

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26ZFDO 002	Auftrags-Nr.: <i>Order no.:</i>	168575881	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-09-22	
Auftraggeber: <i>Client:</i>	AoFrio Ltd. 78 Apollo Drive, Rosedale, Auckland 0632, New Zealand			
Prüfgegenstand: <i>Test item:</i>	Cellular Connected Controller			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	SCS 800 (Trademark: AoFrio)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15.247 CFR Title 47 FCC Part 22 CFR Title 47 FCC Part 24 CFR Title 47 FCC Part 27 CFR Title 47 FCC Part 90		RSS-247 Issue 4 RSS-130 Issue 2 RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 3	
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-12-16	Refer to photos documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004163921-001~004			
Prüfzeitraum: <i>Testing period:</i>	2025-12-16 - 2026-01-22			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	Hardy <i>X</i>  Suo		genehmigt von: <i>authorized by:</i>	Lin Lin <i>X</i> 
Datum: <i>Date:</i>	2026-01-29		Ausstellungsdatum: <i>Issue date:</i>	2026-01-29
Stellung / Position	Sachverständige(r)/Expert		Stellung / Position	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AHCE-SCS2 IC: 21145-SCS2 HVIN: SCS 800			
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

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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, 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. <i>The decision rule for statements of conformity, based on numerical measurement results, in this 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 . For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Date for Bluetooth LE

Appendix B: Test Date for Spurious Emissions for 2.4GHz Wi-Fi and LTE

Appendix C: Test Set-up Photos

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Test Site Number: CN1260

ISED Test Lab CAB identifier:CN0078

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997-R&S)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Cal. Date (DD.MM.YYYY)	Cal. until (DD.MM.YYYY)
G1825794	Wireless Connectivity Tester	R&S	CMW270	101375	23.09.2025	22.09.2026
G1825795	Signal Analyzer	R&S	FSV 40	101441	23.09.2025	22.09.2026
G1825796	Vector Signal Generator	R&S	SMBV100A	263301	30.10.2025	29.10.2026
G1825797	Signal Generator	R&S	SMB100A	115186	23.09.2025	22.09.2026
G1825798	OSP	R&S	OSP 150	101017	30.10.2025	29.10.2026
G1825799	Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A	N/A
G1825800	Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A	N/A
G1825801	Power Meter	R&S	NRP2	107105	30.10.2025	29.10.2026
G1829620	Power Sensor	R&S	NRP-Z81	105677	23.09.2025	22.09.2026
9039455	High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	23.09.2025	22.09.2026
G1826431	Shielding Room	Albatross	SR1	APC17151-SR1	14.09.2024	13.09.2027
Unwanted Emission Testing (TS9975)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Cal. Date (DD.MM.YYYY)	Cal. until (DD.MM.YYYY)
G1826021	EMI Test Receiver	R&S	ESR 7	102021	22.09.2025	21.09.2026
G1826023	Signal Analyzer	R&S	FSV 40	101439	22.09.2025	21.09.2026
G1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
G1826025	Filterbank	R&S	Wlan	100759	22.09.2025	21.09.2026
G1826026	OSP	R&S	OSP 120	102040	N/A	N/A
G1826028	Pre-amplifier	R&S	SCU08F1	08320031	22.09.2025	21.09.2026
G1826029	Amplifier	R&S	SCU-18F	180070	22.09.2025	21.09.2026
G1826030	Amplifier	R&S	SCU40A	100475	22.09.2025	21.09.2026
G1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	28.09.2024	27.09.2026
G1826032	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	28.09.2024	27.09.2026
G1826033	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	28.09.2024	27.09.2026
G1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	28.09.2024	27.09.2026
G1826036	Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
G1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
G1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	14.09.2024	13.09.2027

Conducted Emission on AC Mains

Equip. No.	Equipment	Manufacturer	M/N	S/N	Cal. Until
GC-SZ 001009	EMI Test Receiver	R&S	ESR3	102428	2026-07-18

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GC-SZ 004634	Artificial Mains Network	R&S	ENV432	101546	2026-02-09
GC-SZ 001017	Impedance Stabilisation Network	R&S	ENY81	100323	2026-05-15
G1825090	EMC32 Test Software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
G1825794	Wireless Connectivity Tester	R&S	CMW270	101375	2026-09-22

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
RF output power, conducted	$\pm 0.99 \text{ dB}$
RF power density, conducted	$\pm 0.99 \text{ dB}$
Unwanted Emissions, conducted	$\pm 0.89 \text{ dB}$
All emissions, radiated	$\pm 4.17 \text{ dB}$
Conducted Emission (9kHz to 150kHz)/(150kHz to 30MHz)	$\pm 3.70 \text{ dB} / \pm 3.30 \text{ dB}$

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

This product is a Cellular Connected Controller with Bluetooth LE, 2.4GHz Wi-Fi and LTE wireless technologies.

Contains FCC ID: XMR20211108FC41D, XMR202007BG95M6 (or XMR2023EG916QGL)

Contains IC: 10224A-202111FC41D, 10224A-2020BG95M6 (or 10224A-023EG916QGL)

This device contains two approved wireless transmitter modules:

- 1) One Stand-alone Wi-Fi&Bluetooth module (M/N: FC41D, FCC ID: XMR20211108FC41D, IC: 10224A-202111FC41D) without change than it was approved except disabled Bluetooth function via software by AoFrio Ltd.
- 2) Alternative LTE Cat M1 & NB2 Module (M/N: BG96-M6, FCC ID: XMR202007BG95M6, IC: 10224A-2020BG95M6) or LTE Cat 1 bis Module (M/N: EG916Q-GL, FCC ID: XMR2023EG916QGL, IC: 10224A-023EG916QGL) without change than it was approved except with a new LTE antenna and disabled GNSS function of BG96-M6 and EG916Q-GL via software by AoFrio Ltd.

This report is for fully testing on Bluetooth LE and additional radiated spurious emissions testing on certified Stand-alone Wi-Fi&Bluetooth module (M/N: FC41D) and LTE Cat M1 & NB2 Module (M/N: BG96-M6) or LTE Cat 1 bis Module (M/N: EG916Q-GL) installed into HOST Cellular Connected Controller (M/N: SCS 800), was re-performed.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment	Cellular Connected Controller
Type Designation	SCS 800
Trademark	AoFrio
FCC ID	2AHCE-SCS2
IC	21145-SCS2
HVIN	SCS 800
Operating Voltage:	Input voltage range: AC 90-240V, 50/60Hz Control outputs: • 2 x Relay: ▪ 1x UL: 7.2FLA & 34.8LRA, IEC: 8A ▪ 1x UL: 3A, IEC: 3A • 2 x 0.4A (solid state triac) • 3 x PWM: LED Lighting • 1 x VSC control (12V, 25mA) Voltage outputs:

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	1 x 5V DC output for powering displays, gas sensors, PIR etc. - Max output current should not exceed 11.8A
Testing Voltage:	AC 120V/60Hz
Operating Temperature Range:	-20 °C ~ +55 °C
Remark: This product assemblies multi-transmitter modules: - Stand-alone Wi-Fi&Bluetooth module (M/N: FC41D, FCC ID: XMR20211108FC41D, IC: 10224A-202111FC41D) - LTE Cat M1 & NB2 Module (M/N: BG96-M6, FCC ID: XMR202007BG95M6, IC: 10224A-2020BG95M6) or LTE Cat 1 bis Module (M/N: EG916Q-GL, FCC ID: XMR2023EG916QGL, IC: 10224A-023EG916QGL)	
Technical Specification of Bluetooth LE	
Characteristic	Description
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK
Data Rate	1Mbps, 2Mbps
Antenna Number	1
Antenna Gain	1.56dBi (declared by client)
Technical Specification of Wi-Fi (Contains Stand-alone Wi-Fi&Bluetooth module (M/N: FC41D))	
Characteristic	Description
Operating Frequency	2412 - 2462 MHz for 802.11b/g/n(HT20)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0-MCS7 for 802.11n(HT20)
Channel Number	11 channels for 802.11b/g/n(HT20)
Antenna Number	1
Model of contained Wi-Fi module	FC41D
FCC ID	XMR20211108FC41D
IC	10224A-202111FC41D
Technical Specification of LTE (Contains LTE Cat M1 & NB2 Module (M/N: BG96-M6))	
Characteristic	Description
Operating Frequency	LTE/NB-IOT band 2, band 4, band 5, band 12, band 13, band 25, band 26, band 66, band 71, band 85
Type of Modulation	BPSK, QPSK, 16QAM
Category	NB2
Antenna Number	1
Model of contained LTE module	BG96-M6
FCC ID	XMR202007BG95M6
IC	10224A-2020BG95M6
Technical Specification of LTE (Contains LTE Cat 1 bis Module (M/N: EG916Q-GL))	
Characteristic	Description
Operating Frequency	LTE band 2, band 4, band 5, band 7, band 12, band 13, band 25, band 26, band 38, band 41, band 66
Type of Modulation	QPSK, 16QAM
Antenna Number	1
Model of contained LTE module	EG916Q-GL
FCC ID	XMR2023EG916QGL
IC	10224A-023EG916QGL

Remark: Bluetooth LE, 2.4 GHz Wi-Fi and LTE are not capable of simultaneous transmission, as declared by AoFrio Ltd.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE Transmitting
- B. On, 2.4GHz Wi-Fi
- C. On, LTE

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Block Diagram
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10-2020 + Corrigendum 1-2023 + Amendment 1-2024. Pre-testing on all ANT ports and operational modes, the worst case was recorded in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial Number or Rating
Portable Laptop	Lenovo	ThinkPad T480	n/a

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

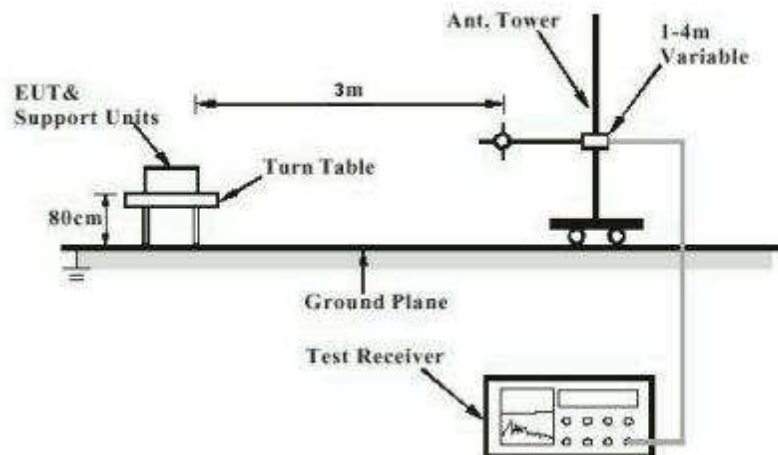


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

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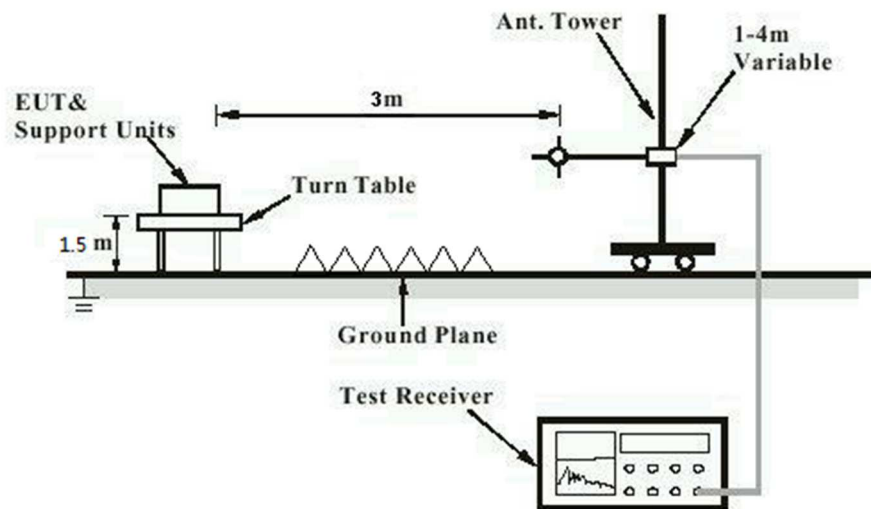
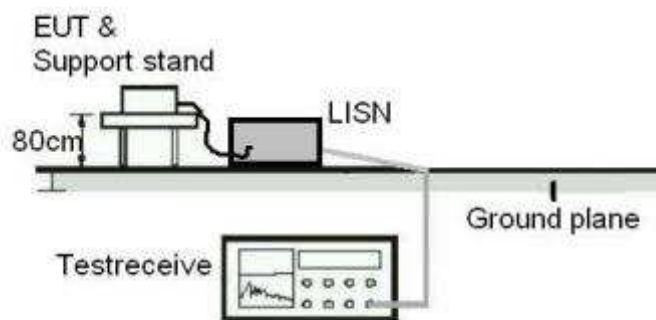


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

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

According to the manufacturer declared, the EUT has one integral antenna for Bluetooth LE, the directional gain of antenna is 1.56 dBi, the antennas connector is designed unique.

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

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing	:	2025-12-16 - 2026-01-22
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 °C
Relative humidity	:	50 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

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Table 4: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth LE	1 Mbps	2402	2.6	0.0018	< 1.0
		2440	3.5	0.0022	
		2480	3.6	0.0023	
	2 Mbps	2402	2.8	0.0019	
		2440	3.5	0.0022	
		2480	3.7	0.0023	
Maximum Measured Value			3.7	0.0023	
Max. e.i.r.p.=3.7dBm+1.56dBi=5.26dBm, which is less than 36dBm=4W.					

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 1.56 dBi for Bluetooth LE

5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing	:	2025-12-16 - 2026-01-22
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 °C
Relative humidity	:	50 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing	:	2025-12-16 - 2026-01-22
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 °C
Relative humidity	:	50 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	:	ANSI C63.10-2020 + Corrigendum 1-2023 + Amendment 1-2024
Kind of test site	:	Shielded Room

Test Setup

Date of testing	: 2025-12-16 - 2026-01-22
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing	: 2025-12-16 - 2026-01-22
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

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

For the measurement records, refer to the appendix A.

5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
		CFR Title 47 FCC Part 22
	:	CFR Title 47 FCC Part 24
		CFR Title 47 FCC Part 27
		CFR Title 47 FCC Part 90
		RSS-247 Clause 6.6
		RSS-130 Issue 2
		RSS-132 Issue 3
		RSS-133 Issue 6
Basic standard	:	RSS-139 Issue 3
		ANSI C63.10-2020 + Corrigendum 1-2023 + Amendment 1-2024
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
		RSS-Gen Section 8.9 & 8.10
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2025-12-16 - 2026-01-22
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A, B, C
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

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

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

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5.1.8 Conducted emissions

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10-2020 + Corrigendum 1-2023 + Amendment 1-2024
Frequency range	: 150KHz - 30MHz
Limit	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-12-16 - 2026-01-22
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B, C
Earthing	: Not Connected
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

For the measurement records, refer to the appendix A.

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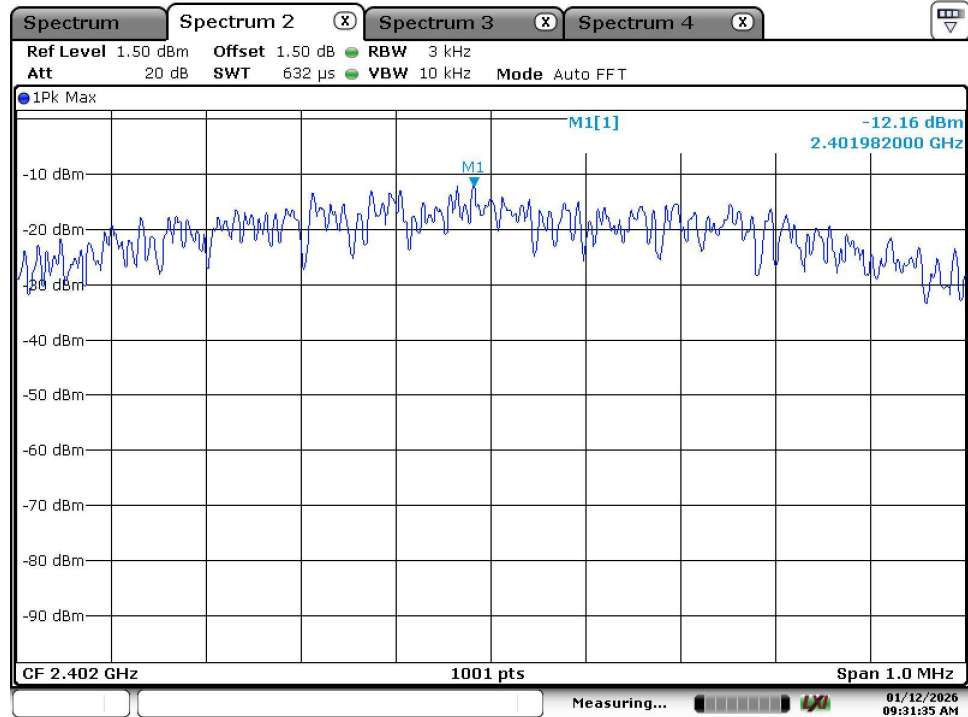
Appendix A.1: Test Results of Conducted Power Spectral Density

Test Result

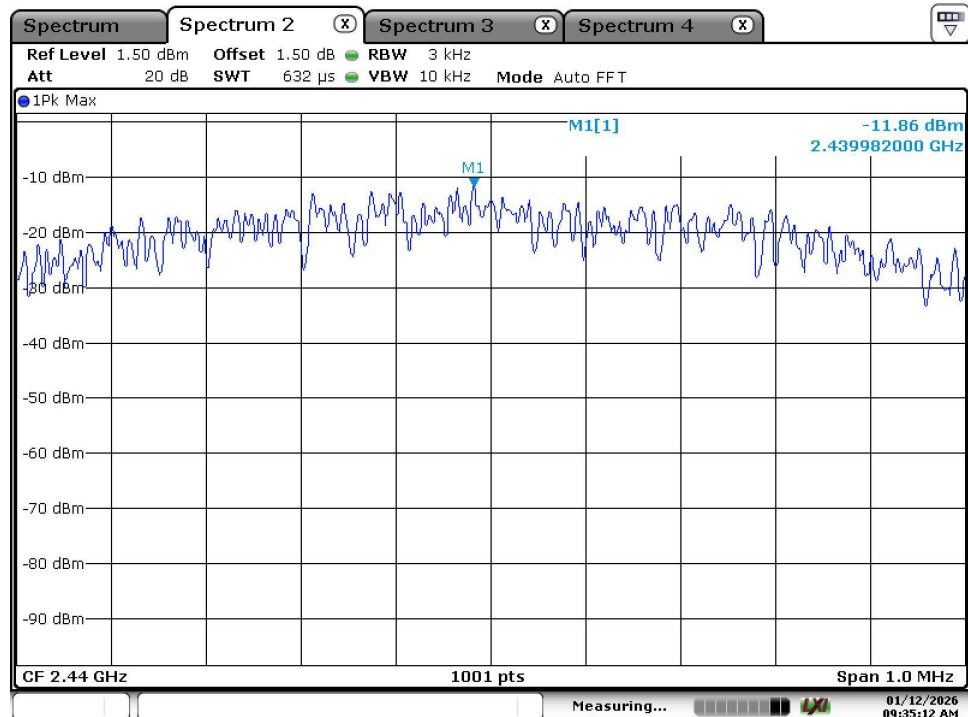
TestMode	ANT Port	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Bluetooth LE_1Mbps	ANT 1	2402	-12.16	≤8.00	PASS
		2440	-11.85	≤8.00	PASS
		2480	-11.32	≤8.00	PASS
Bluetooth LE_2Mbps	ANT 1	2402	-14.62	≤8.00	PASS
		2440	-14.21	≤8.00	PASS
		2480	-13.75	≤8.00	PASS

Test Graphs

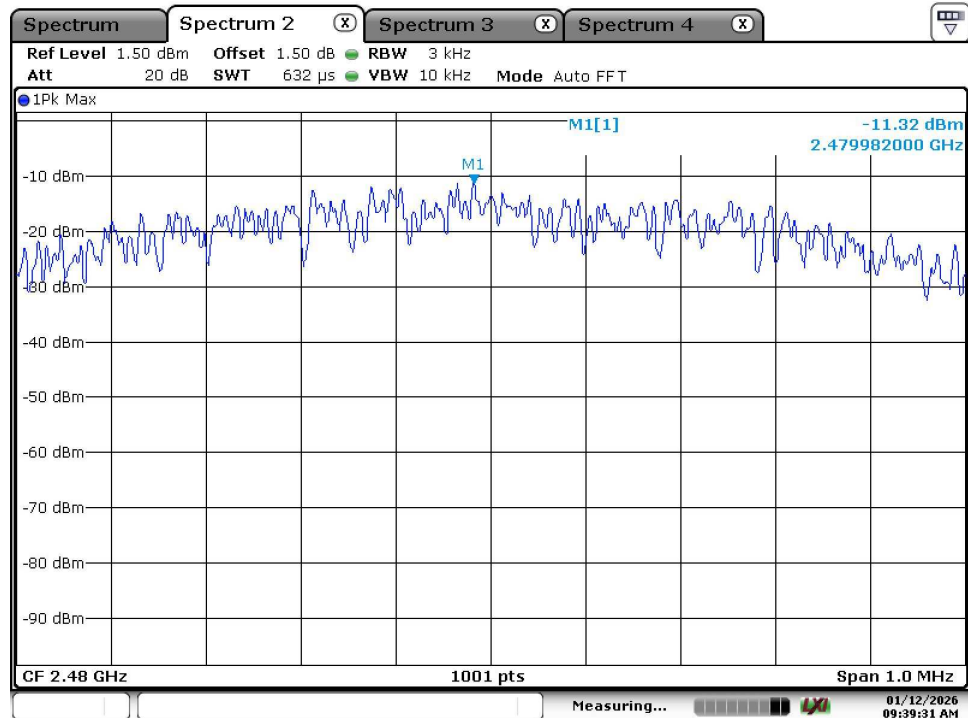
Bluetooth LE, 1Mbps



Date: 12.JAN.2026 09:31:34

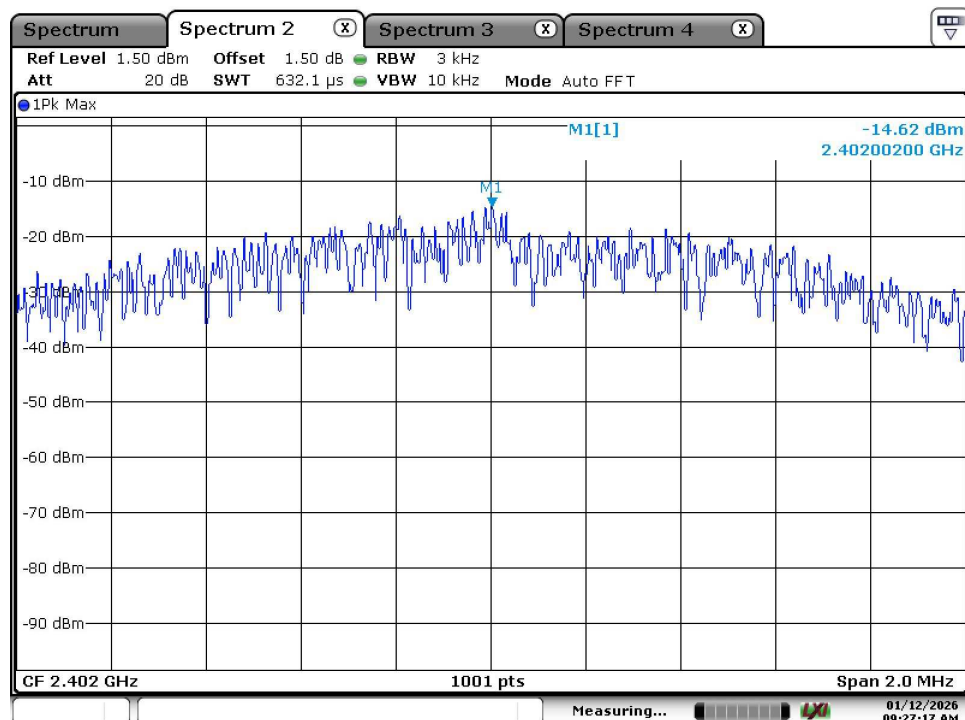


Date: 12.JAN.2026 09:35:12

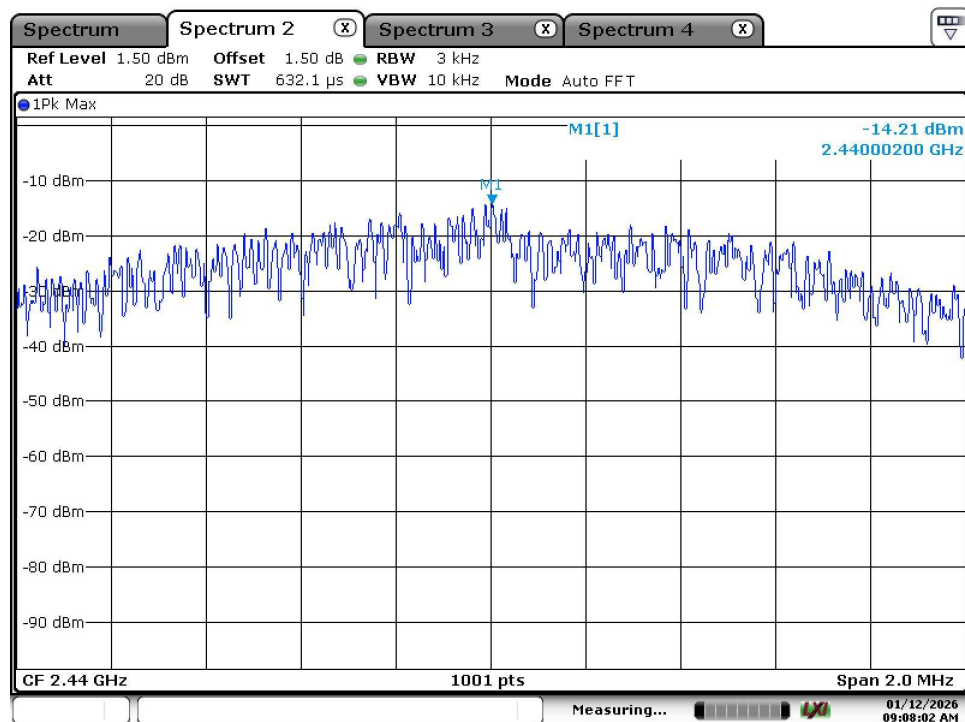


Date: 12.JAN.2026 09:39:31

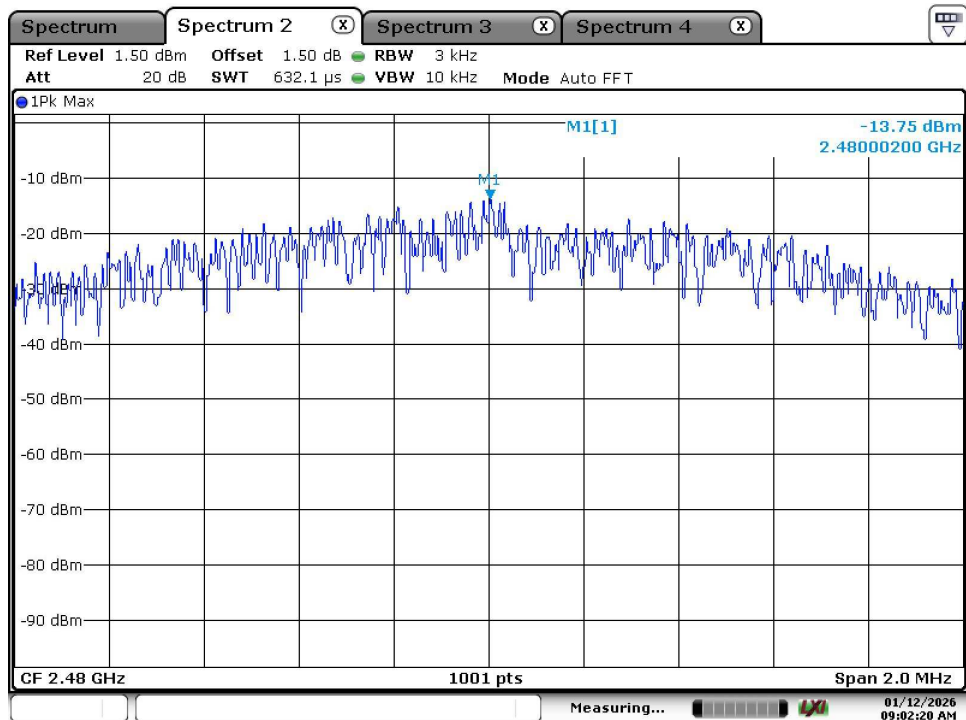
Bluetooth LE, 2Mbps



Date: 12.JAN.2026 09:27:16



Date: 12.JAN.2026 09:08:01



Date: 12.JAN.2026 09:02:21

Appendix A.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Bluetooth LE_1Mbps	2402	0.712872	2401.643564	2402.356436	0.5	PASS
	2440	0.732674	2439.643564	2440.376238	0.5	PASS
	2480	0.712872	2479.643564	2480.356436	0.5	PASS
Bluetooth LE_2Mbps	2402	1.188118	2401.405941	2402.594059	0.5	PASS
	2440	1.188118	2439.405941	2440.594059	0.5	PASS
	2480	1.188118	2479.405941	2480.594059	0.5	PASS

Test Graphs

Bluetooth LE, 1Mbps

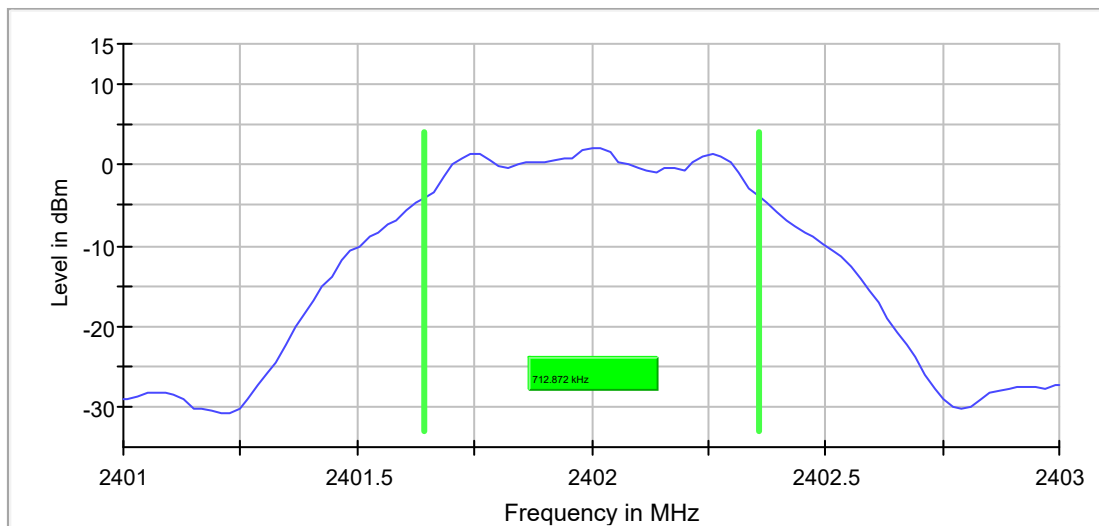
Minimum Emission Bandwidth 6 dB (2402 MHz; 20.000 dBm; 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.712872	0.500000	---	2401.643564	2402.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.05 dB	0.50 dB

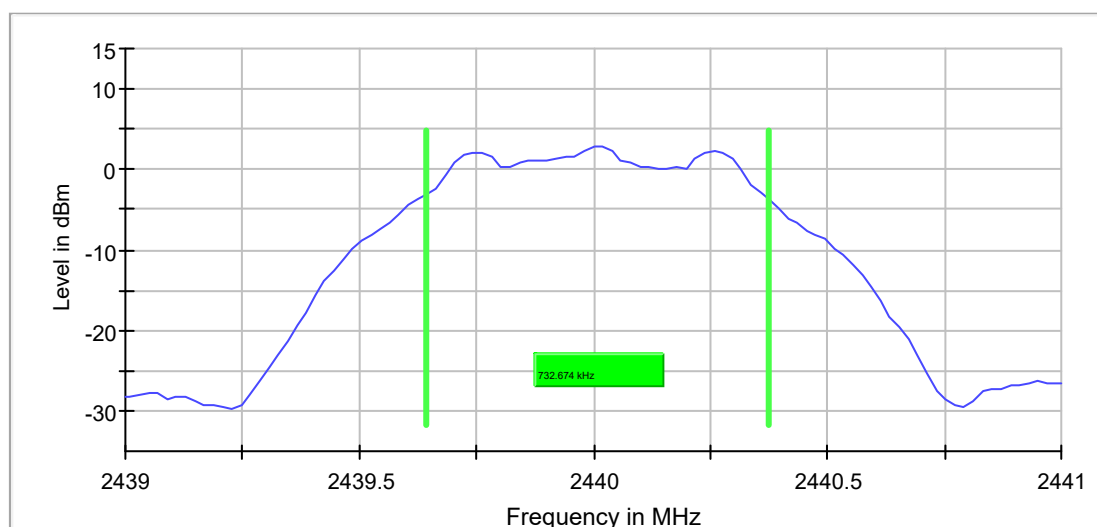
Minimum Emission Bandwidth 6 dB (2440 MHz; 20.000 dBm; 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.732674	0.500000	---	2439.643564	2440.376238

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweptime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.05 dB	0.50 dB

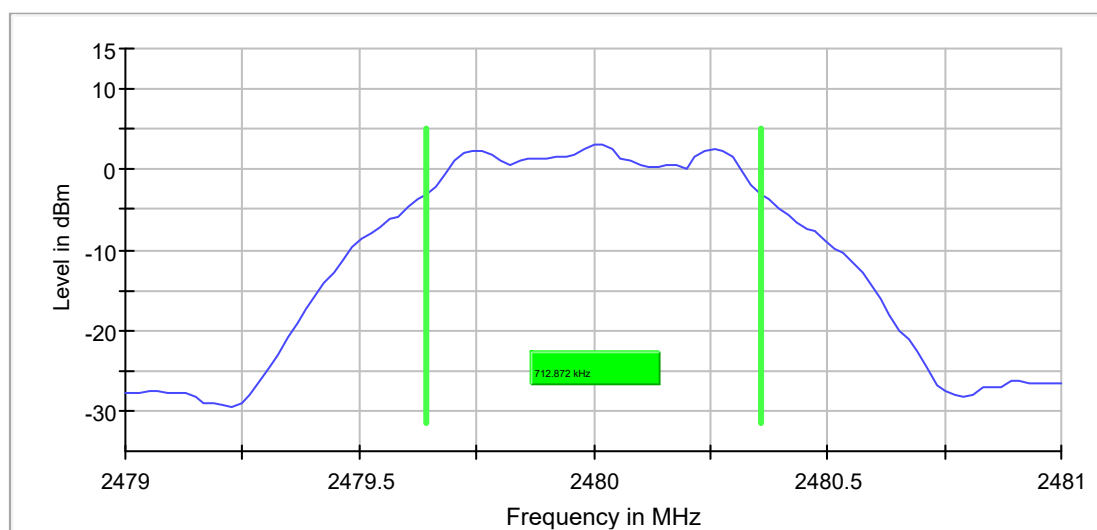
Minimum Emission Bandwidth 6 dB (2480 MHz; 20.000 dBm; 1 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.712872	0.500000	---	2479.643564	2480.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweptime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

Bluetooth LE, 2Mbps

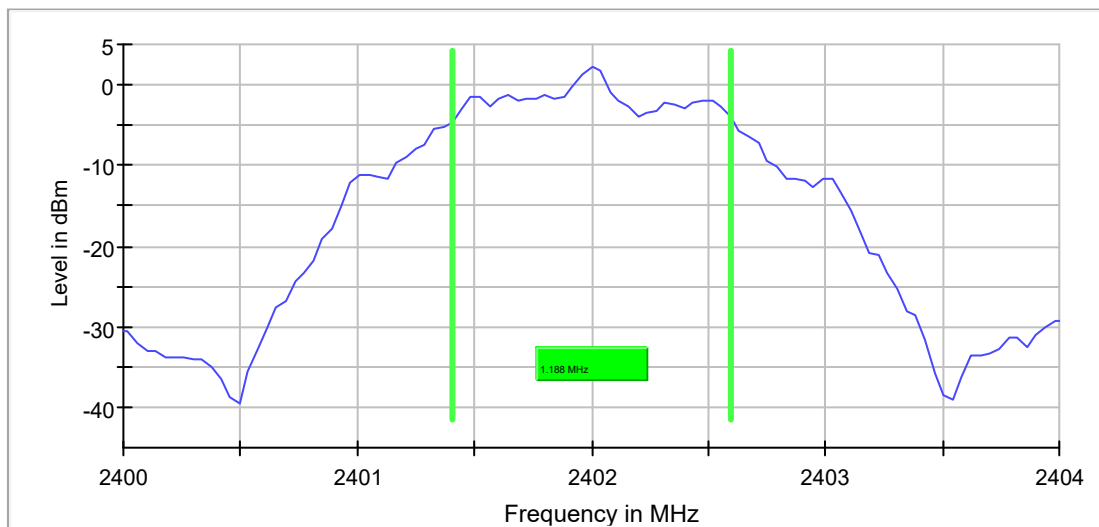
Minimum Emission Bandwidth 6 dB (2402 MHz; 20.000 dBm; 2 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.188118	0.500000	---	2401.405941	2402.594059

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.20 dB	0.50 dB

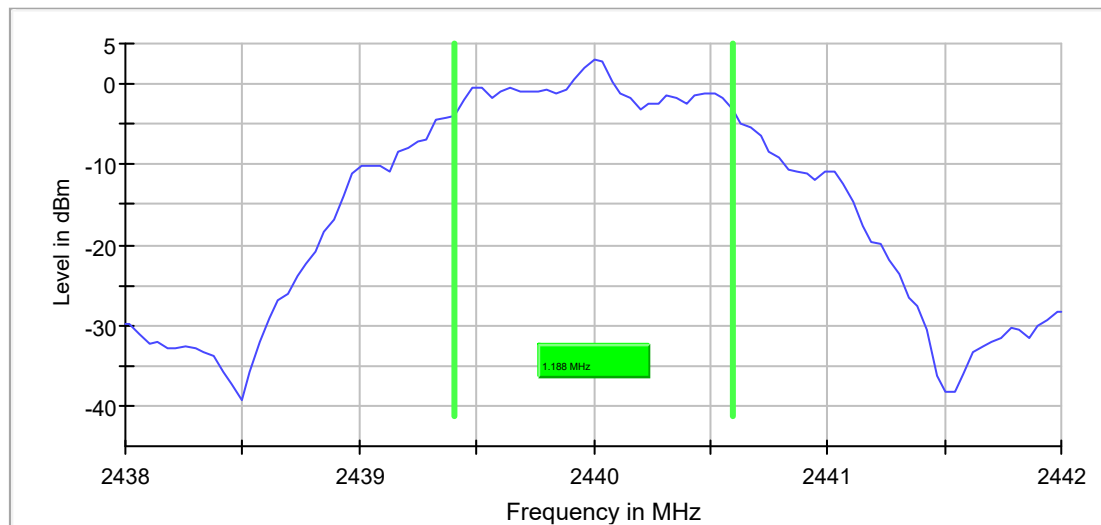
Minimum Emission Bandwidth 6 dB (2440 MHz; 20.000 dBm; 2 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.188118	0.500000	---	2439.405941	2440.594059

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweptime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	14 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.19 dB	0.50 dB

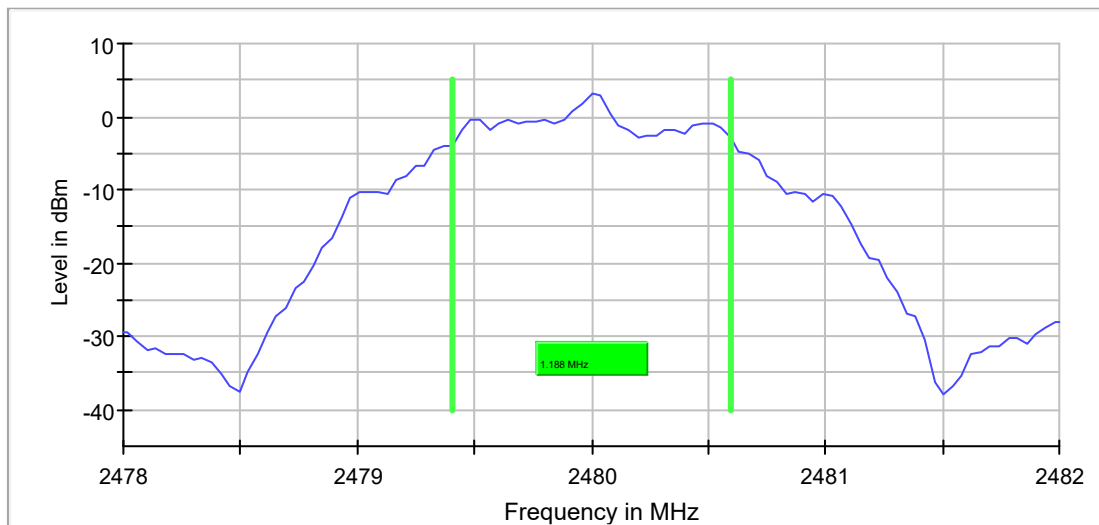
Minimum Emission Bandwidth 6 dB (2480 MHz; 20.000 dBm; 2 MHz)

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.188118	0.500000	---	2479.405941	2480.594059

(continuation of the "6 dB Bandwidth" table from column 6 ...)

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweptime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.49 dB	0.50 dB

Appendix A.3: Test Results of 99% Bandwidth

Test Result

TestMode	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Bluetooth LE_1Mbps	2402	1.044776	2401.492537	2400.000000	---	PASS
	2440	1.044776	2439.492537	2400.000000	---	PASS
	2480	1.044776	2479.492537	2400.000000	---	PASS
Bluetooth LE_2Mbps	2402	2.037267	2401.006211	2400.000000	---	PASS
	2440	2.037267	2439.006211	2400.000000	---	PASS
	2480	2.037267	2479.006211	2400.000000	---	PASS

Test Graphs

Bluetooth LE, 1Mbps

Occupied Channel Bandwidth (2402 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

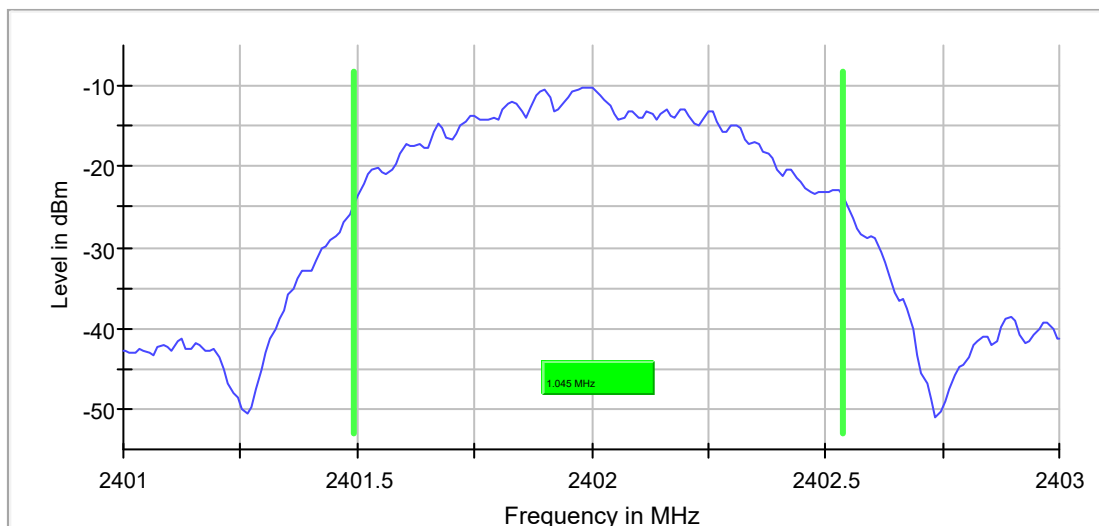
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	1.044776	---	---	2401.492537	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2402.537313	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.26 dB	0.50 dB

Occupied Channel Bandwidth (2440 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

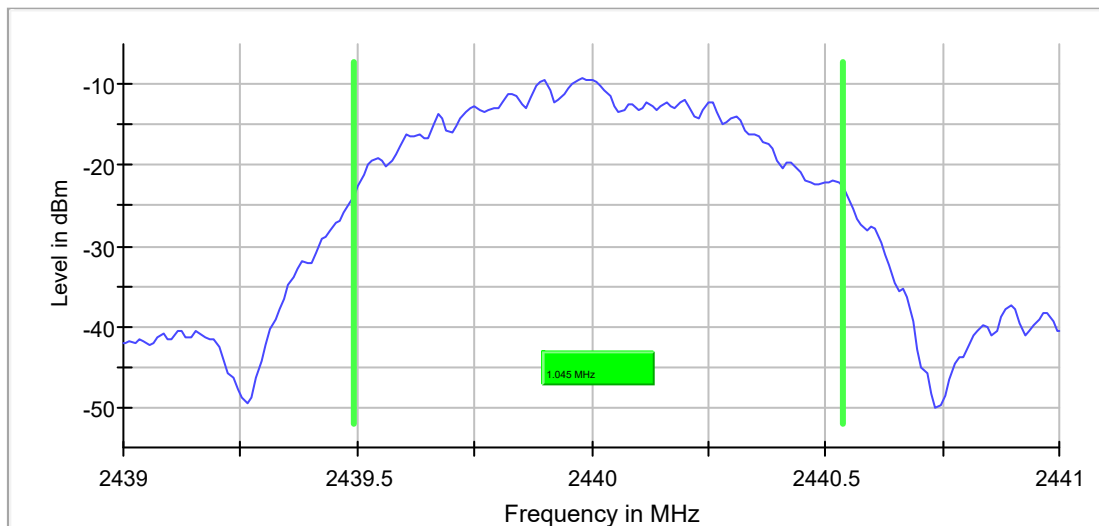
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2440.000000	1.044776	---	---	2439.492537	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2440.000000	2440.537313	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.50 dB

Occupied Channel Bandwidth (2480 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

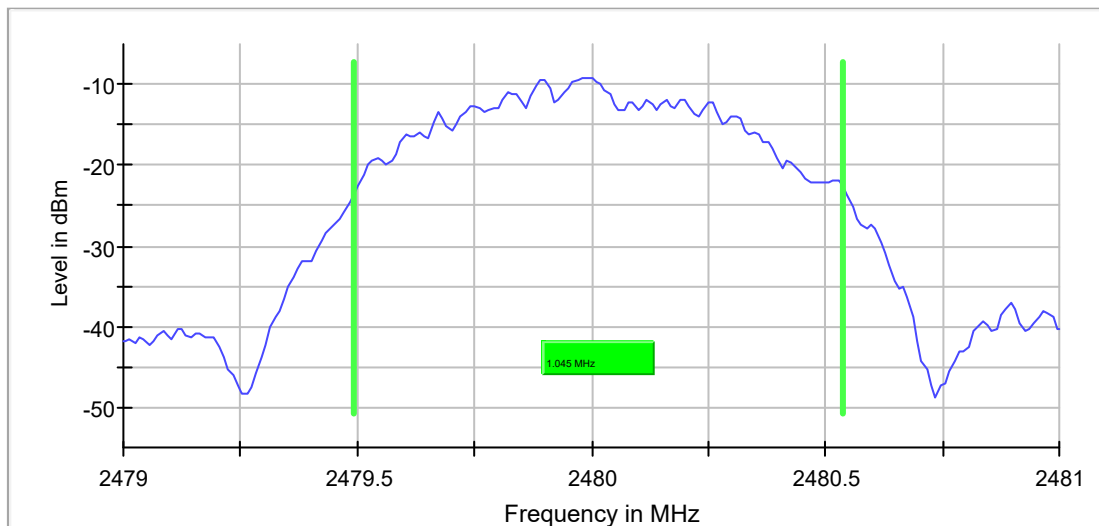
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	1.044776	---	---	2479.492537	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2480.537313	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.50 dB

Bluetooth LE, 2Mbps

Occupied Channel Bandwidth (2402 MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

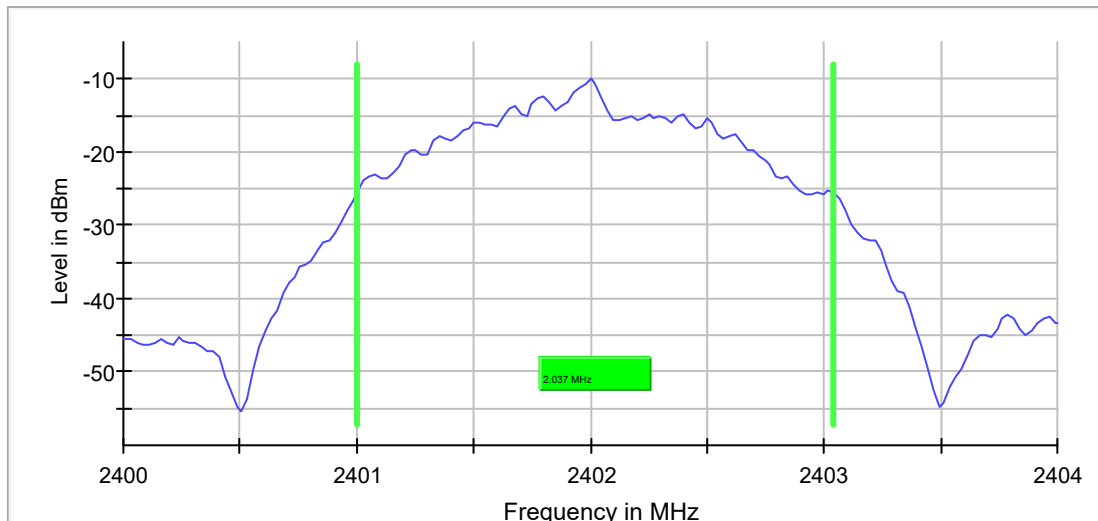
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	2.037267	---	---	2401.006211	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2403.043478	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
Sweptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.50 dB

Occupied Channel Bandwidth (2440 MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

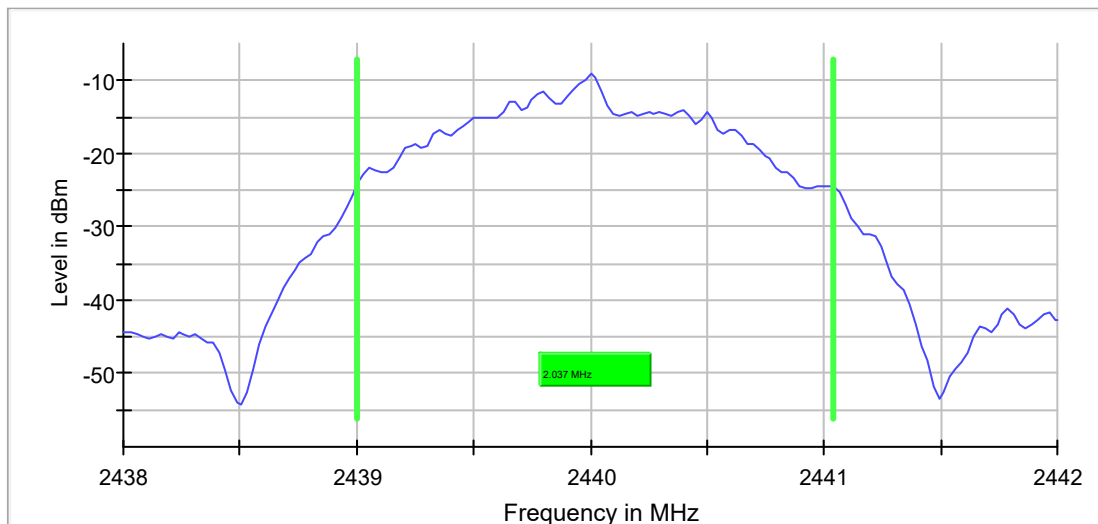
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2440.000000	2.037267	---	---	2439.006211	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2440.000000	2441.043478	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.50 dB

Occupied Channel Bandwidth (2480 MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

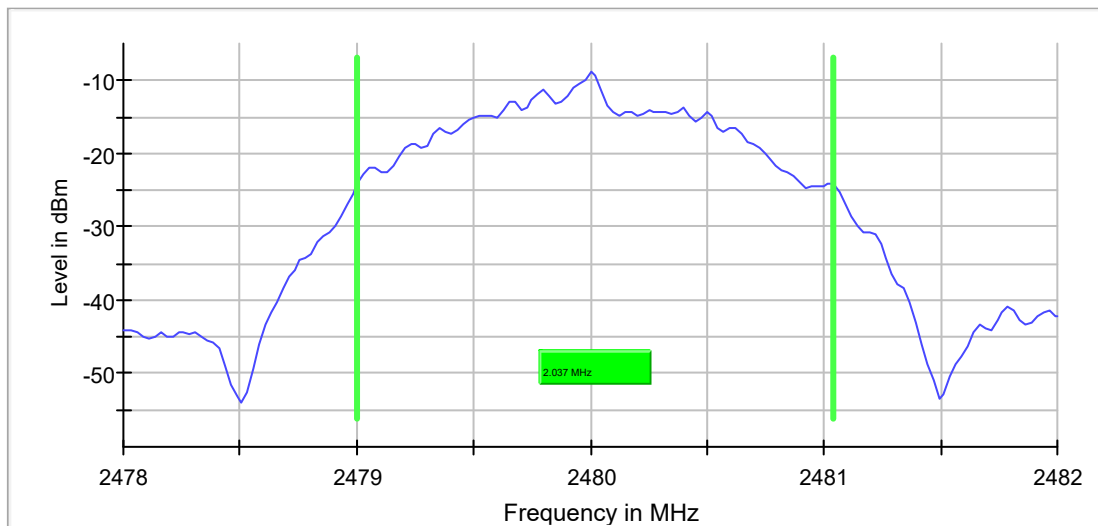
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	2.037267	---	---	2479.006211	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2481.043478	2483.500000	PASS

99 % Bandwidth

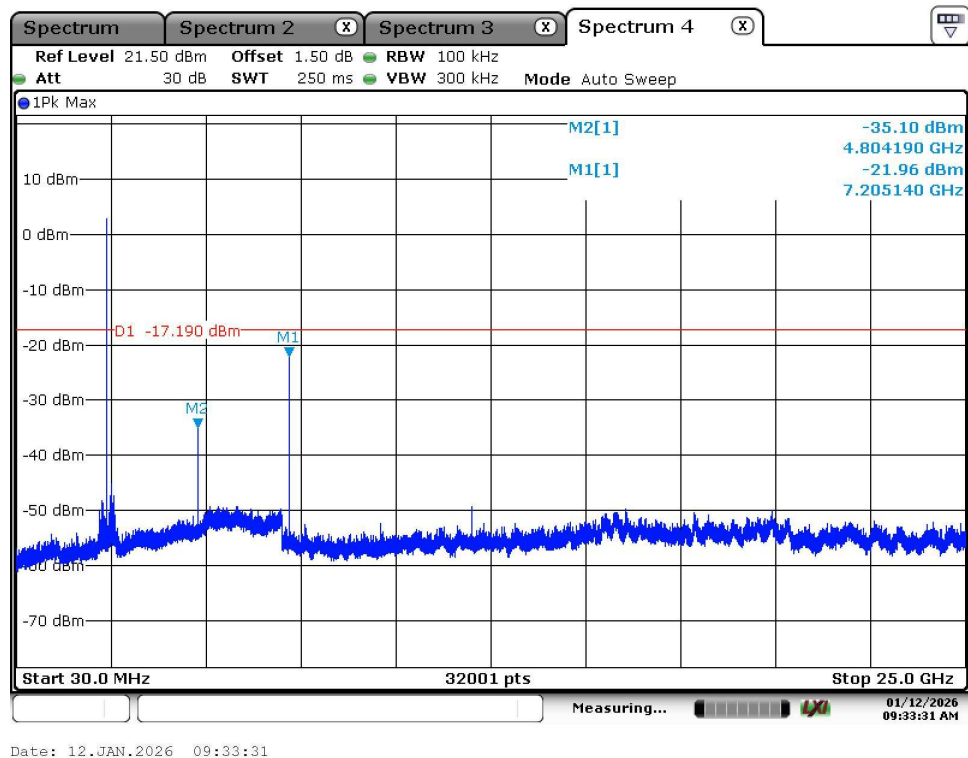
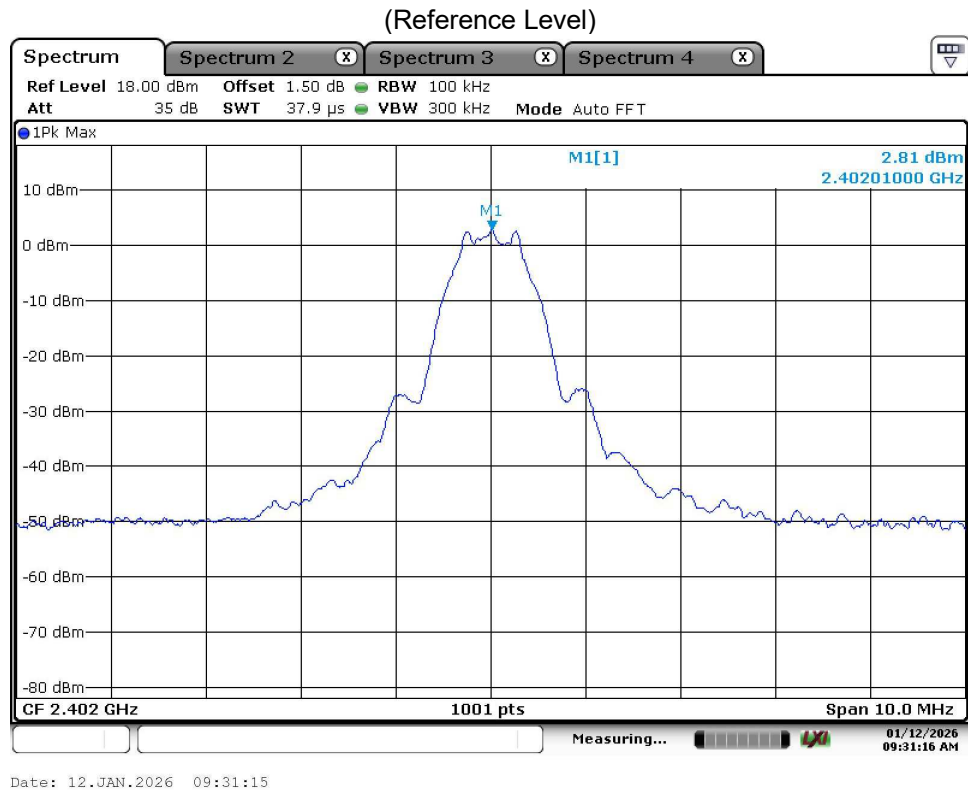


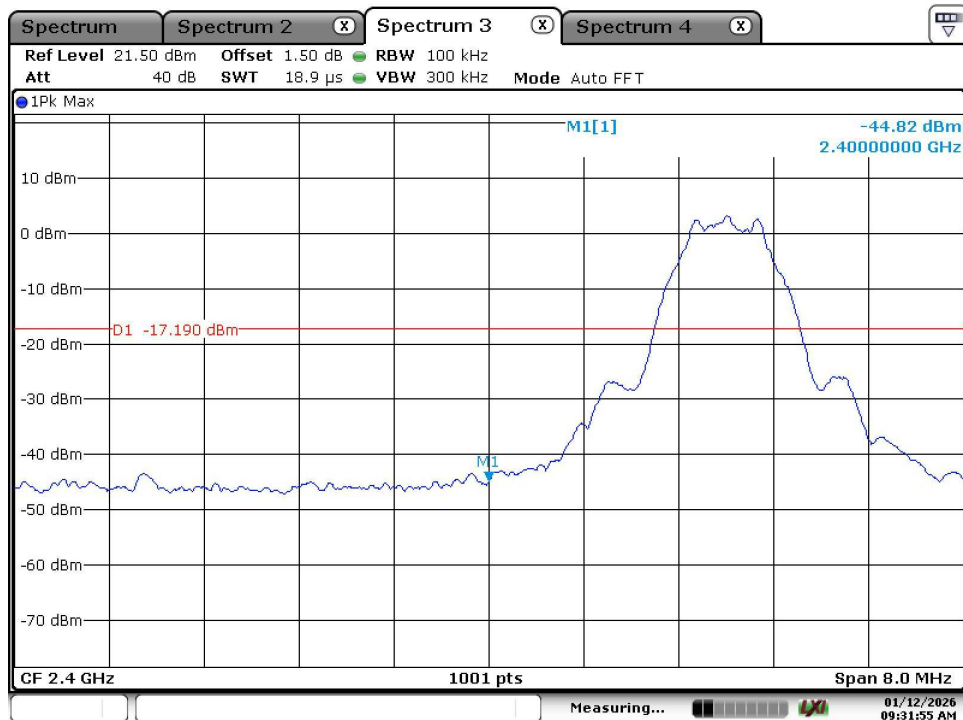
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
SweepTime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.21 dB	0.50 dB

Appendix A.4: Test Results of Conducted Spurious Emissions

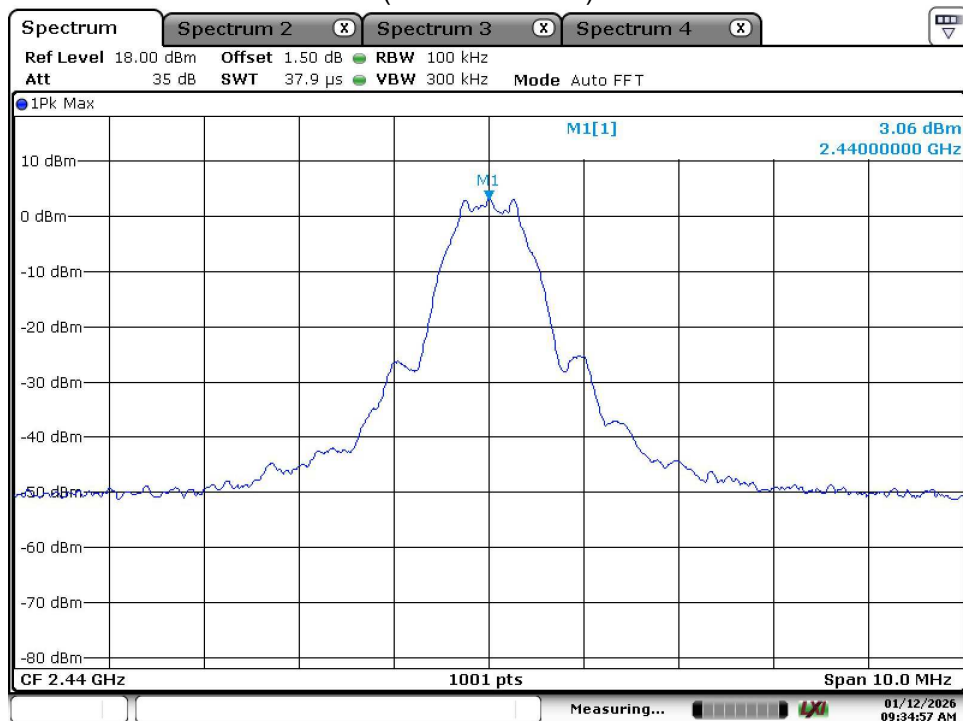
Bluetooth LE, 1Mbps





Date: 12.JAN.2026 09:31:55

(Reference Level)



Date: 12.JAN.2026 09:34:57