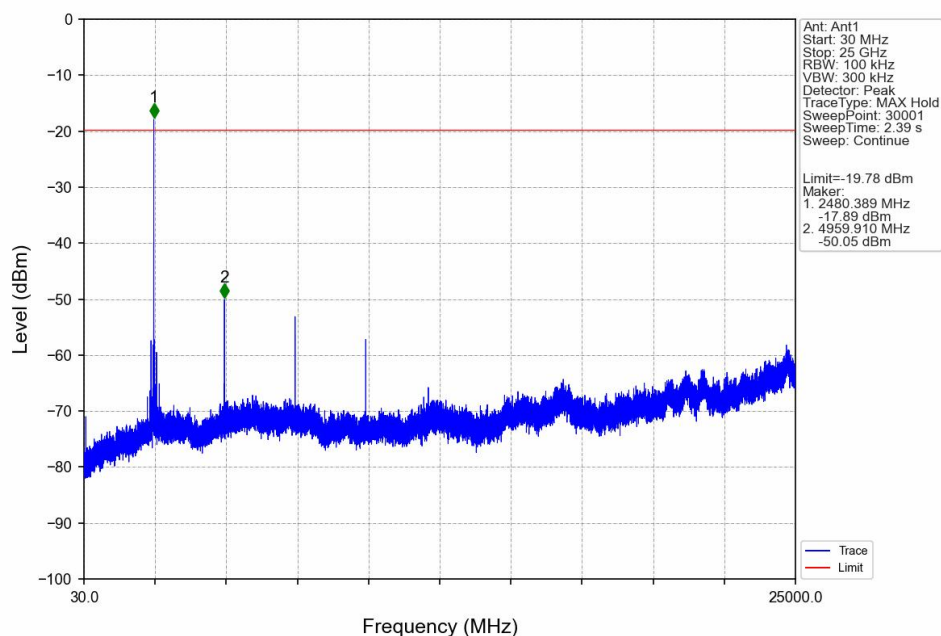


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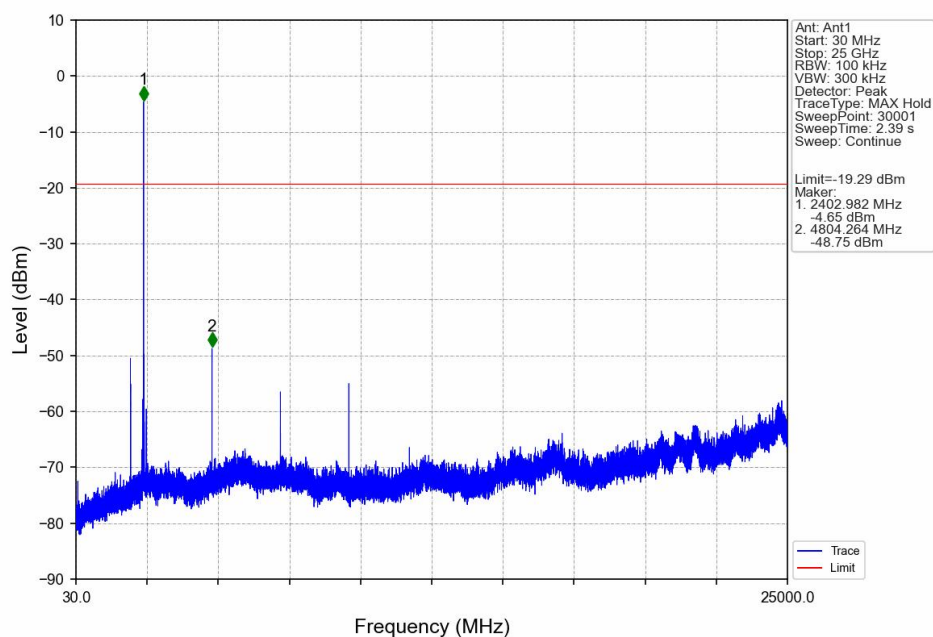
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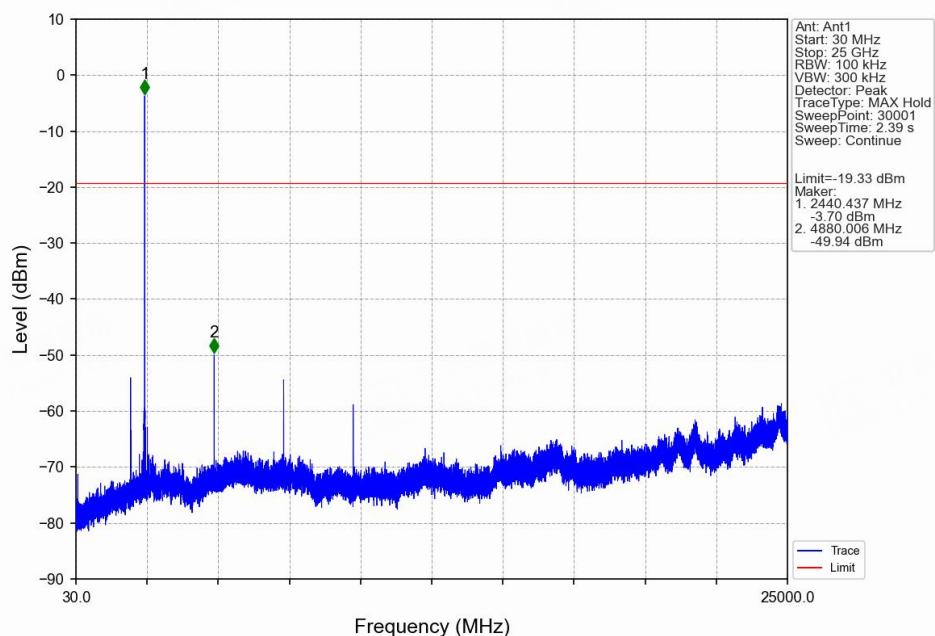


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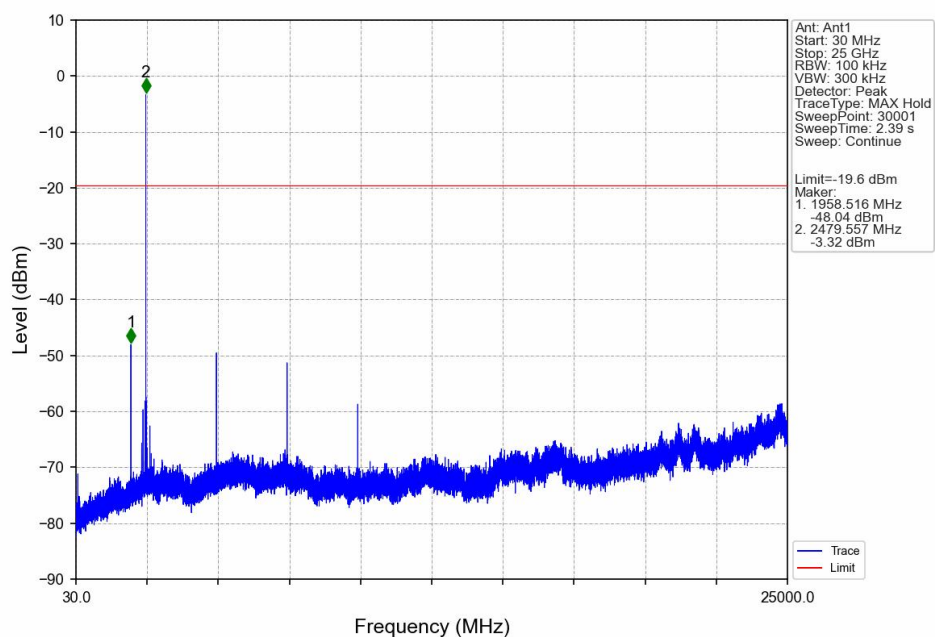


2M_MCH_2440MHz_Ant1_NTNV





2M_HCH_2480MHz_Ant1_NTNV





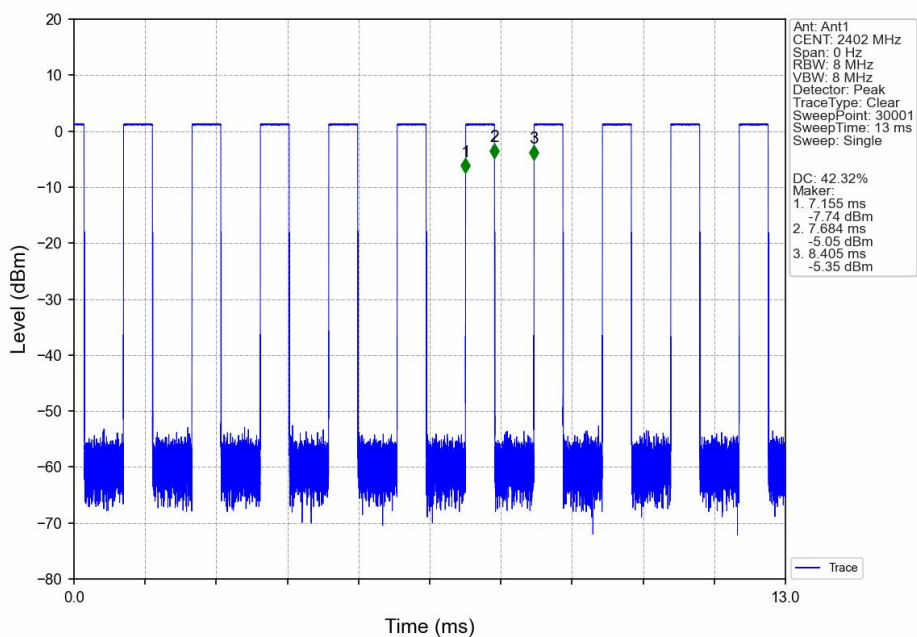
B.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.529	1.250	42.32	3.73	0.03
		2440	0.529	1.250	42.32	3.73	0.05
		2480	0.529	1.250	42.32	3.73	0.02
2M	SISO	2402	0.277	1.250	22.16	6.54	0.03
		2440	0.277	1.251	22.14	6.55	0.03
		2480	0.276	1.250	22.08	6.56	0.03

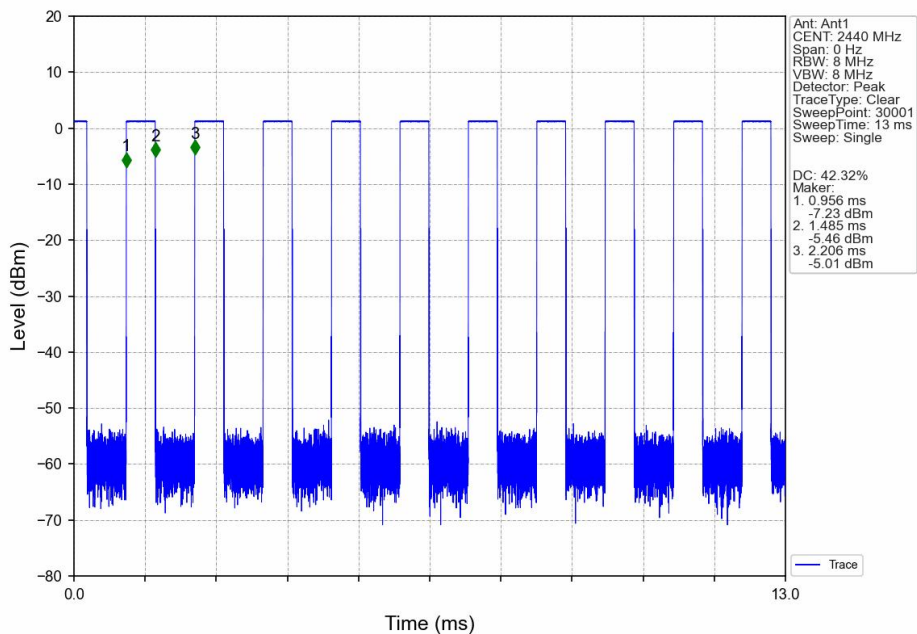




1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



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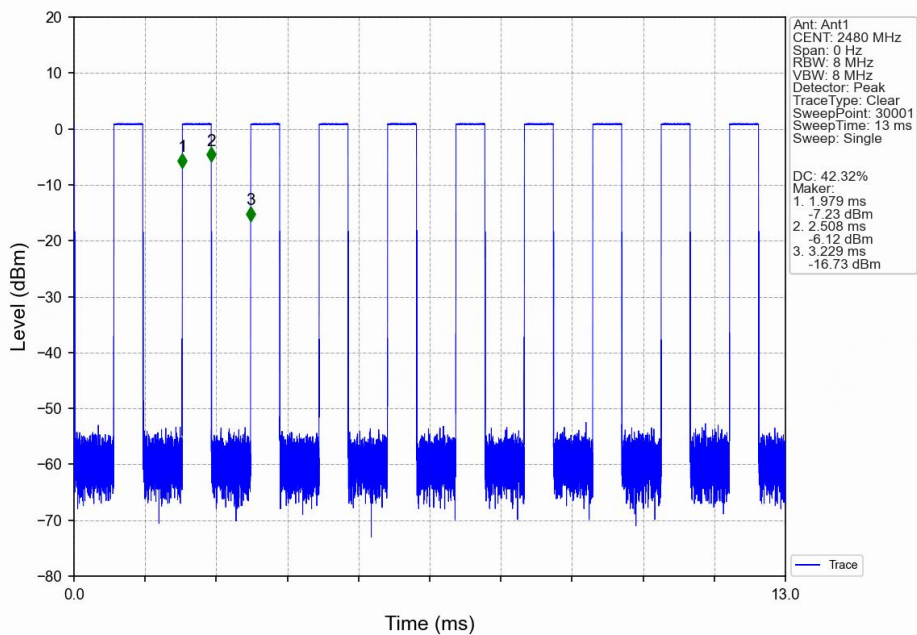
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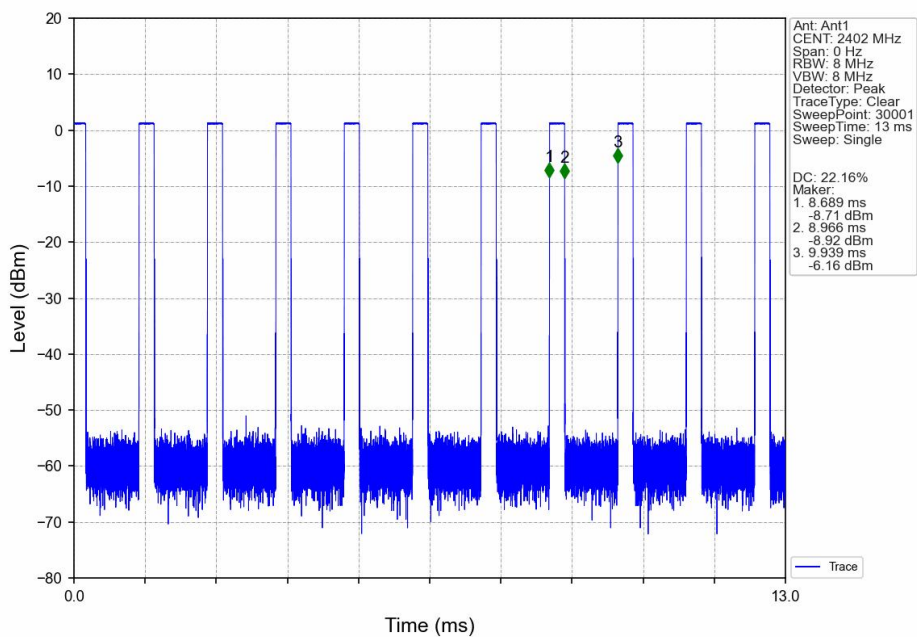
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1M_HCH_2480MHz_Ant1_NTNV

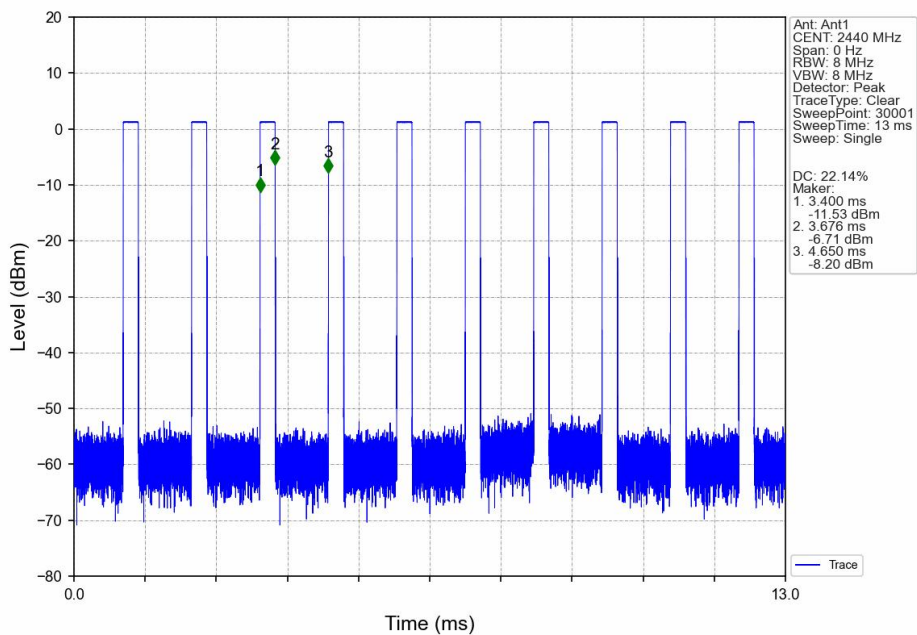


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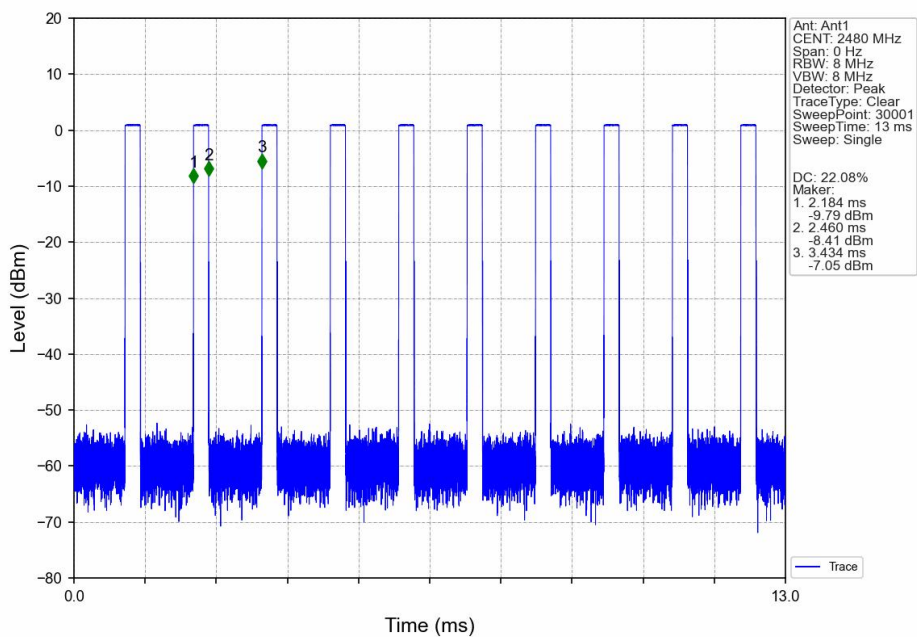




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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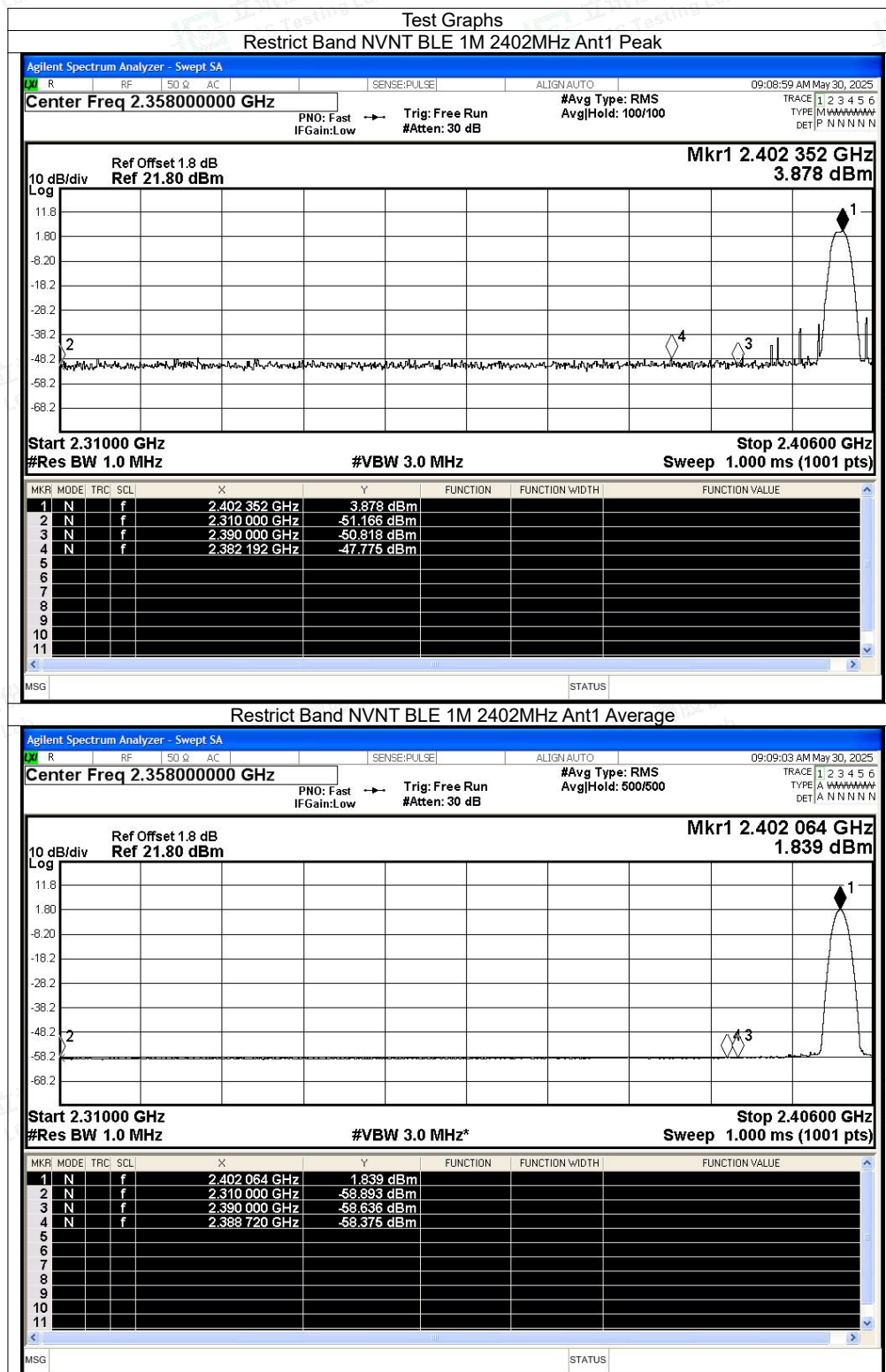


B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.17	2	-	46.09	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.89	2	3.73	42.10	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2382.192	-47.78	2	-	49.48	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.72	-58.38	2	3.73	42.61	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.82	2	-	46.44	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.64	2	3.73	42.35	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.9	2	-	48.36	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.4	2	3.73	44.59	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.736	-31.83	2	-	65.43	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.56	-55.05	2	3.73	45.94	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.57	2	-	47.69	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.18	2	3.73	42.81	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-51.71	2	-	45.55	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-59.19	2	6.54	44.61	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2378.16	-47.49	2	-	49.77	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2375.088	-57.84	2	6.54	45.96	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-51.6	2	-	45.66	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-59.01	2	6.54	44.79	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-47.88	2	-	49.38	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-56.14	2	6.56	47.68	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.68	-31.5	2	-	65.76	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.92	-52.73	2	6.56	51.09	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.52	2	-	47.74	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.07	2	6.56	45.75	Average	54	Pass



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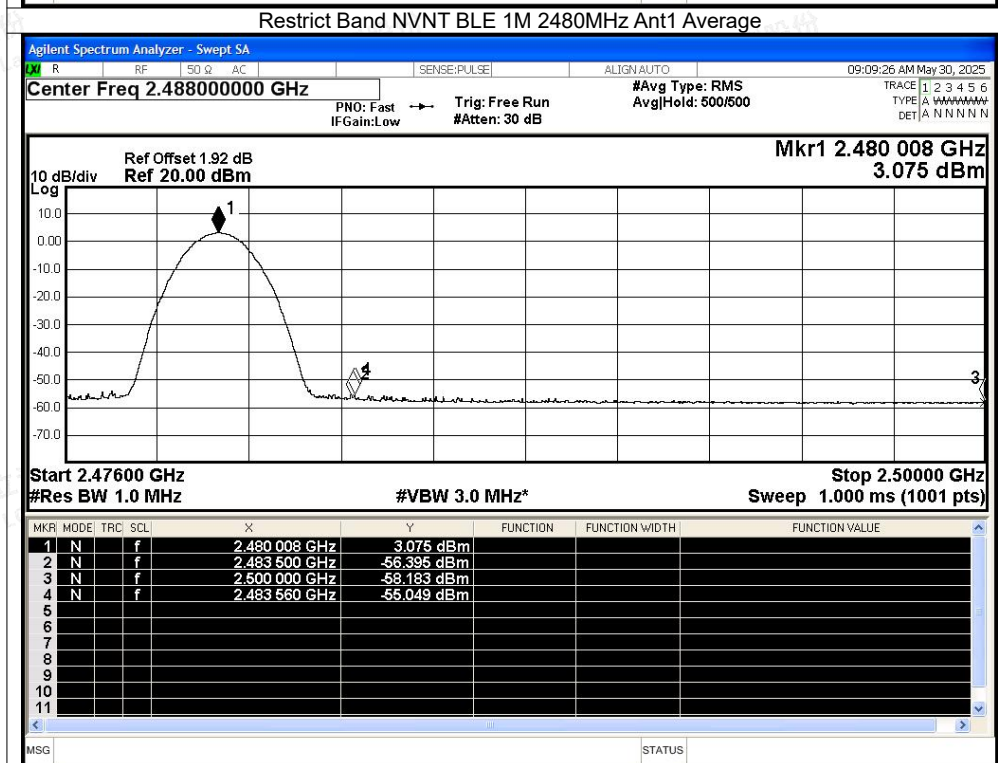
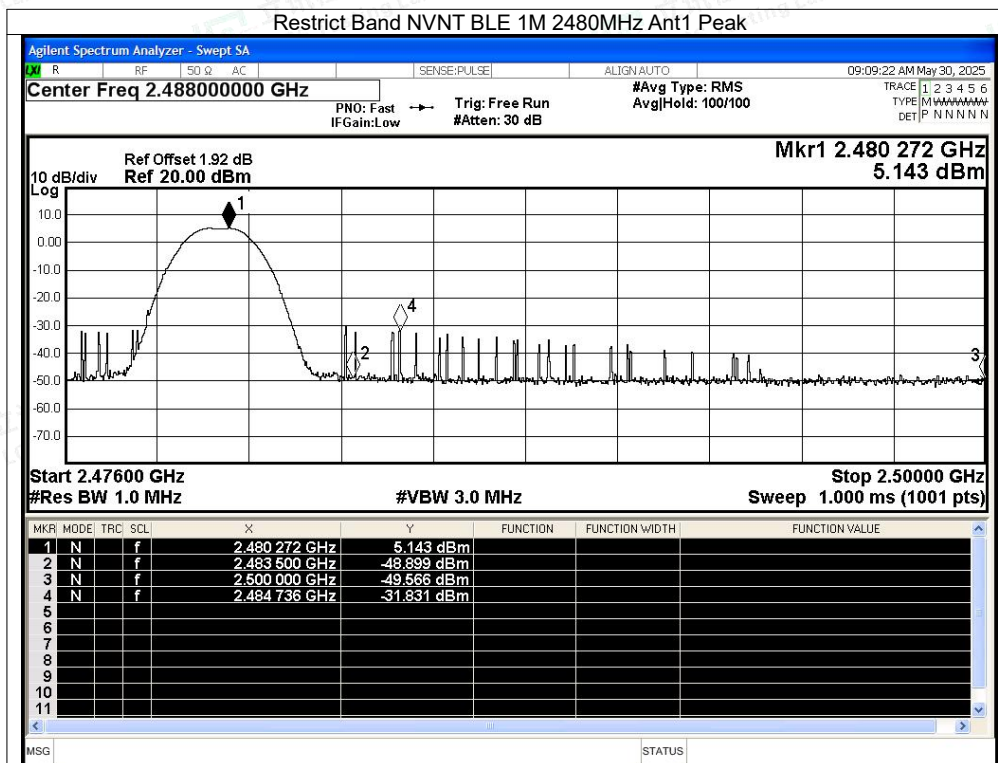


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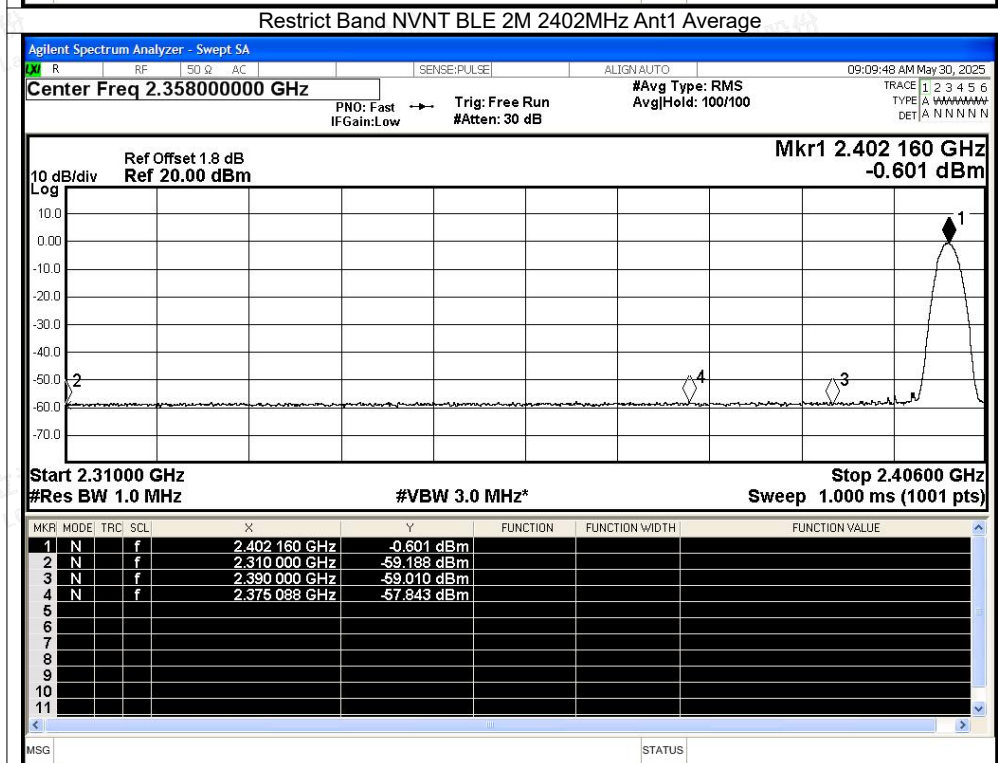
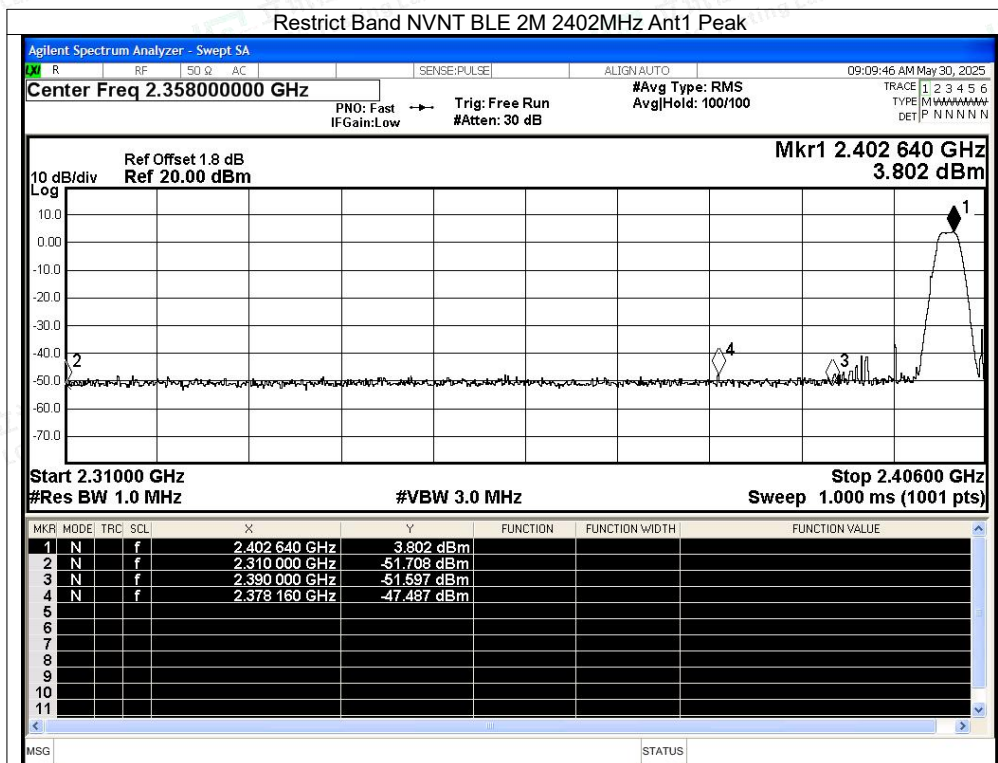


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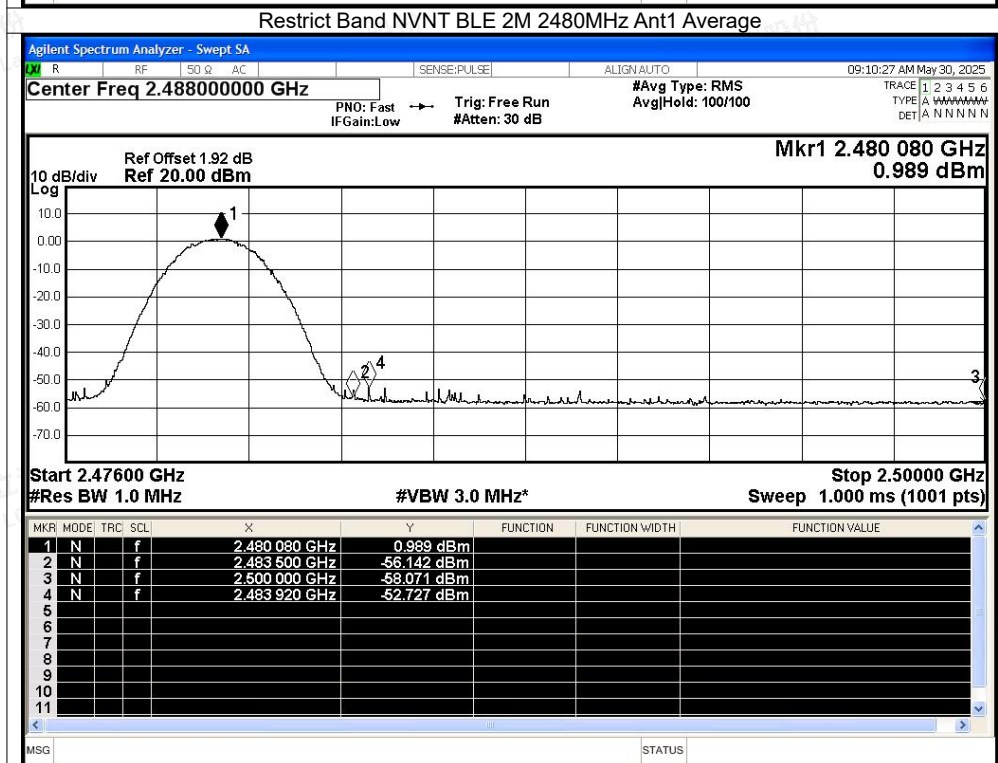
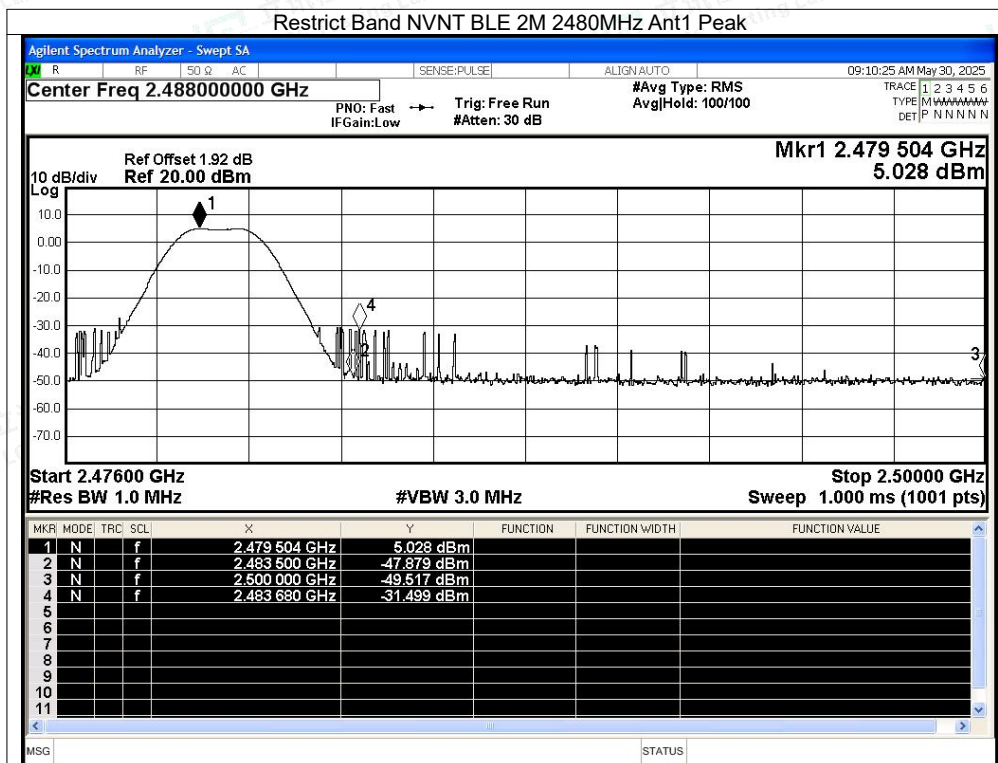


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