

FCC - TEST REPORT

Report Number : **68.950.23.1004.01** Date of Issue: **2024-1-17**

Model : **TG-S7A, TG-S7E, TG-S7H, TG-S7J, TG-S8A, TG-S8E, TG-S8H, TG-S8J, TG-S9A, TG-S9E, TG-S9H, TG-S9J**

Product Type : Multi-functional AI Translation Pen

Applicant : Zhongshan Tess Gift Co., Ltd.

Address : #B106, 760 Creative Park, 12 Minying West Road, Shiqi District,
Zhongshan, Guangdong, China

Manufacturer : Zhongshan Tess Gift Co., Ltd.

Address : #B106, 760 Creative Park, 12 Minying West Road, Shiqi District,
Zhongshan, Guangdong, China

Factory : Zhongshan Tess Gift Co., Ltd.

Address : #B106, 760 Creative Park, 12 Minying West Road, Shiqi District,
Zhongshan, Guangdong, China

Test Result : ☒ **Positive** ☐ Negative

Total pages including Appendices : **60**

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu,
Nantou, Nanshan District,
Shenzhen, Guangdong, China

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

FCC Registration No.: 514049

FCC Designation Number: CN5009

3 Description of the Equipment Under Test

Product:	Multi-functional AI Translation Pen
Model no.:	TG-S7A, TG-S7E, TG-S7H, TG-S7J, TG-S8A, TG-S8E, TG-S8H, TG-S8J, TG-S9A, TG-S9E, TG-S9H, TG-S9J
Hardware Version Identification No. (HVIN)	TG-S7A, TG-S7E, TG-S7H, TG-S7J, TG-S8A, TG-S8E, TG-S8H, TG-S8J, TG-S9A, TG-S9E, TG-S9H, TG-S9J
Product Marketing Name (PMN)	Multi-functional AI Translation Pen
Brand name:	TESS GIFT
FCC ID:	2BHDR-13EA2BHDR
Options and accessories:	N/A
Rating:	5VDC, 1A by external Type-C input or by 4.2VDC, 1200mAh battery
RF Transmission Frequency:	2412MHz-2462MHz for 802.11b/g/n20/n40 (Wi-Fi) 2422MHz-2452MHz for 802.11n40 (Wi-Fi)
No. of Operated Channel:	11 for 802.11b/g/n20 (Wi-Fi) 7 for 802.11n40 (Wi-Fi)
Modulation:	DSSS, OFDM
Antenna Type:	FPC
Antenna Gain:	1.65dBi
Description of the EUT:	The EUT is a Multi-functional AI Translation Pen which supports BT, BLE and 2.4G Wi-Fi functions. All models use the same Bluetooth & Wi-Fi RF module and antenna, the difference among the models is the software version, the model: TG-S7A was chosen as the representative model to perform full tests, and the other models were deemed to fulfil relevant requirements without further testing. Only 2.4GHz Wi-Fi included in this report.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart C 10-1-2023 Edition			
Test Condition		Test Result	Test Site
§15.207	Conducted emission AC power port	Pass	Site 1
§15.247 (b) (3)	Conducted output power	Pass	Site 1
§15.247(e)	Power spectral density	Pass	Site 1
§15.247(a)(2)	6dB bandwidth	Pass	Site 1
§15.247(a)(1)	20dB Occupied bandwidth	N/A	--
§15.247(a)(1)	Carrier frequency separation	N/A	--
§15.247(a)(1)(iii)	Number of hopping frequencies	N/A	--
§15.247(a)(1)(iii)	Dwell Time	N/A	--
§15.247(d)	Spurious RF conducted emissions	Pass	Site 1
§15.247(d)	Band edge	Pass	Site 1
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Pass	Site 1
§15.203	Antenna requirement	Pass See note 2	--

Note 1: N/A=Not Applicable.

Note 2: The EUT use a FPC antenna, which gain is 1.65dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BHDR-13EA2BHDR, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

The EUT supports Bluetooth Low Energy/Bluetooth BR+EDR/Wi-Fi functions and the TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHz Wi-Fi.

Note: The report is for 2.4GHz Wi-Fi only.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

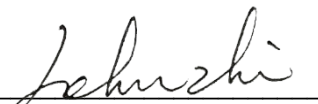
Sample Received Date: 2023-11-22

Testing Start Date: 2023-11-23

Testing End Date: 2024-1-8

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by:

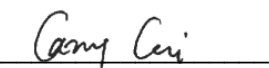

John Zhi
Project Manager

Prepared by:


Lynn Huang
Project Engineer



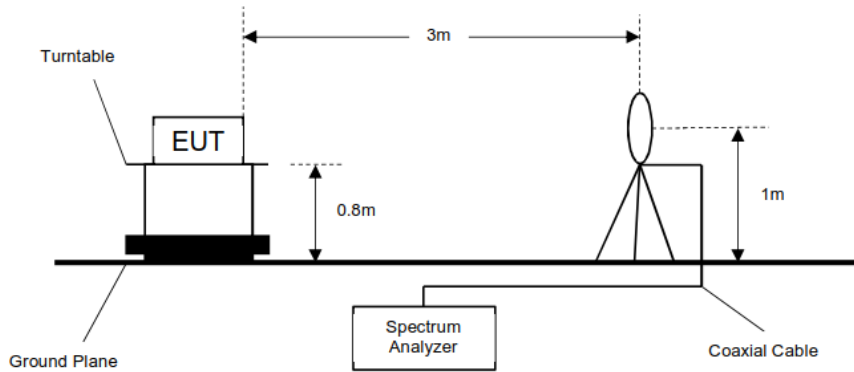
Tested by:


Carry Cai
Test Engineer

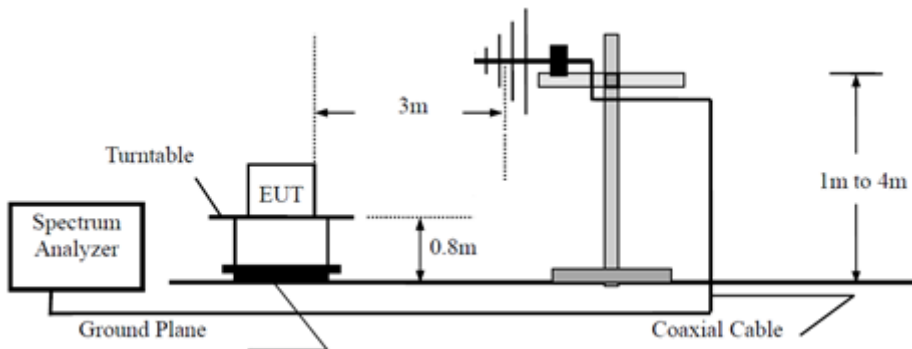
7 Test Setups

7.1 Radiated test setups

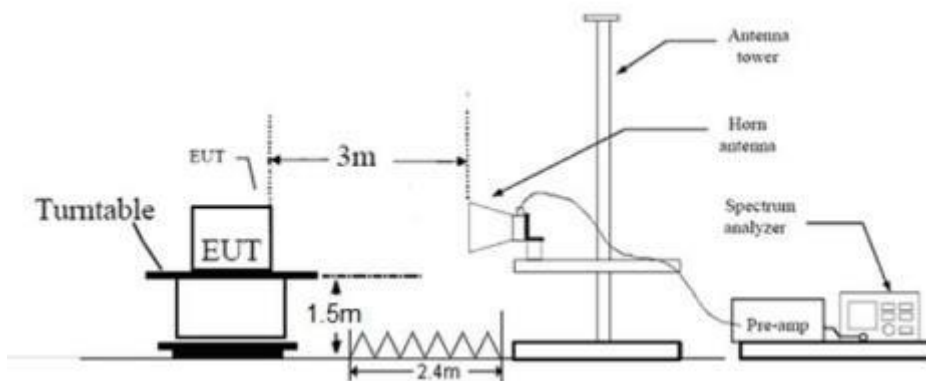
9KHz - 30MHz



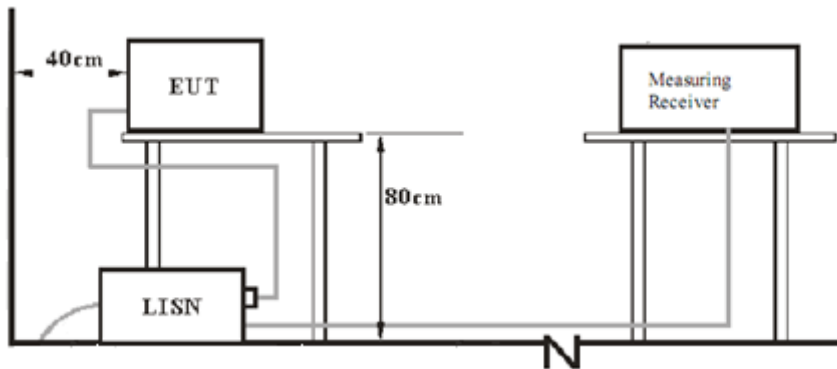
30MHz - 1GHz



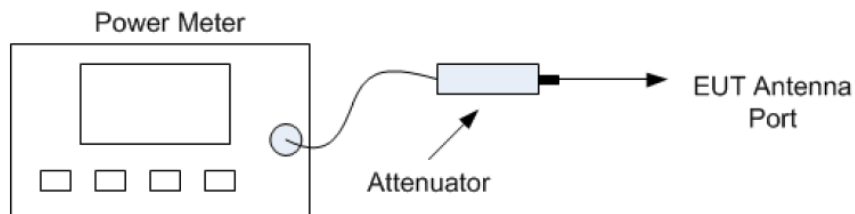
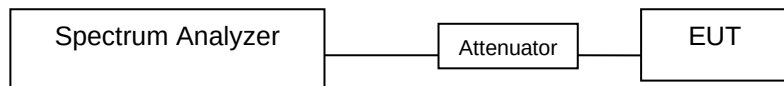
Above 1GHz



7.2 AC Power Line Conducted Emission test setups



7.3 Conducted RF test setups



Power meter conducted test setup

8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
---	---	---	---

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
---	---	---	---

Test software information:

Mode	Setting TX Attenuation Level	Packet Type
802.11b	17	DSSS
802.11g	17	OFDM
802.11n20	16	OFDM
802.11n40	16	OFDM

The system was configured to non-hopping mode.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

Through pre-scan all kind of modulation and all kind of rates, find the 1Mbps of rate is the worst case of 802.11b; the 6Mbps of rate is the worst case of 802.11g; the 6.5Mbps of rate is the worst case of 802.11n20 & 802.11n40, only the worst case transmitter rate data mode is recorded in the report.

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

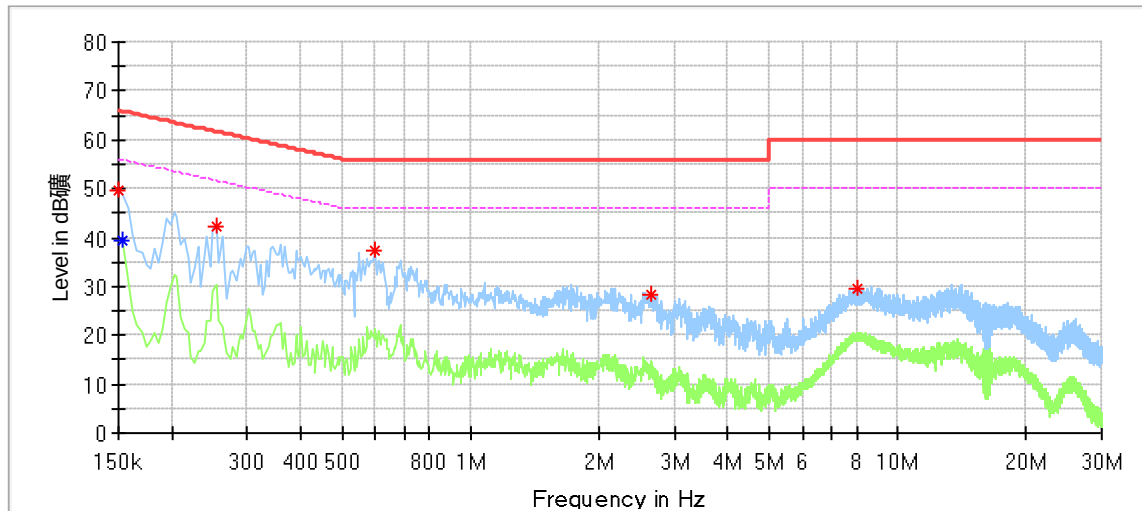
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dBμV	AV Limit dBμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Multi-functional AI Translation Pen
 M/N : TG-S7A
 Operating Condition : Transmit mode
 Test Specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.69	---	66.00	16.31	L1	9.52
0.154000	---	39.20	55.78	16.58	L1	9.52
0.254000	42.38	---	61.63	19.25	L1	9.56
0.598000	37.20	---	56.00	18.80	L1	9.60
2.634000	28.29	---	56.00	27.71	L1	9.64
8.018000	29.56	---	60.00	30.44	L1	9.88

Remark:

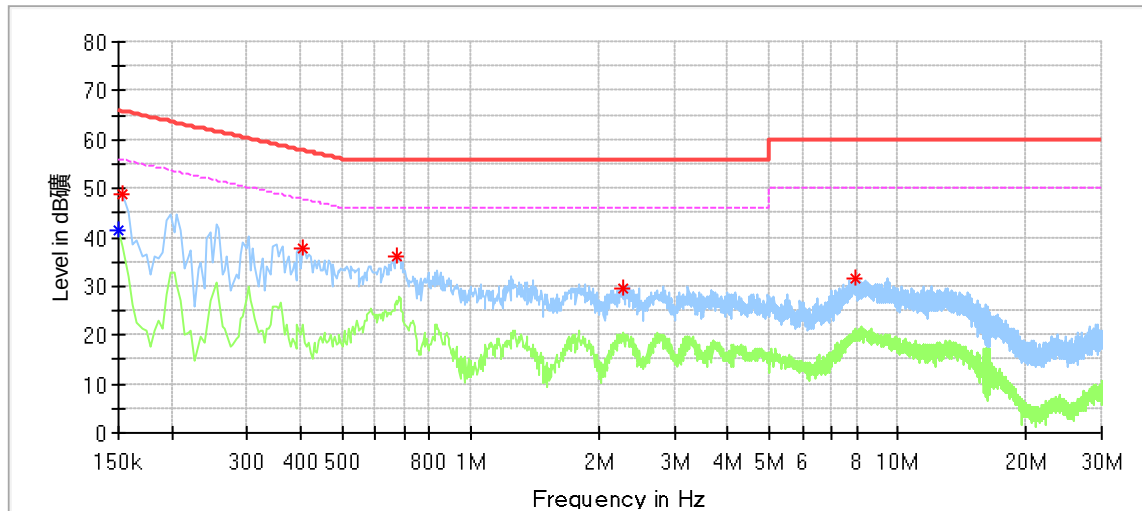
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Multi-functional AI Translation Pen
 M/N : TG-S7A
 Operating Condition : Transmit mode
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	41.49	56.00	14.51	N	9.55
0.154000	48.66	---	65.78	17.13	N	9.55
0.406000	37.82	---	57.73	19.91	N	9.61
0.674000	36.13	---	56.00	19.87	N	9.63
2.266000	29.43	---	56.00	26.57	N	9.66
7.942000	31.70	---	60.00	28.30	N	9.90

Remark:

Level=Reading Level + Correction Factor

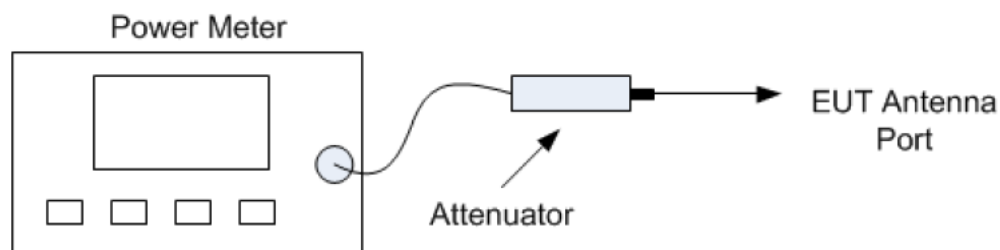
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Conducted Output Power

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Power meter conducted test setup

Limits

According to §15.247 (b) (3), conducted output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Test results

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.60	≤30	Pass
		2437	16.20	≤30	Pass
		2462	15.80	≤30	Pass
802.11g	SISO	2412	13.70	≤30	Pass
		2437	15.50	≤30	Pass
		2462	15.30	≤30	Pass
802.11n (HT20)	SISO	2412	13.60	≤30	Pass
		2437	15.00	≤30	Pass
		2462	14.80	≤30	Pass
802.11n (HT40)	SISO	2422	14.90	≤30	Pass
		2437	15.00	≤30	Pass
		2452	14.60	≤30	Pass

9.3 6dB Bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW=100KHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Test Method for 99 % Bandwidth

1. Connect EUT test port to spectrum analyzer.
Use the following spectrum analyzer settings:
RBW=1% to 5% of the actual occupied, VBW≥3RBW, Sweep = auto,
Detector function = peak, Trace = max hold
2. Use the occupied bandwidth measurement capability of test receiver.
3. Allow the trace to stabilize, record the occupied bandwidth value.

Limit

According to §15.247(a)(2), 6dB Bandwidth limit as below:

Limit [kHz]

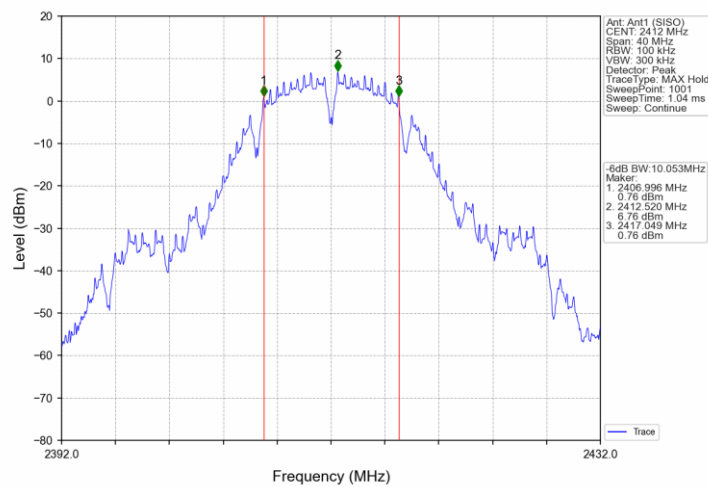
≥500

Test results

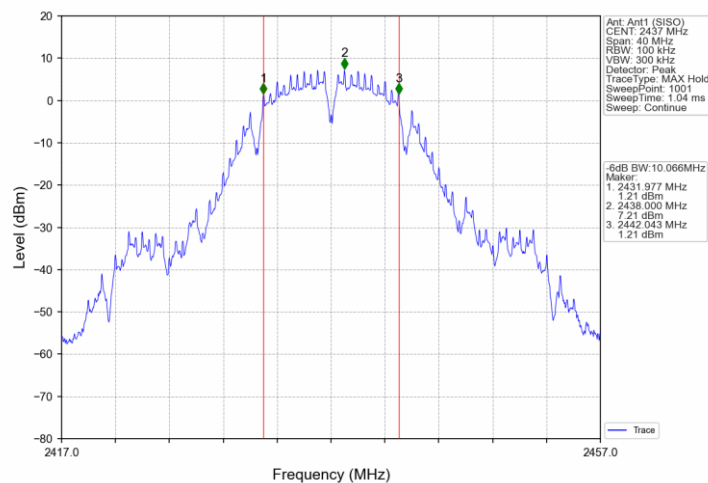
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.053	≥0.5	Pass
		2437	1	10.066	≥0.5	Pass
		2462	1	9.591	≥0.5	Pass
802.11g	SISO	2412	1	15.176	≥0.5	Pass
		2437	1	16.038	≥0.5	Pass
		2462	1	15.189	≥0.5	Pass
802.11n (HT20)	SISO	2412	1	15.990	≥0.5	Pass
		2437	1	15.170	≥0.5	Pass
		2462	1	15.196	≥0.5	Pass
802.11n (HT40)	SISO	2422	1	35.198	≥0.5	Pass
		2437	1	35.217	≥0.5	Pass
		2452	1	35.199	≥0.5	Pass

6 dB Bandwidth Test Graphs

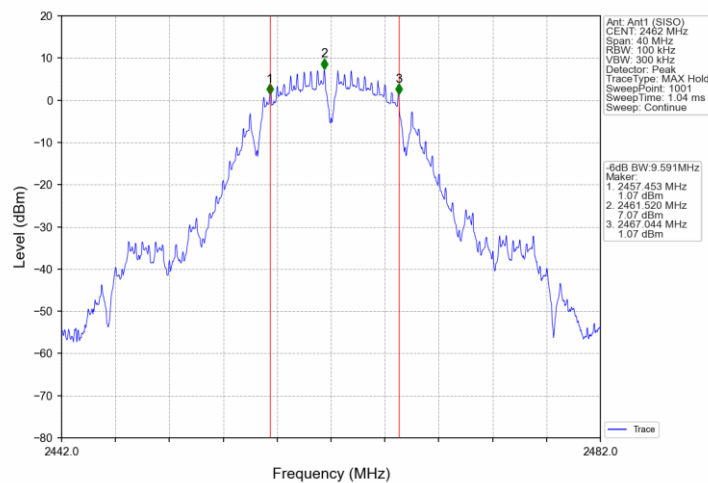
802.11b LCH 2412MHz ANT 1 (SISO) NTNV



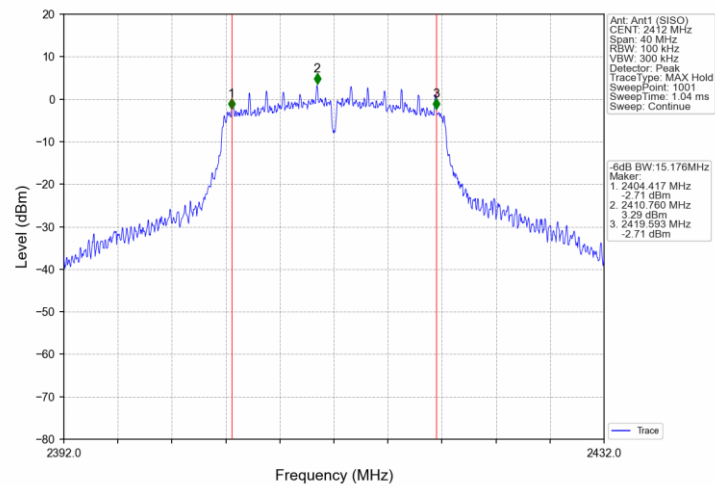
802.11b MCH 2437MHz ANT 1 (SISO) NTNV



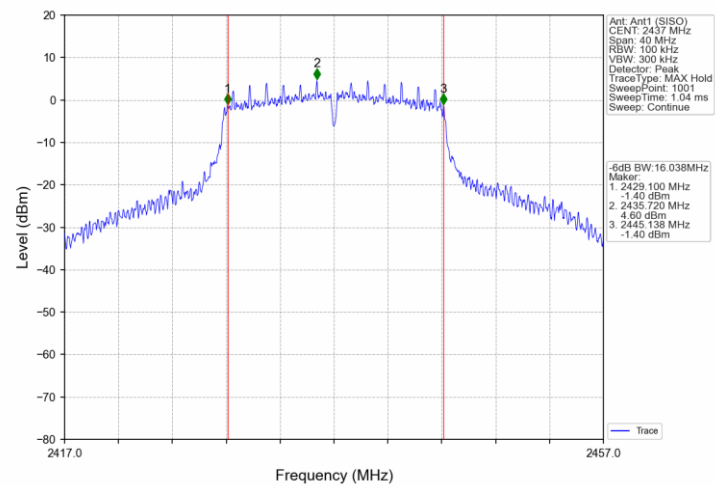
802.11b HCH 2462MHz ANT 1 (SISO) NTNV



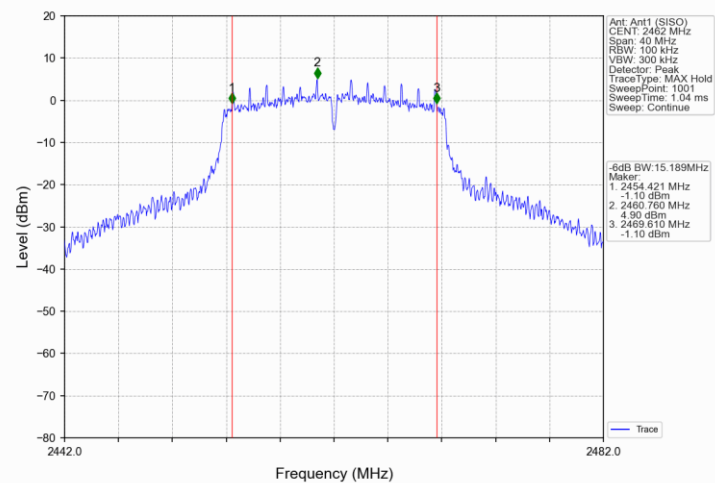
802.11g LCH 2412MHz ANT 1 (SISO) NTNV



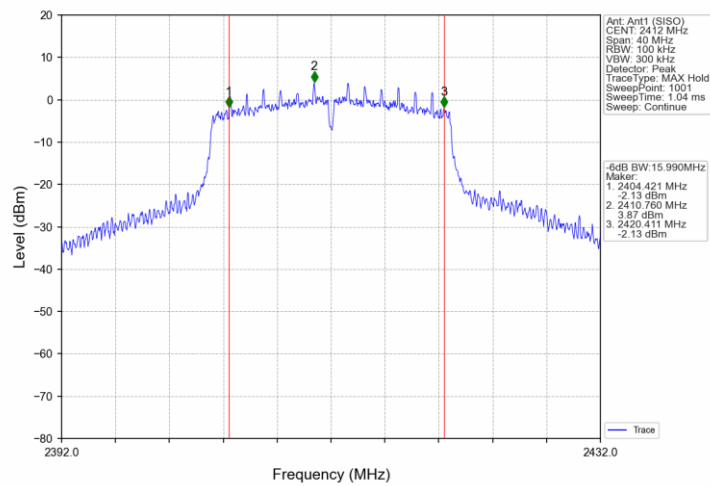
802.11g MCH 2437MHz ANT 1 (SISO) NTNV



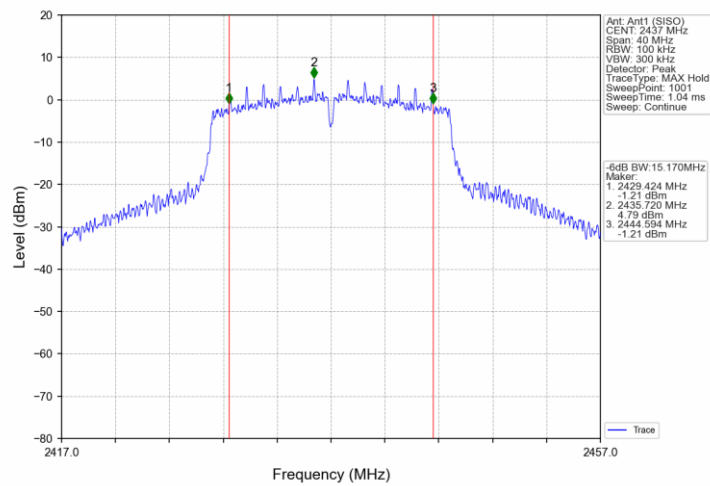
802.11g HCH 2462MHz ANT 1 (SISO) NTNV



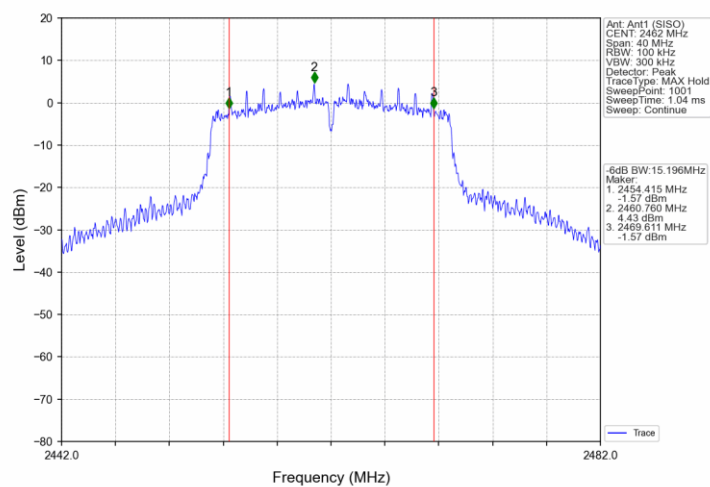
802.11n(HT20)_LCH_2412MHz_ANT_1 (SISO)_NTNV



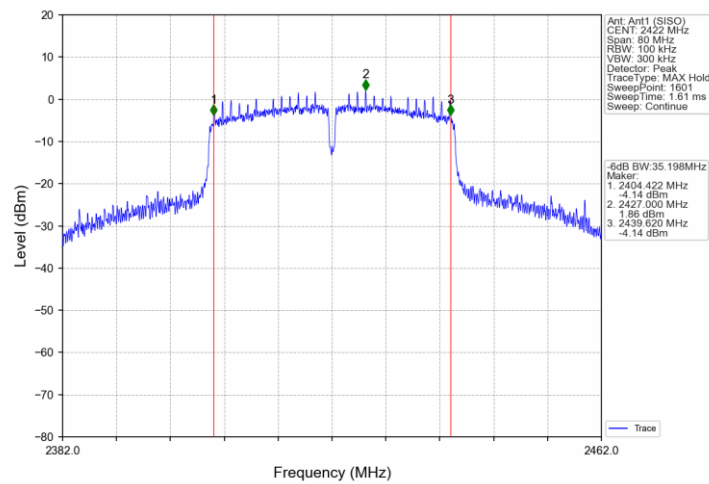
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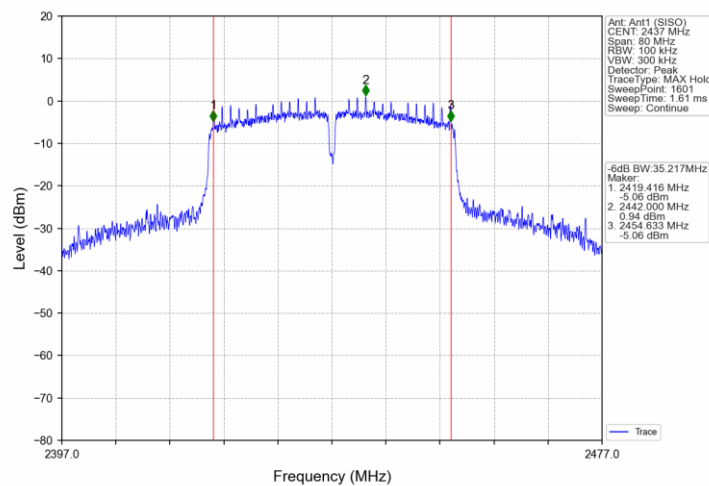
802.11n(HT20)_HCH_2462MHz_ANT_1 (SISO)_NTNV



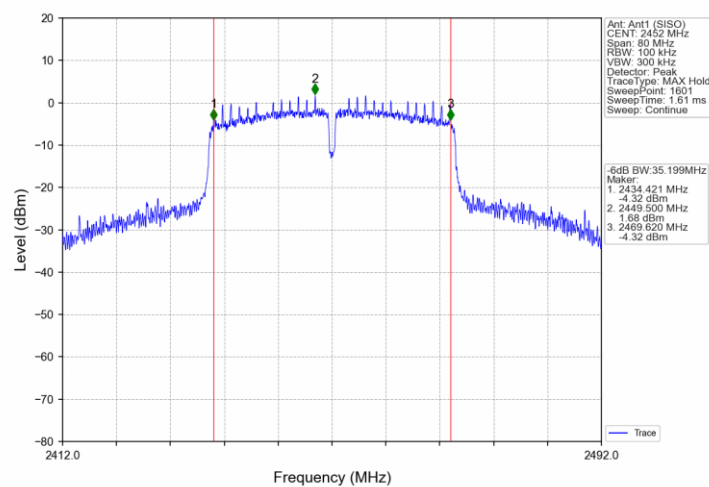
802.11n(HT40)_LCH_2422MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_ANT_1 (SISO)_NTNV



9.4 Power Spectral Density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

According to §15.247(e), Power Spectral Density limit as below:

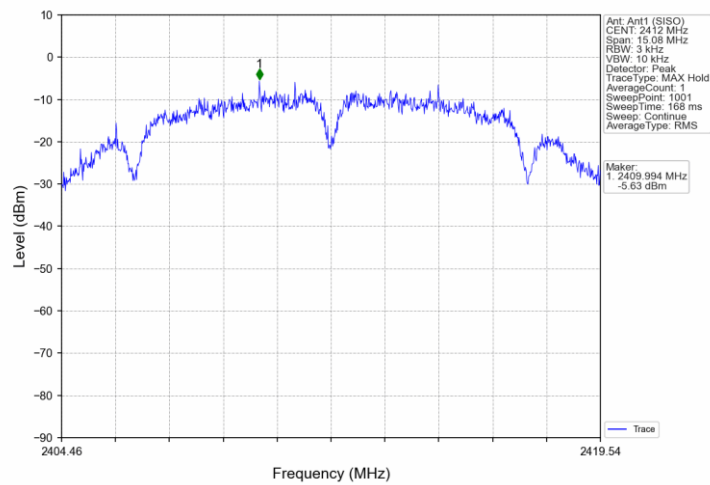
$$\text{Limit [dBm/3kHz]} \leq 8$$

Test results

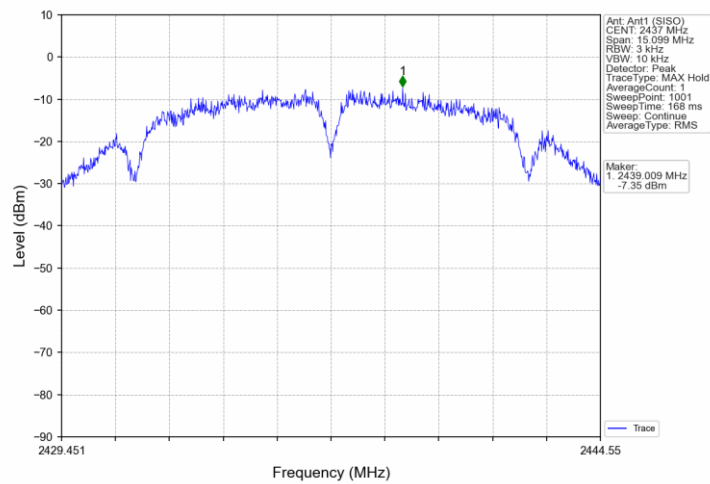
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-5.63	≤ 8	Pass
		2437	-7.35	≤ 8	Pass
		2462	-7.47	≤ 8	Pass
802.11g	SISO	2412	-11.08	≤ 8	Pass
		2437	-9.95	≤ 8	Pass
		2462	-10.16	≤ 8	Pass
802.11n (HT20)	SISO	2412	-10.54	≤ 8	Pass
		2437	-9.52	≤ 8	Pass
		2462	-10.45	≤ 8	Pass
802.11n (HT40)	SISO	2422	-13.39	≤ 8	Pass
		2437	-14.31	≤ 8	Pass
		2452	-12.75	≤ 8	Pass

Test Graphs

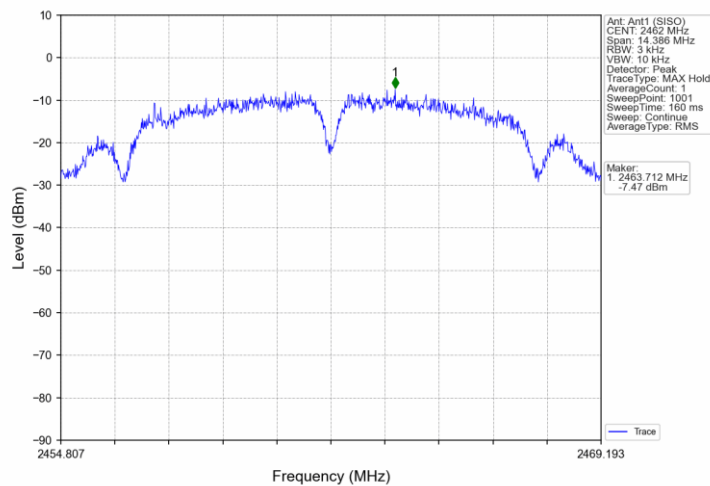
802.11b LCH 2412MHz ANT 1 (SISO) NTVN



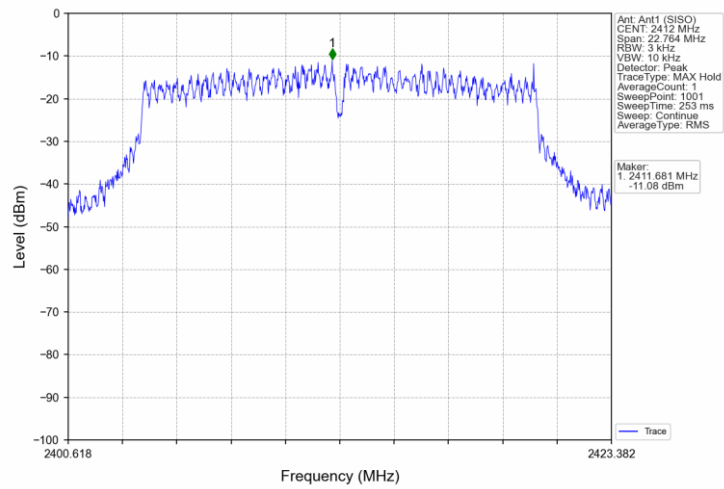
802.11b MCH 2437MHz ANT 1 (SISO) NTVN



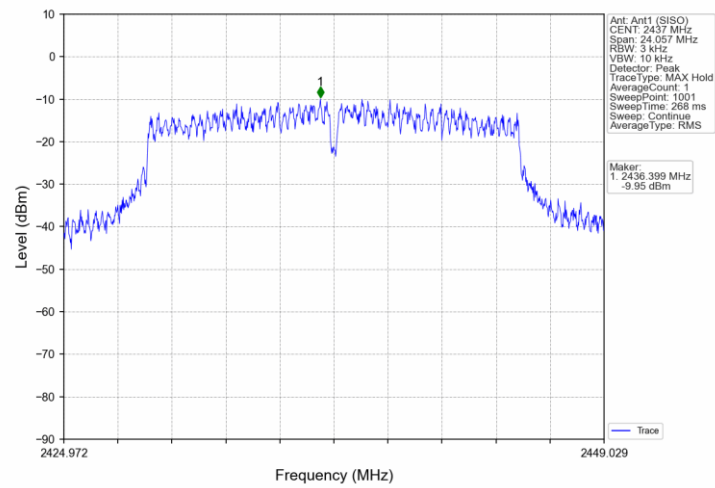
802.11b HCH 2462MHz ANT 1 (SISO) NTVN



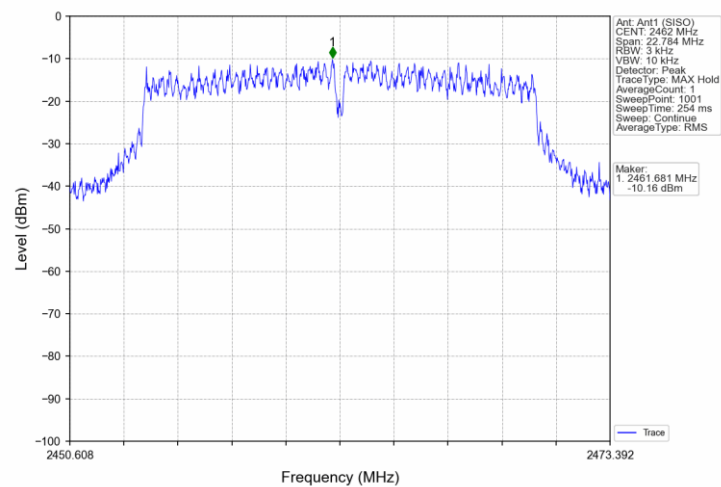
802.11g LCH 2412MHz ANT 1 (SISO) NTNV



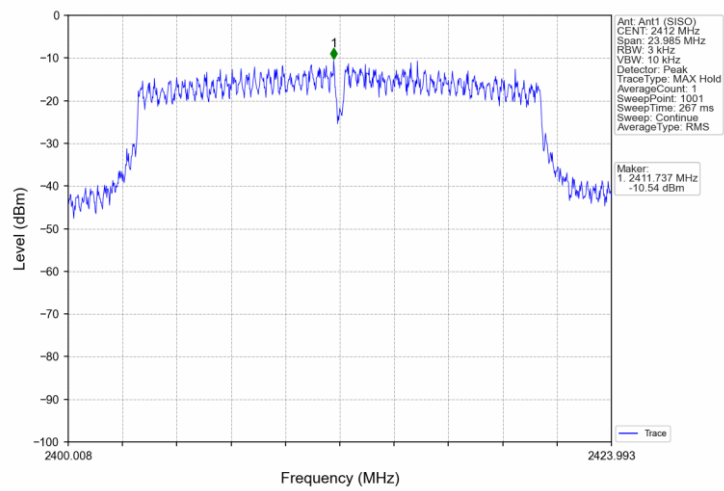
802.11g MCH 2437MHz ANT 1 (SISO) NTNV



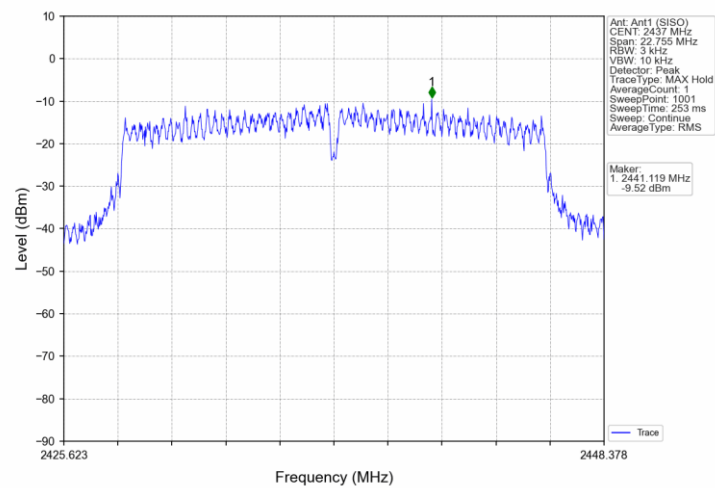
802.11g HCH 2462MHz ANT 1 (SISO) NTNV



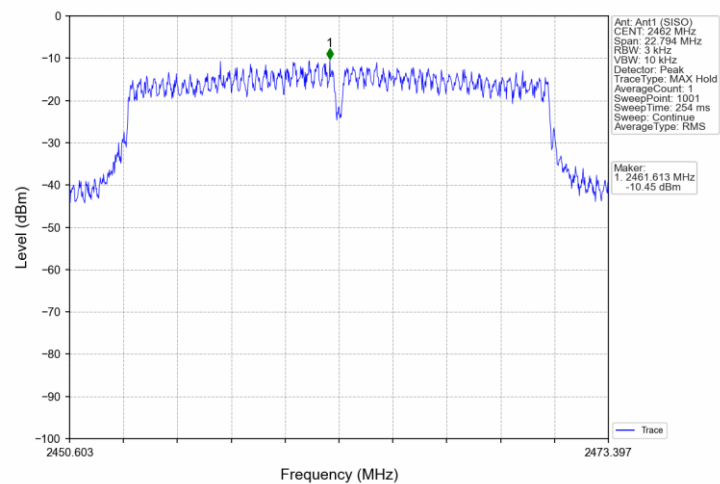
802.11n(HT20)_LCH_2412MHz_ANT_1 (SISO)_NTNV



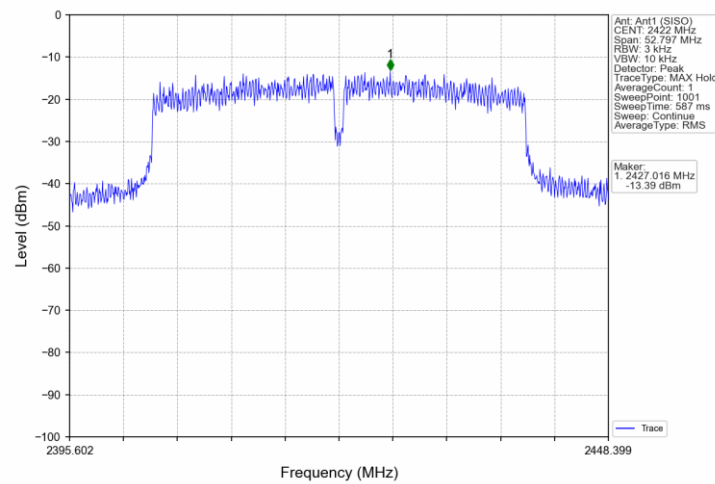
802.11n(HT20)_MCH_2437MHz_ANT_1 (SISO)_NTNV



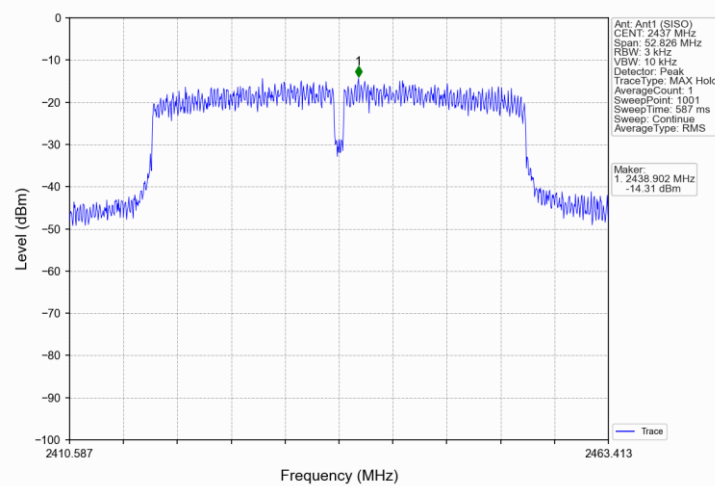
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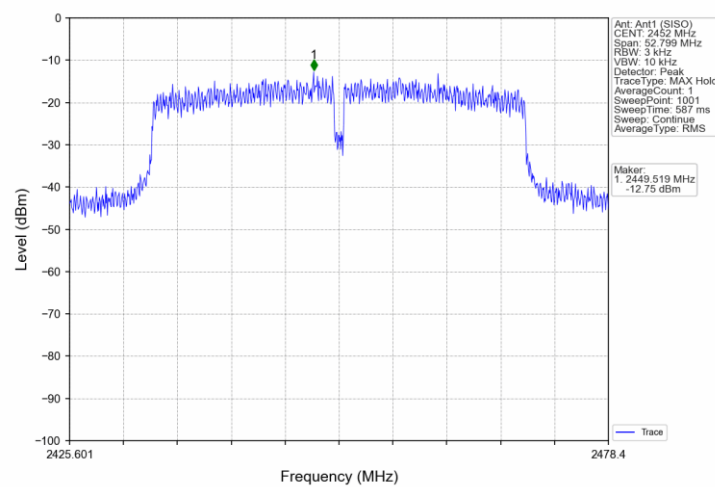
802.11n(HT40)_LCH_2422MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_ANT_1 (SISO)_NTNV



9.5 Spurious RF Conducted Emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

According to §15.247(d), Spurious RF Conducted Emissions limit as below:

Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

Test results

Reference:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	6.98
		2437	1	7.02
		2462	1	7.00
802.11g	SISO	2412	1	3.29
		2437	1	4.85
		2462	1	4.62
802.11n (HT20)	SISO	2412	1	3.86
		2437	1	4.32
		2462	1	4.32
802.11n (HT40)	SISO	2422	1	1.88
		2437	1	0.90
		2452	1	1.65

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.

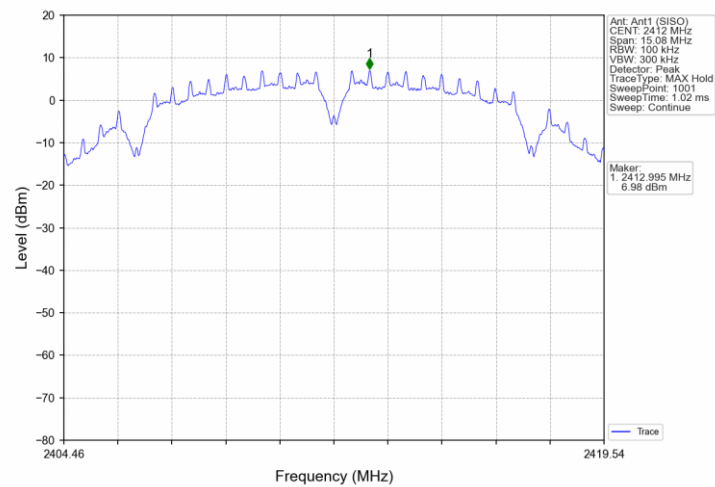
Conducted spurious emission:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.02	-12.98	Pass
		2437	1	7.02	-12.98	Pass
		2462	1	7.02	-12.98	Pass
802.11g	SISO	2412	1	4.85	-15.15	Pass
		2437	1	4.85	-15.15	Pass
		2462	1	4.85	-15.15	Pass
802.11n (HT20)	SISO	2412	1	4.32	-15.68	Pass
		2437	1	4.32	-15.68	Pass
		2462	1	4.32	-15.68	Pass
802.11n (HT40)	SISO	2422	1	1.88	-18.12	Pass
		2437	1	1.88	-18.12	Pass
		2452	1	1.88	-18.12	Pass

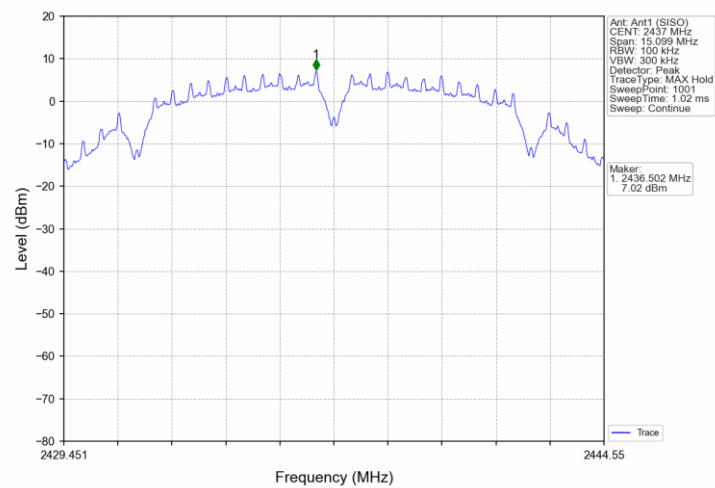
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Test Graphs

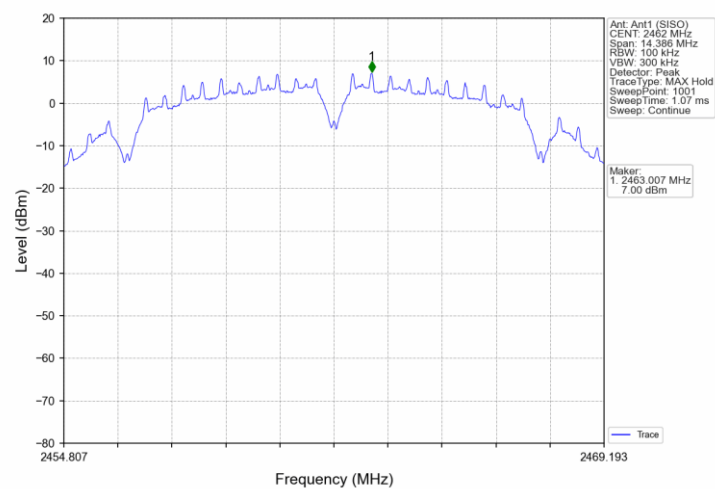
802.11b LCH 2412MHz ANT 1 (SISO) NTNV



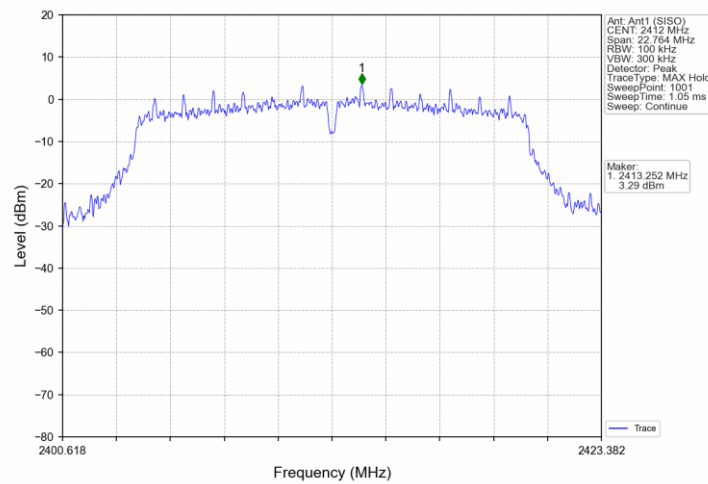
802.11b MCH 2437MHz ANT 1 (SISO) NTNV



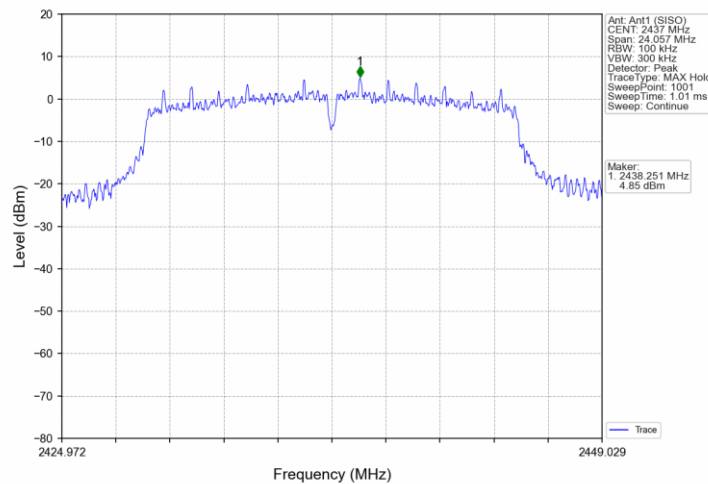
802.11b HCH 2462MHz ANT 1 (SISO) NTNV



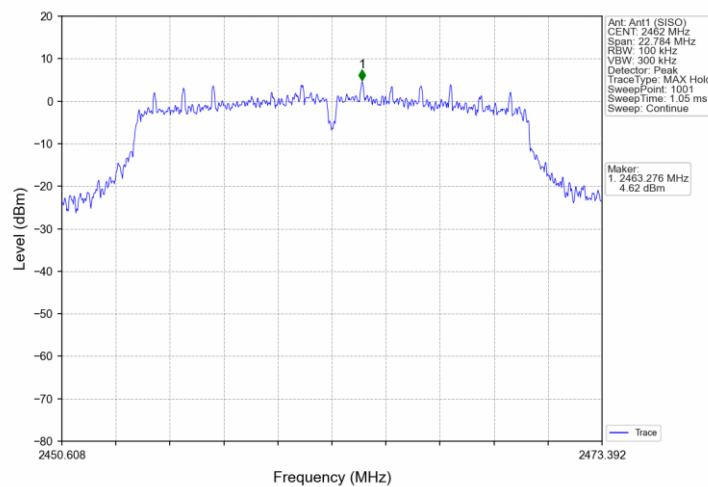
802.11g_LCH_2412MHz_ANT_1 (SISO) NTN



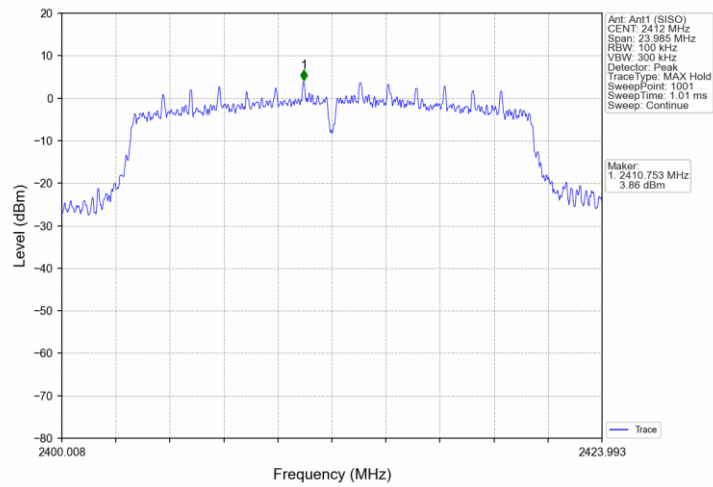
802.11g_MCH_2437MHz_ANT_1 (SISO) NTN



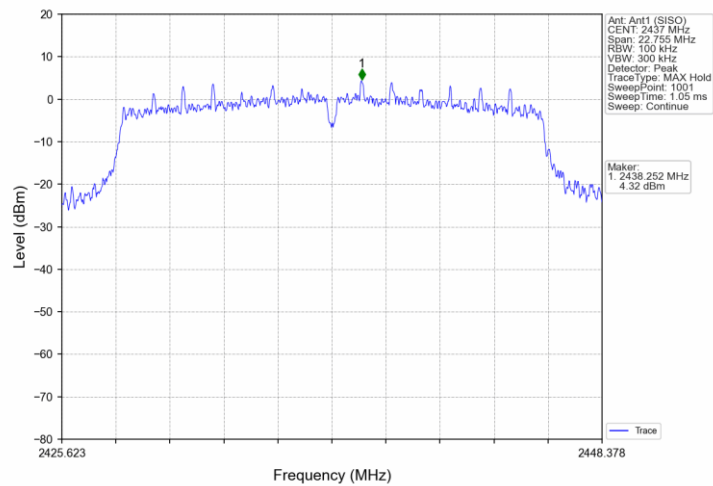
802.11g_HCH_2462MHz_ANT_1 (SISO) NTN



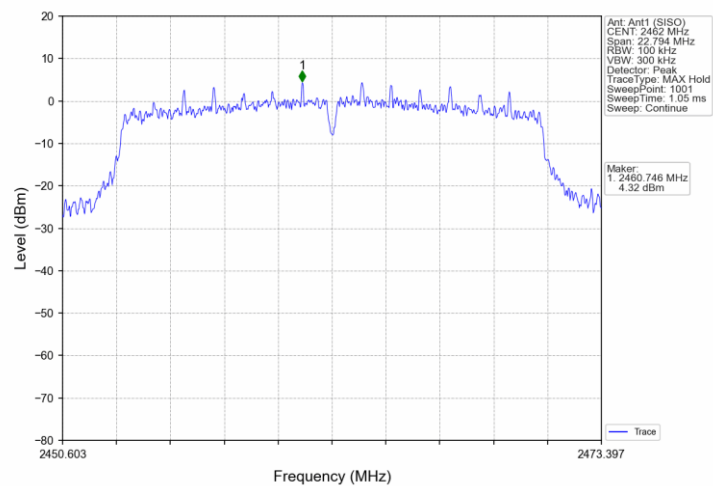
802.11n(HT20)_LCH_2412MHz_ANT_1 (SISO)_NTNV



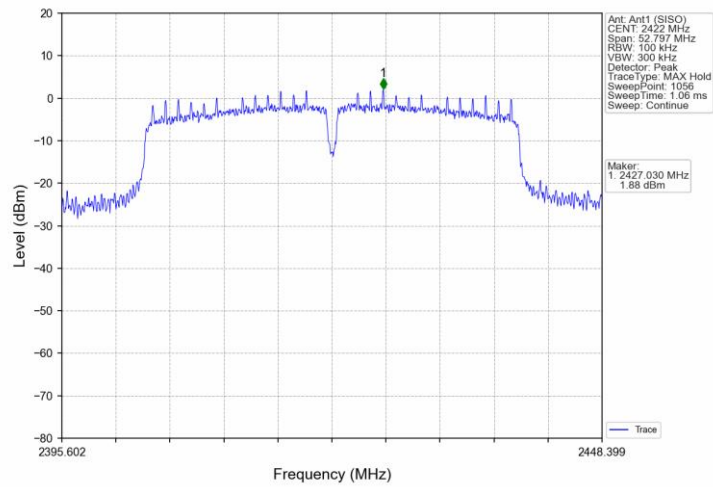
802.11n(HT20)_MCH_2437MHz_ANT_1 (SISO)_NTNV



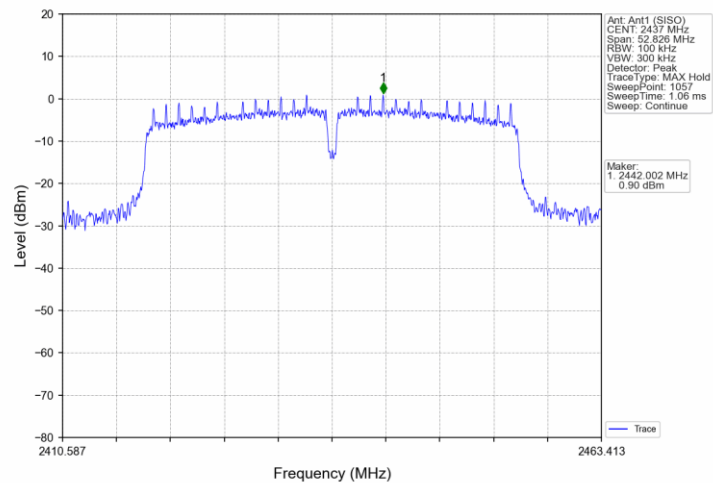
802.11n(HT20)_HCH_2462MHz_ANT_1 (SISO)_NTNV



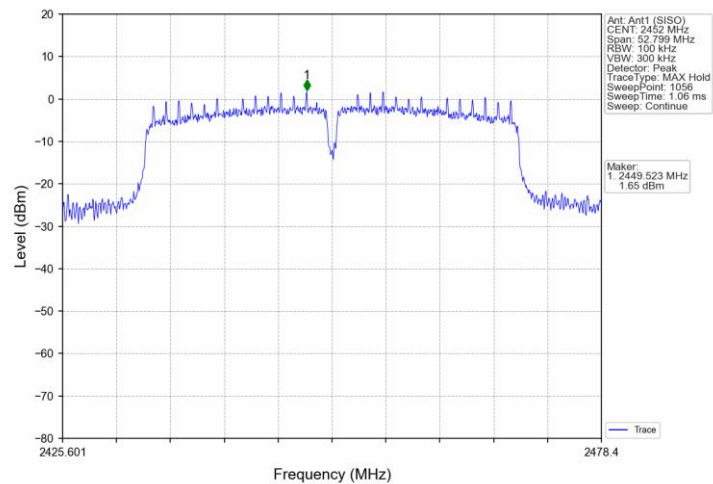
802.11n(HT40)_LCH_2422MHz_ANT_1 (SISO)_NTNV



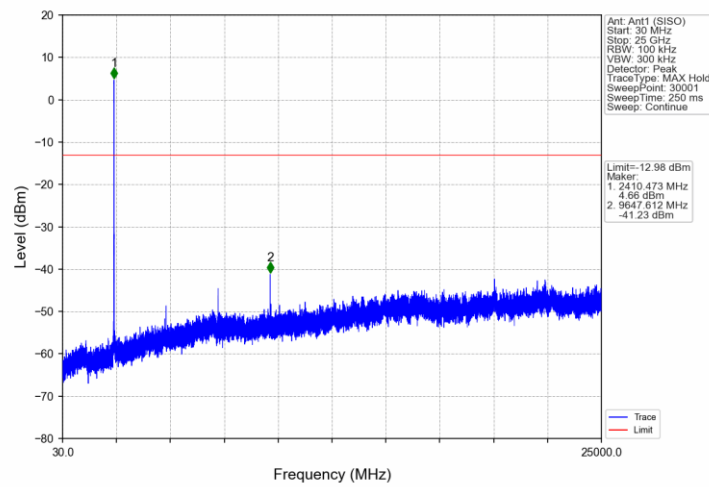
802.11n(HT40)_MCH_2437MHz_ANT_1 (SISO)_NTNV



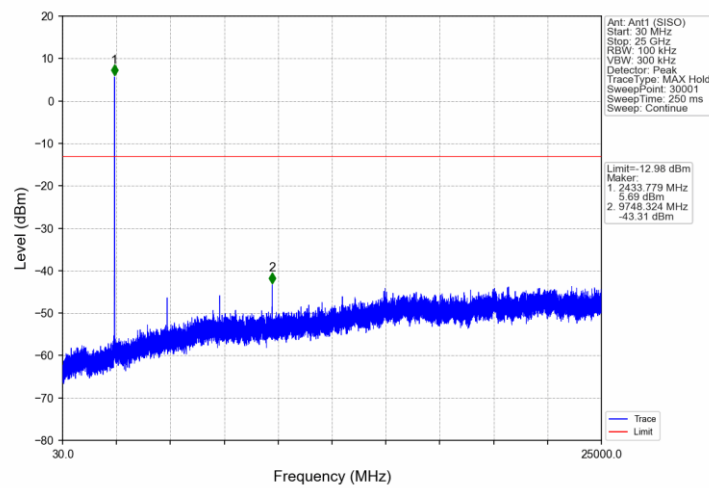
802.11n(HT40)_HCH_2452MHz_ANT_1 (SISO)_NTNV



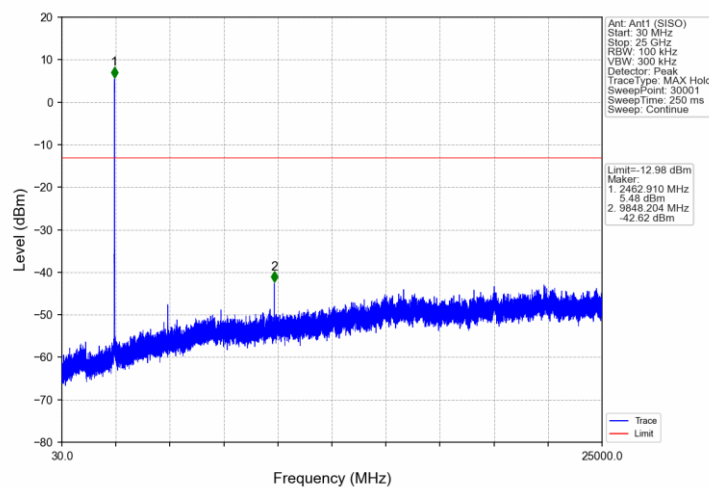
802.11b LCH 2412MHz_ANT_1 (SISO)_NTNV



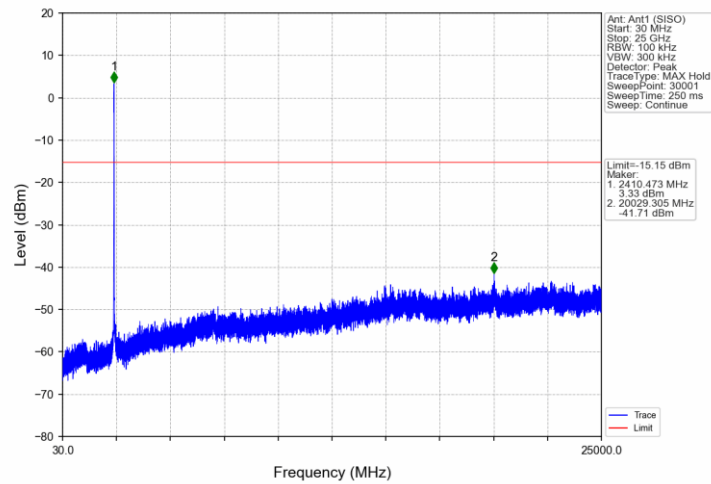
802.11b_MCH_2437MHz_ANT_1 (SISO)_NTNV



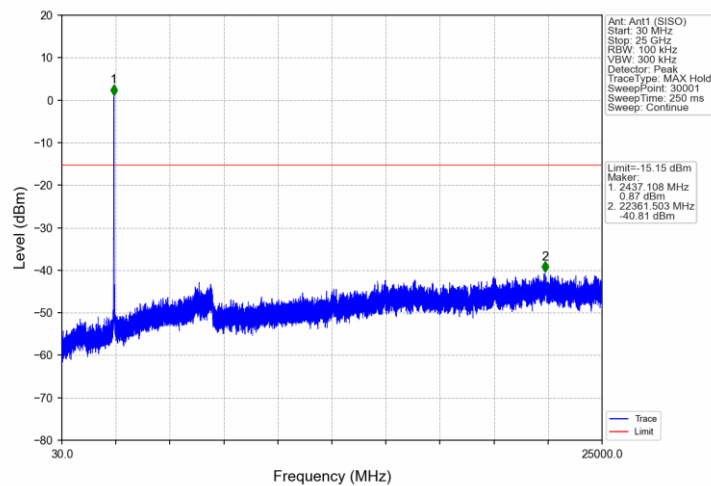
802.11b HCH 2462MHz_ANT_1 (SISO)_NTNV



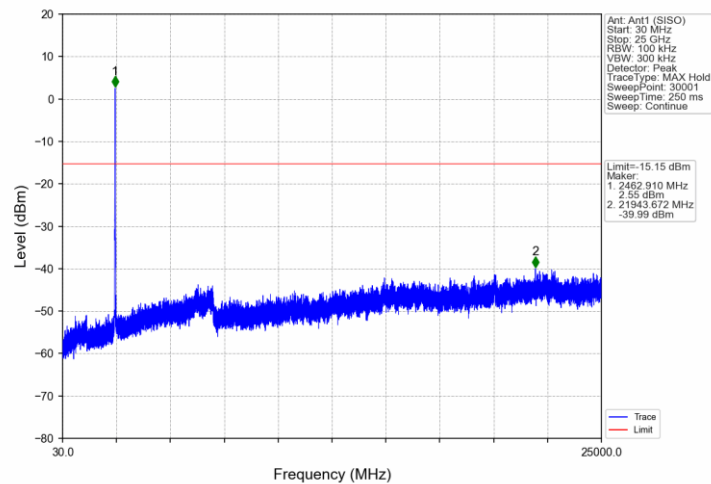
802.11g_LCH_2412MHz_ANT_1(SISO)_NTNV



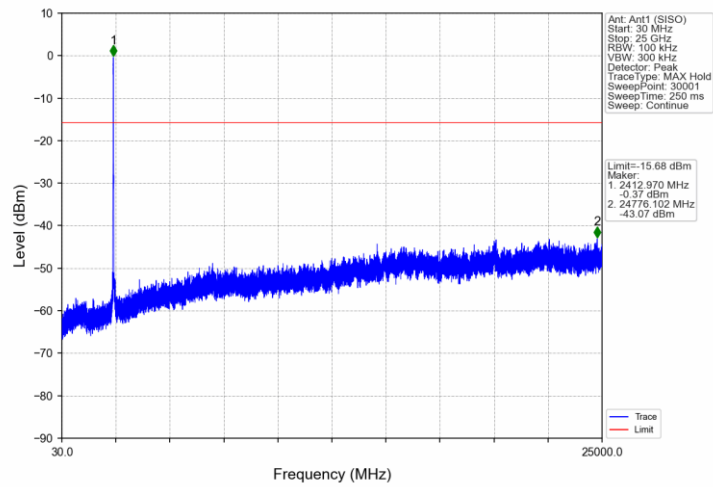
802.11g_MCH_2437MHz_ANT_1(SISO)_NTNV



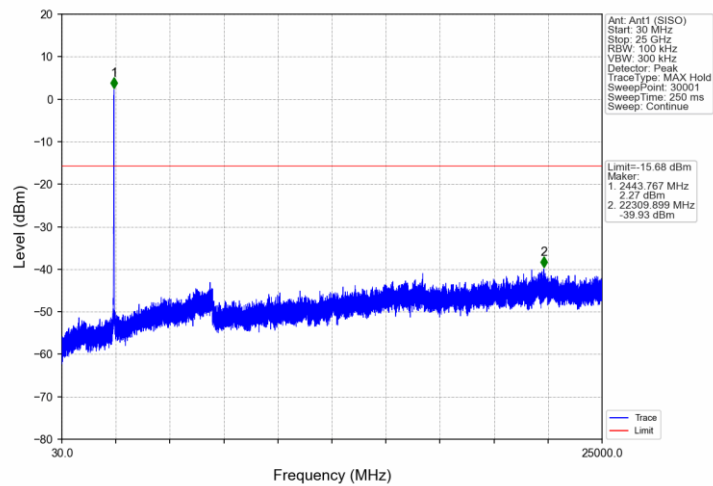
802.11g_HCH_2462MHz_ANT_1(SISO)_NTNV



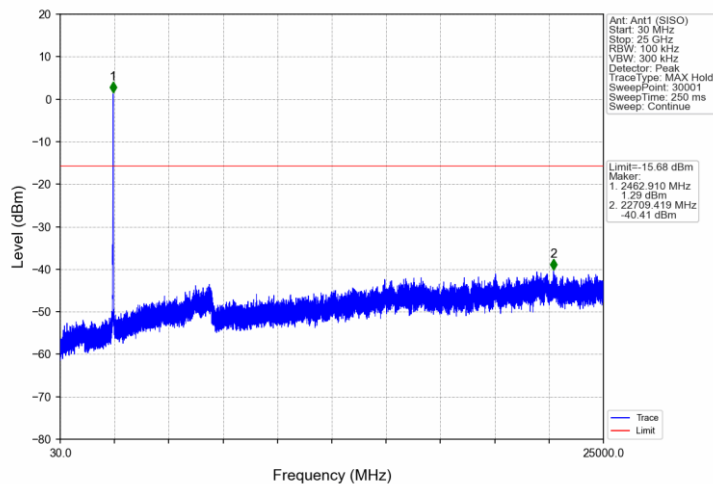
802.11n(HT20)_LCH_2412MHz_ANT_1 (SISO)_NTNV



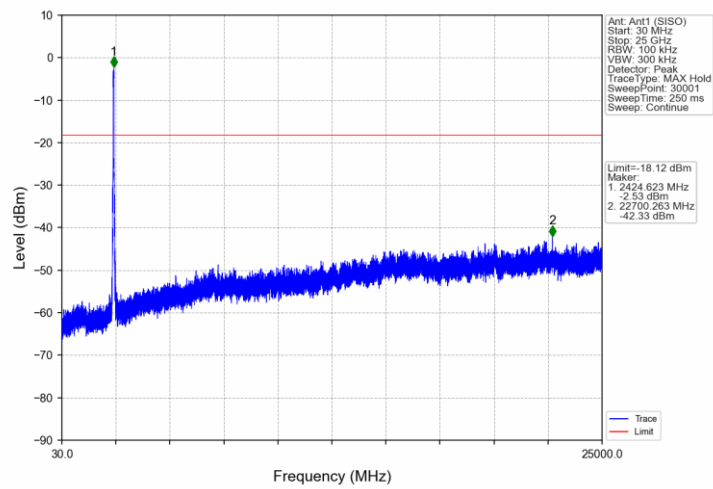
802.11n(HT20)_MCH_2437MHz_ANT_1 (SISO)_NTNV



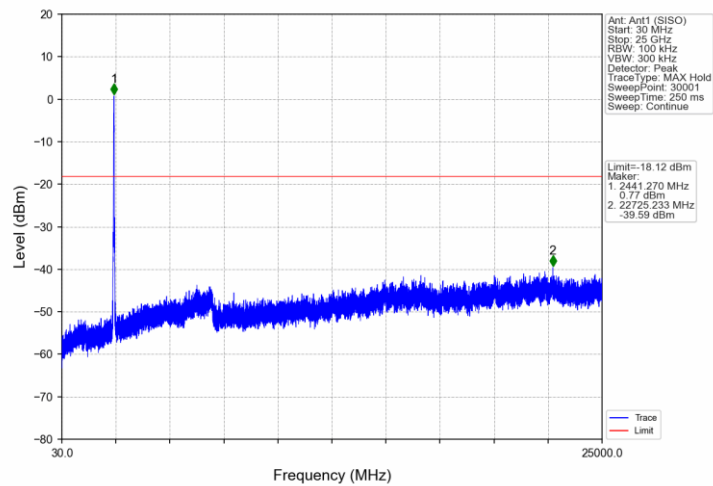
802.11n(HT20)_HCH_2462MHz_ANT_1 (SISO)_NTNV



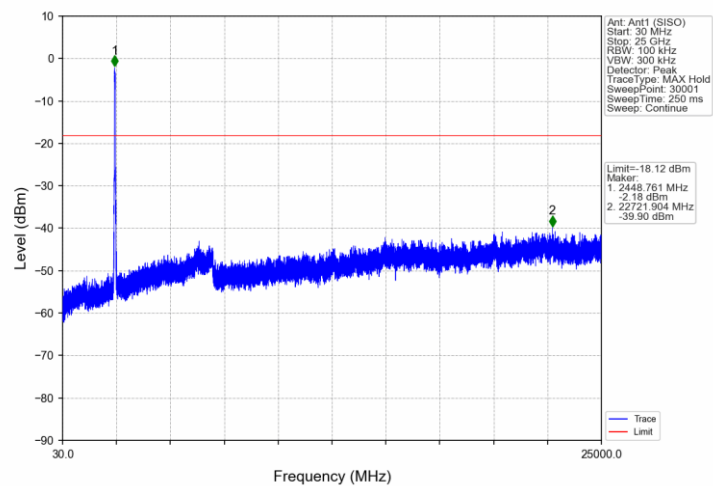
802.11n(HT40)_LCH_2422MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_ANT_1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_ANT_1 (SISO)_NTNV



9.6 Band Edge

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
5. The level displayed must comply with the limit specified in this Section.
6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit:

According to §15.247(d), Band Edge limit as below:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that 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 § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB.

Frequency Range MHz	Limit (dBc)
30-25000	-20

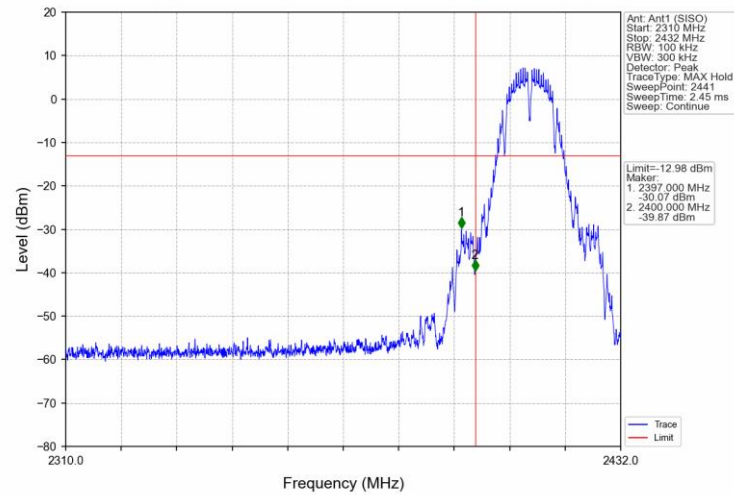
Band edge testing

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.02	<=-12.98	Pass
		2437	1	7.02	<=-12.98	Pass
		2462	1	7.02	<=-12.98	Pass
802.11g	SISO	2412	1	4.85	<=-15.15	Pass
		2437	1	4.85	<=-15.15	Pass
		2462	1	4.85	<=-15.15	Pass
802.11n (HT20)	SISO	2412	1	4.32	<=-15.68	Pass
		2437	1	4.32	<=-15.68	Pass
		2462	1	4.32	<=-15.68	Pass
802.11n (HT40)	SISO	2422	1	1.88	<=-18.12	Pass
		2437	1	1.88	<=-18.12	Pass
		2452	1	1.88	<=-18.12	Pass

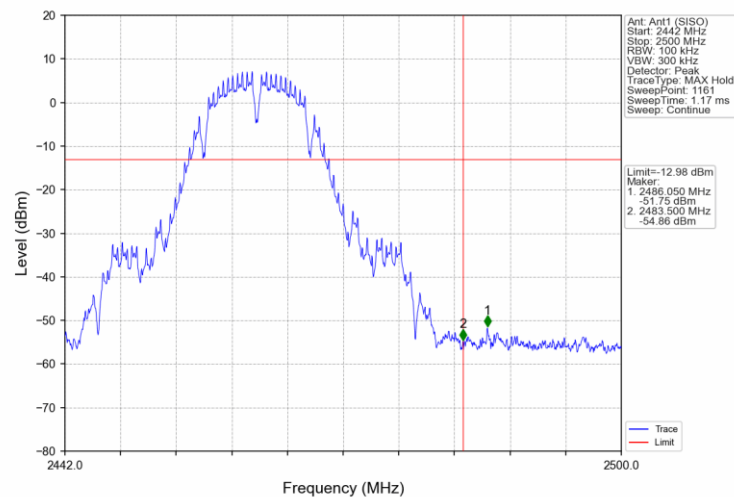
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Test Graphs

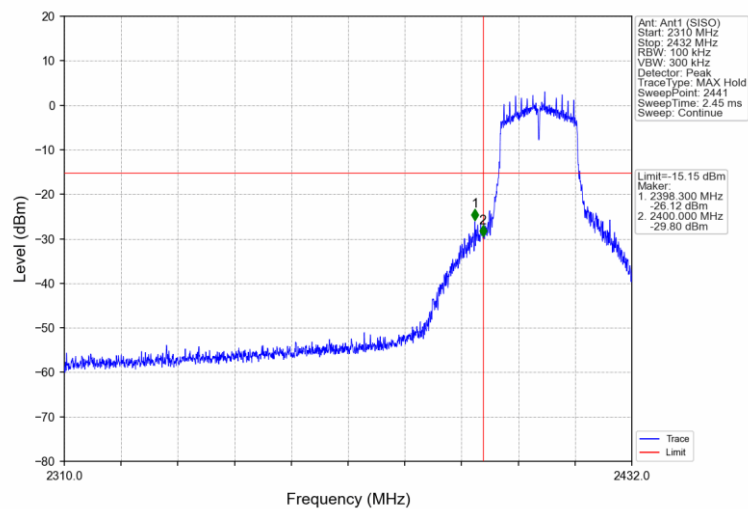
802.11b_LCH_2412MHz_ANT_1(SISO)_NTNV



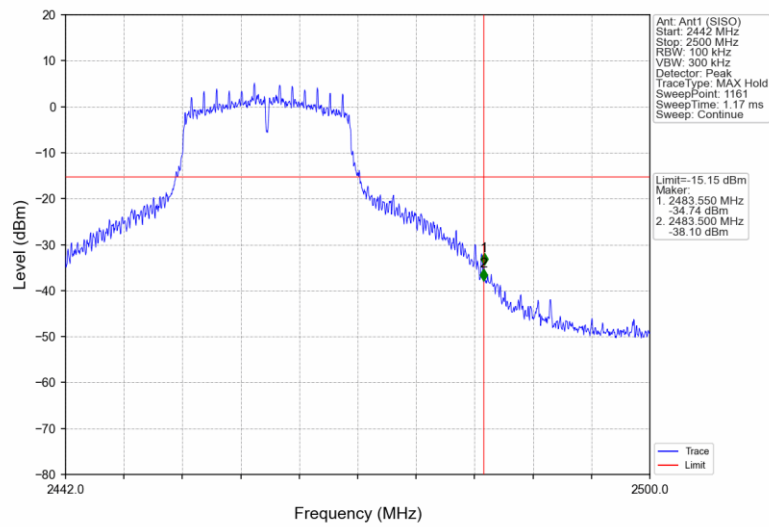
802.11b_HCH_2462MHz_ANT_1(SISO)_NTNV



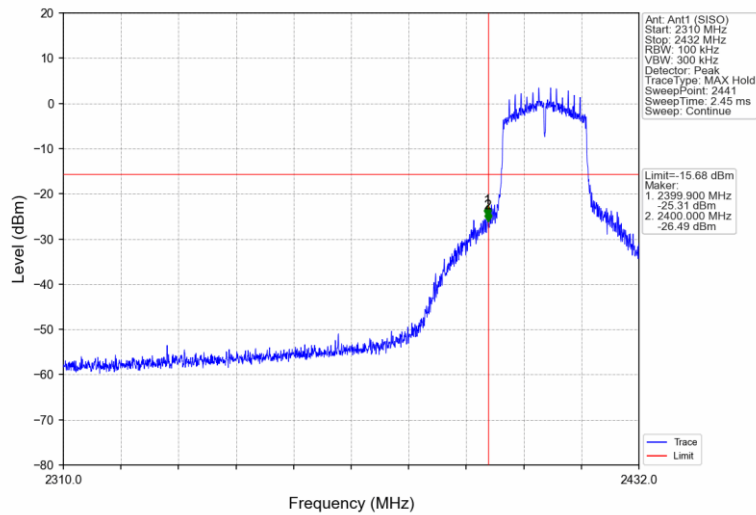
802.11g_LCH_2412MHz_ANT_1(SISO)_NTNV



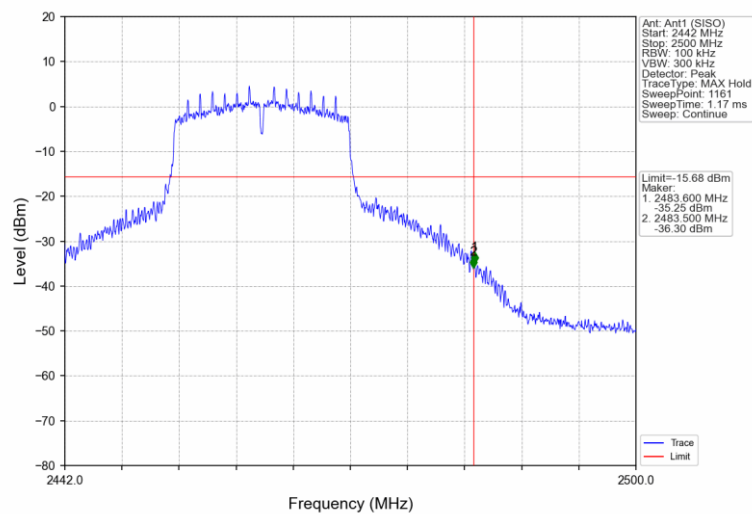
802.11g_HCH_2462MHz_ANT_1 (SISO)_NTNV



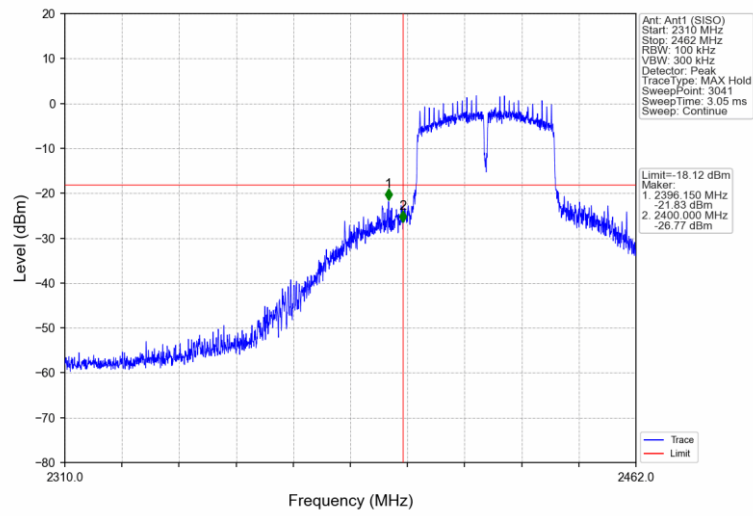
802.11n(HT20)_LCH_2412MHz_ANT_1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_ANT_1 (SISO)_NTNV



802.11n(HT40) LCH 2422MHz ANT 1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz ANT 1 (SISO) NTNV

