

FCC/ISED - TEST REPORT

Report Number : **6895025146201** Date of Issue: **2025-10-17**

Model/HVIN : **AS200**

Product Type : **Anker SOLIX Alternator Charger**

Applicant : **Anker Innovations Limited**

Address : **Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,**
Central and Western District, HONG KONG

Manufacturer : **Anker Innovations Limited**
Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,

Address : **Central and Western District, HONG KONG**

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 City, 518052, P. R. China
Telephone: 86 755 8828 6998
Fax: 86 755 828 5299

FCC Registration No.: 514049

FCC Designation No.: CN5009

IC Registration No.: 10320A

ISED CAB identifier: CN0077

3 Description of the Equipment Under Test

Product:	Anker SOLIX Alternator Charger
Model no.:	AS200
FCC ID:	2AOKB-AS200
IC:	23451-AS200
PMN:	Anker SOLIX Alternator Charger
HVIN:	AS200
FVIN:	V1.0.1.7
Rating:	See below label for details
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0.46dBi
S/N	N/A
Description of the EUT:	The Equipment Under Test (EUT) is a Anker SOLIX Alternator Charger supports Bluetooth Low Energy / Wi-Fi functions
Remark:	1)This report is only for Bluetooth Low Energy.
Label:	

Anker SOLIX Alternator Charger
Model: AS200
Vehicle Battery Port Input (Charging Mode):
12/24V=80A Max
Power Station Port Output (Charging Mode):
12-60V=25A Max, 800W Max
Power Station Port Input (Reverse Charging Mode):
40-60V=21A Max
Vehicle Battery Port Output (Reverse Charging Mode):
11-28.8V=70A Max, 800W Max
FCC ID: 2AOKB-AS200 IC: 23451-AS200
Manufacturer: Anker Innovations Limited
Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,
Hong Kong Made in China

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION To prevent fire, do not cover or obstruct ventilation openings. Do not mount in zero-clearance compartment. Overheating may result.

ATTENTION Pour éviter tout risque d'incendie, ne couvrez pas et ne bloquez pas les ouvertures de ventilation. L'installation dans un espace sans dégagement, cela pourrait provoquer une surchauffe.

CAUTION Charge only lead-acid or lithium iron phosphate rechargeable batteries. Other types of batteries may burst causing personal injury and damage.

ATTENTION Chargez uniquement des batteries rechargeables au plomb-acide ou au lithium-fer-phosphate. D'autres types de batteries pourraient exploser, entraînant des blessures ou des dommages.

CAUTION To Reduce the Risk of Fire, Use only battery packs that include the battery management system and all necessary protection for the battery pack integral to the pack.

ATTENTION Pour réduire le risque d'incendie, utilisez uniquement des blocs-batteries qui intègrent un système de gestion de la batterie (BMS) ainsi que toutes les protections nécessaires incluses dans le bloc.

WARNING Disconnect the supply before making or breaking the connections to the battery. Débranchez l'alimentation avant de connecter ou de déconnecter la batterie.

ATTENTION Explosive gases. Prevent flames and sparks. Provide adequate ventilation during charging. Before charging, read the instructions. Gaz explosifs. Évitez toute flamme ou étincelle. Assurez une ventilation adéquate pendant la charge. Lisez les instructions avant de procéder à la charge.

217-252619

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CED-CN@anker.com info@support.anker.com

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(UK) +44 (0) 1616 056 301 (DE) +49 (800) 000 2522
(日本) +81 03 4455 7823

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5 April 2018 Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE- LAN) Devices

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/ RSS-247 Issue 3/RSS-Gen Issue 5			
Test Condition		Test Site	Test Result
§15.207 & RSS-GEN 8.8	Conducted emission AC power port*	N/A	N/A
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	Site 1	Pass
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Site 1	Pass
§15.247(a)(2) & RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	Pass
§15.247(e) & RSS-247 5.2(b)	Power spectral density	Site 1	Pass
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	Site 1	Pass
§15.247(d) & RSS-247 5.5	Band edge	Site 1	Pass
§15.247(d) & §15.209 & §15.205 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	Pass
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	Pass

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an Internal PCB Antenna, which gain is 0.46dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

Note***: The EUT is powered by DC power source, So it is not applicable.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AOKB-AS200, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

This submittal(s) (test report) is intended for IC: 23451-AS200, complies with RSS-247, RSS-GEN.

The Model: AS200 supports Bluetooth Low Energy/Wi-Fi functions, power by 24VDC.
The TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHz Wi-Fi.

This report is for the Bluetooth Low Energy part.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - Not Performed

The Equipment under Test

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

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

Sample Received Date: 2025-08-15

Testing Start Date: 2025-08-20

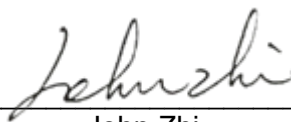
Testing End Date: 2025-08-28

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

Reviewed by:

Prepared by:

Tested by:



John Zhi
Project Manager



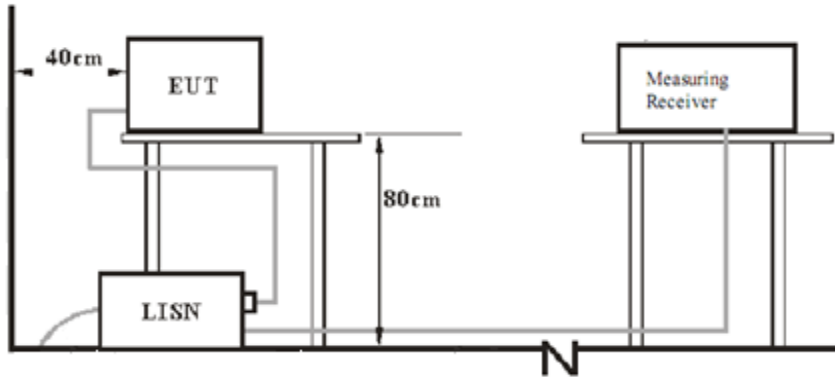
Grace Gao
Project Engineer



Carry Cai
Test Engineer

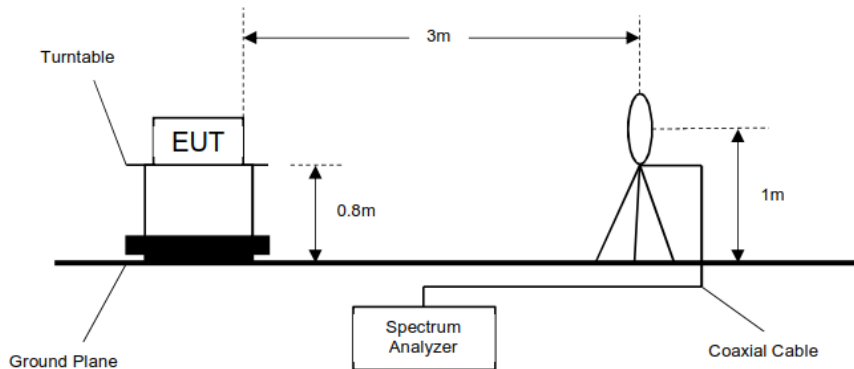
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

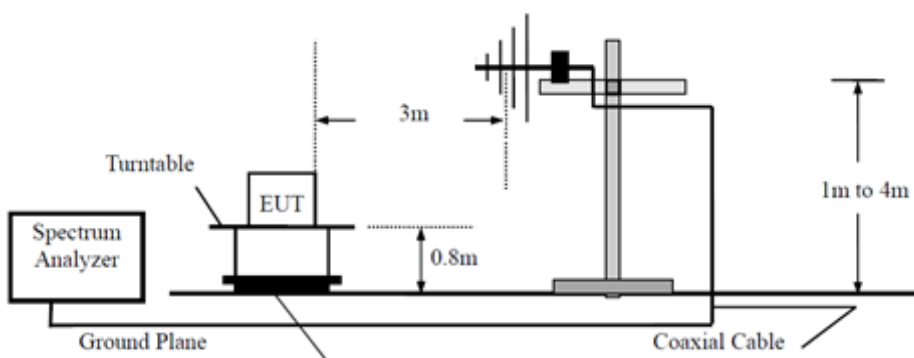


7.2 Radiated test setups

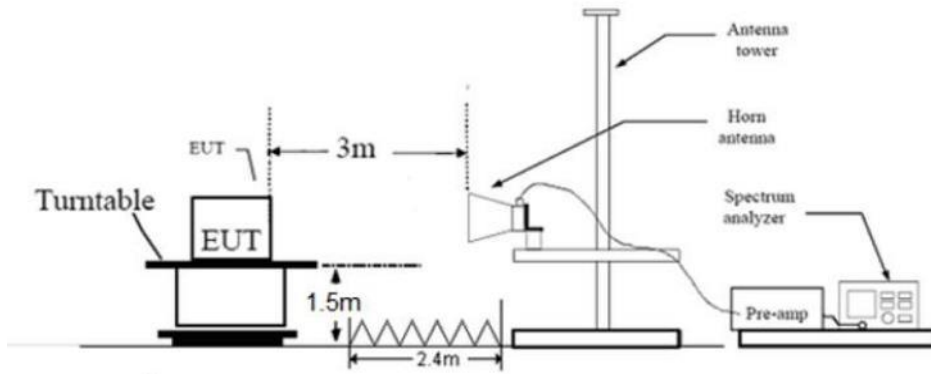
9KHz - 30MHz



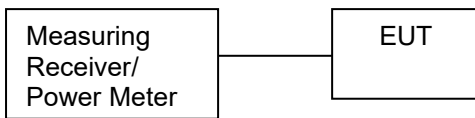
30MHz - 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Laptop	HP Inc	HP ProBook 445 G10	/

Test software information:

Test Software Version	EspRFTTestTool_v3.6	
Frequency	Modulation	Setting TX Power
2402-2480MHz	GFSK	9

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

9 Technical Requirement

9.1 Conducted Output Power & EIRP

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.

Limits

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted output power limit as below:

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

According to & RSS-247 5.4(d), EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 4	≤ 36

Conducted Output Power & EIRP

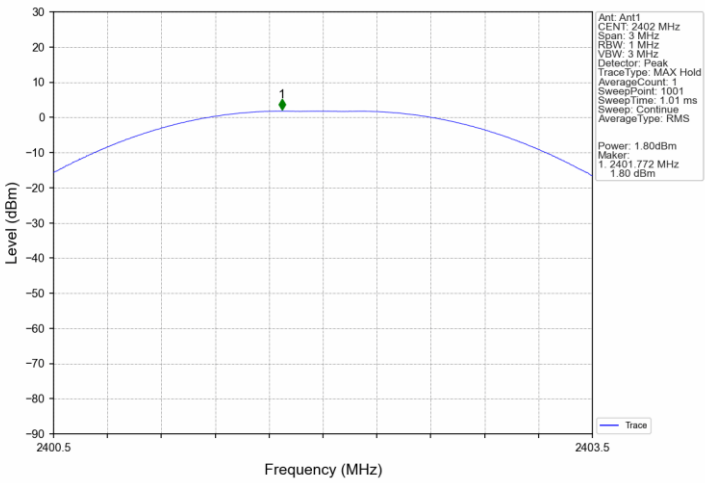
Mode	TX Type	Frequency (MHz)	Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.80	<=30	Pass
		2440	2.38	<=30	Pass
		2480	2.13	<=30	Pass
2M	SISO	2402	1.81	<=30	Pass
		2440	2.29	<=30	Pass
		2480	2.10	<=30	Pass

Mode	TX Type	Frequency (MHz)	EIRP (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.26	<=36	Pass
		2440	2.84	<=36	Pass
		2480	2.59	<=36	Pass
2M	SISO	2402	2.27	<=36	Pass
		2440	2.75	<=36	Pass
		2480	2.56	<=36	Pass

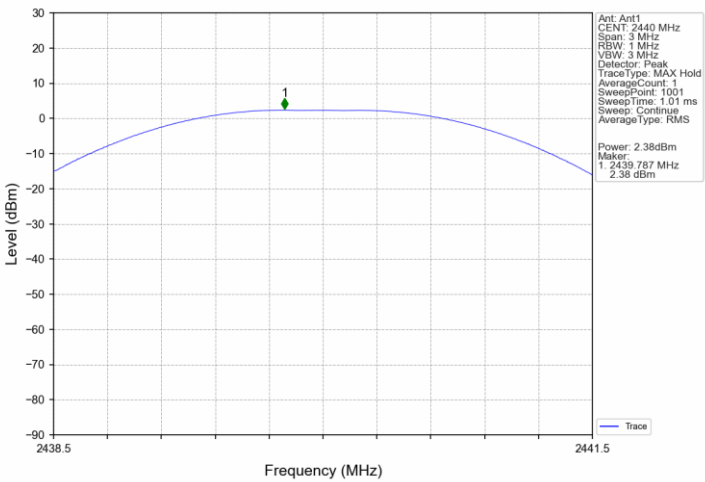
Note1: Antenna Gain: Ant1: 0.46dB



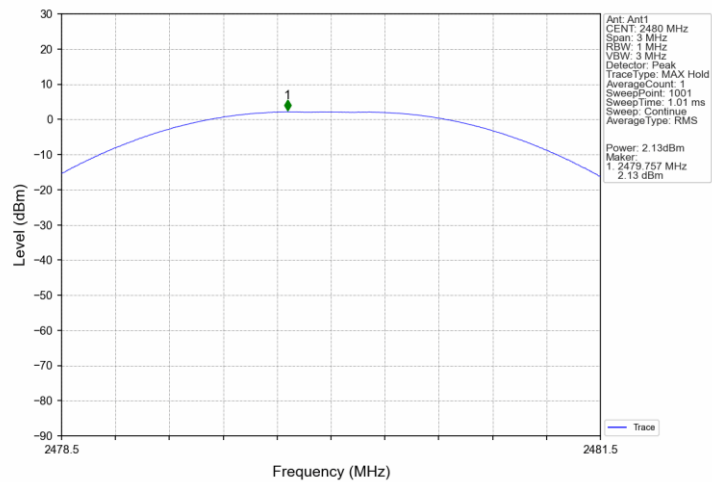
1M_LCH_2402MHz_Ant1_NTNV



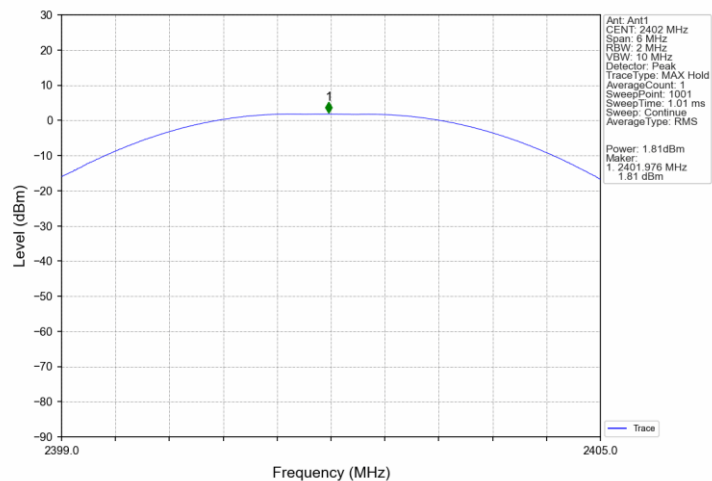
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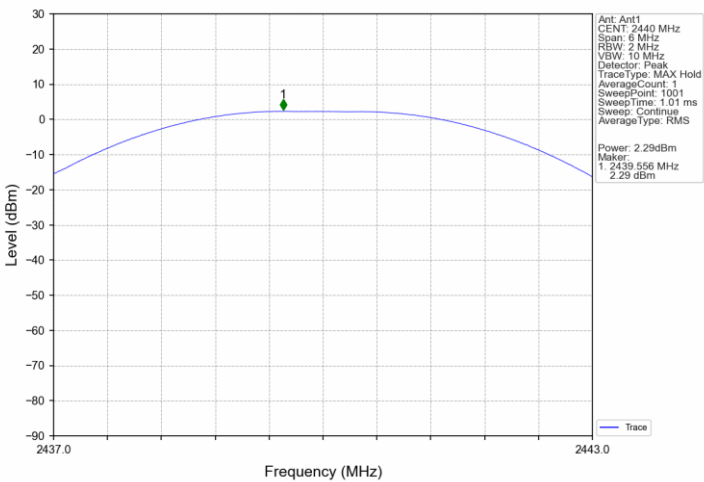
1M_HCH_2480MHz_Ant1_NTNV



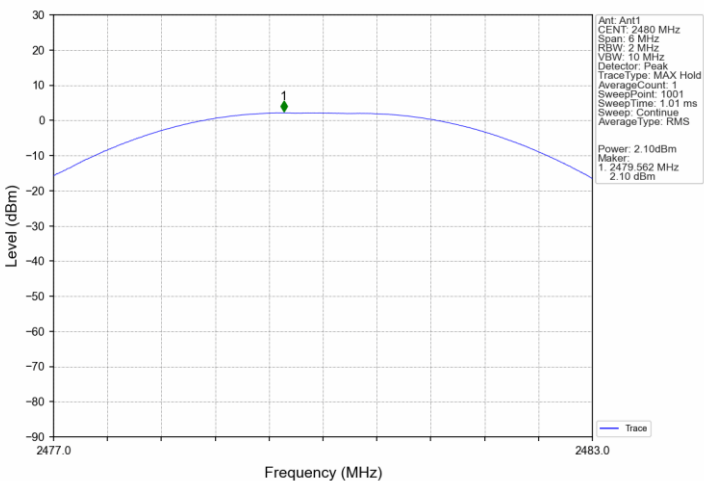
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.2 Power Spectral Density

Test Method

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≥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 result

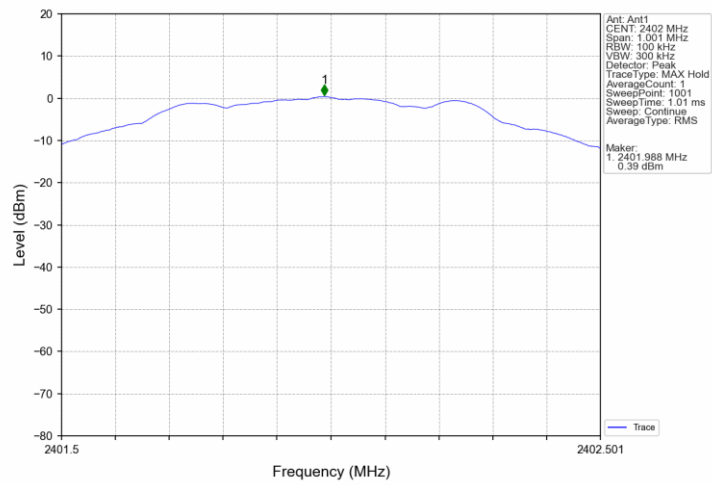
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/1kHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	ANT1	Limit	
1M	SISO	2402	0.39	5.16	≤8	Pass
		2440	0.96	5.73	≤8	Pass
		2480	0.72	5.49	≤8	Pass
2M	SISO	2402	-1.56	3.21	≤8	Pass
		2440	-1.12	3.65	≤8	Pass
		2480	-1.31	3.46	≤8	Pass

Note1: Antenna Gain: Ant1: 0.46dBi

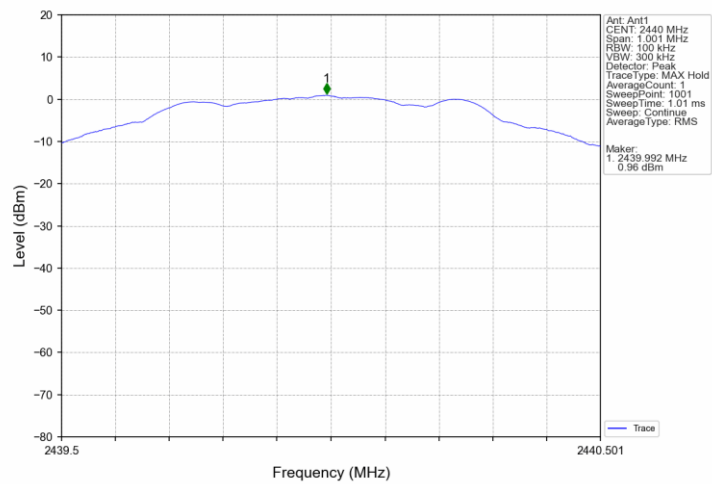
Note2:

Maximum PSD (dBm/3kHz) = Maximum PSD (dBm/1kHz) + 10log (3/1)= Maximum PSD (dBm/1kHz)+4.77

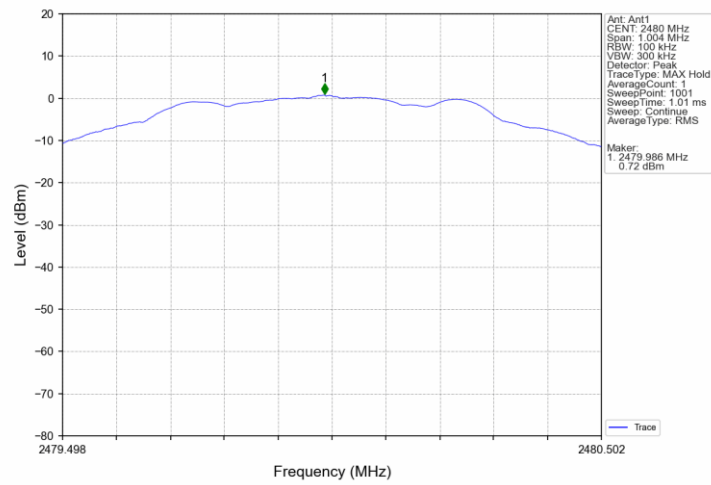
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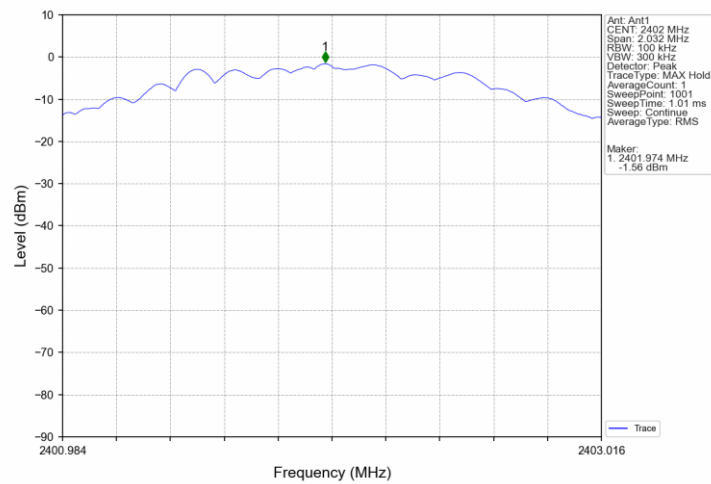
1M_MCH_2440MHz_Ant1_NTNV



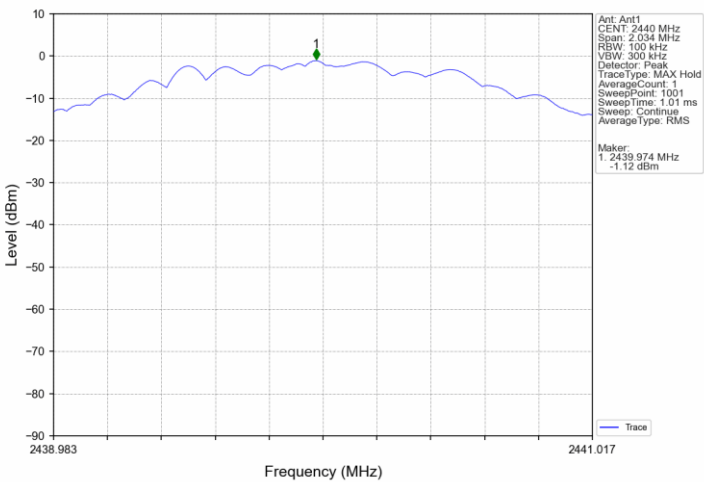
1M_HCH_2480MHz_Ant1_NTNV



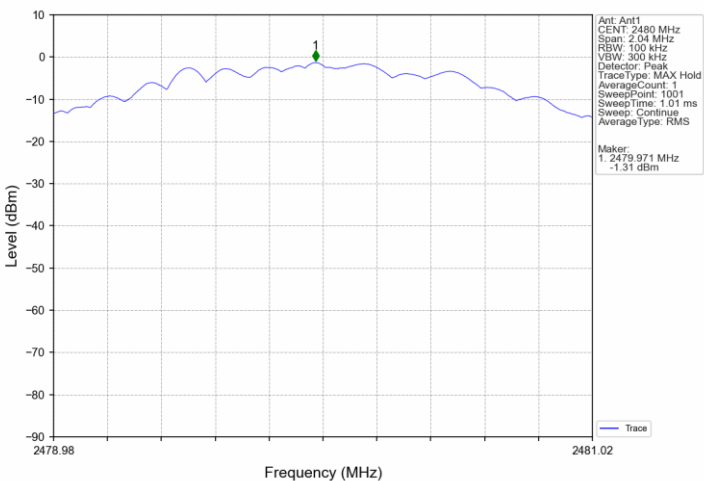
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.3 6 dB Bandwidth and 99% Occupied 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 $\geq$ 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

Limit [kHz]

≥ 500

Test Method for 99 % Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW. Set RBW = 1 % to 5 % of the OBW
Set VBW $\geq$ 3 RBW Trace mode = max hold. Sweep = auto couple.
Allow the trace to stabilize.
3. Use the 99 % power bandwidth function of the instrument.
4. Record the results in the test report.

Limit

Limit [kHz]

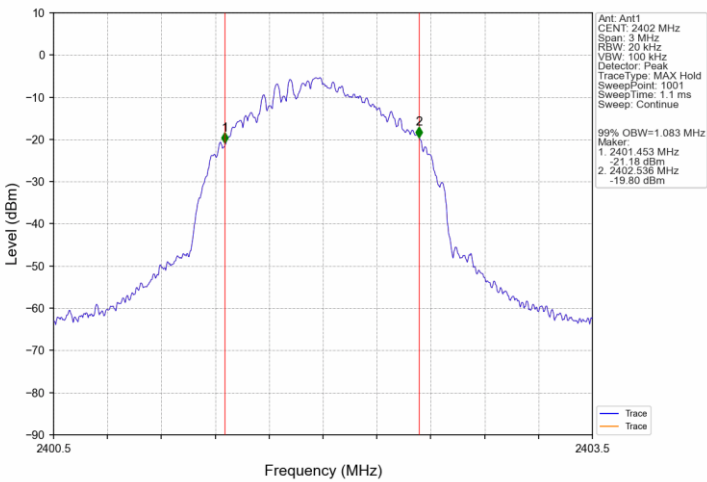
Test result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.083	/	Pass
		2440	1	1.083	/	Pass
		2480	1	1.083	/	Pass
2M	SISO	2402	1	2.121	/	Pass
		2440	1	2.120	/	Pass
		2480	1	2.120	/	Pass

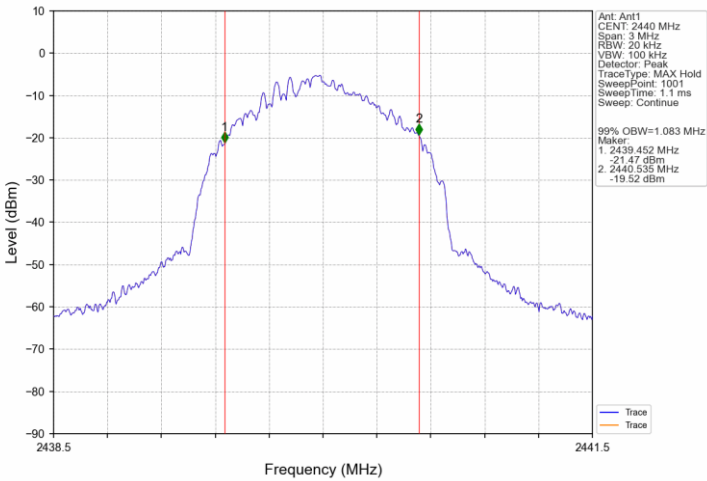
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.669	≥ 0.5	Pass
		2440	1	0.669	≥ 0.5	Pass
		2480	1	0.667	≥ 0.5	Pass
2M	SISO	2402	1	1.360	≥ 0.5	Pass
		2440	1	1.354	≥ 0.5	Pass
		2480	1	1.352	≥ 0.5	Pass

99% Bandwidth

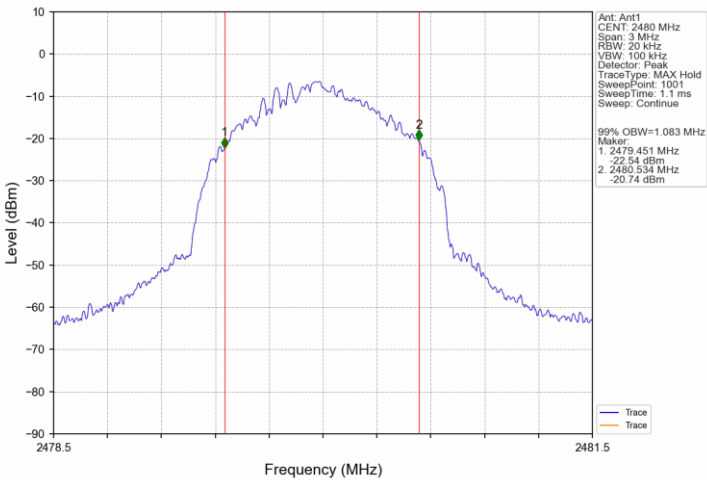
1M_LCH_2402MHz_Ant1_NTNV



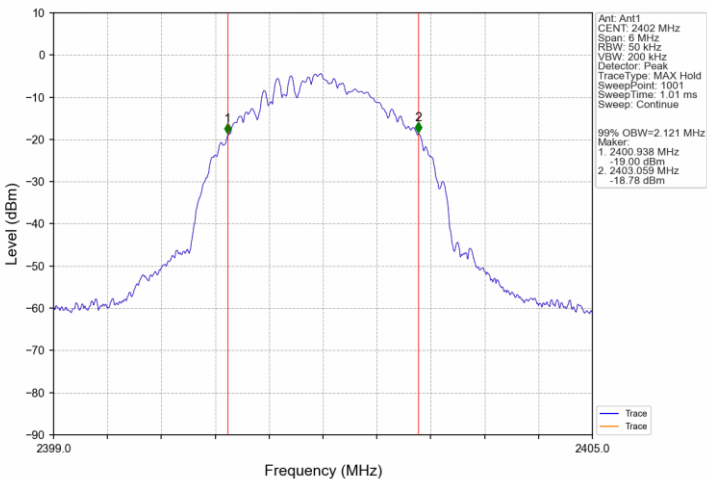
1M_MCH_2440MHz_Ant1_NTNV



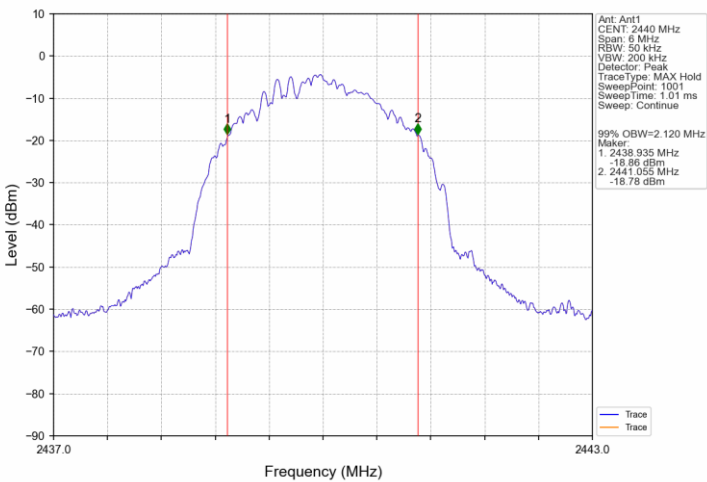
1M_HCH_2480MHz_Ant1_NTNV



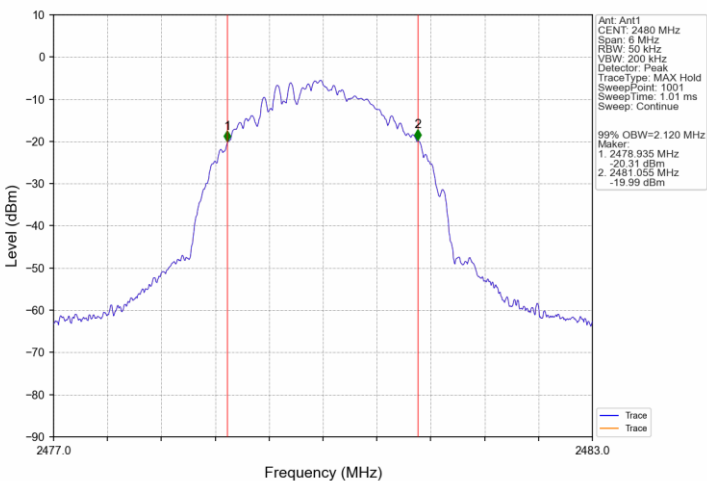
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

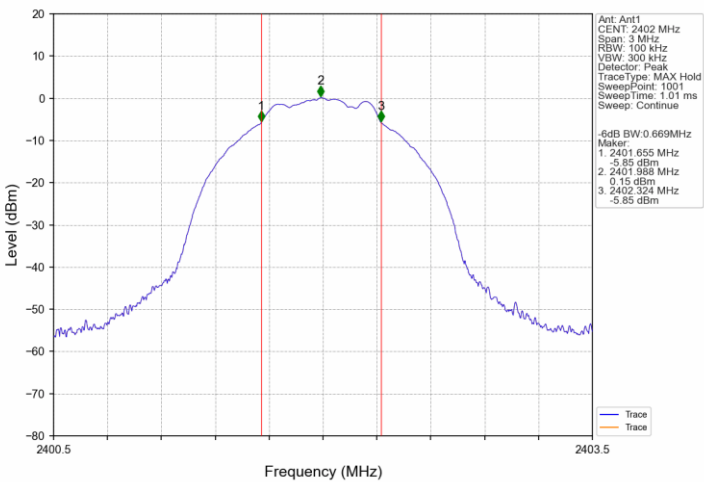


2M_HCH_2480MHz_Ant1_NTNV

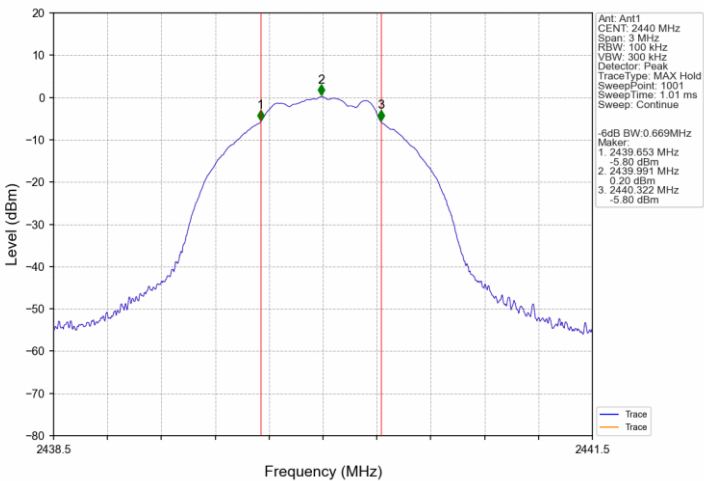


6dB Bandwidth

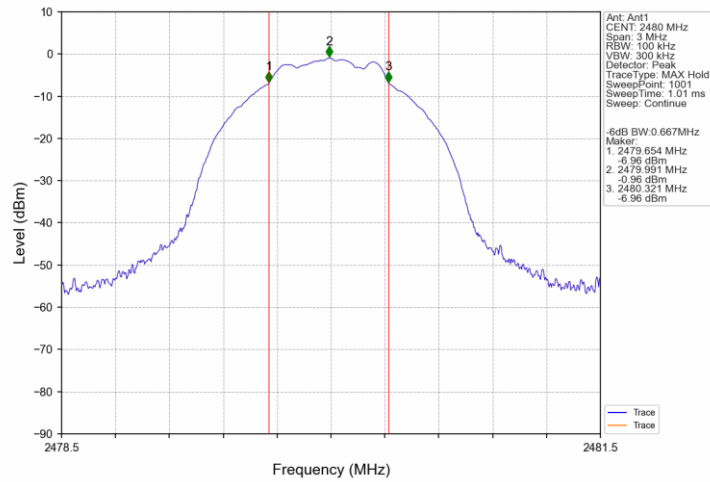
1M_LCH_2402MHz_Ant1_NTNV



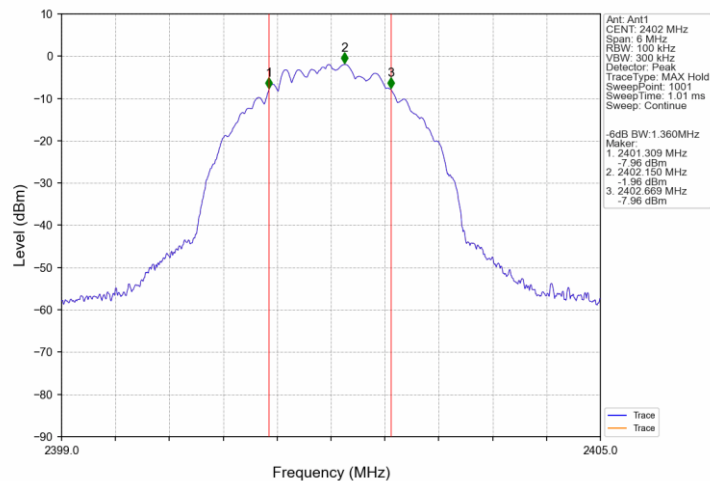
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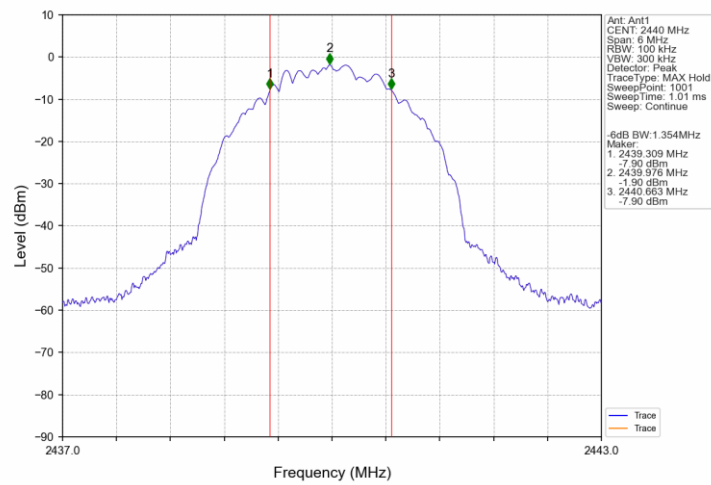
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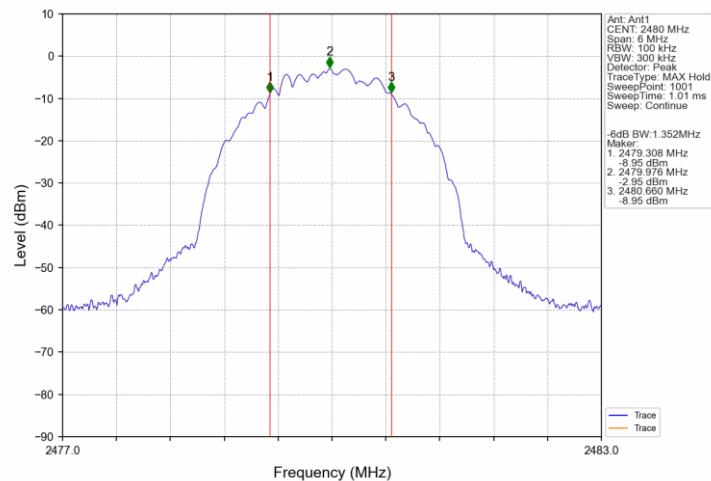
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.4 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

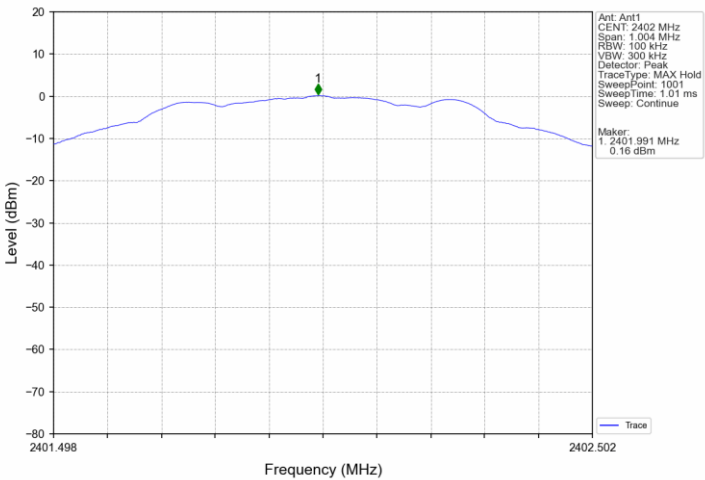
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

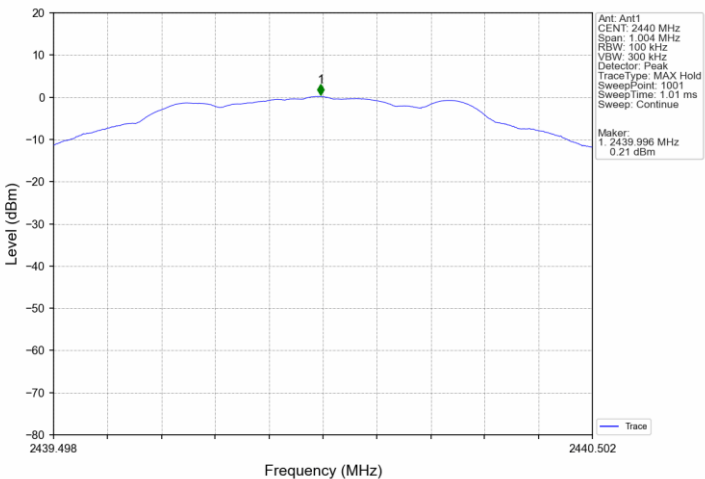
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.16	-24.71	Pass
		2440	1	0.21	-24.34	Pass
		2480	1	-0.91	-24.46	Pass
2M	SISO	2402	1	-1.97	-24.55	Pass
		2440	1	-1.87	-24.18	Pass
		2480	1	-2.99	-24.27	Pass

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.

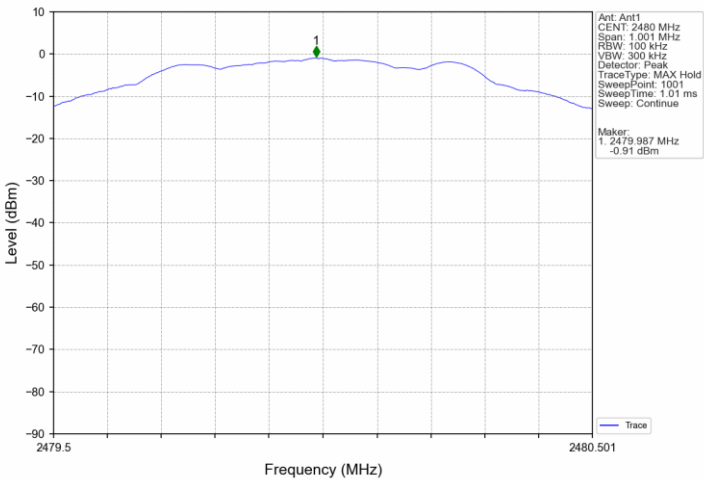
1M LCH 2402MHz Ant1 NTNV



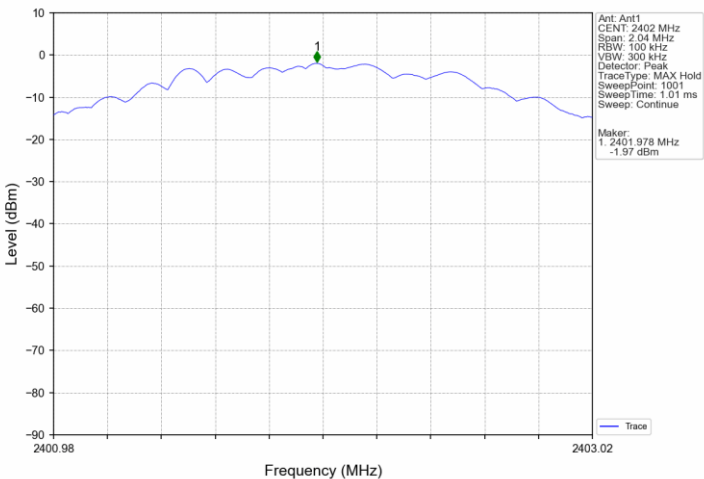
1M MCH 2440MHz Ant1 NTNV



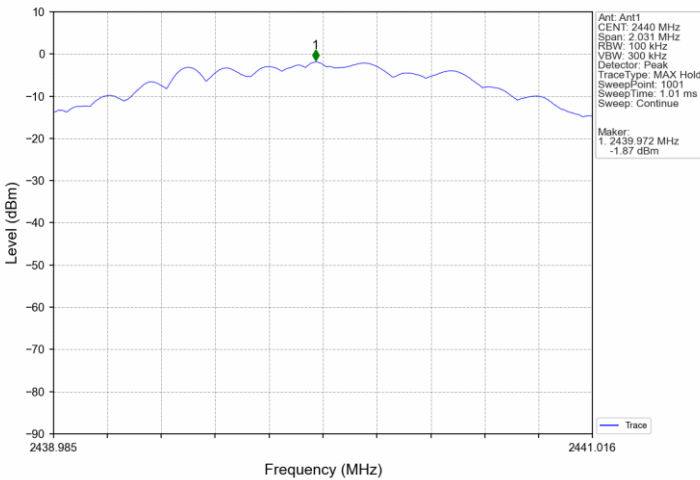
1M HCH 2480MHz Ant1 NTNV



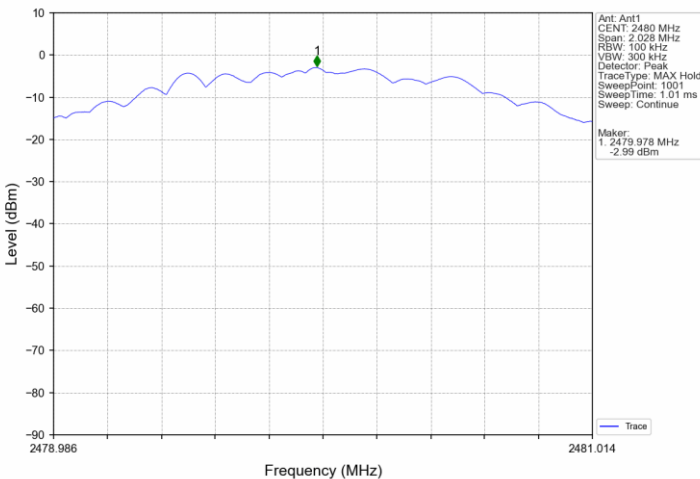
2M LCH 2402MHz Ant1 NTNV



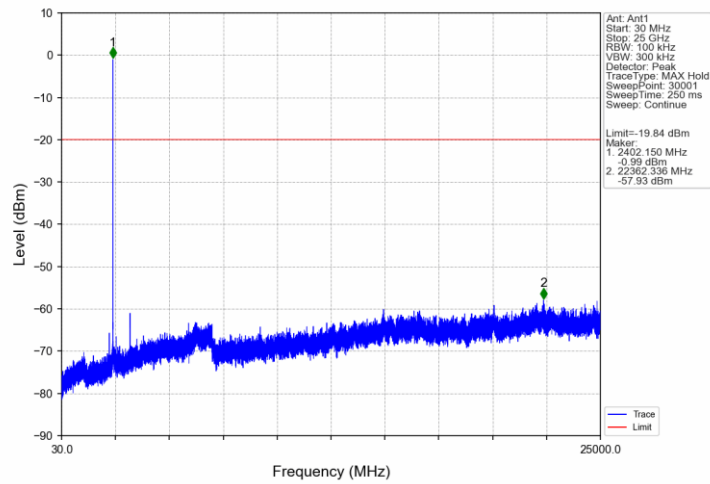
2M MCH 2440MHz Ant1 NTN



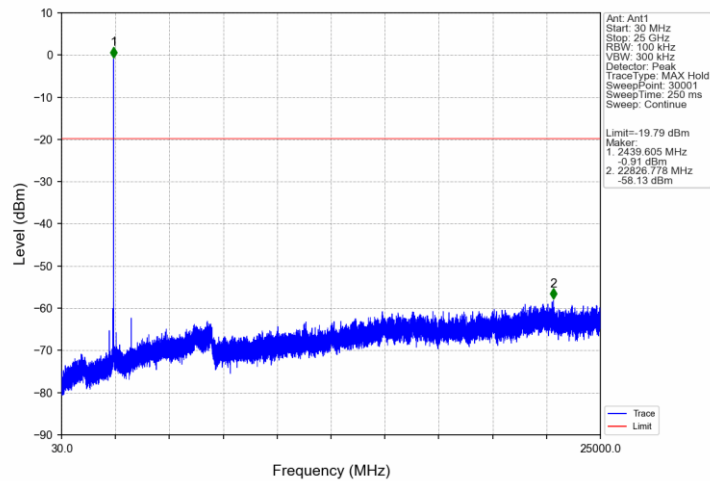
2M HCH 2480MHz Ant1 NTN



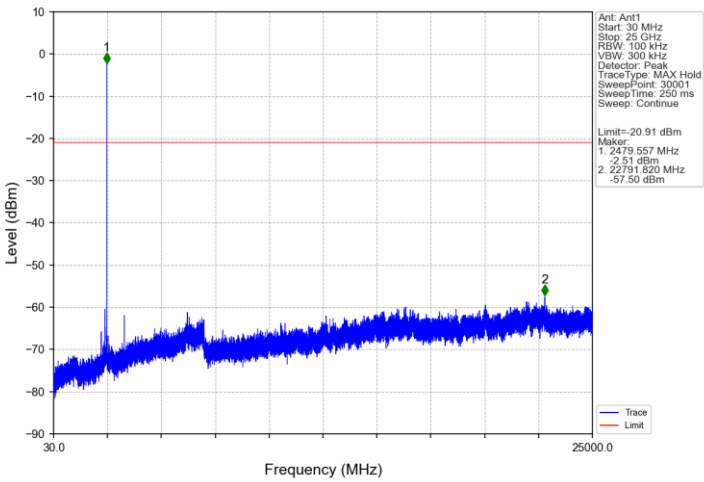
1M_LCH_2402MHz_Ant1_NTNV



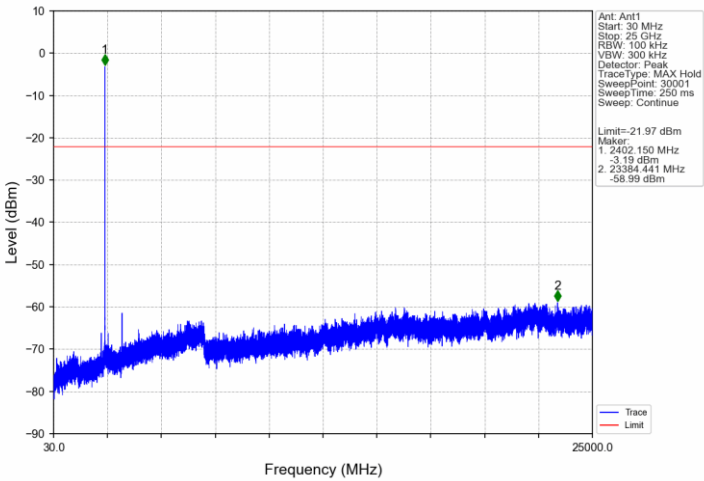
1M_MCH_2440MHz_Ant1_NTNV



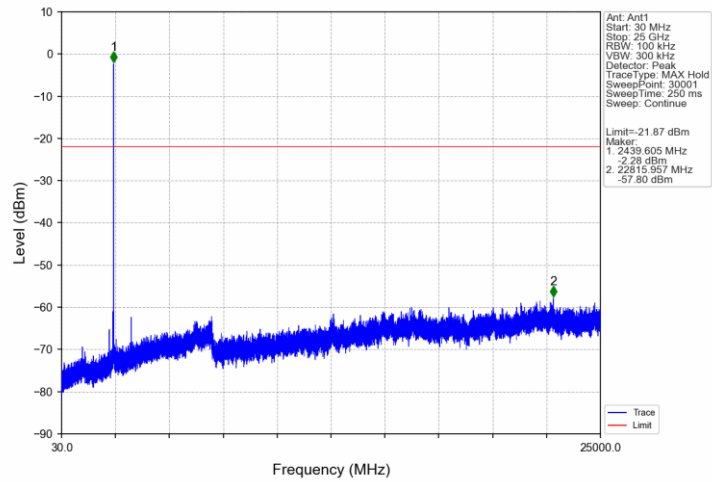
1M_HCH_2480MHz_Ant1_NTNV



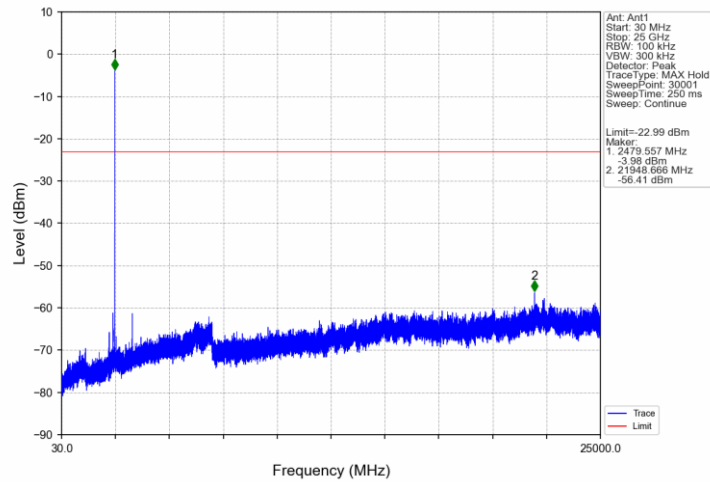
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.5 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 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

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) and RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

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

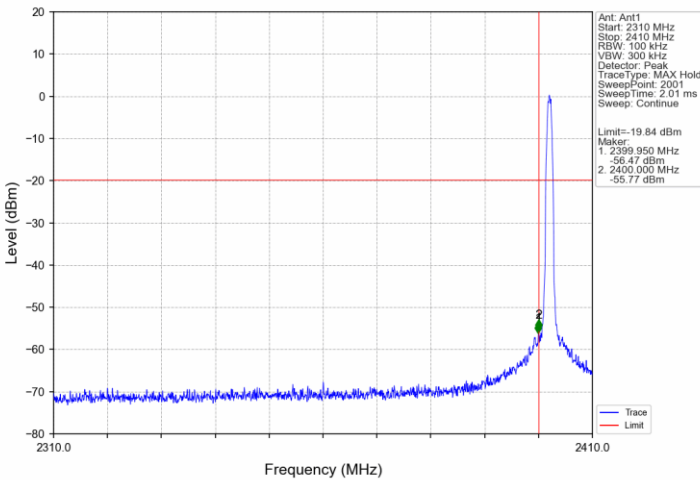
Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.16	-24.71	Pass
		2440	1	0.21	-24.34	Pass
		2480	1	-0.91	-24.46	Pass
2M	SISO	2402	1	-1.97	-24.55	Pass
		2440	1	-1.87	-24.18	Pass
		2480	1	-2.99	-24.27	Pass

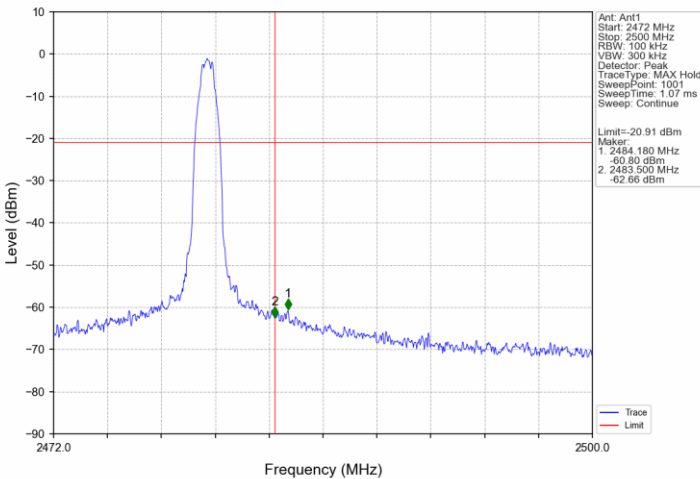
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Band edge testing

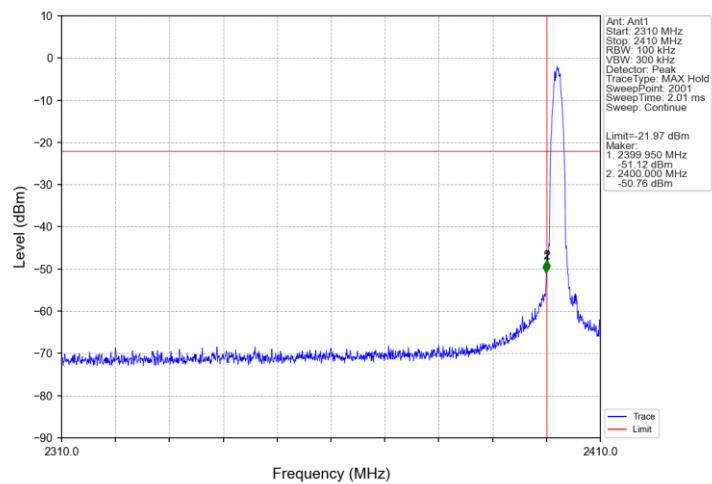
1M_LCH_2402MHz_Ant1_NTNV



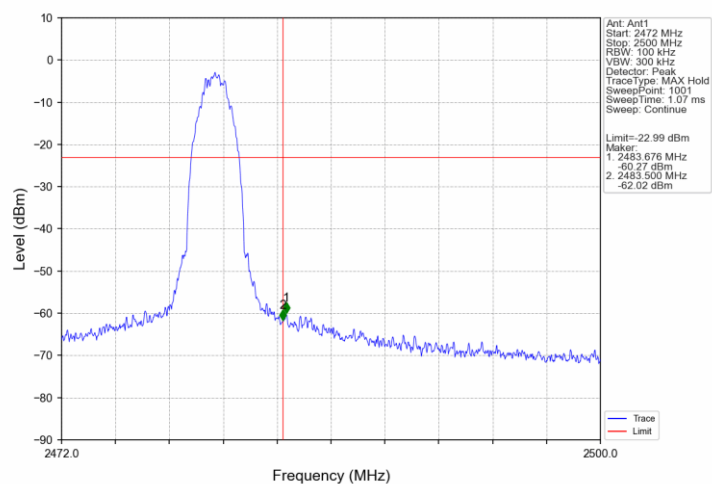
1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



9.6 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:

For Below 1GHz

Use the following test receiver settings:

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.

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.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.

b) VBW = $[3 \times \text{RBW}]$.

c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$.

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) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a) and RSS-Gen section 8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

RSS-Gen section 8.9 General field strength limits at frequencies below 30 MHz:

Frequency MHz	Magnetic field strength (H-Field) (μA/m)	Measurement distance
	μV/m	meters
0.009-0.490	6.37/F (F in kHz)	300
0.490-1.705	63.7/F (F in kHz)	30
1.705-30	0.08	30

When the limit is in terms of magnetic field, the following equation applies:

$$H[\text{dB}(\mu\text{A/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}] - 51.5 [\text{dB}\Omega]$$

When the limit is in terms of electric field, the following equation applies:

$$E[\text{dB}(\mu\text{V/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}]$$

The magnetic field limit is converted to the electric field limit by the equation:

$$E_{\text{limit}}[\text{dB}(\mu\text{V/m})] = H_{\text{limit}} [\text{dB}(\mu\text{A/m})] + 51.5 [\text{dB}\Omega]$$

where

H is the magnetic field strength (to be compared with the limit),

V is the voltage level measured by the receiver or spectrum analyzer.

L_c is the cable loss.

GPA is the gain of the preamplifier (if used), and AFH is the magnetic antenna factor.

FCC&ISED general limit:

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

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

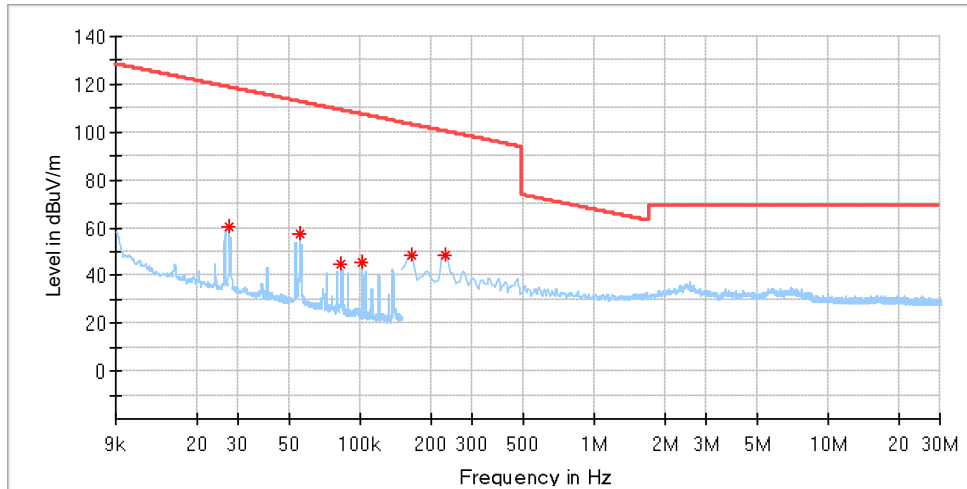
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Spurious radiated emissions for transmitter

Only the worst case (BLE_2Mbps) test result is listed in the report.

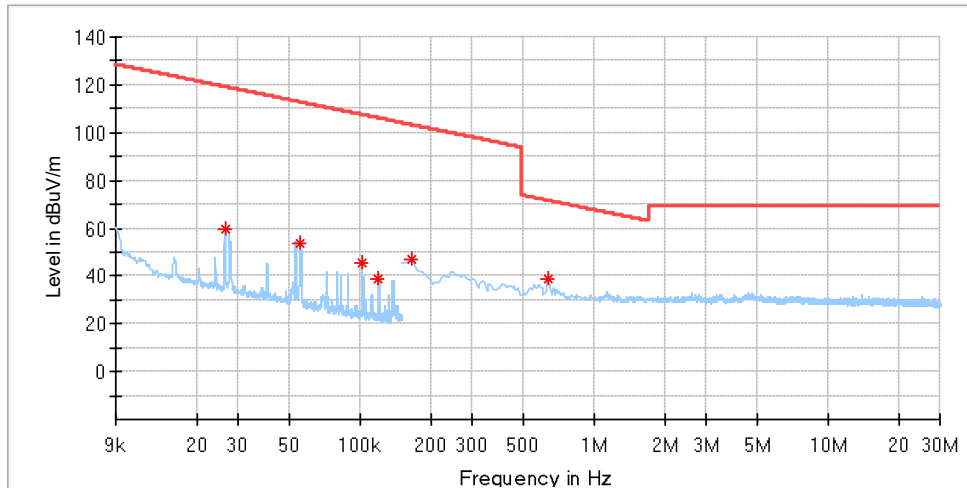
Transmitting spurious emission test result as below:

BLE_2Mbps_2402_(9kHz-30MHz)



Critical_Freqs

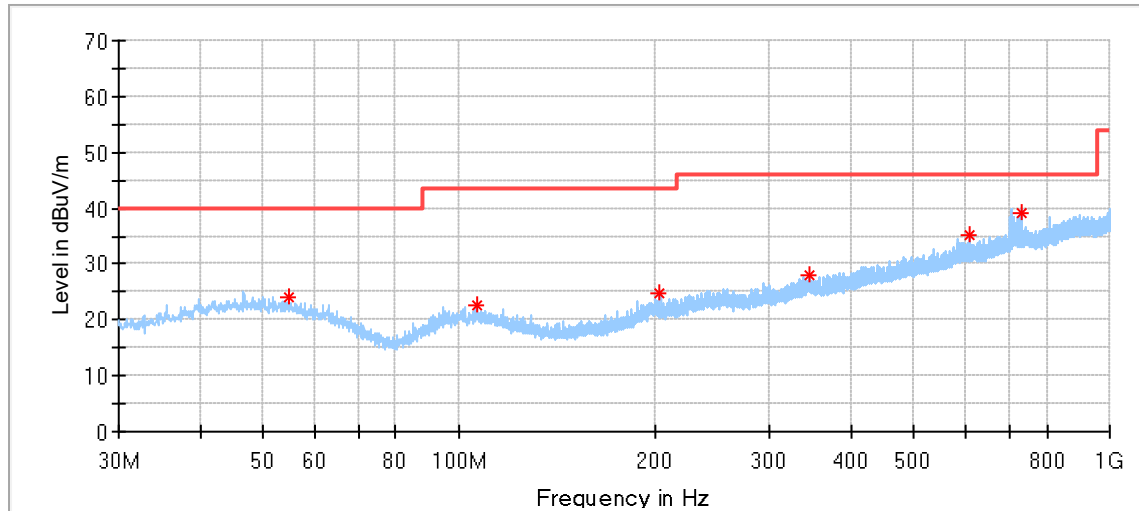
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027518	60.26	118.80	58.54	H	171.0	19.88
0.055201	57.35	112.76	55.40	H	225.0	19.92
0.082649	45.02	109.25	64.23	H	232.0	19.92
0.101966	45.34	107.43	62.09	H	88.0	19.93
0.164925	48.10	103.25	55.15	H	266.0	19.89
0.229600	48.57	100.38	51.81	H	3.0	19.88



Critical_Freqs

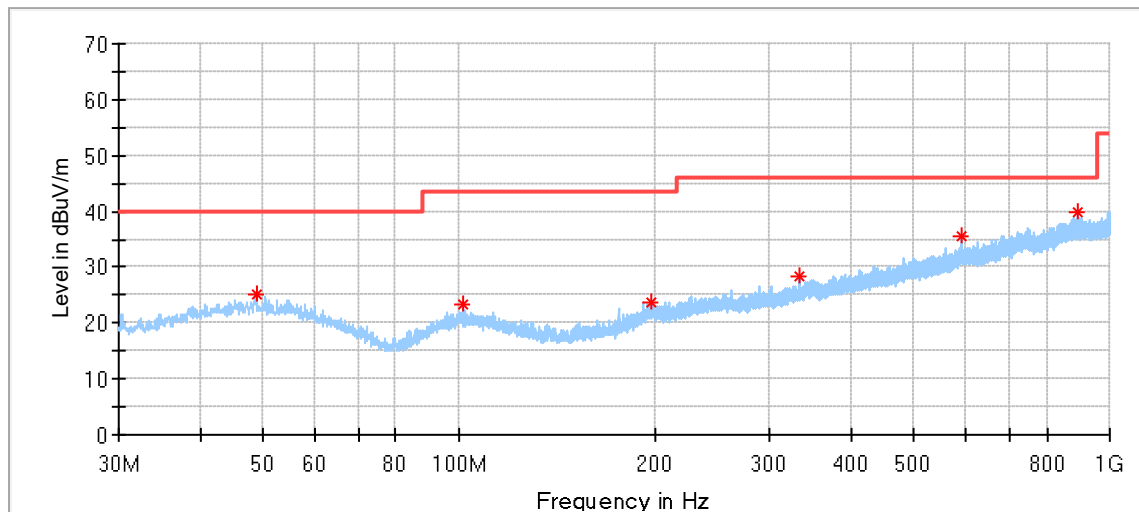
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.026437	59.71	119.15	59.43	V	315.0	19.87
0.055154	53.62	112.76	59.14	V	351.0	19.92
0.101966	45.43	107.43	62.00	V	30.0	19.93
0.120014	39.06	106.01	66.95	V	0.0	19.92
0.164925	46.80	103.25	56.45	V	7.0	19.89
0.632575	38.78	71.59	32.81	V	143.0	19.91

BLE_2Mbps_2402_(30MHz-1GHz)



Critical_Freqs

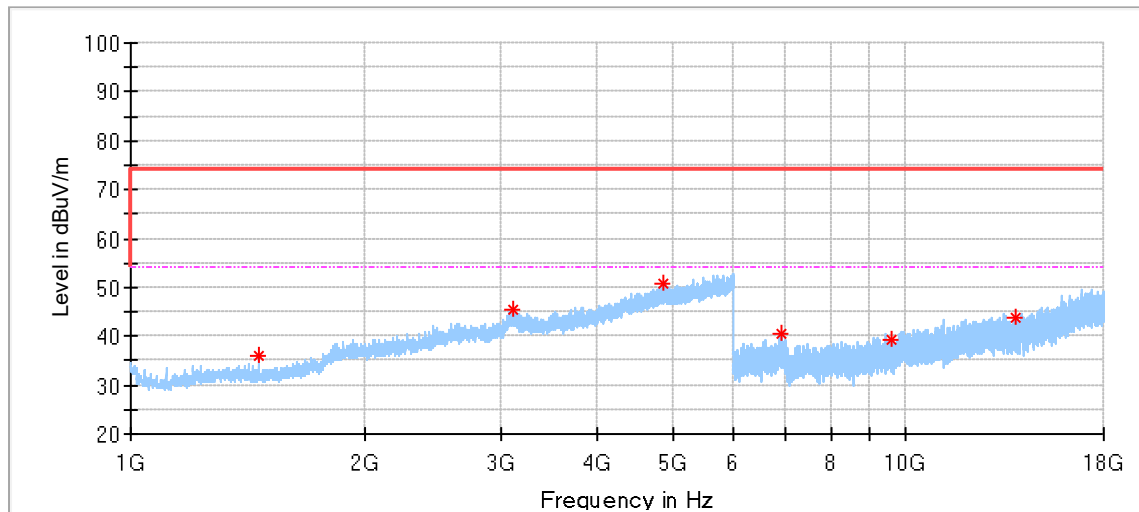
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.896667	23.93	40.00	16.07	100.0	H	276.0	17.60
106.737778	22.49	43.50	21.01	100.0	H	100.0	15.61
203.845556	24.93	43.50	18.57	200.0	H	283.0	15.82
346.112222	27.91	46.00	18.09	100.0	H	308.0	20.23
609.844444	35.00	46.00	11.00	200.0	H	52.0	25.28
730.000000	39.17	46.00	6.83	200.0	H	45.0	28.27



Critical_Freqs

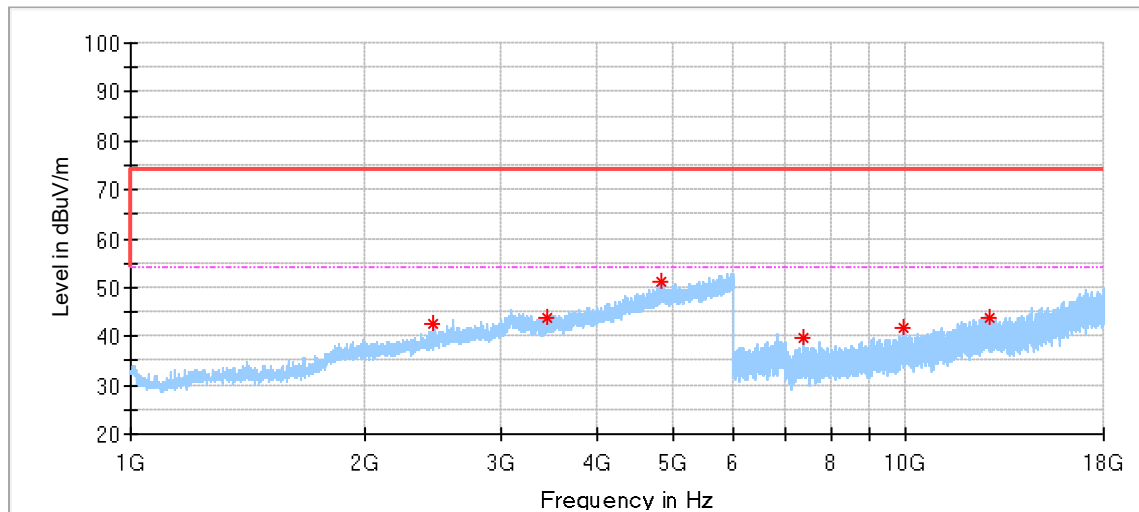
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.753333	25.12	40.00	14.88	100.0	V	157.0	18.15
101.564444	23.36	43.50	20.14	100.0	V	165.0	15.68
197.163333	23.63	43.50	19.87	100.0	V	70.0	16.50
332.532222	28.28	46.00	17.72	100.0	V	204.0	19.53
591.360556	35.40	46.00	10.60	200.0	V	249.0	24.91
894.593333	39.80	46.00	6.20	100.0	V	23.0	29.45

BLE_2Mbps_2402_(1GHz -18GHz)



Critical_Freqs

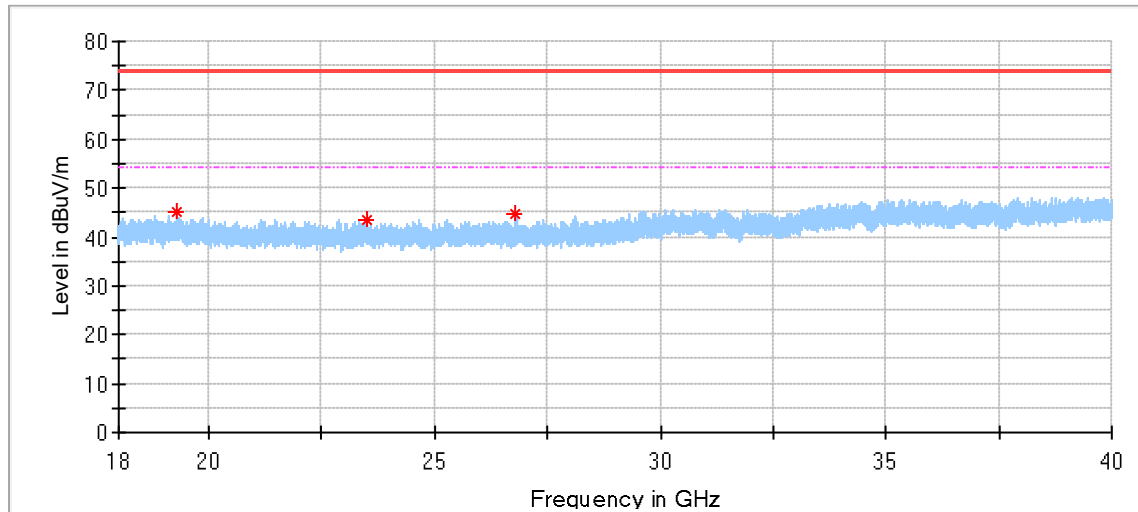
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1463.000000	35.80	74.00	38.20	150.0	H	333.0	-8.10
3114.000000	45.31	74.00	28.69	150.0	H	190.0	1.96
4869.000000	50.64	74.00	23.36	150.0	H	347.0	5.22
6889.500000	40.64	74.00	33.36	150.0	H	257.0	9.43
9603.500000	39.40	74.00	34.60	150.0	H	229.0	12.58
13866.500000	43.86	74.00	30.14	150.0	H	314.0	16.77



Critical_Freqs

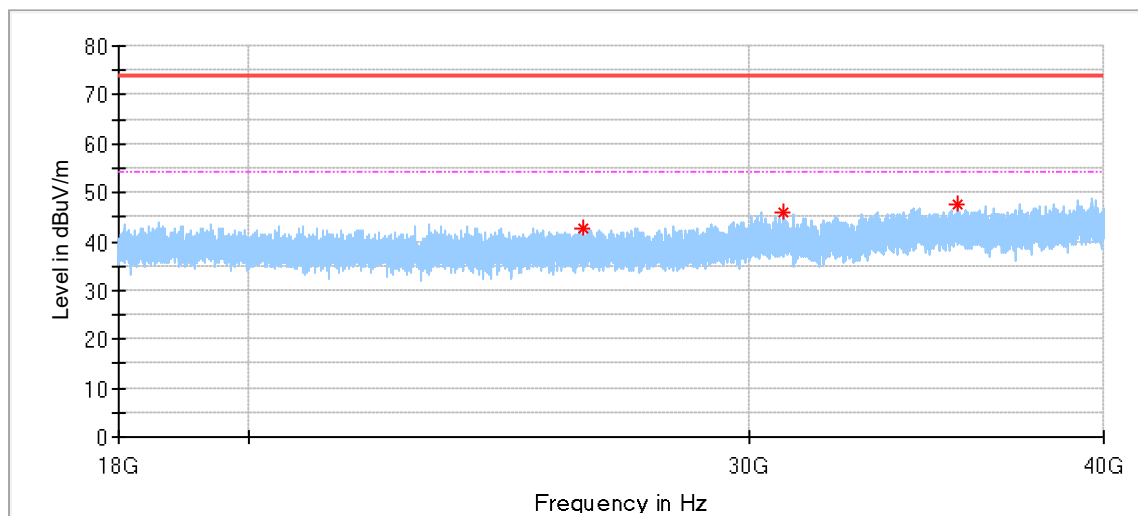
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2459.500000	42.49	74.00	31.51	150.0	V	236.0	-1.59
3445.000000	43.68	74.00	30.32	150.0	V	140.0	0.39
4842.000000	51.18	74.00	22.82	150.0	V	250.0	5.16
7391.000000	39.82	74.00	34.18	150.0	V	285.0	9.59
9918.500000	41.78	74.00	32.22	150.0	V	89.0	13.02
12792.000000	43.89	74.00	30.11	150.0	V	201.0	16.60

BLE_2Mbps_2402_(18GHz -40GHz)



Critical Freqs

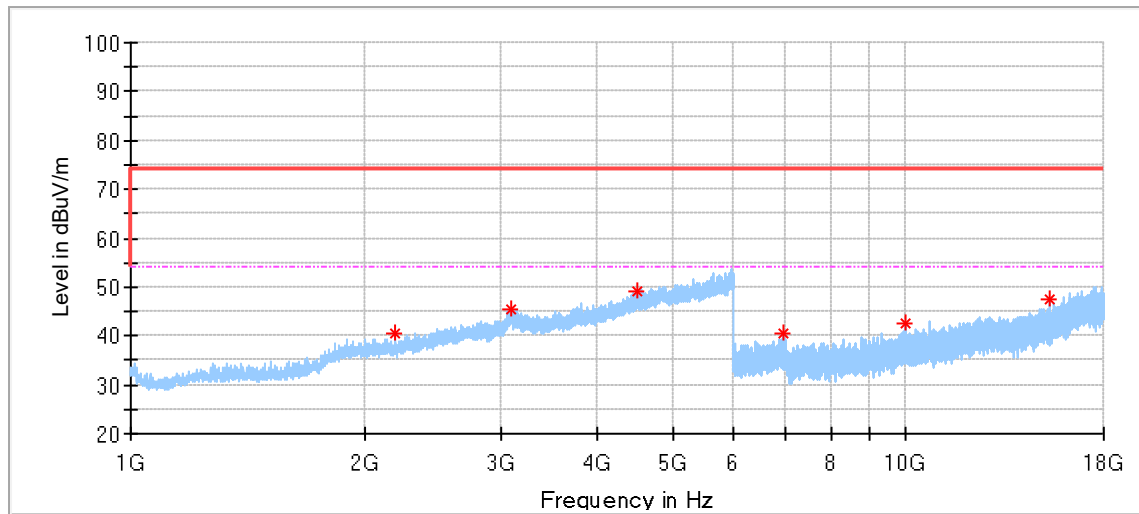
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19284.250000	45.05	74.00	28.95	100.0	H	15.0	-0.11	---
23493.125000	43.50	74.00	30.50	100.0	H	0.0	2.97	---
26764.937500	44.51	74.00	29.49	100.0	H	109.0	3.54	---



Critical Freqs

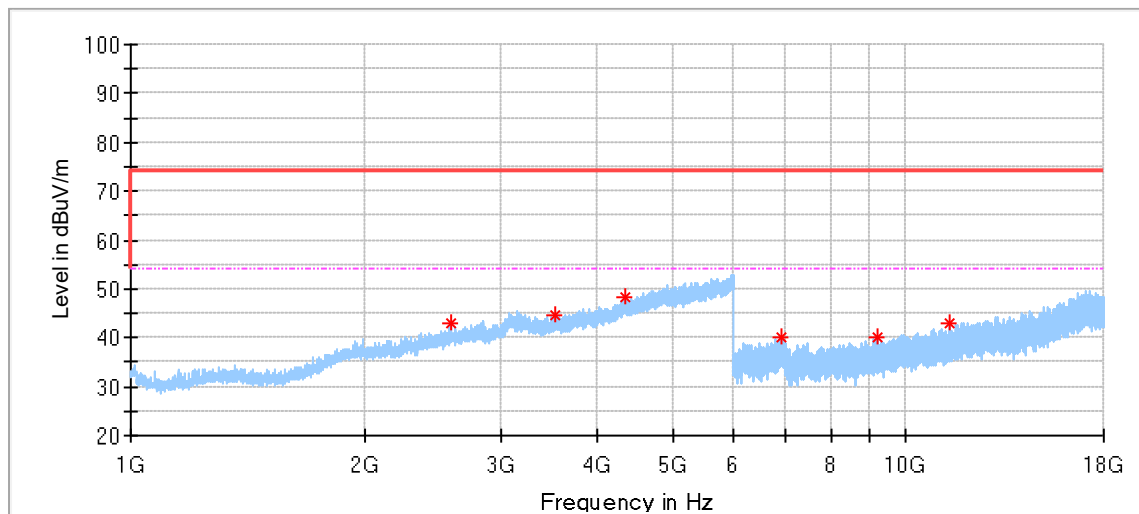
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
26212.187500	42.84	74.00	31.16	100.0	V	0.0	3.66	---
30867.250000	46.13	74.00	27.87	100.0	V	0.0	3.72	---
35529.875000	47.40	74.00	26.60	100.0	V	0.0	5.79	---

BLE_2Mbps_2440_(1GHz -18GHz)



Critical_Freqs

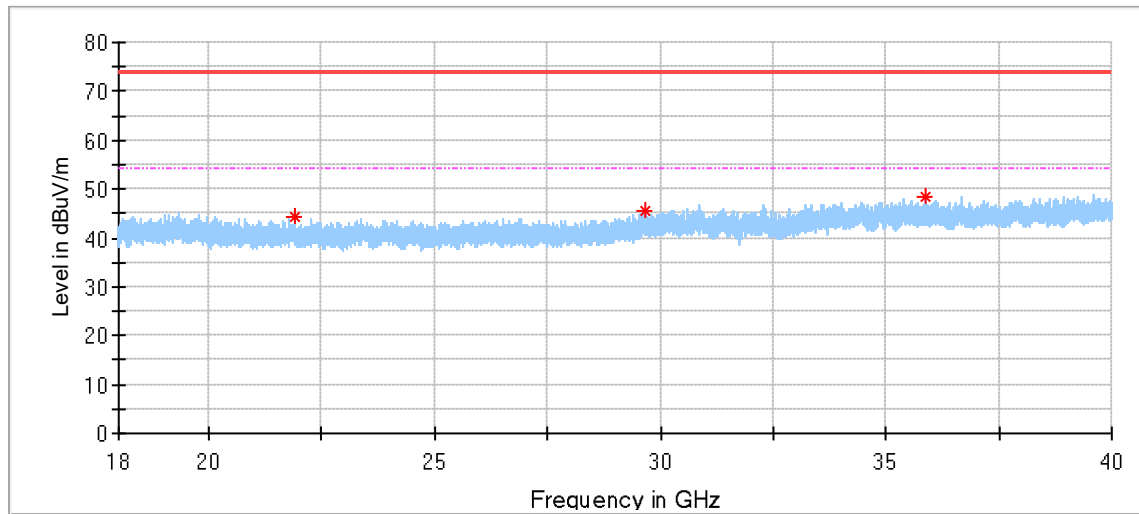
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2198.500000	40.35	74.00	33.65	150.0	H	262.0	-3.01
3097.000000	45.59	74.00	28.41	150.0	H	235.0	2.17
4510.000000	49.06	74.00	24.94	150.0	H	16.0	4.45
6949.500000	40.52	74.00	33.48	150.0	H	148.0	9.57
10006.000000	42.74	74.00	31.26	150.0	H	358.0	13.05
15327.000000	47.30	74.00	26.70	150.0	H	232.0	19.26



Critical_Freqs

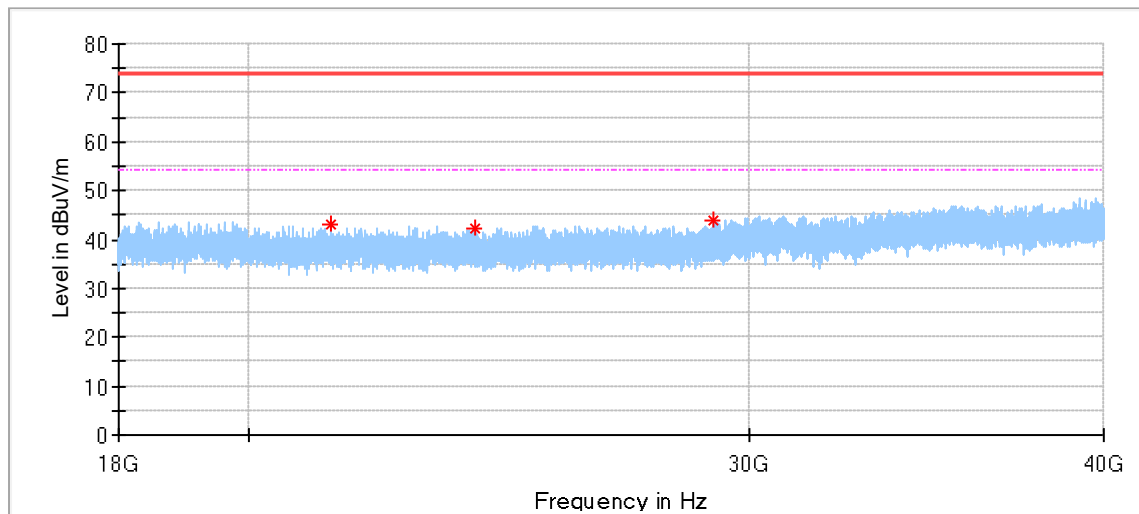
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2589.500000	42.90	74.00	31.10	150.0	V	7.0	-1.12
3534.000000	44.54	74.00	29.46	150.0	V	262.0	1.13
4356.000000	48.11	74.00	25.89	150.0	V	98.0	3.72
6929.500000	40.22	74.00	33.78	150.0	V	357.0	9.52
9215.500000	39.92	74.00	34.08	150.0	V	91.0	12.06
11382.500000	43.11	74.00	30.89	150.0	V	357.0	15.10

BLE_2Mbps_2440_(18GHz -40GHz)



Critical Freqs

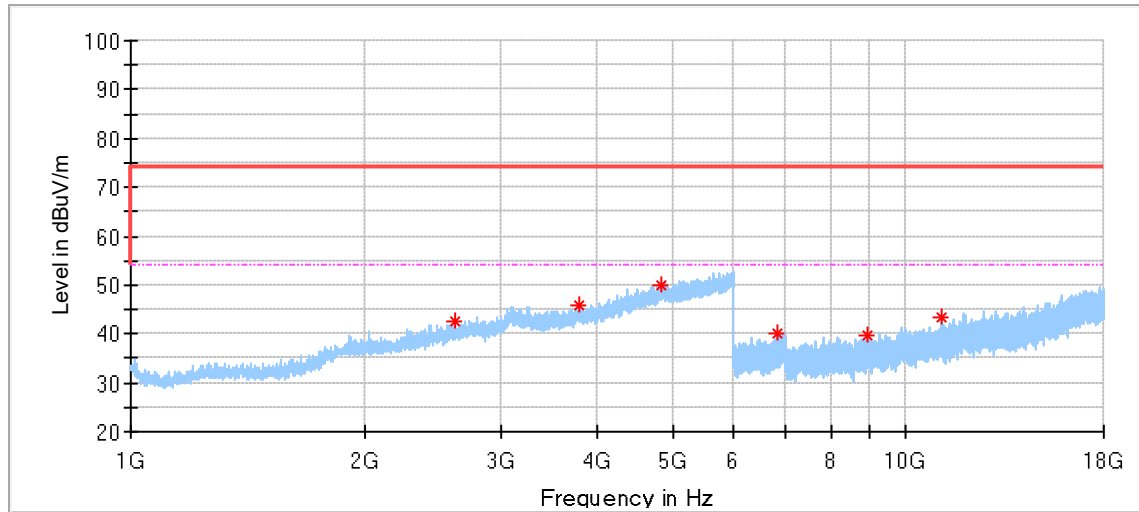
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
21890.562500	44.47	74.00	29.53	100.0	H	30.0	1.99	---
29663.437500	45.46	74.00	28.54	100.0	H	59.0	3.71	---
35871.562500	48.54	74.00	25.46	100.0	H	147.0	5.67	---



Critical Freqs

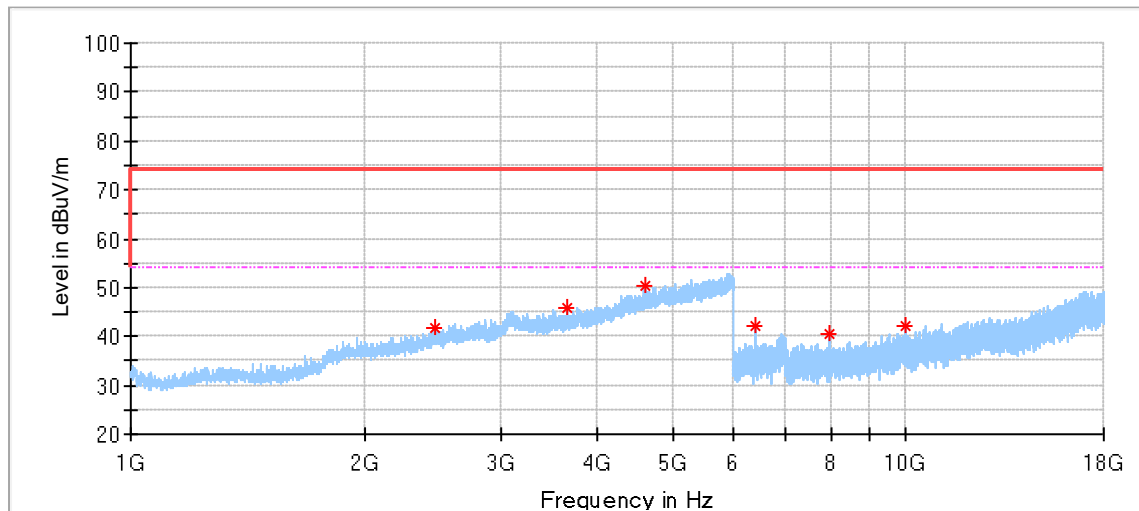
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
21383.875000	43.07	74.00	30.93	100.0	V	0.0	1.61	---
24025.937500	42.43	74.00	31.57	100.0	V	0.0	2.96	---
29160.187500	43.79	74.00	30.21	100.0	V	0.0	3.21	---

BLE_2Mbps_2480_(1GHz -18GHz)



Critical Freqs

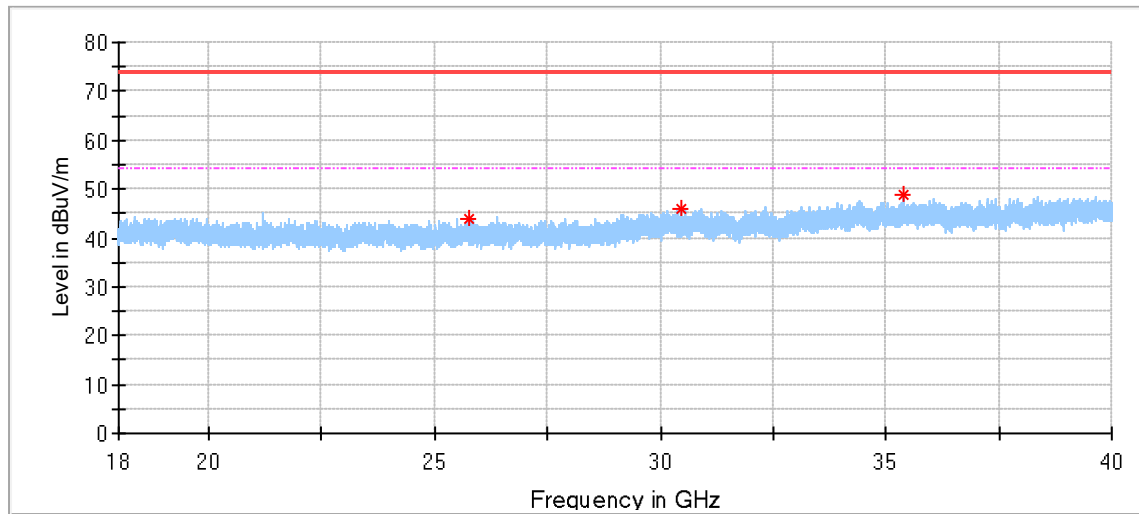
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2621.000000	42.75	74.00	31.25	150.0	H	19.0	-1.21
3792.500000	45.79	74.00	28.21	150.0	H	292.0	2.09
4834.000000	49.94	74.00	24.06	150.0	H	306.0	5.13
6809.000000	40.17	74.00	33.83	150.0	H	176.0	9.00
8913.500000	39.85	74.00	34.15	150.0	H	148.0	11.61
11133.000000	43.54	74.00	30.46	150.0	H	343.0	14.61



Critical Freqs

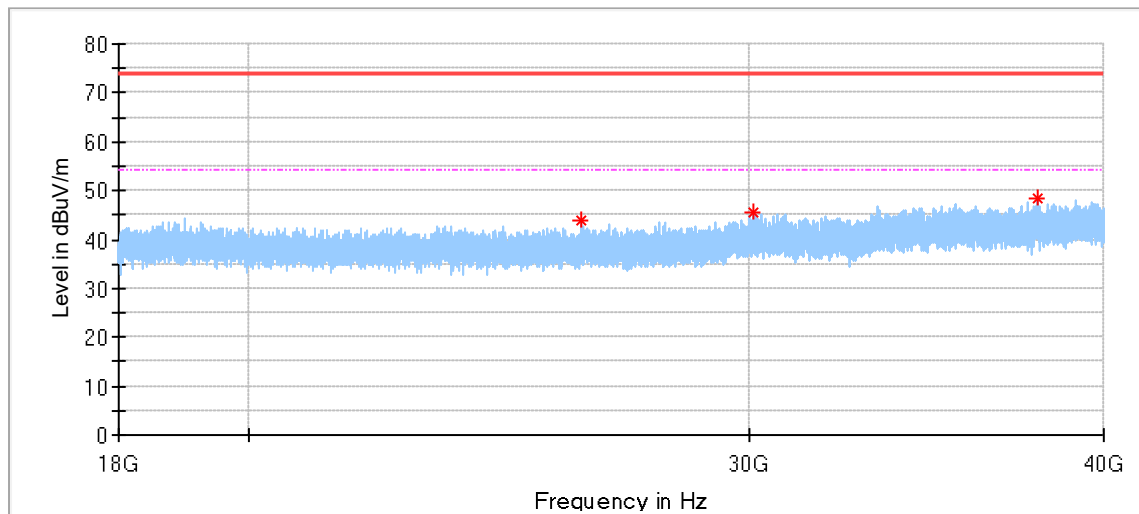
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2468.500000	41.74	74.00	32.26	150.0	V	127.0	-1.51
3665.000000	46.05	74.00	27.95	150.0	V	356.0	1.47
4597.500000	50.22	74.00	23.78	150.0	V	8.0	4.63
6394.500000	41.99	74.00	32.01	150.0	V	260.0	8.59
7981.500000	40.65	74.00	33.35	150.0	V	232.0	10.39
10006.500000	42.05	74.00	31.96	150.0	V	120.0	13.06

BLE_2Mbps_2480_(18GHz -40GHz)



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
25781.812500	44.07	74.00	29.93	100.0	H	153.0	3.63	---
30441.687500	45.96	74.00	28.04	100.0	H	321.0	3.83	---
35373.812500	48.63	74.00	25.37	100.0	H	4.0	5.85	---

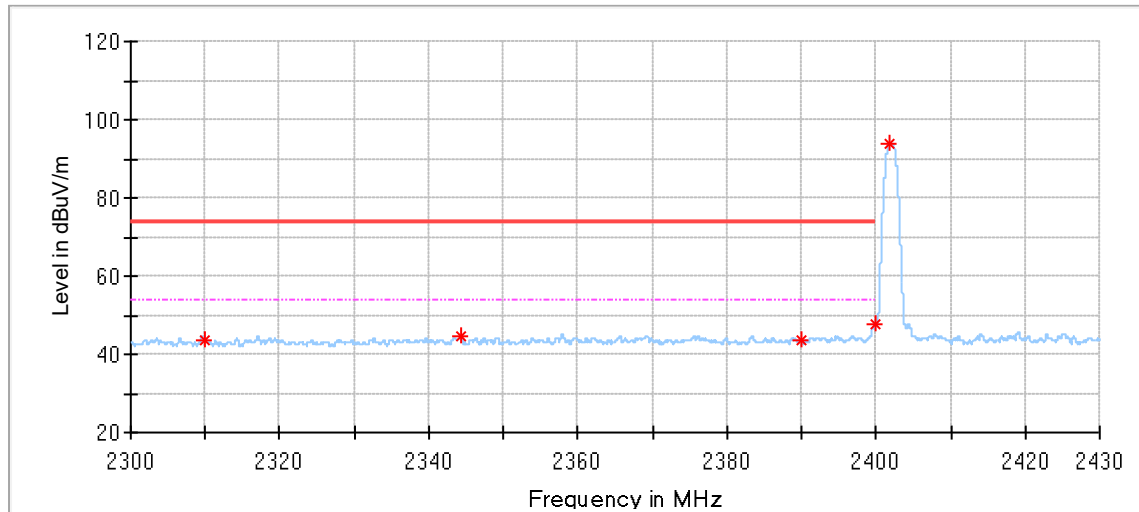


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
26206.687500	43.70	74.00	30.30	100.0	V	0.0	3.66	---
30126.812500	45.36	74.00	28.64	100.0	V	0.0	4.01	---
37923.062500	48.22	74.00	25.78	100.0	V	0.0	6.30	---

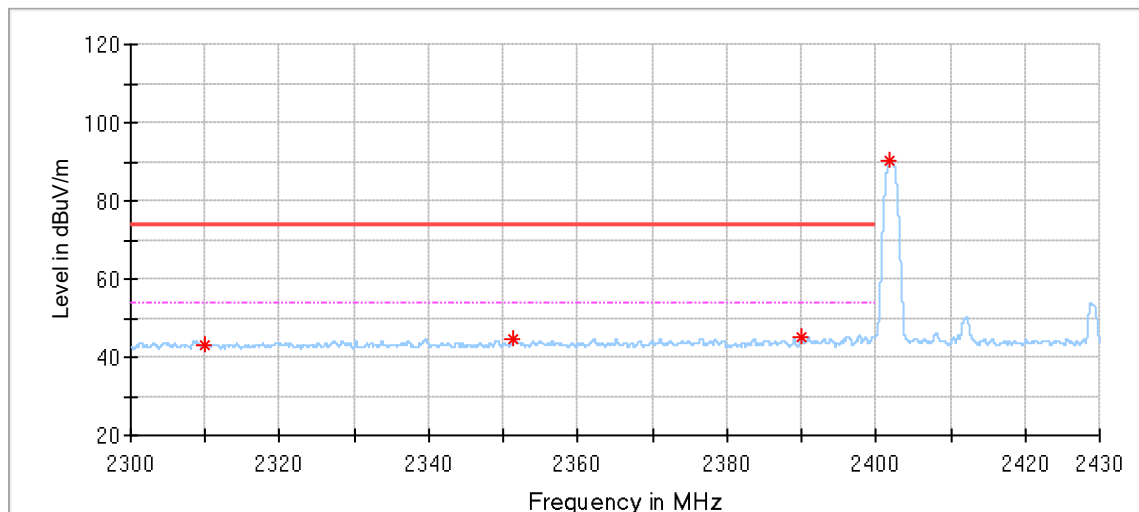
Restricted-band band-edge

BLE_1Mbps_2402



Critical_Freqs

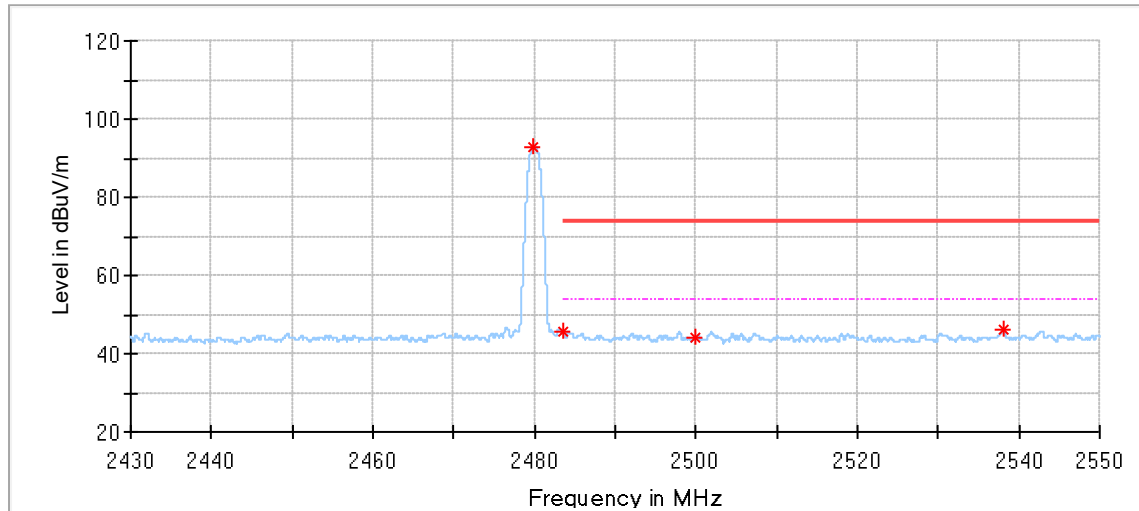
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2309.893000	43.80	74.00	30.20	150.0	H	299.0	-2.19
2344.278000	44.42	74.00	29.58	150.0	H	196.0	-2.40
2390.051000	43.50	74.00	30.50	150.0	H	15.0	-1.92
2399.957000	47.79	74.00	26.21	150.0	H	69.0	-1.76
2401.855000	94.07	---	---	150.0	H	69.0	-1.73



Critical_Freqs

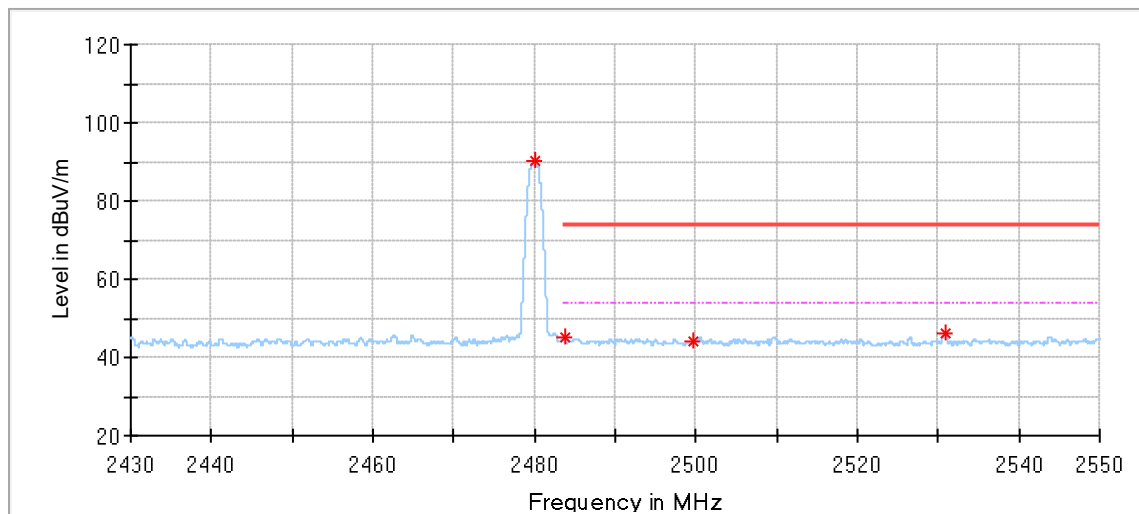
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2309.984000	42.94	74.00	31.06	150.0	V	67.0	-2.19
2351.311000	44.69	74.00	29.31	150.0	V	359.0	-2.43
2390.103000	45.06	74.00	28.94	150.0	V	330.0	-1.92
2401.855000	90.17	---	---	150.0	V	303.0	-1.73

BLE_1Mbps_2480



Critical_Freqs

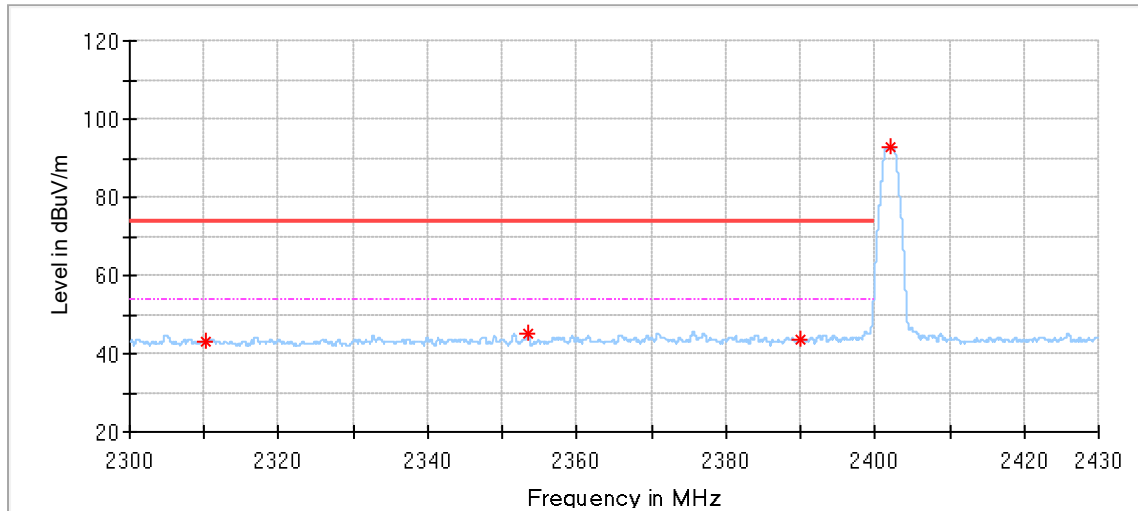
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.752000	92.86	---	---	150.0	H	66.0	-1.44
2483.592000	45.55	74.00	28.45	150.0	H	66.0	-1.45
2499.864000	44.18	74.00	29.82	150.0	H	166.0	-1.48
2537.976000	46.23	74.00	27.77	150.0	H	175.0	-1.17



Critical_Freqs

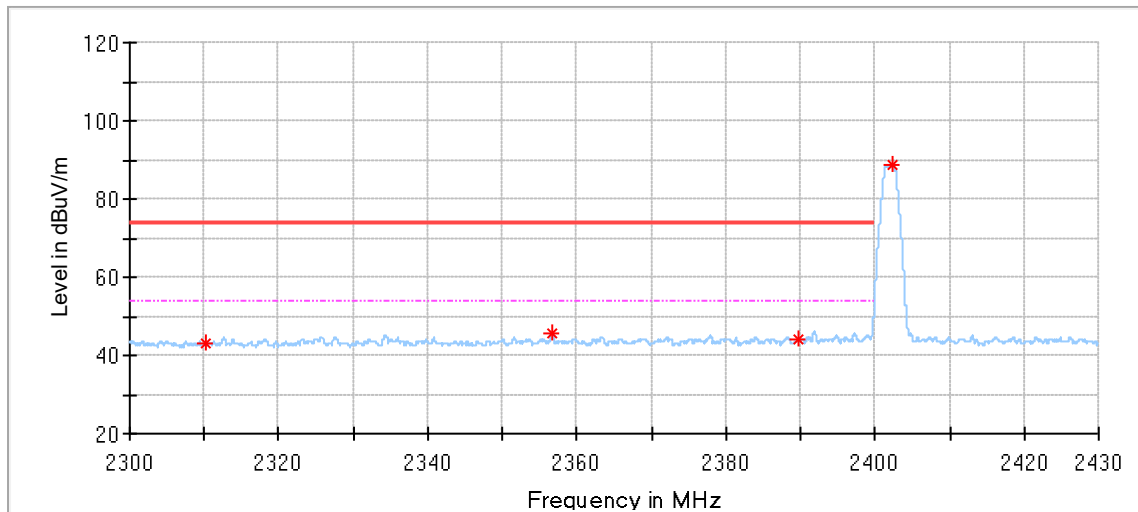
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.148000	90.01	---	---	150.0	V	349.0	-1.44
2483.700000	45.03	74.00	28.97	150.0	V	48.0	-1.45
2499.672000	43.92	74.00	30.08	150.0	V	214.0	-1.48
2530.812000	46.24	74.00	27.76	150.0	V	166.0	-1.29

BLE_2Mbps_2402



Critical Freqs

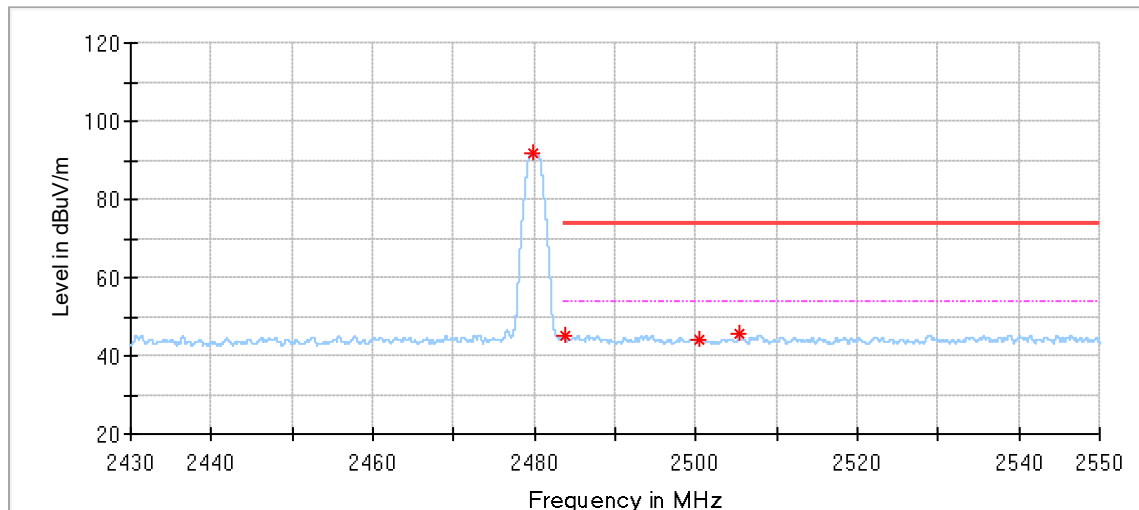
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.270000	43.23	74.00	30.77	150.0	H	302.0	-2.19
2353.365000	44.95	74.00	29.05	150.0	H	120.0	-2.43
2390.103000	43.84	74.00	30.16	150.0	H	17.0	-1.92
2401.972000	92.85	---	---	150.0	H	62.0	-1.73



Critical Freqs

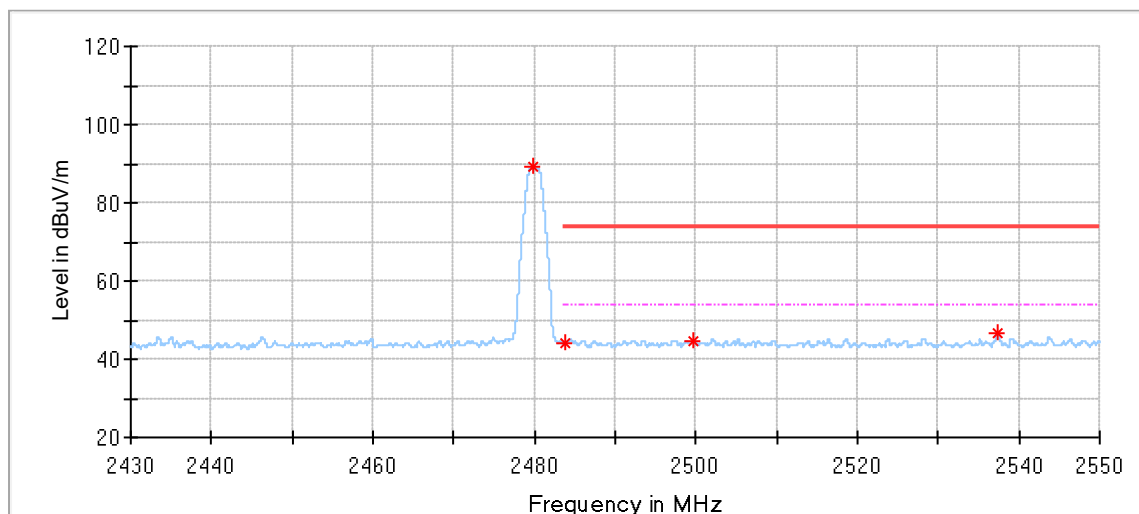
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.309000	42.83	74.00	31.17	150.0	V	4.0	-2.19
2356.680000	45.43	74.00	28.57	150.0	V	184.0	-2.39
2389.791000	44.18	74.00	29.82	150.0	V	166.0	-1.92
2402.284000	88.52	---	---	150.0	V	311.0	-1.72

BLE_2Mbps_2480



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.944000	91.75	---	---	150.0	H	64.0	-1.44
2483.796000	44.91	74.00	29.09	150.0	H	64.0	-1.45
2500.308000	44.08	74.00	29.92	150.0	H	36.0	-1.48
2505.288000	45.59	74.00	28.41	150.0	H	245.0	-1.46



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.896000	89.09	---	---	150.0	V	349.0	-1.44
2483.796000	44.17	74.00	29.83	150.0	V	286.0	-1.45
2499.648000	44.37	74.00	29.63	150.0	V	186.0	-1.48
2537.340000	46.45	74.00	27.55	150.0	V	341.0	-1.18

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

List of Test Instruments

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	2026-4-25
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2026-7-17
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	2026-4-25
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2026-2-11
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2026-4-19
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-40G) (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	2026-4-25
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2026-3-10
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2026-6-19
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2026-4-19
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-003	100747	1	2026-4-19
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2026-7-7
Cable	OUQIAO	18DLB5-NMMN-7000	68-4-90-19-006-A22	----	----	----
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 Test System

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	2026-4-18
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2026-4-18
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 Radiated Emission in 3m chamber (68-4-90-14-001)9kHz-30MHz	4.70dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.79dB; Vertical: 5.86dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006)1000MHz-18000MHz	Horizontal: 5.38dB; Vertical: 5.38dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	Horizontal: 5.29dB; Vertical: 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

---THE END OF REPORT---