

Certificate of Test

NCT CO., LTD.

211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do,
18511, Republic of Korea
(Tel: +82-31-323-6070 / Fax: +82-31-323-6071)

Report No.:
NW2411-F001

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**1. Client**

- Name : moon moon
- Address : 5floor, eunha building, 229, Chuncheon-ro, Chuncheon-si, Gangwon-do, 24259, Republic of Korea
- Date of Receipt : 2024-10-28

2. Use of Report : FCC Certification**3. Test Sample**

- Description / Model : Smart Bottle / STARHALO Terra
- FCC ID : 2BLXMTERRA

4. Place of Test : ☒ Fixed test ☐ Field test


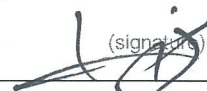
(Address:211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Republic of Korea)

5. Date of Test : 2024-11-02 ~ 2024-11-07**6. Test method used : FCC Part 15 Subpart C 15.247****7. Testing Environment :**

- Temperature: (25 ± 5) °C, Humidity: Less than 75 % R.H.
- * Unless specified otherwise in the individual methods, the tests were conducted on ambient conditions.

8. Test Results : Refer to the test results

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This Test Report cannot be reproduced, except in full
This test report is not related to KOLAS recognition and RRA designation.

Affirmation	Tested by Jiwon, Hong 	Technical Manager Il-shin, Kim 
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Nov 08, 2024

NCT CO., LTD.



Contact us at report@nct.re.kr to confirm the authenticity of this report

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APPENDIX

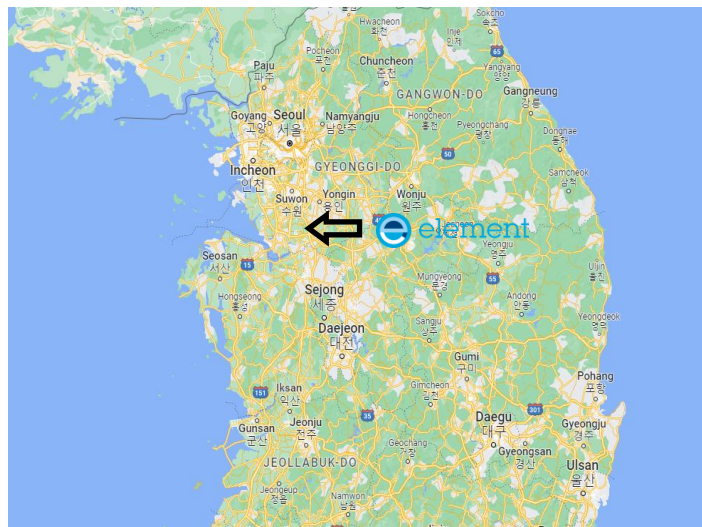
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1. General Information's

1.1 Test Performed

Laboratory : NCT Co., Ltd.
 Address : 211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Korea
 Telephone : +82-31-323-6070
 Facsimile : +82-31-323-6071
 FCC Designation No. : KR0166
 FCC Registration Number : 409631

1.2 Site Map



Test Report No.: NW2411-F001

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2. Information's about Test Item

2.1 Applicant Information

Company name : moon moon
 Address : 5floor, eunha building, 229, Chuncheon-ro, Chuncheon-si, Gangwon-do,
 24259, Republic of Korea
 Telephone : +82-10-4296-8296
 Facsimile : -

2.2 Equipment Information

Equipment description	Smart Bottle
Model and/or type reference	STARHALO Terra
Additional model name	-
Serial number	Prototype
EUT condition	Pre-production, not damaged
Number of channels	40 ch
Modulation type	GFSK
EUT power source	DC 3.70 V
Hardware version	V 1.0
Software version	V 0.62
Test software name(version)	Tera Term (version 4.96)

2.3 Antenna Information

Type	Model name	Gain	Note.
Chip antenna	AA055U	2.5 dBi	-

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2.4 Tested Frequency

Bluetooth LE 1M	Low frequency	Middle frequency	High frequency
Frequency (MHz)	2 402	2 440	2 480

2.5 Used Test Software Setting Value

Test Mode	Setting Item
	Power
Bluetooth LE 1M	2 (0 dBm)

3. Test Report

3.1 Test Summary

Applied	Test Items	FCC Clause	Test Condition	Result
<input checked="" type="checkbox"/>	Antenna Requirement	15.203 15.247(b)	-	C
<input checked="" type="checkbox"/>	6 dB Bandwidth	15.247(a)	Conducted	C
<input checked="" type="checkbox"/>	Maximum Peak Output Power	15.247(b)		C
<input checked="" type="checkbox"/>	Peak Power Spectral Density	15.247(e)		C
<input checked="" type="checkbox"/>	Conducted Spurious Emission	15.247(d)		C
<input checked="" type="checkbox"/>	Radiated Spurious Emission	15.247(d) 15.205(a) 15.209(a)	Radiated	C
<input checked="" type="checkbox"/>	Conducted Emissions	15.207	AC Line Conducted	N/A ^{note3}

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: This test item was performed in each axis and the worst case data was reported.

Note 3: Bluetooth mode does not work while charging.

The sample was tested according to the following specification: ANSI C63.10:2020

Compliance was determined by specification limits of the applicable standard according to customer requirements.

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3.2 Test Report Version

Test Report No.	Date	Description
NW2411-F001	2024-11-08	Initial issue

3.3 Transmitter Requirements

3.3.1 Antenna Requirement

According to §15.203 An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

According to §15.247(b)(4) the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.1.1 Result

Complies

(The transmitter has a Chip antenna. The directional peak gain of the antenna is 2.5 dBi.)

3.3.2 6 dB Bandwidth

3.3.2.1 Test Setup

Refer to the APPENDIX I.

3.3.2.2 Limit

The minimum permissible 6 dB bandwidth is 500 kHz.

3.3.2.3 Test Procedure

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the EUT's antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = Max Hold.
5. Sweep = Auto
6. Allow the trace to stabilize.
7. Option 1 - Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Option 2 - The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

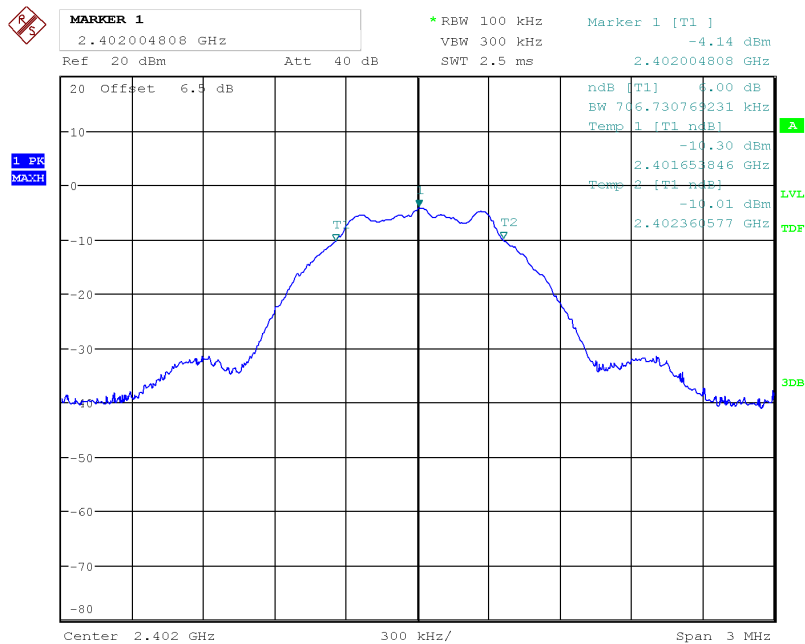
3.3.2.4 Test Result

Test Mode	Test Frequency	6 dB Bandwidth (MHz)
Bluetooth LE 1M	Low	0.707
	Middle	0.712
	High	0.712

3.3.2.5 Test Plot

BLE 1M_ Low frequency

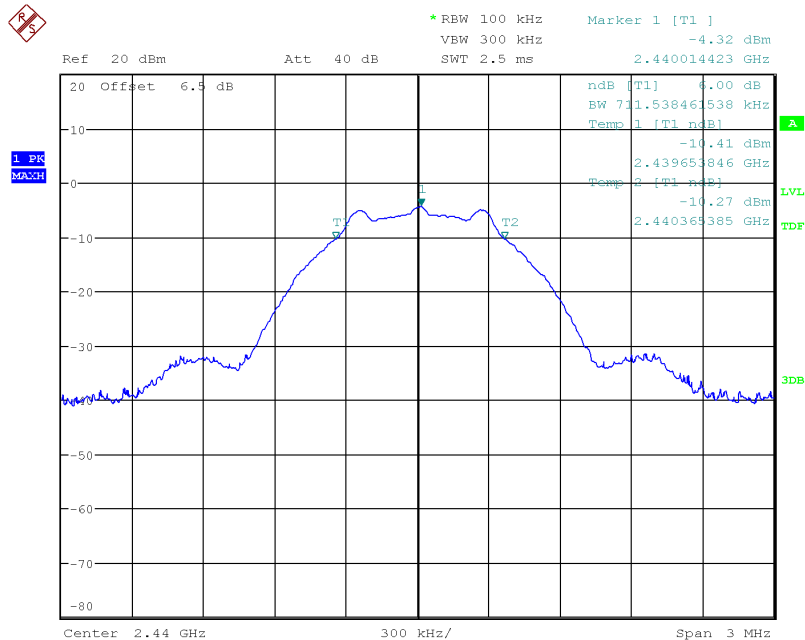
6 dB Bandwidth



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BLE 1M_ Middle frequency

6 dB Bandwidth



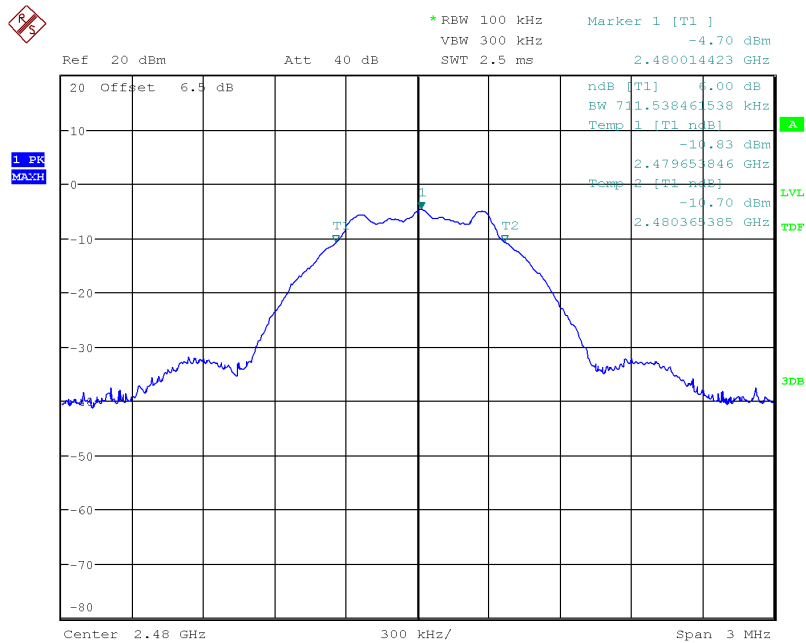
Date: 2.NOV.2024 10:02:35

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BLE 1M_ High frequency

6 dB Bandwidth



Date: 2.NOV.2024 10:03:35

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3.3.3 Maximum Peak Output Power

3.3.3.1 Test Setup

Refer to the APPENDIX I.

3.3.3.2 Limit

The maximum permissible conducted output power is 1 Watt.

3.3.3.3 Test Procedure

A transmitter antenna terminal of EUT is connected to the input of a spectrum analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

1. Set the RBW \geq DTS bandwidth
2. Set VBW $\geq 3 \times$ RBW
3. Set span $\geq 3 \times$ RBW.
4. Sweep time = auto couple
5. Detector = peak
6. Trace mode = max hold
7. Allow trace to fully stabilize
8. Use peak search function to determine the peak amplitude level.

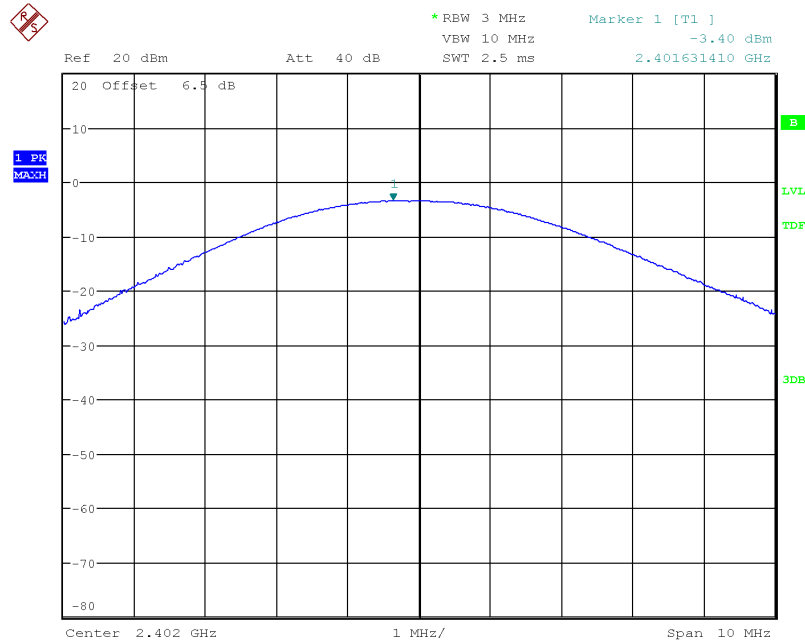
3.3.3.4 Test Result

Test Mode	Test Frequency	Peak Output Power	
		dBm	mW
Bluetooth LE 1M	Low	-3.40	0.46
	Middle	-3.52	0.44
	High	-3.99	0.40

3.3.3.5 Test Plot

BLE 1M_ Low frequency

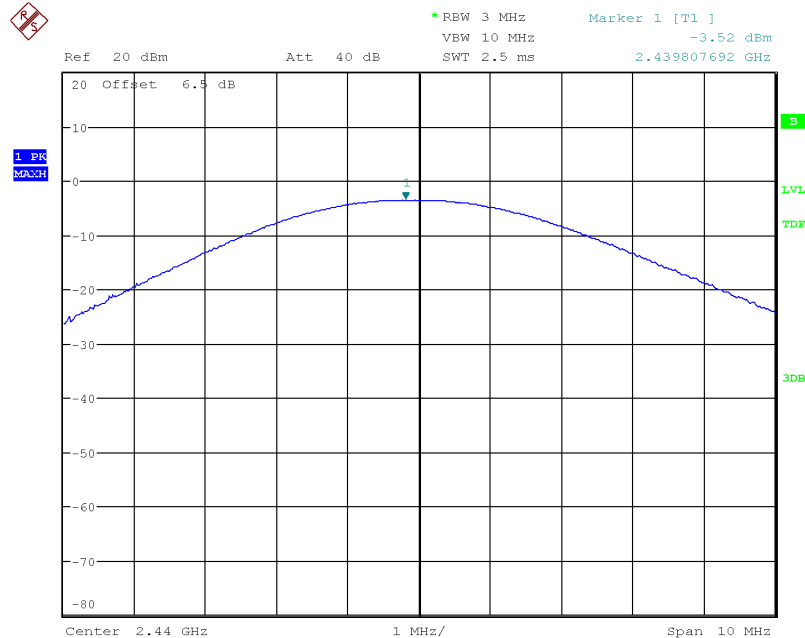
Maximum Peak Output Power



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BLE 1M_ Middle frequency

Maximum Peak Output Power



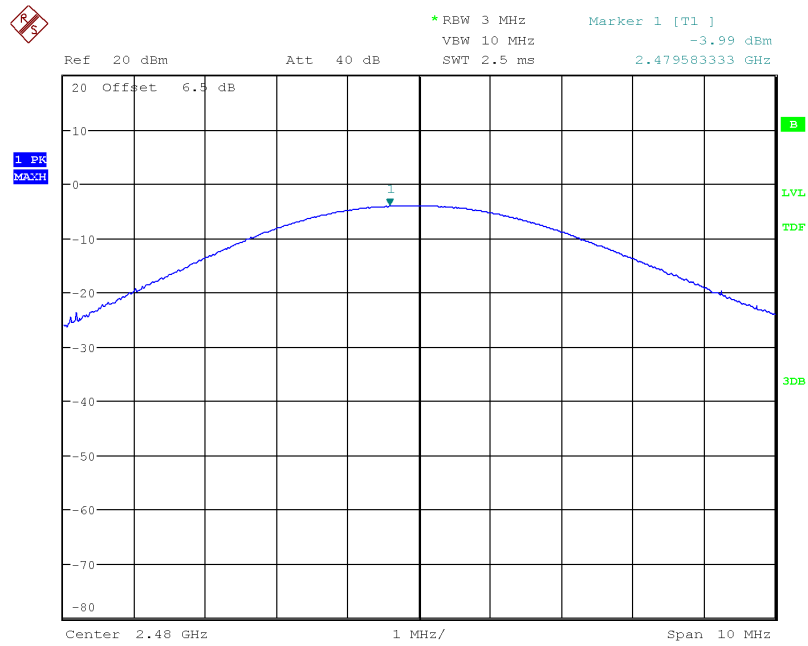
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BLE 1M_ High frequency

Maximum Peak Output Power



Date: 2.NOV.2024 10:36:32

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3.3.4 Peak Power Spectral Density

3.3.4.1 Test Setup

Refer to the APPENDIX I.

3.3.4.2 Limit

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

3.3.4.3 Test Procedure

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW : $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = Peak.
6. Sweep time = Auto
7. Trace mode = Max Hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

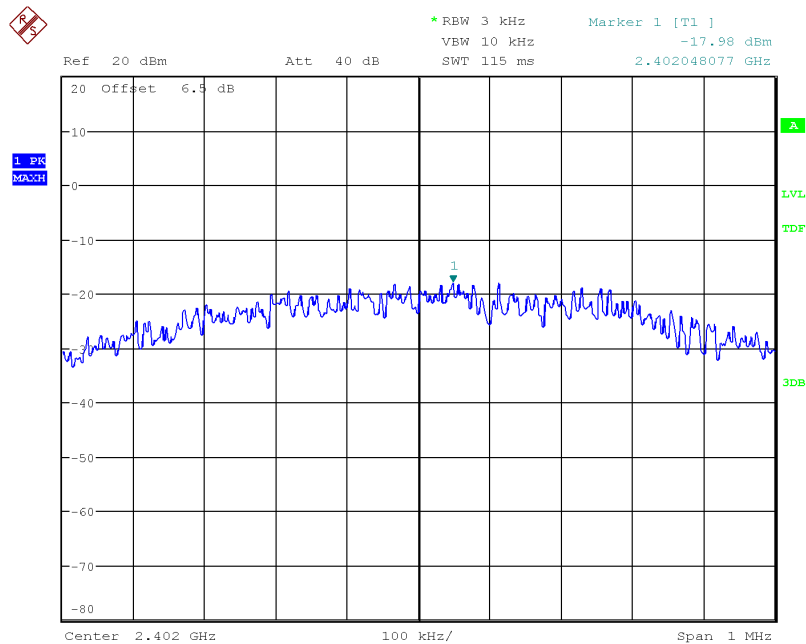
3.3.4.4 Test Result

Test Mode	Test Frequency	Peak Power Spectral Density (dBm)
Bluetooth LE 1M	Low	-17.98
	Middle	-17.87
	High	-17.79

3.3.4.5 Test Plot

BLE 1M _ Low frequency

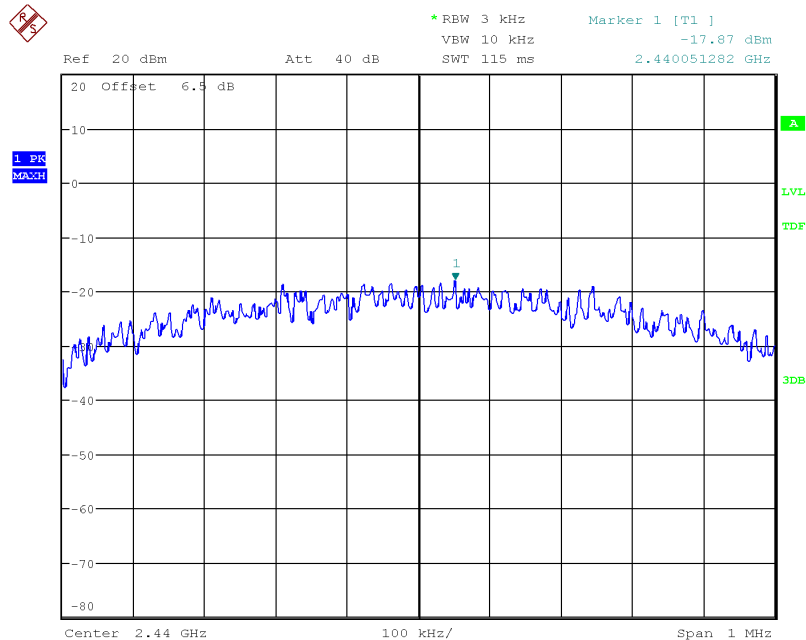
Peak Power Spectral Density



Date: 2.NOV.2024 10:15:52

BLE 1M _ Middle frequency

Peak Power Spectral Density



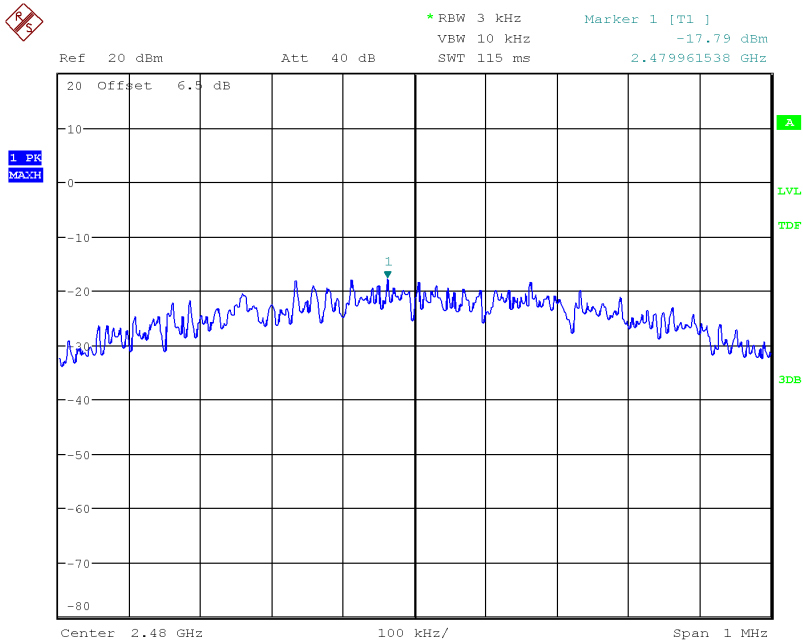
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BLE 1M _ High frequency

Peak Power Spectral Density



Date: 2.NOV.2024 10:17:00

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3.3.5 TX Radiated Spurious Emission and Conducted Spurious Emission

3.3.5.1 Test Setup

Refer to the APPENDIX I.

3.3.5.2 Limit

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see section §15.205(c))

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

According to § 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525 25	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	156.7 - 156.9	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	162.012 5 - 167.17	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	240 - 285	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	322 - 335.4	3 600 - 4 400	Above 38.6
13.36 - 13.41			

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

3.3.5.3 Test Procedure for Radiated Spurious Emission

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 1 or 3 meter away from the interference-receiving antenna.
3. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.
4. The antenna is a Broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
(The EUT was pre-tested with three axes (X, Y, Z) and the final test was performed at the worst case.)
6. Repeat above procedures until the measurements for all frequencies are complete

Measurement Instrument Setting

1. Frequency Range: Below 1 GHz
RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak
2. Frequency Range: Above 1 GHz
 - Peak Measurement
RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto,
Trace mode = Max Hold until the trace stabilizes
 - Average Measurement
RBW = 1 MHz, VBW = 3 MHz, Detector = RMS (Number of points $\geq 2 \times \text{Span} / \text{RBW}$),
Trace Mode = Average (Averaging type = power(i.e. RMS)), Sweep Time = Auto,
Sweep Count = at least 100 traces

-A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
- 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

3.3.5.4 Test Procedure for Band-edge of Conducted Spurious Emission

3.3.5.4.1 Reference Level Measurement

Establish a reference level by using the following procedure:

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max-hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum PSD level.

3.3.5.4.2 Emissions Level Measurement

1. Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep time = No faster than coupled (auto) time.
6. Trace mode = max-hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.3.5.4.3 Conducted Spurious Emissions

Set the spectrum analyzer as follows:

1. 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.
2. RBW = 100 kHz
3. VBW $\geq 3 \times \text{RBW}$
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold
7. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
8. Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

3.3.5.5 Test Result

Below 1 GHz Data

- Low frequency_Worst case

Test Condition		Frequency (MHz)	Detector	Pol (V/H)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
NT	NV	63.95	QP	V	44.86	-24.60	20.26	40.00	19.74

Above 1 GHz Data

- ◆ Low frequency_BLE 1M

Frequency	Reading	Pol.	Factor (dB)	DCF (dB)	Limits	Result	Margin
	(dBuV/m)				(dBuV/m)	(dBuV/m)	(dB)
	(MHz)				AV / Peak	AV / Peak	AV / Peak
			Not detected				

- ◆ Middle frequency_BLE 1M

Middle frequency - SEE FM						
Frequency	Reading	Pol.	Factor (dB)	Limits	Result	Margin
	(dBuV/m)			(dBuV/m)	(dBuV/m)	(dB)
(MHz)	AV / Peak			AV / Peak	AV / Peak	AV / Peak
			Not detected			

- ◆ High frequency_BLE 1M

Frequency	Reading	Pol.	Factor (dB)	Limits	Result	Margin
	(dBuV/m)			(dBuV/m)	(dBuV/m)	(dB)
	AV / Peak			AV / Peak	AV / Peak	AV / Peak
(MHz)						
			Not detected			

Note 1: The radiated emissions were investigated 9 kHz to 26.5 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

Note 2: DCF(Duty Cycle Factor)

- Ton = 2.144 ms / Toff = 0.354 ms

- Duty Cycle = Ton / (Ton+Toff) = 2.120 / (2.120+0.113) = 0.950

- DCF = 10 x log(1/Duty Cycle) dB = 10 x log(1/0.950) dB = 0.22 dB

Note 3: Sample Calculation.

Margin = Limit – Result / Peak Result = Peak Reading + TF / Average Result = Average Reading + TF + DCF

TF = Ant factor + Cable Loss + Filter Loss – Amp Gain

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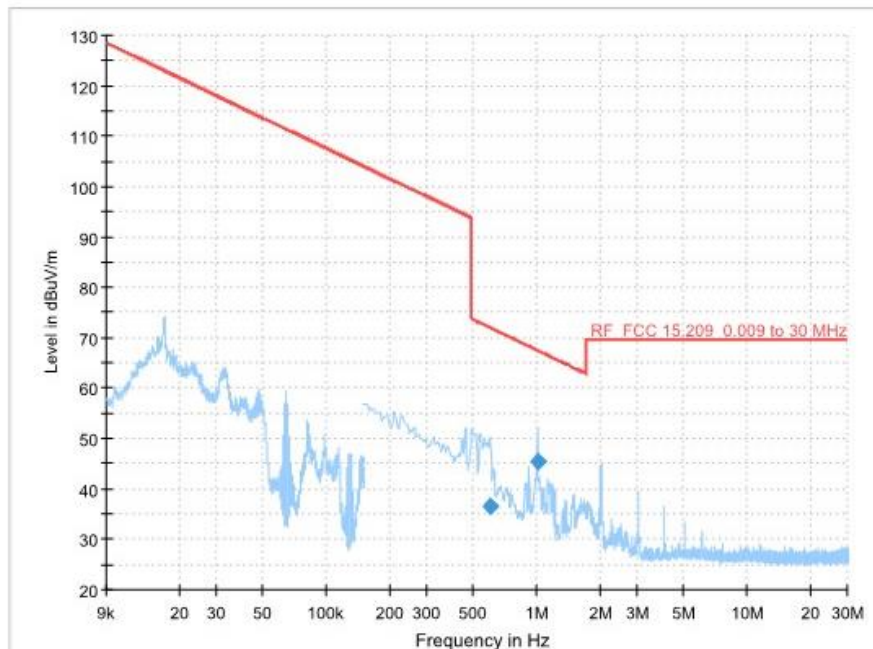
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3.3.5.6 Radiated Test Plot

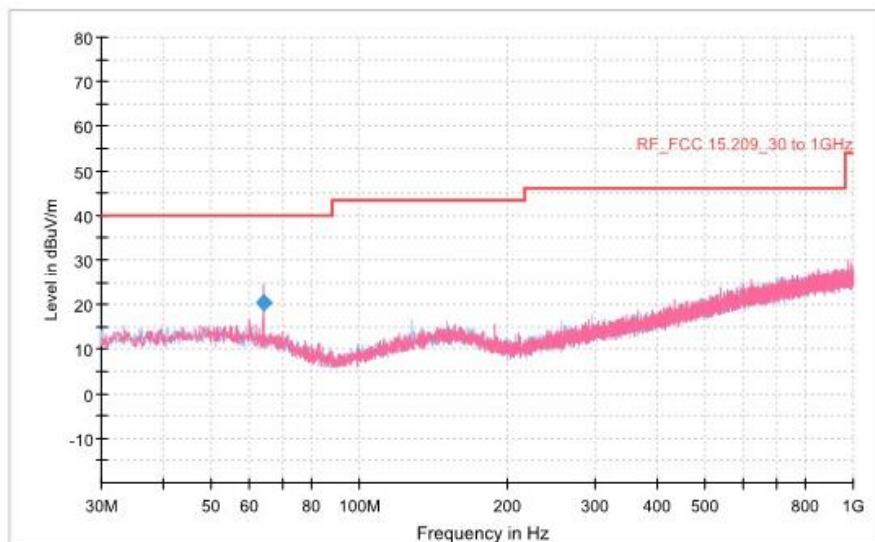
Below 30 MHz

Worst case



Below 1 GHz

Worst case

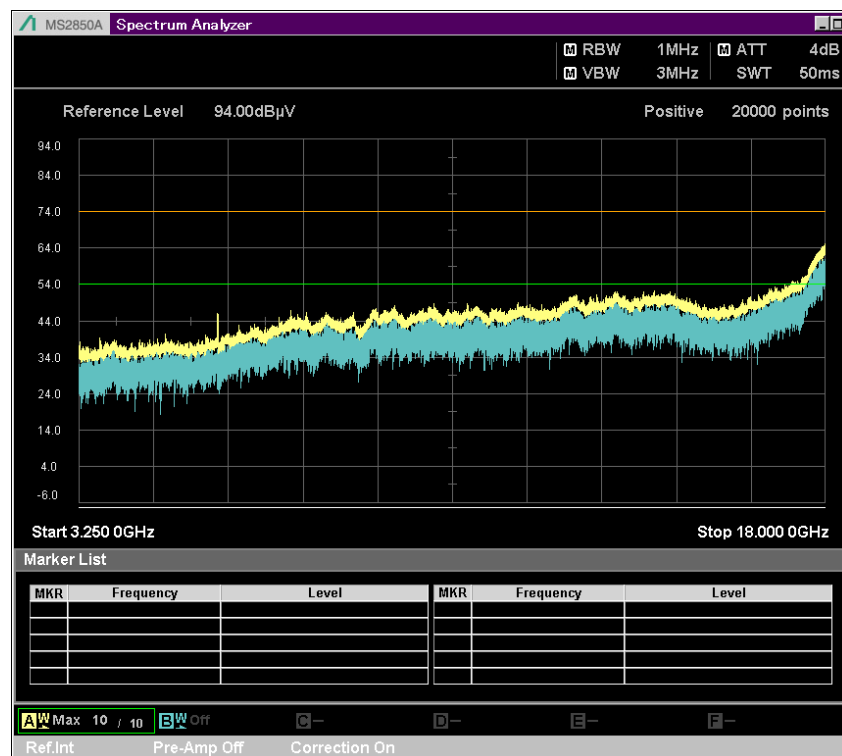
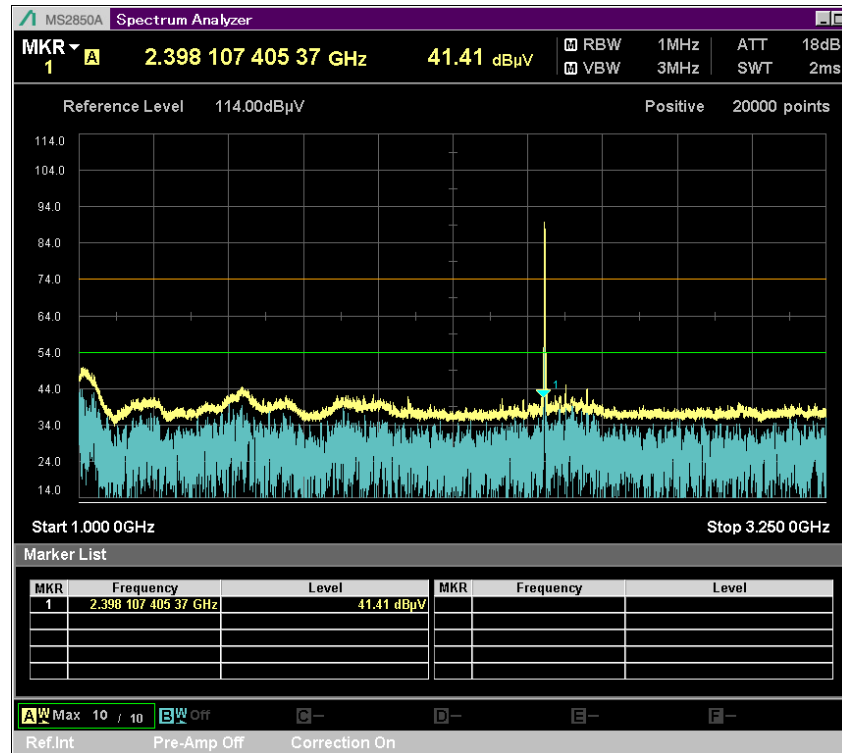


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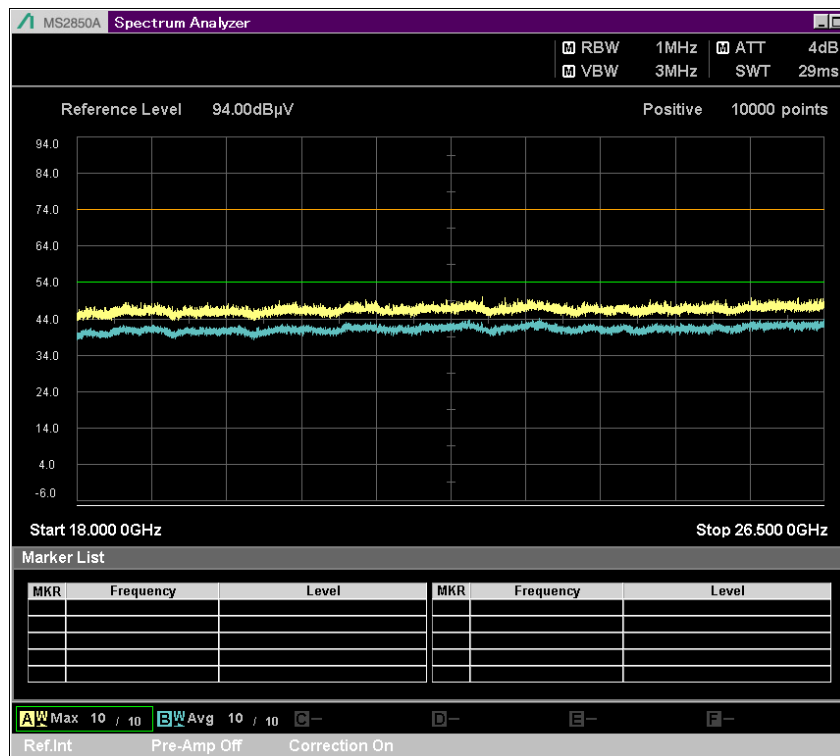
Above 1 GHz

Worst case



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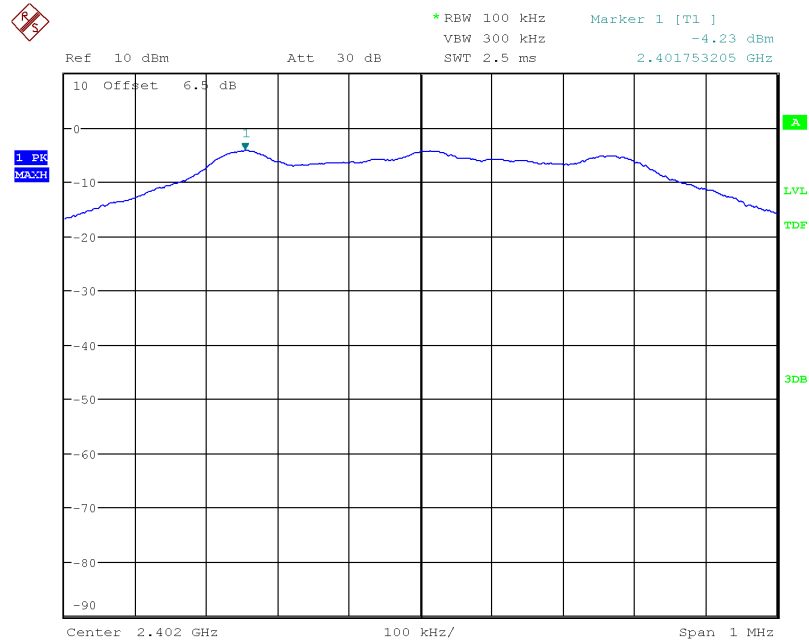
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3.3.5.7 Conducted Test Plot

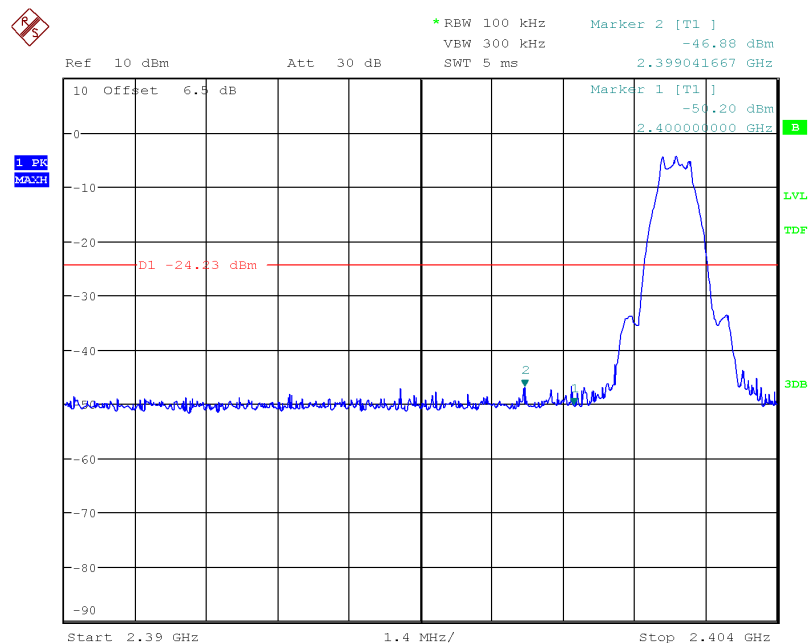
Low Frequency

Reference



Date: 2.NOV.2024 10:06:46

Bandedge

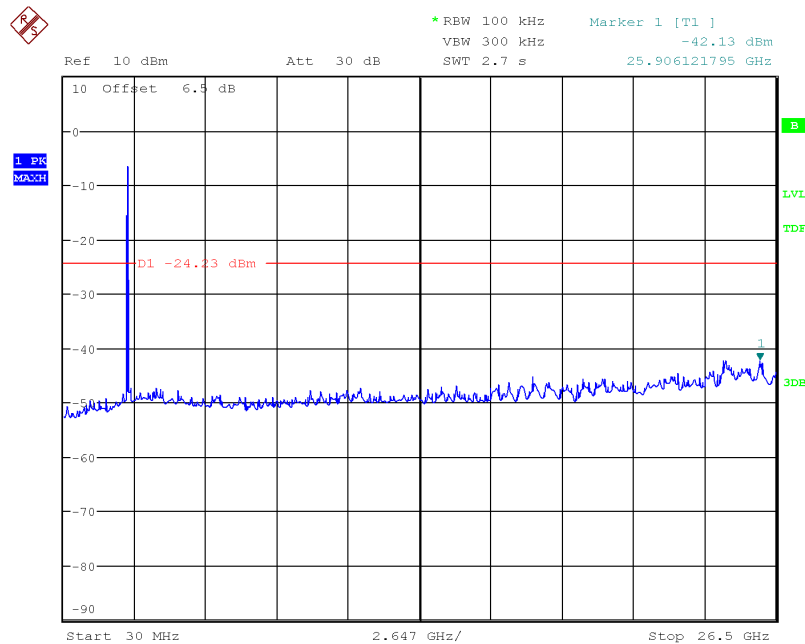


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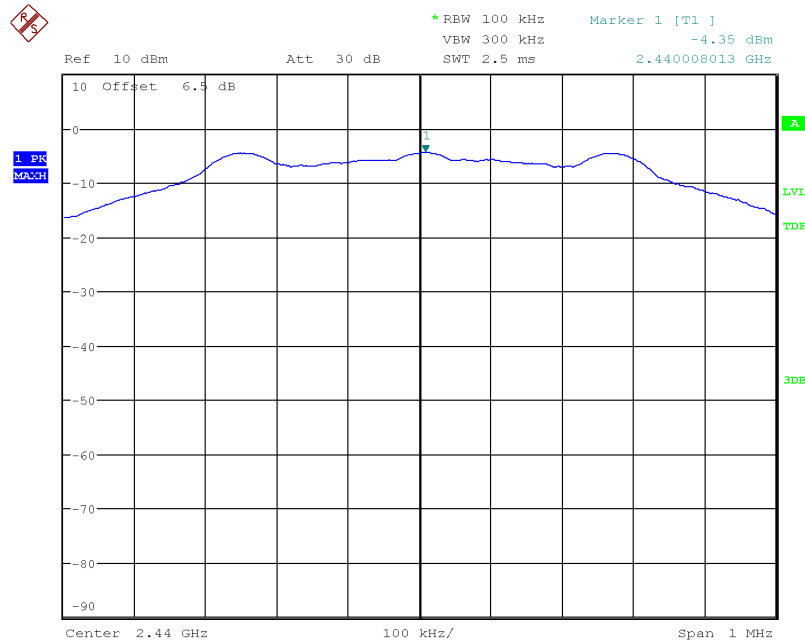
Spurious



Date: 2.NOV.2024 10:47:12

Middle frequency

Reference

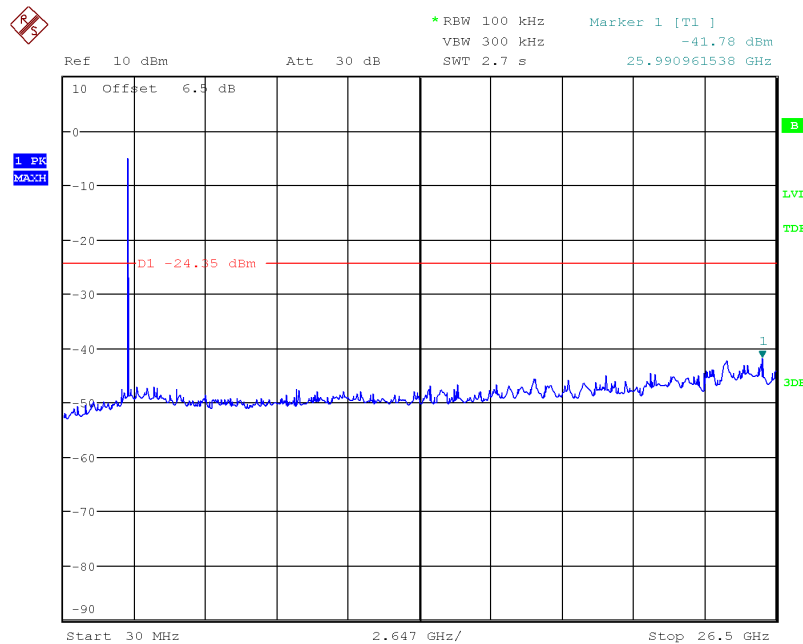


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Test Report No.: NW2411-F001

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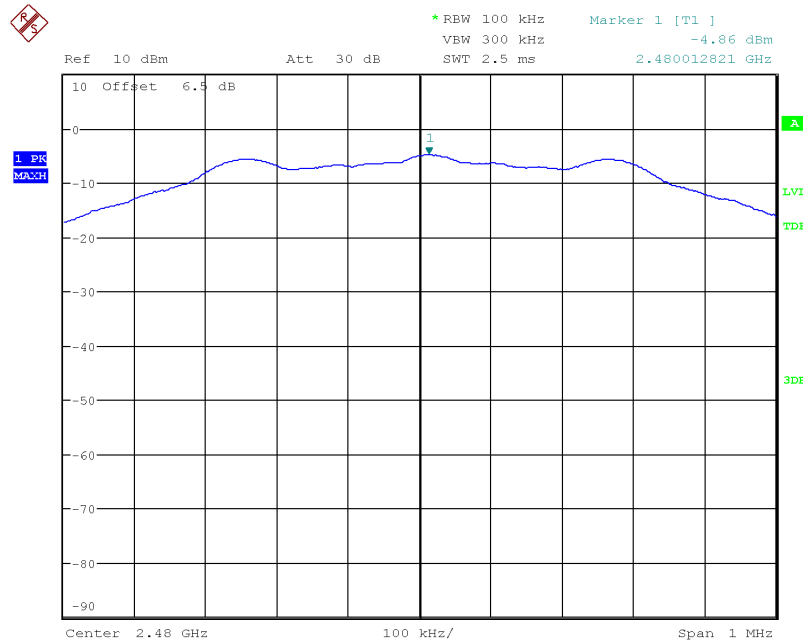
Spurious



Date: 2.NOV.2024 10:48:49

High frequency

Reference

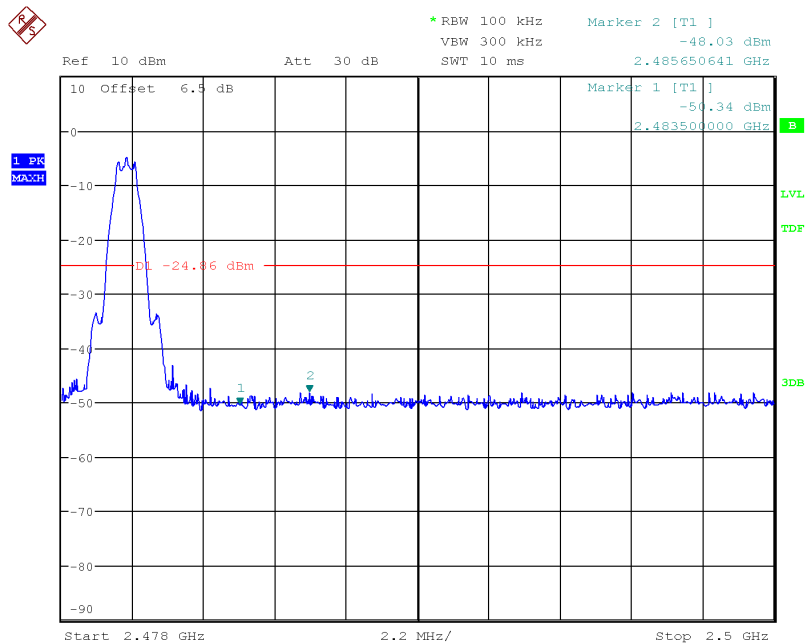


Date: 2.NOV.2024 10:12:15

Test Report No.: NW2411-F001

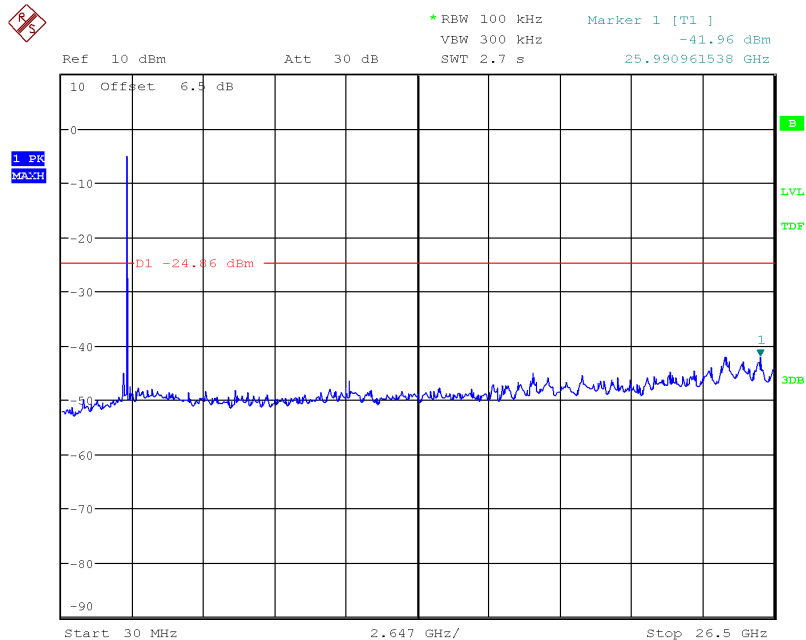
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Bandedge



Date: 2.NOV.2024 10:13:15

Spurious

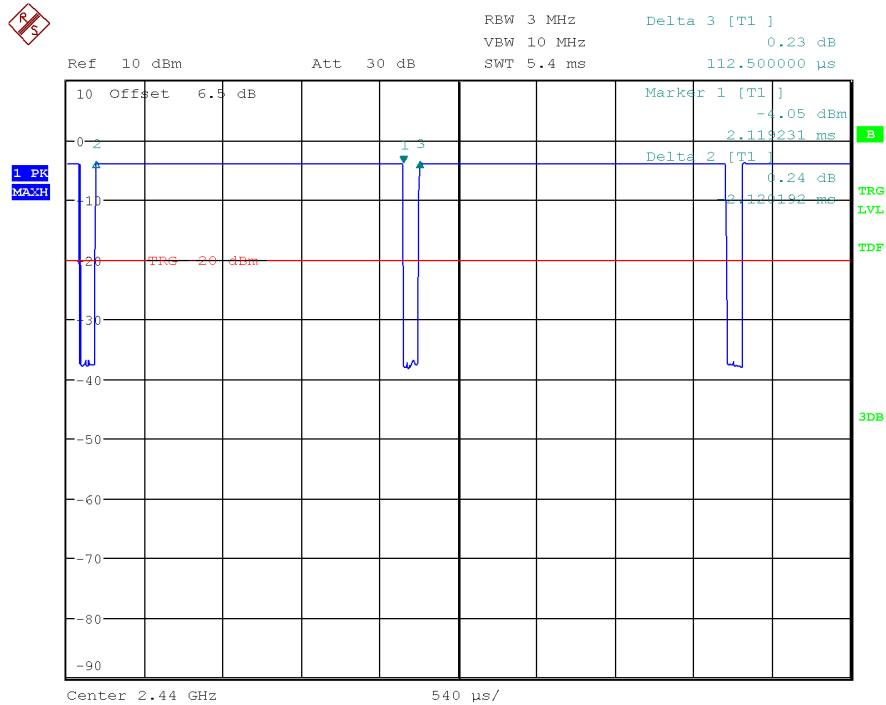


Date: 2.NOV.2024 10:51:36

Test Report No.: NW2411-F001

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3.3.5.8 Duty Cycle Test Plot



Date: 2.NOV.2024 10:54:12

Test Repot No.: NW2411-F001

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3.3.6 Conducted Emission

3.3.6.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

3.3.6.2 Limit

According to §15.207(a) and RSS-GEN §8.8 for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

3.3.6.3 Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

3.3.6.4 Test Result

Not Applicable

(Bluetooth mode does not work while charging. So, AC conducted emission test has not been performed.)

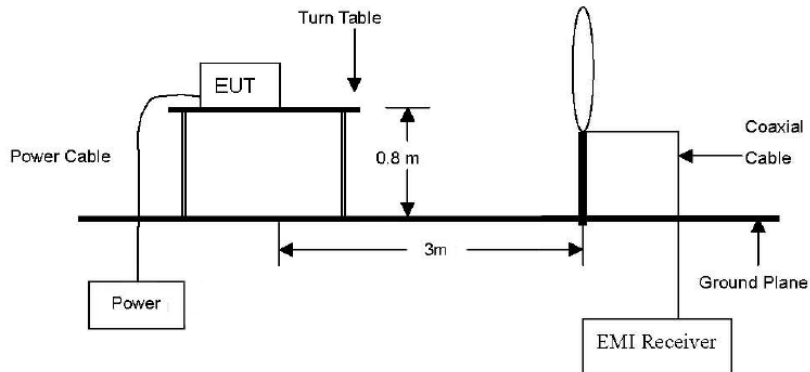
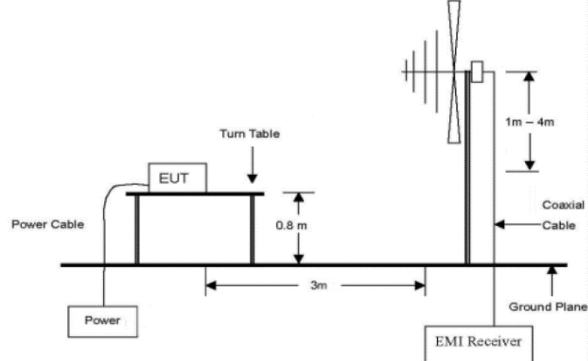
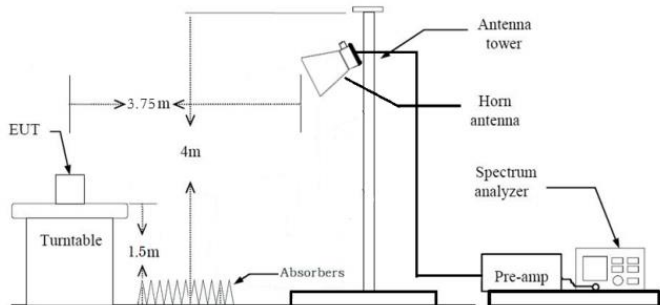
APPENDIX I

TEST SETUP

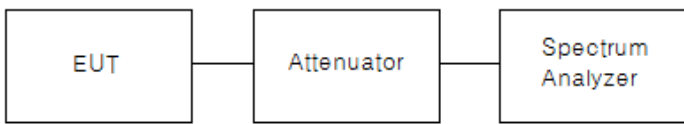
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● Radiated Measurement

<p>Below 30 MHz</p>	
<p>Below 1 GHz</p>	
<p>Above 1 GHz</p>	<p>Above 1 GHz</p> 

● Conducted Measurement

<p>Conducted</p>	
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APPENDIX II

TEST EQUIPMENT USED FOR TESTS

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	Description	Manufacturer	Serial No.	Model No.	Cal. Date	Next Cal. Date
1	SPECTRUM ANALYZER	R&S	100250	FSU26	2024-07-17	2025-07-17
2	Signal Analyzer	Anritsu	6261831920	MS2850A	2024-01-10	2025-01-10
3	Triple Output DC Power Supply	Agilent	MY4003881 6	E3631A	2024-02-27	2025-02-27
4	Bench-top Type Temperature & Humidity Chamber	ESPEC	92006813	SH-241	2024-07-18	2025-07-18
5	Vector SG	R&S	255563	SMBV100A	2024-02-27	2025-02-27
6	8360B SERIES SWEPT SIGNAL GENERATOR	HP	3614A00312	83640B	2024-07-17	2025-07-17
7	Humi./Baro/Temp. data recorder	Lutron	89503	MHB-382SD	2024-07-22	2025-07-22
8	TRILOG Broadband Antenna	Schwarzbeck	01027	VULB 9168	2023-05-23	2025-05-23
9	Double Ridged Broadband Horn Antenna	Schwarzbeck	02087	BBHA 9120 D	2024-04-24	2025-04-24
10	Broadband Horn Antenna	Schwarzbeck	00938	BBHA 9170	2024-05-24	2025-05-24
11	LOOP-ANTENNA	Schwarzbeck	00124	FMZB1519 B	2023-05-25	2025-05-25
12	Amplifier	TESTEK	190008-L	TK-PA1840H	2024-05-04	2025-05-04
13	Amplifier	TESTEK	190007-L	TK-PA18H	2024-05-21	2025-05-22
14	Amplifier	TESTEK	190009-L	TK-PA01S	2024-05-21	2025-05-22
15	EMI Test Receiver	ROHDE&SCHWARZ	102138	ESR	2024-05-21	2025-05-21
16	High Pass Filter	Mini-Circuits	1741	VHF-3100+	2024-07-17	2025-07-17
17	TRUE RMS MULTIMETER	FLUKE	42120033	175	2024-02-01	2025-02-01

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APPENDIX III

UNCERTAINTY

Measurement Item	Expanded Uncertainty $U = kU_c (k=2)$
Conducted RF power	1.00 dB
Conducted Spurious Emissions	1.06 dB
Radiated Spurious Emissions_Below 1 GHz	4.30 dB
Radiated Spurious Emissions_Above 1 GHz	5.74 dB
Conducted Emissions	2.15 dB

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