

FCC - TEST REPORT

Report Number : **6891025006801** Date of Issue: 2025-08-15

Models : **pro7HC, my8, pro8, pro4plus, FitStop**

Product Type : Vibrating Exercise Plate

Applicant : Performance Health Systems UK Ltd

Address : FORA, 20 Eastbourne Terrace London, Greater London,
W26LG, UNITED KINGDOM

Manufacturer : Performance Health Systems UK Ltd

Address : FORA, 20 Eastbourne Terrace London, Greater London,
W26LG, UNITED KINGDOM

Factory : Performance Health Systems China Limited

Address : Section 1, 6th Floor, Building A, Block D-XB-02-02-04-02,
Northern Leliu Town, Shunde District, 528300 Foshan,
Guangdong, PEOPLE'S REPUBLIC OF CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : **39**

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation chapter A-3.4.



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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:	Vibrating Exercise Plate
Model no.:	pro7HC, my8, pro8, pro4plus, FitStop
FCC ID:	2AF6VM8P8
Options and accessories:	NIL
Ratings:	120VAC, 50/60Hz, 220W (for pro7HC and pro8), 180W (for my8, pro4plus and FitStop), Class I
RF Transmission Frequency:	2402MHz-2480MHz for BLE
No. of Operated Channel:	40
Modulation:	GFSK for BLE
Antenna Type:	1 x Multilayer ceramic antenna
Antenna Gain:	2.66dBi
Description of the EUT:	This Equipment Under Test is a Vibrating Exercise Plate with 2.4GHz WLAN, 5GHz RLAN, 13.56MHz RFID and Bluetooth BLE functions.
Remark:	This report is only for Bluetooth BLE.

NOTE 1:

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

NOTE 2:

All models have same structure, main control board, UBD board, flitter board, power board and hall board.

Models pro7HC and pro8 are the same, except the model name.

Models my8, pro4plus and FitStop are the same, except the model name.

Models pro7HC and my8 have different Side panel board, Motor type and dimension, others are the same.

Unless otherwise specified, the full RF tests were applied on model pro8, other models were deemed to fulfil the relevant test requirements without further testing.



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

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	☒	☐	☐	T: 22.4°C H: 54.3%
§15.247 (b) (3)	Conducted peak output power	Site 1	☒	☐	☐	T: 23.4°C H: 52.7%
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐	T: 23.4°C H: 52.7%
§15.247(e)	Power spectral density	Site 1	☒	☐	☐	T: 23.7°C H: 52.7%
§15.247(d)	Spurious RF conducted emissions	Site 1	☒	☐	☐	T: 23.8°C H: 52.7%
§15.247(d)	Band edge	Site 1	☒	☐	☐	T: 23.1°C H: 58.0%
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐	T: 23.2°C H: 58.1%
§15.203	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.

Note 2: The EUT use a PCB antenna, which gain of antenna is 2.66dBi. 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 and RF tests of pro8 were tested with AC mains input, and the input voltage is 120VAC/60Hz.

This submittal(s) (test report) is intended for FCC ID: 2AF6VM8P8 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: 2025-07-18

Testing Start Date: 2025-07-22

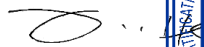
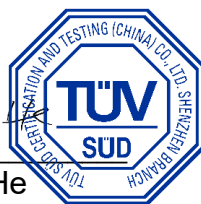
Testing End Date: 2025-08-12

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

Reviewed by:

Prepared by:

Tested by:

Jessie He
Project Manager



Myron Yu
Project Engineer

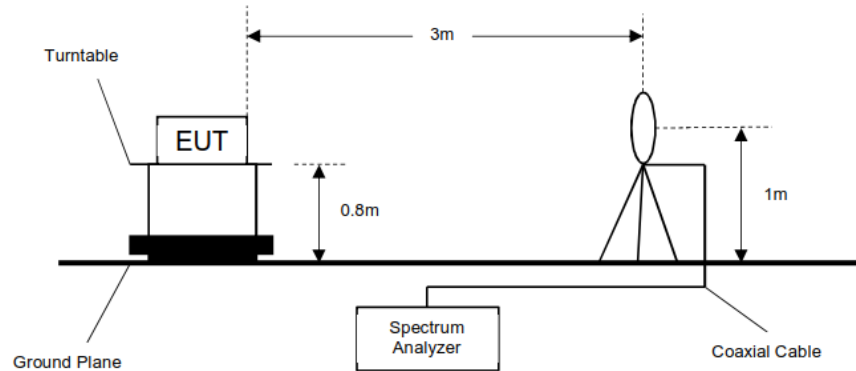


Carry Cai
Test Engineer

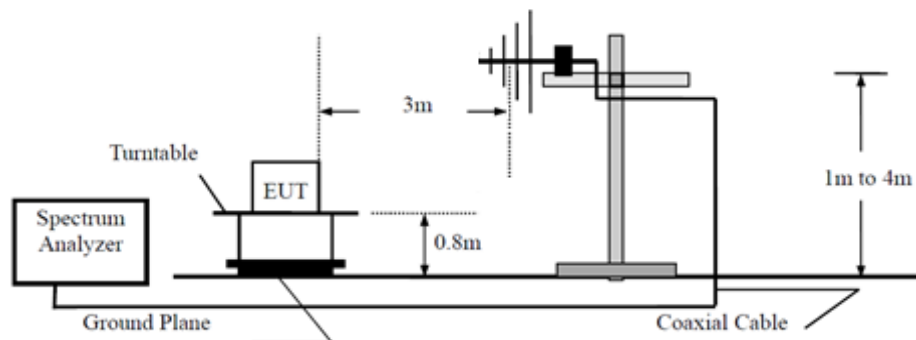
7 Test Setups

7.1 Radiated test setups

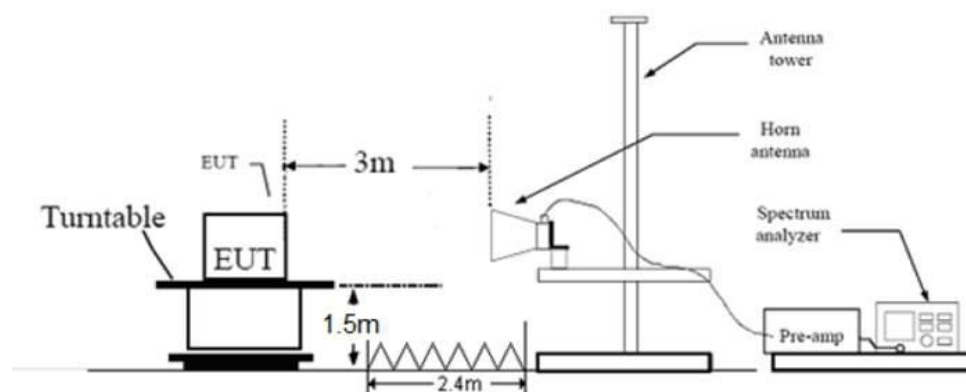
9kHz - 30MHz



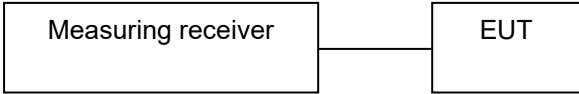
Below 1GHz



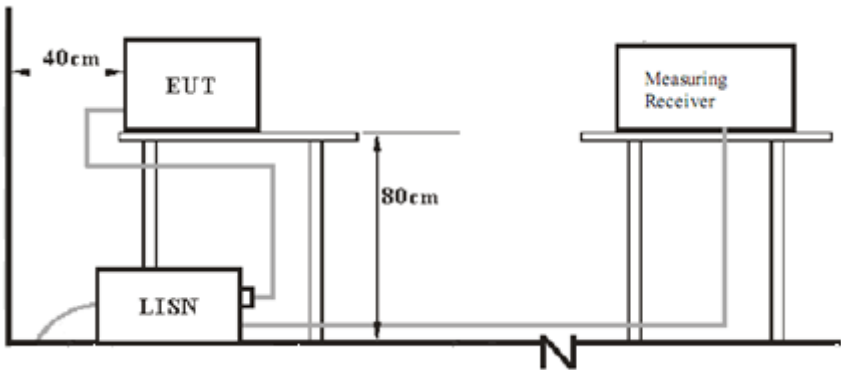
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



7.4 Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model no.	Remark
Laptop	Lenovo	X240	L34015282

Test software information:

Test Software Version	RTL8822EUMP	
Modulation	Setting TX Power	Packet Type
BLE 1M	Power Index: default	Pn9

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

8 Technical Requirement

8.1 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:

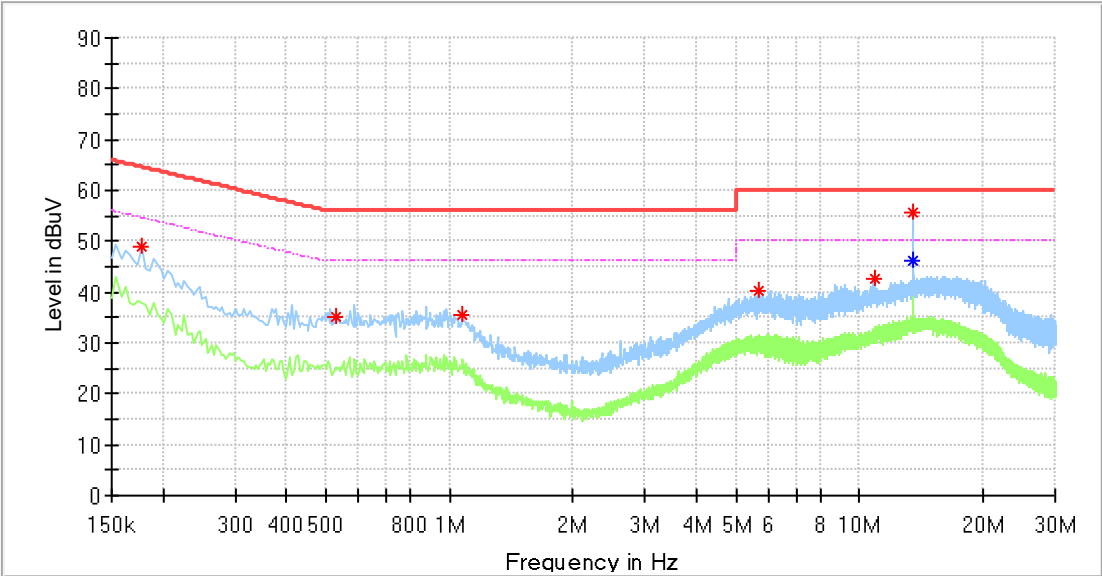
Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

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



Conducted Emission

Product Type : Vibrating Exercise Plate
M/N : pro8
Operating Condition : BLE communication mode
Test Specification : Power Line, Live
Comment : AC 120V/60Hz



Critical_Freqs

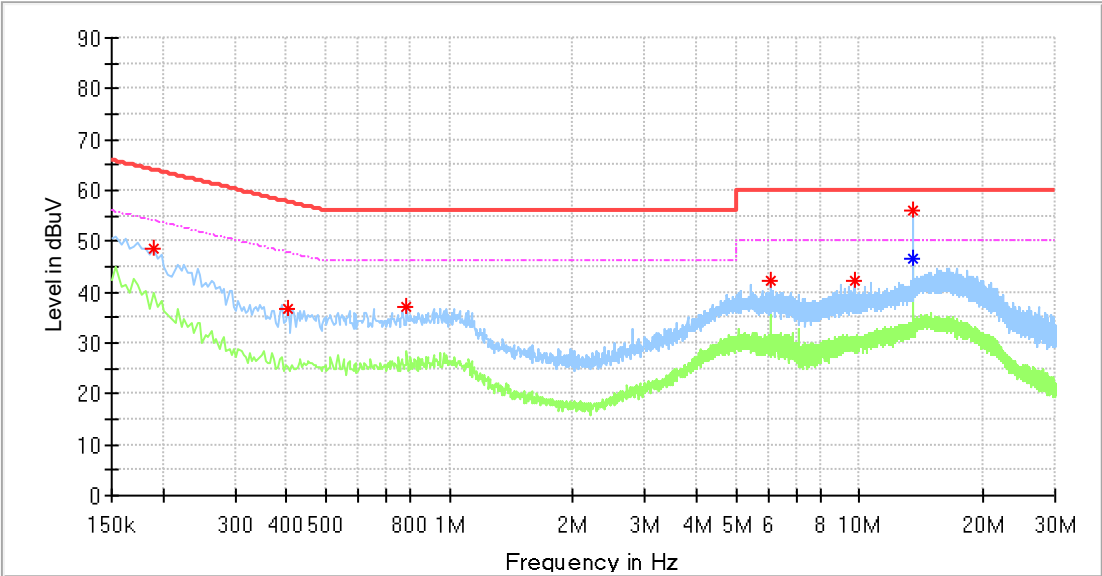
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.178000	48.92	---	64.58	15.66	L1	10.03
0.526000	35.23	---	56.00	20.77	L1	10.04
1.078000	35.35	---	56.00	20.65	L1	10.05
5.654000	40.18	---	60.00	19.82	L1	10.16
10.854000	42.48	---	60.00	17.52	L1	10.54
13.562000	55.70	---	60.00	4.30	L1	10.45
13.566000	---	46.10	50.00	3.90	L1	10.45

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)



Conducted Emission

Product Type : Vibrating Exercise Plate
M/N : pro8
Operating Condition : BLE communication mode
Test Specification : Power Line, Neutral
Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.190000	48.57	---	64.04	15.47	N	10.08
0.402000	36.55	---	57.81	21.26	N	10.05
0.786000	37.07	---	56.00	18.93	N	10.05
6.086000	42.07	---	60.00	17.93	N	10.26
9.686000	42.26	---	60.00	17.74	N	10.63
13.562000	---	46.50	50.00	3.50	N	10.56
13.562000	56.10	---	60.00	3.90	N	10.56

Remark:
Level=Reading Level + Correction Factor
Correction Factor=Cable Loss + LISN Factor
(The Reading Level is recorded by software which is not shown in the sheet)

8.2 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:

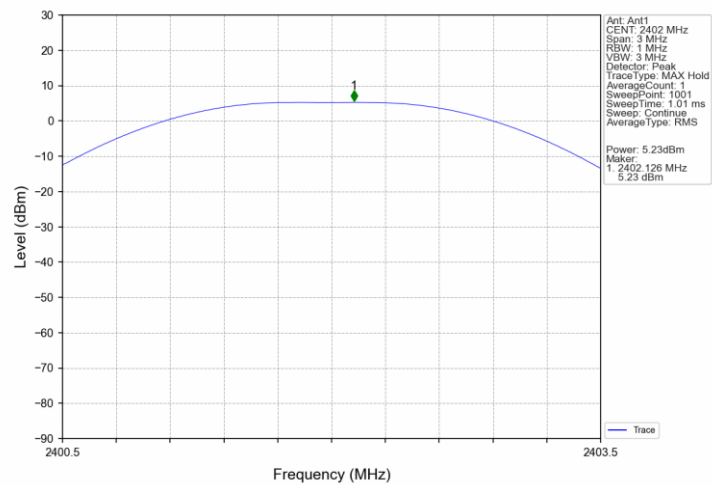
Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test Results

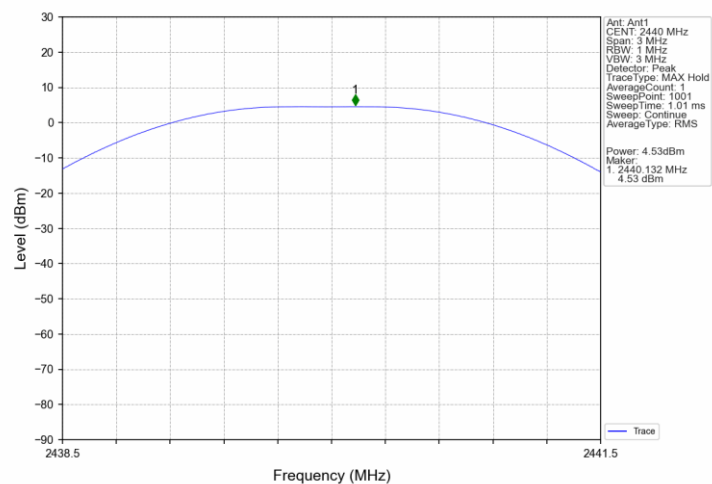
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Results	Limit	
1M	SISO	2402	5.23	≤ 30	Pass
		2440	4.53	≤ 30	Pass
		2480	3.35	≤ 30	Pass



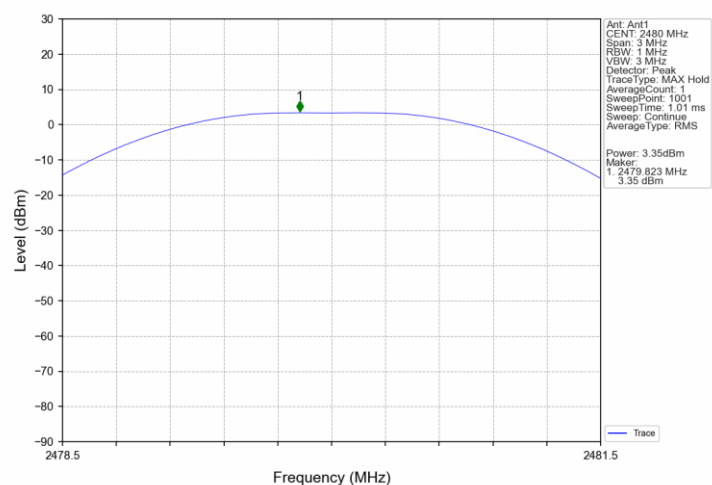
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





8.3 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

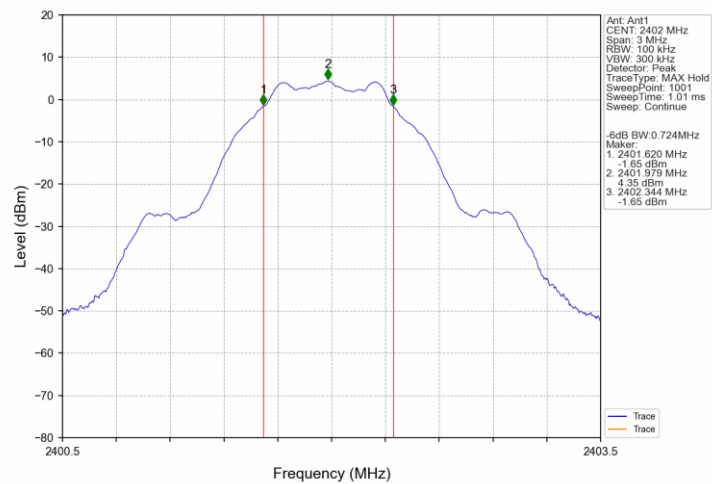
6dB bandwidth Limit [kHz]
≥500

Test result for 6 dB Bandwidth

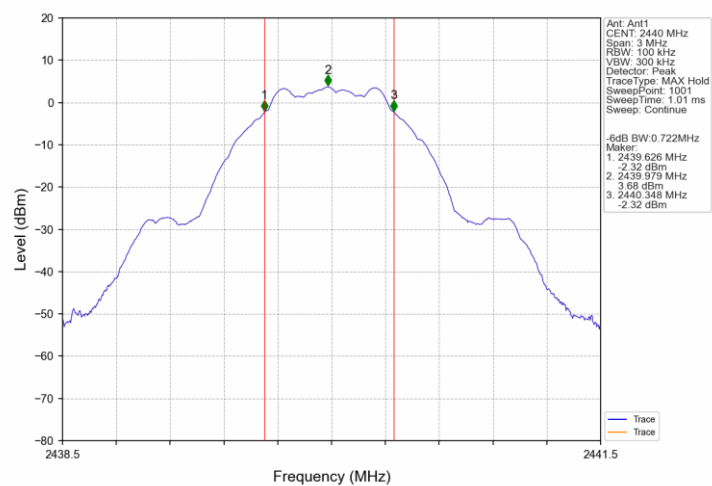
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.724	>=0.5	Pass
		2440	1	0.722	>=0.5	Pass
		2480	1	0.726	>=0.5	Pass



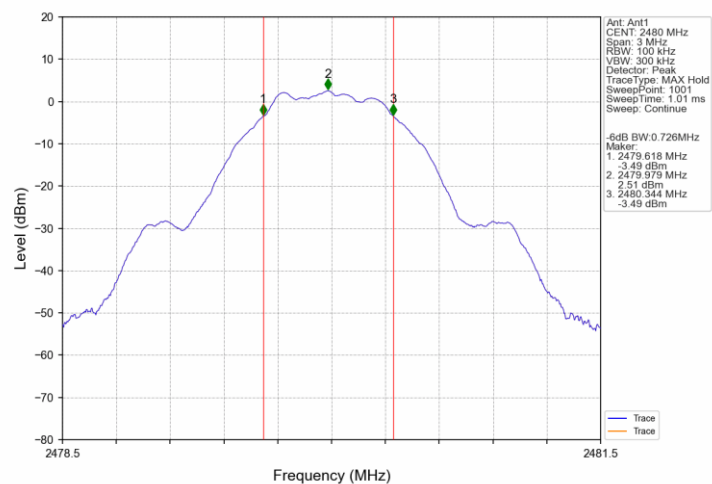
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





8.4 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≥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]

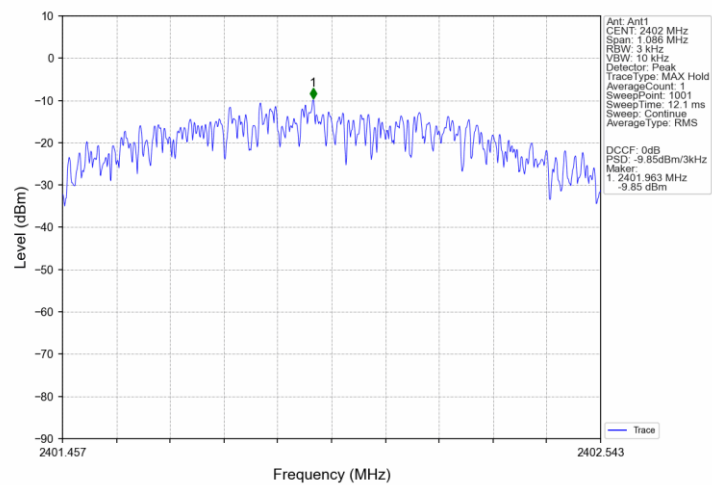
≤ 8

Test Results

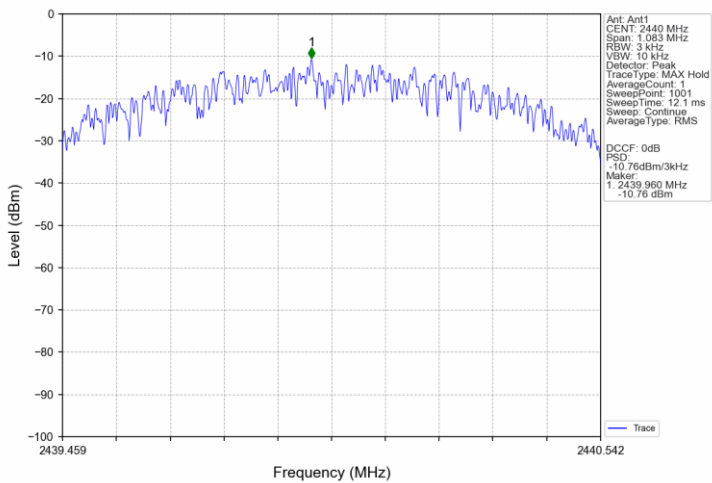
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Results	Limit	
1M	SISO	2402	-9.85	<=8	Pass
		2440	-10.76	<=8	Pass
		2480	-12.83	<=8	Pass



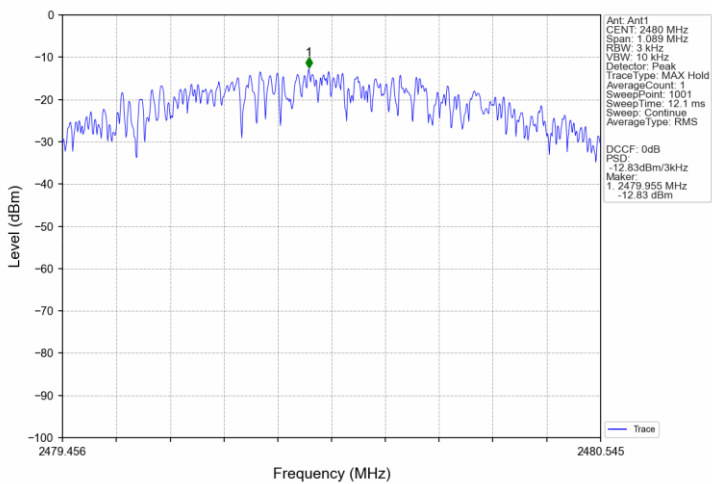
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





8.5 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

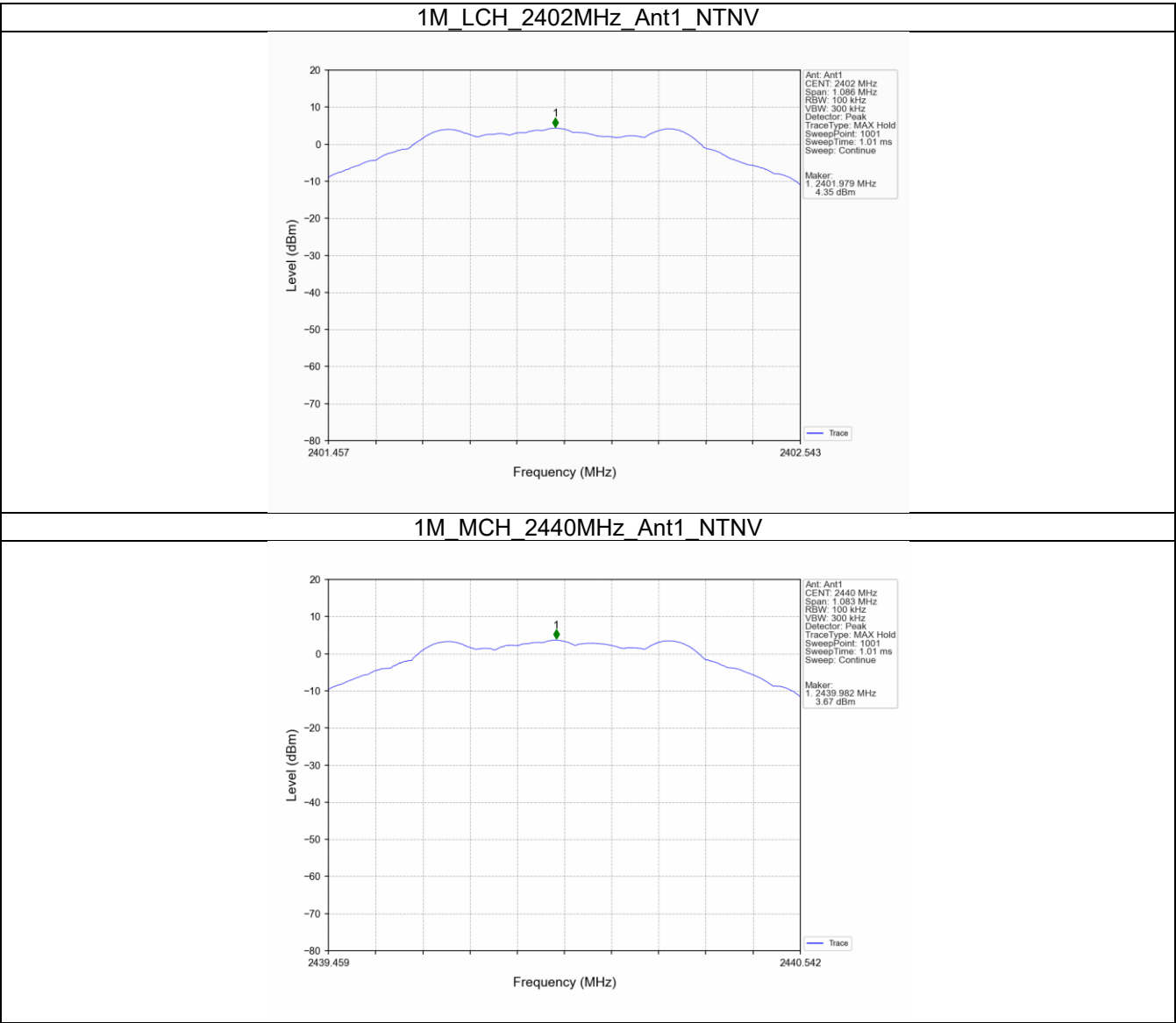
Frequency Range MHz	Limit (dBc)
30-25000	-20



Test Result

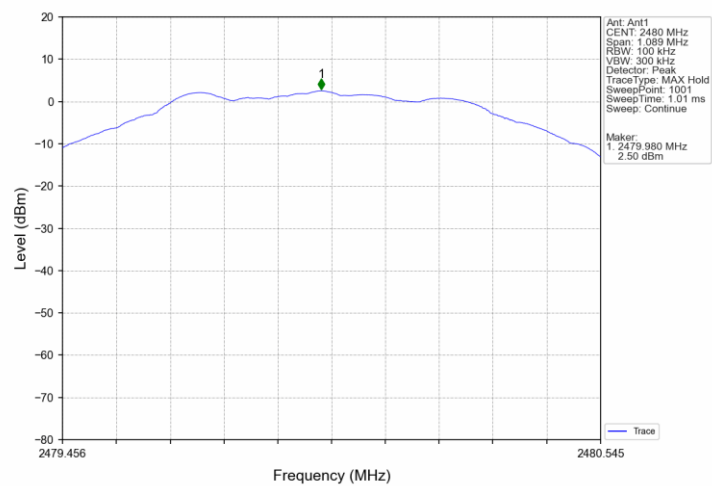
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.35	-15.65	Pass
		2440	1	3.67	-16.33	Pass
		2480	1	2.50	-17.50	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

Level of Reference:



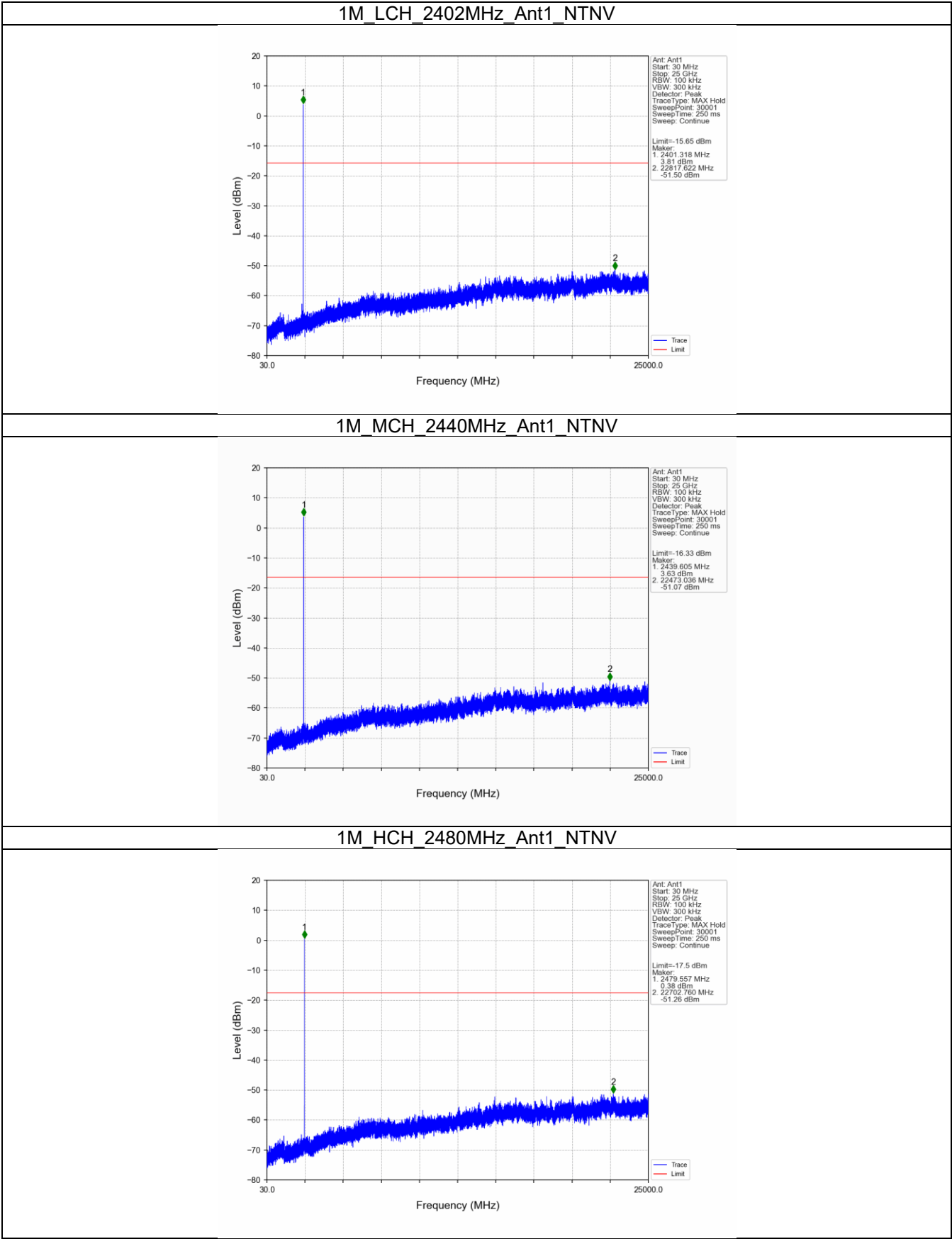


1M_HCH_2480MHz_Ant1_NTNV





Conducted spurious emissions:



8.6 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.

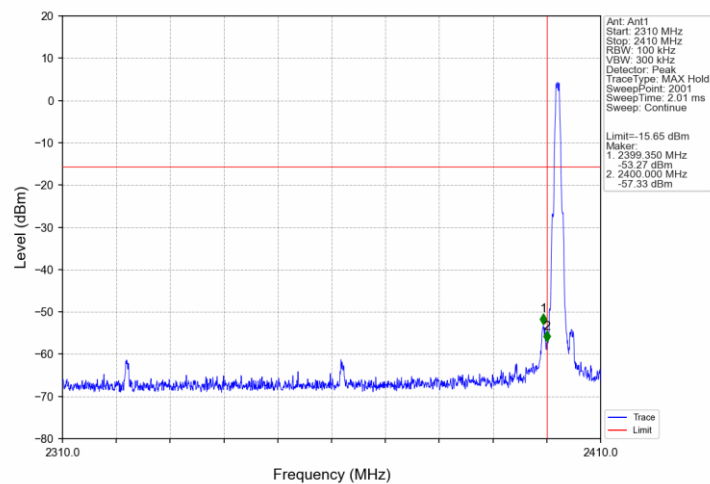
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

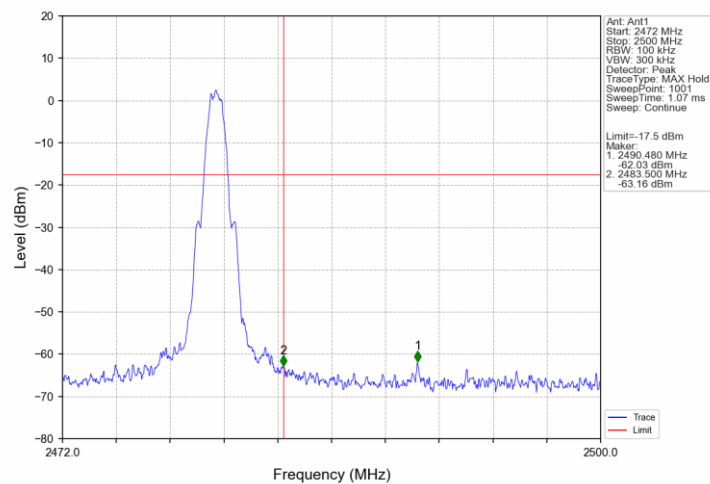
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.35	-15.65	Pass
		2480	1	2.50	-17.50	Pass



1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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

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

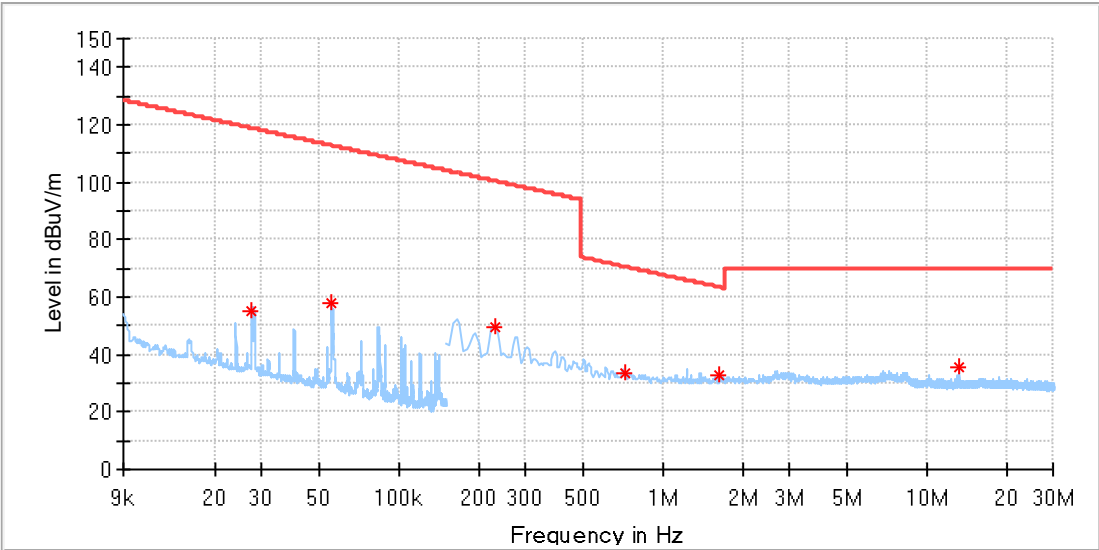


Spurious radiated emissions for transmitter

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 25 GHz” showed as below is the WORST CASE for all test modes and channels.

Transmitting spurious emissions (9kHz-30MHz)
BLE_1Mbps_Low Channel: 2402MHz (worst case)

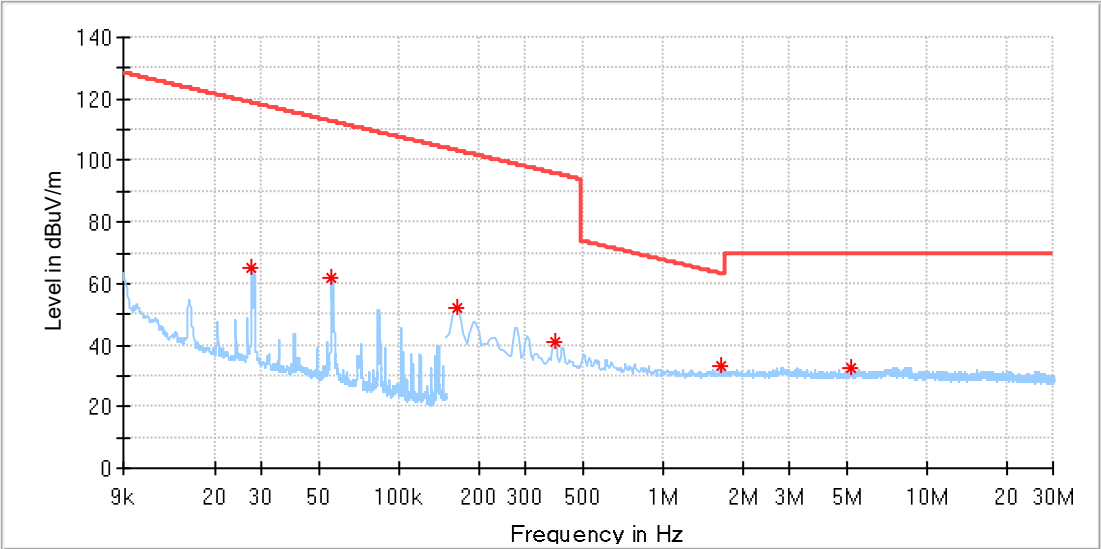


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027659	55.38	118.75	63.37	H	279.0	19.88
0.055436	57.73	112.72	54.98	H	157.0	19.92
0.229600	49.63	100.38	50.75	H	0.0	19.88
0.722125	33.70	70.44	36.74	H	24.0	19.93
1.642500	32.84	63.32	30.49	H	358.0	20.01
13.169575	35.29	69.50	34.21	H	82.0	20.04



Transmitting spurious emissions (9kHz-30MHz)
BLE_1Mbps_Low Channel: 2402MHz (worst case)

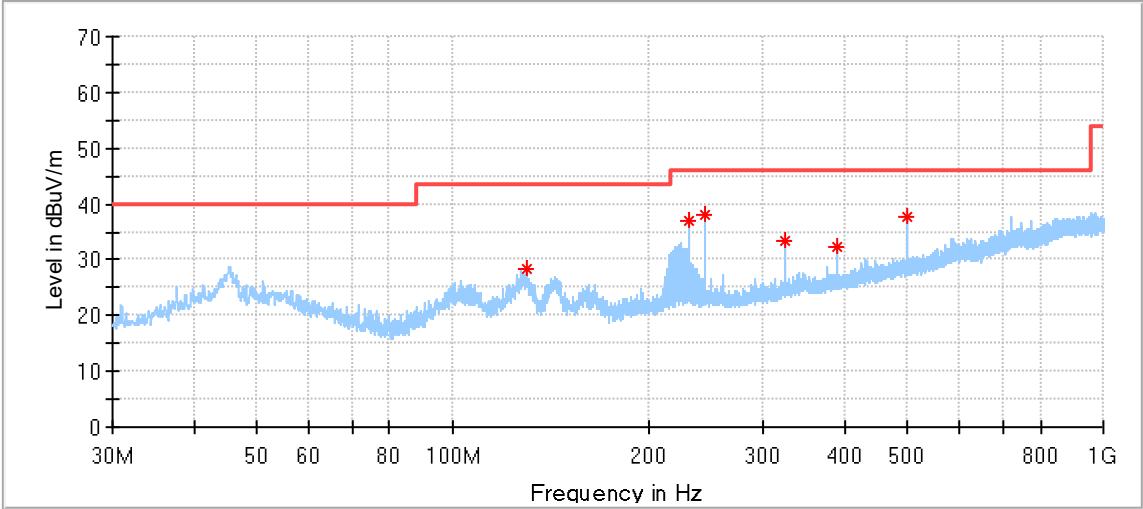


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027706	65.24	118.74	53.50	V	78.0	19.88
0.055483	61.74	112.71	50.97	V	251.0	19.92
0.164925	52.14	103.25	51.11	V	318.0	19.89
0.388800	40.74	95.81	55.07	V	349.0	19.90
1.667375	33.33	63.19	29.86	V	239.0	20.02
5.159825	32.65	69.50	36.85	V	17.0	20.16



Transmitting spurious emissions (30MHz-1000MHz)
BLE_1Mbps_Low Channel: 2402MHz (worst case)

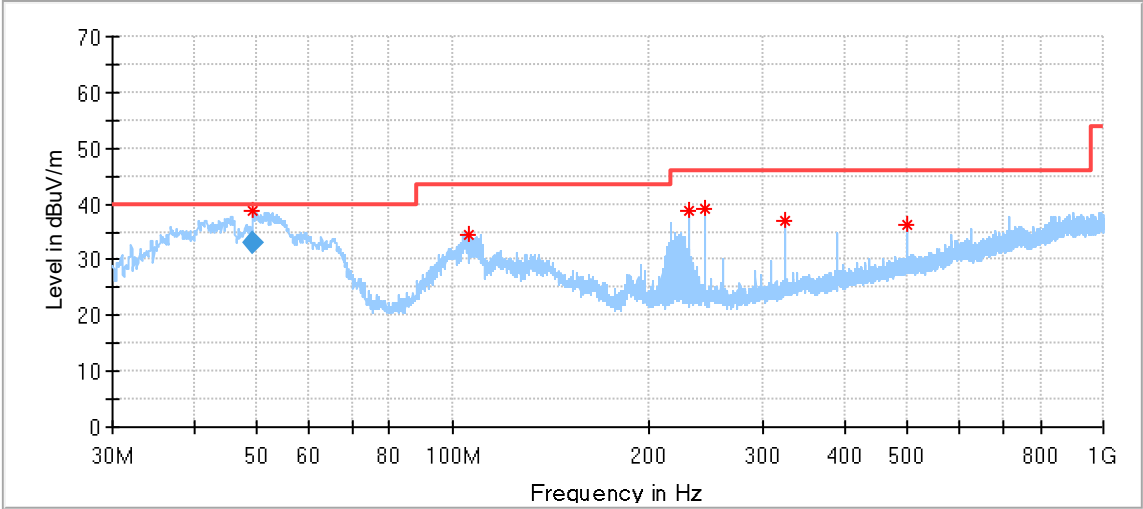


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
130.287222	28.36	43.50	15.14	200.0	H	332.0	13.19
230.520556	36.92	46.00	9.08	100.0	H	235.0	16.76
244.046667	37.99	46.00	8.01	100.0	H	243.0	17.51
324.987778	33.29	46.00	12.71	200.0	H	29.0	19.26
390.031667	32.42	46.00	13.58	100.0	H	109.0	20.94
500.018889	37.78	46.00	8.22	100.0	H	86.0	23.03



Transmitting spurious emissions (30MHz-1000MHz)
BLE_1Mbps_Low Channel: 2402MHz (worst case)



Critical_Freqs

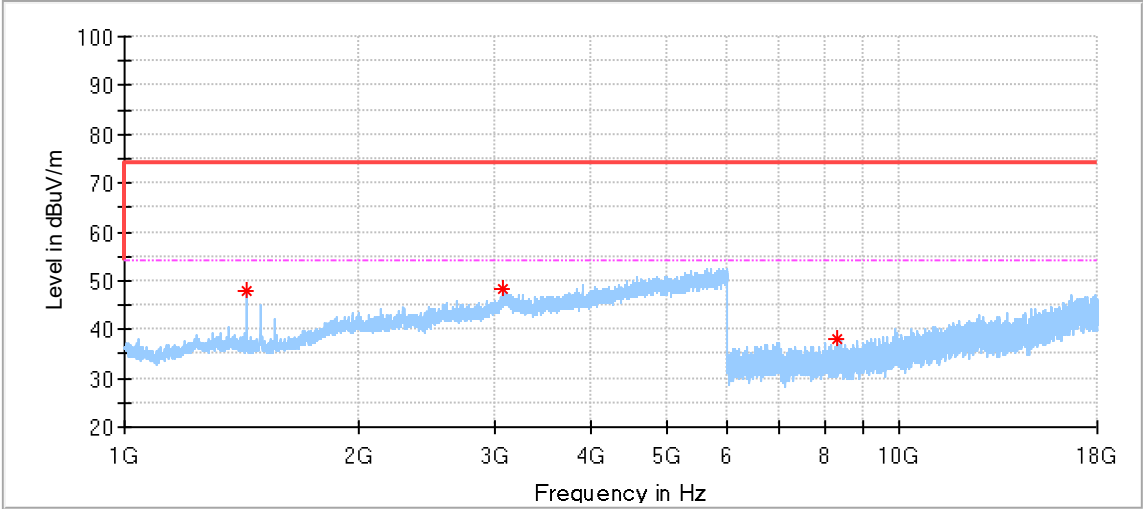
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.400000	38.60	40.00	1.40	100.0	V	292.0	18.13
105.606111	34.49	43.50	9.01	100.0	V	61.0	15.64
230.520556	38.65	46.00	7.35	100.0	V	179.0	16.76
244.100556	39.01	46.00	6.99	100.0	V	187.0	17.52
324.987778	37.09	46.00	8.91	200.0	V	205.0	19.26
500.018889	36.23	46.00	9.77	200.0	V	358.0	23.03

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.400000	33.10	40.00	6.90	100.0	V	292.0	18.13

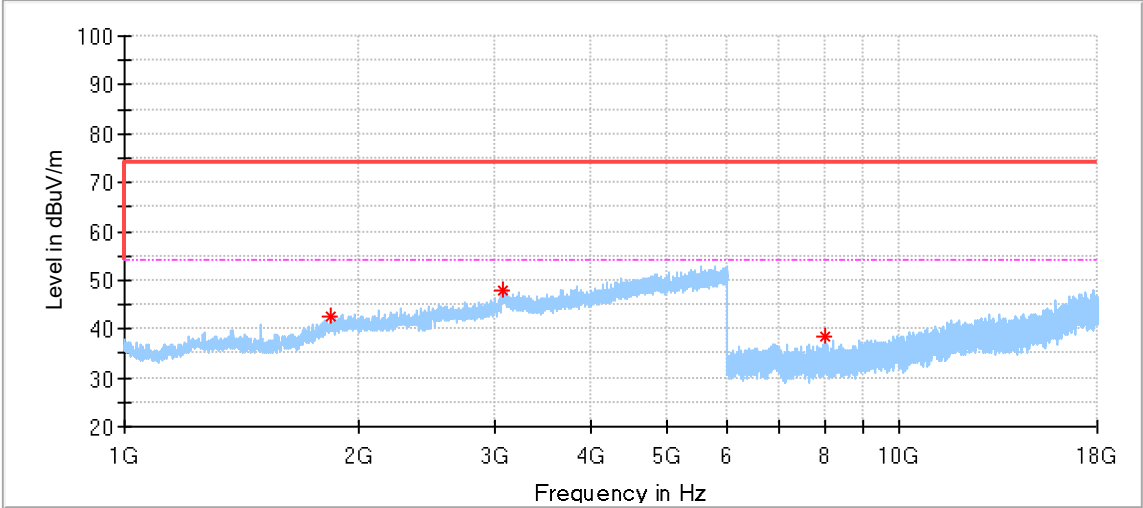


Transmitting spurious emissions (1000MHz-18000MHz)
BLE_1Mbps_Low Channel: 2402MHz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1439.500000	47.94	74.00	26.06	150.0	H	204.0	-7.60
3078.000000	48.22	74.00	25.78	150.0	H	144.0	2.19
8323.000000	38.13	74.00	35.87	150.0	H	228.0	10.56

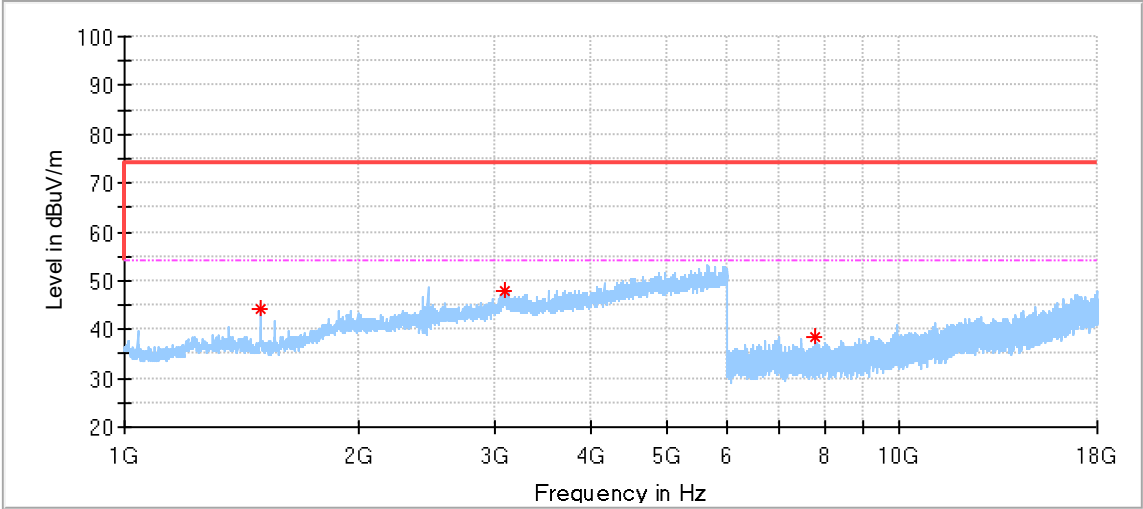


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1843.500000	42.57	74.00	31.43	150.0	V	123.0	-3.41
3076.500000	47.93	74.00	26.07	150.0	V	171.0	2.14
8021.500000	38.43	74.00	35.57	150.0	V	57.0	10.56

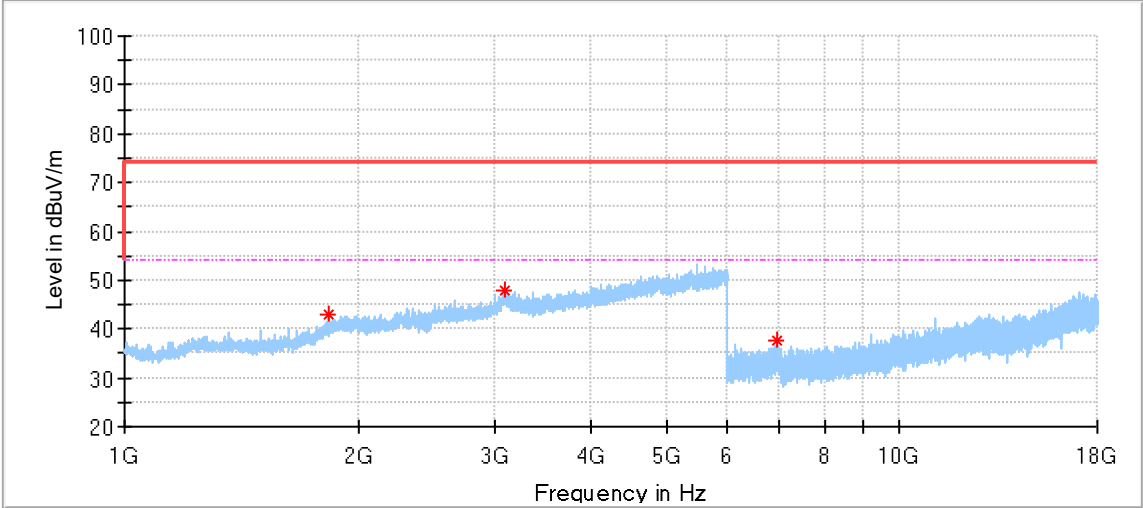


Transmitting spurious emissions (1000MHz-18000MHz)
BLE_1Mbps_Middle Channel: 2440MHz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1499.500000	44.20	74.00	29.80	150.0	H	75.0	-7.51
3100.500000	47.76	74.00	26.24	150.0	H	123.0	2.75
7802.500000	38.37	74.00	35.63	150.0	H	154.0	9.87

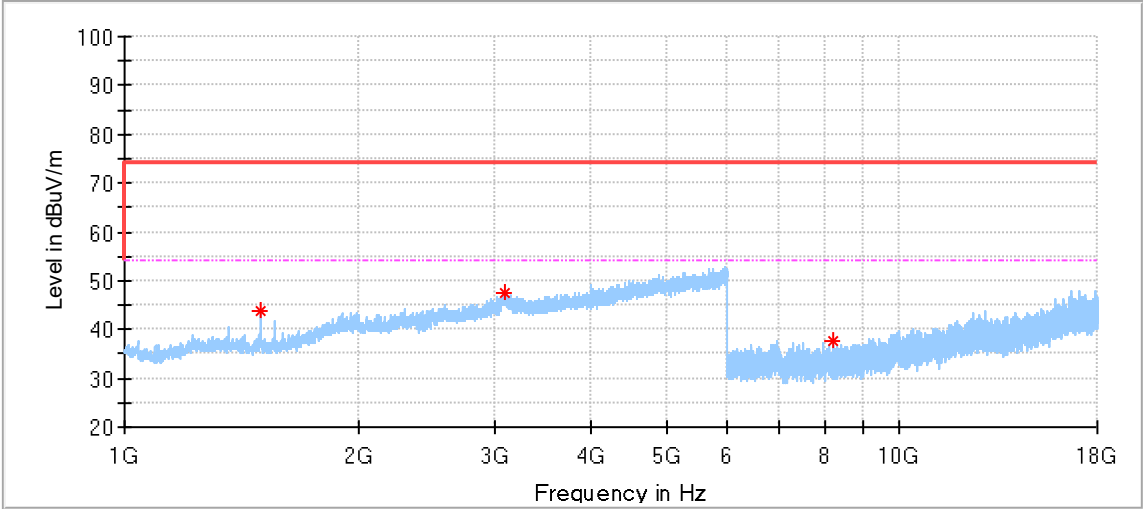


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1832.500000	42.83	74.00	31.17	150.0	V	48.0	-3.60
3100.000000	47.75	74.00	26.25	150.0	V	302.0	2.77
6943.000000	37.65	74.00	36.35	150.0	V	230.0	9.55

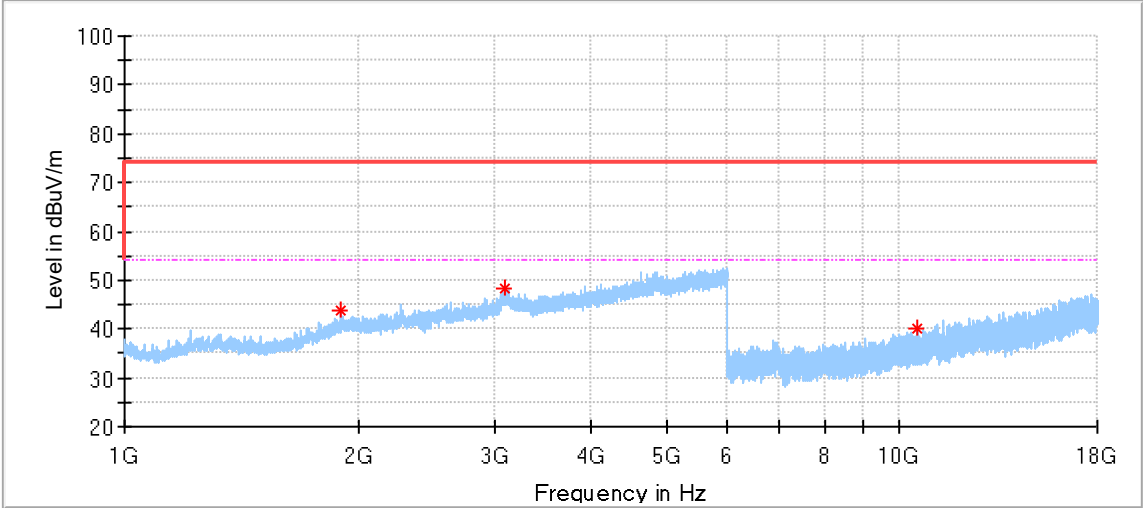


Transmitting spurious emissions (1000MHz-18000MHz)
BLE_1Mbps_High Channel: 2480MHz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1499.500000	43.91	74.00	30.09	150.0	H	60.0	-7.51
3087.000000	47.53	74.00	26.47	150.0	H	4.0	2.43
8224.000000	37.61	74.00	36.39	150.0	H	0.0	10.41

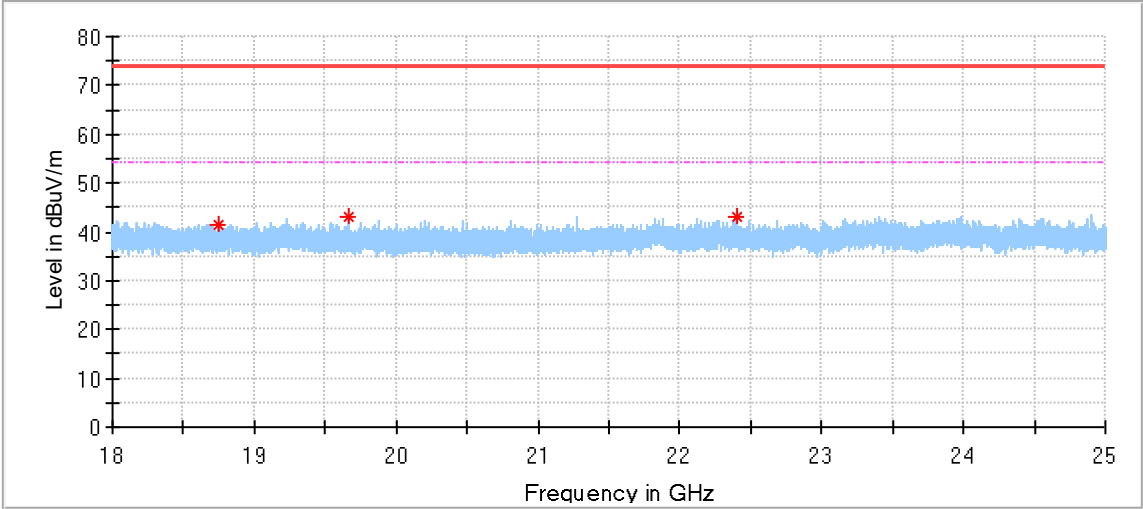


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1897.000000	43.82	74.00	30.18	150.0	V	264.0	-3.12
3100.000000	48.18	74.00	25.82	150.0	V	13.0	2.77
10549.000000	39.93	74.00	34.07	150.0	V	104.0	13.34

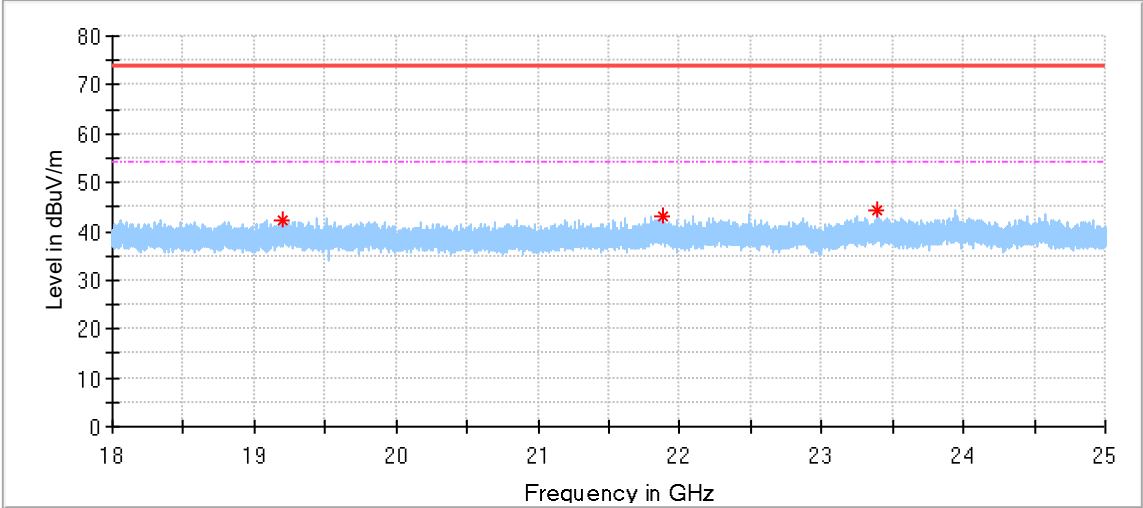


Transmitting spurious emissions (18GHz-25GHz)
BLE_1Mbps_Low Channel: 2402MHz (worst case)



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18745.937500	41.33	74.00	32.67	150.0	H	287.0	-4.47
19662.937500	43.21	74.00	30.79	150.0	H	262.0	-3.49
22398.406250	43.10	74.00	30.90	150.0	H	137.0	-0.36

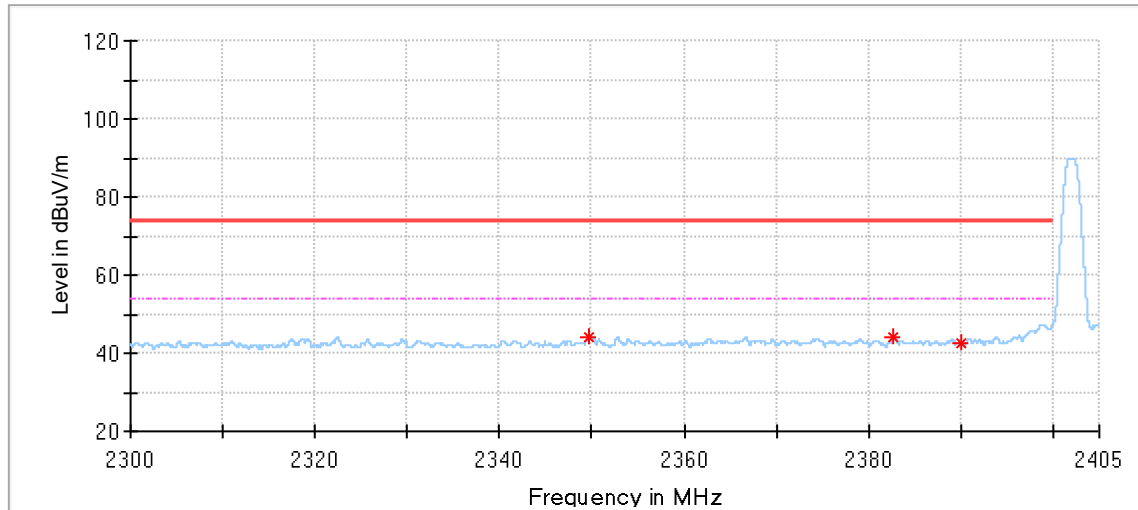


Critical_Freqs

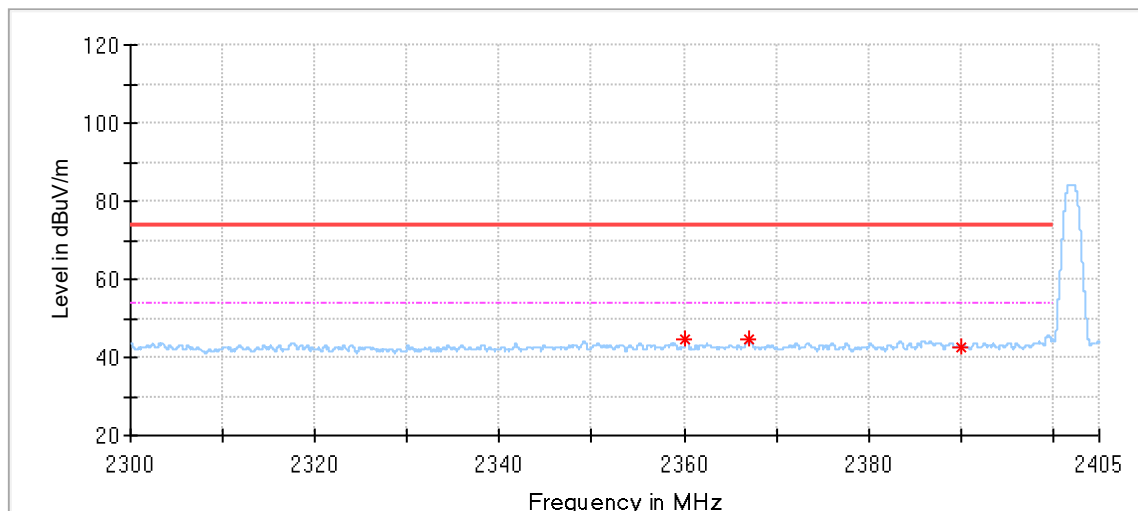
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19192.625000	42.27	74.00	31.73	150.0	V	12.0	-3.95
21878.000000	43.24	74.00	30.76	150.0	V	318.0	-0.73
23396.125000	44.42	74.00	29.58	150.0	V	129.0	0.22

Band edge emission

BLE_1Mbps_Low Channel: 2402MHz

**Critical_Freqs**

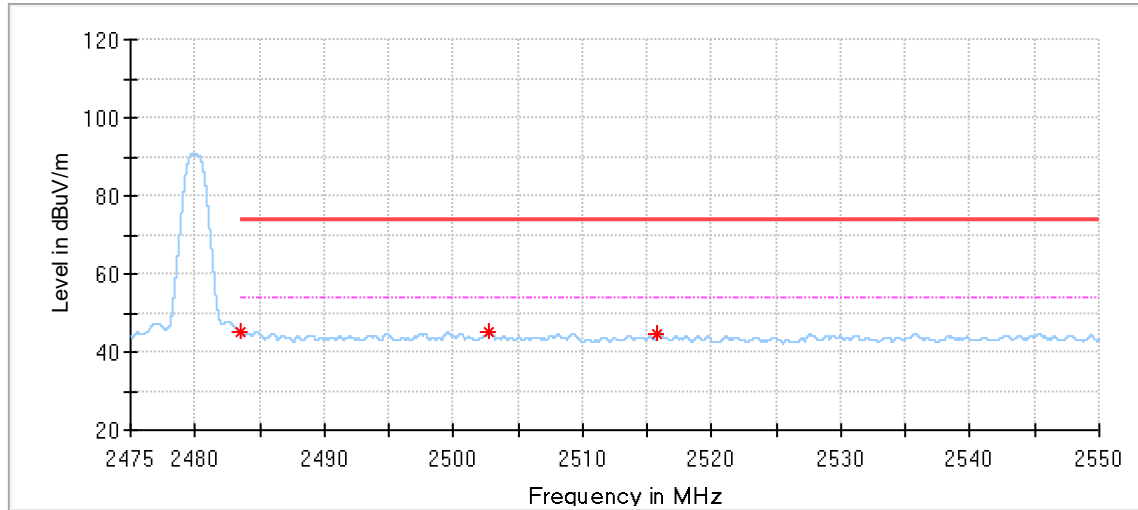
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.749000	44.20	74.00	29.80	150.0	H	228.0	-2.43
2382.740000	44.08	74.00	29.92	150.0	H	320.0	-2.04
2389.995500	42.62	74.00	31.38	150.0	H	76.0	-1.92

**Critical_Freqs**

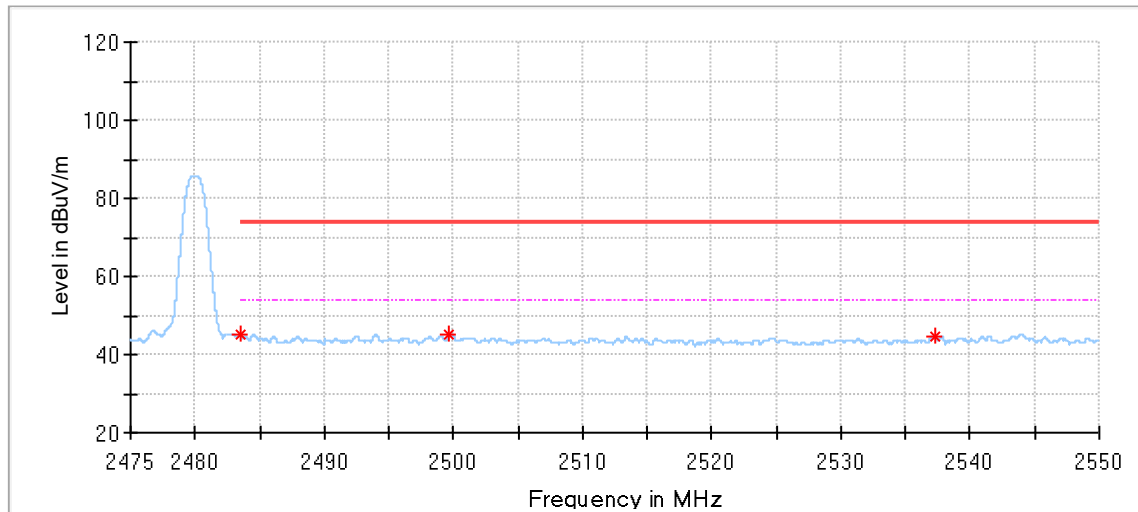
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2360.123000	44.65	74.00	29.35	150.0	V	181.0	-2.34
2367.084500	44.42	74.00	29.58	150.0	V	333.0	-2.26
2389.985000	42.63	74.00	31.37	150.0	V	14.0	-1.92

Band edge emission

BLE_1Mbps_High Channel: 2480MHz

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.527500	45.08	74.00	28.92	150.0	H	149.0	-1.45
2502.712500	44.93	74.00	29.07	150.0	H	82.0	-1.47
2515.822500	44.67	74.00	29.33	150.0	H	82.0	-1.44

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.535000	44.90	74.00	29.10	150.0	V	192.0	-1.45
2499.682500	45.00	74.00	29.00	150.0	V	91.0	-1.48
2537.280000	44.56	74.00	29.44	150.0	V	0.0	-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)

9 Test Equipment List

Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	1	2026-4-25
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	1	2026-4-25
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2026-4-19
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.0 2	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2027-10-07

Radiated Emission Test, 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	9X6X6	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.0 2	N/A	N/A

Radiated Emission Test, 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	----	----	----
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2026-3-10
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
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 40A	68-4-29-14-002	100432	1	2026-7-7
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	Version10.35.0 2	N/A	N/A

RF Conducted Test

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	2027-10-07



10 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 shielding room (68-4-90-19-004) 150kHz-30MHz (for test using AMN ENV432)	3.26dB
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: 4.79dB; Vertical: 5.86dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.37dB; Vertical: 5.37dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) above 18000MHz	Horizontal: 3.14dB; Vertical: 3.12dB
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

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 TEST REPORT---