

Appendix RF test data for Zigbee

1. Duty Cycle

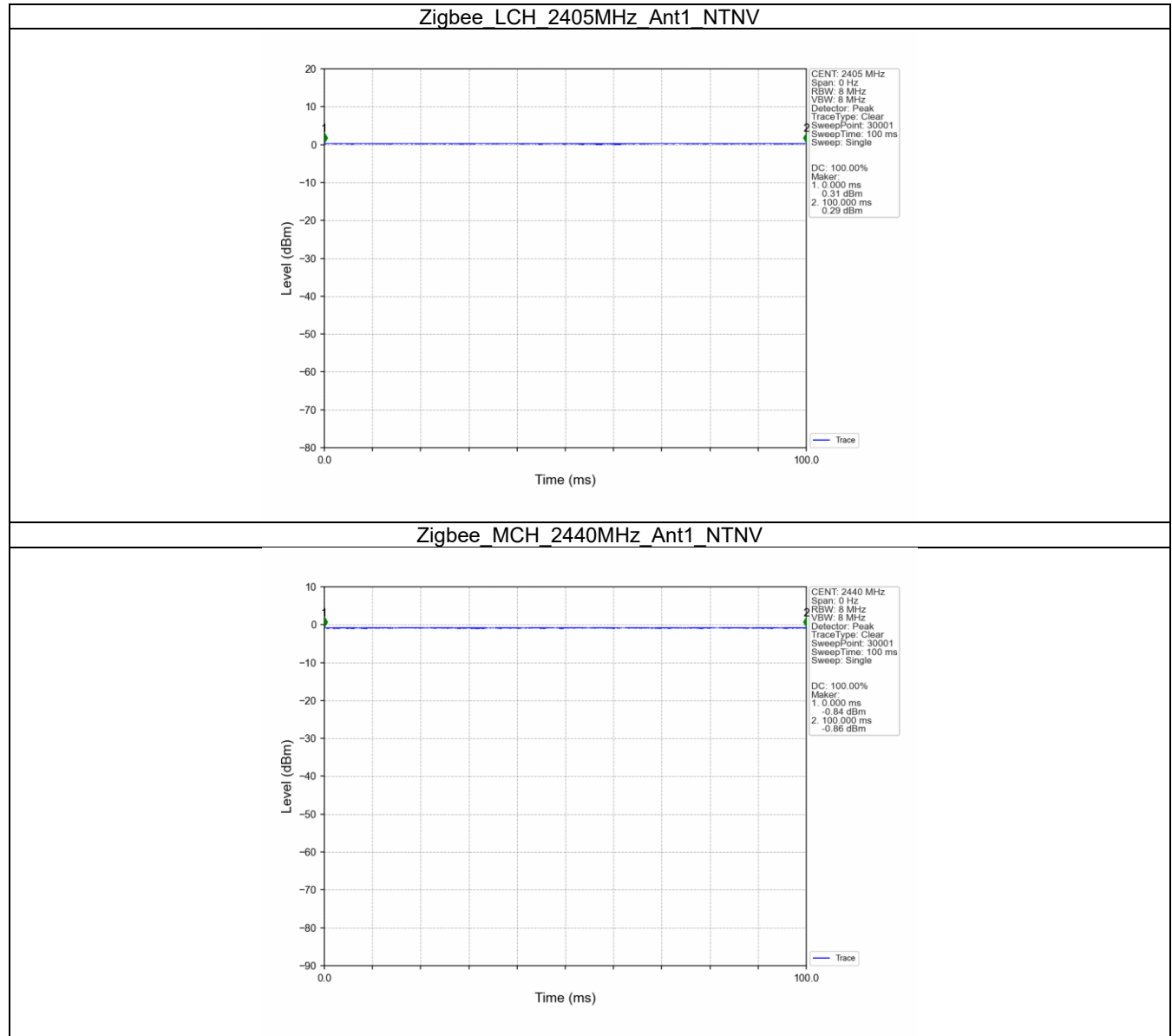
1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
Zigbee	SISO	2405	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

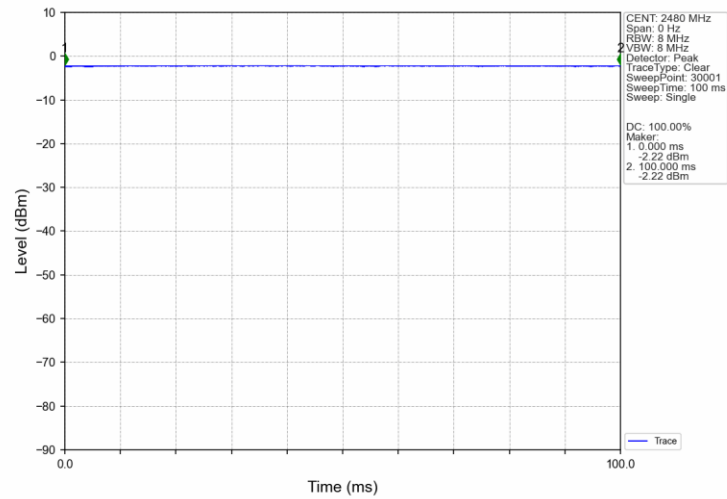
1.2 Test Graph

1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

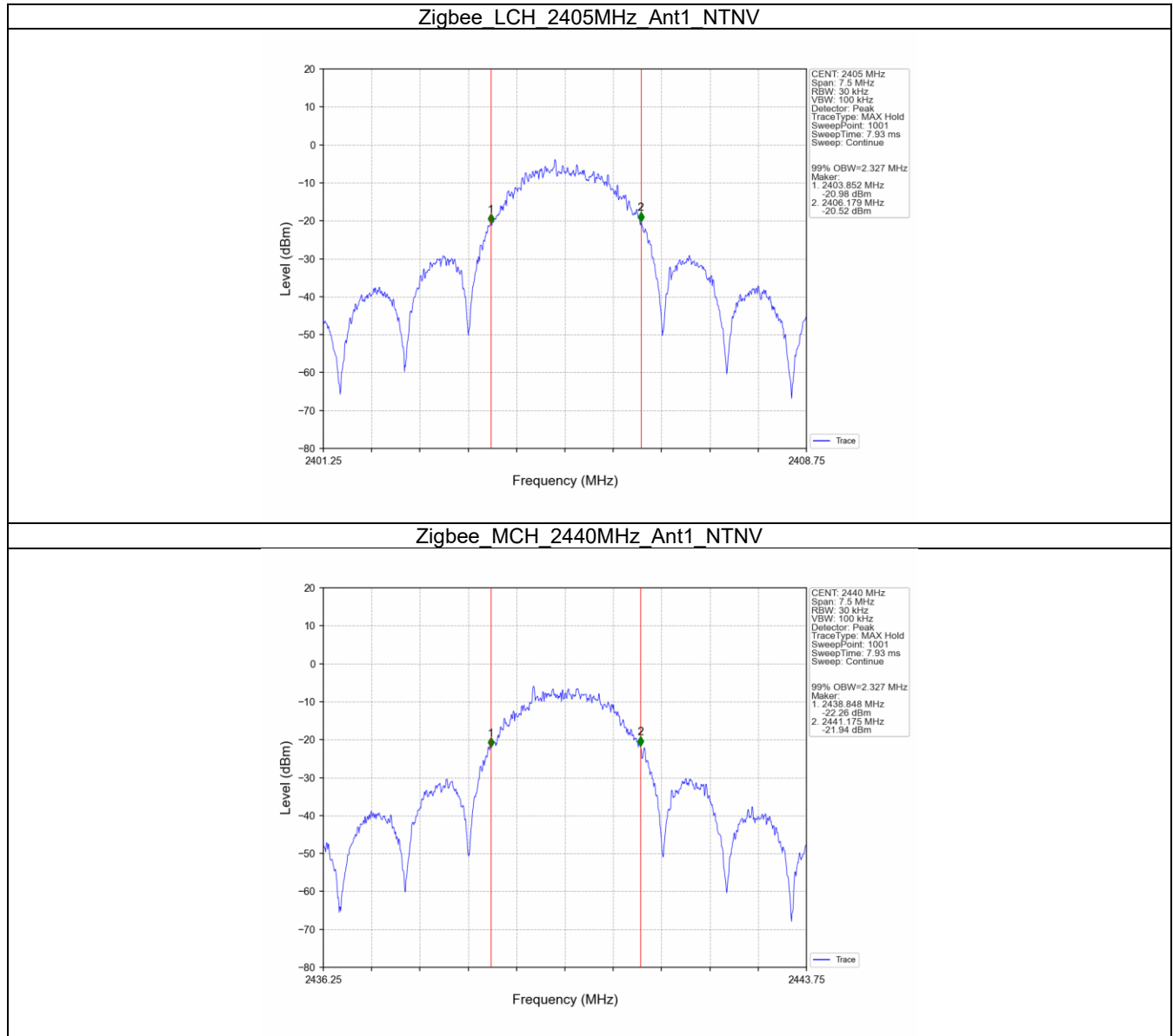
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	2.327	/	Pass
		2440	1	2.327	/	Pass
		2480	1	2.334	/	Pass

2.1.2 6dB BW

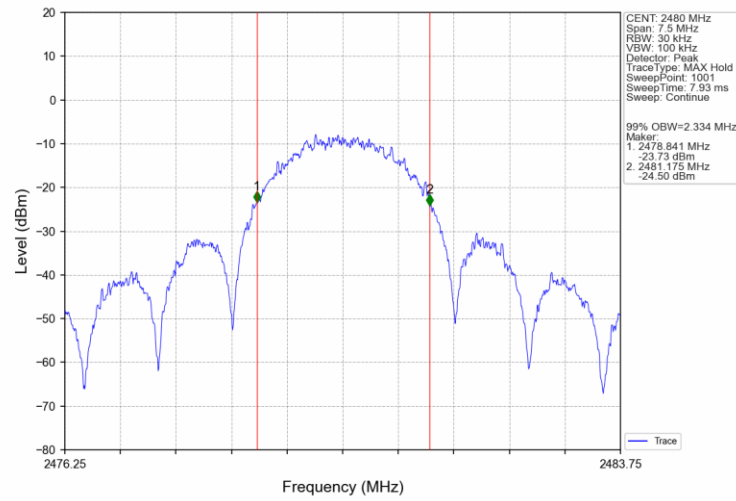
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	1.568	≥ 0.5	Pass
		2440	1	1.499	≥ 0.5	Pass
		2480	1	1.606	≥ 0.5	Pass

2.2 Test Graph

2.2.1 OBW

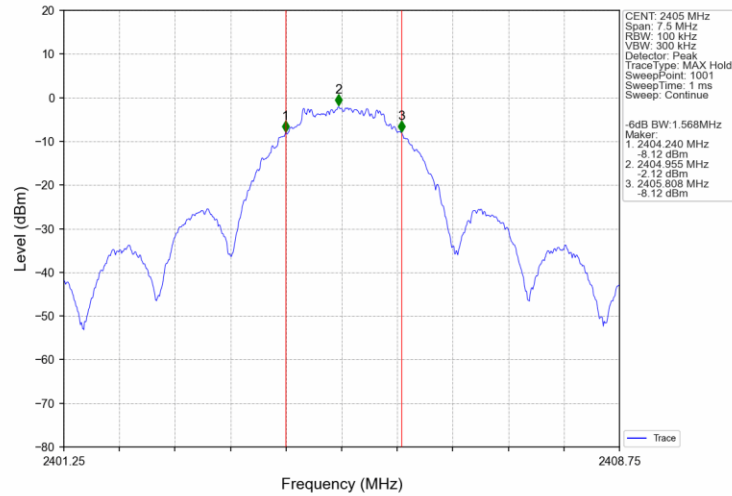


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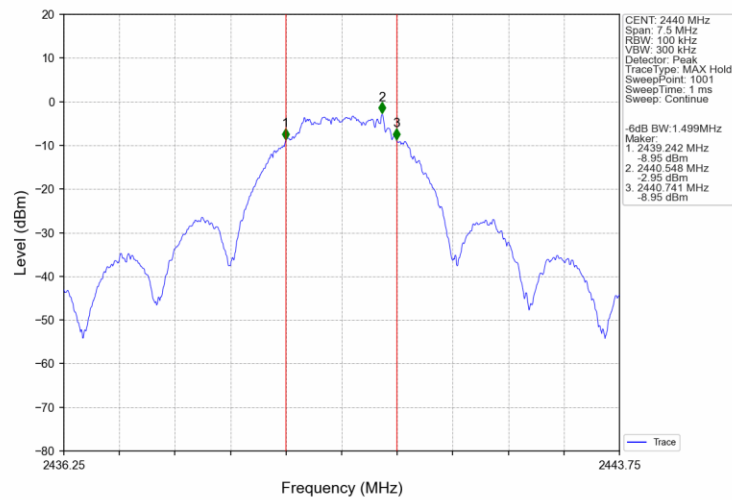


2.2.2 6dB BW

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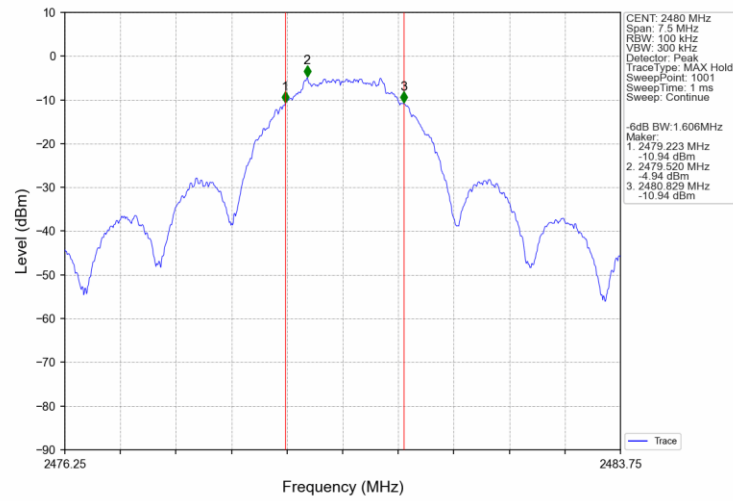


Zigbee_MCH_2440MHz_Ant1_NTN





Zigbee HCH 2480MHz Ant1 NTNV



3. Maximum Conducted Output Power

3.1 Test Result

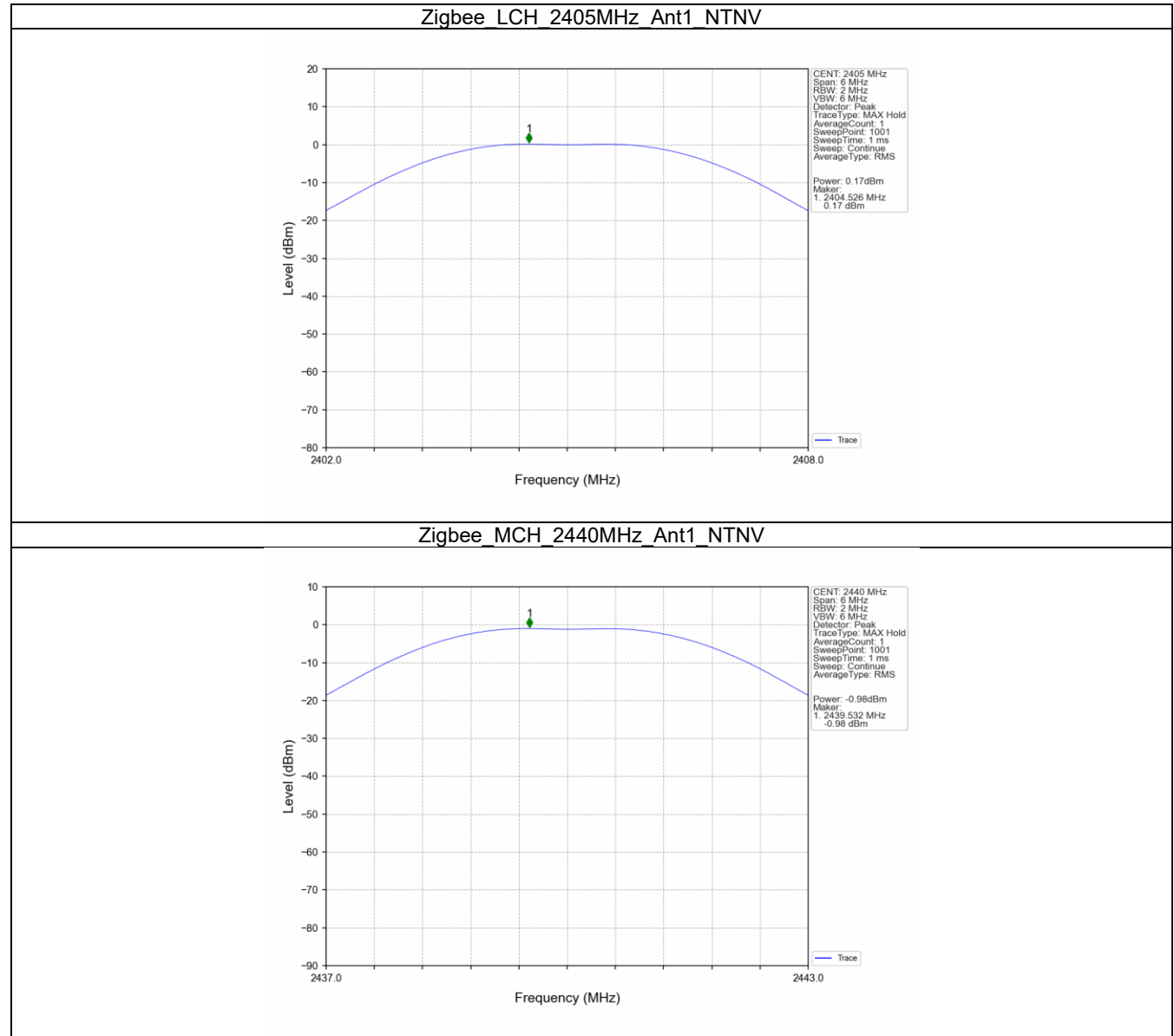
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
Zigbee	SISO	2405	0.17	≤ 30	Pass
		2440	-0.98	≤ 30	Pass
		2480	-2.39	≤ 30	Pass

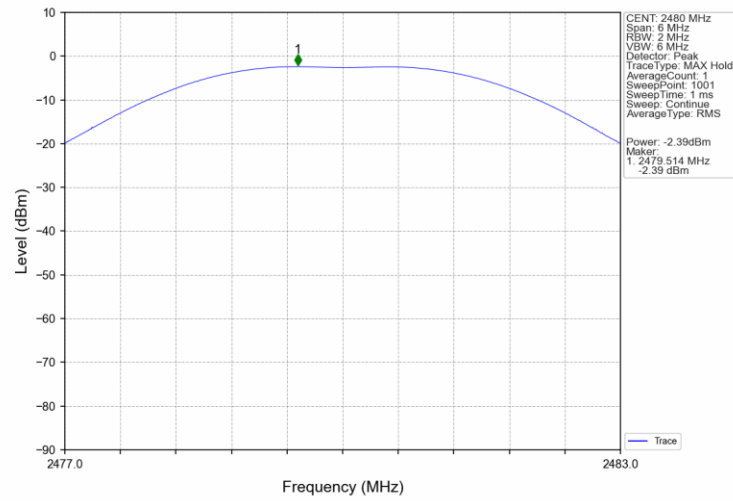
Note1: Antenna Gain: Ant1: 1.90dBi;

3.2 Test Graph

3.2.1 Power



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4. Maximum Power Spectral Density

4.1 Test Result

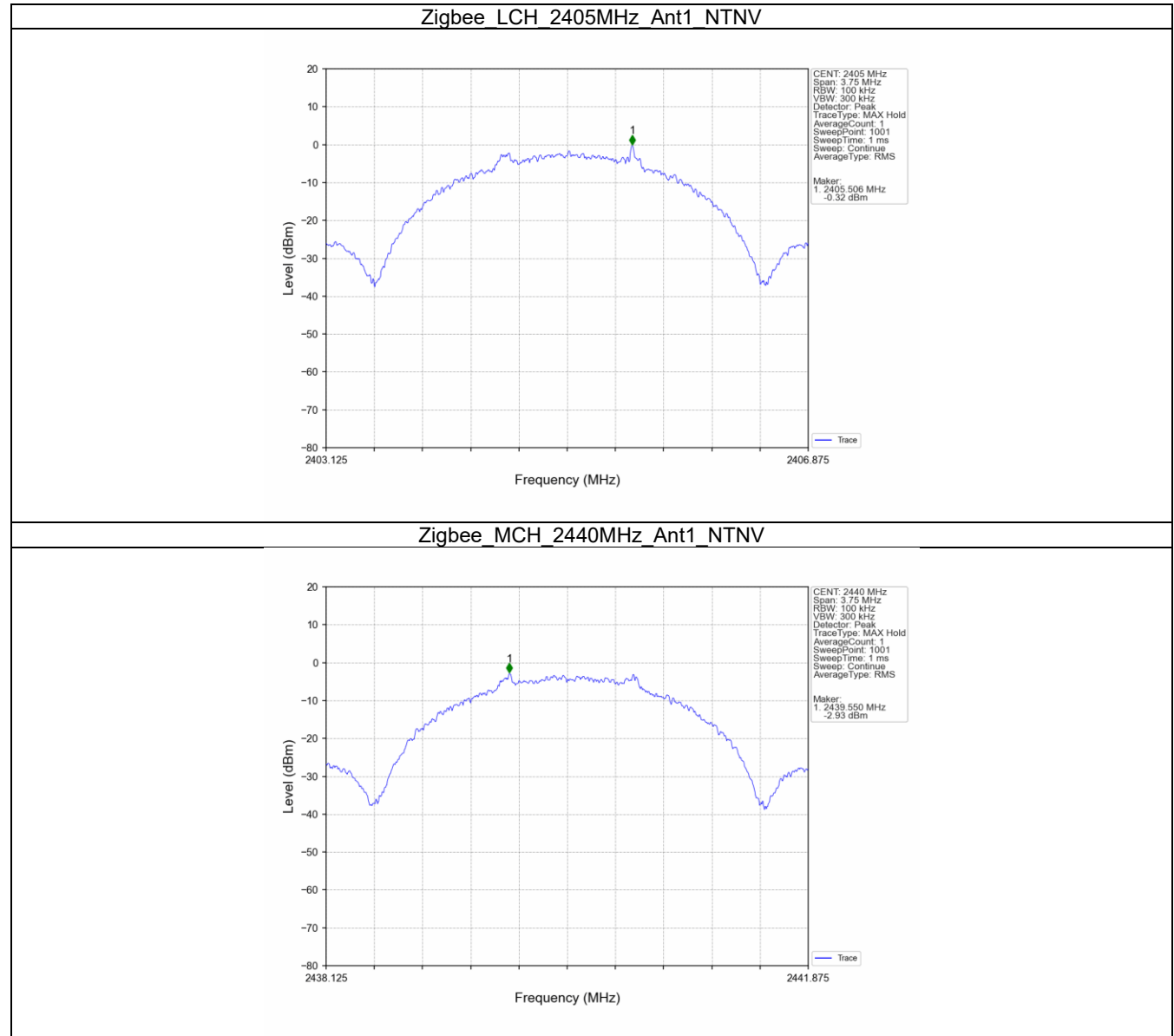
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
Zigbee	SISO	2405	-0.32dBm/100kHz	<=8	Pass
		2440	-2.93dBm/100kHz	<=8	Pass
		2480	-4.53dBm/100kHz	<=8	Pass

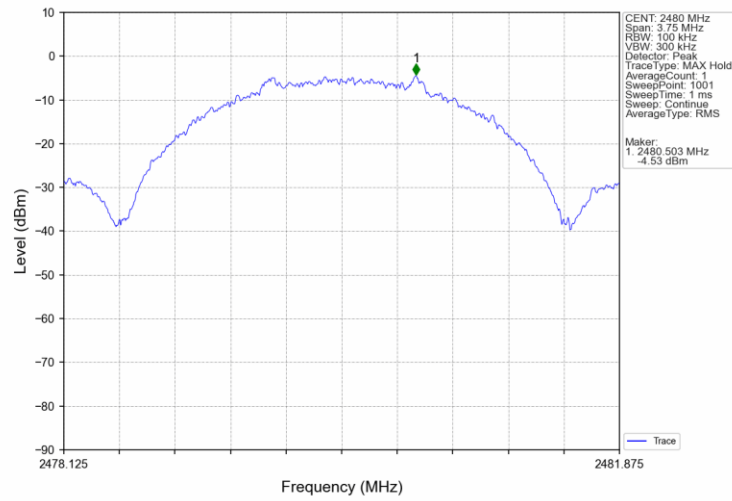
Note1: Antenna Gain: Ant1: 1.90dBi;

4.2 Test Graph

4.2.1 PSD



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

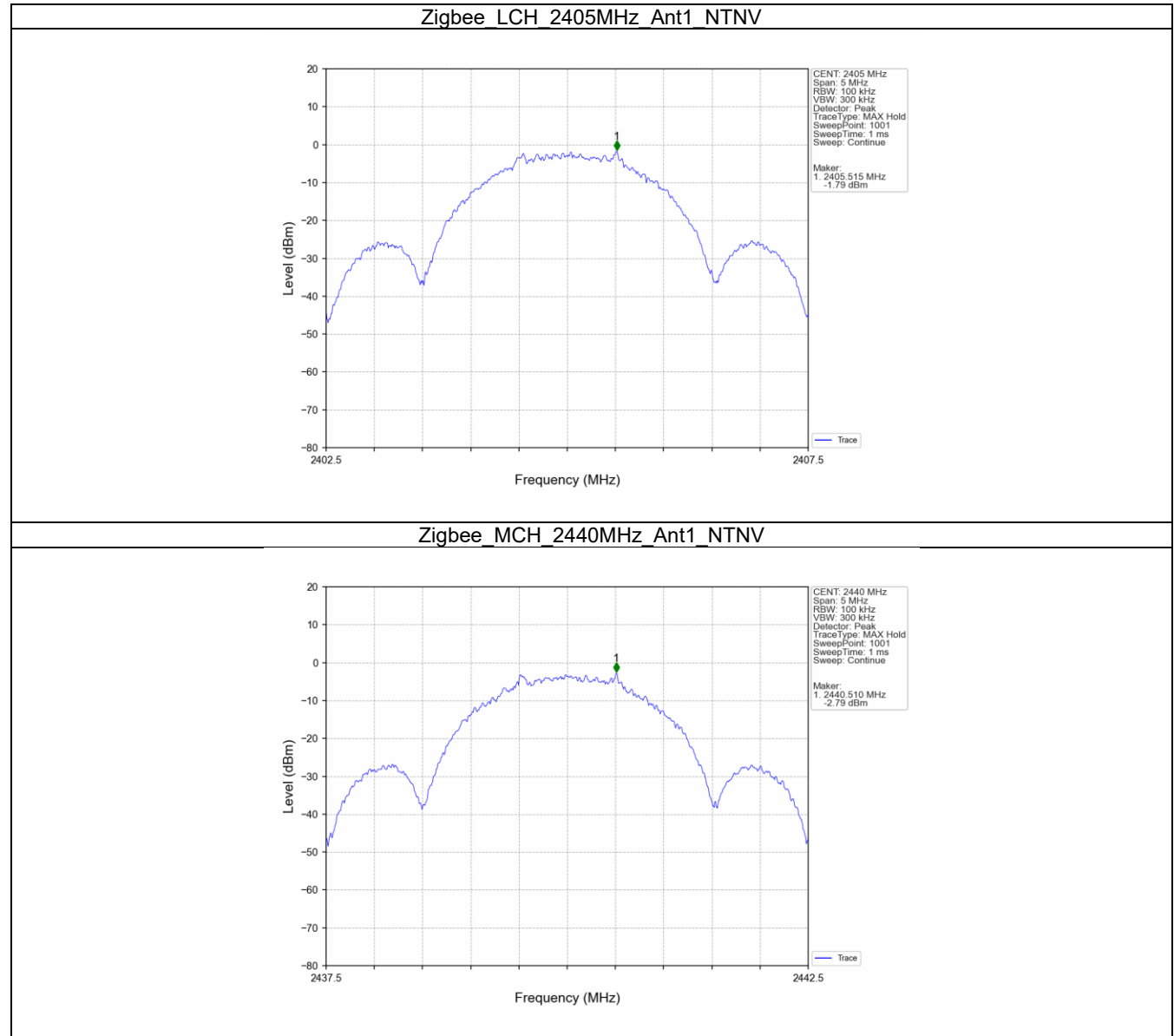
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
Zigbee	SISO	2405	1	-1.79
		2440	1	-2.79
		2480	1	-4.48

5.1.2 CSE

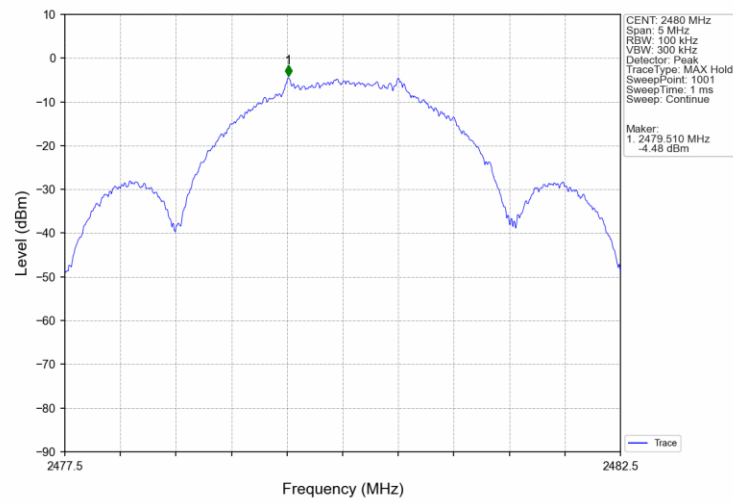
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
Zigbee	SISO	2405	1	-1.79	-21.79	Pass
		2440	1	-2.79	-22.79	Pass
		2480	1	-4.48	-24.48	Pass

5.2 Test Graph

5.2.1 Ref

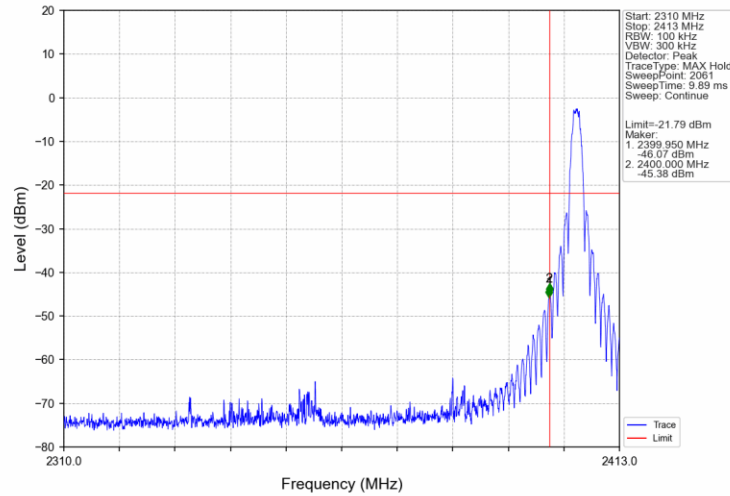


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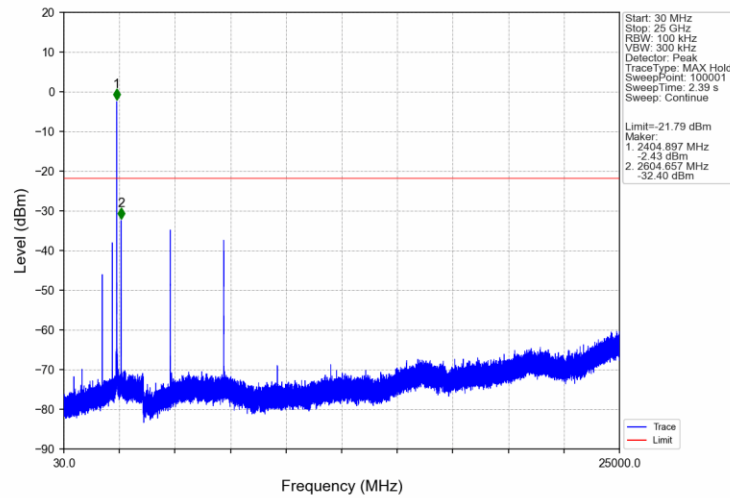


5.2.2 CSE

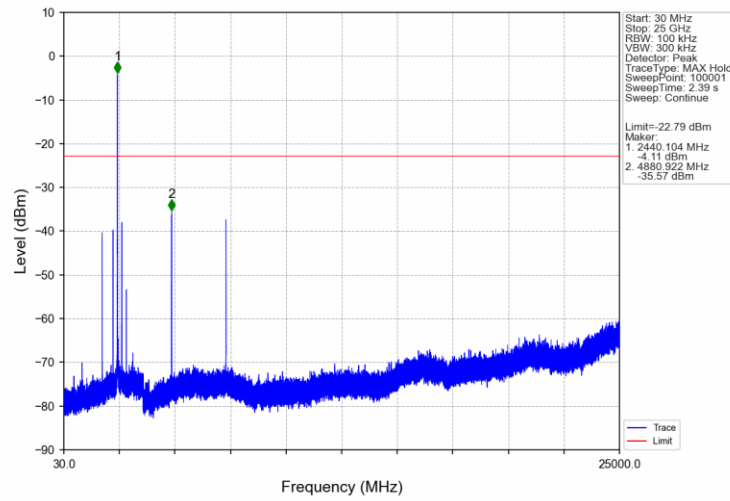
Zigbee_LCH_2405MHz_Ant1_NTNV



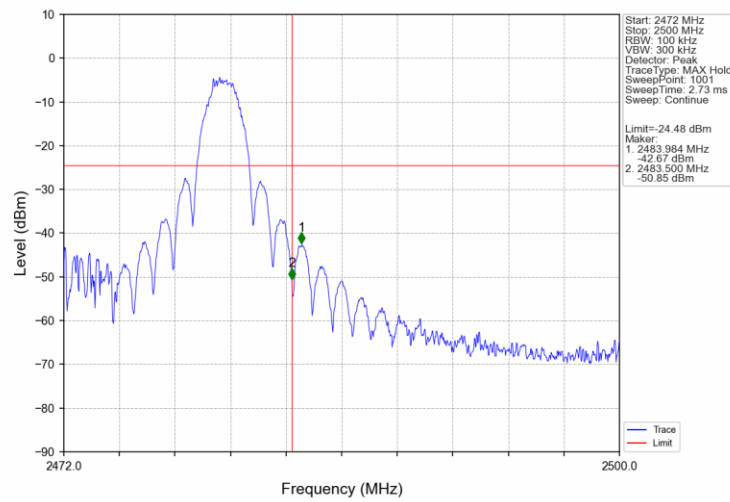
Zigbee_LCH_2405MHz_Ant1_NTNV



Zigbee_MCH_2440MHz_Ant1_NTNV

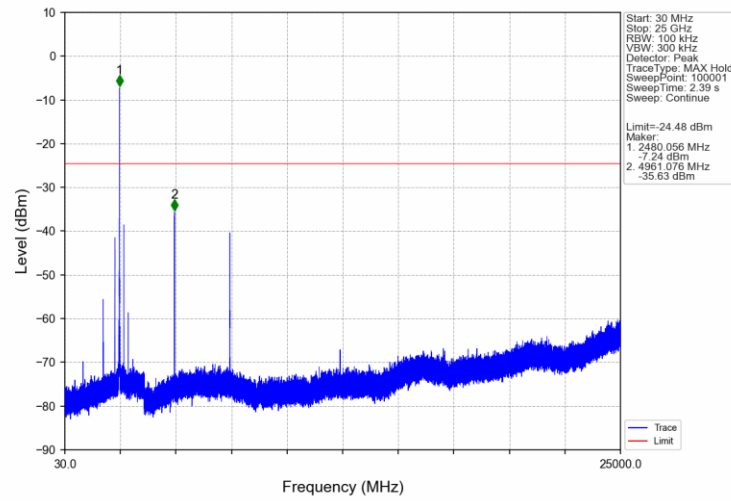


Zigbee_HCH_2480MHz_Ant1_NTNV





Zigbee HCH 2480MHz Ant1 NTNV



***** End of Report *****