

FCC - TEST REPORT

Report Number : **68.950.23.0617.01** Date of Issue: **2023-06-20**

Model : **ZL-BLE-002**

Product Type : Bluetooth Module

Applicant : Xiamen Zlink Electronic Technology Co., Ltd

Address : Room 1001, No. 1707 Wulv Road, Tong'an District,
Xiamen City, Fujian Province, China

Manufacturer : Xiamen Zlink Electronic Technology Co., Ltd

Address : Room 1001, No. 1707 Wulv Road, Tong'an District,
Xiamen City, Fujian Province, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **40**

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

FCC Registration No.: 514049

FCC Designation Number: CN5009

3 Description of the Equipment Under Test

Product:	Bluetooth Module
Model no.:	ZL-BLE-002
FCC ID:	2BA9M-ZLBLE002
Rating:	3.3VDC
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	Integrated antenna
Antenna Gain:	-0.58dBi
Description of the EUT:	EUT is Bluetooth Module which supports Bluetooth Low Energy/Bluetooth BDR+EDR functions
Remark:	This report only for Bluetooth Low Energy part.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 v05r02 DTS Measurement Guidance and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements		
FCC Part 15 Subpart C		
Test Condition		Test Result
§15.207	Conducted emission AC power port	N/A
§15.247(b)(3)	Conducted peak output power	Pass
§15.247(e)	Power spectral density	Pass
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Pass
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	N/A
§15.247(a)(1)	Min. of Hopping Channel Carrier Frequency Separation	N/A
§15.247(a)(1)(iii)	Min number of hopping frequencies	N/A
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	N/A
§15.247(d)	Spurious RF conducted emissions	Pass
§15.247(d)	Band edge	Pass
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	Pass
§15.203	Antenna requirement	Pass See note 2

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an integrated antenna, which gain is -0.58dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is complies with Section 15.209, 15.247 of the FCC Part 15, Subpart C rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2023-02-28

Testing Start Date: 2023-02-28

Testing End Date: 2023-04-12

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:



Cookies Bu
Project Manager

Prepared by:



Vincent Zheng
Project Engineer

Tested by:

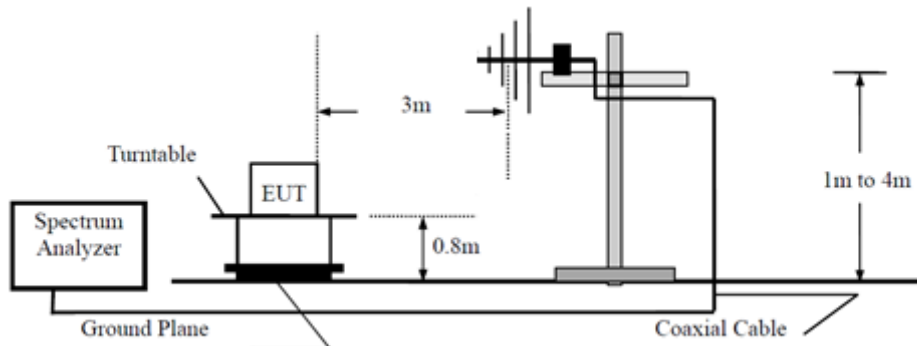


Carry Cai
Test Engineer

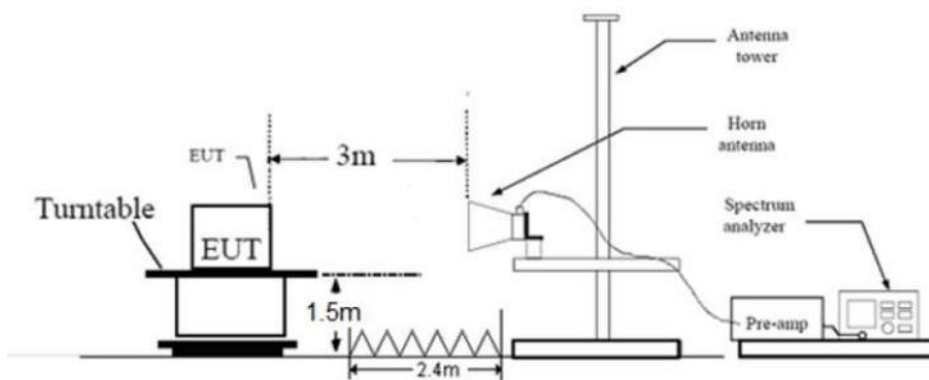
7 Test Setups

7.1 Radiated test setups

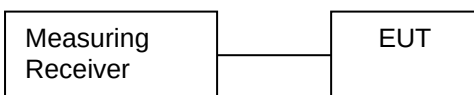
Below 1GHz



Above 1GHz



7.2 Conducted RF test setups



8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Laptop	LENOVO	X220	MP18DLC6

The system was configured to channel 0, 19, and 39 for the test.

9 Technical Requirement

9.1 Conducted Peak Output Power

Test Method

1. The RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following test receiver settings:
Span = approximately 5 times the 6dB bandwidth, centered on a hopping channel
RBW > the 6dB bandwidth of the emission being measured, VBW $\geq$ 3RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

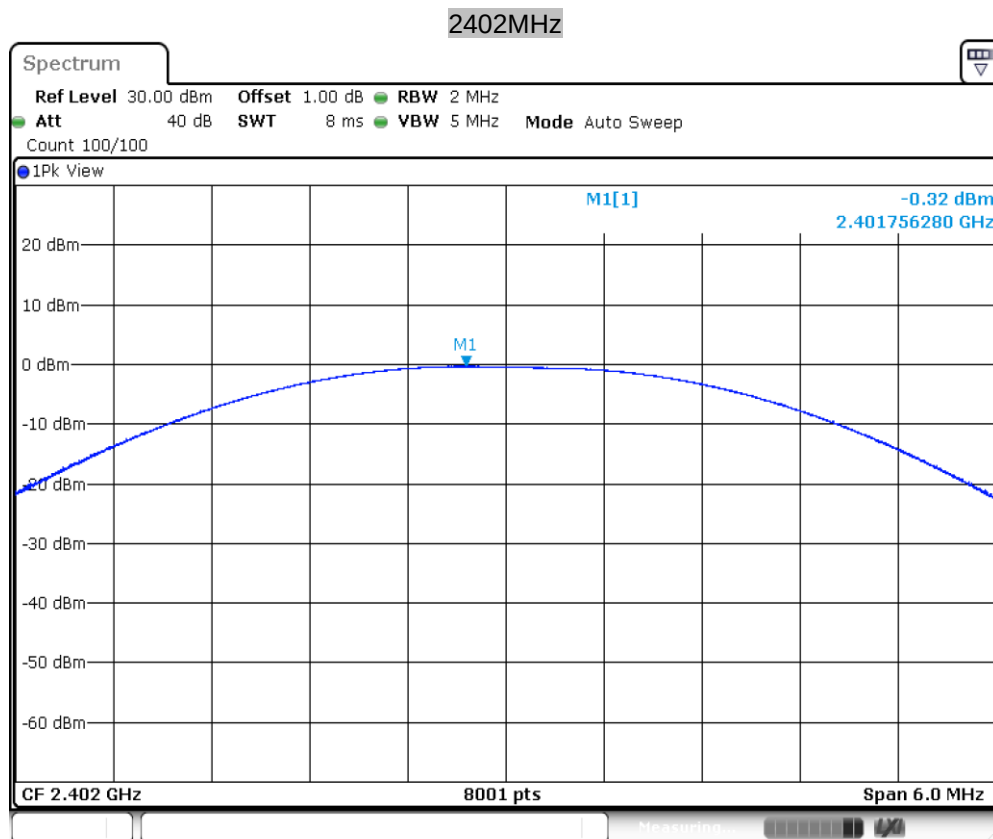
Limits

According to §15.247 (b) (3) conducted peak output power limit as below:

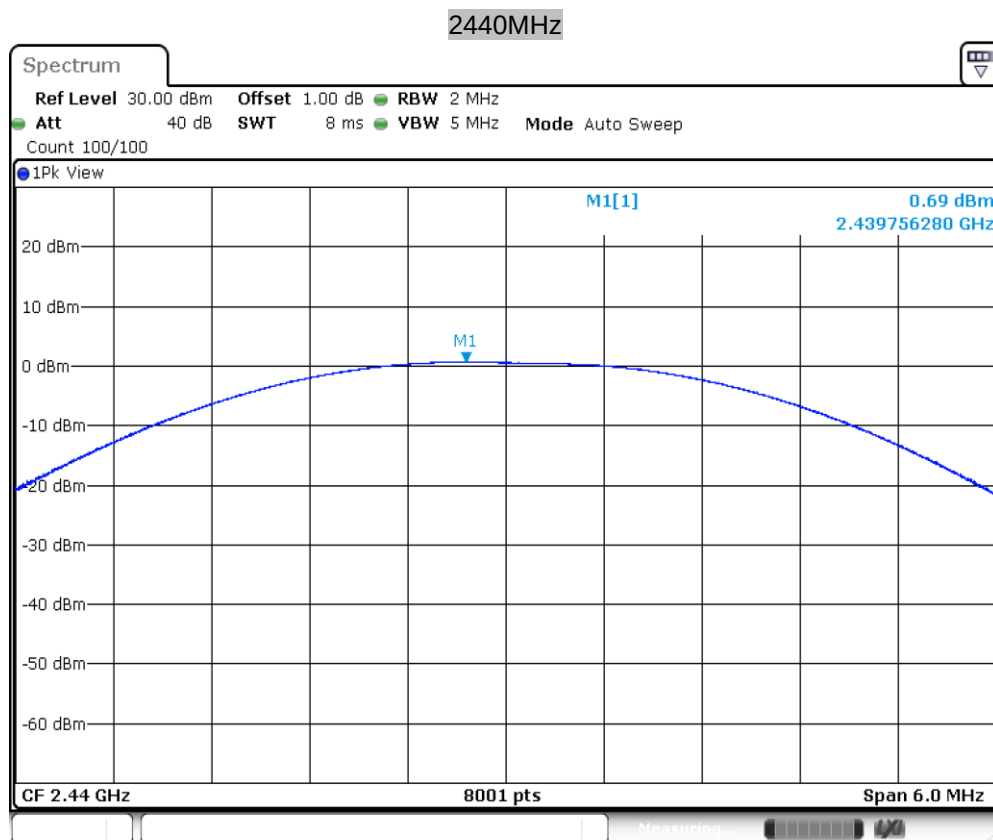
Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Conducted Peak Output Power

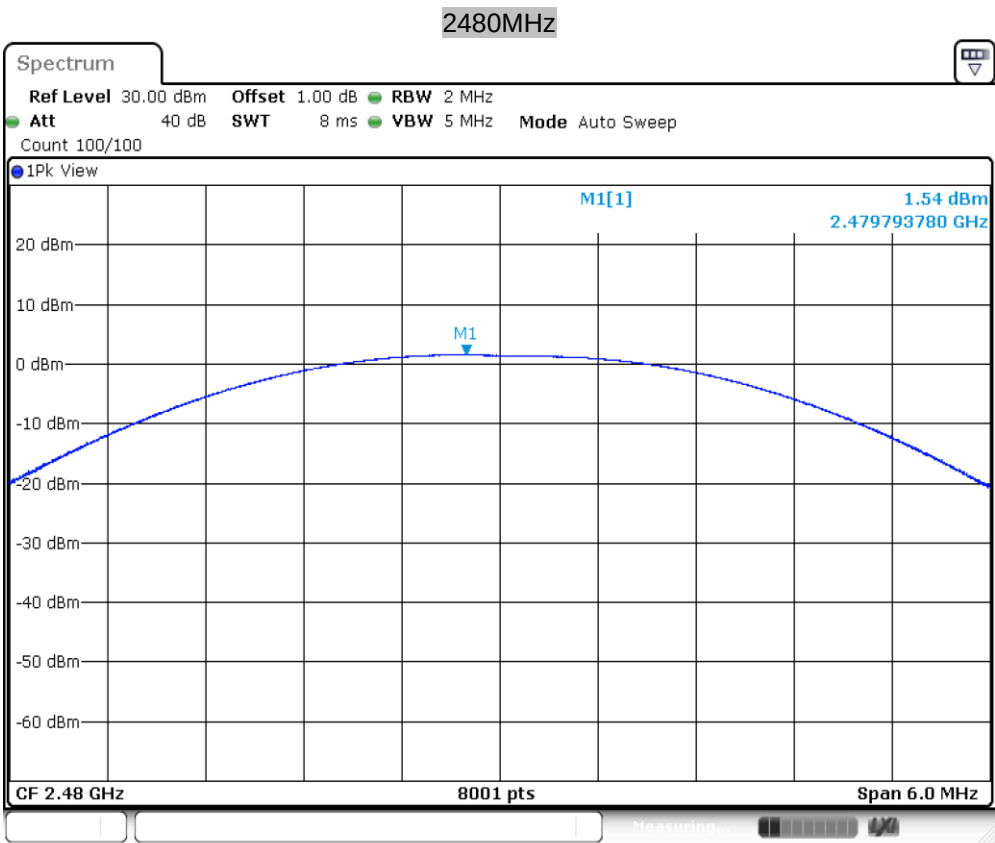
Frequency (MHz)	Conducted Output Power (dBm)	Result
Low channel 2402MHz	-0.32	Pass
Middle channel 2440MHz	0.69	Pass
High channel 2480MHz	1.54	Pass



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Date: 29.MAR.2023 16:03:21



Date: 29.MAR.2023 16:04:39

9.2 Power Spectral Density

Test Method

1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until other frequencies measured were completed.

Limit

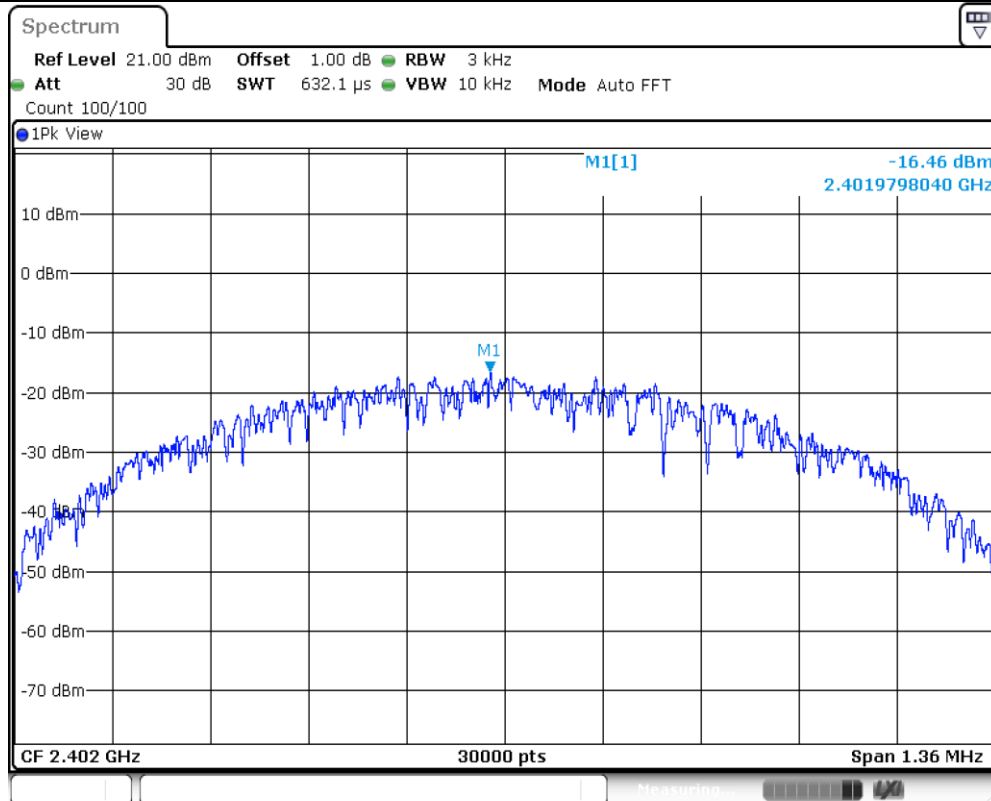
Limit [dBm dBm/3KHz]

≤ 8

Test result

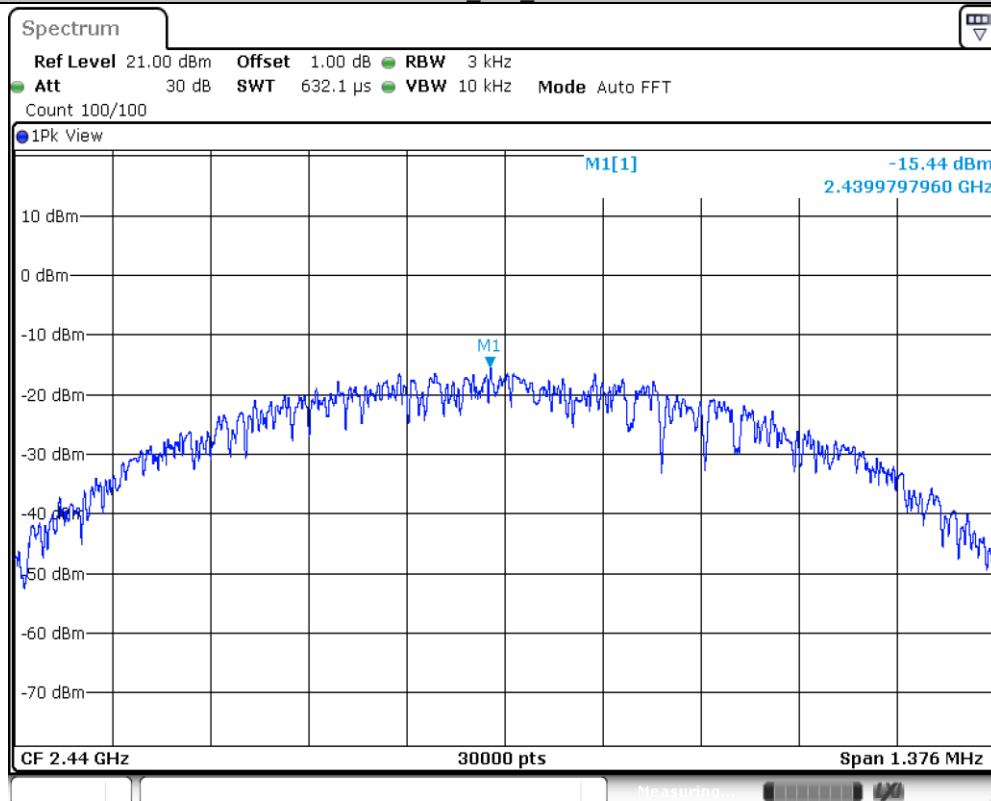
Channel (MHz)	Result (dBm/3KHz)	Limit(dBm/3KHz)	Verdict
2402	4.18	8	PASS
2440	4.32	8	PASS
2480	4.26	8	PASS

BLE_1M_2402

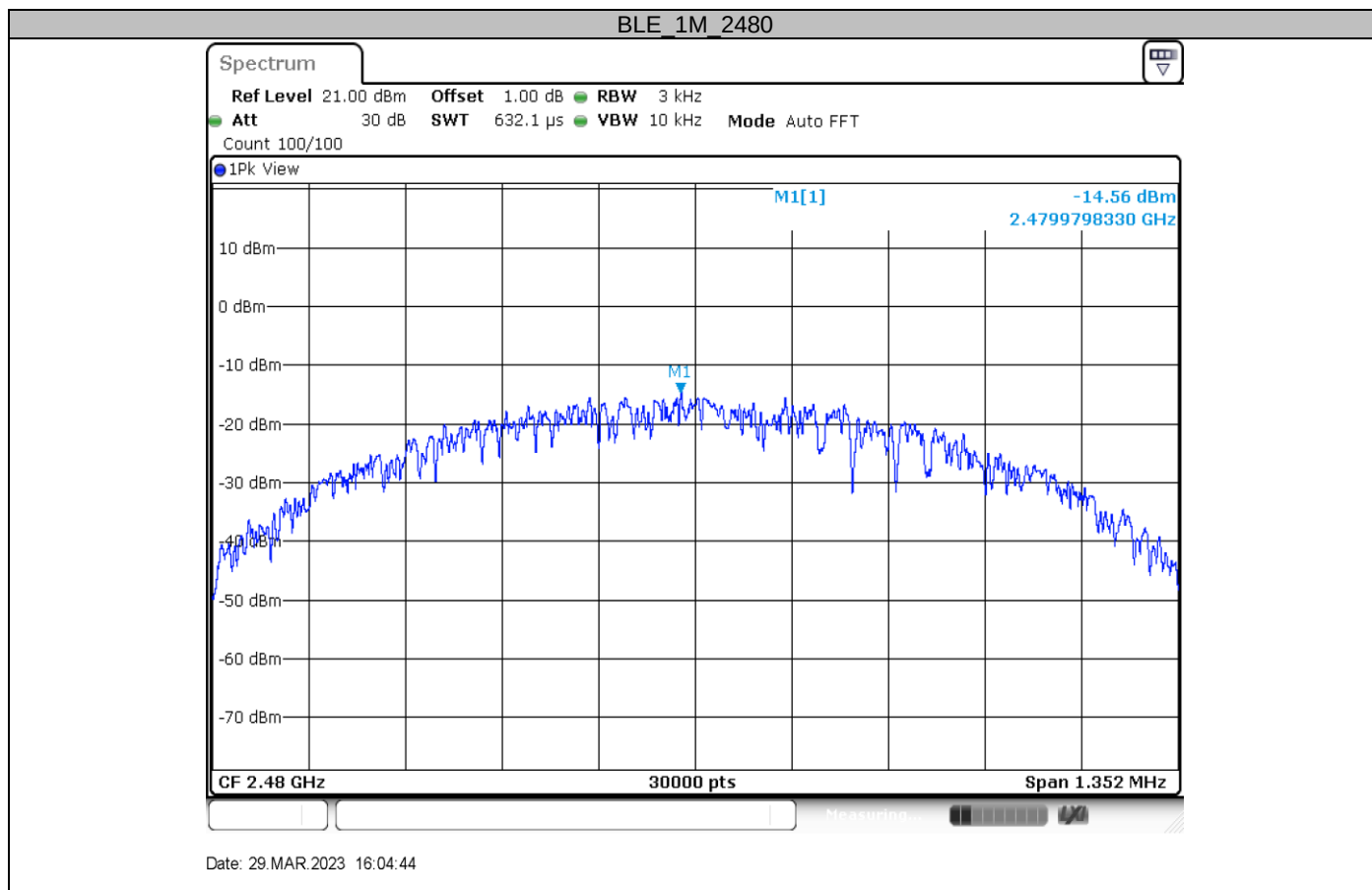


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BLE_1M_2440



Date: 29.MAR.2023 16:03:26



9.3 6 dB Bandwidth and 99% Occupied Bandwidth

Test Method

1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following test receiver settings:
Span = approximately 5 times the 6dB bandwidth, centered on a hopping channel
RBW =100KHz, VBW $\geq$ 3RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth. Record the results.
5. Repeat above procedures until all frequencies measured were complete.

Limit

Limit [kHz]

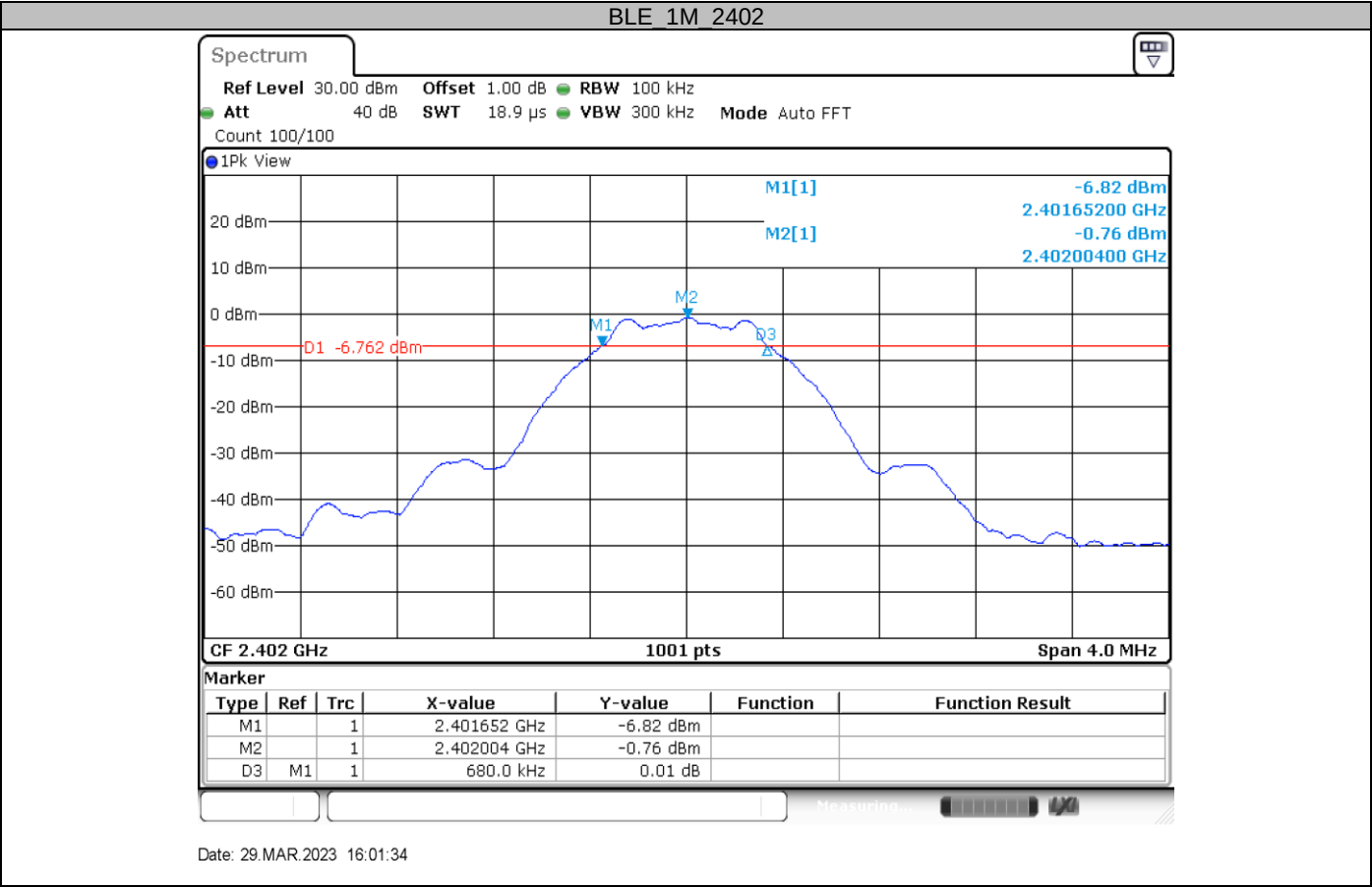
≥ 500

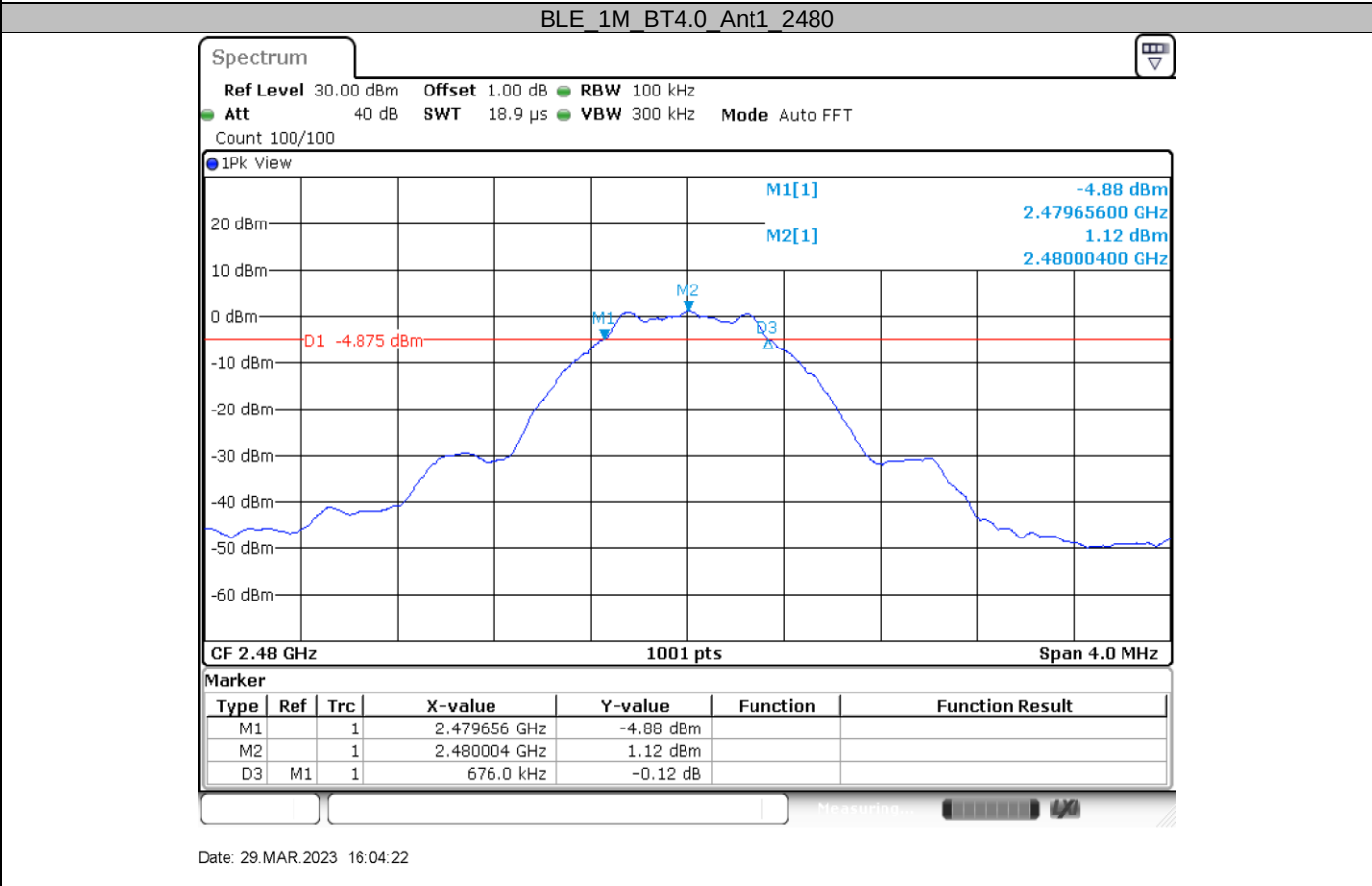
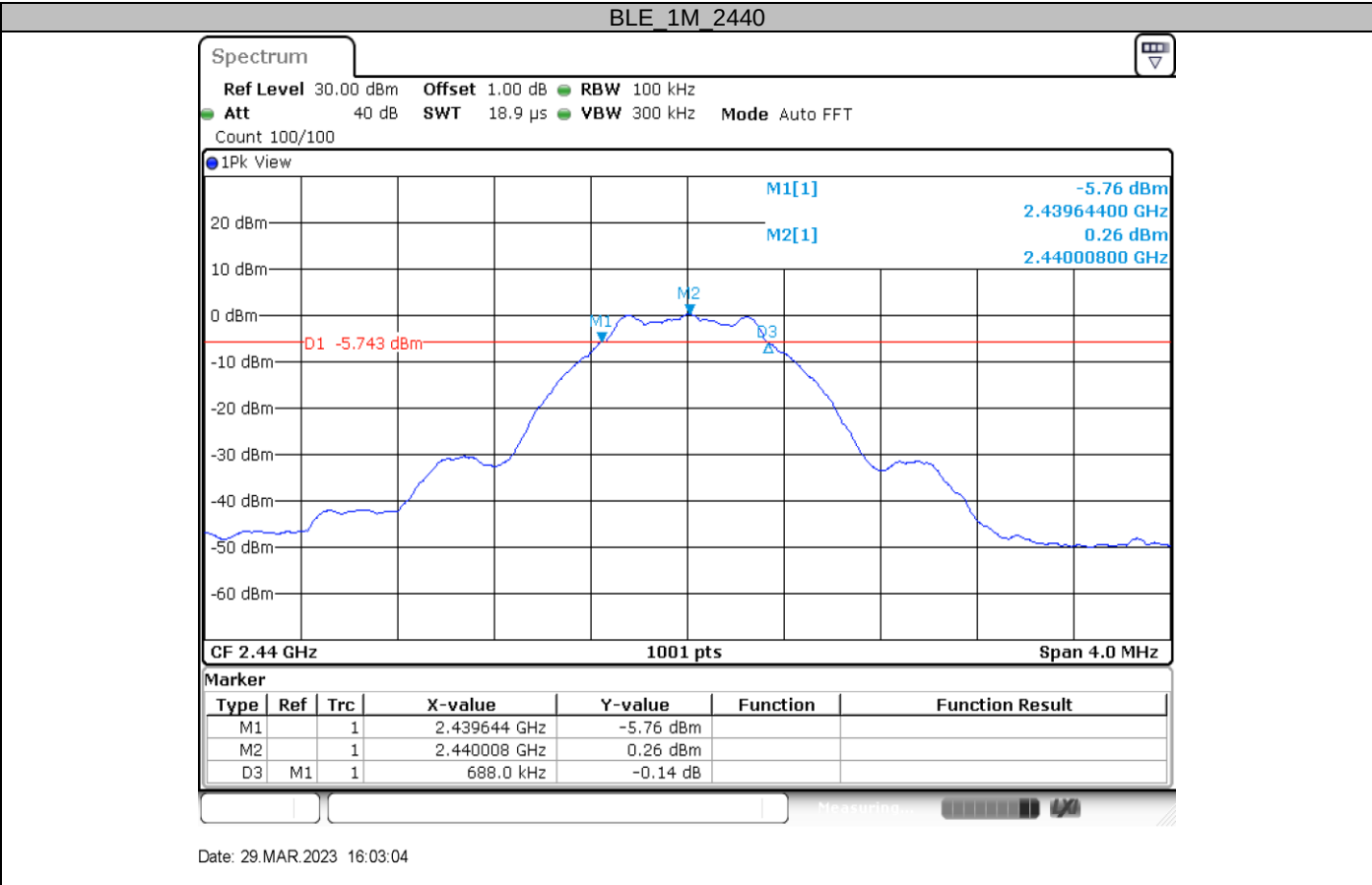
Test result

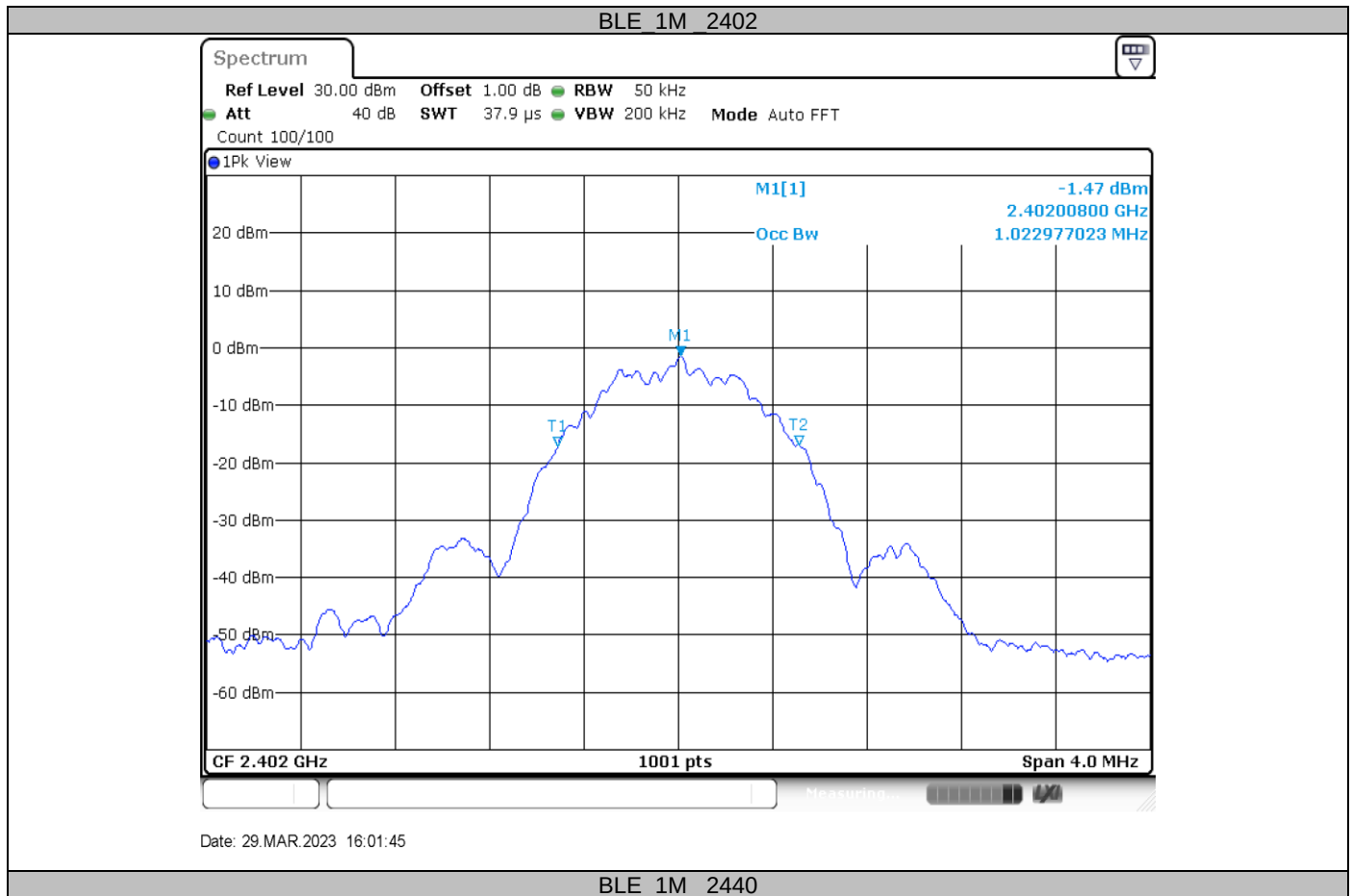
Channel (MHz)	6dB bandwidth (MHz)	99% bandwidth (MHz)	Limit	Verdict
2402	0.680	1.023	---	PASS
2440	0.688	1.023	---	PASS
2480	0.676	1.027	---	PASS



6 dB Bandwidth





99% Bandwidth



BLE_1M_2480



9.4 Spurious RF Conducted Emissions

Test Method

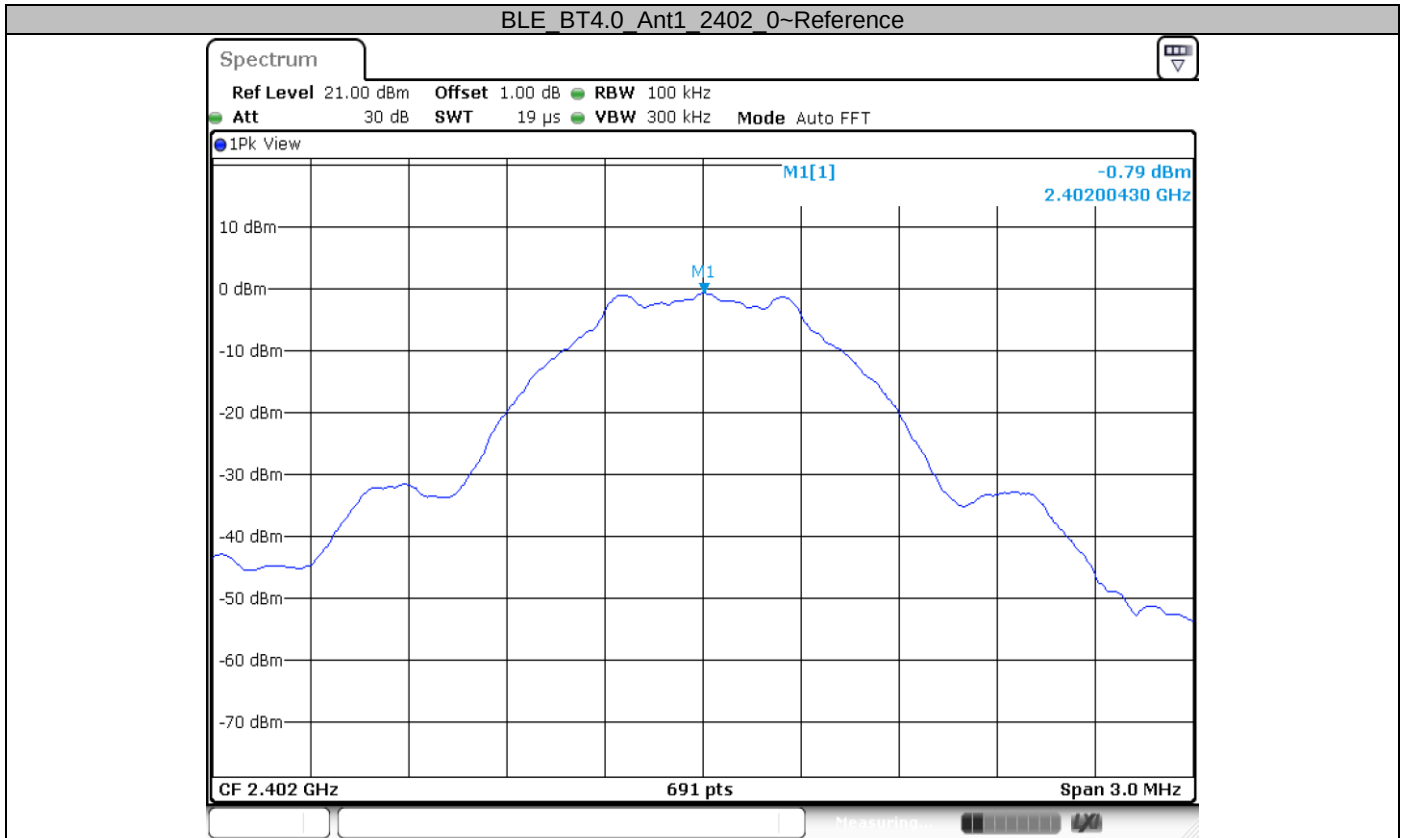
1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency

Limit

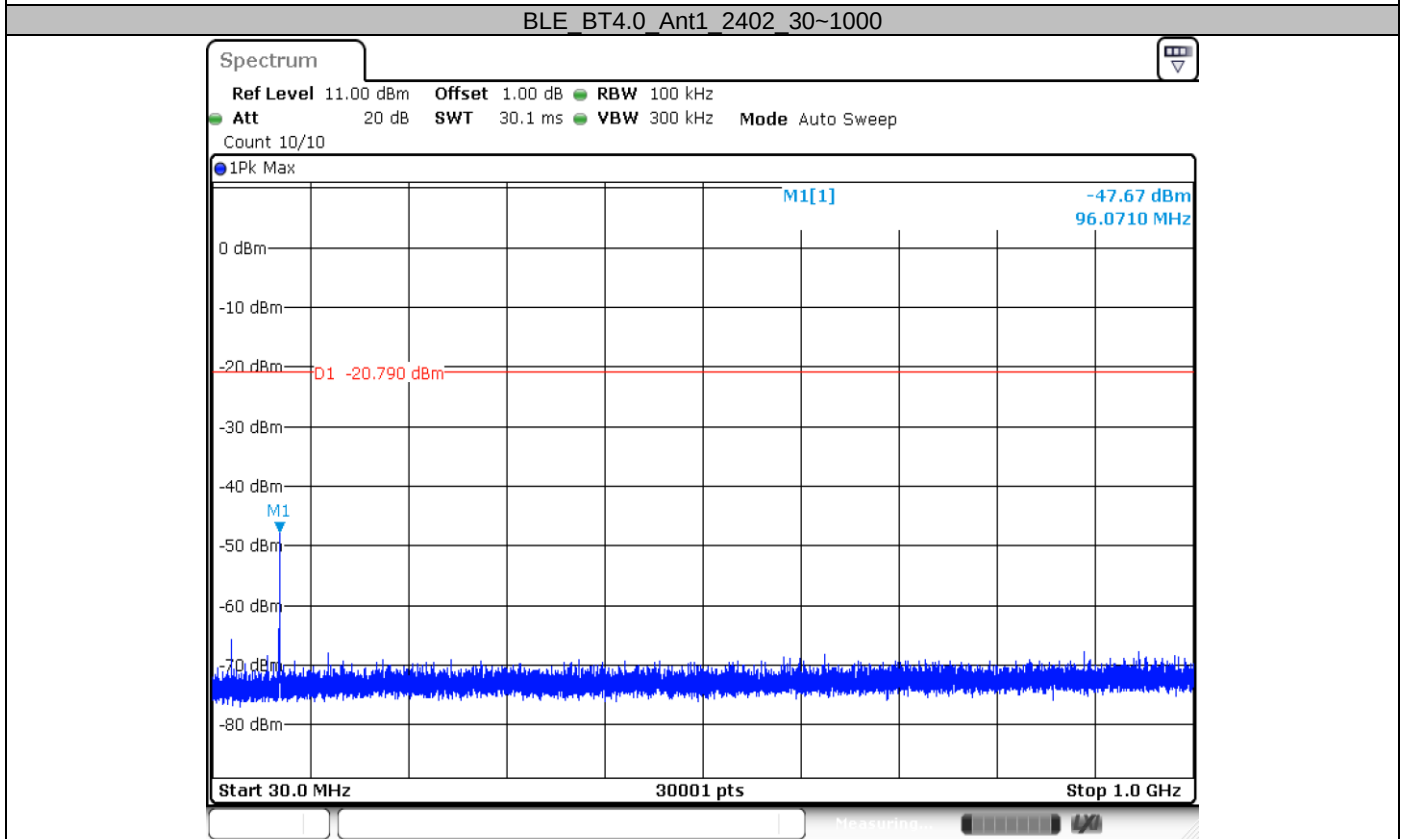
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

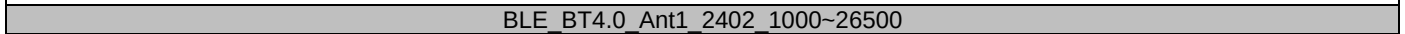
Channel	Frequency Range (MHz)	Reference Level	Result (dBm)	Limit (dBm)	Verdict
2402	Reference	-0.79	-0.79	---	PASS
	30~1000	30~1000	-47.67	≤ -20.79	PASS
	1000~26500	1000~26500	-44.78	≤ -20.79	PASS
2440	Reference	0.20	0.20	---	PASS
	30~1000	30~1000	-60.16	≤ -19.8	PASS
	1000~26500	1000~26500	-48.27	≤ -19.8	PASS
2480	Reference	1.14	1.14	---	PASS
	30~1000	30~1000	-67.75	≤ -18.86	PASS
	1000~26500	1000~26500	-46.23	≤ -18.86	PASS

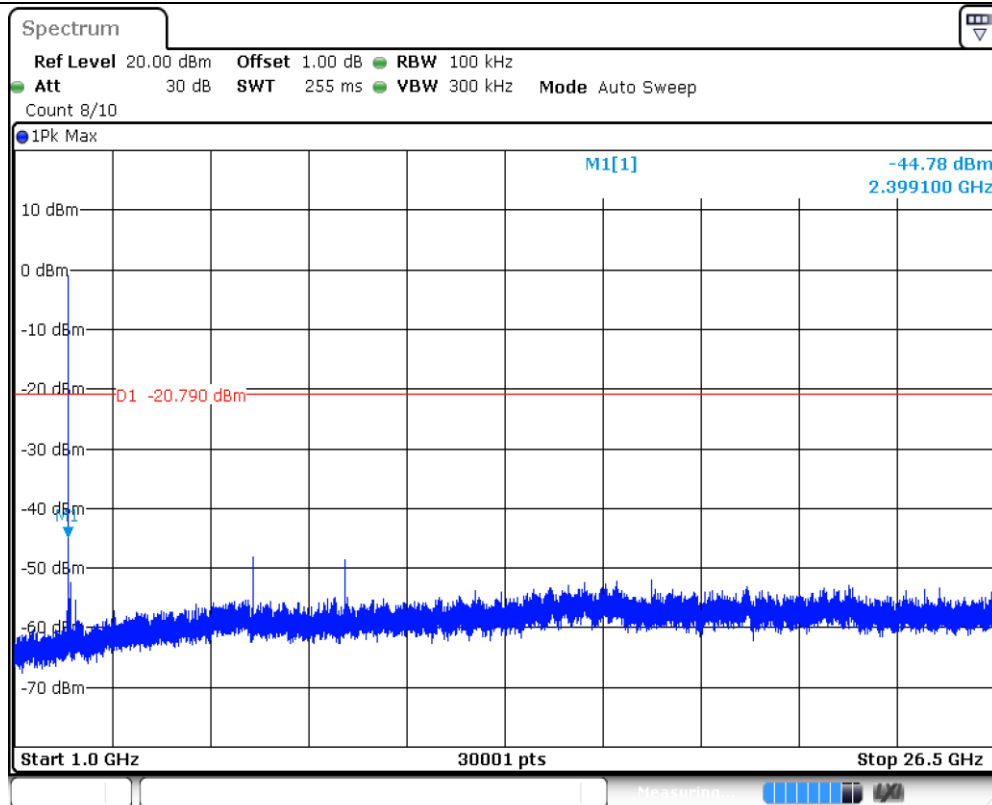


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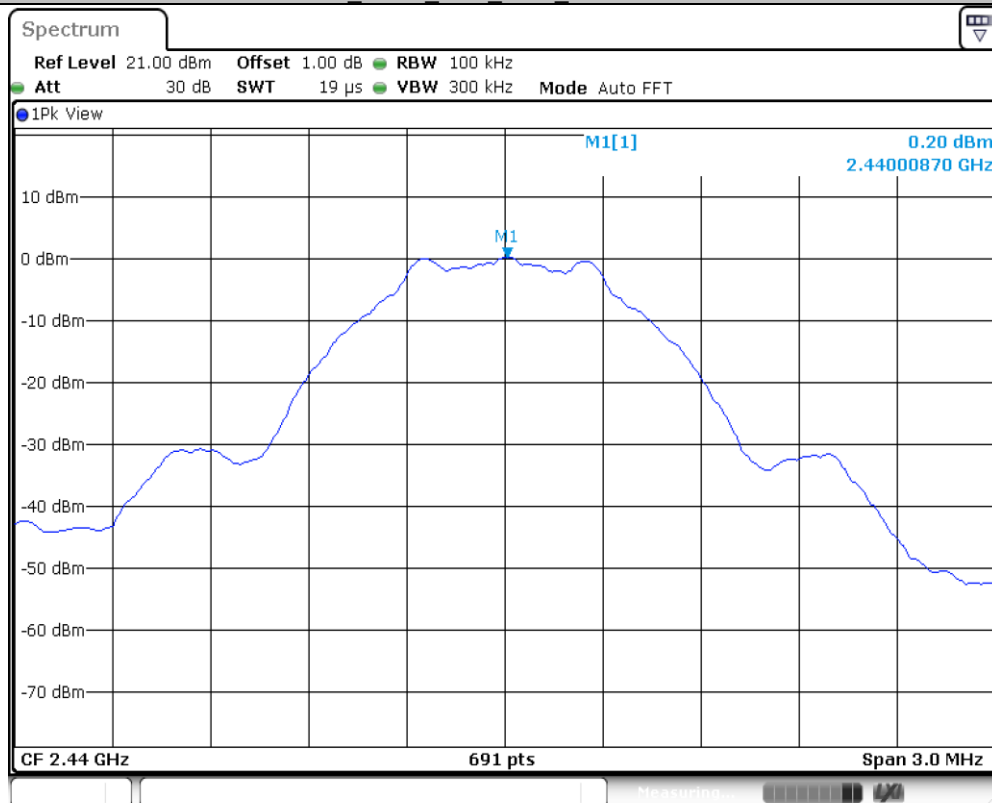
Date: 29.MAR.2023 16:02:17





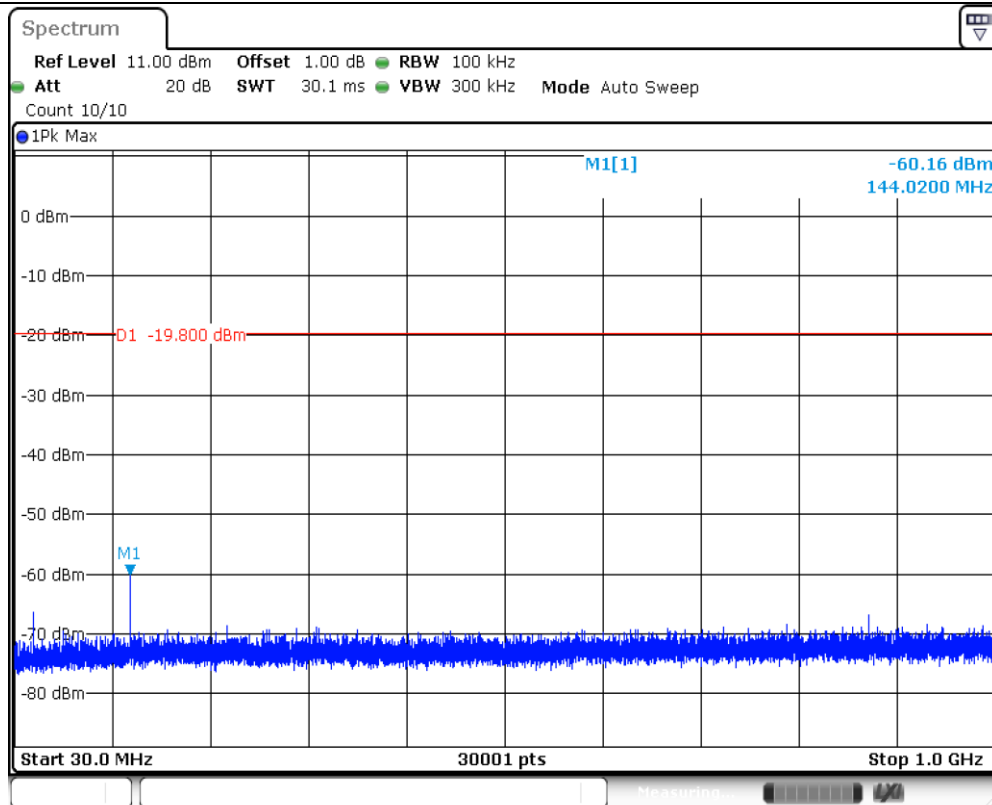
Date: 29.MAR.2023 16:02:25

BLE_BT4.0_Ant1_2440_0-Reference



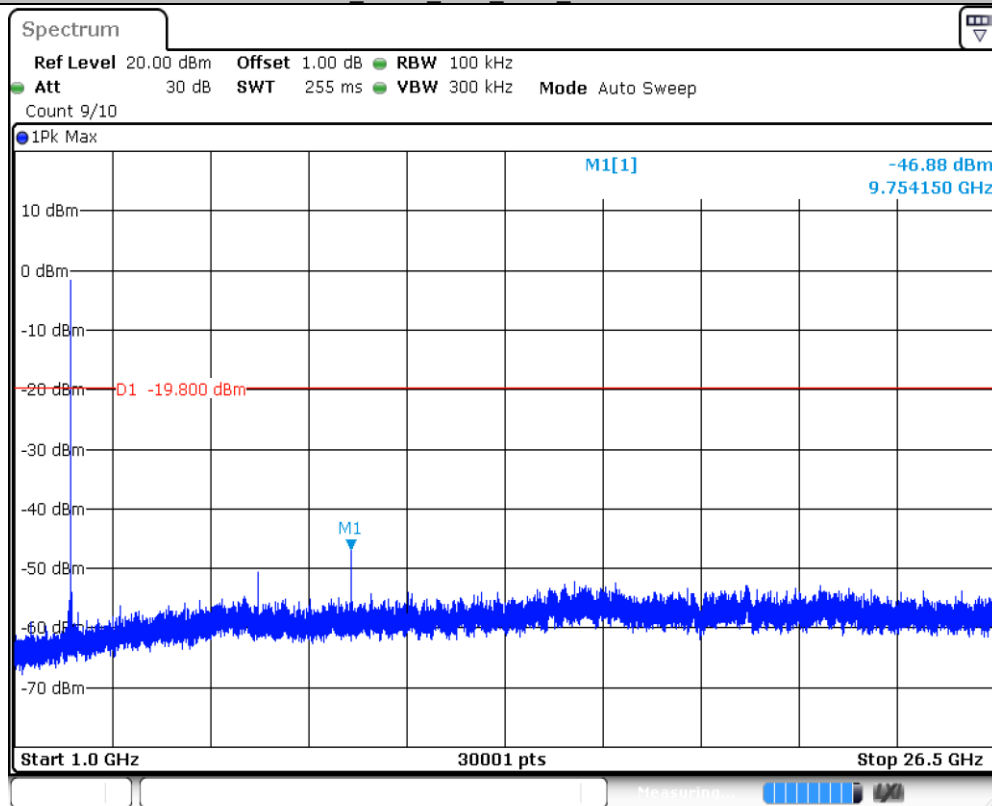
Date: 29.MAR.2023 16:03:32

BLE_BT4.0_Ant1_2440_30~1000



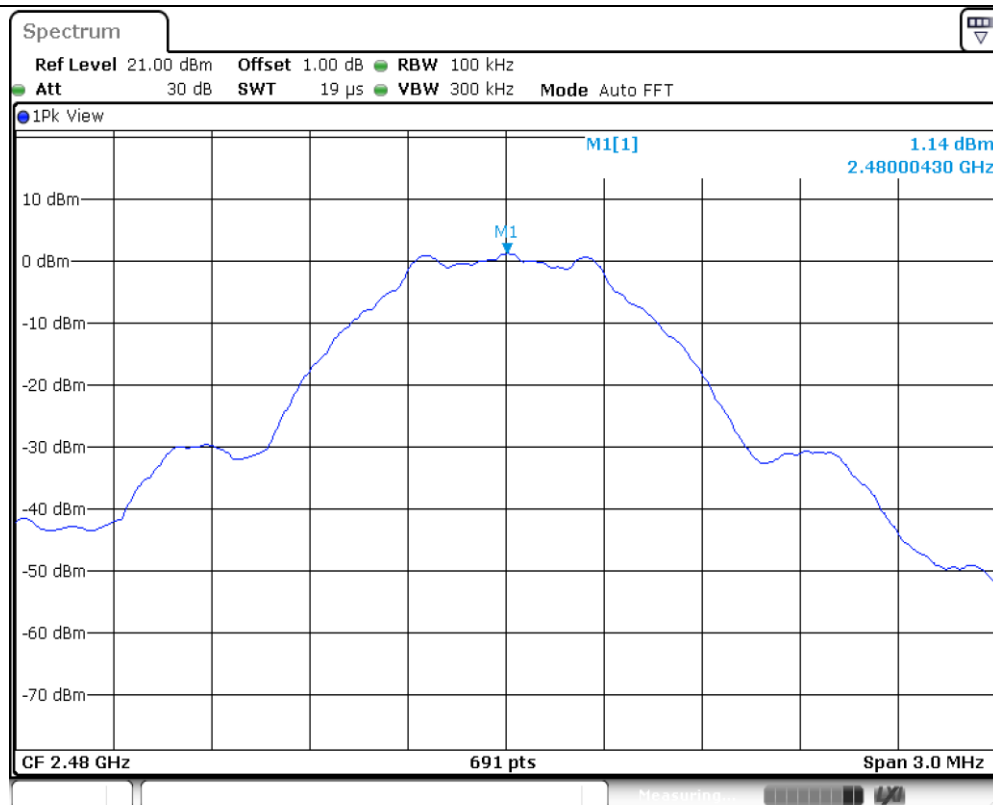
Date: 29.MAR.2023 16:03:38

BLE BT4.0 Ant1 2440 1000~26500



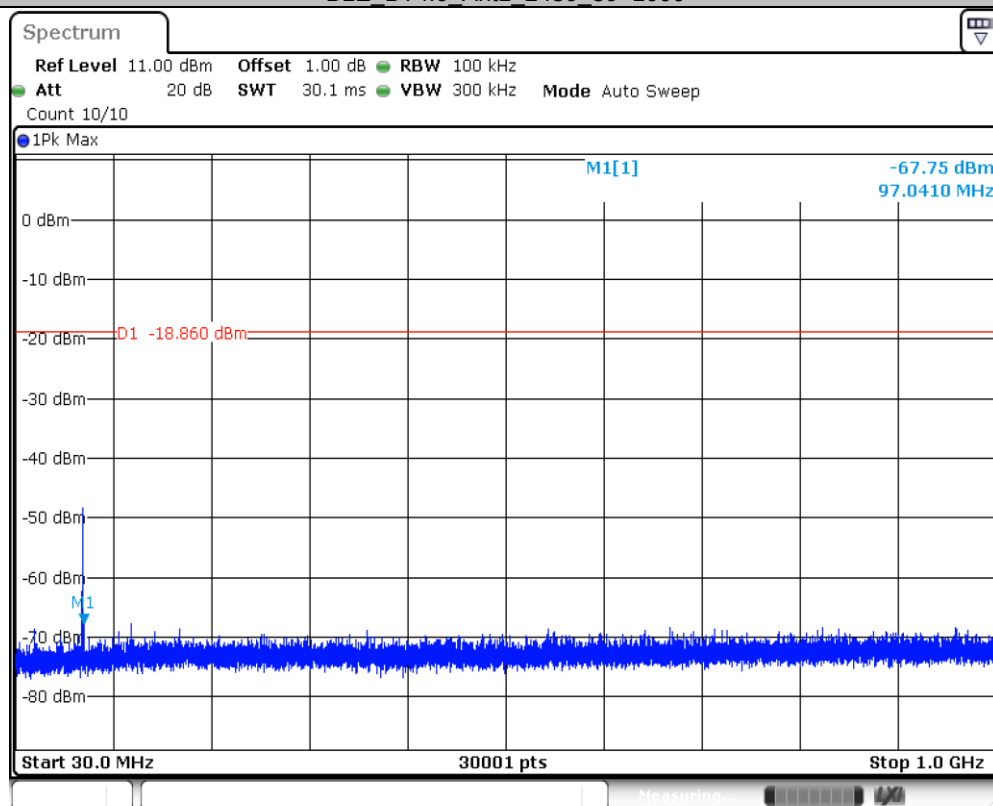
Date: 29.MAR.2023 16:03:46

BLE BT4.0 Ant1 2480 0-Reference



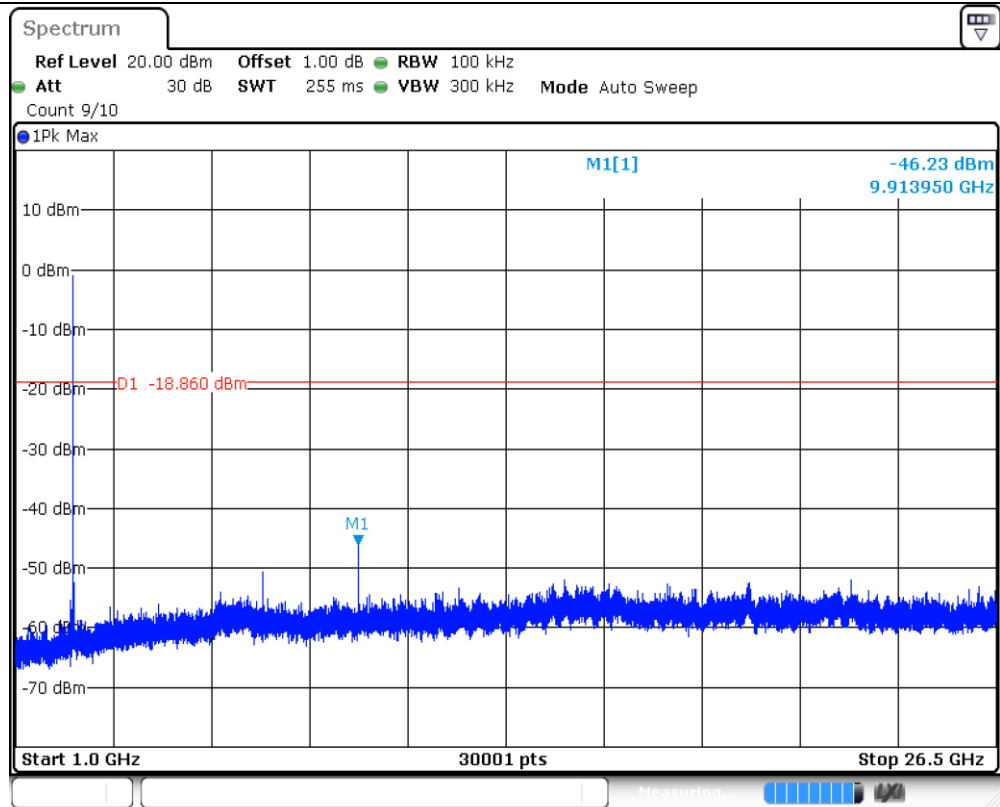
Date: 29.MAR.2023 16:04:59

BLE_BT4.0_Ant1_2480_30~1000



Date: 29.MAR.2023 16:05:05

BLE_BT4.0_Ant1_2480_1000~26500



Date: 29.MAR.2023 16:05:13

9.5 Band Edge

Test Method

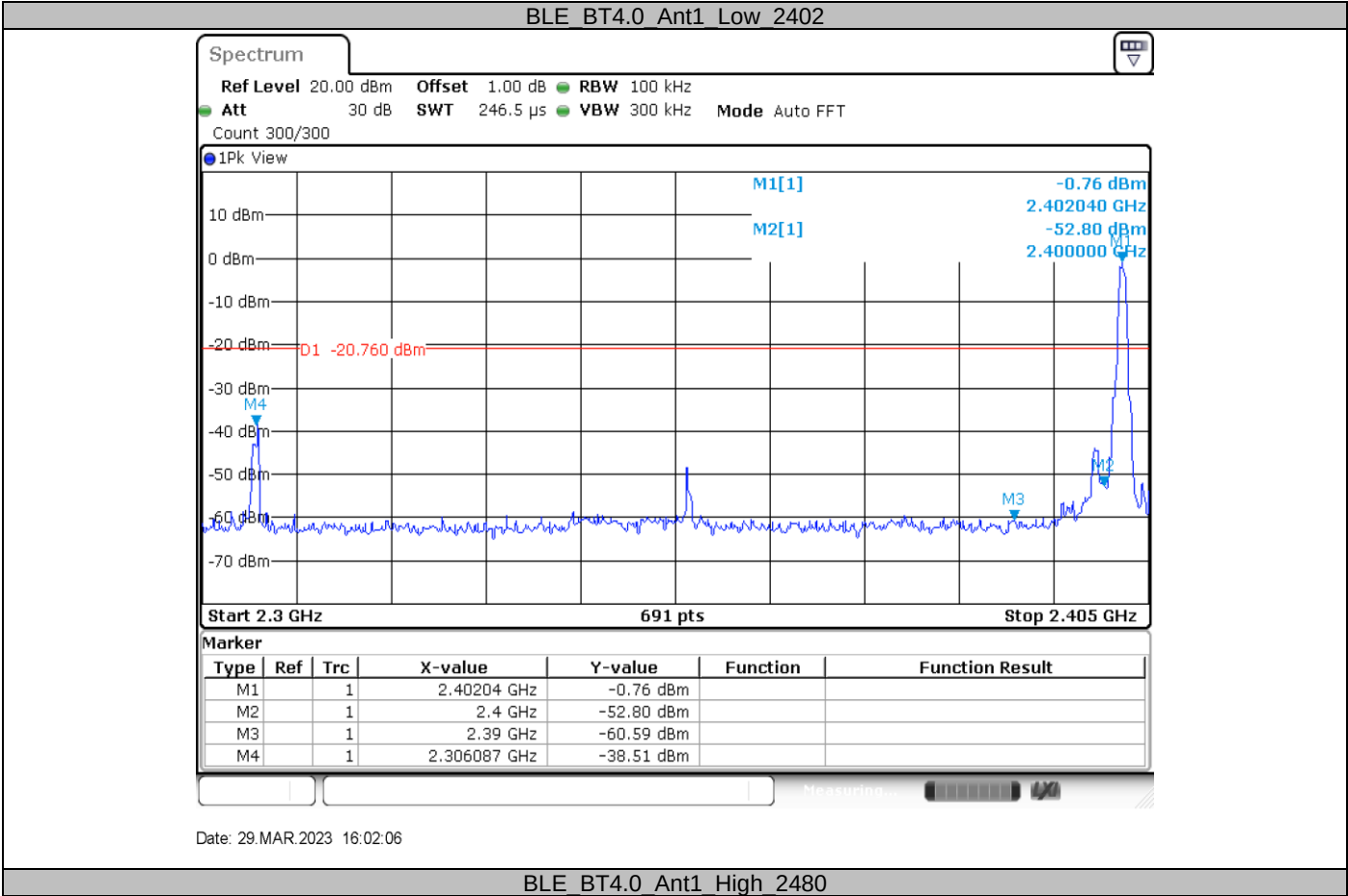
1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency
6. Set to the maximum power setting and enable the EUT hopping mode, repeat the test.

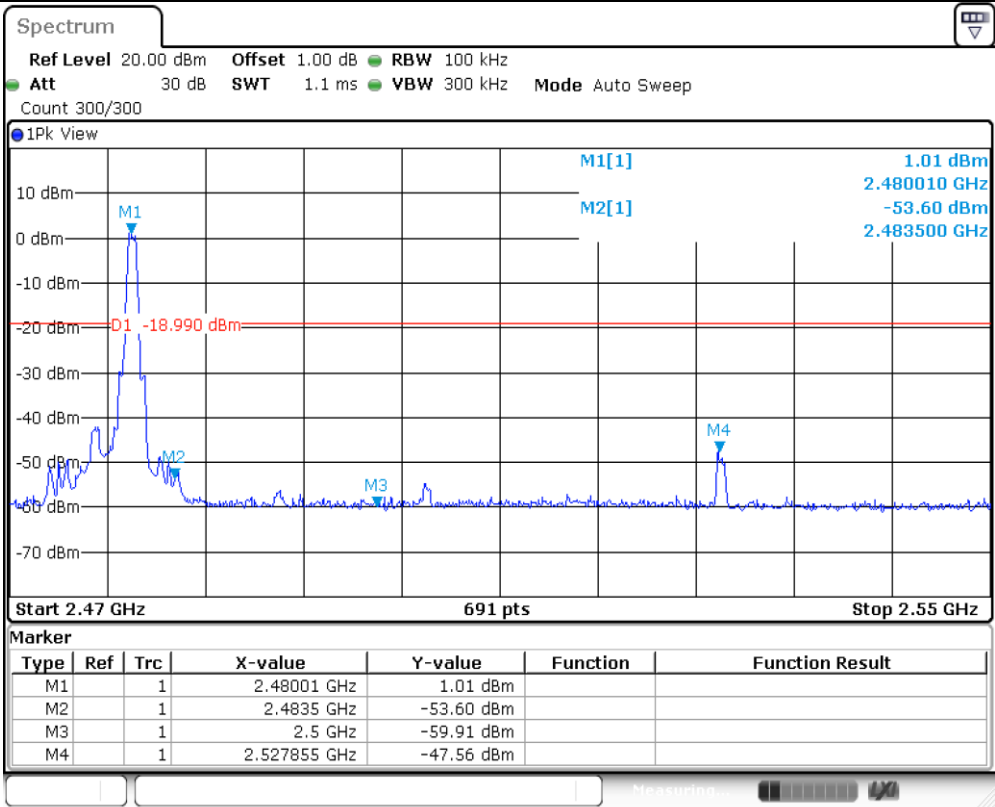
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



Band edge testing





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9.6 Spurious Radiated Emissions for Transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Set to the maximum power setting and enable the EUT to transmit continuously.
3. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
4. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
6. Use the following spectrum analyzer settings According to C63.10:
 - (1) Span shall be wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz, VBW= 300kHz for $f < 1$ GHz; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW=1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
VBW = 10 Hz, when duty cycle is no less than 98 percent.
VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
7. Repeat above procedures until all frequencies measured were complete.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results were added to a correction factor ($20\log(1/\text{duty cycle})$).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Spurious radiated emissions for transmitter

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205 & RSS-GEN 8.10, must comply with the radiated emission limits specified in section 15.209 & RSS-Gen 6.13.

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength $\text{dB}\mu\text{V/m}$	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

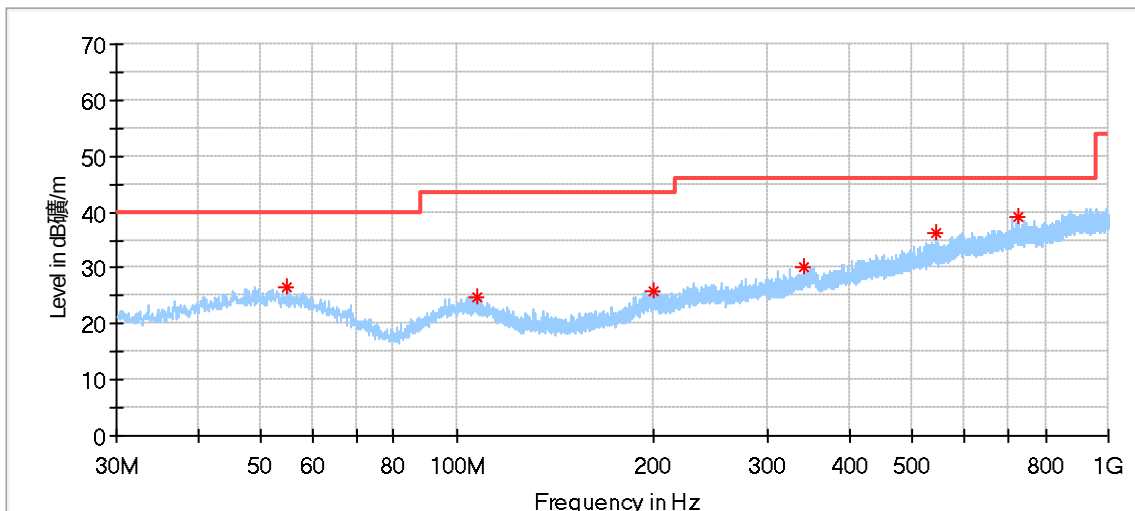
Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

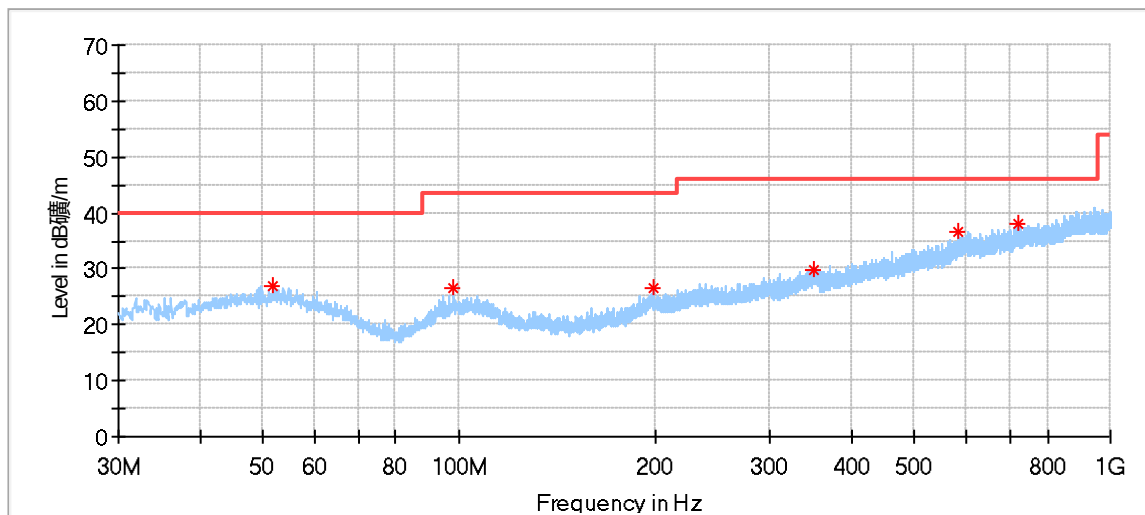
The only worse case (1 Mbps) test result is listed in the report.

Transmitting spurious emission test result as below:

Below 1G:

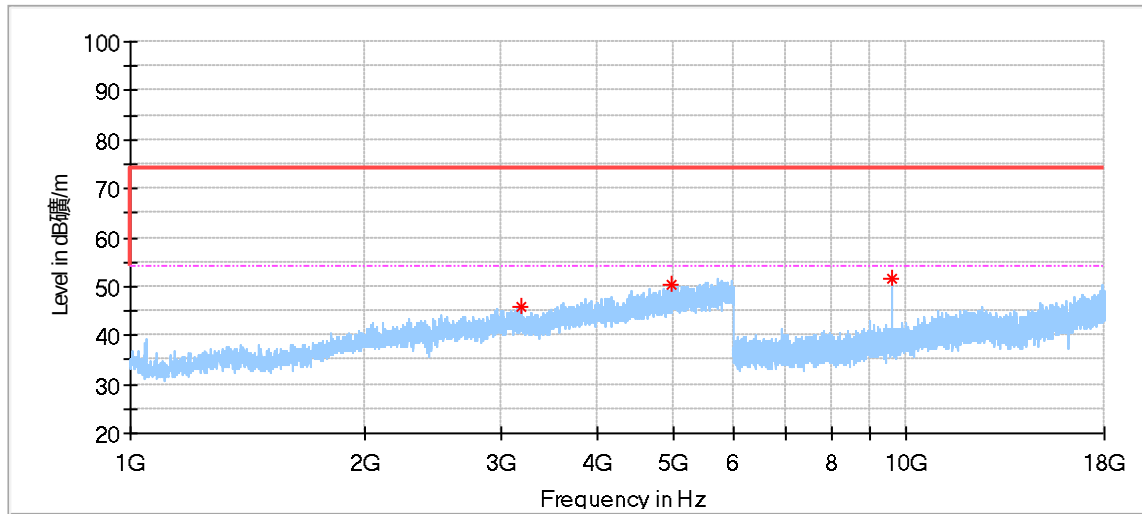


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.950556	26.56	40.00	13.44	200.0	H	83.0	20.34
107.707778	24.82	43.50	18.68	100.0	H	45.0	18.58
199.965556	25.85	43.50	17.65	200.0	H	56.0	18.86
341.855000	30.26	46.00	15.74	200.0	H	355.0	22.58
545.393333	36.11	46.00	9.89	200.0	H	355.0	26.08
727.699444	39.07	46.00	6.93	100.0	H	45.0	29.00

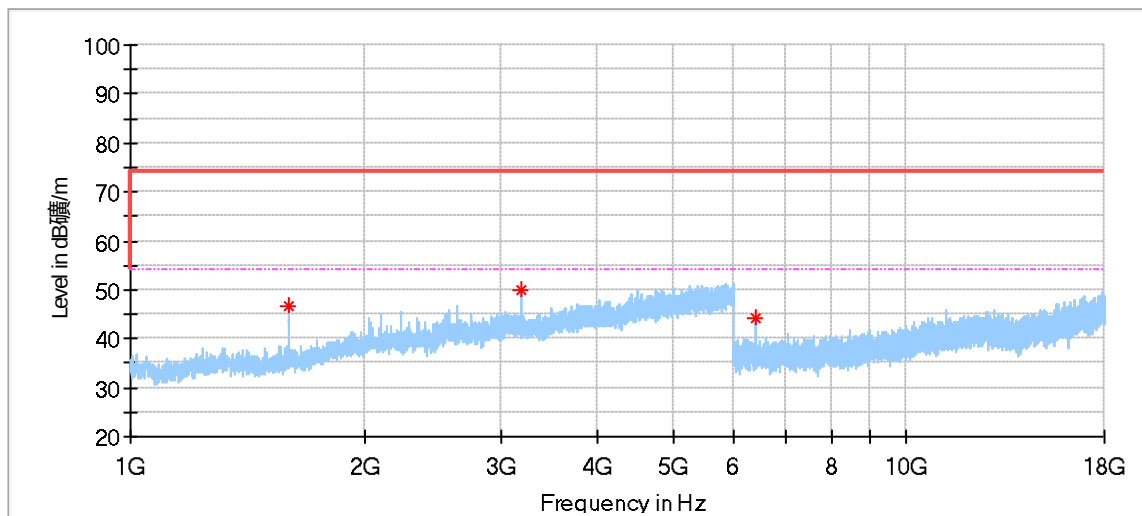


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.932778	26.91	40.00	13.09	100.0	V	195.0	20.63
98.169444	26.43	43.50	17.07	100.0	V	231.0	18.50
198.348889	26.73	43.50	16.77	200.0	V	298.0	19.05
349.291667	29.89	46.00	16.11	200.0	V	65.0	23.05
585.378889	36.55	46.00	9.45	100.0	V	258.0	27.32
723.065000	38.00	46.00	8.00	200.0	V	194.0	28.89

Low channel 2402MHz:

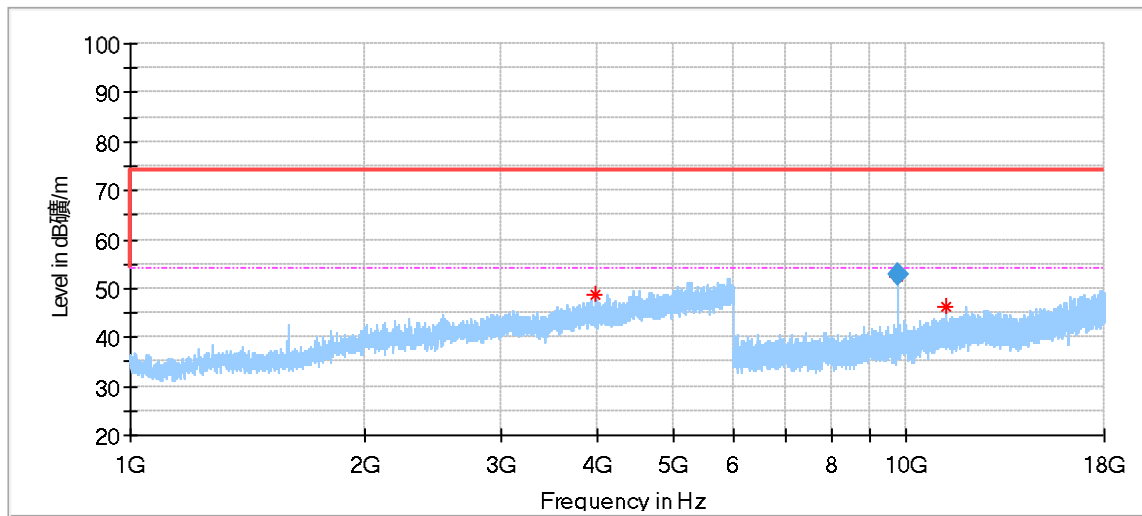


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3191.000000	45.99	74.00	28.01	150.0	H	164.0	0.57
4992.000000*	50.22	74.00	23.78	150.0	H	205.0	6.58
9602.000000	51.73	74.00	22.27	150.0	H	134.0	11.83

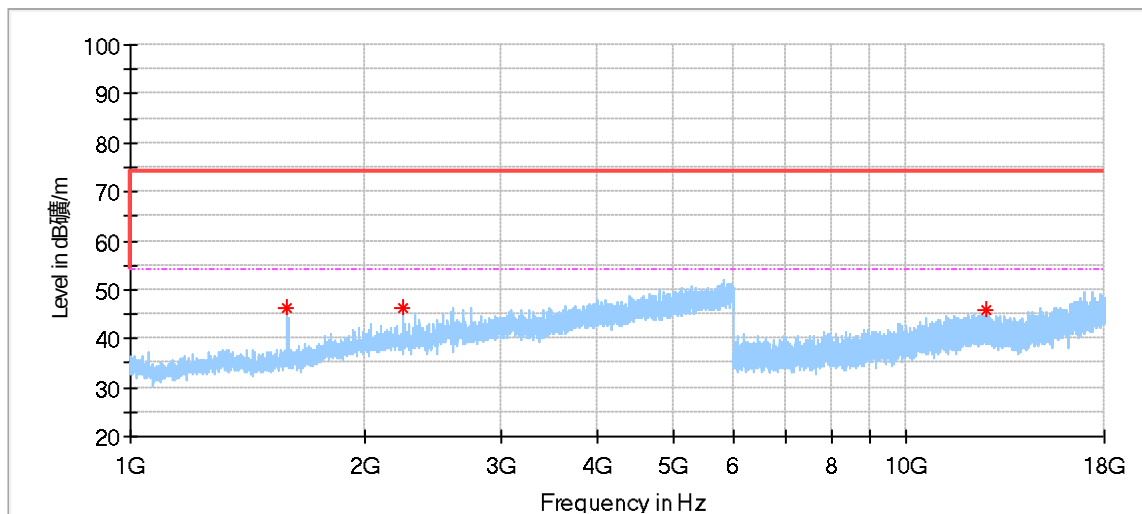


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1598.500000*	46.82	74.00	27.18	150.0	V	336.0	-7.04
3195.000000	49.90	74.00	24.10	150.0	V	343.0	0.55
6391.000000	44.29	74.00	29.71	150.0	V	356.0	7.83

Middle channel 2440MHz

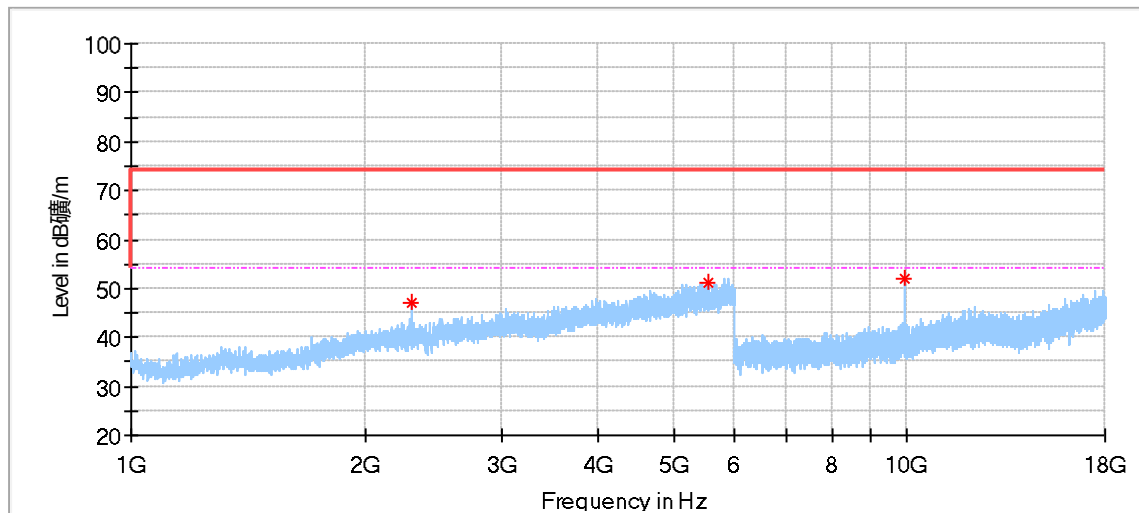


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3985.500000*	48.64	74.00	25.36	150.0	H	297.0	3.34
9758.000000	52.40	74.00	21.60	150.0	H	45.0	12.16
11267.500000*	46.18	74.00	27.82	150.0	H	144.0	14.87
Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9758.000000*	52.96	54.00	1.04	150.0	H	45.0	12.16

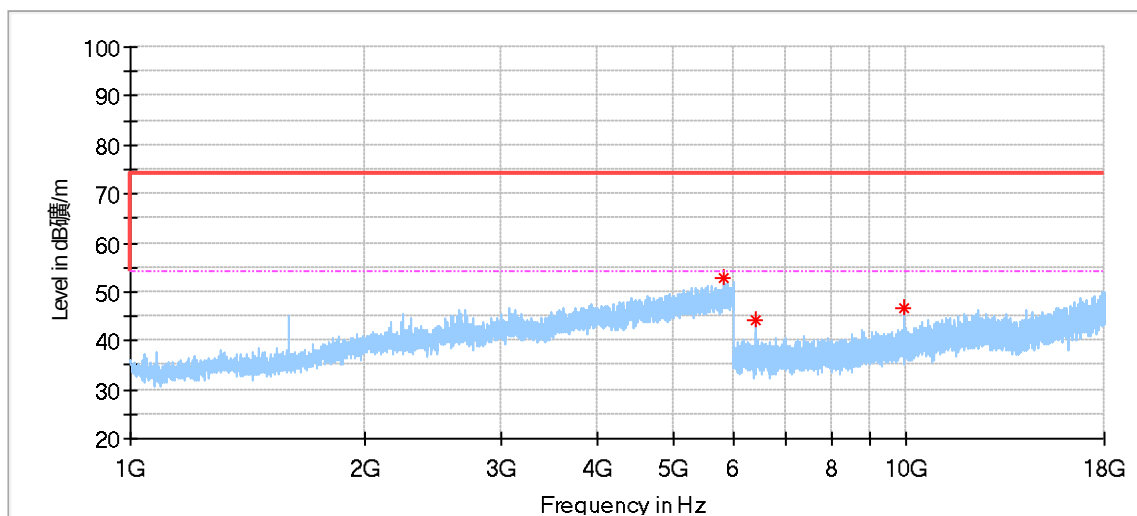


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1594.000000*	46.21	74.00	27.79	150.0	V	9.0	-7.03
2241.000000*	46.26	74.00	27.74	150.0	V	318.0	-2.66
12698.000000*	46.00	74.00	28.00	150.0	V	296.0	16.29

High channel 2480MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2293.500000*	46.98	74.00	27.02	150.0	H	271.0	-2.40
5540.000000	51.34	74.00	22.66	150.0	H	12.0	7.80
9914.000000	52.03	74.00	21.97	150.0	H	273.0	12.21



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5800.500000	52.93	74.00	21.07	150.0	V	51.0	8.39
6389.500000	44.04	74.00	29.96	150.0	V	232.0	7.84
9914.000000	46.52	74.00	27.48	150.0	V	252.0	12.21

Remark:

- (1) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within frequency range 9kHz-30MHz, 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.
- (3) The report only shows the worst test data.
- (4) Level= Reading Level + Correction Factor
- (5) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

List of Test Instruments

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2023-5-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2023-7-12
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2023-5-9
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2023-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2023-5-28
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2023-7-12
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2023-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.3 5.02	N/A	N/A

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2023-5-27
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2023-5-27
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2023-5-27
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35. 02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15

Conducted RF Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2023-5-27
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432 or ENV4200)	3.57dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.08dB; Vertical: 5.09dB;
Uncertainty for Radiated Emission 18000MHz-40000MHz	Horizontal: 4.52dB; Vertical: 4.51dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---