ANNEX D TEST DATA

For

Project No.:	8328EU121205W
Client:	Miotone Technology CO.,LTD
Product Description:	Dash cam
Model No.:	Mirror 1
FCC ID:	2BODW-MIRROR
Technology:	Bluetooth BLE
Test Engineer:	Mikey zhu
Test Date:	2025-04-07

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass

1. Duty Cycle

1.1 Test Result

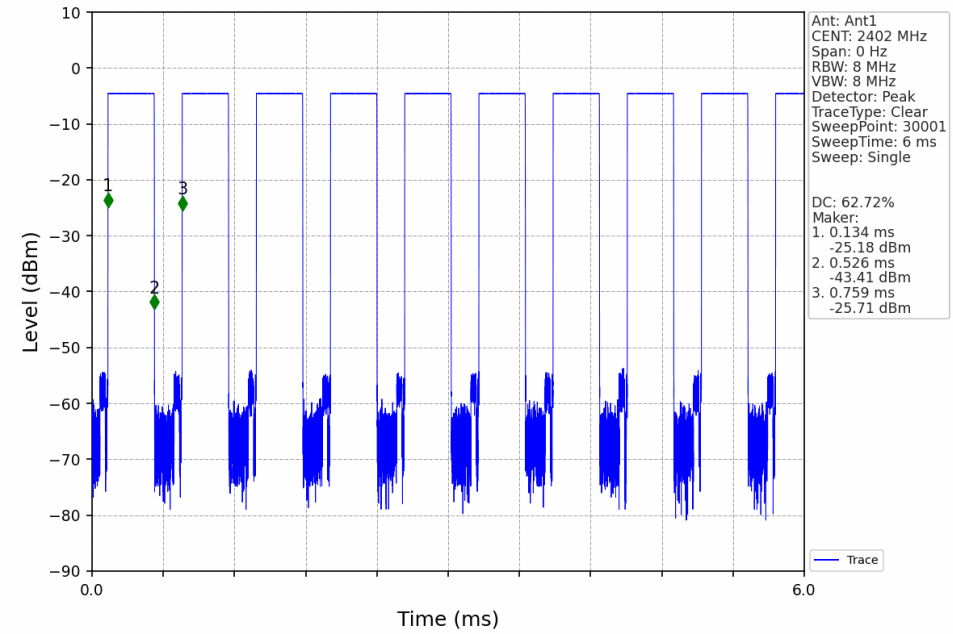
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.392	0.625	62.72	2.03	0.00
		2440	0.392	0.625	62.72	2.03	0.03
		2480	0.392	0.625	62.72	2.03	0.03

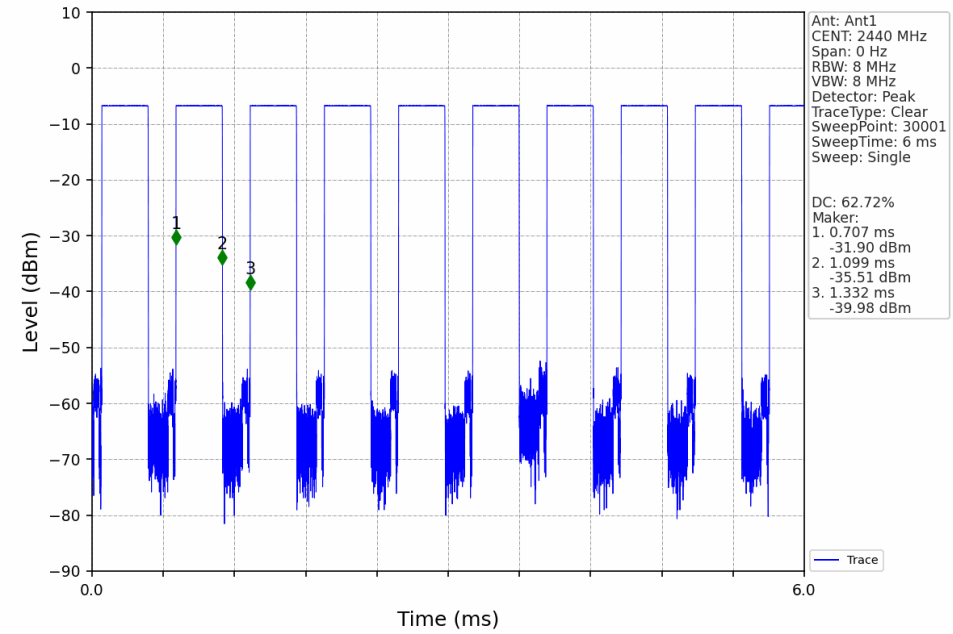
1.2 Test Graph

1.2.1 Ant1

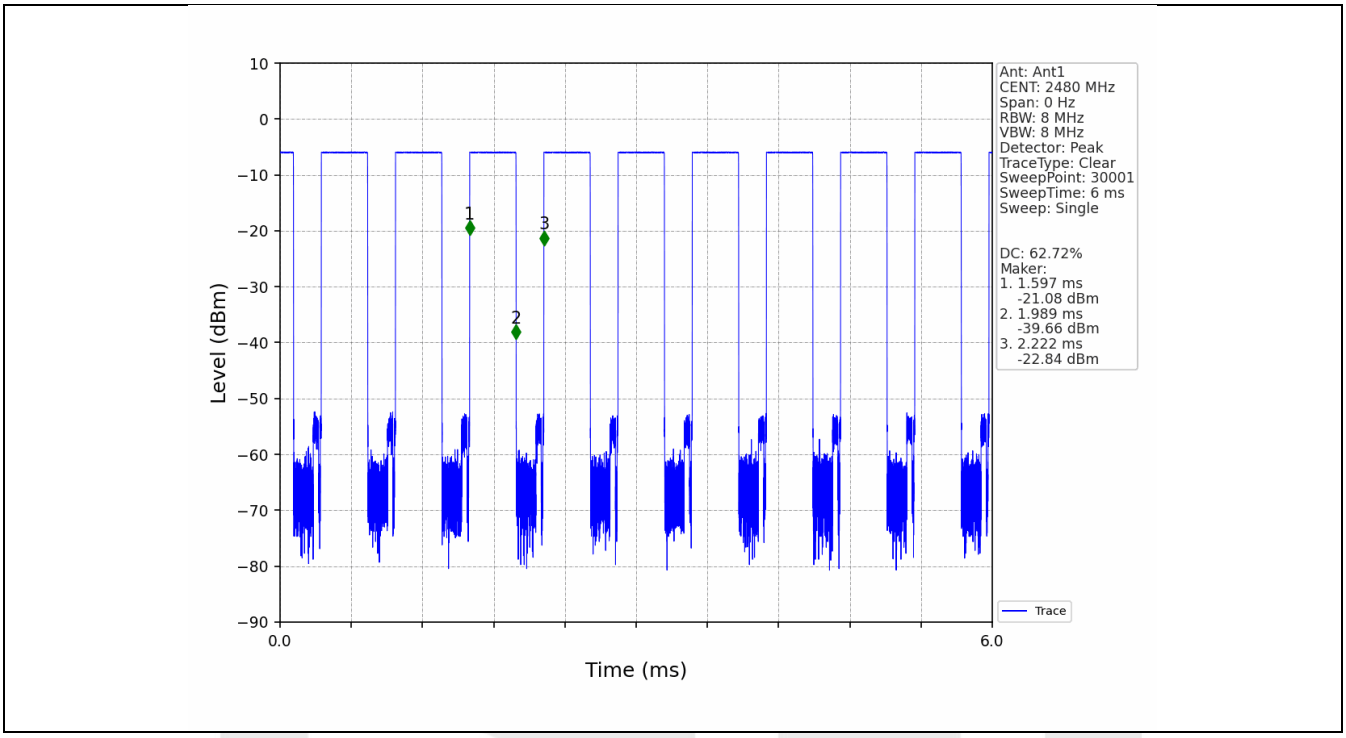
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV


Ant: Ant1
CENT: 2480 MHz
Span: 0 Hz
RBW: 8 MHz
VBW: 8 MHz
Detector: Peak
TraceType: Clear
SweepPoint: 30001
SweepTime: 6 ms
Sweep: Single
DC: 62.72%
Maker:
1. 1.597 ms
-21.08 dBm
2. 1.989 ms
-39.66 dBm
3. 2.222 ms
-22.84 dBm
Trace
Level (dBm)
Time (ms)
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
0.0
6.0
1
2
3

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	1.047	/	Pass
		2440	1	1.045	/	Pass
		2480	1	1.046	/	Pass

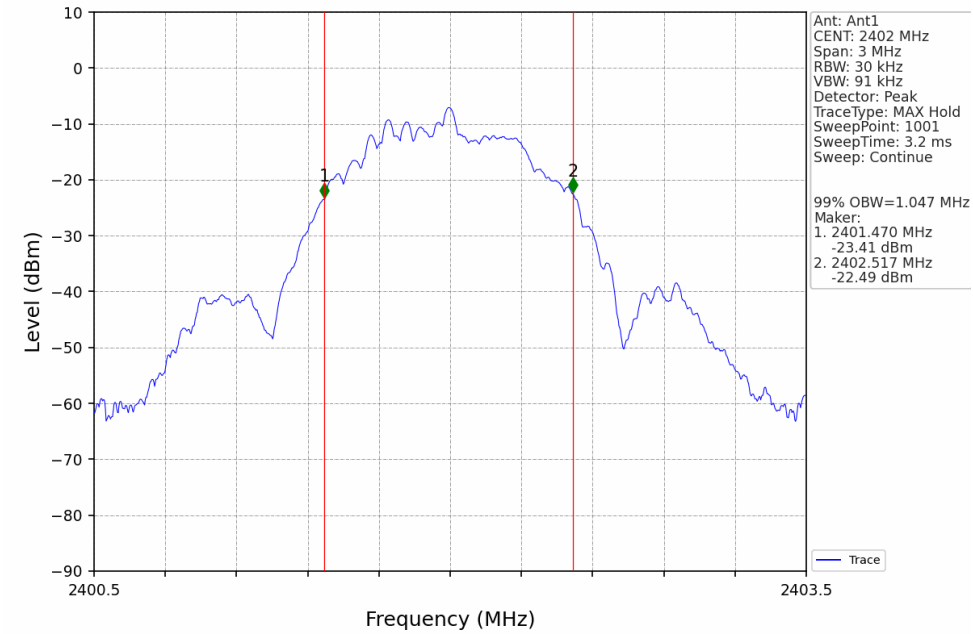
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.671	>=0.5	Pass
		2440	1	0.676	>=0.5	Pass
		2480	1	0.679	>=0.5	Pass

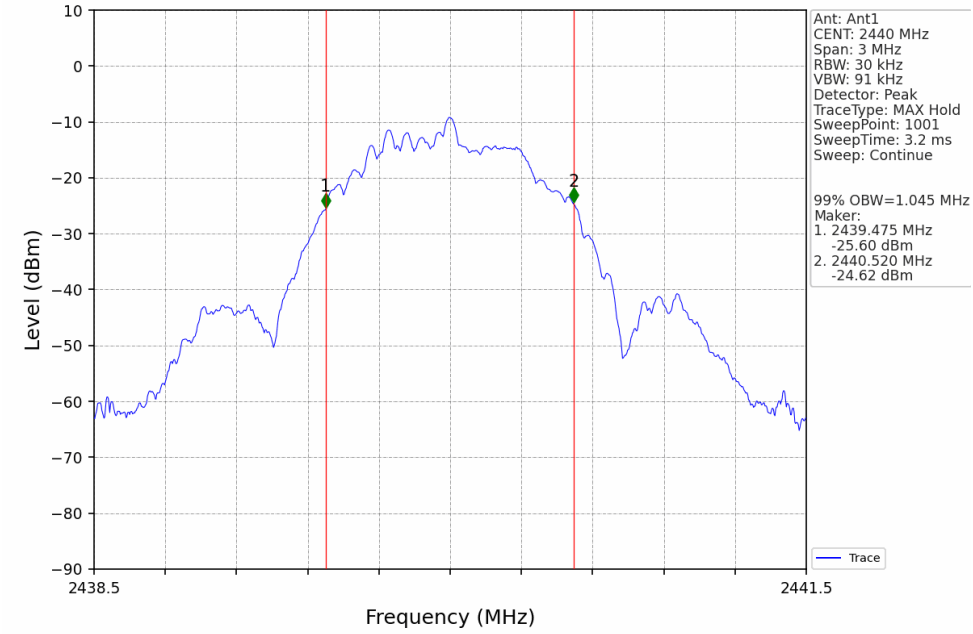
2.2 Test Graph

2.2.1 OBW

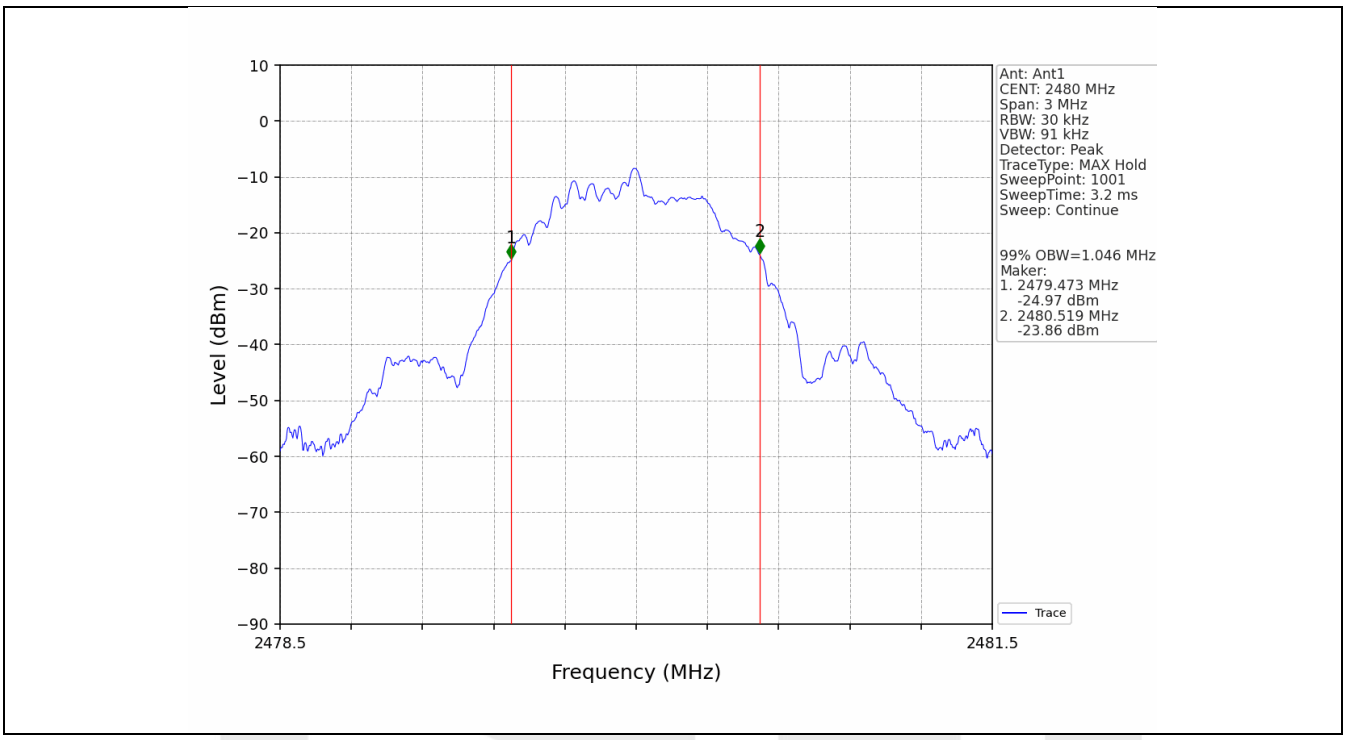
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

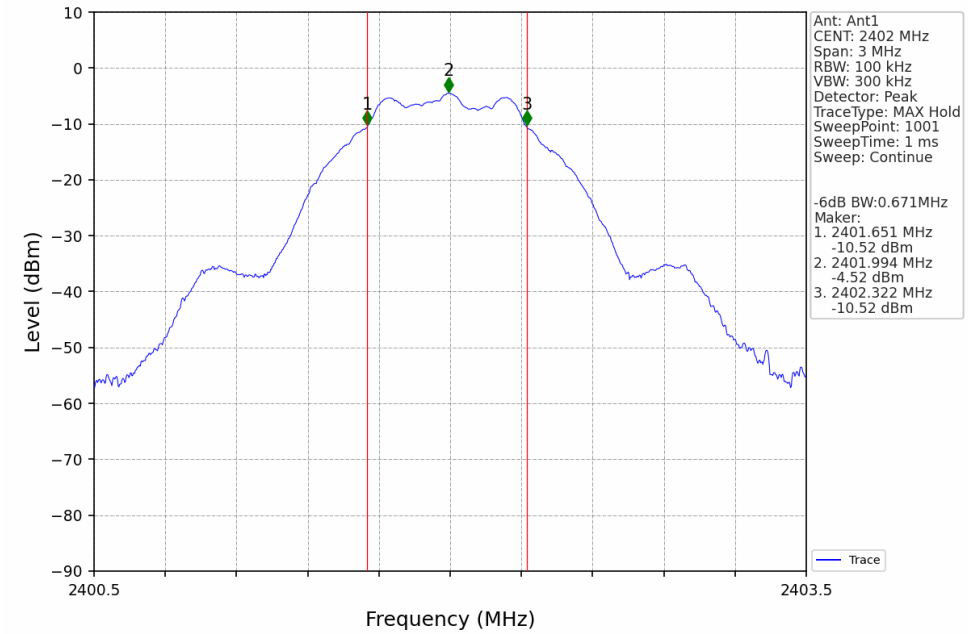


1M_HCH_2480MHz_Ant1_NTNV

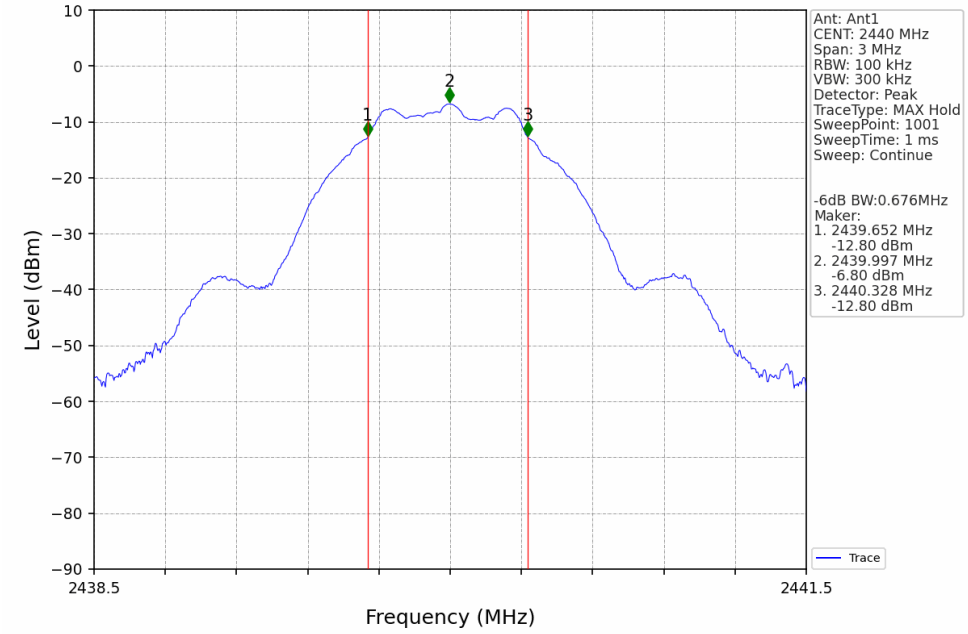

Ant: Ant1
CENT: 2480 MHz
Span: 3 MHz
RBW: 30 kHz
VBW: 91 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 3.2 ms
Sweep: Continue
99% OBW=1.046 MHz
Maker:
1. 2479.473 MHz
-24.97 dBm
2. 2480.519 MHz
-23.86 dBm
Trace
Level (dBm)
Frequency (MHz)
2478.5
2481.5

2.2.2 6dB BW

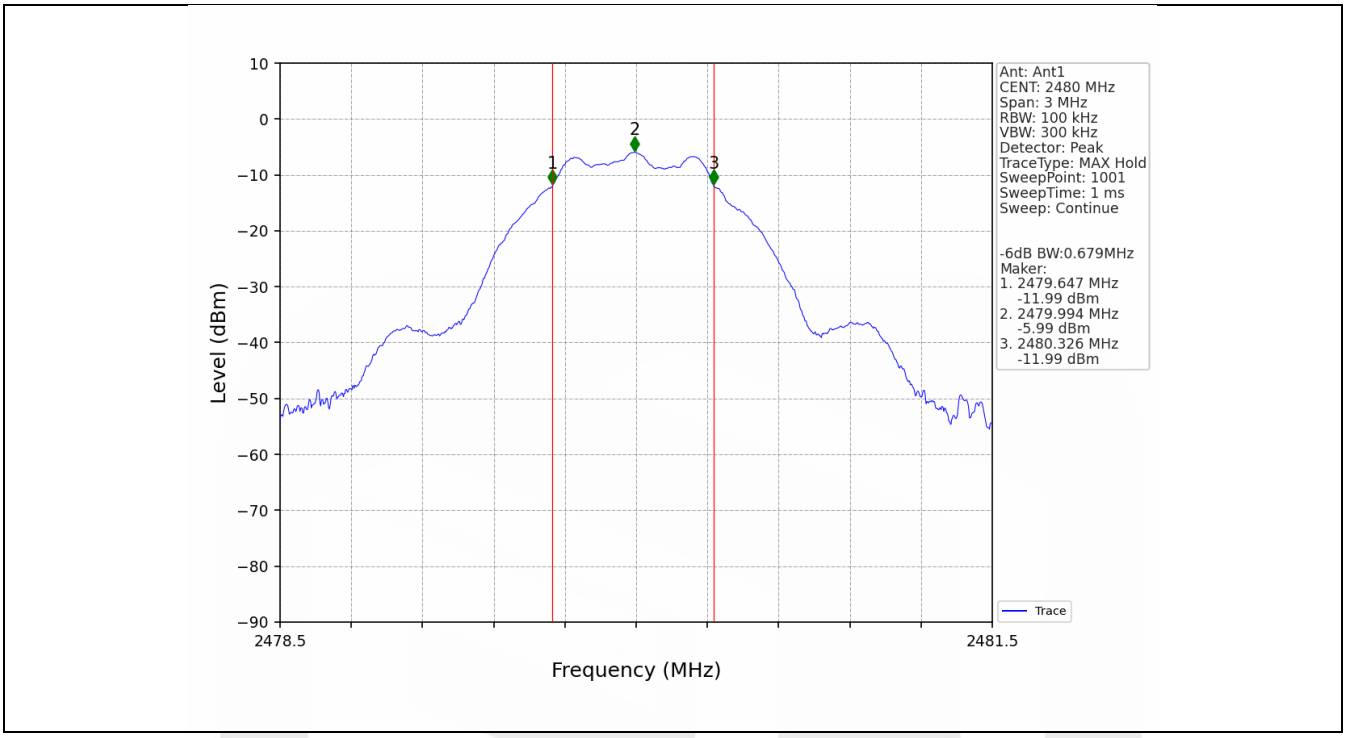
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV


Ant: Ant1
CENT: 2480 MHz
Span: 3 MHz
RBW: 100 kHz
VBW: 300 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue
-6dB BW:0.679MHz
Maker:
1. 2479.647 MHz
-11.99 dBm
2. 2479.994 MHz
-5.99 dBm
3. 2480.326 MHz
-11.99 dBm
Trace
Level (dBm)
Frequency (MHz)
2478.5
2481.5
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
1
2
3

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	-4.56	<=30	Pass
		2440	-6.69	<=30	Pass
		2480	-5.87	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

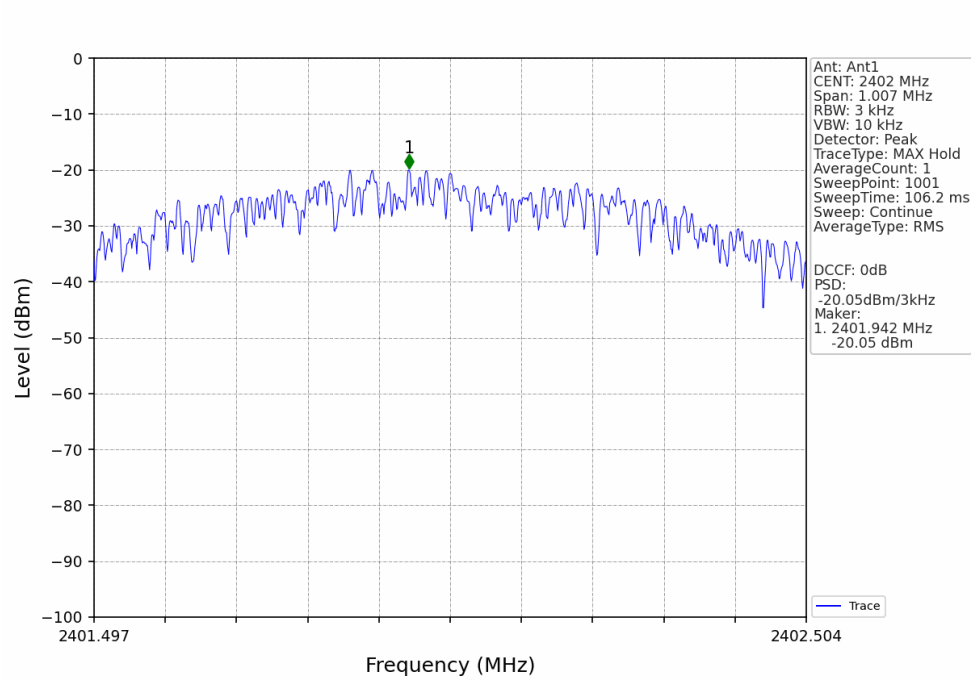
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-20.05	<=8	Pass
		2440	-22.06	<=8	Pass
		2480	-21.52	<=8	Pass

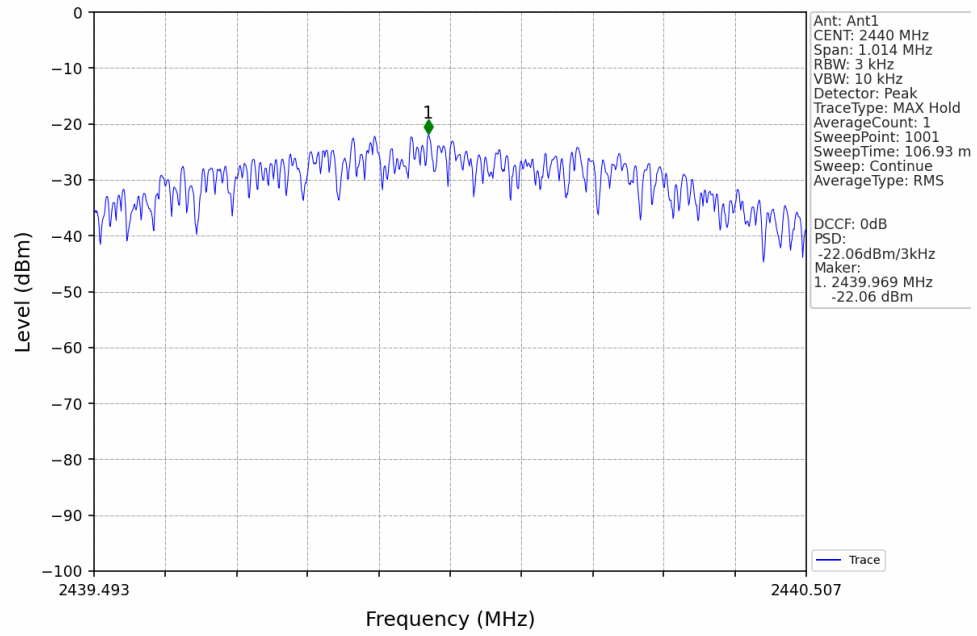
4.2 Test Graph

4.2.1 PSD

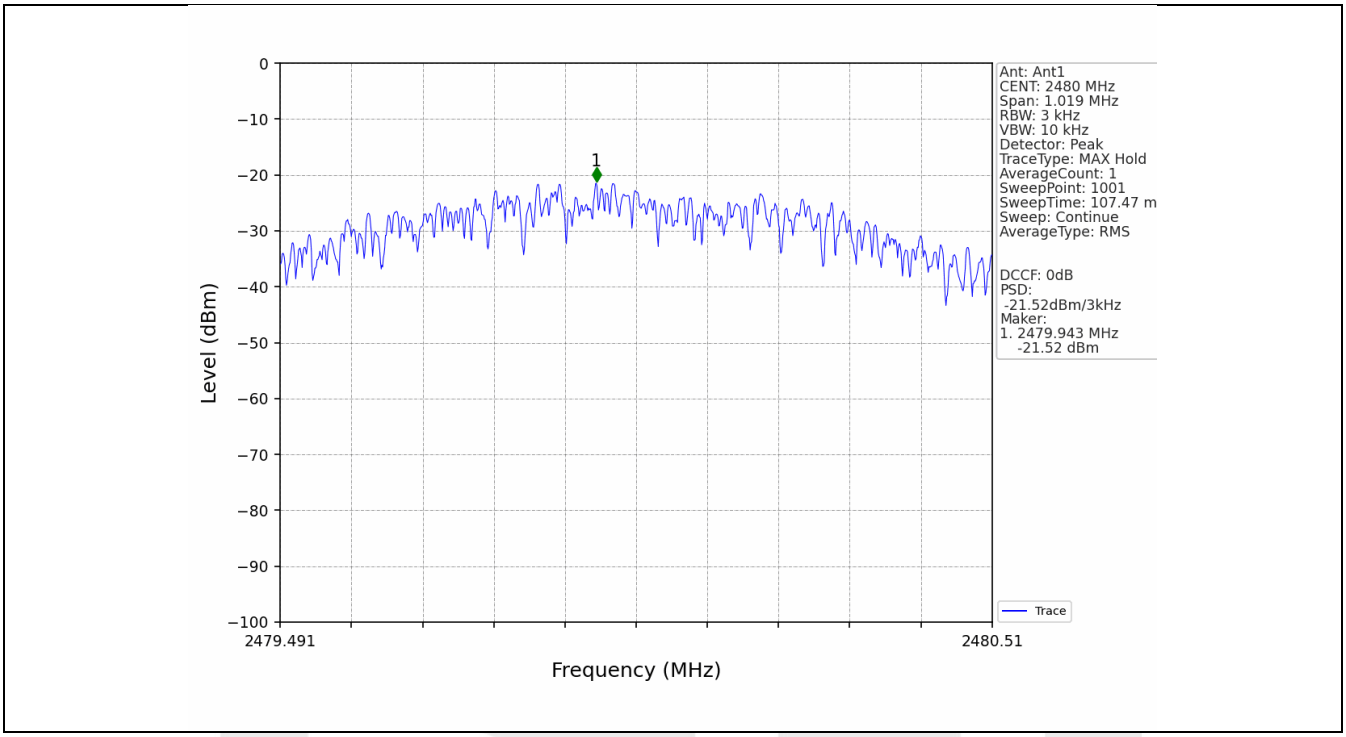
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV


Ant: Ant1
CENT: 2480 MHz
Span: 1.019 MHz
RBW: 3 kHz
VBW: 10 kHz
Detector: Peak
TraceType: MAX Hold
AverageCount: 1
SweepPoint: 1001
SweepTime: 107.47 m
Sweep: Continue
AverageType: RMS
DCCF: 0dB
PSD:
-21.52dBm/3kHz
Maker:
1. 2479.943 MHz
-21.52 dBm
Trace
Level (dBm)
Frequency (MHz)
2479.491
2480.51

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)
1M	SISO	2402	1	-4.71
		2440	1	-6.81
		2480	1	-6.02
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

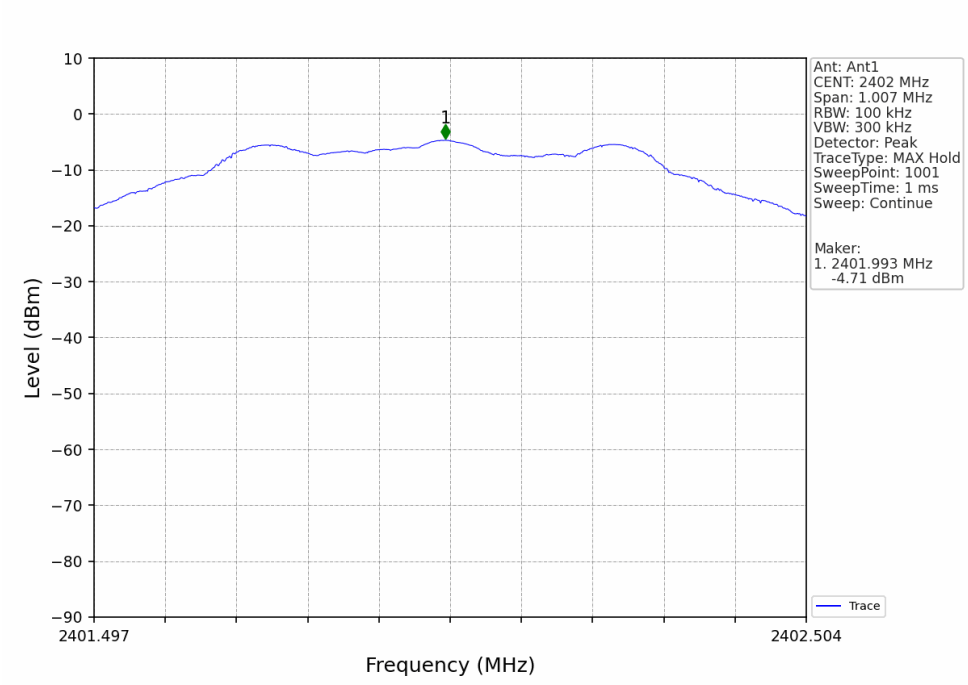
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-4.71	-24.71	Pass
		2440	1	-6.81	-26.81	Pass
		2480	1	-6.02	-26.02	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

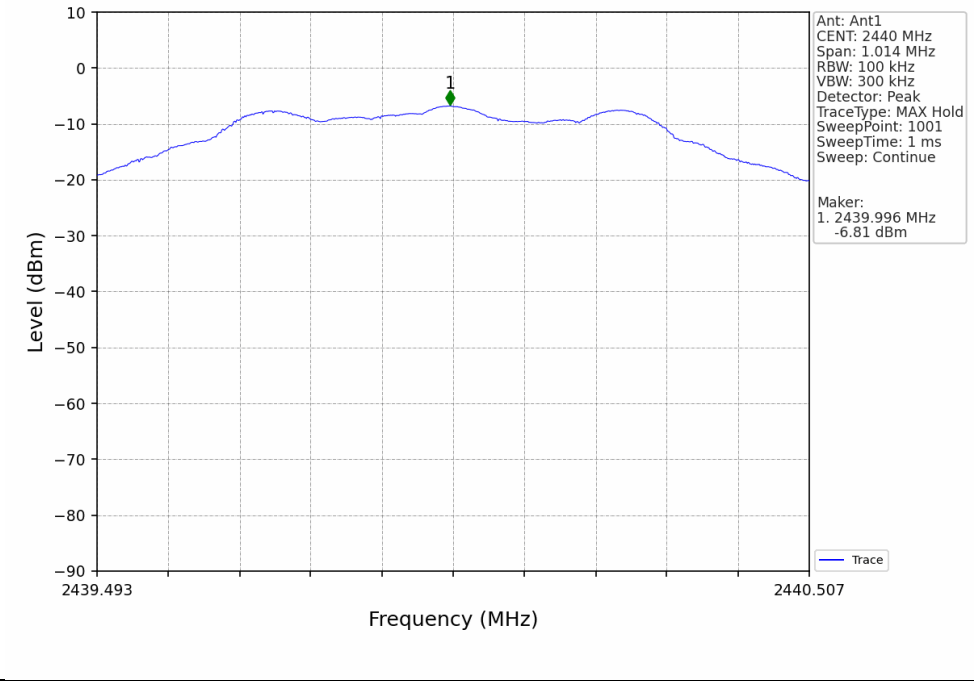
5.2 Test Graph

5.2.1 Ref

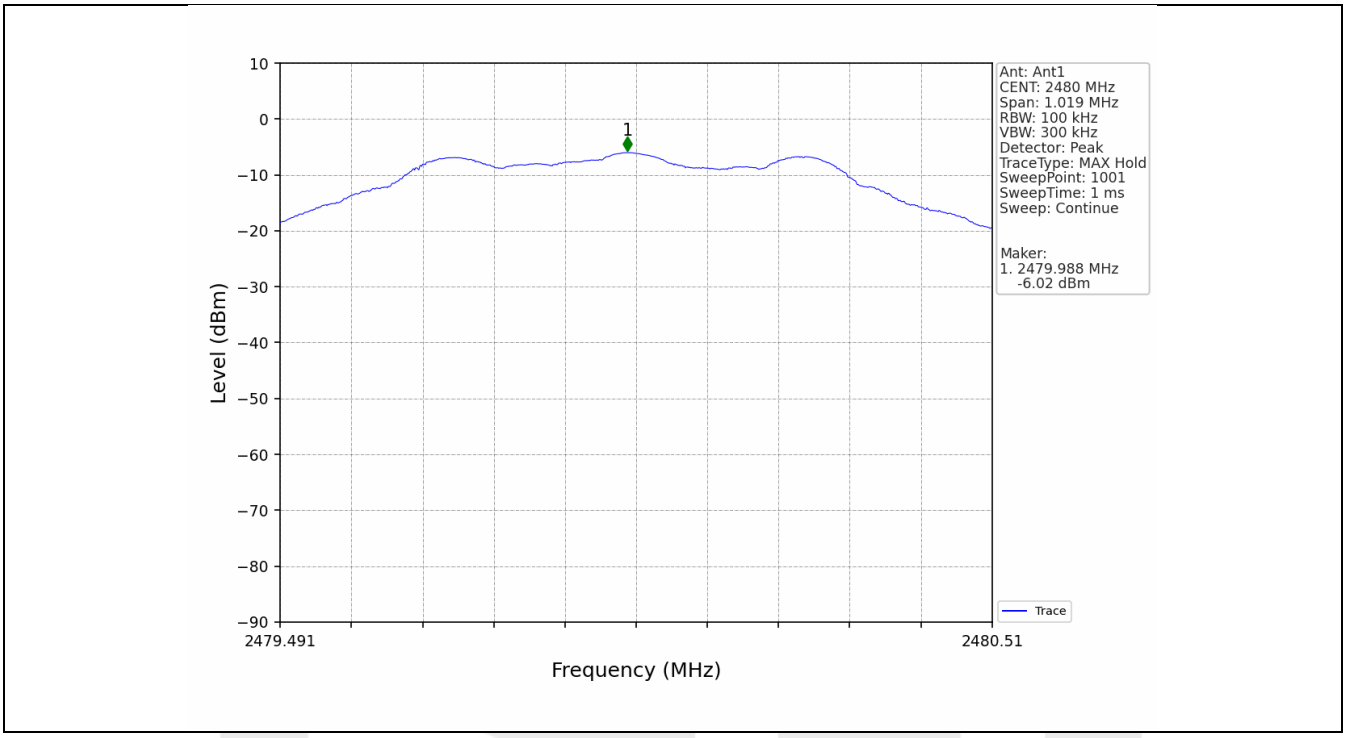
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

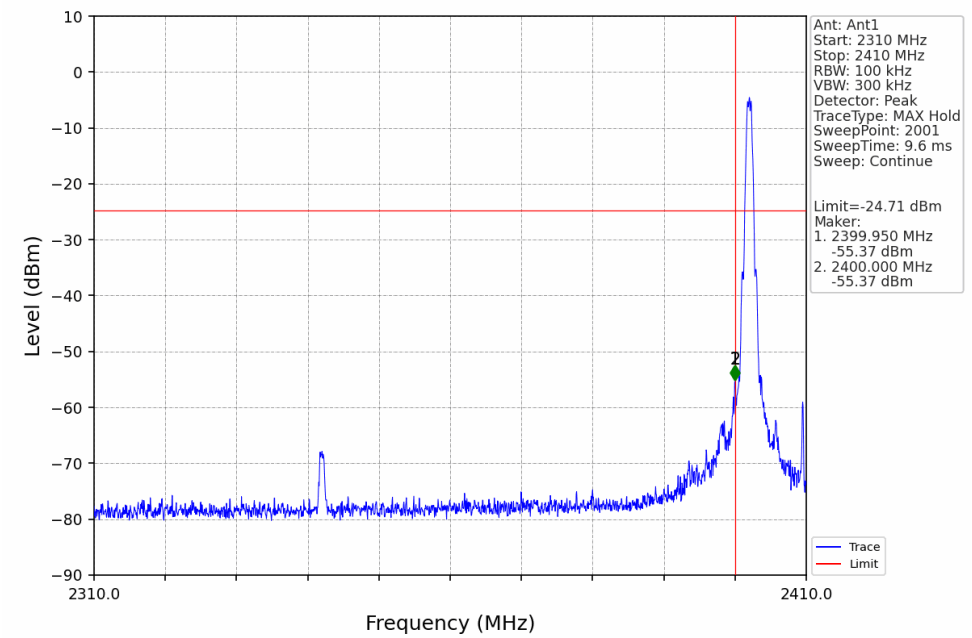


1M_HCH_2480MHz_Ant1_NTNV

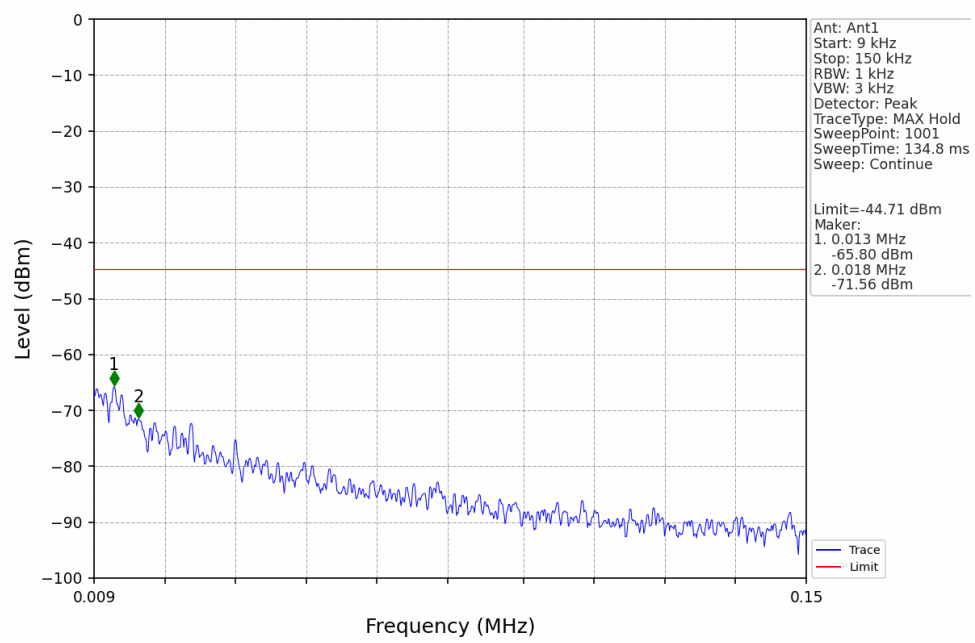

Ant: Ant1
CENT: 2480 MHz
Span: 1.019 MHz
RBW: 100 kHz
VBW: 300 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue
Maker:
1. 2479.988 MHz
-6.02 dBm
Level (dBm)
Frequency (MHz)
2479.491
2480.51
Trace

5.2.2 CSE

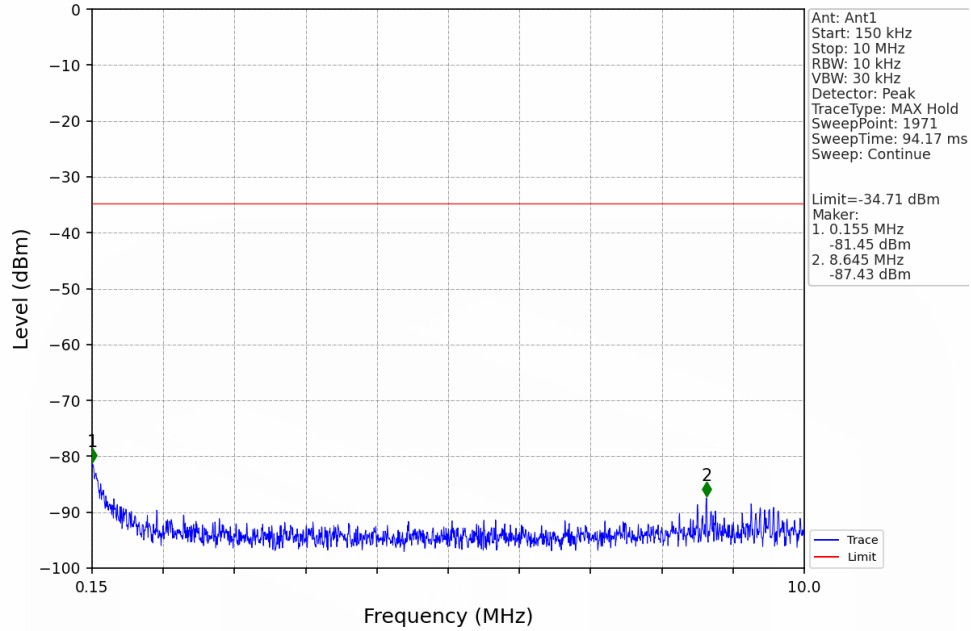
1M_LCH_2402MHz_Ant1_NTNV



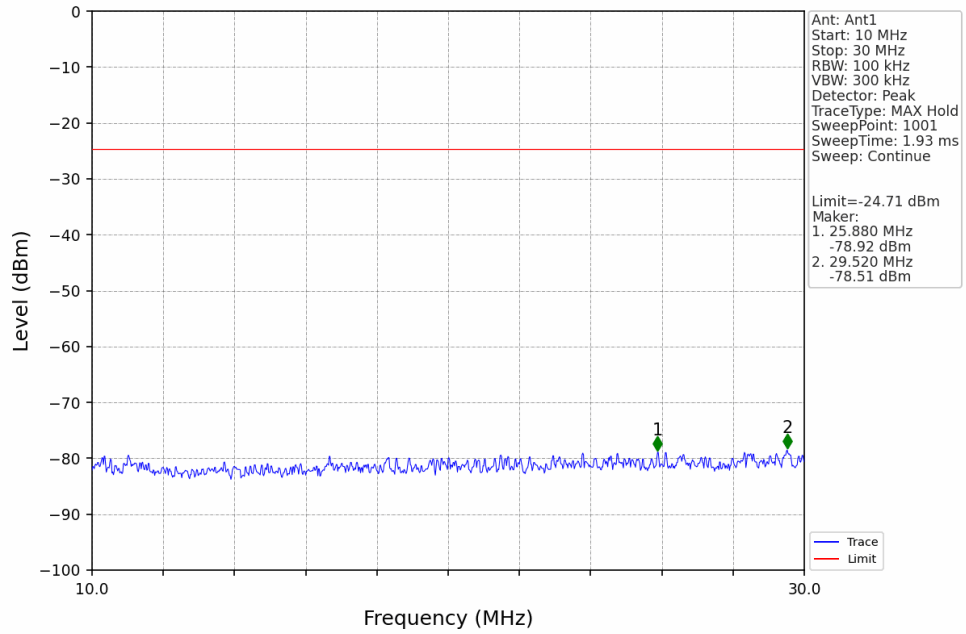
1M_LCH_2402MHz_Ant1_NTNV



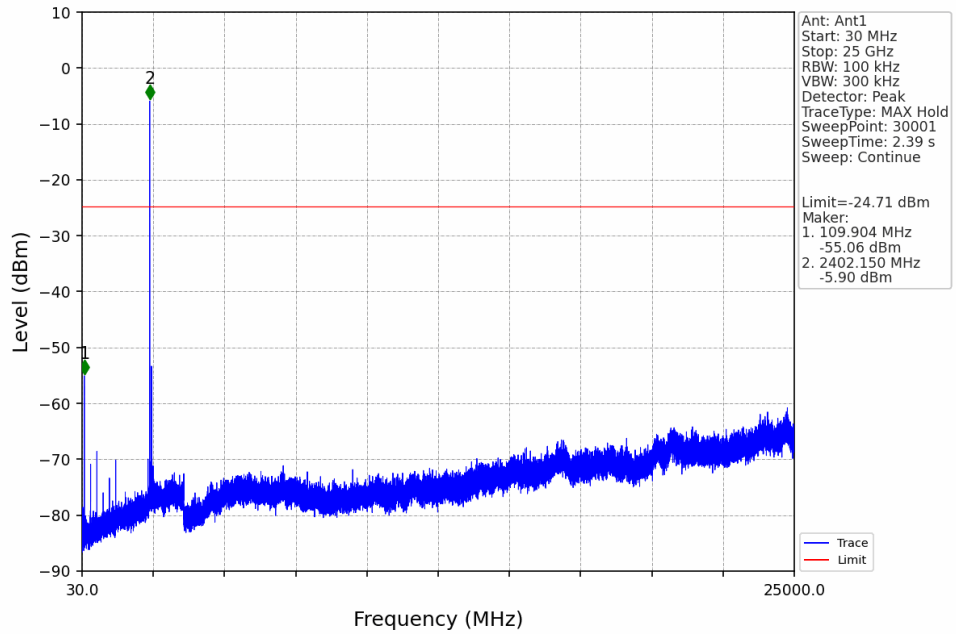
1M_LCH_2402MHz_Ant1_NTNV



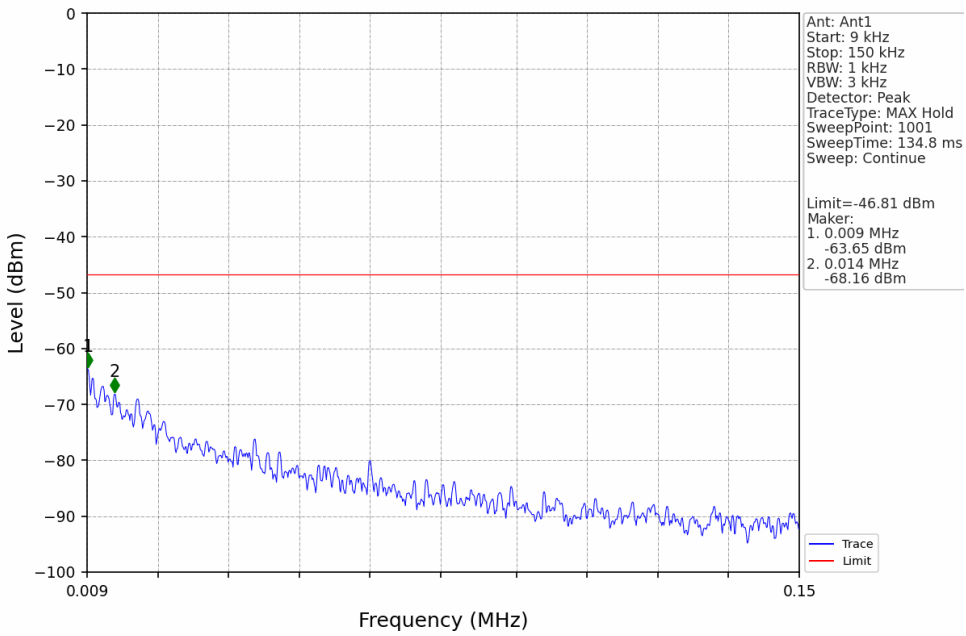
1M_LCH_2402MHz_Ant1_NTNV



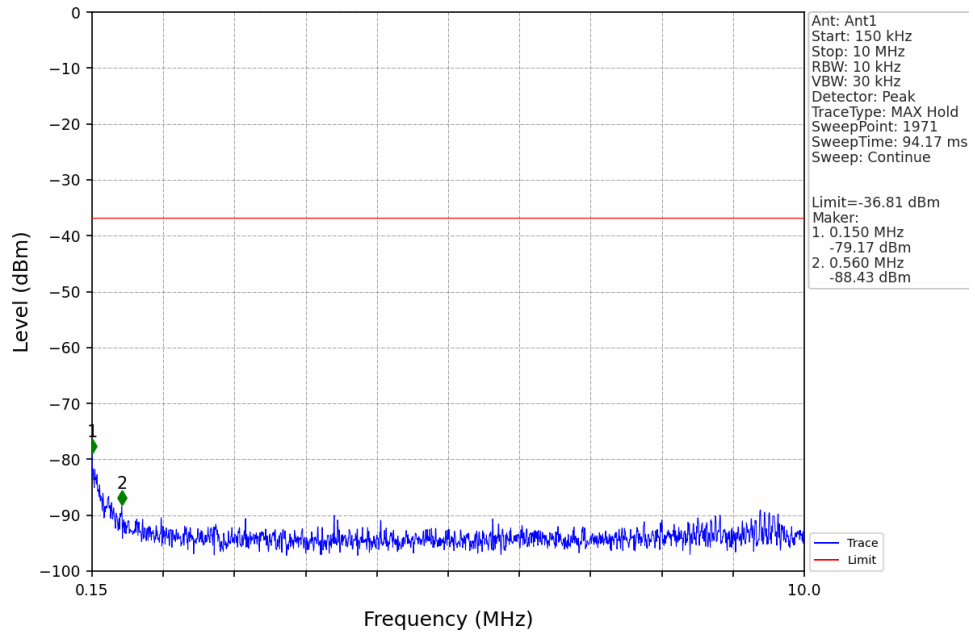
1M_LCH_2402MHz_Ant1_NTNV



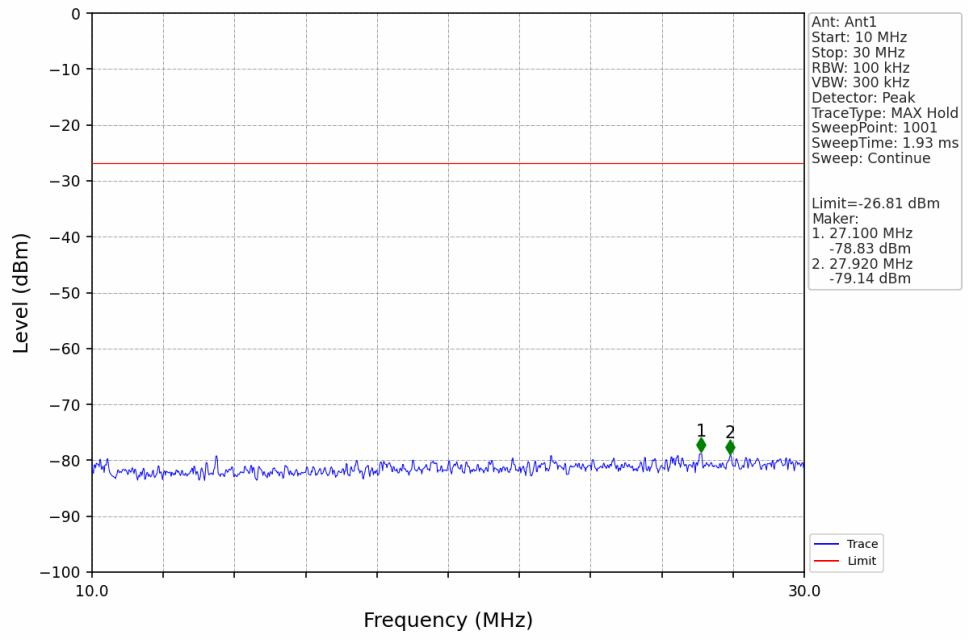
1M_MCH_2440MHz_Ant1_NTNV



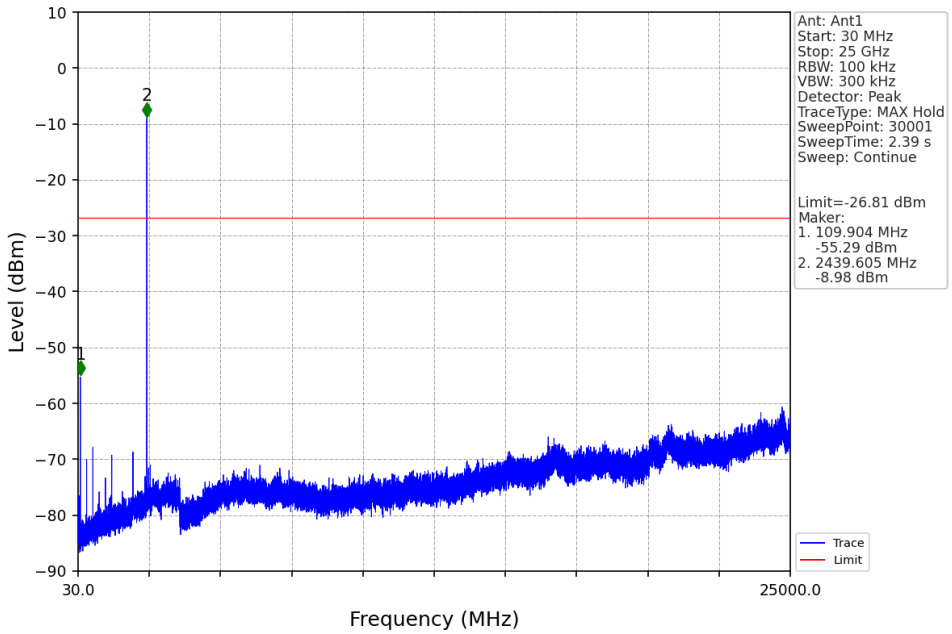
1M_MCH_2440MHz_Ant1_NTNV



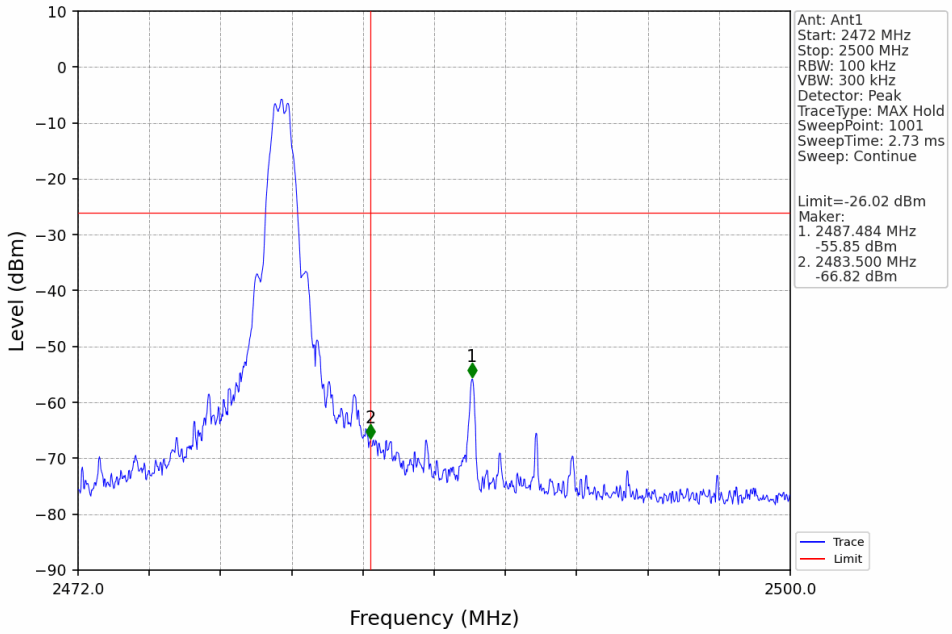
1M_MCH_2440MHz_Ant1_NTNV



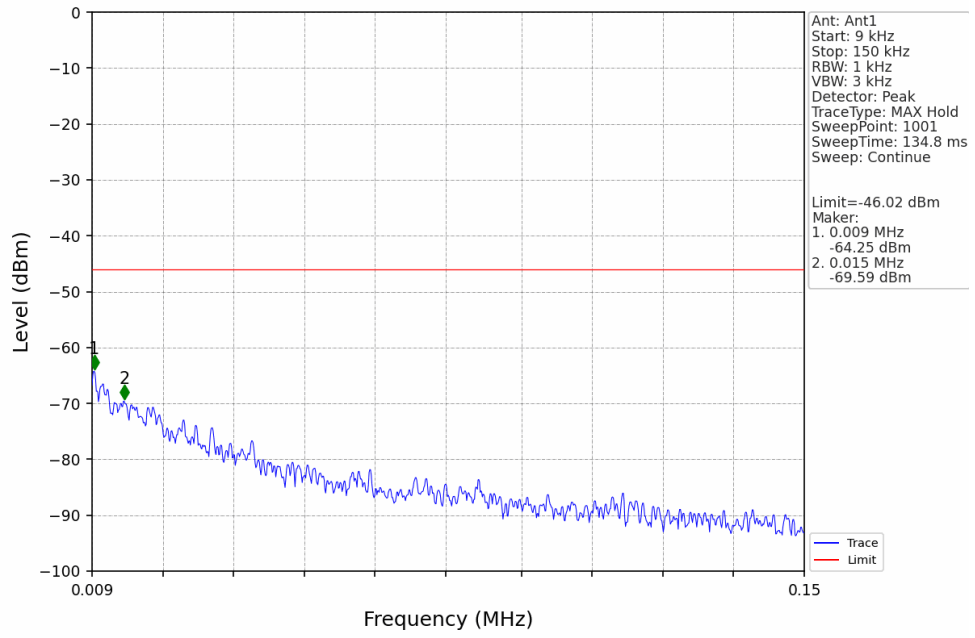
1M_MCH_2440MHz_Ant1_NTNV



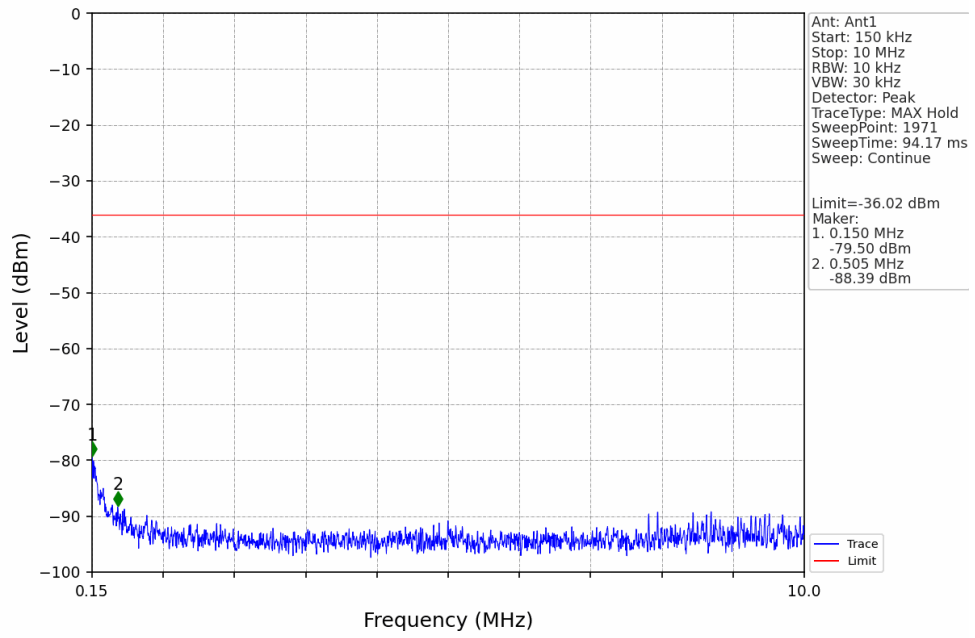
1M_HCH_2480MHz_Ant1_NTNV



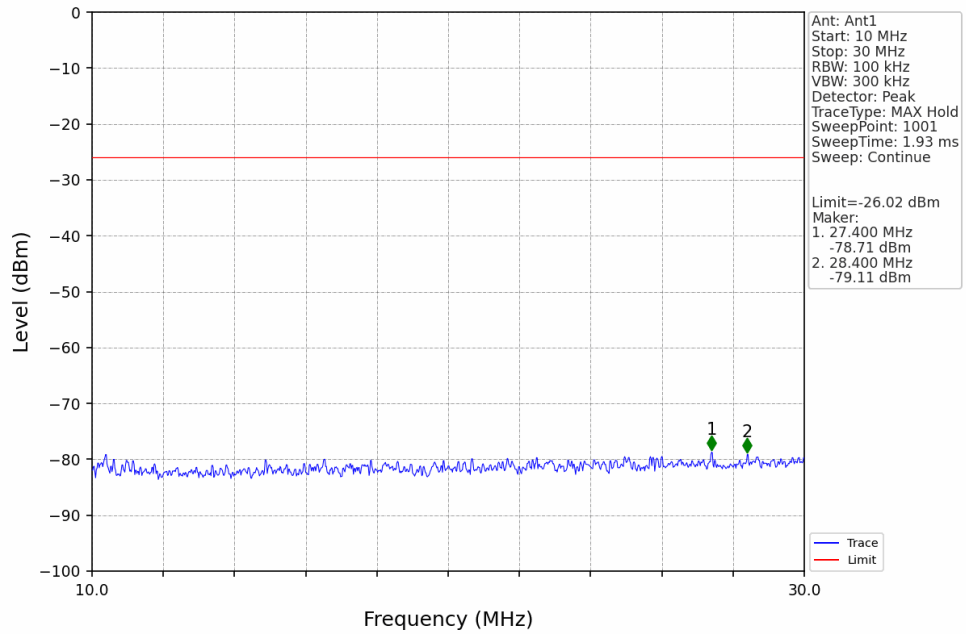
1M_HCH_2480MHz_Ant1_NTNV



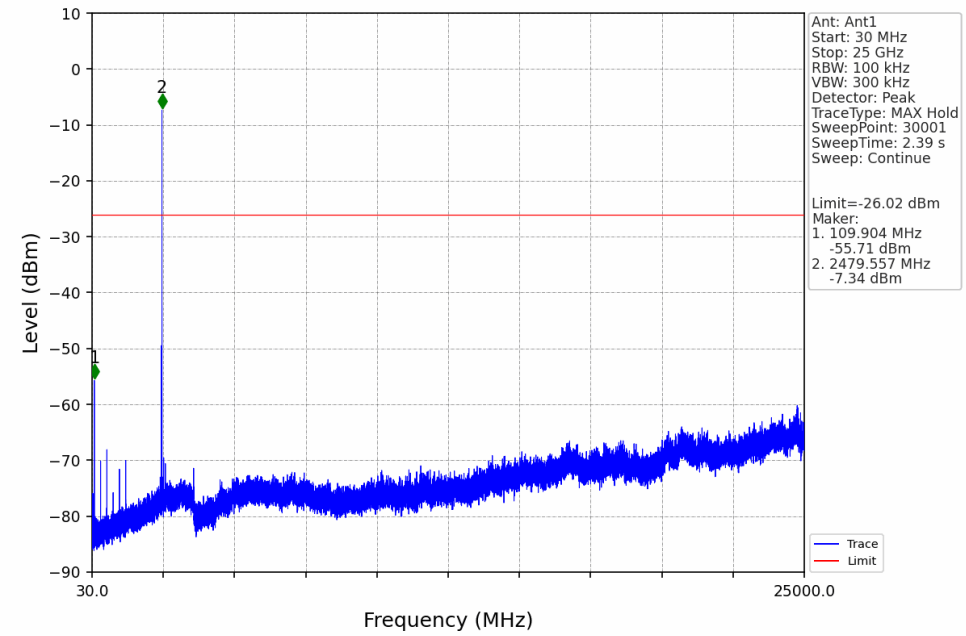
1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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