

FCC Part 15.247

TEST REPORT

For

Zhuhai Suny Technology Co.,Ltd

Room 901, 9th Floor, sihal Building, Phase 1, No.3 jinhua Road, Honggi
Town,Zhuhai,Guangdong,519000,China

FCC ID: 2BU9I-ET0213-81

Report Type: Original Report	Product Type: ESL (Electronic Shelf Label)
Report Producer : <u>Coco Lin</u>	
Report Number : <u>RXZ260319064RF01</u>	
Report Date : <u>2026-04-28</u>	
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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ260319064	RXZ260319064RF01	2026-04-28	Original Report	Coco Lin

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Zhuhai Suny Technology Co.,Ltd
	Room 901, 9th Floor, sihal Building, Phase 1, No.3 jinhua Road, Honggi Town,Zhuhai,Guangdong,519000,China
Brand(Trade) Name	N/A
Product (Equipment)	ESL (Electronic Shelf Label)
Main Model Name	ET0213-81
Series Model Name	ET0213-39
Model Discrepancy	The main electrical and mechanical structures of the series models are the same as the basic model, with the only difference being the appearance. Please refer to the difference declaration letter provided by the Applicant.
Frequency Range	BLE(1M) / BLE(2M) : 2402 ~ 2480 MHz
Maximum Conducted Peak Output Power	BLE(1M) Mode : -3.72 dBm BLE(2M) Mode : -3.55 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)	3Vdc from Battery
Received Date	2026/03/20

*All measurement and test data in this report was gathered from production sample serial number:

RXZ260319064-1 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *Zhuhai Suny Technology Co.,Ltd* 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 (°C)	Relative Humidity (%)	Test Engineer
Radiation Spurious Emissions	2026/3/26~2026/4/7	21.9~23.4	67~69	Toney Chen
Duty Cycle	2026/4/2	24	56	Sean Chen
Conducted Spurious Emissions	2026/4/2	24	56	Sean Chen
Emission Bandwidth	2026/4/2	24	56	Sean Chen
Maximum Output Power	2026/4/2	24	56	Sean Chen
100 kHz Bandwidth of Frequency Band Edge	2026/4/2	24	56	Sean Chen
Power Spectral Density	2026/4/2	24	56	Sean Chen

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 “Atmosic RF Tool v1.5.3”

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

Test Frequency		Low	Middle	High
Power Level Setting	BLE 1M	5	5	5
	BLE 2M	5	5	5

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Full System (model: ET0213-81) for all test item.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
Fixture	GZU	USB->TTL V2.2

2.6 External Cable List and Details

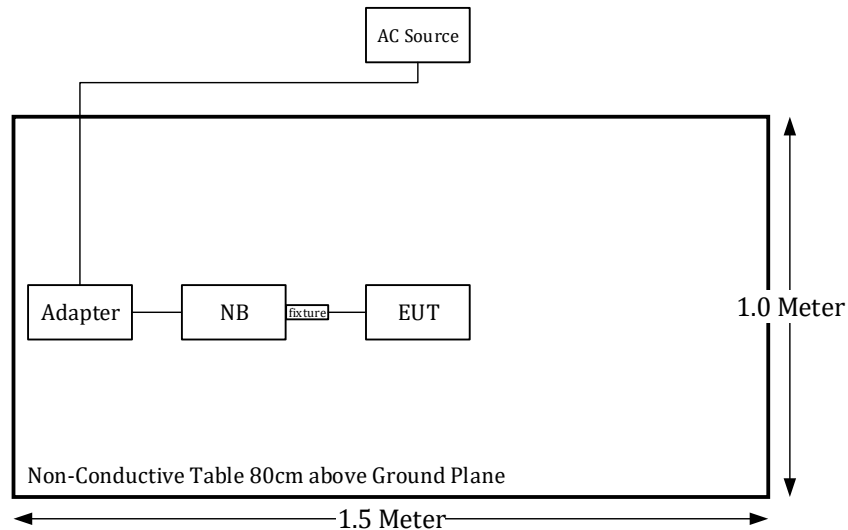
N/A

2.7 Block Diagram of Test Setup

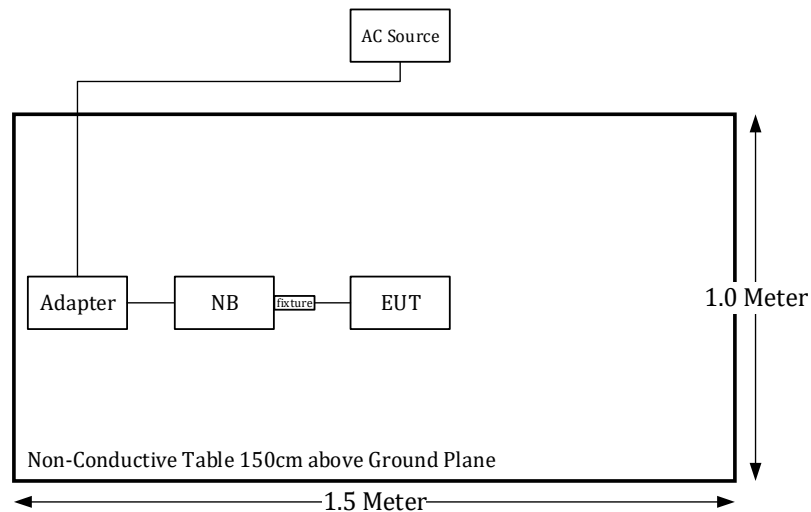
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

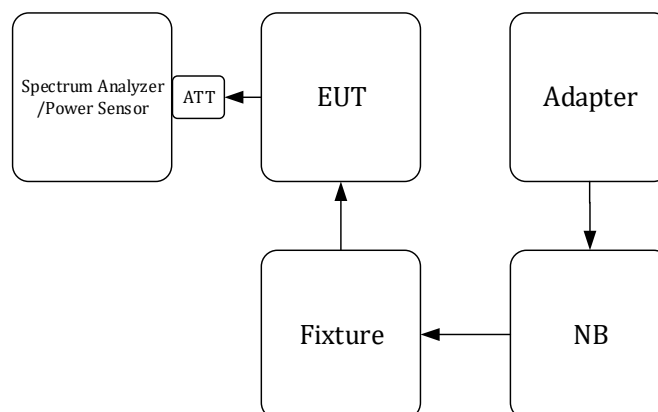
Below 1GHz:



Above 1GHz:



Conducted:



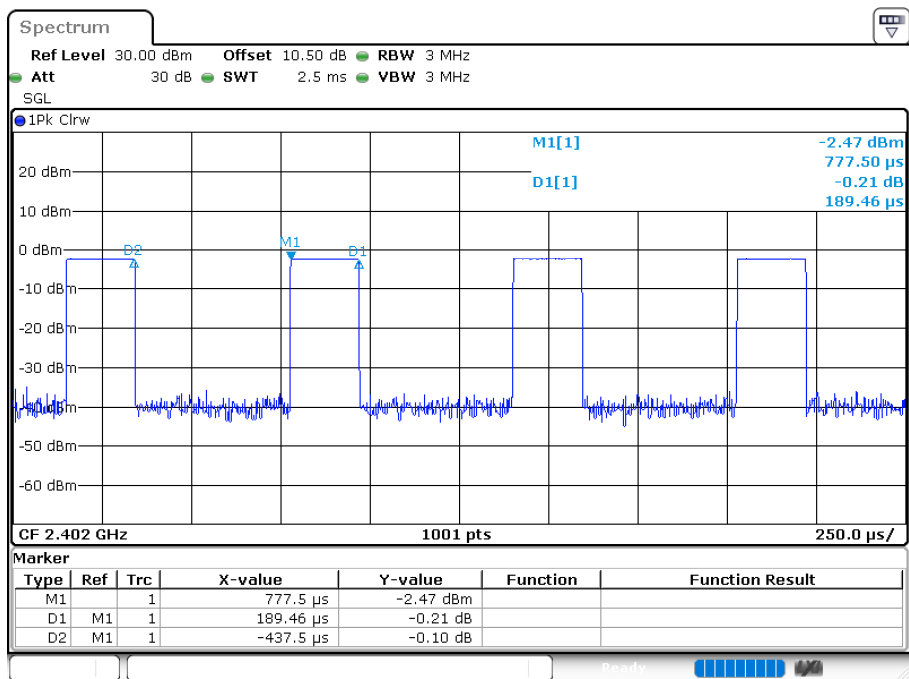
2.8 Duty Cycle

The duty cycle as below:

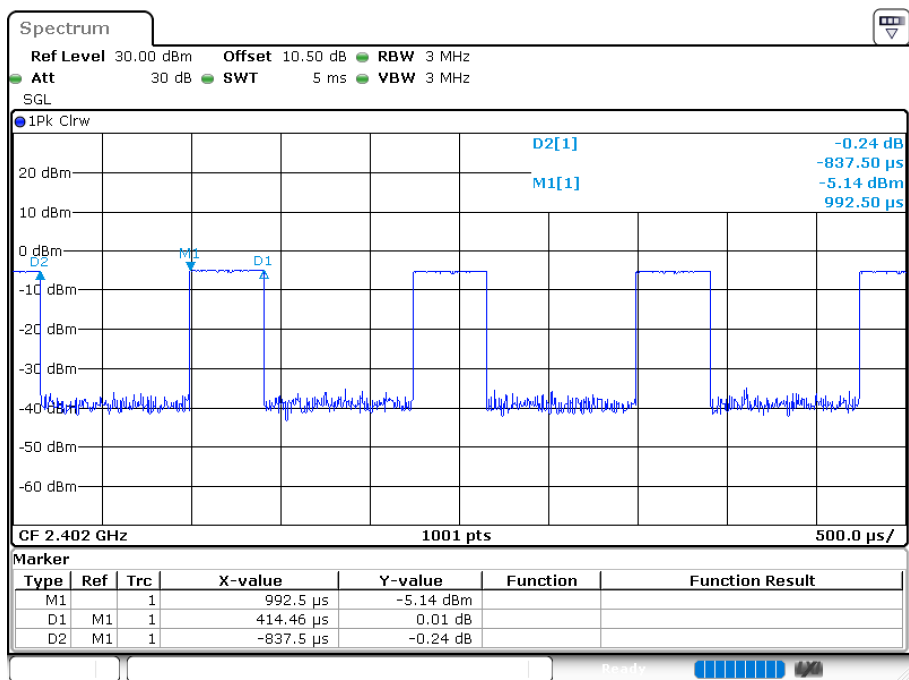
Radio Mode	Ton (ms)	Toff (ms)	Duty Cycle (%)	1/Ton (kHz)	1/T VBW setting (kHz)
BLE(1M)	0.189	0.438	30	5.29	10
BLE(2M)	0.414	0.838	33	2.42	3

Please refer to the following plots.

BLE(1M) Mode



BLE(2M) Mode



3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Not applicable
§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

Not Applicable: The EUT is powered by battery only.

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
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+	A050115/1554_2_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	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
Horn Antenna	ETS-Lindgren	3116	62638	2025/9/4	2026/9/4
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2025/4/10	2026/4/10
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

Antenna Type	Antenna Gain
PCB	-1.4 dBi

Antenna was permanently attached to the unit.

Result: Compliance

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

6.1 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.

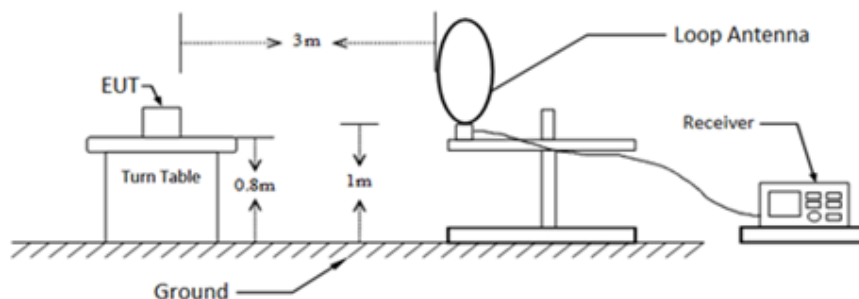
According to ANSI C63.10-2020, section 5.3.3

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).

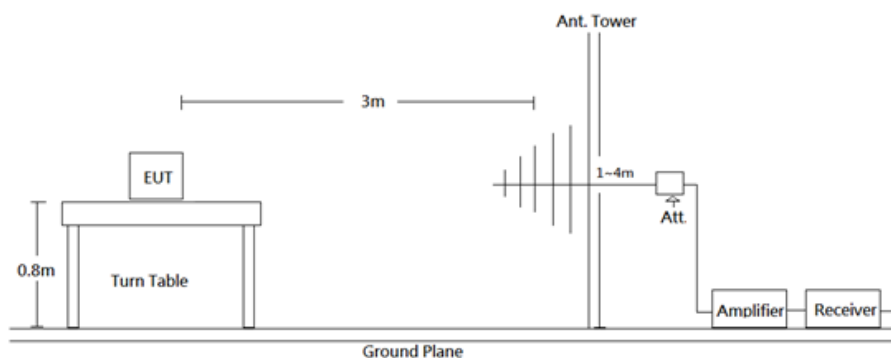
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the 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)).

6.2 EUT Setup

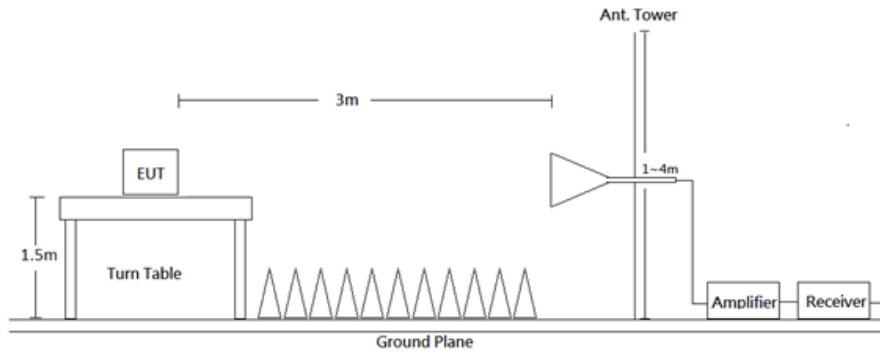
9kHz-30MHz:



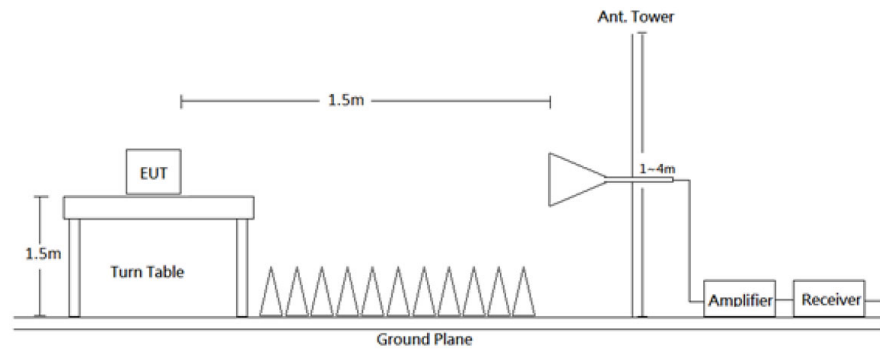
30MHz-1GHz:



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.

6.3 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	$\geq 1/\text{Ton}$, 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	$\geq 1/\text{Ton}$	/	<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

6.4 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 $\geq [3 \times \text{RBW}]$.
- 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.

6.5 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:

$$\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Level} - \text{Limit}$$

6.6 Test Results

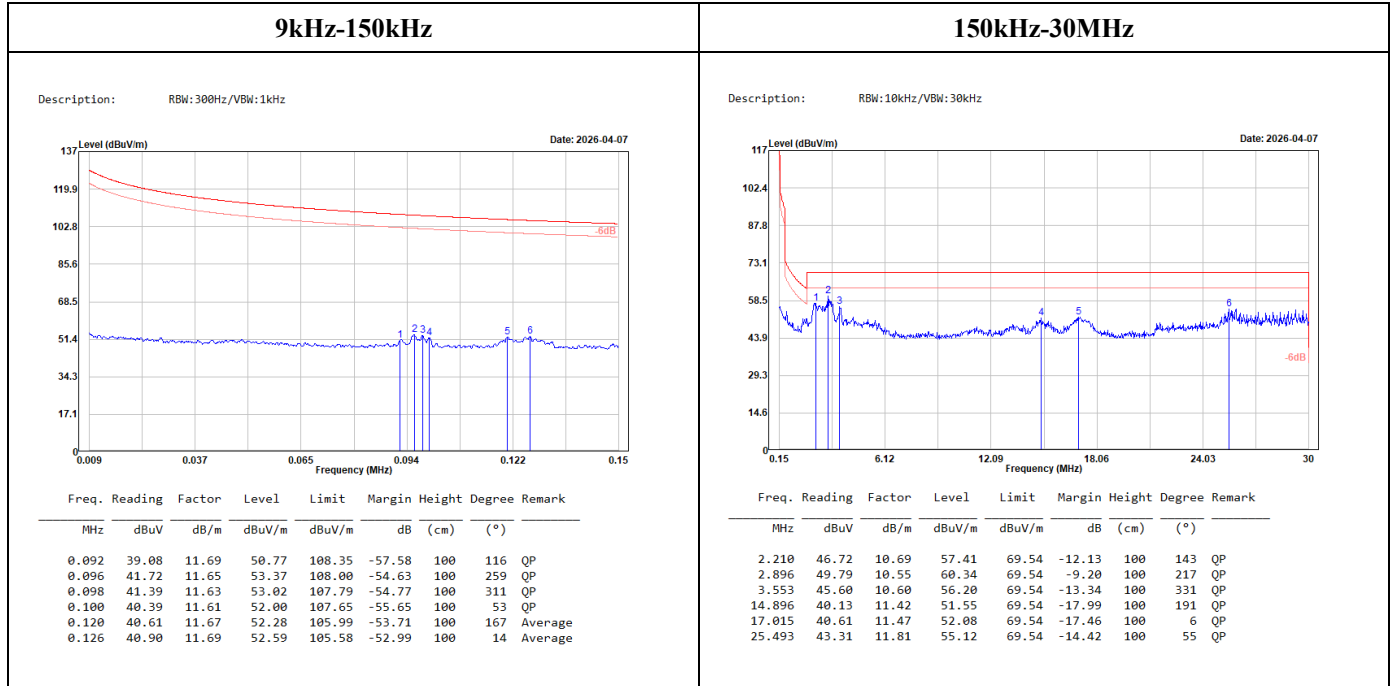
Test Mode: Transmitting

(Pre-scan with three orthogonal axis, and worse case as Z axis.)

9kHz-30MHz:

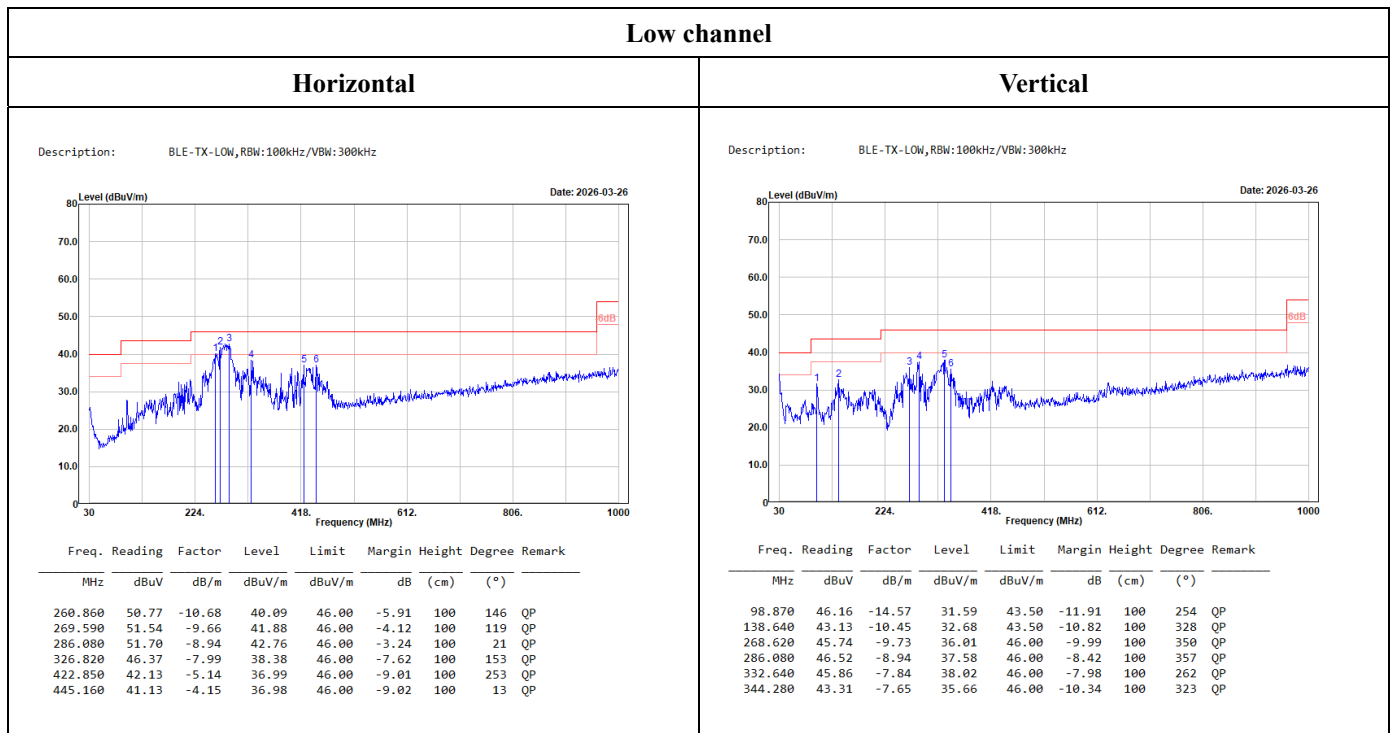
(Worst case is BLE(2M) mode, middle channel)

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



30MHz-1GHz:

Worst case is BLE(2M) mode

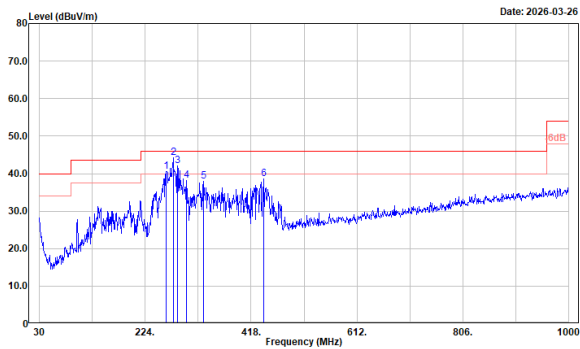


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(New Taipei Laboratory)

Middle channel

Horizontal

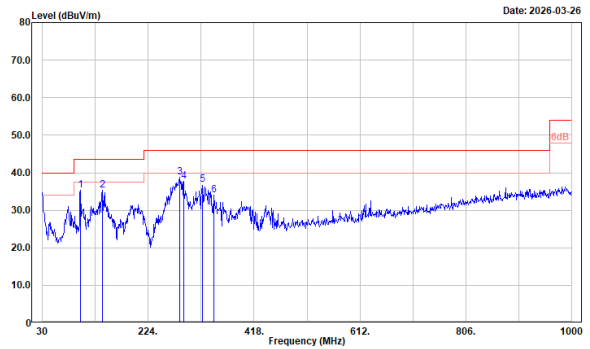
Description: BLE-TX-Middle, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
262.800	50.90	-10.37	40.53	46.00	-5.47	100	1	QP
275.410	53.51	-9.34	44.17	46.00	-1.83	100	67	QP
283.170	51.15	-9.09	42.06	46.00	-3.94	100	108	QP
299.660	46.72	-8.55	38.17	46.00	-7.83	100	59	QP
331.670	45.82	-7.85	37.97	46.00	-8.03	100	151	QP
441.280	42.99	-4.31	38.68	46.00	-7.32	100	28	QP

Vertical

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

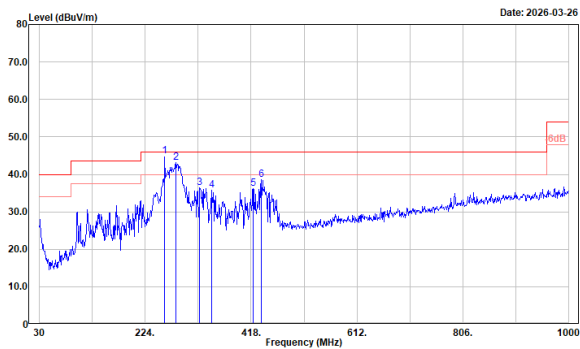


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
99.840	49.49	-14.24	35.25	43.50	-8.25	100	151	QP
140.580	45.83	-10.54	35.29	43.50	-8.21	100	319	QP
282.200	47.97	-9.14	38.83	46.00	-7.17	100	338	QP
288.990	46.57	-8.78	37.79	46.00	-8.21	100	3	QP
322.940	44.86	-8.11	36.75	46.00	-9.25	100	266	QP
344.280	41.63	-7.65	33.98	46.00	-12.02	100	297	QP

High channel

Horizontal

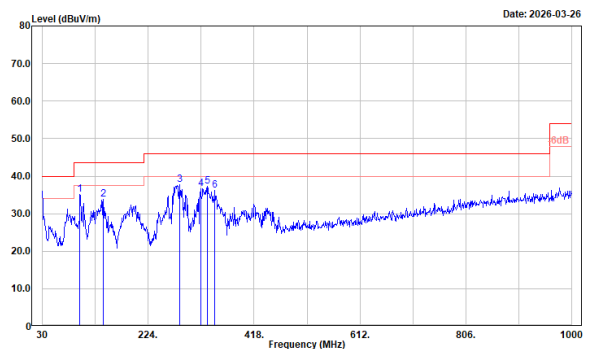
Description: BLE-TX-High, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
259.890	55.60	-10.83	44.77	46.00	-1.23	100	19	QP
280.260	52.30	-9.26	43.04	46.00	-2.96	100	80	QP
323.910	44.51	-8.09	36.42	46.00	-9.58	100	151	QP
345.250	43.35	-7.65	35.70	46.00	-10.30	100	173	QP
421.880	41.27	-5.17	36.10	46.00	-9.90	100	261	QP
436.430	43.14	-4.52	38.62	46.00	-7.38	100	8	QP

Vertical

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



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
98.870	49.61	-14.57	35.04	43.50	-8.46	100	182	QP
141.550	44.30	-10.49	33.81	43.50	-9.69	100	155	QP
281.230	46.93	-9.20	37.73	46.00	-8.27	100	320	QP
320.030	44.83	-8.18	36.65	46.00	-9.35	100	241	QP
332.640	45.20	-7.84	37.36	46.00	-8.64	100	249	QP
346.220	43.90	-7.61	36.29	46.00	-9.71	100	147	QP

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

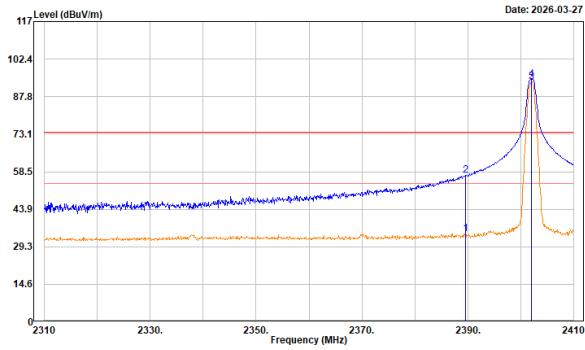
Band-Edge:

BLE(1M) Mode

Low channel

Horizontal

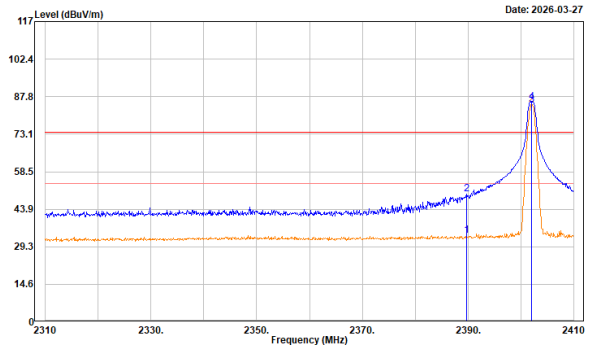
Description: BLE-1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:10kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.600	45.90	-11.50	34.40	54.00	-19.60	157	287	Average
2389.600	68.63	-11.50	57.13	74.00	-16.87	157	287	Peak
2402.000	104.99	-11.48	93.51			157	287	Average
2402.000	105.90	-11.48	94.42			157	287	Peak

Vertical

Description: BLE-1M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:10kHz

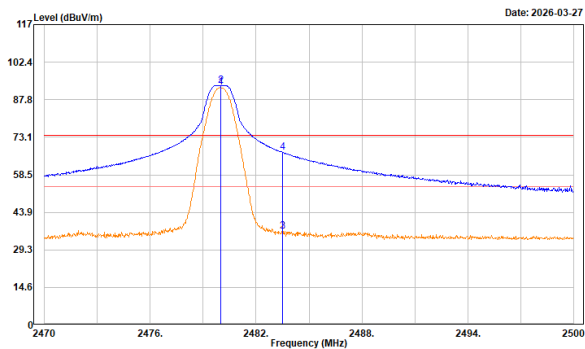


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.700	45.25	-11.50	33.75	54.00	-20.25	331	100	Average
2389.700	61.27	-11.50	49.77	74.00	-24.23	331	100	Peak
2402.000	96.14	-11.48	84.66			331	100	Average
2402.000	97.09	-11.48	85.61			331	100	Peak

High channel

Horizontal

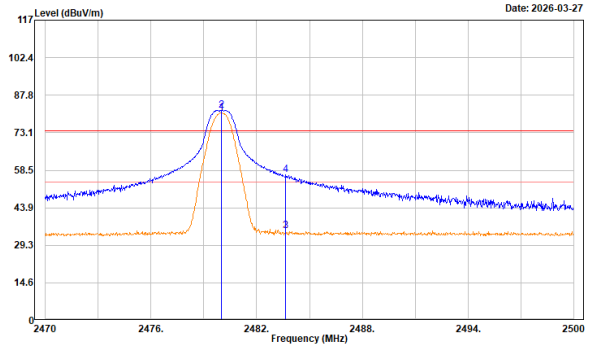
Description: BLE-1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:10kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	103.41	-10.97	92.44			169	294	Average
2480.000	104.31	-10.97	93.34			169	294	Peak
2483.500	47.44	-10.94	36.50	54.00	-17.50	169	294	Average
2483.500	78.18	-10.94	67.24	74.00	-6.76	169	294	Peak

Vertical

Description: BLE-1M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:10kHz



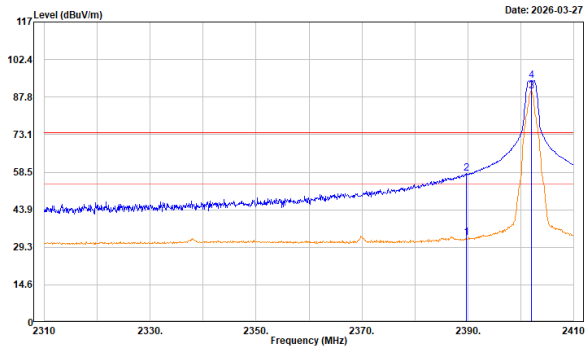
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	91.79	-10.97	80.82			316	84	Average
2480.000	92.69	-10.97	81.72			316	84	Peak
2483.650	45.70	-10.93	34.77	54.00	-19.23	316	84	Average
2483.650	67.73	-10.93	56.80	74.00	-17.20	316	84	Peak

BLE(2M) Mode

Low channel

Horizontal

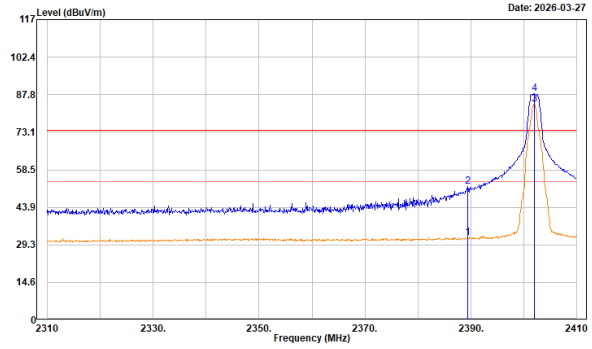
Description: BLE-2M-TX-2402,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.700	44.56	-11.50	33.06	54.00	-20.94	171	287	Average
2389.700	69.44	-11.50	57.94	74.00	-16.06	171	287	Peak
2402.000	101.52	-11.48	90.04			171	287	Average
2402.000	105.74	-11.48	94.26			171	287	Peak

Vertical

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

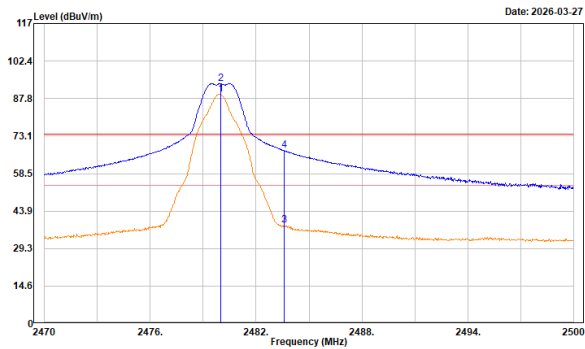


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2389.400	43.67	-11.50	32.17	54.00	-21.83	305	105	Average
2389.400	63.39	-11.50	51.89	74.00	-22.11	305	105	Peak
2402.000	95.43	-11.48	83.95			305	105	Average
2402.000	99.51	-11.48	88.03			305	105	Peak

High channel

Horizontal

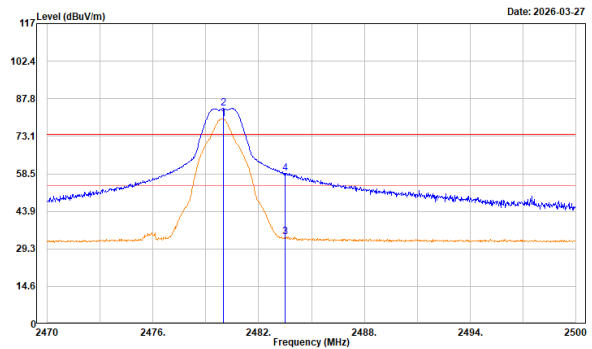
Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	100.39	-10.97	89.42			160	296	Average
2480.000	104.49	-10.97	93.52			160	296	Peak
2483.590	49.28	-10.93	38.35	54.00	-15.65	160	296	Average
2483.590	78.50	-10.93	67.57	74.00	-6.43	160	296	Peak

Vertical

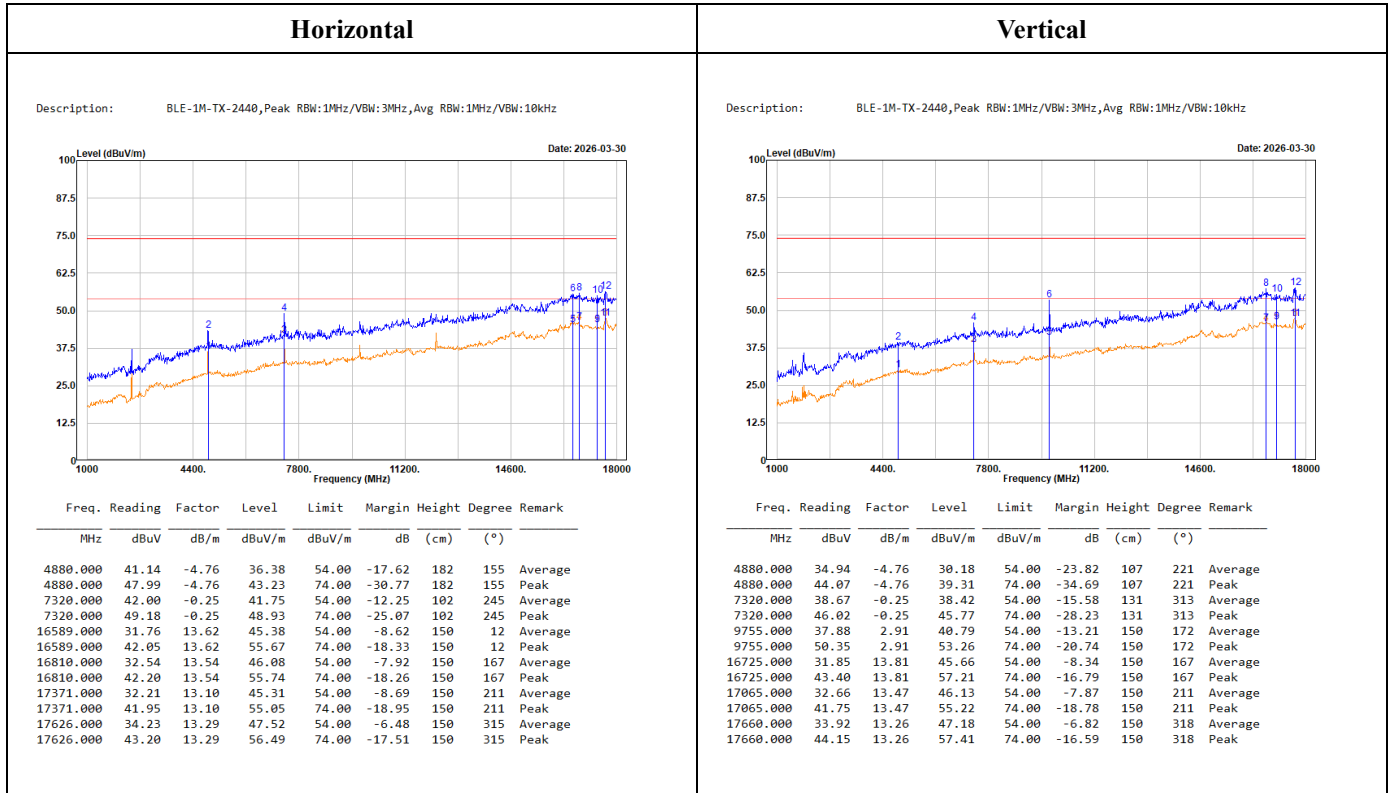
Description: BLE-2M-TX-2480,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	90.93	-10.97	79.96			392	96	Average
2480.000	94.88	-10.97	83.91			392	96	Peak
2483.500	44.88	-10.94	33.94	54.00	-20.06	392	96	Average
2483.500	69.63	-10.94	58.69	74.00	-15.31	392	96	Peak

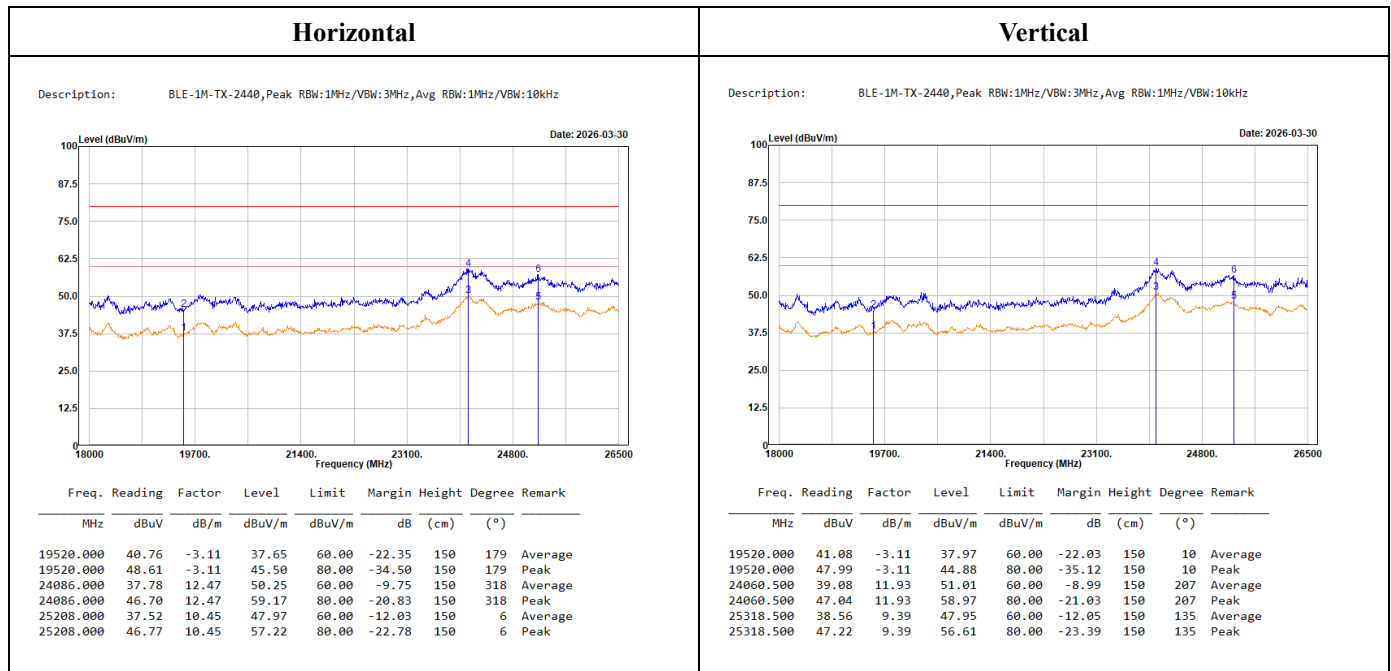
1GHz-18GHz:

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



18GHz-26.5GHz:

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



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 = $20 \log(1.5\text{m}/3\text{m}) = 6 \text{ dB}$,Average Limit = $54+6 = 60 \text{ dBuV/m}@1.5\text{m}$, Peak Limit = $60+20 = 80 \text{ dBuV/m}@1.5\text{m}$

Above 1GHz

BLE 1M Mode:

Low channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	38.98	-4.98	34.00	54.00	-20.00	170	159	Average	4804.000	34.57	-4.98	29.59	54.00	-24.41	172	166	Average
4804.000	44.16	-4.98	39.18	74.00	-34.82	170	159	Peak	4804.000	42.13	-4.98	37.15	74.00	-36.85	172	166	Peak
7206.000	42.17	-0.78	41.39	54.00	-12.61	111	303	Average	7206.000	40.20	-0.78	39.42	54.00	-14.58	101	14	Average
7206.000	48.27	-0.78	47.49	74.00	-26.51	111	303	Peak	7206.000	46.51	-0.78	45.73	74.00	-28.27	101	14	Peak
9602.000	38.88	2.67	41.55	54.00	-12.45	150	157	Average	9602.000	38.00	2.67	40.67	54.00	-13.33	150	187	Average
9602.000	53.17	2.67	55.84	74.00	-18.16	150	157	Peak	9602.000	53.71	2.67	56.38	74.00	-17.62	150	187	Peak
16062.000	32.79	11.47	44.26	54.00	-9.74	150	216	Average	14345.000	31.69	10.23	41.92	54.00	-12.08	150	154	Average
16062.000	43.42	11.47	54.89	74.00	-19.11	150	216	Peak	14345.000	44.29	10.23	54.52	74.00	-19.48	150	154	Peak
16691.000	32.54	13.82	46.36	54.00	-7.64	150	197	Average	16538.000	32.55	13.45	46.00	54.00	-8.00	150	213	Average
16691.000	42.99	13.82	56.81	74.00	-17.19	150	197	Peak	16538.000	41.96	13.45	55.41	74.00	-18.59	150	213	Peak
17643.000	33.74	13.28	47.02	54.00	-6.98	150	315	Average	17626.000	33.71	13.29	47.00	54.00	-7.00	150	142	Average
17643.000	43.78	13.28	57.06	74.00	-16.94	150	315	Peak	17626.000	43.24	13.29	56.53	74.00	-17.47	150	142	Peak

Middle channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4880.000	41.14	-4.76	36.38	54.00	-17.62	182	155	Average	4880.000	34.94	-4.76	30.18	54.00	-23.82	107	221	Average
4880.000	47.99	-4.76	43.23	74.00	-30.77	182	155	Peak	4880.000	44.07	-4.76	39.31	74.00	-34.69	107	221	Peak
7320.000	42.00	-0.25	41.75	54.00	-12.25	102	245	Average	7320.000	38.67	-0.25	38.42	54.00	-15.58	131	313	Average
7320.000	49.18	-0.25	48.93	74.00	-25.07	102	245	Peak	7320.000	46.02	-0.25	45.77	74.00	-28.23	131	313	Peak
16589.000	31.76	13.62	45.38	54.00	-8.62	150	12	Average	9755.000	37.88	2.91	40.79	54.00	-13.21	150	172	Average
16589.000	42.05	13.62	55.67	74.00	-18.33	150	12	Peak	9755.000	50.35	2.91	53.26	74.00	-20.74	150	172	Peak
16810.000	32.54	13.54	46.08	54.00	-7.92	150	167	Average	16725.000	31.85	13.81	45.66	54.00	-8.34	150	167	Average
16810.000	42.20	13.54	55.74	74.00	-18.26	150	167	Peak	16725.000	43.40	13.81	57.21	74.00	-16.79	150	167	Peak
17371.000	32.21	13.10	45.31	54.00	-8.69	150	211	Average	17065.000	32.66	13.47	46.13	54.00	-7.87	150	211	Average
17371.000	41.95	13.10	55.05	74.00	-18.95	150	211	Peak	17065.000	41.75	13.47	55.22	74.00	-18.78	150	211	Peak
17626.000	34.23	13.29	47.52	54.00	-6.48	150	315	Average	17660.000	33.92	13.26	47.18	54.00	-6.82	150	318	Average
17626.000	43.20	13.29	56.49	74.00	-17.51	150	315	Peak	17660.000	44.15	13.26	57.41	74.00	-16.59	150	318	Peak

High channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4960.000	39.12	-4.78	34.34	54.00	-19.66	135	154	Average	4960.000	34.32	-4.78	29.54	54.00	-24.46	105	234	Average
4960.000	49.48	-4.78	44.70	74.00	-29.30	135	154	Peak	4960.000	44.14	-4.78	39.36	74.00	-34.64	105	234	Peak
7440.000	43.00	-0.27	42.73	54.00	-11.27	106	215	Average	7440.000	40.60	-0.27	40.33	54.00	-13.67	118	16	Average
7440.000	50.38	-0.27	50.11	74.00	-23.89	106	215	Peak	7440.000	48.22	-0.27	47.95	74.00	-26.05	118	16	Peak
9925.000	39.29	2.87	42.16	54.00	-11.84	150	187	Average	9925.000	40.10	2.87	42.97	54.00	-11.03	150	172	Average
9925.000	47.21	2.87	50.08	74.00	-23.92	150	187	Peak	9925.000	47.79	2.87	50.66	74.00	-23.34	150	172	Peak
16657.000	32.38	13.76	46.14	54.00	-7.86	150	221	Average	16640.000	32.14	13.73	45.87	54.00	-8.13	150	312	Average
16657.000	42.58	13.76	56.34	74.00	-17.66	150	221	Peak	16640.000	42.74	13.73	56.47	74.00	-17.53	150	312	Peak
16827.000	32.76	13.42	46.18	54.00	-7.82	150	314	Average	16997.000	32.42	13.06	45.48	54.00	-8.52	150	221	Average
16827.000	43.26	13.42	56.68	74.00	-17.32	150	314	Peak	16997.000	42.77	13.06	55.83	74.00	-18.17	150	221	Peak
17660.000	32.46	13.26	45.72	54.00	-8.28	150	268	Average	17626.000	33.78	13.29	47.07	54.00	-6.93	150	67	Average
17660.000	43.28	13.26	56.54	74.00	-17.46	150	268	Peak	17626.000	43.27	13.29	56.56	74.00	-17.44	150	67	Peak

BLE 2M Mode:

Low channel															
Horizontal								Vertical							
Freq. Reading Factor Level Limit Margin Height Degree Remark								Freq. Reading Factor Level Limit Margin Height Degree Remark							
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4804.000	33.86	-4.98	28.88	54.00	-25.12	182	2 Average	4804.000	33.42	-4.98	28.44	54.00	-25.56	164	197 Average
4804.000	43.37	-4.98	38.39	74.00	-35.61	182	2 Peak	4804.000	42.40	-4.98	37.42	74.00	-36.58	164	197 Peak
7206.000	40.71	-0.78	39.93	54.00	-14.07	119	307 Average	7206.000	38.64	-0.78	37.86	54.00	-16.14	101	15 Average
7206.000	47.69	-0.78	46.91	74.00	-27.09	119	307 Peak	7206.000	46.48	-0.78	45.70	74.00	-28.30	101	15 Peak
9602.000	44.48	2.67	47.15	54.00	-6.85	150	116 Average	9602.000	39.57	2.67	42.24	54.00	-11.76	150	138 Average
9602.000	52.89	2.67	55.56	74.00	-18.44	150	116 Peak	9602.000	53.18	2.67	55.85	74.00	-18.15	150	138 Peak
16487.000	31.84	13.08	44.92	54.00	-9.08	150	187 Average	16589.000	32.26	13.62	45.88	54.00	-8.12	150	117 Average
16487.000	42.26	13.08	55.34	74.00	-18.66	150	187 Peak	16589.000	42.24	13.62	55.86	74.00	-18.14	150	117 Peak
16742.000	30.94	13.79	44.73	54.00	-9.27	150	348 Average	16793.000	31.26	13.64	44.90	54.00	-9.10	150	21 Average
16742.000	41.98	13.79	55.77	74.00	-18.23	150	348 Peak	16793.000	43.58	13.64	57.22	74.00	-16.78	150	21 Peak
17643.000	32.71	13.28	45.99	54.00	-8.01	150	91 Average	17643.000	32.73	13.28	46.01	54.00	-7.99	150	317 Average
17643.000	43.03	13.28	56.31	74.00	-17.69	150	91 Peak	17643.000	44.81	13.28	58.09	74.00	-15.91	150	317 Peak

Middle channel															
Horizontal								Vertical							
Freq. Reading Factor Level Limit Margin Height Degree Remark								Freq. Reading Factor Level Limit Margin Height Degree Remark							
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4880.000	36.80	-4.76	32.04	54.00	-21.96	134	151 Average	4880.000	33.26	-4.76	28.50	54.00	-25.50	187	223 Average
4880.000	45.31	-4.76	40.55	74.00	-33.45	134	151 Peak	4880.000	43.35	-4.76	38.59	74.00	-35.41	187	223 Peak
7320.000	42.18	-0.25	41.93	54.00	-12.07	116	307 Average	7320.000	37.58	-0.25	37.33	54.00	-16.67	103	2 Average
7320.000	50.82	-0.25	50.57	74.00	-23.43	116	307 Peak	7320.000	45.47	-0.25	45.22	74.00	-28.78	103	2 Peak
9755.000	43.37	2.91	46.28	54.00	-7.72	150	181 Average	9755.000	43.57	2.91	46.48	54.00	-7.52	150	184 Average
9755.000	52.93	2.91	55.84	74.00	-18.16	150	181 Peak	9755.000	50.80	2.91	53.71	74.00	-20.29	150	184 Peak
16198.000	32.24	11.74	43.98	54.00	-10.02	150	315 Average	16606.000	30.14	13.66	43.80	54.00	-10.20	150	15 Average
16198.000	44.06	11.74	55.80	74.00	-18.20	150	315 Peak	16606.000	41.55	13.66	55.21	74.00	-18.79	150	15 Peak
16844.000	31.64	13.29	44.93	54.00	-9.07	150	172 Average	17048.000	31.56	13.36	44.92	54.00	-9.08	150	331 Average
16844.000	43.61	13.29	56.90	74.00	-17.10	150	172 Peak	17048.000	41.72	13.36	55.08	74.00	-18.92	150	331 Peak
17660.000	32.57	13.26	45.83	54.00	-8.17	150	166 Average	17609.000	32.77	13.30	46.07	54.00	-7.93	150	57 Average
17660.000	44.12	13.26	57.38	74.00	-16.62	150	166 Peak	17609.000	41.90	13.30	55.20	74.00	-18.80	150	57 Peak

High channel															
Horizontal								Vertical							
Freq. Reading Factor Level Limit Margin Height Degree Remark								Freq. Reading Factor Level Limit Margin Height Degree Remark							
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4960.000	38.84	-4.78	34.06	54.00	-19.94	168	184 Average	4960.000	34.84	-4.78	30.06	54.00	-23.94	157	221 Average
4960.000	47.83	-4.78	43.05	74.00	-30.95	168	184 Peak	4960.000	43.72	-4.78	38.94	74.00	-35.06	157	221 Peak
7440.000	42.59	-0.27	42.32	54.00	-11.68	139	211 Average	7440.000	40.15	-0.27	39.88	54.00	-14.12	396	315 Average
7440.000	48.95	-0.27	48.68	74.00	-25.32	139	211 Peak	7440.000	47.69	-0.27	47.42	74.00	-26.58	396	315 Peak
9925.000	39.92	2.87	42.79	54.00	-11.21	150	172 Average	16198.000	32.28	11.74	44.02	54.00	-9.98	150	134 Average
9925.000	48.03	2.87	50.90	74.00	-23.10	150	172 Peak	16198.000	43.26	11.74	55.00	74.00	-19.00	150	134 Peak
16725.000	31.05	13.81	44.86	54.00	-9.14	150	233 Average	16742.000	31.05	13.79	44.84	54.00	-9.16	150	118 Average
16725.000	42.53	13.81	56.34	74.00	-17.66	150	233 Peak	16742.000	42.59	13.79	56.38	74.00	-17.62	150	118 Peak
17252.000	31.04	13.38	44.42	54.00	-9.58	150	209 Average	16912.000	31.18	12.97	44.15	54.00	-9.85	150	208 Average
17252.000	42.07	13.38	55.45	74.00	-18.55	150	209 Peak	16912.000	41.94	12.97	54.91	74.00	-19.09	150	208 Peak
17609.000	32.72	13.30	46.02	54.00	-7.98	150	117 Average	17643.000	32.58	13.28	45.86	54.00	-8.14	150	99 Average
17609.000	42.97	13.30	56.27	74.00	-17.73	150	117 Peak	17643.000	42.98	13.28	56.26	74.00	-17.74	150	99 Peak

Note:

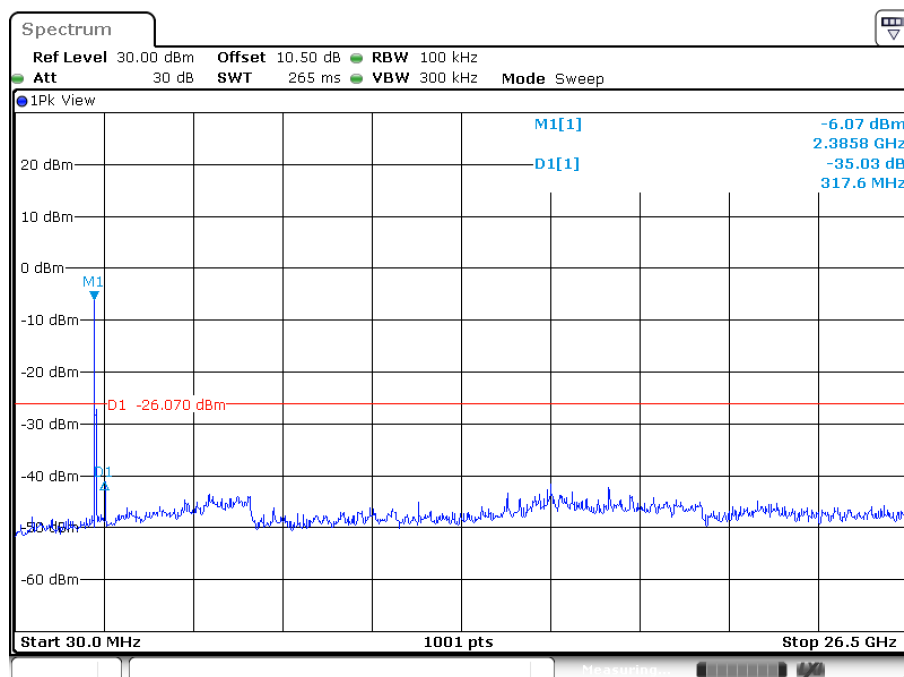
Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

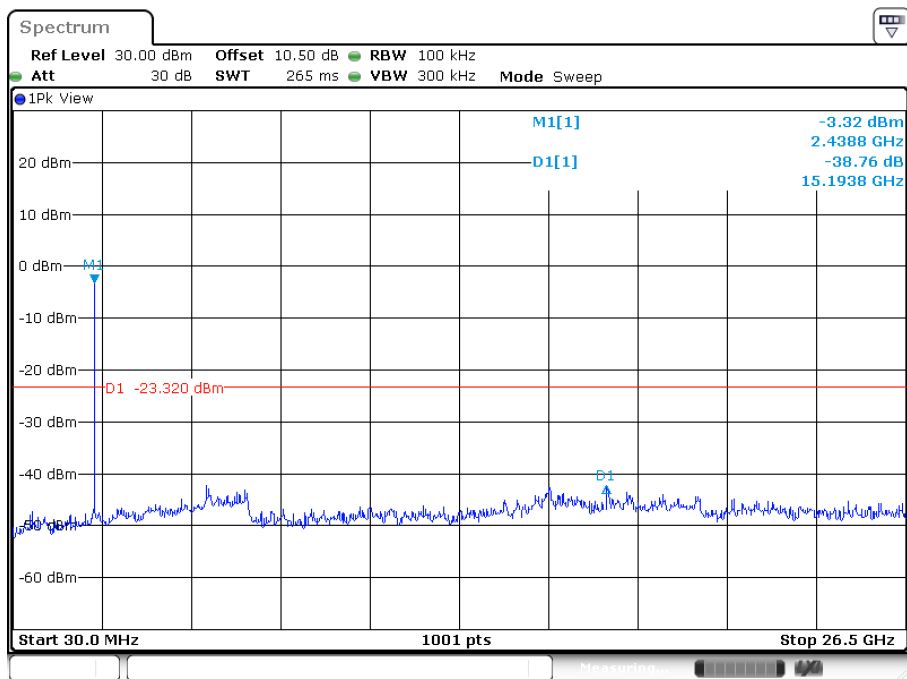
Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	35.03	≥ 20	PASS
Mid	2440	38.76	≥ 20	PASS
High	2480	37.31	≥ 20	PASS
BLE(2M) Mode				
Low	2402	35.22	≥ 20	PASS
Mid	2440	34.01	≥ 20	PASS
High	2480	39.00	≥ 20	PASS

BLE(1M) Mode**Low Channel**

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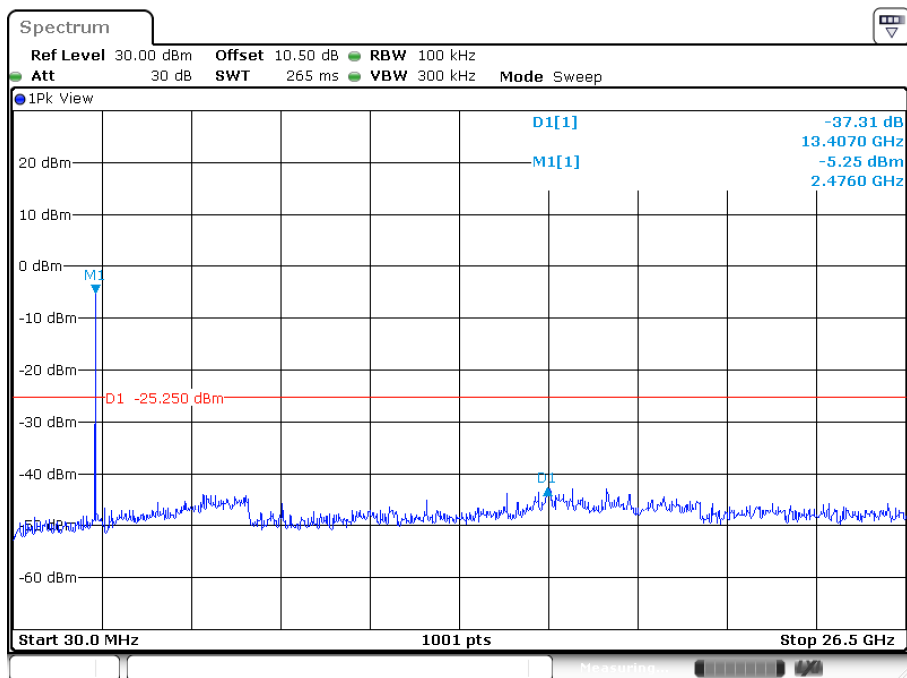
Middle Channel



ProjectNo.:RXZ260319064 Tester:Sean

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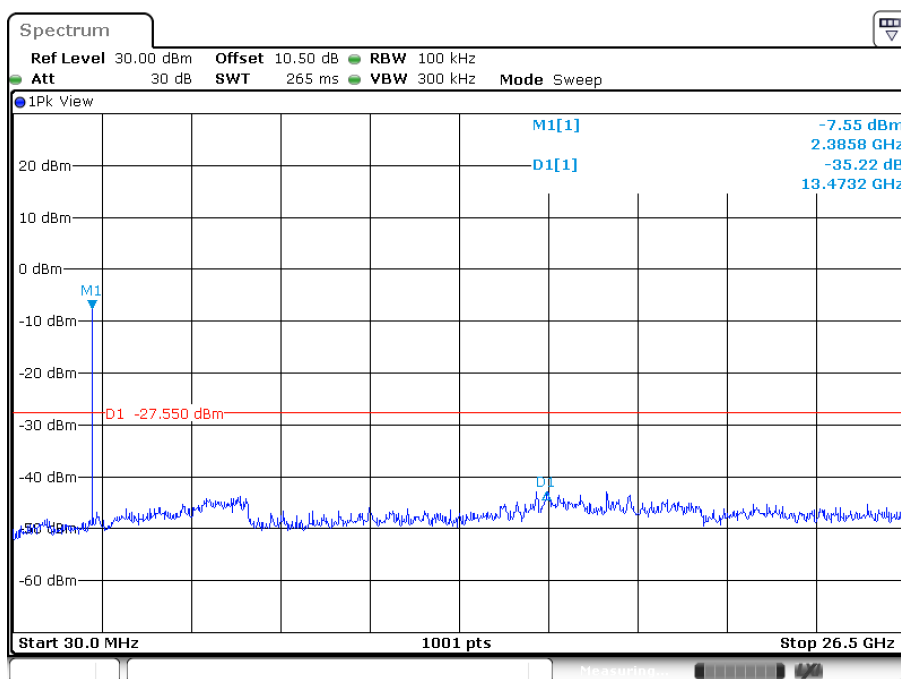
High Channel



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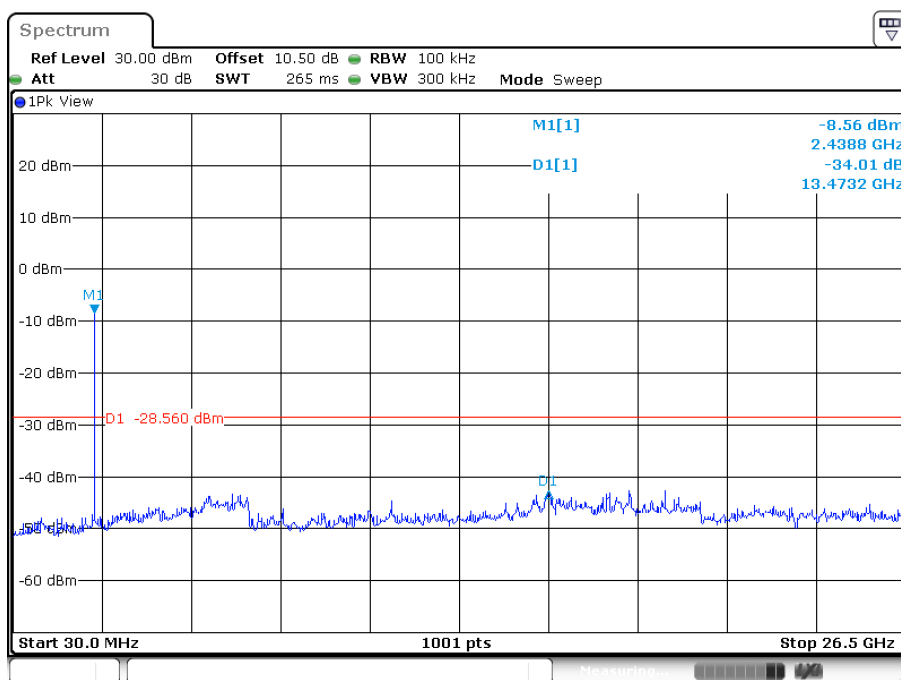
Date: 2.APR.2026 15:35:29

BLE(2M) Mode Low Channel



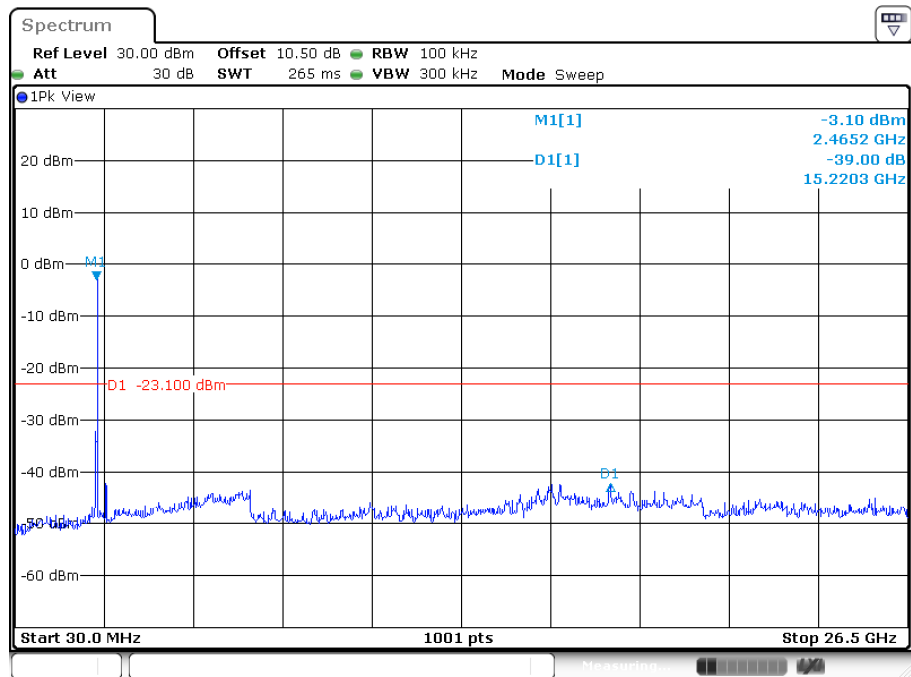
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Middle Channel



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Date: 2.APR.2026 15:40:07

High Channel



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

7.1 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.

7.2 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 $\geq [3 \times \text{RBW}]$.
- 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).

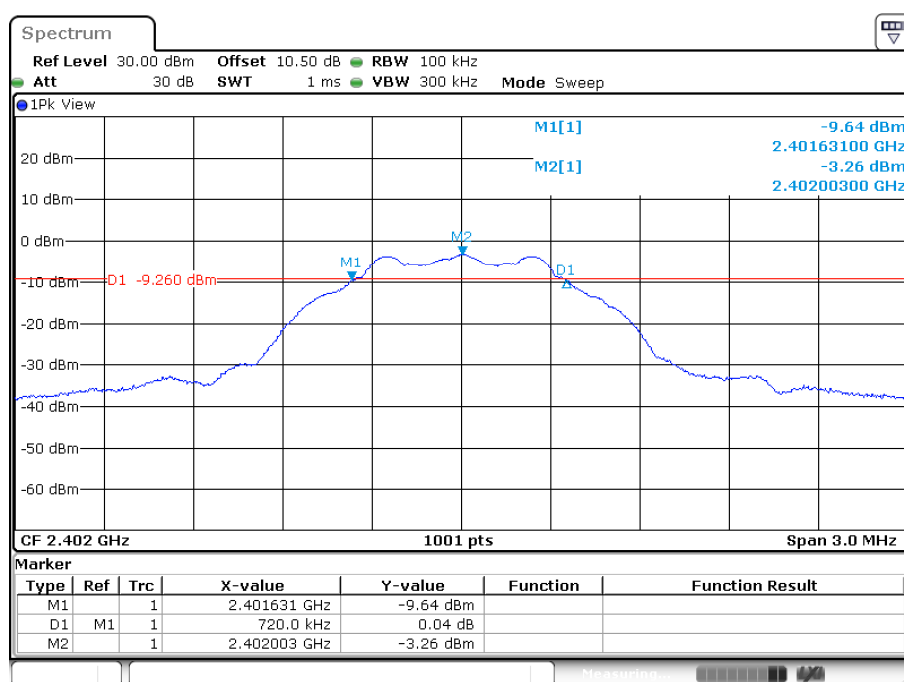
7.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (kHz)	Result
BLE(1M) Mode					
Low	2402	0.72	1.05	> 500	PASS
Middle	2440	0.72	1.17	> 500	PASS
High	2480	0.72	1.05	> 500	PASS
BLE(2M) Mode					
Low	2402	1.19	2.06	> 500	PASS
Middle	2440	1.19	2.12	> 500	PASS
High	2480	1.19	2.07	> 500	PASS

Please refer to the following plots

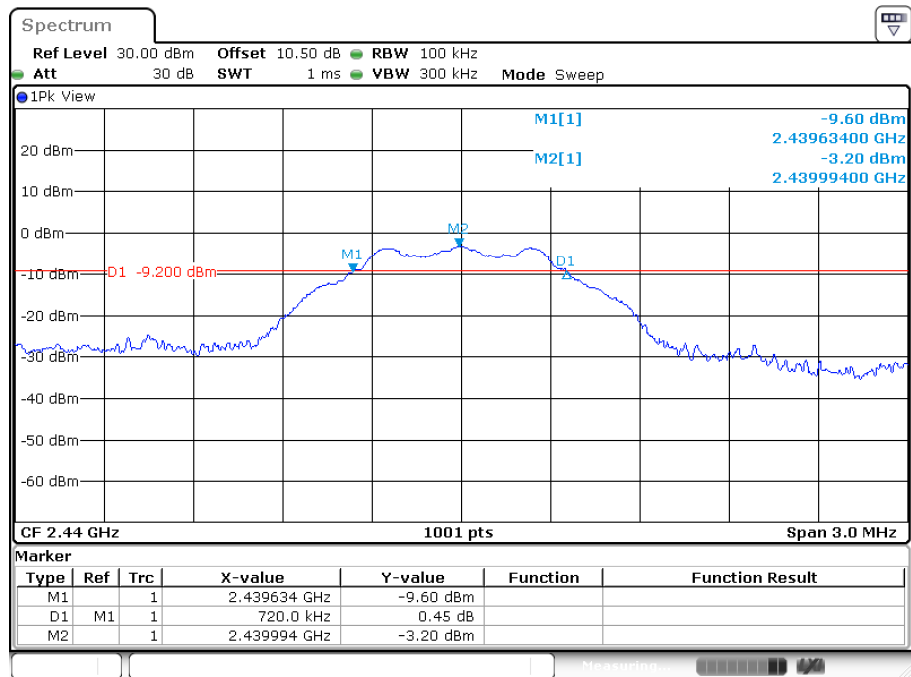
6 dB Emission Bandwidth

BLE(1M) Mode Low Channel

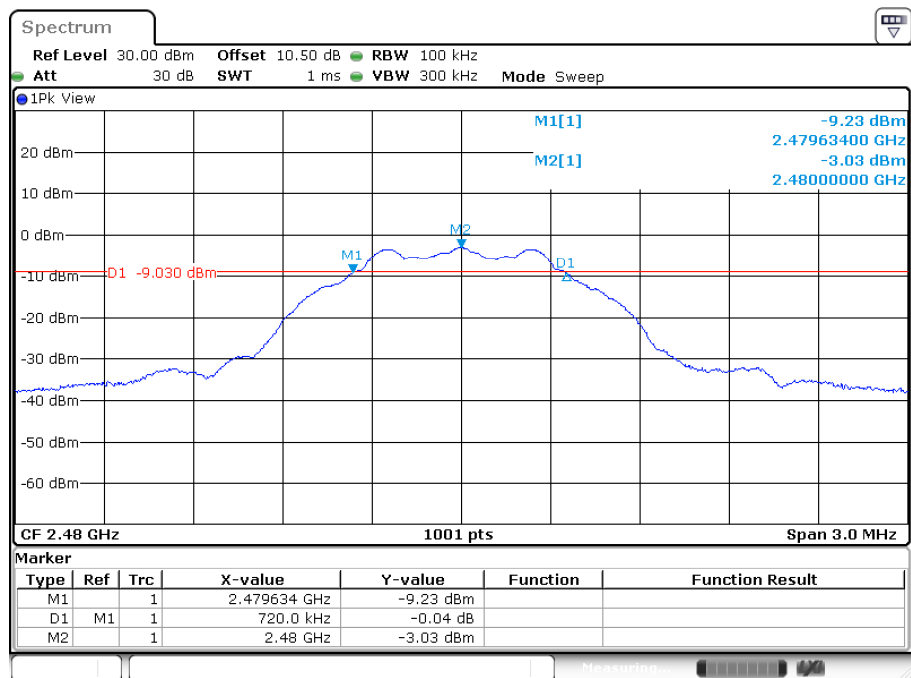


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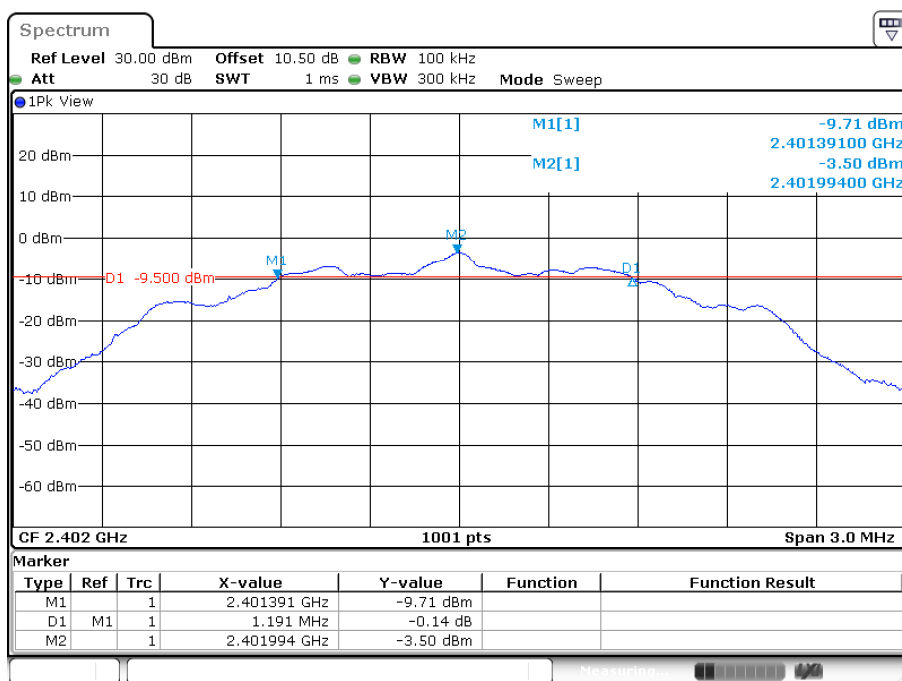
Middle Channel



High Channel



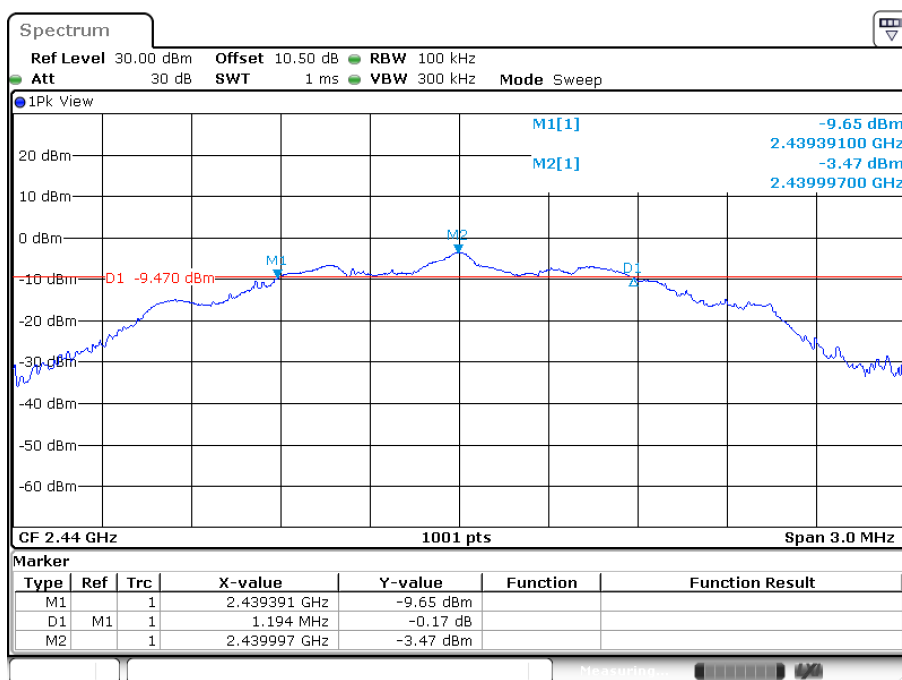
BLE(2M) Mode Low Channel



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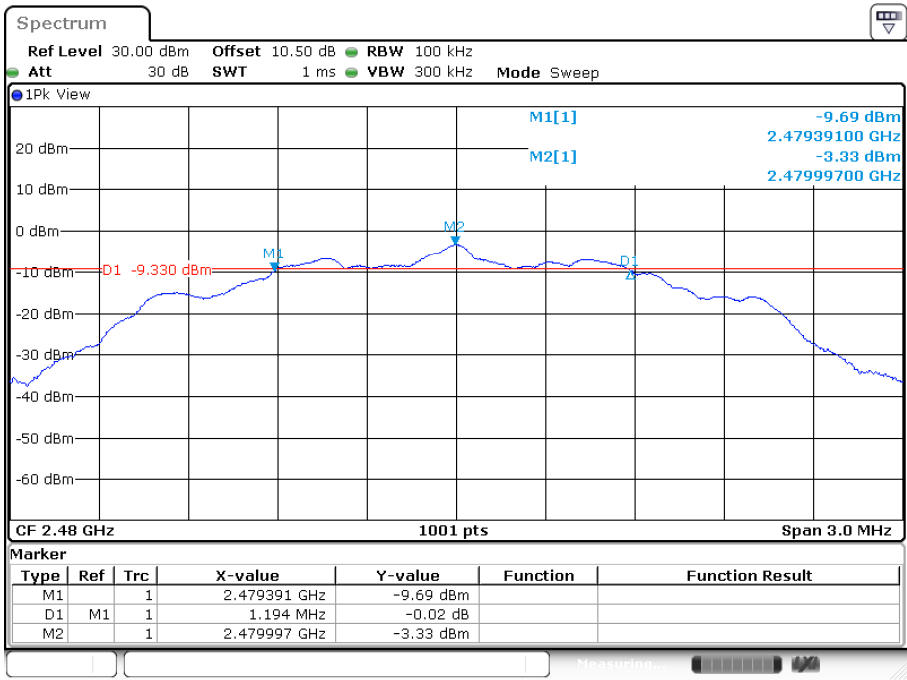
Middle Channel



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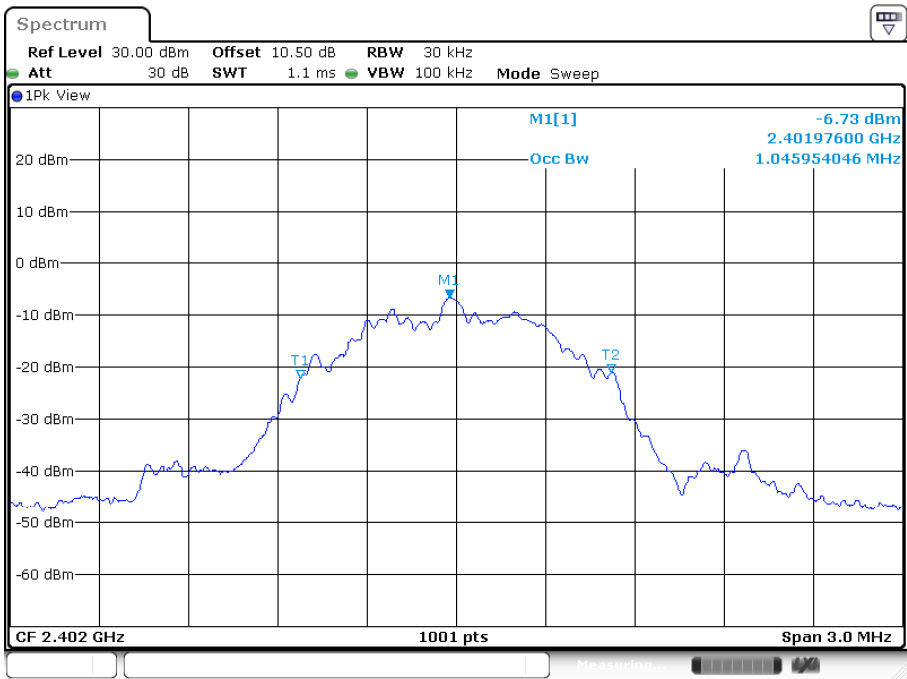
Date: 2.APR.2026 15:39:21

High Channel

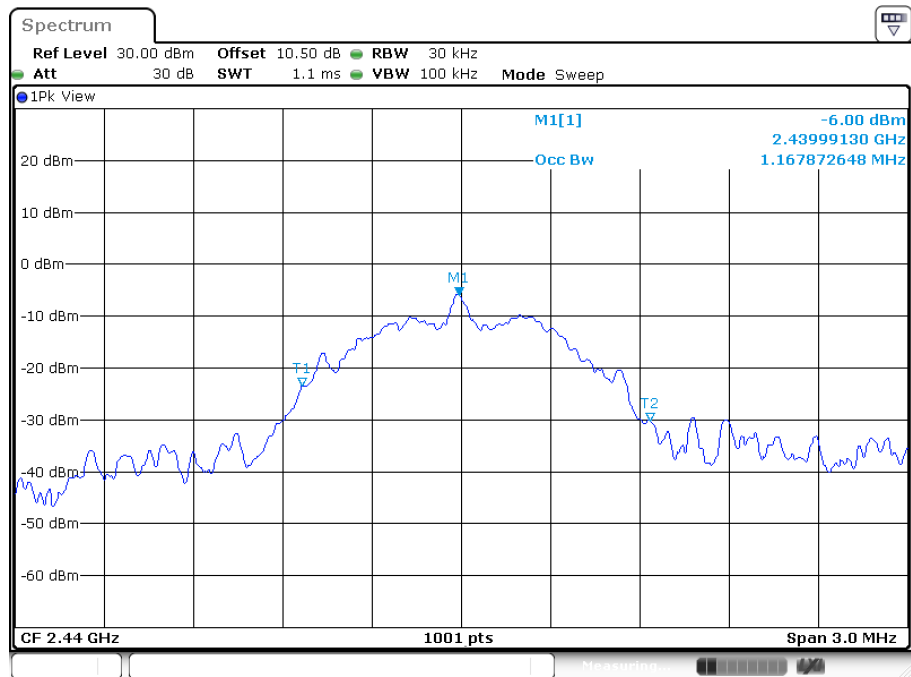


99% Bandwidth

BLE(1M) Mode
Low Channel



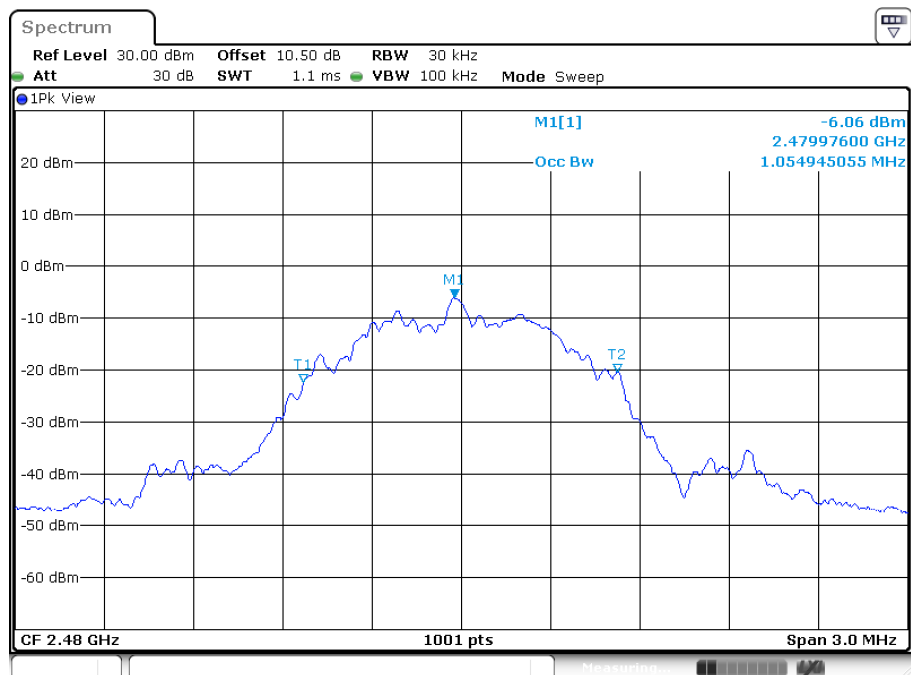
Middle Channel



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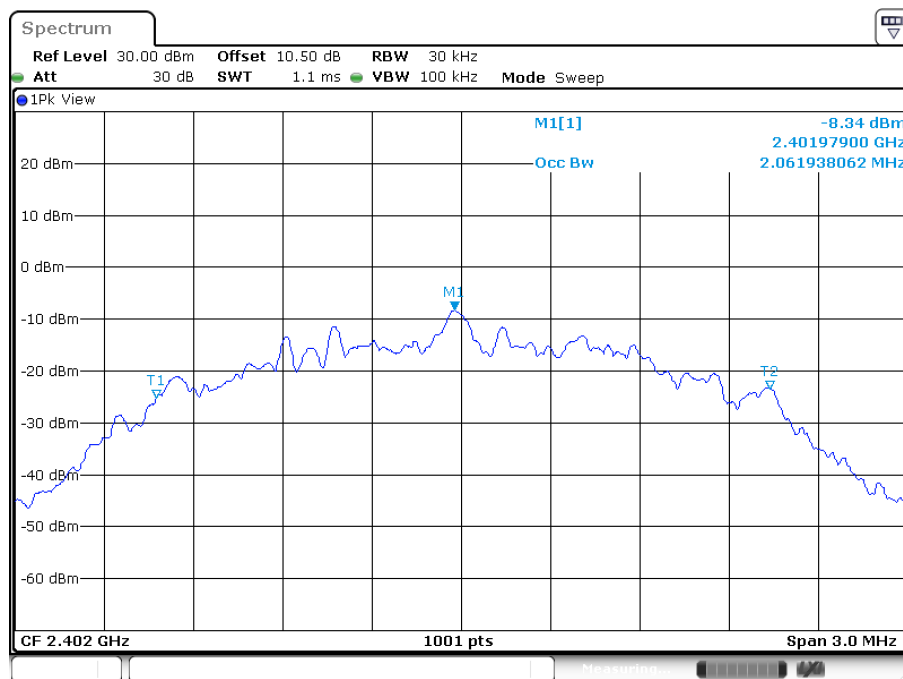
High Channel



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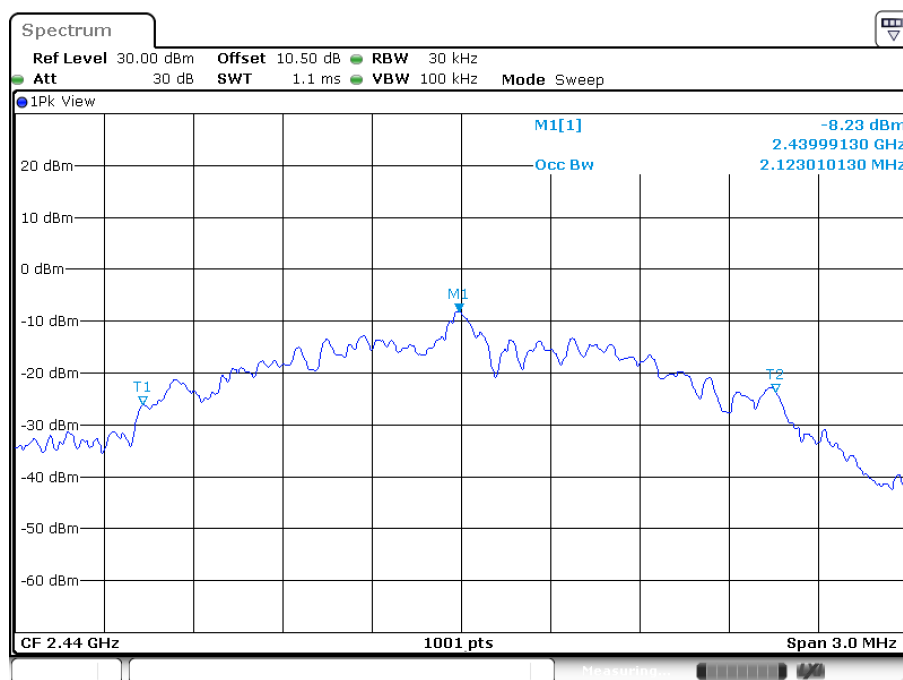
Date: 2.APR.2026 15:33:33

BLE(2M) Mode Low Channel



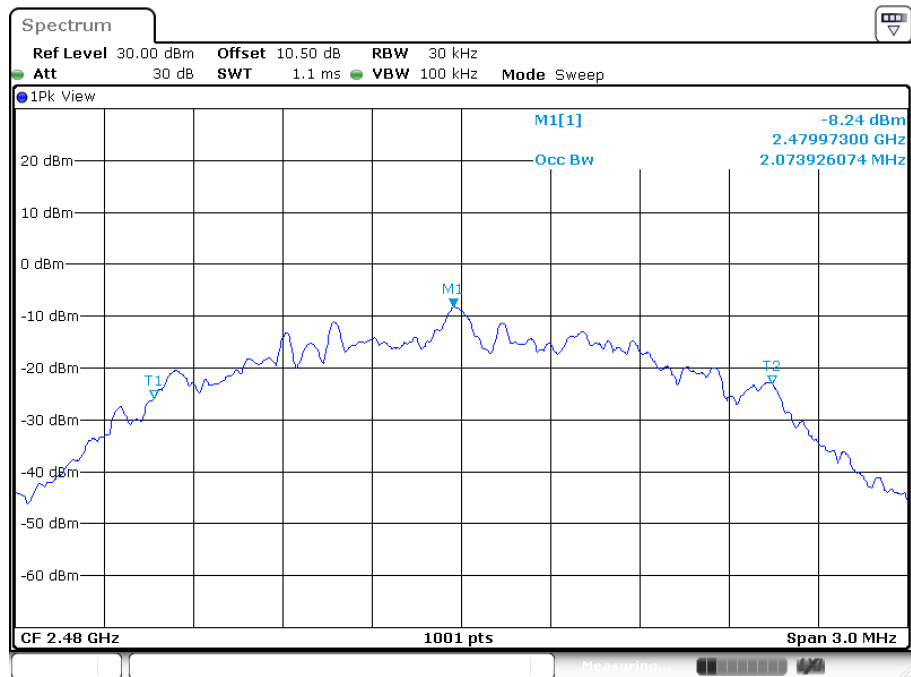
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Middle Channel



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High Channel



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

8.1 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.

8.2 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.

8.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE(1M) Mode				
Low	2402	-4.27	30	PASS
Middle	2440	-3.72	30	PASS
High	2480	-3.83	30	PASS
BLE(2M) Mode				
Low	2402	-4.32	30	PASS
Middle	2440	-3.55	30	PASS
High	2480	-3.59	30	PASS

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

9.1 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)).

9.2 Test Procedure

According to ANSI C63.10-2020 Section 11.11.3

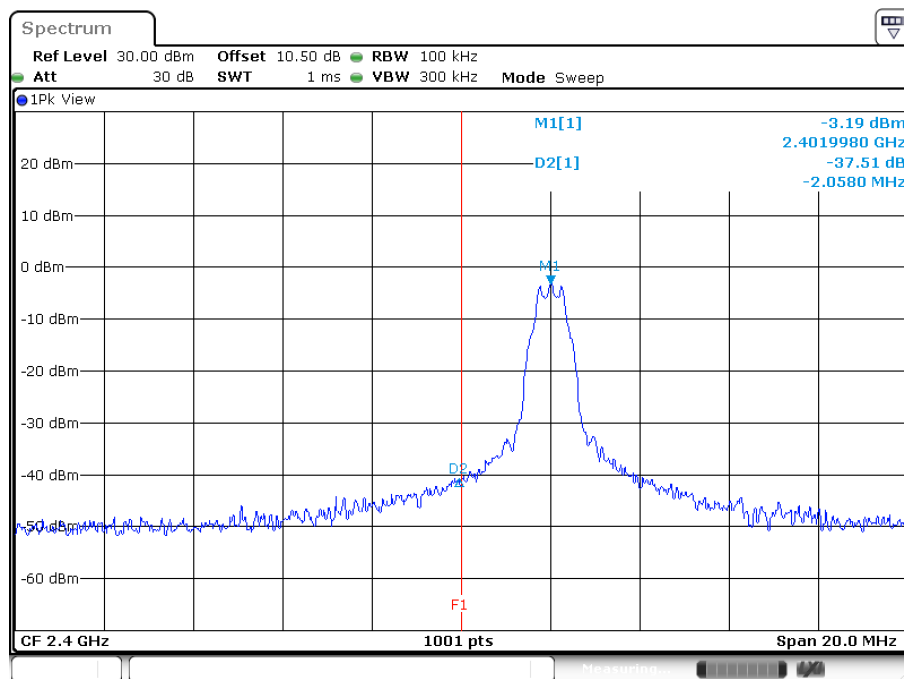
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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.

9.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	37.51	≥ 20	PASS
High	2480	40.18	≥ 20	PASS
BLE(2M) Mode				
Low	2402	31.47	≥ 20	PASS
High	2480	40.70	≥ 20	PASS

Please refer to the following plots.

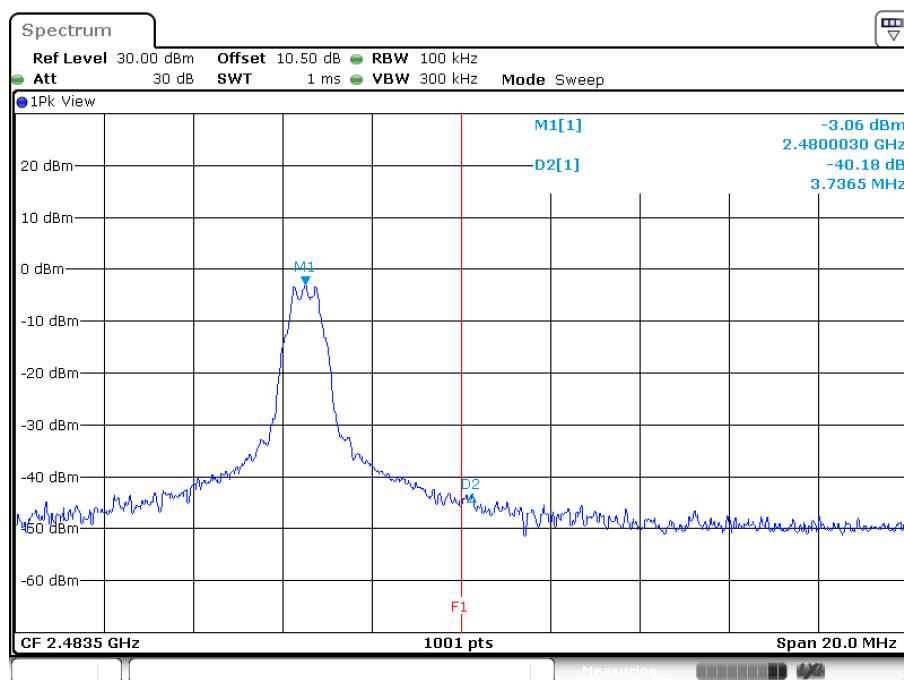
BLE(1M) Mode Band Edge, Low Channel



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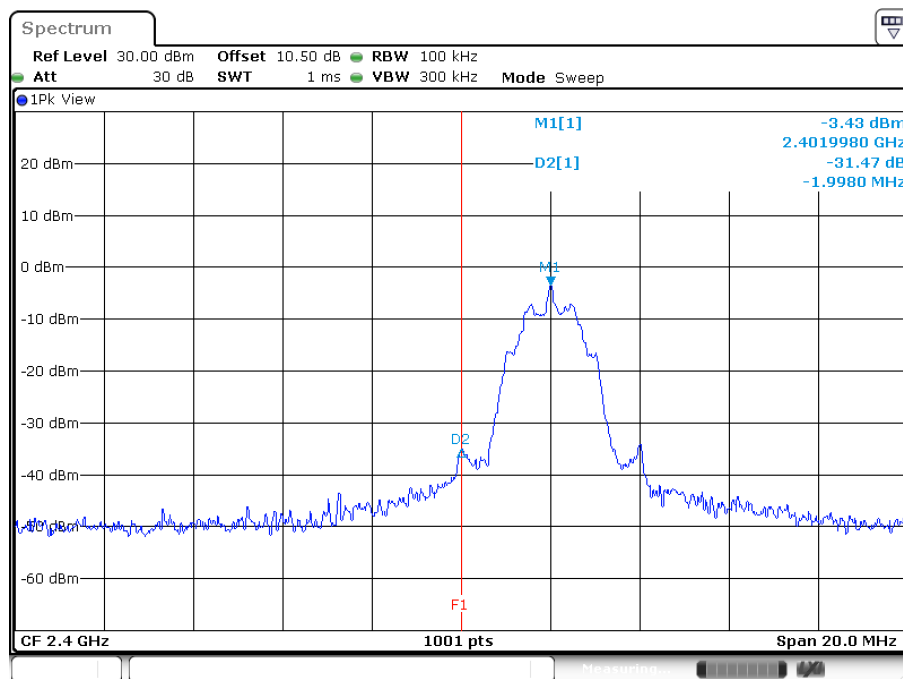
Band Edge, High Channel



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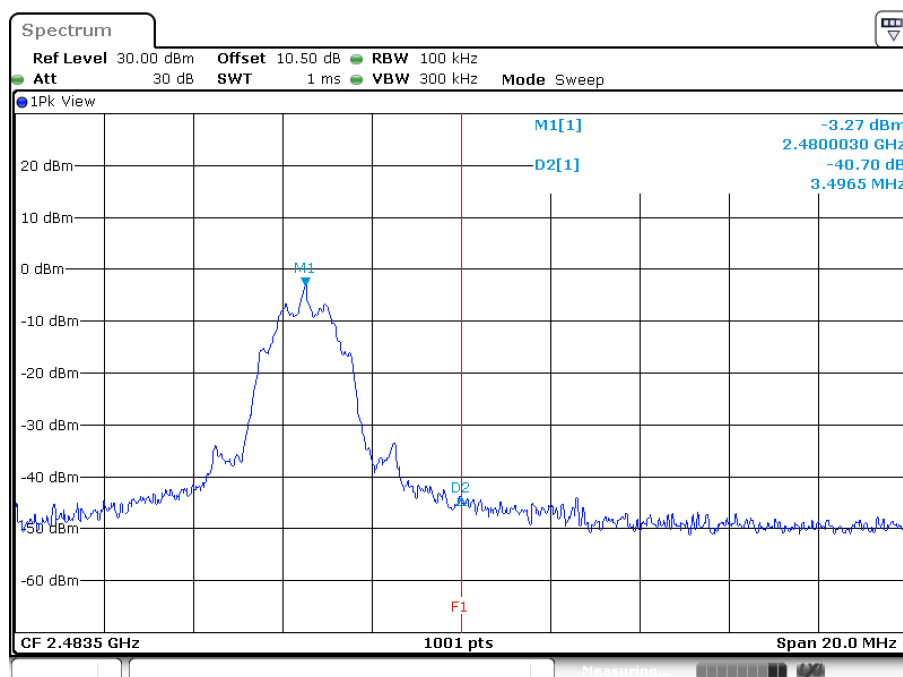
Date: 2.APR.2026 15:33:52

BLE(2M) Mode Band Edge, Low Channel



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Band Edge, High Channel



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10 FCC §15.247(e) – Power Spectral Density

10.1 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.

10.2 Test Procedure

According to ANSI C63.10-2020, section 11.10.2

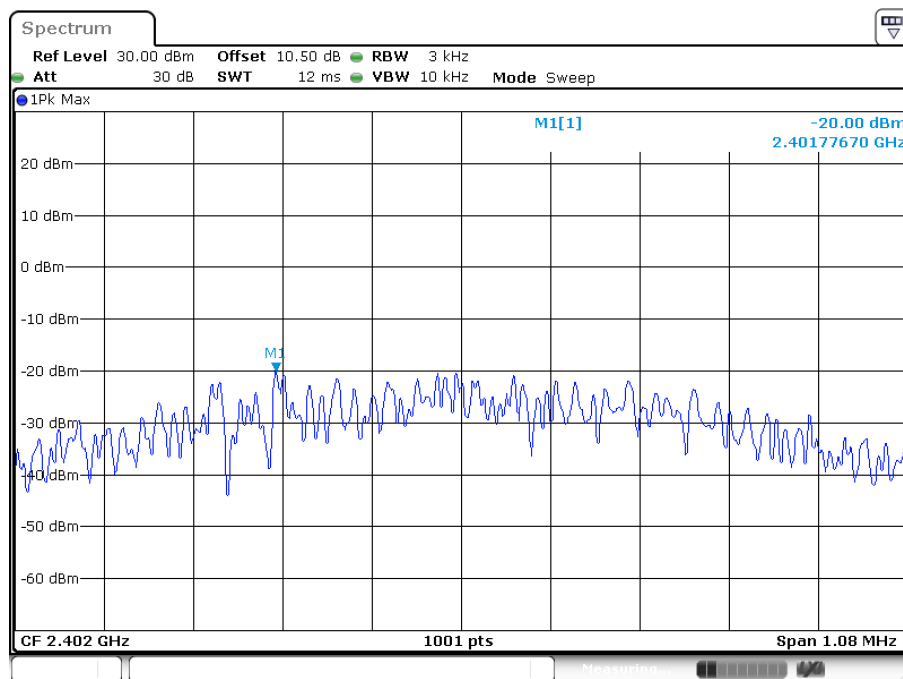
- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

10.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE(1M) Mode				
Low	2402	-20.00	8	PASS
Middle	2440	-20.02	8	PASS
High	2480	-19.78	8	PASS
BLE(2M) Mode				
Low	2402	-23.38	8	PASS
Middle	2440	-23.05	8	PASS
High	2480	-23.33	8	PASS

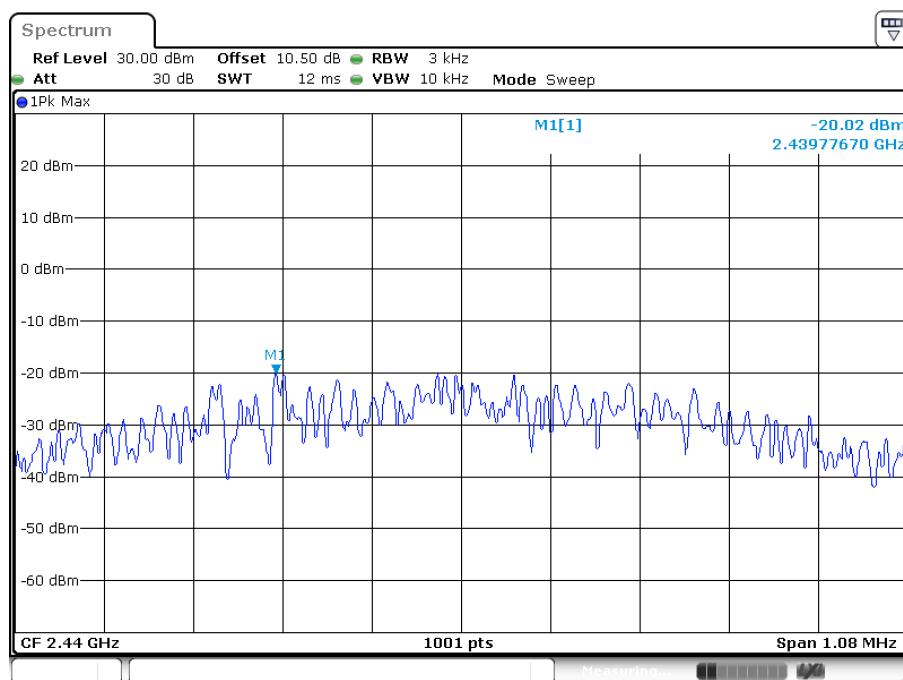
Please refer to the following plots

BLE(1M) Mode Low Channel



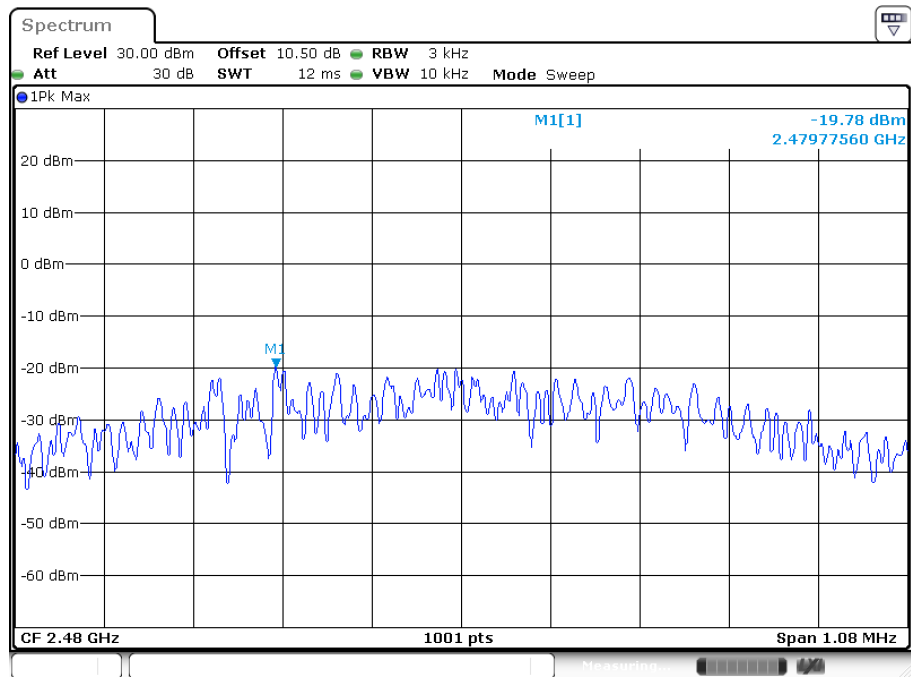
ProjectNo.:RXZ260319064 Tester:Sean
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Middle Channel



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High Channel

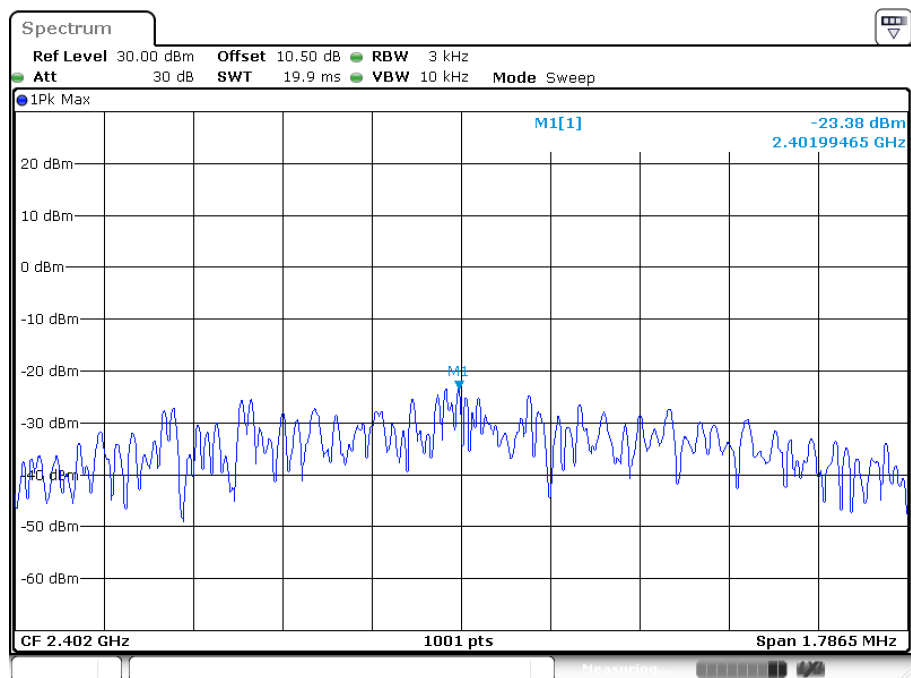


ProjectNo.:RXZ260319064 Tester:Sean

Date: 2.APR.2026 15:33:15

BLE(2M) Mode

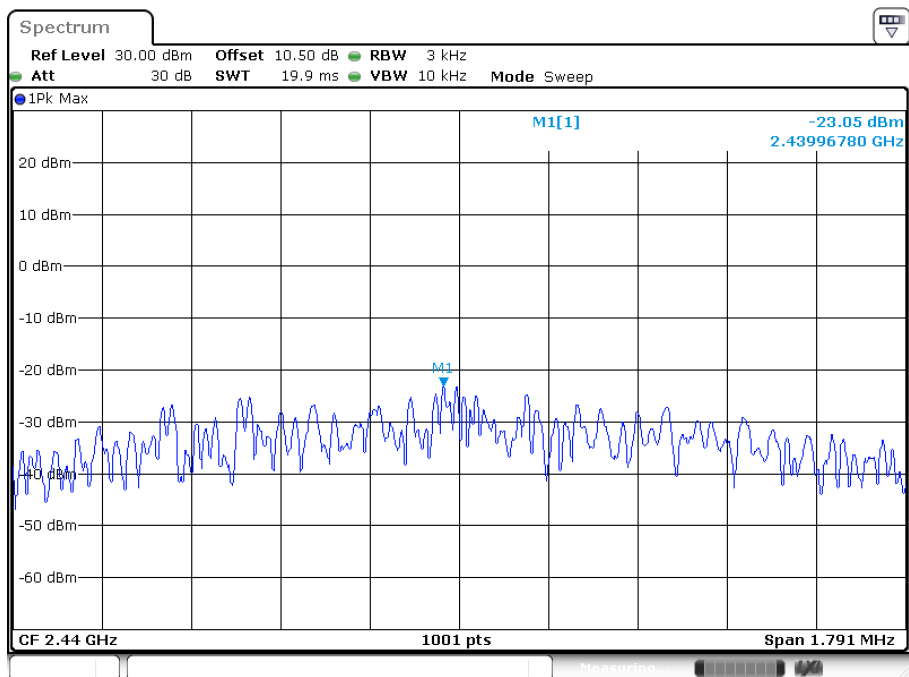
Low Channel



ProjectNo.:RXZ260319064 Tester:Sean

Date: 2.APR.2026 15:41:33

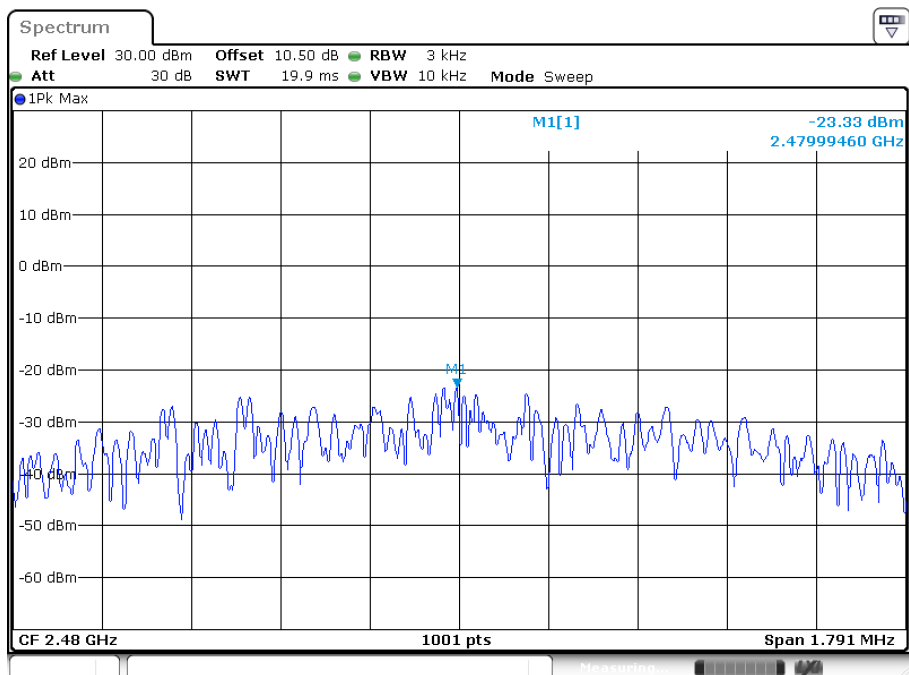
Middle Channel



ProjectNo.:RXZ260319064 Tester:Sean

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High Channel



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***** END OF REPORT *****