FCC Part 15.247

TEST REPORT

For

CC&C Technologies, Inc.

8F, No.150, Jian Yi Rd, Zhonghe District, New Taipei City, 235, Taiwan

FCC ID: PANBM3095

Report Type: Original Report	**Product Type:** Bluetooth v5.4 APTX LE Audio RX Module

Report Producer : Coco Lin

Report Number : RXZ260302006RF01

Report Date : 2026-06-17

Reviewed By: Andy Shih

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ260302006	RXZ260302006RF01	2026-06-17	Original Report	Coco Lin

TABLE OF CONTENTS

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	CC&C Technologies, Inc.
	8F, No.150, Jian Yi Rd, Zhonghe District, New Taipei City, 235, Taiwan
Brand(Trade) Name	CC&C
Product (Equipment)	Bluetooth v5.4 APTX LE Audio RX Module
Main Model Name	BM-3095
Series Model Name	N/A
Frequency Range	BLE(1M) / BLE(2M) : 2402 ~ 2480 MHz
Maximum Conducted Peak Output Power	BLE(1M) Mode : 6.48 dBm BLE(2M) Mode : 6.47 dBm
Modulation Technique	BLE(1M) / BLE(2M) : GFSK
Transmit Data Rate	BLE(1M) Mode : 1 Mbps BLE(2M) Mode : 2 Mbps
Power Operation (Voltage Range)	3.3 Vdc
Received Date	2025/04/08

*All measurement and test data in this report was gathered from production sample serial number: RXZ260302006-1 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *CC&C Technologies, Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
RF output power, conducted		+/- 0.57 dB
Power Spectral Density, conducted		+/- 0.60 dB
Occupied Bandwidth		+/- 0.09 %
Unwanted Emissions, conducted		+/- 1.09 dB
Emissions, radiated	9 kHz~30 MHz	+/- 3.20 dB
	30 MHz~1 GHz	+/- 3.30 dB
	1 GHz~18 GHz	+/- 5.14 dB
	18 GHz~40 GHz	+/- 4.75 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Environmental Conditions

Test Site	Test Date	Temperature (℃)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2026/4/17	25.8	52	Jing Chang
Radiation Spurious Emissions	2026/4/15~2026/6/17	21.9~22.9	60~65	Toney Chen
Duty Cycle	2026/4/16	25.3	53	Jet Lin
Conducted Spurious Emissions	2026/4/16	25.3	53	Jet Lin
Emission Bandwidth	2026/4/16	25.3	53	Jet Lin
Maximum Output Power	2026/4/16	25.3	53	Jet Lin
100 kHz Bandwidth of Frequency Band Edge	2026/4/16	25.3	53	Jet Lin
Power Spectral Density	2026/4/16	25.3	53	Jet Lin

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

☒70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

2 System Test Configuration

2.1 Description of Test Configuration

For BLE mode, there are totally 40 channels.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	--	--
2	2406	--	--
3	2408	37	2476
--	--	38	2478
19	2440	39	2480

For BLE Modes were tested with channel 0, 19 and 39.

2.2 EUT Exercise Software

The test software was used “BlueTest3 v3.3.18”

The system was configured for testing in engineering mode, which was provided by Applicant.

Test Frequency		Low	Middle	High
Power Level Setting	BLE 1M	default	default	default
	BLE 2M	default	default	default

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Full System (model: BM-3095) for all test item.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
Adapter	NEXGO	ADS-12CG-06 05010EPCU
Test Platform	CC&C	BA-80TR

2.6 External Cable List and Details

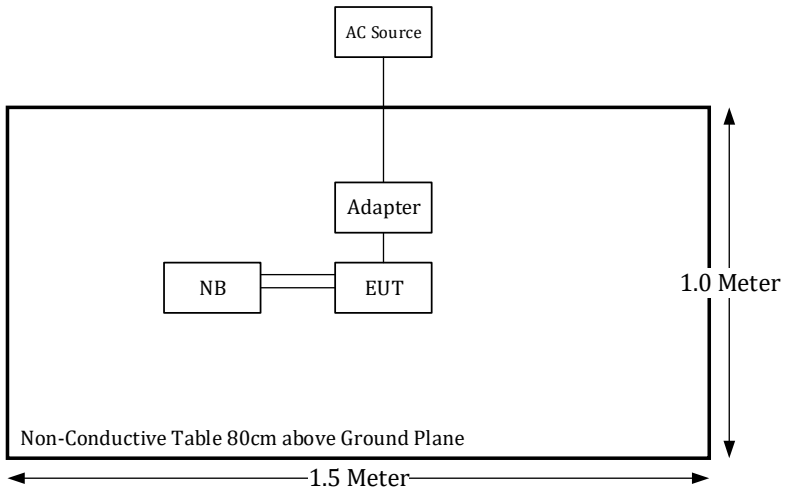
Description	Manufacturer	Model Number
3.5mm Cable	Dongguan Yingge Electronic Technology Co.Ltd.	A7
USB A to USB C Cable	Dongguan Yongchuangda Electronic Technology Co., Ltd.	YCD-22061006-01

2.7 Block Diagram of Test Setup

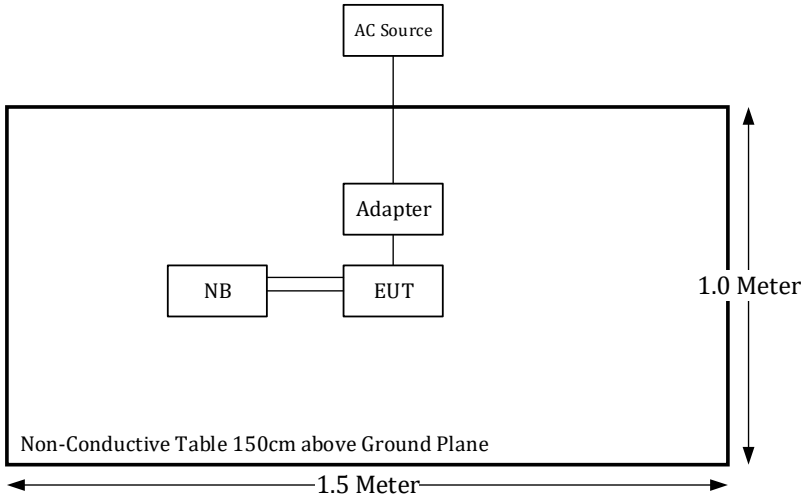
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

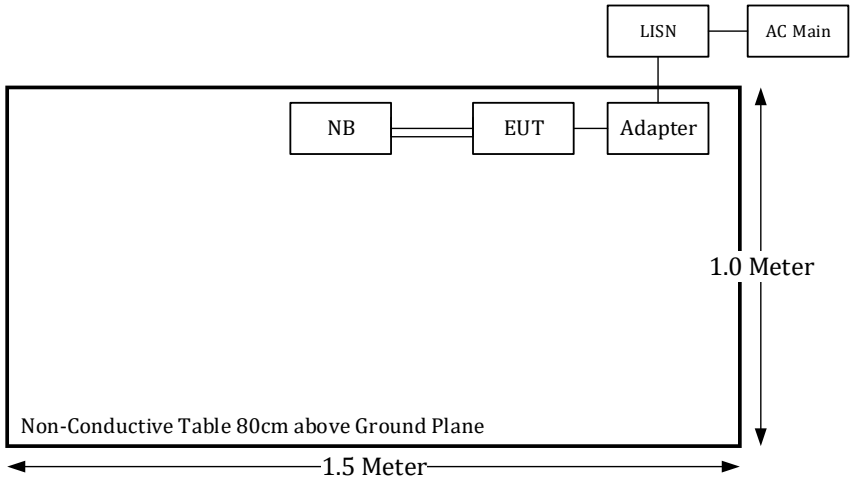
Below 1GHz:



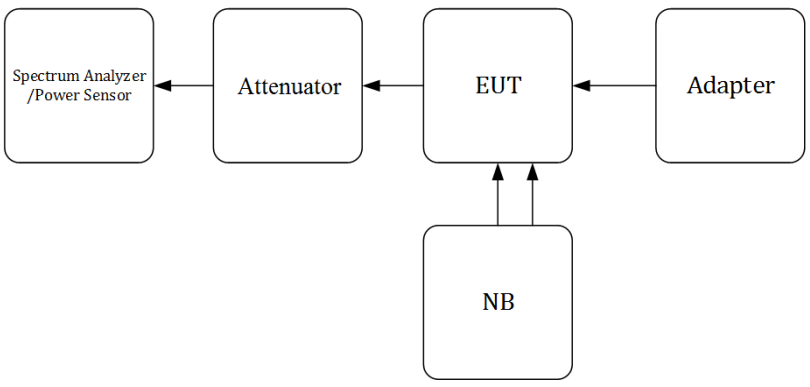
Above 1GHz:



Conduction:



Conducted:



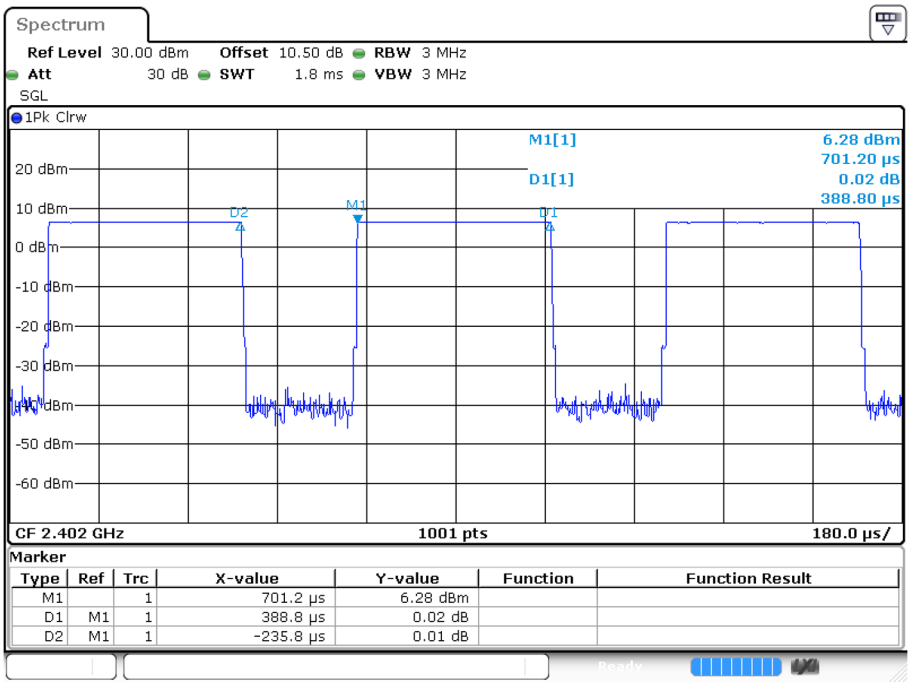
2.8 Duty Cycle

The duty cycle as below:

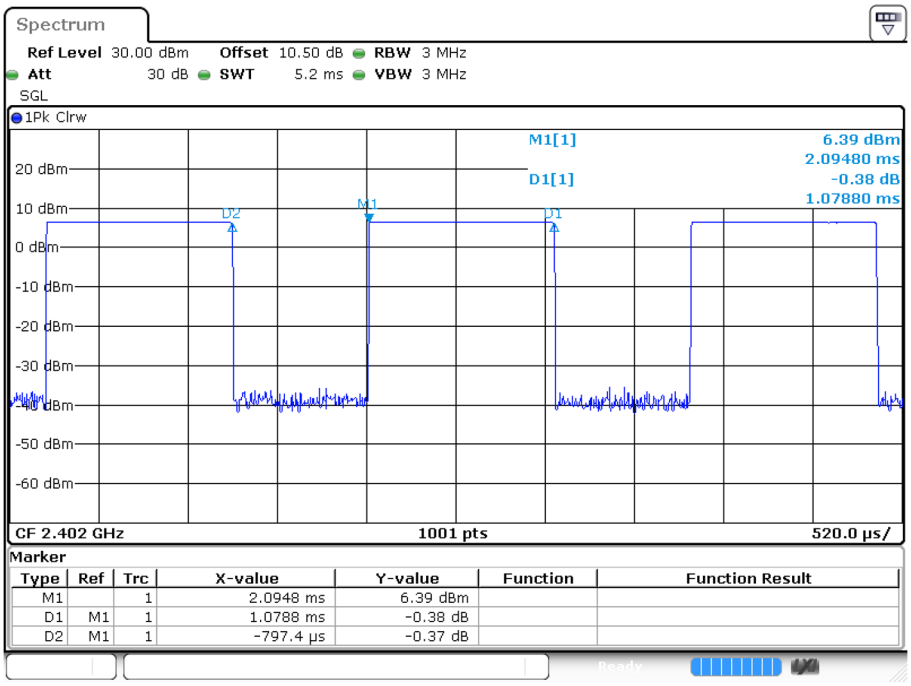
Radio Mode	Ton (ms)	Toff (ms)	Duty Cycle (%)	1/Ton (kHz)	1/T VBW setting (kHz)
BLE(1M)	0.389	0.236	62	2.58	3
BLE(2M)	1.079	0.797	57	0.93	1

Please refer to the following plots.

BLE(1M) Mode



BLE(2M) Mode



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:26:42

3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	100010	2025/8/29	2026/8/29
EMI Test Receiver	Rohde & Schwarz	ESW	100947	2025/5/28	2026/5/28
RF Cable	EMEC	EM-CB5D	1	2025/6/30	2026/6/30
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room - Below 1GHz (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2026/3/30	2027/3/30
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/15542_01	2026/1/15	2027/1/15
Preamplifier	Sonoma	310N	130602	2025/6/17	2026/6/17
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102415	2026/3/20	2027/3/20
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2025/12/19	2026/12/19
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2025/12/19	2026/12/19
Coaxial Cable	COMMATE	PEWC	8Dr	2025/12/19	2026/12/19
Cable	EMC	EMC105-SM-SM-10000	201003	2025/12/19	2026/12/19
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2025/12/19	2026/12/19
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Radiation 3M Room - Above 1GHz (966-A)					
Horn Antenna	A.H. system	SAS-571	1983	2025/7/2	2026/7/2
Horn Antenna	ETS-Lindgren	3116	62638	2025/9/4	2026/9/4
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300049	2025/12/19	2026/12/19
Preamplifier	BACL	BACL-1313-A1840	4011511	2026/2/12	2027/2/12
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2026/3/25	2027/3/25
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2025/12/19	2026/12/19
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2025/12/19	2026/12/19
Coaxial Cable	COMMATE	PEWC	8Dr	2025/12/19	2026/12/19
Cable	EMC	EMC105-SM-SM-10000	201003	2025/12/19	2026/12/19
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2025/12/19	2026/12/19
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-450CM	160309-1	2026/1/21	2027/1/21
Microflex Cable	ROSNOL	K1K50-UP0264-K1K50-80CM	160309-2	2026/1/21	2027/1/21
Band-stop filter	Woken	STI15-9831	STI15-9831-1	2025/10/17	2026/10/17
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2025/10/17	2026/10/17
Software	AUDIX	E3	18621a	N.C.R	N.C.R

Conducted Room					
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2025/6/4	2026/6/4
Cable	UTIFLEX	UFA210A	9435	2025/9/30	2026/9/30
Power Sensor	Boonton	RTP5006	11037	2025/5/16	2026/5/16
Attenuator	MCL	BW-S10W5+	1419	2026/3/25	2027/3/25

***Statement of Traceability:** BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

According to § 15.203,

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

5.2 Antenna List and Details

Type	Antenna Gain
Chip	0.5 dBi

Antenna was permanently attached to the unit.

Result: Compliance

6 FCC §15.207(a) – AC Line Conducted Emissions

6.1 Applicable Standard

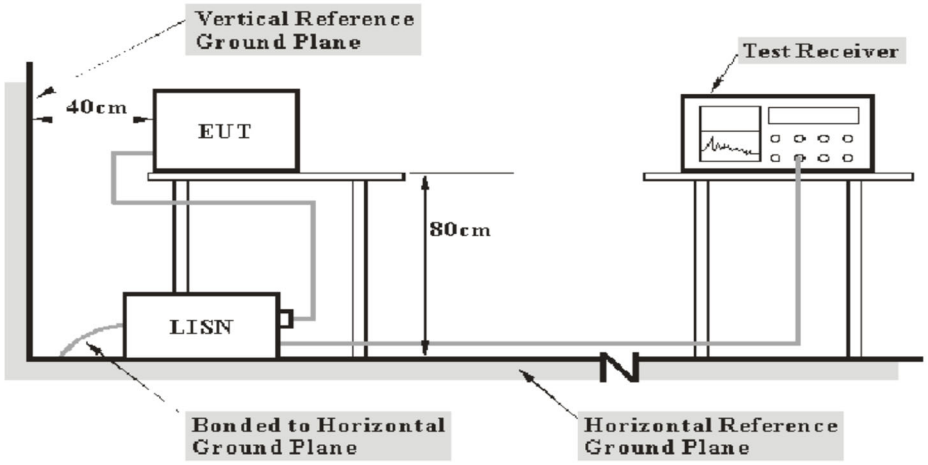
According to §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 Note 1	56 to 46 Note 1
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

6.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations

Frequency Range	IF B/W
150kHz – 30MHz	9kHz

6.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

6.5 Corrected Factor & Over Limit Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss.

The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

Over Limit = Result – Limit Line

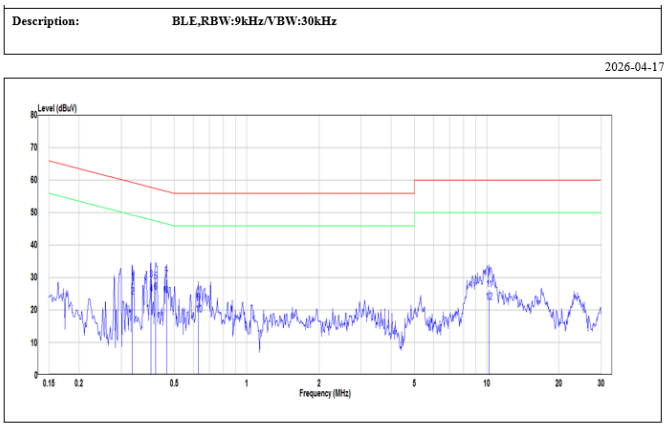
6.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

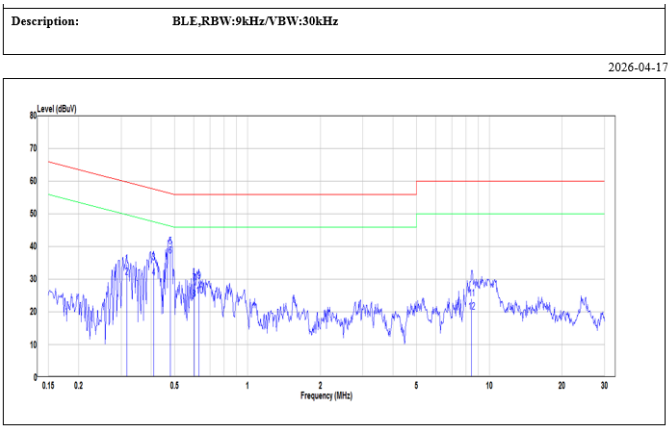
Worst case is BLE(1M) mode, low channel

Line



No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.334	18.98	9.63	28.61	59.35	-30.74	QP	Line
2	0.334	14.40	9.63	24.03	49.35	-25.32	Average	Line
3	0.400	19.70	9.63	29.33	57.86	-28.53	QP	Line
4	0.400	15.25	9.63	24.88	47.86	-22.98	Average	Line
5	0.417	19.24	9.63	28.87	57.51	-28.64	QP	Line
6	0.417	15.79	9.63	25.42	47.51	-22.09	Average	Line
7	0.464	19.72	9.63	29.35	56.63	-27.28	QP	Line
8	0.464	14.78	9.63	24.41	46.63	-22.22	Average	Line
9	0.630	12.58	9.64	22.22	56.00	-33.78	QP	Line
10	0.630	8.85	9.64	18.49	46.00	-27.51	Average	Line
11	10.233	16.49	9.84	26.33	60.00	-33.67	QP	Line
12	10.233	12.60	9.84	22.44	50.00	-27.56	Average	Line

Neutral



No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.317	25.04	9.62	34.66	59.80	-25.14	QP	Neutral
2	0.317	20.97	9.62	30.59	49.80	-19.21	Average	Neutral
3	0.408	25.50	9.62	35.12	57.68	-22.56	QP	Neutral
4	0.408	20.87	9.62	30.49	47.68	-17.19	Average	Neutral
5	0.479	30.37	9.62	39.99	56.36	-16.37	QP	Neutral
6	0.479	27.57	9.62	37.19	46.36	-9.17	Average	Neutral
7	0.601	19.07	9.63	28.70	56.00	-27.30	QP	Neutral
8	0.601	14.16	9.63	23.79	46.00	-22.21	Average	Neutral
9	0.630	19.76	9.63	29.39	56.00	-26.61	QP	Neutral
10	0.630	15.18	9.63	24.81	46.00	-21.19	Average	Neutral
11	8.456	14.36	9.81	24.17	60.00	-35.83	QP	Neutral
12	8.456	10.20	9.81	20.01	50.00	-29.99	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss

7 FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions

7.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show 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	608 – 614	4. 5 – 5. 15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5. 35 – 5. 46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 –167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3 3458 – 3 358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

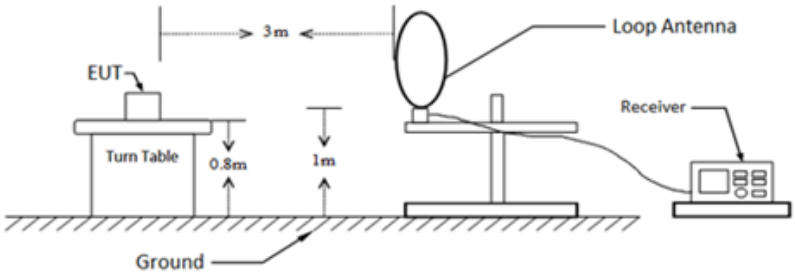
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

According to ANSI C63.10-2020, section 5.3.3
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

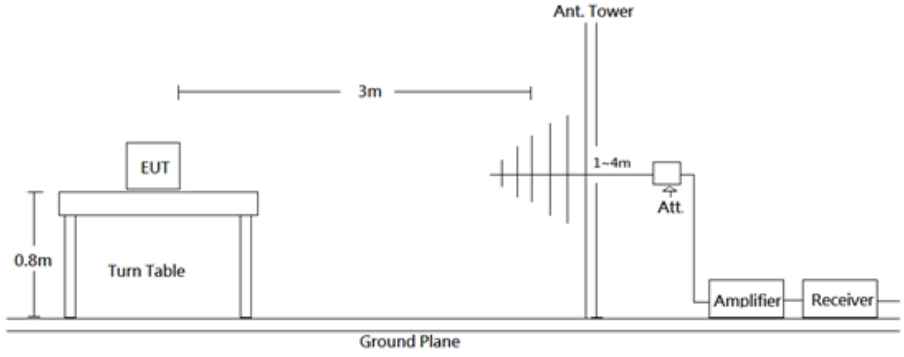
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the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

7.2 EUT Setup

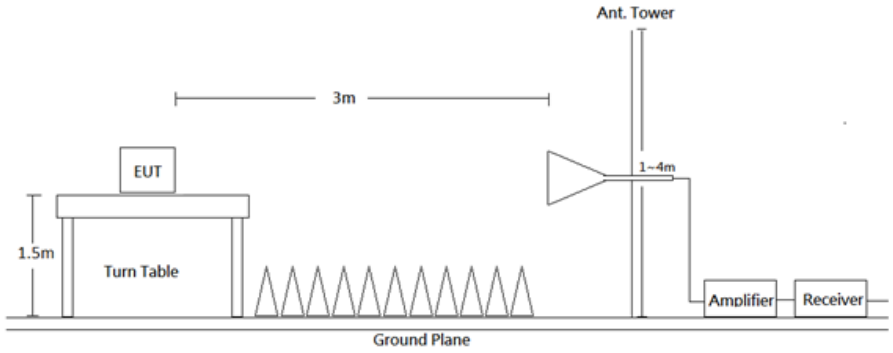
9kHz-30MHz:



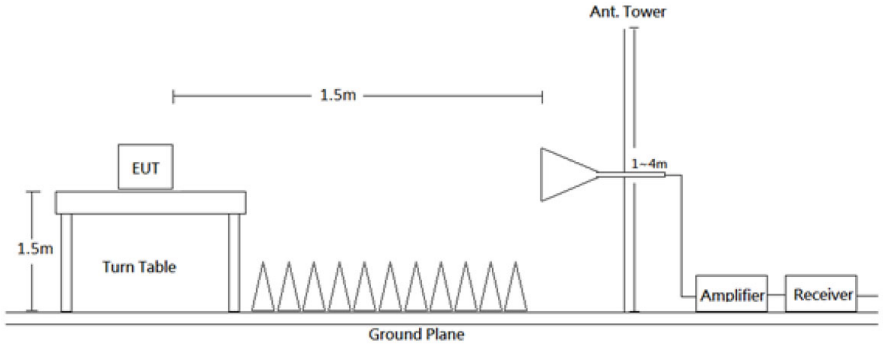
30MHz-1GHz:



1-18 GHz:



18-26.5 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC Part 15.209 and FCC 15.247 Limits.

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 26.5 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	Video B/W	IF B/W	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	300 Hz	1 kHz	200 Hz	/	QP/AV	QP/AV
150 kHz - 30 MHz	10 kHz	30 kHz	9 kHz	/	QP/AV	QP/AV
30-1000 MHz	100 kHz	300 kHz	/	/	PK	PK
	/	/	120 kHz	/	QP	QP
Above 1 GHz	Pre-scan :					
	1 MHz	3 MHz	/	/	PK	PK
	1 MHz	1 kHz	/	>98%	Ave	PK
	1 MHz	≥ 1/Ton, not less than 1 kHz	/	<98%	Ave	PK
	Final measurement for emission identified during pre-scan :					
	1 MHz	3 MHz	/	/	PK	PK
	1 MHz	10 Hz	/	>98%	Ave	PK
	1 MHz	≥ 1/Ton	/	<98%	Ave	PK

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement

7.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in Quasi-peak and average detector mode from 9 kHz to 30 MHz, Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

For Conducted Spurious Emissions:

According to ANSI C63.10-2020, section 11.11

a) Set the frequency range to be measured.

b) Set the RBW = 100 kHz.

c) Set the VBW ≥ [3 × RBW].

d) Detector = peak.

e) Sweep time = No faster than coupled (auto) time.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

7.5 Corrected Factor & Margin Calculation

The Correct Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Level – Limit

7.6 Test Results

Test Mode: Transmitting

(EUT pre-scan with three orthogonal axis Z axis(Lay flat), X axis(On its side), Y axis(Upright) and worse case as Z axis.)

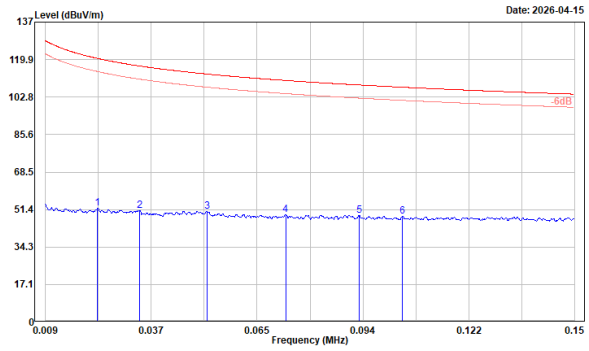
9kHz-30MHz:

(Worst case is BLE(1M) mode, low channel)

(Antenna pre-scan using three directional polarities, parallel, perpendicular, and ground parallel, worst case as parallel.)

9kHz-150kHz

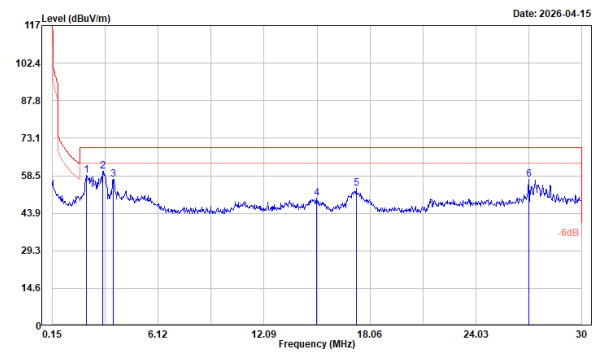
Description: RBW:300Hz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
0.023	37.96	13.90	51.86	120.39	-68.53	100	117	Average
0.034	38.22	12.75	50.97	116.95	-65.98	100	294	Average
0.052	38.09	12.55	50.64	113.28	-62.64	100	323	Average
0.073	38.04	10.98	49.02	110.34	-61.32	100	71	Average
0.093	37.79	11.01	48.80	108.27	-59.47	100	185	QP
0.104	37.32	11.04	48.36	107.25	-58.89	100	35	QP

150kHz-30MHz

Description: RBW:10kHz/VBW:30kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2.090	47.67	11.11	58.78	69.54	-10.76	100	267	QP
2.986	49.43	10.93	60.36	69.54	-9.18	100	15	QP
3.583	46.17	10.88	57.05	69.54	-12.49	100	141	QP
15.045	38.26	11.67	49.93	69.54	-19.61	100	86	QP
17.284	42.02	11.71	53.73	69.54	-15.81	100	103	QP
27.015	45.22	11.98	57.20	69.54	-12.34	100	64	QP

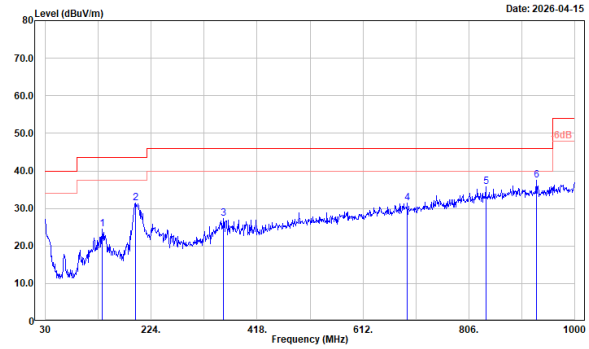
30MHz-1GHz:

Worst case is BLE(1M) mode

Low channel

Horizontal

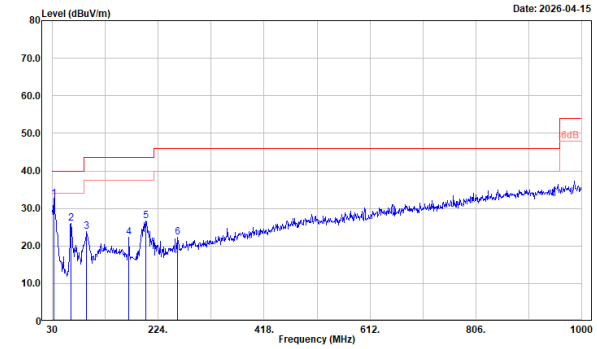
Description: BLE-LOW,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
134.760	34.82	-10.25	24.57	43.50	-18.93	100	300	QP
195.870	42.47	-11.11	31.36	43.50	-12.14	100	51	QP
356.890	34.62	-7.26	27.36	46.00	-18.64	100	330	QP
693.480	30.86	0.53	31.39	46.00	-14.61	100	0	QP
837.040	32.09	3.60	35.69	46.00	-10.31	100	350	QP
930.160	32.37	5.03	37.40	46.00	-8.60	100	254	QP

Vertical

Description: BLE-LOW,RBW:100kHz/VBW:300kHz

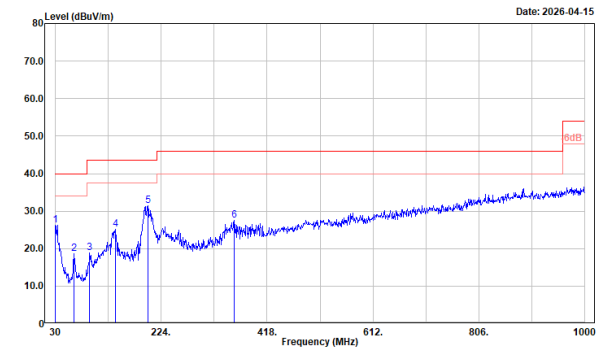


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
32.910	38.51	-6.03	32.48	40.00	-7.52	100	298	QP
63.950	43.09	-17.08	26.01	40.00	-13.99	100	165	QP
93.050	39.83	-16.09	23.74	43.50	-19.76	100	277	QP
170.650	34.29	-11.95	22.34	43.50	-21.16	100	108	QP
201.690	37.82	-11.06	26.76	43.50	-16.74	100	58	QP
259.890	33.08	-10.83	22.25	46.00	-23.75	100	39	QP

Middle channel

Horizontal

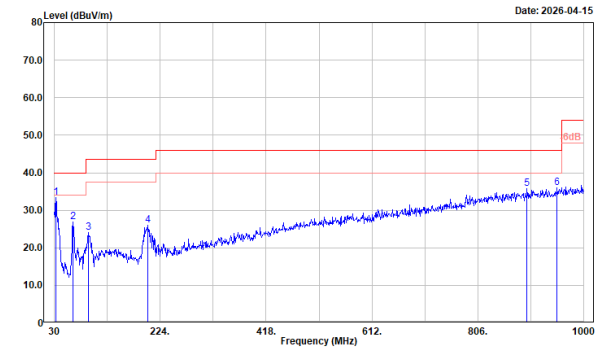
Description: BLE-Middle,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.90	-3.71	26.19	40.00	-13.81	100	183	QP
64.920	35.74	-17.10	18.64	40.00	-21.36	100	246	QP
93.050	34.95	-16.09	18.86	43.50	-24.64	100	40	QP
140.580	35.68	-10.54	25.14	43.50	-18.36	100	281	QP
199.750	41.84	-10.40	31.44	43.50	-12.06	100	44	QP
357.860	34.72	-7.23	27.49	46.00	-18.51	100	326	QP

Vertical

Description: BLE-Middle,RBW:100kHz/VBW:300kHz

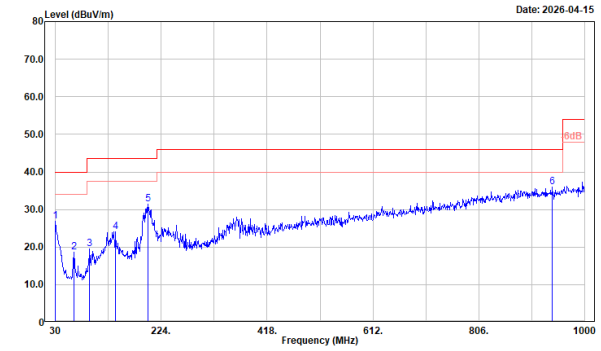


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
32.910	39.35	-6.03	33.32	40.00	-6.68	100	273	QP
63.950	43.98	-17.08	26.90	40.00	-13.10	100	140	QP
92.080	40.53	-16.50	24.03	43.50	-19.47	100	63	QP
201.690	37.17	-11.06	26.11	43.50	-17.39	100	81	QP
896.210	30.92	4.83	35.75	46.00	-10.25	100	154	QP
951.500	30.60	5.38	35.98	46.00	-10.02	100	14	QP

High channel

Horizontal

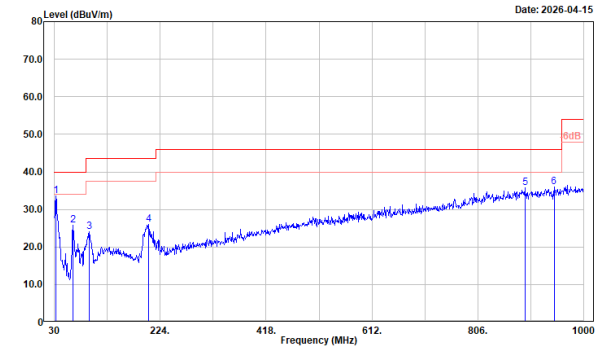
Description: BLE-High,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.50	-3.71	26.79	40.00	-13.21	100	3	QP
64.920	35.69	-17.10	18.59	40.00	-21.41	100	228	QP
93.050	35.51	-16.09	19.42	43.50	-24.08	100	25	QP
139.610	34.53	-10.50	24.03	43.50	-19.47	100	294	QP
199.750	41.82	-10.40	31.42	43.50	-12.08	100	33	QP
940.830	30.89	5.09	35.98	46.00	-10.02	100	329	QP

Vertical

Description: BLE-High,RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
32.910	39.72	-6.03	33.69	40.00	-6.31	100	283	QP
64.920	42.96	-17.10	25.86	40.00	-14.14	100	191	QP
94.020	40.04	-15.97	24.07	43.50	-19.43	100	61	QP
202.660	37.39	-11.43	25.96	43.50	-17.54	100	253	QP
892.330	30.88	4.85	35.73	46.00	-10.27	100	130	QP
945.680	30.70	5.22	35.92	46.00	-10.08	100	35	QP

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

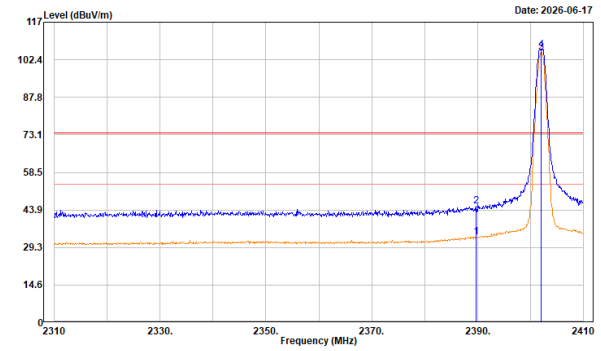
Band-Edge:

BLE(1M) Mode

Low channel

Horizontal

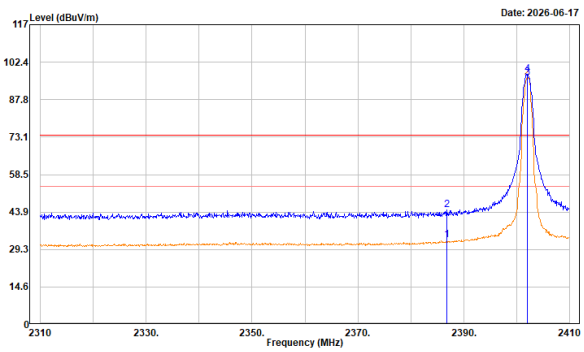
Description: BLE-1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.800	44.90	-11.49	33.41	54.00	-20.59	384	313	Average
2389.800	56.73	-11.49	45.24	74.00	-28.76	384	313	Peak
2402.000	116.66	-11.48	105.18			384	313	Average
2402.000	117.77	-11.48	106.29			384	313	Peak

Vertical

Description: BLE-1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz

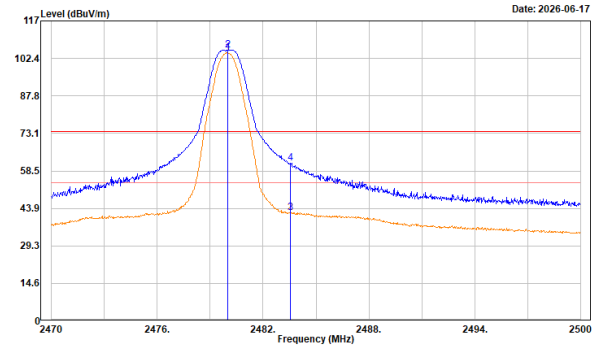


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2386.800	44.40	-11.56	32.84	54.00	-21.16	311	188	Average
2386.800	56.15	-11.56	44.59	74.00	-29.41	311	188	Peak
2402.000	108.02	-11.48	96.54			311	188	Average
2402.000	109.12	-11.48	97.64			311	188	Peak

High channel

Horizontal

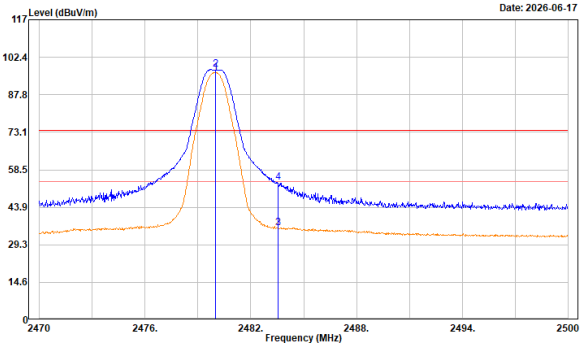
Description: BLE-1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	115.49	-10.97	104.52			288	302	Average
2480.000	116.54	-10.97	105.57			288	302	Peak
2483.530	53.25	-10.93	42.32	54.00	-11.68	288	302	Average
2483.530	72.57	-10.93	61.64	74.00	-12.36	288	302	Peak

Vertical

Description: BLE-1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



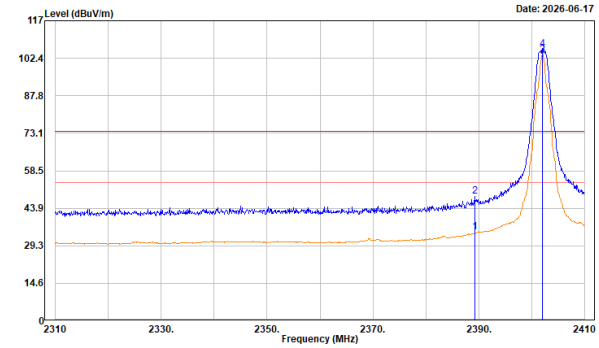
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	107.45	-10.97	96.48			294	169	Average
2480.000	108.51	-10.97	97.54			294	169	Peak
2483.530	46.91	-10.93	35.98	54.00	-18.02	294	169	Average
2483.530	64.62	-10.93	53.69	74.00	-20.31	294	169	Peak

BLE(2M) Mode

Low channel

Horizontal

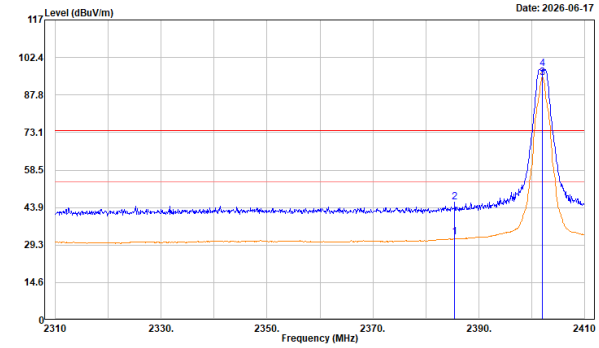
Description: BLE-2M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.200	46.19	-11.51	34.68	54.00	-19.32	316	296	Average
2389.200	59.91	-11.51	48.40	74.00	-25.60	316	296	Peak
2402.000	115.20	-11.48	103.72			316	296	Average
2402.000	117.41	-11.48	105.93			316	296	Peak

Vertical

Description: BLE-2M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz

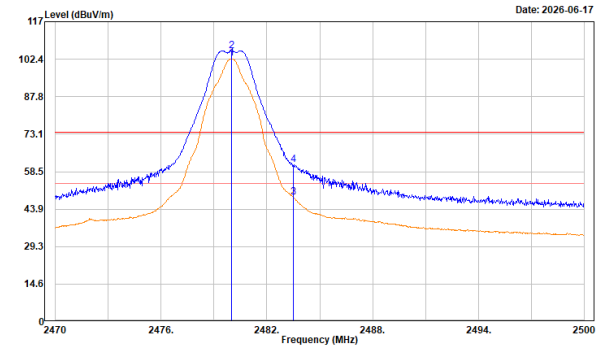


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2385.500	44.00	-11.59	32.41	54.00	-21.59	297	186	Average
2385.500	57.51	-11.59	45.92	74.00	-28.08	297	186	Peak
2402.000	106.10	-11.48	94.62			297	186	Average
2402.000	109.30	-11.48	97.82			297	186	Peak

High channel

Horizontal

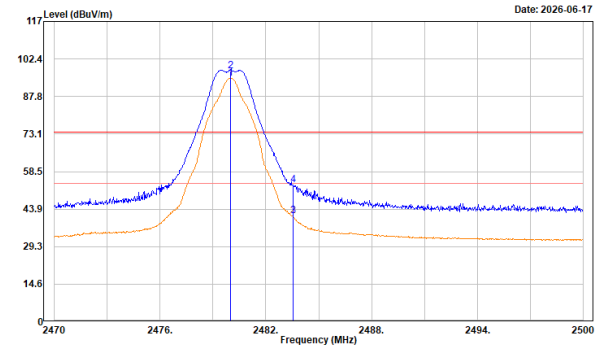
Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	113.55	-10.97	102.58			295	300	Average
2480.000	116.58	-10.97	105.61			295	300	Peak
2483.500	59.46	-10.94	48.52	54.00	-5.48	295	300	Average
2483.500	72.12	-10.94	61.18	74.00	-12.82	295	300	Peak

Vertical

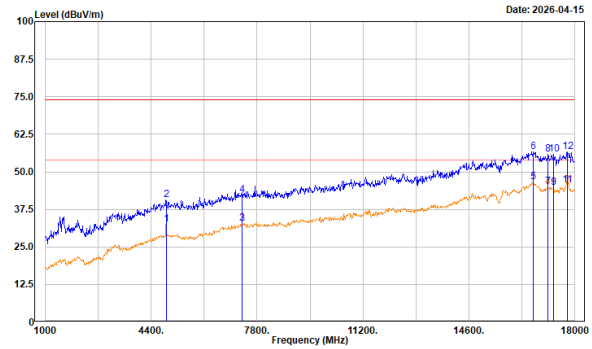
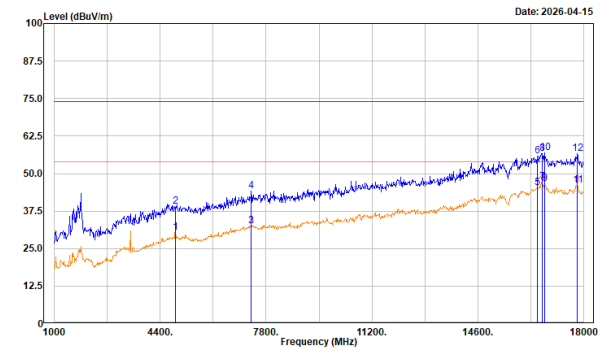
Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	105.68	-10.97	94.71			384	174	Average
2480.000	108.73	-10.97	97.76			384	174	Peak
2483.530	52.00	-10.93	41.07	54.00	-12.93	384	174	Average
2483.530	64.28	-10.93	53.35	74.00	-20.65	384	174	Peak

1GHz-18GHz:

(Worst case is BLE(1M) mode, middle channel)

Horizontal	Vertical
Description: BLE-1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz	Description: BLE-1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz
	

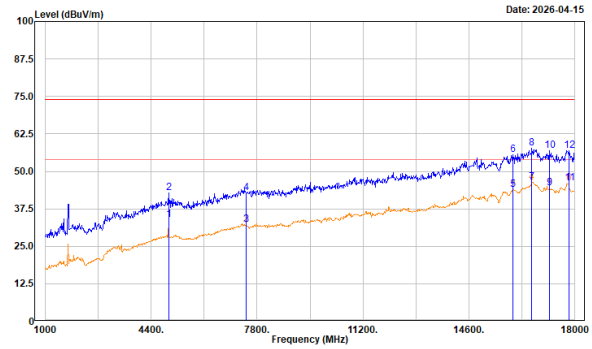
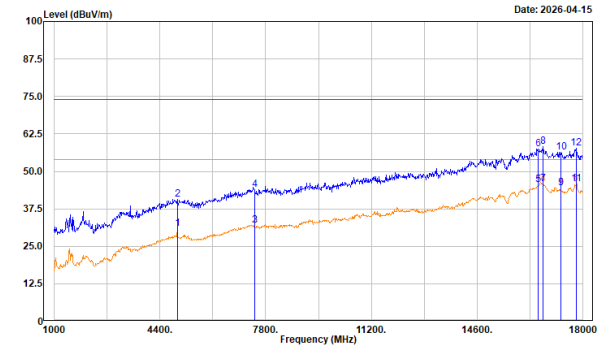
Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	37.30	-4.76	32.54	54.00	-21.46	318	219	Average
4880.000	45.43	-4.76	40.67	74.00	-33.33	318	219	Peak
7320.000	32.95	-0.25	32.70	54.00	-21.30	152	181	Average
7320.000	42.40	-0.25	42.15	74.00	-31.85	152	181	Peak
16674.000	32.79	13.79	46.58	54.00	-7.42	150	13	Average
16674.000	42.92	13.79	56.71	74.00	-17.29	150	13	Peak
17150.000	31.46	13.54	45.00	54.00	-9.00	150	61	Average
17150.000	42.24	13.54	55.78	74.00	-18.22	150	61	Peak
17320.000	31.56	13.23	44.79	54.00	-9.21	150	99	Average
17320.000	42.69	13.23	55.92	74.00	-18.08	150	99	Peak
17762.000	32.71	12.89	45.60	54.00	-8.40	150	131	Average
17762.000	43.73	12.89	56.62	74.00	-17.38	150	131	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	35.05	-4.76	30.29	54.00	-23.71	101	206	Average
4880.000	43.82	-4.76	39.06	74.00	-34.94	101	206	Peak
7320.000	32.76	-0.25	32.51	54.00	-21.49	123	124	Average
7320.000	44.41	-0.25	44.16	74.00	-29.84	123	124	Peak
16504.000	32.03	13.24	45.27	54.00	-8.73	150	16	Average
16504.000	42.47	13.24	55.71	74.00	-18.29	150	16	Peak
16674.000	33.42	13.79	47.21	54.00	-6.79	150	156	Average
16674.000	42.97	13.79	56.76	74.00	-17.24	150	156	Peak
16742.000	32.80	13.79	46.59	54.00	-7.41	150	315	Average
16742.000	43.24	13.79	57.03	74.00	-16.97	150	315	Peak
17796.000	33.16	12.83	45.99	54.00	-8.01	150	215	Average
17796.000	43.84	12.83	56.67	74.00	-17.33	150	215	Peak

(Worst case is BLE(2M) mode, high channel)

Horizontal	Vertical
Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz	Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz
	

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	38.78	-4.78	34.00	54.00	-20.00	116	243	Average
4960.000	47.52	-4.78	42.74	74.00	-31.26	116	243	Peak
7440.000	32.43	-0.27	32.16	54.00	-21.84	156	165	Average
7440.000	43.20	-0.27	42.93	74.00	-31.07	156	165	Peak
16028.000	32.75	11.19	43.94	54.00	-10.06	150	331	Average
16028.000	44.49	11.19	55.68	74.00	-18.32	150	331	Peak
16623.000	32.67	13.69	46.36	54.00	-7.64	150	123	Average
16623.000	44.05	13.69	57.74	74.00	-16.26	150	123	Peak
17184.000	30.93	13.38	44.31	54.00	-9.69	150	61	Average
17184.000	43.46	13.38	56.84	74.00	-17.16	150	61	Peak
17830.000	33.37	12.62	45.99	54.00	-8.01	150	94	Average
17830.000	44.41	12.62	57.03	74.00	-16.97	150	94	Peak

Vertical

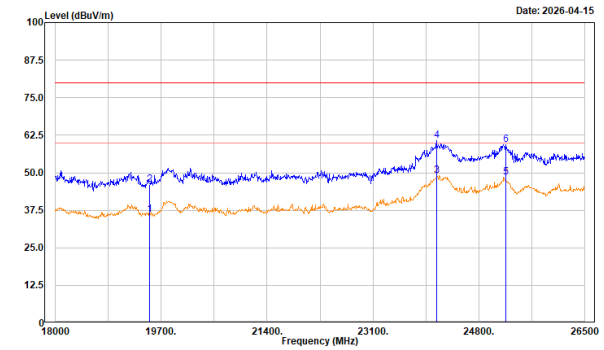
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	35.70	-4.78	30.92	54.00	-23.08	344	174	Average
4960.000	45.55	-4.78	40.77	74.00	-33.23	344	174	Peak
7440.000	32.21	-0.27	31.94	54.00	-22.06	112	156	Average
7440.000	44.16	-0.27	43.89	74.00	-30.11	112	156	Peak
16555.000	31.87	13.54	45.41	54.00	-8.59	150	213	Average
16555.000	43.92	13.54	57.46	74.00	-16.54	150	213	Peak
16725.000	31.93	13.81	45.74	54.00	-8.26	150	315	Average
16725.000	44.42	13.81	58.23	74.00	-15.77	150	315	Peak
17303.000	31.18	13.32	44.50	54.00	-9.50	150	34	Average
17303.000	43.12	13.32	56.44	74.00	-17.56	150	34	Peak
17779.000	32.98	12.86	45.84	54.00	-8.16	150	15	Average
17779.000	44.76	12.86	57.62	74.00	-16.38	150	15	Peak

18GHz-26.5GHz:

(Worst case is BLE(1M) mode, middle channel)

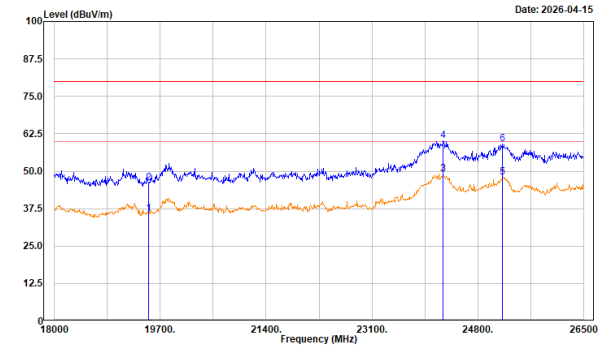
Horizontal	Vertical

Description: BLE-1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19520.000	39.14	-3.11	36.03	60.00	-23.97	150	95	Average
19520.000	49.12	-3.11	46.01	80.00	-33.99	150	95	Peak
24120.000	36.72	12.34	49.06	60.00	-10.94	150	276	Average
24120.000	48.38	12.34	60.72	80.00	-19.28	150	276	Peak
25233.500	38.34	10.24	48.58	60.00	-11.42	150	183	Average
25233.500	49.23	10.24	59.47	80.00	-20.53	150	183	Peak

Description: BLE-1M-TX-2440,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19520.000	38.92	-3.11	35.81	60.00	-24.19	150	57	Average
19520.000	49.14	-3.11	46.03	80.00	-33.97	150	57	Peak
24247.500	37.85	11.11	48.96	60.00	-11.04	150	118	Average
24247.500	49.10	11.11	60.21	80.00	-19.79	150	118	Peak
25199.500	37.51	10.50	48.01	60.00	-11.99	150	216	Average
25199.500	48.52	10.50	59.02	80.00	-20.98	150	216	Peak

Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

For 18-26.5GHz Convert the test distance limit of 3 meters to a limit of 1.5 meter:

Conversion factor = 20 log (3m/1.5m) = 6 dB,

Average Limit = 54+6 = 60 dBuV/m@1.5m , Peak Limit = 60+20 = 80 dBuV/m@1.5m

Above 1GHz

BLE 1M Mode:

Low channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	33.38	-4.98	28.40	54.00	-25.60	116	242	Average
4804.000	43.81	-4.98	38.83	74.00	-35.17	116	242	Peak
7206.000	32.83	-0.78	32.05	54.00	-21.95	173	132	Average
7206.000	43.36	-0.78	42.58	74.00	-31.42	173	132	Peak
16011.000	33.26	11.03	44.29	54.00	-9.71	150	62	Average
16011.000	44.74	11.03	55.77	74.00	-18.23	150	62	Peak
16385.000	33.39	12.19	45.58	54.00	-8.42	150	10	Average
16385.000	44.31	12.19	56.50	74.00	-17.50	150	10	Peak
16725.000	32.69	13.81	46.50	54.00	-7.50	150	308	Average
16725.000	44.84	13.81	58.65	74.00	-15.35	150	308	Peak
17779.000	33.55	12.86	46.41	54.00	-7.59	150	143	Average
17779.000	44.60	12.86	57.46	74.00	-16.54	150	143	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	34.14	-4.98	29.16	54.00	-24.84	142	65	Average
4804.000	43.47	-4.98	38.49	74.00	-35.51	142	65	Peak
7206.000	33.11	-0.78	32.33	54.00	-21.67	153	134	Average
7206.000	42.68	-0.78	41.90	74.00	-32.10	153	134	Peak
16045.000	32.66	11.36	44.02	54.00	-9.98	150	228	Average
16045.000	43.91	11.36	55.27	74.00	-18.73	150	228	Peak
16674.000	32.29	13.79	46.08	54.00	-7.92	150	322	Average
16674.000	44.23	13.79	58.02	74.00	-15.98	150	322	Peak
17184.000	31.41	13.38	44.79	54.00	-9.21	150	197	Average
17184.000	42.89	13.38	56.27	74.00	-17.73	150	197	Peak
17745.000	33.26	12.96	46.22	54.00	-7.78	150	49	Average
17745.000	43.99	12.96	56.95	74.00	-17.05	150	49	Peak

Middle channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	37.30	-4.76	32.54	54.00	-21.46	318	219	Average
4880.000	45.43	-4.76	40.67	74.00	-33.33	318	219	Peak
7320.000	32.95	-0.25	32.70	54.00	-21.30	152	181	Average
7320.000	42.40	-0.25	42.15	74.00	-31.85	152	181	Peak
16674.000	32.79	13.79	46.58	54.00	-7.42	150	13	Average
16674.000	42.92	13.79	56.71	74.00	-17.29	150	13	Peak
17150.000	31.46	13.54	45.00	54.00	-9.00	150	61	Average
17150.000	42.24	13.54	55.78	74.00	-18.22	150	61	Peak
17320.000	31.56	13.23	44.79	54.00	-9.21	150	99	Average
17320.000	42.69	13.23	55.92	74.00	-18.08	150	99	Peak
17762.000	32.71	12.89	45.60	54.00	-8.40	150	131	Average
17762.000	43.73	12.89	56.62	74.00	-17.38	150	131	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	35.05	-4.76	30.29	54.00	-23.71	101	206	Average
4880.000	43.82	-4.76	39.06	74.00	-34.94	101	206	Peak
7320.000	32.76	-0.25	32.51	54.00	-21.49	123	124	Average
7320.000	44.41	-0.25	44.16	74.00	-29.84	123	124	Peak
16504.000	32.03	13.24	45.27	54.00	-8.73	150	16	Average
16504.000	42.47	13.24	55.71	74.00	-18.29	150	16	Peak
16674.000	33.42	13.79	47.21	54.00	-6.79	150	156	Average
16674.000	42.97	13.79	56.76	74.00	-17.24	150	156	Peak
16742.000	32.80	13.79	46.59	54.00	-7.41	150	315	Average
16742.000	43.24	13.79	57.03	74.00	-16.97	150	315	Peak
17796.000	33.16	12.83	45.99	54.00	-8.01	150	215	Average
17796.000	43.84	12.83	56.67	74.00	-17.33	150	215	Peak

High channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	41.38	-4.78	36.60	54.00	-17.40	117	245	Average
4960.000	48.51	-4.78	43.73	74.00	-30.27	117	245	Peak
7440.000	32.94	-0.27	32.67	54.00	-21.33	156	165	Average
7440.000	43.20	-0.27	42.93	74.00	-31.07	156	165	Peak
16657.000	33.05	13.76	46.81	54.00	-7.19	150	211	Average
16657.000	43.91	13.76	57.67	74.00	-16.33	150	211	Peak
17133.000	31.14	13.59	44.73	54.00	-9.27	150	1	Average
17133.000	42.81	13.59	56.40	74.00	-17.60	150	1	Peak
17558.000	31.82	12.94	44.76	54.00	-9.24	150	164	Average
17558.000	43.21	12.94	56.15	74.00	-17.85	150	164	Peak
17779.000	33.62	12.86	46.48	54.00	-7.52	150	100	Average
17779.000	44.62	12.86	57.48	74.00	-16.52	150	100	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	38.52	-4.78	33.74	54.00	-20.26	343	12	Average
4960.000	46.62	-4.78	41.84	74.00	-32.16	343	12	Peak
7440.000	32.88	-0.27	32.61	54.00	-21.39	134	182	Average
7440.000	43.02	-0.27	42.75	74.00	-31.25	134	182	Peak
16351.000	34.80	11.95	46.75	54.00	-7.25	150	131	Average
16351.000	45.44	11.95	57.39	74.00	-16.61	150	131	Peak
16623.000	31.07	13.69	44.76	54.00	-9.24	150	15	Average
16623.000	44.11	13.69	57.80	74.00	-16.20	150	15	Peak
17201.000	31.21	13.31	44.52	54.00	-9.48	150	110	Average
17201.000	42.90	13.31	56.21	74.00	-17.79	150	110	Peak
17745.000	33.50	12.96	46.46	54.00	-7.54	150	194	Average
17745.000	45.82	12.96	58.78	74.00	-15.22	150	194	Peak

BLE 2M Mode:

Low channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	32.68	-4.98	27.70	54.00	-26.30	114	139	Average
4804.000	43.59	-4.98	38.61	74.00	-35.39	114	139	Peak
7206.000	32.26	-0.78	31.48	54.00	-22.52	167	251	Average
7206.000	43.70	-0.78	42.92	74.00	-31.08	167	251	Peak
16164.000	34.53	11.72	46.25	54.00	-7.75	150	338	Average
16164.000	44.45	11.72	56.17	74.00	-17.83	150	338	Peak
16708.000	30.62	13.83	44.45	54.00	-9.55	150	71	Average
16708.000	44.41	13.83	58.24	74.00	-15.76	150	71	Peak
17082.000	30.66	13.57	44.23	54.00	-9.77	150	196	Average
17082.000	42.87	13.57	56.44	74.00	-17.56	150	196	Peak
17796.000	32.97	12.83	45.80	54.00	-8.20	150	17	Average
17796.000	44.53	12.83	57.36	74.00	-16.64	150	17	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	33.52	-4.98	28.54	54.00	-25.46	135	43	Average
4804.000	43.21	-4.98	38.23	74.00	-35.77	135	43	Peak
7206.000	32.31	-0.78	31.53	54.00	-22.47	159	209	Average
7206.000	42.89	-0.78	42.11	74.00	-31.89	159	209	Peak
16419.000	31.85	12.47	44.32	54.00	-9.68	150	103	Average
16419.000	44.50	12.47	56.97	74.00	-17.03	150	103	Peak
16674.000	32.33	13.79	46.12	54.00	-7.88	150	175	Average
16674.000	43.77	13.79	57.56	74.00	-16.44	150	175	Peak
17031.000	31.35	13.25	44.60	54.00	-9.40	150	327	Average
17031.000	42.42	13.25	55.67	74.00	-18.33	150	327	Peak
17813.000	33.30	12.74	46.04	54.00	-7.96	150	88	Average
17813.000	43.89	12.74	56.63	74.00	-17.37	150	88	Peak

Middle channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	33.21	-4.76	28.45	54.00	-25.55	156	171	Average
4880.000	44.48	-4.76	39.72	74.00	-34.28	156	171	Peak
7320.000	32.50	-0.25	32.25	54.00	-21.75	152	231	Average
7320.000	43.61	-0.25	43.36	74.00	-30.64	152	231	Peak
16028.000	32.11	11.19	43.30	54.00	-10.70	150	311	Average
16028.000	44.05	11.19	55.24	74.00	-18.76	150	311	Peak
16759.000	31.85	13.75	45.60	54.00	-8.40	150	22	Average
16759.000	43.11	13.75	56.86	74.00	-17.14	150	22	Peak
17184.000	30.76	13.38	44.14	54.00	-9.86	150	67	Average
17184.000	42.22	13.38	55.60	74.00	-18.40	150	67	Peak
17796.000	32.92	12.83	45.75	54.00	-8.25	150	221	Average
17796.000	44.34	12.83	57.17	74.00	-16.83	150	221	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	34.08	-4.76	29.32	54.00	-24.68	187	18	Average
4880.000	44.76	-4.76	40.00	74.00	-34.00	187	18	Peak
7320.000	31.96	-0.25	31.71	54.00	-22.29	121	311	Average
7320.000	43.39	-0.25	43.14	74.00	-30.86	121	311	Peak
16453.000	33.57	12.78	46.35	54.00	-7.65	150	197	Average
16453.000	44.29	12.78	57.07	74.00	-16.93	150	197	Peak
16708.000	31.44	13.83	45.27	54.00	-8.73	150	226	Average
16708.000	43.33	13.83	57.16	74.00	-16.84	150	226	Peak
17354.000	31.56	13.07	44.63	54.00	-9.37	150	118	Average
17354.000	42.91	13.07	55.98	74.00	-18.02	150	118	Peak
17745.000	32.44	12.96	45.40	54.00	-8.60	150	197	Average
17745.000	43.66	12.96	56.62	74.00	-17.38	150	197	Peak

High channel

Horizontal

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	38.78	-4.78	34.00	54.00	-20.00	116	243	Average
4960.000	47.52	-4.78	42.74	74.00	-31.26	116	243	Peak
7440.000	32.43	-0.27	32.16	54.00	-21.84	156	165	Average
7440.000	43.20	-0.27	42.93	74.00	-31.07	156	165	Peak
16028.000	32.75	11.19	43.94	54.00	-10.06	150	331	Average
16028.000	44.49	11.19	55.68	74.00	-18.32	150	331	Peak
16623.000	32.67	13.69	46.36	54.00	-7.64	150	123	Average
16623.000	44.05	13.69	57.74	74.00	-16.26	150	123	Peak
17184.000	30.93	13.38	44.31	54.00	-9.69	150	61	Average
17184.000	43.46	13.38	56.84	74.00	-17.16	150	61	Peak
17830.000	33.37	12.62	45.99	54.00	-8.01	150	94	Average
17830.000	44.41	12.62	57.03	74.00	-16.97	150	94	Peak

Vertical

Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	35.70	-4.78	30.92	54.00	-23.08	344	174	Average
4960.000	45.55	-4.78	40.77	74.00	-33.23	344	174	Peak
7440.000	32.21	-0.27	31.94	54.00	-22.06	112	156	Average
7440.000	44.16	-0.27	43.89	74.00	-30.11	112	156	Peak
16555.000	31.87	13.54	45.41	54.00	-8.59	150	213	Average
16555.000	43.92	13.54	57.46	74.00	-16.54	150	213	Peak
16725.000	31.93	13.81	45.74	54.00	-8.26	150	315	Average
16725.000	44.42	13.81	58.23	74.00	-15.77	150	315	Peak
17303.000	31.18	13.32	44.50	54.00	-9.50	150	34	Average
17303.000	43.12	13.32	56.44	74.00	-17.56	150	34	Peak
17779.000	32.98	12.86	45.84	54.00	-8.16	150	15	Average
17779.000	44.76	12.86	57.62	74.00	-16.38	150	15	Peak

Note:

Level = Reading + Factor.

Margin = Level – Limit.

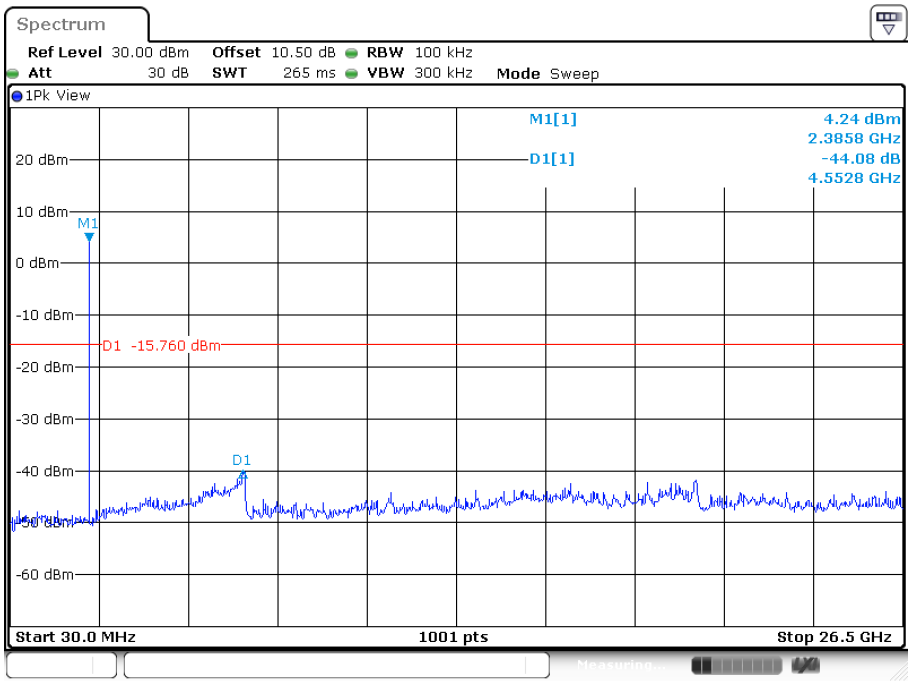
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	44.08	≥ 20	PASS
Middle	2440	43.05	≥ 20	PASS
High	2480	44.69	≥ 20	PASS
BLE(2M) Mode				
Low	2402	42.66	≥ 20	PASS
Middle	2440	42.98	≥ 20	PASS
High	2480	42.30	≥ 20	PASS

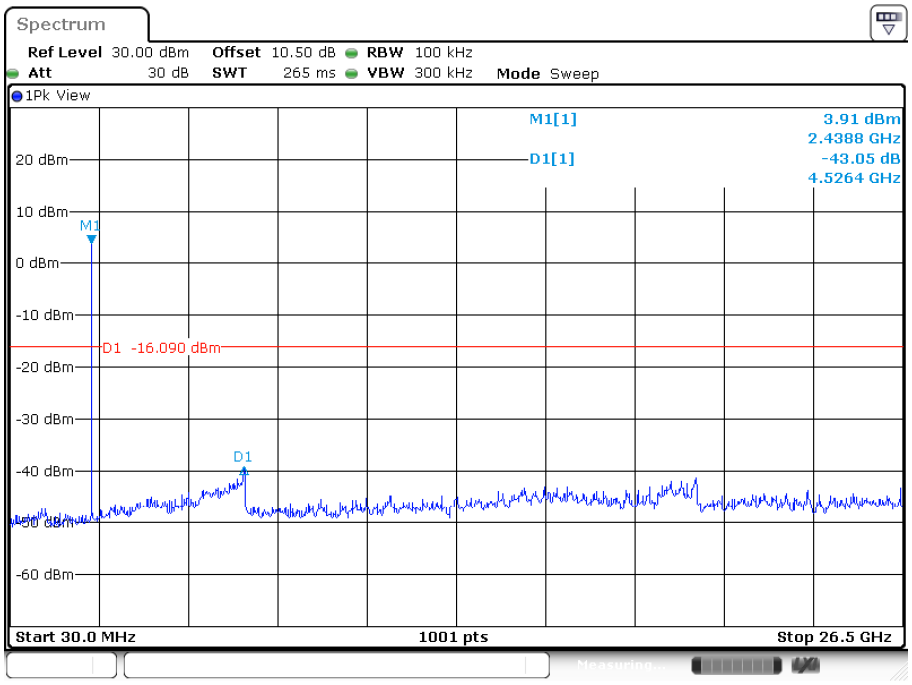
BLE(1M) Mode

Low Channel



ProjectNo.:RXZ260302006 Tester:Jet
Date: 16.APR.2026 15:31:14

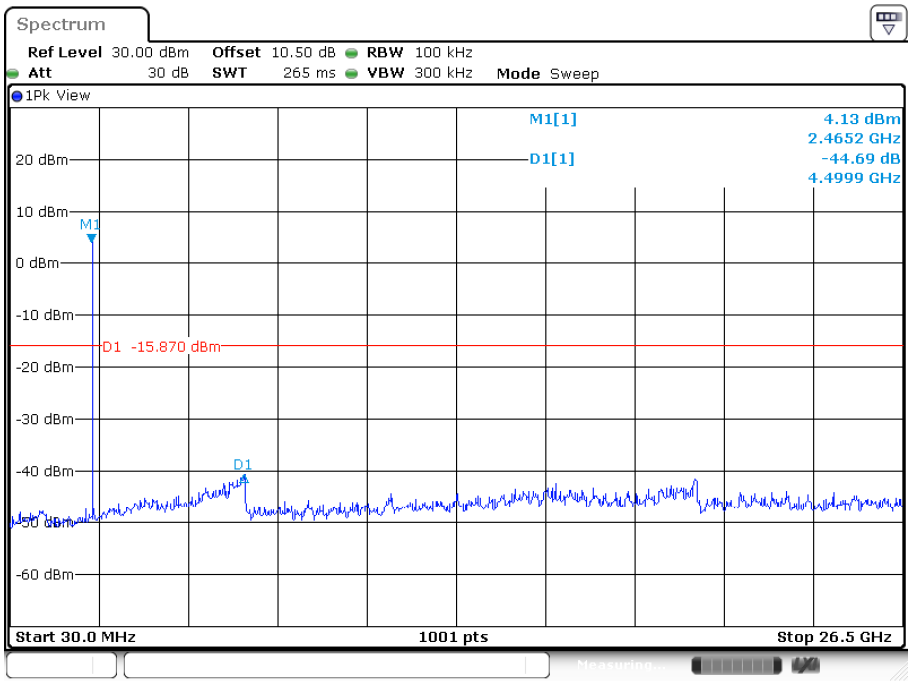
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:32:51

High Channel

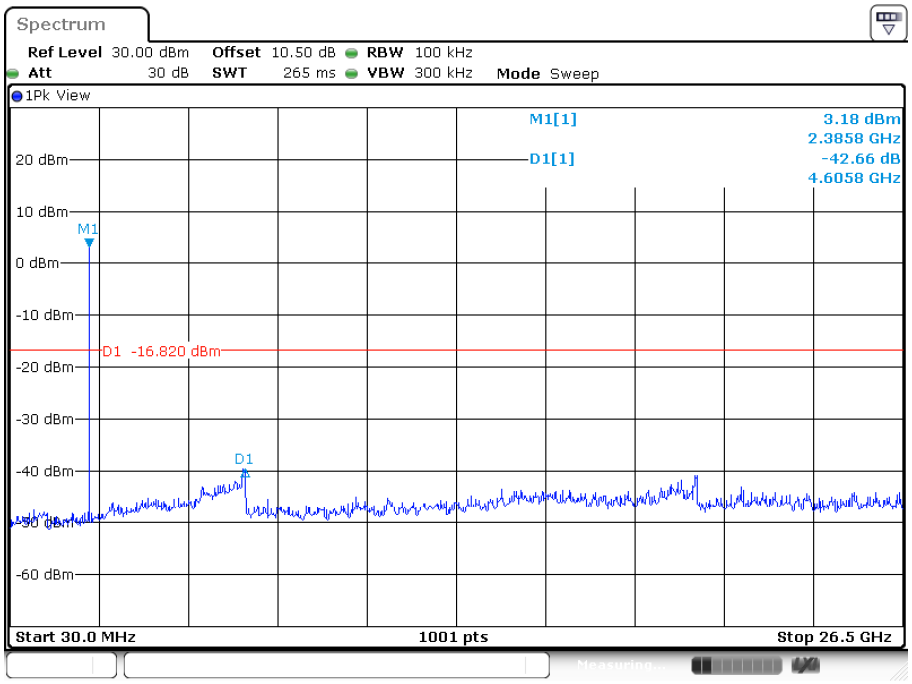


ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:34:48

BLE(2M) Mode

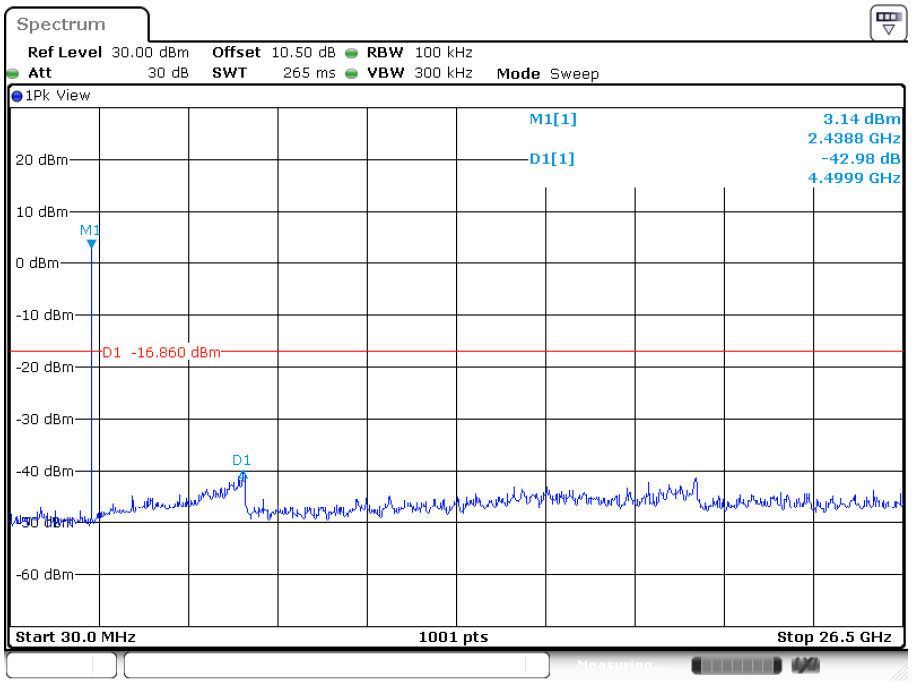
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:36:39

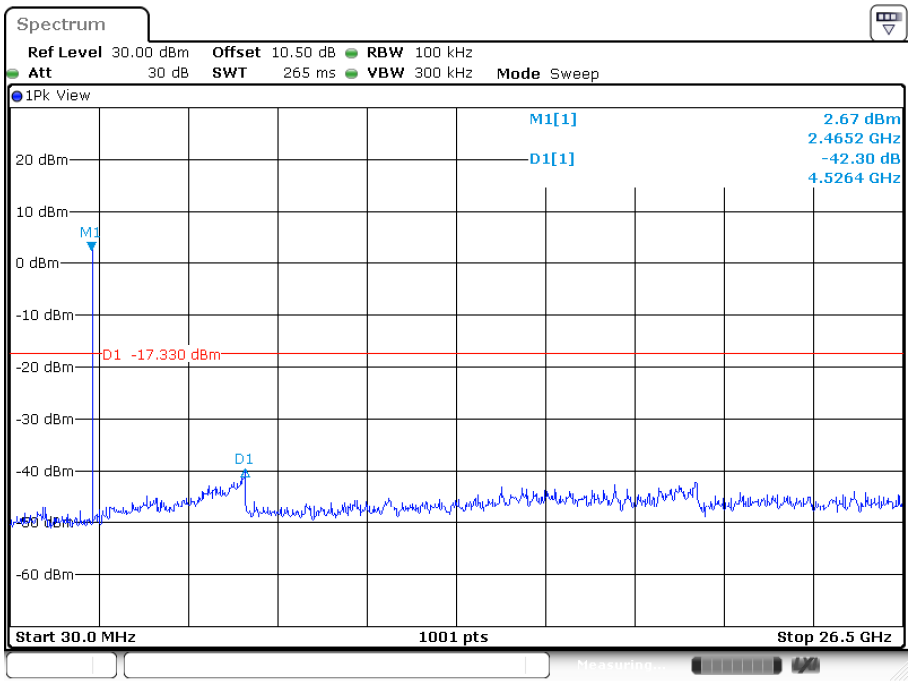
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:38:16

High Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:40:15

8 FCC §15.247(a)(2) – 6 dB Emission Bandwidth

8.1 Applicable Standard

According to FCC §15.247(a)(2).

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Test Procedure

According to ANSI C63.10-2020, section 11.8

The steps for the first option are as follows:

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
b) Set the VBW ≥ [3 × RBW].
c) Detector = peak.
d) Trace mode = max hold.
e) Sweep = No faster than coupled (auto) time.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−6 dB down amplitude". If a marker is below this "−6 dB down amplitude" value, then it shall be as close as possible to this value.

According to ANSI C63.10-2020, section 6.9.3

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

8.3 Test Results

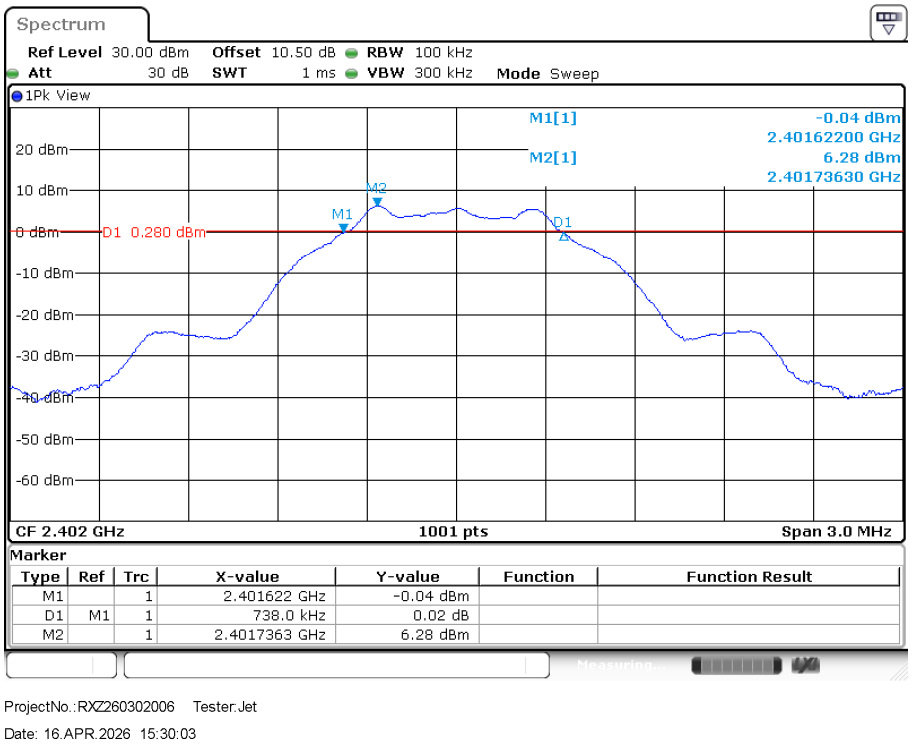
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (kHz)	Result
BLE(1M) Mode					
Low	2402	0.74	1.04	> 500	PASS
Middle	2440	0.74	1.04	> 500	PASS
High	2480	0.74	1.04	> 500	PASS
BLE(2M) Mode					
Low	2402	1.28	2.04	> 500	PASS
Middle	2440	1.29	2.04	> 500	PASS
High	2480	1.29	2.04	> 500	PASS

Please refer to the following plots

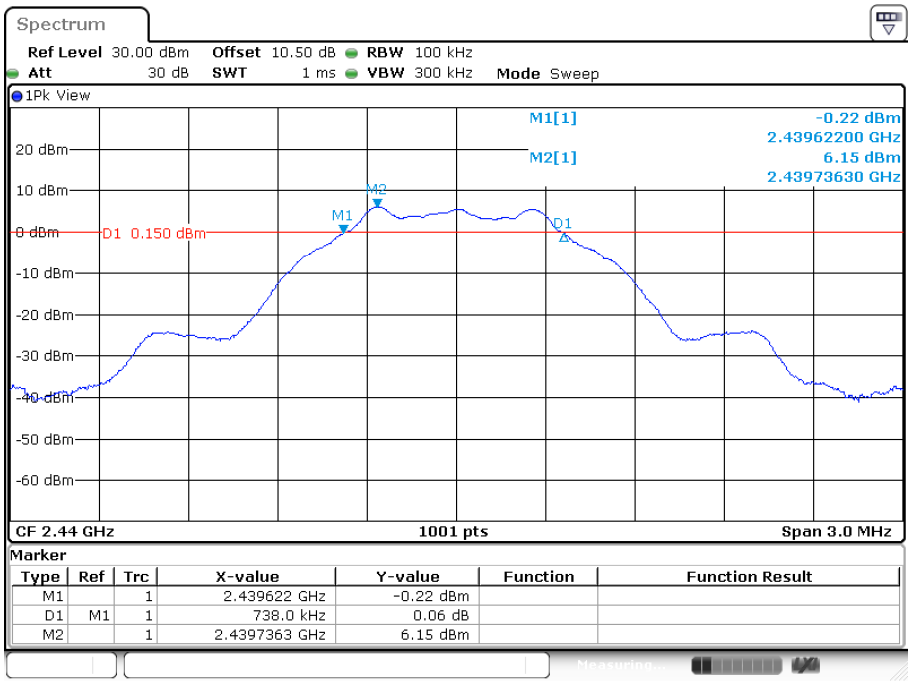
6 dB Emission Bandwidth

BLE(1M) Mode

Low Channel



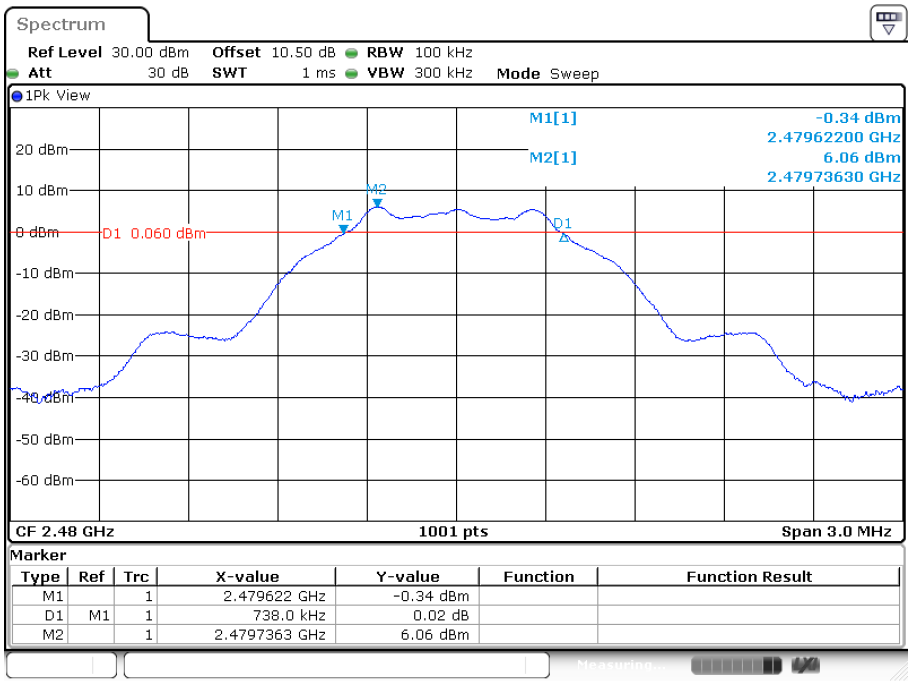
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:32:01

High Channel

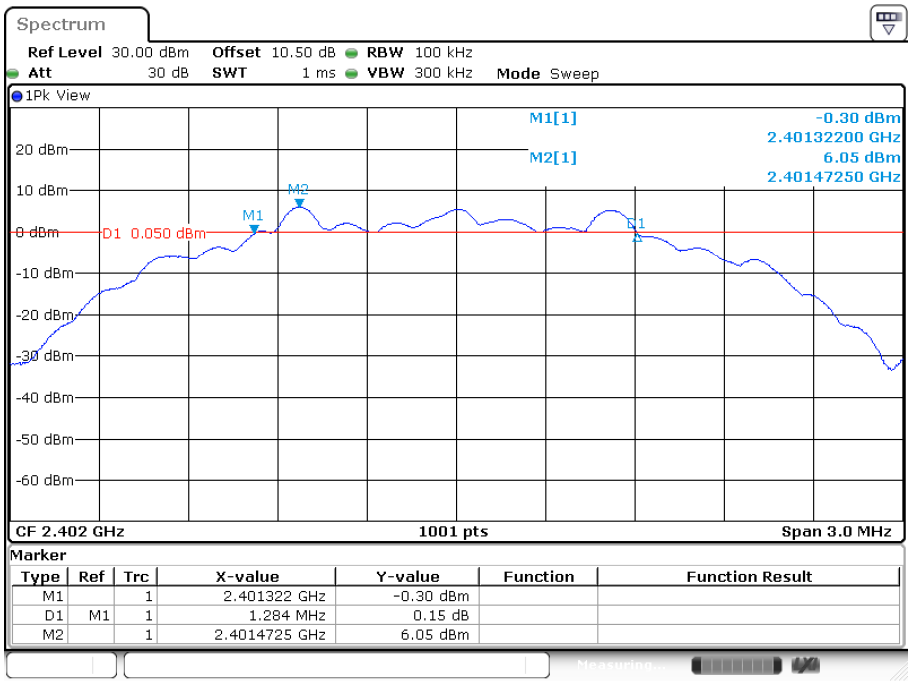


ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:33:37

BLE(2M) Mode

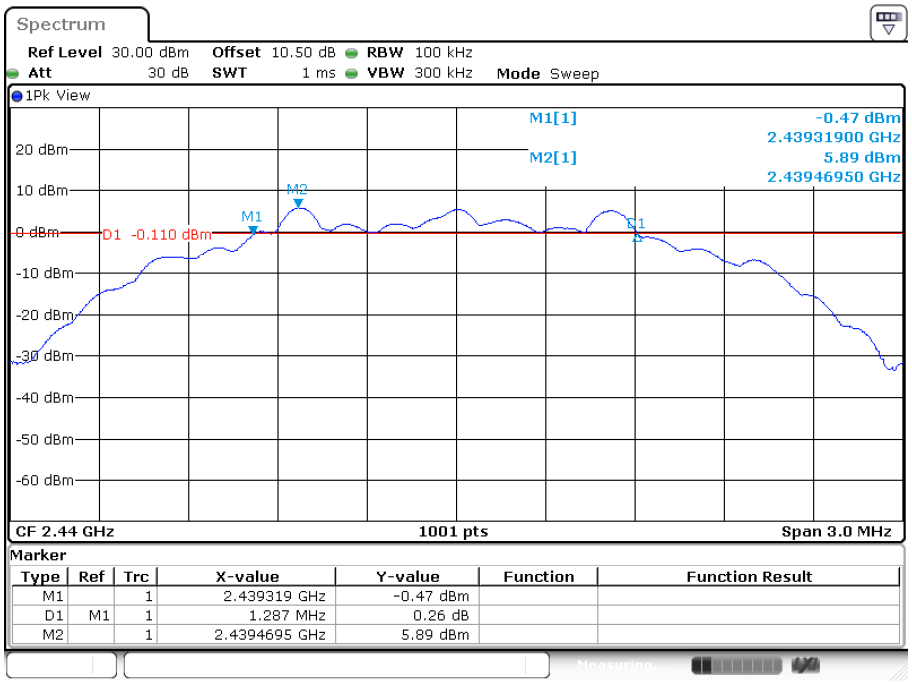
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:35:28

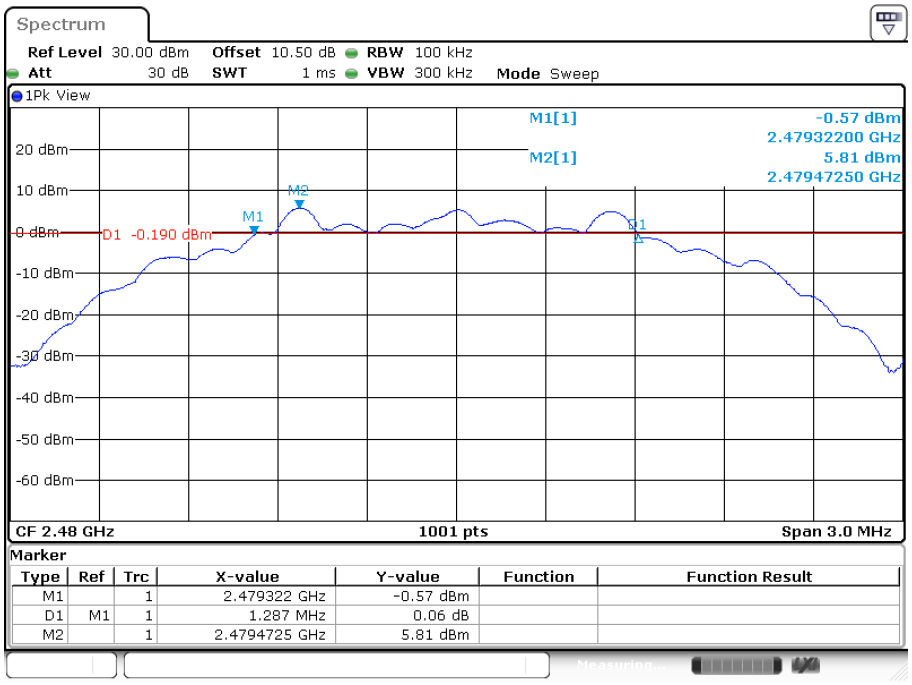
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:37:26

High Channel



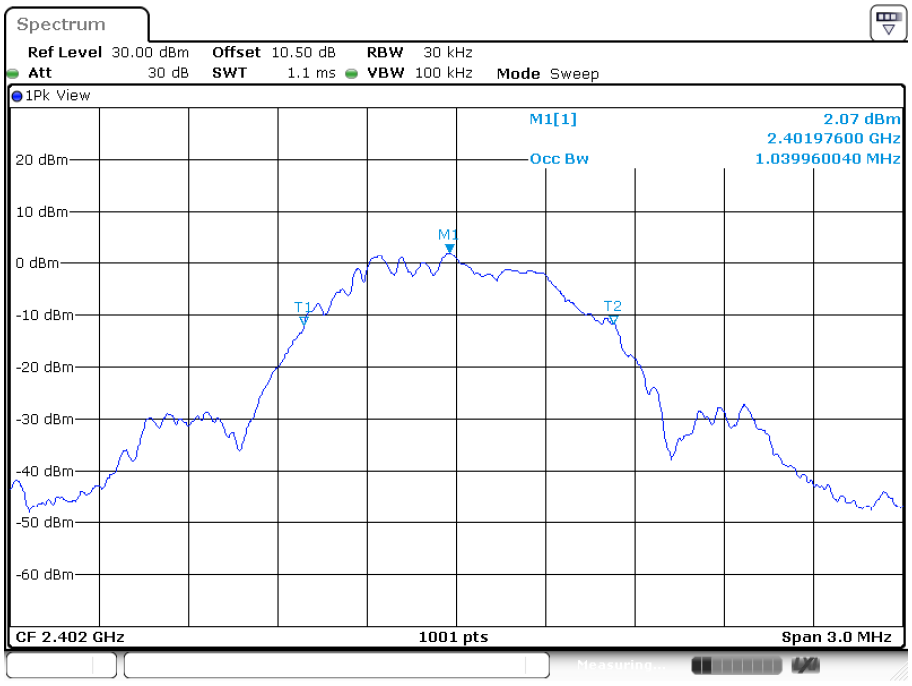
ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:39:05

99% Bandwidth

BLE(1M) Mode

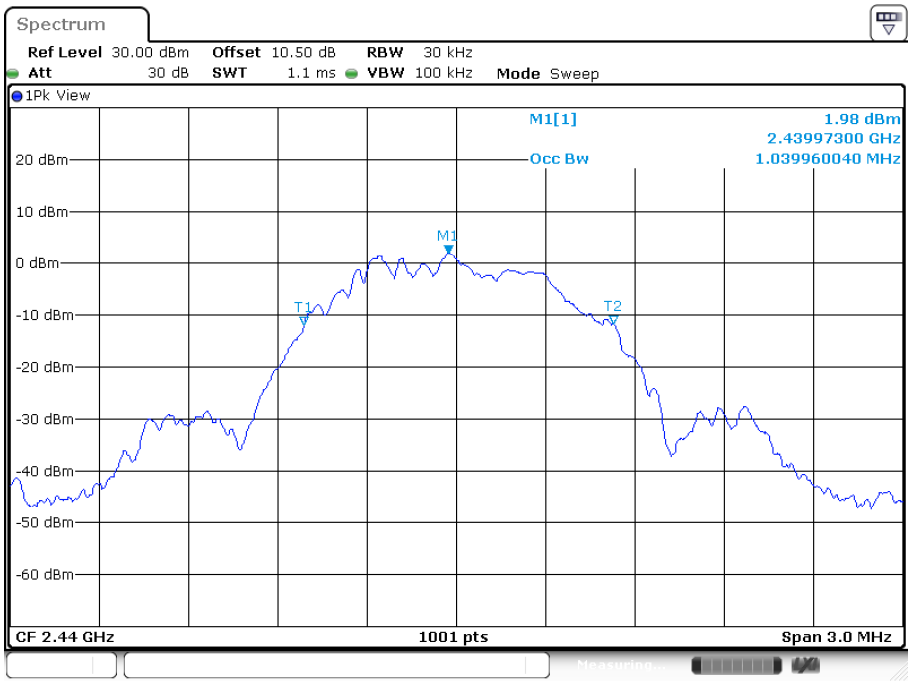
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:30:33

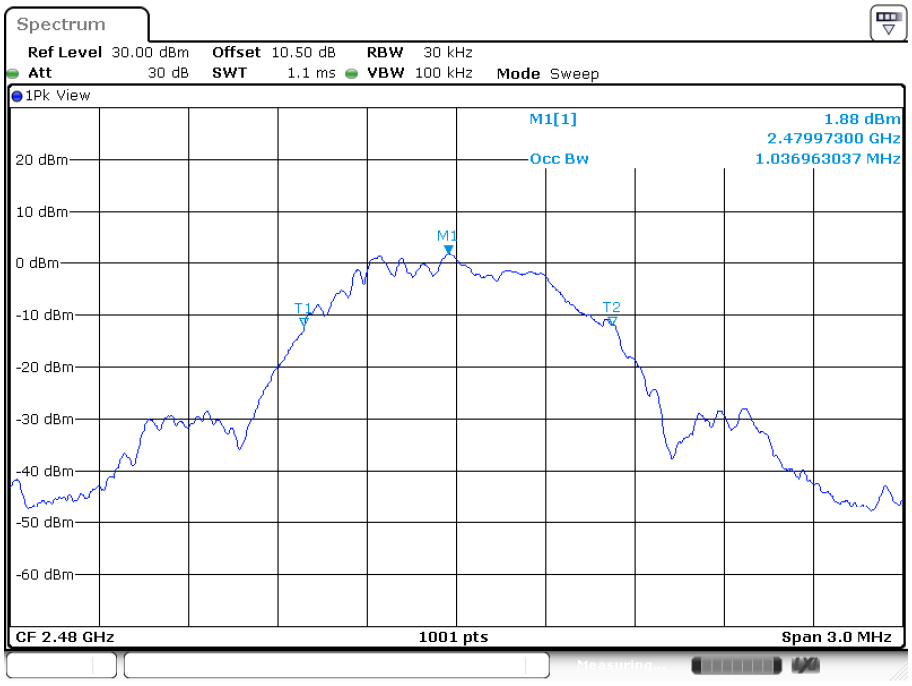
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:32:30

High Channel

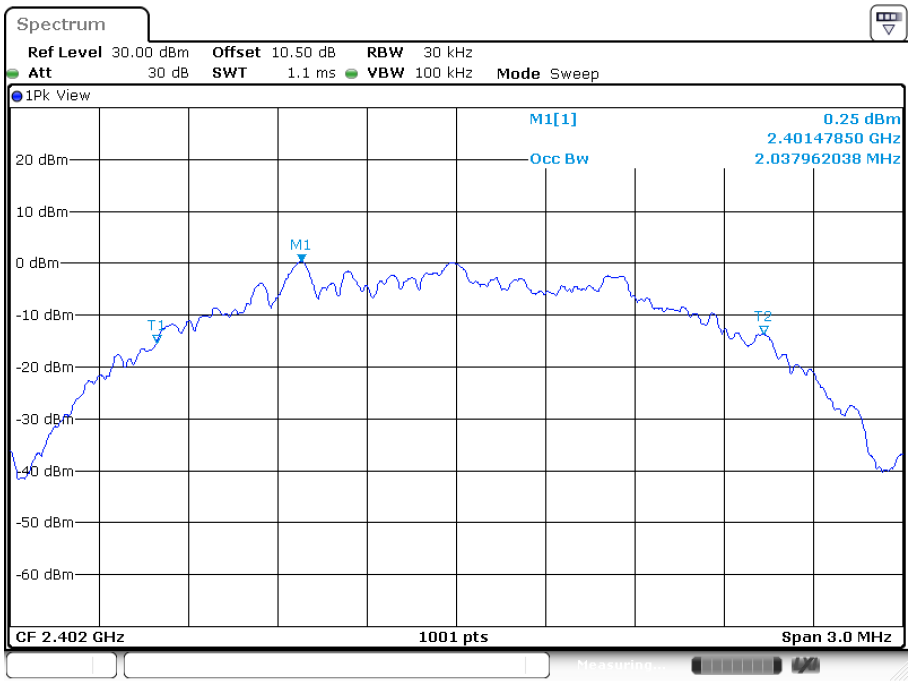


ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:34:06

BLE(2M) Mode

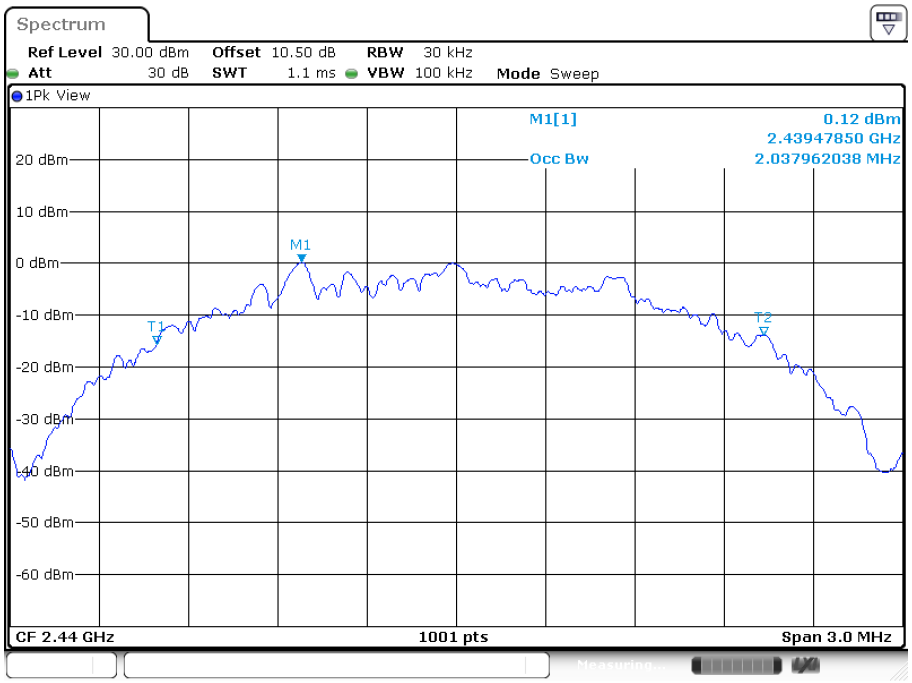
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:35:57

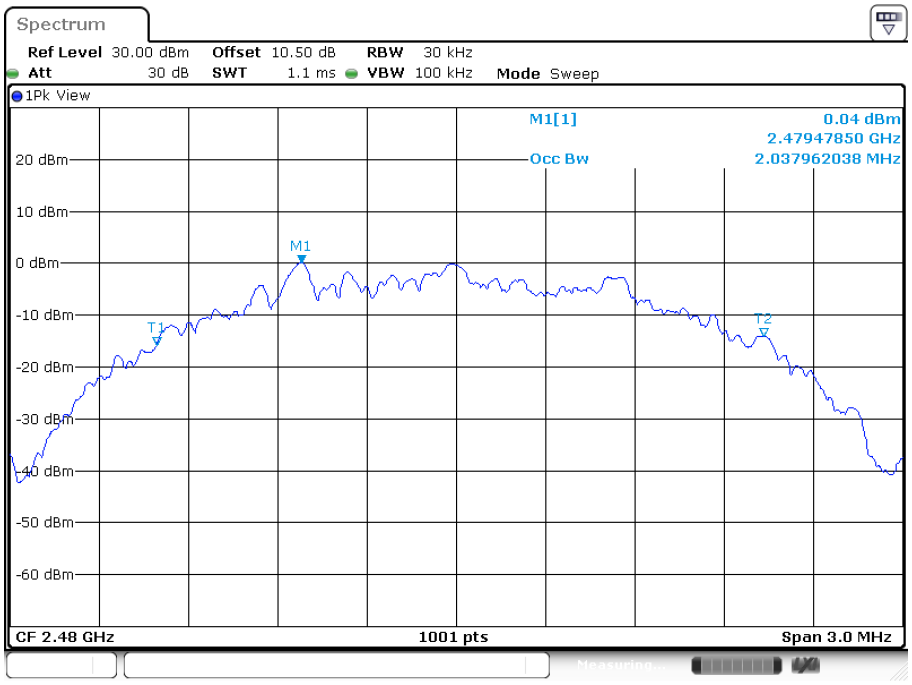
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:37:56

High Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:39:34

9 FCC §15.247(b)(3) – Maximum Output Power

9.1 Applicable Standard

According to FCC §15.247(b) (3).

Systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

9.2 Test Procedure

According to ANSI C63.10-2020, section 11.9.1.2

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to power meter.

9.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE(1M) Mode				
Low	2402	6.48	30	PASS
Middle	2440	6.32	30	PASS
High	2480	6.28	30	PASS
BLE(2M) Mode				
Low	2402	6.47	30	PASS
Middle	2440	6.34	30	PASS
High	2480	6.29	30	PASS

10 FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

10.1 Applicable Standard

According to FCC §15.247(d).

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

10.2 Test Procedure

According to ANSI C63.10-2020 Section 11.11.3

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

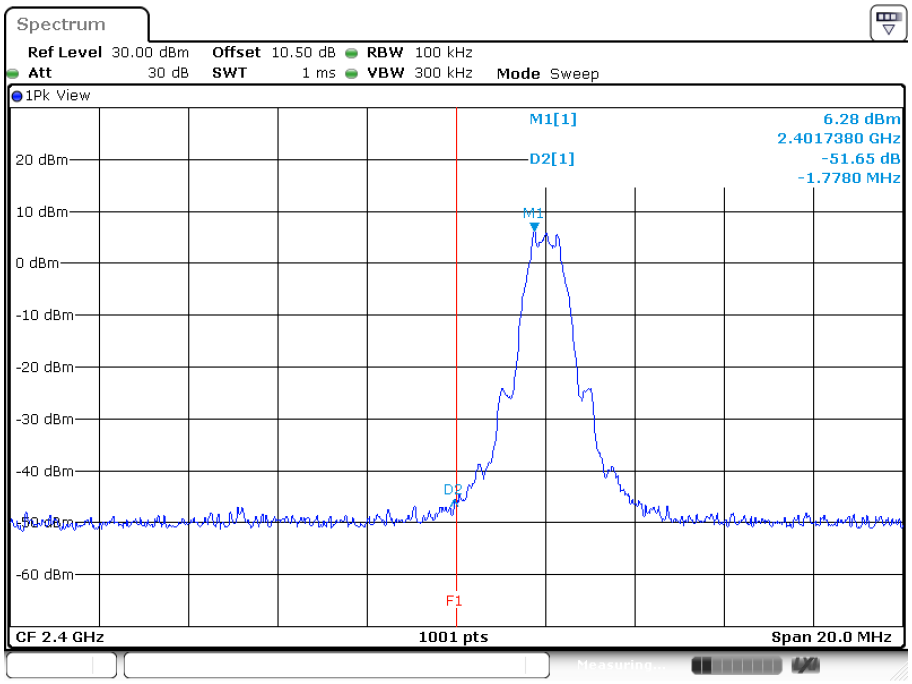
10.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	51.65	≥ 20	PASS
High	2480	53.51	≥ 20	PASS
BLE(2M) Mode				
Low	2402	30.81	≥ 20	PASS
High	2480	51.94	≥ 20	PASS

Please refer to the following plots.

BLE(1M) Mode

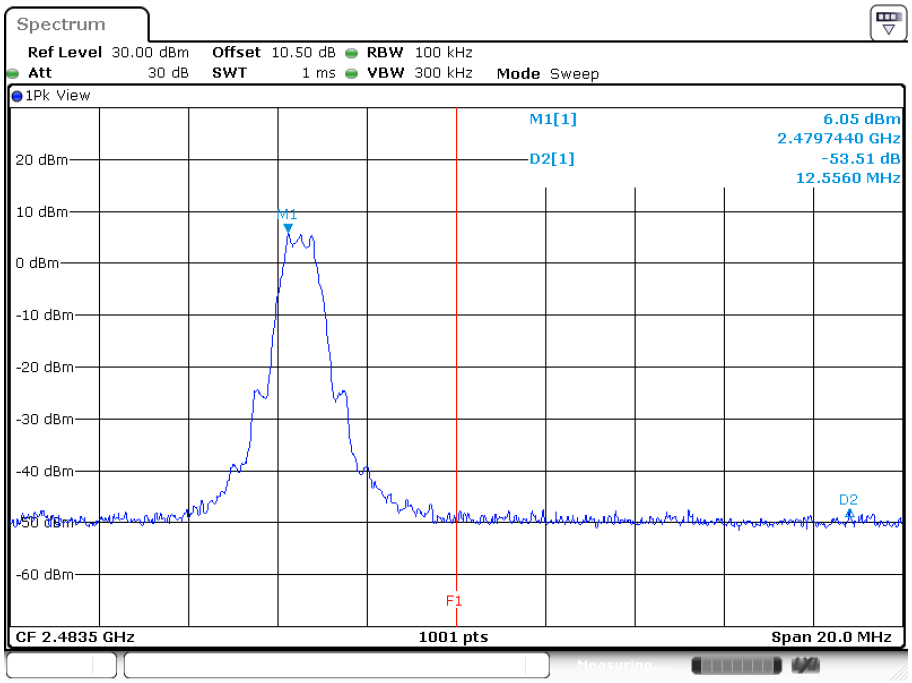
Band Edge, Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:30:54

Band Edge, High Channel

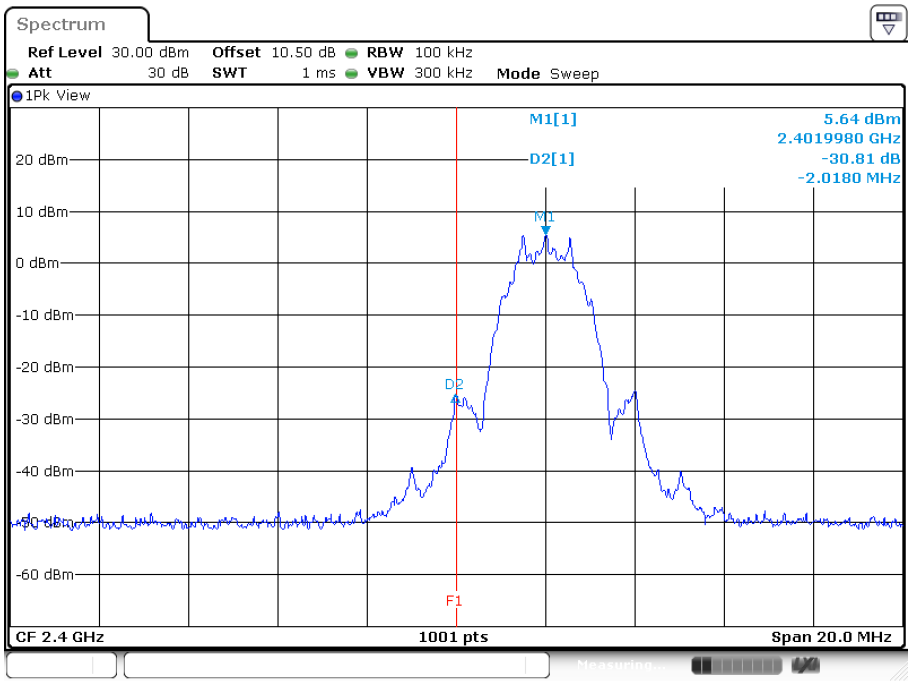


ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:34:28

BLE(2M) Mode

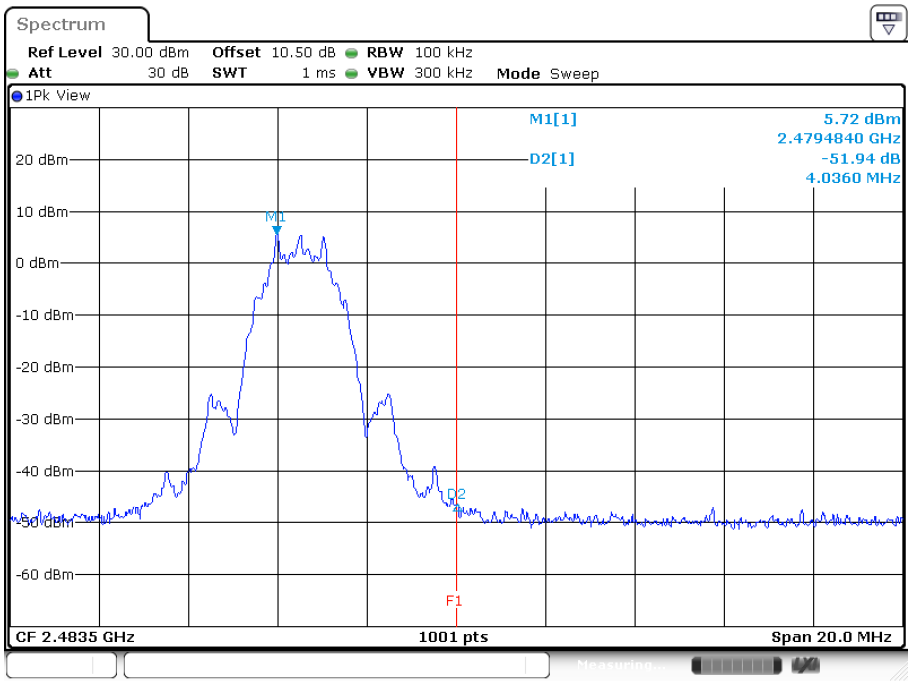
Band Edge, Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:36:19

Band Edge, High Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:39:55

11 FCC §15.247(e) – Power Spectral Density

11.1 Applicable Standard

According to FCC §15.247(e).

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

11.2 Test Procedure

According to ANSI C63.10-2020, section 11.10.2

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span >1.5 times the DTS bandwidth.

c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.

d) Set the VBW ≥ [3 × RBW].

e) Detector = peak.

f) Sweep time = No faster than coupled (auto) time.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

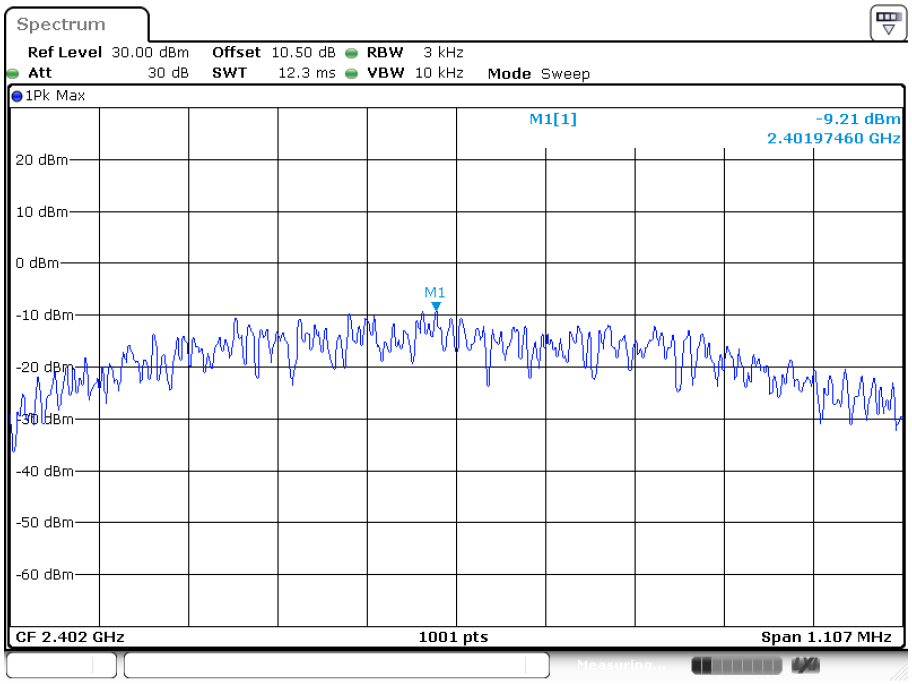
11.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE(1M) Mode				
Low	2402	-9.21	8	PASS
Middle	2440	-9.40	8	PASS
High	2480	-9.36	8	PASS
BLE(2M) Mode				
Low	2402	-12.66	8	PASS
Middle	2440	-12.73	8	PASS
High	2480	-12.84	8	PASS

Please refer to the following plots

BLE(1M) Mode

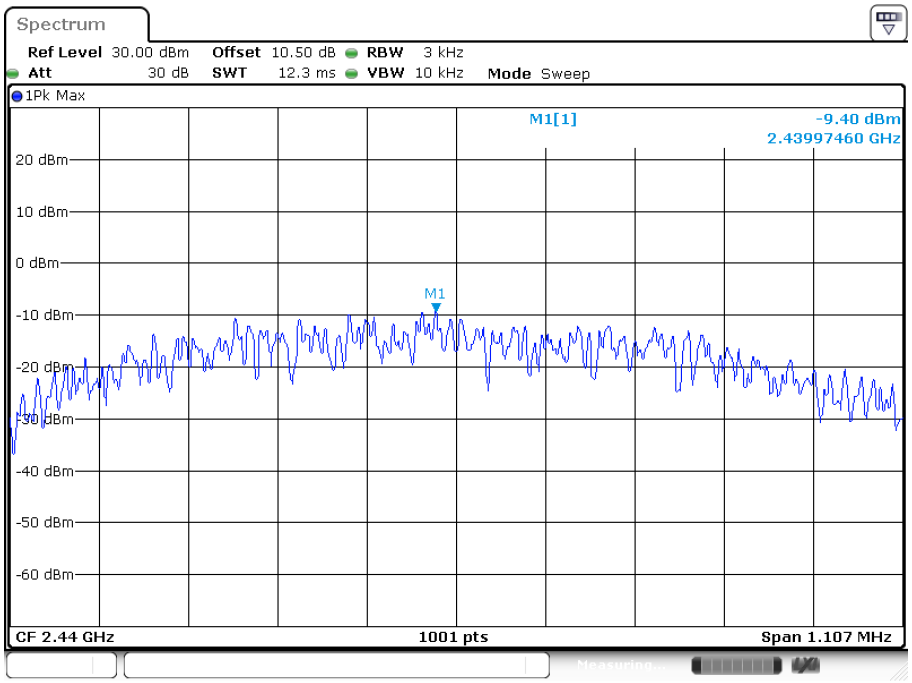
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:30:13

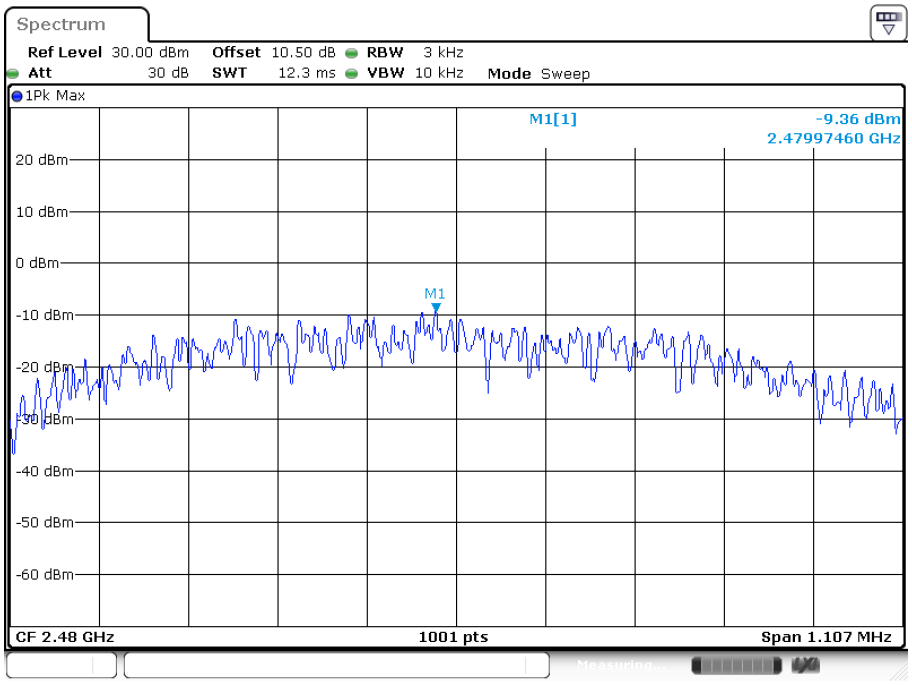
Middle Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:32:10

High Channel

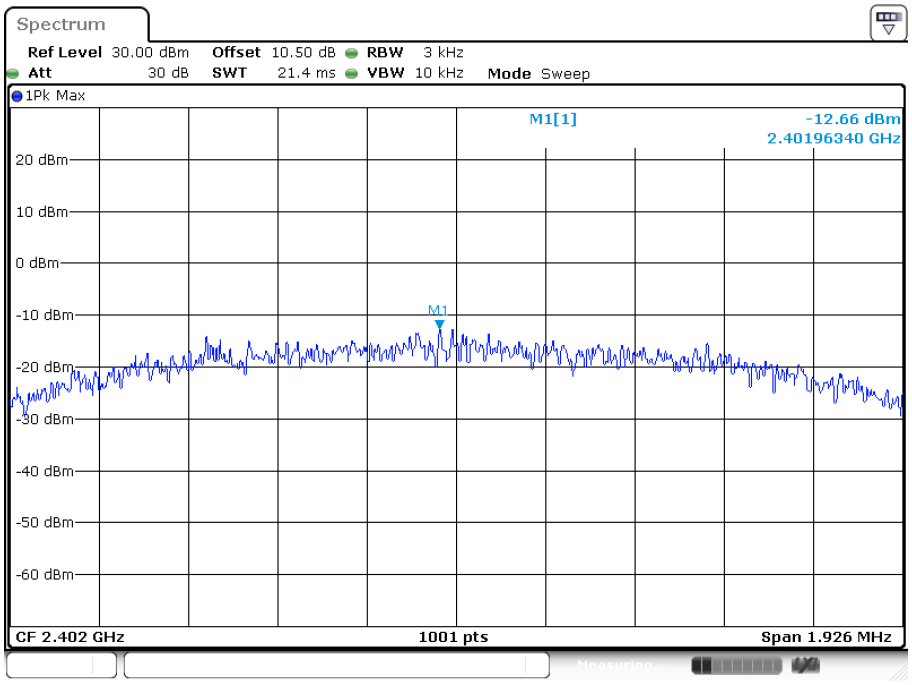


ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:33:46

BLE(2M) Mode

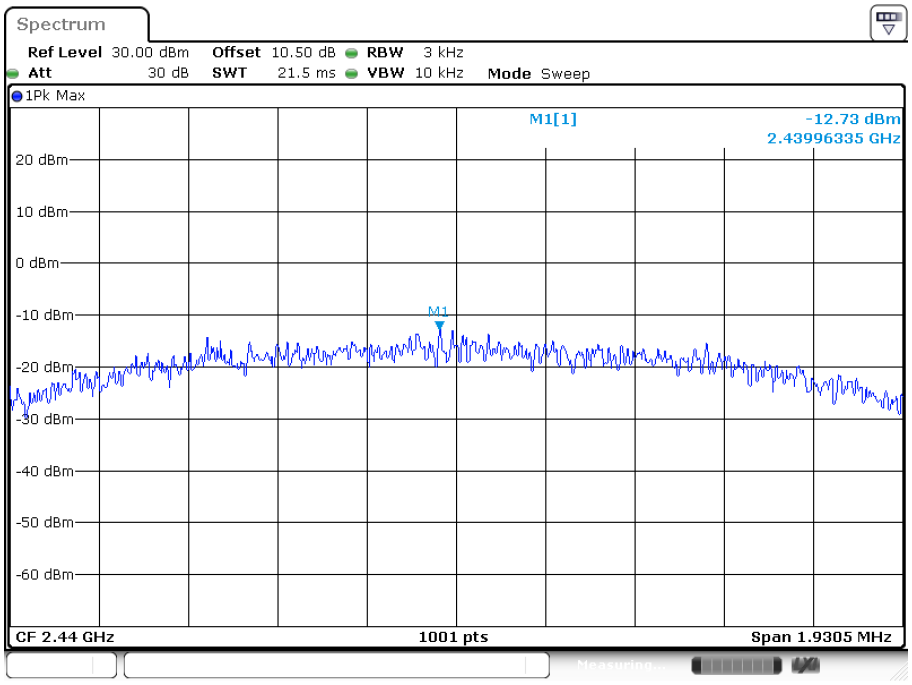
Low Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:35:37

Middle Channel



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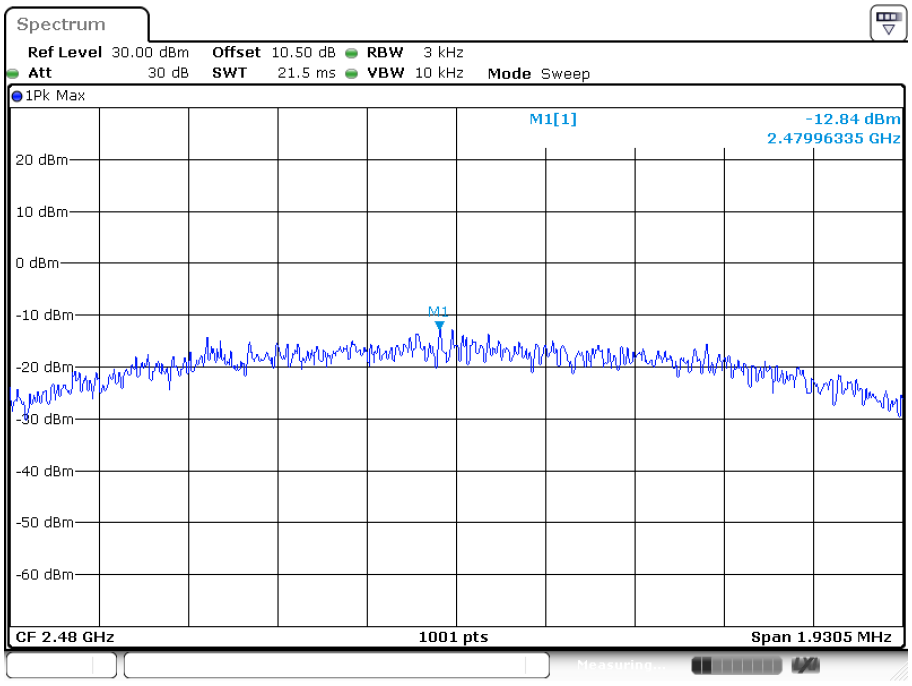
Date: 16.APR.2026 15:37:35

High Channel



ProjectNo.:RXZ260302006 Tester:Jet

Date: 16.APR.2026 15:39:14

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