

Prüfbericht-Nr.: <i>Test report no.:</i>	CN250611 001	Auftrags-Nr.: <i>Order no.:</i>	180335579	Seite 1 von 32 Page 1 of 32
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025.06.03	
Auftraggeber: <i>Client:</i>	Ningbo Shuanghe Hongsheng Electronic Technology Co., Ltd No.2 Binxi South Rd Dayin Industrial Park Dayi Yuyao 315500 Zhejiang P.R. China			
Prüfgegenstand: <i>Test item:</i>	Wireless Meat Thermometer (Deluxe Version)			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	SH066			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland – FCC Service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15.203 FCC 47 CFR Part 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025.07.07	Refer to Photo Documentation		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004037230-001~003			
Prüfzeitraum: <i>Testing period:</i>	2025.07.08 - 2025.07.23			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2025.09.25		Ausstelldatum: <i>Issue date:</i>	2025.09.25
Stellung / Position:	Chonghai Liang/PE		Stellung / Position:	Keda Zhou/Authorizer
Sonstiges / Other:	FCC ID: 2ATK8-SH066			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* 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
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Anmerkungen Remarks

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 Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.

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.

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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.

*Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.*

Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.

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 115:2021, 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.

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 115:2021, 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.

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Test Summary

4.1.1 ANTENNA REQUIREMENT

Result:

Pass

4.1.2 6dB BANDWIDTH

Result:

Pass

4.1.3 MAXIMUM CONDUCTED OUTPUT POWER

Result:

Pass

4.1.4 POWER SPECTRAL DENSITY

Result:

Pass

4.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

Result:

Pass

4.1.6 CONDUCTED EMISSION (AC POWER-LINE)

Result:

Pass

4.1.7 RADIATED EMISSION

Result:

Pass

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1. Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland /CCIC (Ningbo) Co., Ltd.

1st Floor, Building 11, Scholar Innovation Park, No.1188 Zhongguan Road, Zhenhai District, Ningbo 315200 P.R. China

FCC Designation Number: CN1237

FCC Test Firm Registration Number: 647754

The tests were conducted by TÜV Rheinland/CCIC's engineer directly in the above laboratory.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Serial No.	Last cal. date	Cal. due date
EMI test receiver	ESR7	101929	2024.10.23	2025.10.22
Spectrum analyzer	FSV40	101412	2024.10.23	2025.10.22
Bilog Antenna	CBL6112D	49033	2024.03.17	2027.03.16
Horn antenna	HF907	102653	2023.07.20	2026.07.19
Broad-Band Horn Antenna	BBHA 9170	899	2024.01.05	2027.01.04
Pre-amplifier	SCU-18F	180051	2024.10.23	2025.10.22
Pre-amplifier	LNPA 1840G-50	SK2021040801	2024.10.28	2025.10.27
EMI test receiver	ESR3	102331	2024.10.23	2025.10.22
LISN	ENV216	102250	2024.10.23	2025.10.22
RF control Unit	JS0806-2	22G8060598	2024.10.25	2025.10.24
Mains control unit	JS0806-4ADC	21L8060536	2024.10.23	2025.10.22

1.3 Uncertainty of Measurement

Table 2: Measurement Uncertainty

Test Item	Expanded Measurement Uncertainty (k=2)
Conducted Emission (9-150kHz)	3.70dB
Conducted Emission (150k-30MHz)	3.30dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (30-1000MHz)	4.39dB
Radiated Emission (1-18GHz)	4.67dB

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2. General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is a Wireless Meat Thermometer (Deluxe Version) operated at 2400-2483.5MHz.

For more detail information, refer to the user's manual.

2.2 Ratings and System Details

Table 3: General Description of EUT

General Description of EUT	
Rated Input:	DC 5V, 1A
Battery:	Li-Ion 3.7V, 600mAh, 2.22Wh
Protection Class:	Class III
Technical Specification of Bluetooth LE	
Frequency Range:	2402 – 2480 MHz
Modulation Type:	GFSK
Channel Number:	40 channels
Data Rate:	1 Mbps
Antenna Type:	Ceramic Chip Antenna
Antenna Number:	1
Antenna Gain:	1.8 dBi

Table 4: RF Channel and Frequency of Bluetooth LE

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

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

2.3 Independent Operation Modes

The basic operation modes are:

- A. Bluetooth LE Transmitting continuously (Low / Middle / High channel)
- B. Normal Working
- C. Normal Charging

Refer to the user's manual for further information.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram for further information.

2.5 Submitted Documents

Circuit diagram, label, user manual etc.

3. Test Set-up and Operation Modes

3.1 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.

Refer to the related paragraph of this report.

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.

Refer to the related paragraph of this report.

3.2 Test Operation and Test Software

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer. The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

All testing were performed according to the procedures in ANSI C63.10: 2020.

Test Software EMC32 V10.30 was used in the radiated emission test.

More details refer to the related paragraph of this report.

3.3 Special Accessories and Auxiliary Equipment

Table 5: List of Auxiliary Equipment

Description	Manufacturer	Model No.
Adapter	Apple	A1443
Notebook	Lenovo	ThinkPad X380 Yoga

3.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Circuit Diagram. No additional measures were employed to achieve compliance.

3.5 Test set-up

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

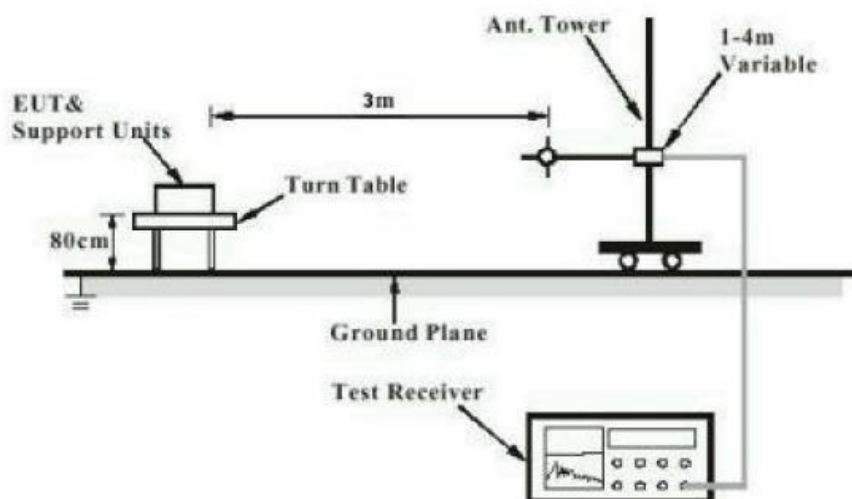


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

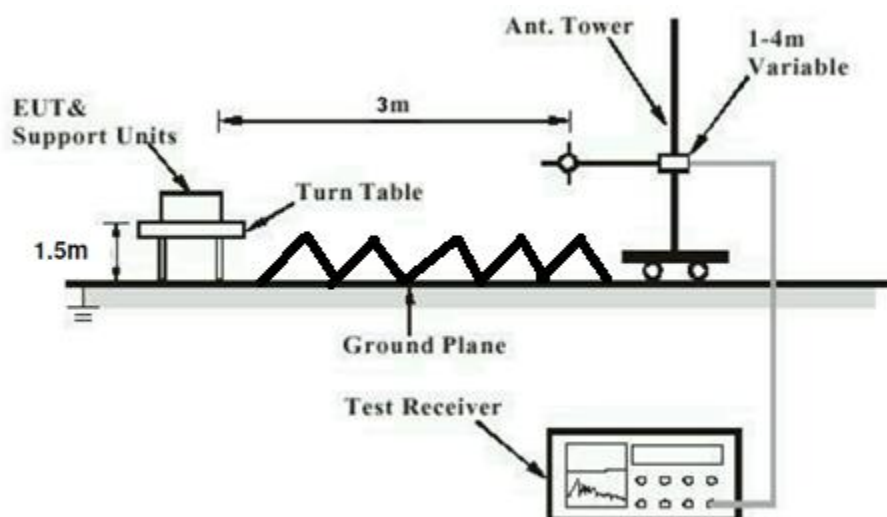
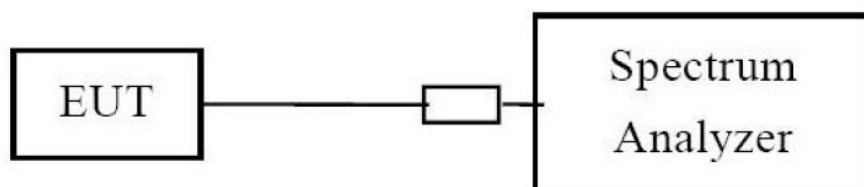


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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4. Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.203

Limit : the use of antennas with directional gains that do not exceed 6 dBi

The EUT has an integral antenna (Ceramic Chip Antenna, Antenna Gain: 1.8 dBi), and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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4.1.2 6dB Bandwidth

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.247 (a)(2)

Basic standard : ANSI C63.10: 2020, Clause 11.8.1

Limits : At least 500kHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.07.21

Input voltage : DC 5.0V

Operational mode : A

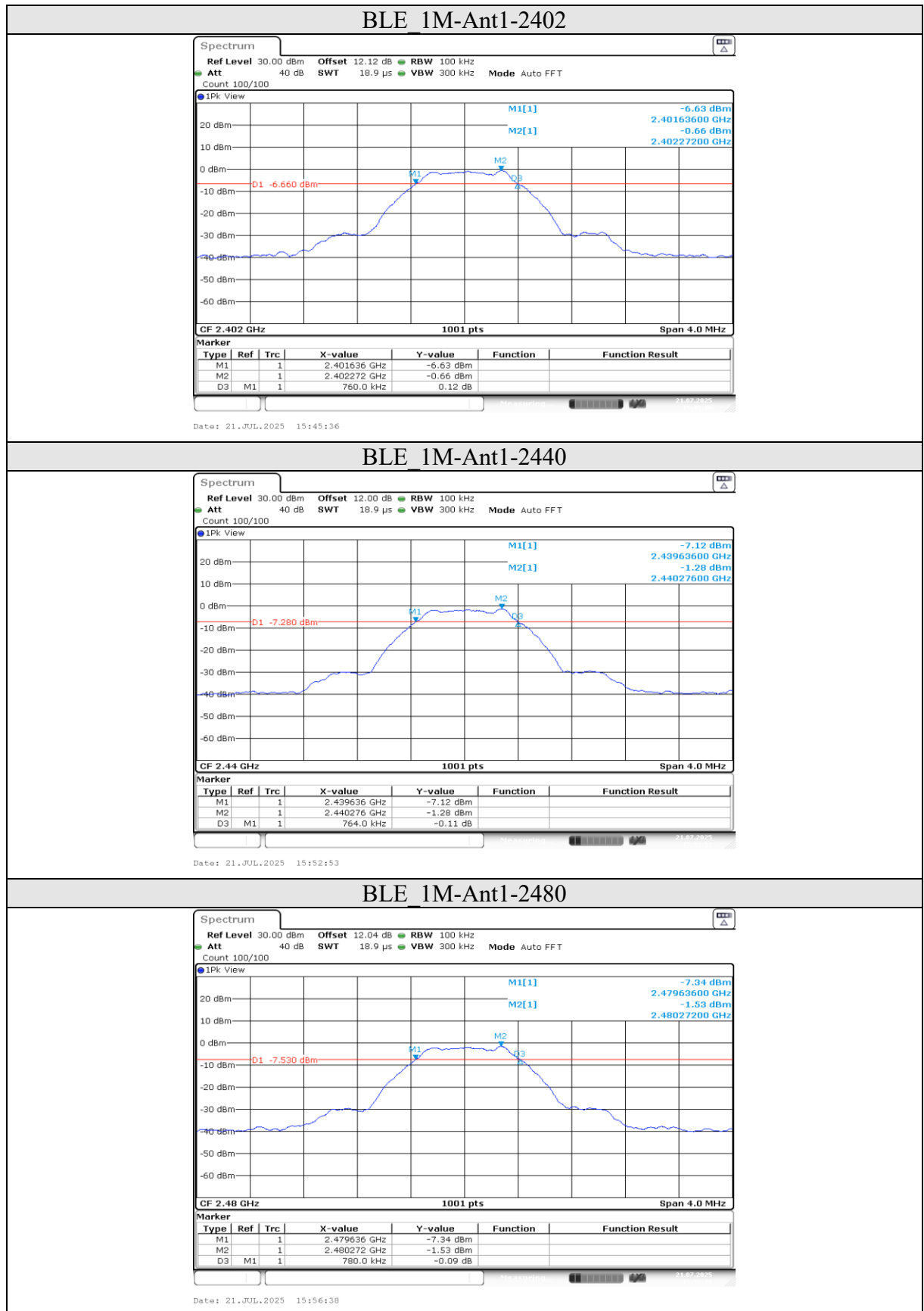
Temperature : 23.5°C

Relative humidity : 58%

Atmospheric pressure : 101.2 kPa

Table 6: Test result of 6dB Bandwidth

Test Mode	Frequency [MHz]	DTS BW [MHz]	F _L [MHz]	F _H [MHz]	Limit [MHz]	Verdict
BLE 1M	2402	0.76	2401.64	2402.40	≥0.5	PASS
BLE 1M	2440	0.76	2439.64	2440.40	≥0.5	PASS
BLE 1M	2480	0.78	2479.64	2480.42	≥0.5	PASS

Figure 1: 6dB Bandwidth


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4.1.3 Maximum Conducted Output Power

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.247 (b)(3)

Basic standard : ANSI C63.10: 2020, Clause 11.9.1.2

Limits : Not more than 1 Watt(30dBm)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.07.21

Input voltage : DC 5.0V

Operational mode : A

Temperature : 23°C

Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

Table 7: Test result of Maximum Conducted Output Power

Test Result Peak

Test Mode	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE 1M	2402	0.54	≤30.00	1.80	2.34	≤36.00	PASS
BLE 1M	2440	-0.11	≤30.00	1.80	1.69	≤36.00	PASS
BLE 1M	2480	-0.38	≤30.00	1.80	1.42	≤36.00	PASS

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4.1.4 Power Spectral Density

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.247 (e)

Basic standard : ANSI C63.10: 2020, Clause 11.10.3

Limits : Not more than 8 dBm in any 3 kHz band

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.07.21

Input voltage : DC 5.0V

Operational mode : A

Temperature : 23°C

Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

Table 8: Test result of Peak Power Spectral Density

Test Mode	Frequency [MHz]	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
BLE 1M	2402	-14.63	≤8.00	PASS
BLE 1M	2440	-15.26	≤8.00	PASS
BLE 1M	2480	-15.40	≤8.00	PASS

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4.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Result:
Pass
Test Specification

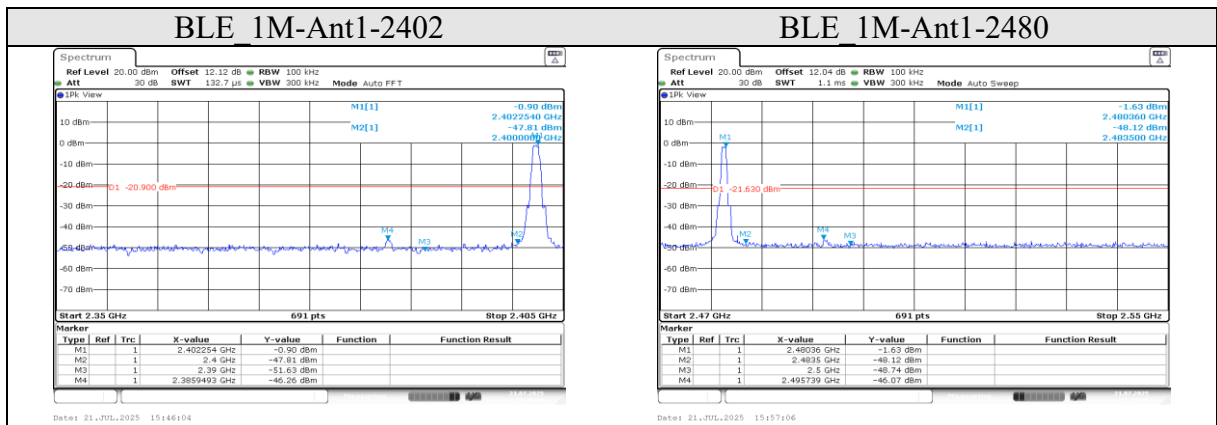
Test standard : FCC 47 CFR Part 15.247 (d)
 Basic standard : ANSI C63.10: 2020, Clause 11.11
 Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.07.21
 Input voltage : DC 5.0V
 Operational mode : A
 Temperature : 23°C
 Relative humidity : 56%
 Atmospheric pressure : 101.2 kPa

Table 9: Test result of Band Edge

Test Mode	Ch Name	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE 1M	Low	2402	-46.26	≤-20.90	PASS
BLE 1M	High	2480	-46.07	≤-21.63	PASS

Figure 2: Band Edge


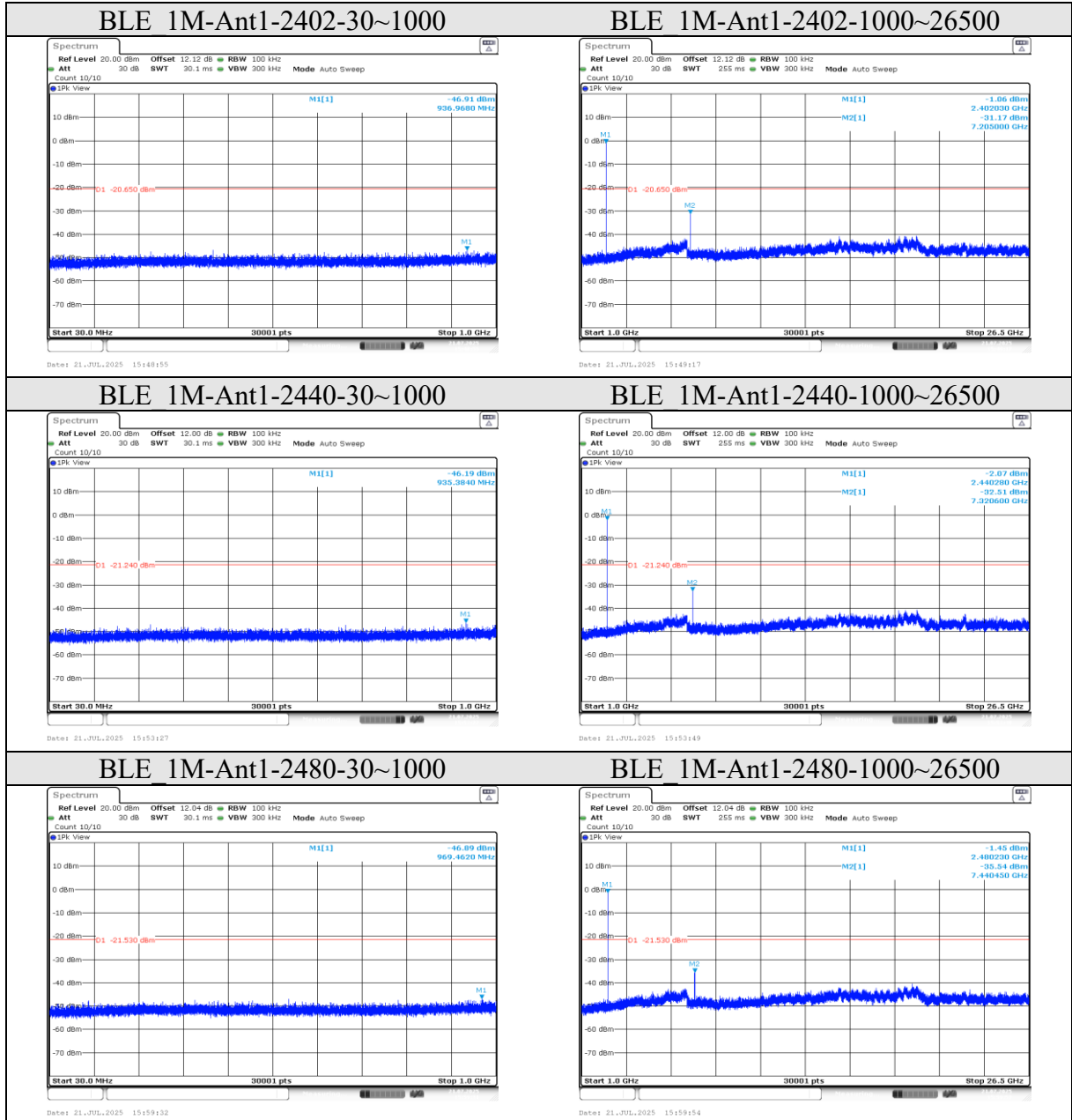
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Table 10: Test result of Conducted Spurious Emission

Test Mode	Frequency [MHz]	Freq Range [Mhz]	Result [dBm]	Limit [dBm]	Verdict
BLE 1M	2402	30~1000	-46.91	≤ -20.65	PASS
BLE 1M	2402	1000~26500	-31.17	≤ -20.65	PASS
BLE 1M	2440	30~1000	-46.19	≤ -21.24	PASS
BLE 1M	2440	1000~26500	-32.51	≤ -21.24	PASS
BLE 1M	2480	30~1000	-46.89	≤ -21.53	PASS
BLE 1M	2480	1000~26500	-35.54	≤ -21.53	PASS

Figure 3: Conducted Spurious Emission



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4.1.6 Conducted Emission (AC power-line)

Result:

Pass

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10: 2020, Clause 6.2
Port	: Mains
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielding Room

Test Setup

Date of testing	: 2025.07.23
Input voltage	: AC 110V to DC 5.0V
Operational mode	: C
Temperature	: 23°C
Relative humidity	: 58%
Atmospheric pressure	: 101.2 kPa

The measurement setup was made according to ANSI C63.10: 2020 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with ANSI C63.10: 2020 and CISPR 16-1 series standards.

The tested object was set-up on a wooden table. The EUT was set 0.8m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3m and 0.4m.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

Before measurement, a survey was made to determine in which state the maximum disturbance was obtained. And the measurement was made in the state the maximum disturbance was obtained.

The following figures and tables were those measured by an automatic measuring system. Both Quasi Peak and Average Value were measured. Quasi-Peak and Average Value were measured and listed respectively where they had a maximum in previous scanning survey. In the Figures, “•” means Quasi-Peak Value and Average Value which were measured in final measurement.

The measurement result is calculated based on the following formula by the test software:

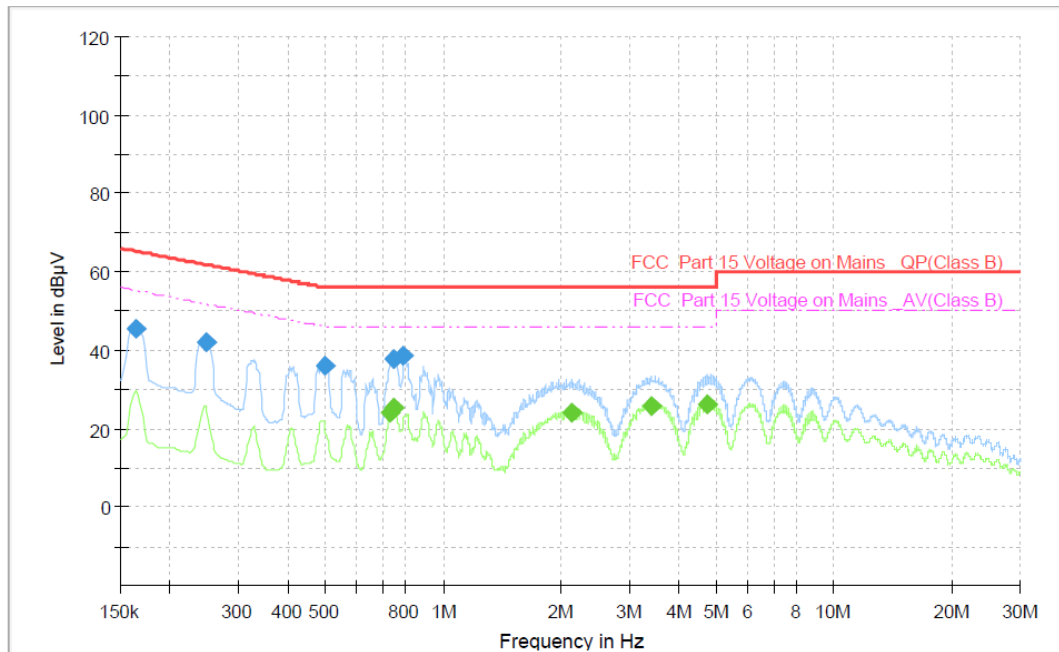
Emission Level = Reading level + Correction (LISN factor + cable loss)

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Figure 4: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, L

Full Spectrum

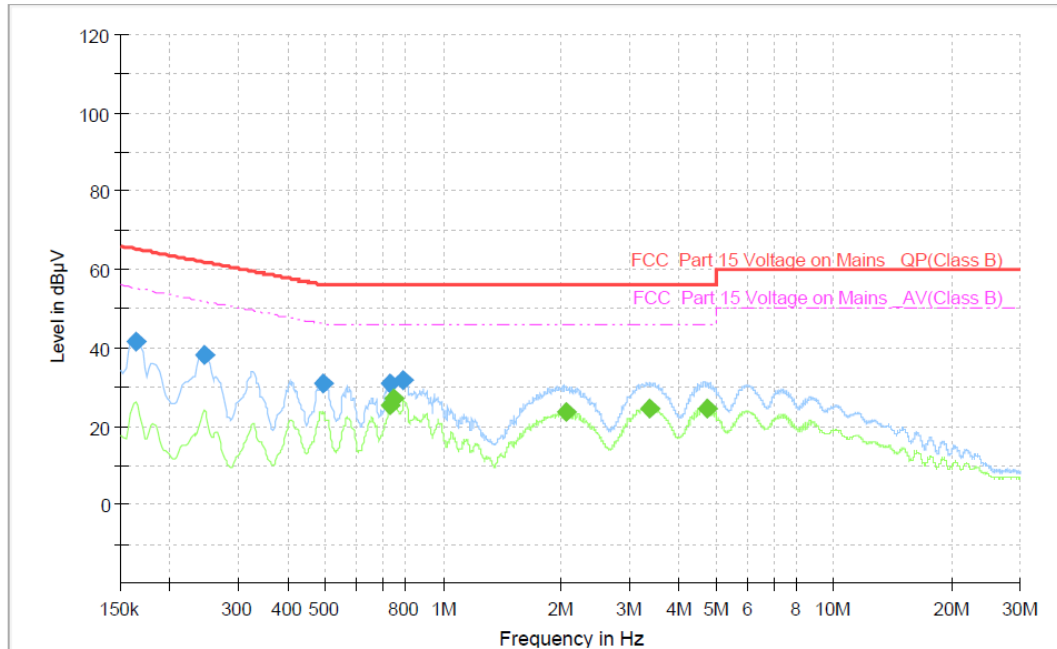


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.163500	45.61	---	65.28	19.68	1000.0	9.000	L1	ON	9.7
0.246750	41.95	---	61.87	19.92	1000.0	9.000	L1	ON	9.7
0.496500	36.04	---	56.06	20.02	1000.0	9.000	L1	ON	9.7
0.732750	---	23.98	46.00	22.02	1000.0	9.000	L1	ON	9.7
0.744000	---	25.54	46.00	20.46	1000.0	9.000	L1	ON	9.7
0.744000	37.74	---	56.00	18.26	1000.0	9.000	L1	ON	9.7
0.793500	38.75	---	56.00	17.25	1000.0	9.000	L1	ON	9.7
2.139000	---	24.19	46.00	21.81	1000.0	9.000	L1	ON	9.8
3.408000	---	25.71	46.00	20.29	1000.0	9.000	L1	ON	9.8
4.755750	---	26.42	46.00	19.58	1000.0	9.000	L1	ON	9.9

Figure 5: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, N

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.163500	41.73	---	65.28	23.56	1000.0	9.000	N	ON	9.6
0.244500	38.14	---	61.94	23.81	1000.0	9.000	N	ON	9.6
0.494250	30.85	---	56.10	25.25	1000.0	9.000	N	ON	9.6
0.728250	31.13	---	56.00	24.87	1000.0	9.000	N	ON	9.6
0.730500	---	25.27	46.00	20.73	1000.0	9.000	N	ON	9.6
0.744000	---	26.89	46.00	19.11	1000.0	9.000	N	ON	9.6
0.791250	31.65	---	56.00	24.35	1000.0	9.000	N	ON	9.7
2.053500	---	23.70	46.00	22.30	1000.0	9.000	N	ON	9.7
3.383250	---	24.53	46.00	21.47	1000.0	9.000	N	ON	9.8
4.737750	---	24.66	46.00	21.34	1000.0	9.000	N	ON	9.8

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4.1.7 Radiated Emission

Result:

Pass

Test Specification

Test standard : FCC Part 15.209(a)

Basic standard : ANSI C63.10: 2020, Clause 11.12

Port : Enclosure

Frequency range : 30MHz-10th Harmonic for intentional radiator

Limits : FCC Part 15.205(a)

FCC Part 15.209(a)

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025.07.21

Input voltage : DC 5.0V

Operational mode : A

Temperature : 23°C

Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

The result of Emissions in Restricted Bands:

The conducted measurement result in graph has considered the antenna gain.

The limit in dBm for average detector is conversion from 54dBuV/m using the following formula. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

$$E = EIRP - 20 \log d + 104.8$$

Where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

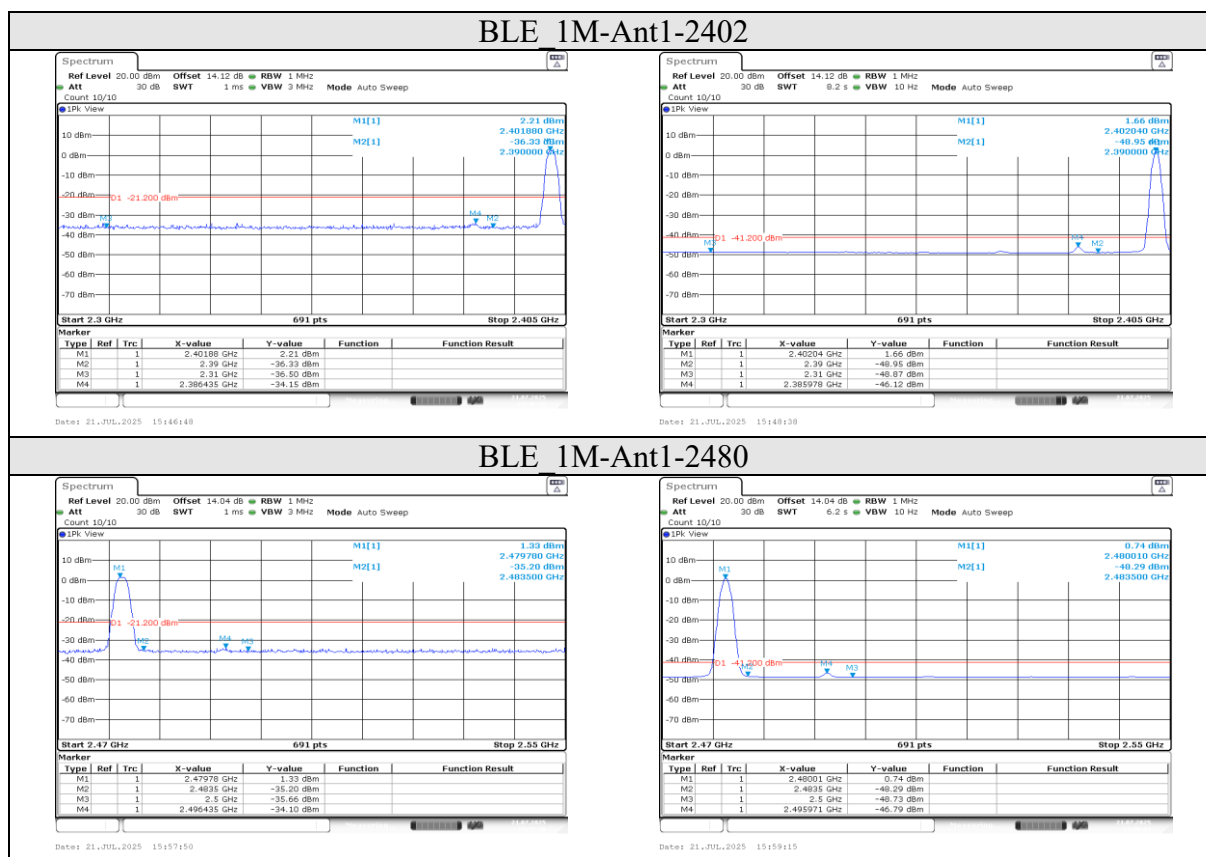
The result of Radiated Spurious Emission:

The radiated measurement result is calculated based on the following formula by the test software: Emission Level = Reading level + Correction (Antenna factor + Cable loss Preamplifier)

Remark: All the modes had been tested, but only the worst data was recorded in the report.

Table 11: Test result of Emissions in Restricted Bands

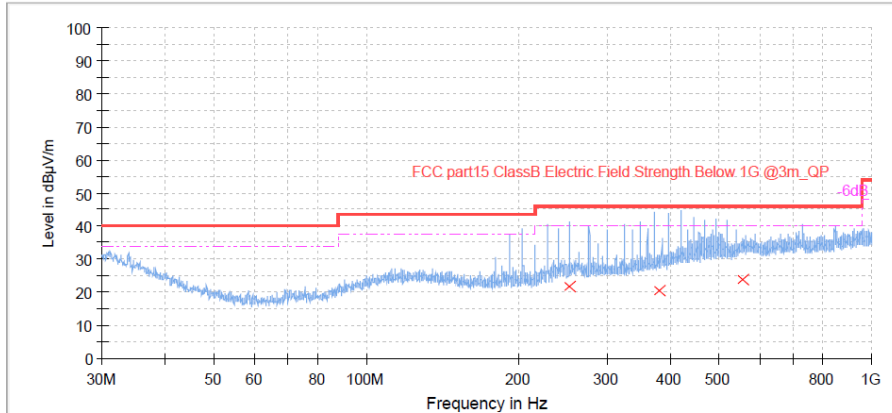
Test Mode	Freq. [MHz]	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE 1M	2402	Peak	2390.000	-36.33	≤-21.20	58.87	≤74	PASS
BLE 1M	2402	Peak	2310.000	-36.5	≤-21.20	58.70	≤74	PASS
BLE 1M	2402	Peak	2386.435	-34.15	≤-21.20	61.05	≤74	PASS
BLE 1M	2402	AV	2390.000	-48.95	≤-41.20	46.25	≤54	PASS
BLE 1M	2402	AV	2310.000	-48.87	≤-41.20	46.33	≤54	PASS
BLE 1M	2402	AV	2385.978	-46.12	≤-41.20	49.08	≤54	PASS
BLE 1M	2480	Peak	2483.500	-35.2	≤-21.20	60.00	≤74	PASS
BLE 1M	2480	Peak	2500.000	-35.66	≤-21.20	59.54	≤74	PASS
BLE 1M	2480	Peak	2496.435	-34.1	≤-21.20	61.10	≤74	PASS
BLE 1M	2480	AV	2483.500	-48.29	≤-41.20	46.91	≤54	PASS
BLE 1M	2480	AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
BLE 1M	2480	AV	2495.971	-46.79	≤-41.20	48.41	≤54	PASS

Figure 6: Emissions in Restricted Bands


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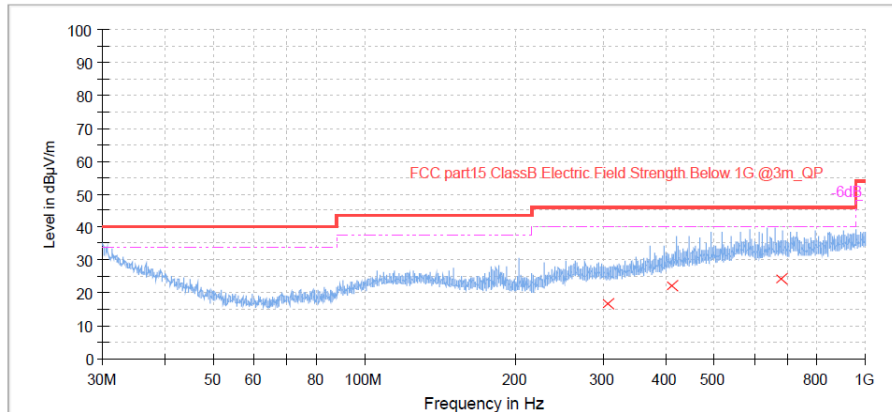
Figure 7: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2402MHz



Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
251.540000	21.8	1000.0	120.000	100.0	H	11.0	19.9	24.2	46.0
380.390000	20.5	1000.0	120.000	100.0	H	11.0	22.5	25.6	46.0
557.140000	23.9	1000.0	120.000	100.0	H	11.0	27.1	22.1	46.0

Figure 8: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2402MHz



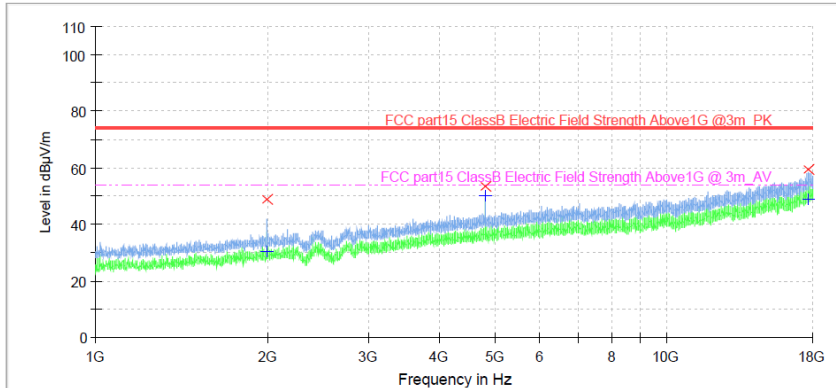
Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
305.320000	16.6	1000.0	120.000	100.0	V	11.0	20.7	29.4	46.0
409.650000	22.2	1000.0	120.000	100.0	V	11.0	23.8	23.8	46.0
676.990000	24.3	1000.0	120.000	100.0	V	11.0	27.3	21.7	46.0

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Figure 9: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2402MHz



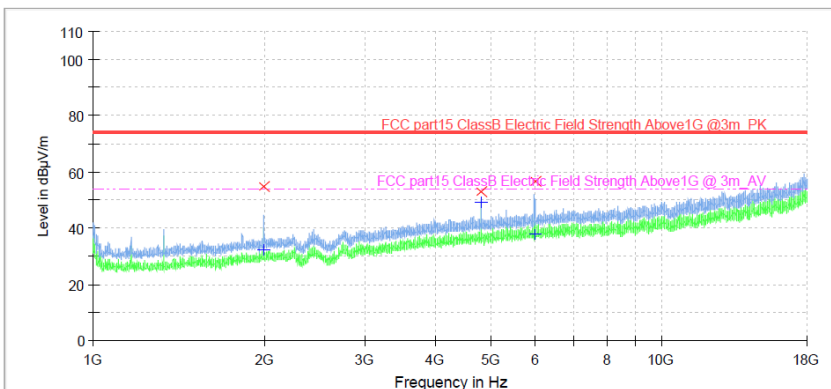
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1992.375000	48.7	1000.0	1000.000	150.0	H	0.0	-7.2	25.3	74.0
4804.280000	53.4	1000.0	1000.000	150.0	H	0.0	3.7	20.6	74.0
17698.250000	59.4	1000.0	1000.000	150.0	H	0.0	23.0	14.6	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1992.375000	30.2	1000.0	1000.000	150.0	H	0.0	-7.2	23.8	54.0
4804.280000	50.4	1000.0	1000.000	150.0	H	0.0	3.7	3.6	54.0
17698.250000	49.0	1000.0	1000.000	150.0	H	0.0	23.0	5.0	54.0

Figure 10: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2402MHz

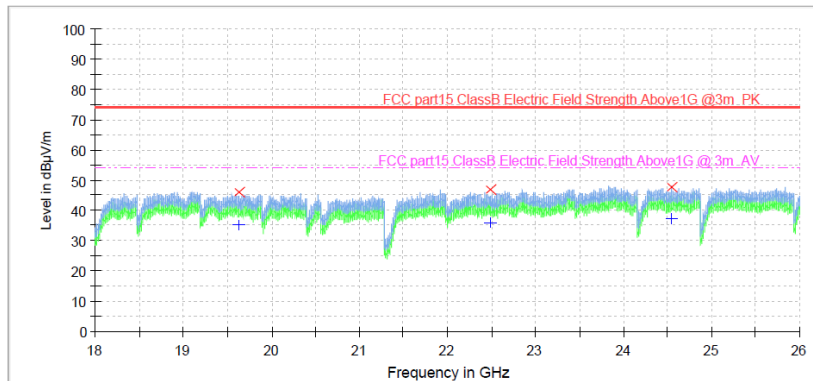


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1991.310000	55.0	1000.0	1000.000	150.0	V	166.0	-7.2	19.0	74.0
4803.750000	53.0	1000.0	1000.000	150.0	V	0.0	3.7	21.0	74.0
5978.345000	56.4	1000.0	1000.000	150.0	V	0.0	6.7	17.6	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1991.310000	32.1	1000.0	1000.000	150.0	V	166.0	-7.2	21.9	54.0
4803.750000	49.1	1000.0	1000.000	150.0	V	0.0	3.7	4.9	54.0
5978.345000	37.6	1000.0	1000.000	150.0	V	0.0	6.7	16.4	54.0

Figure 11: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2402MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19626.500000	46.0	1000.0	1000.000	150.0	H	0.0	-9.3	28.0	74.0
22486.750000	46.7	1000.0	1000.000	150.0	H	0.0	-6.3	27.3	74.0
24544.000000	47.8	1000.0	1000.000	150.0	H	0.0	-4.4	26.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19626.500000	35.1	1000.0	1000.000	150.0	H	0.0	-9.3	18.9	54.0
22486.750000	36.0	1000.0	1000.000	150.0	H	0.0	-6.3	18.0	54.0
24544.000000	37.0	1000.0	1000.000	150.0	H	0.0	-4.4	17.0	54.0

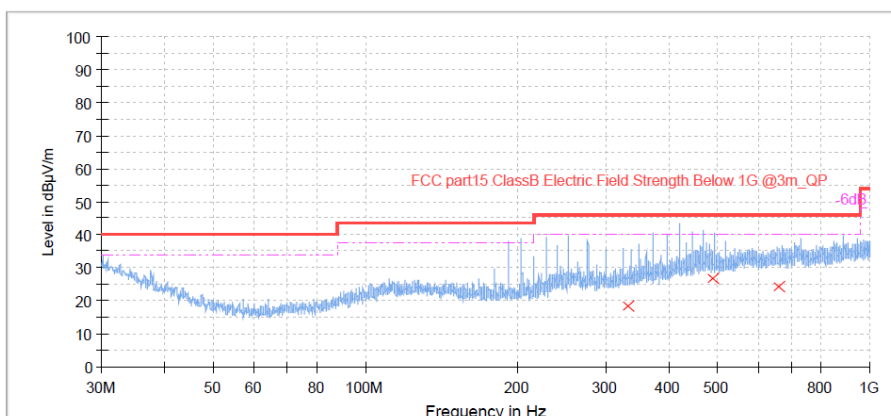
Figure 12: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2402MHz

Limit and Margin-PK

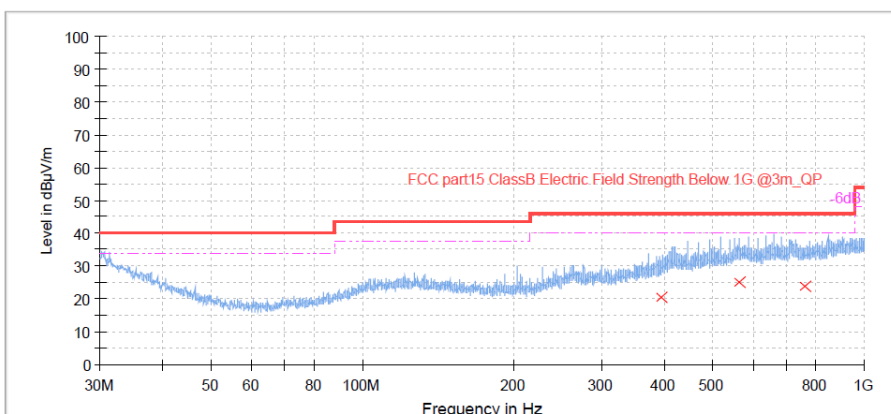
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19819.250000	45.3	1000.0	1000.000	150.0	V	0.0	-9.3	28.7	74.0
21083.000000	44.1	1000.0	1000.000	150.0	V	0.0	-8.8	29.9	74.0
23024.500000	46.8	1000.0	1000.000	150.0	V	0.0	-5.0	27.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19819.250000	34.4	1000.0	1000.000	150.0	V	0.0	-9.3	19.6	54.0
21083.000000	33.8	1000.0	1000.000	150.0	V	0.0	-8.8	20.2	54.0
23024.500000	35.9	1000.0	1000.000	150.0	V	0.0	-5.0	18.1	54.0

Figure 13: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2440MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
332.530000	18.4	1000.0	120.000	100.0	H	11.0	21.3	27.6	46.0
487.950000	26.7	1000.0	120.000	100.0	H	11.0	25.3	19.3	46.0
658.290000	24.1	1000.0	120.000	100.0	H	11.0	27.4	21.9	46.0

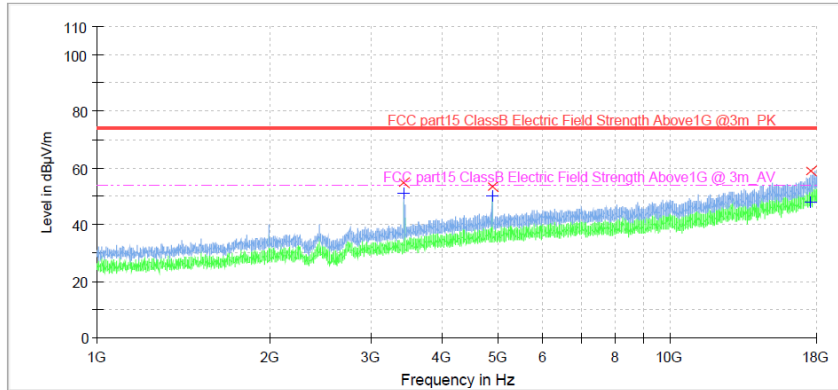
Figure 14: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2440MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
393.000000	20.5	1000.0	120.000	100.0	V	11.0	23.0	25.5	46.0
561.510000	25.1	1000.0	120.000	100.0	V	11.0	27.0	20.9	46.0
758.850000	23.9	1000.0	120.000	100.0	V	11.0	28.2	22.1	46.0

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Figure 15: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2440MHz



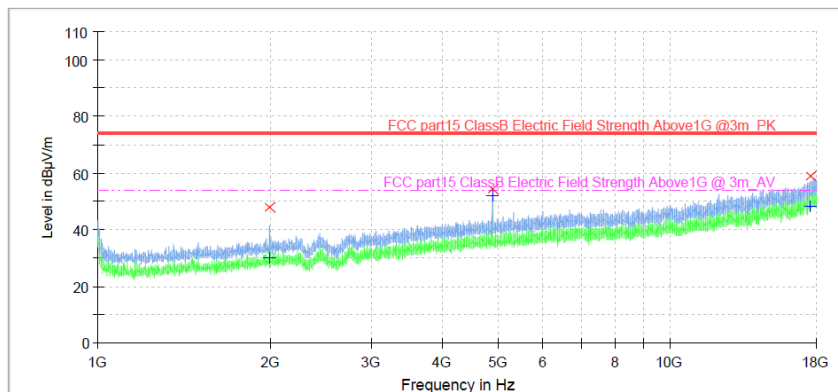
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3417.185000	54.9	1000.0	1000.000	150.0	H	0.0	0.0	19.1	74.0
4879.720000	53.4	1000.0	1000.000	150.0	H	0.0	3.9	20.6	74.0
17583.500000	59.1	1000.0	1000.000	150.0	H	0.0	22.5	14.9	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3417.185000	51.2	1000.0	1000.000	150.0	H	0.0	0.0	2.8	54.0
4879.720000	50.1	1000.0	1000.000	150.0	H	0.0	3.9	3.9	54.0
17583.500000	48.1	1000.0	1000.000	150.0	H	0.0	22.5	6.0	54.0

Figure 16: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2440MHz

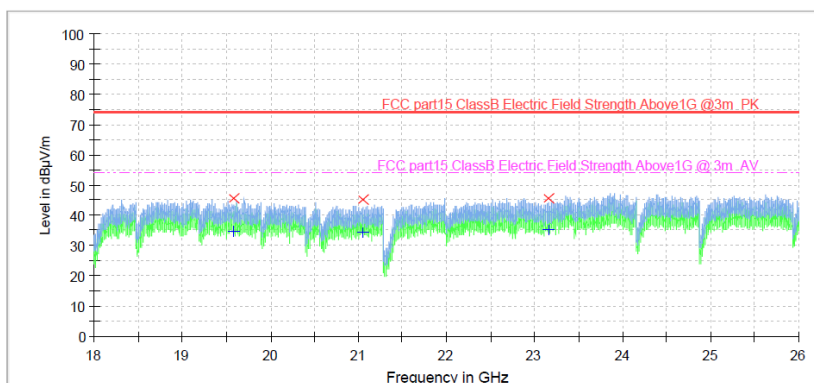


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1993.435000	47.8	1000.0	1000.000	150.0	V	0.0	-7.2	26.2	74.0
4880.250000	54.3	1000.0	1000.000	150.0	V	0.0	3.9	19.7	74.0
17587.220000	58.8	1000.0	1000.000	150.0	V	0.0	22.5	15.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1993.435000	29.8	1000.0	1000.000	150.0	V	0.0	-7.2	24.2	54.0
4880.250000	51.9	1000.0	1000.000	150.0	V	0.0	3.9	2.1	54.0
17587.220000	48.3	1000.0	1000.000	150.0	V	0.0	22.5	5.7	54.0

Figure 17: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2440MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19575.750000	45.8	1000.0	1000.000	150.0	H	0.0	-9.3	28.2	74.0
21046.500000	45.0	1000.0	1000.000	150.0	H	0.0	-8.8	29.0	74.0
23159.000000	45.8	1000.0	1000.000	150.0	H	0.0	-4.9	28.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19575.750000	34.7	1000.0	1000.000	150.0	H	0.0	-9.3	19.3	54.0
21046.500000	34.2	1000.0	1000.000	150.0	H	0.0	-8.8	19.8	54.0
23159.000000	35.2	1000.0	1000.000	150.0	H	0.0	-4.9	18.8	54.0

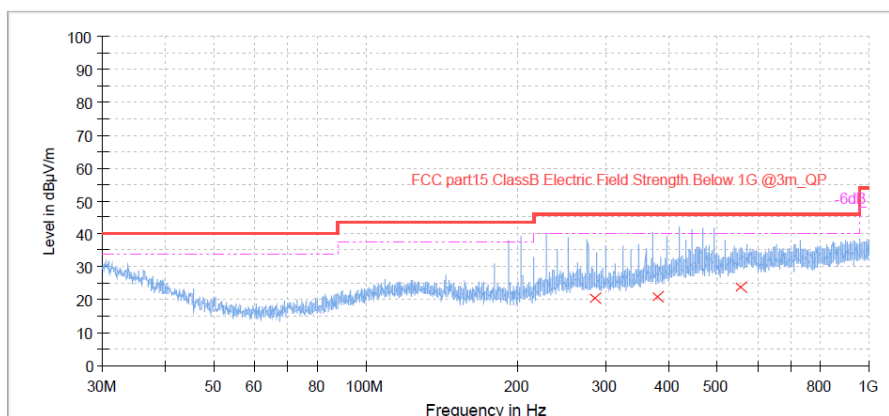
Figure 18: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2440MHz

Limit and Margin-PK

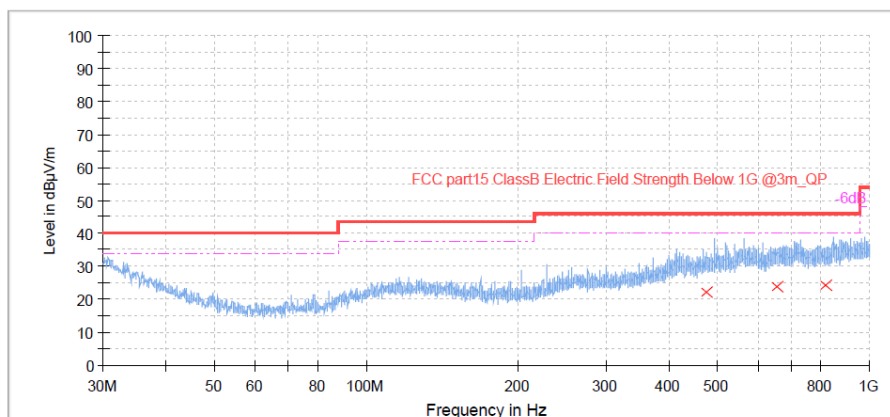
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19446.250000	45.1	1000.0	1000.000	150.0	V	0.0	-9.3	28.9	74.0
21044.500000	44.7	1000.0	1000.000	150.0	V	0.0	-8.8	29.3	74.0
23235.500000	46.6	1000.0	1000.000	150.0	V	0.0	-4.8	27.4	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19446.250000	34.4	1000.0	1000.000	150.0	V	0.0	-9.3	19.6	54.0
21044.500000	34.1	1000.0	1000.000	150.0	V	0.0	-8.8	19.9	54.0
23235.500000	36.1	1000.0	1000.000	150.0	V	0.0	-4.8	17.9	54.0

Figure 19: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal, BLE 1M 2480MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
285.000000	20.6	1000.0	120.000	100.0	H	11.0	20.1	25.4	46.0
379.250000	21.0	1000.0	120.000	100.0	H	11.0	22.5	25.0	46.0
554.070000	24.0	1000.0	120.000	100.0	H	11.0	27.2	22.1	46.0

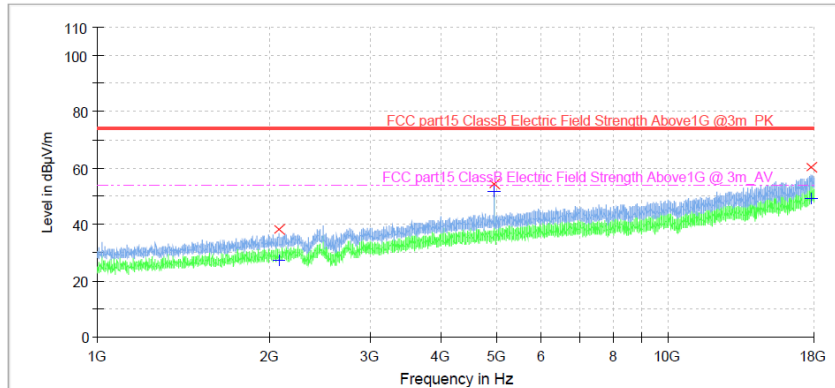
Figure 20: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical, BLE 1M 2480MHz

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
473.560000	22.1	1000.0	120.000	100.0	V	11.0	25.1	24.0	46.0
653.870000	24.0	1000.0	120.000	100.0	V	11.0	27.3	22.0	46.0
818.180000	24.1	1000.0	120.000	100.0	V	11.0	28.4	21.9	46.0

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Figure 21: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Horizontal, BLE 1M 2480MHz



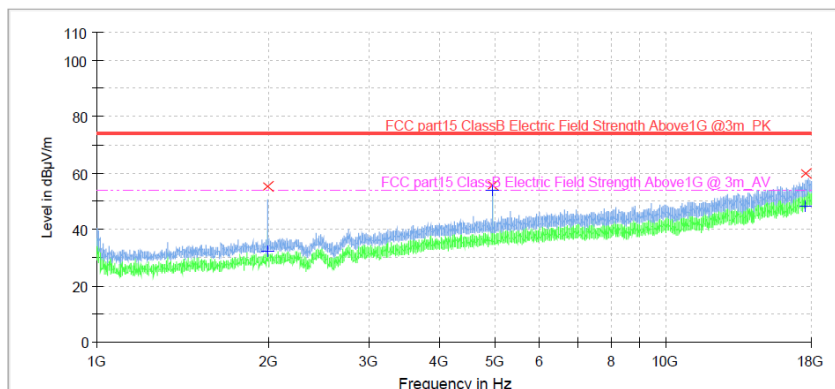
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2073.125000	38.0	1000.0	1000.000	150.0	H	0.0	-6.7	36.0	74.0
4959.935000	54.1	1000.0	1000.000	150.0	H	0.0	4.2	19.9	74.0
17756.155000	60.2	1000.0	1000.000	150.0	H	0.0	23.2	13.8	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2073.125000	27.3	1000.0	1000.000	150.0	H	0.0	-6.7	26.7	54.0
4959.935000	51.5	1000.0	1000.000	150.0	H	0.0	4.2	2.5	54.0
17756.155000	49.4	1000.0	1000.000	150.0	H	0.0	23.2	4.6	54.0

Figure 22: Spectral Diagrams, Radiated Emission, 1GHz-18GHz, Vertical, BLE 1M 2480MHz

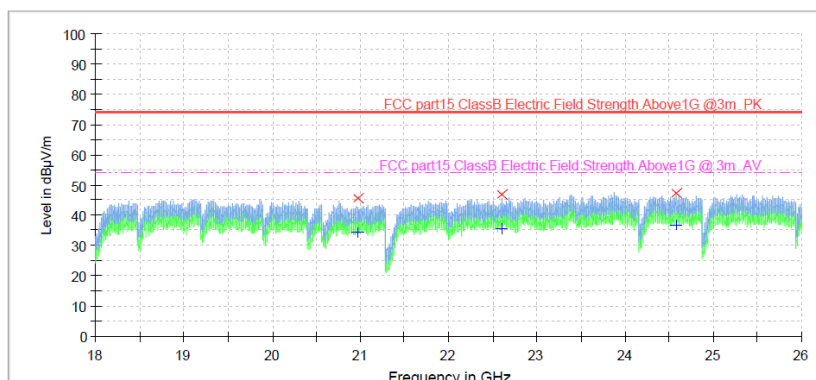


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1994.500000	55.1	1000.0	1000.000	150.0	V	308.0	-7.2	19.0	74.0
4959.935000	55.6	1000.0	1000.000	150.0	V	0.0	4.2	18.5	74.0
17555.875000	59.9	1000.0	1000.000	150.0	V	328.0	22.4	14.2	74.0

Limit and Margin-AV

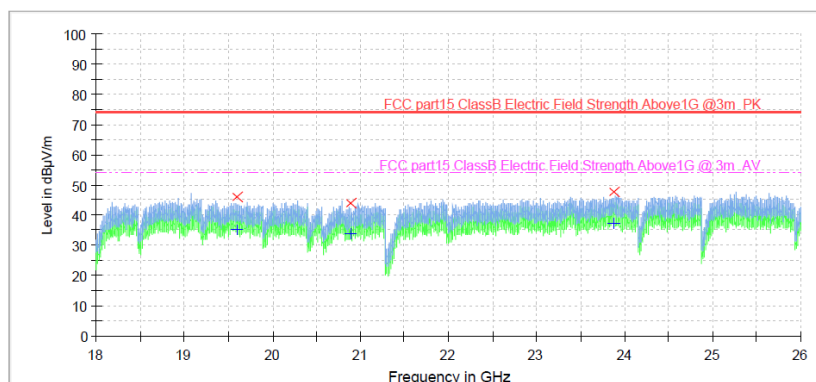
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1994.500000	32.3	1000.0	1000.000	150.0	V	308.0	-7.2	21.7	54.0
4959.935000	53.6	1000.0	1000.000	150.0	V	0.0	4.2	0.4	54.0
17555.875000	48.5	1000.0	1000.000	150.0	V	328.0	22.4	5.5	54.0

Figure 23: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Horizontal, BLE 1M 2480MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
20971.750000	45.8	1000.0	1000.000	150.0	H	0.0	-8.9	28.2	74.0
22597.000000	47.0	1000.0	1000.000	150.0	H	0.0	-6.0	27.0	74.0
24574.250000	47.2	1000.0	1000.000	150.0	H	0.0	-4.4	26.8	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20971.750000	34.2	1000.0	1000.000	150.0	H	0.0	-8.9	19.8	54.0
22597.000000	35.6	1000.0	1000.000	150.0	H	0.0	-6.0	18.4	54.0
24574.250000	36.9	1000.0	1000.000	150.0	H	0.0	-4.4	17.1	54.0

Figure 24: Spectral Diagrams, Radiated Emission, 18GHz-26GHz, Vertical, BLE 1M 2480MHz

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19596.250000	46.2	1000.0	1000.000	150.0	V	0.0	-9.3	27.8	74.0
20893.000000	43.9	1000.0	1000.000	150.0	V	0.0	-8.9	30.1	74.0
23877.750000	47.8	1000.0	1000.000	150.0	V	0.0	-4.5	26.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19596.250000	35.3	1000.0	1000.000	150.0	V	0.0	-9.3	18.7	54.0
20893.000000	33.7	1000.0	1000.000	150.0	V	0.0	-8.9	20.3	54.0
23877.750000	37.3	1000.0	1000.000	150.0	V	0.0	-4.5	16.7	54.0

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