

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600004302

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7.8 Conducted Band Edges Measurement

Test Requirement: 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 6.10.4
 Test Engineer: Ian Li Hu

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 45.3 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(Left buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(Right buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	11	TX mode(Right buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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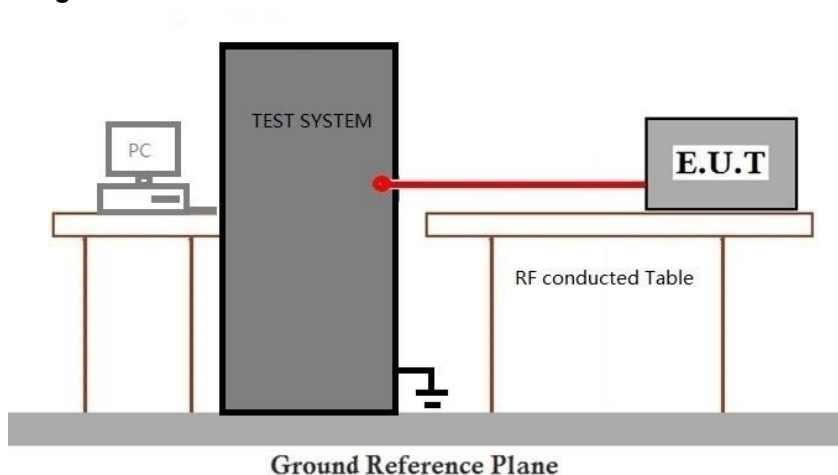
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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 11.11
 Test Engineer: Ian Li Hu

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.9.1 E.U.T. Operation

Operating Environment:

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7.9.2 Test Mode Description

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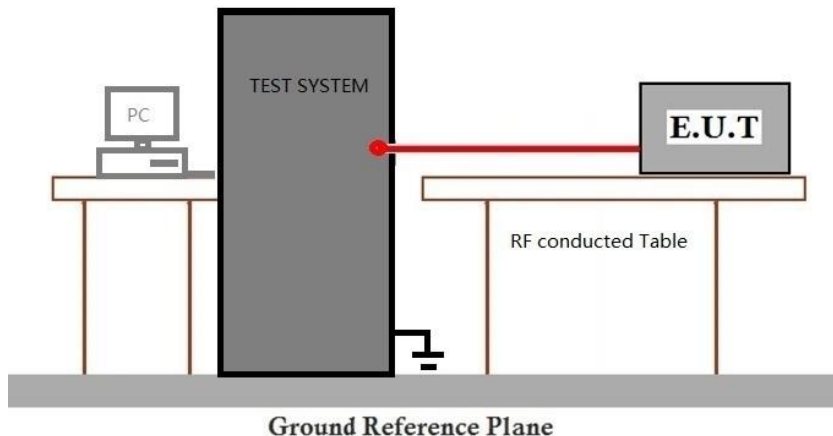
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Setup Photo for FYCR2606000043AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2606000043AT



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10 Appendix

For left earbuds:

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 (%)
1M	SISO	2402	0.397	0.625	63.52	1.97	0.00
		2440	0.398	0.625	63.68	1.96	0.00
		2480	0.398	0.625	63.68	1.96	0.00
2M	SISO	2404	0.212	0.625	33.92	4.70	0.02
		2440	0.212	0.625	33.92	4.70	0.00
		2478	0.212	0.625	33.92	4.70	0.02



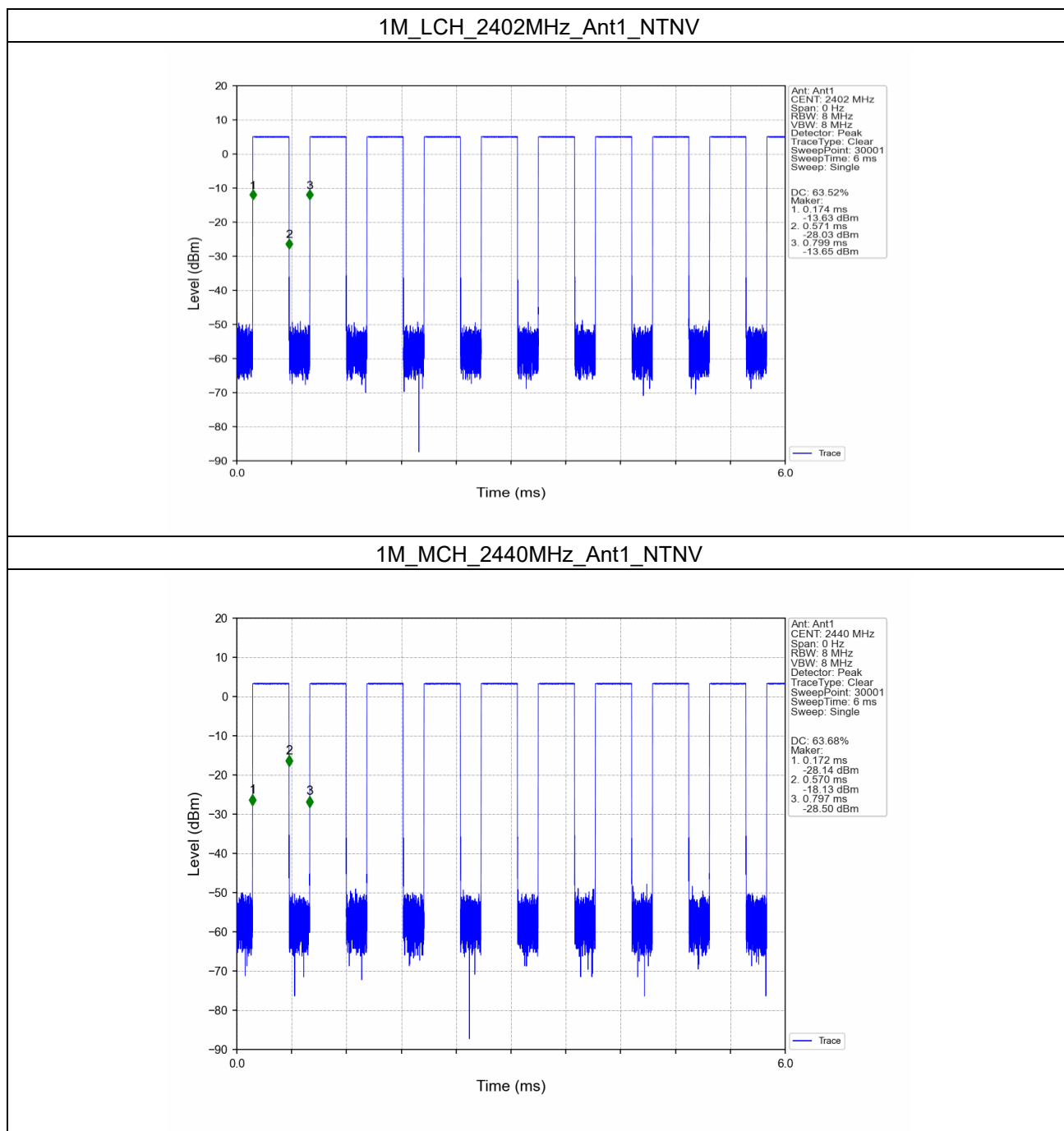
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1.2 Test Graph

1.2.1 Ant1



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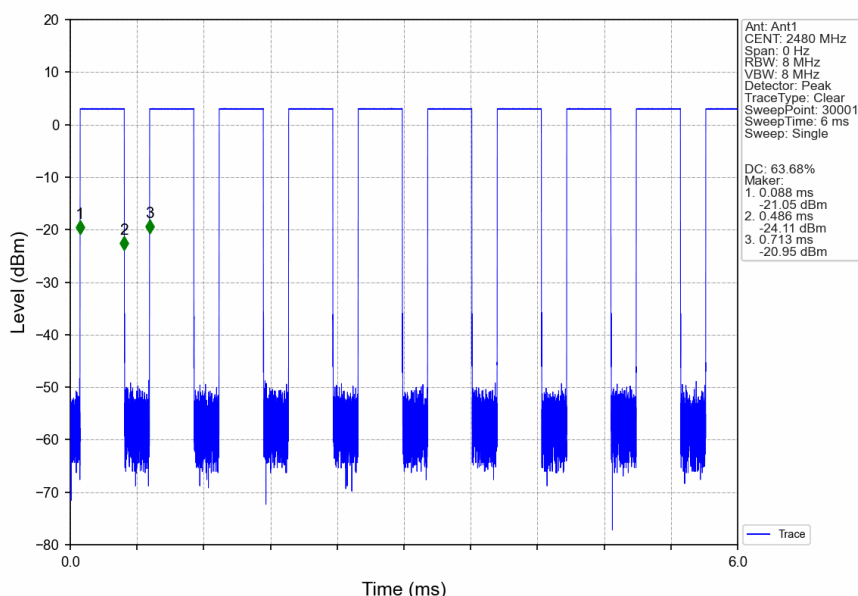
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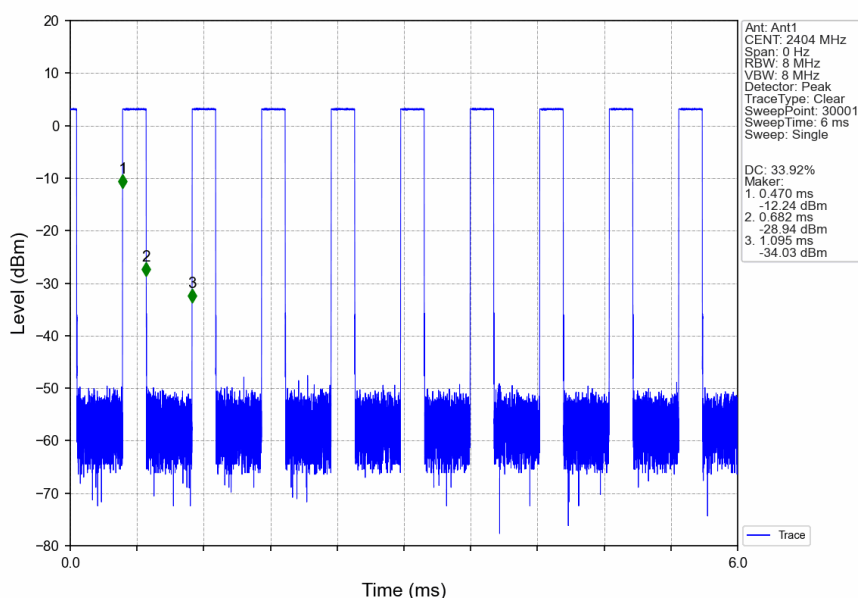
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2404MHz_Ant1_NTNV



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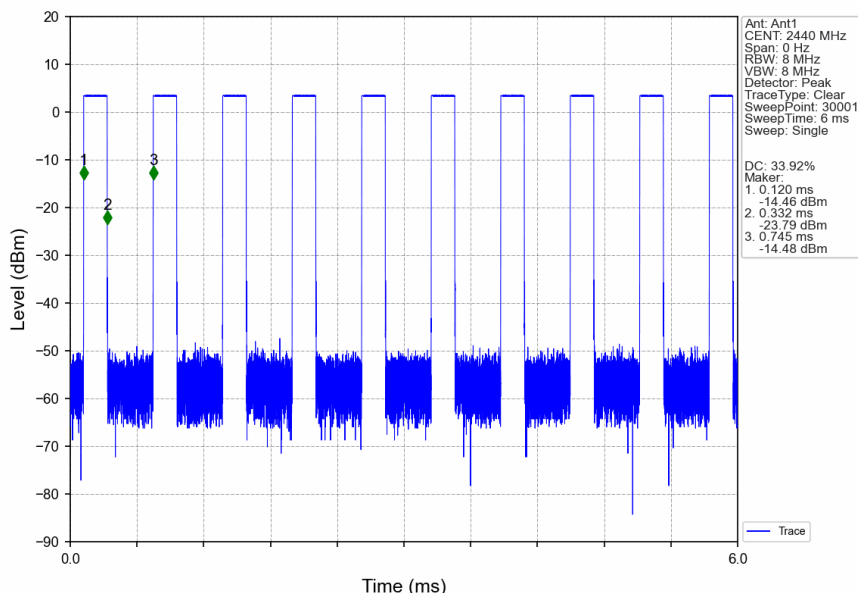
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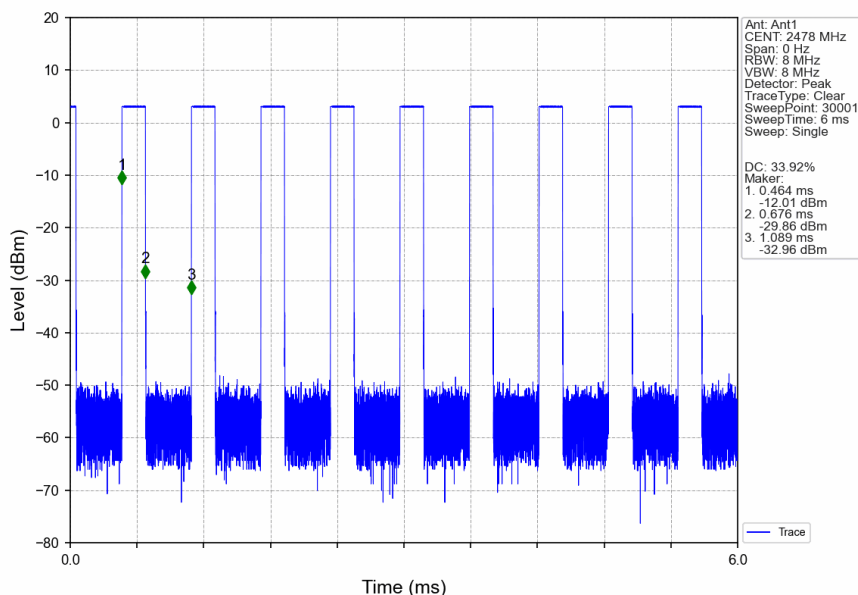
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2478MHz_Ant1_NTNV



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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	
1M	SISO	2402	1	1.022	/	Pass
		2440	1	1.035	/	Pass
		2480	1	1.042	/	Pass
2M	SISO	2404	1	2.046	/	Pass
		2440	1	2.040	/	Pass
		2478	1	2.058	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.663	≥ 0.5	Pass
		2440	1	0.657	≥ 0.5	Pass
		2480	1	0.654	≥ 0.5	Pass
2M	SISO	2404	1	0.954	≥ 0.5	Pass
		2440	1	1.138	≥ 0.5	Pass
		2478	1	1.141	≥ 0.5	Pass

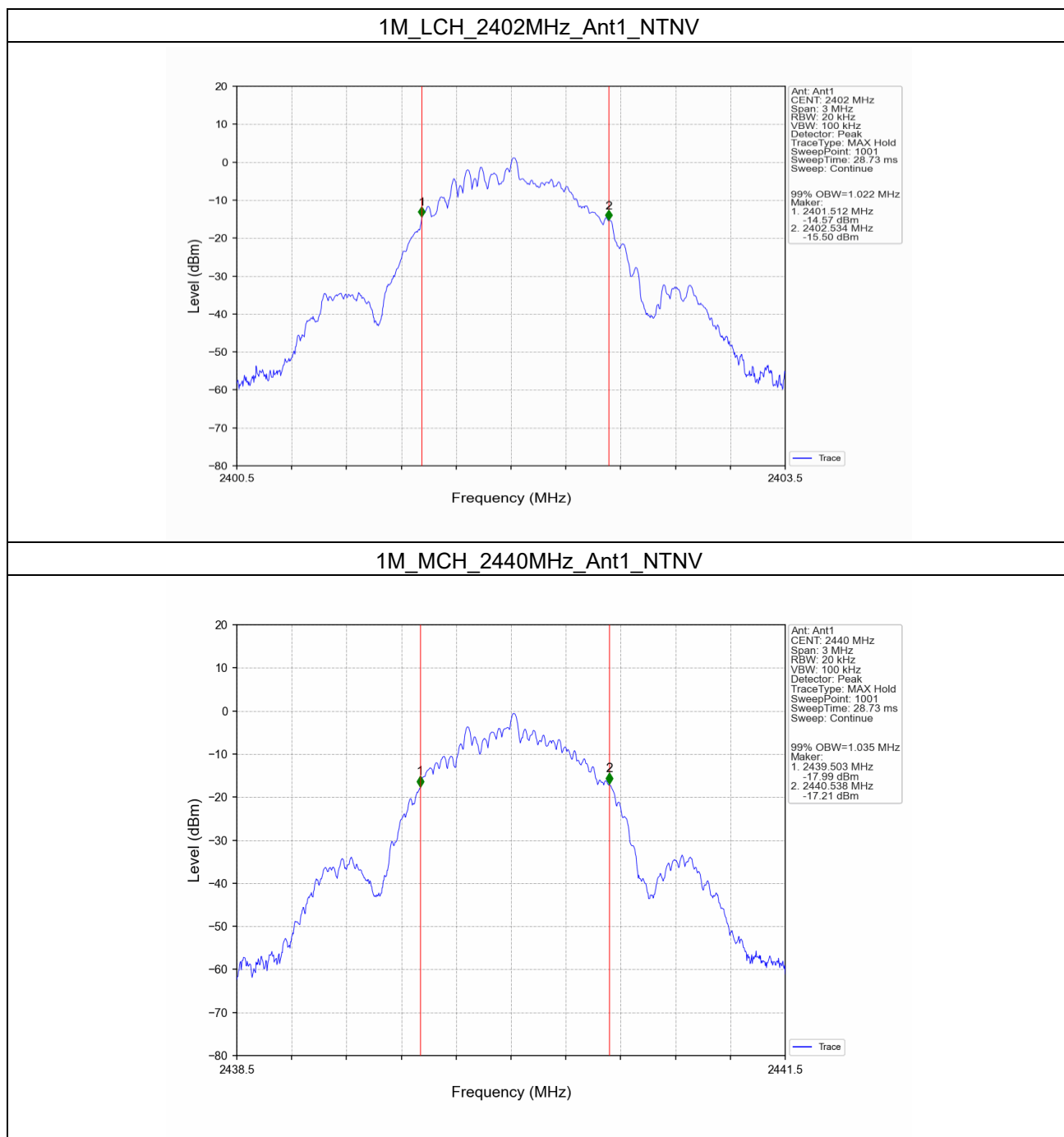


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2.2 Test Graph

2.2.1 OBW



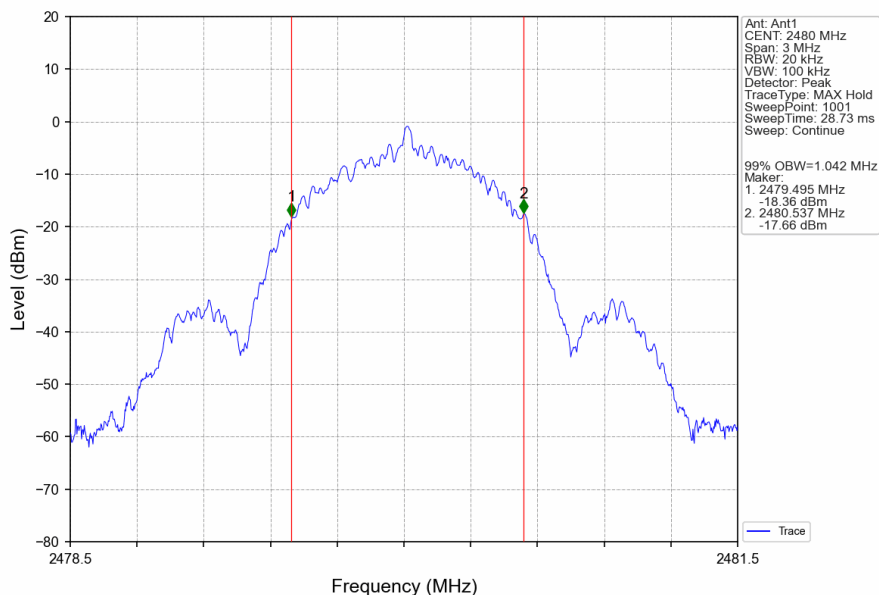
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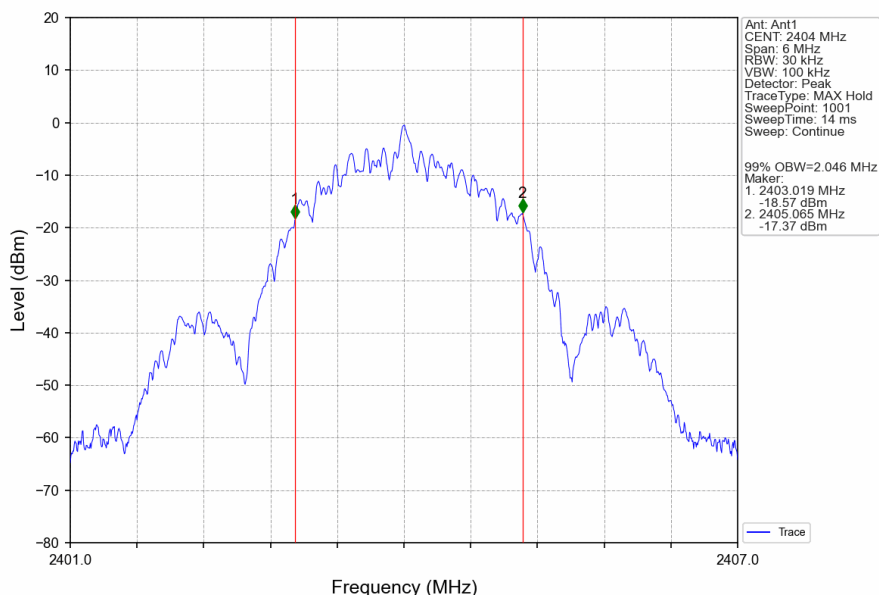
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2M_LCH_2404MHz_Ant1_NTNV



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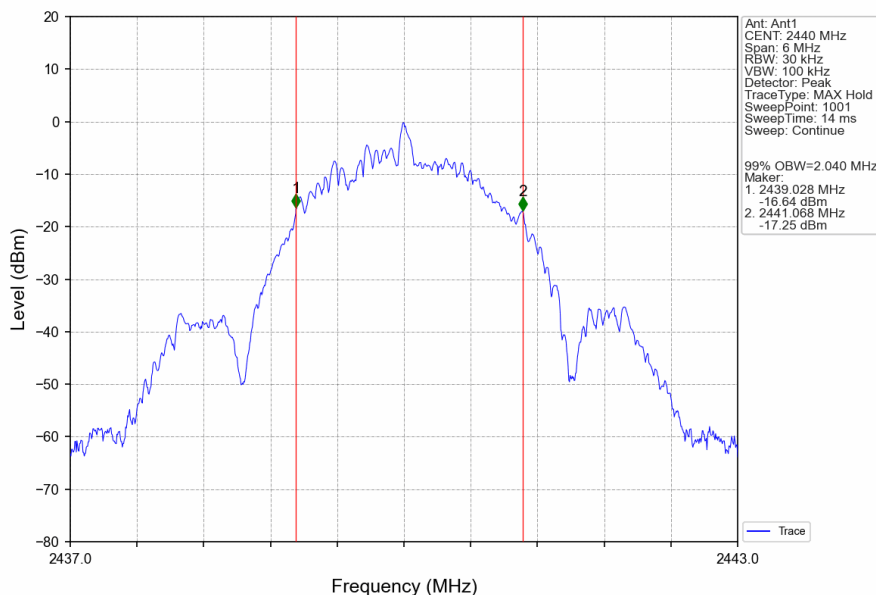
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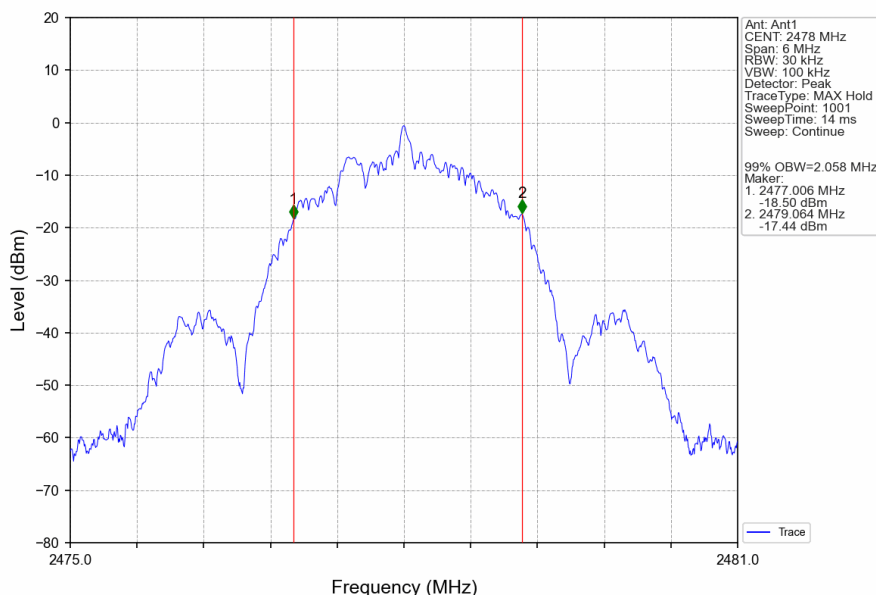
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2478MHz_Ant1_NTNV

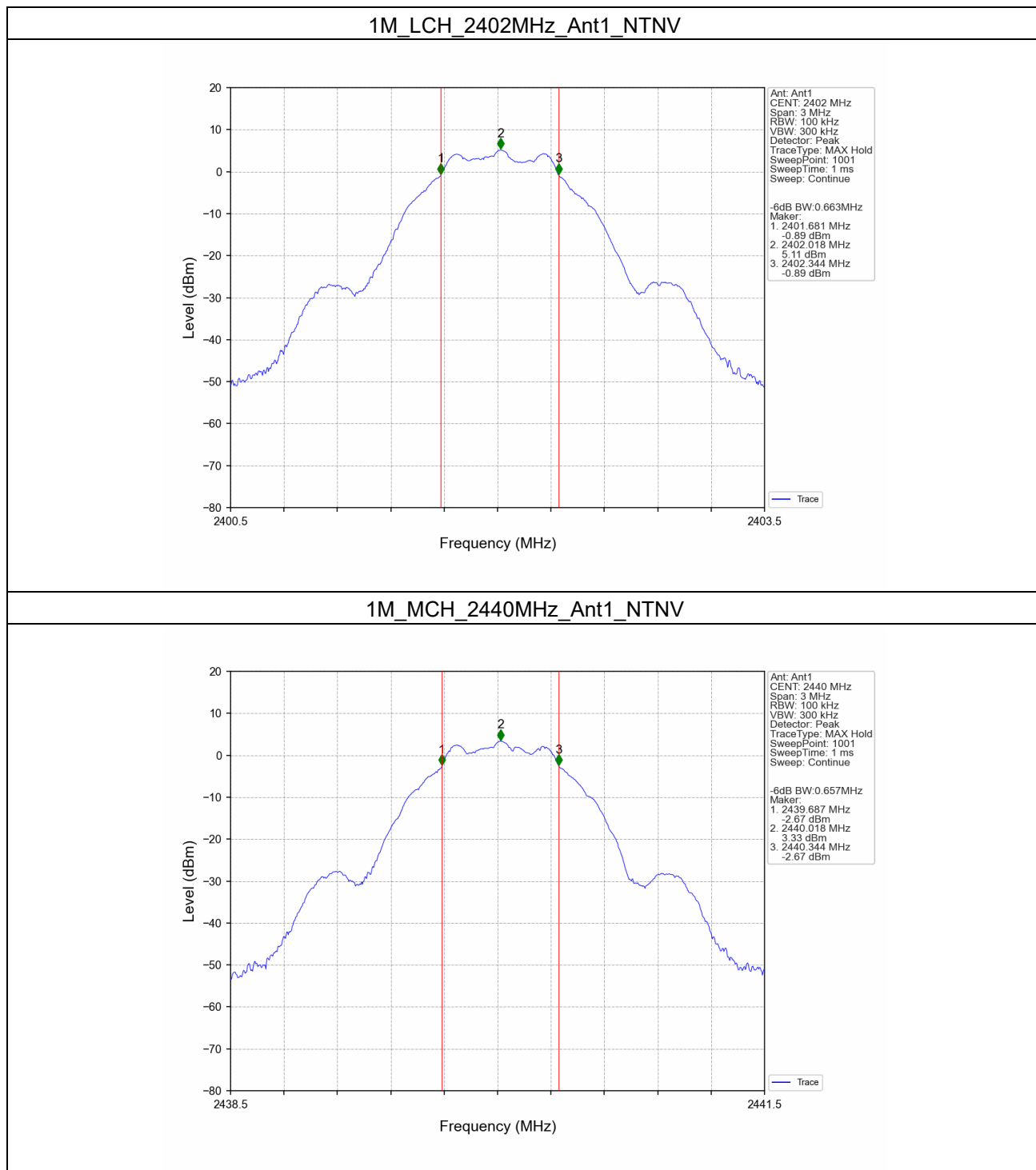


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2.2.2 6dB BW



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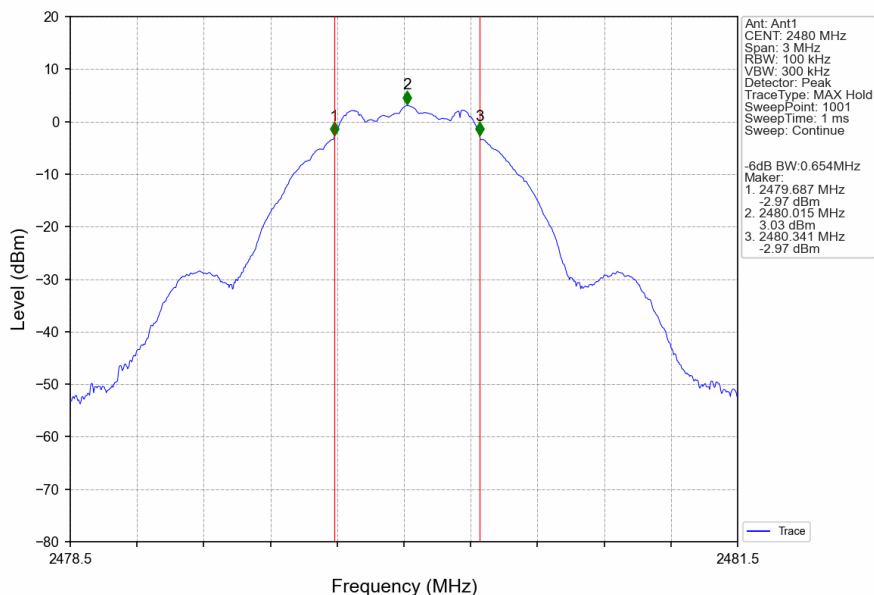
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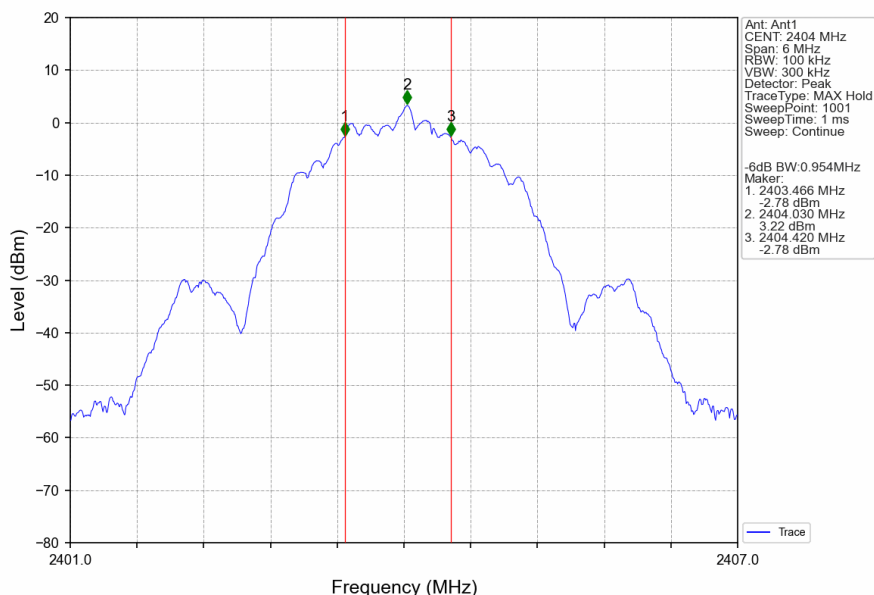
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2404MHz_Ant1_NTNV



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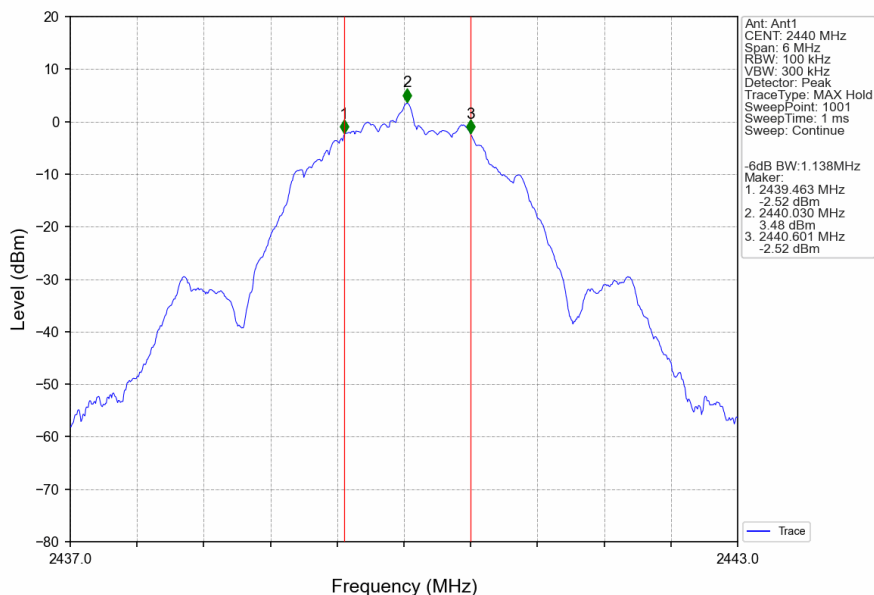
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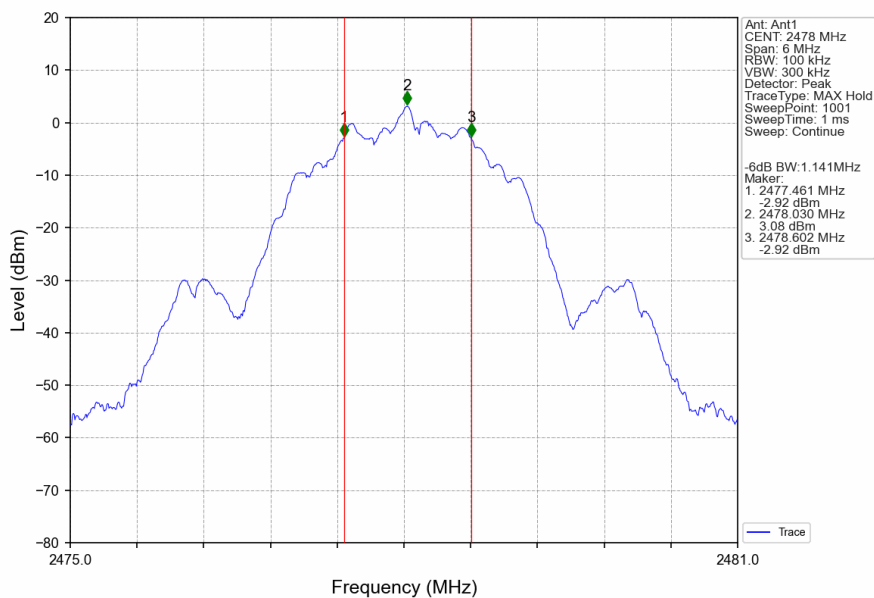
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2478MHz_Ant1_NTNV



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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	
1M	SISO	2402	3.81	<=30	Pass
		2440	4.12	<=30	Pass
		2480	3.77	<=30	Pass
2M	SISO	2404	4.16	<=30	Pass
		2440	4.50	<=30	Pass
		2478	4.19	<=30	Pass

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)	
1M	SISO	2402	-11.66dBm/3kHz	<=8	Pass
		2440	-10.76dBm/3kHz	<=8	Pass
		2480	-11.04dBm/3kHz	<=8	Pass
2M	SISO	2404	-13.67dBm/3kHz	<=8	Pass
		2440	-12.31dBm/3kHz	<=8	Pass
		2478	-14.28dBm/3kHz	<=8	Pass



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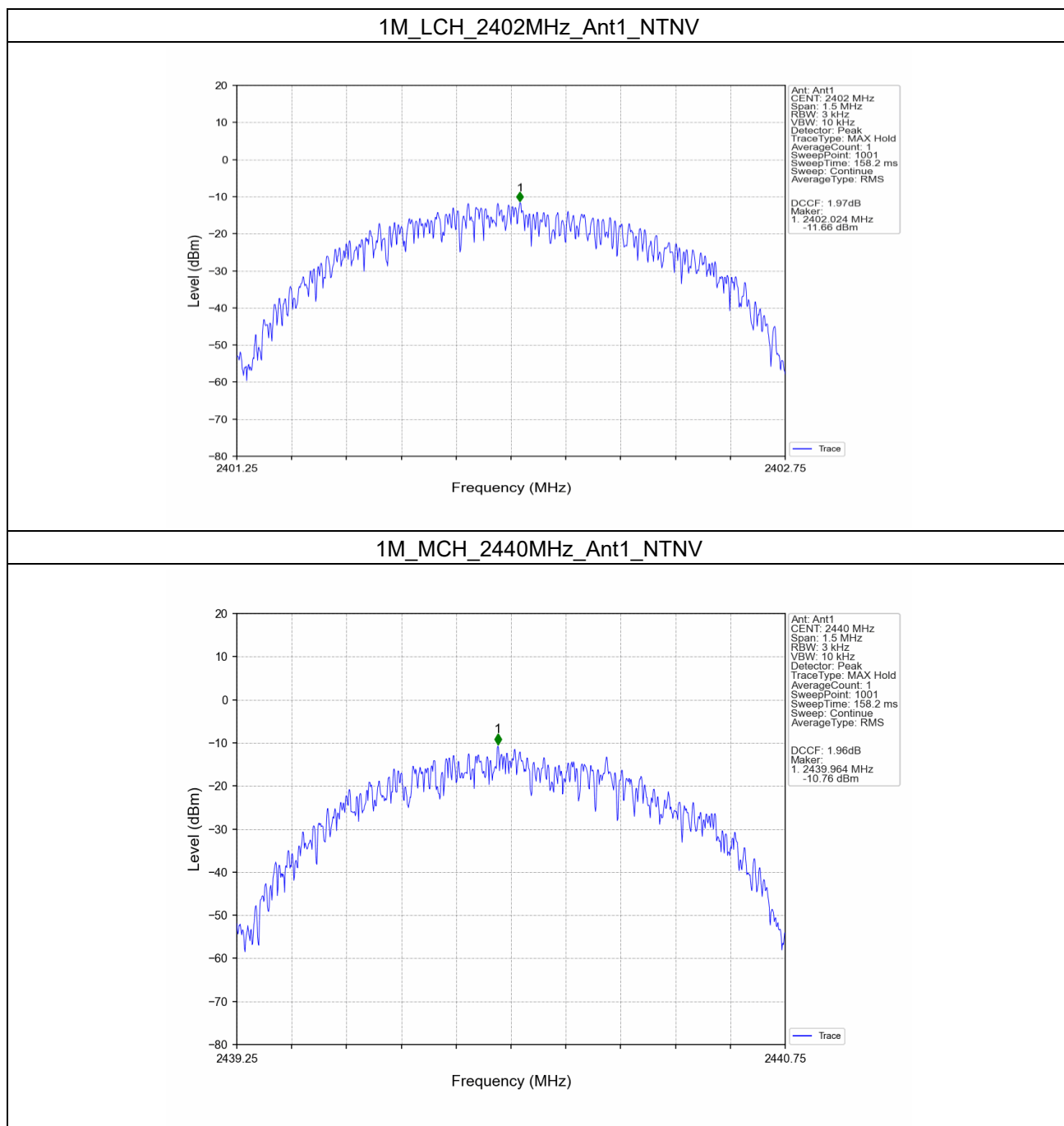
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4.2 Test Graph

4.2.1 PSD



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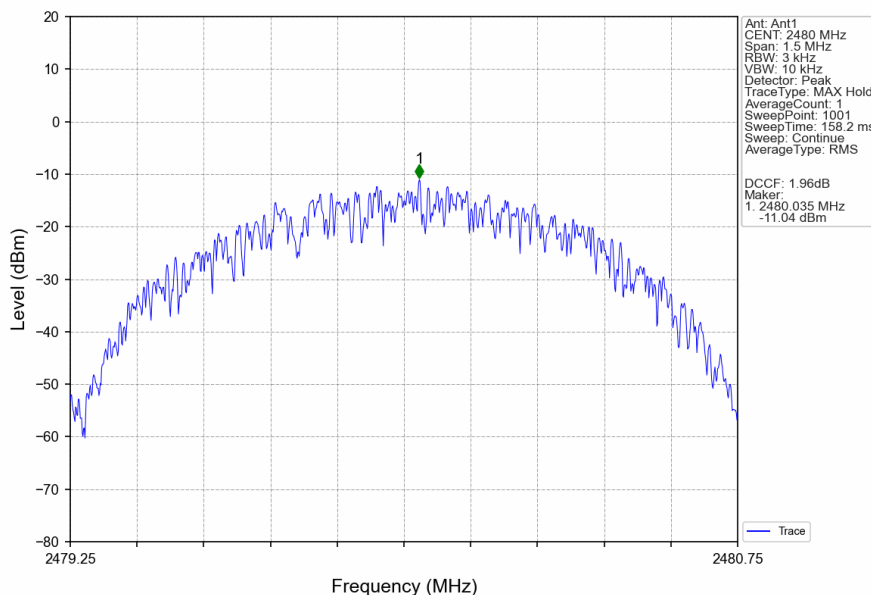
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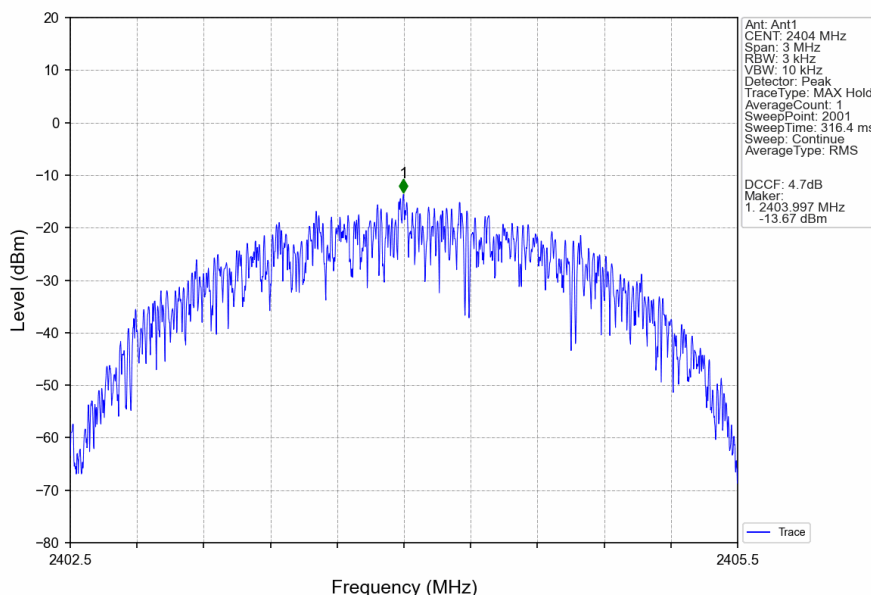
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1M_HCH_2480MHz_Ant1_NTNV



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