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Annex for 2.4GHz Wireless

Test Report No.: CTL2605223021-WF

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FCC ID: 2BW8N-MLR6

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
GFSK	SISO	2406	1	0.134	/	Pass
		2441	1	0.147	/	Pass
		2473	1	0.262	/	Pass

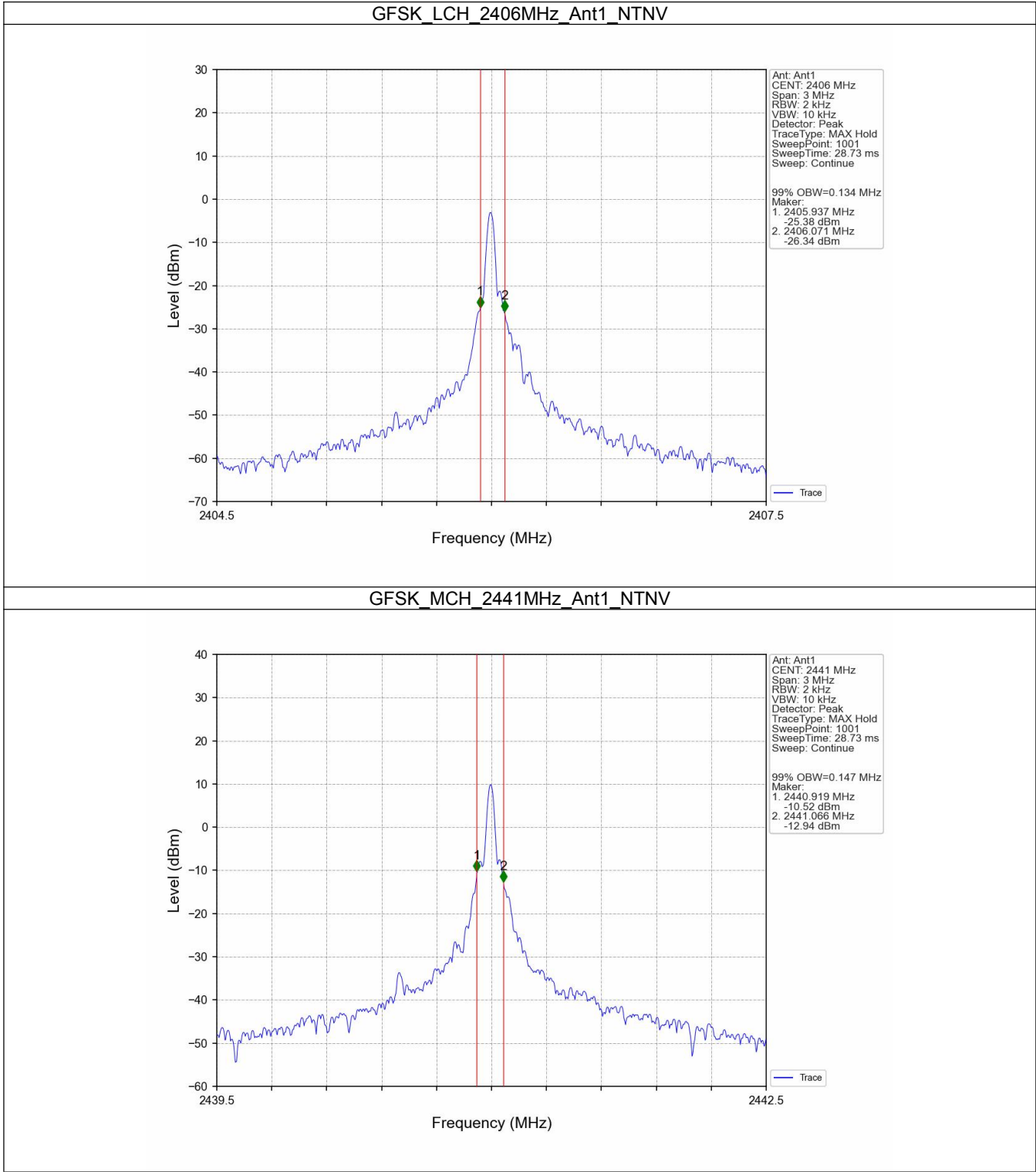
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
GFSK	SISO	2406	1	0.084	/	Pass
		2441	1	0.101	/	Pass
		2473	1	0.126	/	Pass

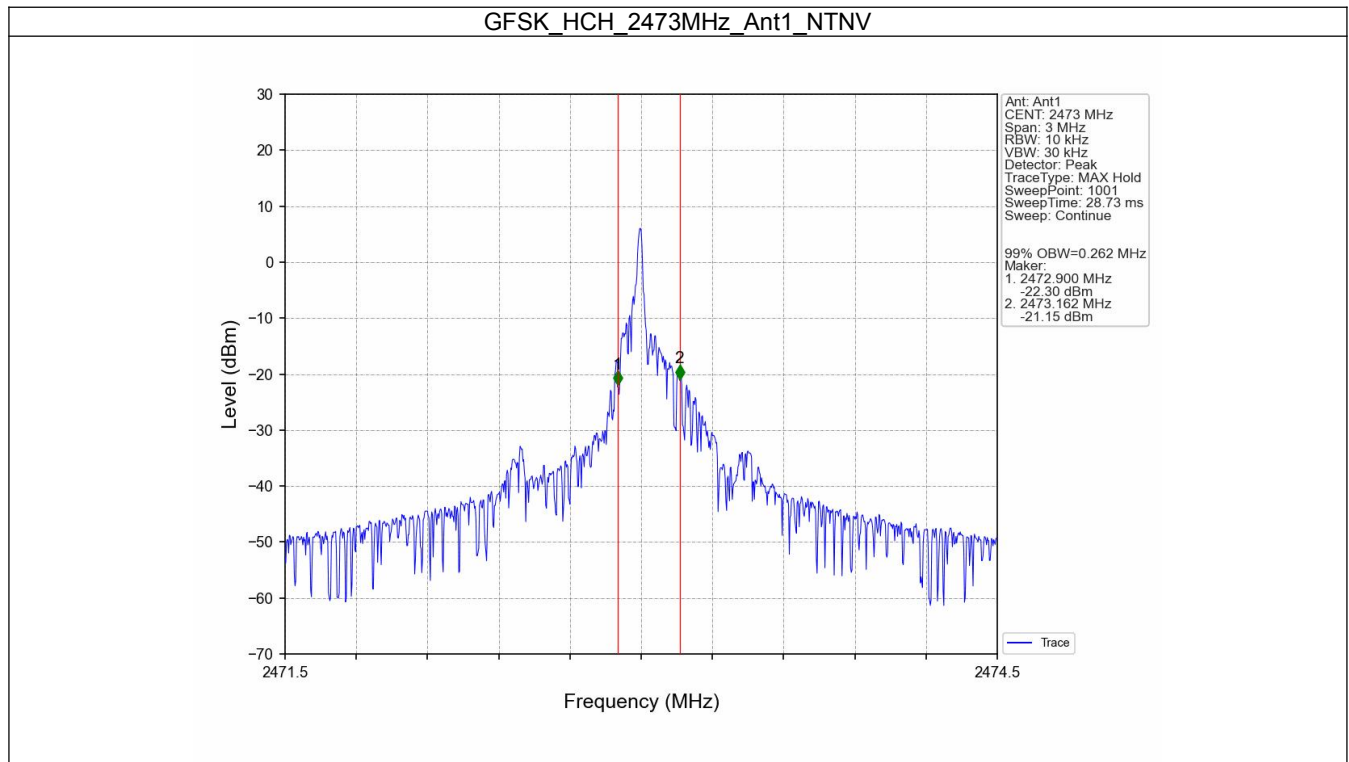
FCC ID: 2BW8N-MLR6

1.2 Test Graph

1.2.1 OBW

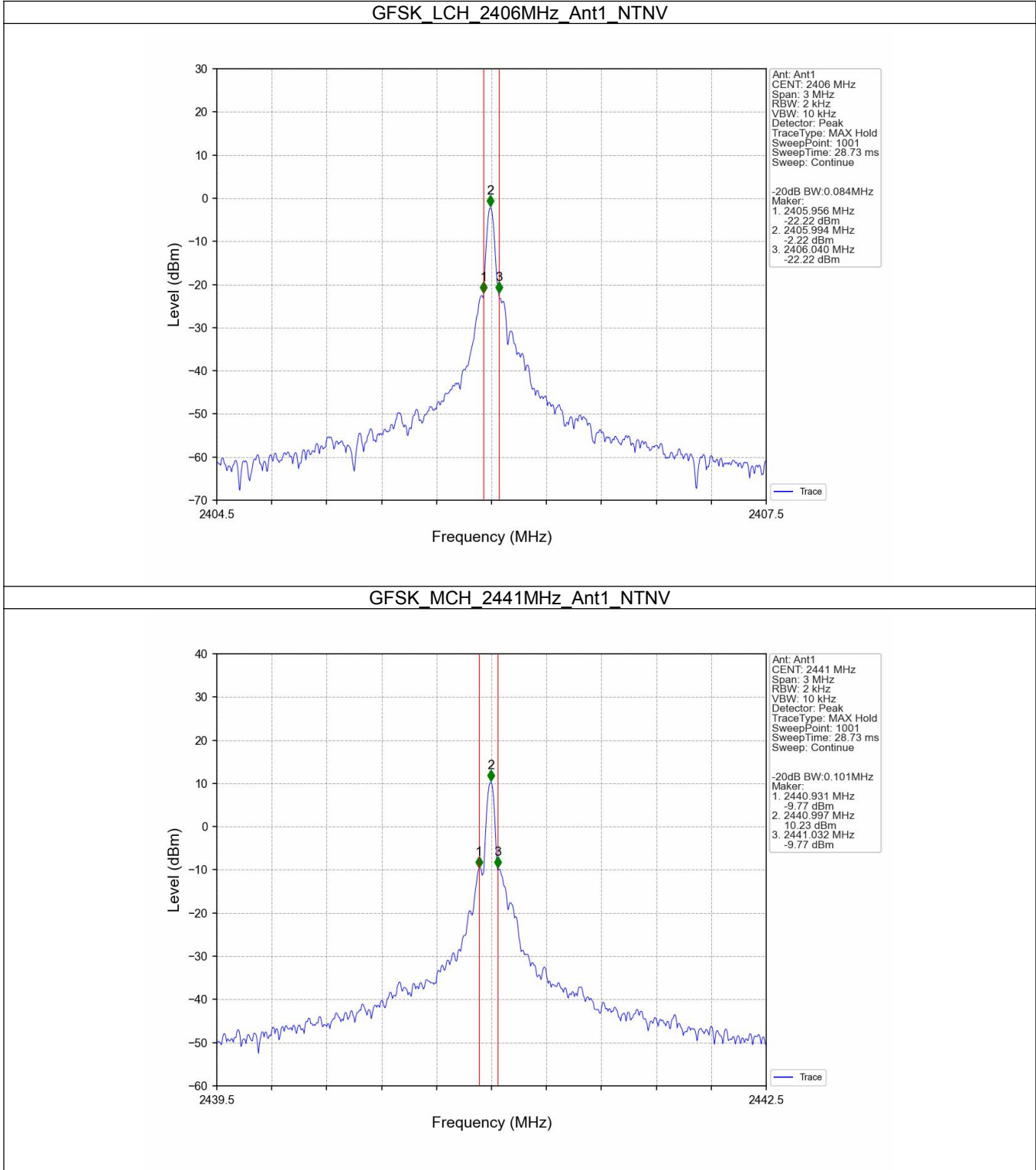


FCC ID: 2BW8N-MLR6

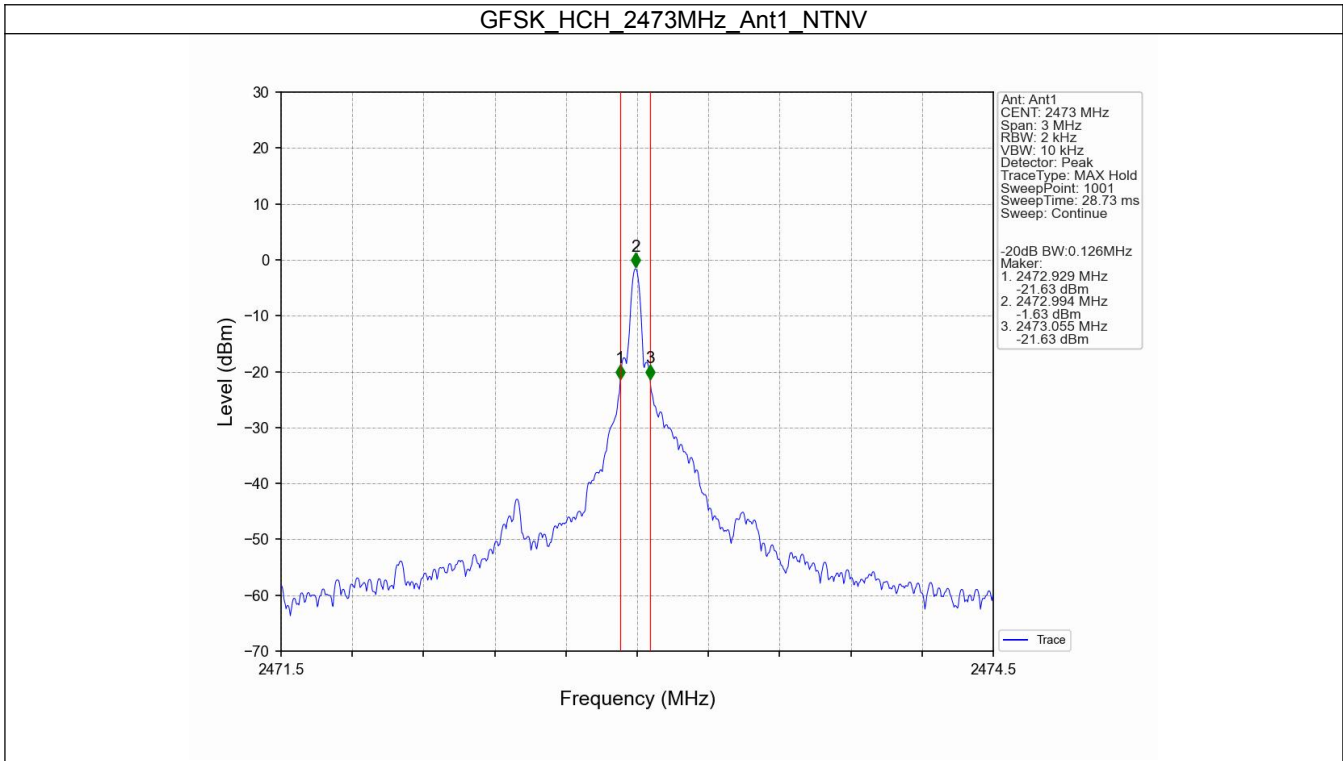


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1.2.2 20dB BW



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FCC ID: 2BW8N-MLR6

2. Maximum Conducted Output Power

2.1 Test Result

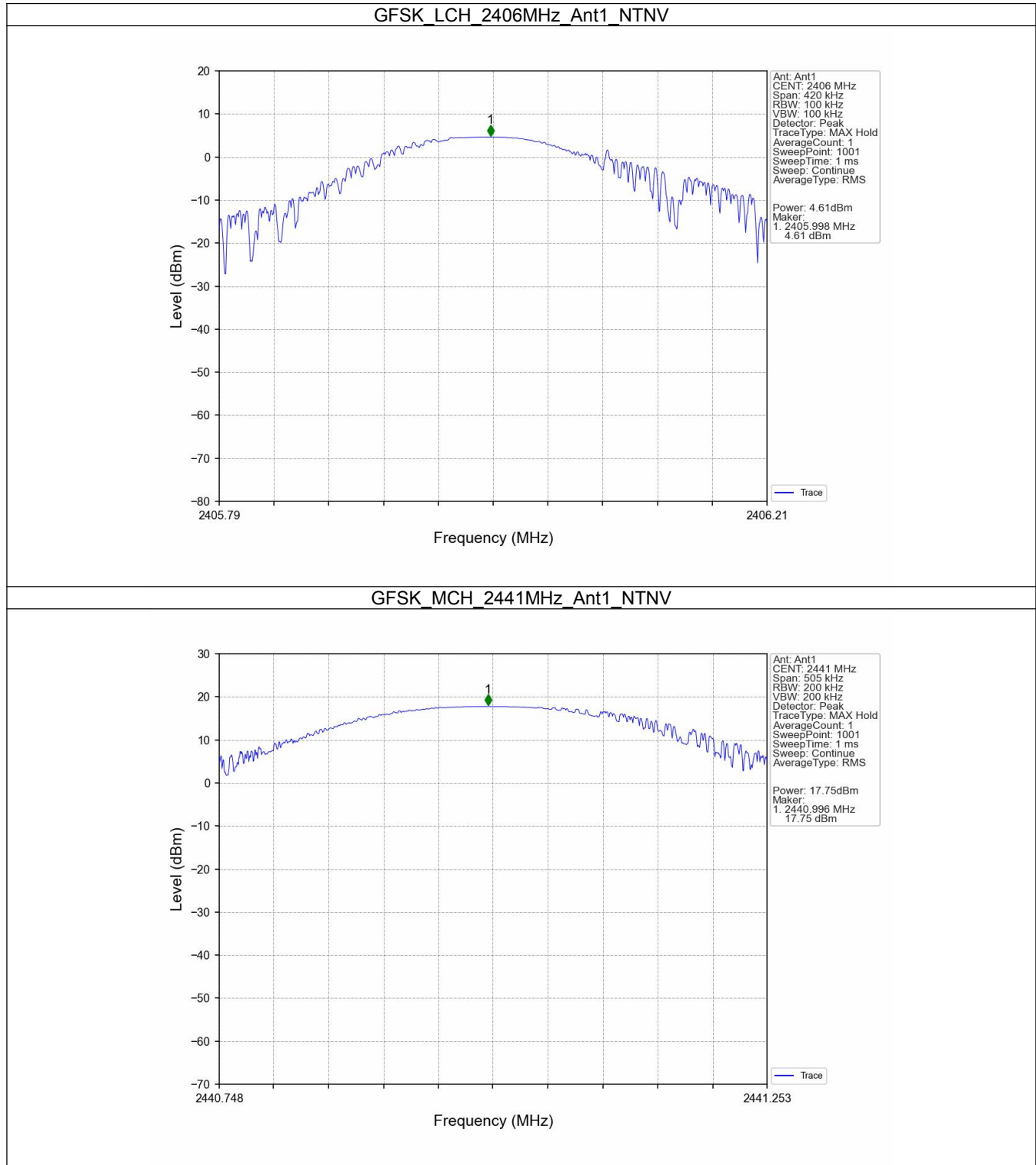
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
GFSK	SISO	2406	4.61	<=20.97	Pass
		2441	17.75	<=20.97	Pass
		2473	6.02	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.29dBi; Note2: RF Cable loss=0.5dB Note3: The test results include RF Cable loss.					

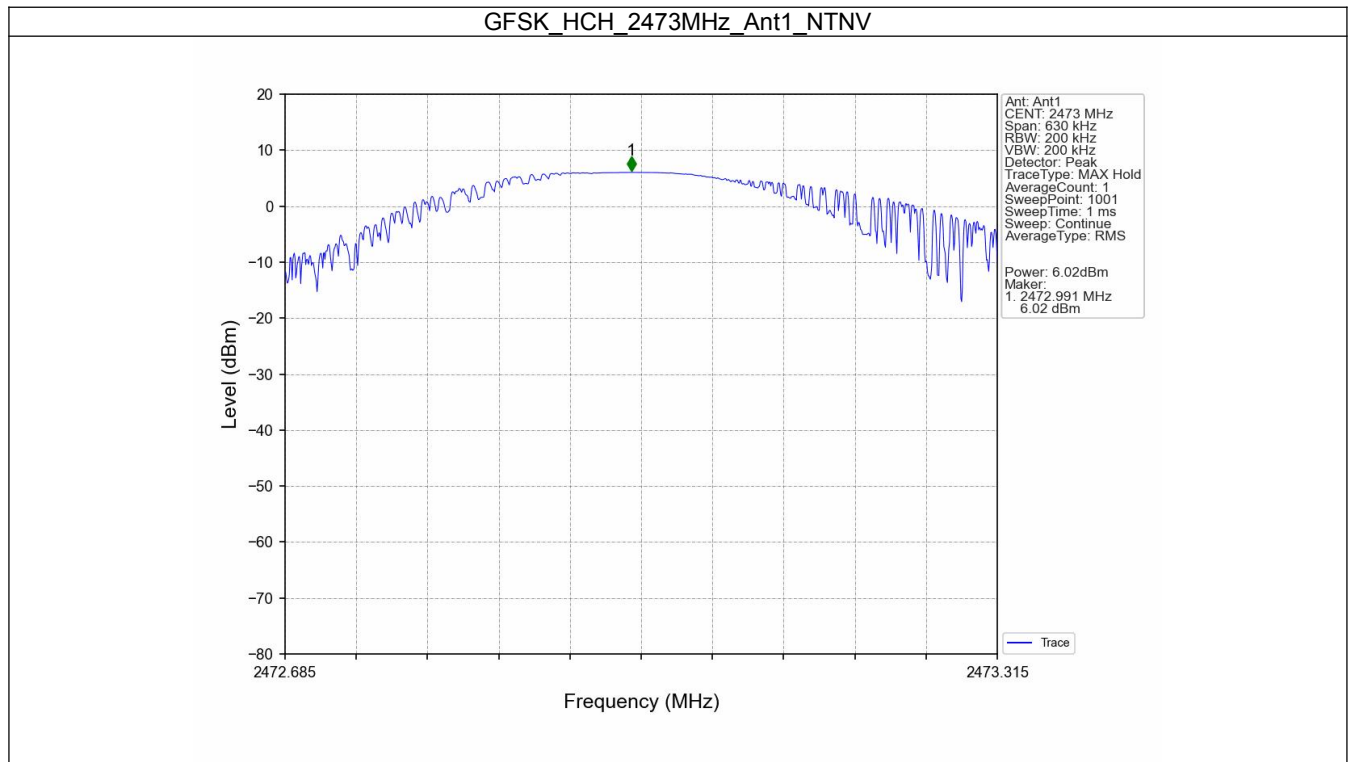
FCC ID: 2BW8N-MLR6

2.2 Test Graph

2.2.1 Power



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3. Carrier Frequency Separation

3.1 Test Result

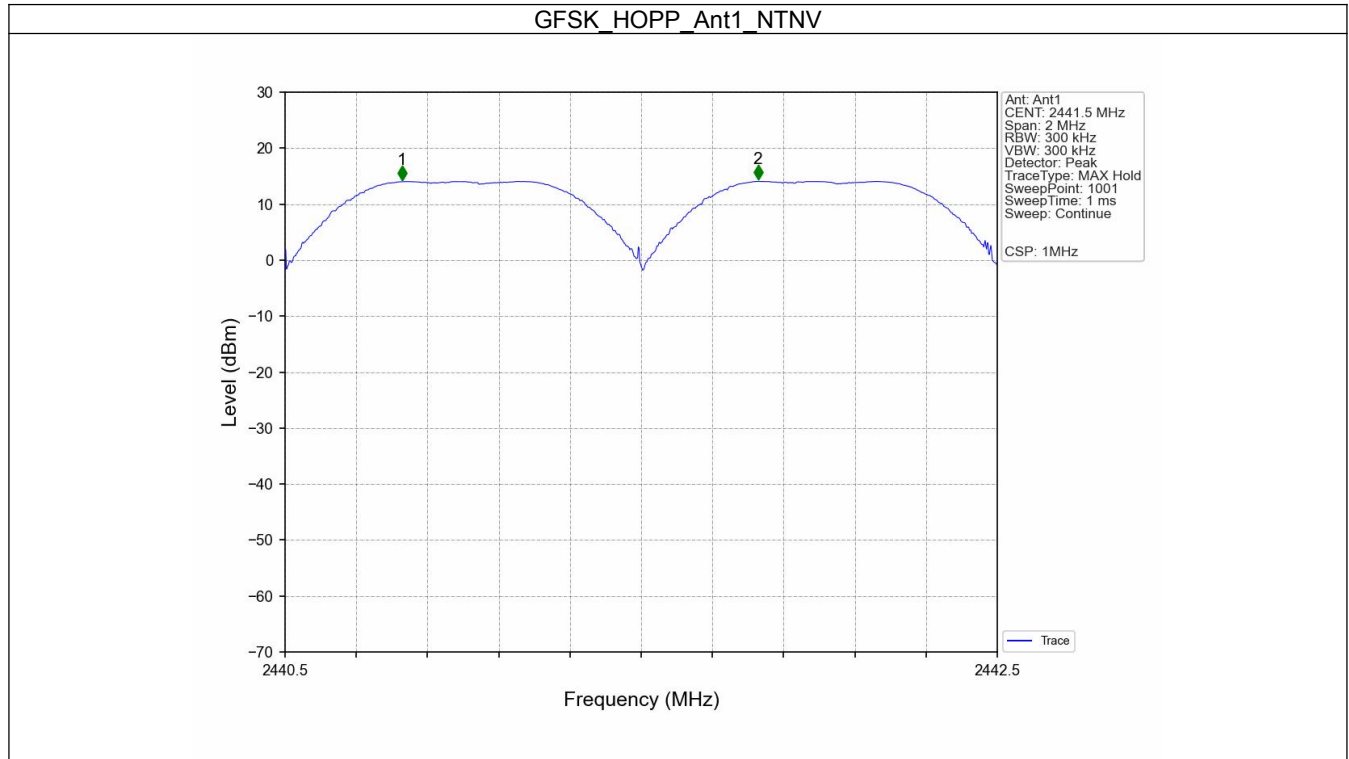
3.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	1.000	0.126	≥ 0.126	Pass

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3.2 Test Graph

3.2.1 Ant1



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4. Number of Hopping Frequencies

4.1 Test Result

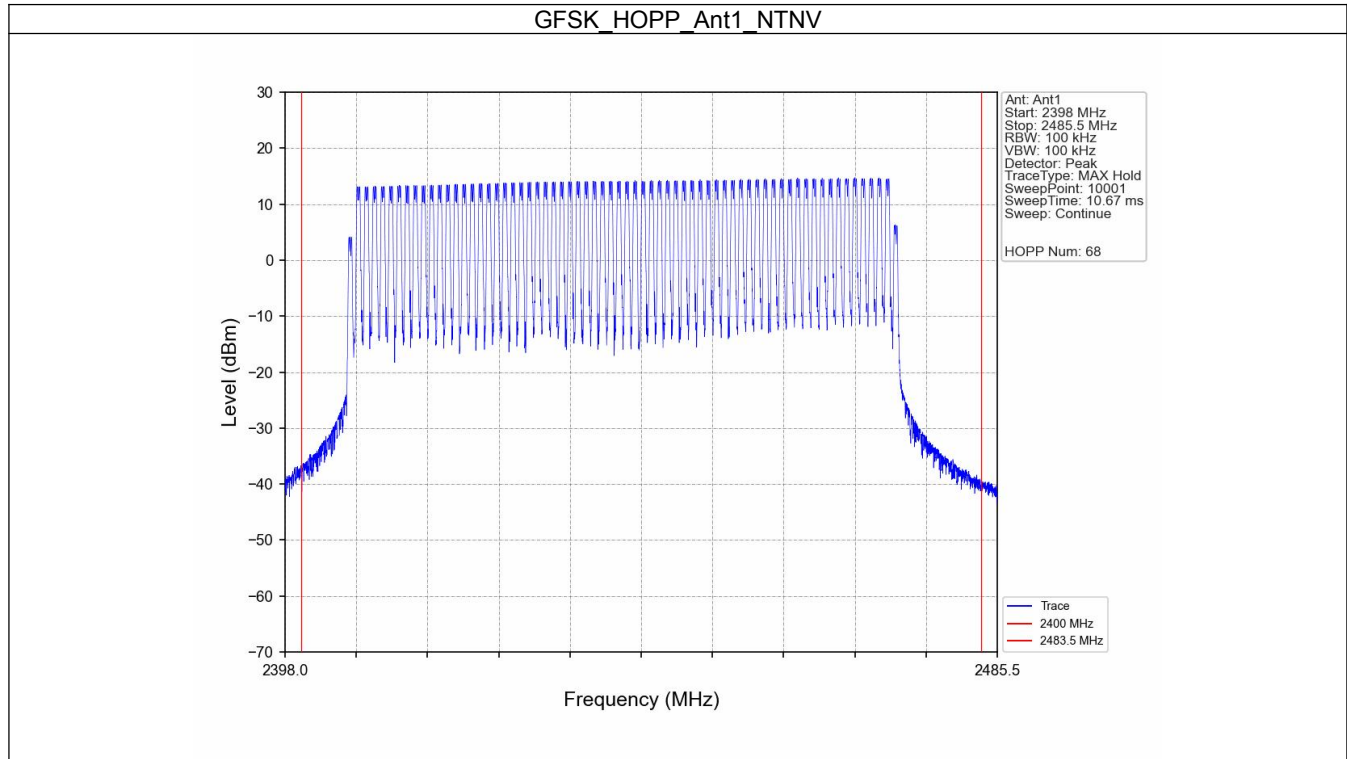
4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
GFSK	SISO	HOPP	68	≥ 15	Pass

FCC ID: 2BW8N-MLR6

4.2 Test Graph

4.2.1 HoppNum



FCC ID: 2BW8N-MLR6

5. Time of Occupancy (Dwell Time)

5.1 Test Result

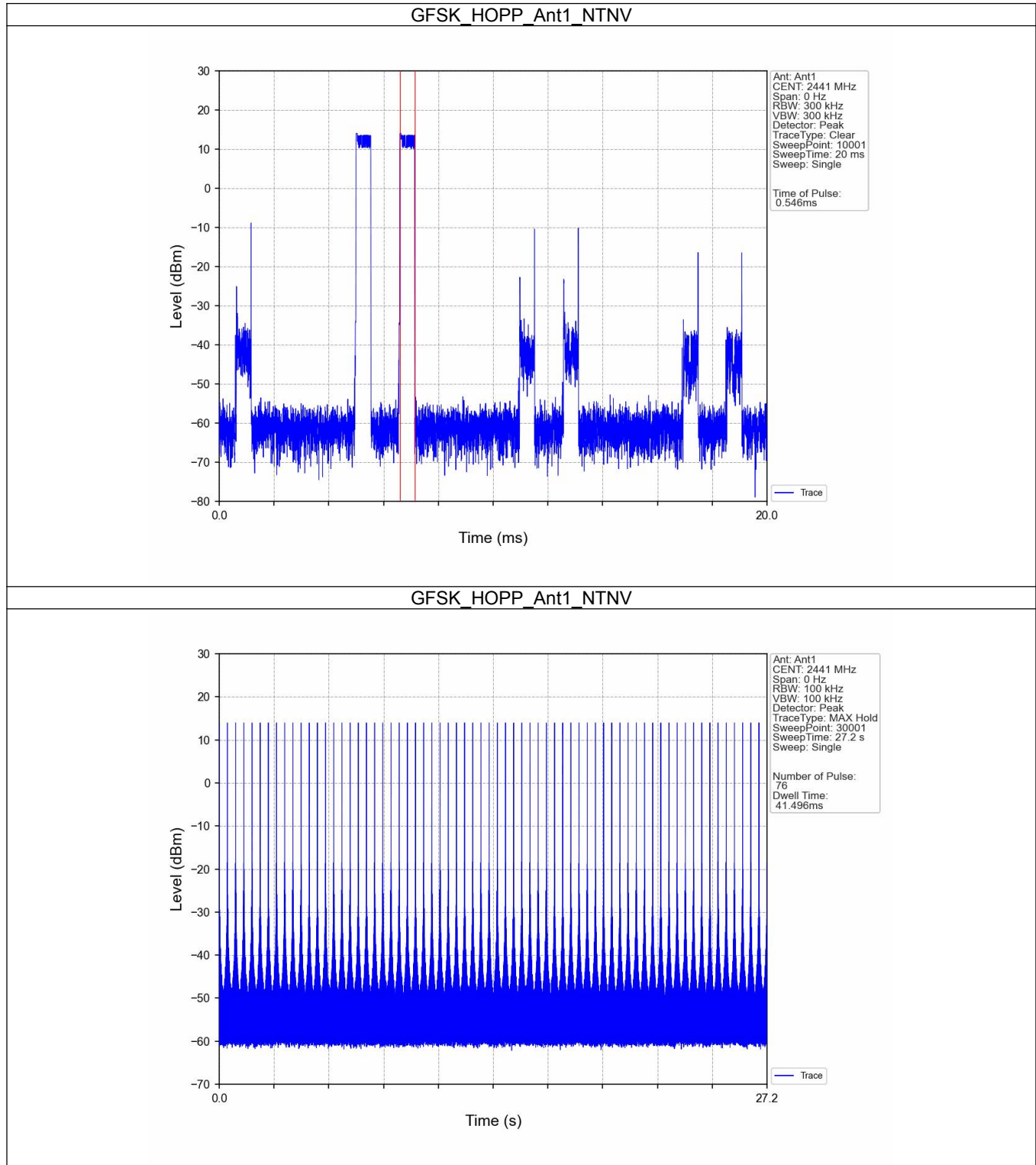
5.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	0.546	27.200	76	41.496	<=400	Pass

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5.2 Test Graph

5.2.1 Ant1



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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
GFSK	SISO	2406	1	4.63
		2441	1	17.67
		2473	1	5.96
		HOPP	1	14.71
				14.71

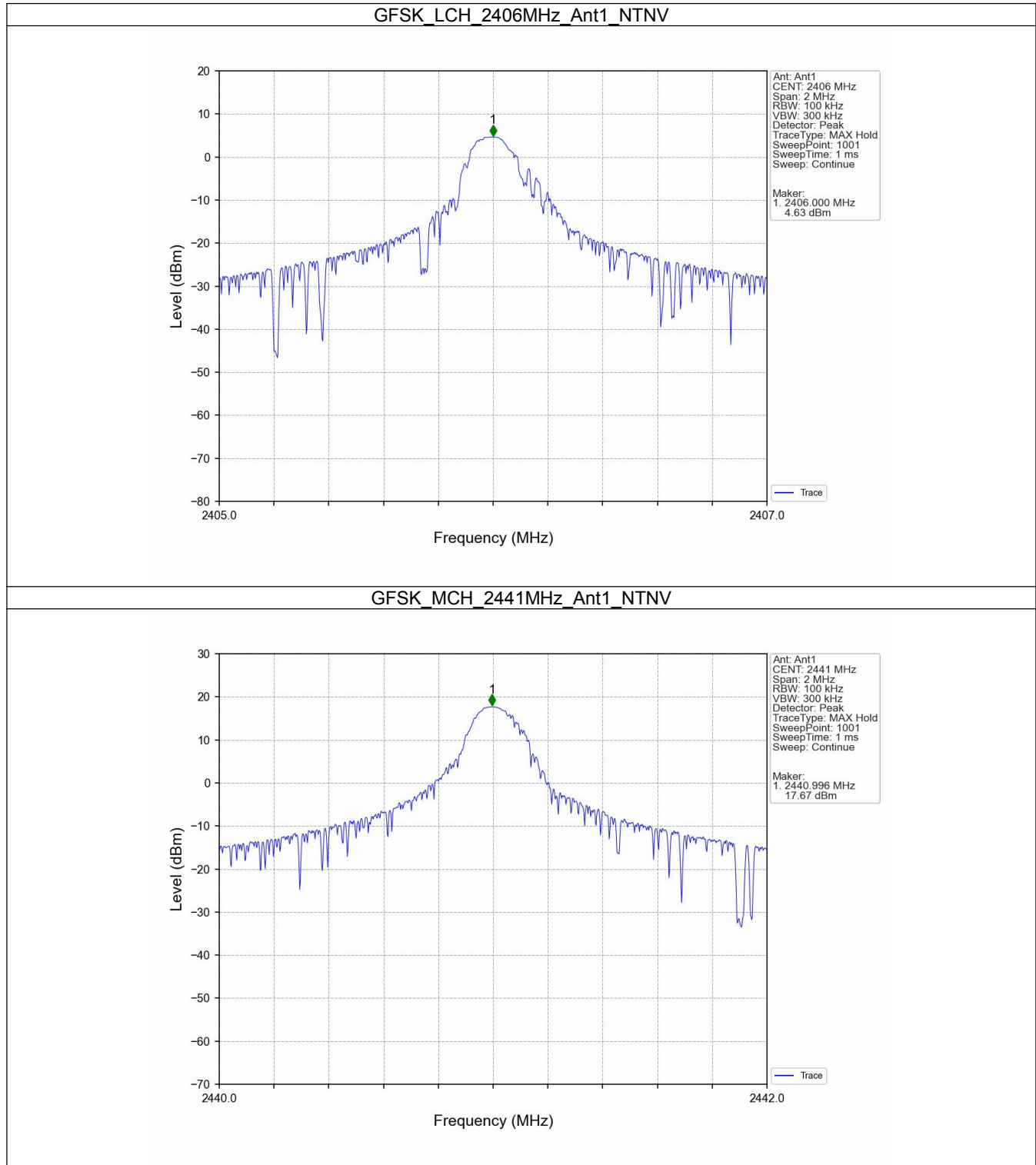
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2406	1	4.63	-15.37	Pass
		2441	1	17.67	-2.33	Pass
		2473	1	5.96	-14.04	Pass
		HOPP	1	14.71	-5.29	Pass
				14.71	-5.29	Pass

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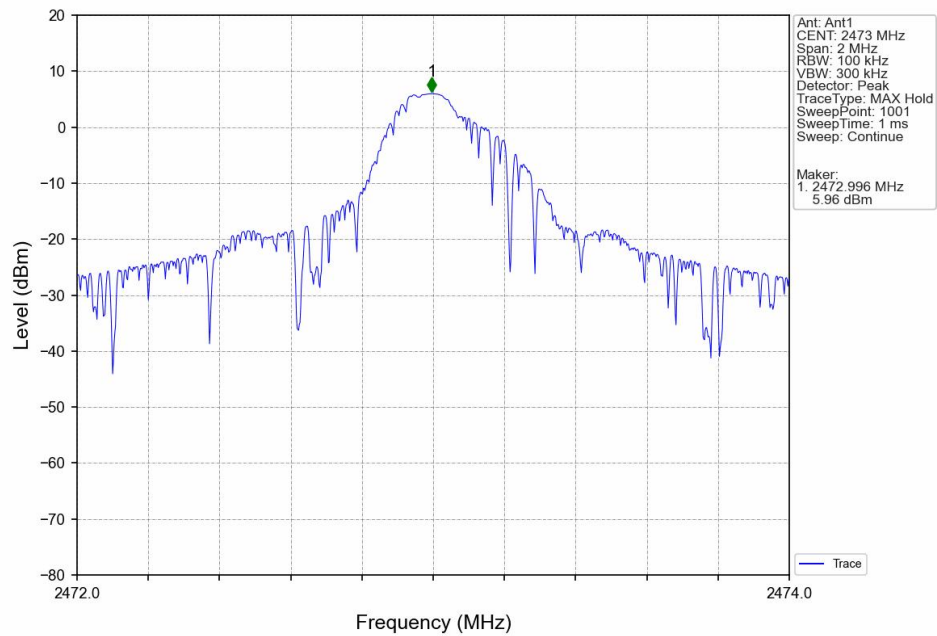
6.2 Test Graph

6.2.1 Ref

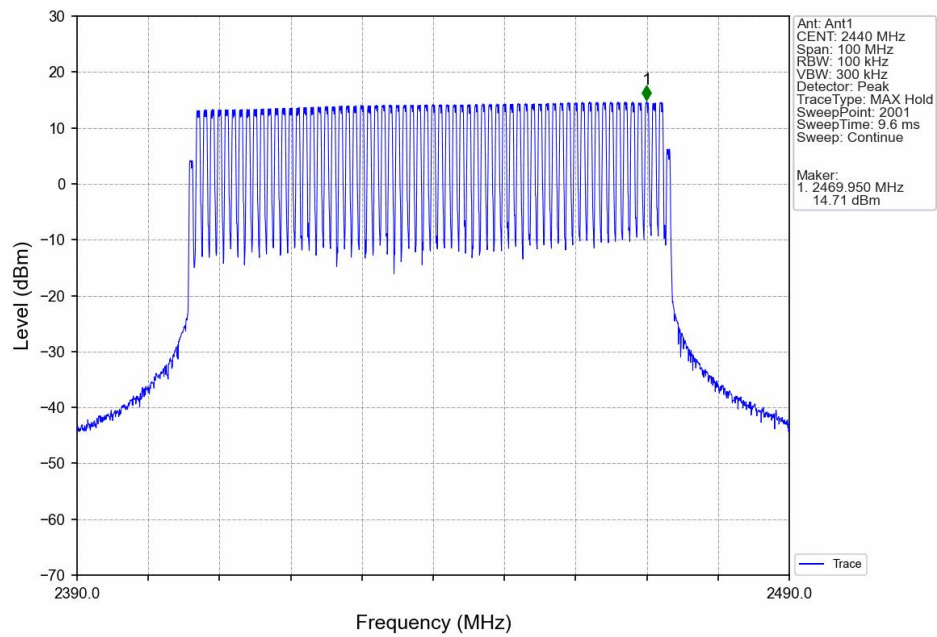


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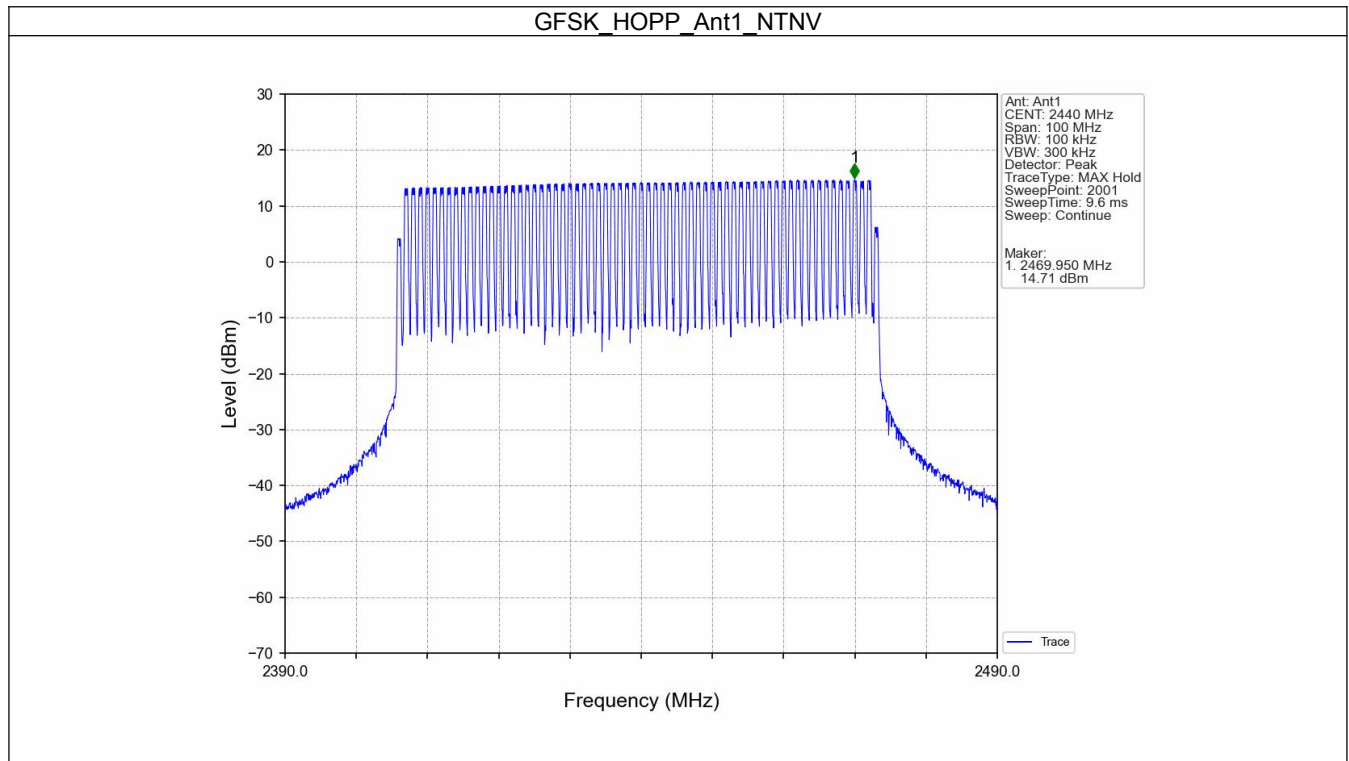
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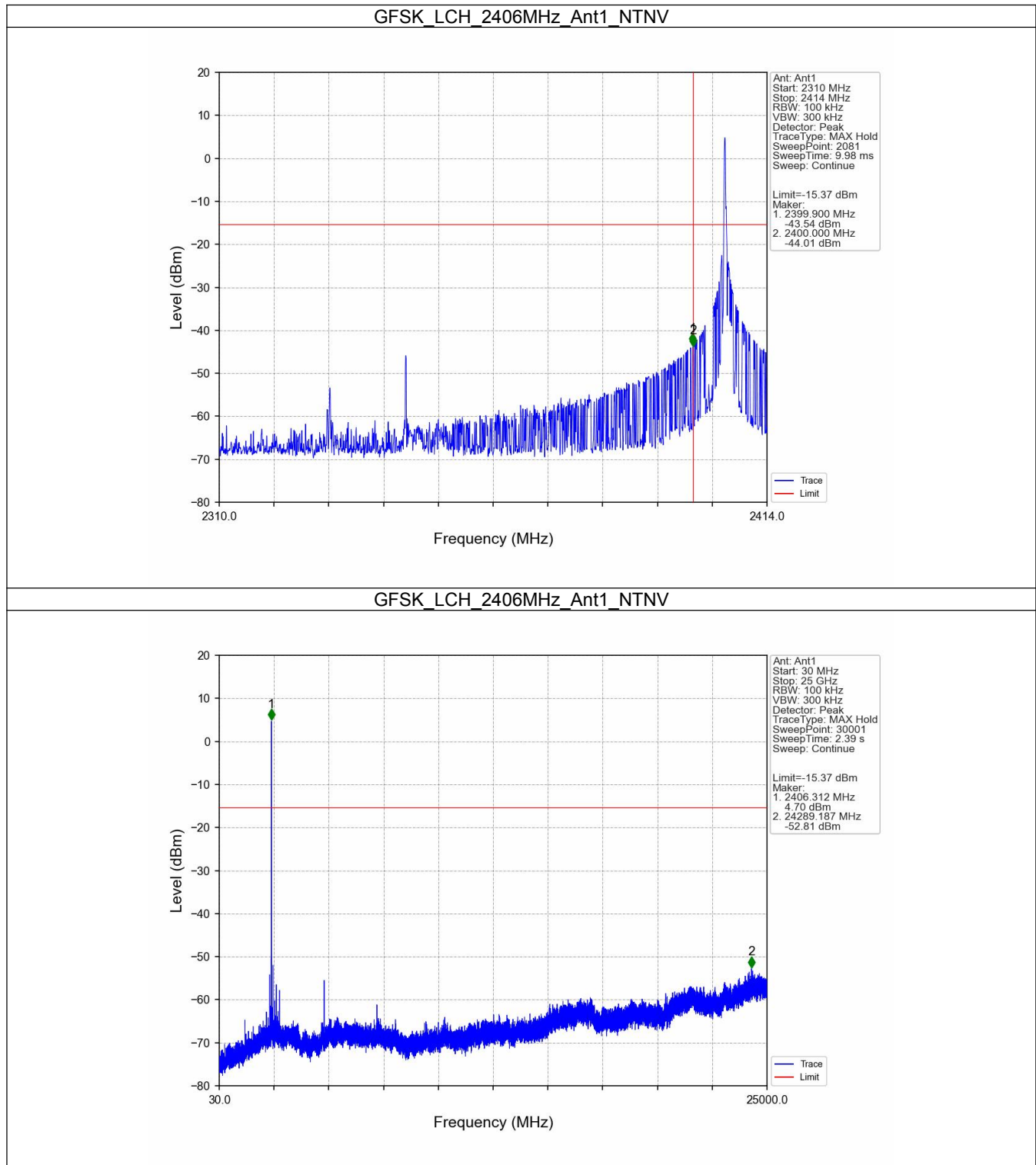
GFSK_HOPP_Ant1_NTNV



FCC ID: 2BW8N-MLR6

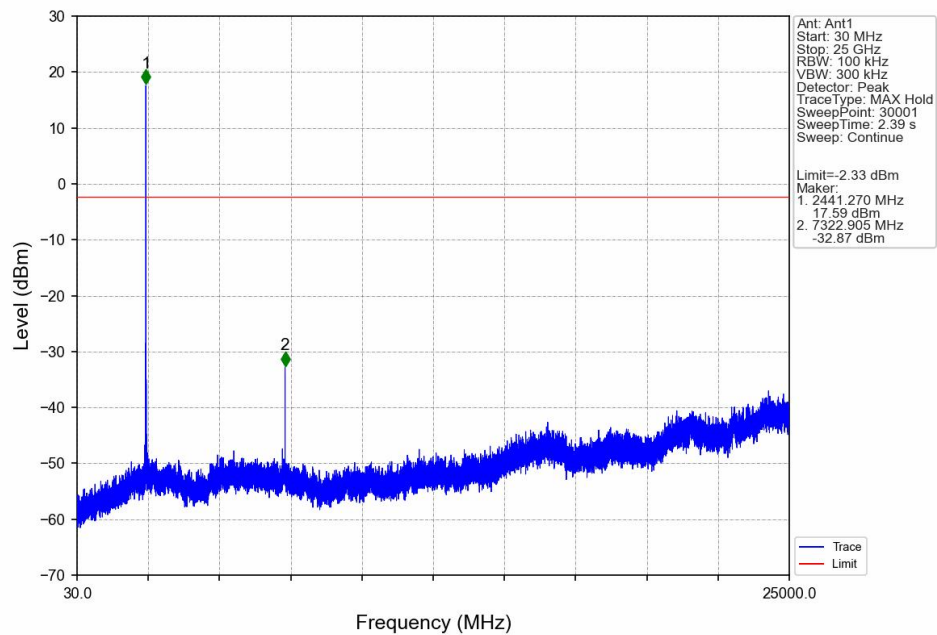


FCC ID: 2BW8N-MLR6

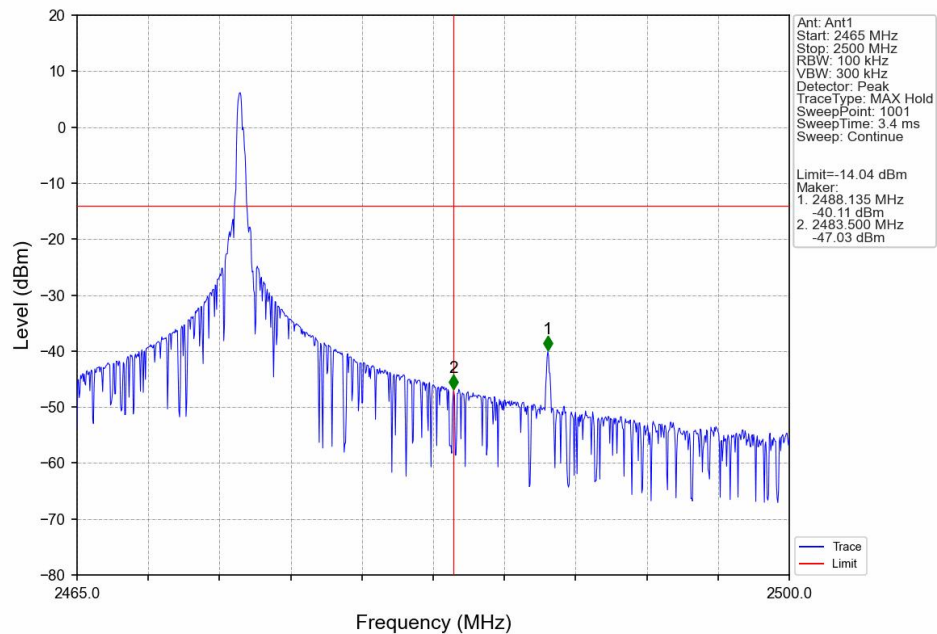
6.2.2 CSE

FCC ID: 2BW8N-MLR6

GFSK_MCH_2441MHz_Ant1_NTNV

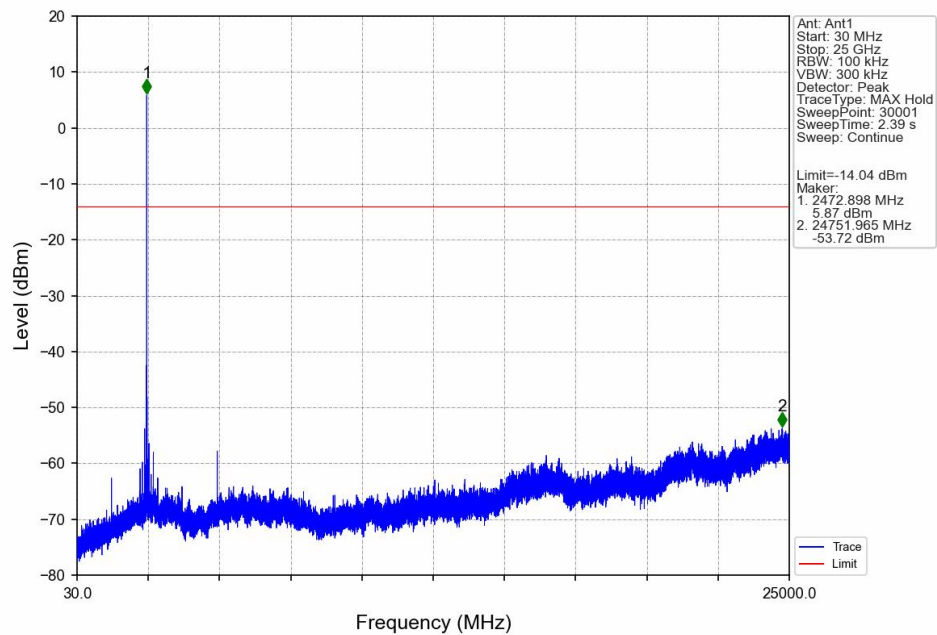


GFSK_HCH_2473MHz_Ant1_NTNV

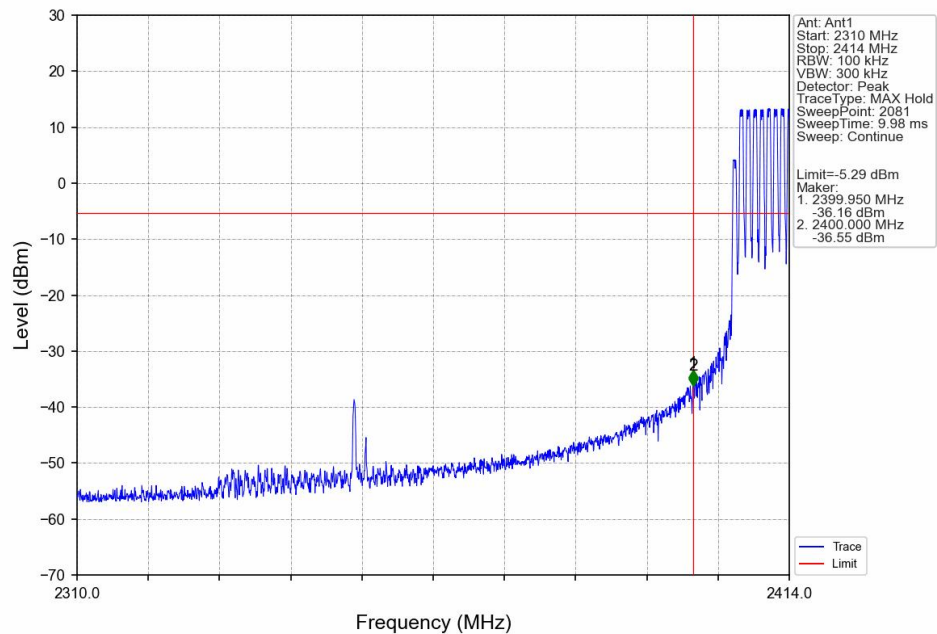


FCC ID: 2BW8N-MLR6

GFSK_HCH_2473MHz_Ant1_NTNV



GFSK_HOPP_Ant1_NTNV



FCC ID: 2BW8N-MLR6

