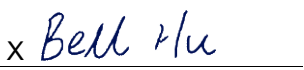


Prüfbericht-Nr.: Test report no.:	CN2682E8 001	Auftrags-Nr.: Order no.:	27233343	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-05-08	
Auftraggeber: Client:	Ningbo Dooya Mechanic & Electronic Technology Co., Ltd. No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo ZHEJIANG, China			
Prüfgegenstand: Test item:	BLE & Thread Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	HRN71_BSNS			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-05-09	Please refer to photo documents		
Prüfmuster-Nr.: Test sample no.:	A004266891-001~008			
Prüfzeitraum: Testing period:	2026-05-11 - 2026-05-15			
Ort der Prüfung: Place of testing:	Shenzhen PSI Testing Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-05-26	Ausstellungsdatum: Issue date:		2026-05-26
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:		Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: VYYHRN71 IC: 21396-HRN71 HVIN: HRN71_BSNS			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth LE

Appendix B: Test Results of Thread

Appendix C: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Shenzhen PSI Testing Co., Ltd.

1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104
A2LA CAB identifier: CN0158

TÜV Rheinland (shenzhen) Co., Ltd. subcontract all test to Shenzhen PSI Testing Co., Ltd. And all tests at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2025.12.18	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
4.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
5.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2025.12.18	1 Year
6.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
7.	Amplifier	SKET	LAPA_01G18G-45dB	SK2022032901	/	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
9.	Amplifier	SKET	LNPA_0118G-45	SK2020010801	/	2025.12.18	1 Year
10.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-117725-vh	/	2025.12.18	1 Year
11.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-1111533-Fz	/	2025.12.18	1 Year
12.	Vector Signal Generator	Agilent	N5182A	MY47420724	/	2025.12.18	1 Year
13.	Analog signal generator	Agilent	N5181A	MY50145363	/	2025.12.18	1 Year
14.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year
15.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
16.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
17.	Regulated DC Power Supply	Xinouhua	ADC120V10A	202211251638		2025.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EMC-I	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Item	Uncertainty
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

Note: Measurement Uncertainty (95% confidence levels, k=2).

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen PSI Testing Co., Ltd. Test facility located at 1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104 is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is BLE & Thread Module which supports Bluetooth low energy and Thread wireless technologies.

There are two types of base plates for the module:

Base plate 1 has two antennas: Short antenna (ANT1) and Long antenna (ANT2);

Base plate 2 has Short antenna (ANT1).

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	BLE & Thread Module
Type Designation:	HRN71_BSNS
FCC ID:	VYYHRN71
IC:	21396-HRN71
HVIN:	HRN71_BSNS
Operating Voltage:	DC 3.3V
Technical Specification of Bluetooth LE	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Data Rate:	1Mbps
Antenna Type:	Line Antenna
Antenna Number:	1
Antenna Gain:	1.6 dBi ANT1 and ANT2 (Provided by the Client)
Technical Specification of Thread	
Operating Frequency:	2405 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	16 channels
Channel Separation:	5 MHz
Antenna Type:	Line Antenna
Antenna Number:	1
Antenna Gain:	1.6 dBi ANT1 and ANT2 (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

Table 5: RF Channel and Frequency of Thread

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2405	5	2425	9	2445	13	2465
2	2410	6	2430	10	2450	14	2470
3	2415	7	2435	11	2455	15	2475
4	2420	8	2440	12	2460	16	2480

Test frequencies are lowest channel: 2405 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Thread

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Thread transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *HRN71_BSNS* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook PC	Dell	Latitude 3490	N/A
Adapter	MFG	HA65NS5-00	N/A
USB TO TTL	Junyan	CH340G	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

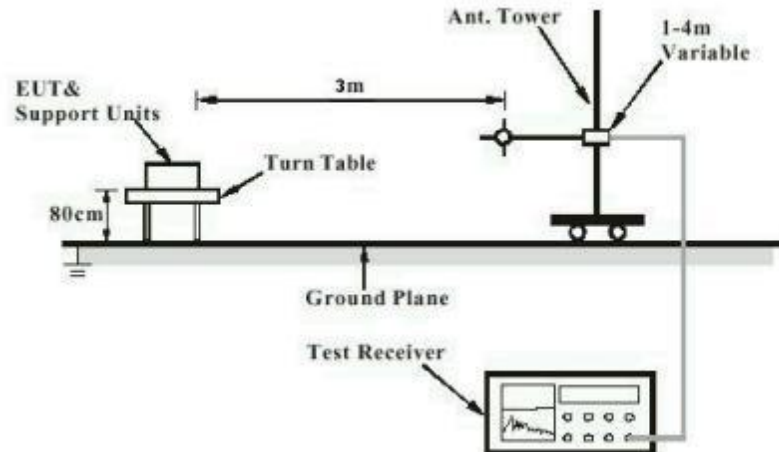


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

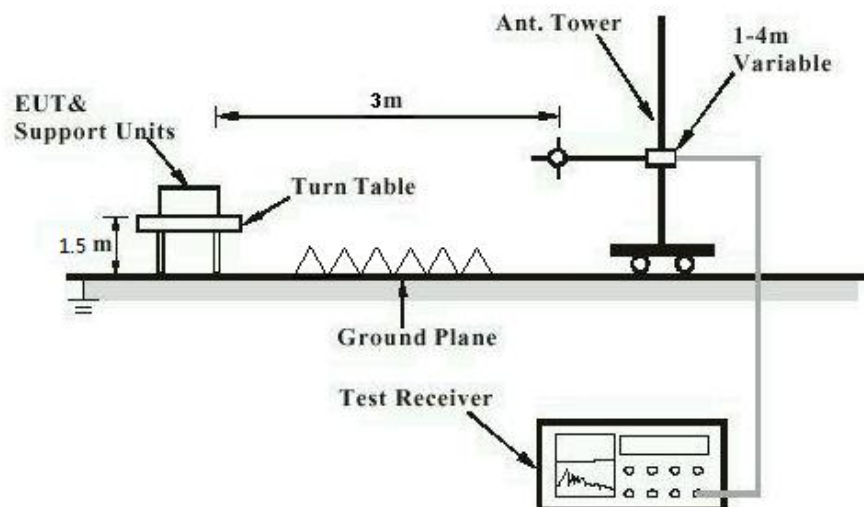
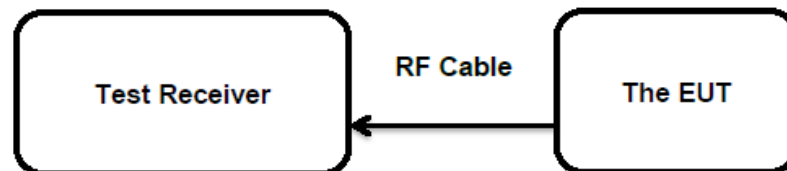


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has Line Antennas, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 1.0 W
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A, B.

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A, B.

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5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A, B.

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5.1.5 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band 2400-2483.5MHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-14
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

For the measurement records, refer to the appendix A, B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-11 to 2026-05-18
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101.2 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-15
Input voltage	: DC 3.3V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
Atmospheric pressure	: 101.2 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

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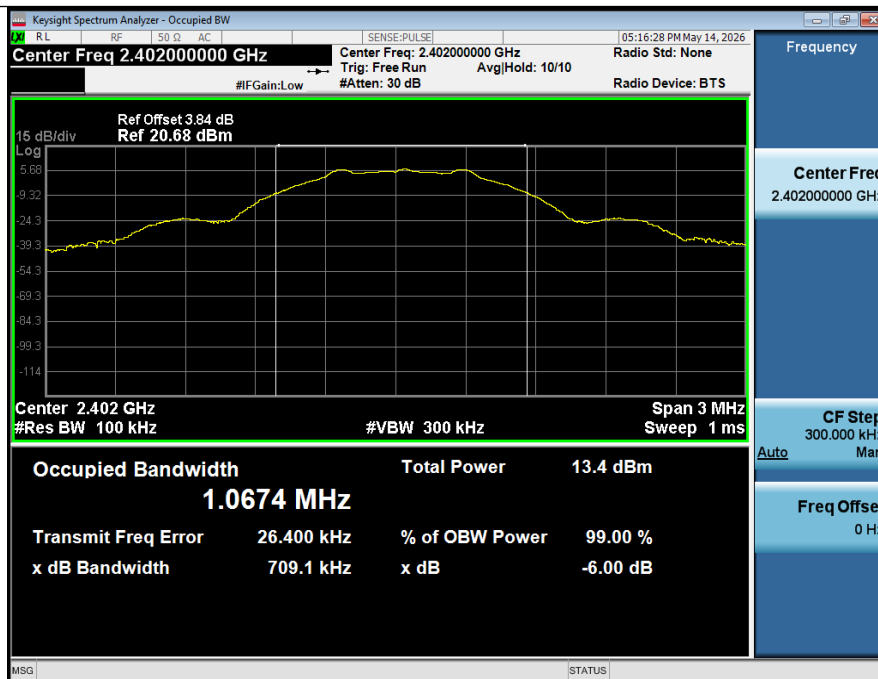
Appendix A: Test Results of Bluetooth LE

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30MHz - 1GHz for ANT1 Base plate1	15
1GHz - 18GHz for ANT1 Base plate1	17
30MHz - 1GHz for ANT2 Base plate1	23
1GHz - 18GHz for ANT2 Base plate1	25
30MHz - 1GHz for ANT1 Base plate2	31
1GHz - 18GHz for ANT1 Base plate2	33
APPENDIX A.8: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	39
For ANT1 Base plate1	39
For ANT2 Base plate1	43
For ANT3 Base plate2	47

Appendix A.1: Test Results of 6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	709.11	500	Pass
NVNT	ANT1	1Mbps	2440.00	708.24	500	Pass
NVNT	ANT1	1Mbps	2480.00	710.64	500	Pass

-6dB_Bandwidth_NVNT_ANT1_1Mbps_2402



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2440



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480



Appendix A.2: Test Results of 99% Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.062
NVNT	ANT1	1Mbps	2440.00	1.063
NVNT	ANT1	1Mbps	2480.00	1.066

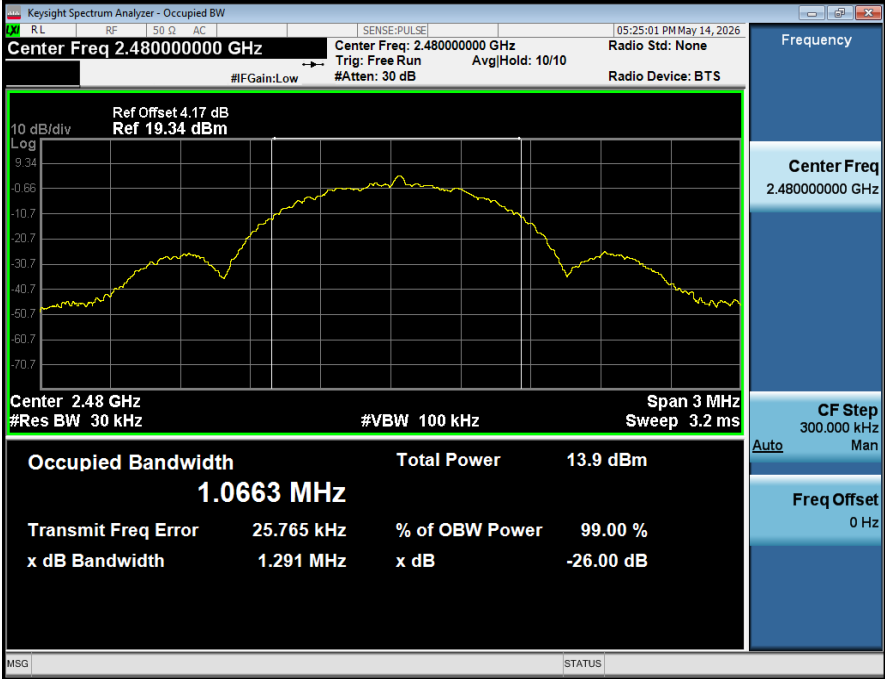
99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2402



99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2440



99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2480



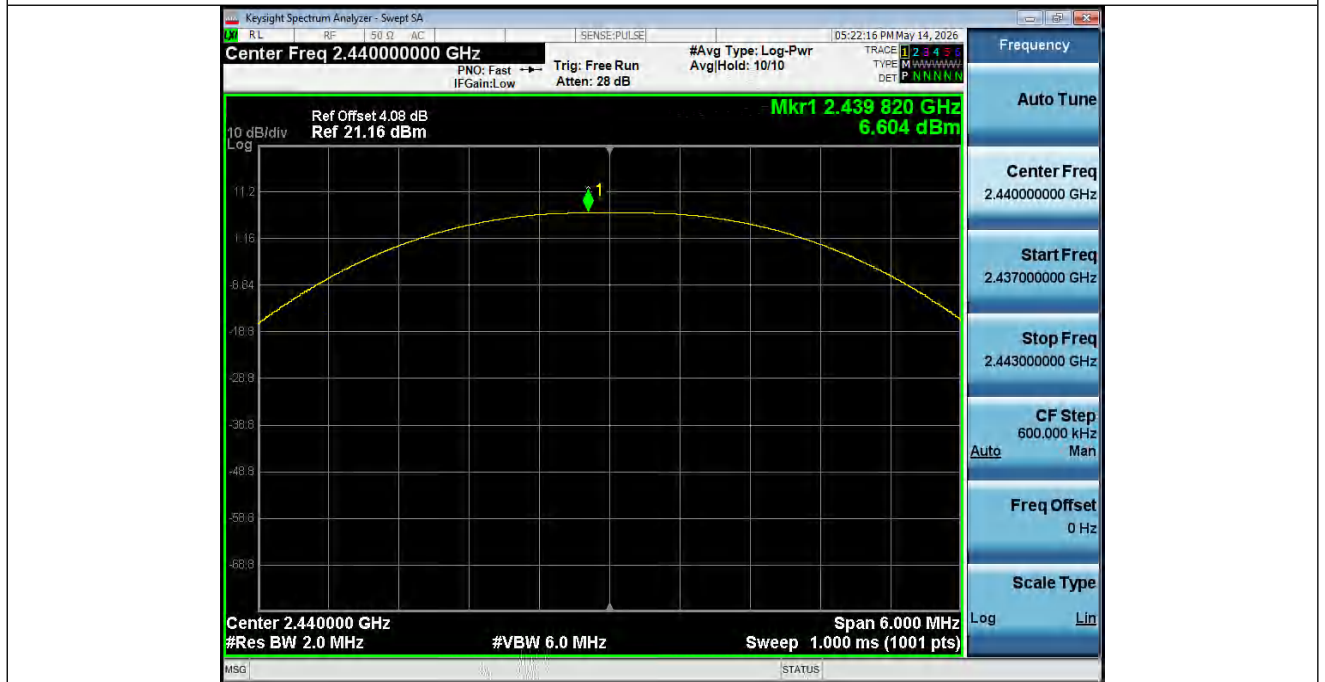
Appendix A.3: Test Results of Peak Conducted Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	6.56	4.53	1000	Pass
NVNT	ANT1	1Mbps	2440.00	6.60	4.58	1000	Pass
NVNT	ANT1	1Mbps	2480.00	6.20	4.16	1000	Pass

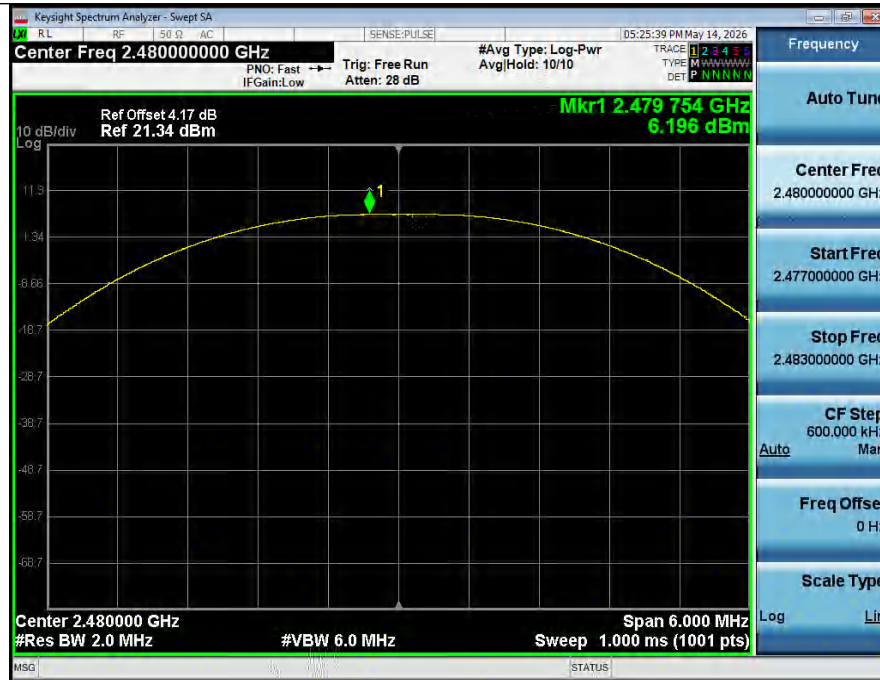
Peak_Output_Power_NVNT_ANT1_1Mbps_2402



Peak_Output_Power_NVNT_ANT1_1Mbps_2440



Peak_Output_Power_NVNT_ANT1_1Mbps_2480



Appendix A.4: Test Results of Conducted Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-7.35	8	Pass
NVNT	ANT1	1Mbps	2440.00	-6.98	8	Pass
NVNT	ANT1	1Mbps	2480.00	-7.51	8	Pass

Power_Spectral_Density_NVNT_ANT1_1Mbps_2402



Power_Spectral_Density_NVNT_ANT1_1Mbps_2440



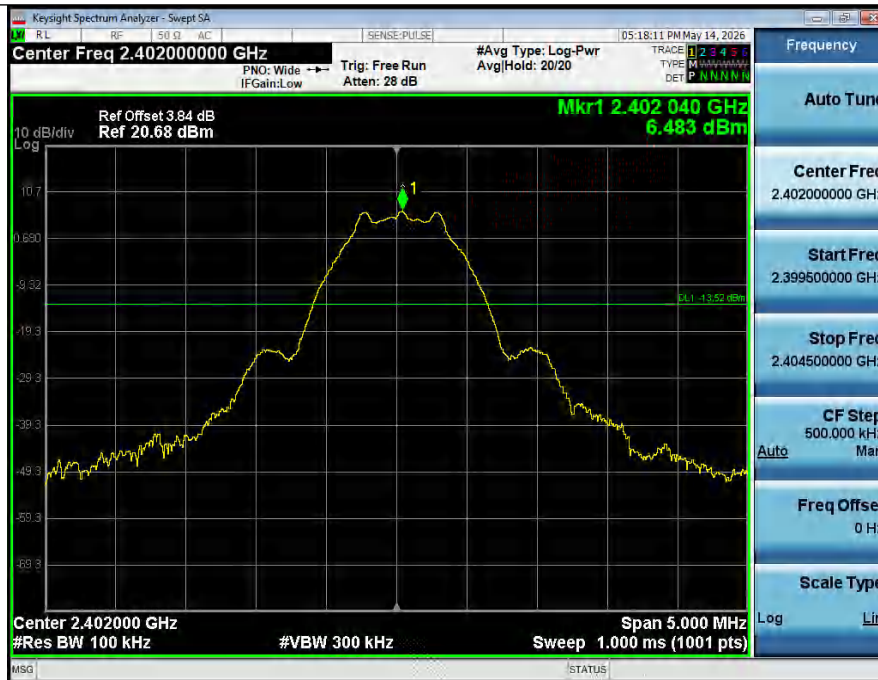
Power_Spectral_Density_NVNT_ANT1_1Mbps_2480



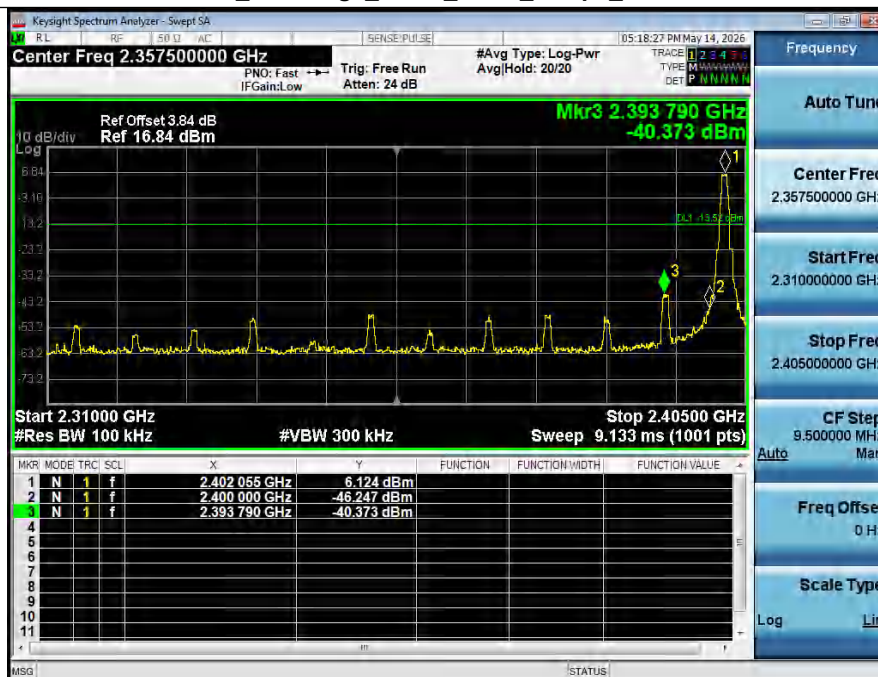
Appendix A.5: Test Results of Band Edge Measurements

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2393.790	6.483	-40.373	-13.517	Pass
NVNT	ANT1	1Mbps	2480.00	2488.050	6.128	-40.881	-13.872	Pass

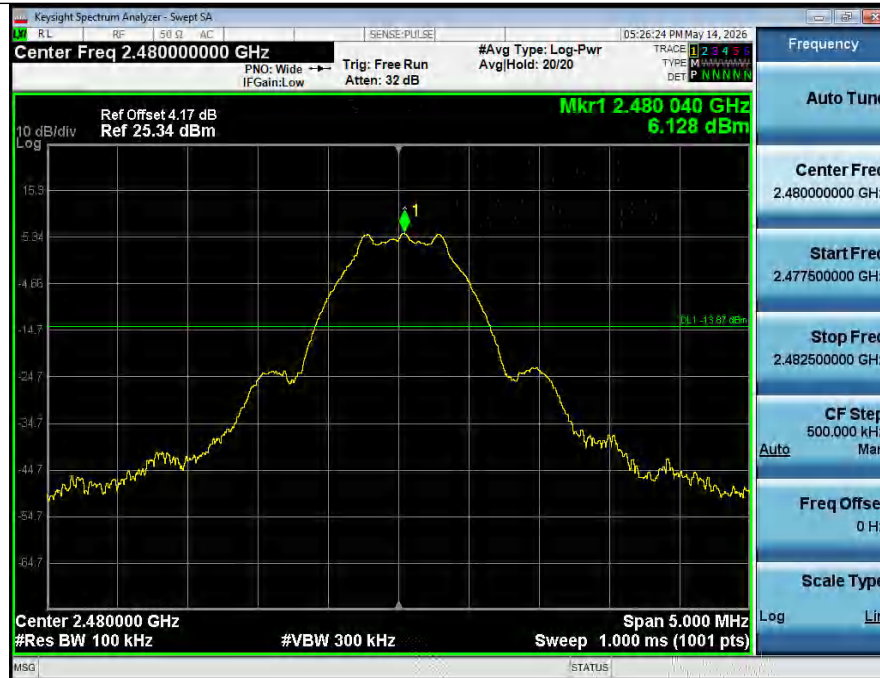
1_Reference_Level_NVNT_ANT1_1Mbps_2402



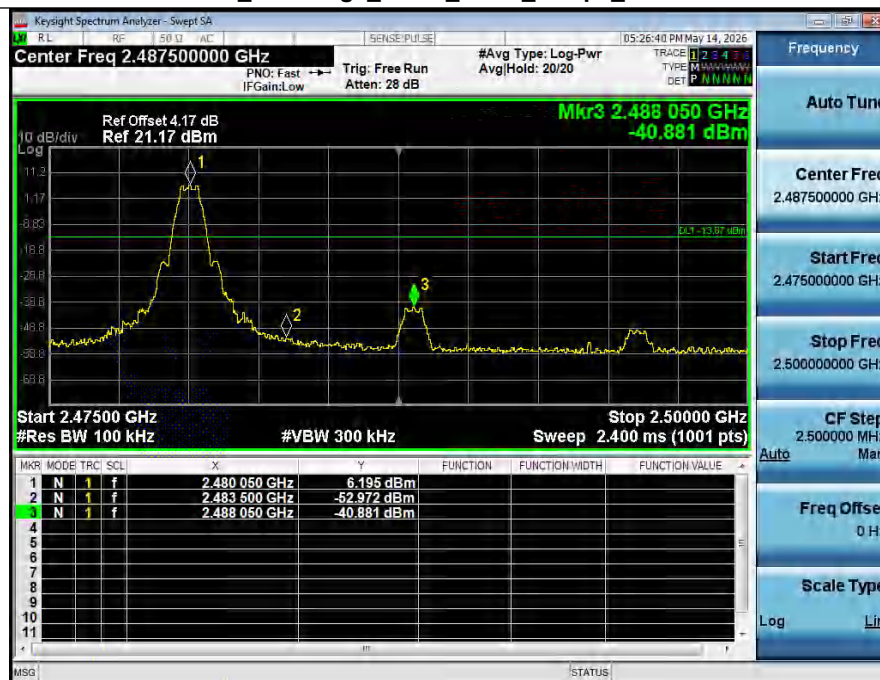
2_Bandedge_NVNT_ANT1_1Mbps_2402



1_Reference_Level_NVNT_ANT1_1Mbps_2480



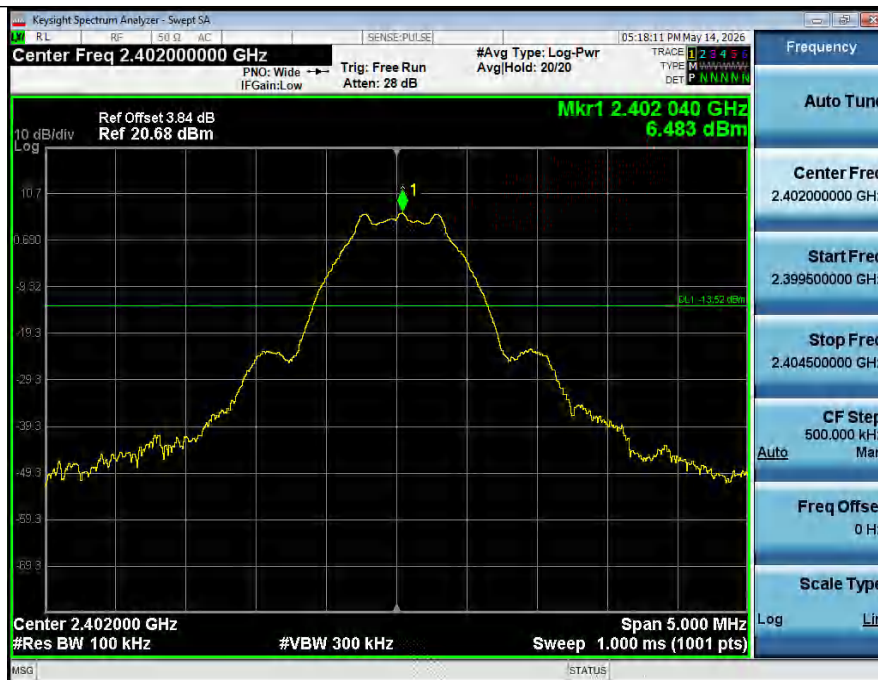
2_Bandedge_NVNT_ANT1_1Mbps_2480



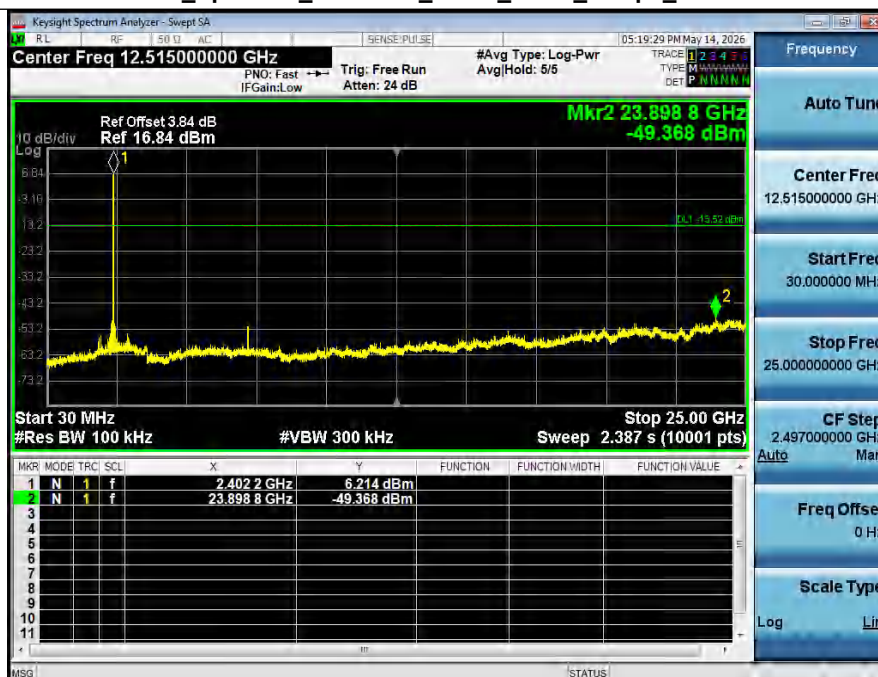
Appendix A.6: Test Results of Conducted Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	6.483	-49.368	-13.517	Pass
NVNT	ANT1	1Mbps	2440.00	6.357	-49.160	-13.643	Pass
NVNT	ANT1	1Mbps	2480.00	6.128	-44.938	-13.872	Pass

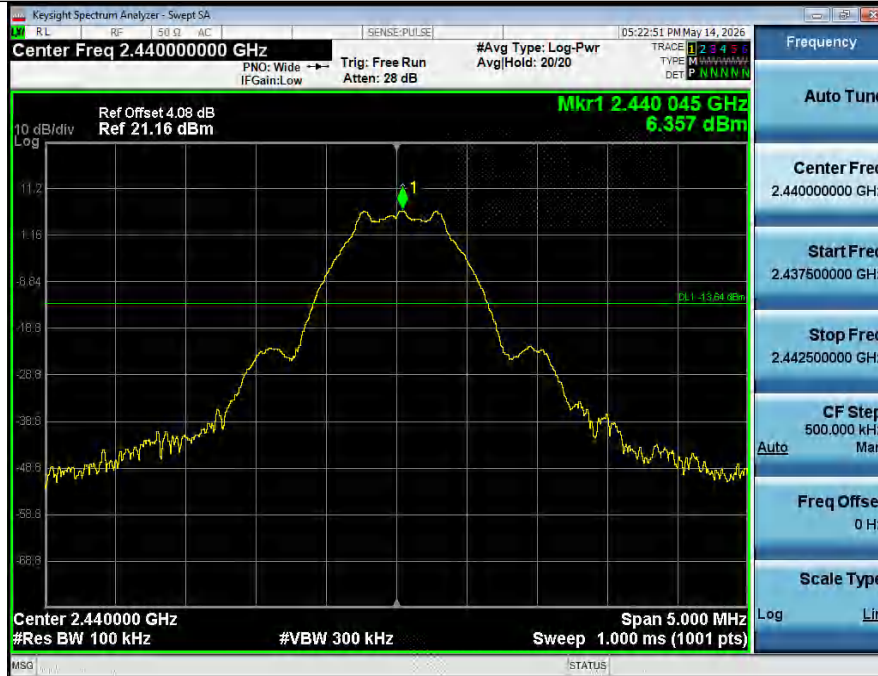
1_Reference_Level_NVNT_ANT1_1Mbps_2402



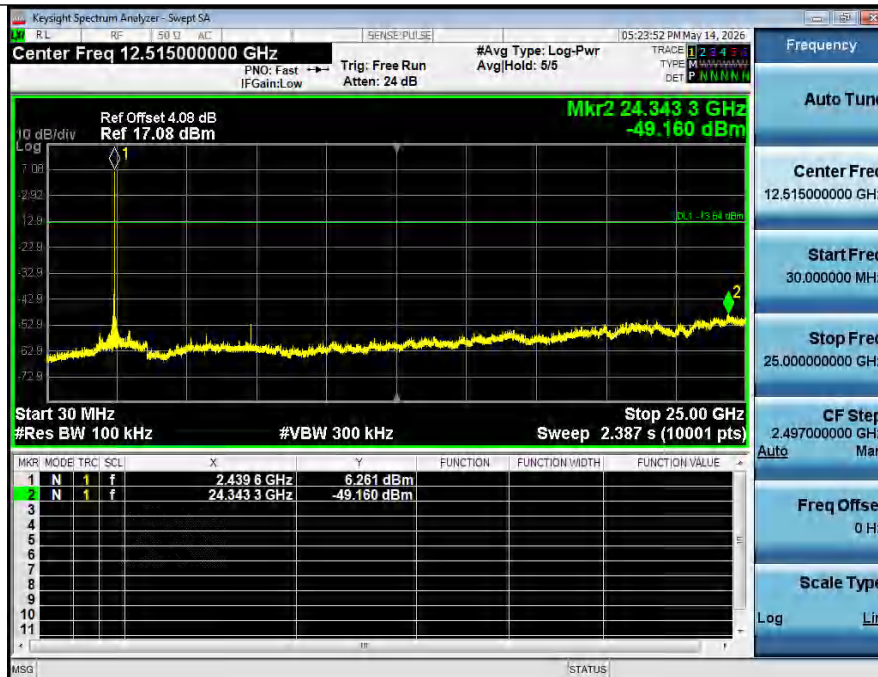
2_Spurious_Emission_NVNT_ANT1_1Mbps_2402



1_Reference_Level_NVNT_ANT1_1Mbps_2440



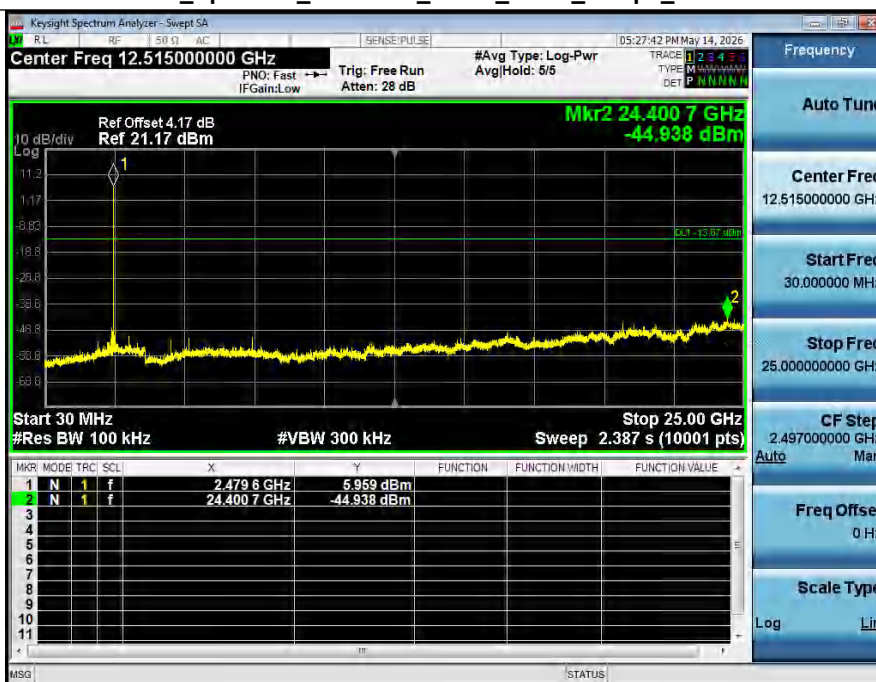
2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1	Reference_Level	NVNT	ANT1	1Mbps	2480
---	-----------------	------	------	-------	------



2_Spurious_Emission_NVNT_ANT1_1Mbps_2480



Appendix A.7: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz for ANT1 Base plate1

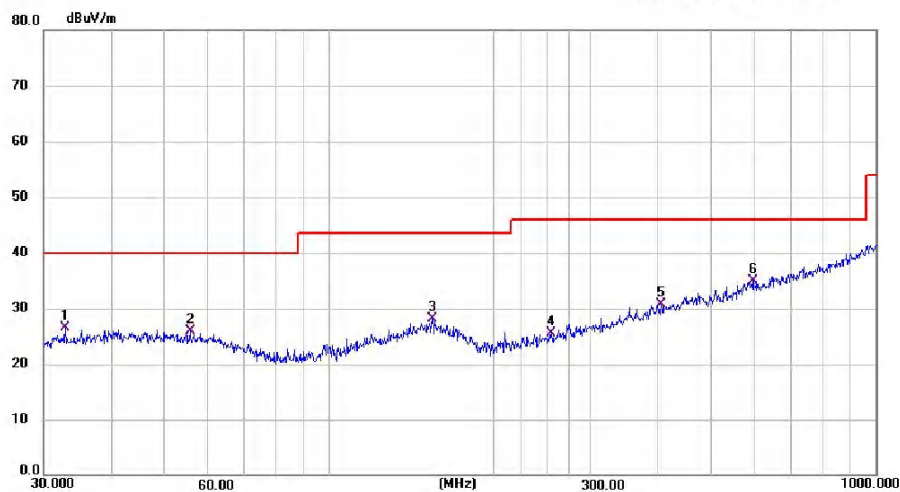


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: BLE & Thread Module	Distance:	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/15 17:08:24



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.8637	13.07	13.50	26.57	40.00	-13.43	QP	100	23	P	
2	55.6094	12.49	13.46	25.95	40.00	-14.05	QP	100	259	P	
3	154.2786	12.87	15.20	28.07	43.50	-15.43	QP	100	223	P	
4	254.7284	11.98	13.61	25.59	46.00	-20.41	QP	100	87	P	
5	404.6665	12.95	17.72	30.67	46.00	-15.33	QP	100	244	P	
6 *	595.1329	12.86	21.96	34.82	46.00	-11.18	QP	100	201	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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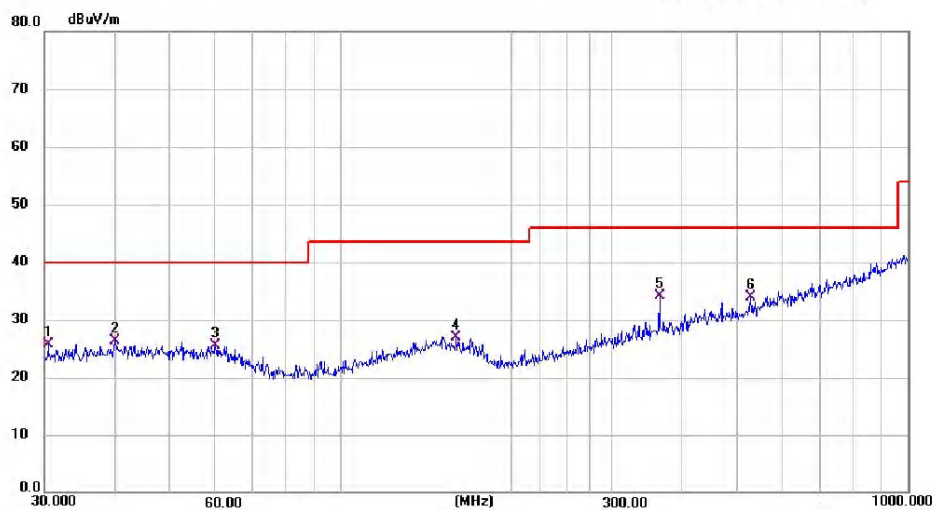
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 17:13:30



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.4238	12.30	13.43	25.73	40.00	-14.27	QP	200	326	P	
2	39.9942	11.97	14.28	26.25	40.00	-13.75	QP	200	315	P	
3	60.0691	12.27	13.25	25.52	40.00	-14.48	QP	200	221	P	
4	159.7844	11.67	15.17	26.84	43.50	-16.66	QP	200	152	P	
5 *	364.2595	17.21	16.85	34.06	46.00	-11.94	QP	200	64	P	
6	528.2458	13.41	20.51	33.92	46.00	-12.08	QP	200	128	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

1GHz - 18GHz for ANT1 Base plate1

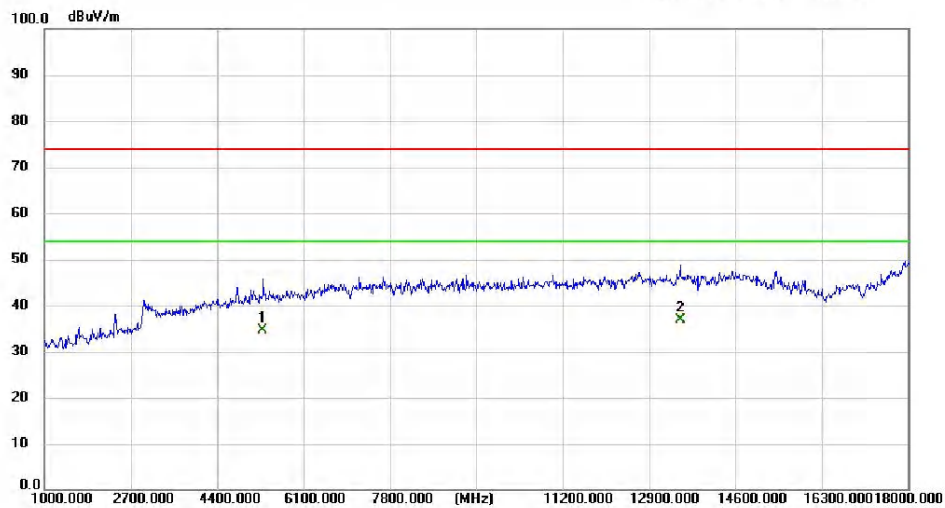


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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: BLE & Thread Module	Distance: 3m	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/15 13:46:01



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5311.625	55.81	-21.16	34.65	54.00	-19.35	AVG	150	208	P	
2 *	13518.375	50.31	-13.45	36.86	54.00	-17.14	AVG	150	275	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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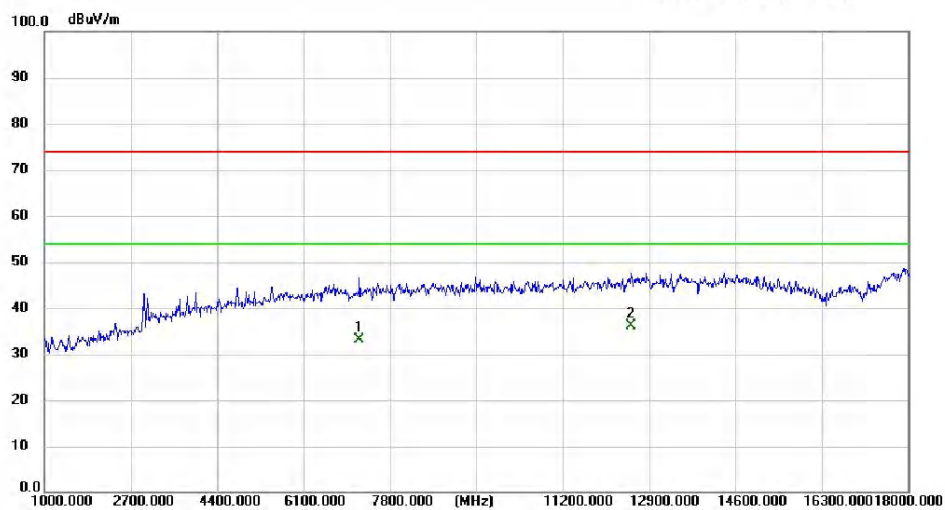
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 13:52:19



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7205.000	50.42	-17.27	33.15	54.00	-20.85	AVG	150	215	P	
2 *	12553.625	50.46	-14.24	36.22	54.00	-17.78	AVG	150	188	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-短天线 (BLE+Thread) \Data

Page: 1

Engineer Signature:



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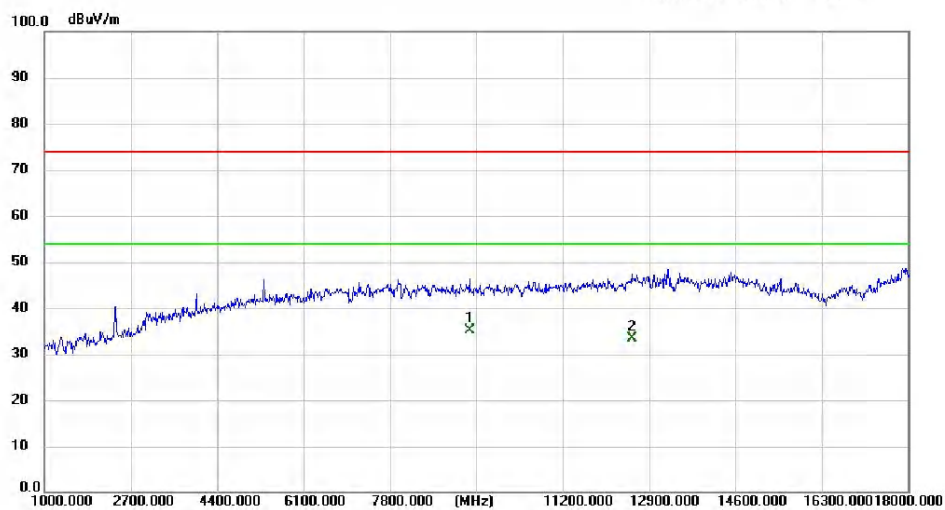
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 13:57:18



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	9366.125	51.46	-16.34	35.12	54.00	-18.88	AVG	150	315	P	
2	12568.500	47.49	-14.23	33.26	54.00	-20.74	AVG	150	214	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-短天线 (BLE+Thread) \Data

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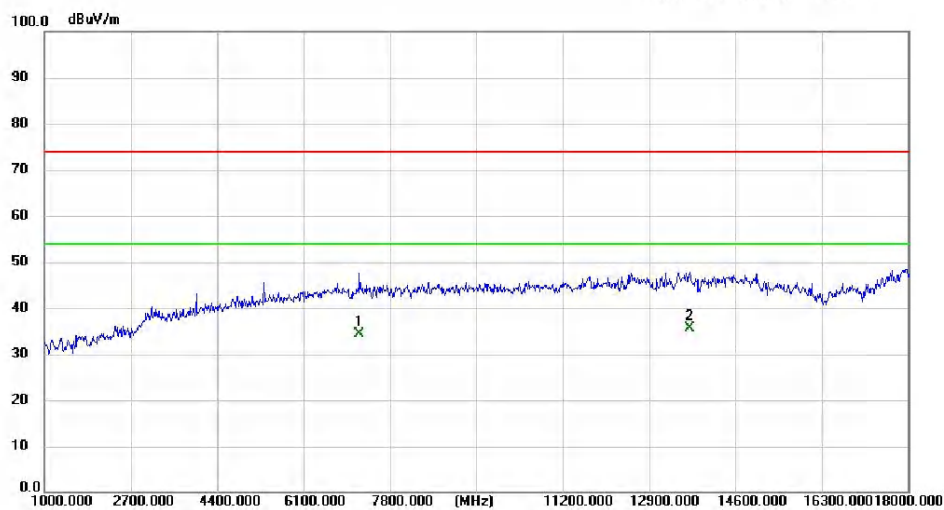
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:02:12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7207.125	51.53	-17.26	34.27	54.00	-19.73	AVG	150	254	P	
2 *	13707.500	48.83	-13.31	35.52	54.00	-18.48	AVG	150	153	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-短天线 (BLE+Thread) \Data

Page: 1

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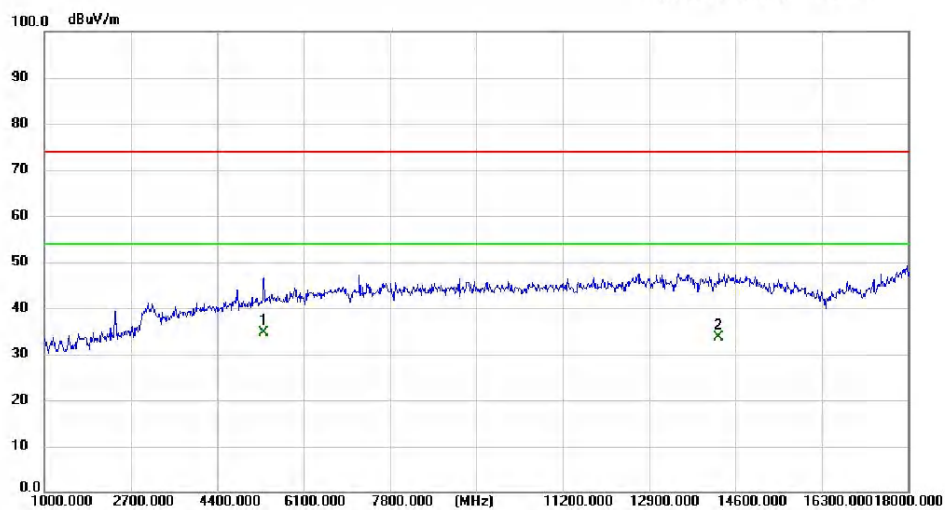
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:07:18



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5320.125	55.66	-21.14	34.52	54.00	-19.48	AVG	150	126	P	
2	14289.750	46.71	-13.19	33.52	54.00	-20.48	AVG	150	91	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-短天线 (BLE+Thread) \Data

Page: 1

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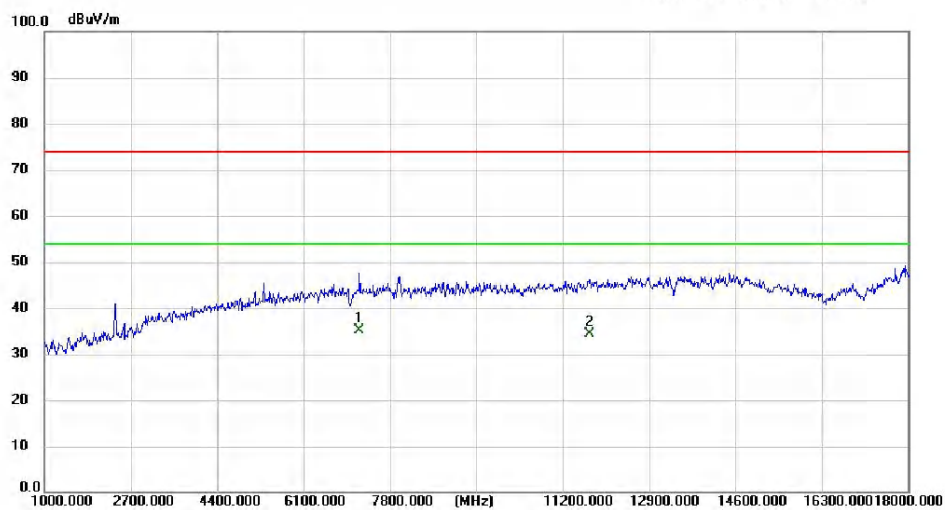
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:12:05



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7205.000	52.28	-17.27	35.01	54.00	-18.99	AVG	150	152	P	
2	11727.000	49.19	-14.87	34.32	54.00	-19.68	AVG	150	0	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-短天线 (BLE+Thread) \Data

Page: 1

Engineer Signature:

30MHz - 1GHz for ANT2 Base plate1

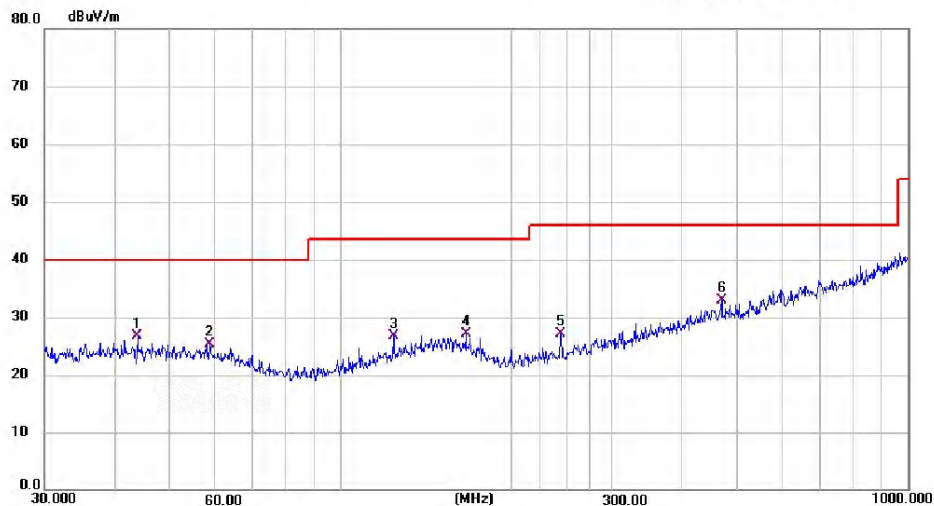


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: BLE & Thread Module Distance: Humidity: 54 %RH
M/N: BLE & Thread Module Test Engineer: Felix
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Radiated Emission Measurement

Test Date: 2026/5/15 17:28:10



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.8119	12.69	13.99	26.68	40.00	-13.32	QP	100	328	P	
2	58.6126	11.93	13.32	25.25	40.00	-14.75	QP	100	206	P	
3	123.6985	13.30	13.40	26.70	43.50	-16.80	QP	100	145	P	
4	166.0680	12.51	14.65	27.16	43.50	-16.34	QP	100	325	P	
5	244.2321	13.83	13.35	27.18	46.00	-18.82	QP	100	248	P	
6 *	468.8762	13.55	19.36	32.91	46.00	-13.09	QP	100	360	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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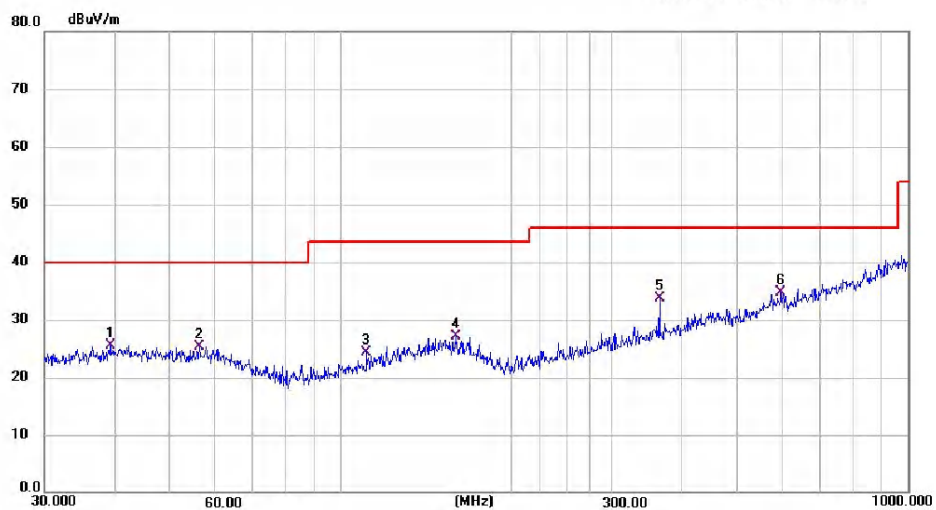
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 17:33:56



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.1616	11.32	14.15	25.47	40.00	-14.53	QP	200	206	P	
2	56.1974	11.94	13.44	25.38	40.00	-14.62	QP	200	114	P	
3	110.9571	12.26	12.13	24.39	43.50	-19.11	QP	200	31	P	
4	159.2251	11.96	15.18	27.14	43.50	-16.36	QP	200	51	P	
5	364.2595	16.77	16.85	33.62	46.00	-12.38	QP	200	256	P	
6 *	597.2234	12.76	22.01	34.77	46.00	-11.23	QP	200	265	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

1GHz - 18GHz for ANT2 Base plate1



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Test Site: PSI EMC Lab-3m Chamber	Polarization: Vertical	Temperature: 26 °C
EUT: BLE & Thread Module	Distance: 3m	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/15 14:27:48



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5315.875	55.35	-21.15	34.20	54.00	-19.80	AVG	150	226	P	
2 *	12878.750	49.54	-13.92	35.62	54.00	-18.38	AVG	150	322	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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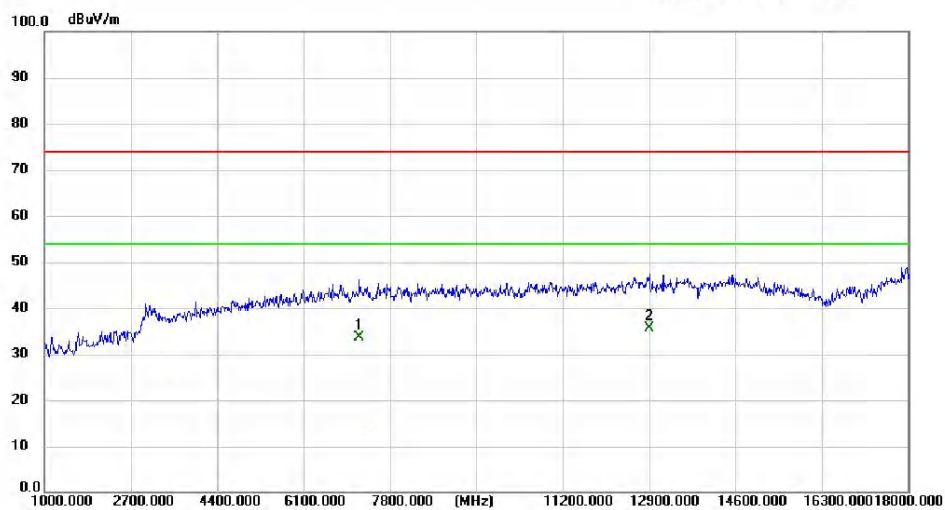
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:32:17



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7205.000	50.83	-17.27	33.56	54.00	-20.44	AVG	150	206	P	
2 *	12904.250	49.44	-13.90	35.54	54.00	-18.46	AVG	150	321	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-长天线 (BLE+Thread) \Data

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Engineer Signature:



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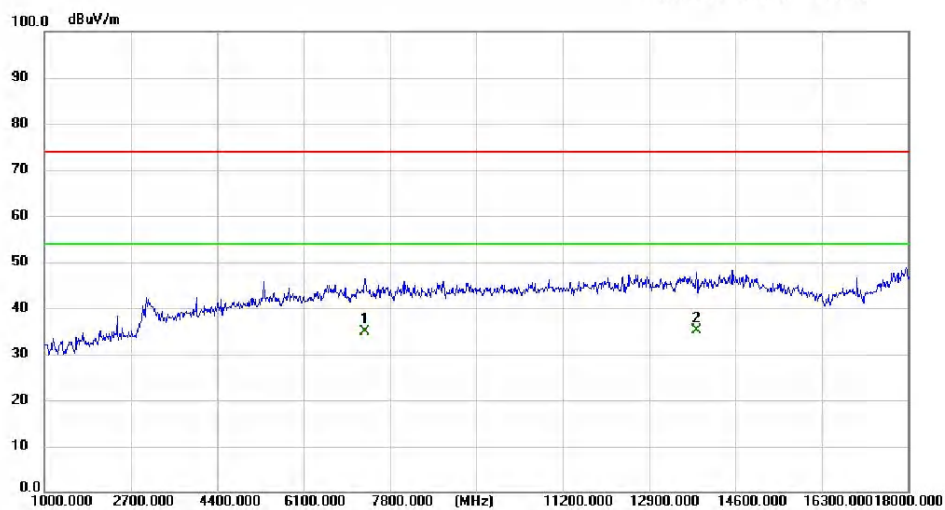
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:37:36



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7319.750	52.13	-17.18	34.95	54.00	-19.05	AVG	150	215	P	
2 *	13835.000	48.42	-13.22	35.20	54.00	-18.80	AVG	150	316	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-长天线 (BLE+Thread) \Data

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Engineer Signature:



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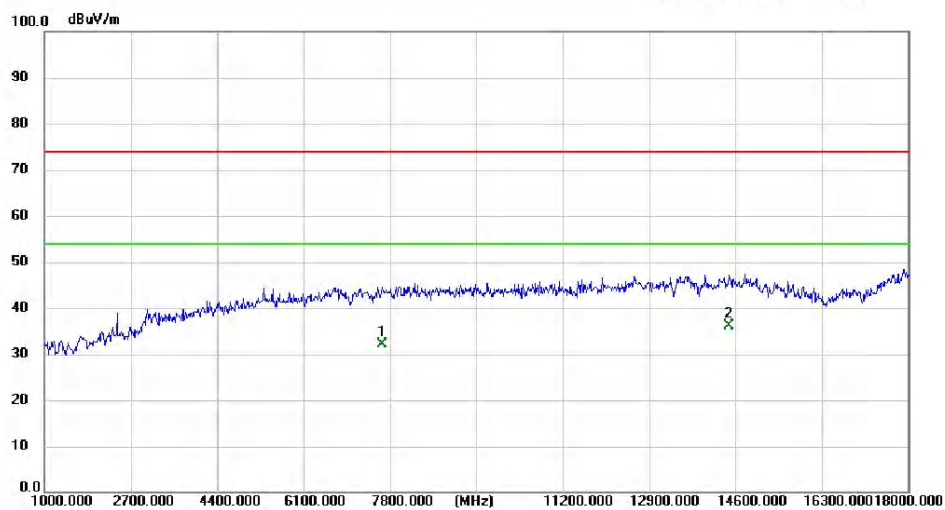
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:42:03



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7659.750	49.11	-16.96	32.15	54.00	-21.85	AVG	150	65	P	
2 *	14466.125	49.46	-13.26	36.20	54.00	-17.80	AVG	150	145	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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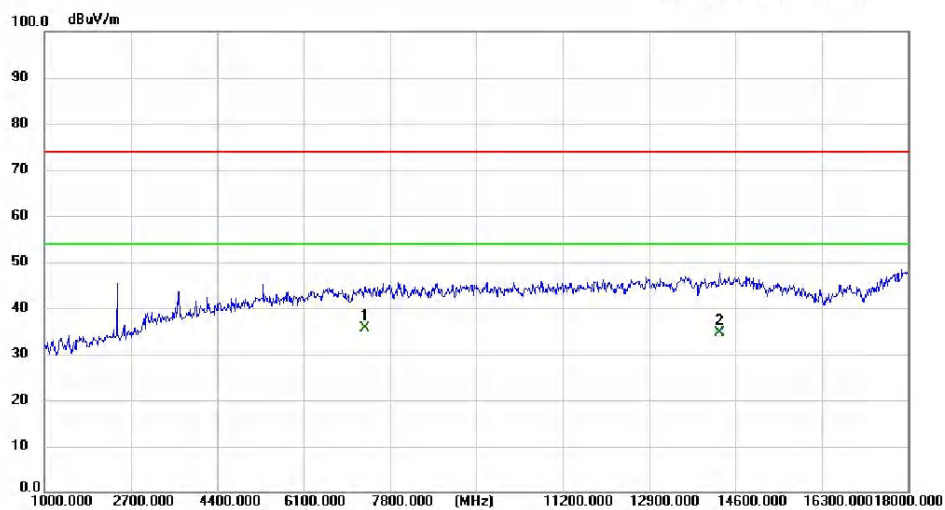
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:48:54



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7319.750	52.76	-17.18	35.58	54.00	-18.42	AVG	150	206	P	
2	14298.250	47.72	-13.20	34.52	54.00	-19.48	AVG	150	145	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-长天线 (BLE+Thread) \Data

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Engineer Signature:



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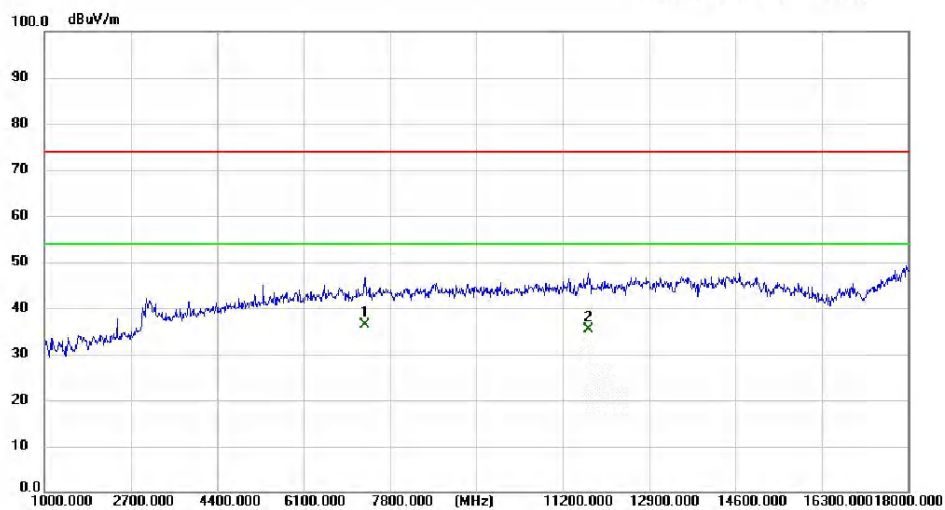
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 14:53:36



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7319.750	53.48	-17.18	36.30	54.00	-17.70	AVG	150	62	P	
2	11712.125	50.27	-14.87	35.40	54.00	-18.60	AVG	150	354	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板1-长天线 (BLE+Thread) \Data

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Engineer Signature:

30MHz - 1GHz for ANT1 Base plate2

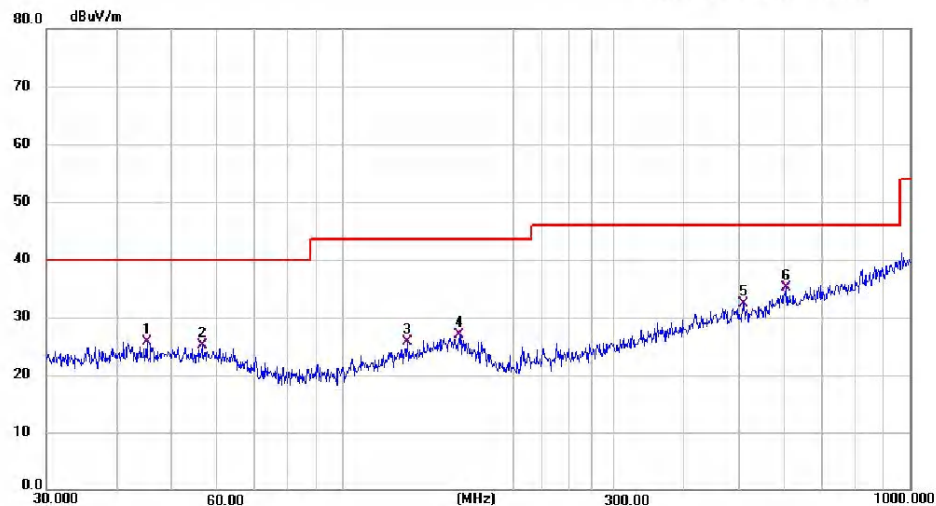


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: BLE & Thread Module Distance: Humidity: 54 %RH
M/N: BLE & Thread Module Test Engineer: Felix
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Radiated Emission Measurement

Test Date: 2026/5/15 17:46:30



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.0583	11.88	13.91	25.79	40.00	-14.21	QP	100	230	P	
2	56.3948	11.60	13.43	25.03	40.00	-14.97	QP	100	320	P	
3	129.9226	11.81	13.82	25.63	43.50	-17.87	QP	100	156	P	
4	160.9089	11.73	15.10	26.83	43.50	-16.67	QP	100	236	P	
5	508.2582	12.23	20.02	32.25	46.00	-13.75	QP	100	325	P	
6 *	605.6592	12.94	22.17	35.11	46.00	-10.89	QP	100	360	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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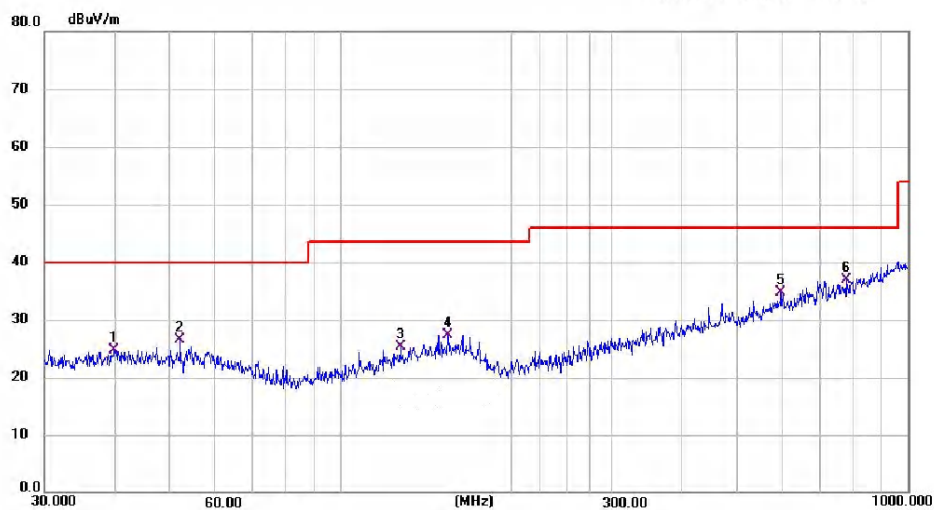
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance:
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 17:51:50



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.8542	10.42	14.26	24.68	40.00	-15.32	QP	200	215	P	
2	52.0251	12.83	13.64	26.47	40.00	-13.53	QP	200	125	P	
3	127.2176	11.58	13.63	25.21	43.50	-18.29	QP	200	145	P	
4	154.2786	12.13	15.20	27.33	43.50	-16.17	QP	200	126	P	
5	597.2234	12.76	22.01	34.77	46.00	-11.23	QP	200	54	P	
6 *	776.8778	12.08	24.86	36.94	46.00	-9.06	QP	200	781	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

1GHz - 18GHz for ANT1 Base plate2

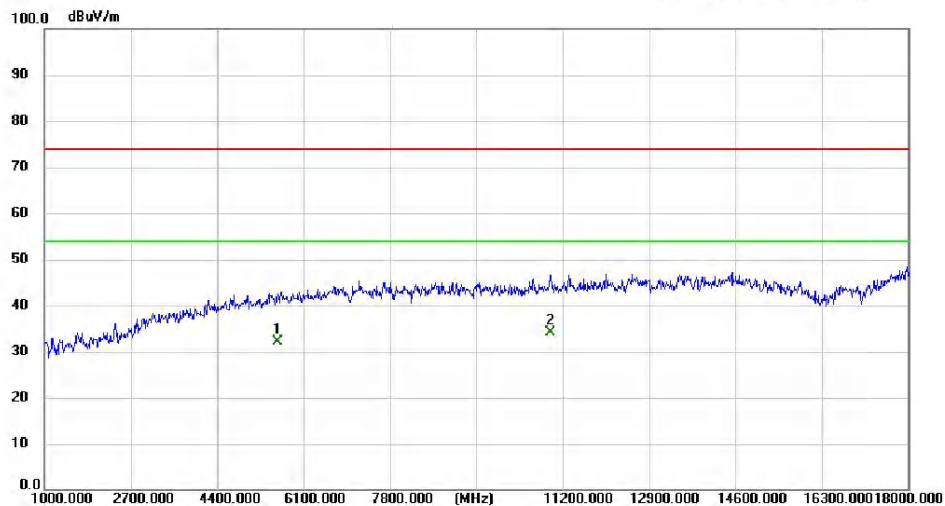


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Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: BLE & Thread Module Distance: 3m Humidity: 54 %RH
M/N: BLE & Thread Module Test Engineer: Felix
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Radiated Emission Measurement

Test Date: 2026/5/15 16:38:37



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5598.500	52.75	-20.55	32.20	54.00	-21.80	AVG	150	206	P	
2 *	10966.250	49.24	-15.12	34.12	54.00	-19.88	AVG	150	123	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit



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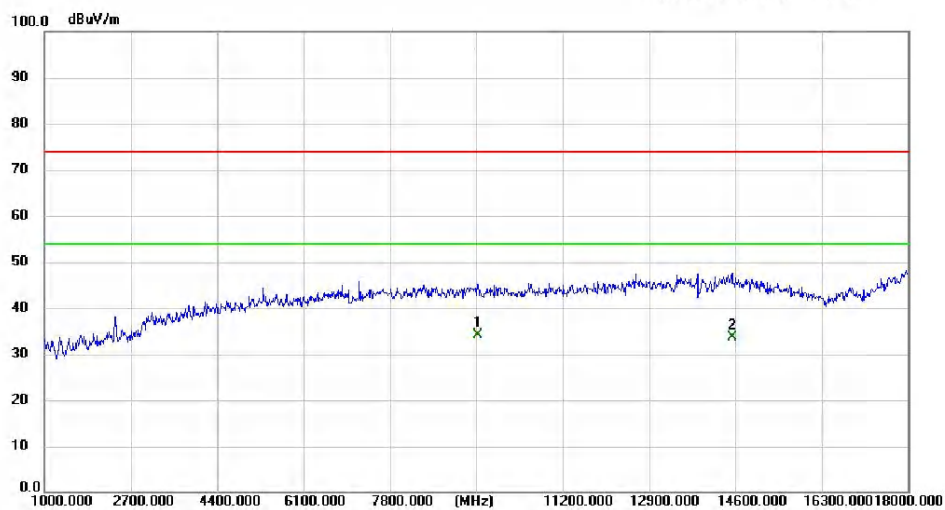
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2402M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 16:42:11



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	9546.750	50.50	-16.25	34.25	54.00	-19.75	AVG	150	325	P	
2	14536.250	46.79	-13.27	33.52	54.00	-20.48	AVG	150	155	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板2-短天线 (BLE+Thread) \Data

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Engineer Signature:



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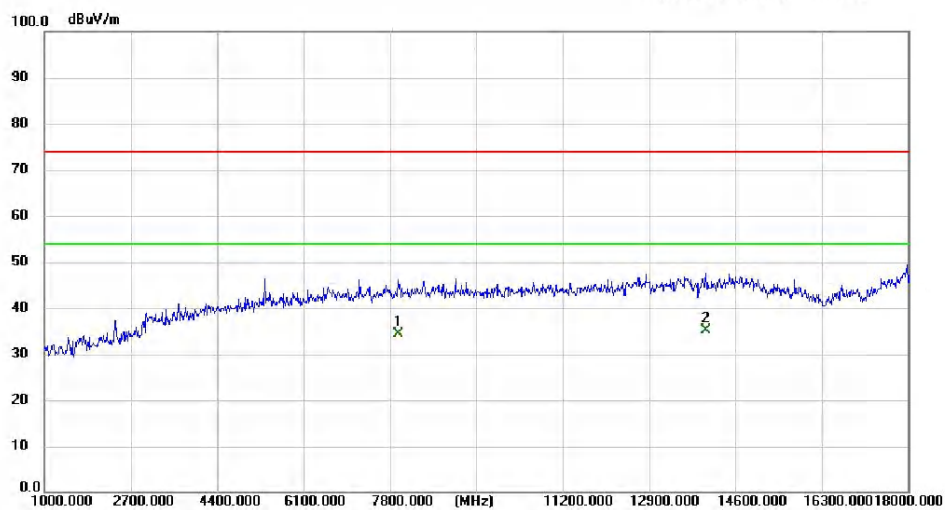
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 16:47:59



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	7974.250	51.08	-16.75	34.33	54.00	-19.67	AVG	150	235	P	
2 *	14030.500	48.37	-13.12	35.25	54.00	-18.75	AVG	150	264	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板2-短天线 (BLE+Thread) \Data

Page: 1

Engineer Signature:



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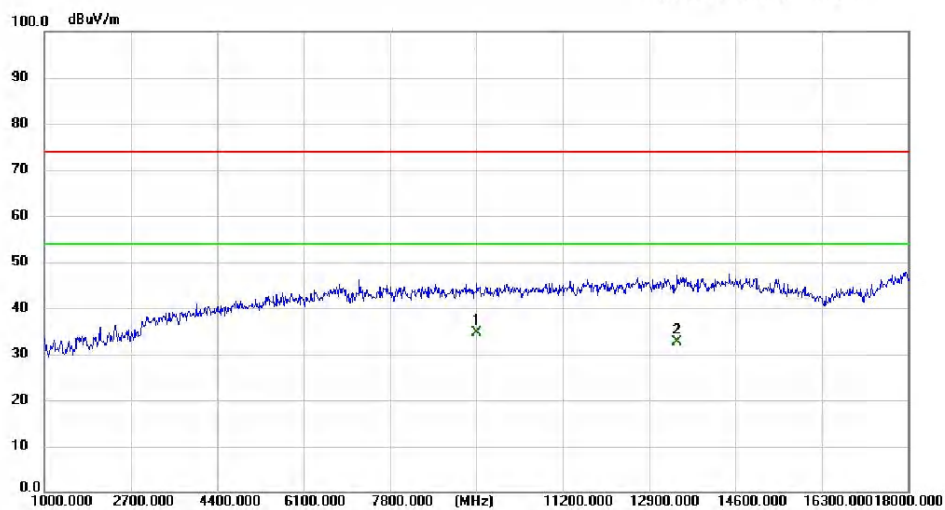
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2440M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 16:51:41



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	9519.125	50.79	-16.27	34.52	54.00	-19.48	AVG	150	215	P	
2	13473.750	46.01	-13.49	32.52	54.00	-21.48	AVG	150	354	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板2-短天线 (BLE+Thread) \Data

Page: 1

Engineer Signature:



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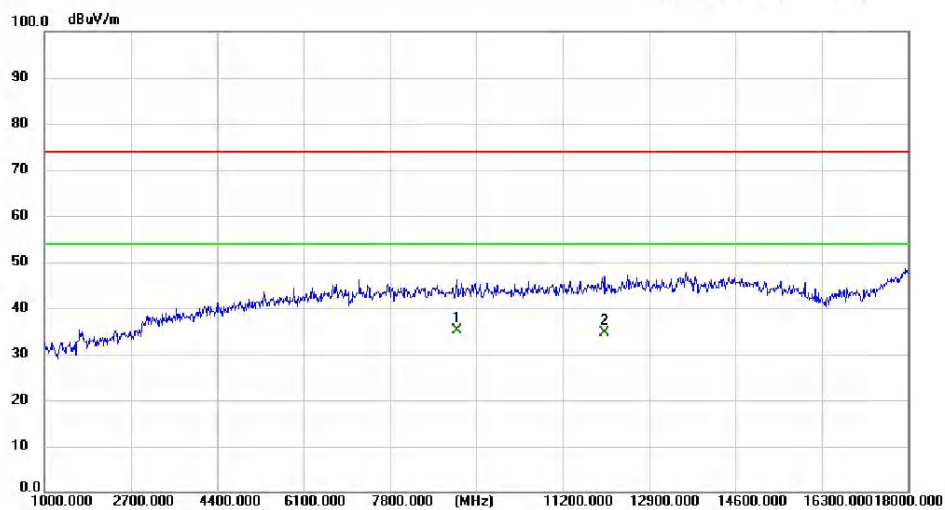
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Horizontal**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 16:55:38



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	9136.625	51.55	-16.43	35.12	54.00	-18.88	AVG	150	223	P	
2	12026.625	49.31	-14.76	34.55	54.00	-19.45	AVG	150	115	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: RSE-底板2-短天线 (BLE+Thread) \Data

Page: 1

Engineer Signature:



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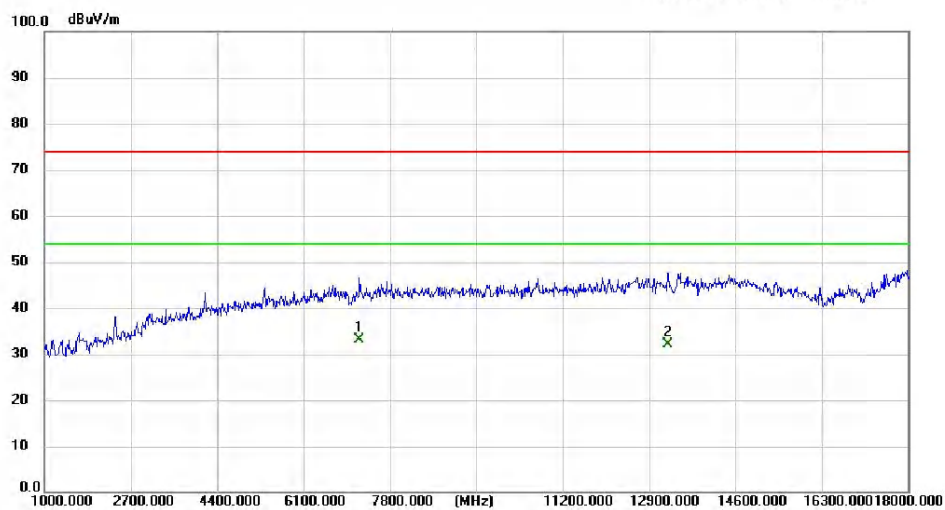
Test Site: PSI EMC Lab-3m Chamber
EUT: BLE & Thread Module
M/N: BLE & Thread Module
Test Mode: BLE 1M 2480M
Test Voltage: DC 3.3V
Note:

Polarization: **Vertical**
Distance: 3m
Test Engineer: Felix

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

Test Date: 2026/5/15 16:59:05



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	7215.625	50.52	-17.27	33.25	54.00	-20.75	AVG	150	206	P	
2	13280.375	45.63	-13.60	32.03	54.00	-21.97	AVG	150	145	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

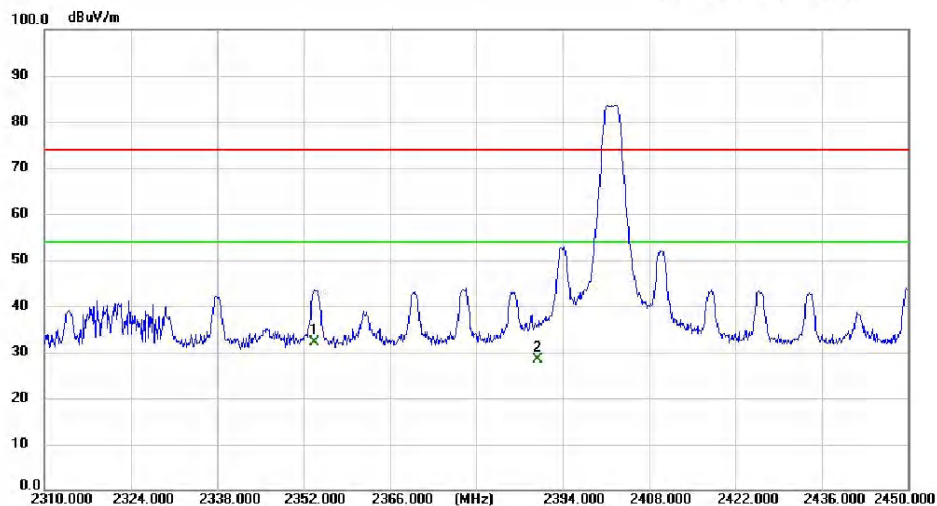
For ANT1 Base plate1

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Test Site: PSI EMC Lab-3m Chamber	Polarization: Horizontal	Temperature: 26 °C
EUT: BLE & Thread Module	Distance: 3m	Humidity: 54 %RH
M/N: BLE & Thread Module	Test Engineer: Felix	
Test Mode: BLE 1M 2402M		
Test Voltage: DC 3.3V		
Note:		

Radiated Emission Measurement

Test Date: 2026/5/15 9:37:34



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2353.872	56.16	-24.01	32.15	54.00	-21.85	AVG	150	218	P	
2	2390.000	52.31	-23.89	28.42	54.00	-25.58	AVG	150	320	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit