

FCC Part 15.247

TEST REPORT

For

EWIC PHILIPPINES INC.

**BLDG NOS 7&8 S BLK 2 LOT 2 EZP WAREHOUSE, LAGUNA TECHNOPARK
ANNEX, BARANGAY BO BINAN, BINAN, PHILIPPINES**

FCC ID: 2BLTA-RD1BN

Report Type: Original Report	Product Type: Access Reader
Report Producer : <u>Coco Lin</u>	
Report Number : <u>RXZ250423084RF02</u>	
Report Date : <u>2025-08-19</u>	
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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ250423084	RXZ250423084RF02	2025-08-19	Original Report	Coco Lin

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	EWIC PHILIPPINES INC.
	BLDG NOS 7&8 S BLK 2 LOT 2 EZP WAREHOUSE, LAGUNA TECHNOPARK ANNEX, BARANGAY BO BINAN, BINAN, PHILIPPINES
Brand(Trade) Name	N/A
Product (Equipment)	Access Reader
Main Model Name	RD1BN
Series Model Name	CRD1-BN
Model Discrepancy	The major electrical and mechanical constructions of series models are identical to the basic model. The model, RD1BN is the testing sample, and the final test data are shown on this test report. Please refer to the difference declaration letter provided by the Applicant.
Frequency Range	BLE(1M): 2402 ~ 2480 MHz
Maximum Conducted Peak Output Power	BLE(1M) Mode : -9.94 dBm
Modulation Technique	BLE(1M) Mode: GFSK
Power Operation (Voltage Range)	12Vdc
Sample Received Date	2025/04/23

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

RXZ250423084-1 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *EWIC PHILIPPINES 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 (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/5/26	20.3	46	Jing
Radiation Spurious Emissions	2025/5/15~2025/5/20	22.8~23.5	61~67	Nick
Duty Cycle	2025/4/23	26.7	44	Nick
Conducted Spurious Emissions	2025/4/23	26.7	44	Nick
Emission Bandwidth	2025/4/23	26.7	44	Nick
Maximum Output Power	2025/4/23	26.7	44	Nick
100 kHz Bandwidth of Frequency Band Edge	2025/4/23	26.7	44	Nick
Power Spectral Density	2025/4/23	26.7	44	Nick

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 “EMI_Tool_V1.4”

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

The worst case data rates are as follows:

BLE 1M : 1 Mbps

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Full System (model: RD1BN) for all test item.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
Fixture	Telink	TLSRGSOCBK56B
DC Power Supply	KIKUSUI	PMC35-2
Fixture	Luminys	AC02B3

2.6 External Cable List and Details

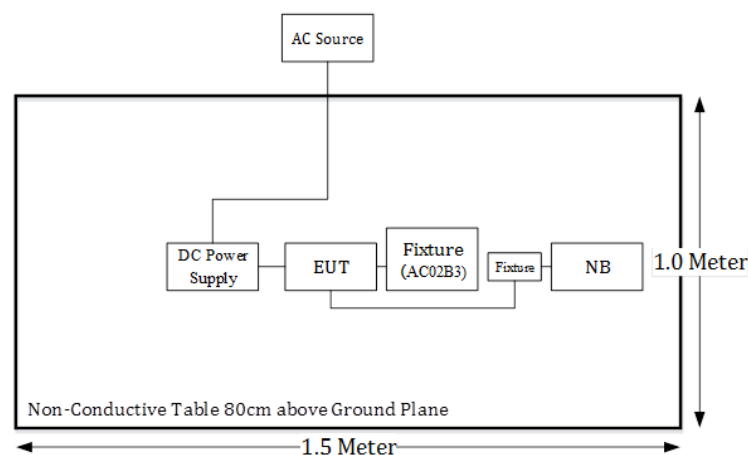
Description	Cable length	From	To
Mini USB	0.5m	NB	Fixture (TLSRGSOCBK56B)
4-pin cable	0.5m	EUT	Fixture (TLSRGSOCBK56B)

2.7 Block Diagram of Test Setup

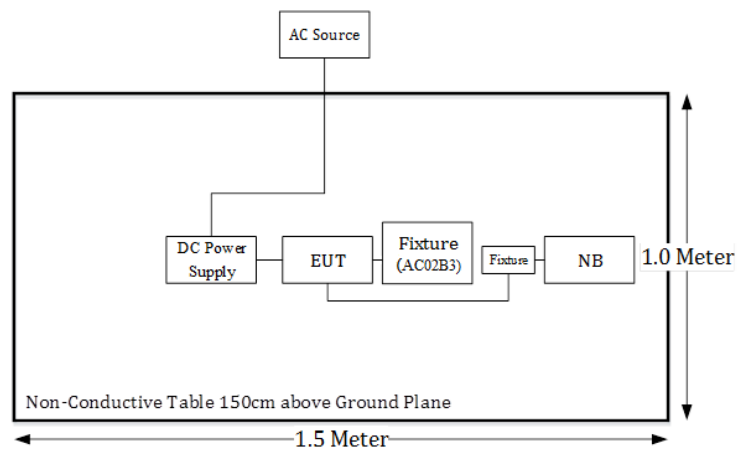
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

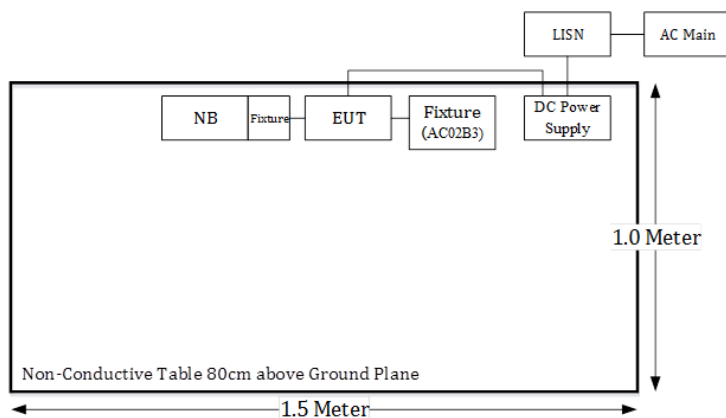
Below 1GHz:



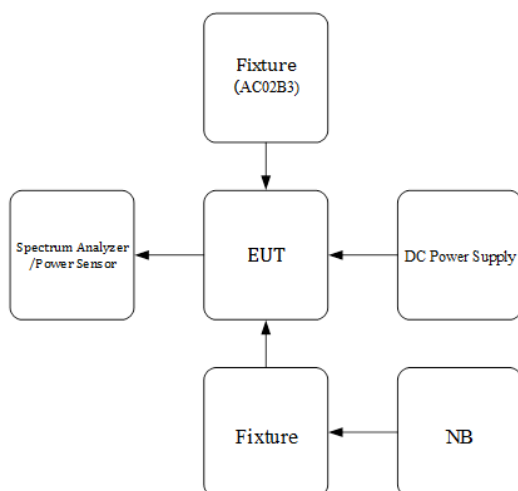
Above 1GHz:



Conduction:



Conducted:



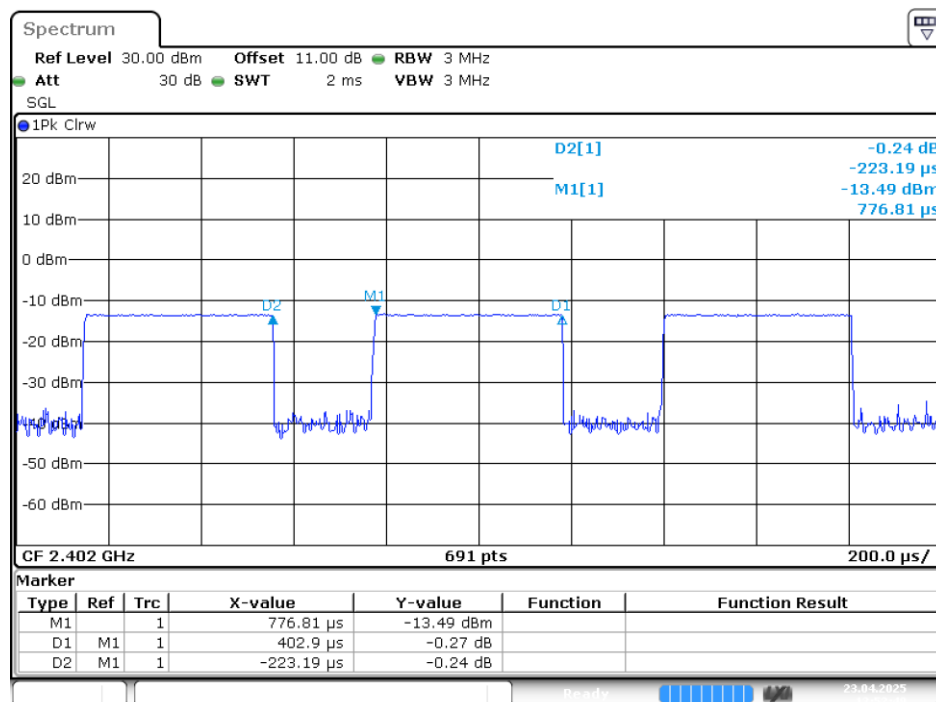
2.8 Duty Cycle

The duty cycle as below:

Radio Mode	Ton (ms)	Toff (ms)	Duty Cycle (%)	1/T (kHz)	1/T VBW setting (kHz)
BLE(1M)	0.403	0.223	64	2.49	3

Please refer to the following plots.

BLE(1M) Mode



Date: 23.APR.2025 13:52:50

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	101612	2025/2/17	2026/2/17
EMI Test Receiver	Rohde & Schwarz	ESR	102759	2024/9/19	2025/9/19
RF Cable	EMEC	EM-CB5D	1	2024/6/5	2025/6/5
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2025/3/27	2026/3/27
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554_2_01	2025/1/16	2026/1/16
Horn Antenna	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
Horn Antenna	ETS-Lindgren	3116	62638	2024/8/30	2025/8/30
Preamplifier	Sonoma	310N	130602	2024/6/18	2025/6/18
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2025/4/10	2026/4/10
Preamplifier	BACL	BACL-1313-A1840	4011511	2025/2/12	2026/2/12
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2025/3/27	2026/3/27
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102099	2024/6/24	2025/6/24
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-450CM	160309-1	2025/1/21	2026/1/21
Microflex Cable	ROSNOL	K1K50-UP0264-K1K50-80CM	160309-2	2025/1/21	2026/1/21
Band-stop filter	Woken	STI15-9831	STI15-9831-1	2024/10/19	2025/10/19
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2024/10/19	2025/10/19
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Conducted Room					
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2024/5/30	2025/5/30
Cable	UTIFLEX	UFA210A	9435	2024/10/1	2025/10/1
Power Sensor	Boonton	RTP5006	11037	2024/5/21	2025/5/21
Attenuator	MCL	BW-S10W5+	1419	2025/3/6	2026/3/6

***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
PIFA	4.014 dBi

Antenna was permanently attached to the unit.

Result: Compliance

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

6.1 Applicable Standard

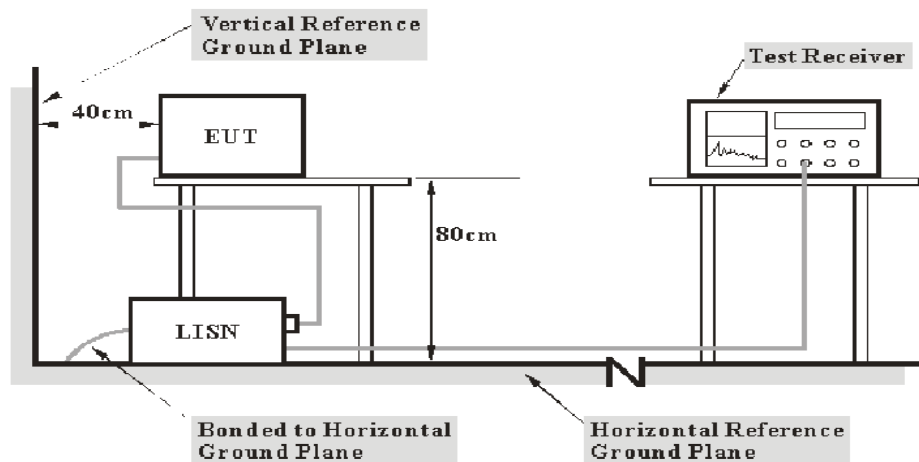
According to §15.207

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 μ H/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 DC Power Supply 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 and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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:

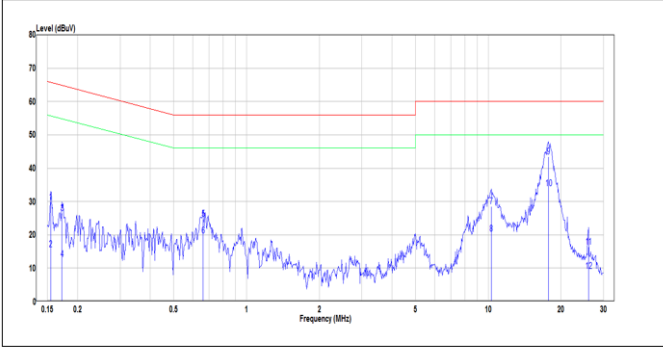
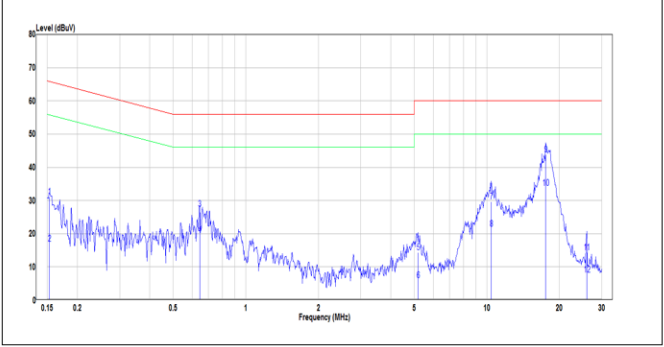
$$\text{Over Limit} = \text{Result} - \text{Limit Line}$$

6.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

(Worst case is low Channel)

Line									Neutral								
Description: BLE, RBW:9kHz/VBW:30kHz									Description: BLE, RBW:9kHz/VBW:30kHz								
2025-05-26									2025-05-26								
																	
No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase	No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase
	MHz	dBuV	dB	dBuV	dBuV	dB				MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.155	19.77	10.04	29.81	65.74	-35.93	QP	Line	1	0.153	21.14	9.99	31.13	65.82	-34.69	QP	Neutral
2	0.155	5.64	10.04	15.68	55.74	-40.06	Average	Line	2	0.153	7.04	9.99	17.03	55.82	-38.79	Average	Neutral
3	0.172	16.32	10.11	26.43	64.86	-38.43	QP	Line	3	0.644	17.07	10.40	27.47	56.00	-28.53	QP	Neutral
4	0.172	2.65	10.11	12.76	54.86	-42.10	Average	Line	4	0.644	9.25	10.40	19.65	46.00	-26.35	Average	Neutral
5	0.661	14.32	10.45	24.77	56.00	-31.23	QP	Line	5	5.194	3.80	10.53	14.33	60.00	-45.67	QP	Neutral
6	0.661	9.32	10.45	19.77	46.00	-26.23	Average	Line	6	5.194	-4.62	10.53	5.91	50.00	-44.09	Average	Neutral
7	10.288	17.86	10.64	28.50	60.00	-31.50	QP	Line	7	10.452	19.11	10.61	29.72	60.00	-30.28	QP	Neutral
8	10.288	9.62	10.64	20.26	50.00	-29.74	Average	Line	8	10.452	10.85	10.61	21.46	50.00	-28.54	Average	Neutral
9	17.755	32.66	10.77	43.43	60.00	-16.57	QP	Line	9	17.568	33.03	10.72	43.75	60.00	-16.25	QP	Neutral
10	17.755	23.25	10.77	34.02	50.00	-15.98	Average	Line	10	17.568	23.00	10.72	33.72	50.00	-16.28	Average	Neutral
11	26.001	5.65	10.77	16.42	60.00	-43.58	QP	Line	11	26.001	3.60	10.73	14.33	60.00	-45.67	QP	Neutral
12	26.001	-1.63	10.77	9.14	50.00	-40.86	Average	Line	12	26.001	-3.08	10.73	7.65	50.00	-42.35	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result - Limit Line

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

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.

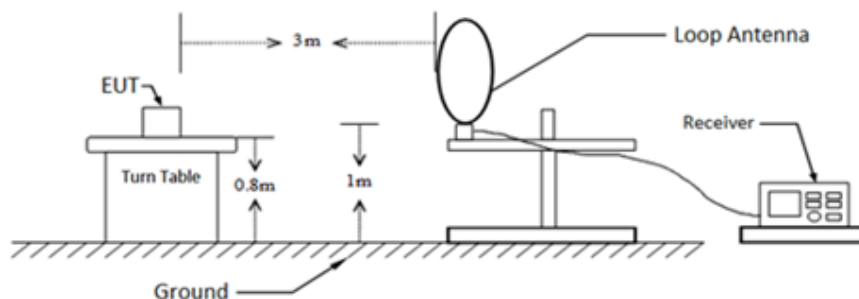
According to ANSI C63.10-2020, section 5.3.3

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).

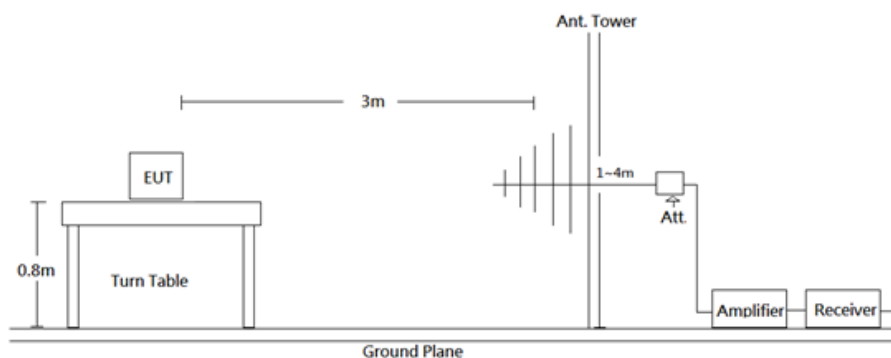
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the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

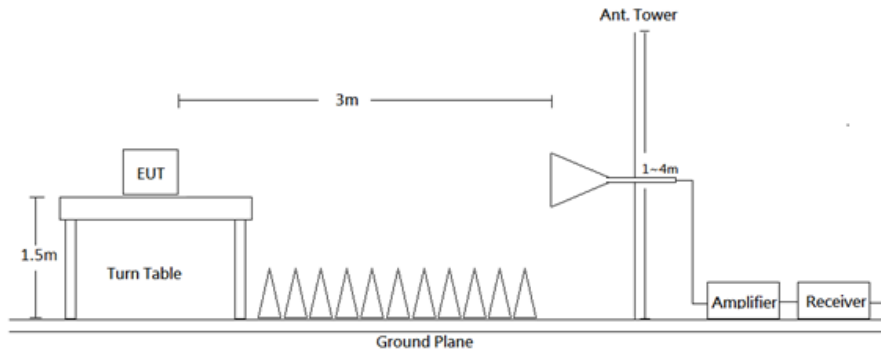
9kHz-30MHz:



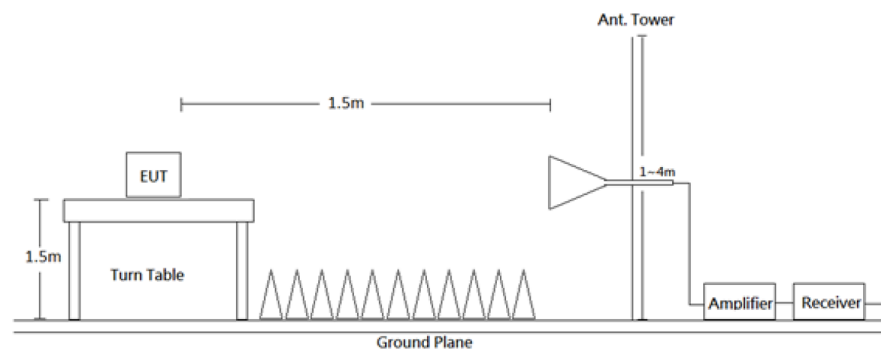
30MHz-1GHz:



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 30 MHz 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	$\geq 1/T_{on}$, 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	$\geq 1/T_{on}$	/	<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 $\geq [3 \times \text{RBW}]$.
- 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.

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:

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

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:

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

7.6 Test Results

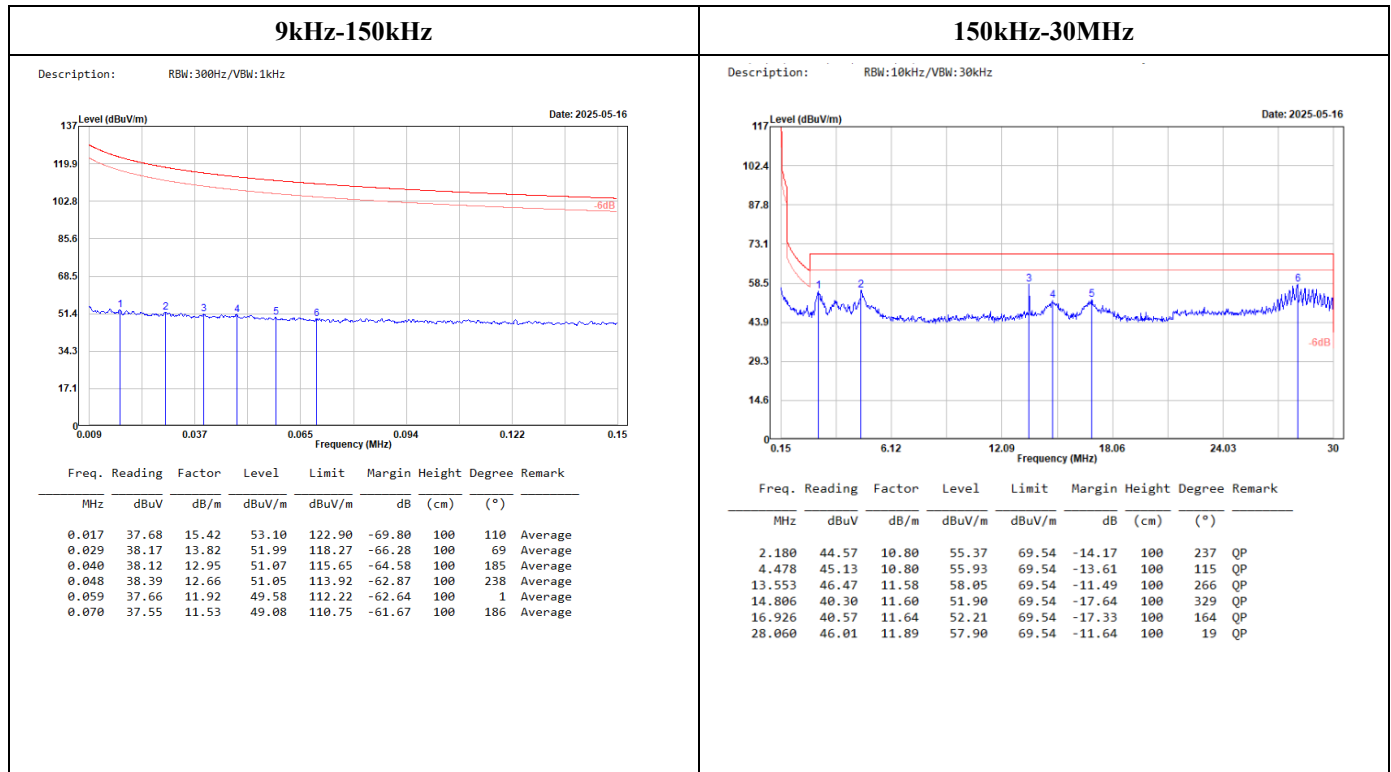
Test Mode: Transmitting

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

9kHz-30MHz:

(Worst case is low channel)

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

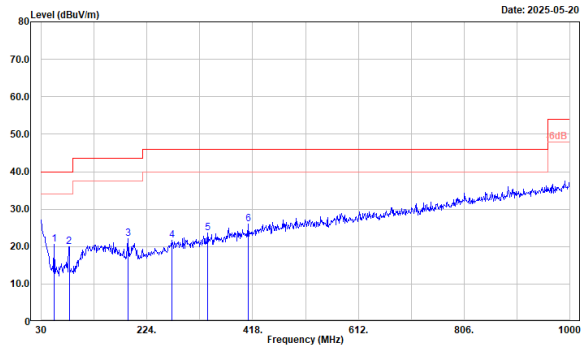


30MHz-1GHz:

Low channel

Horizontal

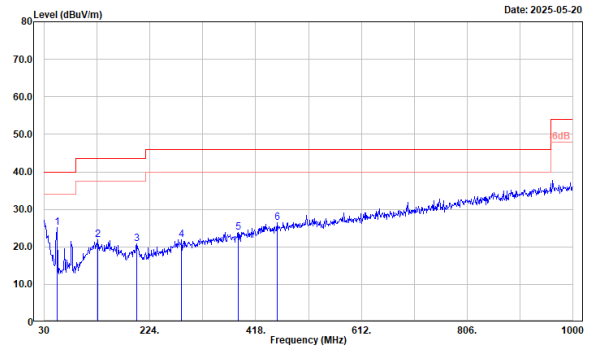
Description: BLE-TX-LOW, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
53.280	36.19	-15.53	20.66	40.00	-19.34	100	84	QP
81.410	35.52	-15.59	19.93	40.00	-20.07	100	328	QP
190.050	33.26	-11.13	22.13	43.50	-21.37	100	34	QP
270.560	30.29	-8.63	21.66	46.00	-24.34	100	145	QP
335.550	31.00	-7.40	23.60	46.00	-22.40	100	360	QP
409.270	31.40	-5.46	25.94	46.00	-20.06	100	226	QP

Vertical

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

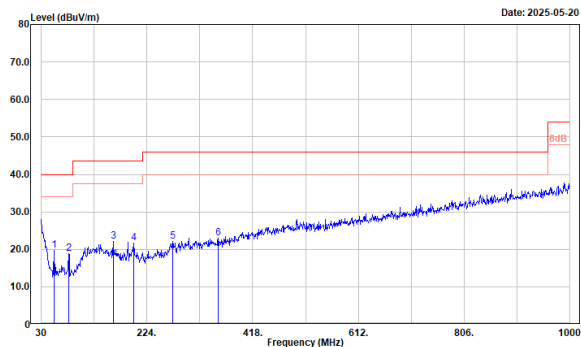


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
53.280	40.68	-15.53	25.15	40.00	-14.85	100	254	QP
128.940	30.91	-8.93	21.98	43.50	-21.52	100	324	QP
199.750	30.11	-9.38	20.73	43.50	-22.77	100	27	QP
282.200	30.36	-8.39	21.97	46.00	-24.03	100	117	QP
385.990	30.03	-6.09	23.94	46.00	-22.06	100	339	QP
457.770	30.57	-4.10	26.47	46.00	-19.53	100	334	QP

Middle channel

Horizontal

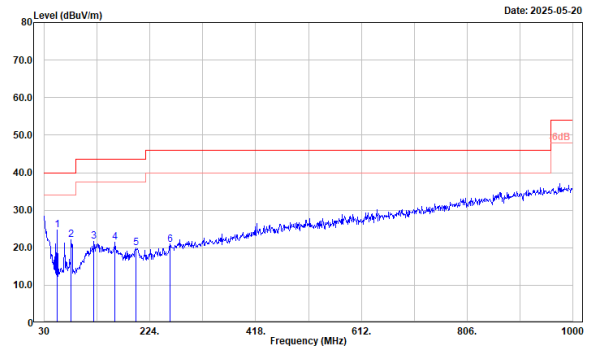
Description: BLE-TX-Middle, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
53.280	35.21	-15.53	19.68	40.00	-20.32	100	98	QP
80.440	34.45	-15.49	18.96	40.00	-21.04	100	300	QP
161.920	32.09	-10.04	22.05	43.50	-21.45	100	132	QP
199.750	31.01	-9.38	21.63	43.50	-21.87	100	323	QP
271.530	30.61	-8.60	22.01	46.00	-23.99	100	5	QP
354.950	30.21	-7.15	23.06	46.00	-22.94	100	236	QP

Vertical

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

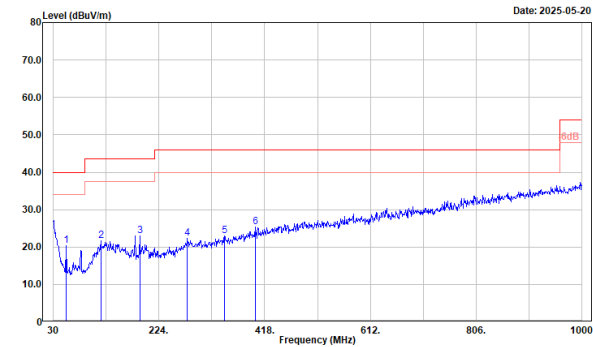


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
54.250	40.32	-15.65	24.67	40.00	-15.33	100	175	QP
79.470	37.41	-15.35	22.06	40.00	-17.94	100	3	QP
121.180	30.90	-9.14	21.76	43.50	-21.74	100	132	QP
159.980	31.29	-9.86	21.43	43.50	-22.07	100	90	QP
198.780	29.43	-9.54	19.89	43.50	-23.61	100	260	QP
260.860	30.66	-9.74	20.92	46.00	-25.08	100	359	QP

High channel

Horizontal

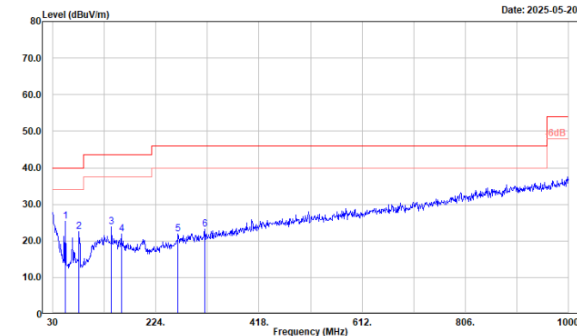
Description: BLE-High, RBW: 100kHz/VBW: 300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
54.250	36.06	-15.65	20.41	40.00	-19.59	100	81	QP
117.300	30.93	-9.30	21.63	43.50	-21.87	100	355	QP
189.080	34.30	-11.32	22.98	43.50	-20.52	100	231	QP
276.380	30.77	-8.51	22.26	46.00	-23.74	100	224	QP
344.280	30.45	-7.37	23.08	46.00	-22.92	100	162	QP
400.540	30.92	-5.58	25.34	46.00	-20.66	100	28	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)	(°)	
54.250	40.98	-15.65	25.33	40.00	-14.67	100	232	QP
79.470	37.92	-15.35	22.57	40.00	-17.43	100	348	QP
140.580	33.30	-9.36	23.94	43.50	-19.56	100	76	QP
159.010	31.66	-9.77	21.89	43.50	-21.61	100	301	QP
265.710	30.85	-9.00	21.85	46.00	-24.15	100	87	QP
316.150	30.99	-7.85	23.14	46.00	-22.86	100	141	QP

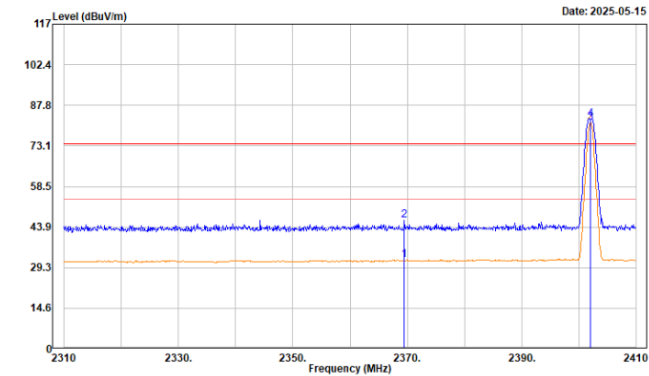
Level = Reading + Factor.
Margin = Level – Limit.
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Band-Edge:

Low channel

Horizontal

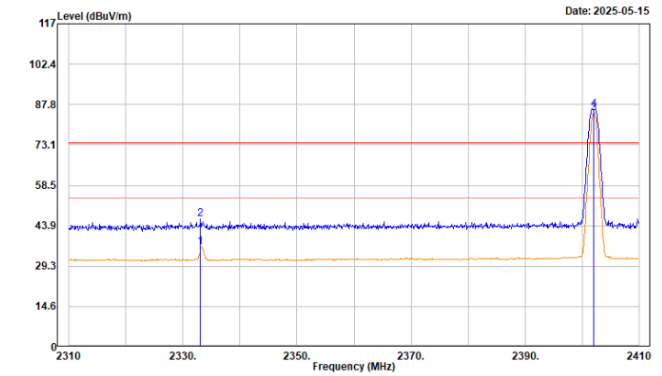
Description: BLE_1M-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2369.500	42.93	-10.84	32.09	54.00	-21.91	182	148	Average
2369.500	57.13	-10.84	46.29	74.00	-27.71	182	148	Peak
2402.000	92.13	-10.63	81.50			182	148	Average
2402.000	93.42	-10.63	82.79			182	148	Peak

Vertical

Description: BLE_1M-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3kHz

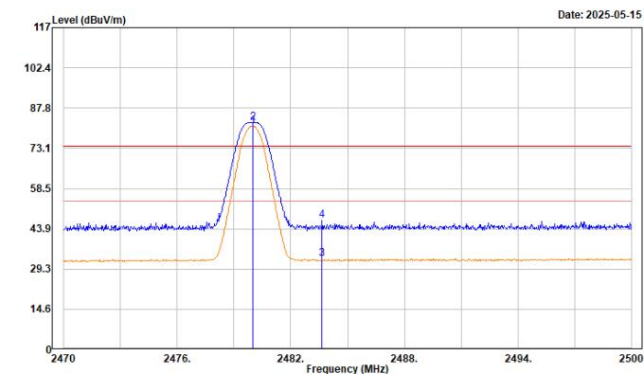


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2333.100	47.09	-11.09	36.00	54.00	-18.00	146	201	Average
2333.100	57.30	-11.09	46.21	74.00	-27.79	146	201	Peak
2402.000	95.34	-10.63	84.71			146	201	Average
2402.000	96.59	-10.63	85.96			146	201	Peak

High channel

Horizontal

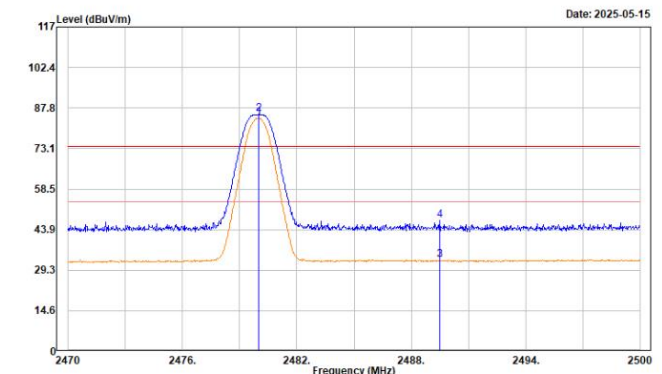
Description: BLE_1M-TX-2480, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	91.47	-10.22	81.25			145	149	Average
2480.000	92.69	-10.22	82.47			145	149	Peak
2483.650	43.14	-10.17	32.97	54.00	-21.03	145	149	Average
2483.650	56.98	-10.17	46.81	74.00	-27.19	145	149	Peak

Vertical

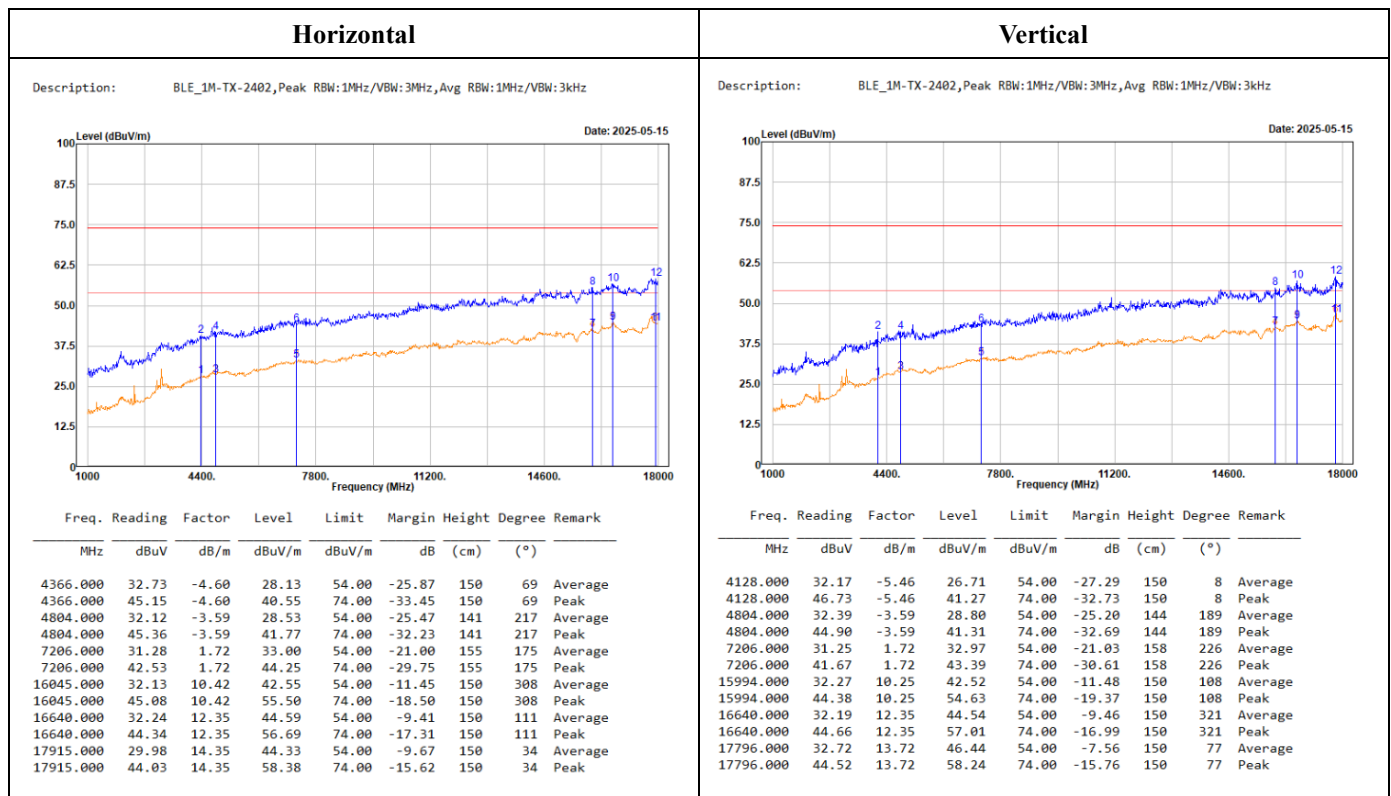
Description: BLE_1M-TX-2480, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2480.000	94.40	-10.22	84.18			141	179	Average
2480.000	95.68	-10.22	85.46			141	179	Peak
2489.500	43.12	-10.10	33.02	54.00	-20.98	141	179	Average
2489.500	57.38	-10.10	47.28	74.00	-26.72	141	179	Peak

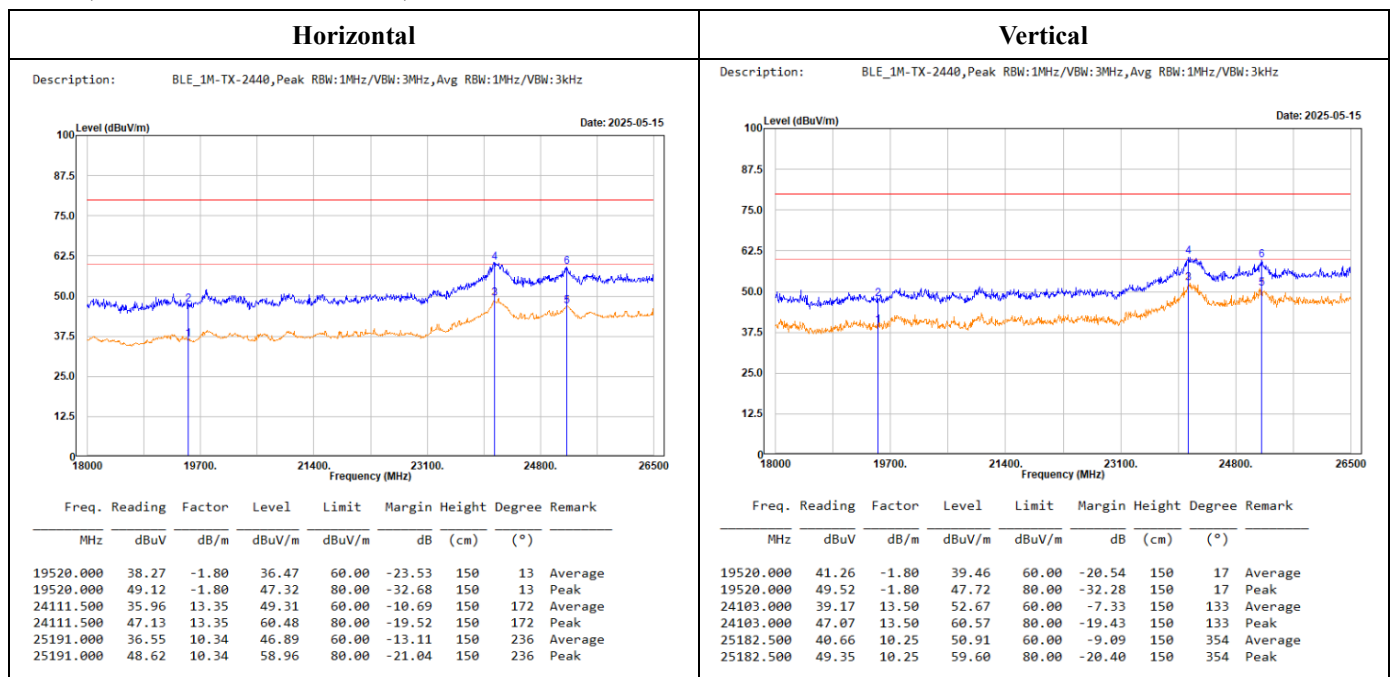
1GHz-18GHz:

(Worst case is low channel)



18GHz-26.5GHz:

(Worst case is 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 = $60+20 = 80 \text{ dBuV/m}@1.5\text{m}$

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

(New Taipei Laboratory)

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)	(°)	
4366.000	32.73	-4.60	28.13	54.00	-25.87	150	69	Average	4128.000	32.17	-5.46	26.71	54.00	-27.29	150	8	Average
4366.000	45.15	-4.60	40.55	74.00	-33.45	150	69	Peak	4128.000	46.73	-5.46	41.27	74.00	-32.73	150	8	Peak
4804.000	32.12	-3.59	28.53	54.00	-25.47	141	217	Average	4804.000	32.39	-3.59	28.80	54.00	-25.20	144	189	Average
4804.000	45.36	-3.59	41.77	74.00	-32.23	141	217	Peak	4804.000	44.90	-3.59	41.31	74.00	-32.69	144	189	Peak
7206.000	31.28	1.72	33.00	54.00	-21.00	155	175	Average	7206.000	31.25	1.72	32.97	54.00	-21.03	158	226	Average
7206.000	42.53	1.72	44.25	74.00	-29.75	155	175	Peak	7206.000	41.67	1.72	43.39	74.00	-30.61	158	226	Peak
16045.000	32.13	10.42	42.55	54.00	-11.45	150	308	Average	15994.000	32.27	10.25	42.52	54.00	-11.48	150	108	Average
16045.000	45.08	10.42	55.50	74.00	-18.50	150	308	Peak	15994.000	44.38	10.25	54.63	74.00	-19.37	150	108	Peak
16640.000	32.24	12.35	44.59	54.00	-9.41	150	111	Average	16640.000	32.19	12.35	44.54	54.00	-9.46	150	321	Average
16640.000	44.34	12.35	56.69	74.00	-17.31	150	111	Peak	16640.000	44.66	12.35	57.01	74.00	-16.99	150	321	Peak
17915.000	29.98	14.35	44.33	54.00	-9.67	150	34	Average	17796.000	32.72	13.72	46.44	54.00	-7.56	150	77	Average
17915.000	44.03	14.35	58.38	74.00	-15.62	150	34	Peak	17796.000	44.52	13.72	58.24	74.00	-15.76	150	77	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)	(°)	
4349.000	32.05	-4.73	27.32	54.00	-26.68	150	3	Average	4485.000	32.39	-4.17	28.22	54.00	-25.78	150	352	Average
4349.000	44.65	-4.73	39.92	74.00	-34.08	150	3	Peak	4485.000	43.67	-4.17	39.50	74.00	-34.50	150	352	Peak
4880.000	32.13	-2.99	29.14	54.00	-24.86	142	107	Average	4880.000	32.10	-2.99	29.11	54.00	-24.89	146	45	Average
4880.000	42.44	-2.99	39.45	74.00	-34.55	142	107	Peak	4880.000	42.64	-2.99	39.65	74.00	-34.35	146	45	Peak
7320.000	30.82	1.84	32.66	54.00	-21.34	154	254	Average	7320.000	30.56	1.84	32.40	54.00	-21.60	159	299	Average
7320.000	38.56	1.84	40.40	74.00	-33.60	154	254	Peak	7320.000	39.30	1.84	41.14	74.00	-32.86	159	299	Peak
16657.000	32.12	12.36	44.48	54.00	-9.52	150	39	Average	16283.000	31.63	10.97	42.60	54.00	-11.40	150	101	Average
16657.000	43.98	12.36	56.34	74.00	-17.66	150	39	Peak	16283.000	43.69	10.97	54.66	74.00	-19.34	150	101	Peak
17184.000	30.19	12.65	42.84	54.00	-11.16	150	177	Average	17167.000	30.02	12.59	42.61	54.00	-11.39	150	22	Average
17184.000	42.79	12.65	55.44	74.00	-18.56	150	177	Peak	17167.000	43.73	12.59	56.32	74.00	-17.68	150	22	Peak
17898.000	30.40	14.29	44.69	54.00	-9.31	150	343	Average	17898.000	30.23	14.29	44.52	54.00	-9.48	150	132	Average
17898.000	41.51	14.29	55.80	74.00	-18.20	150	343	Peak	17898.000	41.57	14.29	55.86	74.00	-18.14	150	132	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)	(°)	
4400.000	32.03	-4.33	27.70	54.00	-26.30	150	167	Average	4502.000	31.60	-4.15	27.45	54.00	-26.55	150	313	Average
4400.000	45.43	-4.33	41.10	74.00	-32.90	150	167	Peak	4502.000	44.64	-4.15	40.49	74.00	-33.51	150	313	Peak
4960.000	32.12	-3.13	28.99	54.00	-25.01	147	249	Average	4960.000	31.77	-3.13	28.64	54.00	-25.36	142	100	Average
4960.000	40.73	-3.13	37.60	74.00	-36.40	147	249	Peak	4960.000	41.79	-3.13	38.66	74.00	-35.34	142	100	Peak
7440.000	31.05	1.41	32.46	54.00	-21.54	156	105	Average	7440.000	31.14	1.41	32.55	54.00	-21.45	153	80	Average
7440.000	41.12	1.41	42.53	74.00	-31.47	156	105	Peak	7440.000	41.71	1.41	43.12	74.00	-30.88	153	80	Peak
14447.000	29.98	11.38	41.36	54.00	-12.64	150	302	Average	16640.000	31.94	12.35	44.29	54.00	-9.71	150	187	Average
14447.000	42.72	11.38	54.10	74.00	-19.90	150	302	Peak	16640.000	42.87	12.35	55.22	74.00	-18.78	150	187	Peak
16742.000	31.34	12.27	43.61	54.00	-10.39	150	57	Average	17082.000	29.61	12.26	41.87	54.00	-12.13	150	147	Average
16742.000	42.59	12.27	54.86	74.00	-19.14	150	57	Peak	17082.000	42.44	12.26	54.70	74.00	-19.30	150	147	Peak
18000.000	29.90	14.63	44.53	54.00	-9.47	150	19	Average	17745.000	32.28	13.52	45.80	54.00	-8.20	150	29	Average
18000.000	41.79	14.63	56.42	74.00	-17.58	150	19	Peak	17745.000	42.93	13.52	56.45	74.00	-17.55	150	29	Peak

Note:

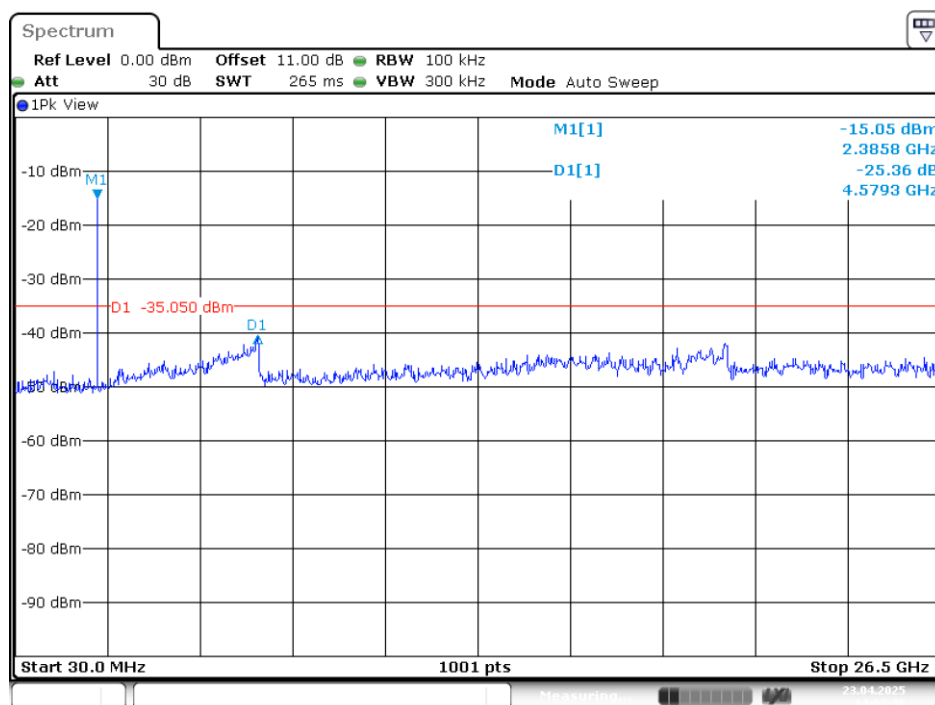
Level = Reading + Factor.

Margin = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

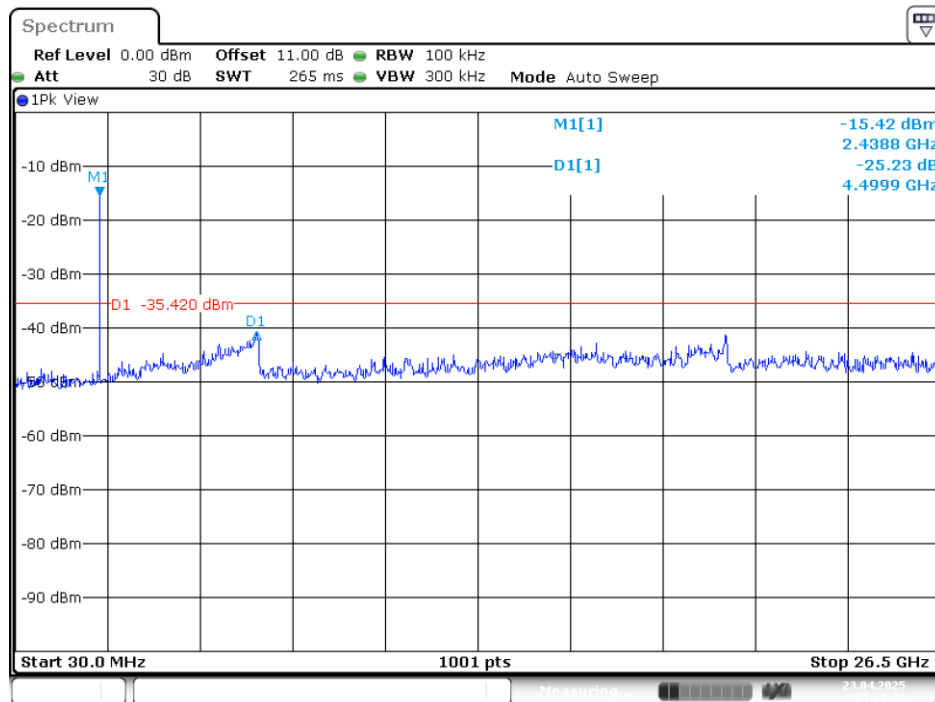
Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
BLE(1M) Mode				
Low	2402	25.36	≥ 20	PASS
Mid	2440	25.23	≥ 20	PASS
High	2480	25.32	≥ 20	PASS

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

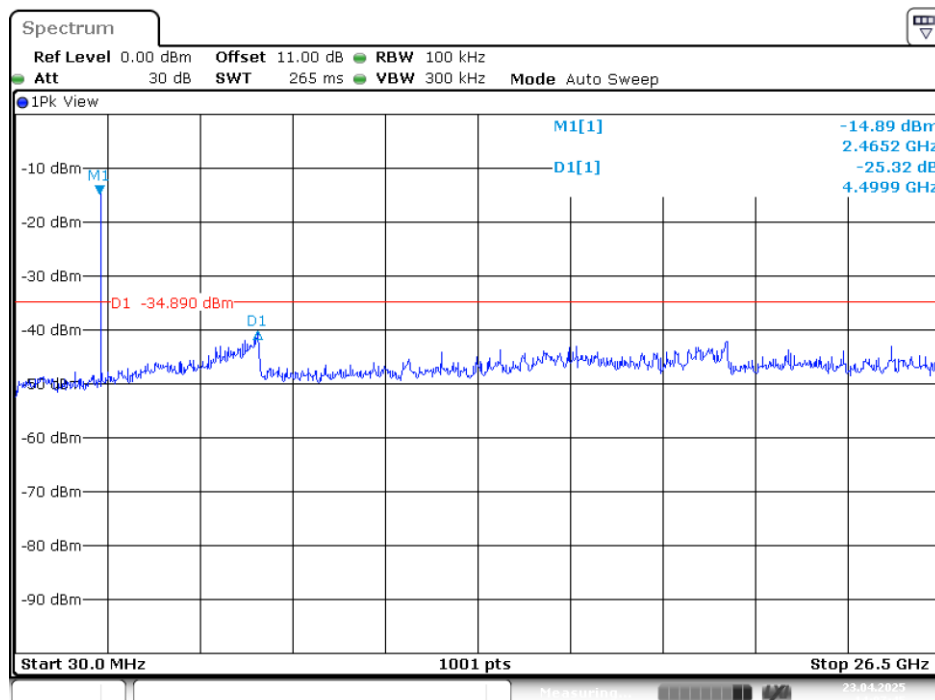
Date: 23.APR.2025 14:02:36

Middle Channel



Date: 23.APR.2025 14:05:35

High Channel



Date: 23.APR.2025 14:07:46

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:

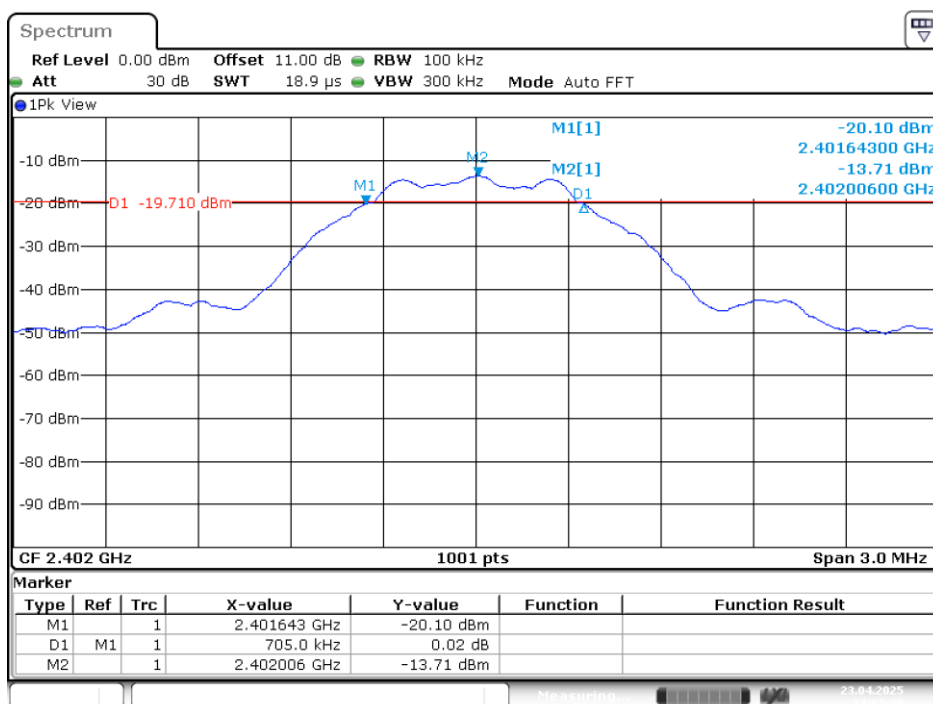
- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of 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.

8.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result
BLE(1M) Mode				
Low	2402	0.71	> 500	PASS
Middle	2440	0.70	> 500	PASS
High	2480	0.71	> 500	PASS

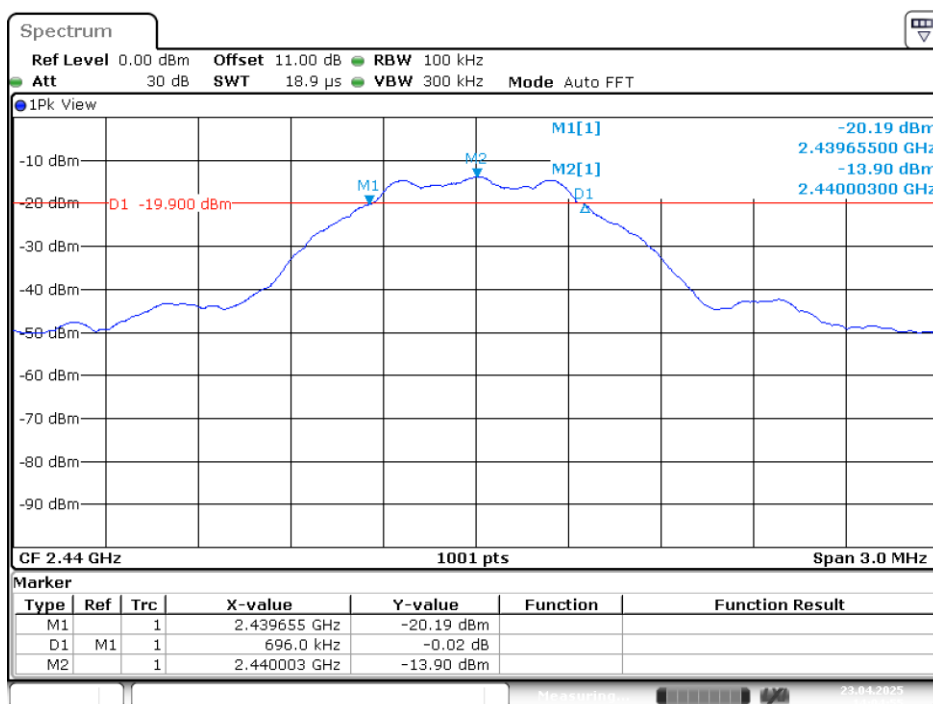
Please refer to the following plots

BLE(1M) Mode Low Channel



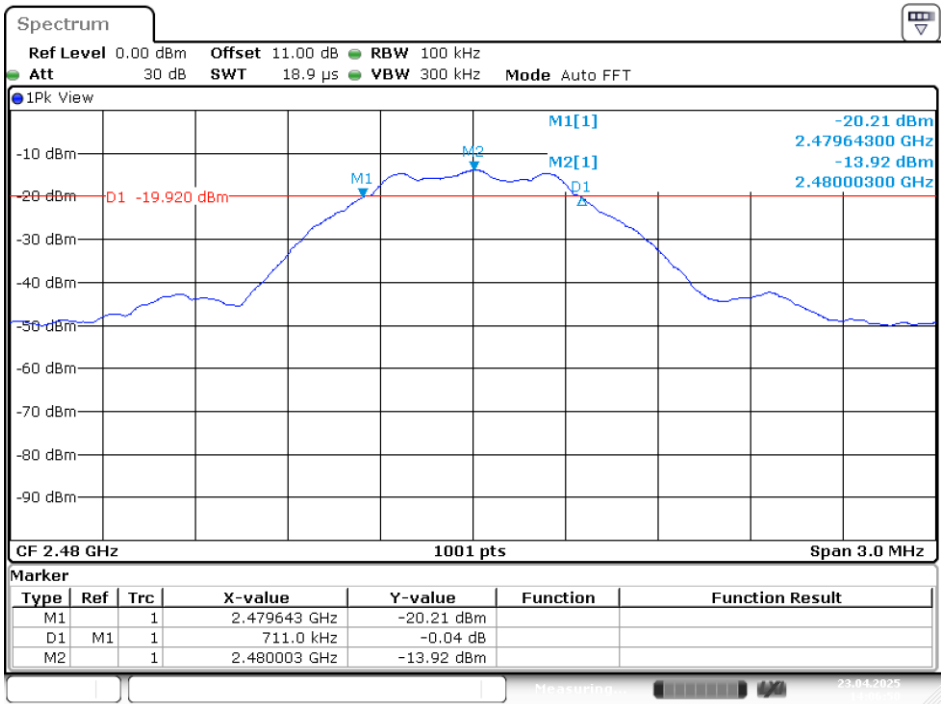
Date: 23.APR.2025 14:01:40

Middle Channel



Date: 23.APR.2025 14:04:56

High Channel



Date: 23.APR 2025 14:06:50

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	-9.94	30	PASS
Middle	2440	-10.39	30	PASS
High	2480	-9.95	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

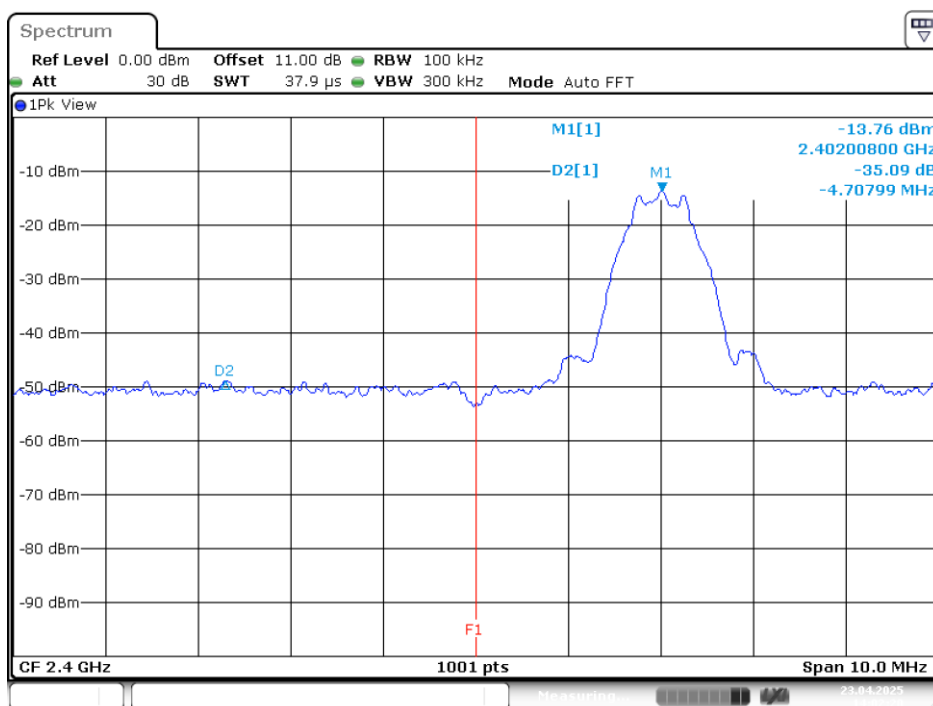
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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	35.09	≥ 20	PASS
High	2480	34.28	≥ 20	PASS

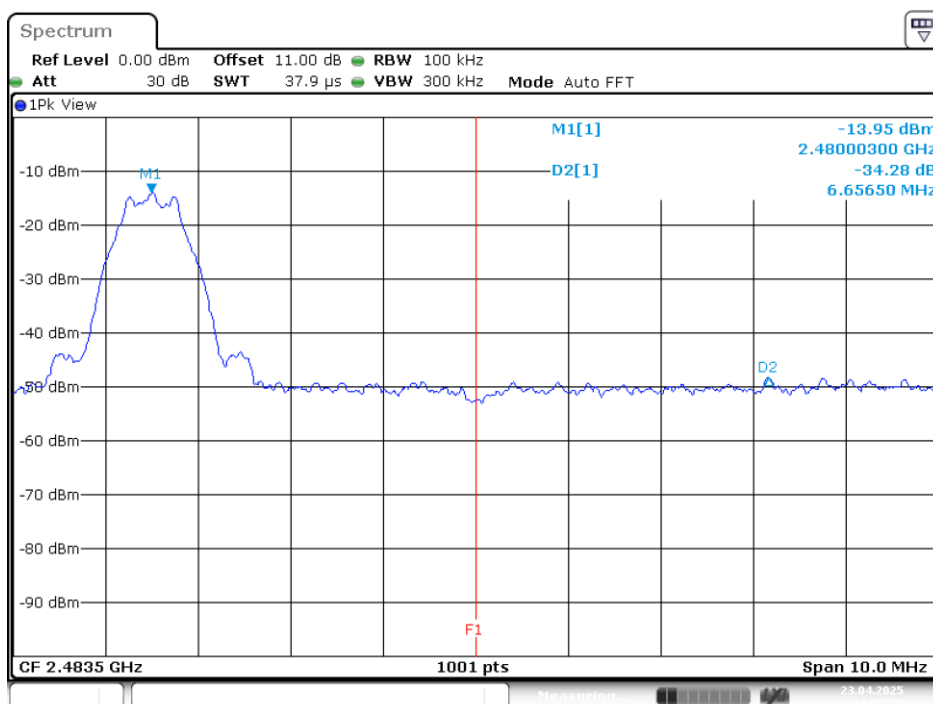
Please refer to the following plots.

BLE(1M) Mode Band Edge, Low Channel



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Band Edge, High Channel



Date: 23.APR.2025 14:07:31

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

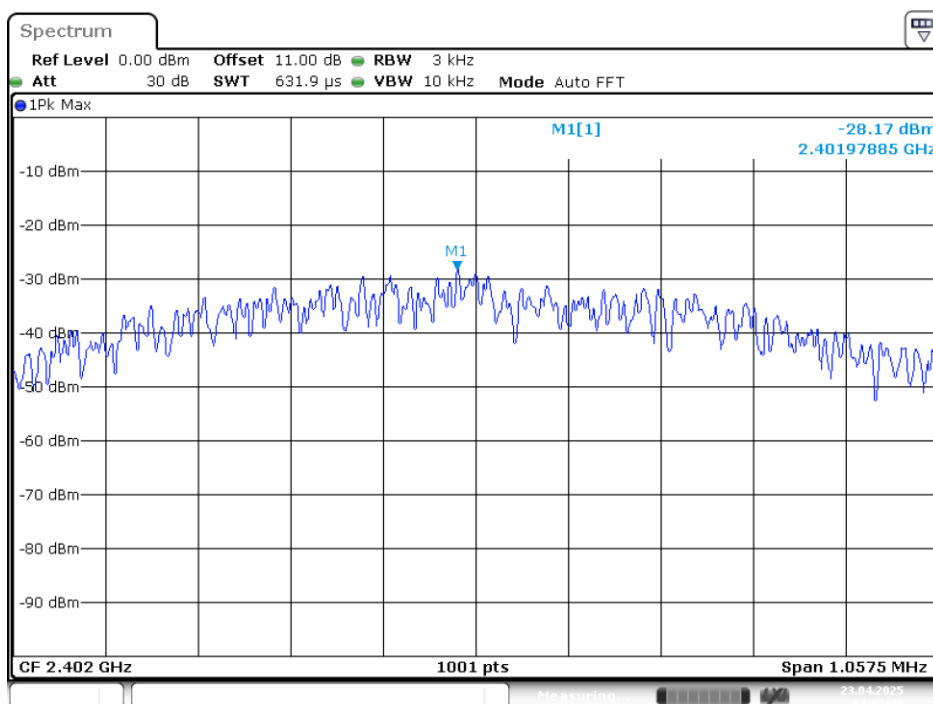
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) 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	-28.17	8	PASS
Middle	2440	-28.30	8	PASS
High	2480	-28.31	8	PASS

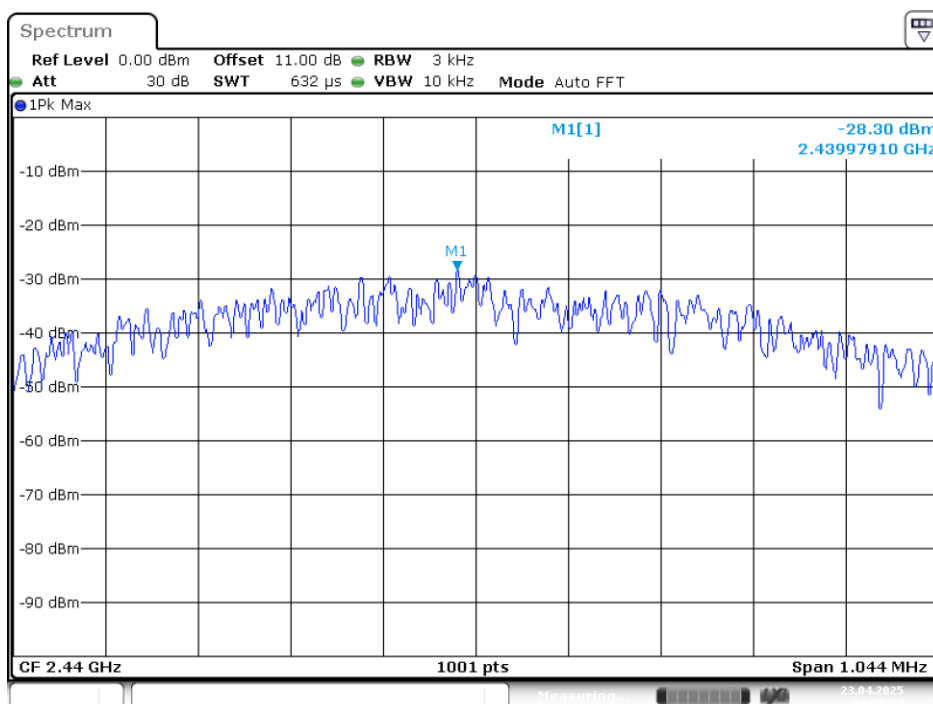
Please refer to the following plots

BLE(1M) Mode Low Channel



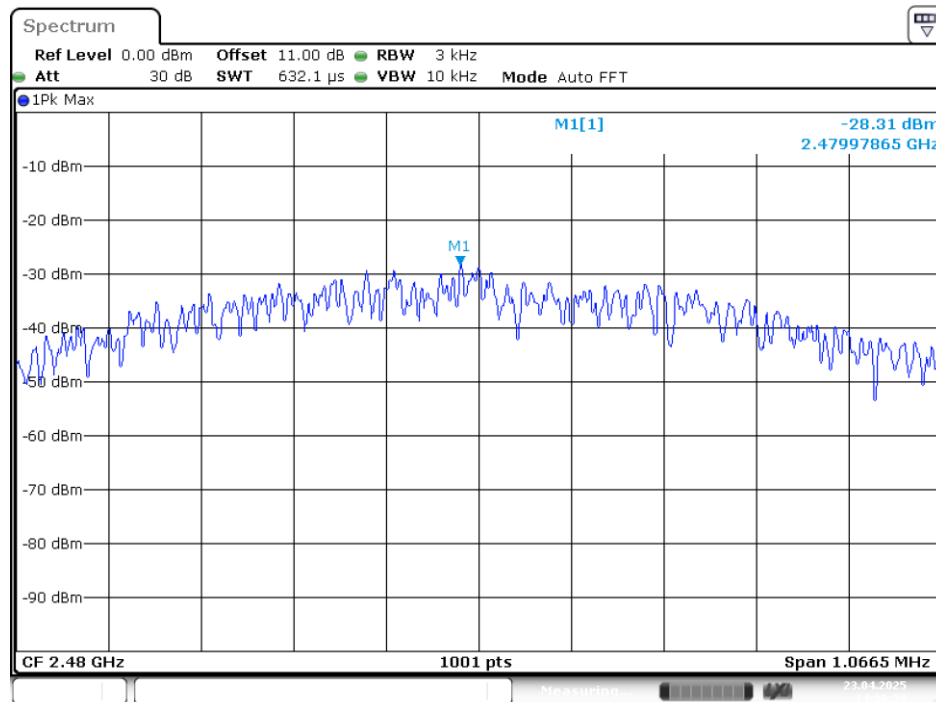
Date: 23.APR.2025 14:01:49

Middle Channel



Date: 23.APR.2025 14:05:05

High Channel



Date: 23.APR.2025 14:06:59

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