

July 24, 2026

Next Meters Global
Brett Jepsen
73 S Gateway Dr
Providence, UT 84332

Dear Brett Jepsen,

Enclosed is the Electromagnetic Compatibility for the Next Meters Global, LLC, NextConnect, tested to the requirements of:

- FCC Part 15 Subpart C §15.247 (per KDB 558074 D01 15.247 Meas Guidance v05r02; ANSI C63.10: 2020)
- Innovation, Science, and Economic Development (ISED) Canada RSS-247 Issue 4

Thank you for using the services of Eurofins E&E Testing NA, LLC. Please contact me if you have any questions regarding these results or if Eurofins E&E can be of further service to you.

Sincerely,

Rheine Nguyen

Documentation Department
Eurofins E&E Testing NA, LLC.

Reference: WIRS141361-FCC 15.247_BLE



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Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	July 24, 2026	Initial Issue.

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1.0 Testing Summary

The Next Meters Global, LLC, NextConnect (NC5) was found to be compliant to the following specification(s).

- FCC Part 15 Subpart C §15.247 (per KDB 558074 D01 15.247 Meas Guidance v05r02; ANSI C63.10: 2020)
- RSS-247 Issue 4



Chin Ming Lui
Senior Wireless Test Engineer

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements.



Kevin Nguyen
Senior Wireless Test Engineer

Summary of Tests

Test Item	FCC Part	Industry Canada	Result
6 dB Bandwidth	§15.247(a)(2)	RSS-247, 6.3.1	Complies
99% Occupied Bandwidth	-	RSS-GEN	Complies
Maximum Conducted Output Power	§15.247(b)(3)	RSS-247, 6.3.2	Complies
Power Spectral Density	§15.247(e)	RSS-247, 6.3.1	Complies
Conducted Spurious Emissions	§15.247(d)	RSS-247, 6.6	Complies
Band-Edge	§15.247(d)	RSS-247, 6.6	Complies
Transmitter Radiated Emissions	§15.247(d), §15.209, §15.205	RSS-247, 6.6	Complies
Antenna Requirement	§15.203	RSS-GEN	Complies

2.0 Overview

Eurofins E&E Testing NA, LLC. was contracted by Next Meters Global, LLC to perform testing on the NextConnect (NC5), under purchase order number PO-NM7391.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of Next Meters Global, LLC, NextConnect (NC5).

The results obtained relate only to the item(s) tested.

Model(s) Tested:	NextConnect (NC5)
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2.1 Test Site

All testing was performed at Eurofins E&E Testing NA, LLC., 3162 Belick St. Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. Eurofins E&E Testing NA, LLC. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

2.2 FCC ID and IC

FCC ID: 2A8EC-NC5, **Contains FCC ID:** 2ANPO00NRF9151
IC: 28950-NC5, **Contains IC:** 24529-NRF9151

2.3 Measurement Uncertainty

Measurement uncertainty calculated as per NIST Technical Note (TN) 1297 and ANSI / NCSL Z540-2, as equivalent to EN 55016-4-2 / IEC CISPR 16-4-2.

Test Method	Typical Expanded Uncertainty (dB)	K	Confidence Level
Radiated Emissions, (30 MHz – 1 GHz)	±4.61	2	95%
Radiated Emissions, (1 GHz – 18 GHz)	±4.63	2	95%
Radiated Emissions, (18 GHz – 40 GHz)	±4.22	2	95%
Conducted Emission Voltage	±3.03	2	95%
Conducted Emission Telecom	±3.87	2	95%

2.4 Equipment Overview and Test Configuration

Name of EUT/Model:	NextConnect (NC5)
Additional Models Covered, but not tested:	N/A
Description of EUT and Intended Use:	The NextConnect (NC5) is a universal 5G LTE-M cellular meter endpoint. Capable of supporting fixed-network, walk-by, drive-by, and cellular applications, it's designed to scale metering deployments with the simplicity of a single device.
Mode(s) of Operation:	BLE: 1 Mbps and 2 Mbps ISM: FHSS
Configuration(s):	Test mode
EUT Power Requirement	
Voltage:	3.6V
AC or DC	DC
Voltage Frequency:	0 Hz
Number of Phases:	N/A
Amperage:	N/A
Uses an external AC/DC Adapter:	No
Battery Return Configuration (DC-C, DC-I, or either):	DC-I
Physical Description	
EUT Arrangement:	Mounted
System with Multiple Chassis:	N/A
Size (HxWxD) inches:	Height: 5.45 in, Outer Diameter: 3.93 in, Inner Diameter: 1.65 in
Weight (lbs):	0.7
Emissions Class Declaration:	B
Other Info:	
Highest frequency used in device:	2480 MHz (highest channel frequency of BLE radio)
EUT Software (internal to EUT):	Custom firmware by Next Meters Global, LLC
Support Software (used by support PC to exercise EUT):	PuTTY

Note: EUT information was provided by Next Meters Global, LLC.

Equipment Configuration List

N/A

Support Equipment List

N/A

Ports and Cabling List

N/A

Antenna Information

Radio	Antenna Type	Manufacturer	Part No	Frequency Range	Peak Gain
BLE	PCB Trace	Next Meters Global, LLC	N/A	2400 – 2483.5 MHz	-1.0 dBi
ISM	SMD	Antenova	SR4L099	698 – 960 MHz	0.15 dBi

Note: Antenna information was provided by Next Meters Global, LLC. Eurofins E&E Testing NA, LLC did not test or verify the accuracy of the antenna information.

Test Configuration

The BLE radio was configured to low, middle, and high channels for both 1 Mbps and 2 Mbps data rates.

Channel	Frequency (MHz)	Power Setting
0	2402	+8 dBm
19	2440	+8 dBm
39	2480	+8 dBm

2.5 Modifications to the EUT

No modifications were made to the EUT.

2.6 Modifications to the Standard

No modifications were made to the Test Standard.

2.7 Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to Next Meters Global, LLC upon completion of testing.

3.0 Electromagnetic Compatibility Criteria for Intentional Radiators

3.1 Antenna-Port Conducted Measurements

Test Method: ANSI C63.10: 2020; FCC KDB 558074 D01 15.247 Meas Guidance v05r02

Test Requirements: The following standards are covered under this test:

- FCC Part 15 Subpart C §15.247
- ISSED RSS-247 Issue 4 Sections 6.3 & 6.6

Test Procedure: The EUT was configured to operate in continuous transmission mode on BLE channels using its lowest, middle, and highest frequencies (2402 MHz, 2440 MHz, and 2480 MHz) for both 1 Mbps and 2 Mbps data rates.

- Conducted measurements were performed at the antenna port of the EUT using a spectrum analyzer. Procedures for testing DTS devices operating in the 2400 MHz to 2483.5 MHz band per Section 11 of ANSI C63.10: 2020 were followed.
- The reference level was set based on the peak power of the fundamental channel.
- Emissions outside the 2400-2483.5 MHz band were measured and compared to the 20 dB attenuation requirement per FCC §15.247(d) and RSS-247 Section 6.6, using a resolution bandwidth (RBW) of 100 kHz and video bandwidth (VBW) of 300 kHz.
- Measurement traces were recorded for each tested channel.

Test Results:

Test Standard:	FCC Part 15 Subpart C §15.247 (Per FCC KDB 558074 D01 15.247 Meas Guidance v05r02; ANSI C63.10-2020) ISSED RSS-247 Issue 4 Sections 6.3 & 6.6
Test Name	Antenna-Port Conducted Measurements
Test Dates:	07/06/2026
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Chin Ming Lui
Test Results:	Compliant

Test Data (FCC 15.247 & RSS-247 Antenna-Port Conducted Measurements)

3.2.1 Duty Cycle

Data Rate	Frequency (MHz)	Channel	Duty Cycle	Duty Cycle Correction Factor
1 Mbps	2402	Low	100%	0
2 Mbps	2402	Low	100%	0

Table 1. Duty Cycle Test Results



Figure 1. Duty Cycle: Low Channel, 2402 MHz, BLE 1 Mbps Plot



Figure 2. Duty Cycle: Low Channel, 2402 MHz, BLE 2 Mbps Plot

3.2.2 6dB DTS Bandwidth

Data Rate	Frequency (MHz)	Channel	Measured 6dB BW (kHz)	Minimum 6dB BW (kHz)
1 Mbps	2402	Low	754.2	≥ 500
	2440	Mid	754.2	≥ 500
	2480	High	754.2	≥ 500
2 Mbps	2402	Low	1353.6	≥ 500
	2440	Mid	1353.6	≥ 500
	2480	High	1348.7	≥ 500

Table 2. 6dB DTS Bandwidth Test Results



Figure 3. 6dB DTS Bandwidth: Low Channel, 2402 MHz, BLE 1 Mbps Plot



Figure 4. 6dB DTS Bandwidth: Mid Channel, 2440 MHz, BLE 1 Mbps Plot



Figure 5. 6dB DTS Bandwidth: High Channel, 2480 MHz, BLE 1 Mbps Plot

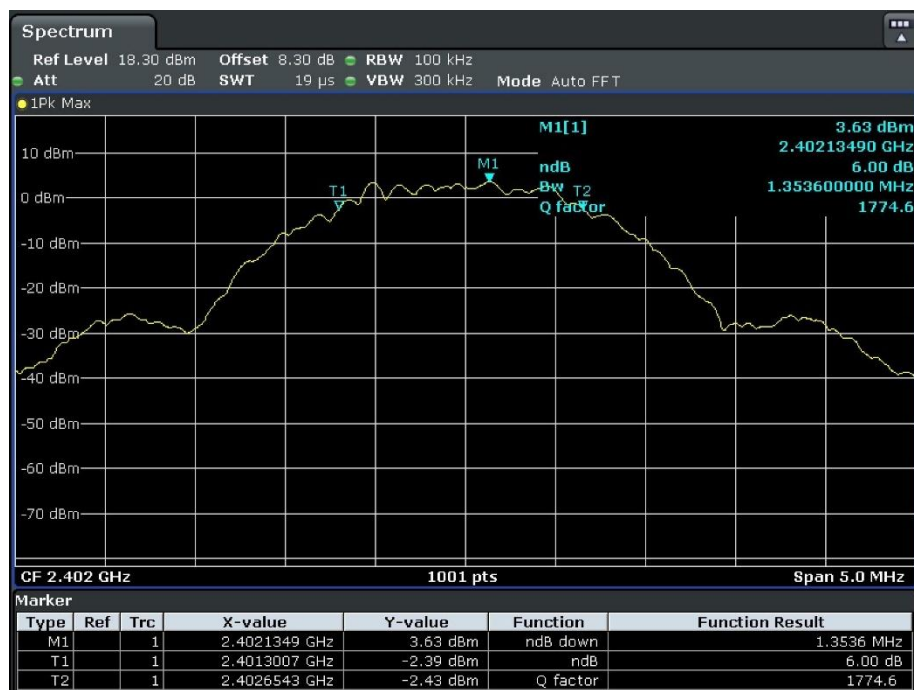


Figure 6. 6dB DTS Bandwidth: Low Channel, 2402 MHz, BLE 2 Mbps Plot

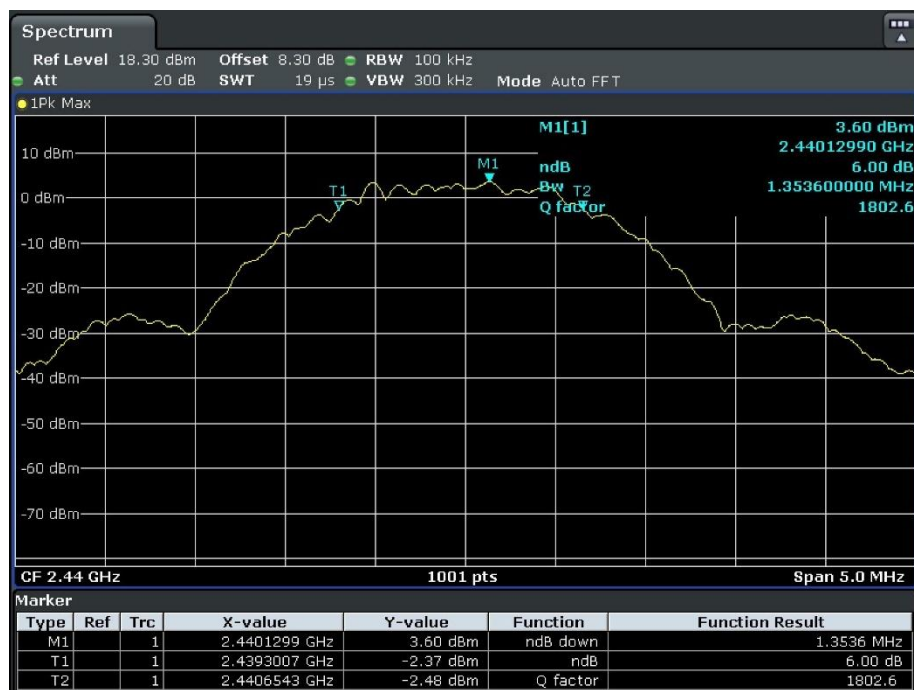


Figure 7. 6dB DTS Bandwidth: Mid Channel, 2440 MHz, BLE 2 Mbps Plot

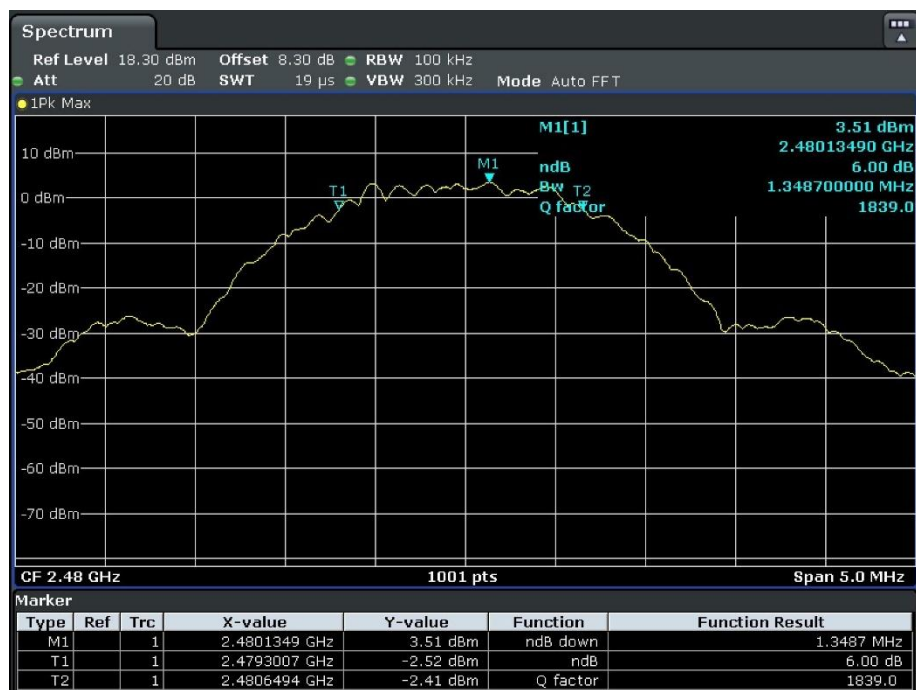


Figure 8. 6dB DTS Bandwidth: High Channel, 2480 MHz, BLE 2 Mbps Plot

3.2.3 99% Occupied Bandwidth

Data Rate	Frequency (MHz)	Channel	99% OBW (MHz)
1 Mbps	2402	Low	1.0689
	2440	Mid	1.0689
	2480	High	1.0689
2 Mbps	2402	Low	2.1129
	2440	Mid	2.1129
	2480	High	2.1029

Table 3. 99% Occupied Bandwidth Test Results

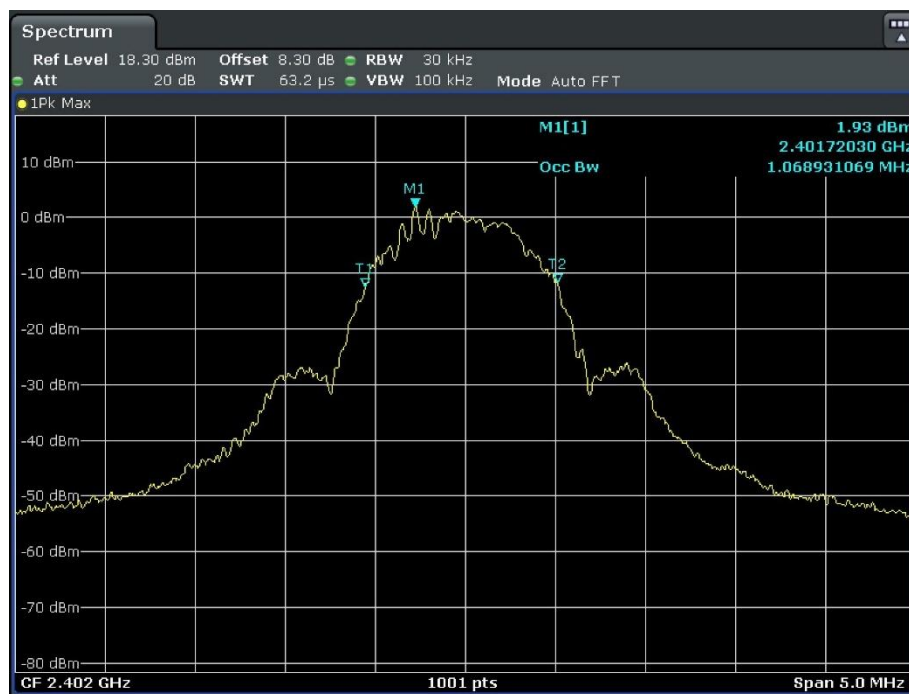


Figure 9. 99% OBW: Low Channel, 2402 MHz, BLE 1 Mbps Plot

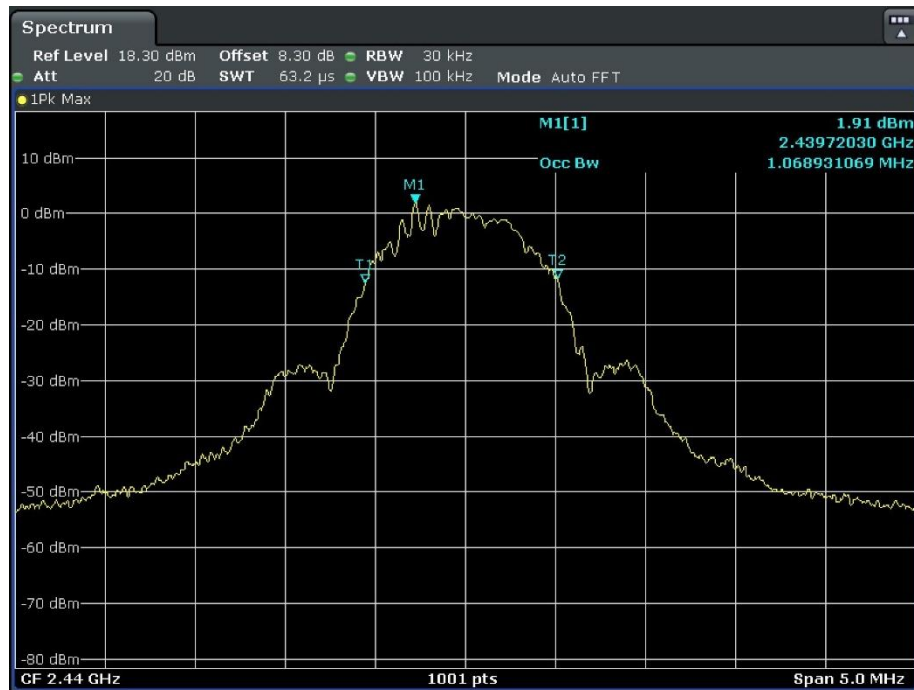


Figure 10. 99% OBW: Mid Channel, 2440 MHz, BLE 1 Mbps Plot

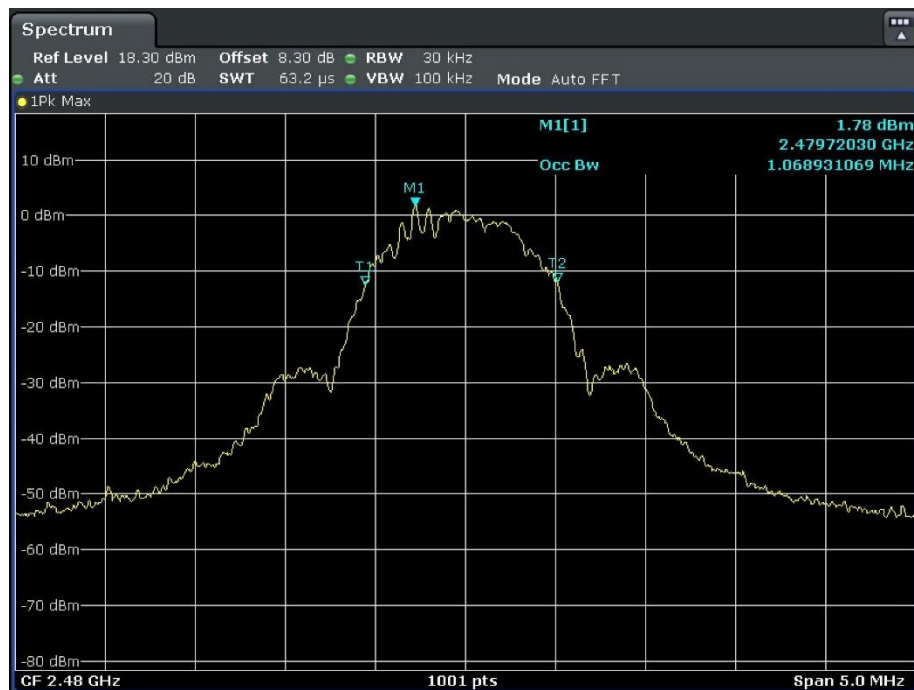


Figure 11. 99% OBW: High Channel, 2480 MHz, BLE 1 Mbps Plot

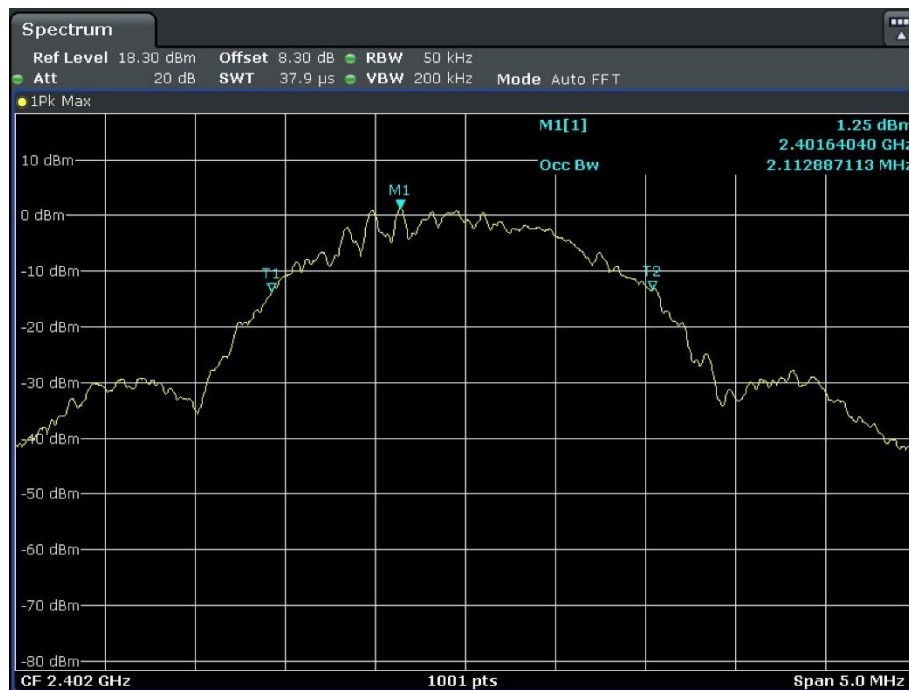


Figure 12. 99% OBW: Low Channel, 2402 MHz, BLE 2 Mbps Plot

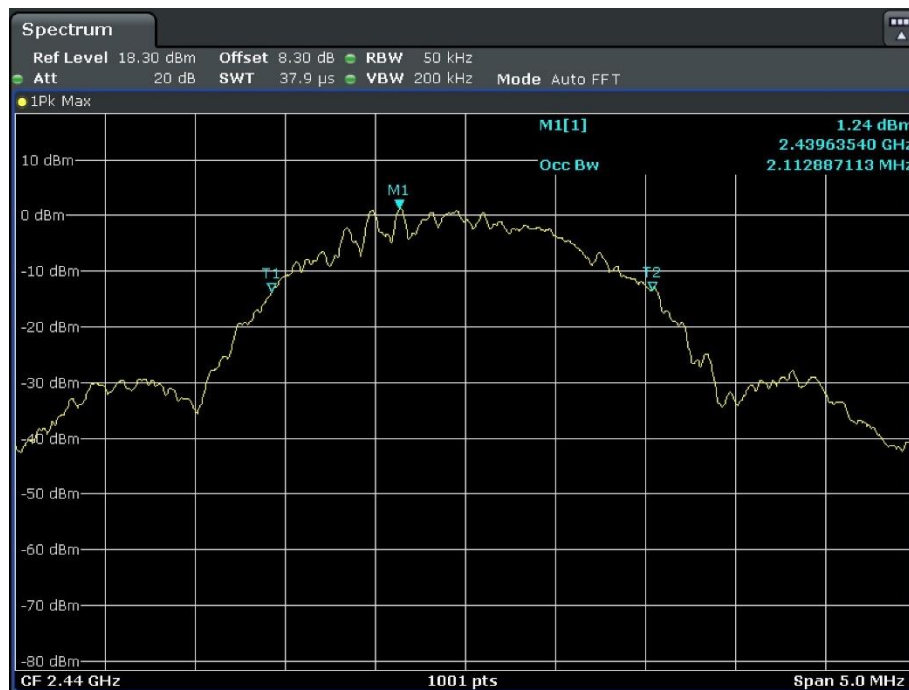


Figure 13. 99% OBW: Mid Channel, 2440 MHz, BLE 2 Mbps Plot

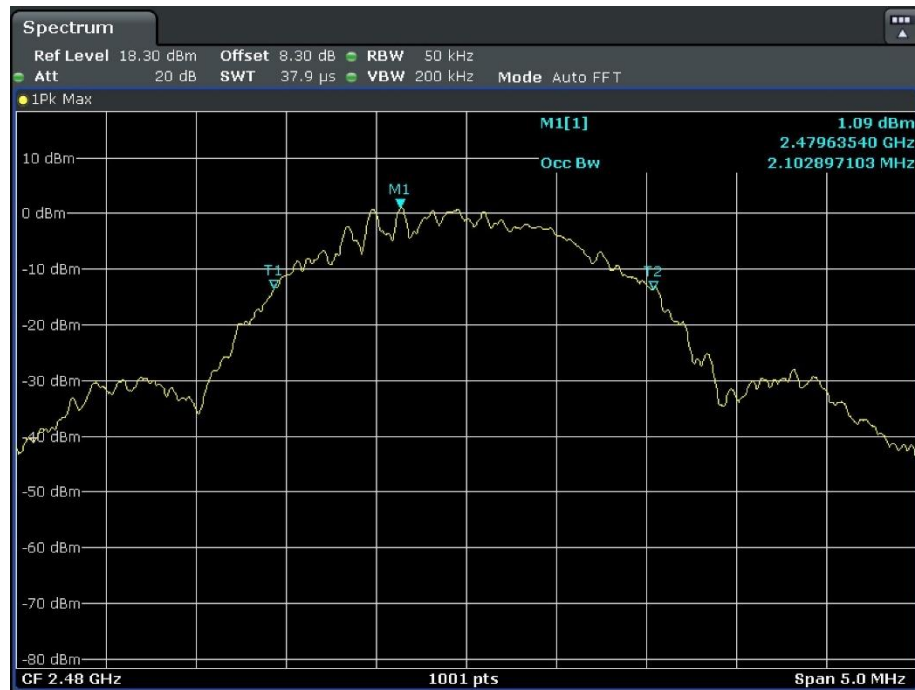


Figure 14. 99% OBW: High Channel, 2480 MHz, BLE 2 Mbps Plot

3.2.4 Maximum Peak Conducted Output Power

Data Rate	Frequency (MHz)	Channel	Measured Max Peak Conducted Output Power (dBm)	Max Peak Conducted Output Power Limit (dBm)
1 Mbps	2402	Low	6.67	30
	2440	Mid	6.64	30
	2480	High	6.51	30
2 Mbps	2402	Low	6.69	30
	2440	Mid	6.70	30
	2480	High	6.55	30

Table 4. Maximum Peak Conducted Output Power Test Results

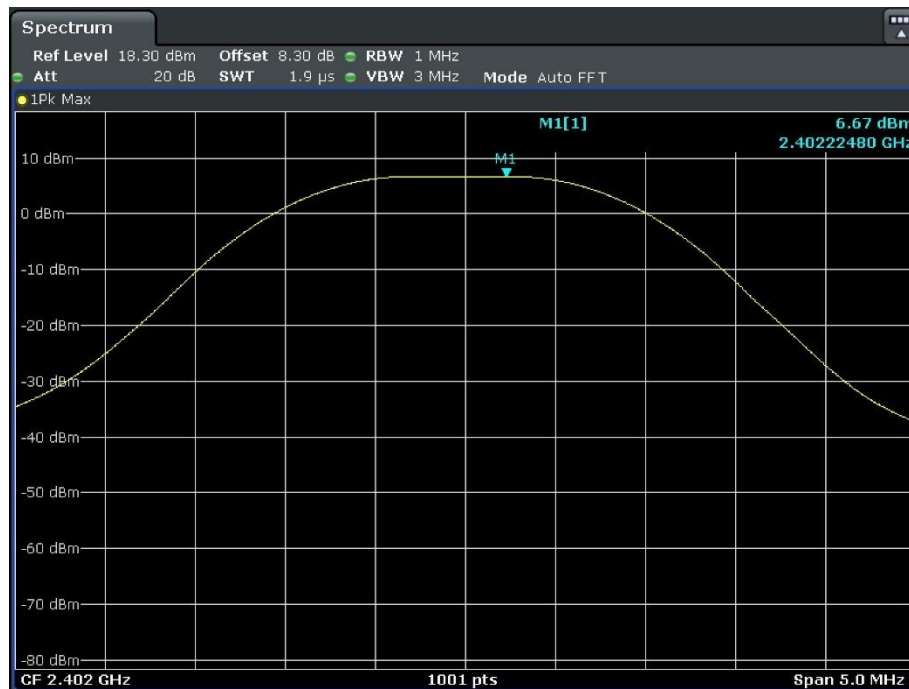


Figure 15. Maximum Peak Conducted Output Power: Low Channel, 2402 MHz, BLE 1 Mbps Plot

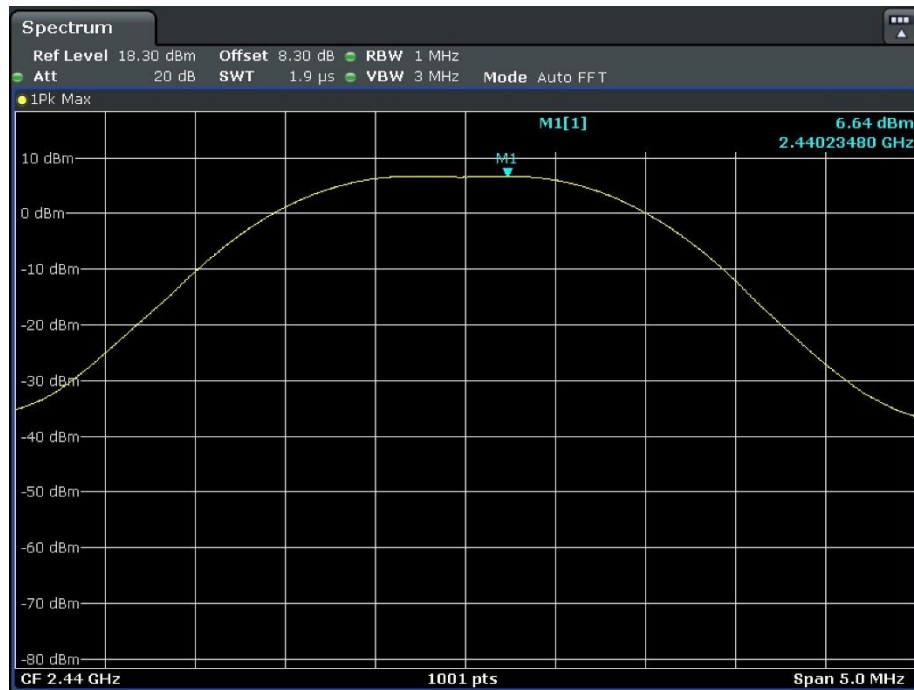


Figure 16. Maximum Peak Conducted Output Power: Mid Channel, 2440 MHz, BLE 1 Mbps Plot

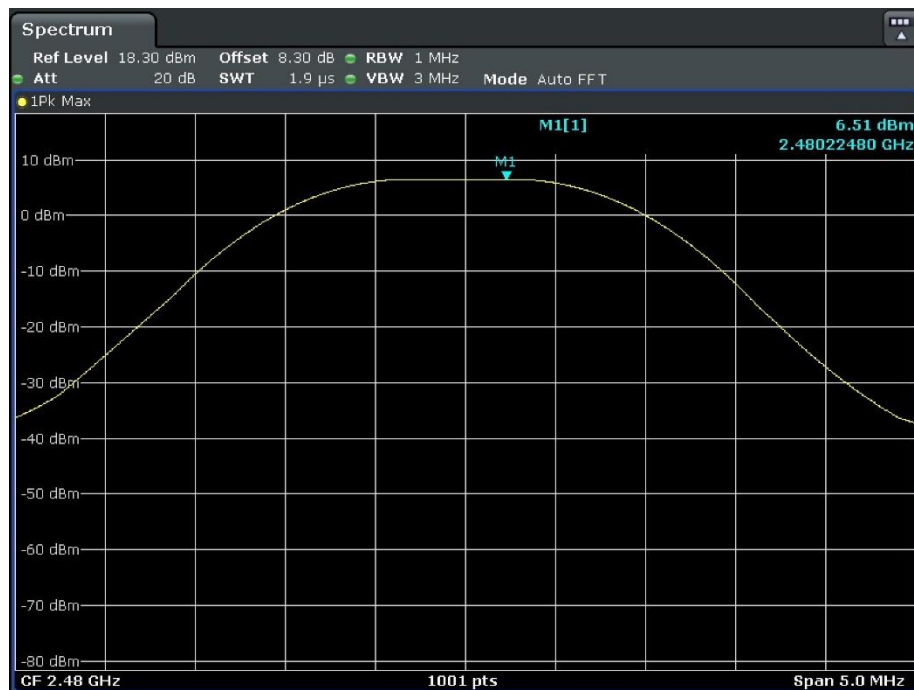


Figure 17. Maximum Peak Conducted Output Power: High Channel, 2480 MHz, BLE 1 Mbps Plot

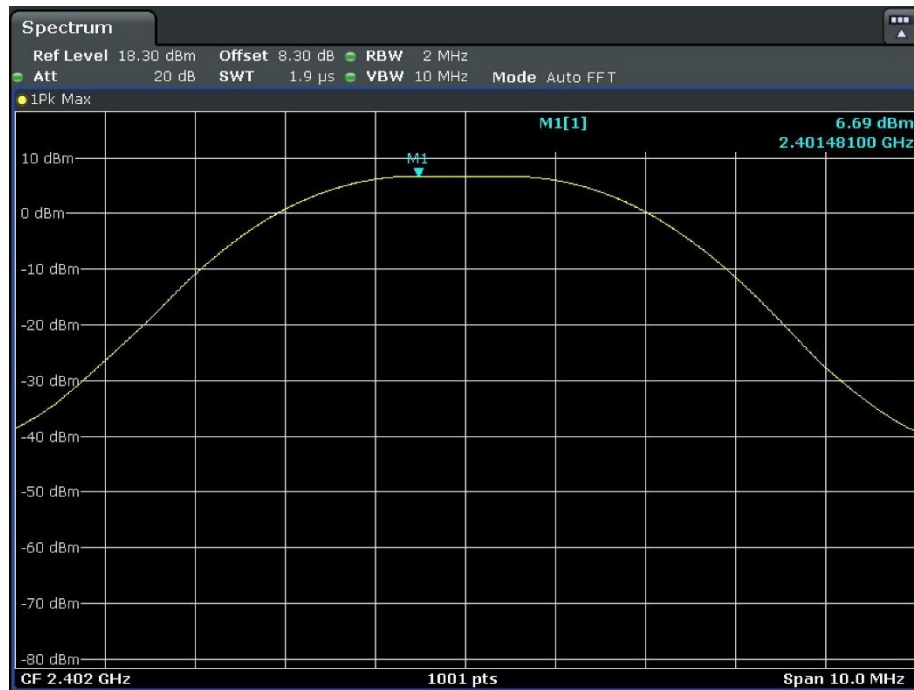


Figure 18. Maximum Peak Conducted Output Power: Low Channel, 2402 MHz, BLE 2 Mbps Plot

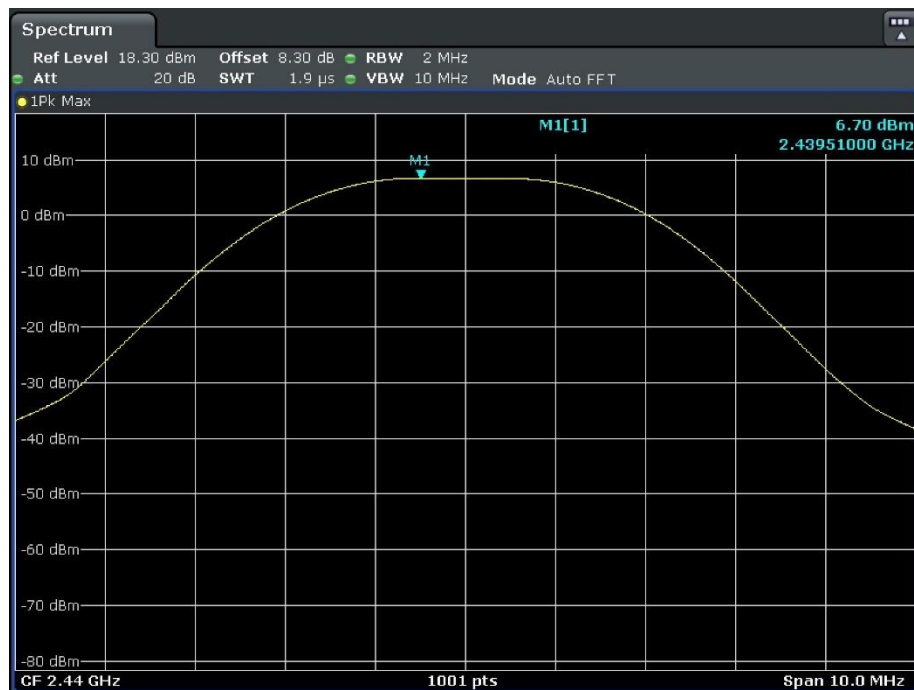


Figure 19. Maximum Peak Conducted Output Power: Mid Channel, 2440 MHz, BLE 2 Mbps Plot

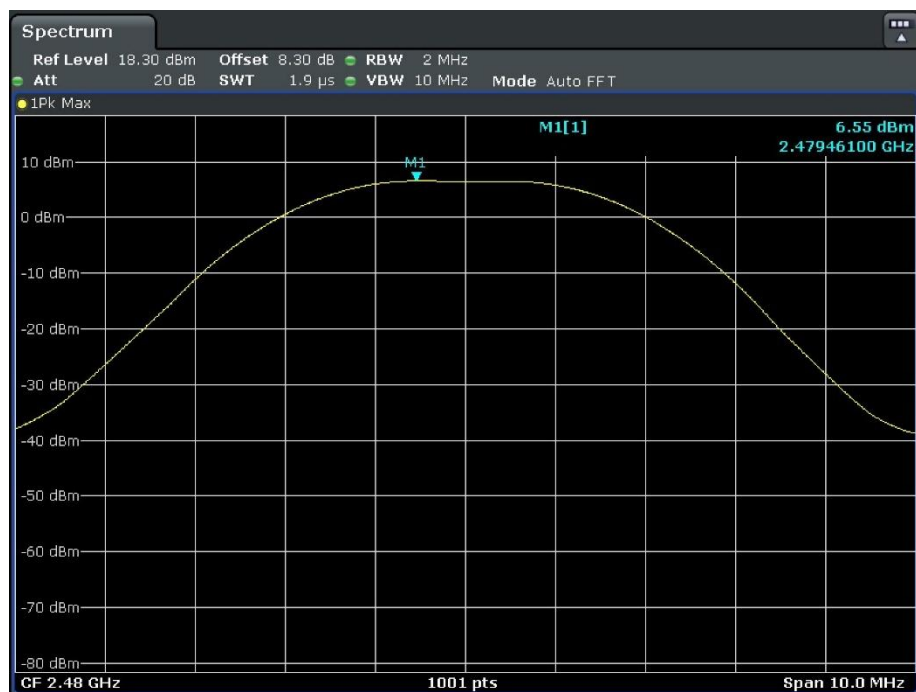


Figure 20. Maximum Peak Conducted Output Power: High Channel, 2480 MHz, BLE 2 Mbps Plot

3.2.5 Maximum Peak Power Spectral Density Test Results

Data Rate	Frequency (MHz)	Channel	Measured Max Peak Conducted Power Spectral Density (dBm / 3 kHz)	Max Peak Conducted Power Spectral Density Limit (dBm / 3 kHz)
1 Mbps	2402	Low	-11.18	8
	2440	Mid	-11.18	8
	2480	High	-11.35	8
2 Mbps	2402	Low	-11.45	8
	2440	Mid	-11.46	8
	2480	High	-11.60	8

Table 5. Maximum Peak Power Spectral Density Test Results

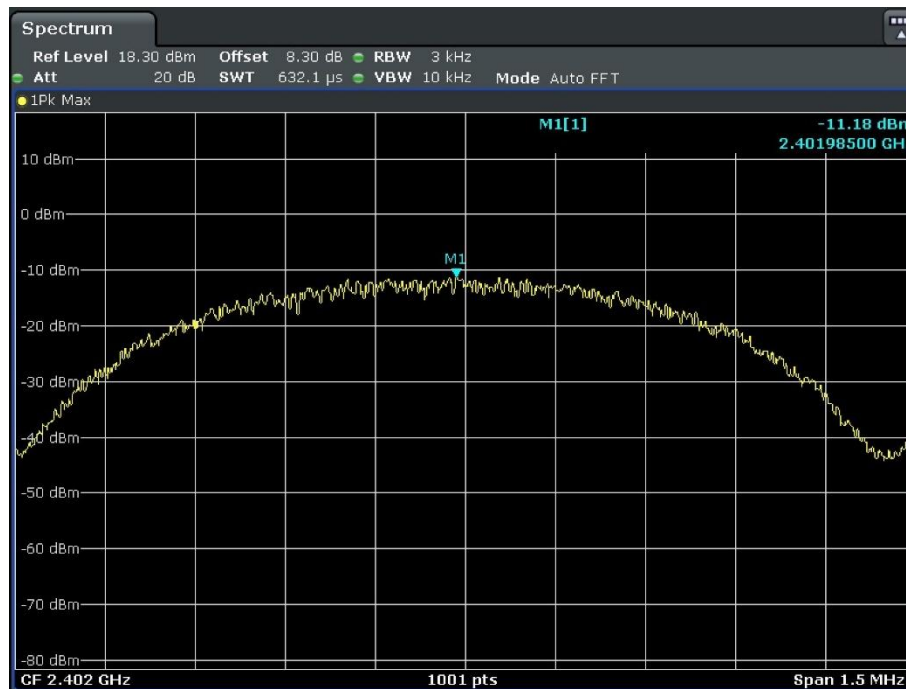


Figure 21. Maximum Peak Power Spectral Density: Low Channel, 2402 MHz, BLE 1 Mbps Plot

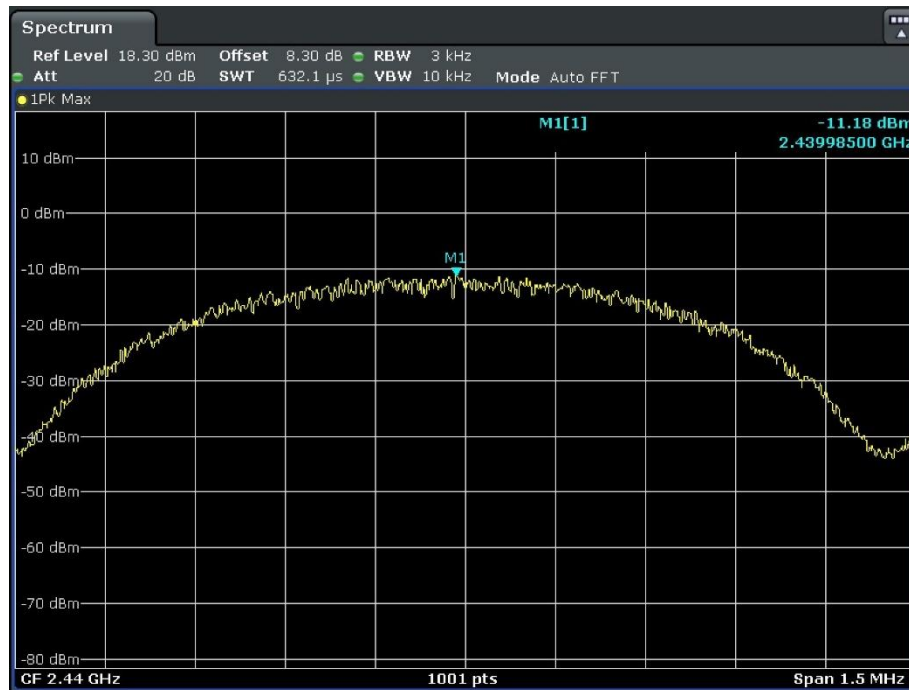


Figure 22. Maximum Peak Power Spectral Density: Mid Channel, 2440 MHz, BLE 1 Mbps Plot

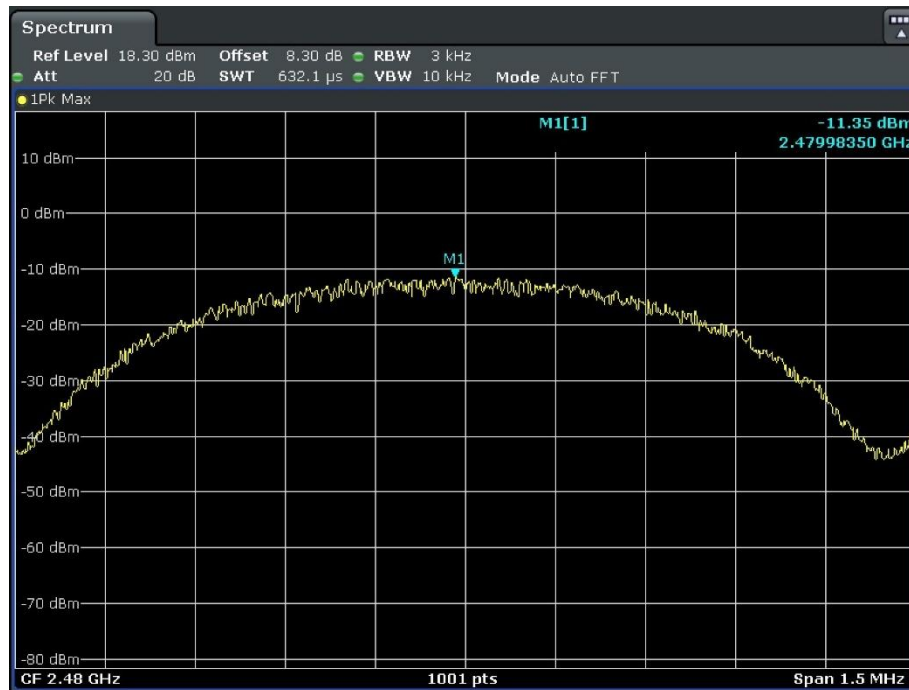


Figure 23. Maximum Peak Power Spectral Density: High Channel, 2480 MHz, BLE 1 Mbps Plot

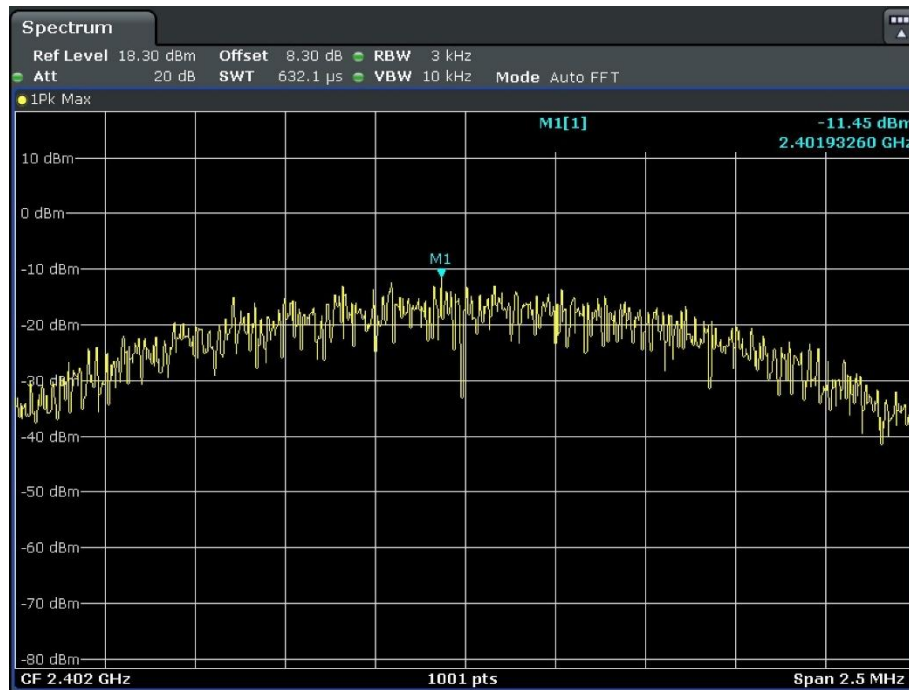


Figure 24. Maximum Peak Power Spectral Density: Low Channel, 2402 MHz, BLE 2 Mbps Plot

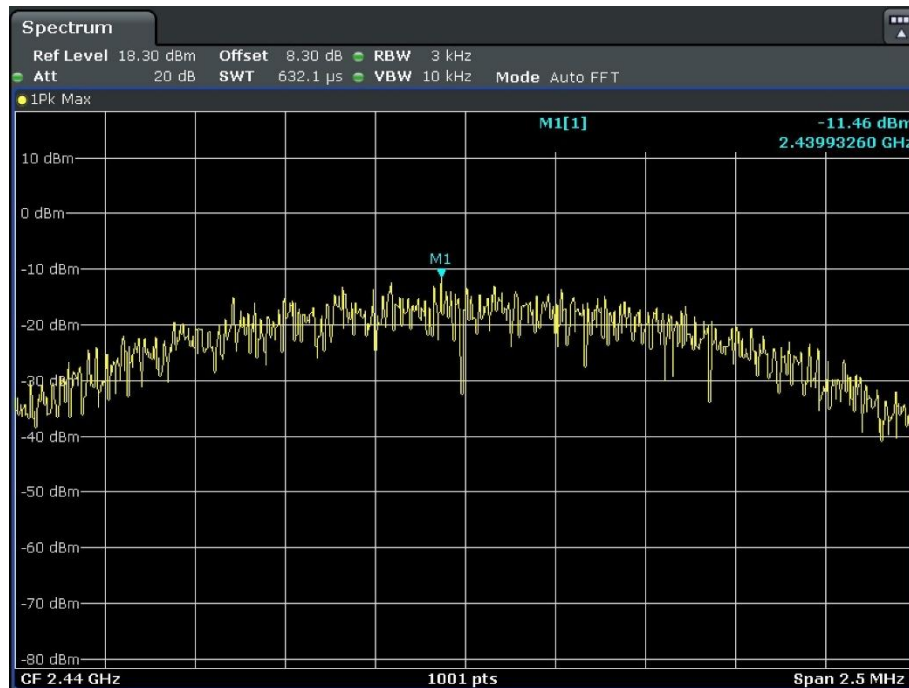


Figure 25. Maximum Peak Power Spectral Density: Mid Channel, 2440 MHz, BLE 2 Mbps Plot

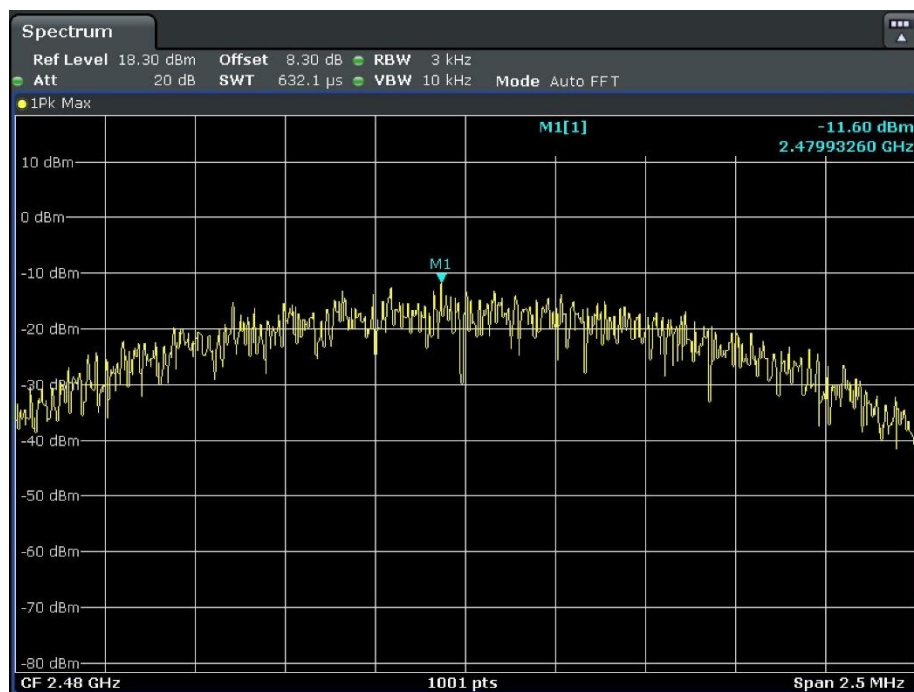


Figure 26. Maximum Peak Power Spectral Density: High Channel, 2480 MHz, BLE 2 Mbps Plot

3.2.6 Conducted Spurious Emissions

Data Rate	Frequency (MHz)	Channel	Fundamental Peak (dBm)	Max Spurious Emission Freq (MHz)	Max Spurious Emission Level (dBm)	Emissions Limit (dBm)
1 Mbps	2402	Low	5.23	4804.26	-49.89	-14.77
	2440	Mid	5.61	4880.7	-52.27	-14.39
	2480	High	4.94	9920.6	-51.93	-15.06
2 Mbps	2402	Low	3.16	4805.01	-52.83	-16.84
	2440	Mid	3.08	9757.85	-51.94	-16.92
	2480	High	3.04	9917.6	-54.26	-16.96

Table 6. Conducted Spurious Emissions, Test Results

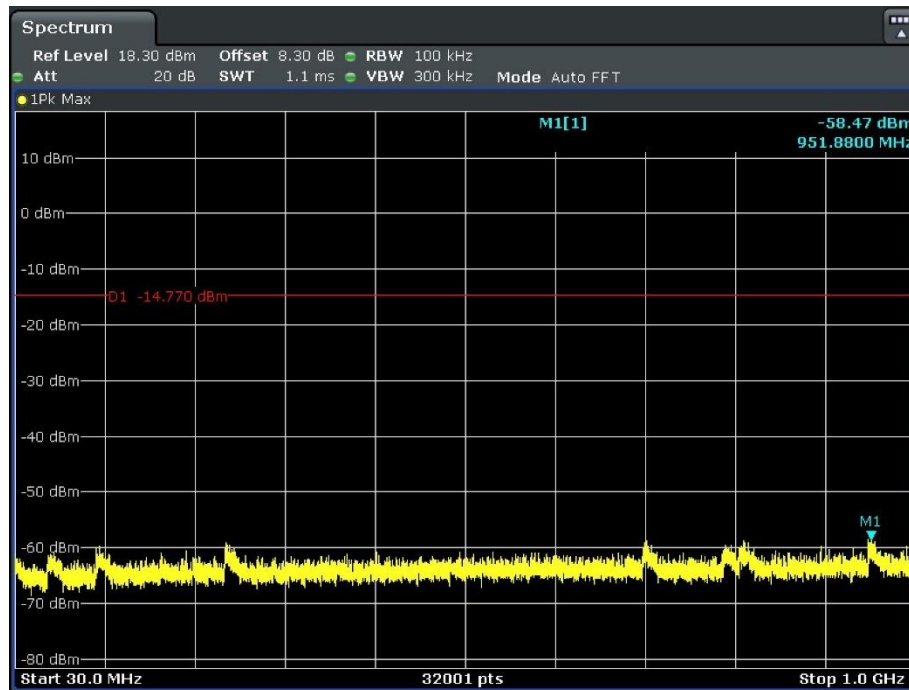


Figure 27. Conducted Spurious Emissions, Low Channel, 2402 MHz, BLE 1 Mbps Plot

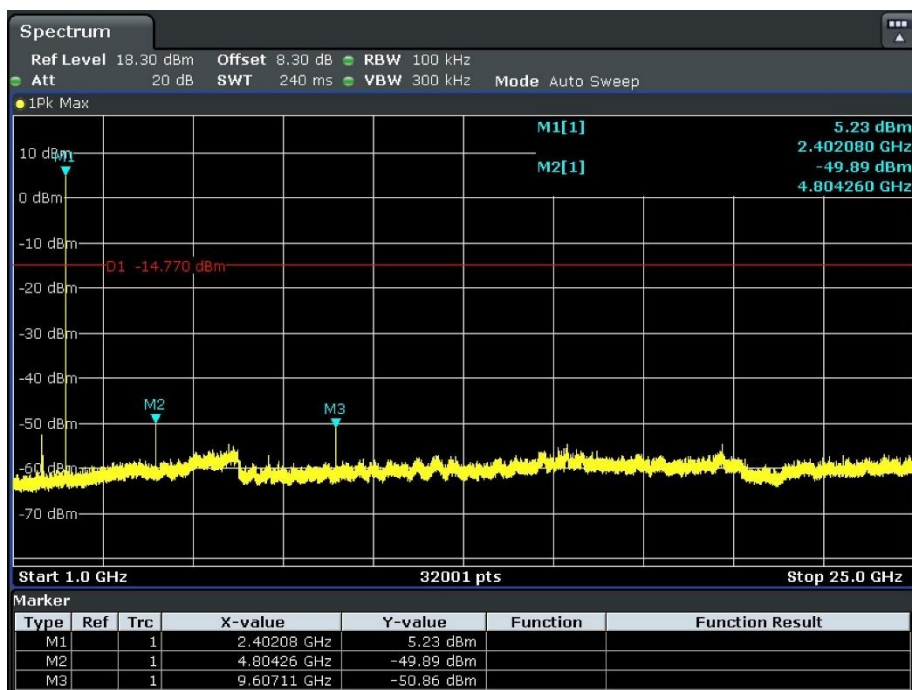


Figure 28. Conducted Spurious Emissions, Low Channel, 2402 MHz, BLE 1 Mbps Plot

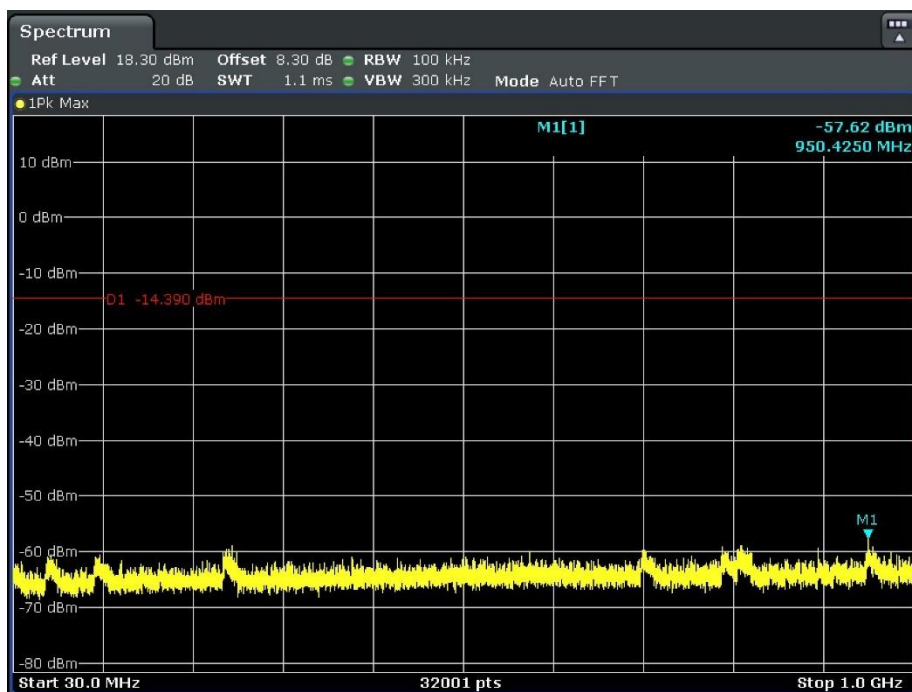


Figure 29. Conducted Spurious Emissions, Mid Channel, 2440 MHz, BLE 1 Mbps Plot

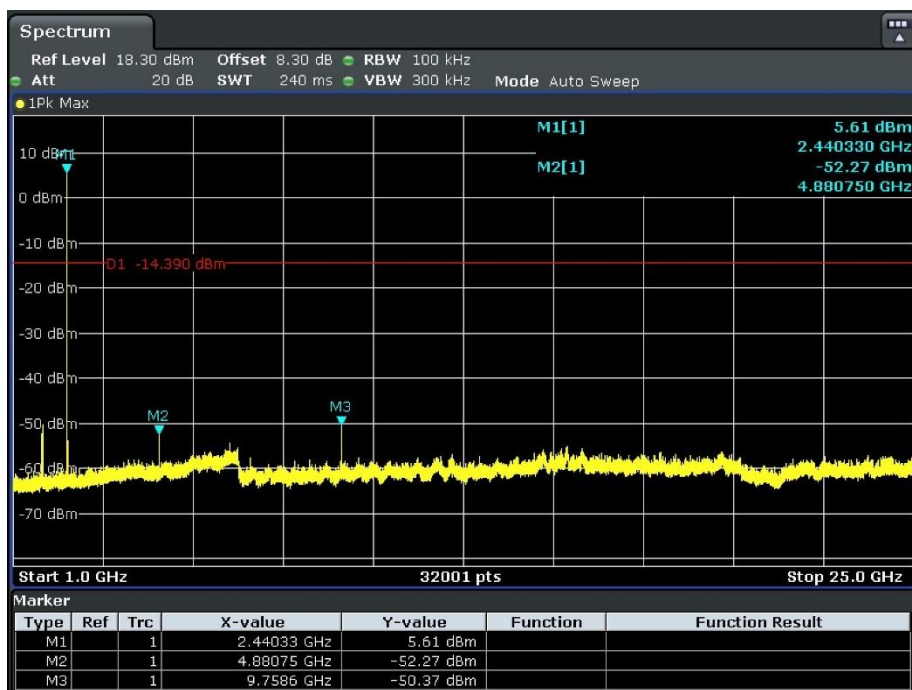


Figure 30. Conducted Spurious Emissions, Mid Channel, 2440 MHz, BLE 1 Mbps Plot

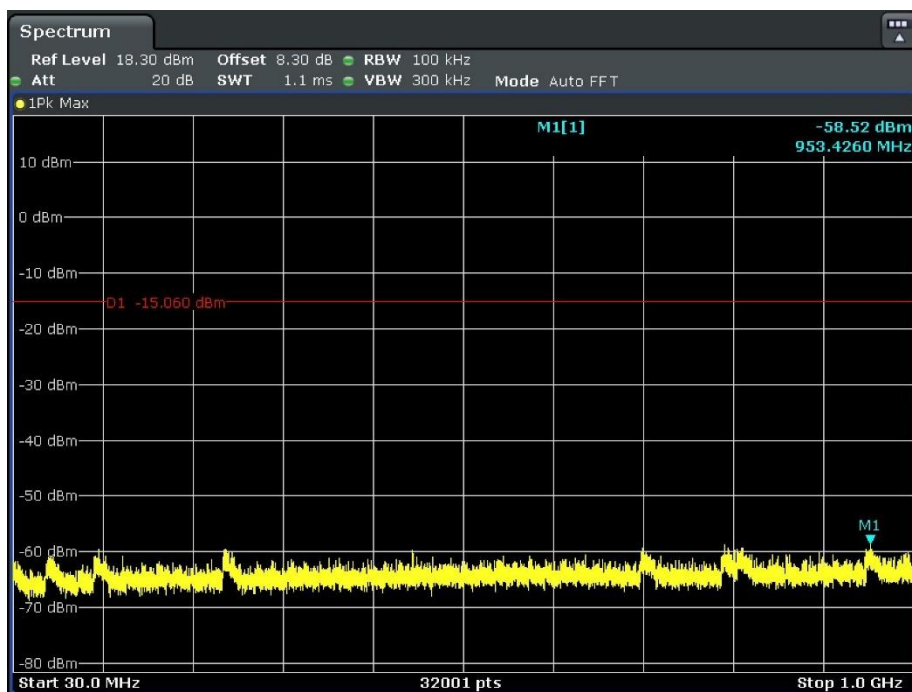


Figure 31. Conducted Spurious Emissions, High Channel, 2480 MHz, BLE 1 Mbps Plot

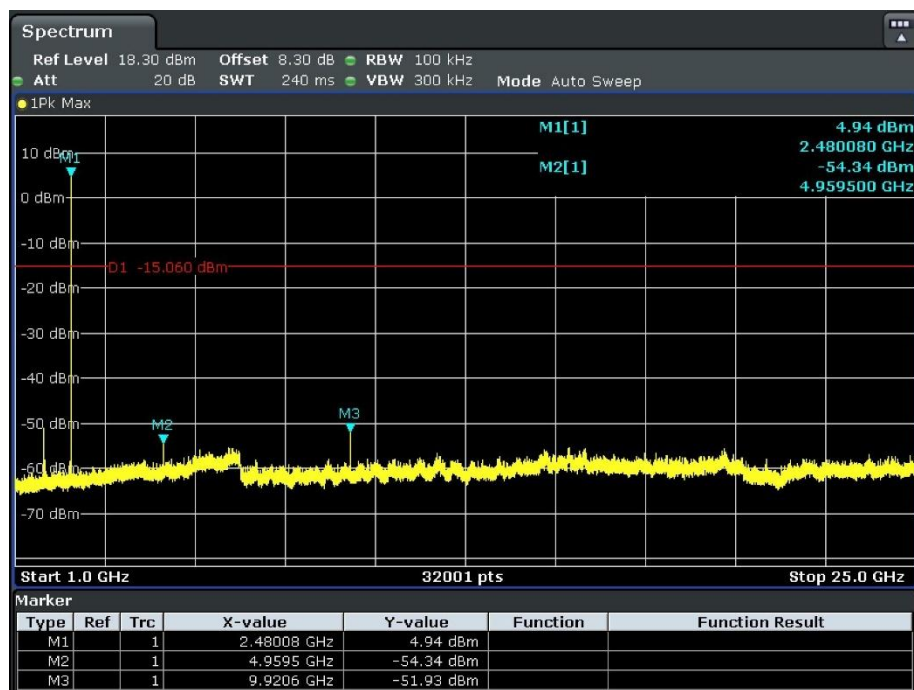


Figure 32. Conducted Spurious Emissions, High Channel, 2480 MHz, BLE 1 Mbps Plot

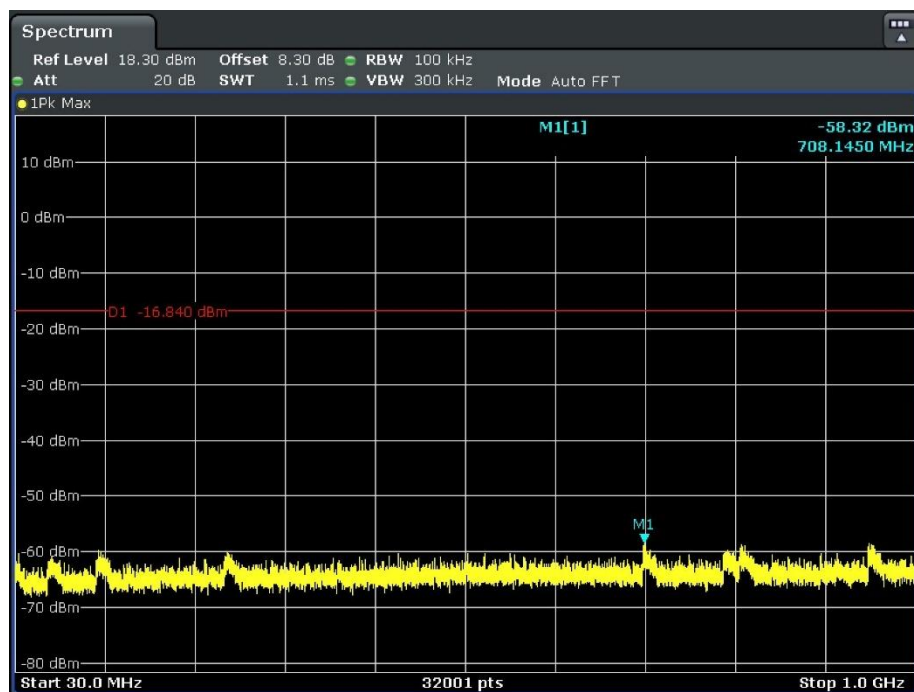


Figure 33. Conducted Spurious Emissions, Low Channel, 2402 MHz, BLE 2 Mbps Plot

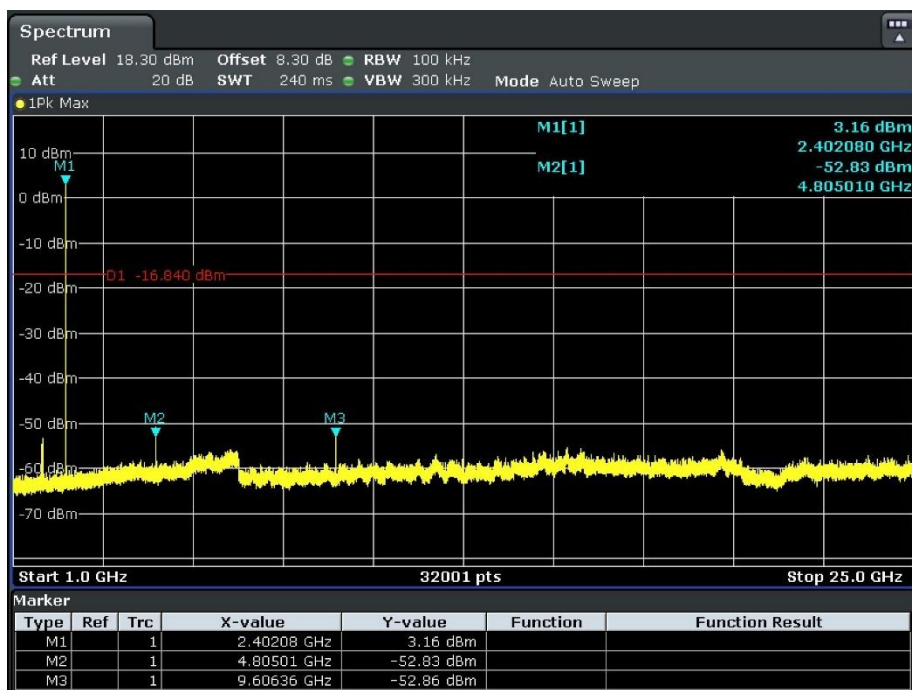


Figure 34. Conducted Spurious Emissions, Low Channel, 2402 MHz, BLE 2 Mbps Plot

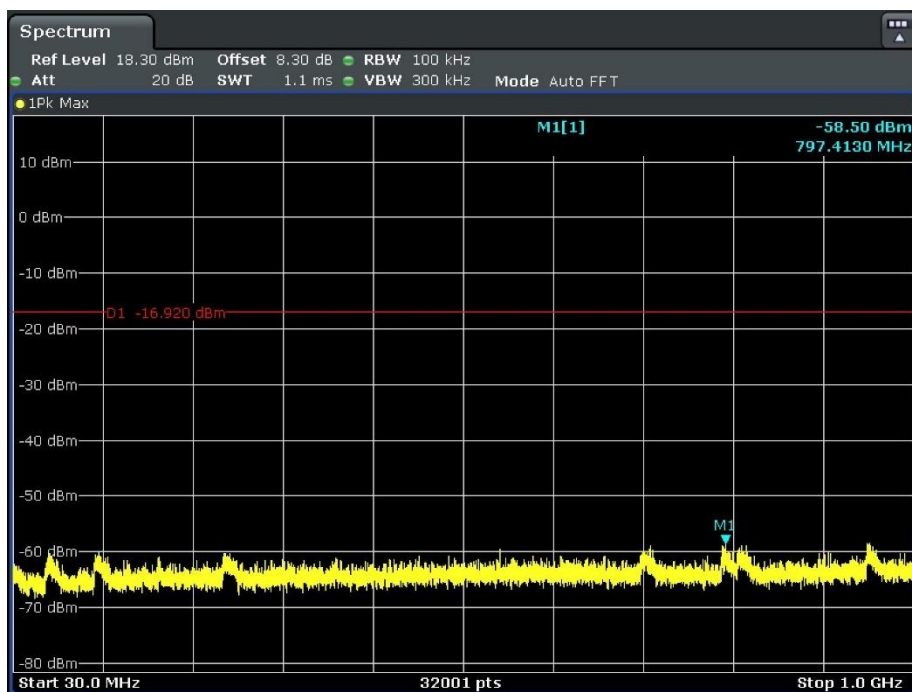


Figure 35. Conducted Spurious Emissions, Mid Channel, 2440 MHz, BLE 2 Mbps Plot

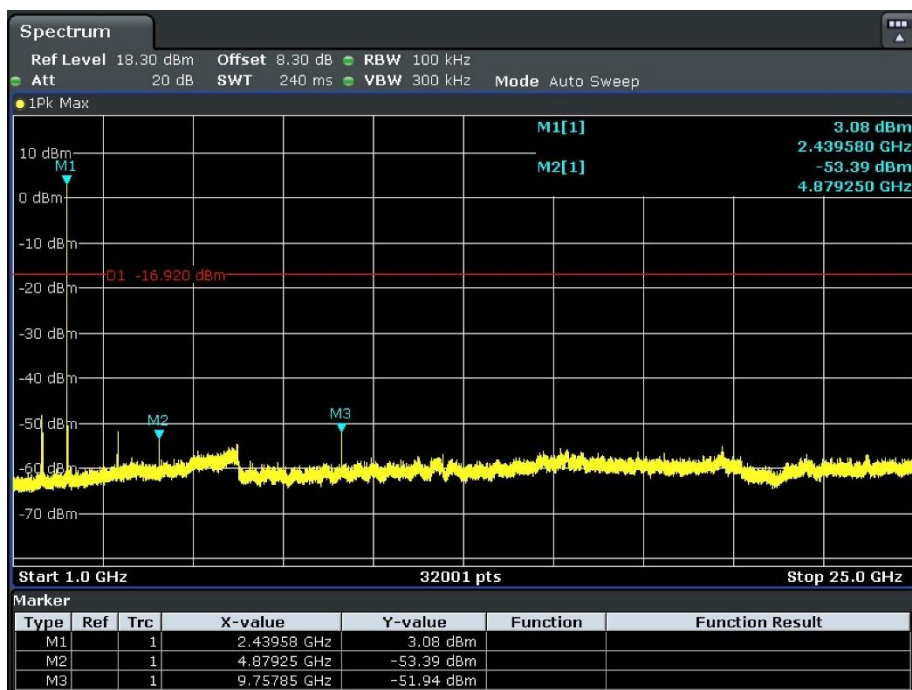


Figure 36. Conducted Spurious Emissions, Mid Channel, 2440 MHz, BLE 2 Mbps Plot

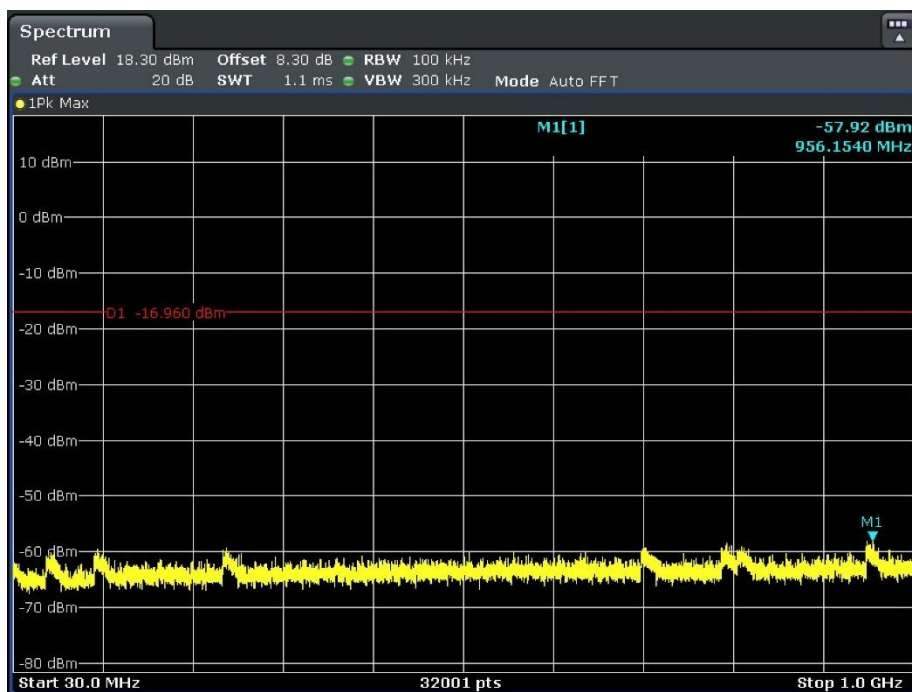


Figure 37. Conducted Spurious Emissions, High Channel, 2480 MHz, BLE 2 Mbps Plot

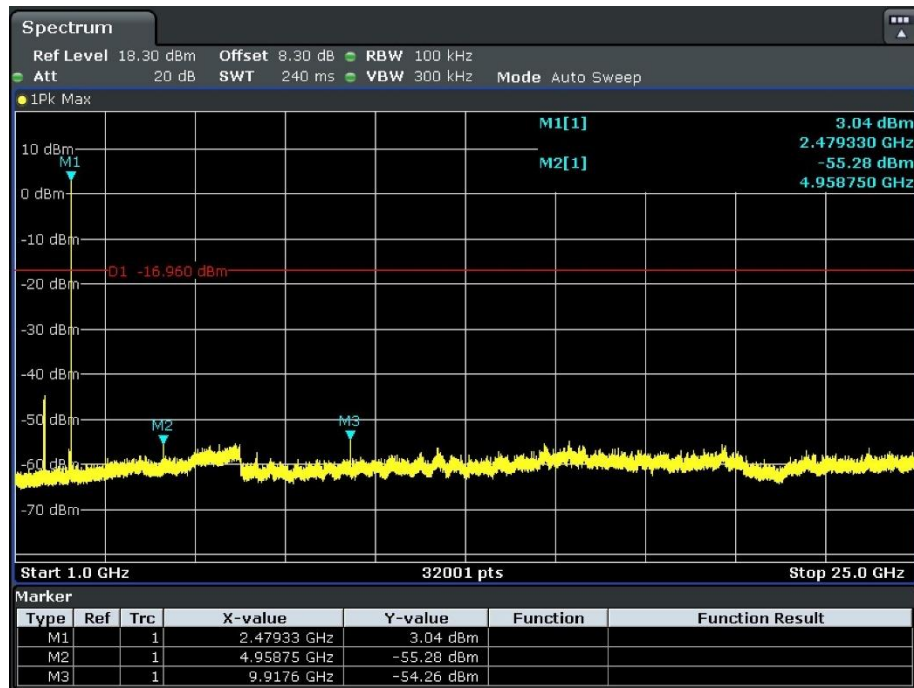


Figure 38. Conducted Spurious Emissions, High Channel, 2480 MHz, BLE 2 Mbps Plot

3.2.7 Band Edge

Data Rate	Frequency (MHz)	Channel	Fundamental Peak (dBm)	Unwanted Emission Level (dBm)	Peak-to-Unwanted Emission Delta (Δ) (dBc)	Limit (dBc)
1 Mbps	2402	Low	5.93	-45.02	50.95	≥ 20
	2480	High	5.73	-51.87	57.6	≥ 20
2 Mbps	2402	Low	3.64	-26.88	30.52	≥ 20
	2480	High	3.45	-48.33	51.78	≥ 20

Table 7. Band Edge Test Results

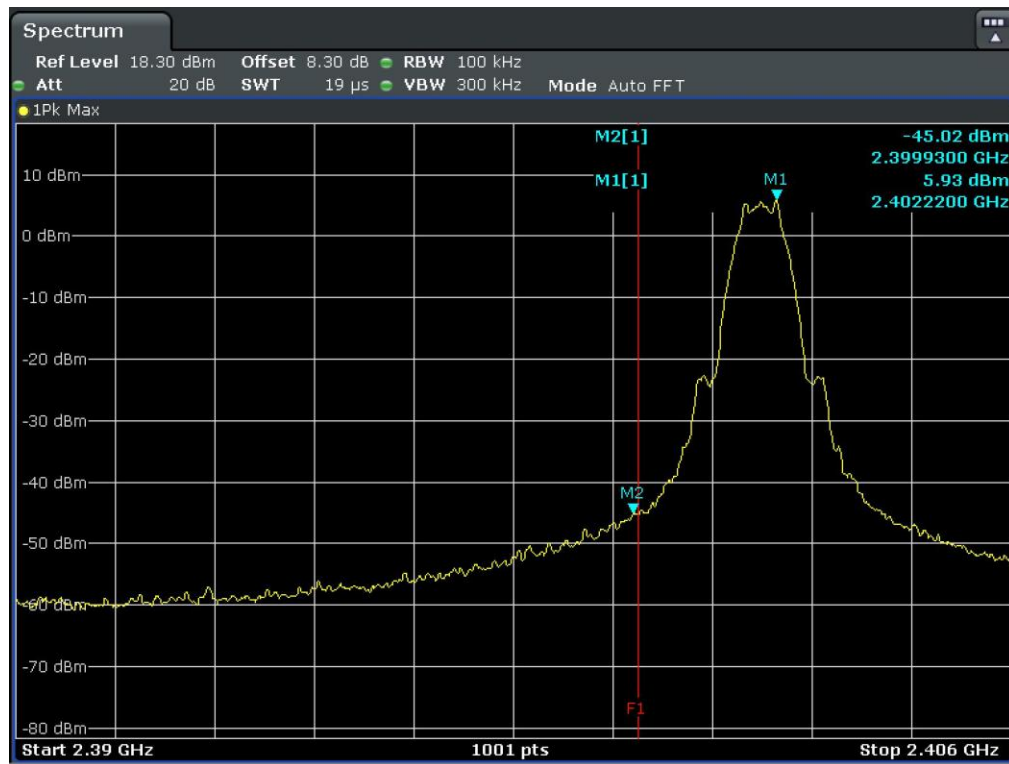


Figure 39. Lower Band Edge: Low Channel, 2402 MHz, BLE 1 Mbps Plot

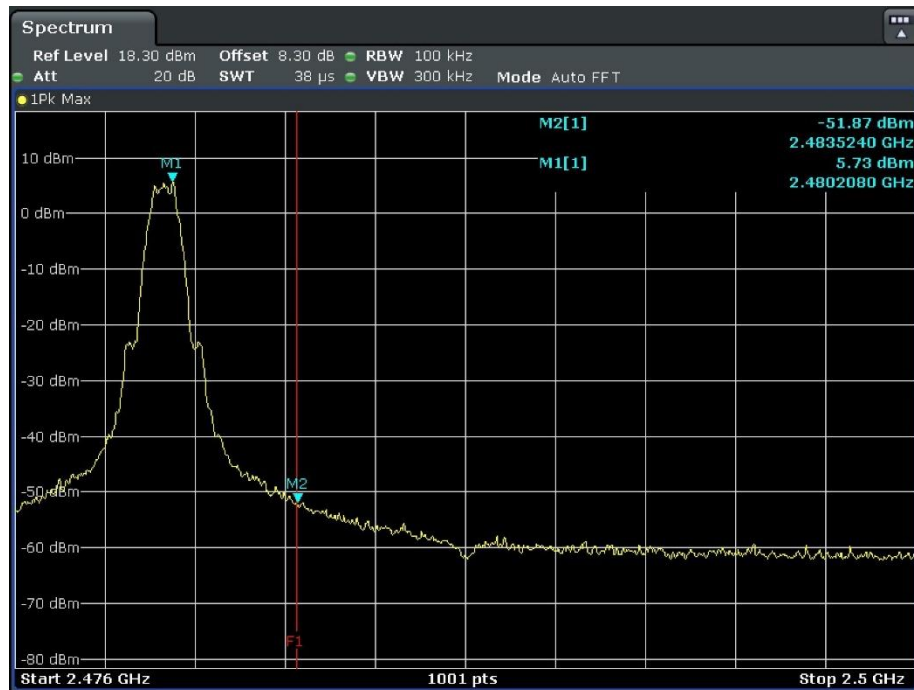


Figure 40. Upper Band Edge: High Channel, 2480 MHz, BLE 1 Mbps Plot

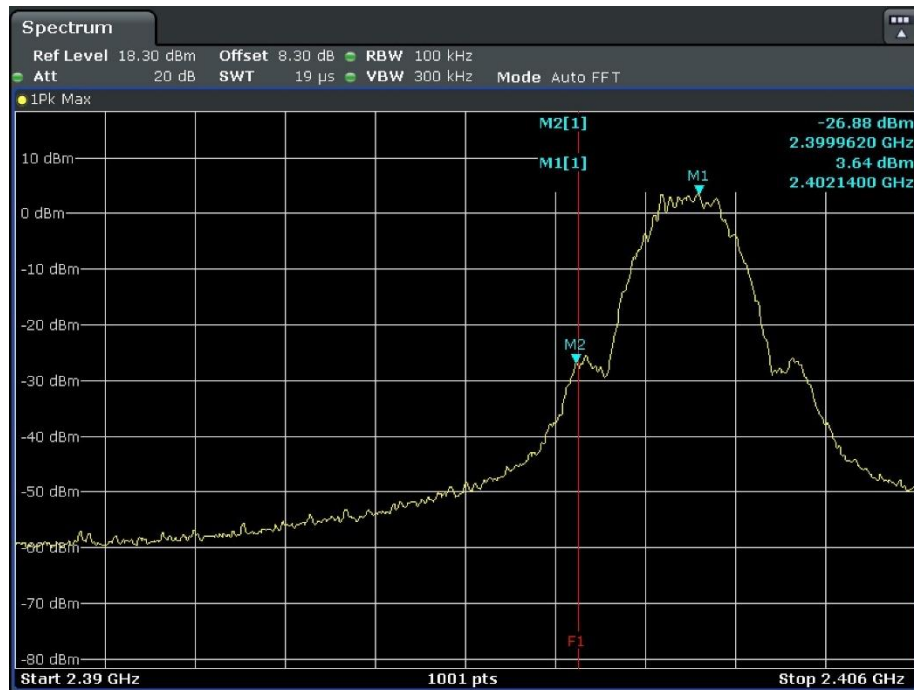


Figure 41. Lower Band Edge: Low Channel, 2402 MHz, BLE 2 Mbps Plot

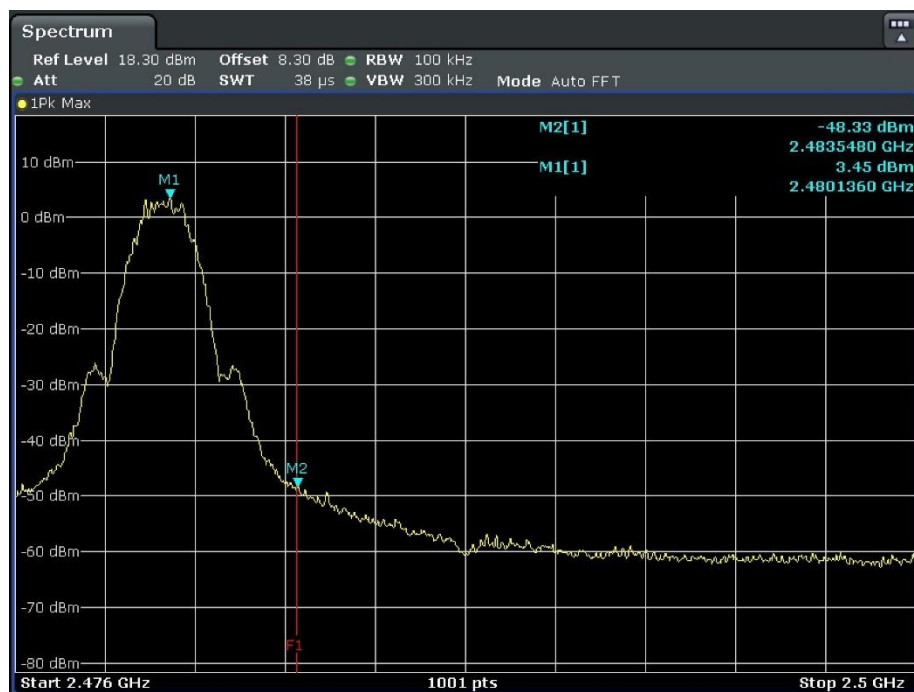


Figure 42. Upper Band Edge: High Channel, 2480 MHz, BLE 2 Mbps Plot

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Test Name: FCC 15.247 & RSS-247 Antenna-Port Conducted Measurements			Test Date(s): 07/06/2026		
//Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S3812	Signal Analyzer	Rohde & Schwarz	FSV	01/10/2025	01/10/2027
Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing. Note 2: Latest NSA and VSWR data available upon request.					

Table 8. Antenna-Port Conducted Measurements, Test Equipment

3.2 Radiated Spurious Emissions

Test Method: ANSI C63.10: 2020; FCC KDB 558074 D01 15.247 Meas Guidance v05r02

Test Requirement(s): The following standards specified below are covered in the scope of this section of the test report:

- FCC Part 15 Subpart C §15.247
- RSS-247 Issue 4

FCC – §15.209 Radiated emission limits; general requirements.

(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)	Field Strength (dBμV/m)	Measurement Distance (m)
30 - 88	40	3
88 - 216	43.5	3
216 - 960	46	3
Above 960	54	3

ISED – Transmitter emission limits:

Refer to RSS-Gen Issue 5 Section 8.9 Transmitter emission limits Table 5 – General field strength limits at frequencies above 30 MHz.

FCC – §15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹ Until February, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

ISED – Restricted frequency bands:

Refer to RSS-Gen Issue 5 Section 8.10 Restricted frequency bands Table 7 – Restricted frequency bands.

Sample Calculation for Distance Correction factor (DCF) measurement:

$$F_d = 20 \cdot \log_{10} (D_m/D_s)$$

where:

$$F_d = \text{Distance Factor in dB}$$

$$D_m = \text{Measurement Distance in meters}$$

$$D_s = \text{Specification Distance in meters}$$

Sample formula for calculating the Corrected Data for the Radiated Emissions Measurements:

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dBμV)	ACF (dB/m) (+)	Pre Amp Gain (dB)(-)	CBL (dB) (+)	DCF (dB) (+)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
249.99	V	359.9	240.7	55.46	11.4	28.335	0	0	38.505	47	-8.495

$$\begin{aligned} \text{Corrected Amplitude (dB}\mu\text{V/m)} &= \text{Uncorrected Amplitude (dB}\mu\text{V)} + \text{ACF (dB/m)} - \text{Preamp Gain (dB)} + \text{CBL (dB)} + \text{DCF (dB)} \\ &= 55.46 + 11.4 - 28.335 + 0 + 0 = \mathbf{38.505} \end{aligned}$$

Test Procedure:

The method of testing, test conditions, and test procedures of ANSI C63.10: 2020 were used in addition to FCC KDB 558074 D01 15.247 Meas Guidance v05r02. Any measured frequency that exhibits a margin of compliance that is less than 3 dB below the specification limit is marked. Eurofins E&E recommends that every emission measured, has at least a 3 dB margin to allow for deviations in the emission characteristics that may occur during the production process.

For emissions between 30 MHz and 1000 MHz, the EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber a biconilog antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied between 1 m and 4 m to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. Unless otherwise specified, measurements were made using a quasi-peak detector with a 120 kHz resolution bandwidth.

For emissions between 1 GHz and 18 GHz, a double ridged guide horn was located 3 m from the EUT on an adjustable mast. The EUT as placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied depending on the geometry of the EUT. To ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

For emission between 18 GHz and 26 GHz, a high frequency standard gain horn antenna was located 3 m from the EUT on an adjustable mast. The EUT as placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied depending on the geometry of the EUT. To ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

Radiated measurements were performed with the EUT setup in an orientation that is most representative of normal and typical use.

Test Software Used: Nexio BAT-EMC was used to perform this test.

Test Results:

Test Standard:	FCC Part 15 Subpart C §15.247 (Per FCC KDB 558074 D01 15.247 Meas Guidance v05r02; ANSI C63.10-2020) ISED RSS-247 Issue 4
Test Name	Radiated Spurious Emissions
Test Dates:	06/29/2026 – 06/30/2026
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Chin Ming Lui
Test Results:	Compliant

Test Data (FCC 15.247 & RSS-247 Radiated Spurious Emissions)

BLE Low Channel 2402 MHz

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
37.49742	QuasiPeak (PASS)	23.459	40	-16.541	3.458	238	Horizontal	120000	0.1	-8.245
38.04808	QuasiPeak (PASS)	22.165	40	-17.835	3.858	-8	Horizontal	120000	0.1	-8.71
38.25084	QuasiPeak (PASS)	12.007	40	-27.993	3.954	57	Vertical	120000	0.1	-11.641
74.4476	QuasiPeak (PASS)	4.627	40	-35.373	3.821	3	Vertical	120000	0.1	-17.398
127.90066	QuasiPeak (PASS)	11.888	43.5	-31.612	1.627	231	Vertical	120000	0.1	-8.269
131.0506	QuasiPeak (PASS)	10.845	43.5	-32.655	2.218	21	Horizontal	120000	0.1	-9.422

Table 9. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz) Test Results

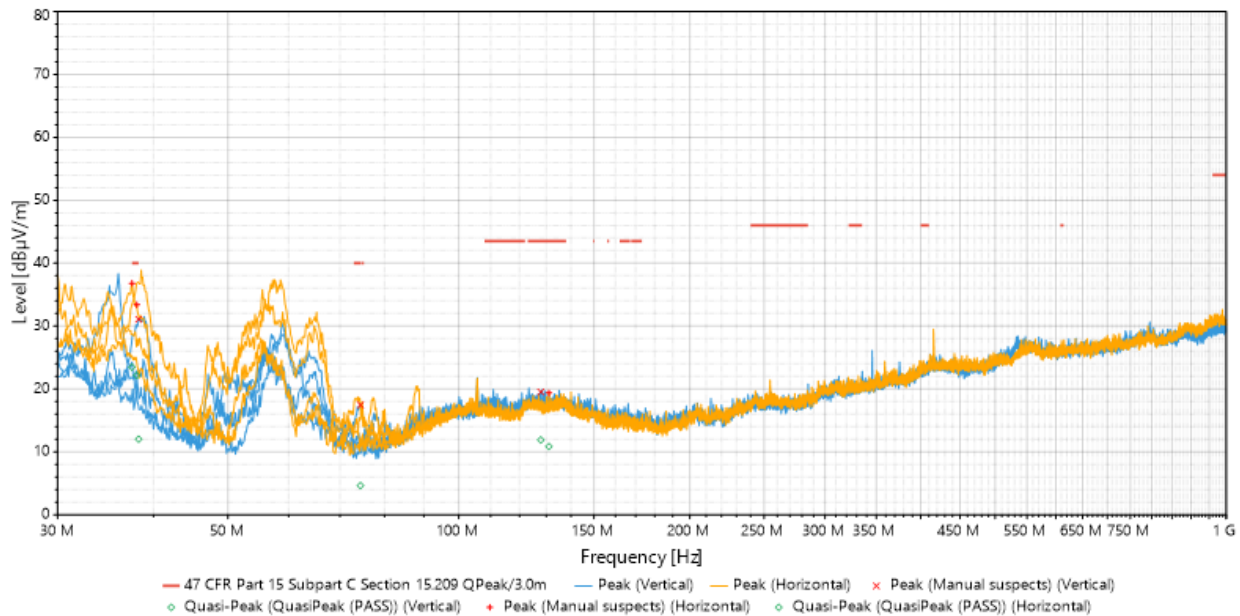


Figure 43. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
37.5476	QuasiPeak (PASS)	28.204	40	-11.796	1.634	-17	Vertical	120000	0.1	-11.159
37.84856	QuasiPeak (PASS)	24.921	40	-15.079	3.015	34	Horizontal	120000	0.1	-8.54
73.64946	QuasiPeak (PASS)	11.096	40	-28.904	1.283	-9	Vertical	120000	0.1	-17.459
73.84982	QuasiPeak (PASS)	6.861	40	-33.139	3.952	151	Horizontal	120000	0.1	-15.992
110.89778	QuasiPeak (PASS)	11.452	43.5	-32.048	3.965	161	Vertical	120000	0.1	-9.504
129.19802	QuasiPeak (PASS)	11.075	43.5	-32.425	3.915	231	Horizontal	120000	0.1	-9.359

Table 10. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz) Test Results

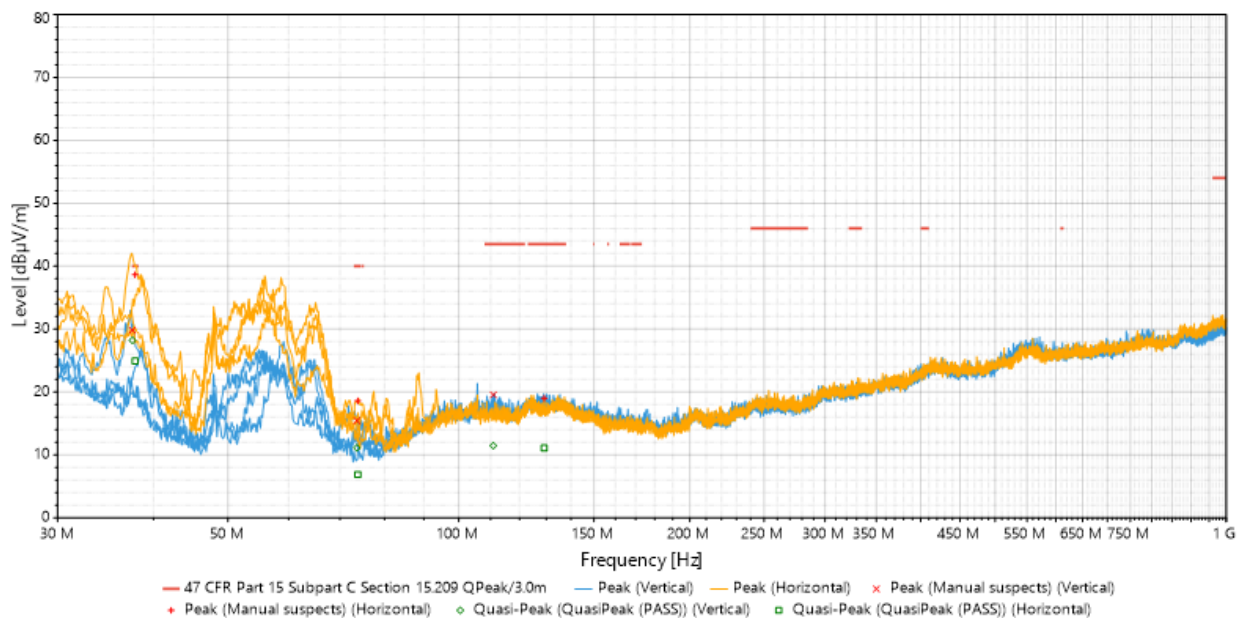


Figure 44. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
7205.2	Peak (PASS)	52.258	74	-21.742	1.865	96	Horizontal	1000000	0.1	3.699
7205.2	Average (PASS)	42.428	54	-11.572	1.865	96	Horizontal	1000000	0.1	3.699
7206.1	Peak (PASS)	50.301	74	-23.699	1.736	158	Vertical	1000000	0.1	3.789
7206.1	Average (PASS)	39.938	54	-14.062	1.736	158	Vertical	1000000	0.1	3.789
12978.8	Peak (PASS)	51.644	74	-22.356	1.874	328	Horizontal	1000000	0.1	5.581
12978.8	Average (PASS)	37.882	54	-16.118	1.874	328	Horizontal	1000000	0.1	5.581
13383.9	Peak (PASS)	51.87	74	-22.13	1.065	19	Vertical	1000000	0.1	5.675
13383.9	Average (PASS)	38.236	54	-15.764	1.065	19	Vertical	1000000	0.1	5.675
16862.1	Peak (PASS)	55.539	74	-18.461	2.089	315	Horizontal	1000000	0.1	6.757
16862.1	Average (PASS)	41.712	54	-12.288	2.089	315	Horizontal	1000000	0.1	6.757
17273.6	Peak (PASS)	54.827	74	-19.173	1.283	381	Vertical	1000000	0.1	6.002
17273.6	Average (PASS)	40.917	54	-13.083	1.283	381	Vertical	1000000	0.1	6.002

Table 11. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz) Test Results

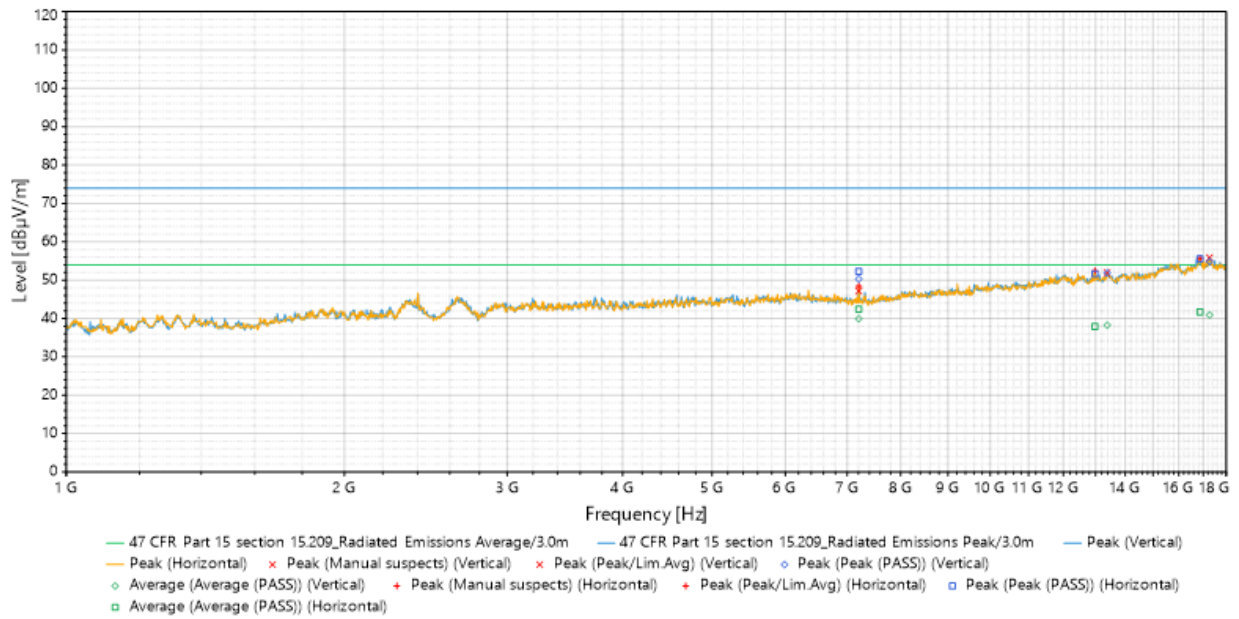


Figure 45. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
9605.9	Peak (PASS)	51.81	74	-22.19	2.539	136	Vertical	1000000	0.1	4.1
9605.9	Average (PASS)	39.464	54	-14.536	2.539	136	Vertical	1000000	0.1	4.1
11966.1	Peak (PASS)	51.454	74	-22.546	3.699	25	Horizontal	1000000	0.1	6.159
11966.1	Average (PASS)	37.895	54	-16.105	3.699	25	Horizontal	1000000	0.1	6.159
15271.1	Peak (PASS)	53.22	74	-20.78	4	334	Vertical	1000000	0.1	6.648
15271.1	Average (PASS)	39.773	54	-14.227	4	334	Vertical	1000000	0.1	6.648
15478	Peak (PASS)	54.359	74	-19.641	3.815	-28	Horizontal	1000000	0.1	6.981
15478	Average (PASS)	40.646	54	-13.354	3.815	-28	Horizontal	1000000	0.1	6.981
16787.8	Peak (PASS)	54.398	74	-19.602	2.429	146	Vertical	1000000	0.1	6.773
16787.8	Average (PASS)	40.646	54	-12.982	2.429	146	Vertical	1000000	0.1	6.773
17178.2	Peak (PASS)	54.111	74	-19.889	3.875	13	Horizontal	1000000	0.1	6.208
17178.2	Average (PASS)	40.801	54	-13.199	3.875	13	Horizontal	1000000	0.1	6.208

Table 12. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz (1 – 18 GHz) Test Results

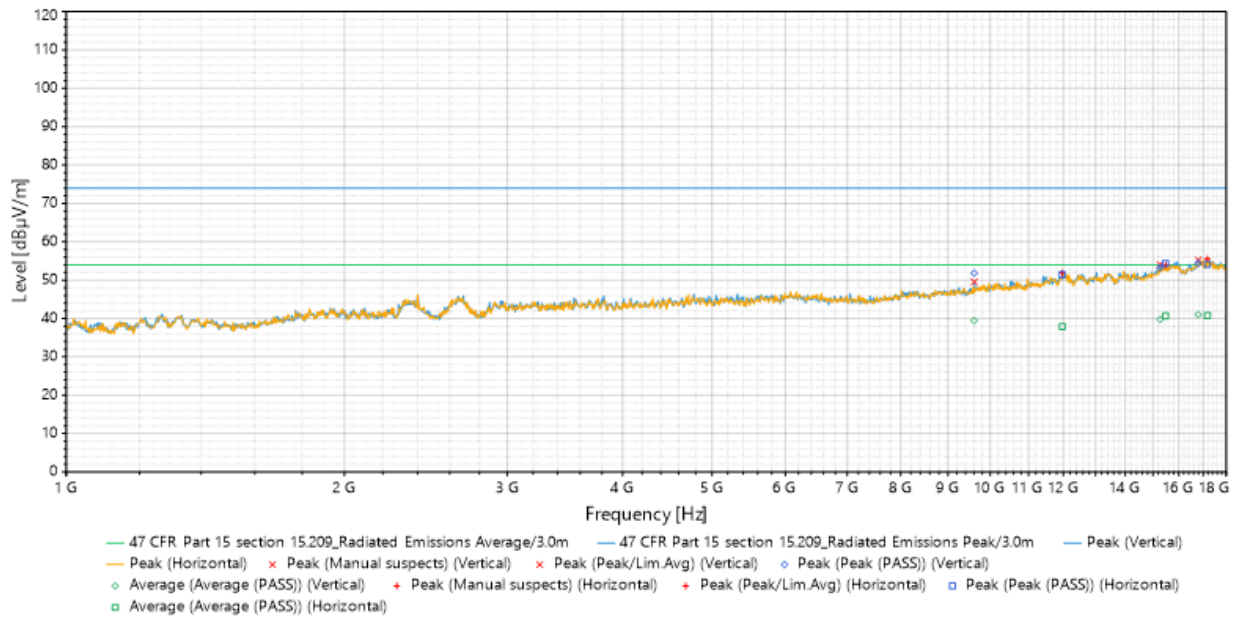


Figure 46. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2332.799569	Peak (PASS)	60.242	74	-13.758	2.995	41	Vertical	1000000	0.1	35.778
2332.799569	Average (PASS)	42.508	54	-11.492	2.995	41	Vertical	1000000	0.1	35.778
2342.399751	Peak (PASS)	59.446	74	-14.554	1.849	204	Horizontal	1000000	0.1	35.848
2342.399751	Average (PASS)	42.601	54	-11.399	1.849	204	Horizontal	1000000	0.1	35.848
2351.500019	Peak (PASS)	59.327	74	-14.673	3.215	103	Vertical	1000000	0.1	35.903
2351.500019	Average (PASS)	42.601	54	-11.295	3.215	103	Vertical	1000000	0.1	35.903
2356.899726	Peak (PASS)	59.451	74	-14.549	1.275	133	Horizontal	1000000	0.1	36.001
2356.899726	Average (PASS)	42.827	54	-11.173	1.275	133	Horizontal	1000000	0.1	36.001
2379.099787	Peak (PASS)	59.787	74	-14.213	3.866	318	Horizontal	1000000	0.1	36.183
2379.099787	Average (PASS)	42.844	54	-11.156	3.866	318	Horizontal	1000000	0.1	36.183
2382.49977	Peak (PASS)	59.762	74	-14.238	2.316	276	Vertical	1000000	0.1	36.029
2382.49977	Average (PASS)	42.696	54	-11.304	2.316	276	Vertical	1000000	0.1	36.029

Table 13. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – Lower Band Edge Test Results

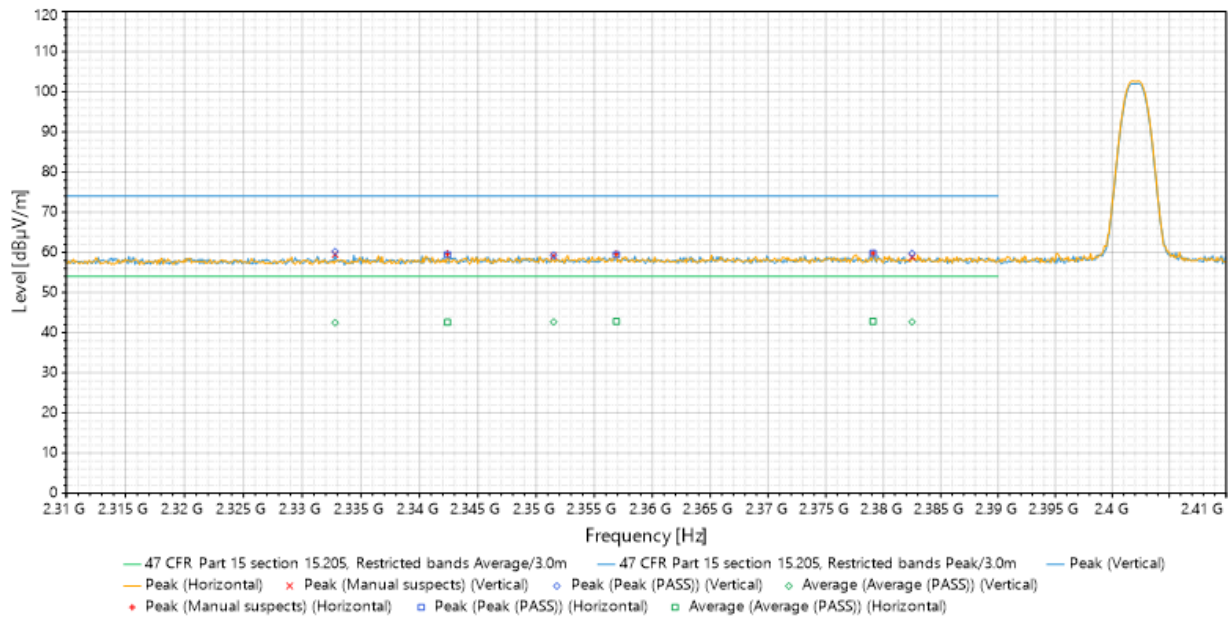


Figure 47. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – Lower Band Edge Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2322.399835	Peak (PASS)	59.738	74	-14.262	1.856	339	Vertical	1000000	0.1	35.716
2322.399835	Average (PASS)	42.445	54	-11.555	1.856	339	Vertical	1000000	0.1	35.716
2344.899529	Peak (PASS)	59.725	74	-14.275	3.584	138	Horizontal	1000000	0.1	35.876
2344.899529	Average (PASS)	42.617	54	-11.383	3.584	138	Horizontal	1000000	0.1	35.876
2350.900429	Peak (PASS)	59.52	74	-14.48	3.692	35	Vertical	1000000	0.1	35.9
2350.900429	Average (PASS)	42.671	54	-11.329	3.692	35	Vertical	1000000	0.1	35.9
2360.499552	Peak (PASS)	59.805	74	-14.195	1.974	105	Vertical	1000000	0.1	35.952
2360.499552	Average (PASS)	42.749	54	-11.251	1.974	105	Vertical	1000000	0.1	35.952
2360.799513	Peak (PASS)	60.134	74	-13.866	2.315	-23	Horizontal	1000000	0.1	36.037
2360.799513	Average (PASS)	42.832	54	-11.168	2.315	-23	Horizontal	1000000	0.1	36.037
2383.600421	Peak (PASS)	59.433	74	-14.567	2.326	260	Horizontal	1000000	0.1	36.195
2383.600421	Average (PASS)	42.821	54	-11.179	2.326	260	Horizontal	1000000	0.1	36.195

Table 14. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – Lower Band Edge Test Results

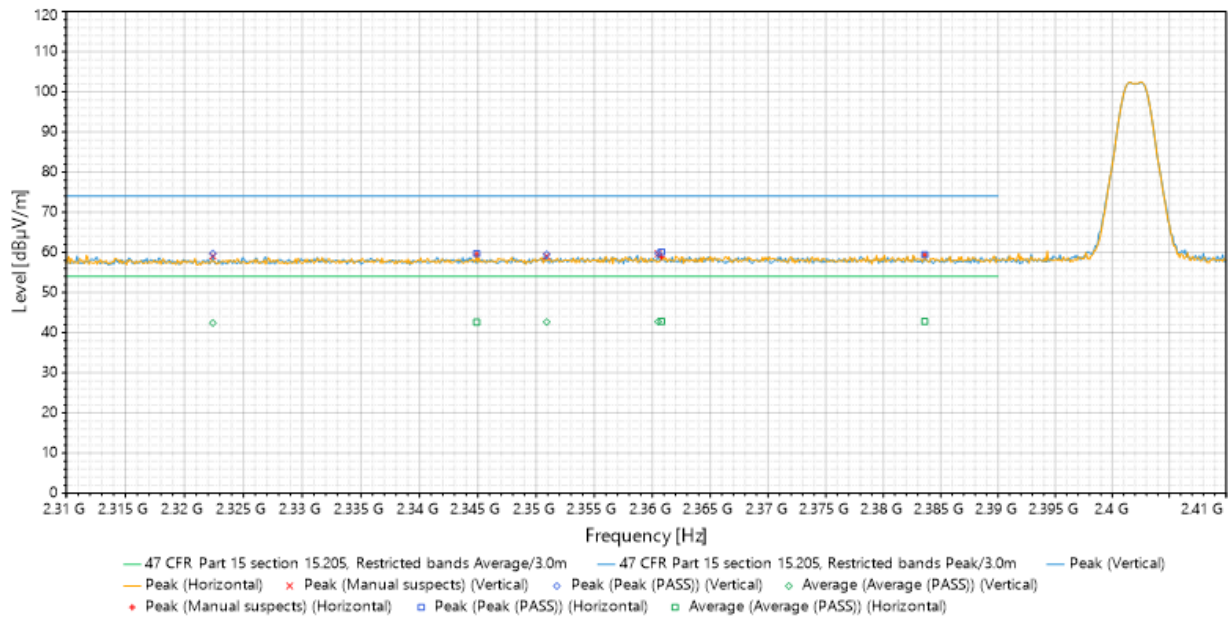


Figure 48. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – Lower Band Edge Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18474.3	Peak (PASS)	48.437	74	-25.563	2.556	323	Horizontal	1000000	0.1	-2.009
18474.3	Average (PASS)	34.649	54	-19.351	2.556	323	Horizontal	1000000	0.1	-2.009
19704.4	Peak (PASS)	48.324	74	-25.676	2.308	14	Vertical	1000000	0.1	-1.841
19704.4	Average (PASS)	34.504	54	-19.496	2.308	14	Vertical	1000000	0.1	-1.841
20229.5	Peak (PASS)	48.536	74	-25.464	3.359	25	Horizontal	1000000	0.1	-1.695
20229.5	Average (PASS)	34.816	54	-19.184	3.359	25	Horizontal	1000000	0.1	-1.695
21298.2	Peak (PASS)	48.345	74	-25.655	3.36	167	Vertical	1000000	0.1	-1.332
21298.2	Average (PASS)	34.542	54	-19.458	3.36	167	Vertical	1000000	0.1	-1.332
21693.3	Peak (PASS)	48.318	74	-25.682	2.085	90	Horizontal	1000000	0.1	-1.646
21693.3	Average (PASS)	34.565	54	-19.435	2.085	90	Horizontal	1000000	0.1	-1.646
25945	Peak (PASS)	49.082	74	-24.918	2.418	12	Vertical	1000000	0.1	0.233
25945	Average (PASS)	34.969	54	-19.031	2.418	12	Vertical	1000000	0.1	0.233

Table 15. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz) Test Results

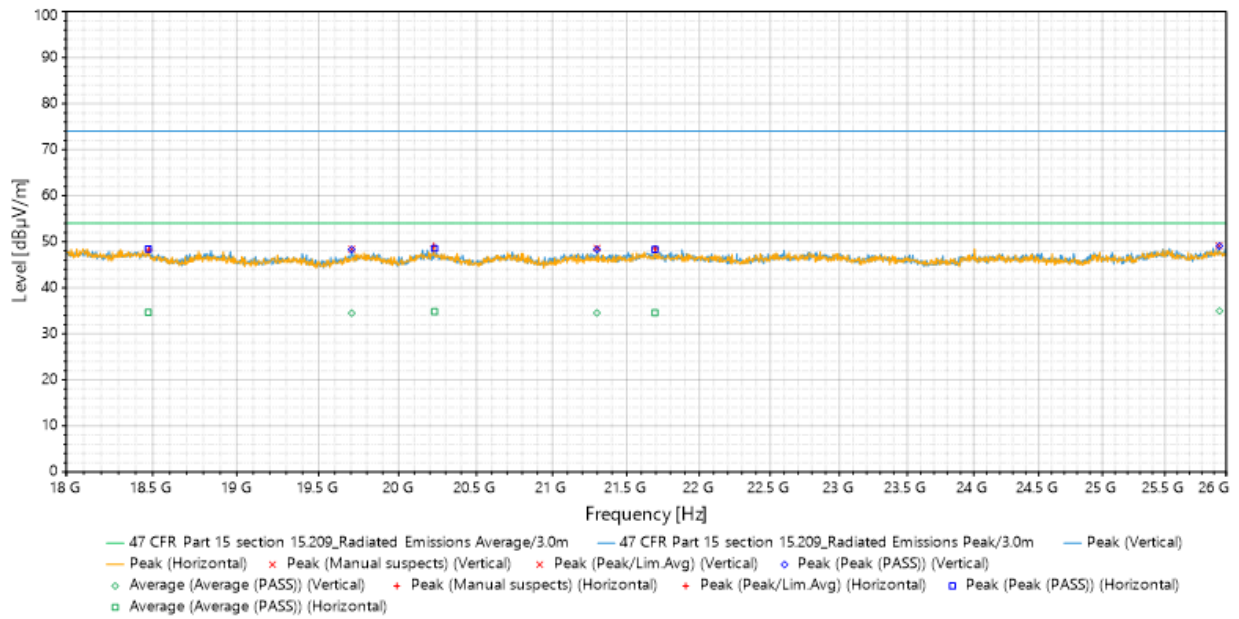


Figure 49. Radiated Spurious Emissions, BLE 1 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18052.7	Peak (PASS)	48.524	74	-25.476	1.756	14	Vertical	1000000	0.1	-1.624
18052.7	Average (PASS)	34.809	54	-19.191	1.756	14	Vertical	1000000	0.1	-1.624
18782.1	Peak (PASS)	48.247	74	-25.753	1.303	290	Horizontal	1000000	0.1	-2.228
18782.1	Average (PASS)	34.371	54	-19.629	1.303	290	Horizontal	1000000	0.1	-2.228
19694.3	Peak (PASS)	47.917	74	-26.083	2.444	-19	Horizontal	1000000	0.1	-2.043
19694.3	Average (PASS)	33.902	54	-20.098	2.444	-19	Horizontal	1000000	0.1	-2.043
21119.2	Peak (PASS)	48.143	74	-25.857	1.509	207	Vertical	1000000	0.1	-1.417
21119.2	Average (PASS)	34.776	54	-19.224	1.509	207	Vertical	1000000	0.1	-1.417
22484.9	Peak (PASS)	48.143	74	-25.857	2.686	-30	Horizontal	1000000	0.1	-1.429
22484.9	Average (PASS)	33.792	54	-20.208	2.686	-30	Horizontal	1000000	0.1	-1.429
25442.6	Peak (PASS)	48.414	74	-25.586	3.514	62	Vertical	1000000	0.1	-0.612
25442.6	Average (PASS)	34.778	54	-19.222	3.514	62	Vertical	1000000	0.1	-0.612

Table 16. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz) Test Results

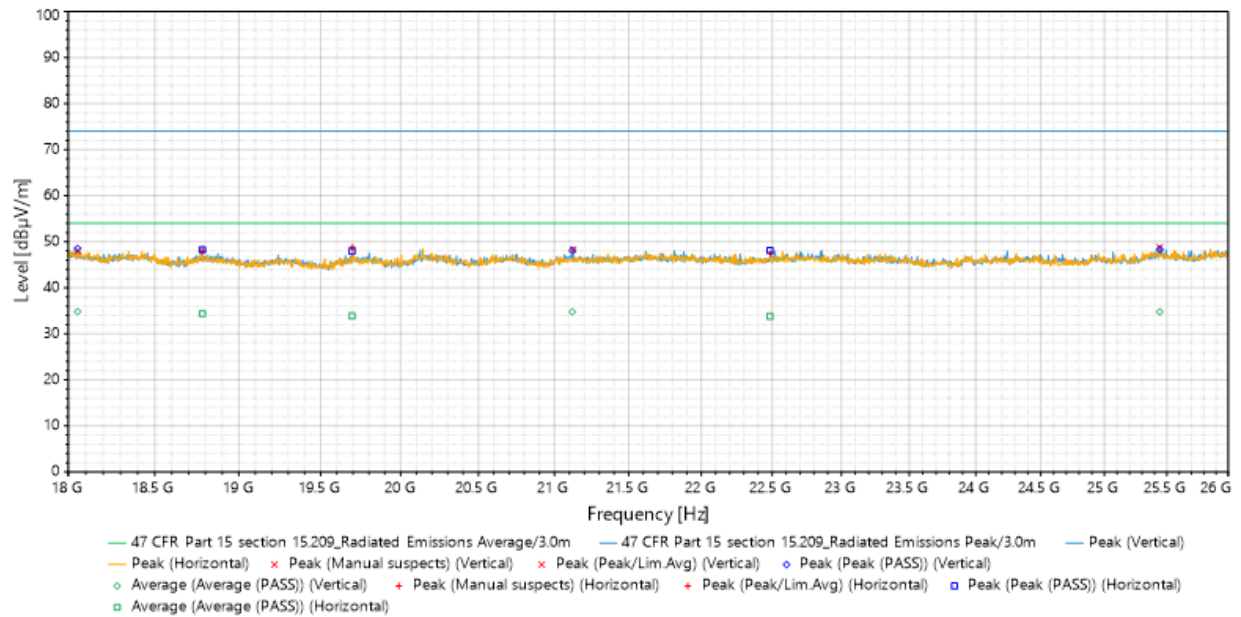


Figure 50. Radiated Spurious Emissions, BLE 2 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz) Plot

BLE Mid Channel 2440 MHz

Frequency (MHz)	Source	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
37.8	QuasiPeak (PASS)	20.896	40	-19.104	3.053	139	Vertical	120000	0.1	-11.348
37.956	QuasiPeak (PASS)	16.87	40	-23.13	3.479	295	Vertical	120000	0.1	-11.467
38.19	QuasiPeak (PASS)	20.476	40	-19.524	3.599	7	Horizontal	120000	0.1	-8.827
74.87	QuasiPeak (PASS)	9.349	40	-30.651	1.169	51	Vertical	120000	0.1	-17.344
108.984	QuasiPeak (PASS)	11.08	43.5	-32.42	1.971	82	Vertical	120000	0.1	-9.749
132.124	QuasiPeak (PASS)	11.683	43.5	-31.817	1.742	343	Vertical	120000	0.1	-8.489

Table 17. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz) Test Results

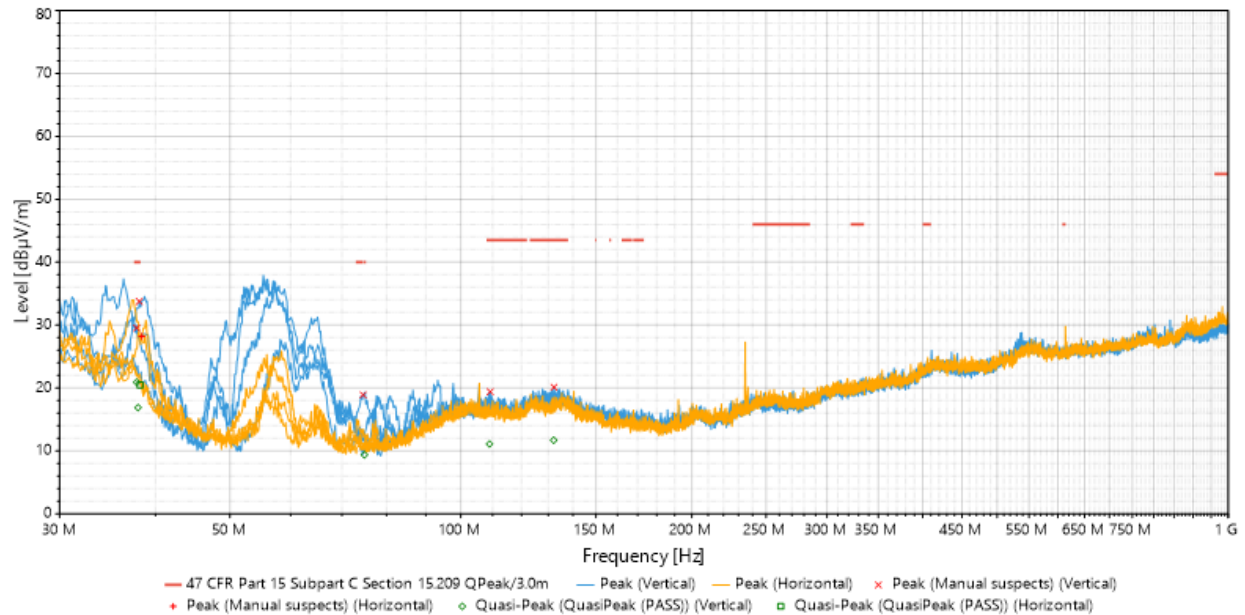


Figure 51. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
37.756	QuasiPeak (PASS)	23.119	40	-16.881	3.809	229	Horizontal	120000	0.1	-8.462
38.126	QuasiPeak (PASS)	19.129	40	-20.871	4	73	Vertical	120000	0.1	-11.571
73.778	QuasiPeak (PASS)	4.812	40	-35.188	3.924	78	Vertical	120000	0.1	-17.458
74.24	QuasiPeak (PASS)	13.856	40	-26.144	2.2	220	Horizontal	120000	0.1	-15.962
108.974	QuasiPeak (PASS)	11.223	43.5	-32.277	3.976	-5	Vertical	120000	0.1	-9.75
130.976	QuasiPeak (PASS)	11.358	43.5	-32.142	3.764	322	Horizontal	120000	0.1	-9.425

Table 18. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz) Test Results

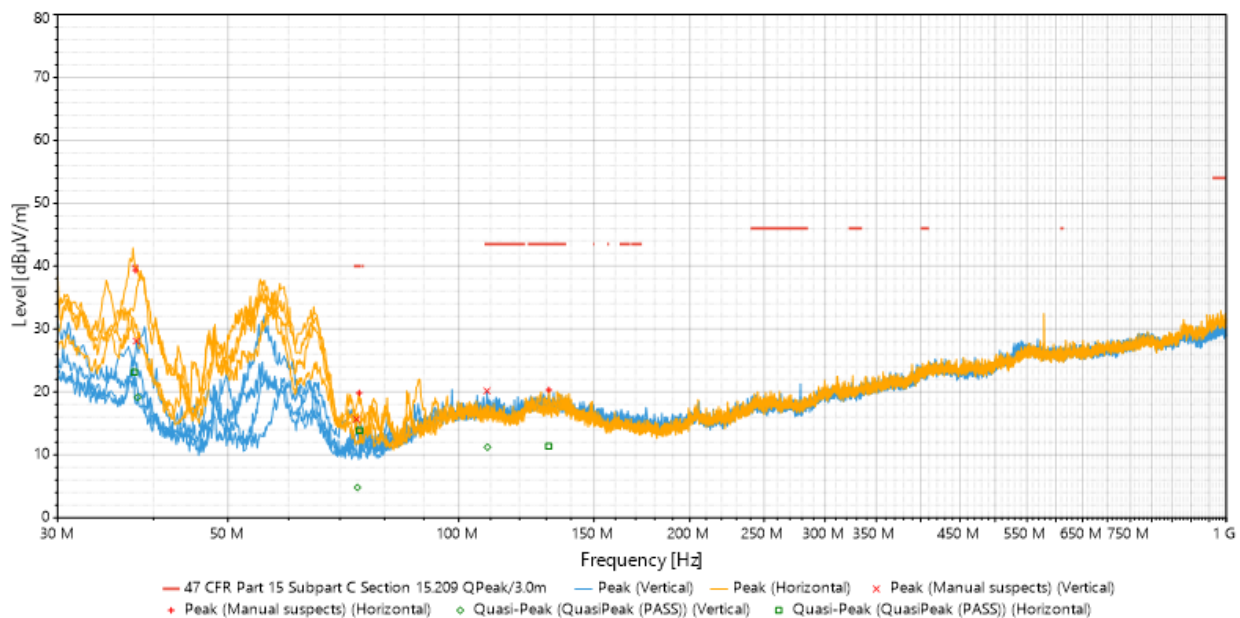


Figure 52. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3694.9	Peak (PASS)	45.791	74	-28.209	2.865	226	Vertical	1000000	0.1	1.325
3694.9	Average (PASS)	31.621	54	-22.379	2.865	226	Vertical	1000000	0.1	1.325
3798.5	Peak (PASS)	45.336	74	-28.664	3.946	-17	Horizontal	1000000	0.1	1.14
3798.5	Average (PASS)	31.034	54	-22.966	3.946	-17	Horizontal	1000000	0.1	1.14
6168.5	Peak (PASS)	47.329	74	-26.671	3.92	2	Vertical	1000000	0.1	4.185
6168.5	Average (PASS)	33.287	54	-20.713	3.92	2	Vertical	1000000	0.1	4.185
7319.2	Peak (PASS)	50.991	74	-23.009	1.878	82	Horizontal	1000000	0.1	3.723
7319.2	Average (PASS)	40.217	54	-13.783	1.878	82	Horizontal	1000000	0.1	3.723
17291.4	Peak (PASS)	54.739	74	-19.261	3.251	134	Vertical	1000000	0.1	5.96
17291.4	Average (PASS)	40.893	54	-13.107	3.251	134	Vertical	1000000	0.1	5.96
17333.2	Peak (PASS)	55.087	74	-18.913	1.406	30	Horizontal	1000000	0.1	5.696
17333.2	Average (PASS)	41.227	54	-12.773	1.406	30	Horizontal	1000000	0.1	5.696

Table 19. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz) Test Results

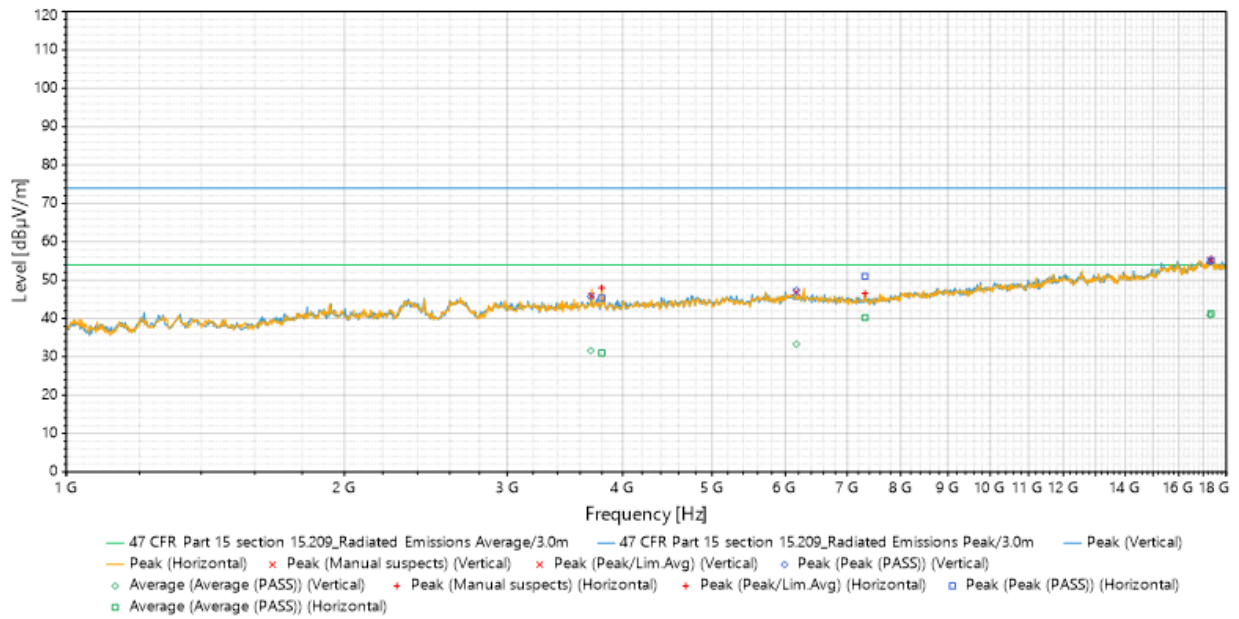


Figure 53. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3704.5	Peak (PASS)	45.563	74	-28.437	1.741	17	Vertical	1000000	0.1	1.333
3704.5	Average (PASS)	31.227	54	-22.773	1.741	17	Vertical	1000000	0.1	1.333
9332.7	Peak (PASS)	48.615	74	-25.385	1.822	191	Horizontal	1000000	0.1	3.739
9332.7	Average (PASS)	35.014	54	-18.986	1.822	191	Horizontal	1000000	0.1	3.739
9758	Peak (PASS)	51.9	74	-22.1	2.314	155	Vertical	1000000	0.1	4.395
9758	Average (PASS)	39.159	54	-14.841	2.314	155	Vertical	1000000	0.1	4.395
12057.2	Peak (PASS)	51.946	74	-22.054	1.626	25	Horizontal	1000000	0.1	6.019
12057.2	Average (PASS)	38.424	54	-15.576	1.626	25	Horizontal	1000000	0.1	6.019
15359.4	Peak (PASS)	53.771	74	-20.229	2.318	251	Vertical	1000000	0.1	7.018
15359.4	Average (PASS)	40.292	54	-13.708	2.318	251	Vertical	1000000	0.1	7.018
17308.2	Peak (PASS)	55.281	74	-18.719	3.135	91	Horizontal	1000000	0.1	5.812
17308.2	Average (PASS)	41.535	54	-12.465	3.135	91	Horizontal	1000000	0.1	5.812

Table 20. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz) Test Results

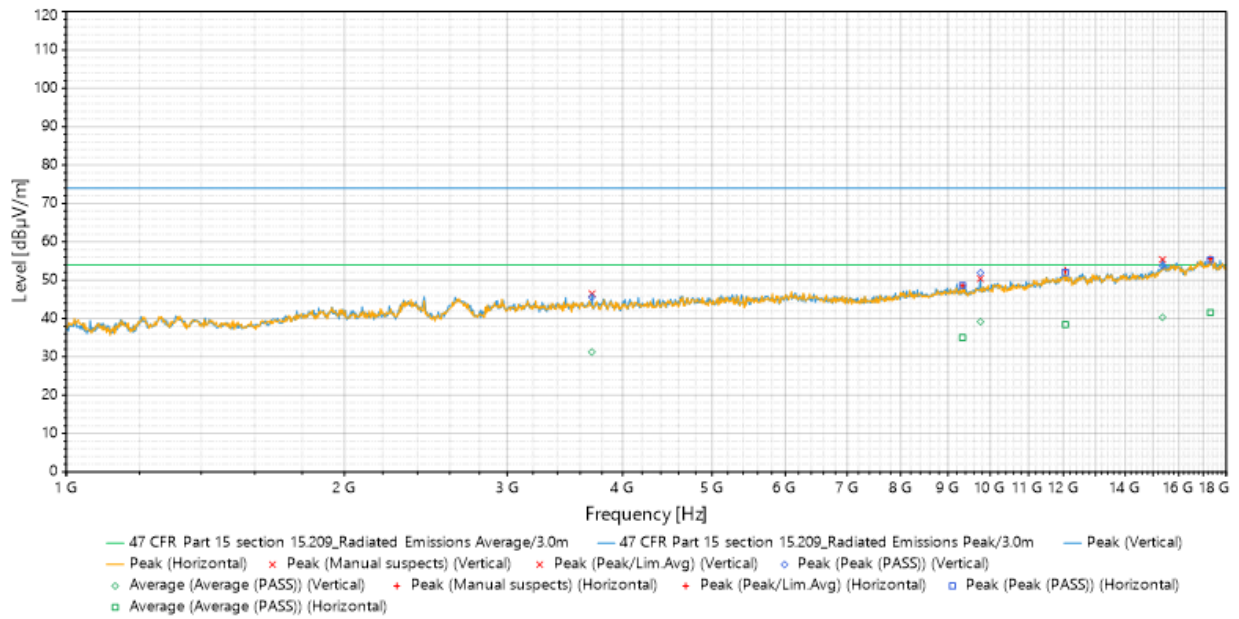


Figure 54. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18069.6	Peak (PASS)	48.239	74	-25.761	2.296	245	Horizontal	1000000	0.1	-1.518
18069.6	Average (PASS)	34.727	54	-19.273	2.296	245	Horizontal	1000000	0.1	-1.518
18083.8	Peak (PASS)	48.205	74	-25.795	1.512	109	Vertical	1000000	0.1	-1.65
18083.8	Average (PASS)	34.756	54	-19.244	1.512	109	Vertical	1000000	0.1	-1.65
20631.2	Peak (PASS)	47.899	74	-26.101	3.768	-27	Horizontal	1000000	0.1	-1.506
20631.2	Average (PASS)	34.343	54	-19.657	3.768	-27	Horizontal	1000000	0.1	-1.506
21785.7	Peak (PASS)	47.951	74	-26.049	3.36	-23	Vertical	1000000	0.1	-1.516
21785.7	Average (PASS)	34.264	54	-19.736	3.36	-23	Vertical	1000000	0.1	-1.516
25951.2	Peak (PASS)	49.09	74	-24.91	2.001	20	Vertical	1000000	0.1	0.227
25951.2	Average (PASS)	35.128	54	-18.872	2.001	20	Vertical	1000000	0.1	0.227
25961.3	Peak (PASS)	48.614	74	-25.386	3.859	260	Horizontal	1000000	0.1	0.081
25961.3	Average (PASS)	34.921	54	-19.079	3.859	260	Horizontal	1000000	0.1	0.081

Table 21. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz) Test Results

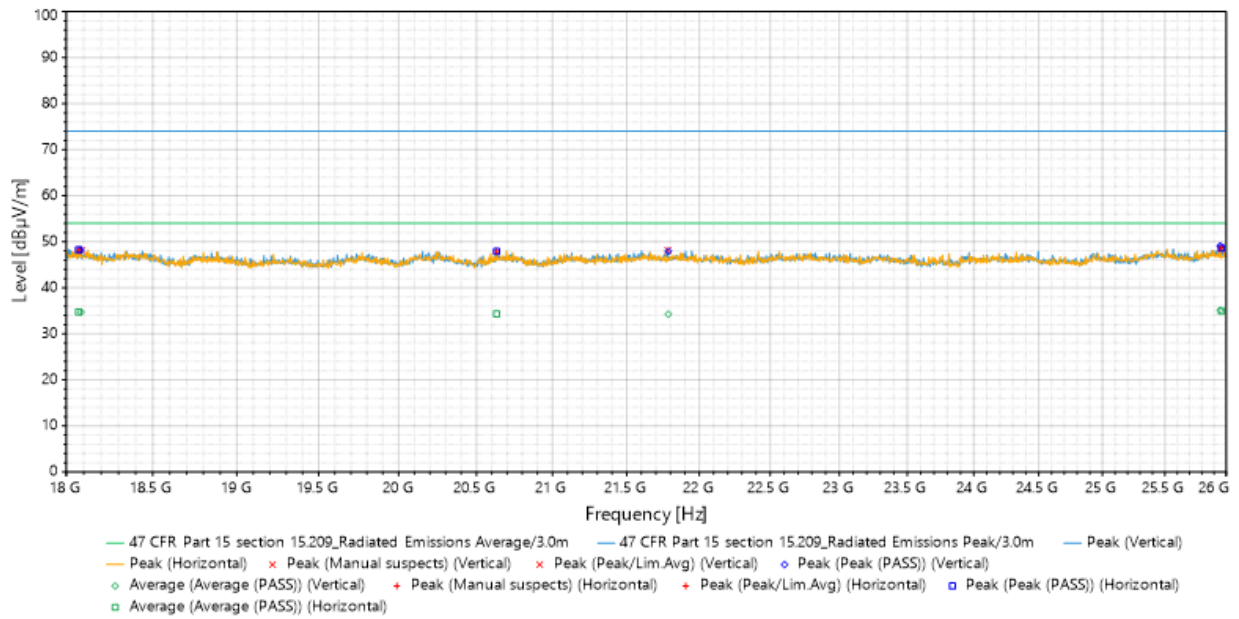


Figure 55. Radiated Spurious Emissions, BLE 1 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18064.6	Peak (PASS)	48.253	74	-25.747	2.783	194	Horizontal	1000000	0.1	-1.515
18064.6	Average (PASS)	34.672	54	-19.328	2.783	194	Horizontal	1000000	0.1	-1.515
18857	Peak (PASS)	48.118	74	-25.882	3.675	44	Vertical	1000000	0.1	-2.103
18857	Average (PASS)	34.496	54	-19.504	3.675	44	Vertical	1000000	0.1	-2.103
21653.3	Peak (PASS)	48.429	74	-25.571	1.132	235	Horizontal	1000000	0.1	-1.63
21653.3	Average (PASS)	34.606	54	-19.394	1.132	235	Horizontal	1000000	0.1	-1.63
24219	Peak (PASS)	48.069	74	-25.931	3.696	192	Vertical	1000000	0.1	-0.96
24219	Average (PASS)	34.124	54	-19.876	3.696	192	Vertical	1000000	0.1	-0.96
25427.8	Peak (PASS)	48.935	74	-25.065	3.574	-17	Horizontal	1000000	0.1	-0.552
25427.8	Average (PASS)	34.679	54	-19.321	3.574	-17	Horizontal	1000000	0.1	-0.552
25964.5	Peak (PASS)	48.616	74	-25.384	4	226	Vertical	1000000	0.1	0.215
25964.5	Average (PASS)	35.098	54	-18.902	4	226	Vertical	1000000	0.1	0.215

Table 22. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz) Test Results

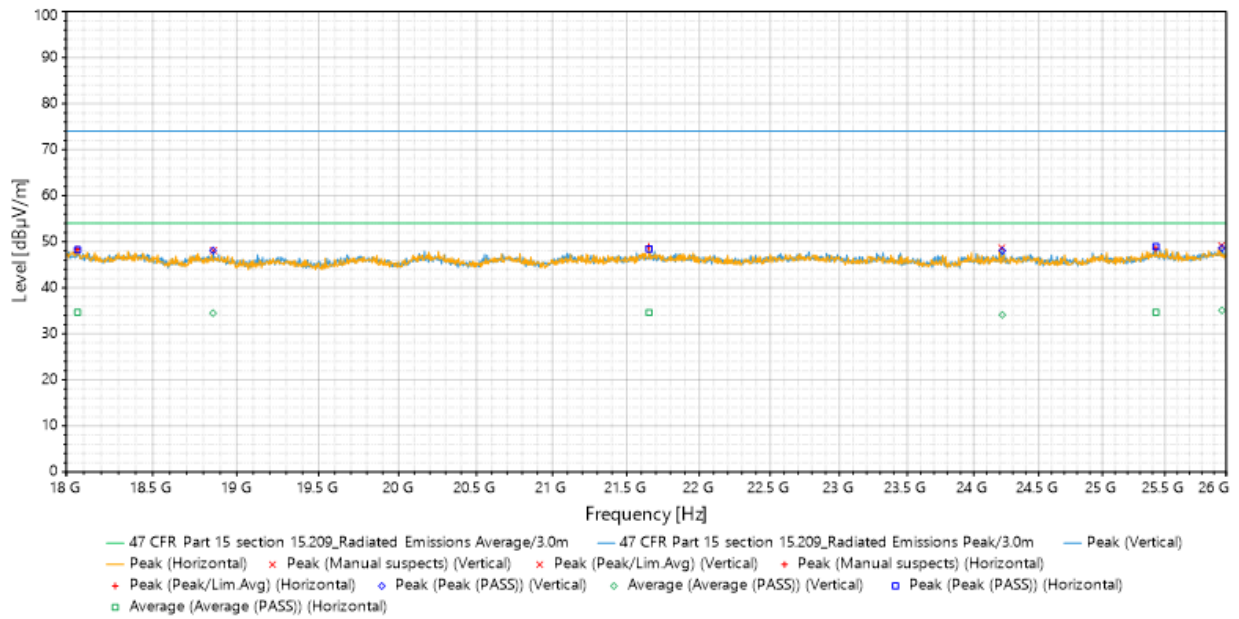


Figure 56. Radiated Spurious Emissions, BLE 2 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz) Plot

BLE High Channel 2480 MHz

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
37.74754	QuasiPeak (PASS)	15.533	40	-24.467	3.815	223	Vertical	120000	0.1	-11.309
38.0018	QuasiPeak (PASS)	23.105	40	-16.895	3.919	26	Horizontal	120000	0.1	-8.672
73.34952	QuasiPeak (PASS)	11.22	40	-28.78	1.282	335	Vertical	120000	0.1	-17.462
73.49886	QuasiPeak (PASS)	7.577	40	-32.423	3.927	60	Horizontal	120000	0.1	-16.006
124.99886	QuasiPeak (PASS)	12.26	43.5	-31.24	4	-9	Horizontal	120000	0.1	-9.236
129.69772	QuasiPeak (PASS)	12.248	43.5	-31.252	3.855	105	Vertical	120000	0.1	-8.274

Table 23. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz) Test Results

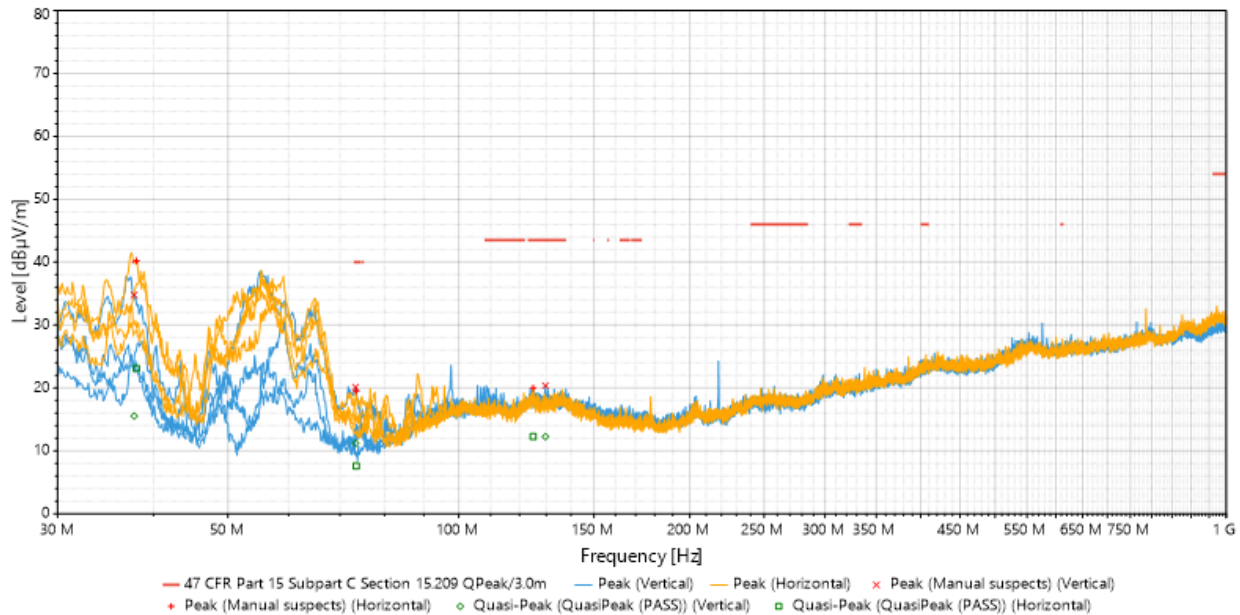


Figure 57. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
38.038	QuasiPeak (PASS)	25.858	40	-14.142	3.966	1	Horizontal	120000	0.1	-8.701
73.742	QuasiPeak (PASS)	12.222	40	-27.778	2.54	290	Horizontal	120000	0.1	-15.996
74.308	QuasiPeak (PASS)	5.8	40	-34.2	3.931	194	Vertical	120000	0.1	-17.416
126.96	QuasiPeak (PASS)	12.12	43.5	-31.38	2.8	54	Vertical	120000	0.1	-8.324
127.226	QuasiPeak (PASS)	11.091	43.5	-32.409	3.921	123	Horizontal	120000	0.1	-9.25

Table 24. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz) Test Results

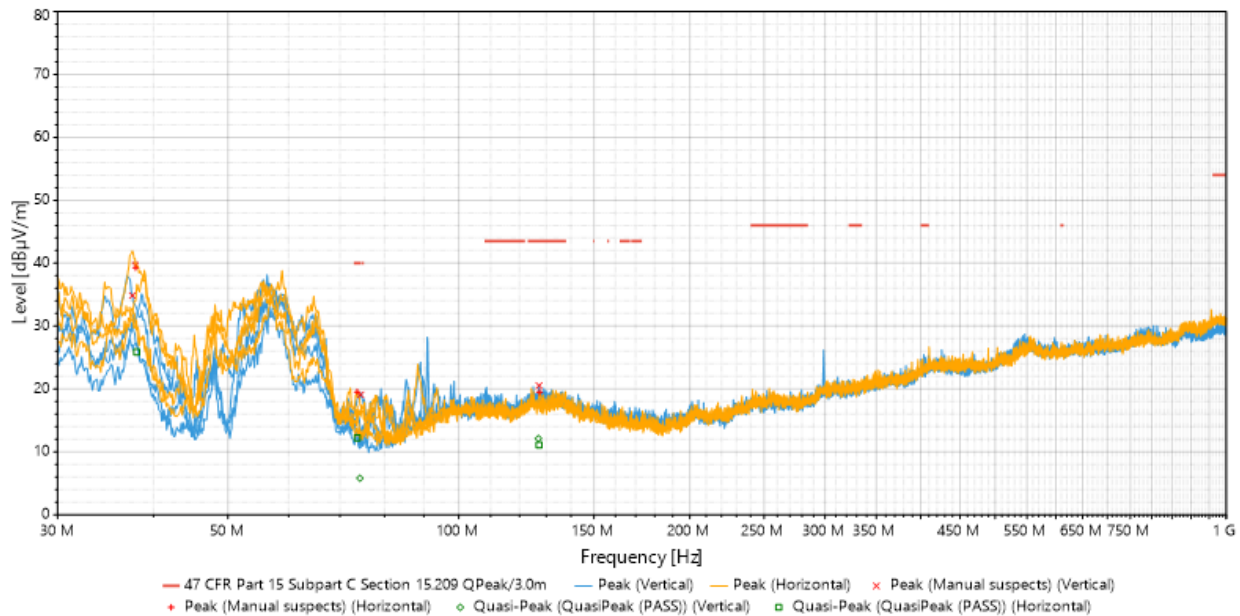


Figure 58. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3769.5	Peak (PASS)	46.532	74	-27.468	1.286	301	Vertical	1000000	0.1	1.383
3769.5	Average (PASS)	31.101	54	-22.899	1.286	301	Vertical	1000000	0.1	1.383
3799	Peak (PASS)	46.24	74	-27.76	3.06	27	Vertical	1000000	0.1	1.419
3799	Average (PASS)	31.376	54	-22.624	3.06	27	Vertical	1000000	0.1	1.419
7371.9	Peak (PASS)	45.94	74	-28.06	2.546	339	Horizontal	1000000	0.1	3.747
7371.9	Average (PASS)	32.336	54	-21.664	2.546	339	Horizontal	1000000	0.1	3.747
13381.6	Peak (PASS)	51.459	74	-22.541	2.534	16	Horizontal	1000000	0.1	5.509
13381.6	Average (PASS)	37.943	54	-16.057	2.534	16	Horizontal	1000000	0.1	5.509
16842.8	Peak (PASS)	55.302	74	-18.698	3.465	38	Vertical	1000000	0.1	6.839
16842.8	Average (PASS)	41.403	54	-12.597	3.465	38	Vertical	1000000	0.1	6.839
16922.1	Peak (PASS)	56.207	74	-17.793	3.116	142	Horizontal	1000000	0.1	6.678
16922.1	Average (PASS)	41.889	54	-12.111	3.116	142	Horizontal	1000000	0.1	6.678

Table 25. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz) Test Results

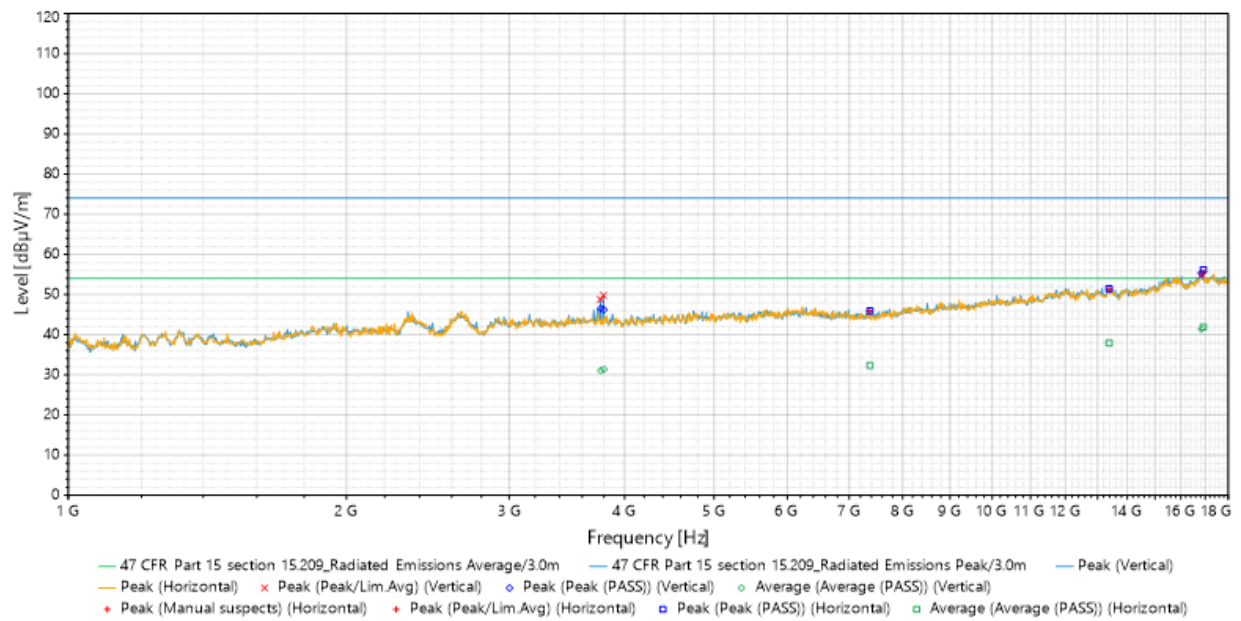


Figure 59. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3782.7	Peak (PASS)	48.786	74	-25.214	1.169	122	Vertical	1000000	0.1	1.399
3782.7	Average (PASS)	30.547	54	-23.453	1.169	122	Vertical	1000000	0.1	1.399
6127.5	Peak (PASS)	47.881	74	-26.119	1.41	336	Horizontal	1000000	0.1	4.289
6127.5	Average (PASS)	33.278	54	-20.722	1.41	336	Horizontal	1000000	0.1	4.289
11991.4	Peak (PASS)	51.832	74	-22.168	2.455	19	Horizontal	1000000	0.1	6.19
11991.4	Average (PASS)	38.164	54	-15.836	2.455	19	Horizontal	1000000	0.1	6.19
12635.8	Peak (PASS)	52.545	74	-21.455	3.582	206	Vertical	1000000	0.1	5.869
12635.8	Average (PASS)	38.584	54	-15.416	3.582	206	Vertical	1000000	0.1	5.869
16834.7	Peak (PASS)	54.607	74	-19.393	4	125	Horizontal	1000000	0.1	6.748
16834.7	Average (PASS)	41.153	54	-12.847	4	125	Horizontal	1000000	0.1	6.748
17325.1	Peak (PASS)	55.022	74	-18.978	3.746	139	Vertical	1000000	0.1	5.824
17325.1	Average (PASS)	41.381	54	-12.619	3.746	139	Vertical	1000000	0.1	5.824

Table 26. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz) Test Results

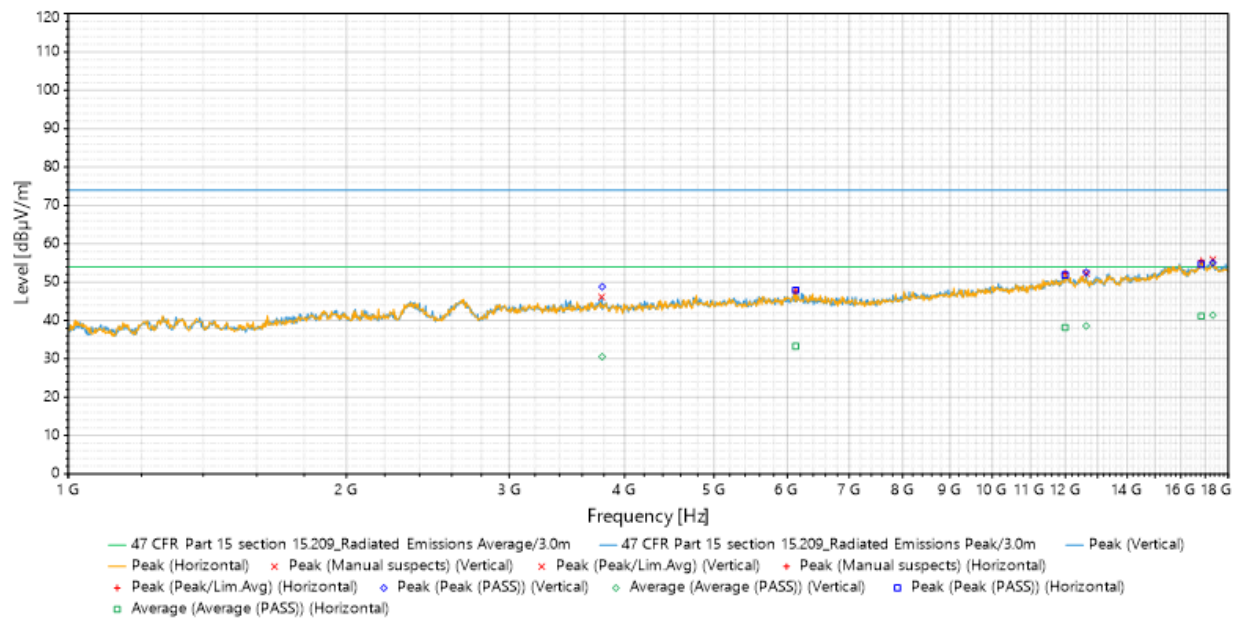


Figure 60. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2483.6798	Peak (PASS)	62.033	74	-11.967	2.084	92	Vertical	1000000	0.1	36.4
2483.6798	Average (PASS)	45.685	54	-8.315	2.084	92	Vertical	1000000	0.1	36.4
2483.739639	Peak (PASS)	61.251	74	-12.749	3.095	35	Horizontal	1000000	0.1	36.207
2483.739639	Average (PASS)	44.797	54	-9.203	3.095	35	Horizontal	1000000	0.1	36.207
2484.549948	Peak (PASS)	60.971	74	-13.029	3.392	41	Vertical	1000000	0.1	36.406
2484.549948	Average (PASS)	44.345	54	-9.655	3.392	41	Vertical	1000000	0.1	36.406
2485.57022	Peak (PASS)	60.598	74	-13.402	1.973	274	Vertical	1000000	0.1	36.412
2485.57022	Average (PASS)	44.012	54	-9.988	1.973	274	Vertical	1000000	0.1	36.412
2485.720139	Peak (PASS)	60.709	74	-13.291	1.03	238	Horizontal	1000000	0.1	36.217
2485.720139	Average (PASS)	43.869	54	-10.131	1.03	238	Horizontal	1000000	0.1	36.217
2487.09998	Peak (PASS)	60.903	74	-13.097	2.311	262	Horizontal	1000000	0.1	36.224
2487.09998	Average (PASS)	43.927	54	-10.073	2.311	262	Horizontal	1000000	0.1	36.224

Table 27. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – Upper Band Edge Test Results

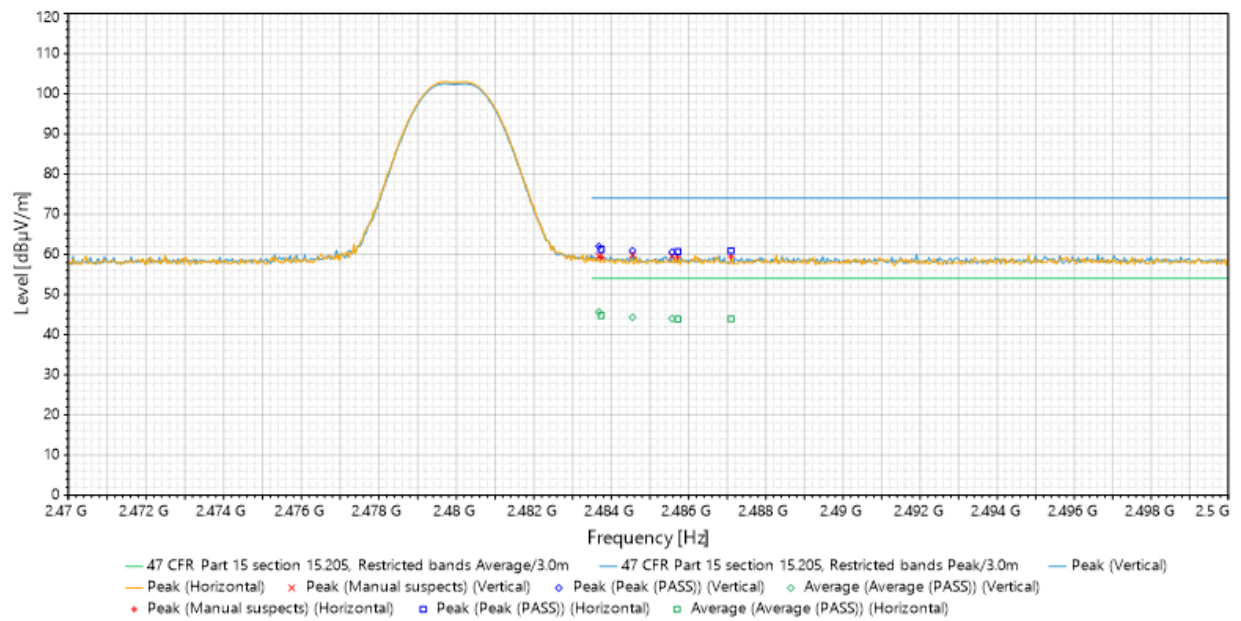


Figure 61. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – Upper Band Edge Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2483.710197	Peak (PASS)	61.821	74	-12.179	2.774	345	Vertical	1000000	0.1	36.401
2483.710197	Average (PASS)	44.842	54	-9.158	2.774	345	Vertical	1000000	0.1	36.401
2483.980085	Peak (PASS)	60.487	74	-13.513	1.03	224	Horizontal	1000000	0.1	36.208
2483.980085	Average (PASS)	44.095	54	-9.905	1.03	224	Horizontal	1000000	0.1	36.208
2485.269874	Peak (PASS)	60.555	74	-13.445	1.632	-23	Horizontal	1000000	0.1	36.215
2485.269874	Average (PASS)	43.718	54	-10.282	1.632	-23	Horizontal	1000000	0.1	36.215
2485.750201	Peak (PASS)	60.913	74	-13.087	2.779	293	Vertical	1000000	0.1	36.413
2485.750201	Average (PASS)	44.417	54	-9.583	2.779	293	Vertical	1000000	0.1	36.413
2487.130238	Peak (PASS)	60.483	74	-13.517	3.696	287	Horizontal	1000000	0.1	36.224
2487.130238	Average (PASS)	43.751	54	-10.249	3.696	287	Horizontal	1000000	0.1	36.224
2496.490228	Peak (PASS)	61	74	-13	1.516	346	Vertical	1000000	0.1	36.466
2496.490228	Average (PASS)	44.176	54	-9.824	1.516	346	Vertical	1000000	0.1	36.466

Table 28. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – Upper Band Edge Test Results

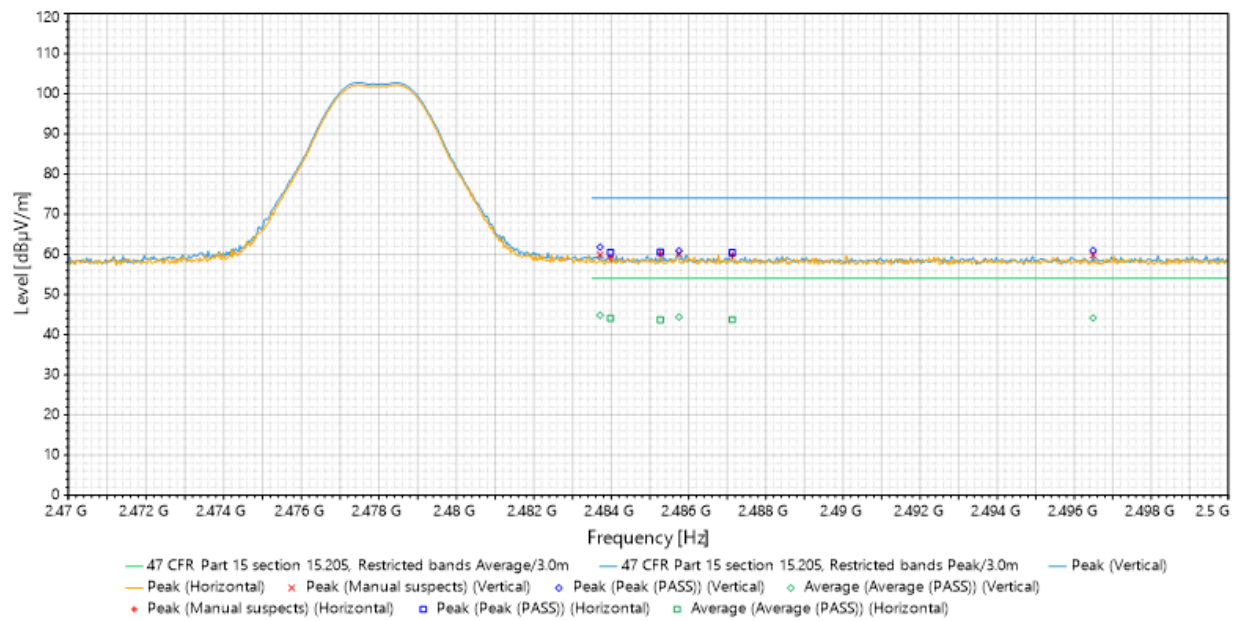


Figure 62. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – Upper Band Edge Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18107.6	Peak (PASS)	48.18	74	-25.82	3.278	28	Vertical	1000000	0.1	-1.647
18107.6	Average (PASS)	34.598	54	-19.402	3.278	28	Vertical	1000000	0.1	-1.647
18125.7	Peak (PASS)	48.333	74	-25.667	3.625	144	Horizontal	1000000	0.1	-1.524
18125.7	Average (PASS)	34.613	54	-19.387	3.625	144	Horizontal	1000000	0.1	-1.524
19108.1	Peak (PASS)	47.043	74	-26.957	3.69	90	Horizontal	1000000	0.1	-2.272
19108.1	Average (PASS)	33.189	54	-20.811	3.69	90	Horizontal	1000000	0.1	-2.272
20665	Peak (PASS)	48.663	74	-25.337	2.089	52	Vertical	1000000	0.1	-1.454
20665	Average (PASS)	34.611	54	-19.389	2.089	52	Vertical	1000000	0.1	-1.454
24740.8	Peak (PASS)	47.786	74	-26.214	1.066	163	Vertical	1000000	0.1	-0.907
24740.8	Average (PASS)	33.424	54	-20.576	1.066	163	Vertical	1000000	0.1	-0.907
25915.7	Peak (PASS)	48.341	74	-25.659	1.976	7	Horizontal	1000000	0.1	0.134
25915.7	Average (PASS)	34.872	54	-19.128	1.976	7	Horizontal	1000000	0.1	0.134

Table 29. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz) Test Results

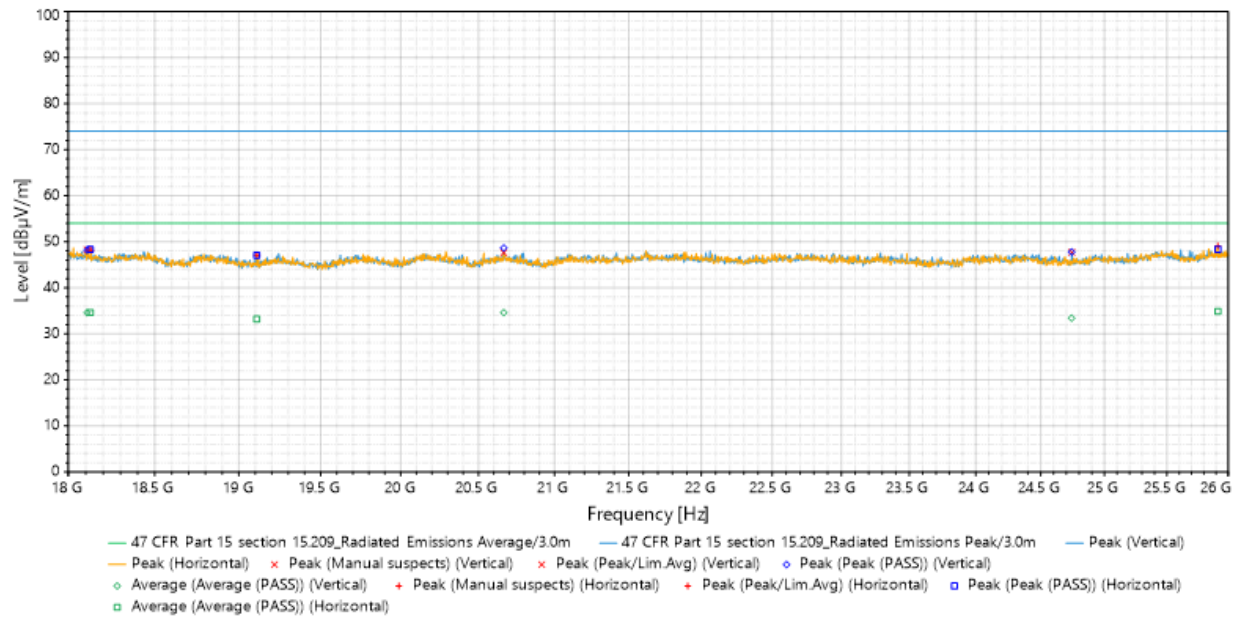


Figure 63. Radiated Spurious Emissions, BLE 1 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz) Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18139.6	Peak (PASS)	49.092	74	-24.908	1.743	132	Horizontal	1000000	0.1	-1.517
18139.6	Average (PASS)	34.511	54	-19.489	1.743	132	Horizontal	1000000	0.1	-1.517
18426	Peak (PASS)	48.421	74	-25.579	1.939	209	Vertical	1000000	0.1	-1.844
18426	Average (PASS)	34.843	54	-19.157	1.939	209	Vertical	1000000	0.1	-1.844
20152.1	Peak (PASS)	49.013	74	-24.987	2.68	28	Horizontal	1000000	0.1	-1.662
20152.1	Average (PASS)	34.519	54	-19.481	2.68	28	Horizontal	1000000	0.1	-1.662
21525.5	Peak (PASS)	48.289	74	-25.711	3.898	20	Vertical	1000000	0.1	-1.52
21525.5	Average (PASS)	34.724	54	-19.276	3.898	20	Vertical	1000000	0.1	-1.52
21748.1	Peak (PASS)	47.947	74	-26.053	1.516	317	Horizontal	1000000	0.1	-1.622
21748.1	Average (PASS)	34.119	54	-19.881	1.516	317	Horizontal	1000000	0.1	-1.622
25394.8	Peak (PASS)	48.284	74	-25.716	2.809	206	Vertical	1000000	0.1	-0.612
25394.8	Average (PASS)	34.464	54	-19.536	2.809	206	Vertical	1000000	0.1	-0.612

Table 30. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz) Test Results

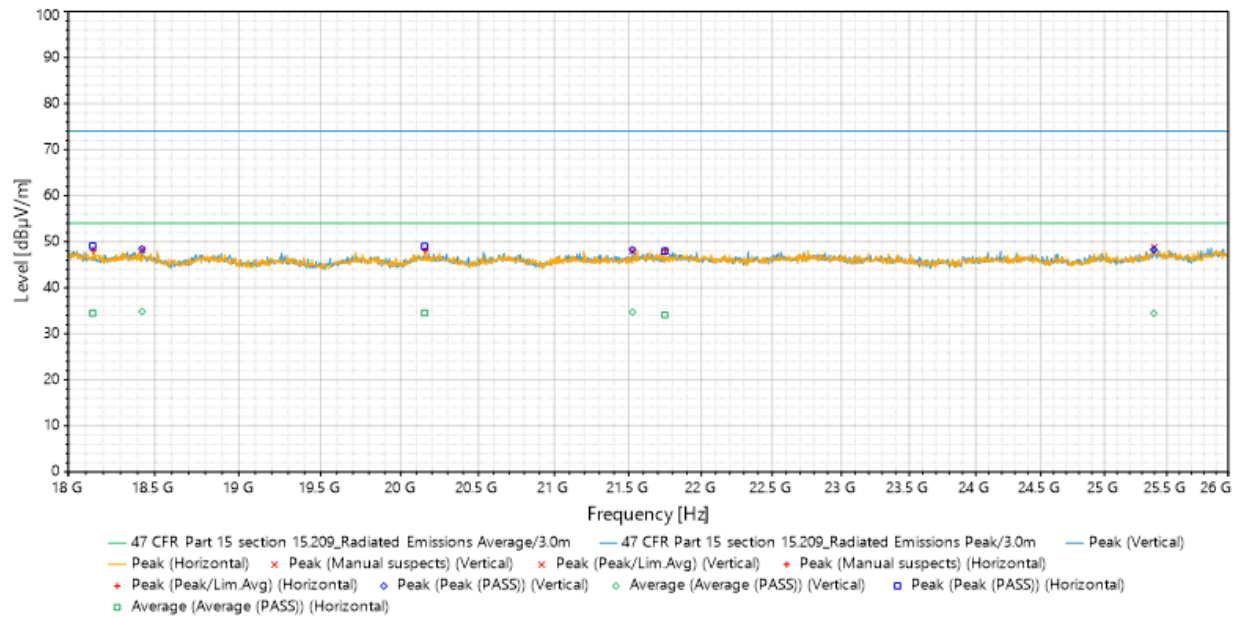


Figure 64. Radiated Spurious Emissions, BLE 2 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz) Plot

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Test Name: FCC 15.247 & RSS-247 Radiated Spurious Emissions			Test Date(s): 06/29/2026 – 06/30/2026		
Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2399	Turntable Controller	Sunol Sciences	SC99V	See Note 1	
1S4856	Antenna Positioning Tower	ETS-Lindgren	2171B	See Note 1	
1S2482	5 Meter Chamber	Panashield - ETS	5 Meter Semi-Anechoic Chamber	See Note 2	
1S4804	EMI Test Receiver	Rohde & Schwarz	ESW44	08/15/2025	08/15/2026
1S2600	Bilog Antenna	Teseq	CBL6112D	06/10/2025	06/10/2027
1S2435	Horn Antenna	ETS-Lindgren	3117	03/17/2025	03/17/2027
1U0327	DRG Horn Antenna	A.H. Systems, Inc.	SAS-574	11/28/2024	11/28/2026
1S2668	Pre-Amplifier	Sonoma Instruments	310 N	03/18/2025	03/18/2027
1S4802	Pre-Amplifier	EMC Instruments Corporation	EMC118A45SE	05/06/2026	05/06/2027
1S3865	Table Top Amplifier	MITEQ	TTA1840-35-HG	05/01/2026	05/01/2027
Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					
Note 2: Latest NSA and VSWR data available upon request.					

Table 31. Radiated Spurious Emissions, Test Equipment

END OF REPORT