

FCC - TEST REPORTReport Number : **68.910.25.0001.01** Date of Issue: 2025-02-18Model/HVIN : **EFS-C671-WUST, EFS-C671-xxxx('x' can be A to Z and Blank, the 1st 'x' stands for different color; the 2nd and 3rd 'x' stands for different sales regions; the 4th 'x' stands for different sales channels)**

Product Type : Smart Fitness Scale

Applicant : Etekcity Corporation

Address : 1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782, USA

Manufacturer : Etekcity Corporation

Address : 1775 FLIGHT WAY, SUITE 150 TUSTIN, CA 92782, USA

Factory : Shenzhen Unique Scales Co., Ltd

Address : 301&601, no. 22, Huanping Road, Gaogiao Community,

Pingdi, Longgang District, Shenzhen City,

Guangdong Province, China

Test Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : **57**

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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:	Smart Fitness Scale
Model no.:	EFS-C671-WUST, EFS-C671-xxxx('x' can be A to Z and Blank, the 1st 'x' stands for different color; the 2nd and 3rd 'x' stands for different sales regions; the 4th 'x' stands for different sales channels)
FCC ID:	2AB22-EFSC671
Options and accessories:	NIL
Ratings:	DC 5V, 500mA Battery type: DC 3.7V, 300mAh Li-ion battery
RF Transmission Frequency:	2402MHz-2480MHz (for BLE-1Mbps/2Mbps)
No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	2.6dBi
Description of the EUT:	The EUT is a Smart Fitness Scale, supports BLE-1Mbps/2Mbps function, operates at 2402 – 2480MHz.
Remark:	All models have the same circuit, PCB layout, components and physical structure, only the appearance color and model name are different. Unless otherwise specified, the model EFS-C671-WUST was chosen as representative sample to perform EMC full tests, other models were deemed to fulfil relevant requirements without further testing.

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						
Test Condition		Test Site	Test Result			Test Environment
			Pass	Fail	N/A	
§15.207	Conducted emission AC power port	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.1°C H: 51.2%
§15.247 (b) (3)	Conducted peak output power	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.4°C H: 52.7%
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.4°C H: 52.7%
§15.247(e)	Power spectral density	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.7°C H: 52.7%
§15.247(d)	Spurious RF conducted emissions	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.8°C H: 52.7%
§15.247(d)	Band edge	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.1°C H: 58.0%
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T: 23.2°C H: 58.1%
§15.203	Antenna requirement	See note 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	--

Note 1: N/A=Not Applicable.

Note 2: The EUT use a PCB antenna, which gain of antenna is 2.6dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

Note 3: T=Temperature, H=Humidity

6 General Remarks

The conducted emissions of EFS-C671-WUST were tested with an auxiliary adapter, and the input voltage is 120VAC/60Hz; The RF tests of EFS-C671-WUST were tested with battery operation, the battery voltage is 3.7VDC.

This submittal(s) (test report) is intended for FCC ID: 2AB22-EFSC671 complies with Section 15.207, 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

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: 2025-02-10

Testing Start Date: 2025-02-11

Testing End Date: 2025-02-13

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


Reviewed by:


Prepared by:

Tested by:



Jessie He
Project Manager

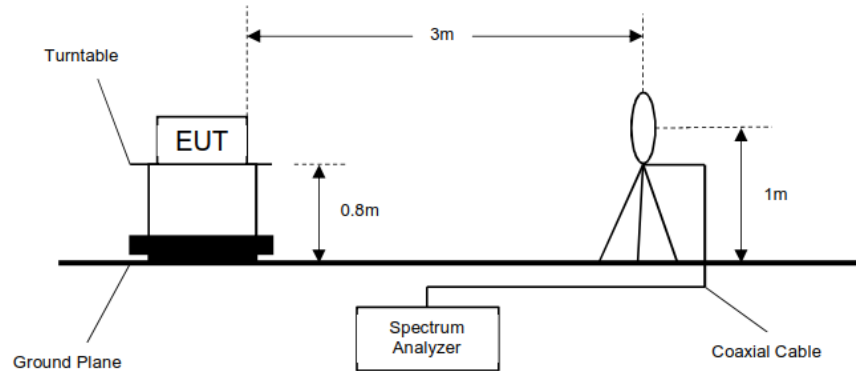

Myron Yu
Project Engineer


Carry Cai
Test Engineer

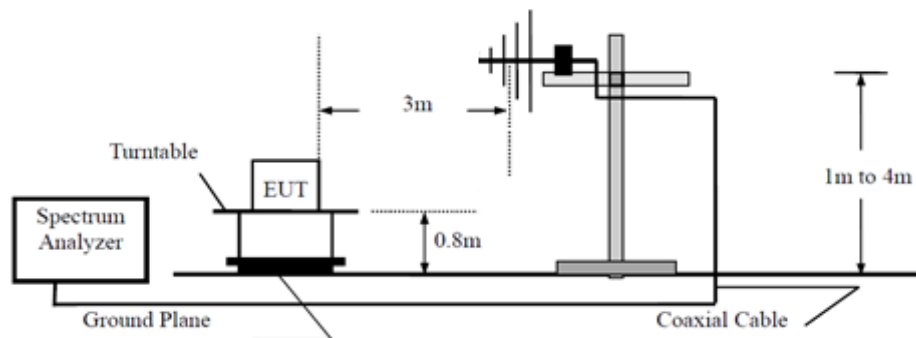
7 Test Setups

7.1 Radiated test setups

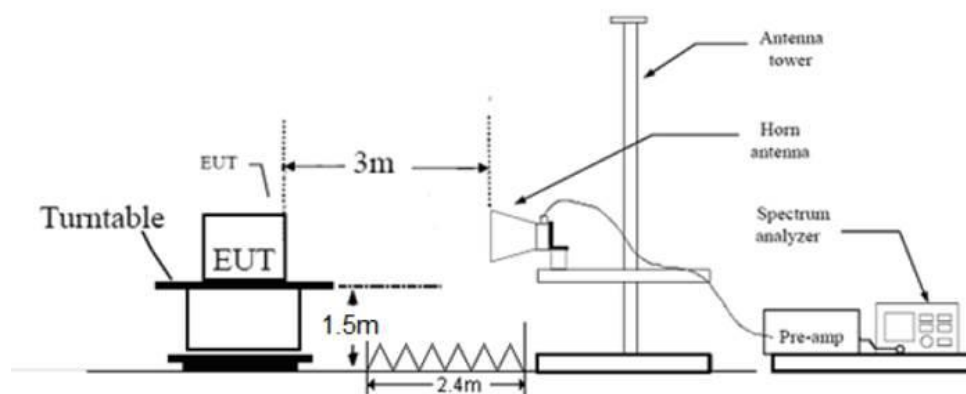
9kHz - 30MHz



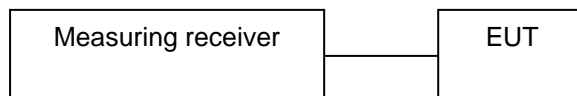
Below 1GHz



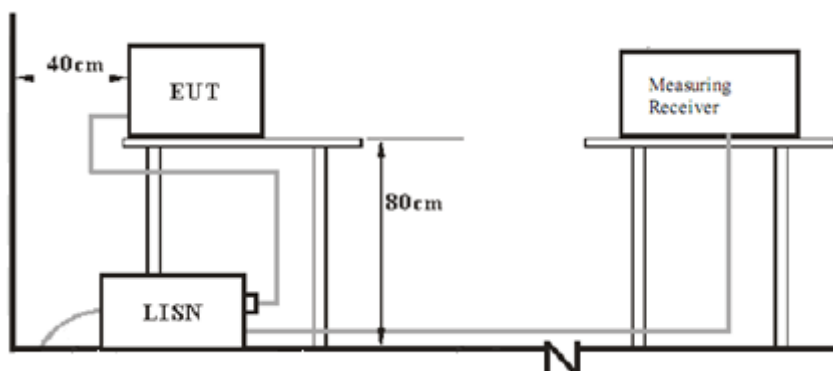
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	REMARK
Notebook	LENOVO	X220	---

Test software information:

Test Software Version	LF_FCC_CF597_X24_6621ED_ble_app_hci.bin	
Modulation	Setting TX Power	Packet Type
GFSK	0	Pn9

The system was configured to non-hopping mode, testing channel 0, 19, 39.

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:

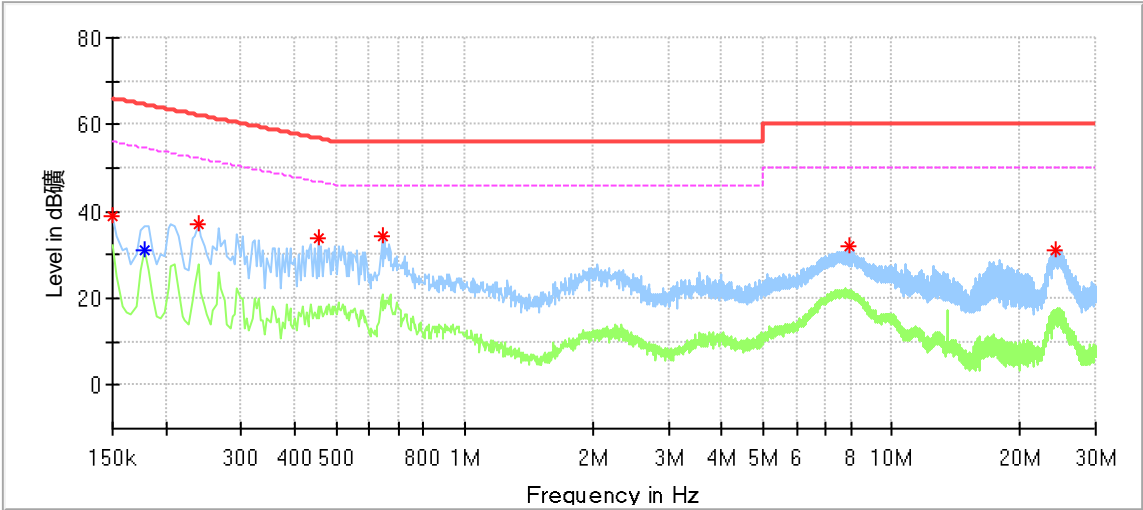
Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency



Conducted Emission

Product Type : Smart Fitness Scale
M/N : EFS-C671-WUST
Operating Condition : BLE communication mode
Test Specification : L
Comment : AC 120V/60Hz



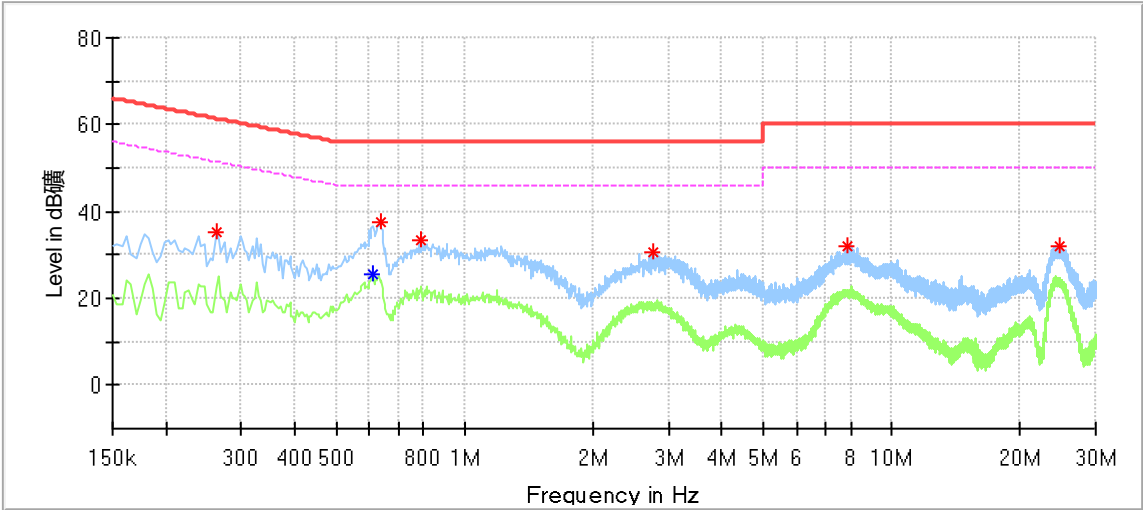
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	38.86	---	66.00	27.14	L1	9.68
0.178000	---	31.09	54.58	23.48	L1	9.67
0.238000	36.90	---	62.17	25.26	L1	9.67
0.454000	33.82	---	56.80	22.98	L1	9.67
0.642000	34.33	---	56.00	21.67	L1	9.68
7.926000	32.01	---	60.00	27.99	L1	9.89
24.118000	31.23	---	60.00	28.77	L1	10.07



Conducted Emission

Product Type : Smart Fitness Scale
M/N : EFS-C671-WUST
Operating Condition : BLE communication mode
Test Specification : N
Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.262000	35.22	---	61.37	26.15	N	9.66
0.610000	---	25.54	46.00	20.46	N	9.67
0.634000	37.53	---	56.00	18.47	N	9.67
0.794000	33.26	---	56.00	22.74	N	9.67
2.778000	30.66	---	56.00	25.34	N	9.72
7.850000	31.78	---	60.00	28.22	N	9.87
24.614000	31.93	---	60.00	28.07	N	10.16

9.2 Conducted Output Power

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 and enable the EUT transmit continuously.
3. Use the following test receiver settings:
Span = approximately 5 times the 6dB bandwidth, centered on a channel need to test,
RBW > the 6dB bandwidth of the emission being measured, VBW \geq 3RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

Limit

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

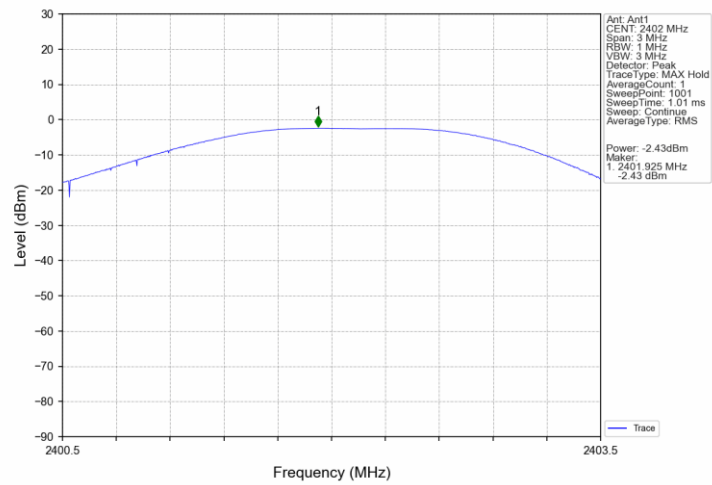
Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test Results

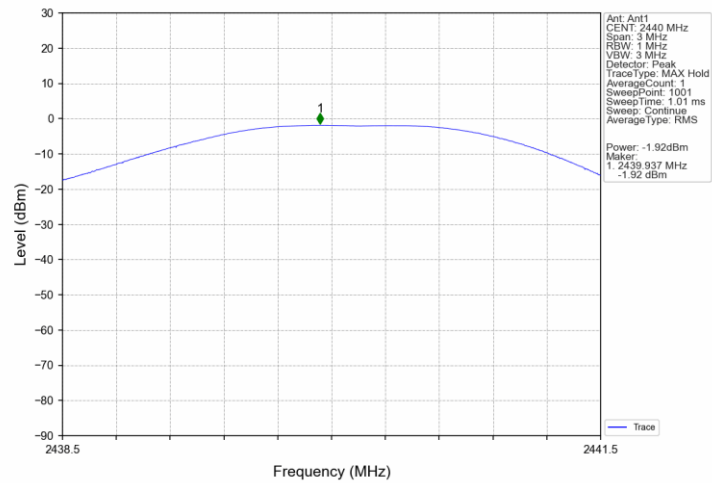
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-2.43	≤ 30	Pass
		2440	-1.92	≤ 30	Pass
		2480	-1.48	≤ 30	Pass
2M	SISO	2402	-2.40	≤ 30	Pass
		2440	-1.94	≤ 30	Pass
		2480	-1.49	≤ 30	Pass



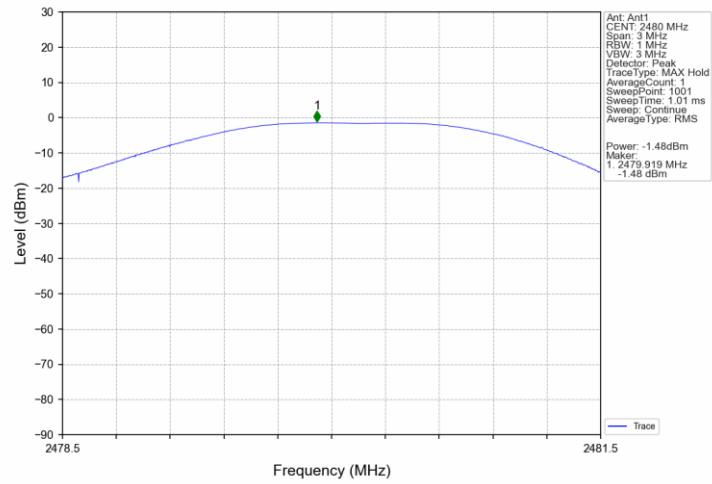
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

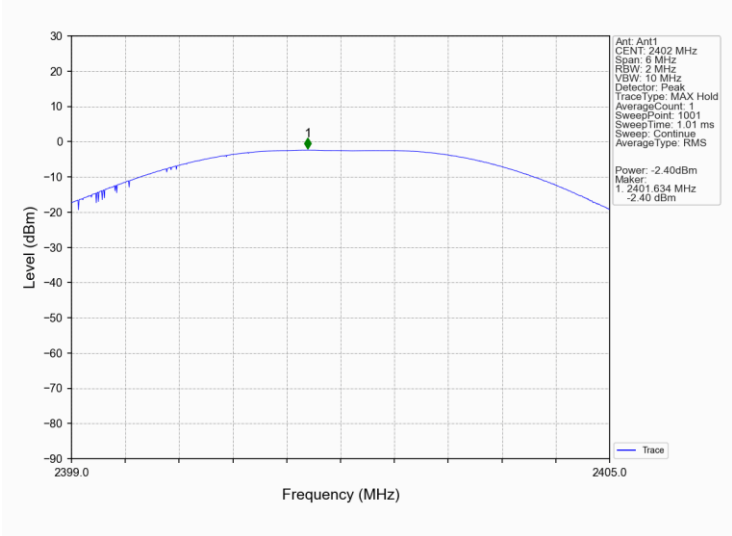


1M_HCH_2480MHz_Ant1_NTNV

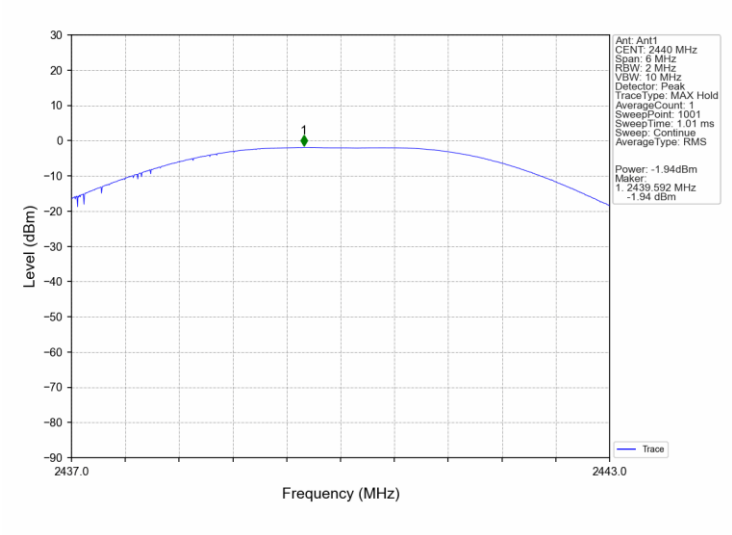




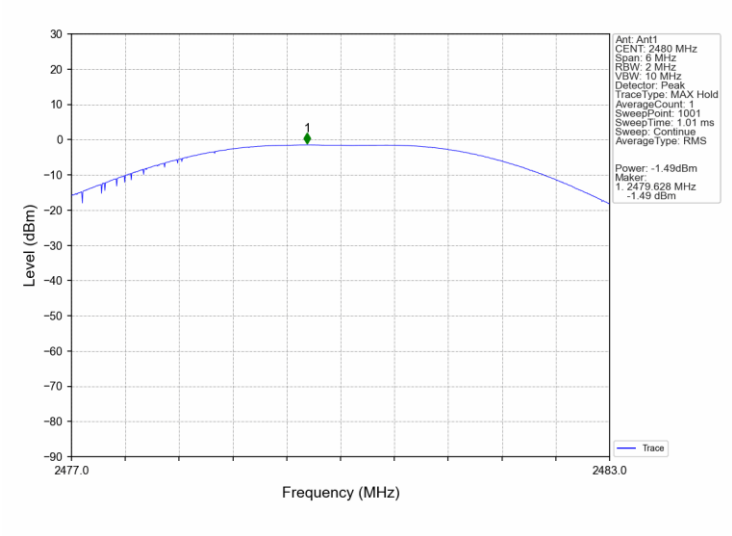
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





9.3 6 dB 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=1% to 5% of the occupied bandwidth but not less than 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.

Limit

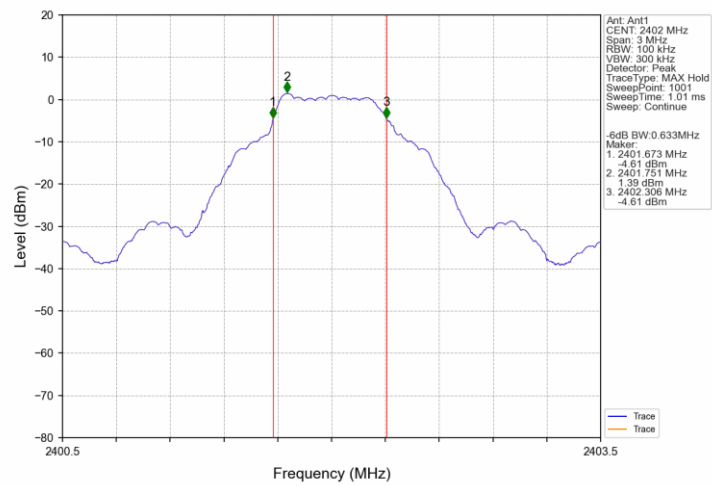
6dB bandwidth Limit [kHz]
≥500

Test result for 6 dB Bandwidth

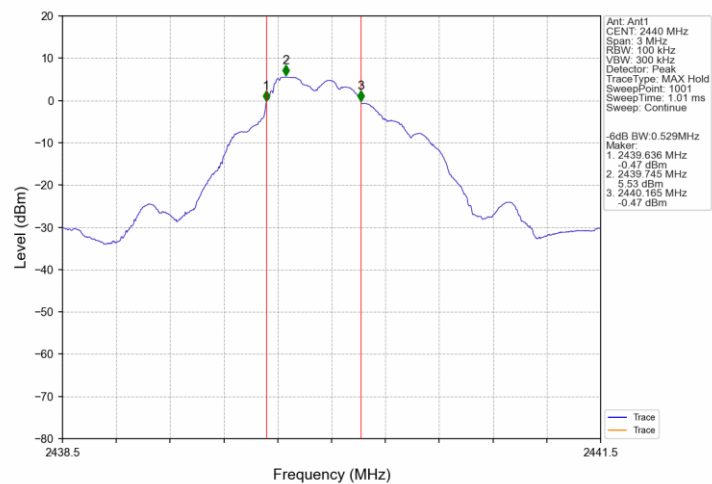
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.633	≥0.5	Pass
		2440	1	0.529	≥0.5	Pass
		2480	1	0.550	≥0.5	Pass
2M	SISO	2402	1	1.117	≥0.5	Pass
		2440	1	1.135	≥0.5	Pass
		2480	1	1.132	≥0.5	Pass



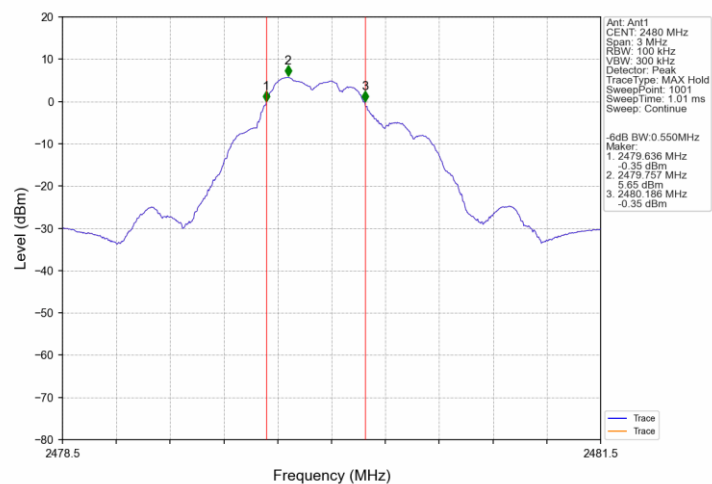
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV

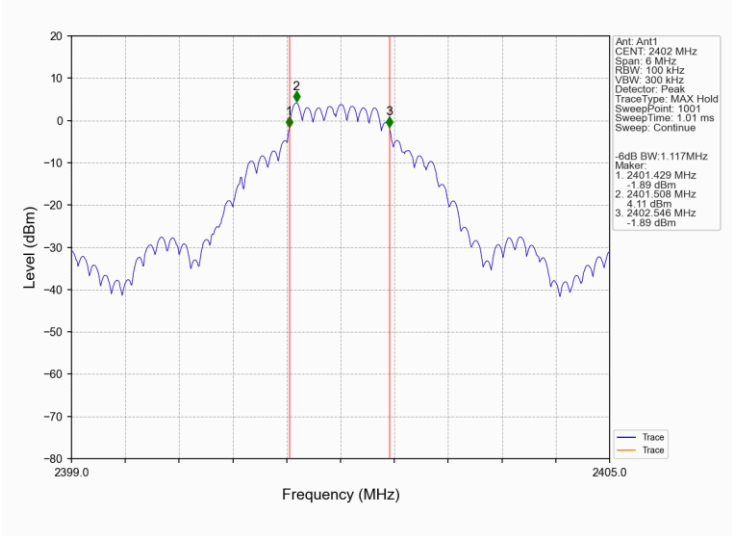


1M_HCH_2480MHz_Ant1_NTNV

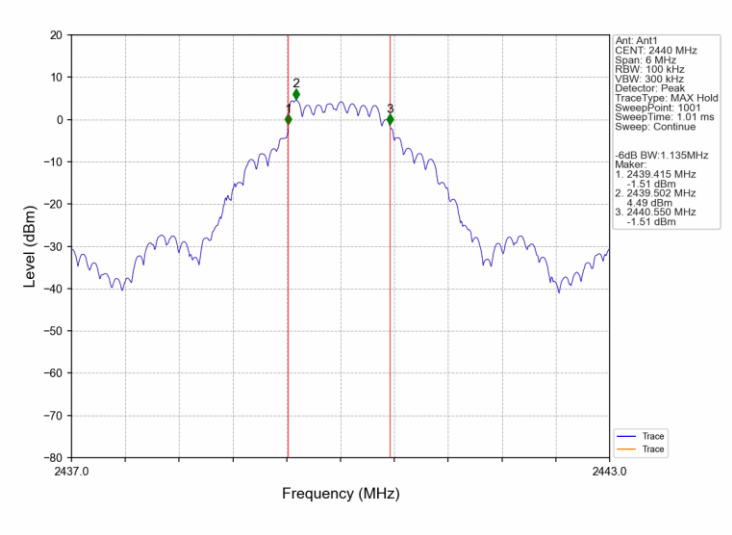




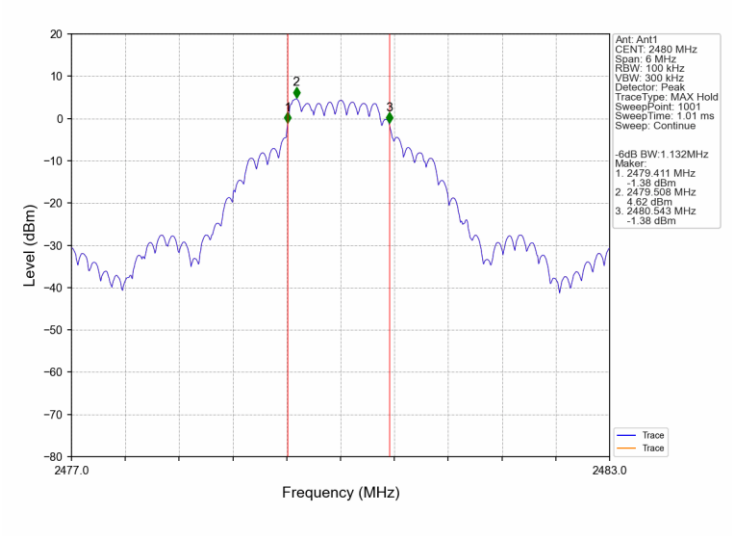
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_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.

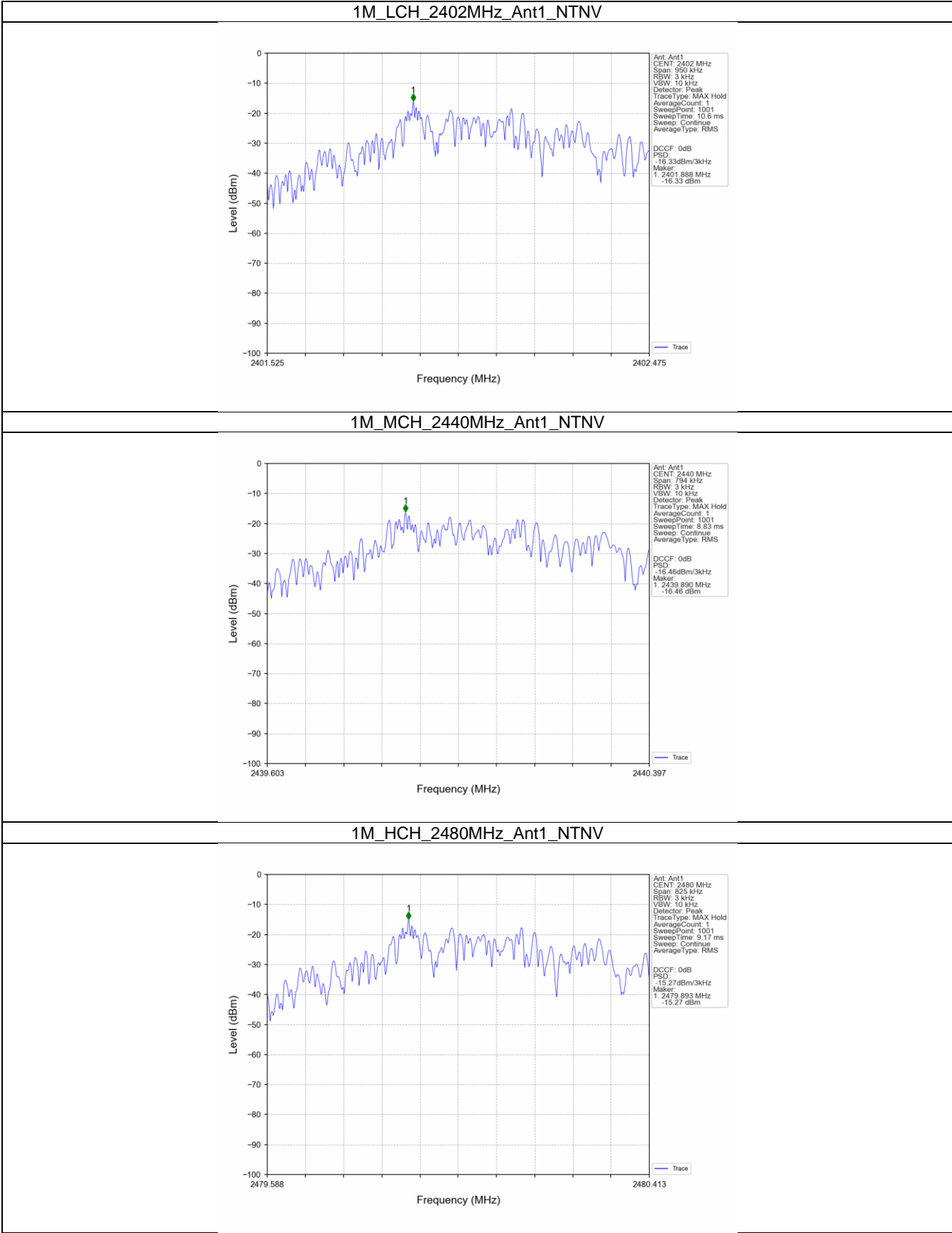
Limit

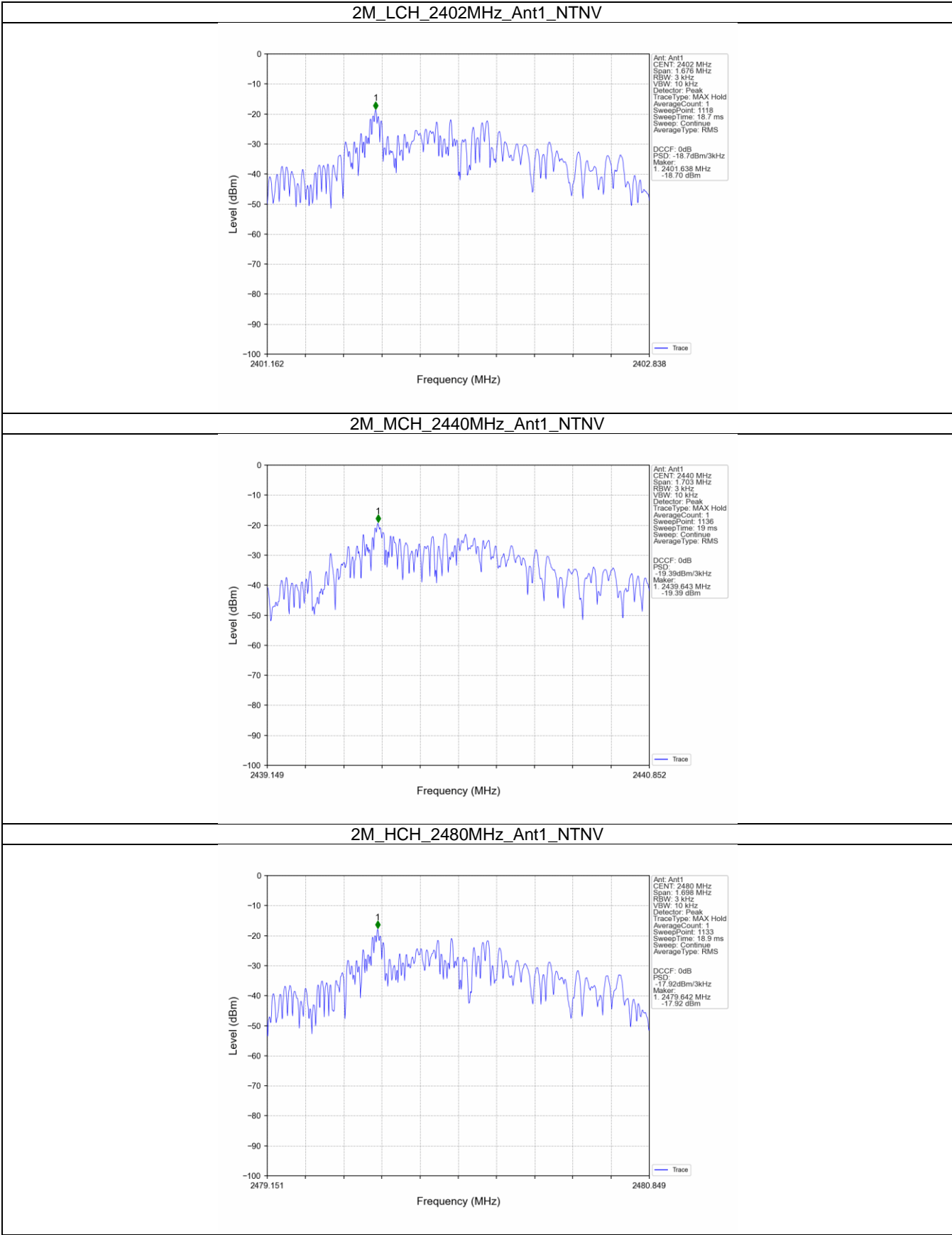
Limit [dBm/3kHz]

≤ 8

Test Results

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.33	≤ 8	Pass
		2440	-16.46	≤ 8	Pass
		2480	-15.27	≤ 8	Pass
2M	SISO	2402	-18.70	≤ 8	Pass
		2440	-19.39	≤ 8	Pass
		2480	-17.92	≤ 8	Pass







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≥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

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

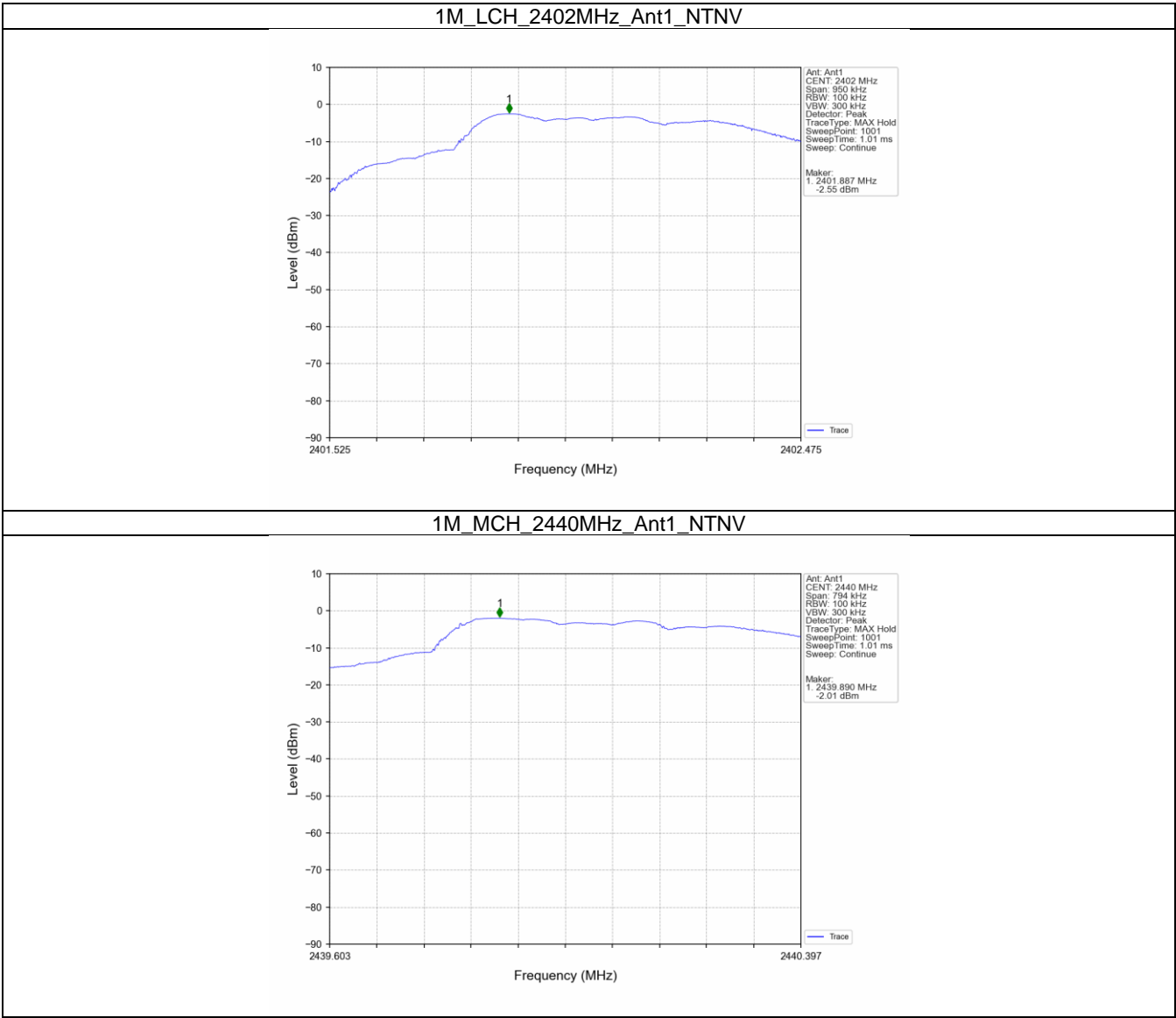


Test Result

Reference level:

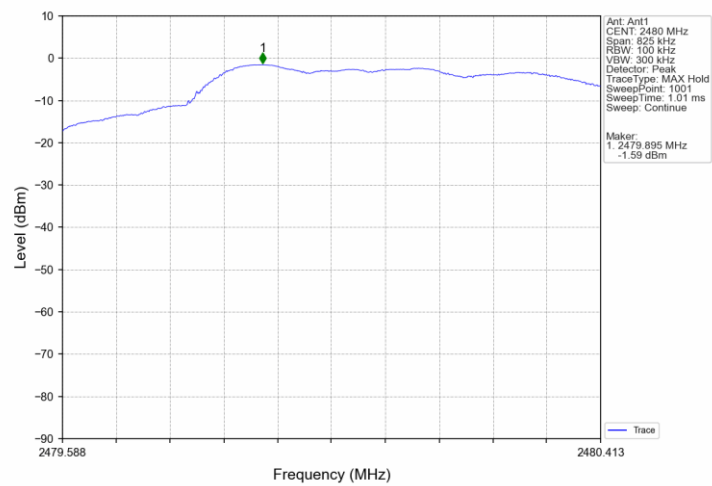
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-2.55
		2440	1	-2.01
		2480	1	-1.59
2M	SISO	2402	1	-2.49
		2440	1	-2.04
		2480	1	-1.61

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.

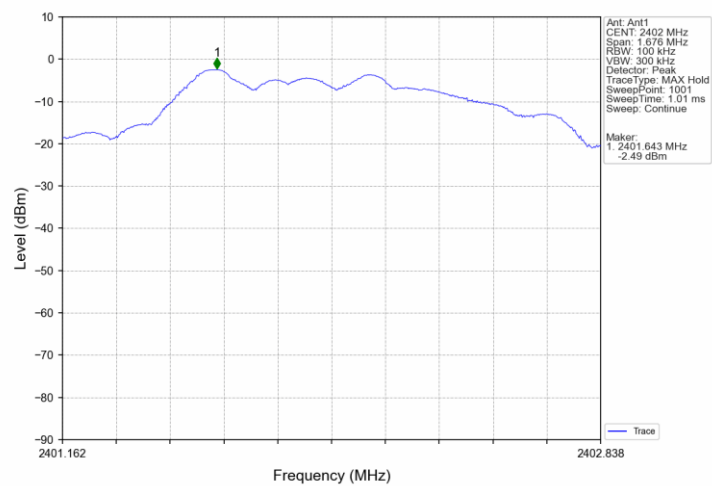




1M_HCH_2480MHz_Ant1_NTNV

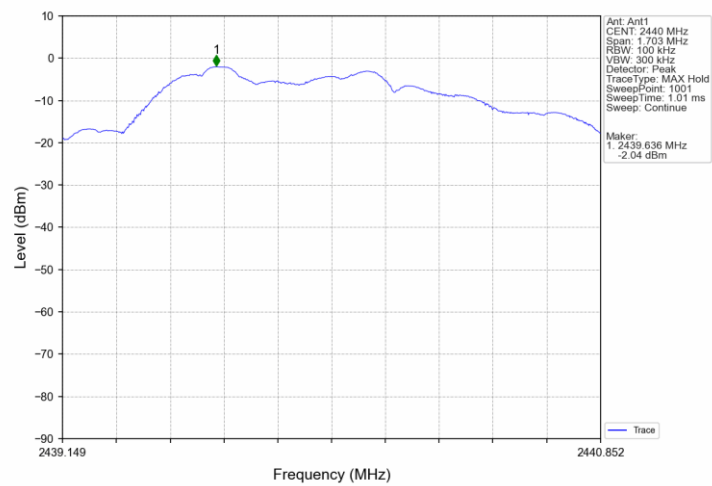


2M_LCH_2402MHz_Ant1_NTNV

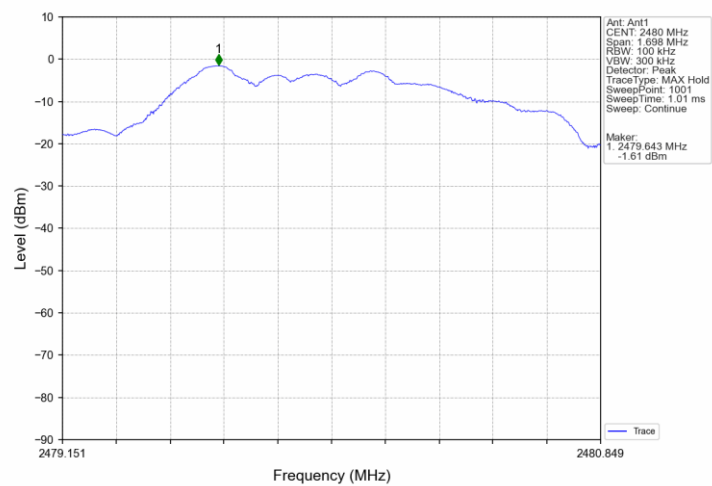




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

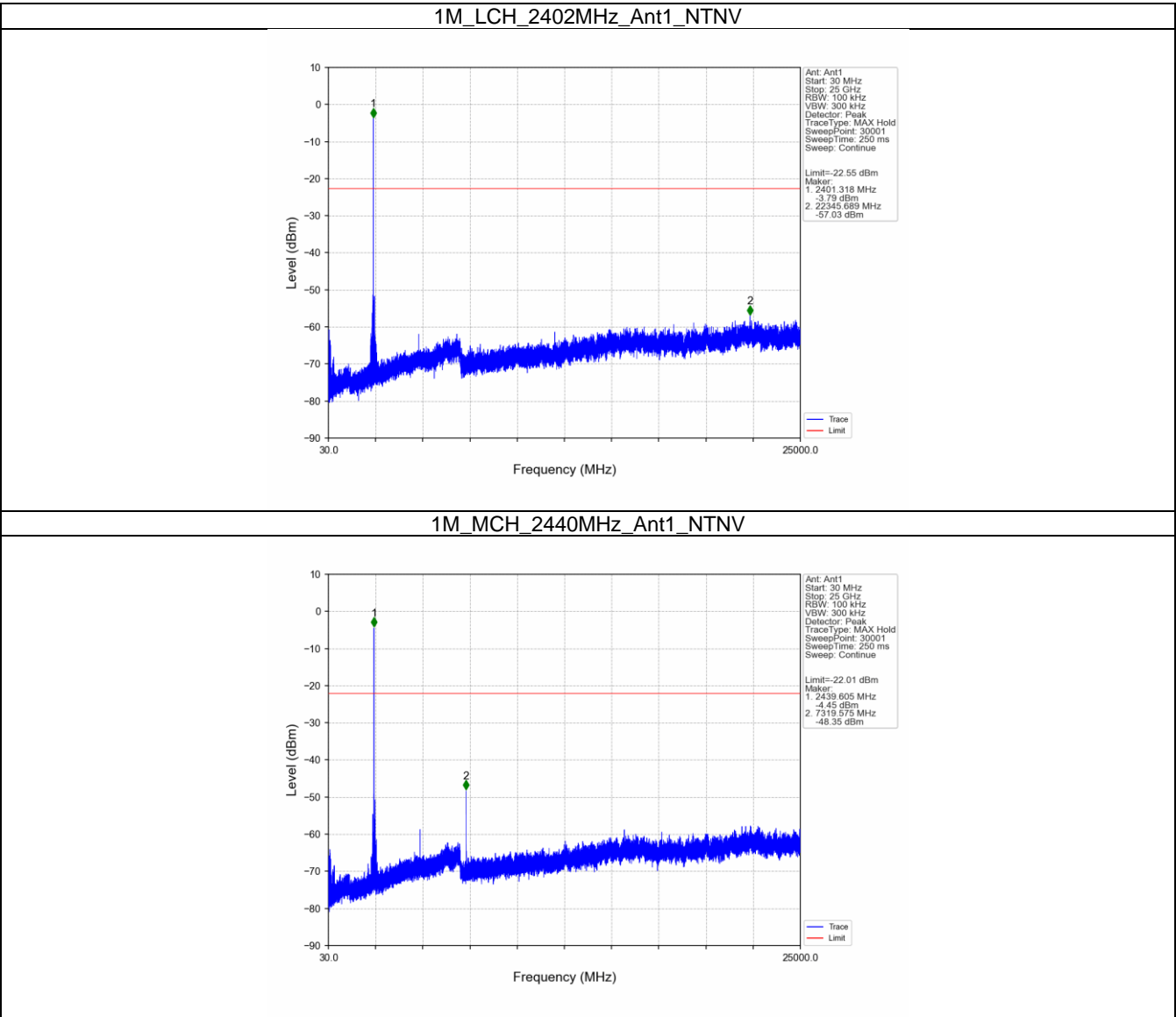




Conducted spurious emissions:

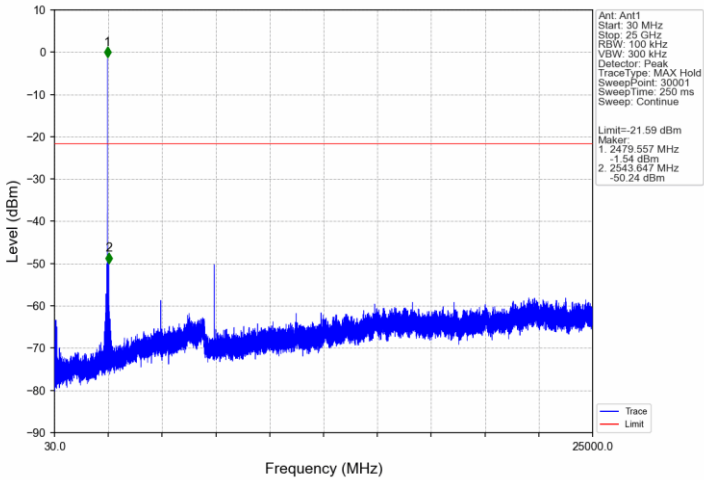
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-2.55	-22.55	Pass
		2440	1	-2.01	-22.01	Pass
		2480	1	-1.59	-21.59	Pass
2M	SISO	2402	1	-2.49	-22.49	Pass
		2440	1	-2.04	-22.04	Pass
		2480	1	-1.61	-21.61	Pass

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.

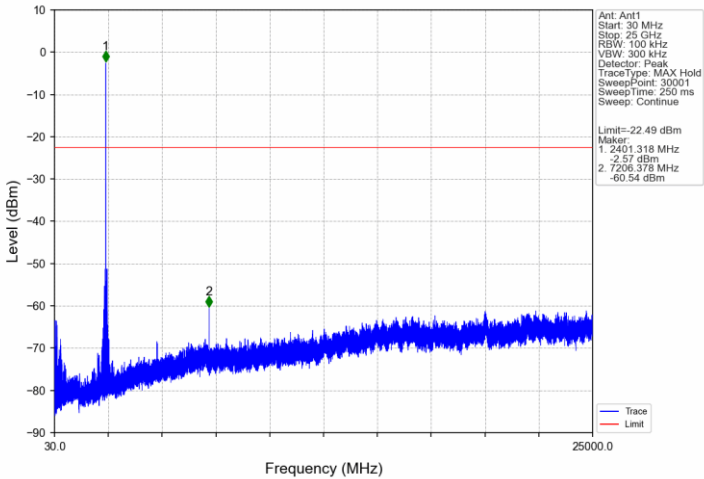




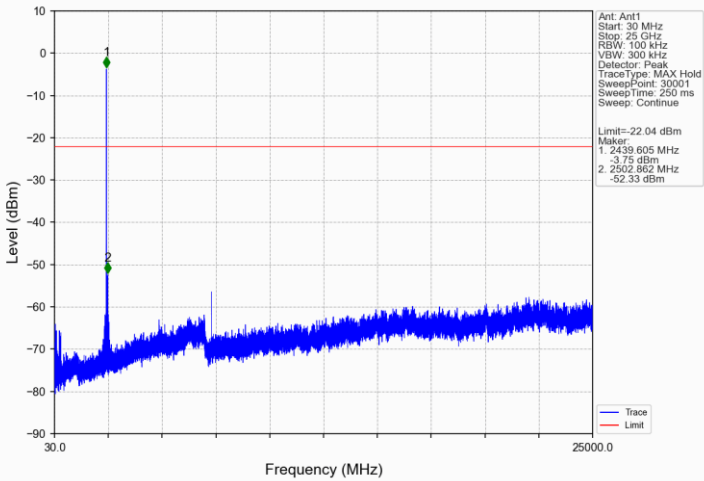
1M_HCH_2480MHz_Ant1_NTNV



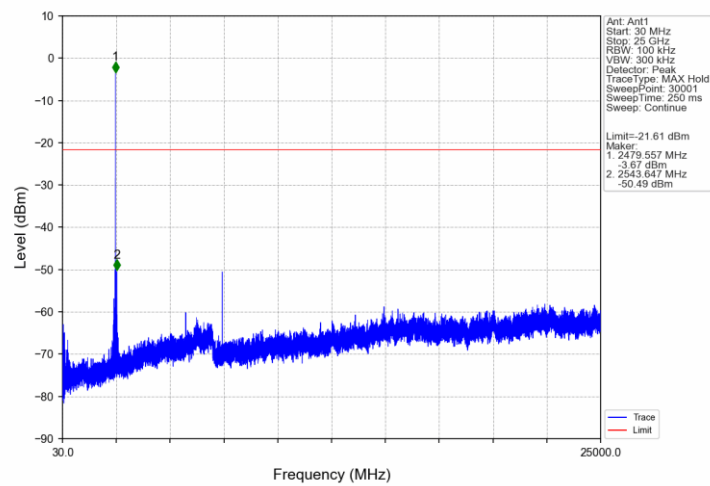
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.6 Band edge testing

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

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.

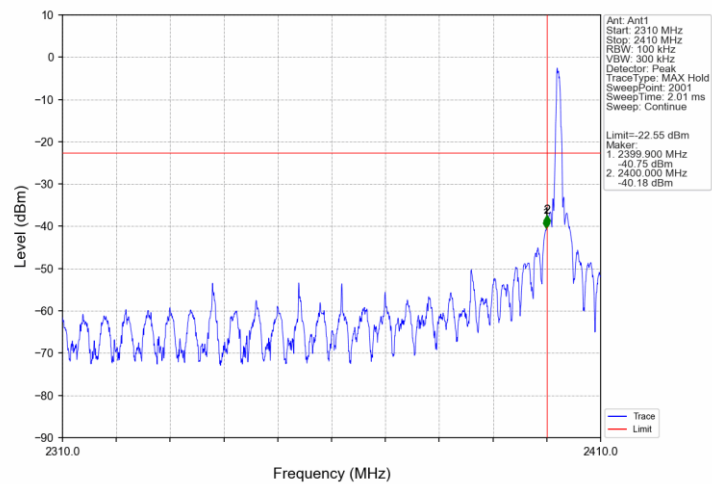
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

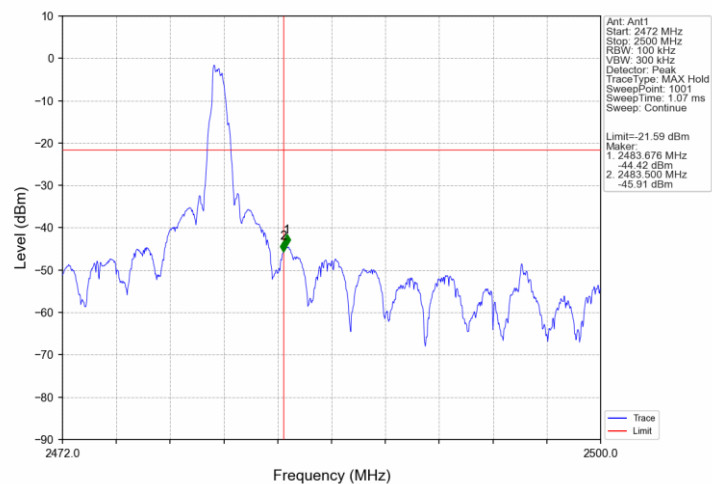
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-2.55	-22.55	Pass
		2480	1	-1.59	-21.59	Pass
2M	SISO	2402	1	-2.49	-22.49	Pass
		2480	1	-1.61	-21.61	Pass



1M_LCH_2402MHz_Ant1_NTNV

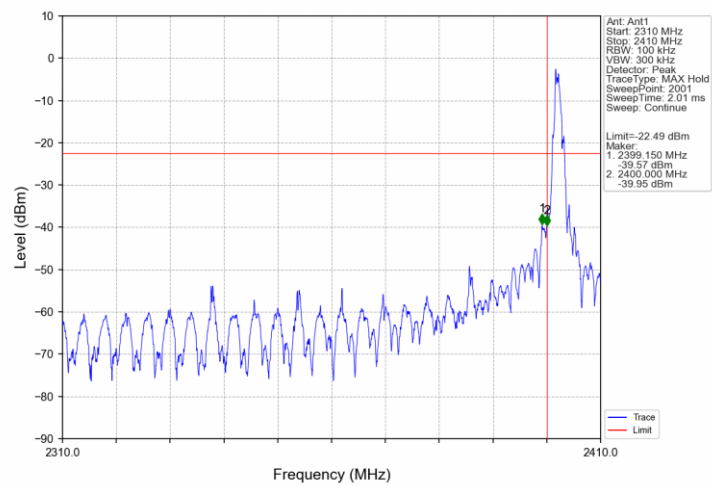


1M_HCH_2480MHz_Ant1_NTNV

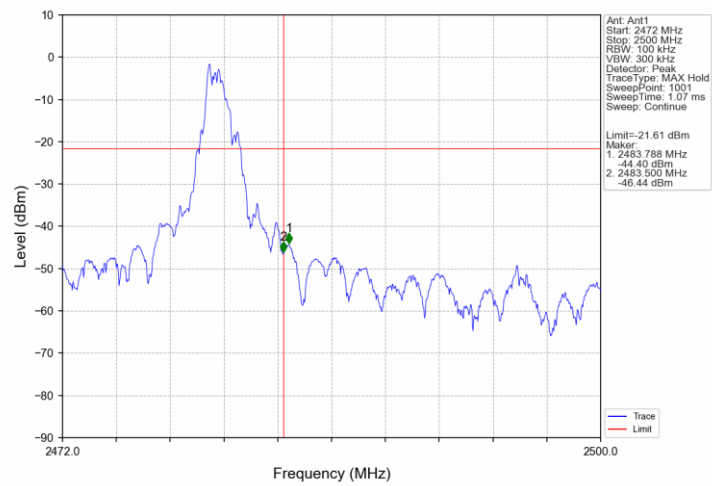




2M_LCH_2402MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.7 Spurious radiated emissions for transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna 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.
4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10:
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz to 120KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 3) Procedures for average unwanted emissions measurements above 1000 MHz
 - a) RBW = 1MHz.
 - b) VBW \ [3 × RBW].
 - c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission(AV) at frequency above 1GHz.

Limit

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. Attenuation below the general field strength 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).

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength dB $\mu\text{V/m}$	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dB $\mu\text{V/m}$)=Limit 300m(dB $\mu\text{V/m}$)+40Log(300m/3m) (Below 30MHz)

Note 2: Limit 3m(dB $\mu\text{V/m}$)=Limit 30m(dB $\mu\text{V/m}$)+40Log(30m/3m) (Below 30MHz)

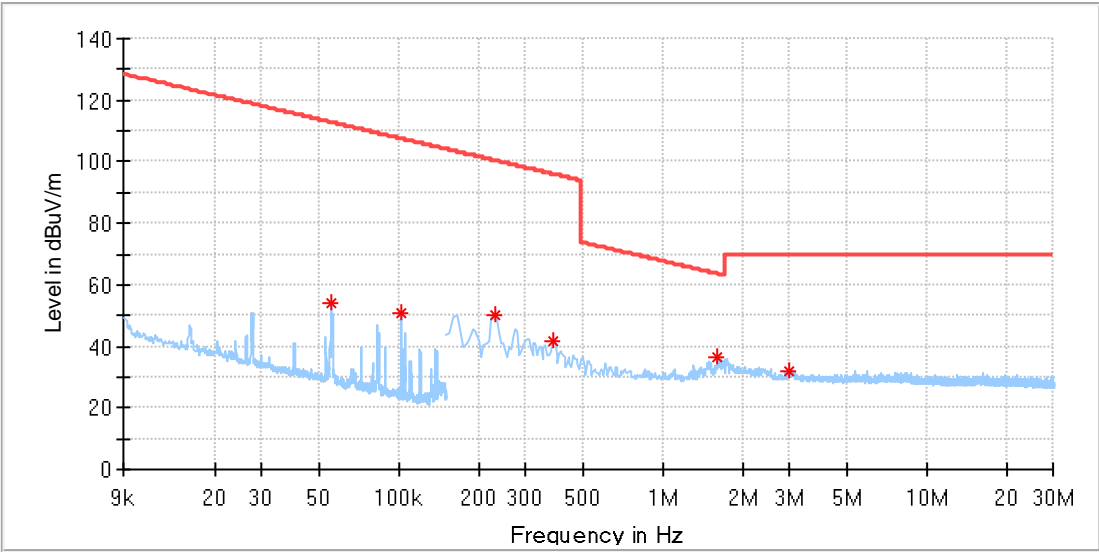
Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The test results for testing range of “9kHz to 26 GHz” showed as below is the WORST case for all Test Modes and Channels.

Transmitting spurious emission (9kHz-30MHz)

BLE_1Mbps_Low Channel: 2402MHz_Horizontal

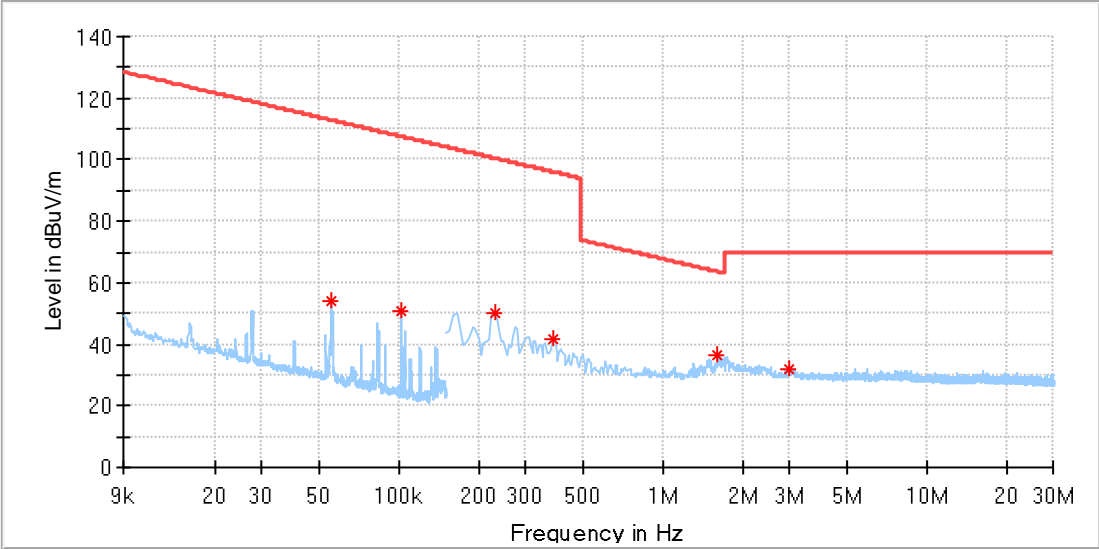


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.054966	54.06	112.79	58.73	H	90.0	19.92
0.102013	50.69	107.42	56.74	H	301.0	19.93
0.229600	49.96	100.38	50.42	H	0.0	19.88
0.383825	41.54	95.92	54.38	H	0.0	19.90
1.612650	36.38	63.48	27.10	H	1.0	20.01
2.990725	31.82	69.50	37.68	H	225.0	20.15



BLE_1Mbps_Low Channel: 2402MHz_Vertical



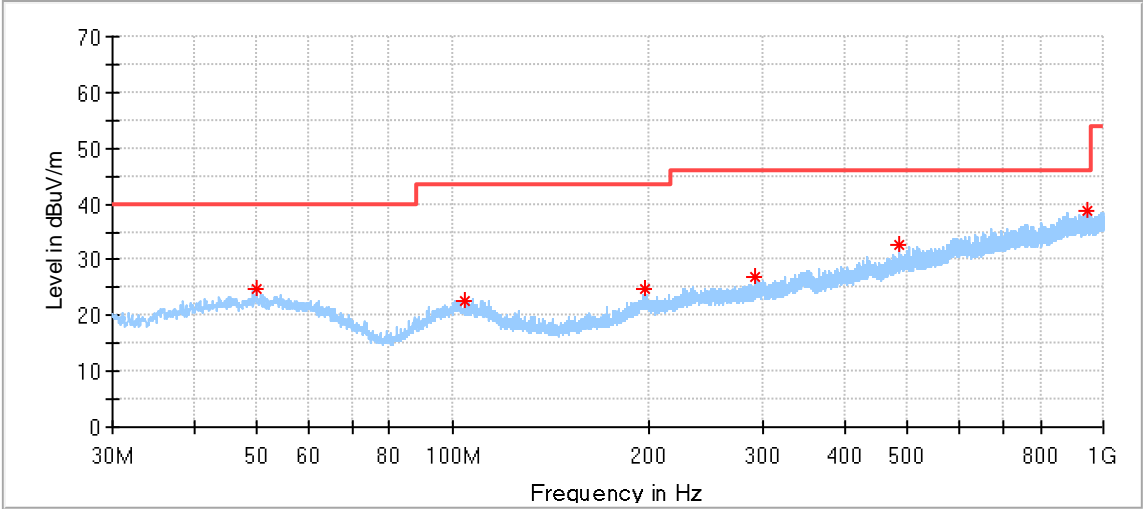
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.054966	54.06	112.79	58.73	H	90.0	19.92
0.102013	50.69	107.42	56.74	H	301.0	19.93
0.229600	49.96	100.38	50.42	H	0.0	19.88
0.383825	41.54	95.92	54.38	H	0.0	19.90
1.612650	36.38	63.48	27.10	H	1.0	20.01
2.990725	31.82	69.50	37.68	H	225.0	20.15



Transmitting spurious emission (30MHz-1GHz)

BLE_1Mbps_Low Channel: 2402MHz_Horizontal



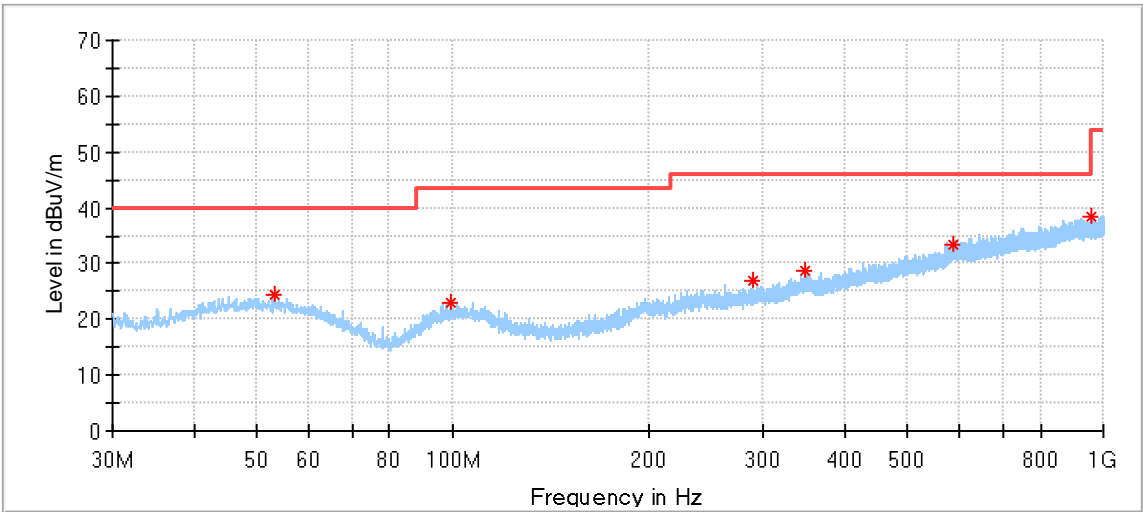
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	24.79	40.00	15.21	200.0	H	0.0	18.04
104.636111	22.46	43.50	21.04	200.0	H	229.0	16.27
197.540556	24.68	43.50	18.82	100.0	H	160.0	16.61
292.223333	26.84	46.00	19.16	200.0	H	36.0	18.44
485.684444	32.68	46.00	13.32	200.0	H	18.0	22.67
948.212778	38.83	46.00	7.17	200.0	H	294.0	28.96



Transmitting spurious emission (30MHz-1GHz)

BLE_1Mbps_Low Channel: 2402MHz_Vertical



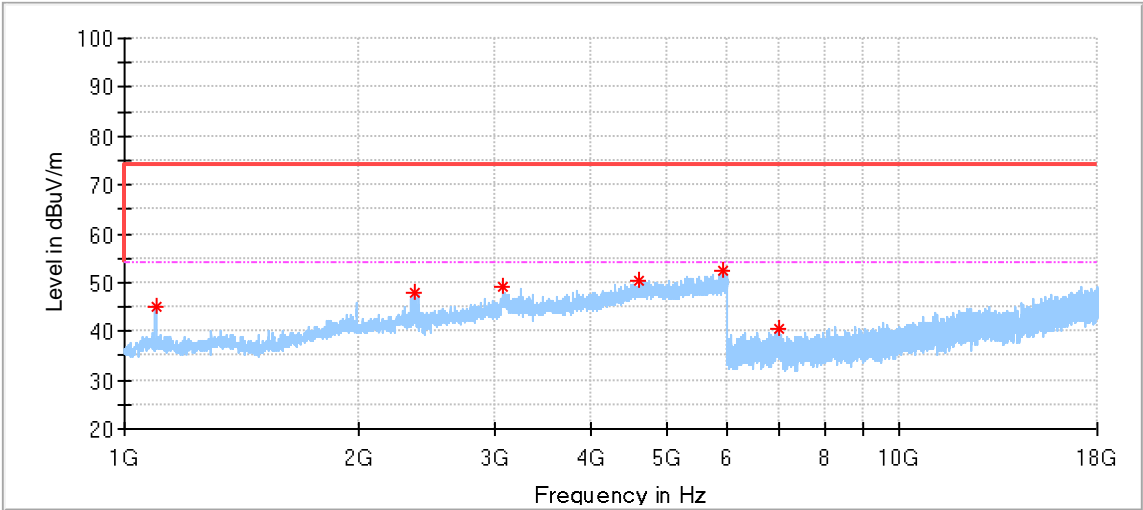
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.064444	24.44	40.00	15.56	100.0	V	0.0	17.96
99.408889	23.03	43.50	20.47	200.0	V	50.0	16.15
289.421111	26.86	46.00	19.14	200.0	V	0.0	18.42
347.836667	28.68	46.00	17.32	200.0	V	0.0	20.40
589.420556	33.49	46.00	12.51	100.0	V	4.0	24.95
955.326111	38.45	46.00	7.55	100.0	V	160.0	28.98



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_Low Channel: 2402MHz_Horizontal



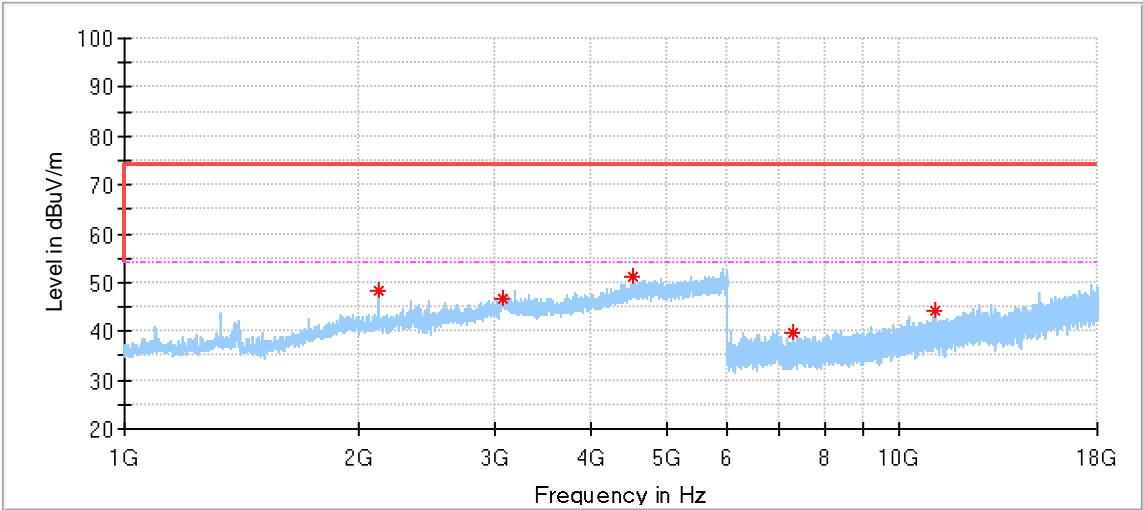
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1099.500000	44.94	74.00	29.06	150.0	H	69.0	-8.62
2362.000000	47.92	74.00	26.08	150.0	H	4.0	-1.63
3083.000000	49.25	74.00	24.75	150.0	H	351.0	2.16
4623.500000	50.23	74.00	23.77	150.0	H	249.0	5.54
5919.500000	52.25	74.00	21.75	150.0	H	0.0	7.98
7006.500000	40.64	74.00	33.36	150.0	H	223.0	8.95



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_Low Channel: 2402MHz_Vertical



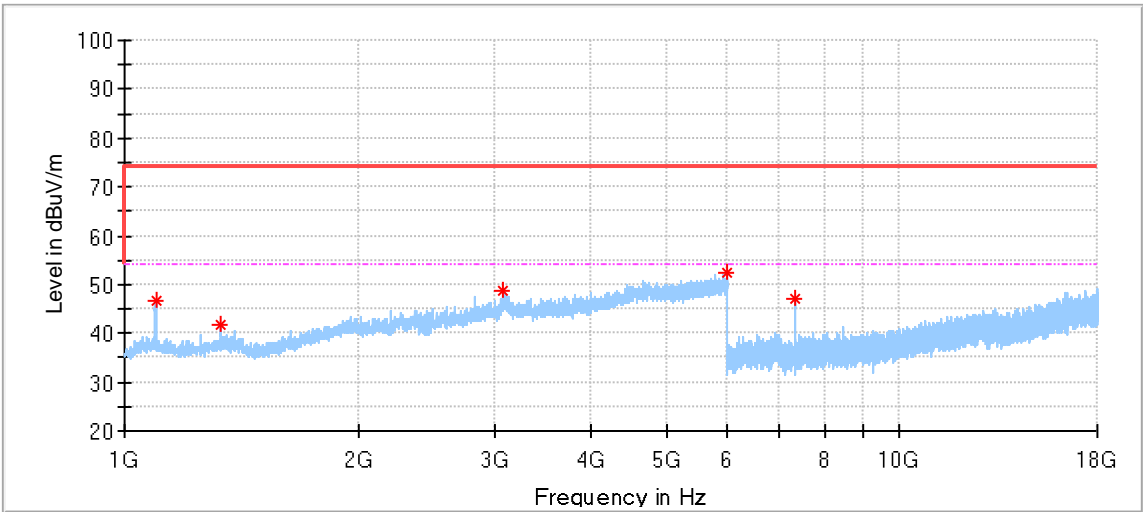
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2132.000000	48.27	74.00	25.73	150.0	V	231.0	-2.68
3068.500000	46.74	74.00	27.26	150.0	V	293.0	1.63
4529.500000	51.03	74.00	22.97	150.0	V	4.0	5.19
7270.000000	39.81	74.00	34.19	150.0	V	140.0	9.01
11116.500000	44.08	74.00	29.92	150.0	V	244.0	14.54



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_Middle Channel: 2440MHz_Horizontal



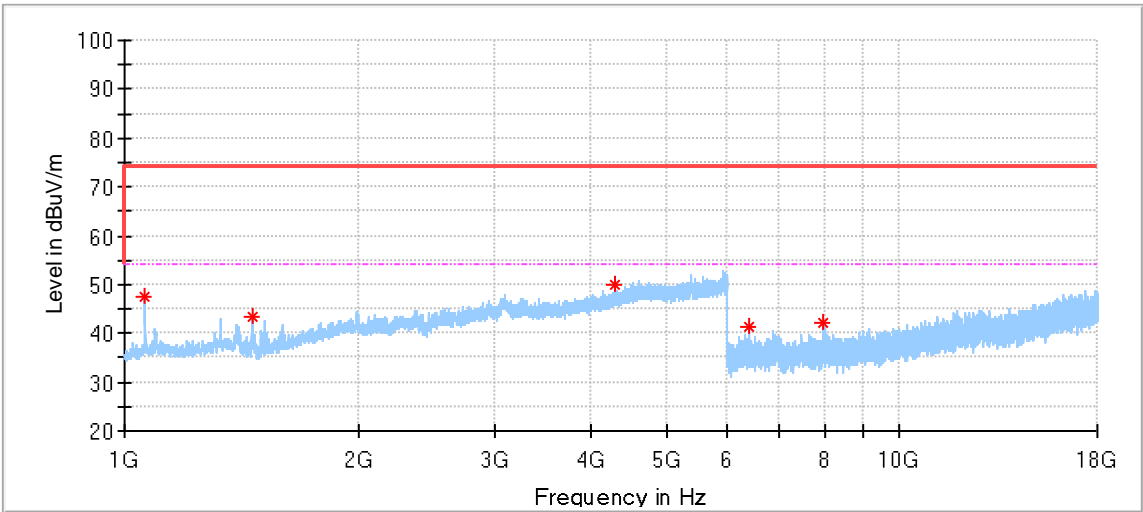
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1097.000000	46.64	74.00	27.36	150.0	H	69.0	-8.62
1333.000000	41.73	74.00	32.27	150.0	H	204.0	-6.76
3082.000000	48.75	74.00	25.25	150.0	H	327.0	2.13
5997.000000	52.23	74.00	21.77	150.0	H	121.0	8.41
7319.500000	47.28	74.00	26.72	150.0	H	181.0	9.38



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_Middle Channel: 2440MHz_Vertical



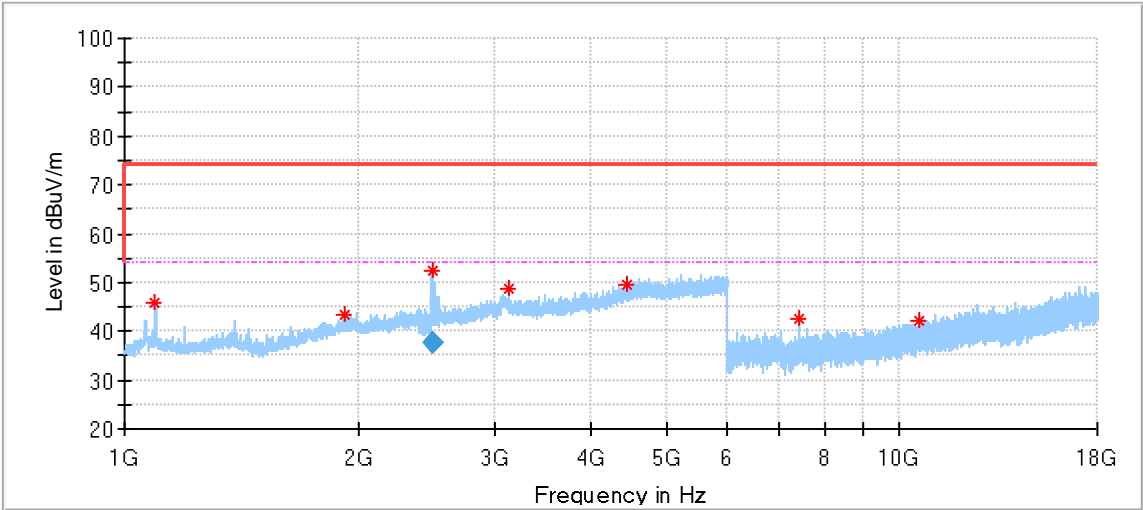
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1062.000000	47.46	74.00	26.54	150.0	V	152.0	-8.92
1459.500000	43.40	74.00	30.60	150.0	V	193.0	-8.23
4301.500000	49.80	74.00	24.20	150.0	V	47.0	3.92
6404.000000	41.17	74.00	32.83	150.0	V	223.0	8.40
7982.000000	42.05	74.00	31.95	150.0	V	160.0	10.19



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_High Channel: 2480MHz_Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1096.500000	45.92	74.00	28.08	150.0	H	70.0	-8.62
1929.000000	43.21	74.00	30.79	150.0	H	164.0	-3.13
2500.000000	52.49	74.00	21.51	150.0	H	4.0	-1.49
3131.500000	48.54	74.00	25.46	150.0	H	256.0	1.52
4449.500000	49.35	74.00	24.65	150.0	H	70.0	4.72
7441.000000	42.64	74.00	31.36	150.0	H	265.0	9.48
10600.000000	42.17	74.00	31.83	150.0	H	1.0	13.30

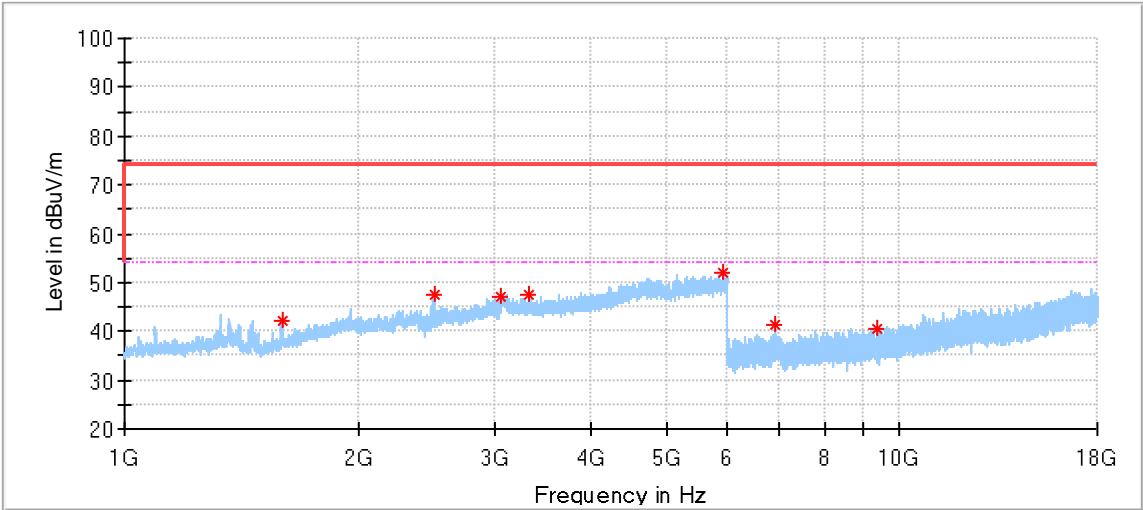
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2500.000000	37.75	54.00	16.25	150.0	H	4.0	-1.49



Transmitting spurious emission (1GHz-18GHz)

BLE_1Mbps_High Channel: 2480MHz_Vertical



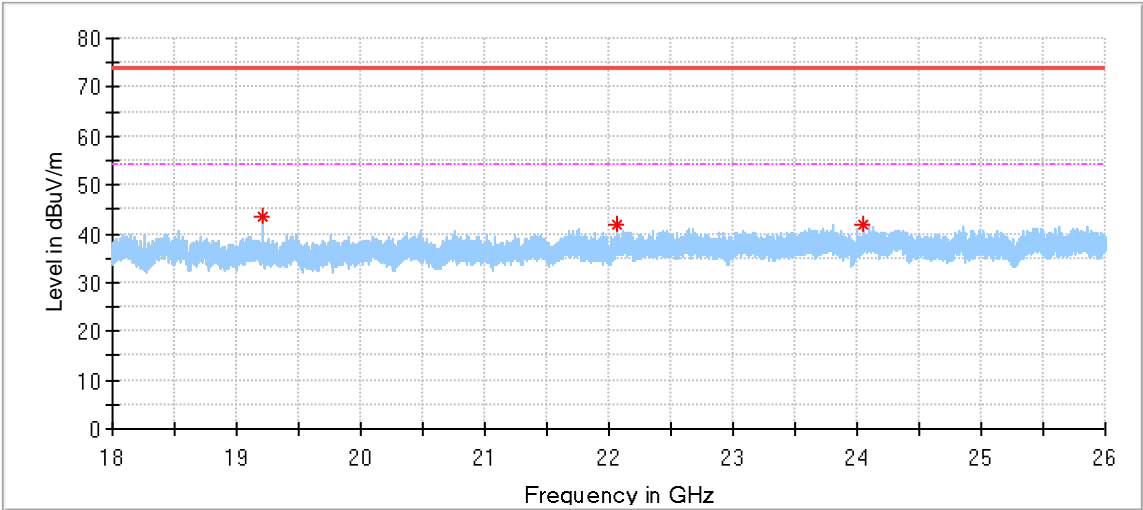
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1595.000000	41.95	74.00	32.05	150.0	V	153.0	-7.21
2511.500000	47.29	74.00	26.71	150.0	V	0.0	-1.46
3062.500000	46.95	74.00	27.05	150.0	V	0.0	1.40
3330.000000	47.37	74.00	26.63	150.0	V	81.0	1.24
5917.500000	52.19	74.00	21.81	150.0	V	184.0	7.97
6919.500000	41.24	74.00	32.76	150.0	V	265.0	9.21
9355.000000	40.65	74.00	33.35	150.0	V	286.0	12.12



Transmitting spurious emission (18GHz-26GHz)

BLE_1Mbps_Low Channel: 2402MHz_Horizontal



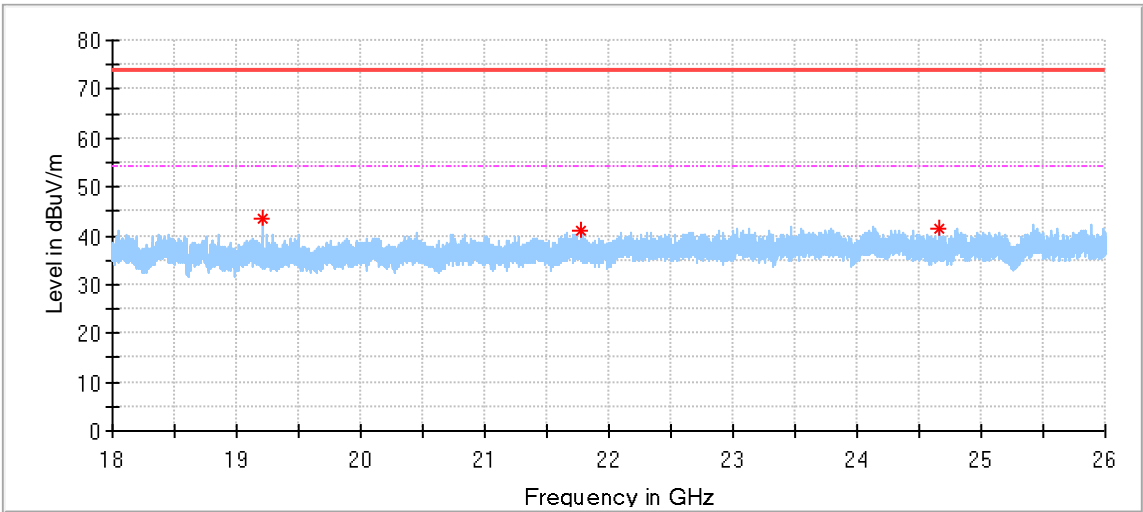
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19213.250000	43.49	74.00	30.51	150.0	H	326.0	-4.29
22063.500000	41.67	74.00	32.33	150.0	H	356.0	-1.34
24054.000000	41.81	74.00	32.19	150.0	H	42.0	-0.20



Transmitting spurious emission (18GHz-26GHz)

BLE_1Mbps_Low Channel: 2402MHz_Vertical



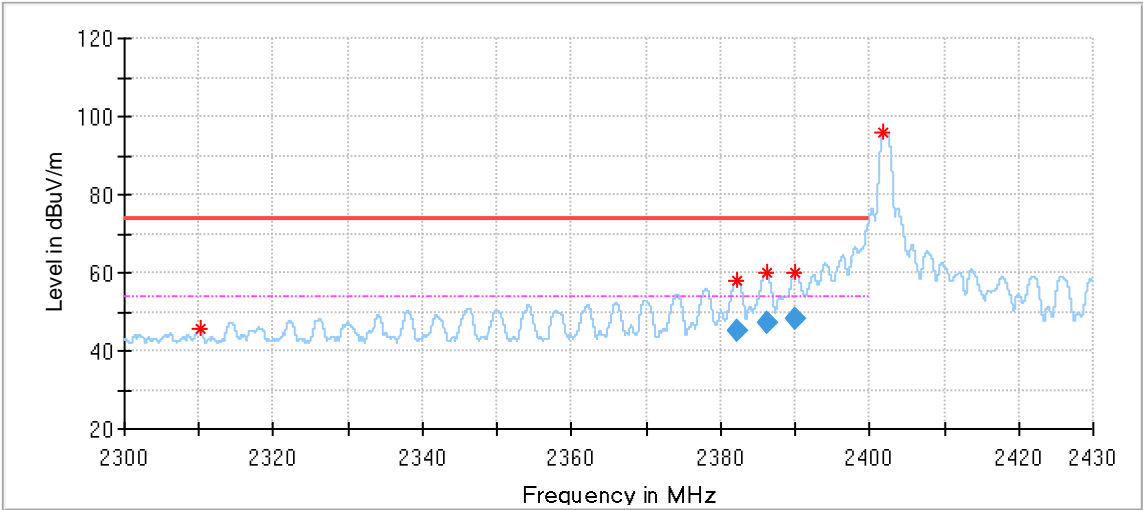
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19213.250000	43.62	74.00	30.38	150.0	V	26.0	-4.29
21770.000000	41.04	74.00	32.96	150.0	V	135.0	-1.69
24668.250000	41.63	74.00	32.37	150.0	V	219.0	-0.25



Band edge emission

BLE_1Mbps_Low Channel: 2402MHz_Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.309000	45.63	74.00	28.37	150.0	H	322.0	-2.25
2382.095000	58.09	74.00	15.91	150.0	H	46.0	-1.88
2386.151000	59.87	74.00	14.13	150.0	H	46.0	-1.81
2390.103000	60.17	74.00	13.83	150.0	H	46.0	-1.74
2401.855000	95.69	---	---	150.0	H	46.0	-1.54

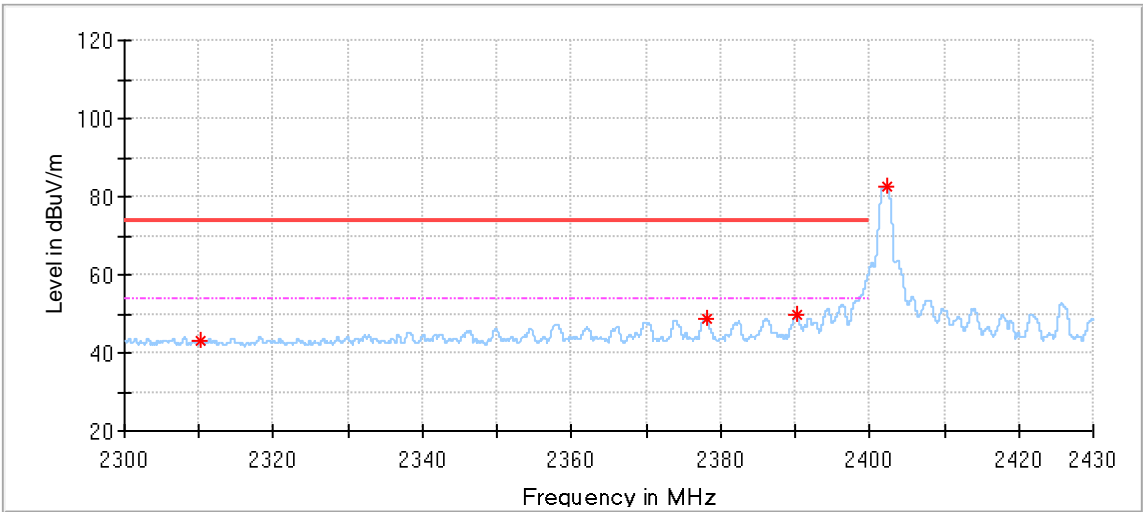
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.095000	45.21	54.00	8.79	150.0	H	46.0	-1.88
2386.151000	47.35	54.00	6.65	150.0	H	46.0	-1.81
2390.103000	48.28	54.00	5.72	150.0	H	46.0	-1.74



Band edge emission

BLE_1Mbps_Low Channel: 2402MHz_Vertical



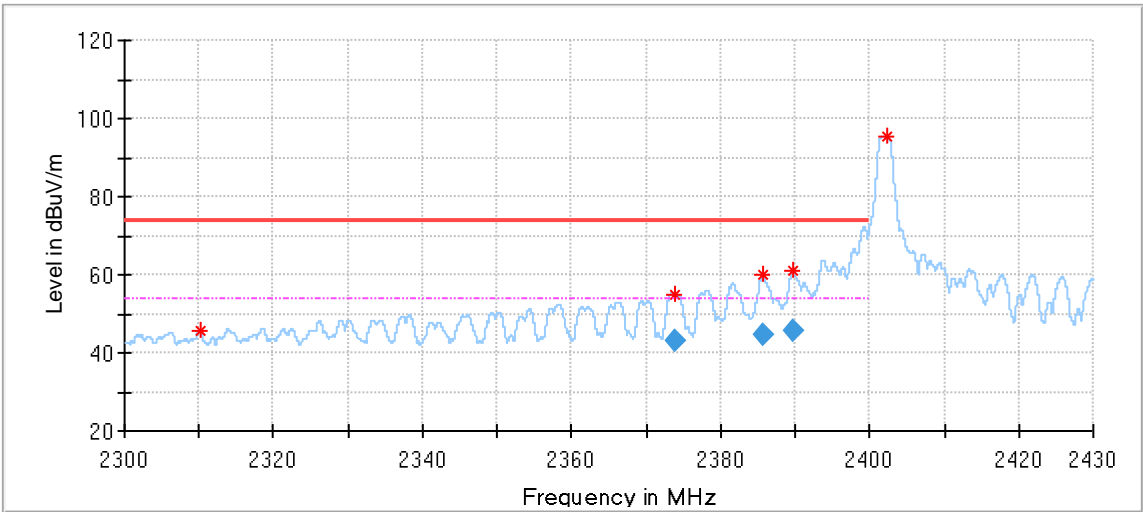
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.205000	43.13	74.00	30.87	150.0	V	78.0	-2.25
2378.143000	48.93	74.00	25.07	150.0	V	305.0	-1.95
2390.220000	49.56	74.00	24.44	150.0	V	10.0	-1.73
2402.284000	82.64	---	---	150.0	V	237.0	-1.53



Band edge emission

BLE_2Mbps_Low Channel: 2402MHz_Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.101000	45.53	74.00	28.47	150.0	H	317.0	-2.25
2373.983000	54.97	74.00	19.03	150.0	H	50.0	-2.02
2385.735000	59.85	74.00	14.16	150.0	H	50.0	-1.82
2389.791000	60.98	74.00	13.02	150.0	H	50.0	-1.74
2402.310000	95.36	---	---	150.0	H	50.0	-1.53

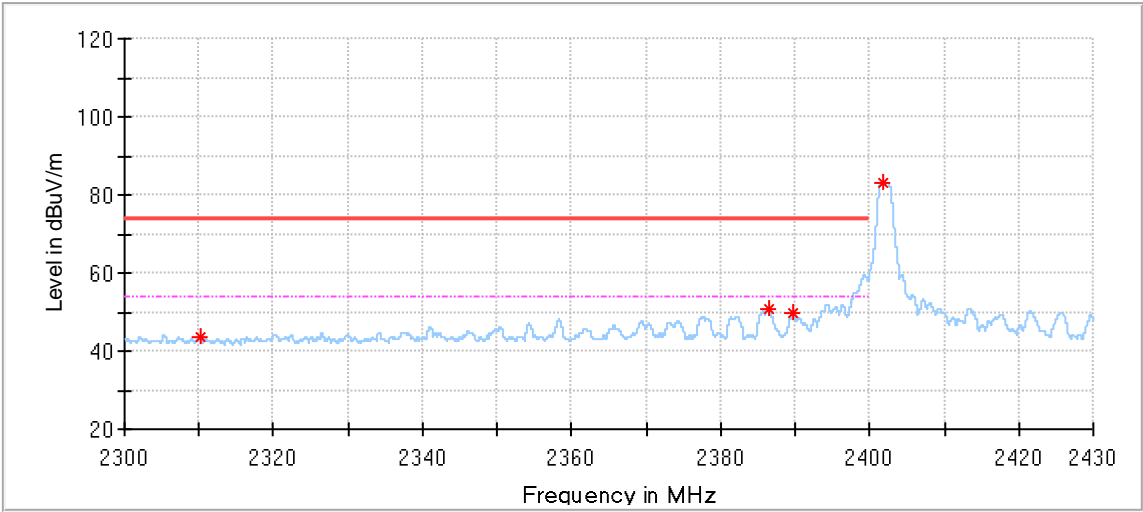
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.983000	43.14	54.00	10.86	150.0	H	50.0	-2.02
2385.735000	44.61	54.00	9.39	150.0	H	50.0	-1.82
2389.791000	45.88	54.00	8.12	150.0	H	50.0	-1.74



Band edge emission

BLE_2Mbps_Low Channel: 2402MHz_Vertical



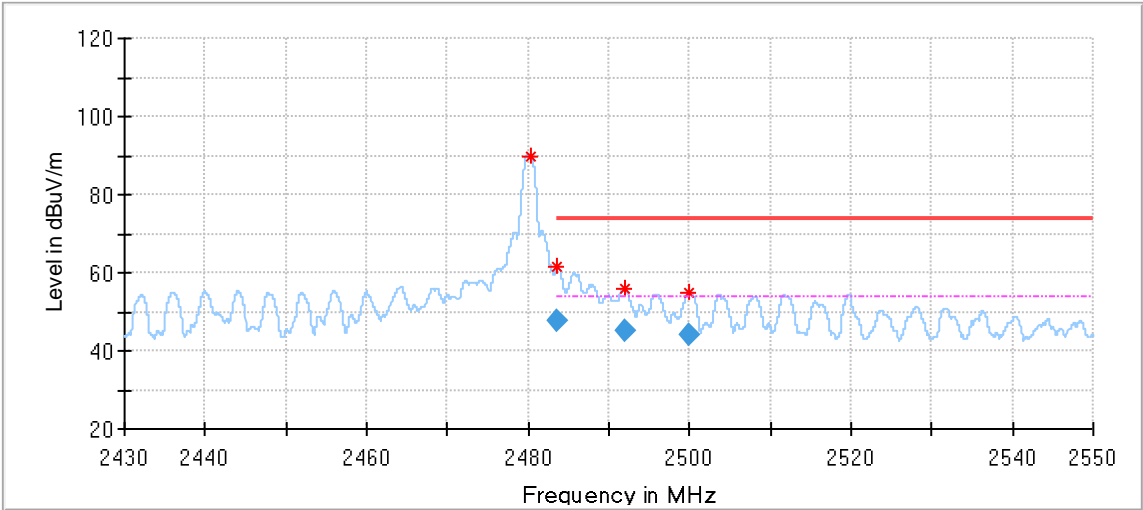
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.101000	43.63	74.00	30.37	150.0	V	359.0	-2.25
2386.372000	50.53	74.00	23.47	150.0	V	303.0	-1.80
2389.765000	49.62	74.00	24.38	150.0	V	303.0	-1.74
2401.855000	83.16	---	---	150.0	V	341.0	-1.54



Band edge emission

BLE_1Mbps_High Channel: 2480MHz_Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.208000	89.95	---	---	150.0	H	25.0	-1.80
2483.664000	61.77	74.00	12.23	150.0	H	25.0	-1.85
2491.884000	55.83	74.00	18.17	150.0	H	187.0	-1.97
2499.960000	54.95	74.00	19.05	150.0	H	25.0	-2.08

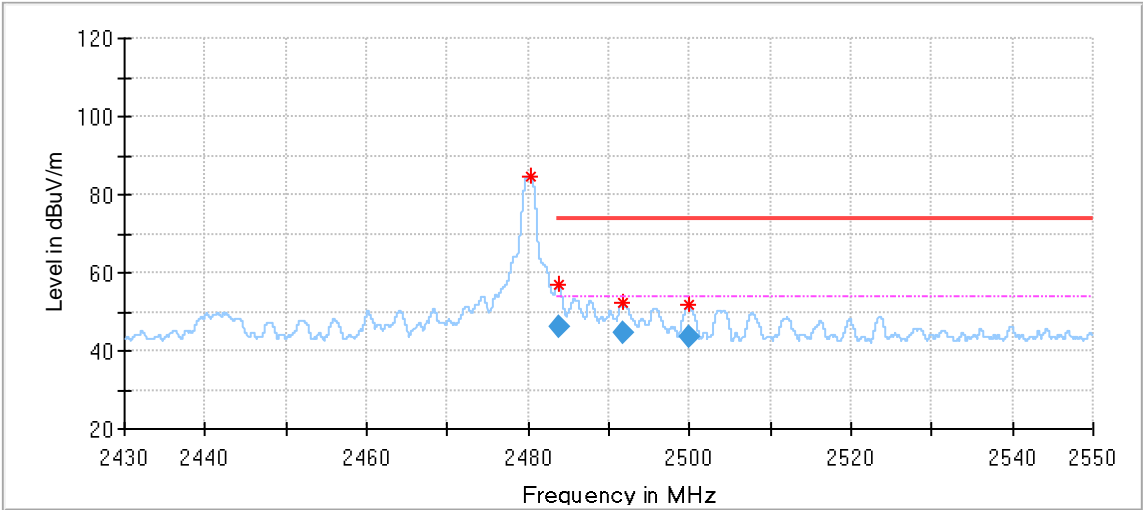
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.664000	47.67	54.00	6.33	150.0	H	25.0	-1.85
2491.884000	45.34	54.00	8.66	150.0	H	187.0	-1.97
2499.960000	44.12	54.00	9.88	150.0	H	25.0	-2.08



Band edge emission

BLE_1Mbps_High Channel: 2480MHz_Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.256000	84.62	---	---	150.0	V	251.0	-1.80
2483.712000	56.96	74.00	17.04	150.0	V	251.0	-1.85
2491.680000	52.07	74.00	21.93	150.0	V	103.0	-1.97
2499.864000	51.82	74.00	22.18	150.0	V	103.0	-2.08

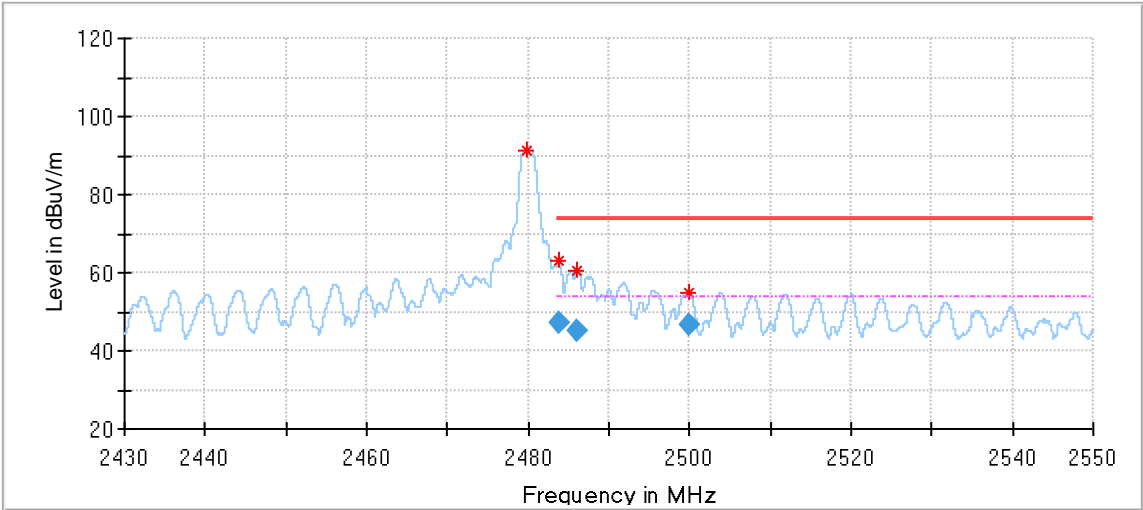
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.712000	46.17	54.00	7.83	150.0	V	251.0	-1.85
2491.680000	44.86	54.00	9.14	150.0	V	103.0	-1.97
2499.864000	43.54	54.00	10.46	150.0	V	103.0	-2.08



Band edge emission

BLE_2Mbps_High Channel: 2480MHz_Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.956000	91.26	---	---	150.0	H	51.0	-1.80
2483.724000	63.05	74.00	10.95	150.0	H	51.0	-1.85
2486.064000	60.59	74.00	13.41	150.0	H	51.0	-1.89
2499.996000	54.81	74.00	19.19	150.0	H	51.0	-2.08

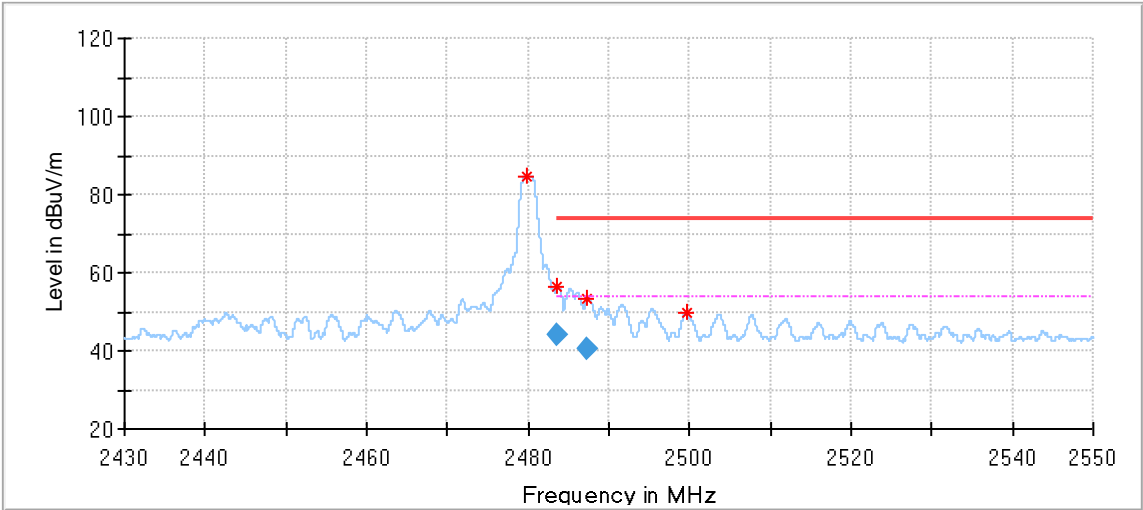
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.724000	47.10	54.00	6.90	150.0	H	51.0	-1.85
2486.064000	45.37	54.00	8.63	150.0	H	51.0	-1.89
2499.996000	46.45	54.00	7.55	150.0	H	51.0	-2.08



Band edge emission

BLE_2Mbps_High Channel: 2480MHz_Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.848000	84.60	---	---	150.0	V	96.0	-1.80
2483.640000	56.56	74.00	17.44	150.0	V	96.0	-1.85
2487.396000	53.20	74.00	20.80	150.0	V	96.0	-1.91
2499.576000	49.62	74.00	24.38	150.0	V	245.0	-2.07

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.640000	43.95	54.00	10.05	150.0	V	96.0	-1.85
2487.396000	40.32	54.00	13.68	150.0	V	96.0	-1.91

Remark:

- (1) Level= Reading Level + Correction Factor
- (2) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

Conducted Emission Test (AMN)(CSR #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2025-5-13
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2025-5-12
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2025-5-13
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2025-5-11
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15

Radiated Emission Test (9kHz-30MHz) (SAC-3 #1)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2025-5-13
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2025-7-24
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission Test (30MHz-1GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2025-2-22
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2025-5-11
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (1GHz-18GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2025-4-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2025-5-11
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2025-5-11

Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (18GHz-40GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2025-7-2
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2025-7-17
Cable	JUNFLON	MWX241	68-4-90-19-006-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

RF Conducted Test (FCC Part15 C)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2025-5-11
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2025-5-11
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A21	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A22	----	----	----
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Test software	Tonscend	JS1120-3	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.14dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.69dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.96dB; Vertical: 6.10dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.40dB; Vertical: 5.40dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	5.29dB
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.

--- END OF REPORT---