TEST REPORT

Application No.:	FYCR2605000023AT
Applicant:	Bose Corporation
Address of Applicant:	100 The Mountain, Framingham MA01701, United States of America
Manufacturer:	Bose Corporation
Address of Manufacturer:	100 The Mountain, Framingham MA01701, United States of America
Equipment Under Test (EUT):	
EUT Name:	Wireless Earbuds
Model No.:	638R
Trade Mark:	BOSE
FCC ID:	A94638R
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2026-05-29
Date of Test:	2026-06-06 to 2026-06-17
Date of Issue:	2026-06-24, Amendment 01: 2026-09-07
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

This report supersedes our previous report FYCR260500002306, issued on 2026-06-24, which is hereby deemed null and void.

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		*2026-06-24*		*Original*
02		*2026-09-07*		*Updated the Equipment List*

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence		N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10 (2020) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10 (2020) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time		ANSI C63.10 (2020) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	One prototype: Lithium Ion Battery: DC 3.9V 88mAh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.89V 680mAh rechargeable battery which charged by USB port for charging case Second supply prototype: Lithium Ion Battery: DC 3.89V 91mAh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.9V 690mAh 2.691Wh rechargeable battery which charged by USB port for charging case
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	2404MHz to 2478MHz
Modulation Type:	Pi/4 QPSK(HSL2, HSL3), Pi/4 DQPSK(HSL4), 8PSK(HSL5), 8DPSK (HSL6)
Channel Spacing:	2MHz
Number of Channels:	38
Antenna Type:	Integral Antenna
Antenna Gain:	-4.53dBi

Remark:The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 4.7dB
Radiated Spurious Emissions Below 1GHz	± 5.7dB
Radiated Spurious Emissions Above 1GHz	± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz)
Maximum Conducted Output Power	2.4G:± 0.80dB; 5G:± 0.43dB
20dB Bandwidth	2.4G: ± 0.34%; 5G:± 0.27%
Carrier Frequencies Separation	± 5.4 x 10-8
Dwell Time	± 0.28%
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

– the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.4 Test Location

All tests were performed at:

Compliance Certification Services（Kunshan）Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services（Kunshan）Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services（Kunshan）Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services（Kunshan）Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/08/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2025/7/21	2026/7/20
Pre-amplifier	HP	8447D	SEM005-02	2025/7/21	2026/7/20
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4

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Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026/2/3	2027/2/2
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2026/2/4	2027/2/3
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2026/2/5	2027/2/4
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2026/2/3	2027/2/2

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2025/7/9	2026/7/8
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2025/7/9	2026/7/8
Barometer	DUMAI	DYM3	SEM002-24	2025/7/9	2026/7/8

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -4.53dBi.

Antenna location: Refer to internal photos

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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth

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system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.10.5 & 7.8.8
Measurement Distance: 3m
Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 57.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.

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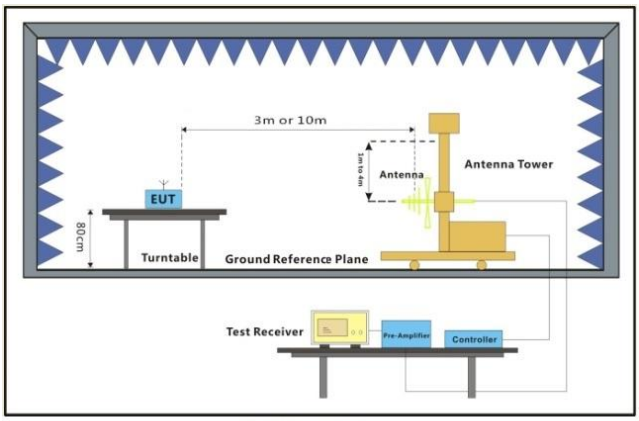
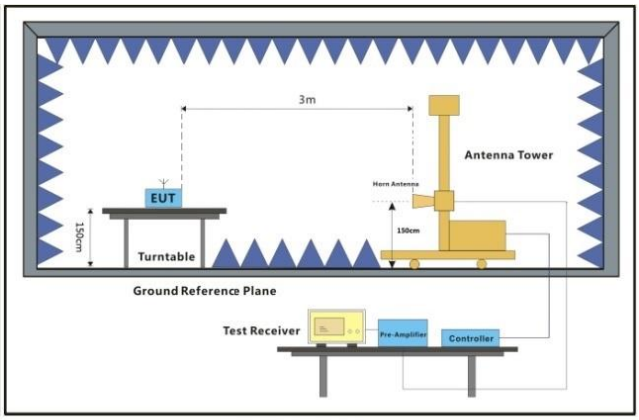
7.1.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.1.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

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FCC QHS Band edge and RSE TX Worse

4. Carrier Frequency Separation

4.1 Test Result

4.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
QHS 2M	SISO	HOPP	1.996	2.564	>=1.709	Pass
QHS 4M	SISO	HOPP	2.020	2.632	>=1.755	Pass
QHS 5M	SISO	HOPP	2.000	2.566	>=1.711	Pass
QHS 6M	SISO	HOPP	2.000	2.560	>=1.707	Pass

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
QHS 2M	2	4.18	0.08	-15.54	-15.54	-15.54	-15.54	-15.54	-15.54	-15.54	-15.54	-15.54	-15.54

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
QHS 6M	4	1.44	0.06	-18.77	-18.77	-18.77	-18.77	-18.77	-18.77	-18.77	-18.77	-18.77	-18.77

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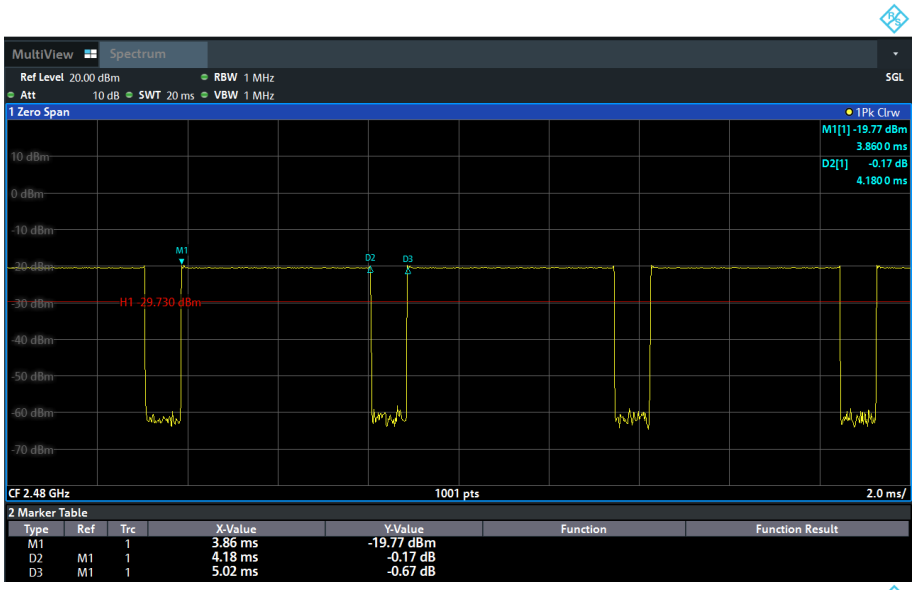
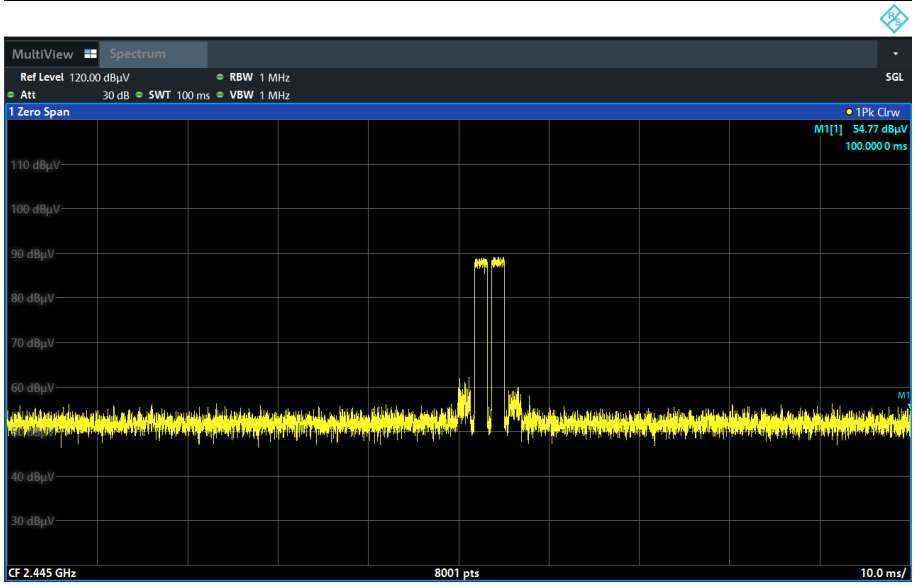
2M





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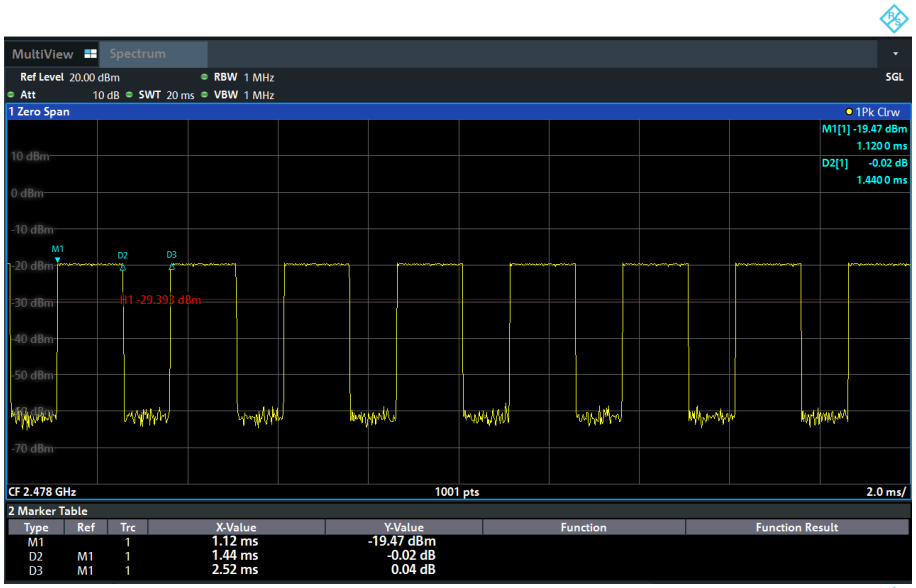
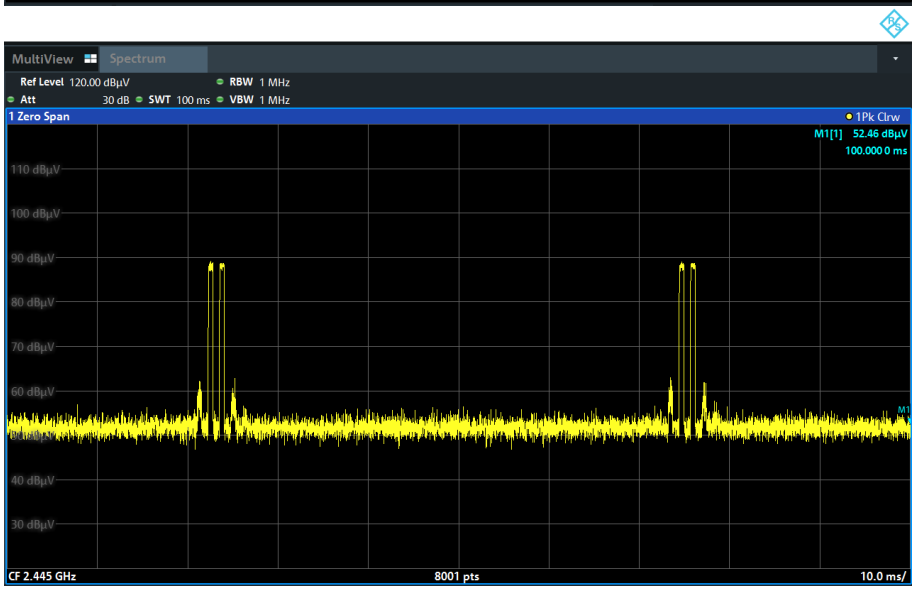
6M





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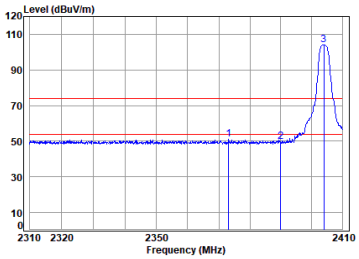
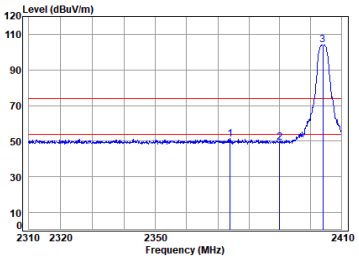
QHS_2M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2404 Band edge
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2373.109	4.86	27.15	32.97	52.07	51.11	74.00	-22.89	Peak	0.00
2	2390.000	4.86	27.12	32.96	50.49	49.51	74.00	-24.49	Peak	0.00
3 pp	2404.000	4.86	27.13	32.95	105.03	104.07	74.00	30.07	Peak	0.00

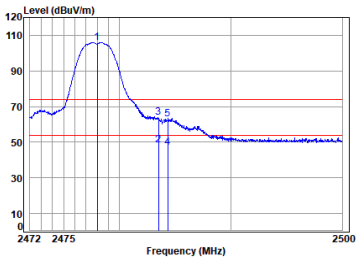
QHS_2M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2404 Band edge
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2373.913	4.86	27.15	32.97	52.07	51.11	74.00	-22.89	Peak	0.00
2	2390.000	4.86	27.12	32.96	50.24	49.26	74.00	-24.74	Peak	0.00
3 pp	2404.000	4.86	27.13	32.95	105.10	104.14	74.00	30.14	Peak	0.00

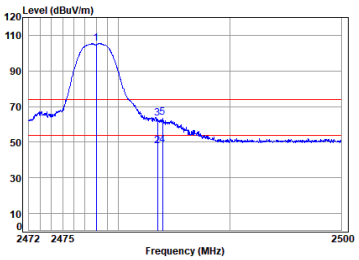
QHS_2M_TX_CH_38_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2478 Band edge
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2478.000	4.84	27.67	32.91	106.37	105.97	74.00	31.97	Peak	0.00
2 av	2483.500	4.84	27.70	32.91	48.76	48.39	74.00	-25.61	Average	0.00
3	2483.500	4.84	27.70	32.91	64.30	63.93	74.00	-10.07	Peak	0.00
4	2484.337	4.84	27.71	32.91	47.57	47.21	74.00	-26.79	Average	0.00
5	2484.337	4.84	27.71	32.91	63.11	62.75	74.00	-11.25	Peak	0.00

QHS_2M_TX_CH_38_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2478 Band edge
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2478.000	4.84	27.67	32.91	105.72	105.32	74.00	31.32	Peak	0.00
2	2483.500	4.84	27.70	32.91	48.07	47.70	74.00	-26.30	Average	0.00
3	2483.500	4.84	27.70	32.91	63.61	63.24	74.00	-10.76	Peak	0.00
4 av	2483.945	4.84	27.70	32.91	48.65	48.28	74.00	-25.72	Average	0.00
5	2483.945	4.84	27.70	32.91	64.19	63.82	74.00	-10.18	Peak	0.00

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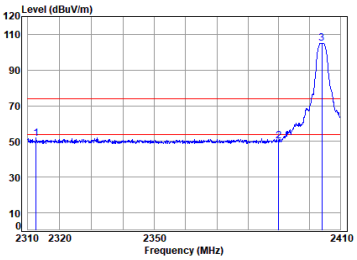
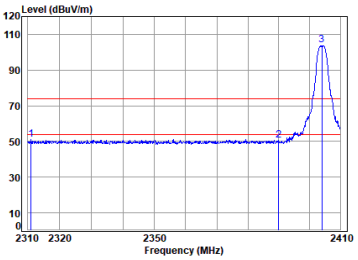
QHS_6M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2404 Band edge
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2312.645	4.87	27.13	33.00	52.52	51.52	74.00	-22.48	Peak	0.00
2	2390.000	4.86	27.12	32.96	51.14	50.16	74.00	-23.84	Peak	0.00
3 pp	2404.000	4.86	27.13	32.95	106.01	105.05	74.00	31.05	Peak	0.00

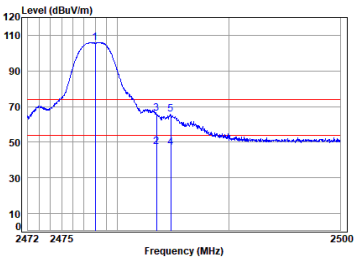
QHS_6M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2404 Band edge
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2310.979	4.87	27.12	33.01	52.26	51.24	74.00	-22.76	Peak	0.00
2	2390.000	4.86	27.12	32.96	51.41	50.43	74.00	-23.57	Peak	0.00
3 pp	2404.000	4.86	27.13	32.95	105.00	104.04	74.00	30.04	Peak	0.00

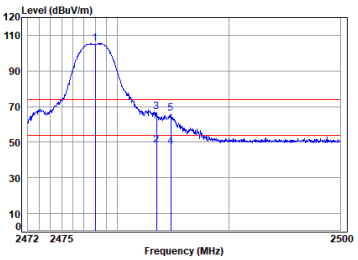
QHS_6M_TX_CH_38_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2478 Band edge
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2478.000	4.84	27.67	32.91	106.42	106.02	74.00	32.02	Peak	0.00
2 av	2483.500	4.84	27.70	32.91	47.67	47.30	74.00	-26.70	Average	0.00
3	2483.500	4.84	27.70	32.91	66.44	66.07	74.00	-7.93	Peak	0.00
4	2484.757	4.84	27.71	32.91	47.47	47.11	74.00	-26.89	Average	0.00
5	2484.757	4.84	27.71	32.91	66.24	65.88	74.00	-8.12	Peak	0.00

QHS_6M_TX_CH_38_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2478 Band edge
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2478.000	4.84	27.67	32.91	105.67	105.27	74.00	31.27	Peak	0.00
2 av	2483.500	4.84	27.70	32.91	48.68	48.31	74.00	-25.69	Average	0.00
3	2483.500	4.84	27.70	32.91	67.45	67.08	74.00	-6.92	Peak	0.00
4	2484.757	4.84	27.71	32.91	47.72	47.36	74.00	-26.64	Average	0.00
5	2484.757	4.84	27.71	32.91	66.49	66.13	74.00	-7.87	Peak	0.00

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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.4,6.5
Measurement Distance: 3m
Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is 40log(3/300) = -80dB (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(10/3) = 10.46dB (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 51.9 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.

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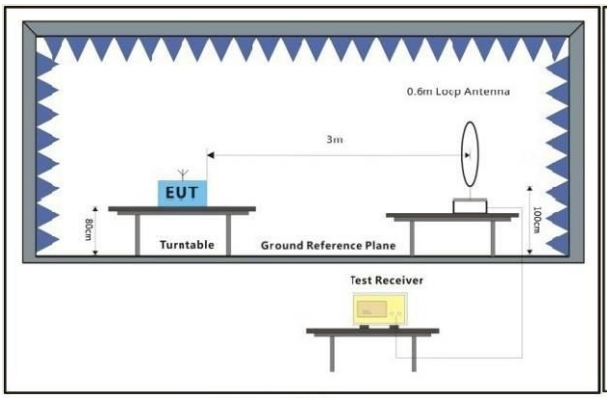
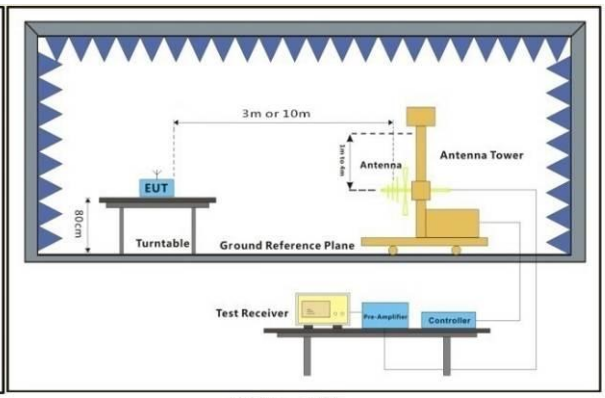
7.2.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

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7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.

c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

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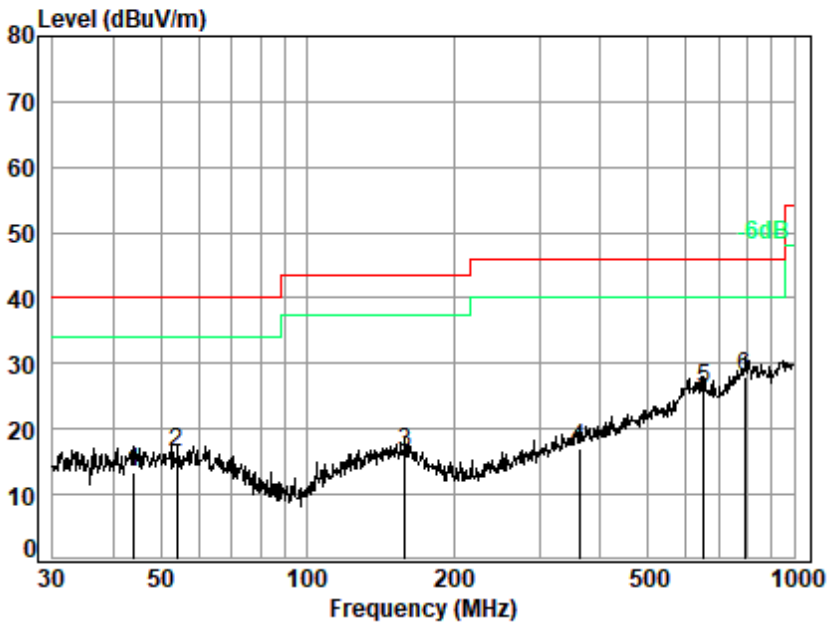
Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	44.12	0.52	17.58	26.11	21.38	13.37	40.00	-26.63	QP
2	54.07	0.39	17.71	26.10	24.56	16.56	40.00	-23.44	QP
3	158.67	1.23	17.44	25.61	23.41	16.47	43.50	-27.03	QP
4	361.71	1.47	18.74	25.71	22.50	17.00	46.00	-29.00	QP
5	651.94	2.66	24.54	26.54	25.36	26.02	46.00	-19.98	QP
6	793.40	3.31	26.83	26.50	24.49	28.13	46.00	-17.87	QP

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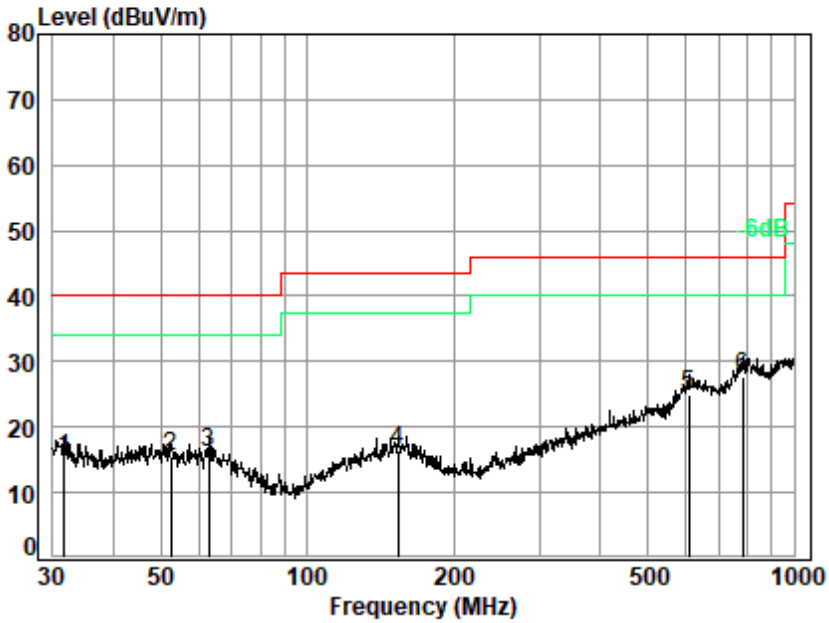
Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00023AT
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.73	0.64	16.62	26.13	24.10	15.23	40.00	-24.77	QP
2	52.58	0.55	17.76	26.10	23.21	15.42	40.00	-24.58	QP
3	62.87	0.84	16.94	26.10	24.46	16.14	40.00	-23.86	QP
4	153.74	1.27	17.44	25.63	23.37	16.45	43.50	-27.05	QP
5	607.79	3.40	24.21	26.56	23.93	24.98	46.00	-21.02	QP
6	782.35	3.05	26.61	26.50	24.49	27.65	46.00	-18.35	QP

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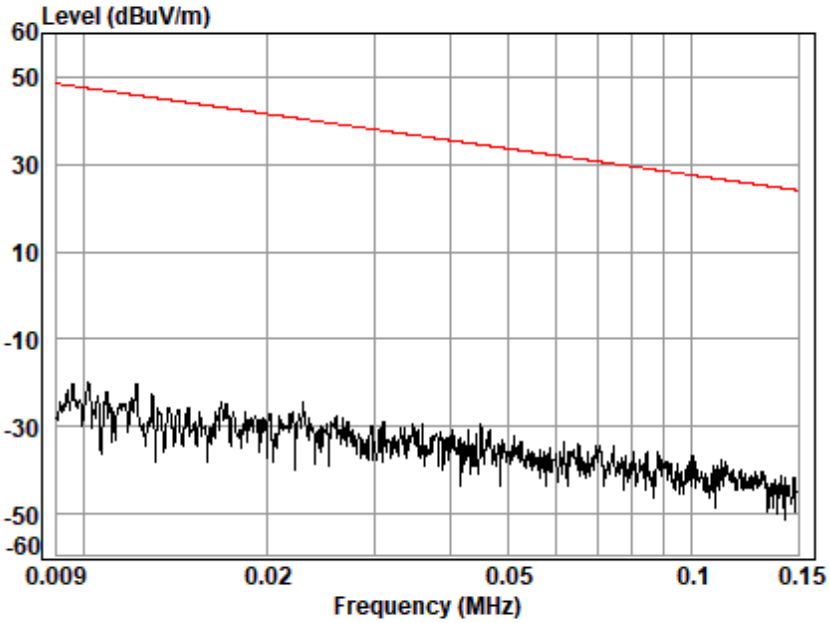


```
Site      : chamber
Condition: 3m
Job No.   : 00023AT
Test Mode: 06
          : coaxial
```

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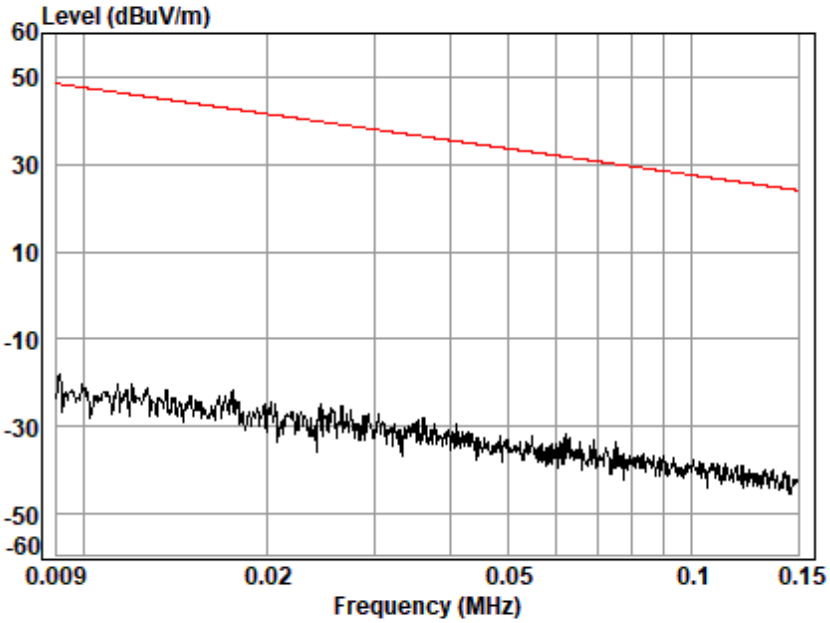


```
Site      : chamber
Condition: 3m
Job No.   : 00023AT
Test Mode: 06
          : coplanar
```

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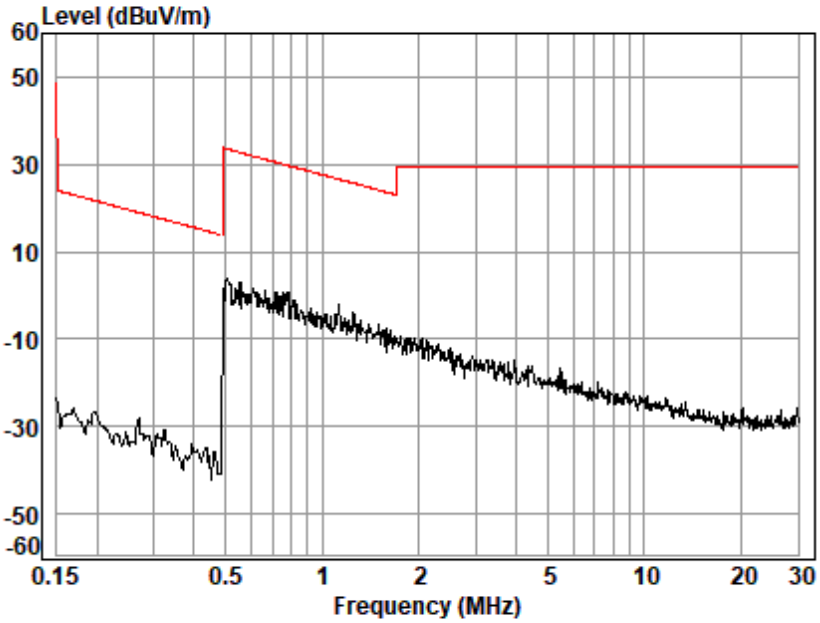


```
Site      : chamber
Condition: 3m
Job No.   : 00023AT
Test Mode: 06
          : coaxial
```

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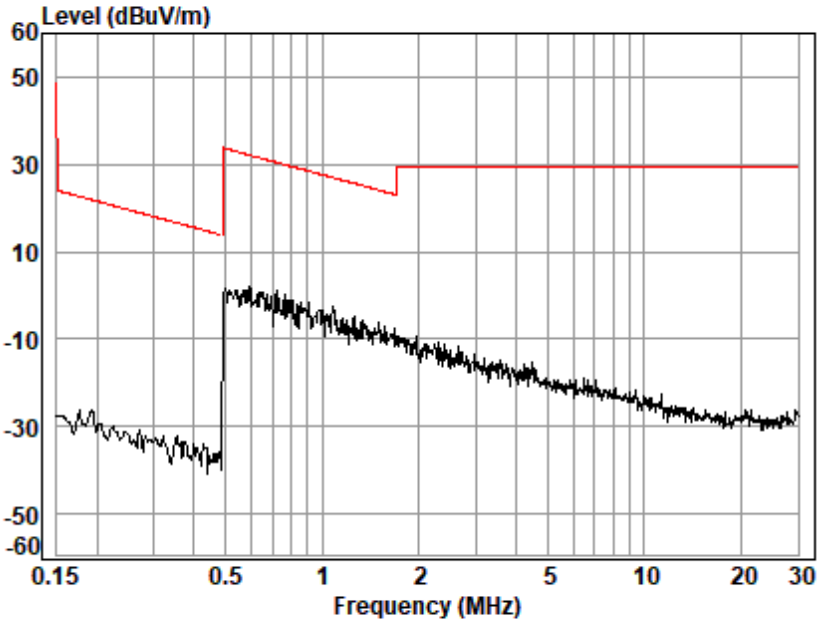


```
Site      : chamber
Condition: 3m
Job No.   : 00023AT
Test Mode: 06
          : coplanar
```

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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.6 & 7.8.8
Measurement Distance: 1m & 3m
Test Engineer: Fly Yan

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(1/3) = -9.54dB (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.

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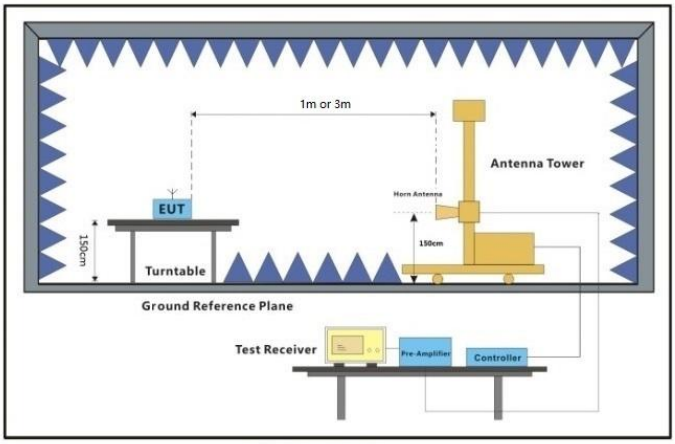
7.3.3 Test Setup Diagram



Above 1GHz

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7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.

b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.

c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. Test the EUT in the lowest channel, the middle channel, the Highest channel.

g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.

2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.

4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

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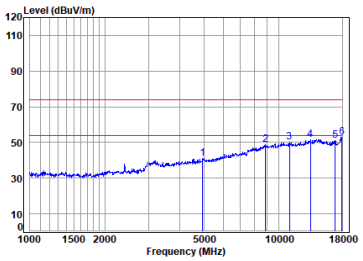
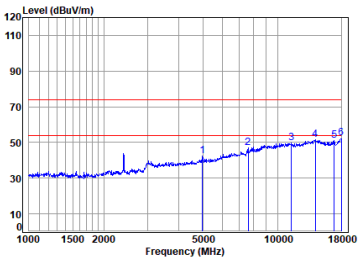
QHS_2M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2404 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4944.993	8.31	32.12	53.19	53.99	41.23	74.00	-32.77	Peak	0.00
2	8840.473	10.57	37.94	53.95	54.41	48.97	74.00	-25.03	Peak	0.00
3	11044.130	11.25	38.98	53.62	53.38	49.99	74.00	-24.01	Peak	0.00
4	13442.810	12.02	40.06	54.01	53.47	51.54	74.00	-22.46	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.72	51.09	74.00	-22.91	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.66	53.00	74.00	-21.00	Peak	0.00

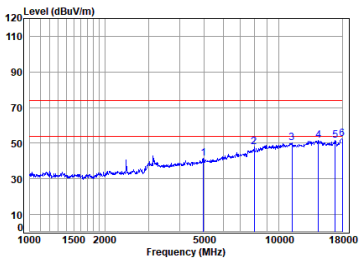
QHS_2M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2404 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4988.058	8.34	32.71	53.20	54.69	42.54	74.00	-31.46	Peak	0.00
2	7606.788	9.26	36.14	53.82	55.29	46.87	74.00	-27.13	Peak	0.00
3	11335.190	11.90	39.11	53.77	52.69	49.93	74.00	-24.07	Peak	0.00
4	14160.710	10.77	40.63	53.82	53.91	51.49	74.00	-22.51	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.66	51.03	74.00	-22.97	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.32	52.51	74.00	-21.49	Peak	0.00

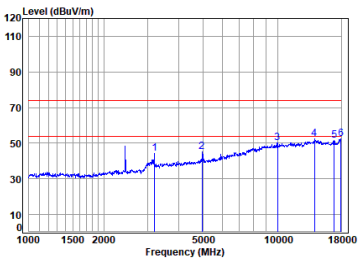
QHS_2M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2440 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4988.058	8.34	32.71	53.20	53.61	41.46	74.00	-32.54	Peak	0.00
2	7989.893	9.40	36.92	54.19	55.59	47.72	74.00	-26.28	Peak	0.00
3	11302.480	11.83	39.01	53.76	53.27	50.35	74.00	-23.65	Peak	0.00
4	14450.130	11.07	39.90	53.67	54.06	51.36	74.00	-22.64	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.97	51.34	74.00	-22.66	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.43	52.62	74.00	-21.38	Peak	0.00

QHS_2M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2440 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	3196.094	5.99	29.20	52.90	61.82	44.11	74.00	-29.89	Peak	0.00
2	4973.662	8.33	32.48	53.19	57.63	45.25	74.00	-28.75	Peak	0.00
3	9981.525	11.84	38.42	54.10	54.15	50.31	74.00	-23.69	Peak	0.00
4	14079.080	10.68	40.37	53.86	55.42	52.61	74.00	-21.39	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.97	51.34	74.00	-22.66	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.33	52.67	74.00	-21.33	Peak	0.00

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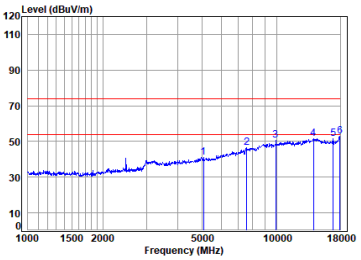
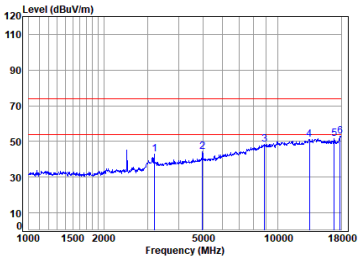
QHS_2M_TX_CH_38_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5075.317	8.39	33.10	53.21	52.64	40.92	74.00	-33.08	Peak	0.00
2	7584.833	9.25	36.04	53.80	55.08	46.57	74.00	-27.43	Peak	0.00
3	9923.991	11.86	38.85	54.09	54.22	50.84	74.00	-23.16	Peak	0.00
4	14038.450	10.64	40.69	53.88	54.14	51.59	74.00	-22.41	Peak	0.00
5	16891.040	14.58	38.62	51.83	50.04	51.41	74.00	-22.59	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.54	52.88	74.00	-21.12	Peak	0.00

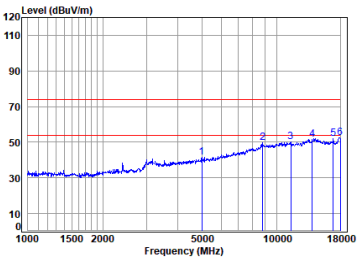
QHS_2M_TX_CH_38_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	3196.094	5.99	29.20	52.90	60.52	42.81	74.00	-31.19	Peak	0.00
2	4988.058	8.34	32.71	53.20	56.23	44.08	74.00	-29.92	Peak	0.00
3	8866.062	10.65	38.06	53.94	53.81	48.58	74.00	-25.42	Peak	0.00
4	13404.010	12.11	39.82	54.02	53.35	51.26	74.00	-22.74	Peak	0.00
5	16891.040	14.58	38.62	51.83	50.04	51.41	74.00	-22.59	Peak	0.00
6	pp17844.590	14.47	40.83	51.53	48.96	52.73	74.00	-21.27	Peak	0.00

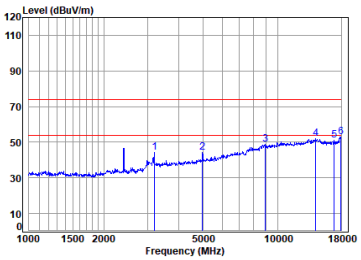
QHS_6M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2404 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5002.497	8.35	32.91	53.20	53.62	41.68	74.00	-32.32	Peak	0.00
2	8789.516	10.41	38.14	53.96	55.02	49.61	74.00	-24.39	Peak	0.00
3	11400.910	12.04	39.30	53.81	52.67	50.20	74.00	-23.80	Peak	0.00
4	13917.240	10.81	40.34	53.92	54.32	51.55	74.00	-22.45	Peak	0.00
5	16891.040	14.58	38.62	51.83	50.83	52.20	74.00	-21.80	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.51	52.70	74.00	-21.30	Peak	0.00

QHS_6M_TX_CH_01_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2404 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	3196.094	5.99	29.20	52.90	61.82	44.11	74.00	-29.89	Peak	0.00
2	4988.058	8.34	32.71	53.20	56.35	44.20	74.00	-29.80	Peak	0.00
3	8917.462	10.81	38.23	53.92	53.50	48.62	74.00	-25.38	Peak	0.00
4	14201.690	10.81	40.89	53.80	54.29	52.19	74.00	-21.81	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.59	50.96	74.00	-23.04	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.46	52.80	74.00	-21.20	Peak	0.00

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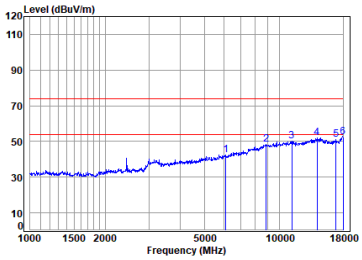
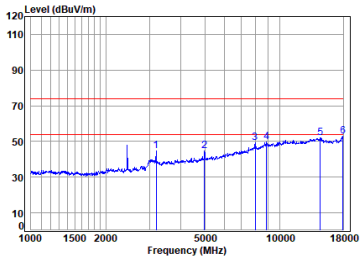
QHS_6M_TX_CH_19_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2440 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	6106.616	8.19	34.00	53.29	53.44	42.34	74.00	-31.66	Peak	0.00
2	8866.062	10.65	38.06	53.94	53.56	48.33	74.00	-25.67	Peak	0.00
3	11237.330	11.68	39.13	53.72	52.91	50.00	74.00	-24.00	Peak	0.00
4	14160.710	10.77	40.63	53.82	54.41	51.99	74.00	-22.01	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.70	51.07	74.00	-22.93	Peak	0.00
6	pp18000.000	14.49	43.20	51.50	46.47	52.66	74.00	-21.34	Peak	0.00

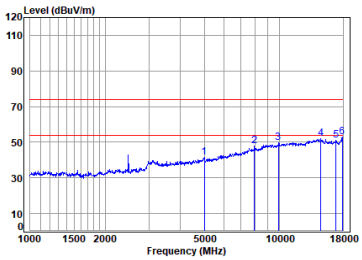
QHS_6M_TX_CH_19_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2440 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	3186.869	5.97	29.20	52.90	62.38	44.65	74.00	-29.35	Peak	0.00
2	4988.058	8.34	32.71	53.20	56.66	44.51	74.00	-29.49	Peak	0.00
3	7966.832	9.39	36.97	54.17	56.87	49.06	74.00	-24.94	Peak	0.00
4	8840.473	10.57	37.94	53.95	55.31	49.87	74.00	-24.13	Peak	0.00
5	14533.910	11.20	39.87	53.63	54.63	52.07	74.00	-21.93	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.74	53.08	74.00	-20.92	Peak	0.00

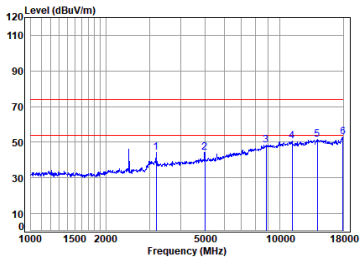
QHS_6M_TX_CH_38_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5002.497	8.35	32.91	53.20	53.51	41.57	74.00	-32.43	Peak	0.00
2	7943.838	9.38	36.95	54.15	55.95	48.13	74.00	-25.87	Peak	0.00
3	9923.991	11.86	38.85	54.09	52.91	49.53	74.00	-24.47	Peak	0.00
4	14660.480	11.51	40.40	53.57	53.57	51.91	74.00	-22.09	Peak	0.00
5	16891.040	14.58	38.62	51.83	49.88	51.25	74.00	-22.75	Peak	0.00
6	pp17896.250	14.48	41.55	51.52	48.29	52.80	74.00	-21.20	Peak	0.00

QHS_6M_TX_CH_38_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 6M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	3186.869	5.97	29.20	52.90	62.21	44.48	74.00	-29.52	Peak	0.00
2	5002.497	8.35	32.91	53.20	56.28	44.34	74.00	-29.66	Peak	0.00
3	8814.957	10.49	38.04	53.95	53.69	48.27	74.00	-25.73	Peak	0.00
4	11204.900	11.61	39.19	53.71	53.60	50.69	74.00	-23.31	Peak	0.00
5	14160.710	10.77	40.63	53.82	53.98	51.56	74.00	-22.44	Peak	0.00
6	pp17948.050	14.48	42.37	51.51	47.38	52.72	74.00	-21.28	Peak	0.00

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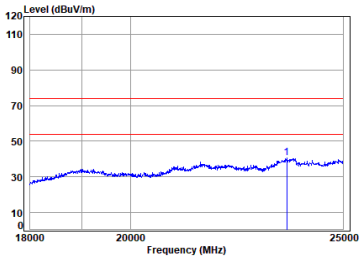
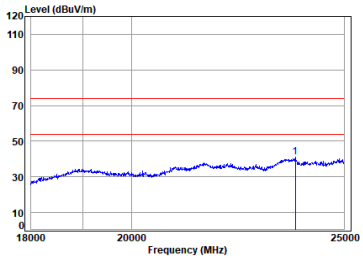
QHS_2M_TX_CH_38_Horizontal



Condition: 3m HORIZONTAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	23564.590	9.19	38.95	45.23	47.19	40.56	74.00	-33.44	Peak	-9.54

QHS_2M_TX_CH_38_Vertical



Condition: 3m VERTICAL
Job No : 00023AT
Mode : 2478 TX RSE
: QHS 2M R

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	23758.910	9.22	38.82	45.17	47.94	41.27	74.00	-32.73	Peak	-9.54

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7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)
Test Method: ANSI C63.10 (2020) Section 7.8.5
Test Engineer: Ian Li

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.

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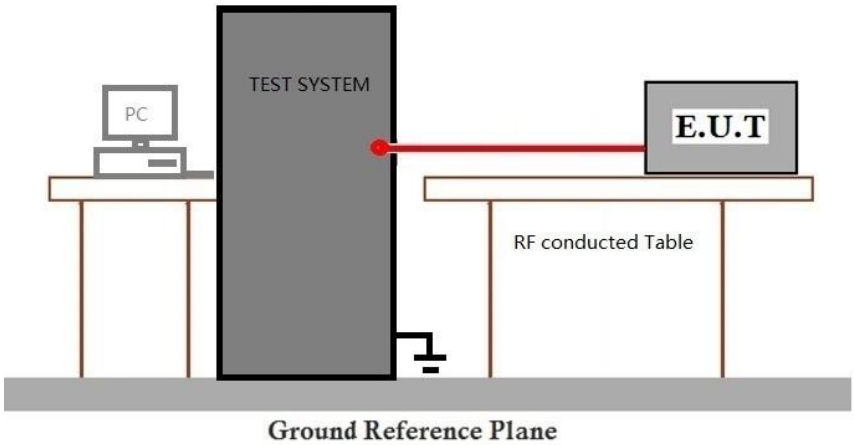
7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)
Test Method: ANSI C63.10 (2020) Section 6.9.2
Test Engineer: Ian Li

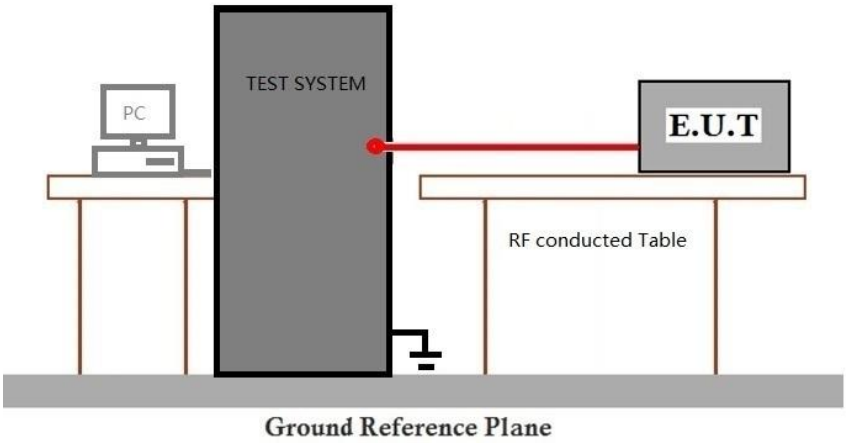
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.
Final test	07	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping with modulation mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)
Test Method: ANSI C63.10 (2020) Section 7.8.2
Test Engineer: Ian Li

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.6.1 E.U.T. Operation

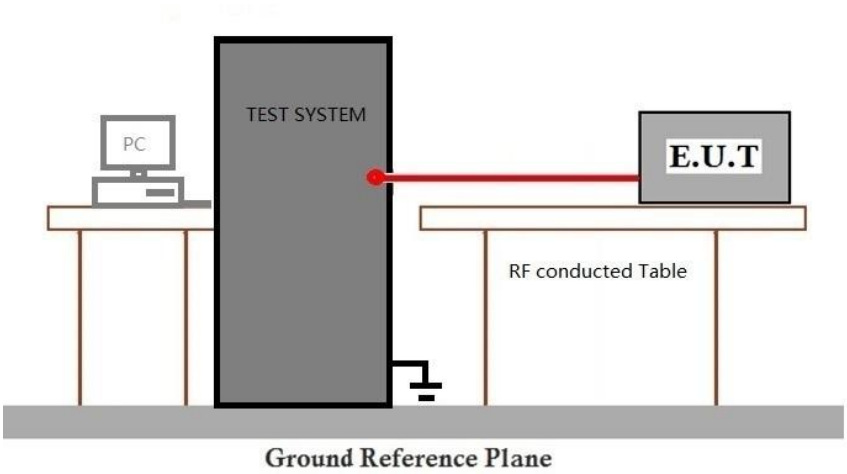
Operating Environment:

Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping with modulation mode.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2020) Section 7.8.3
Test Engineer: Ian Li

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping with modulation mode.

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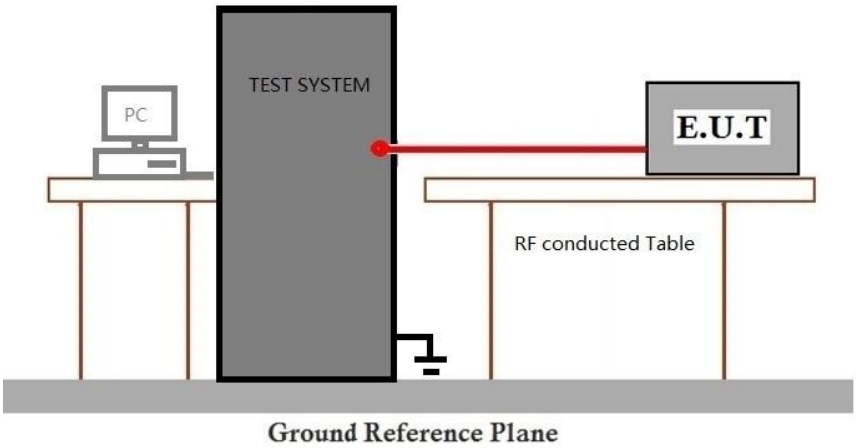
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)
Test Method: ANSI C63.10 (2020) Section 7.8.4
Test Engineer: Ian Li

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping with modulation mode.

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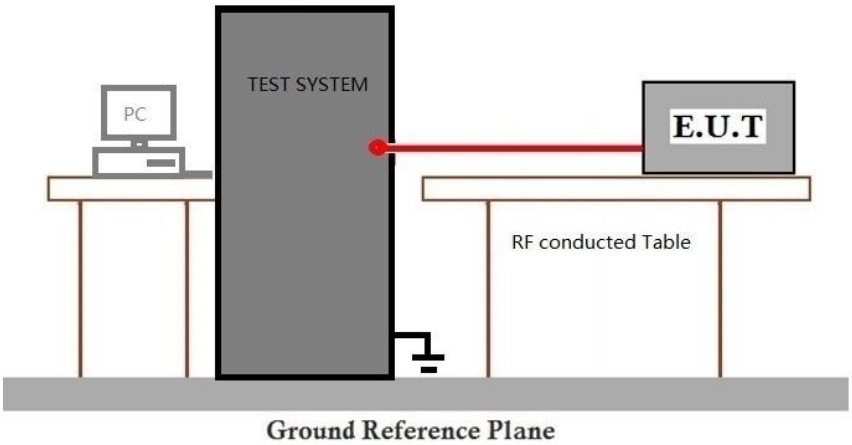
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2020) Section 7.8.7.2
Test Engineer: Ian Li

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:

Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.
Final test	07	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping with modulation mode.

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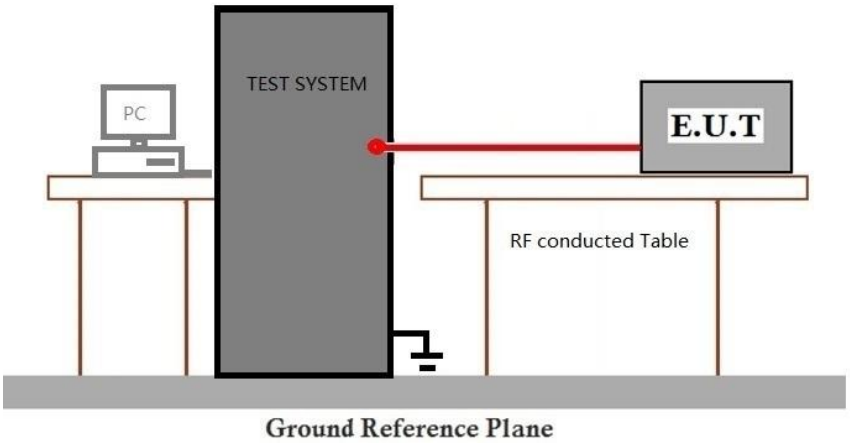
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2020) Section 7.8.7
Test Engineer: Ian Li

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).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 26.4 °C Humidity: 45.6 % RH Atmospheric Pressure: 1000 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting with modulation mode.

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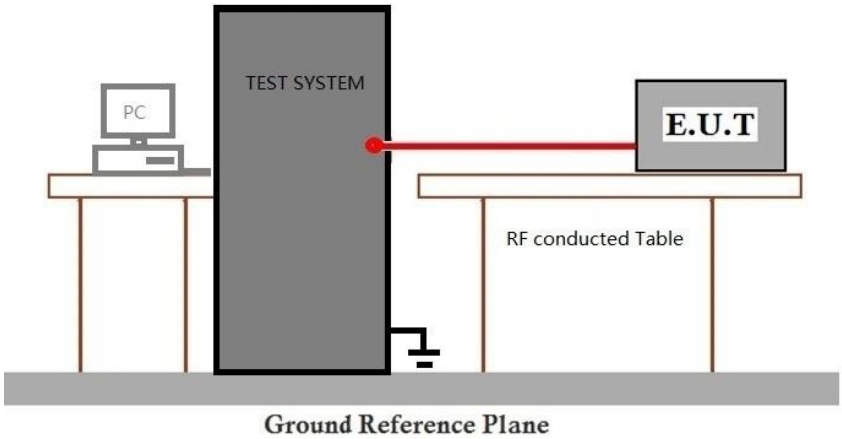
7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2605000023AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2605000023AT

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10 Appendix

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 (%)
QHS 2M	SISO	2404	4.205	5.000	84.10	0.75	0.03
		2440	4.203	4.999	84.08	0.75	0.04
		2478	4.203	4.999	84.08	0.75	0.04
QHS 4M	SISO	2404	2.142	2.500	85.68	0.67	0.03
		2440	2.142	2.500	85.68	0.67	0.03
		2478	2.142	2.500	85.68	0.67	0.03
QHS 5M	SISO	2404	1.732	2.500	69.28	1.59	0.02
		2440	1.731	2.500	69.24	1.60	0.02
		2478	1.731	2.500	69.24	1.60	0.02
QHS 6M	SISO	2404	1.456	2.499	58.26	2.35	0.01
		2440	1.456	2.500	58.24	2.35	0.01
		2478	1.456	2.500	58.24	2.35	0.01

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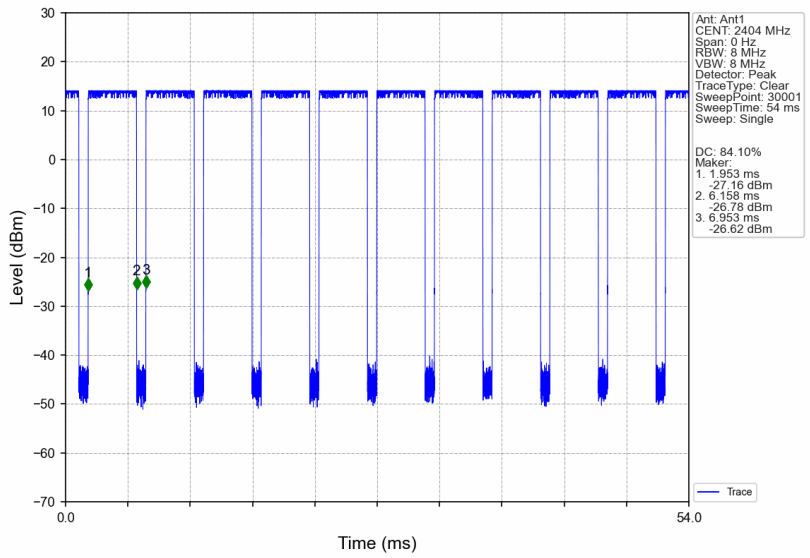
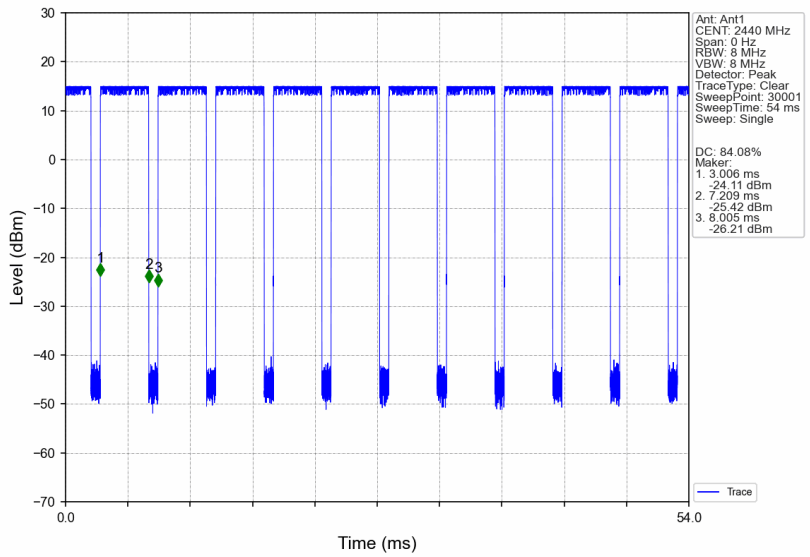
1.2 Test Graph

1.2.1 Ant1

QHS 2M_LCH_2404MHz_Ant1_NTNV



QHS 2M_MCH_2440MHz_Ant1_NTNV



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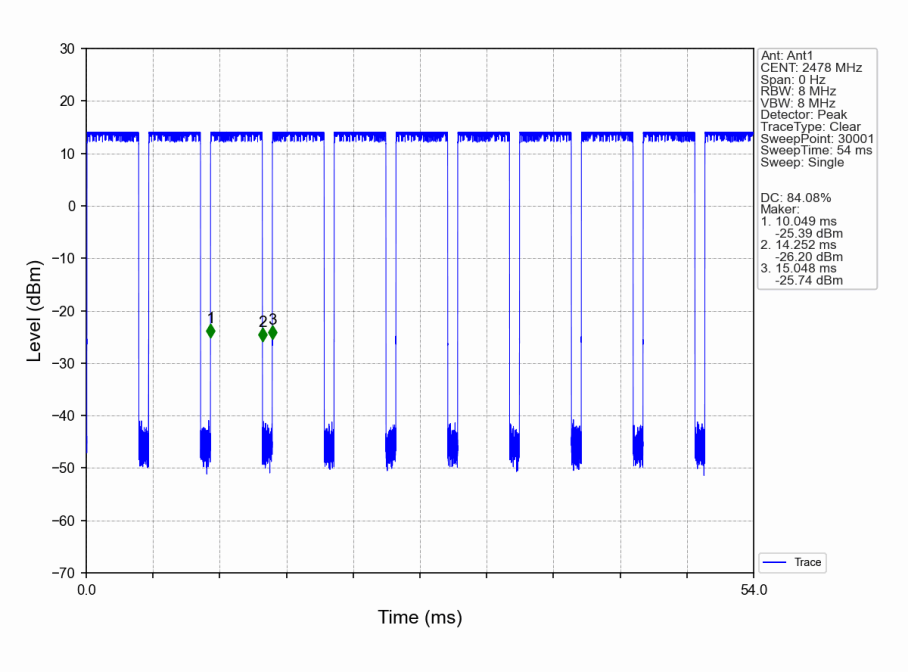
QHS 2M_HCH_2478MHz_Ant1_NTNV



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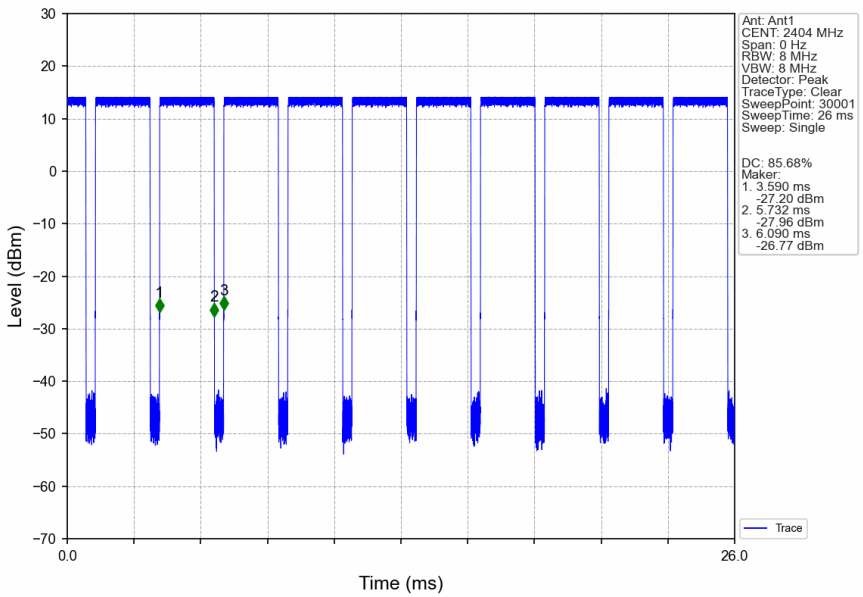

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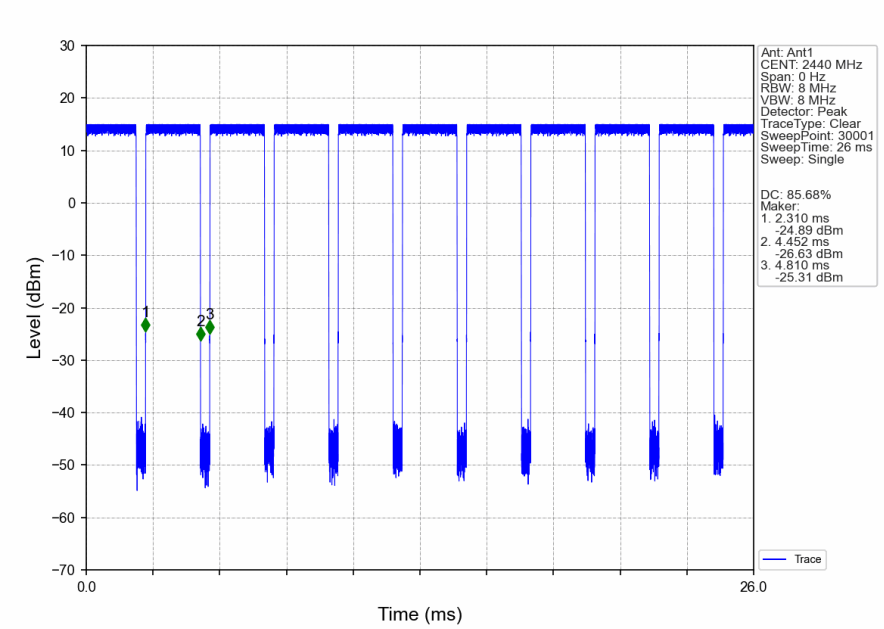
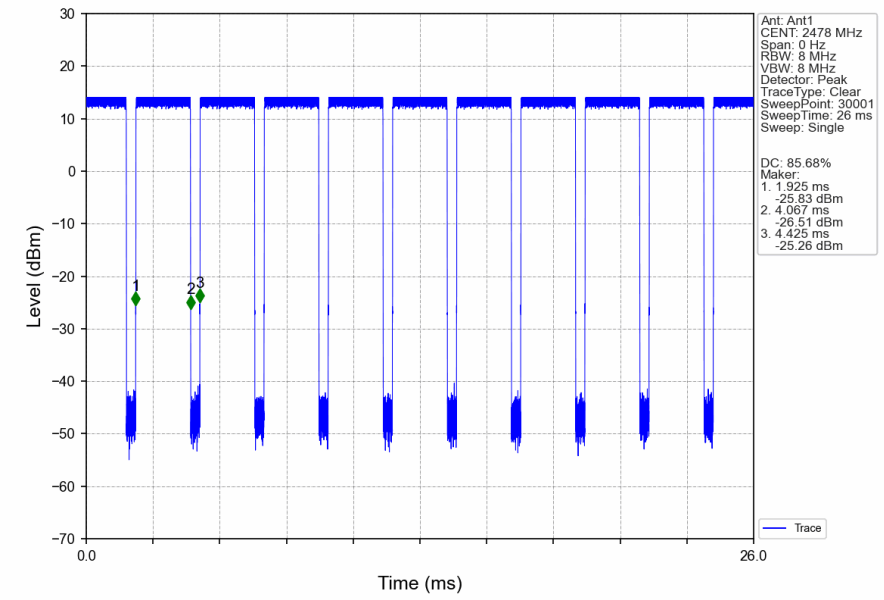
QHS 4M_MCH_2440MHz_Ant1_NTNV



QHS 4M_HCH_2478MHz_Ant1_NTNV



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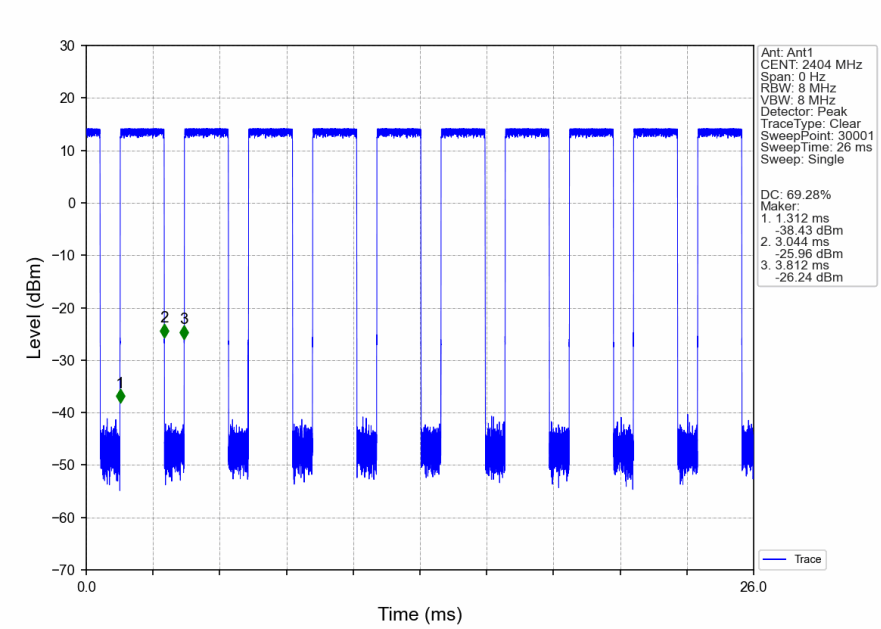
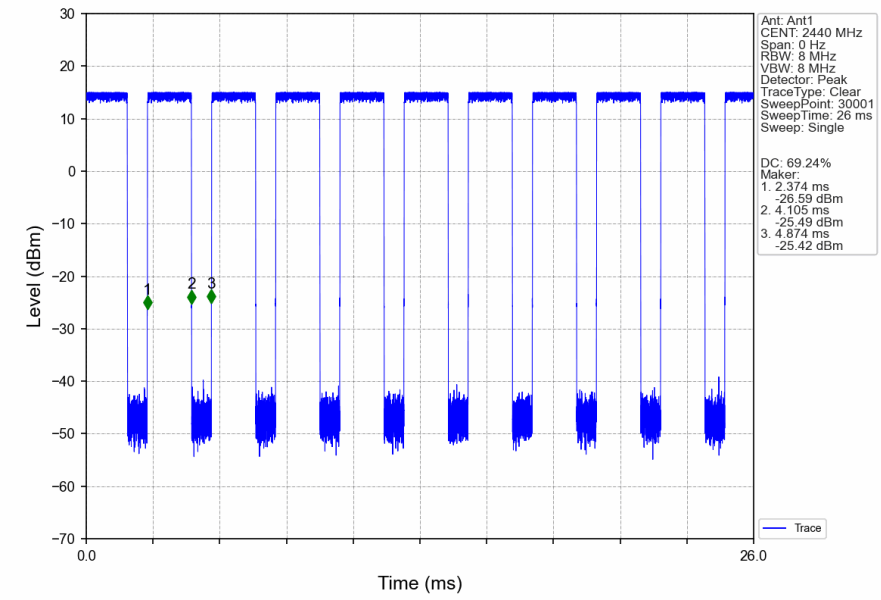
QHS 5M_LCH_2404MHz_Ant1_NTNV



QHS 5M_MCH_2440MHz_Ant1_NTNV



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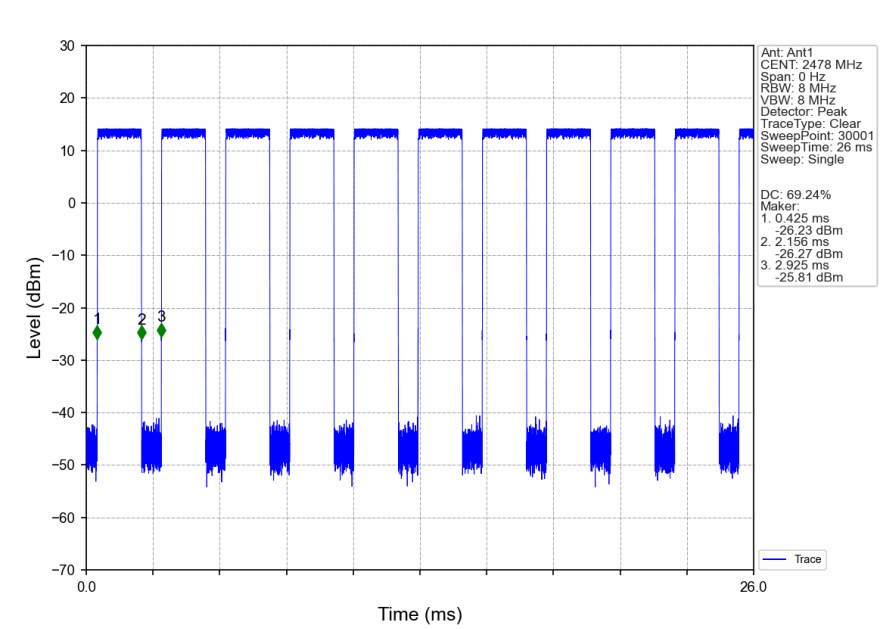
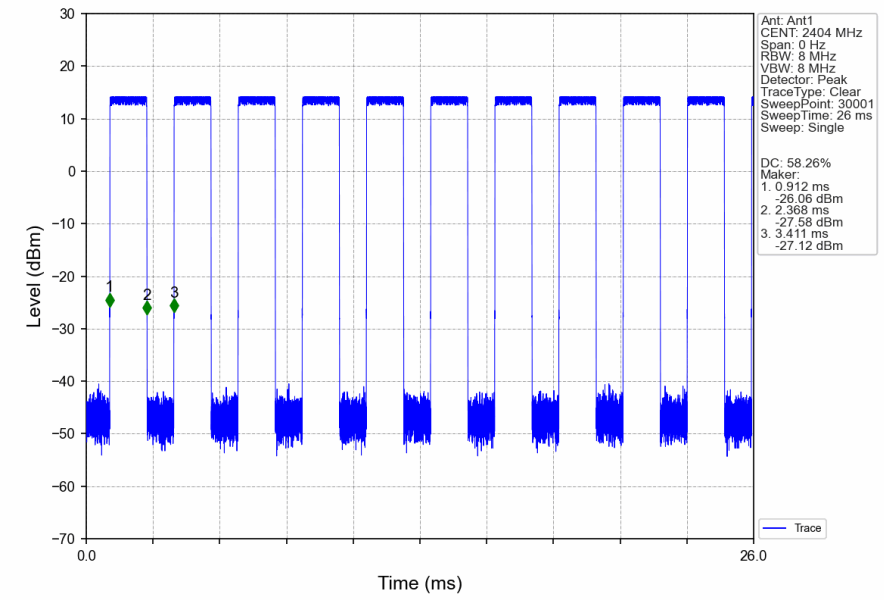
QHS 5M_HCH_2478MHz_Ant1_NTNV



QHS 6M_LCH_2404MHz_Ant1_NTNV



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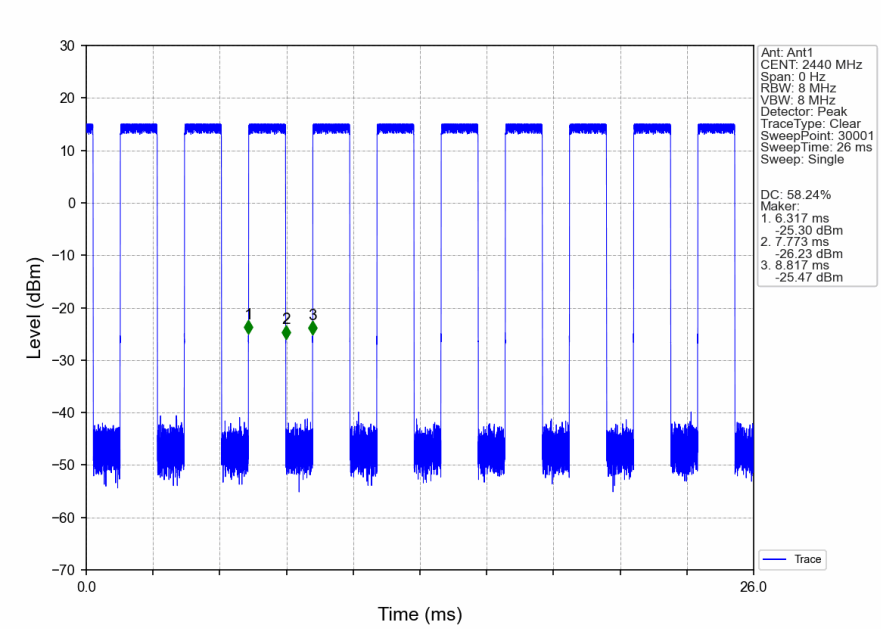
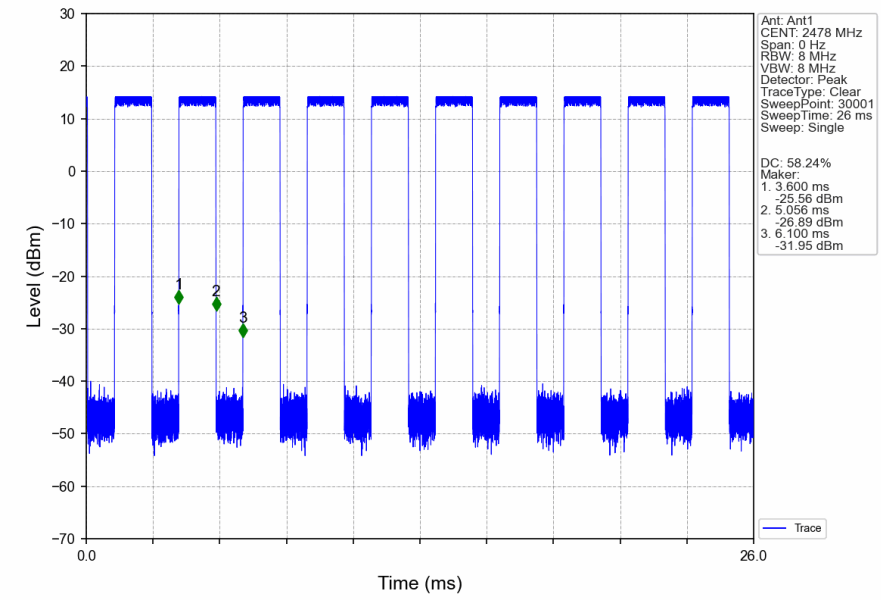


QHS 6M_HCH_2478MHz_Ant1_NTNV



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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	
QHS 2M	SISO	2404	1	2.379	/	Pass
		2440	1	2.382	/	Pass
		2478	1	2.375	/	Pass
QHS 4M	SISO	2404	1	2.383	/	Pass
		2440	1	2.379	/	Pass
		2478	1	2.376	/	Pass
QHS 5M	SISO	2404	1	2.376	/	Pass
		2440	1	2.370	/	Pass
		2478	1	2.368	/	Pass
QHS 6M	SISO	2404	1	2.387	/	Pass
		2440	1	2.378	/	Pass
		2478	1	2.376	/	Pass

2.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
QHS 2M	SISO	2404	1	2.560	/	Pass
		2440	1	2.561	/	Pass
		2478	1	2.564	/	Pass
QHS 4M	SISO	2404	1	2.632	/	Pass
		2440	1	2.631	/	Pass
		2478	1	2.630	/	Pass
QHS 5M	SISO	2404	1	2.566	/	Pass
		2440	1	2.562	/	Pass
		2478	1	2.563	/	Pass
QHS 6M	SISO	2404	1	2.560	/	Pass
		2440	1	2.534	/	Pass
		2478	1	2.533	/	Pass

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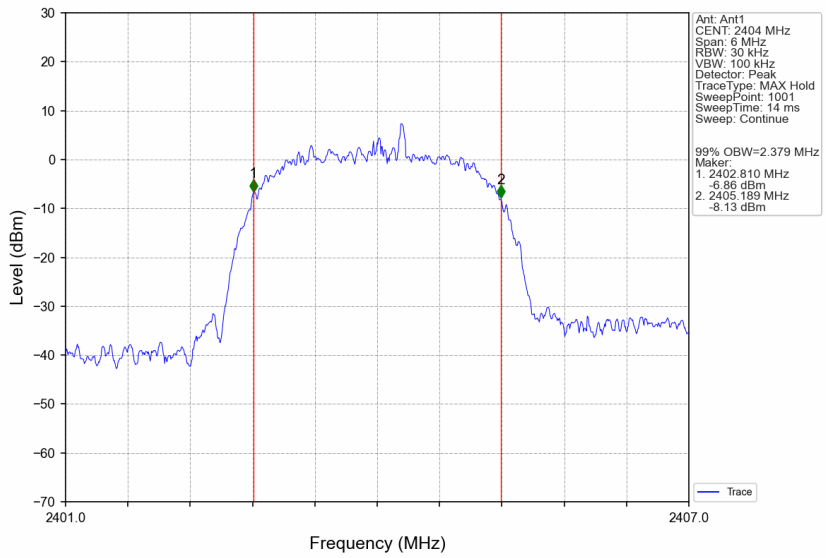
2.2 Test Graph

2.2.1 OBW

QHS 2M_LCH_2404MHz_Ant1_NTNV



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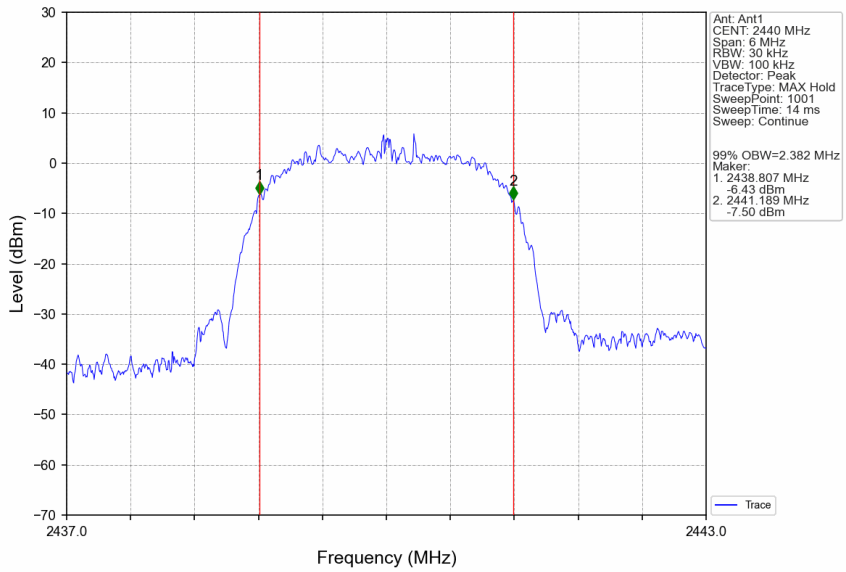

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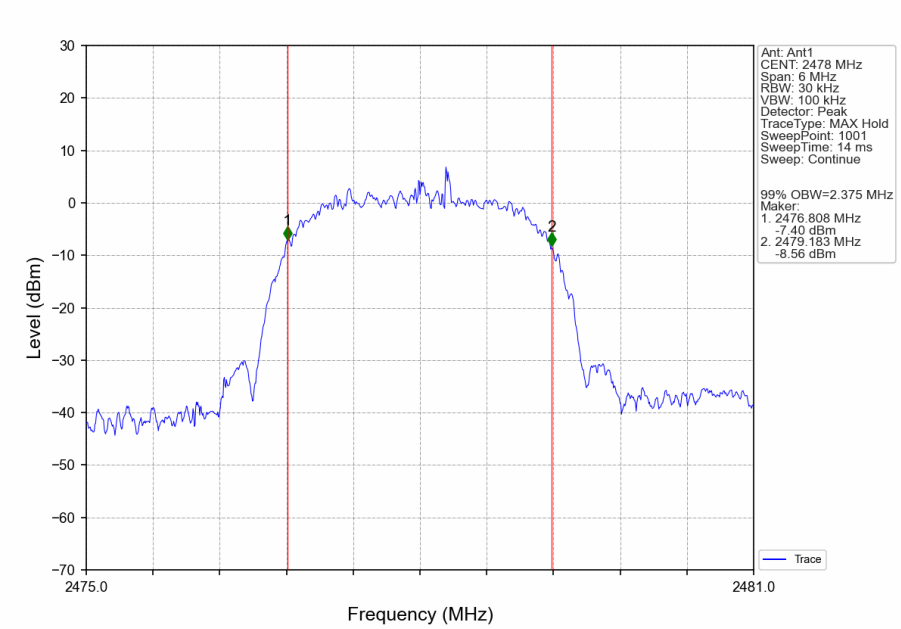
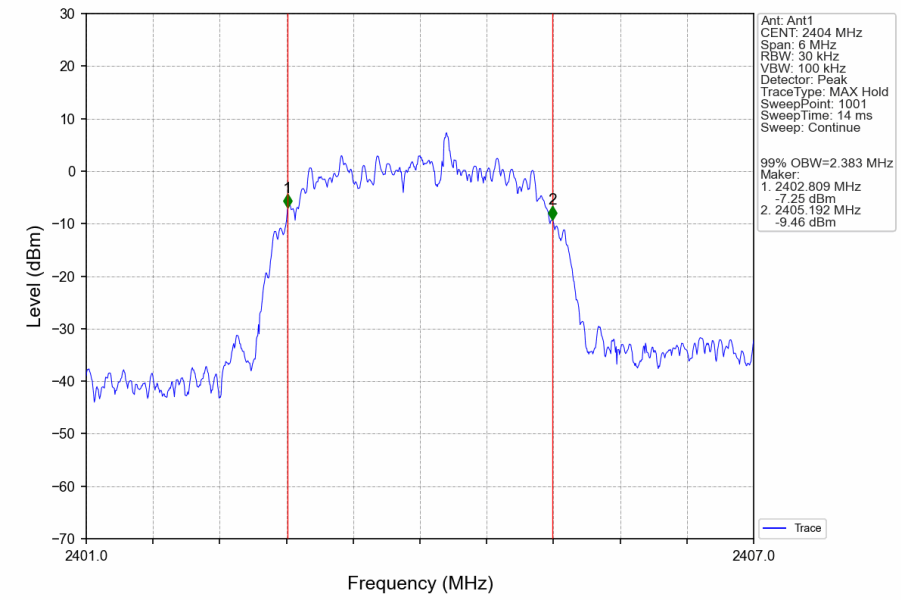
QHS 2M_HCH_2478MHz_Ant1_NTNV



QHS 4M_LCH_2404MHz_Ant1_NTNV



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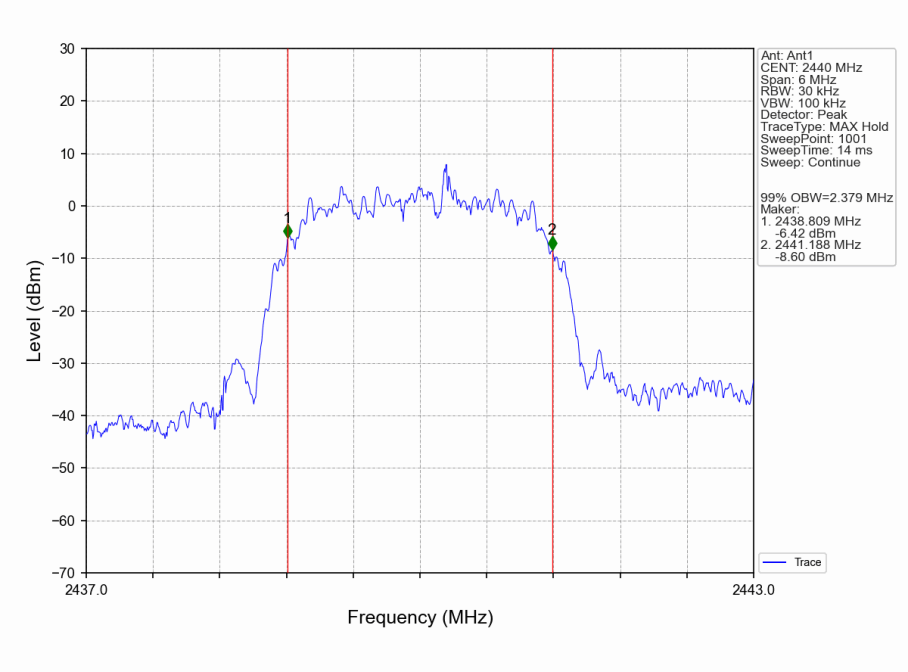
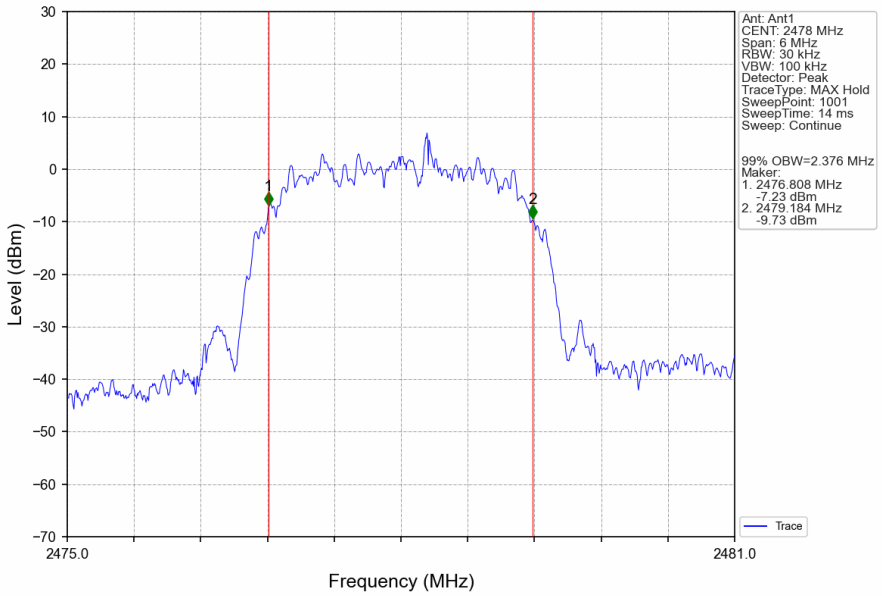
QHS 4M_MCH_2440MHz_Ant1_NTNV



QHS 4M_HCH_2478MHz_Ant1_NTNV



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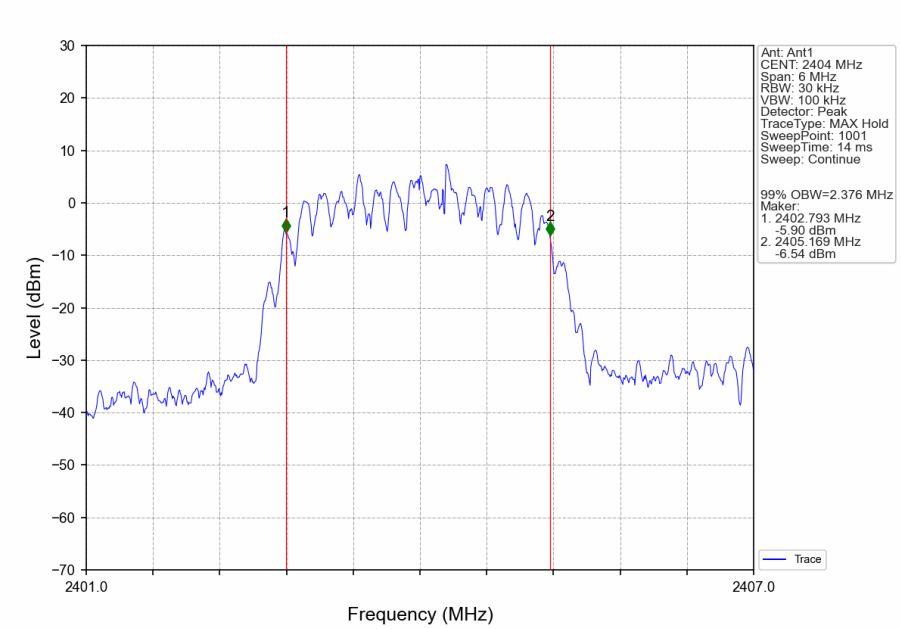
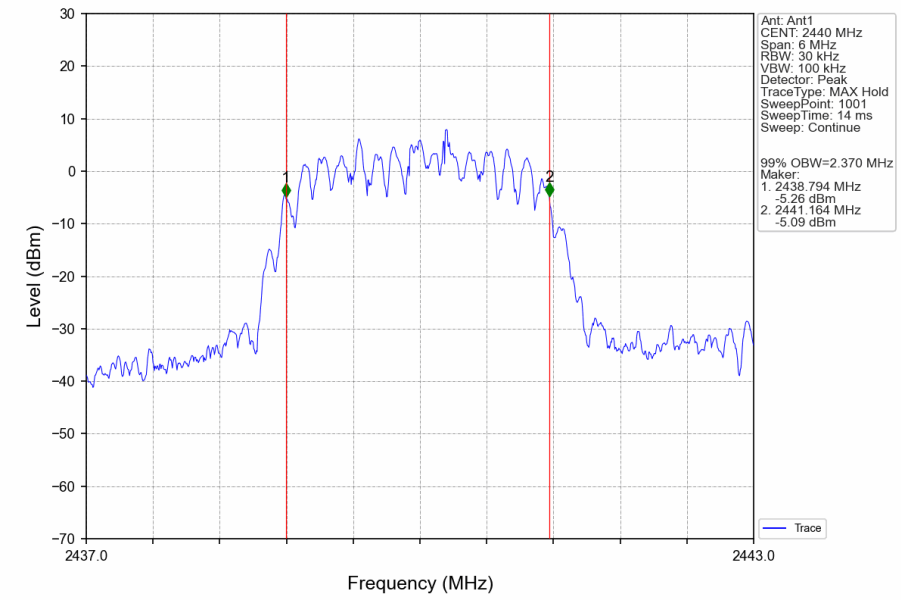
QHS 5M_LCH_2404MHz_Ant1_NTNV



QHS 5M_MCH_2440MHz_Ant1_NTNV



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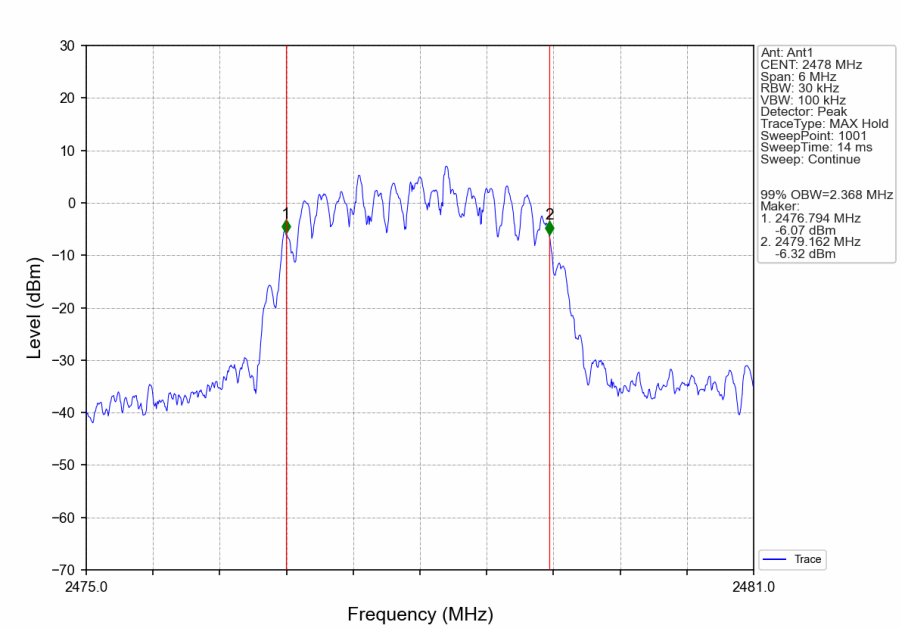
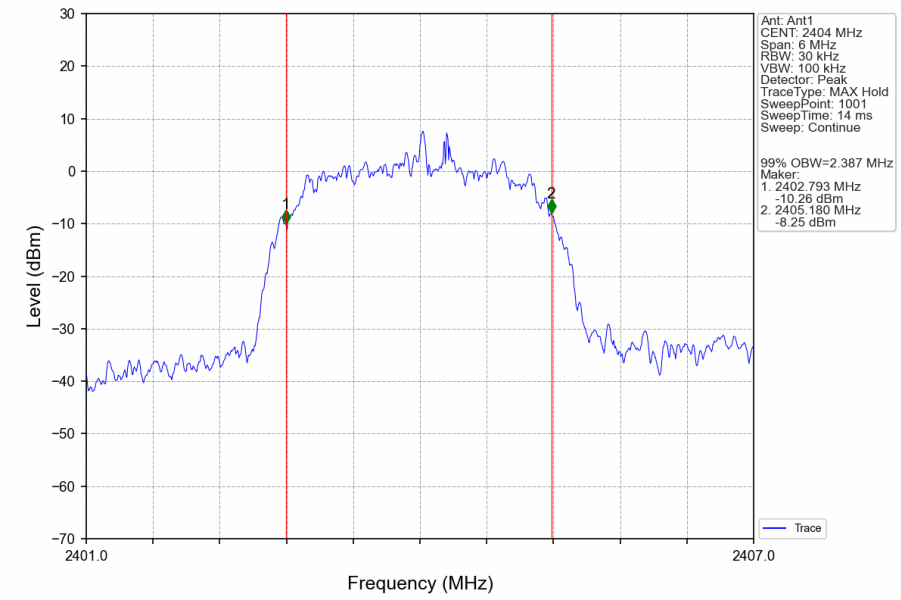
QHS 5M_HCH_2478MHz_Ant1_NTNV



QHS 6M_LCH_2404MHz_Ant1_NTNV



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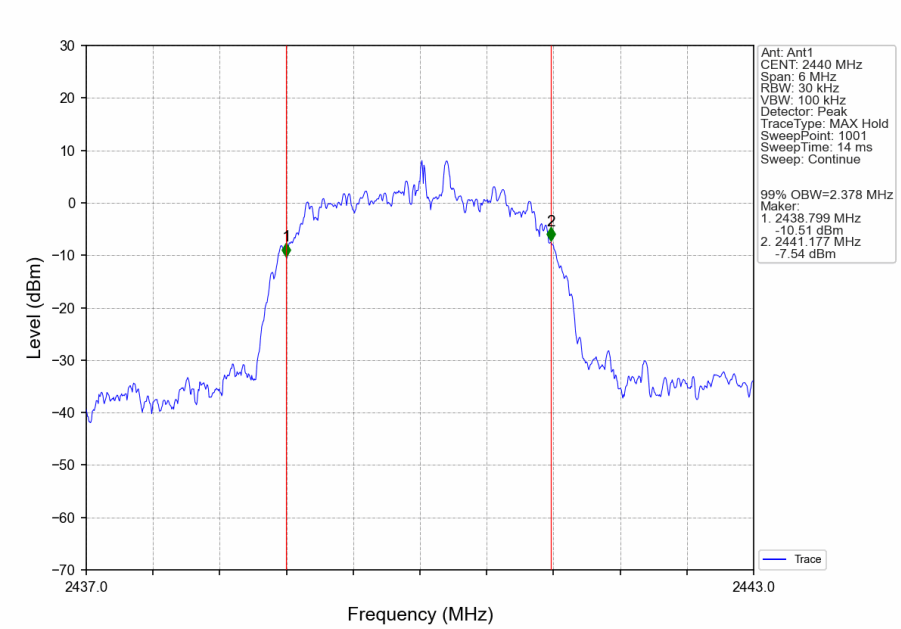
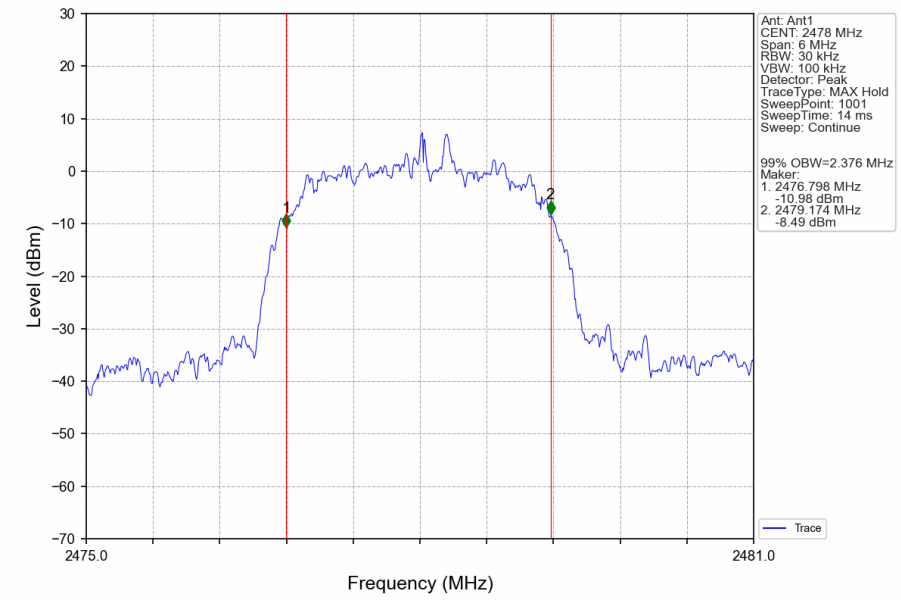
QHS 6M_MCH_2440MHz_Ant1_NTNV



QHS 6M_HCH_2478MHz_Ant1_NTNV



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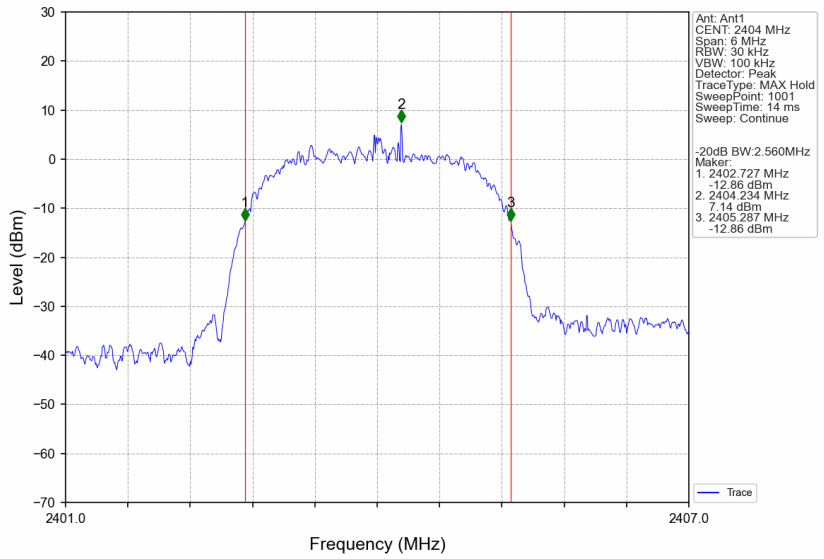
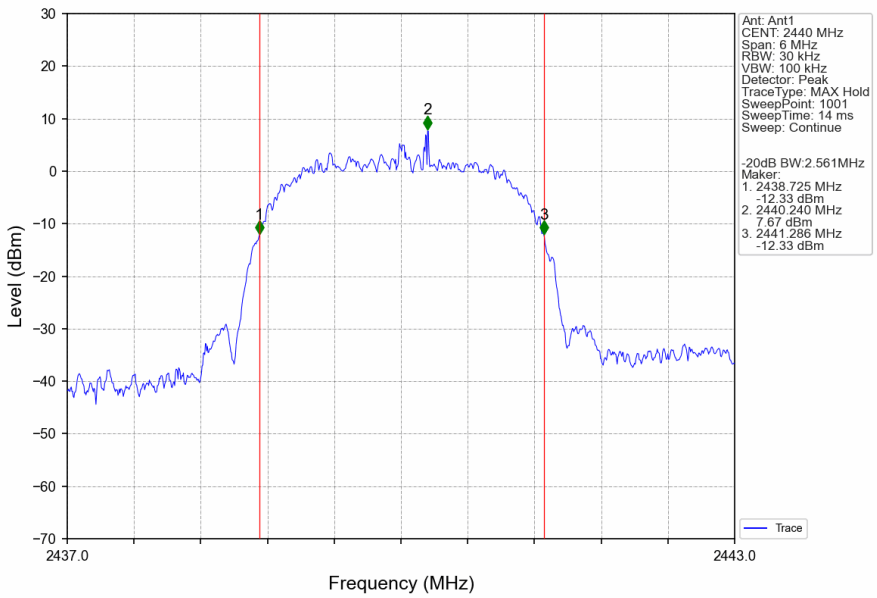
2.2.2 20dB BW

QHS 2M_LCH_2404MHz_Ant1_NTNV



QHS 2M_MCH_2440MHz_Ant1_NTNV



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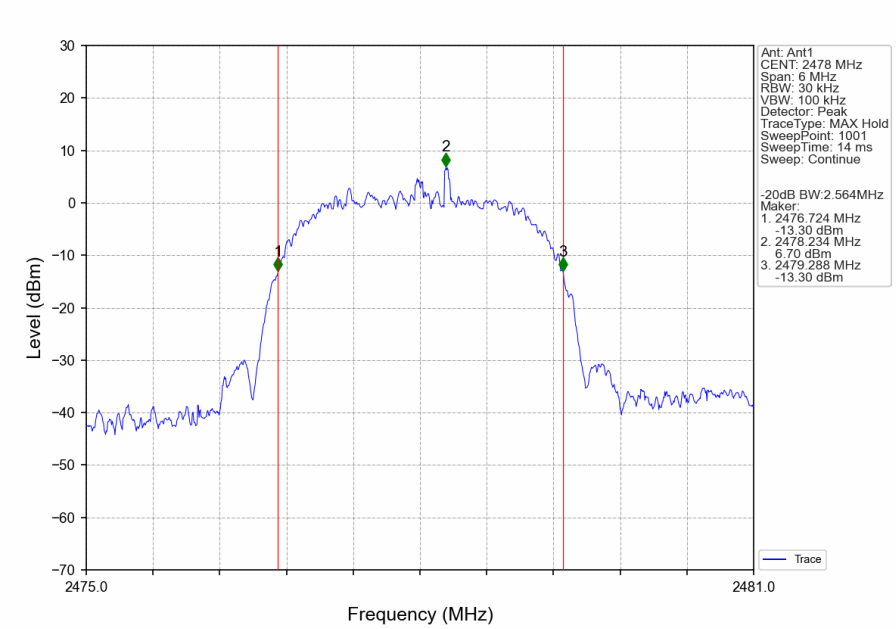
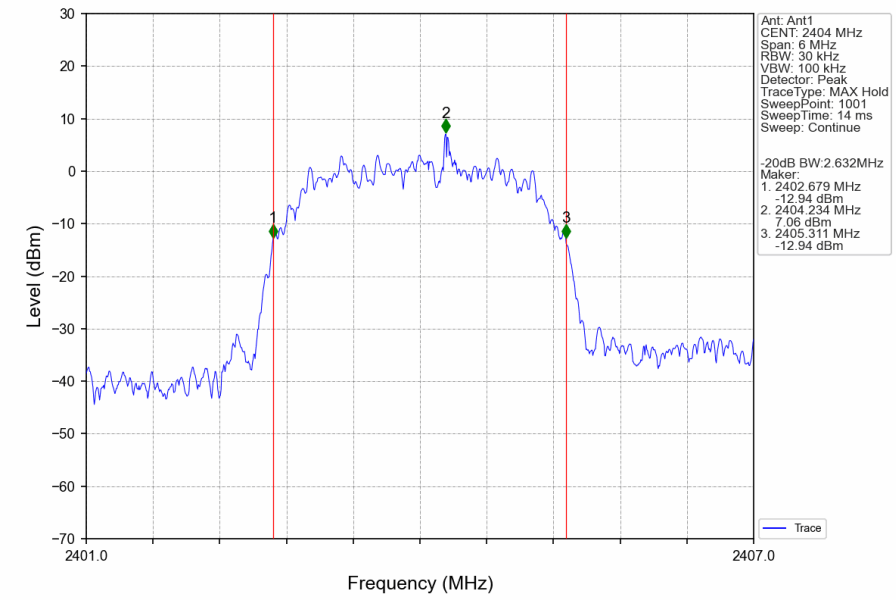
QHS 2M_HCH_2478MHz_Ant1_NTNV



QHS 4M_LCH_2404MHz_Ant1_NTNV



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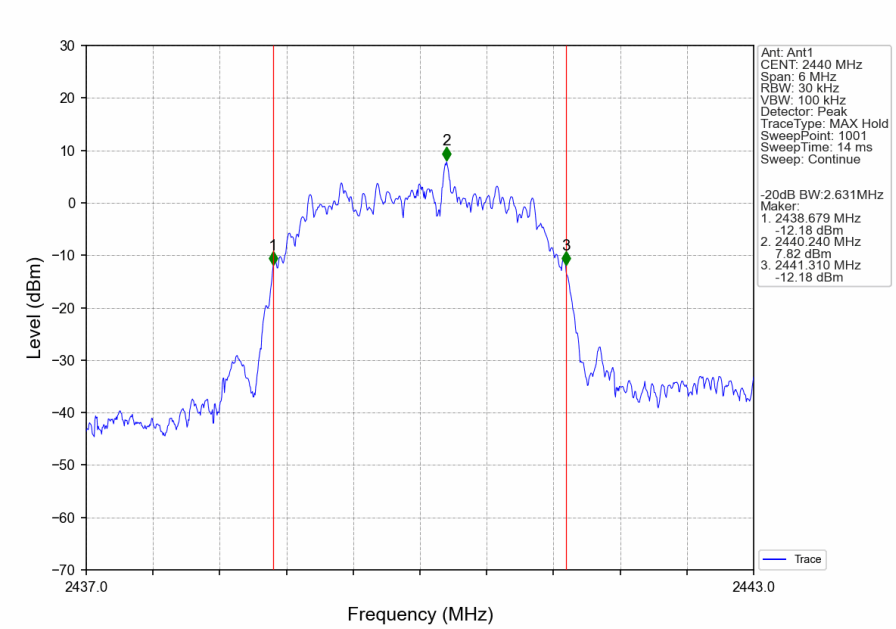
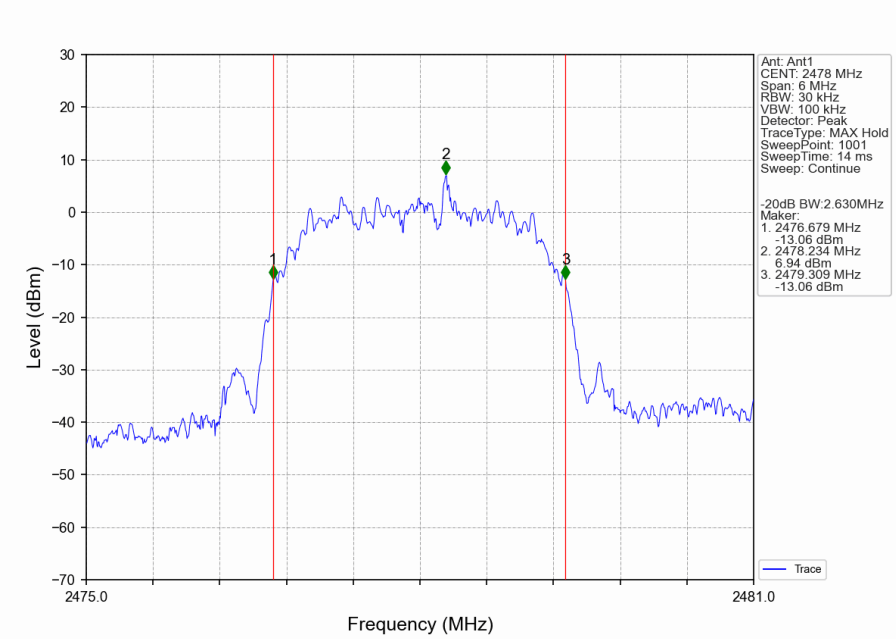
QHS 4M_MCH_2440MHz_Ant1_NTNV



QHS 4M_HCH_2478MHz_Ant1_NTNV



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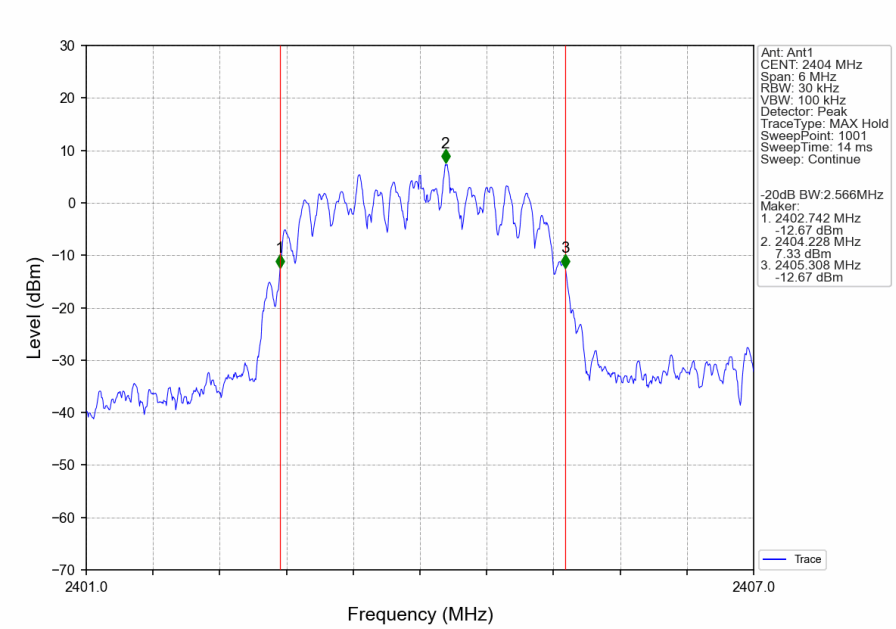
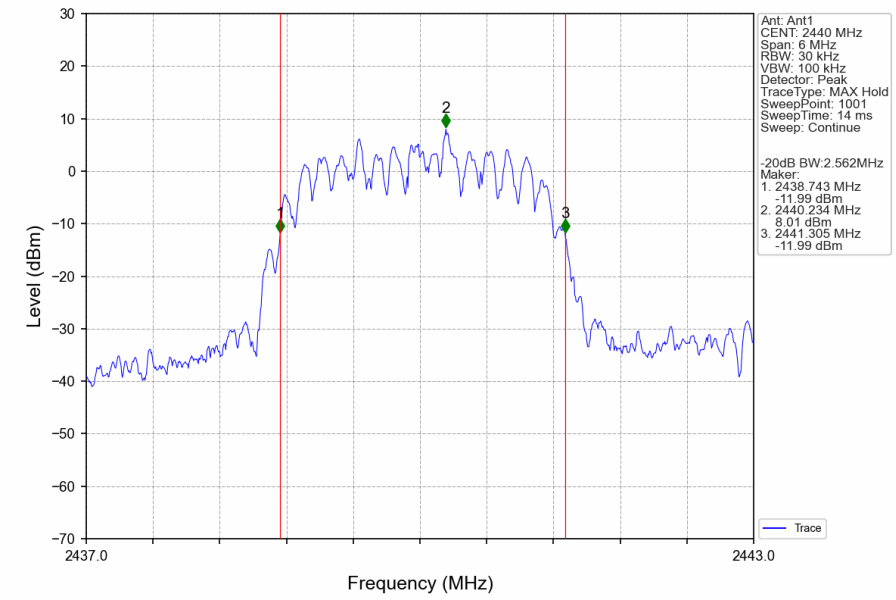
QHS 5M_LCH_2404MHz_Ant1_NTNV



QHS 5M_MCH_2440MHz_Ant1_NTNV



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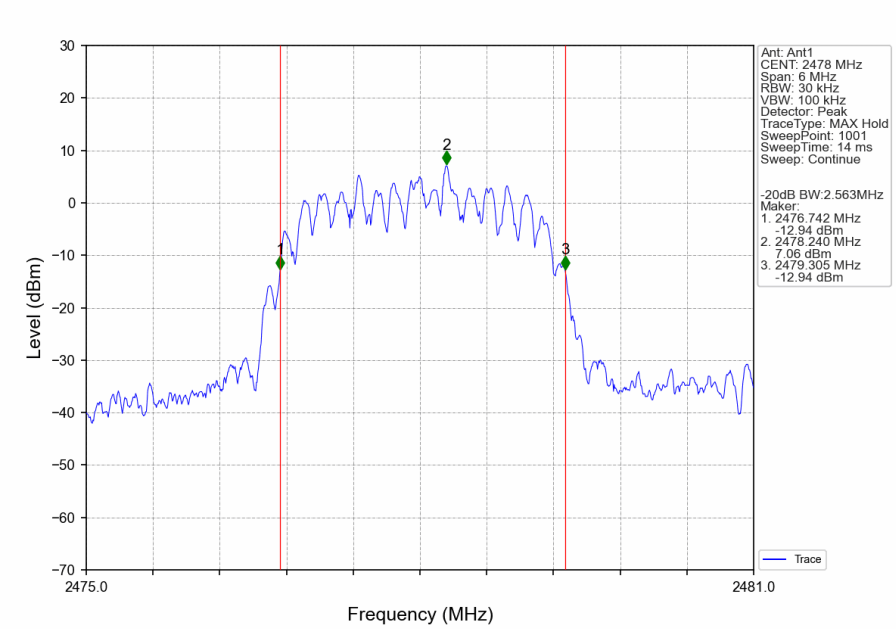
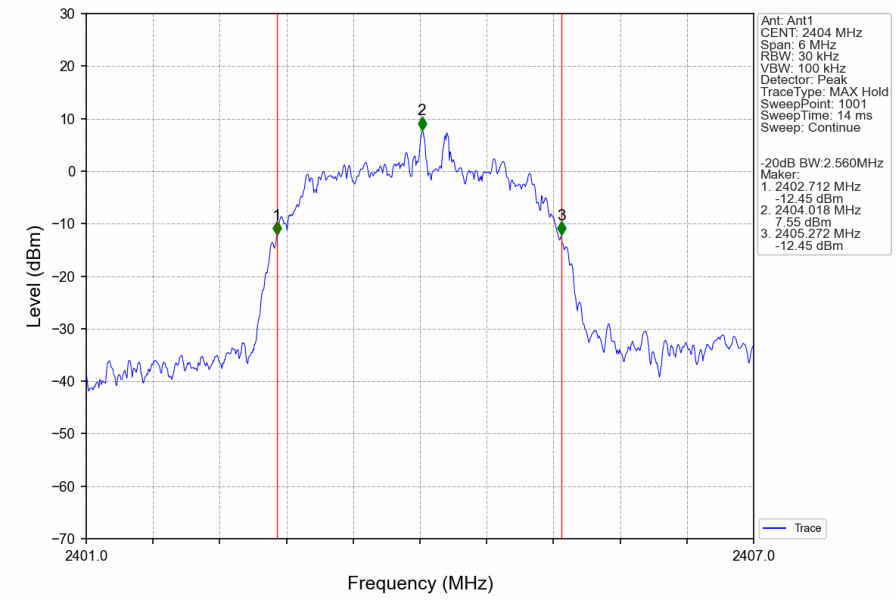
QHS 5M_HCH_2478MHz_Ant1_NTNV



QHS 6M_LCH_2404MHz_Ant1_NTNV



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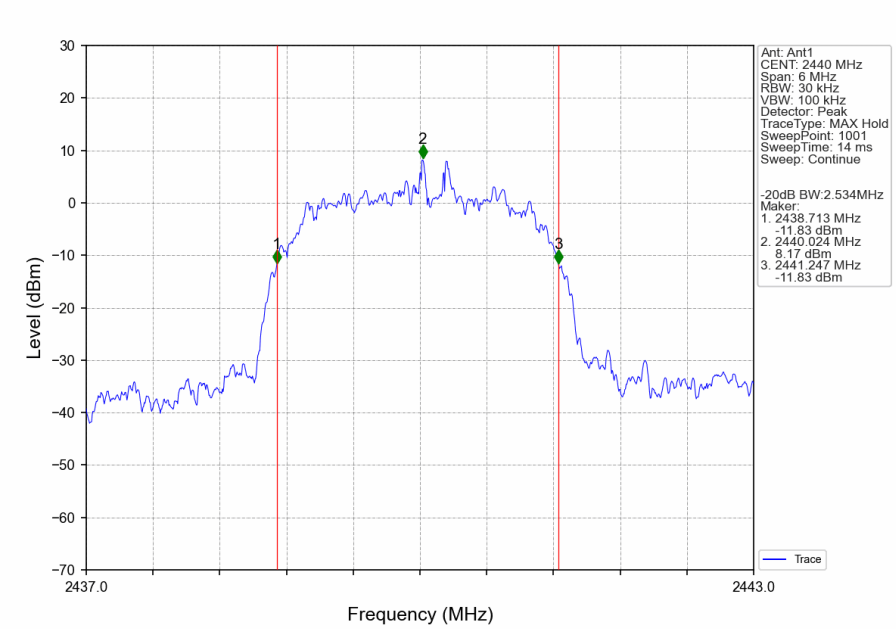
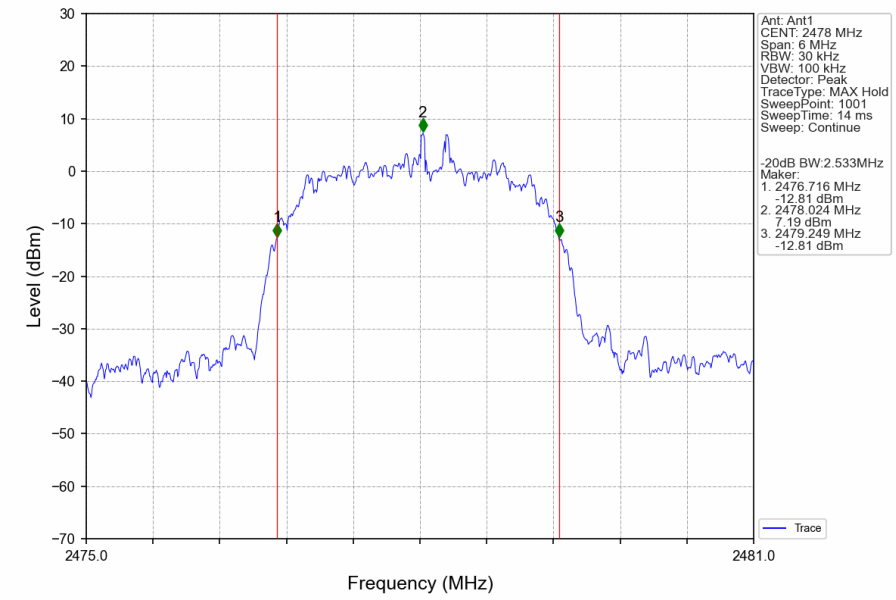
QHS 6M_MCH_2440MHz_Ant1_NTNV



QHS 6M_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	
QHS 2M	SISO	2404	13.95	<=20.97	Pass
		2440	14.80	<=20.97	Pass
		2478	13.96	<=20.97	Pass
QHS 4M	SISO	2404	13.94	<=20.97	Pass
		2440	14.80	<=20.97	Pass
		2478	13.95	<=20.97	Pass
QHS 5M	SISO	2404	14.02	<=20.97	Pass
		2440	14.87	<=20.97	Pass
		2478	14.05	<=20.97	Pass
QHS 6M	SISO	2404	14.03	<=20.97	Pass
		2440	14.88	<=20.97	Pass
		2478	14.10	<=20.97	Pass
Note1: Antenna Gain: Ant1: -4.53dBi;					

4. Carrier Frequency Separation

4.1 Test Result

4.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
QHS 2M	SISO	HOPP	1.996	2.564	>=1.709	Pass
QHS 4M	SISO	HOPP	2.020	2.632	>=1.755	Pass
QHS 5M	SISO	HOPP	2.000	2.566	>=1.711	Pass
QHS 6M	SISO	HOPP	2.000	2.560	>=1.707	Pass

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4.2 Test Graph

4.2.1 Ant1

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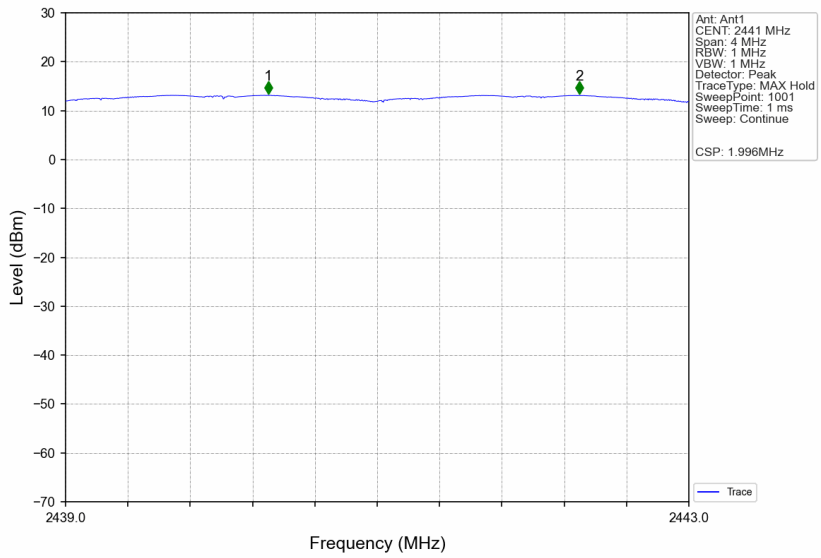

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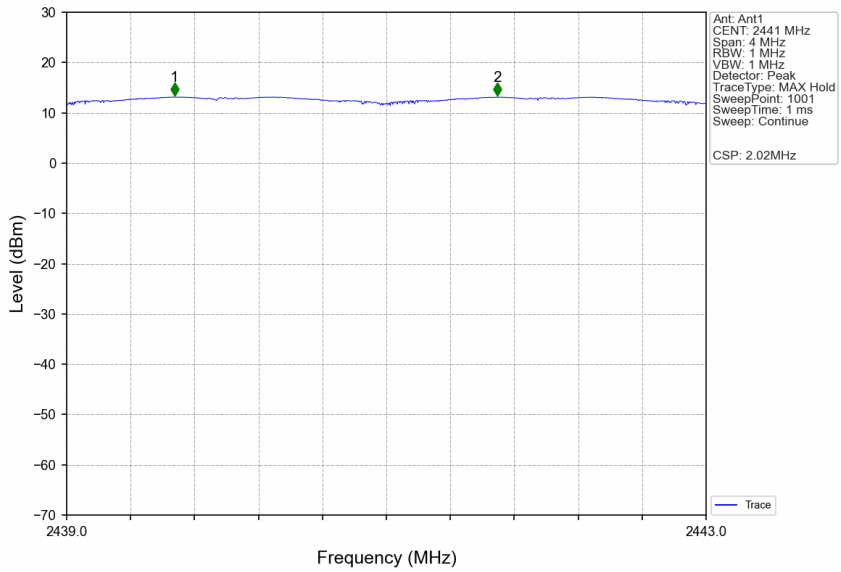

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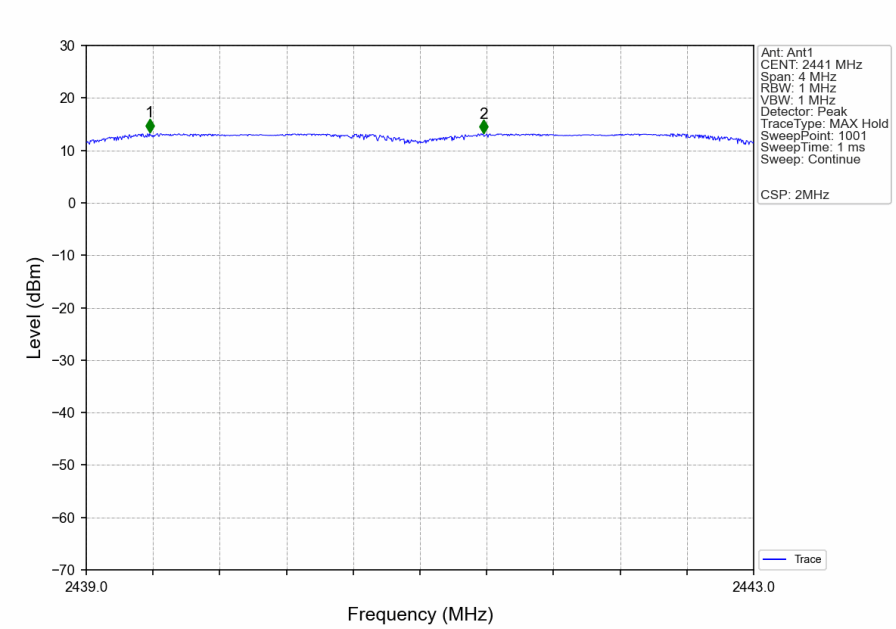

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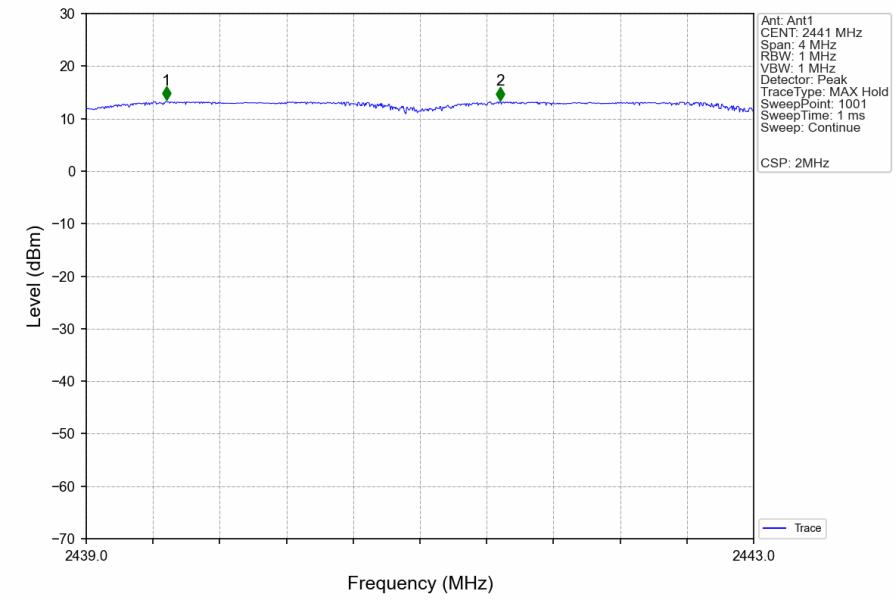

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5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
QHS 2M	SISO	HOPP	38	>=15	Pass
QHS 4M	SISO	HOPP	38	>=15	Pass
QHS 5M	SISO	HOPP	38	>=15	Pass
QHS 6M	SISO	HOPP	38	>=15	Pass

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5.2 Test Graph

5.2.1 HoppNum

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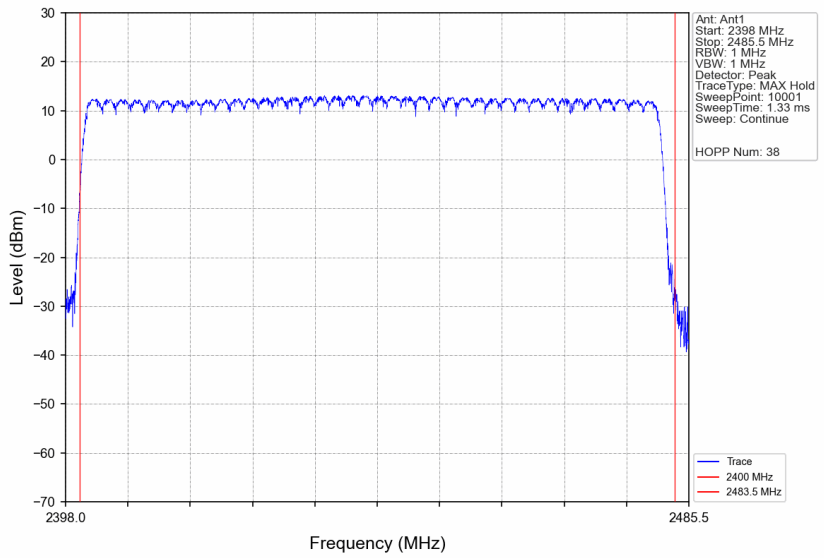

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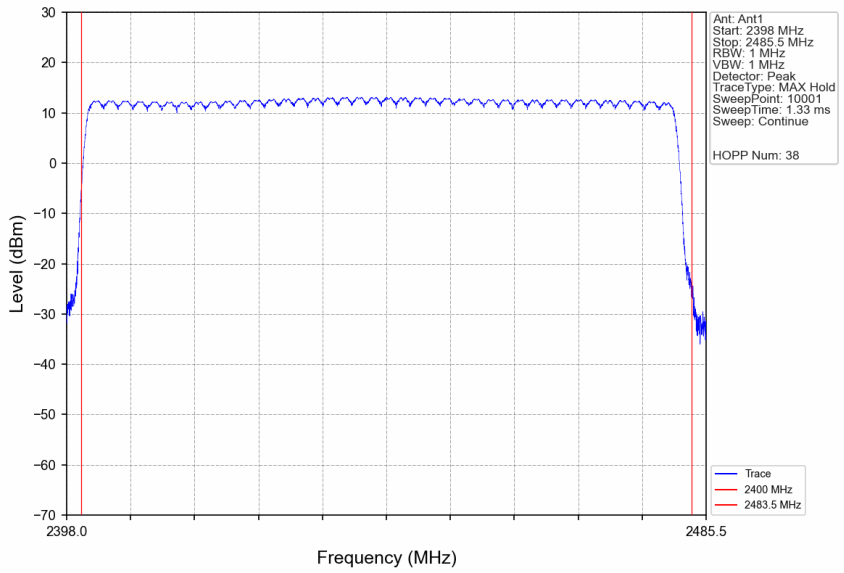

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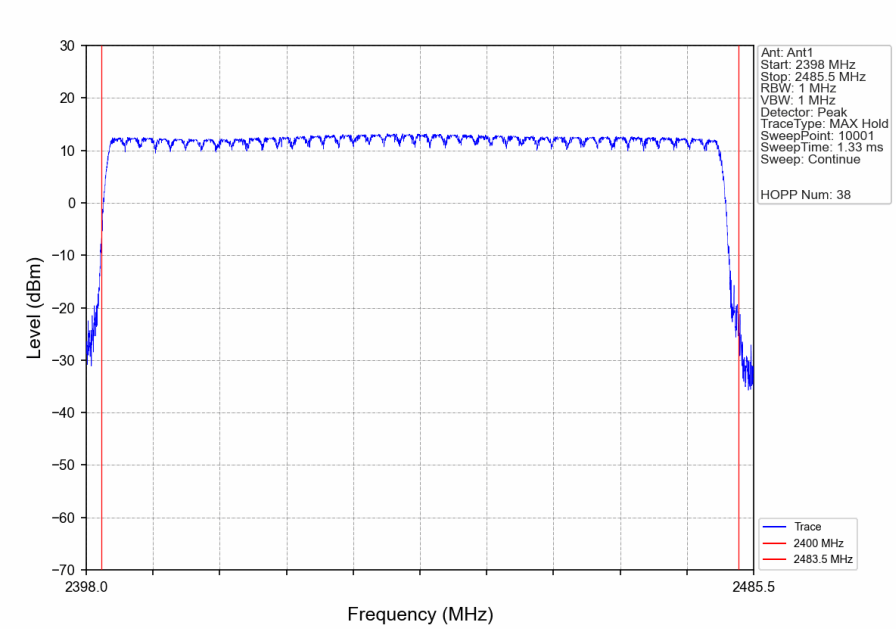

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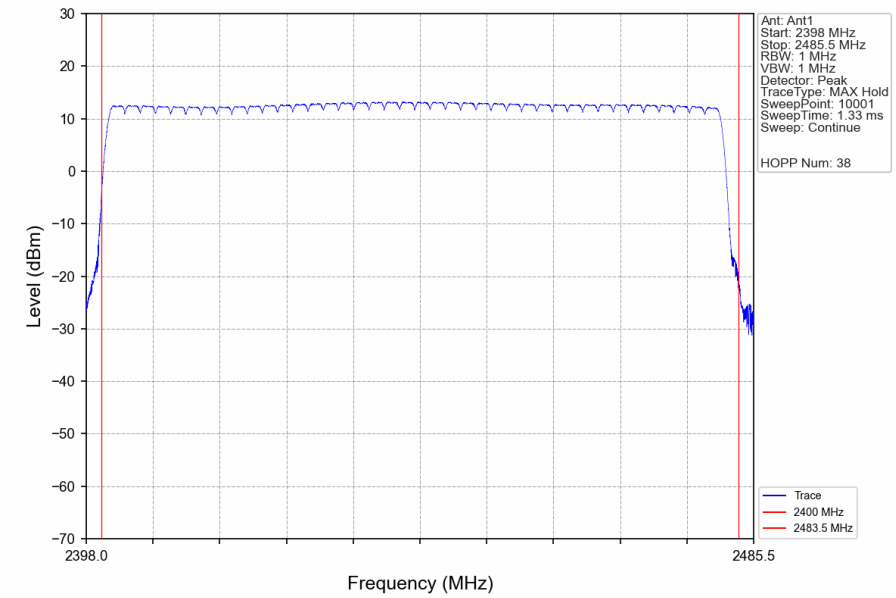

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6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 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
QHS 2M	SISO	HOPP	1.118	15.200	202	225.836	<=400	Pass
QHS 4M	SISO	HOPP	0.590	15.200	304	179.360	<=400	Pass
QHS 5M	SISO	HOPP	0.488	15.200	304	148.352	<=400	Pass
QHS 6M	SISO	HOPP	0.418	15.200	304	127.072	<=400	Pass

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6.2 Test Graph

6.2.1 Ant1

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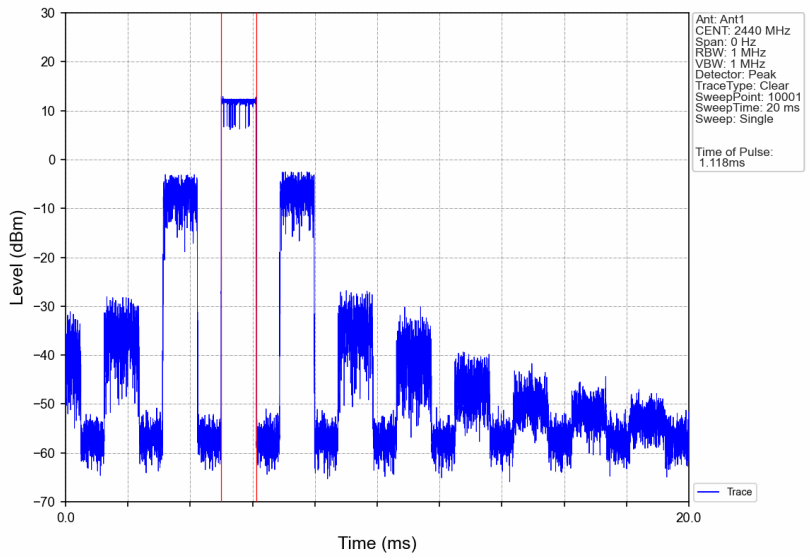

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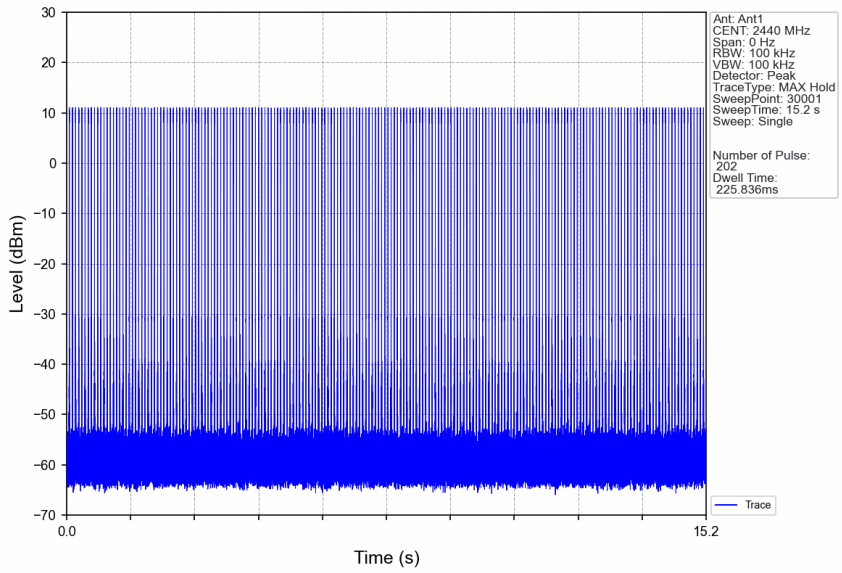

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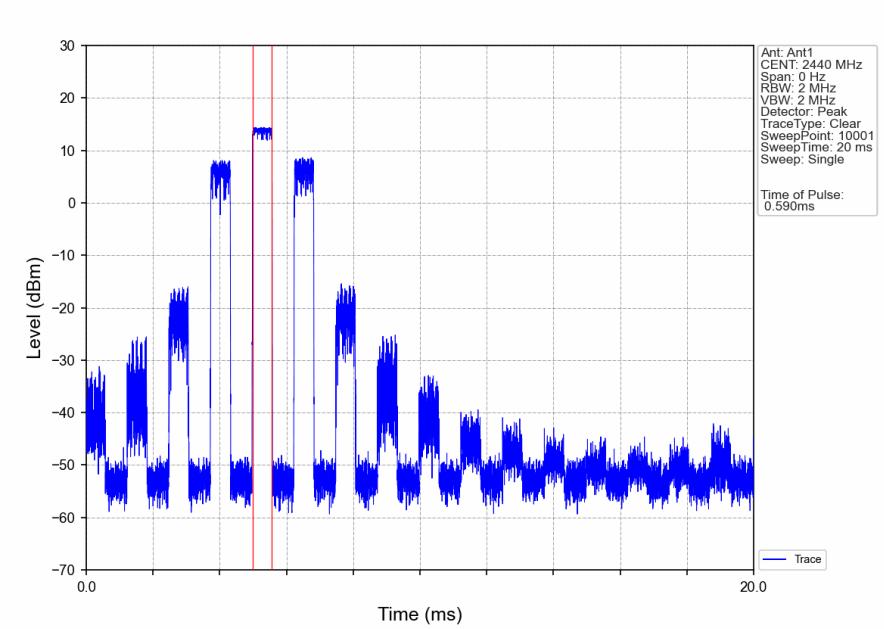

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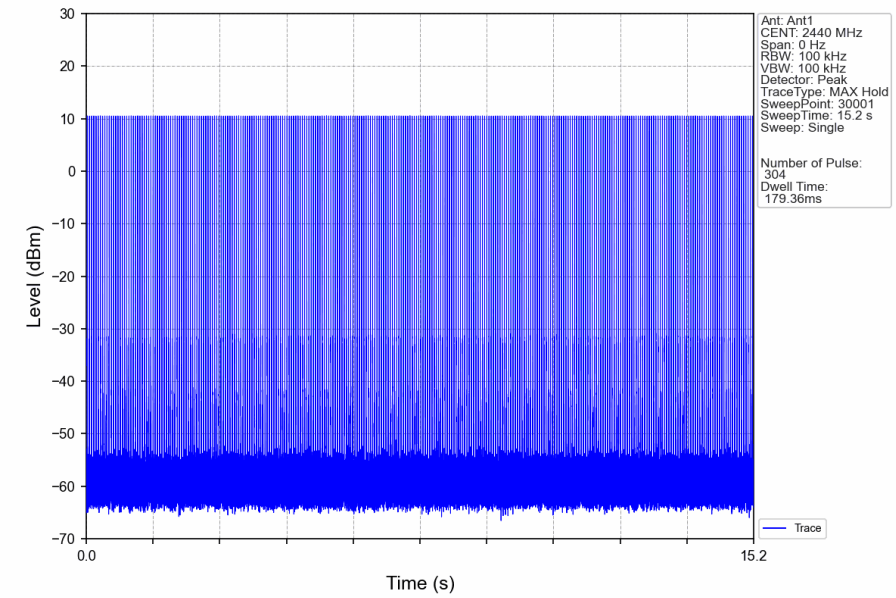

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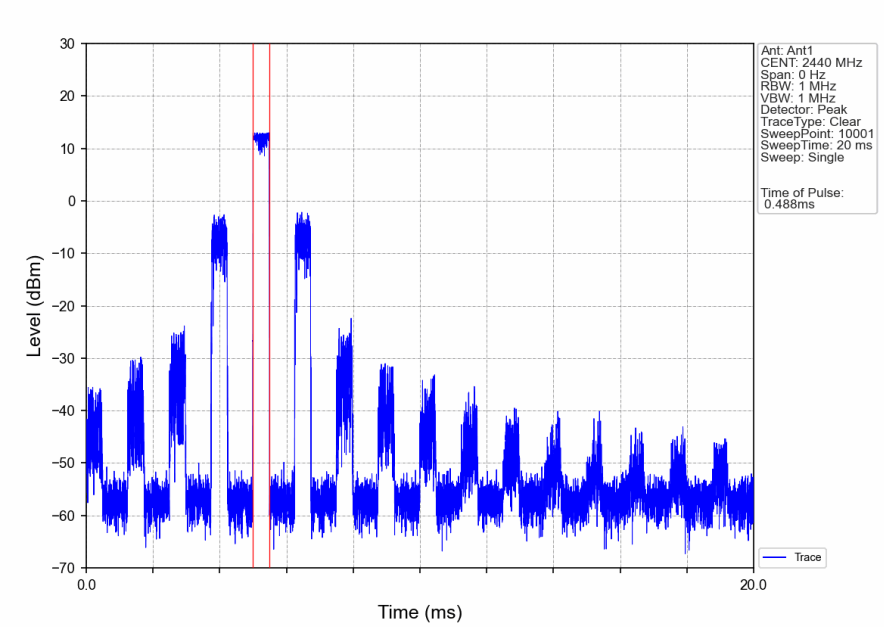
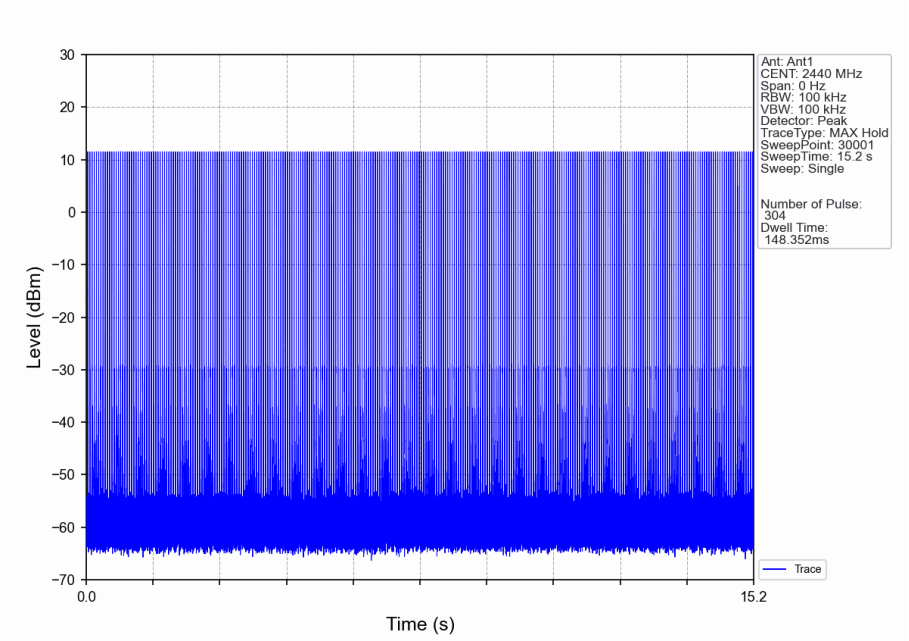


QHS 5M_HOPP_Ant1_NTNV



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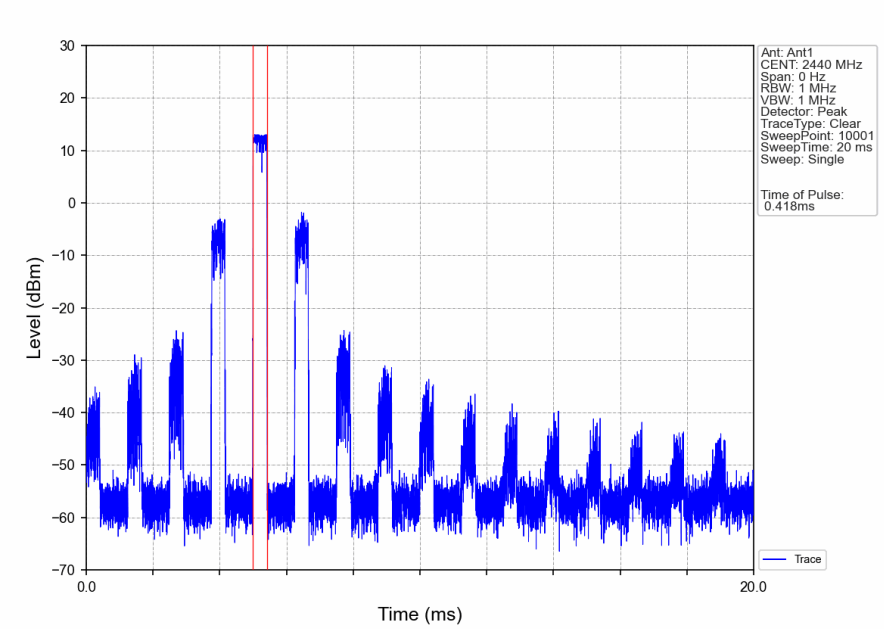
QHS 6M_HOPP_Ant1_NTNV



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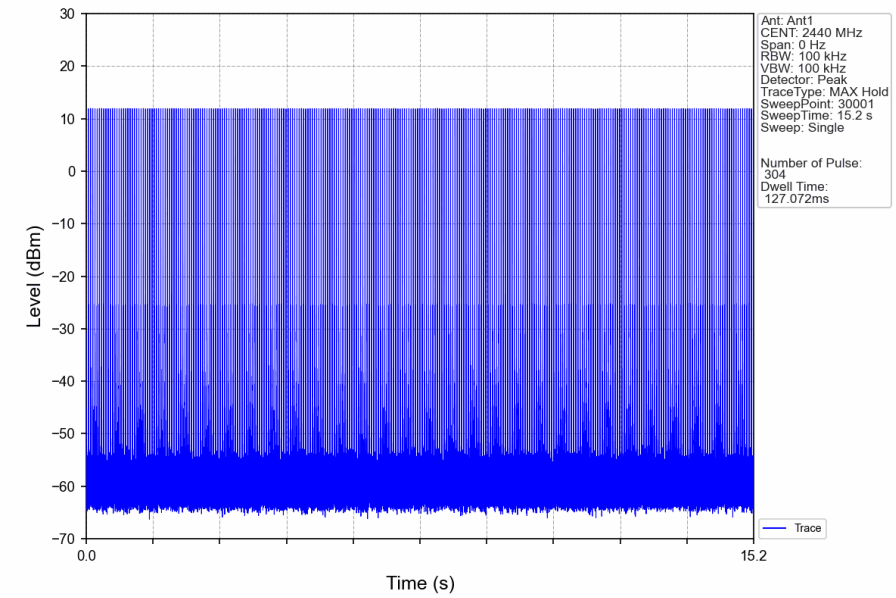

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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
QHS 2M	SISO	2404	1	11.41
		2440	1	12.57
		2478	1	11.59
QHS 4M	SISO	2404	1	11.81
		2440	1	12.56
		2478	1	11.22
QHS 5M	SISO	2404	1	12.03
		2440	1	12.59
		2478	1	11.73
QHS 6M	SISO	2404	1	11.63
		2440	1	12.68
		2478	1	11.71

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7.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
QHS 2M	SISO	2404	1	12.57	-7.43	Pass
		2440	1	12.57	-7.43	Pass
		2478	1	12.57	-7.43	Pass
		HOPP	1	12.57	-7.43	Pass
				12.57	-7.43	Pass
QHS 4M	SISO	2404	1	12.56	-7.44	Pass
		2440	1	12.56	-7.44	Pass
		2478	1	12.56	-7.44	Pass
		HOPP	1	12.56	-7.44	Pass
				12.56	-7.44	Pass
QHS 5M	SISO	2404	1	12.59	-7.41	Pass
		2440	1	12.59	-7.41	Pass
		2478	1	12.59	-7.41	Pass
		HOPP	1	12.59	-7.41	Pass
				12.59	-7.41	Pass
QHS 6M	SISO	2404	1	12.68	-7.32	Pass
		2440	1	12.68	-7.32	Pass
		2478	1	12.68	-7.32	Pass
		HOPP	1	12.68	-7.32	Pass
				12.68	-7.32	Pass

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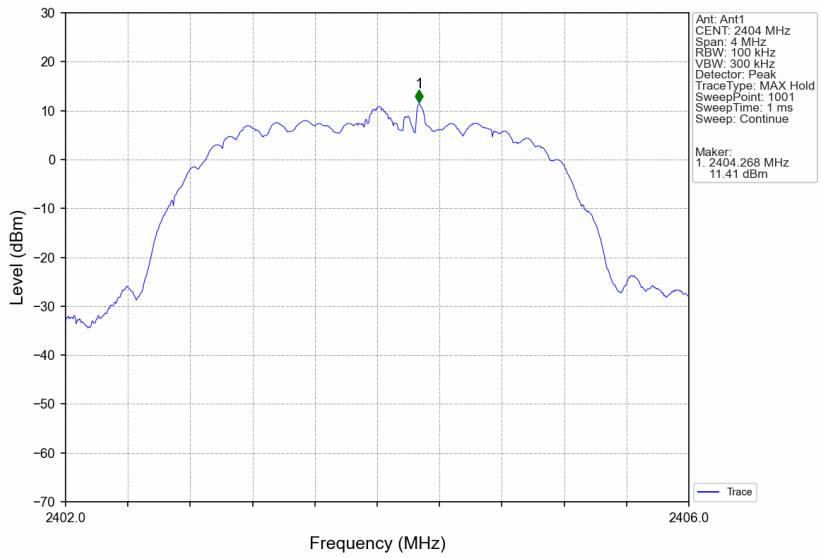
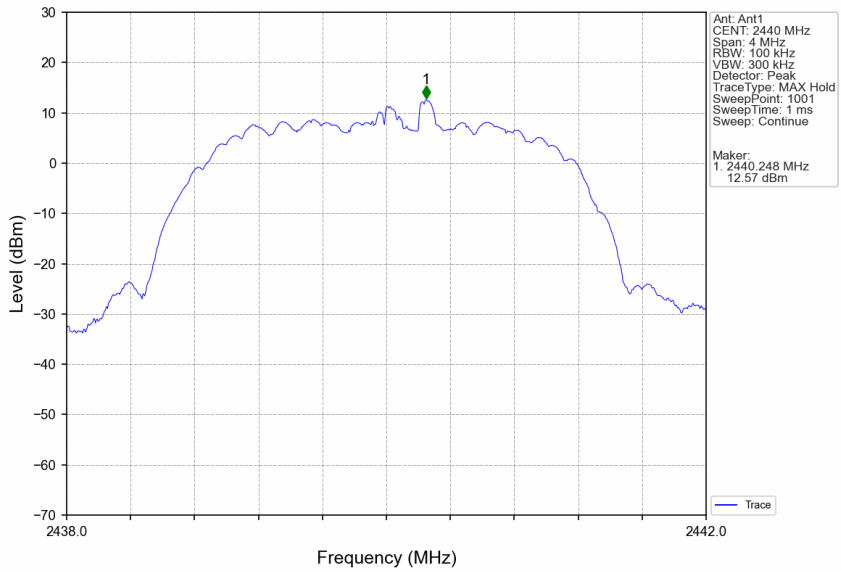
7.2 Test Graph

7.2.1 Ref

QHS 2M_LCH_2404MHz_Ant1_NTNV



QHS 2M_MCH_2440MHz_Ant1_NTNV



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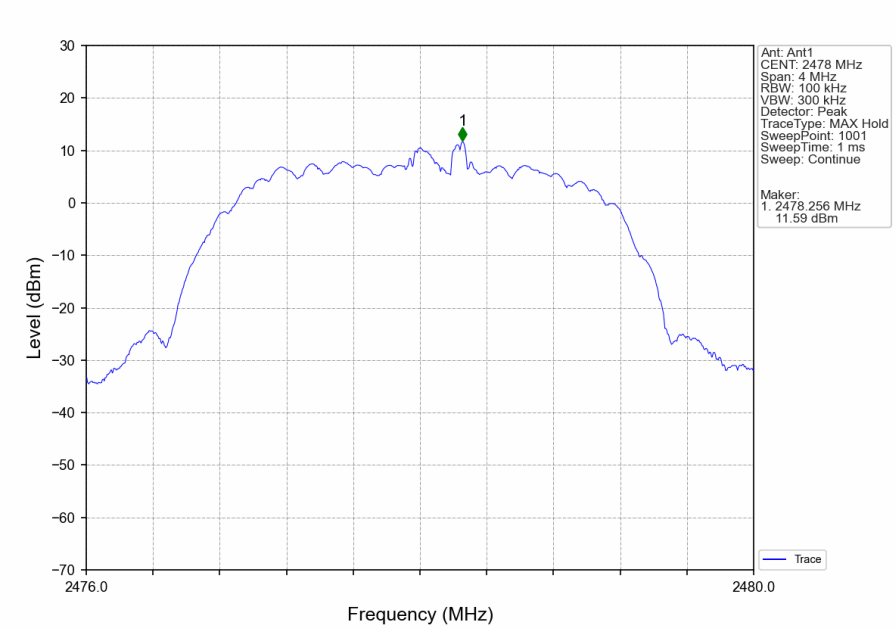
QHS 2M_HCH_2478MHz_Ant1_NTNV



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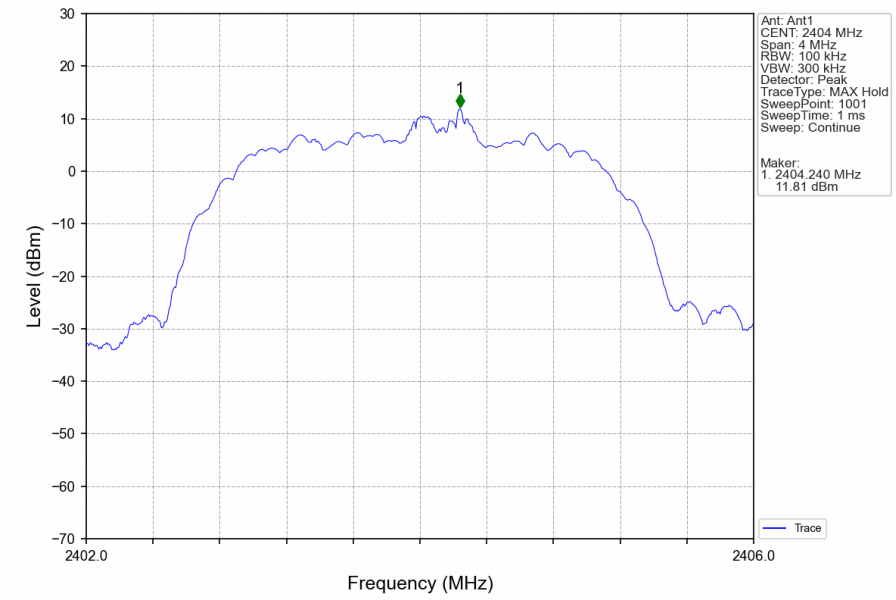

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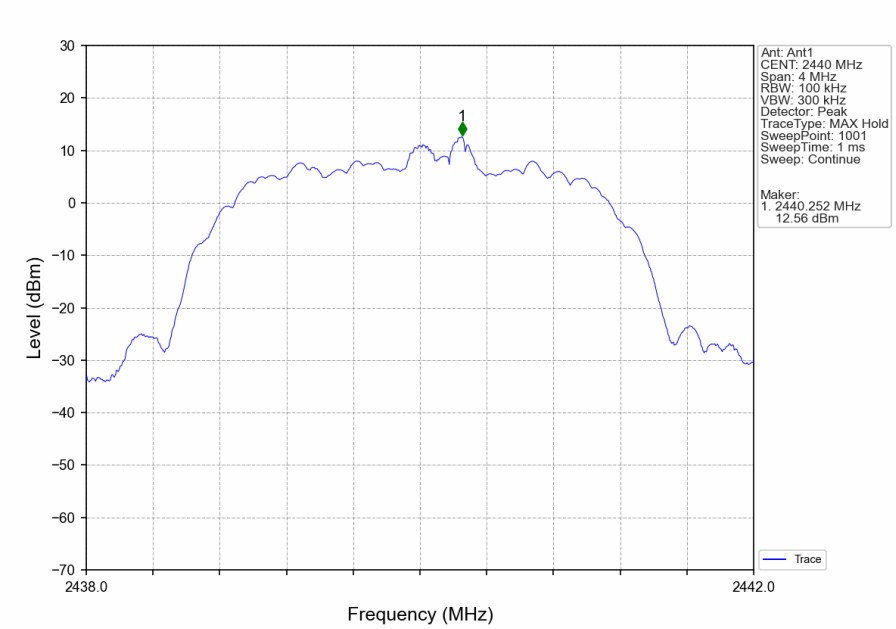
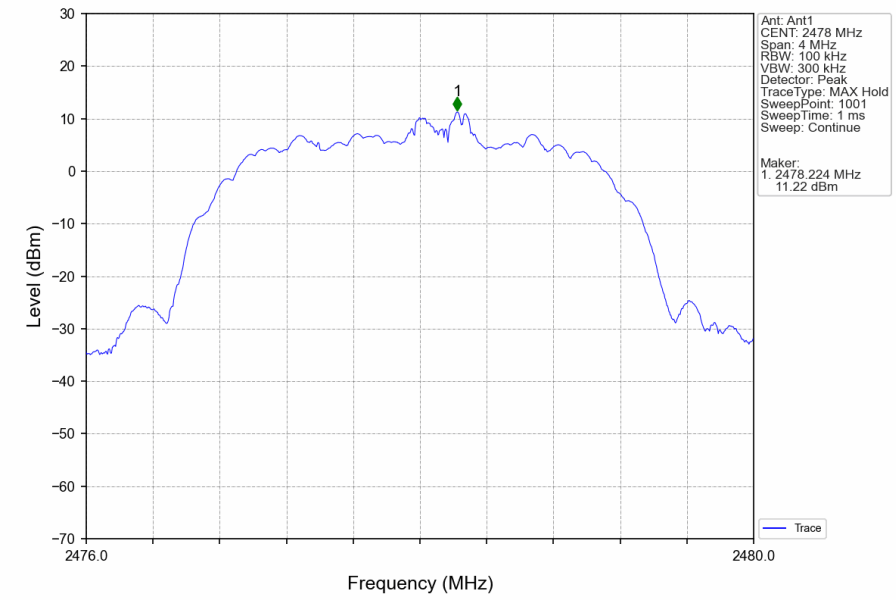
QHS 4M_MCH_2440MHz_Ant1_NTNV



QHS 4M_HCH_2478MHz_Ant1_NTNV



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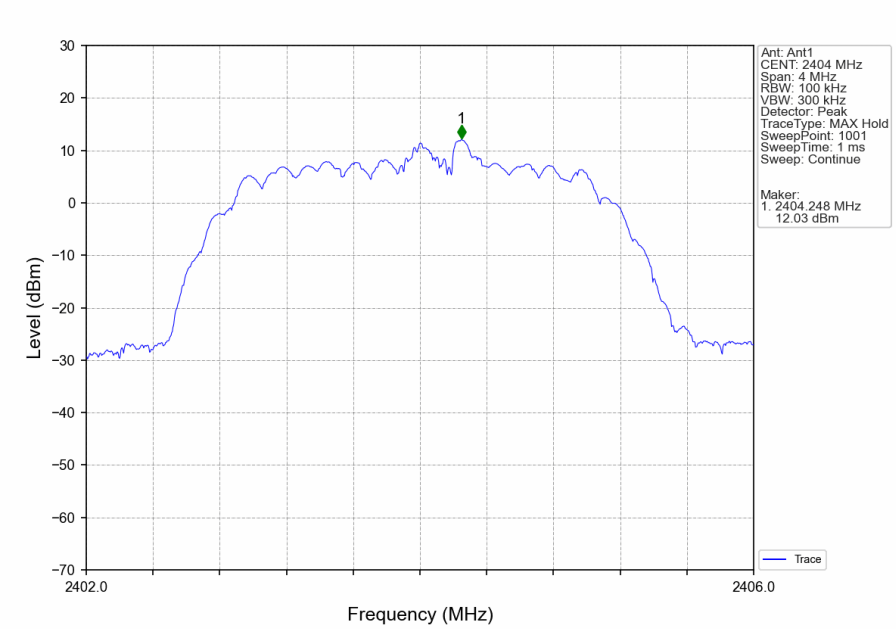
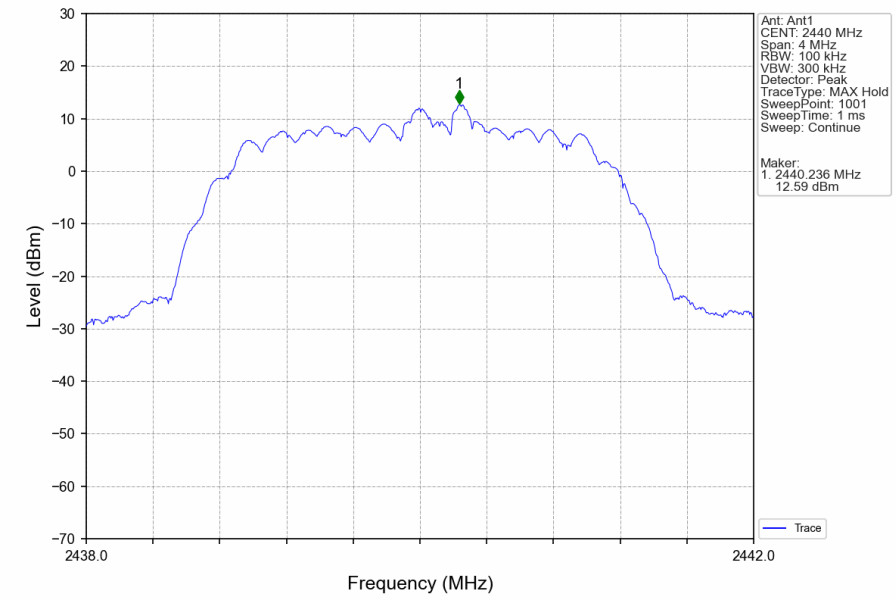


QHS 5M_MCH_2440MHz_Ant1_NTNV



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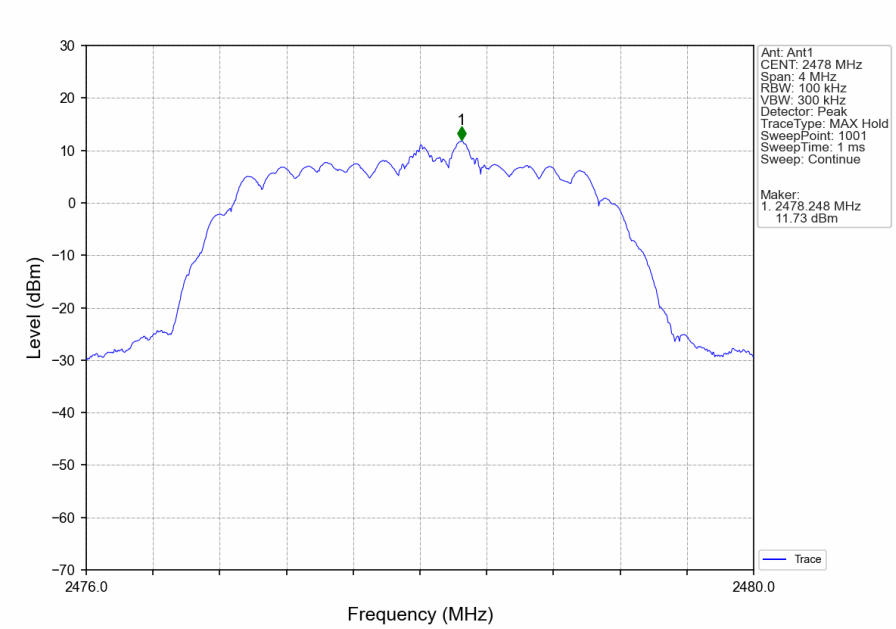
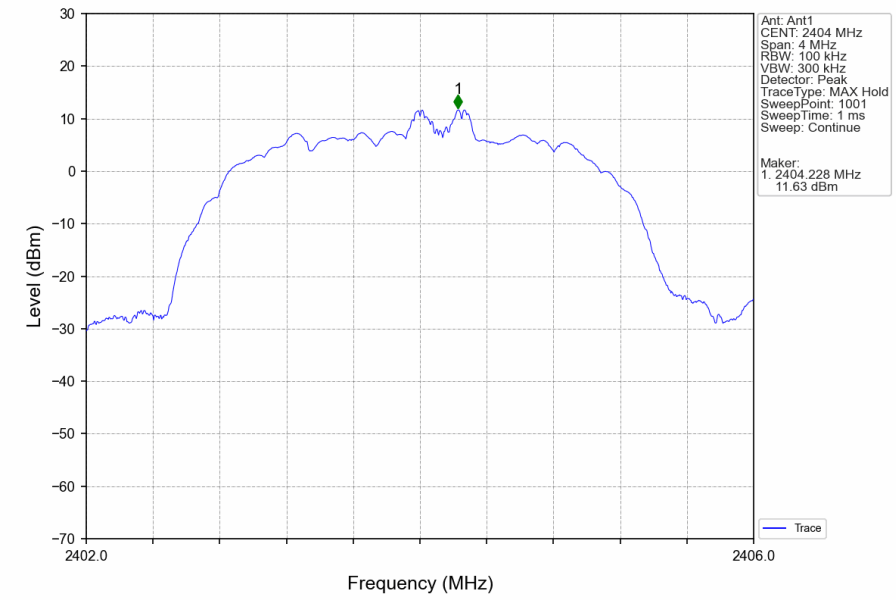


QHS 6M_LCH_2404MHz_Ant1_NTNV



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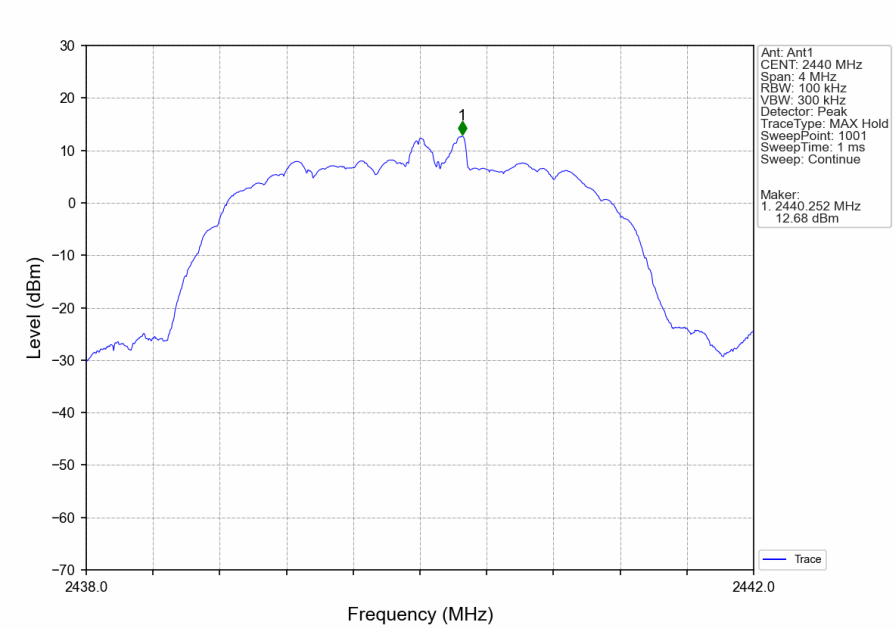
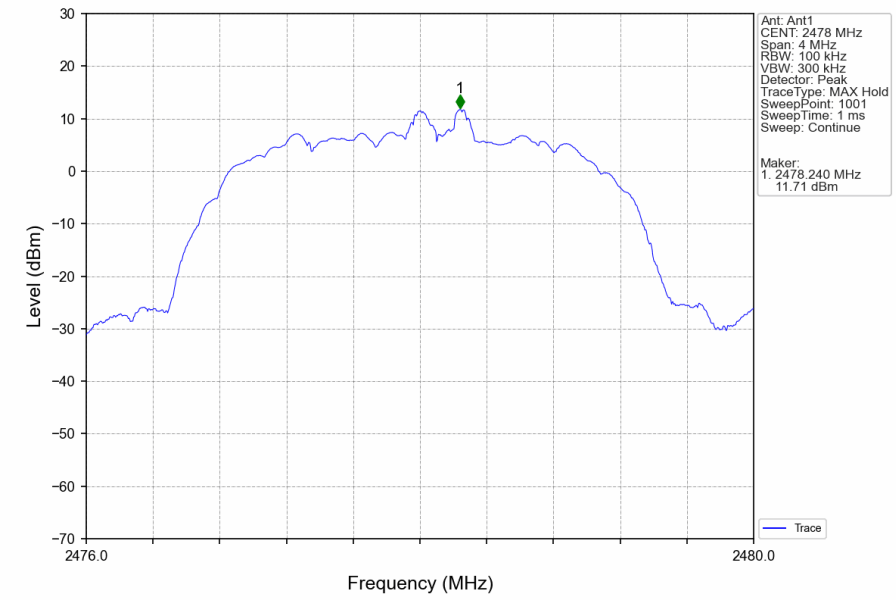
QHS 6M_MCH_2440MHz_Ant1_NTNV



QHS 6M_HCH_2478MHz_Ant1_NTNV



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7.2.2 CSE

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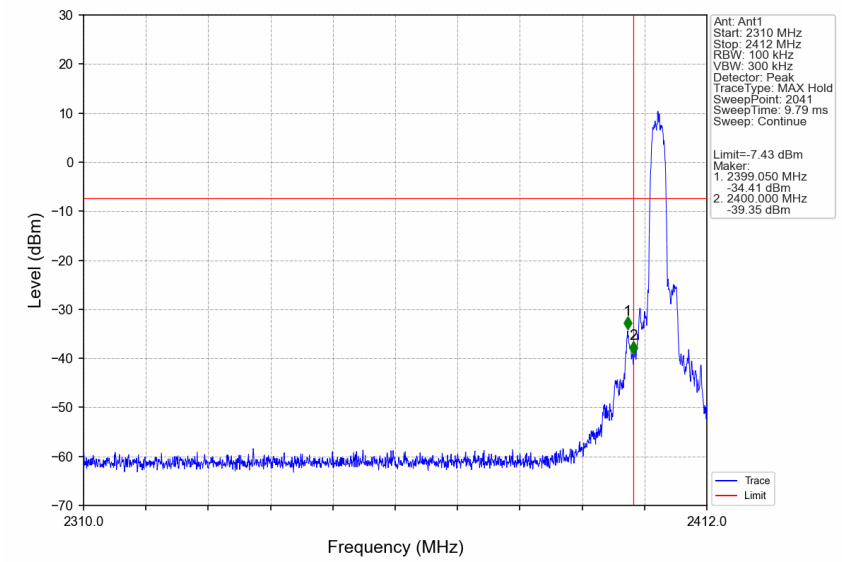

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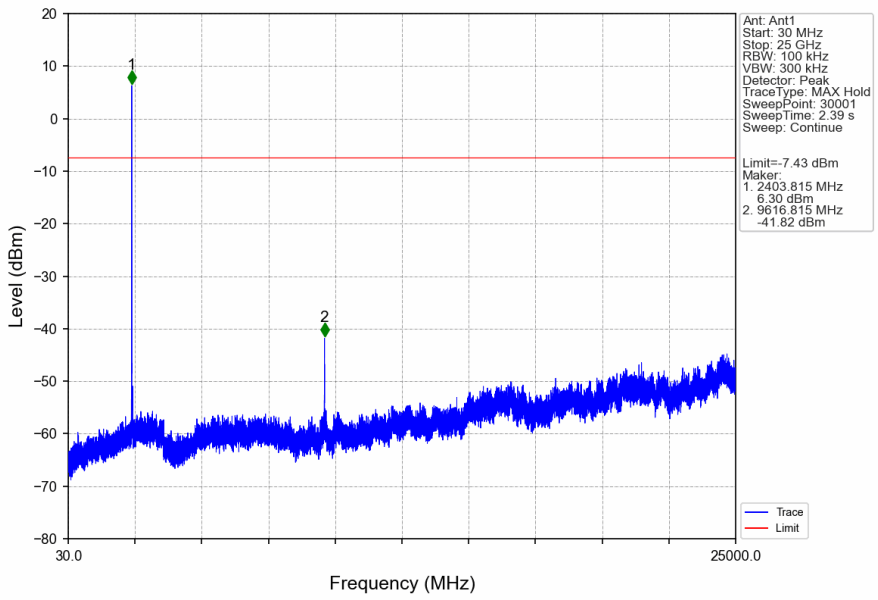

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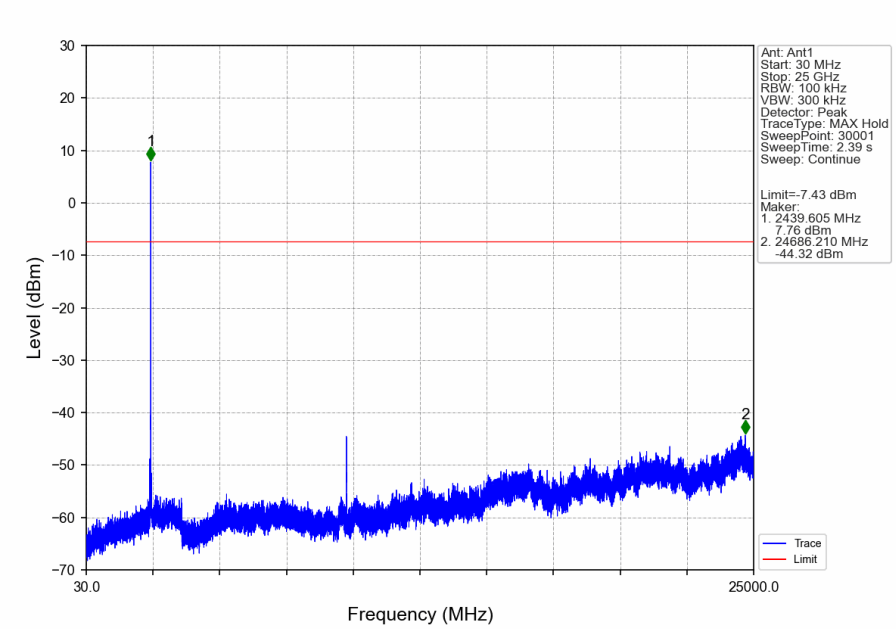
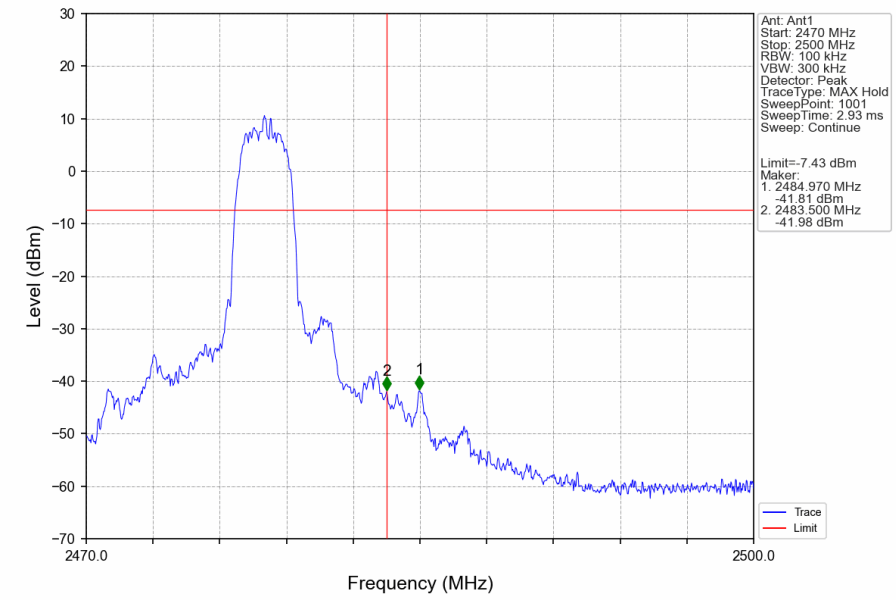
QHS 2M_MCH_2440MHz_Ant1_NTNV



QHS 2M_HCH_2478MHz_Ant1_NTNV



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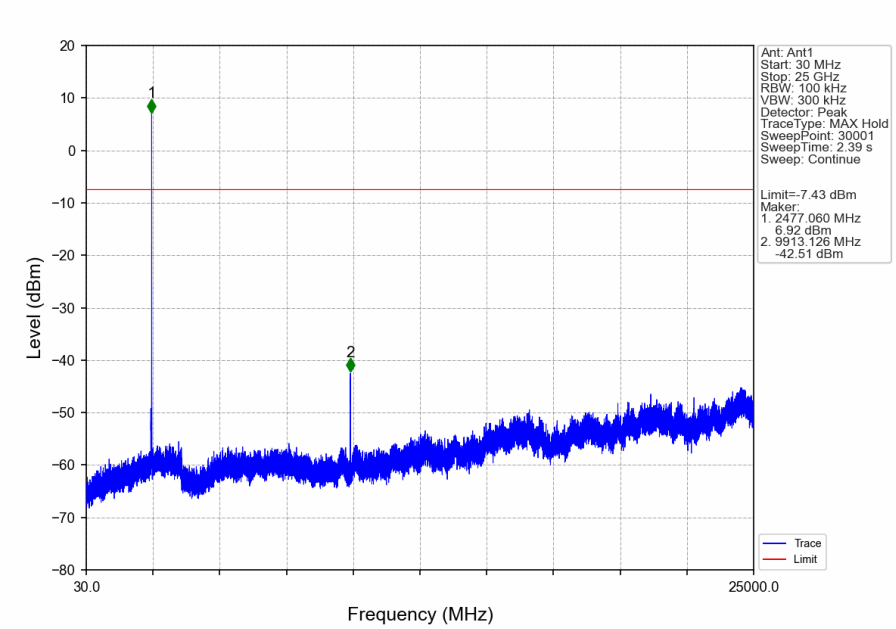
QHS 2M_HCH_2478MHz_Ant1_NTNV



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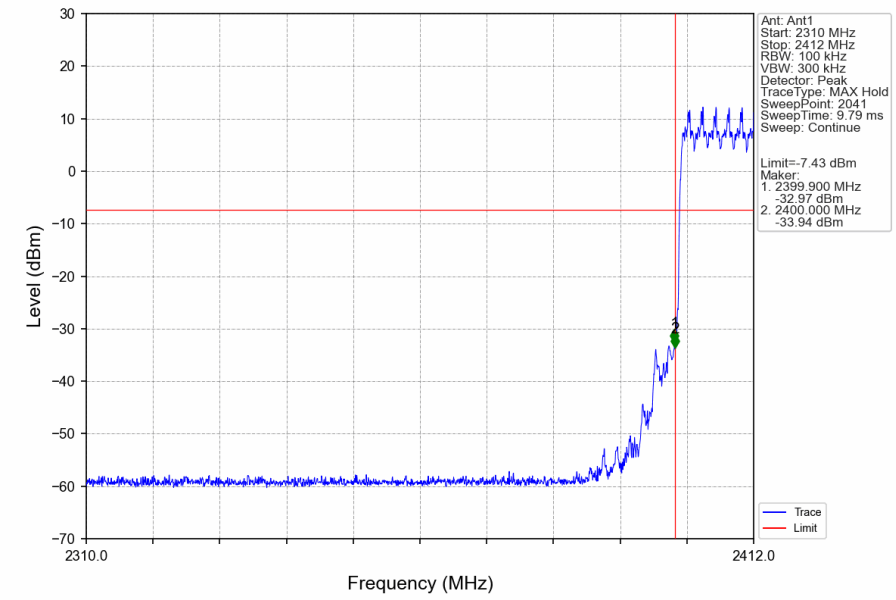

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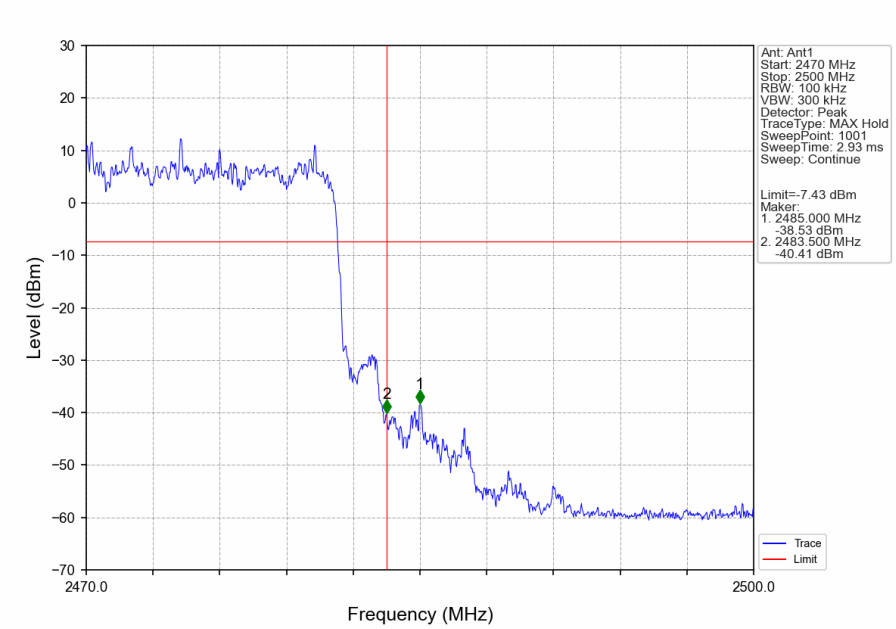
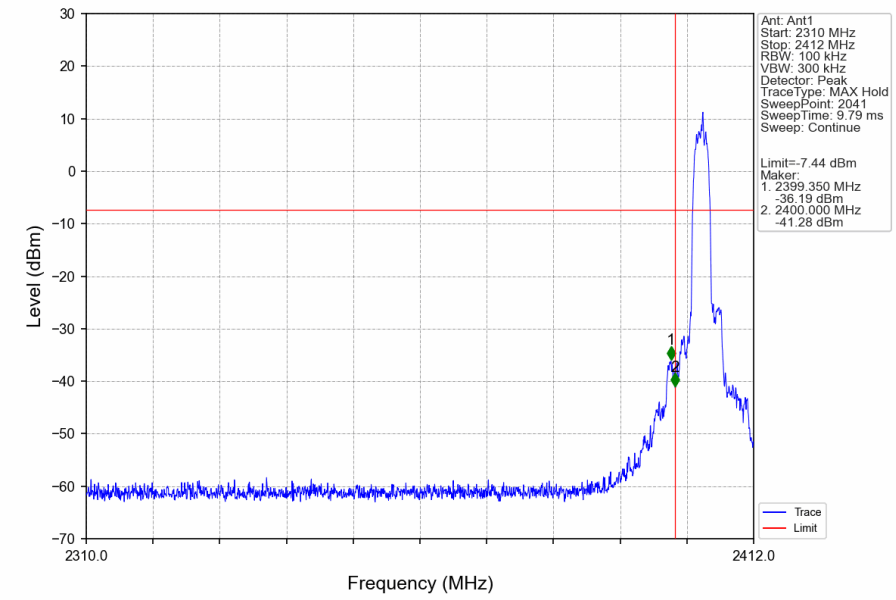
QHS 2M_HOPP_Ant1_NTNV



QHS 4M_LCH_2404MHz_Ant1_NTNV



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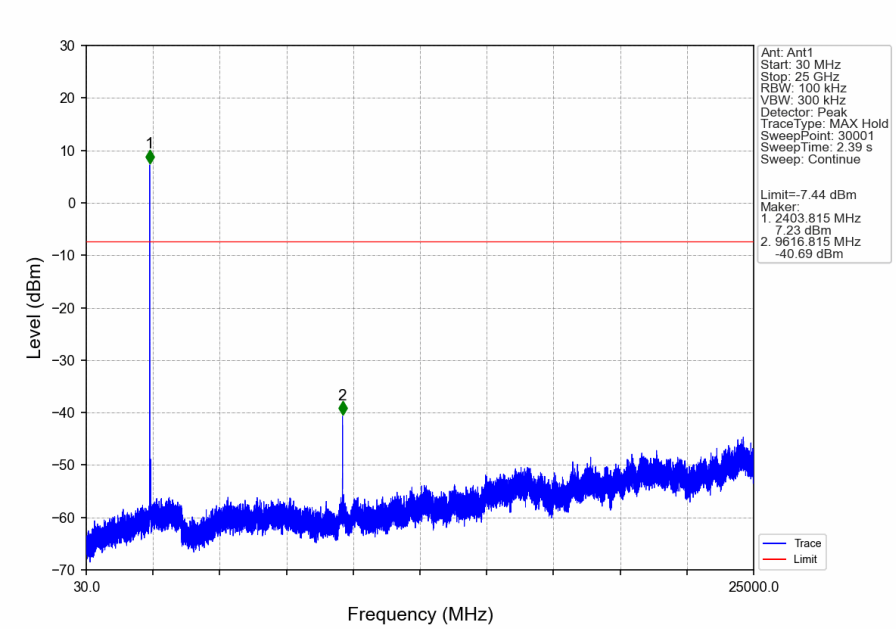
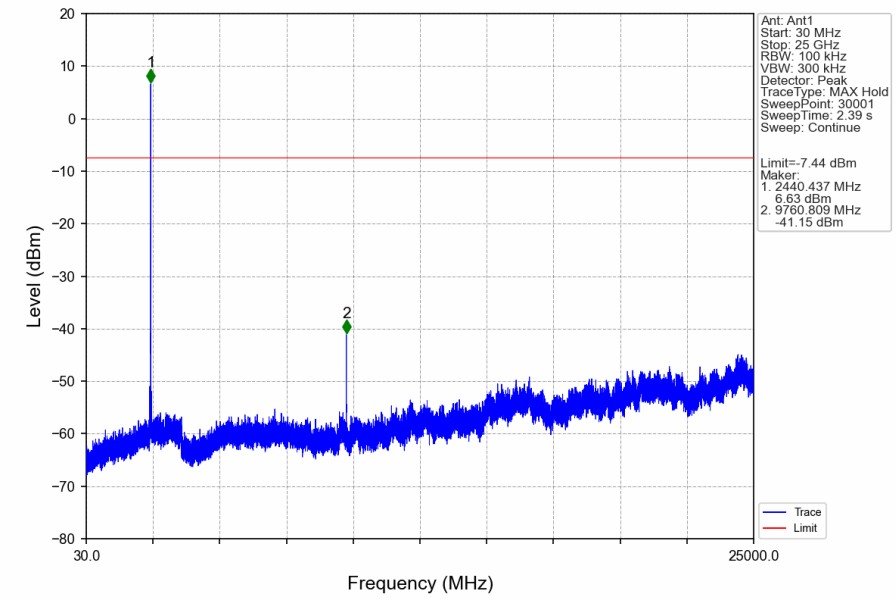
QHS 4M_LCH_2404MHz_Ant1_NTNV



QHS 4M_MCH_2440MHz_Ant1_NTNV



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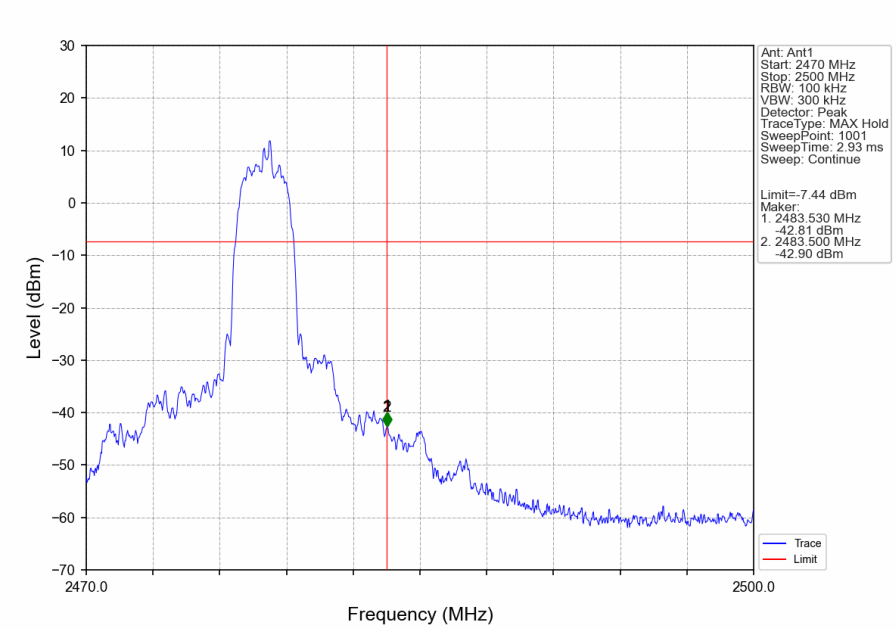

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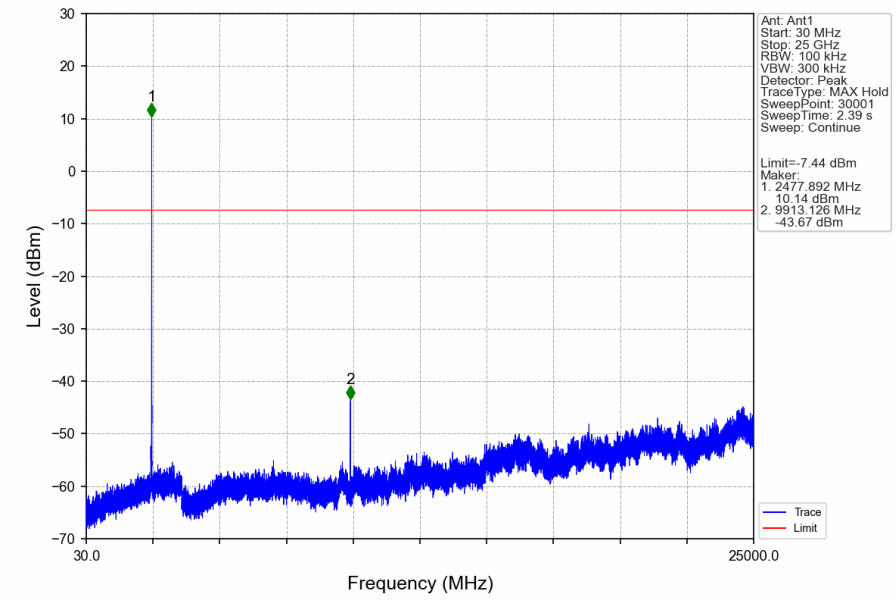

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