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TEST REPORT

Report No.: **CTC20231811E02**

FCC ID.....: **2AWAA-T12M**

Applicant.....: **ZHEJIANG DALI TECHNOLOGY CO., LTD**

Address.....: **NO639 Binkang Road, Hangzhou, P.R.CHINA, 310053**

Manufacturer.....: **ZHEJIANG DALI TECHNOLOGY CO., LTD**

Address.....: **NO639 Binkang Road, Hangzhou, P.R.CHINA, 310053**

Product Name.....: **Thermal Imaging Camera**

Trade Mark.....: **/**

Model/Type reference.....: **T12-M**

Listed Model(s): **T12, IR12, IR12-M**

Standard.....: **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample...: **Sept. 06, 2023**

Date of testing.....: **Sept. 07, 2023 ~ Oct. 31, 2023**

Date of issue.....: **Nov. 01, 2023**

Result.....: **PASS**

Compiled by:

(Printed name+signature)

Terry Su

Supervised by:

(Printed name+signature)

Eric Zhang

Approved by:

(Printed name+signature)

Totti Zhao

Testing Laboratory Name.....: **CTC Laboratories, Inc.**

Address.....: **1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,
Shenzhen, Guangdong, China**

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

[RSS 247 Issue 2](#): Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSS) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices.

[RSS-Gen Issue 5](#): General Requirements for Compliance of Radio Apparatus.

1.2. Report version

Revised No.	Date of issue	Description
01	Nov. 01, 2023	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 2				
Test Item	Standard Section		Result	Test Engineer
	FCC	IC		
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Cecilia Luo
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Alicia Liu
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	RSS 247 5.5	Pass	Alicia Liu
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Alicia Liu
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Alicia Liu
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Alicia Liu
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5&RSS-Gen 8.9	Pass	Alicia Liu

Note: "N/A" is not applicable.

The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.08 dB	(1)
Radiated Emissions 30~1000MHz	4.51 dB	(1)
Radiated Emissions 1~18GHz	5.84 dB	(1)
Radiated Emissions 18~40GHz	6.12 dB	(1)
Occupied Bandwidth	-----	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	ZHEJIANG DALI TECHNOLOGY CO., LTD
Address:	NO639 Binkang Road, Hangzhou, P.R.CHINA, 310053
Manufacturer:	ZHEJIANG DALI TECHNOLOGY CO., LTD
Address:	NO639 Binkang Road, Hangzhou, P.R.CHINA, 310053

2.2. General Description of EUT

Product Name:	Thermal Imaging Camera
Trade Mark:	/
Model/Type reference:	T12-M
Listed Model(s):	T12, IR12, IR12-M
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is sales channels
Power supply:	5Vdc from USB Cable 3.6Vdc from 6200mAh Li-ion Battery
Adapter Model:	CD104 Input: 100-240V~ 50/60Hz 0.6A Output: 5Vdc/3.4A
Hardware version:	/
Software version:	/
BT 5.2/ BLE	
Modulation:	GFSK
Data rate:	1Mbps, 2Mbps
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC Antenna
Antenna gain:	2.8dBi Max



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Versions	/	/
Qualcomm Radio Control Tool	2.5.0	/	/



2.4. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT BLE, 40 channels are provided to the EUT. Channels 00/19/39 were selected for testing. Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2404
:	:
18	2438
19	2440
20	2442
:	:
38	2478
39	2480

Note: The display in grey were the channel selected for testing.

Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



2.5. Measurement Instruments List

RF Test System					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024
2	Spectrum Analyzer	R&S	FSV40-N	101654	Aug. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 16, 2023
4	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 16, 2023
5	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024
6	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 16, 2023
7	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 16, 2023
8	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 16, 2023
9	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 16, 2023
10	Wideband Radio Communication Tester	R&S	CMW500	102257	May 25, 2024
11	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 16, 2023
12	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2024
13	RF Control Unit	Tonscend	JS0806-2	/	Aug. 22, 2024
14	Test Software	Tonscend	JS1120-3	V3.3.38	/

Radiated Emission (3m chamber 2)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 07, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 16, 2023
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024
5	Pre-Amplifier	SONOMA	310	186194	Dec. 16, 2023
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 16, 2023
7	Test Receiver	R&S	ESCI7	100967	Dec. 16, 2023
8	3m chamber 2	Frankonia	EE025	/	Oct. 23, 2024
9	Test Software	FARA	EZ-EMC	FA-03A2	/

Radiated Emission (3m chamber 3)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 16, 2023
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 16, 2023
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 16, 2023

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6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	LISN	R&S	ENV216	101112	Dec. 16, 2023
2	LISN	R&S	ENV216	101113	Dec. 16, 2023
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 16, 2023
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 16, 2023
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 16, 2023
6	Test Software	R&S	EMC32	6.10.10	/

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three year of the chamber

3. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

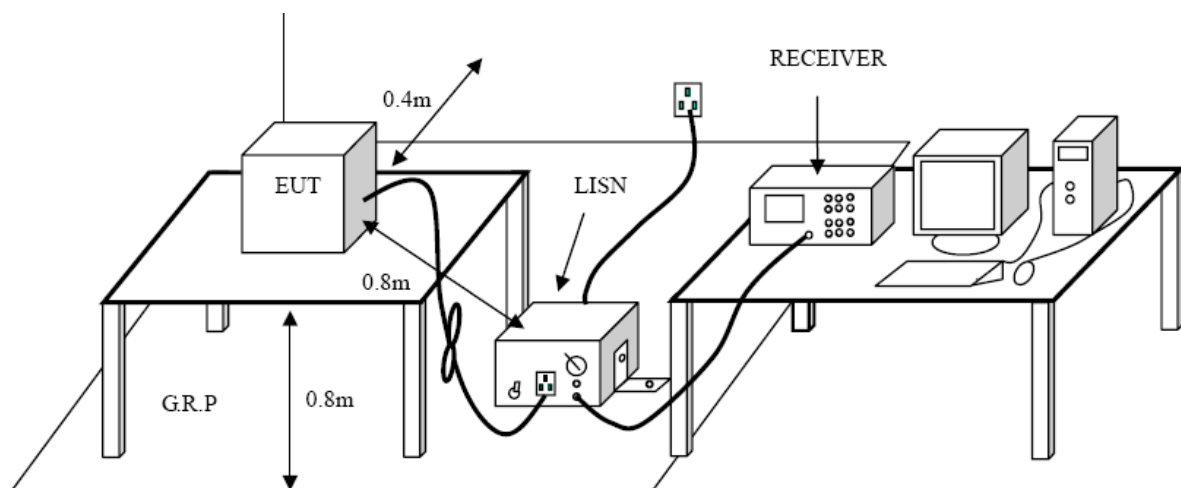
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration

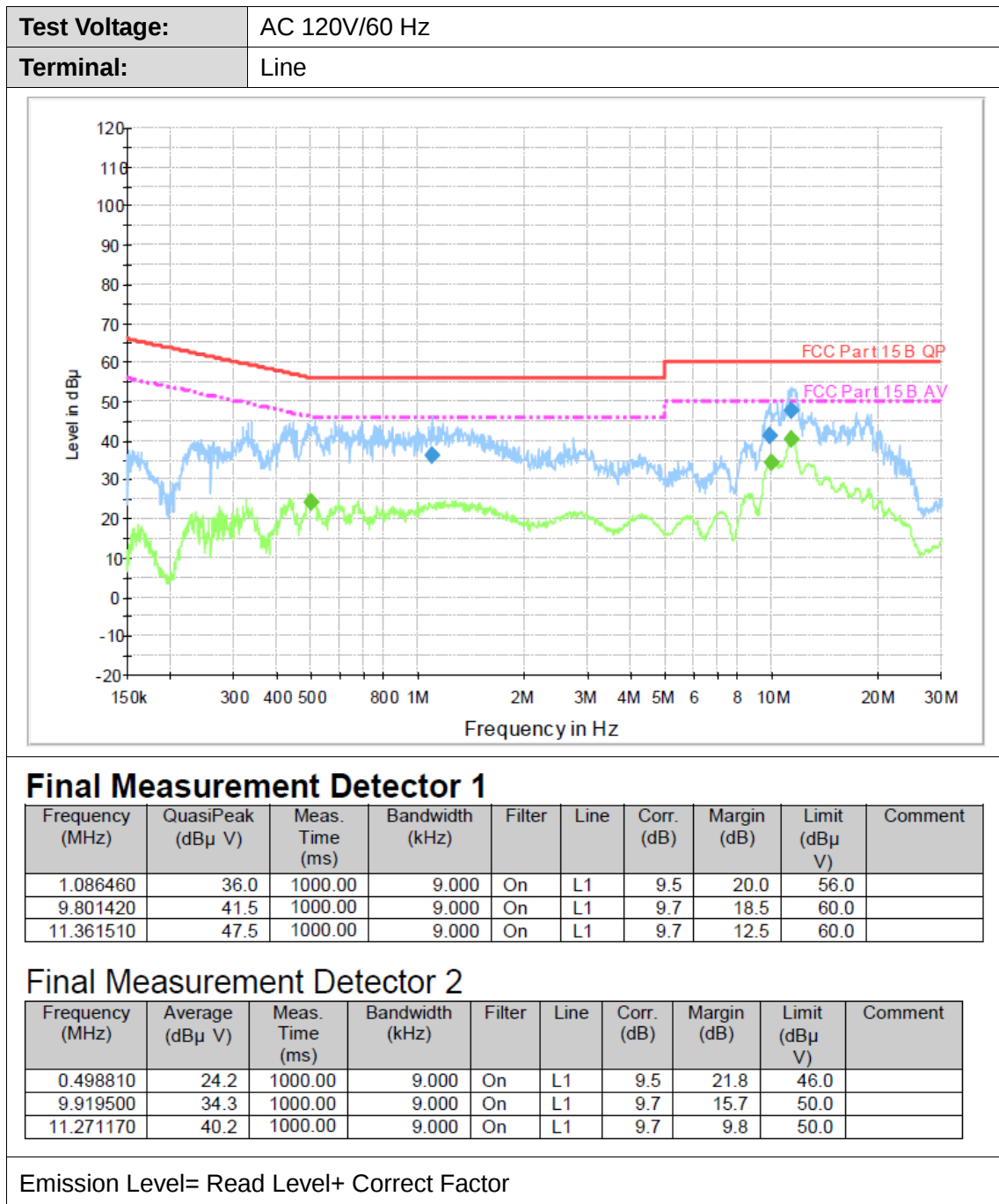


Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, Raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

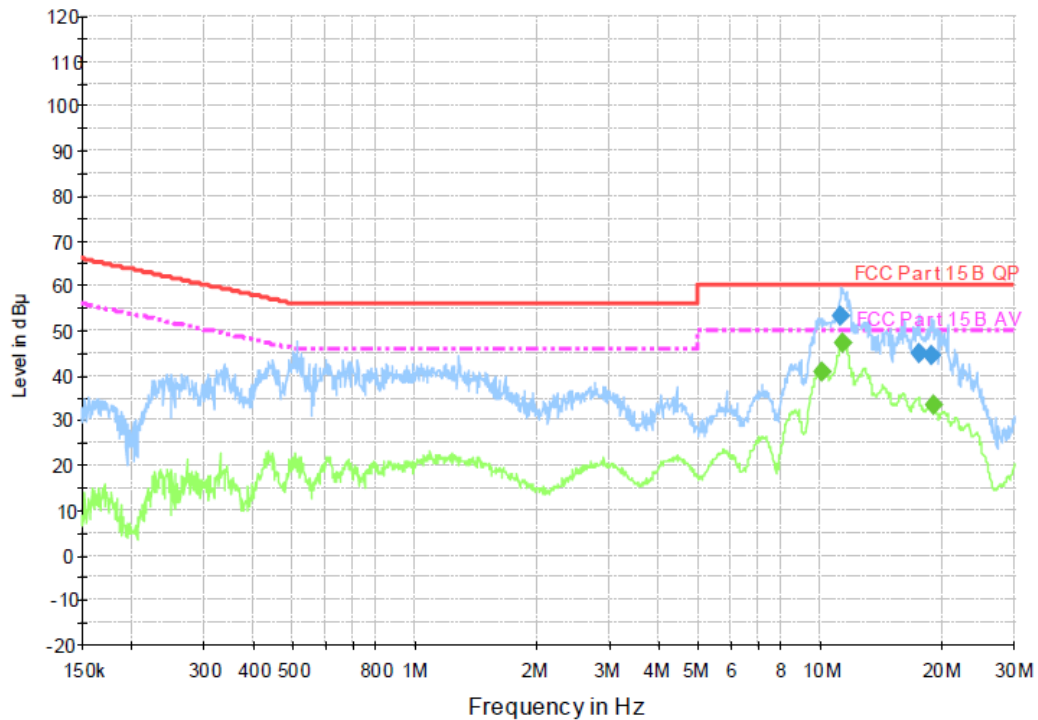
**Test Mode:**

Please refer to the clause 2.4.

Test Results



Test Voltage:	AC 120V/60 Hz
Terminal:	Neutral



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
11.226260	53.1	1000.00	9.000	On	N	9.6	6.9	60.0	
17.415800	44.9	1000.00	9.000	On	N	9.5	15.1	60.0	
18.713300	44.7	1000.00	9.000	On	N	9.5	15.3	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
10.119490	41.0	1000.00	9.000	On	N	9.6	9.0	50.0	
11.361510	47.2	1000.00	9.000	On	N	9.6	2.8	50.0	
18.938760	33.3	1000.00	9.000	On	N	9.5	16.7	50.0	

Emission Level= Read Level+ Correct Factor

3.2. Radiated Emission

Limit

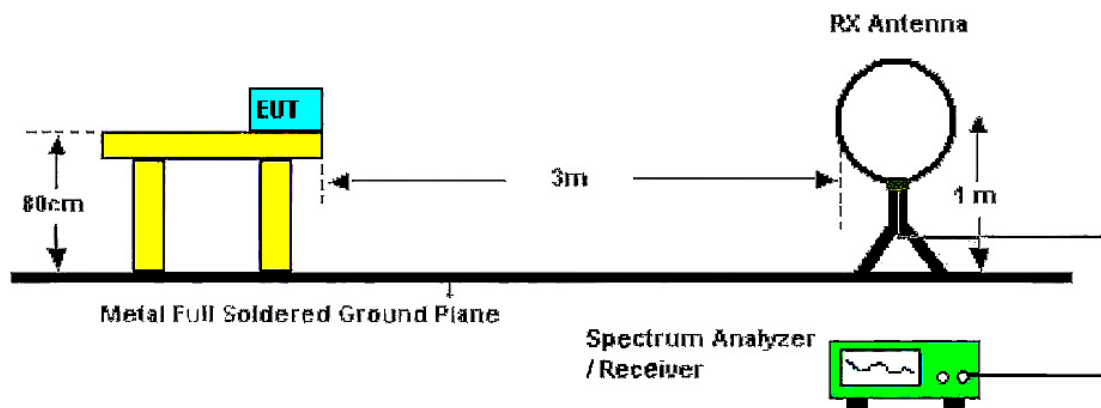
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9

Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

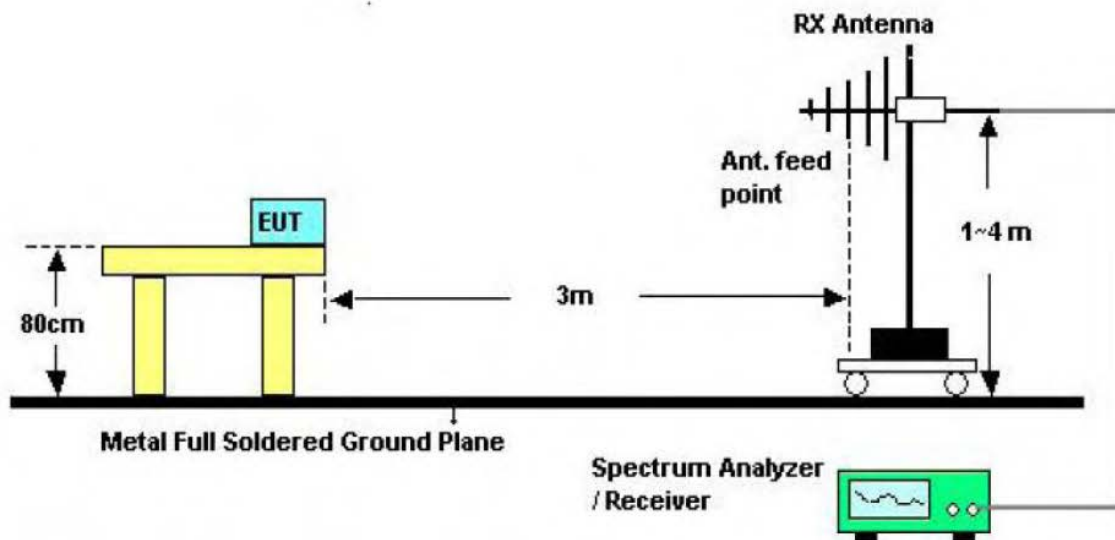
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup

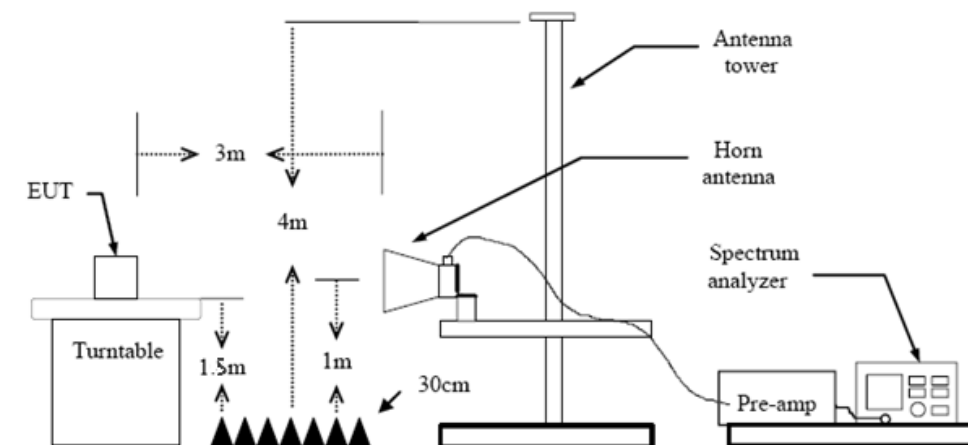
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Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
 5. Set to the maximum power setting and enable the EUT transmit continuously.
 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 30 MHz:
 9kHz – 150kHz, RBW=200Hz, VBW $\geq$ RBW, Sweep=auto, Detector function=peak, Trace=max hold;
 150kHz – 30MHz, RBW=9kHz, VBW $\geq$ RBW, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) 30 MHz - 1 GHz:
 RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1 GHz to 10th harmonic:
 RBW=1MHz, VBW=3MHz Peak detector for Peak value.
 RBW=1MHz, VBW $\geq$ 1/T Peak detector for Average value.
- Note 1: For the 1/T& Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

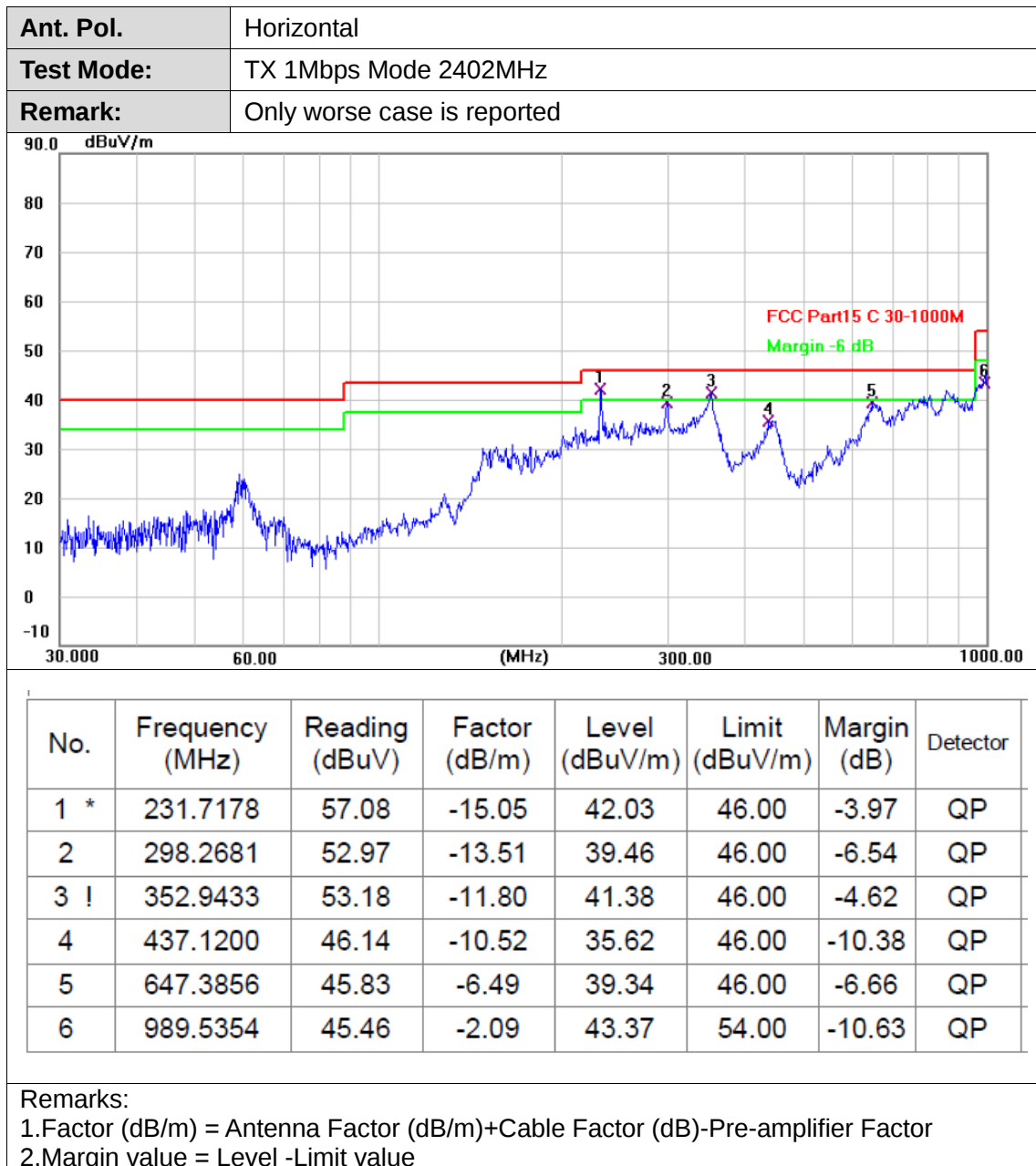
9 KHz~30 MHz

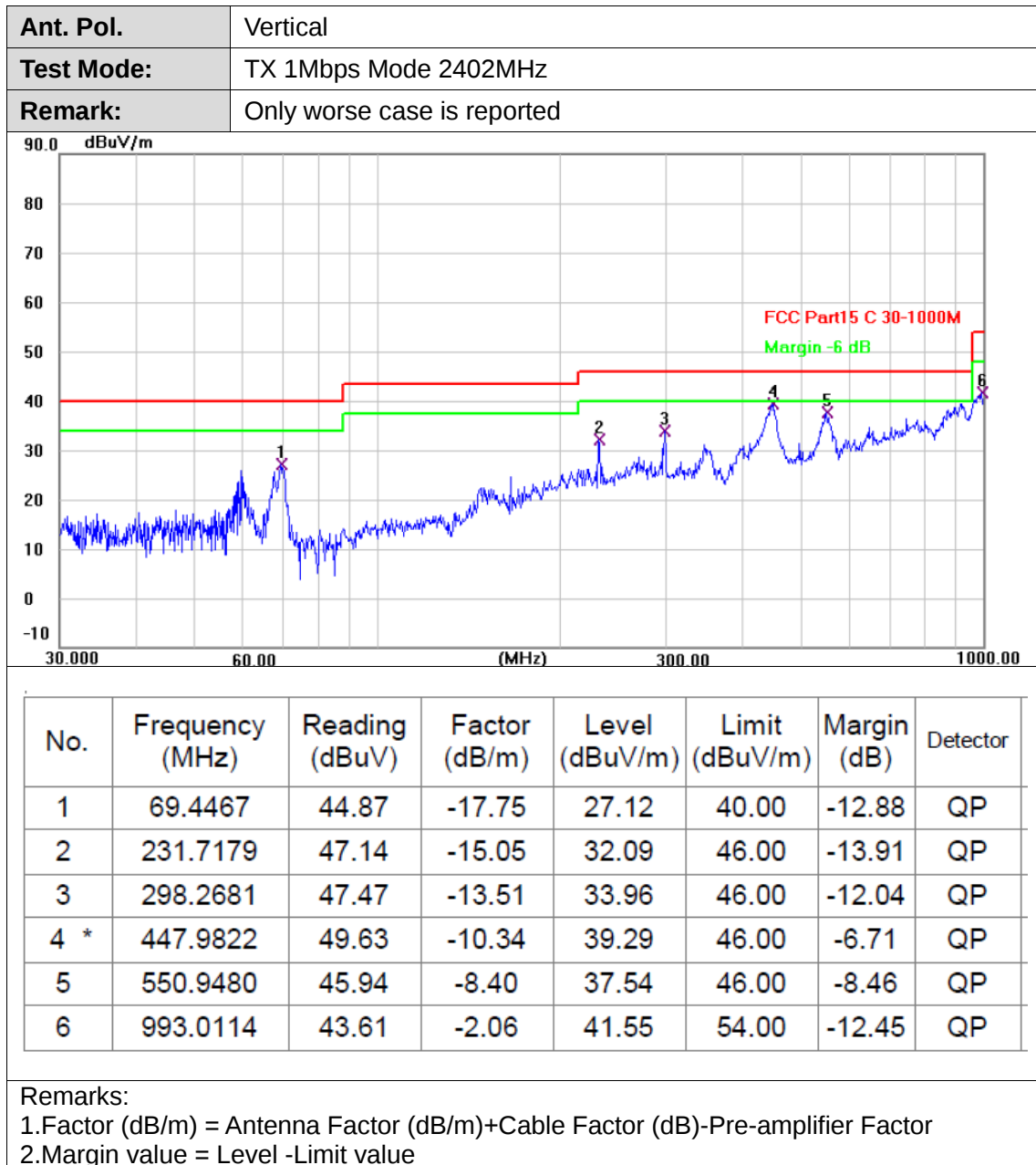
From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1GHz

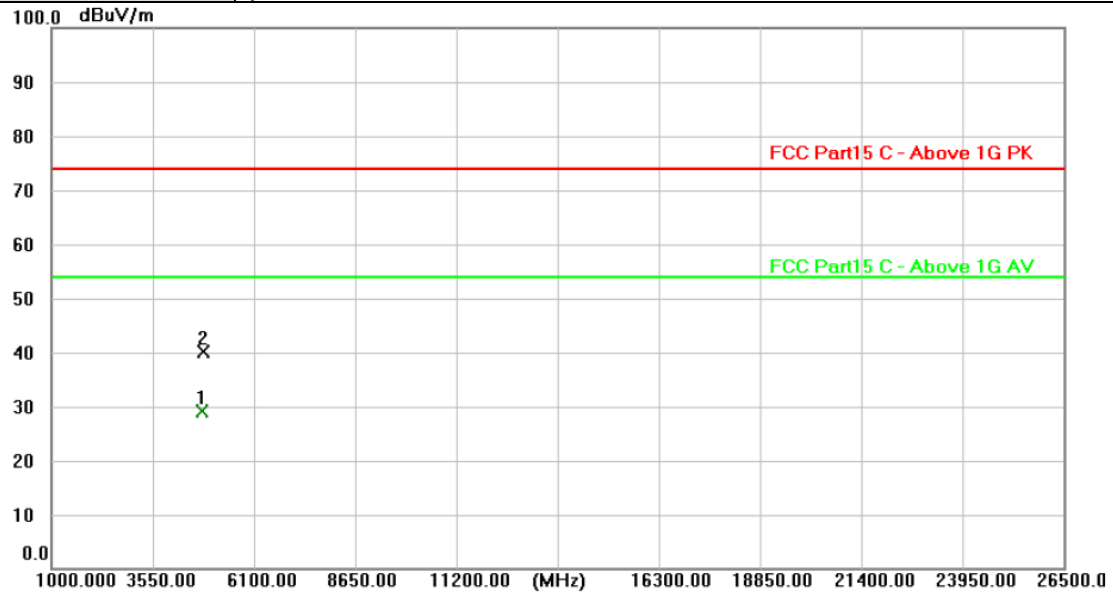






Above 1GHz

Ant. Pol.	Horizontal
Test Mode:	TX BLE 1Mbps Mode 2402MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4803.029	27.14	2.07	29.21	54.00	-24.79	AVG
2	4804.205	38.04	2.08	40.12	74.00	-33.88	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



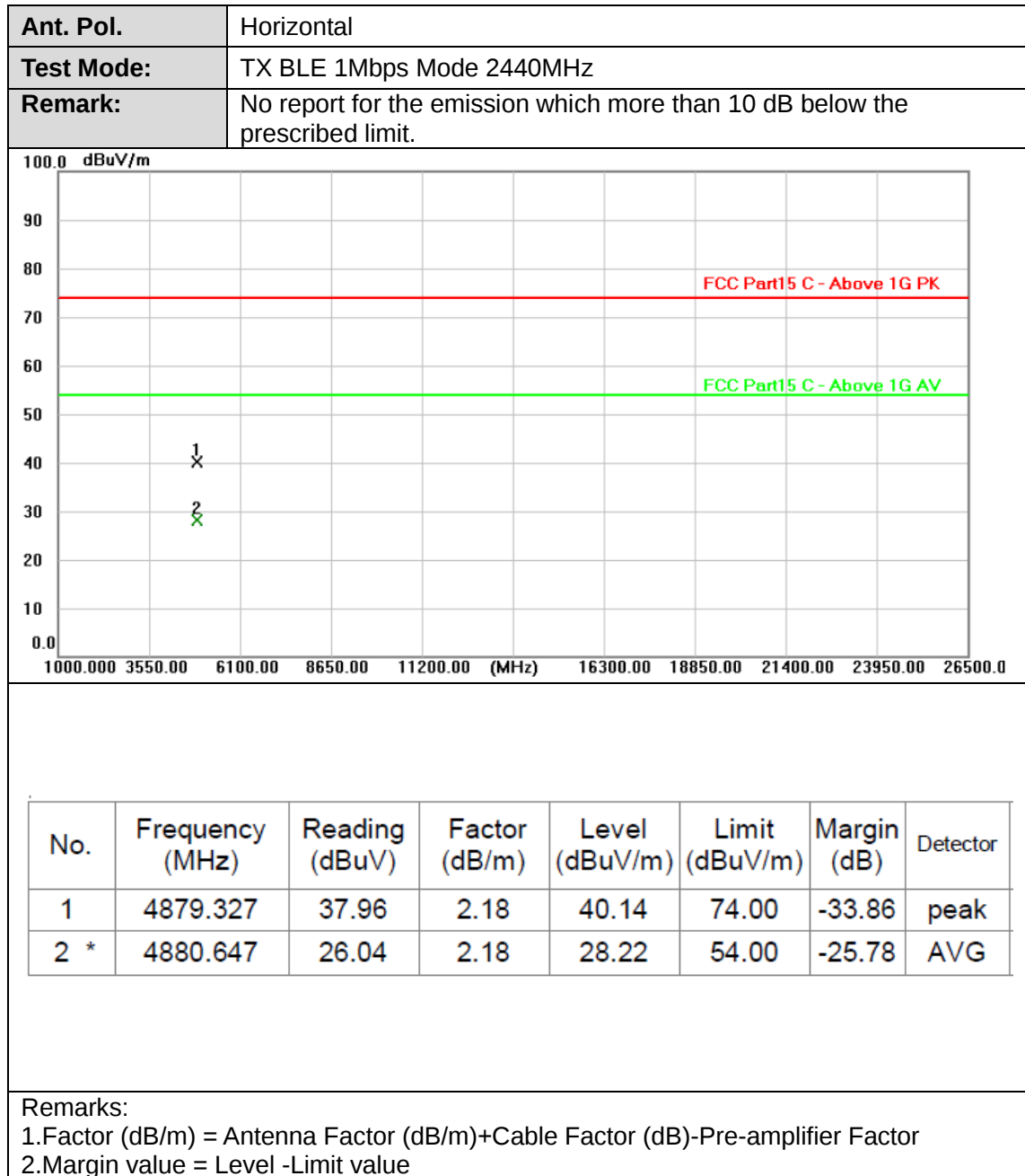
Ant. Pol.	Vertical
Test Mode:	TX BLE 1Mbps Mode 2402MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4803.389	26.74	2.08	28.82	54.00	-25.18	AVG
2	4803.415	37.93	2.08	40.01	74.00	-33.99	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value





Ant. Pol.	Vertical
Test Mode:	TX BLE 1Mbps Mode 2440MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4879.586	26.02	2.18	28.20	54.00	-25.80	AVG
2	4879.868	37.56	2.18	39.74	74.00	-34.26	peak

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4879.586	26.02	2.18	28.20	54.00	-25.80	AVG
2	4879.868	37.56	2.18	39.74	74.00	-34.26	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value



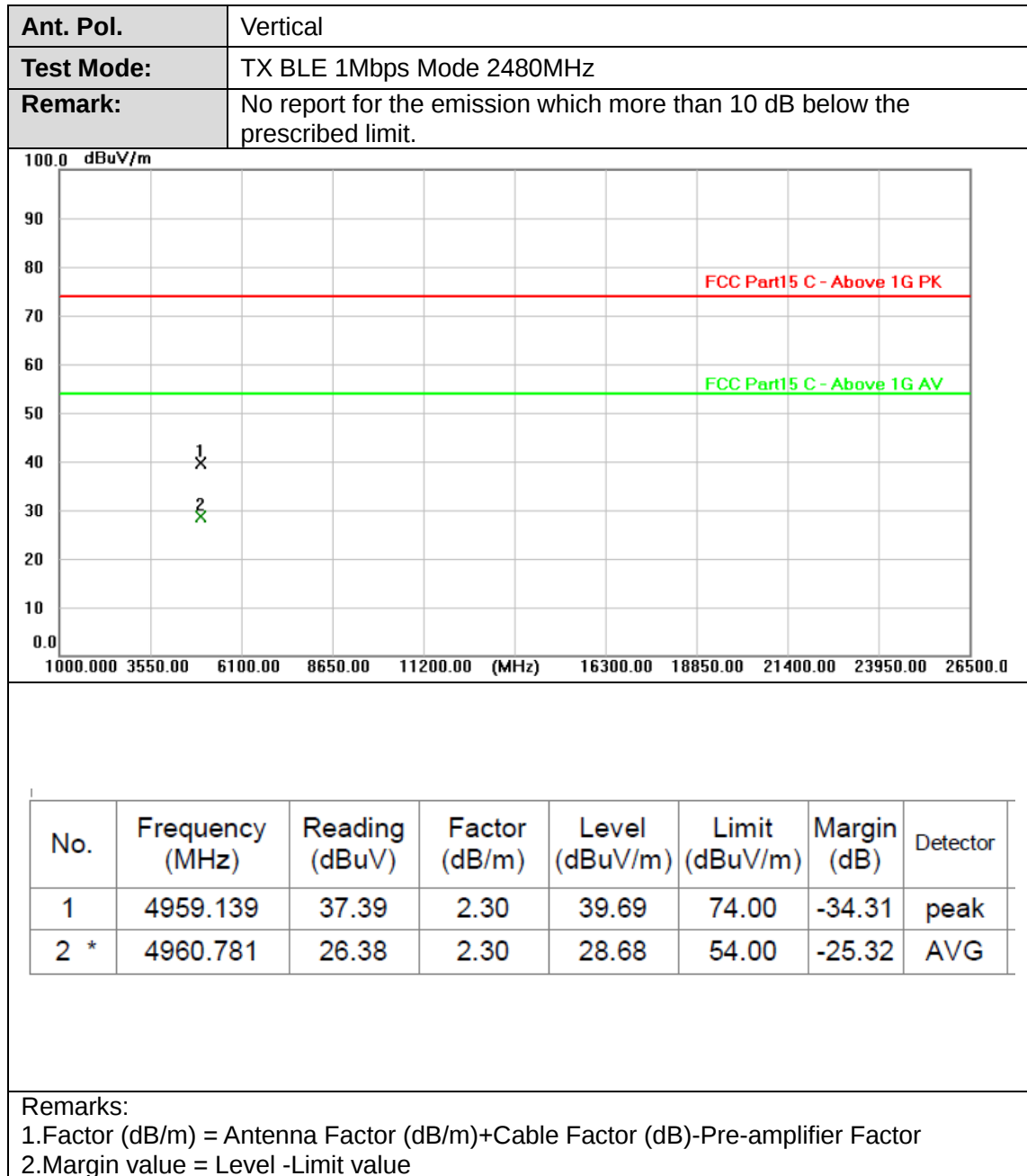
Ant. Pol.	Horizontal
Test Mode:	TX BLE 1Mbps Mode 2480MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

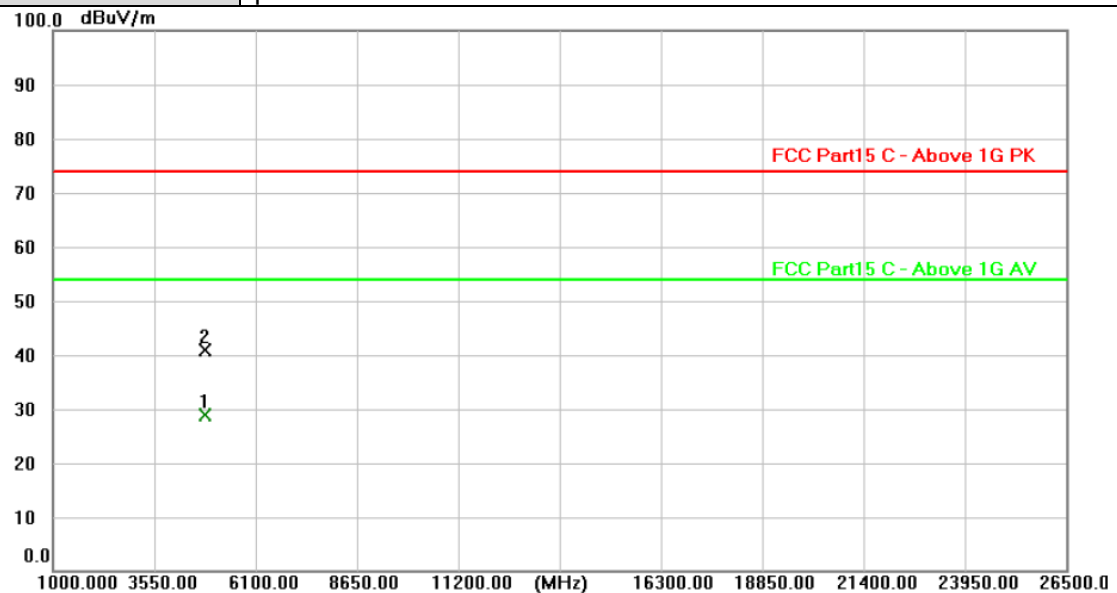
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4959.327	26.19	2.30	28.49	54.00	-25.51	AVG
2	4960.920	37.68	2.30	39.98	74.00	-34.02	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX BLE 2Mbps Mode 2402MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4803.527	26.76	2.08	28.84	54.00	-25.16	AVG
2	4804.787	38.79	2.08	40.87	74.00	-33.13	peak

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX BLE 2Mbps Mode 2402MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

1 x

2 x

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4803.543	37.31	2.08	39.39	74.00	-34.61	peak
2 *	4803.722	26.54	2.08	28.62	54.00	-25.38	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX BLE 2Mbps Mode 2440MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

2

1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4879.427	26.13	2.18	28.31	54.00	-25.69	AVG
2	4879.668	38.41	2.18	40.59	74.00	-33.41	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX BLE 2Mbps Mode 2440MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

90

80

70

60

50

40

30

20

10

0.0

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.00

FCC Part15 C - Above 1G PK

FCC Part15 C - Above 1G AV

2

1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4879.410	26.02	2.18	28.20	54.00	-25.80	AVG
2	4880.365	37.80	2.18	39.98	74.00	-34.02	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX BLE 2Mbps Mode 2480MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960.483	37.68	2.30	39.98	74.00	-34.02	peak
2 *	4960.845	26.39	2.30	28.69	54.00	-25.31	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX BLE 2Mbps Mode 2480MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

1000.000 3550.00 6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4959.052	26.44	2.30	28.74	54.00	-25.26	AVG
2	4960.770	37.29	2.30	39.59	74.00	-34.41	peak

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

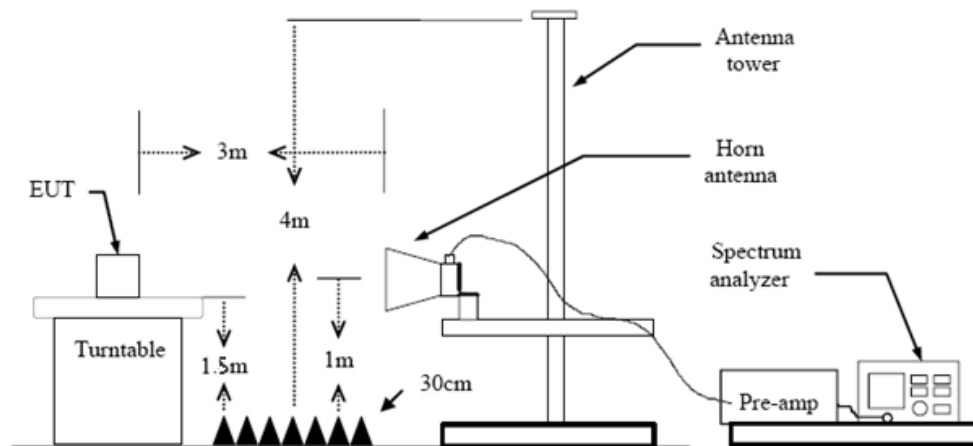
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~ 2390	74	54
2483.5 ~ 2500	74	54

Test Configuration



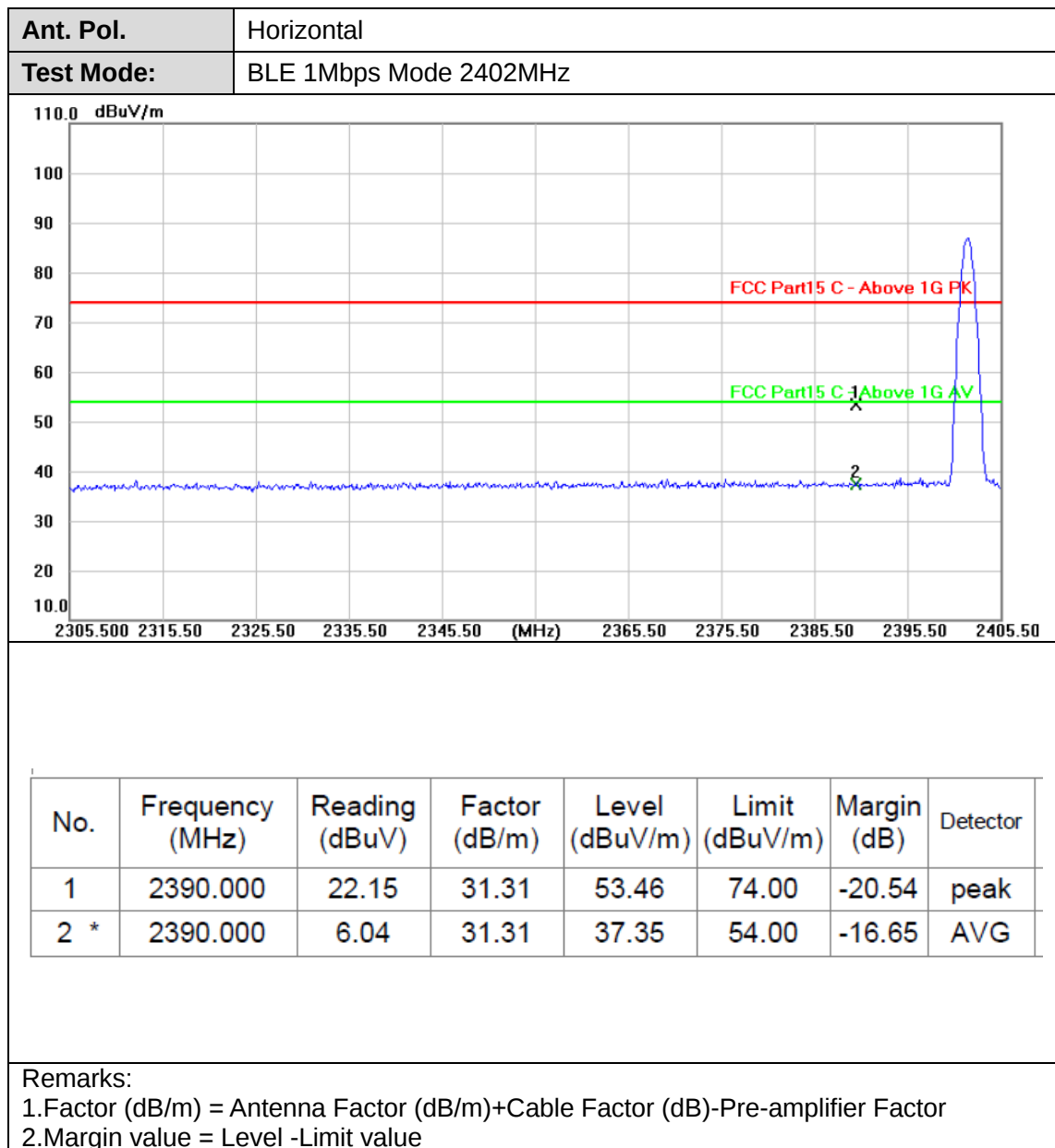
Test Procedure

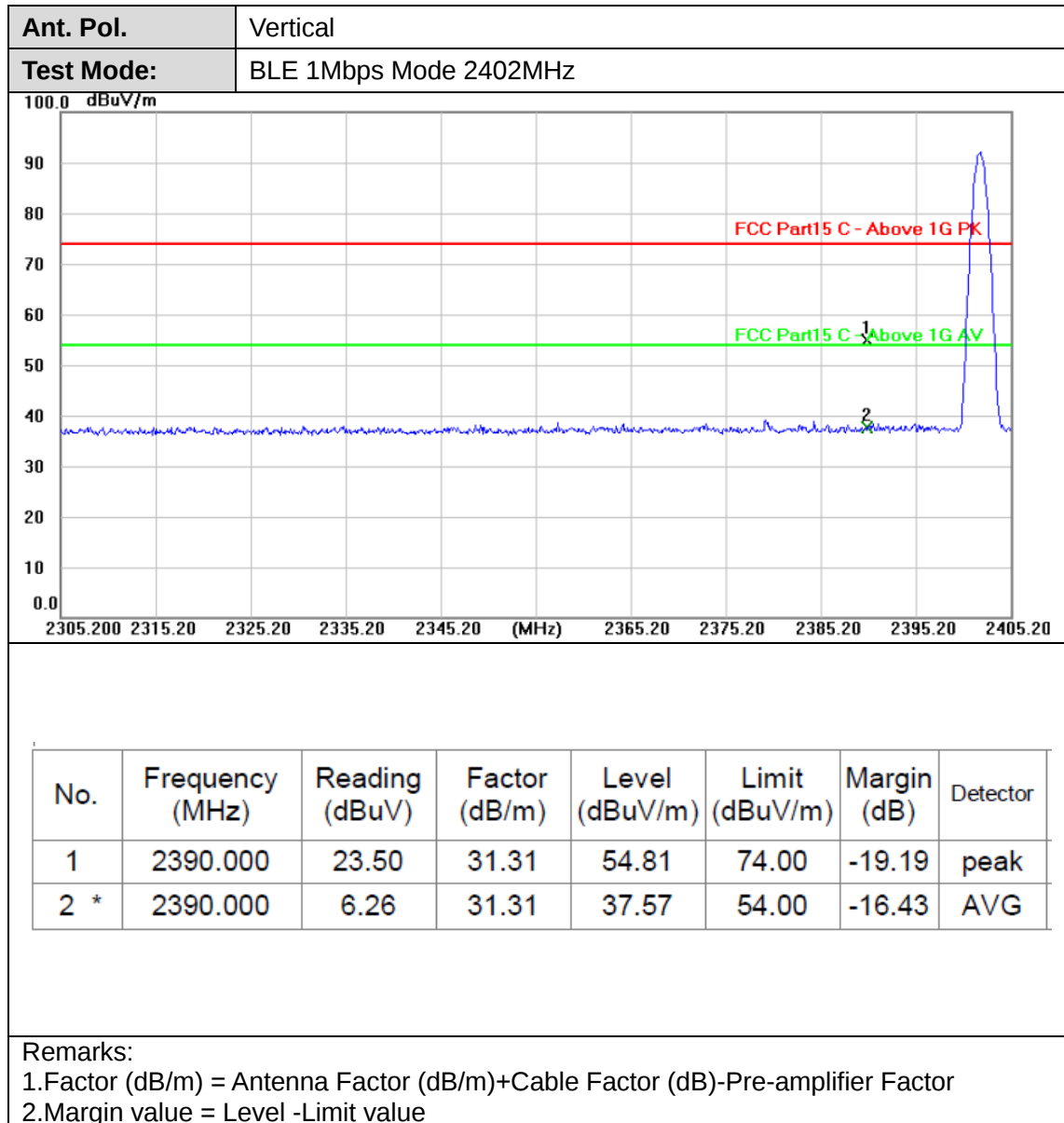
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz. VBW see note 1 with Peak Detector for Average Value.

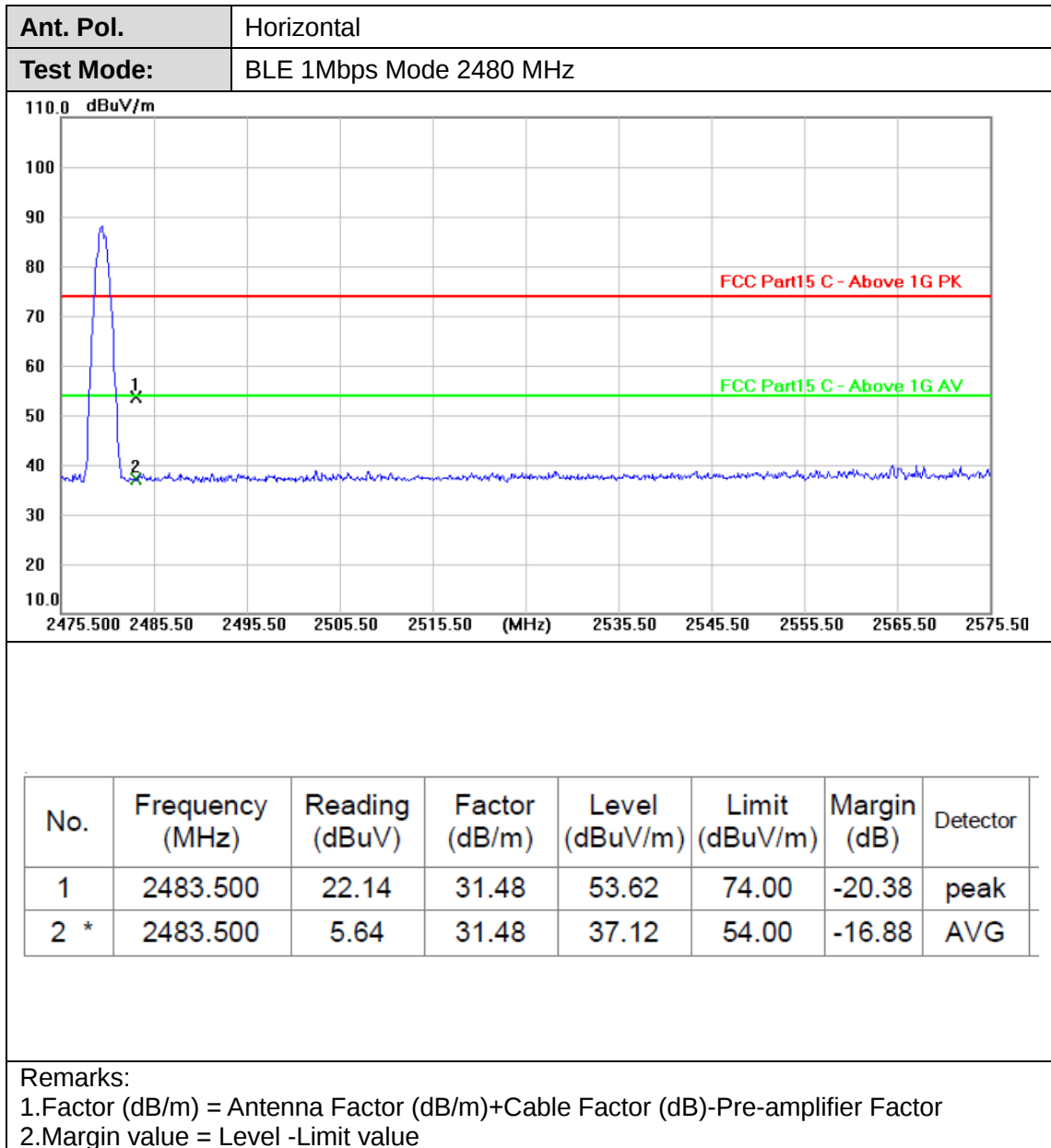
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

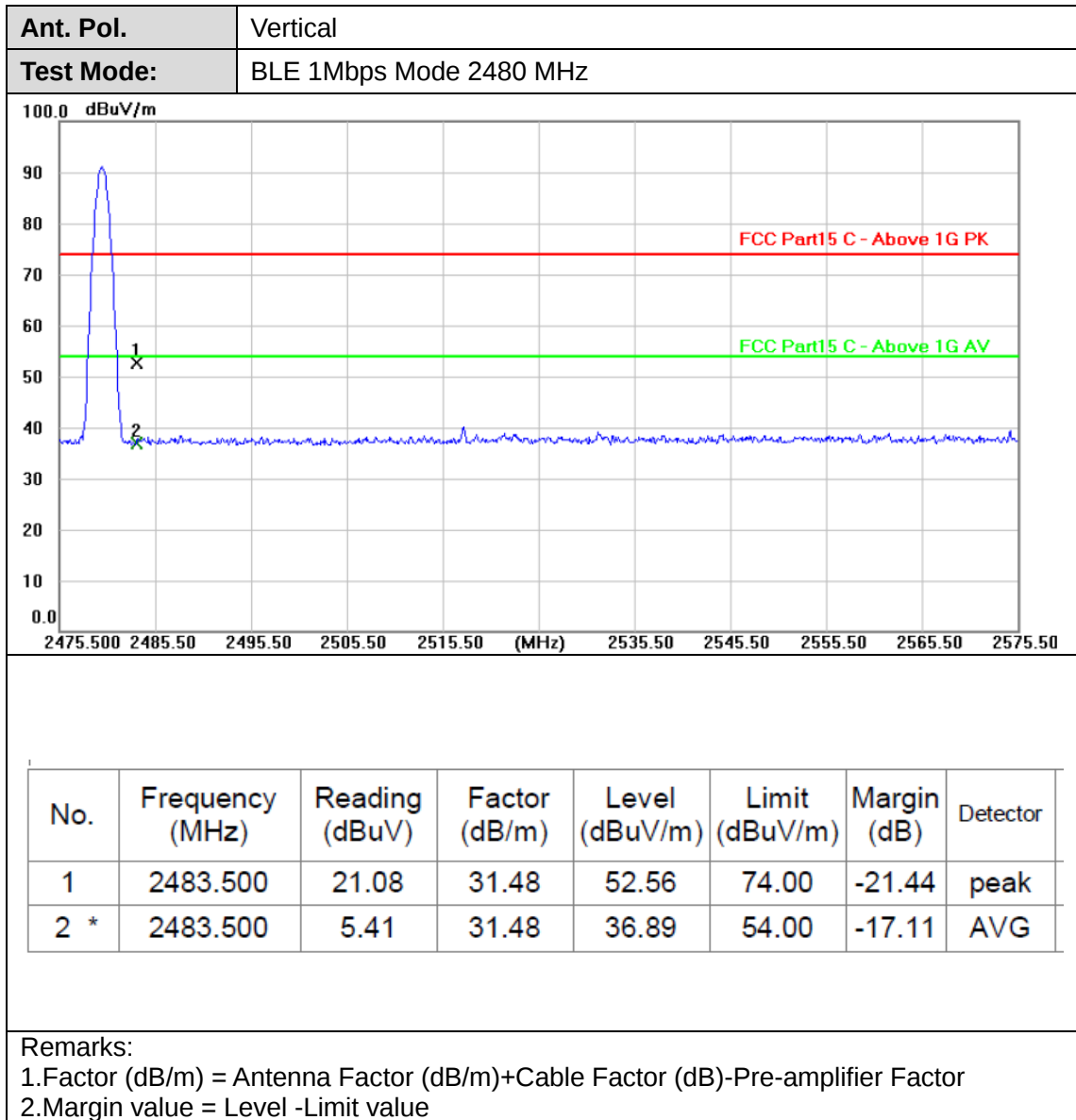
Test Mode

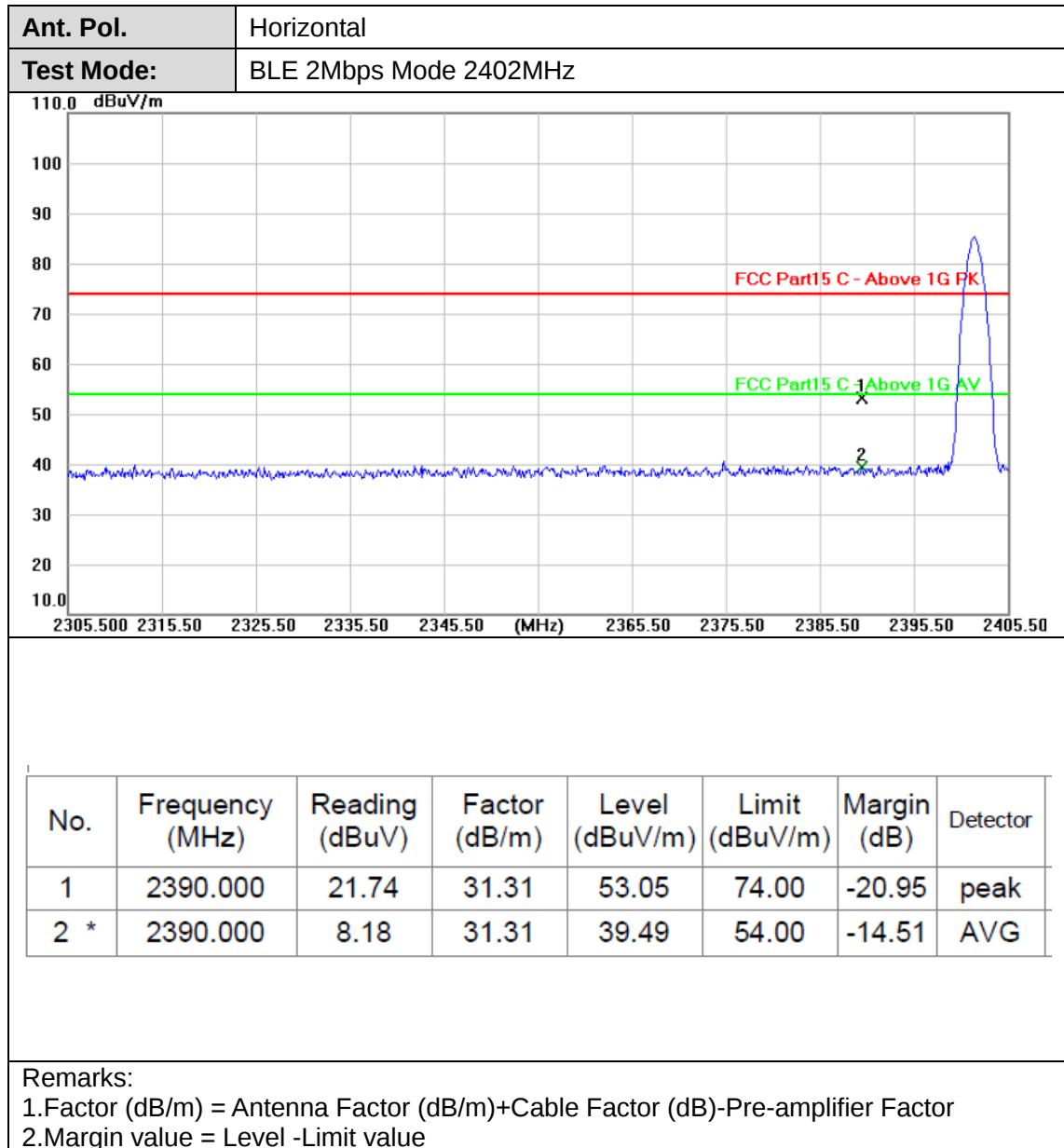
Please refer to the clause 2.4.

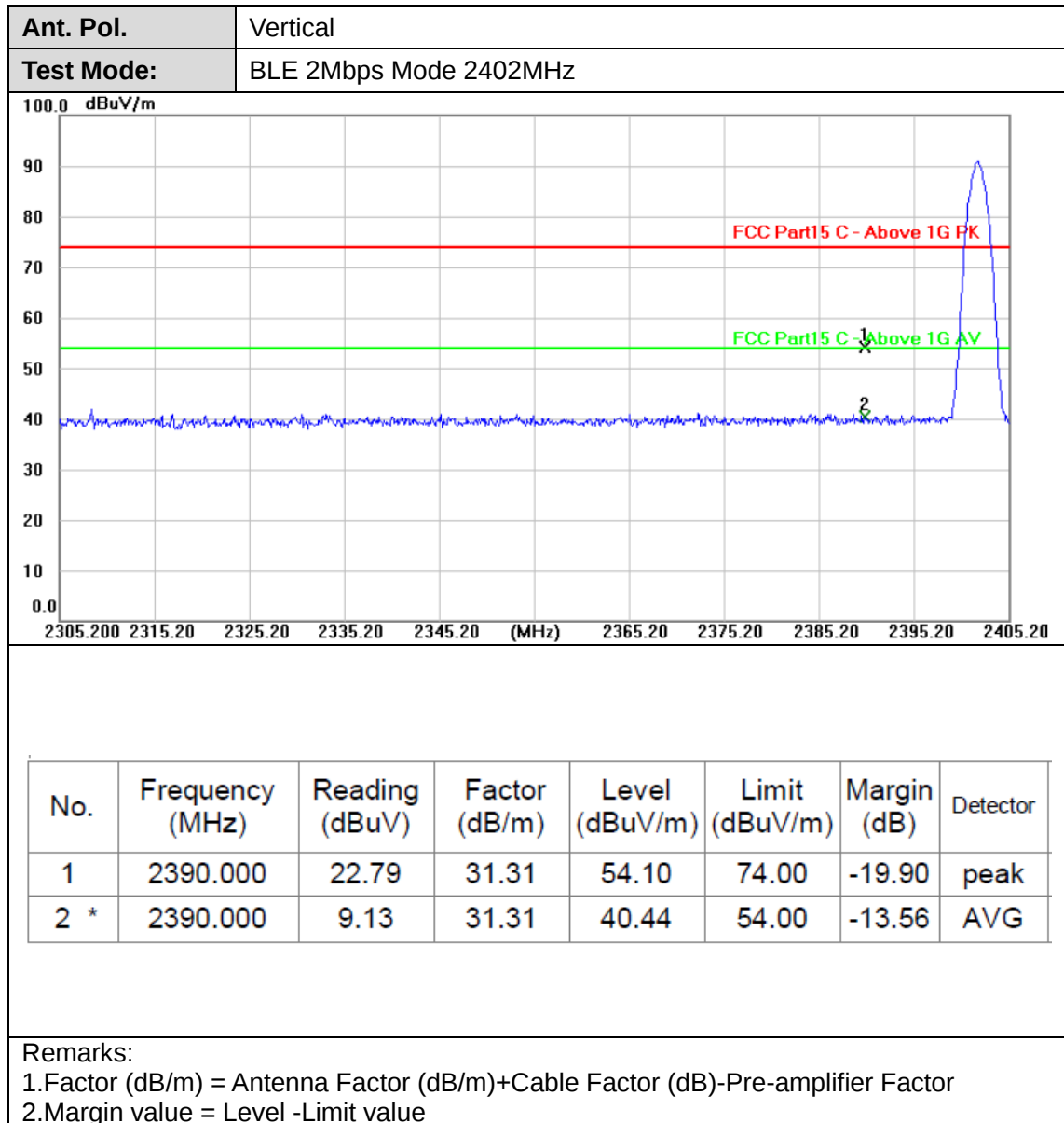
**Test Results**

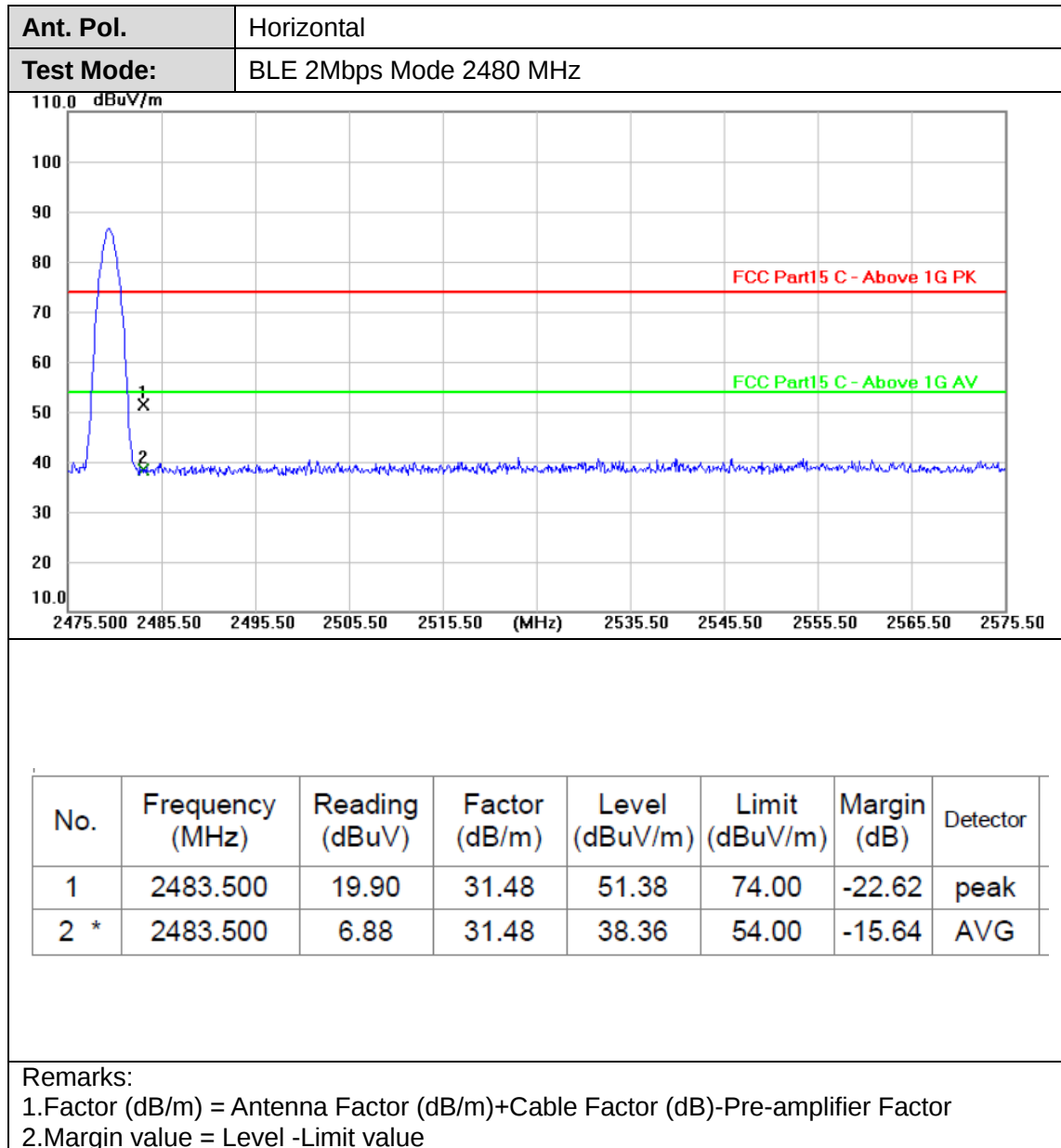


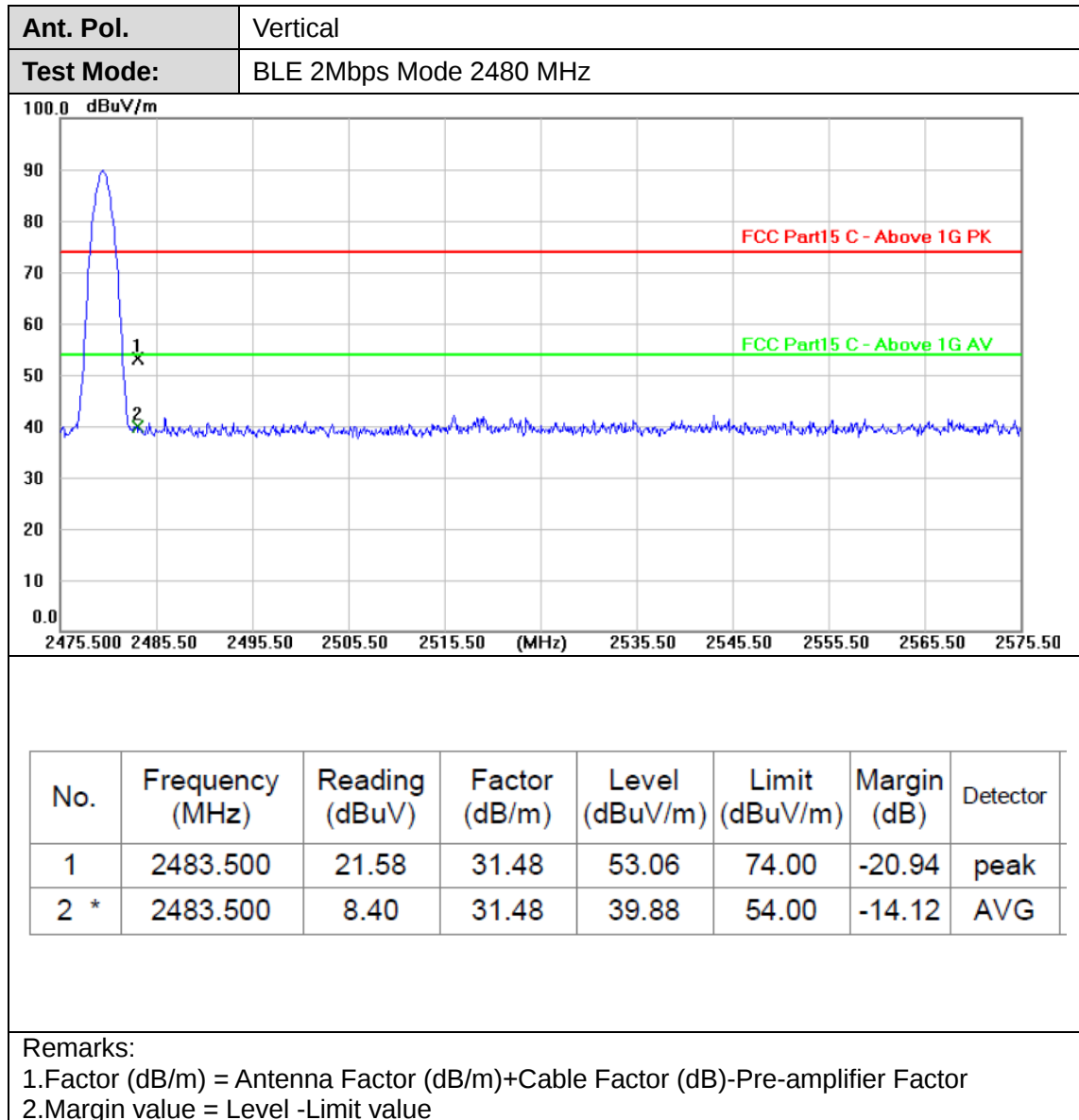












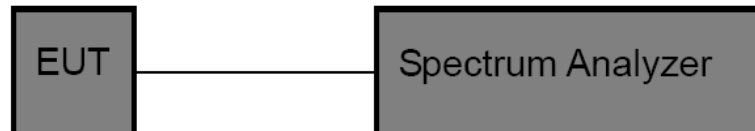


3.4. Band edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, 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 spectrum analyzer settings:
RBW = 100 kHz, VBW $\geq$ RBW, scan up through 10th harmonic.
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

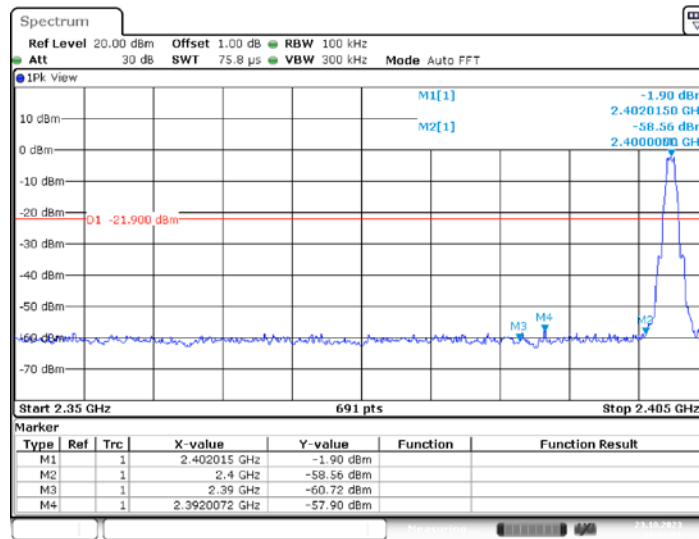
Test Results

(1) Band edge Conducted Test

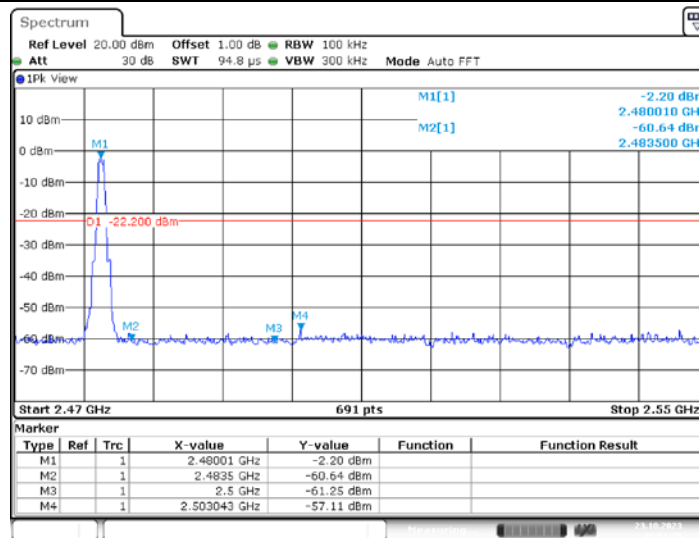
Test Mode	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1Mbps	2402	-1.90	-57.90	≤ -21.90	PASS
	2480	-2.20	-57.11	≤ -22.20	PASS
BLE 2Mbps	2402	-1.82	-42.77	≤ -21.82	PASS
	2480	-2.43	-56.97	≤ -22.43	PASS



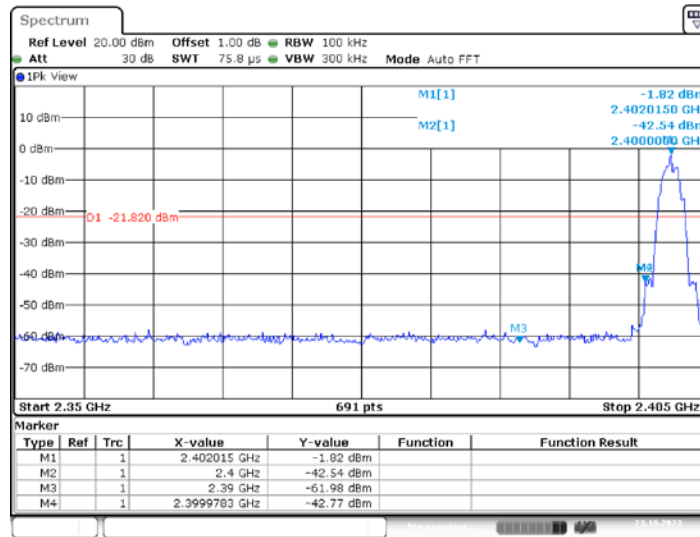
BLE_1Mbps_Low_2402



BLE_1Mbps_High_2480

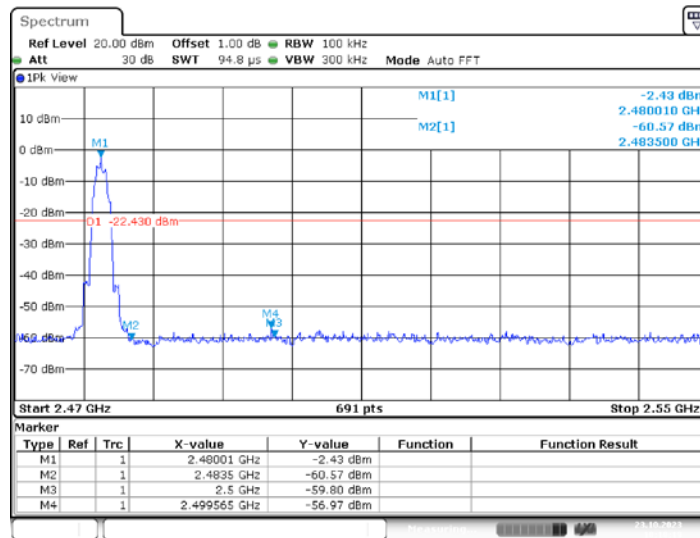


BLE_2Mbps_Low_2402



Date: 23.OCT.2023 10:13:39

BLE_2Mbps_High_2480



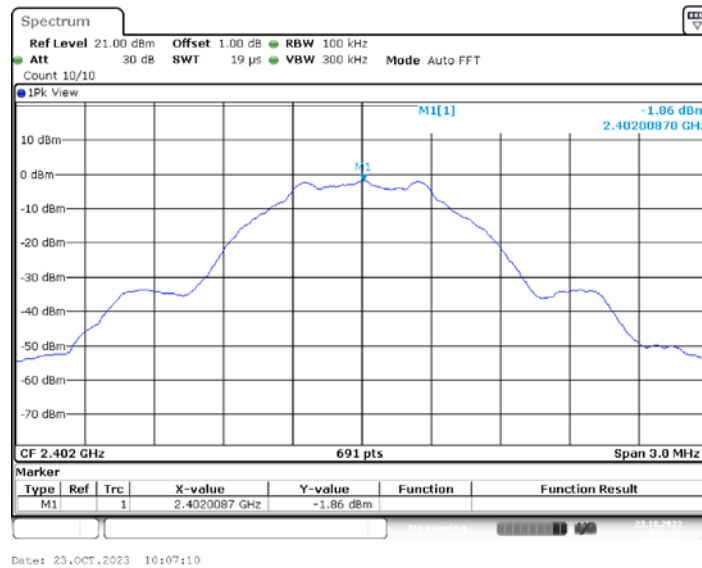
Date: 23.OCT.2023 10:18:19

**(2) Conducted Spurious Emissions Test**

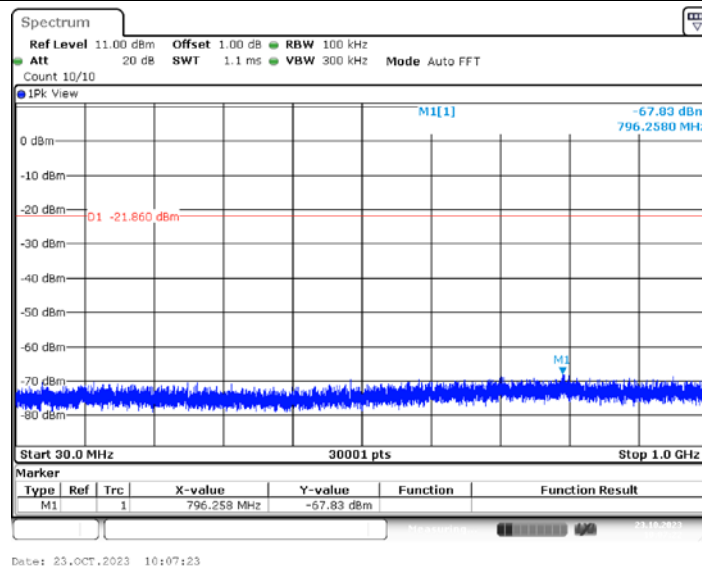
Test Mode	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1Mbps	2402	Reference	-1.86	-1.86	---	PASS
		30~1000	-1.86	-67.83	≤ -21.86	PASS
		1000~26500	-1.86	-61.74	≤ -21.86	PASS
	2440	Reference	-1.32	-1.32	---	PASS
		30~1000	-1.32	-68.31	≤ -21.32	PASS
		1000~26500	-1.32	-56.58	≤ -21.32	PASS
	2480	Reference	-2.20	-2.20	---	PASS
		30~1000	-2.20	-67.68	≤ -22.2	PASS
		1000~26500	-2.20	-61.19	≤ -22.2	PASS
BLE 2Mbps	2402	Reference	-1.85	-1.85	---	PASS
		30~1000	-1.85	-67.61	≤ -21.85	PASS
		1000~26500	-1.85	-50.39	≤ -21.85	PASS
	2440	Reference	-1.29	-1.29	---	PASS
		30~1000	-1.29	-67.89	≤ -21.29	PASS
		1000~26500	-1.29	-50.83	≤ -21.29	PASS
	2480	Reference	-2.18	-2.18	---	PASS
		30~1000	-2.18	-68.24	≤ -22.18	PASS
		1000~26500	-2.18	-61.43	≤ -22.18	PASS



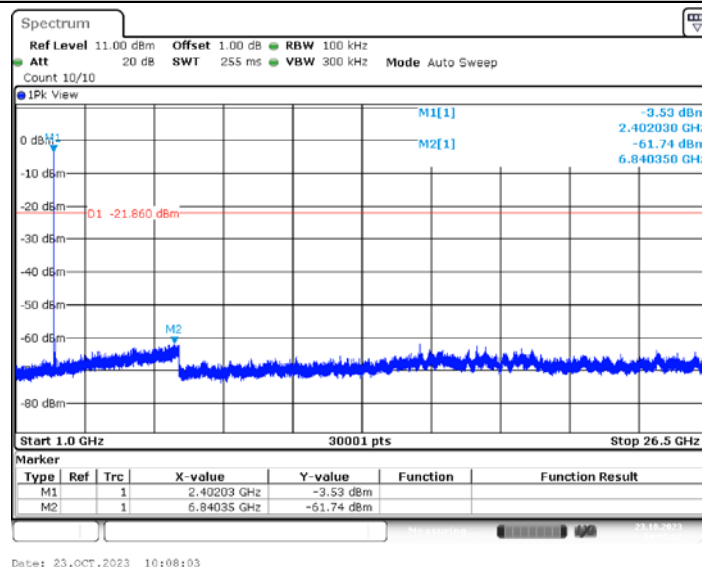
BLE_1Mbps_2402_0~Reference



BLE_1Mbps_2402_30~1000



BLE_1Mbps_2402_1000~26500



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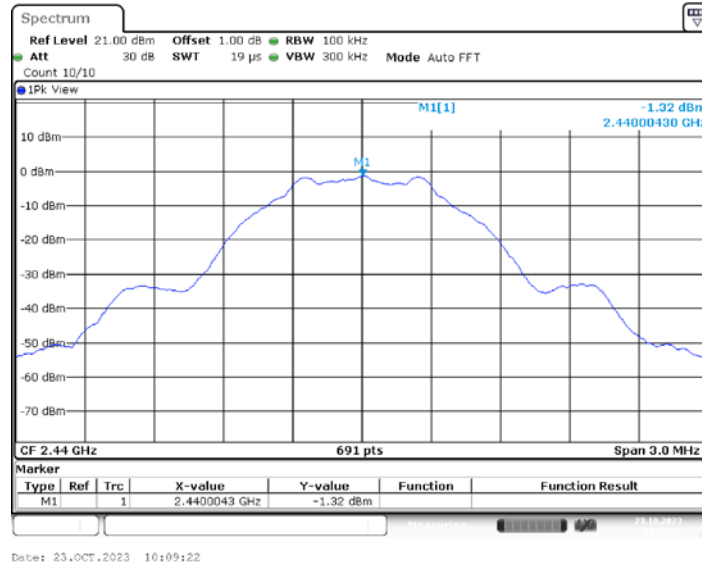
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

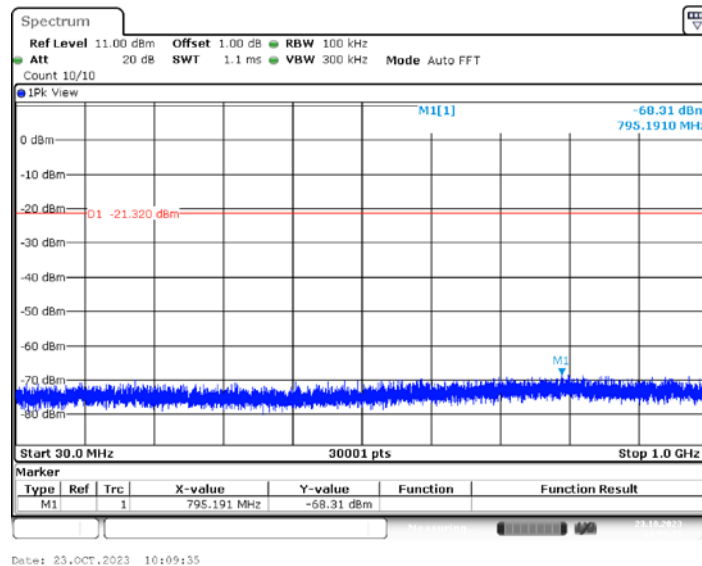
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



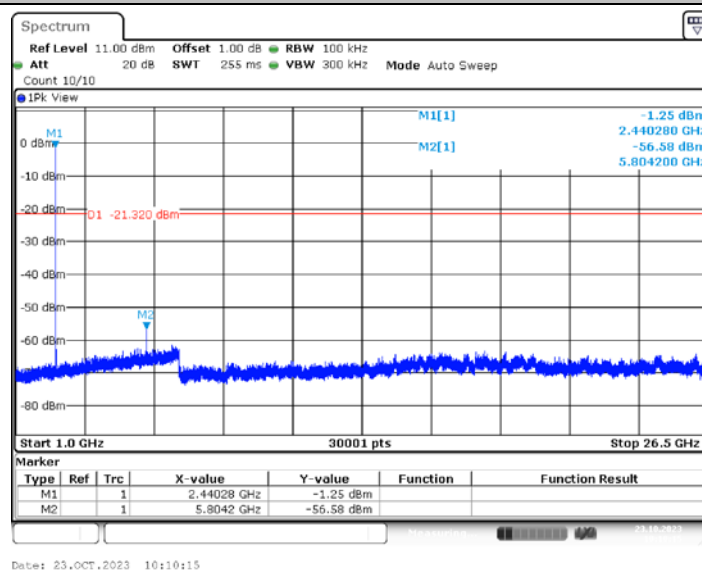
BLE_1Mbps_2440_0~Reference



BLE_1Mbps_2440_30~1000



BLE_1Mbps_2440_1000~26500



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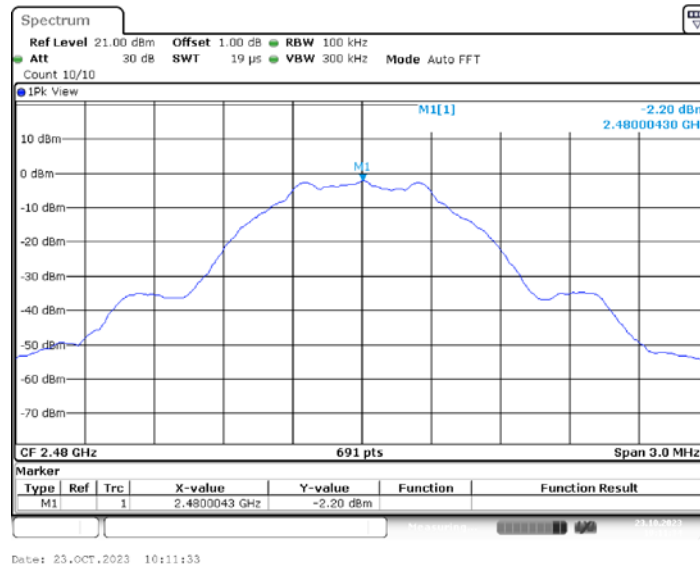
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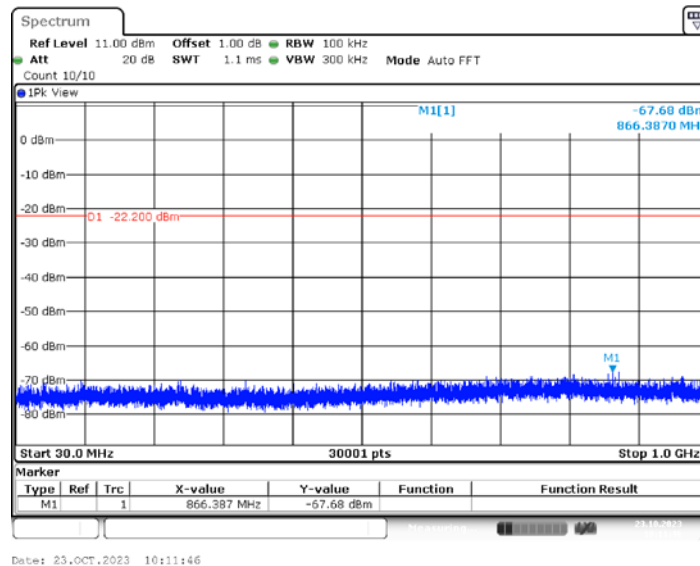
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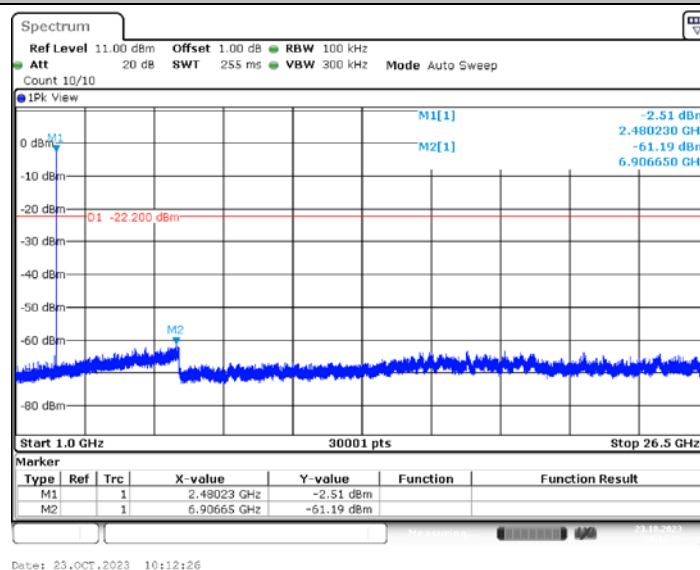
BLE_1Mbps_2480_0~Reference



BLE_1Mbps_2480_30~1000



BLE_1Mbps_2480_1000~26500



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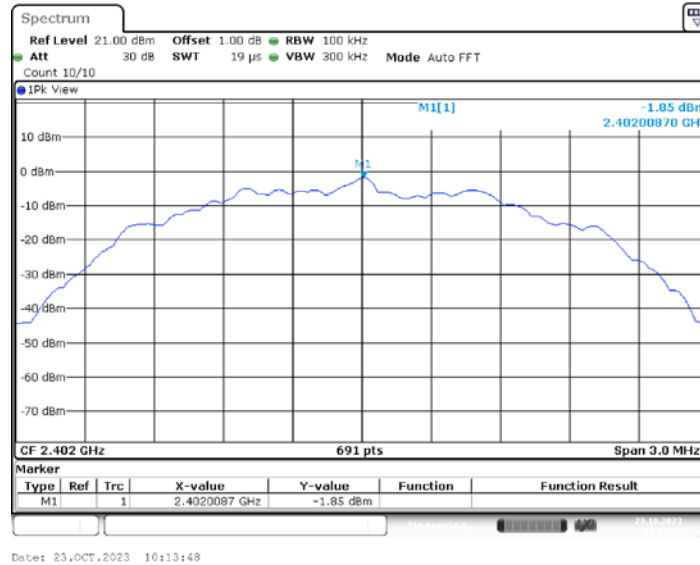
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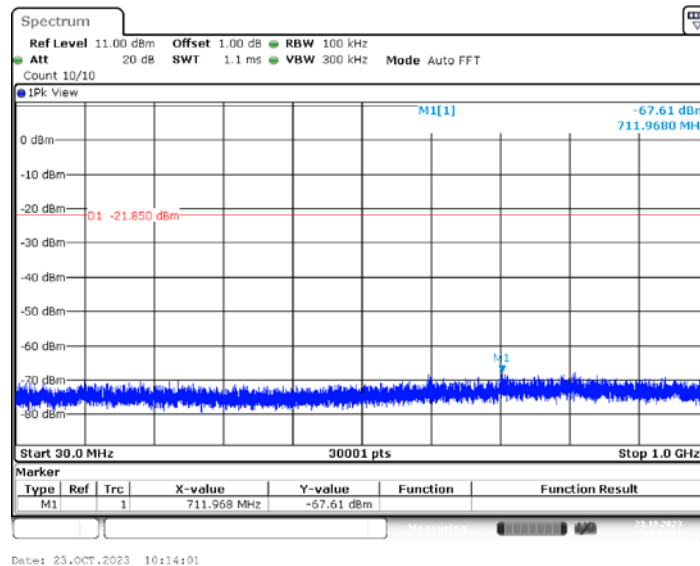
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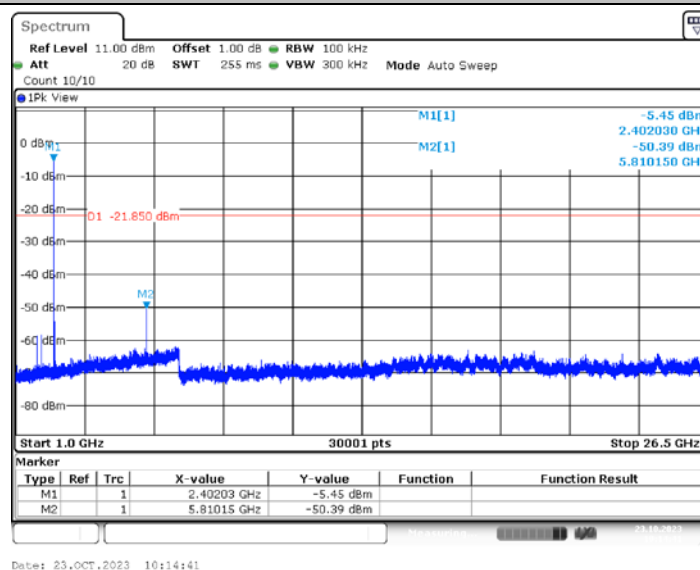
BLE_2Mbps_2402_0~Reference



BLE_2Mbps_2402_30~1000



BLE_2Mbps_2402_1000~26500



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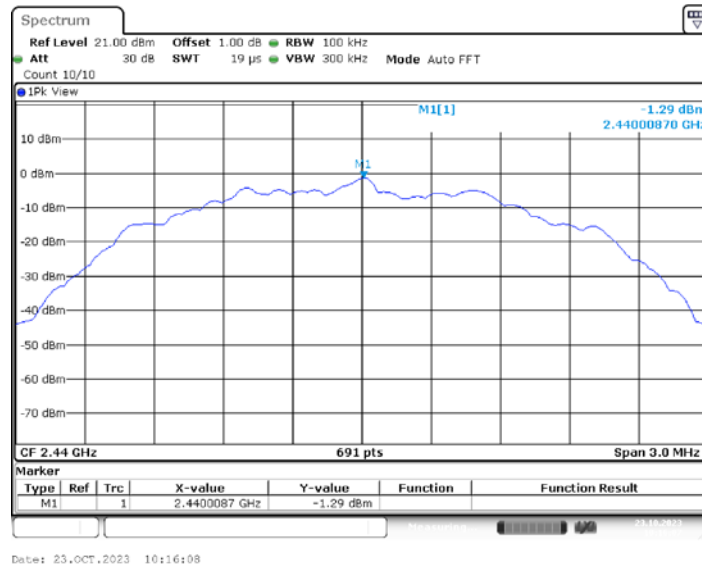
Fax: (86)755-27521011

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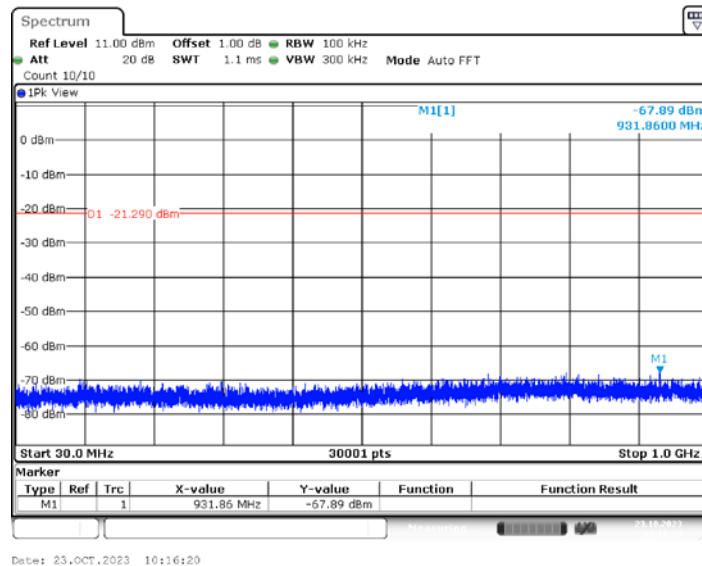
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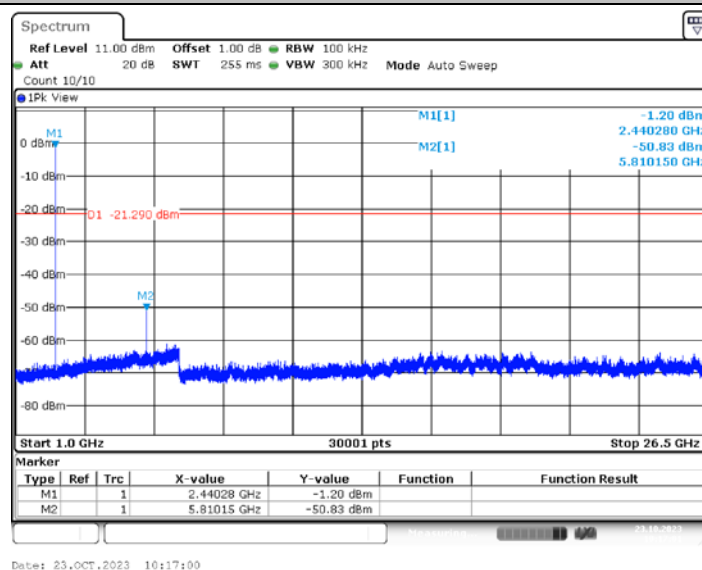
BLE_2Mbps_2440_0~Reference



BLE_2Mbps_2440_30~1000



BLE_2Mbps_2440_1000~26500



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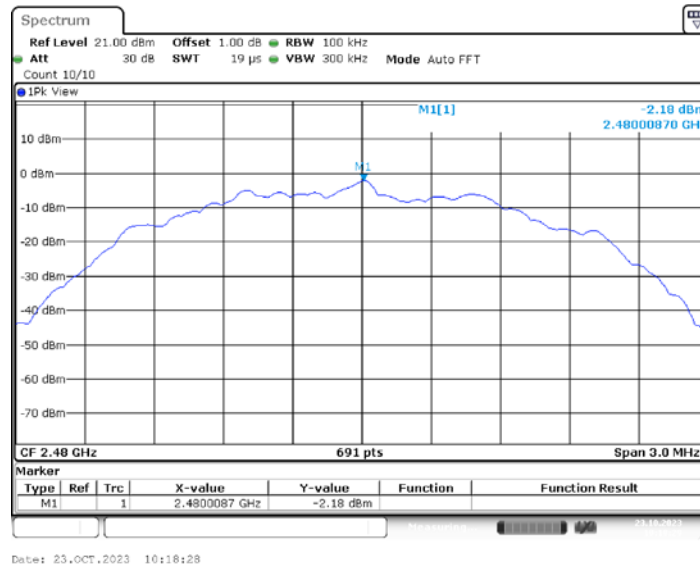
Fax: (86)755-27521011

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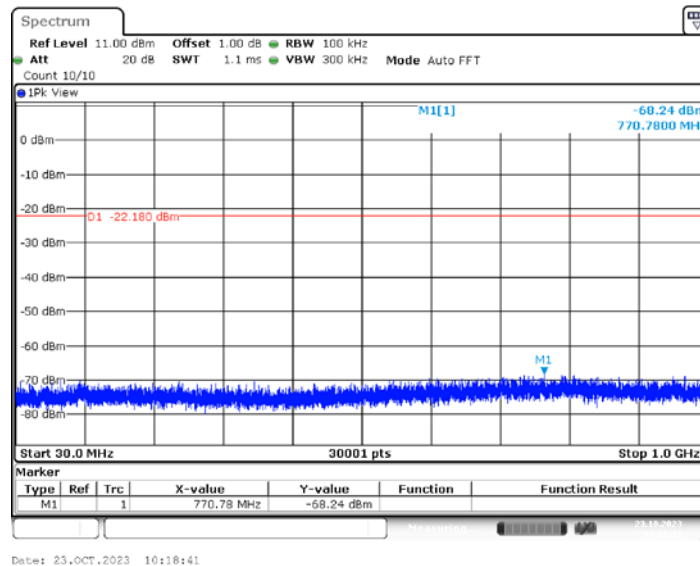
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



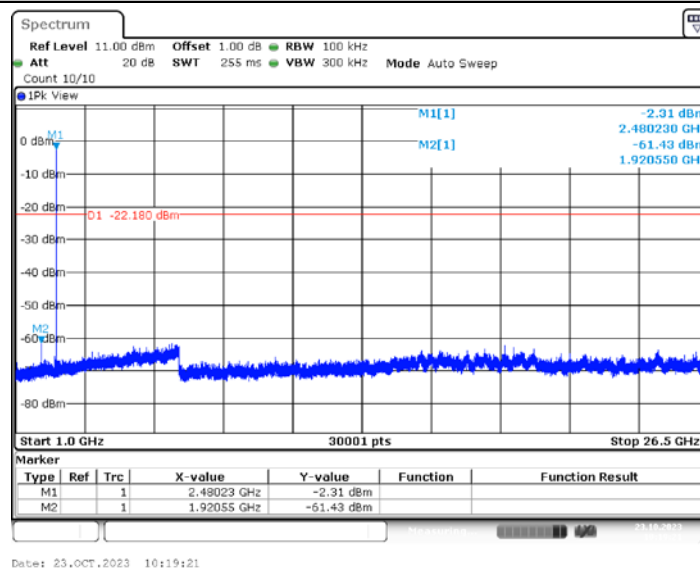
BLE_2Mbps_2480_0~Reference



BLE_2Mbps_2480_30~1000



BLE_2Mbps_2480_1000~26500



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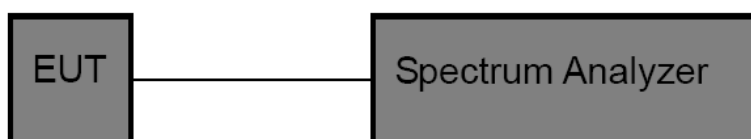
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
DTS Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

5. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
6. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Test Mode

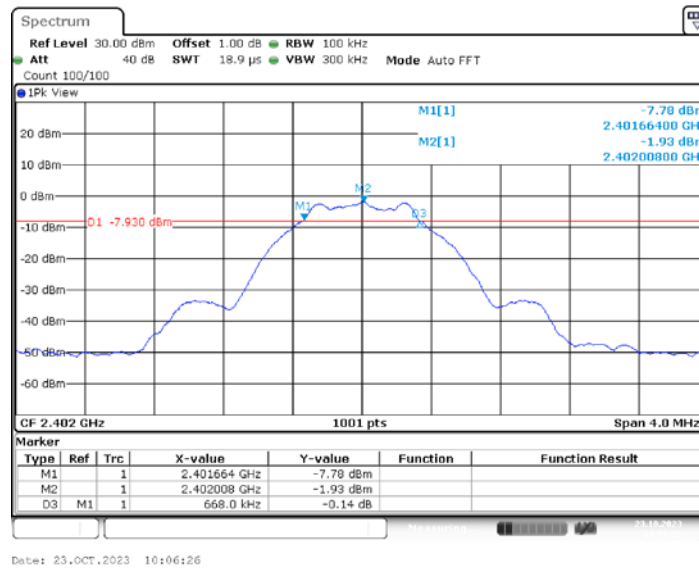
Please refer to the clause 2.4.

Test Results

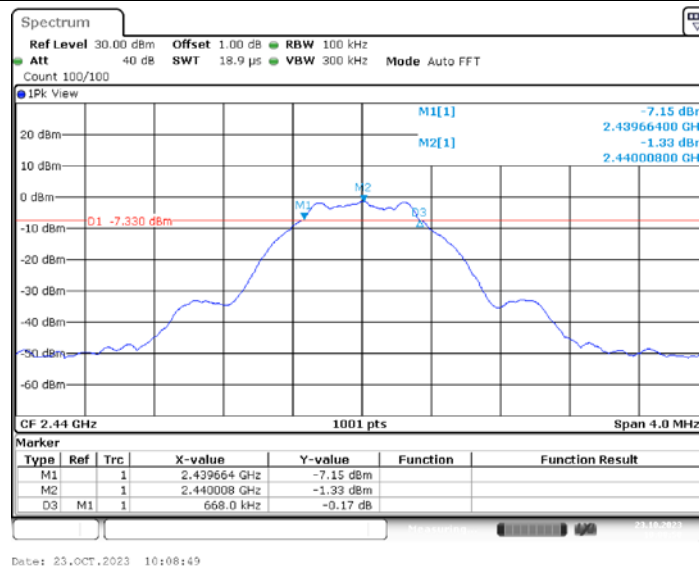
Test Mode	Frequency[MHz]	DTS BW[MHz]	Limit[MHz]	Verdict
BLE 1Mbps	2402	0.67	≥ 0.5	PASS
	2440	0.67	≥ 0.5	PASS
	2480	0.66	≥ 0.5	PASS
BLE 2Mbps	2402	1.13	≥ 0.5	PASS
	2440	1.14	≥ 0.5	PASS
	2480	1.13	≥ 0.5	PASS



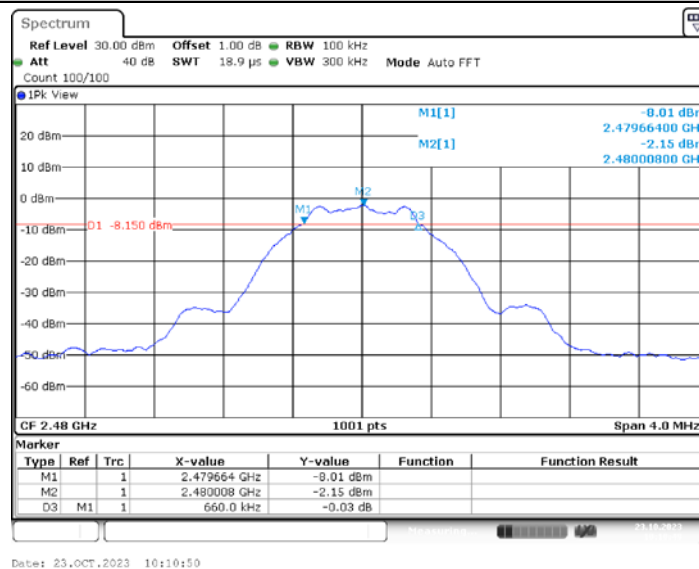
BLE_1Mbps_2402



BLE_1Mbps_2440



BLE_1Mbps_2480



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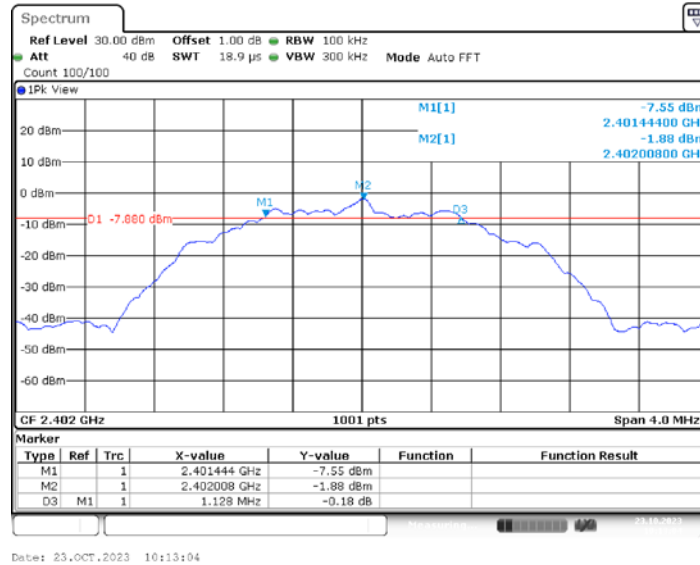
Fax: (86)755-27521011

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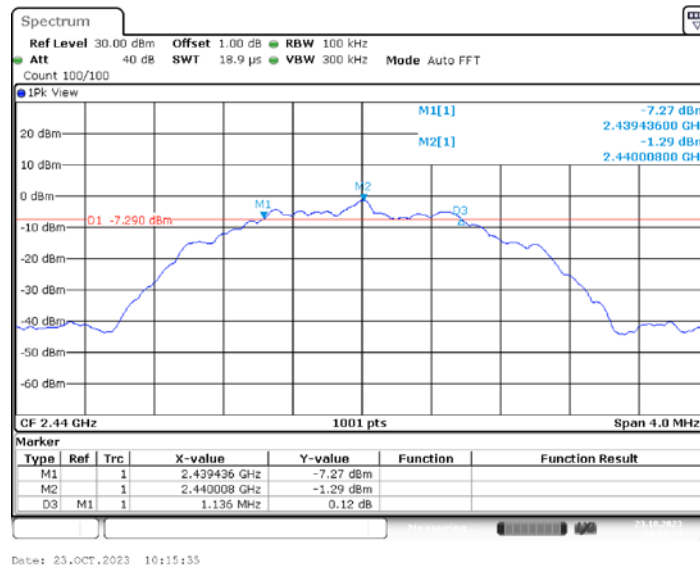
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



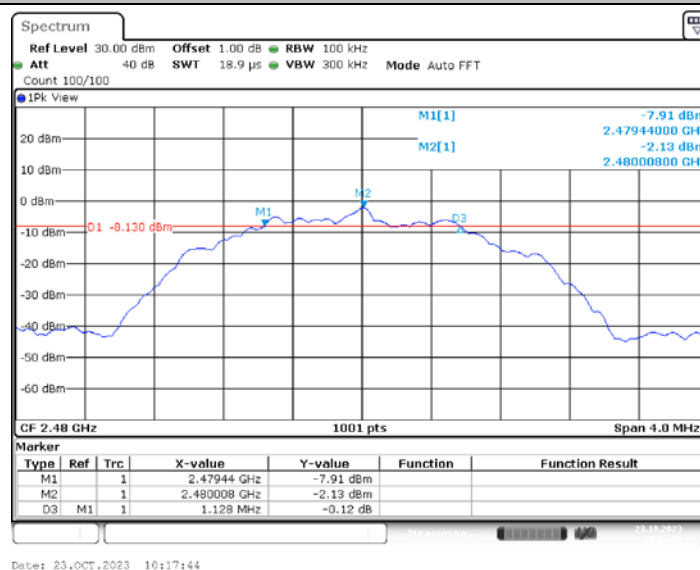
BLE_2Mbps_2402



BLE_2Mbps_2440



BLE_2Mbps_2480



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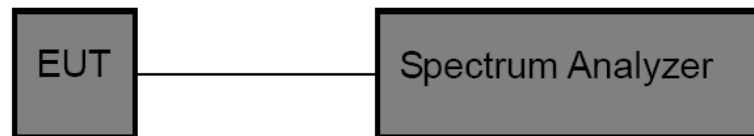
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4 d:

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
Peak Detector: RBW□DTS Bandwidth, VBW□3*RBW.
Sweep time=Auto.
Detector= Peak.
Trace mode= Maxhold.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

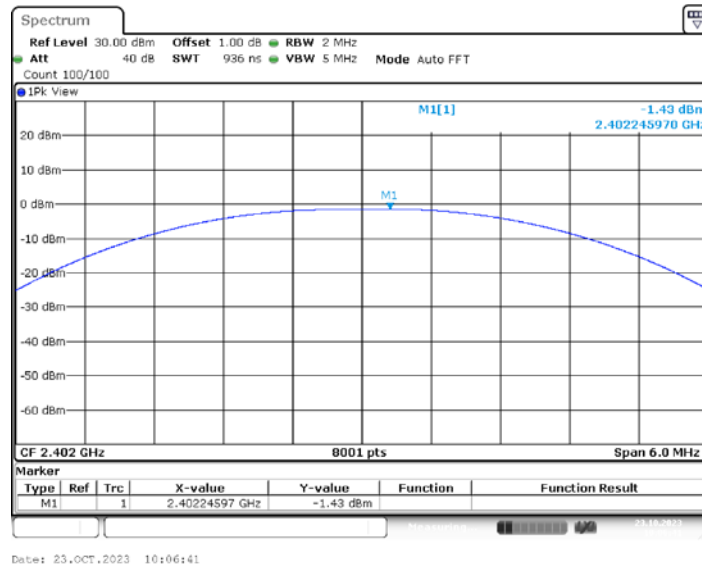
Test Result

Test Mode	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE 1Mbps	2402	-1.43	<=30	PASS
	2440	-0.86	<=30	PASS
	2480	-1.71	<=30	PASS
BLE 2Mbps	2402	-1.40	<=30	PASS
	2440	-0.83	<=30	PASS
	2480	-1.58	<=30	PASS

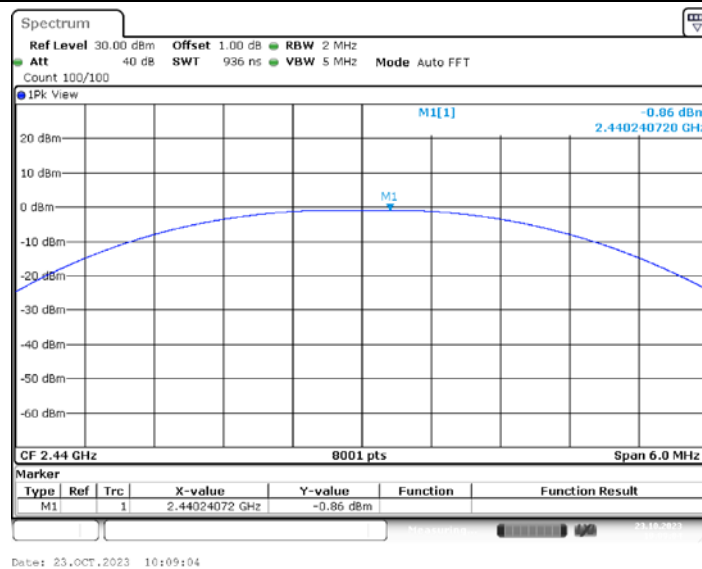


Test plot as follows:

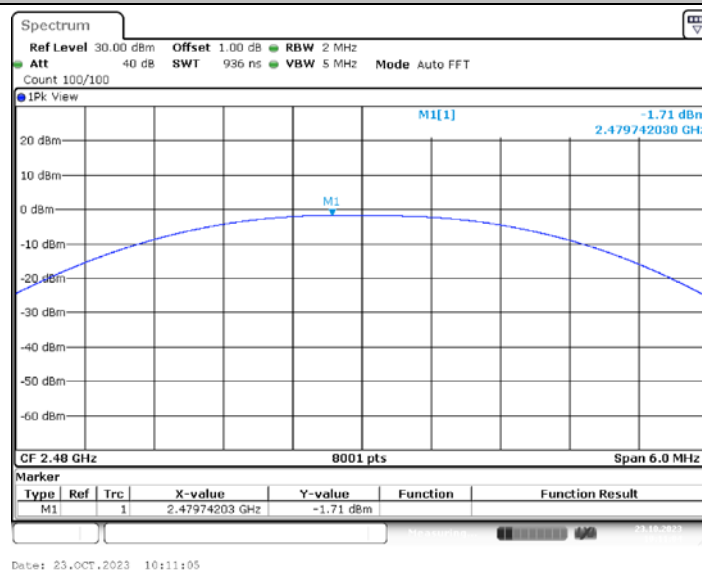
BLE_1Mbps_2402



BLE_1Mbps_2440



BLE_1Mbps_2480



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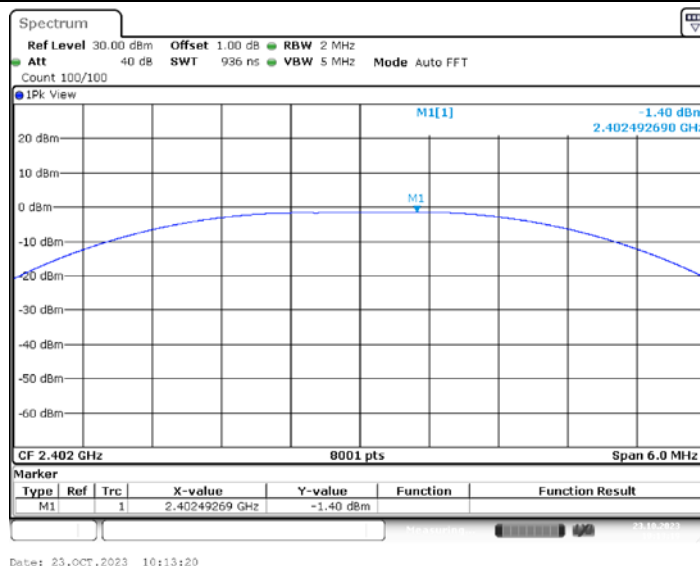
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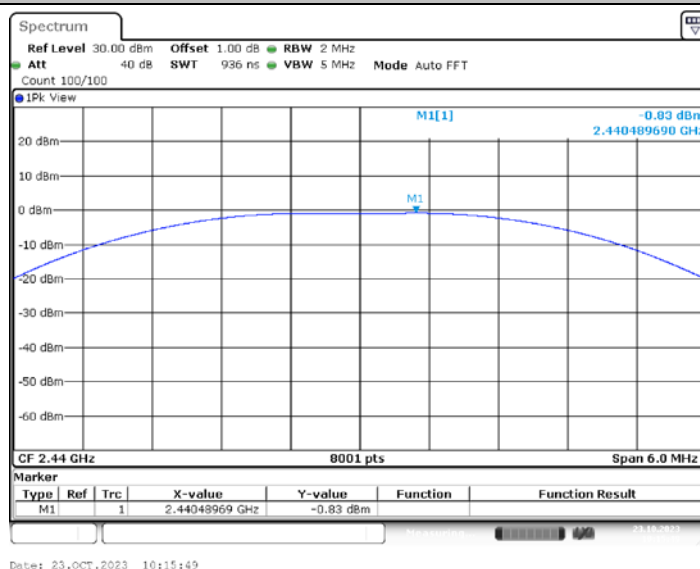
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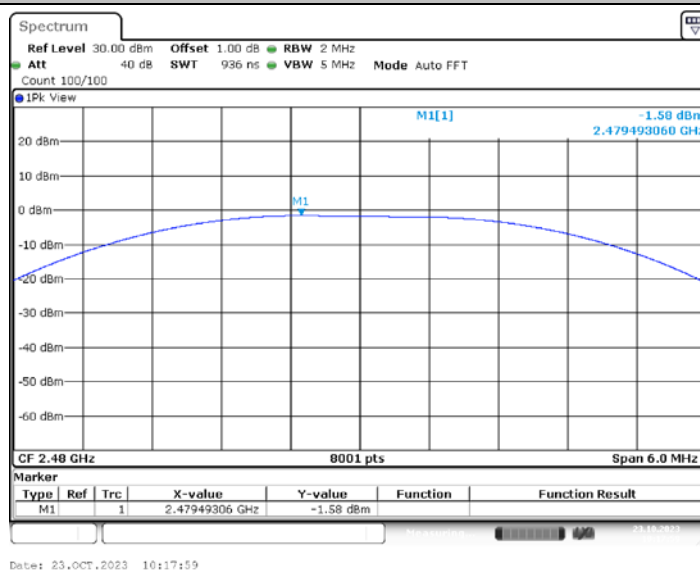
BLE_2Mbps_2402



BLE_2Mbps_2440



BLE_2Mbps_2480



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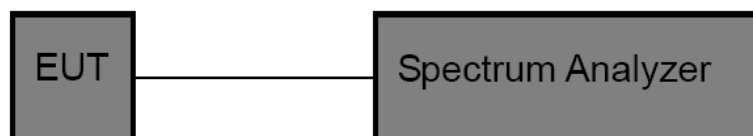
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

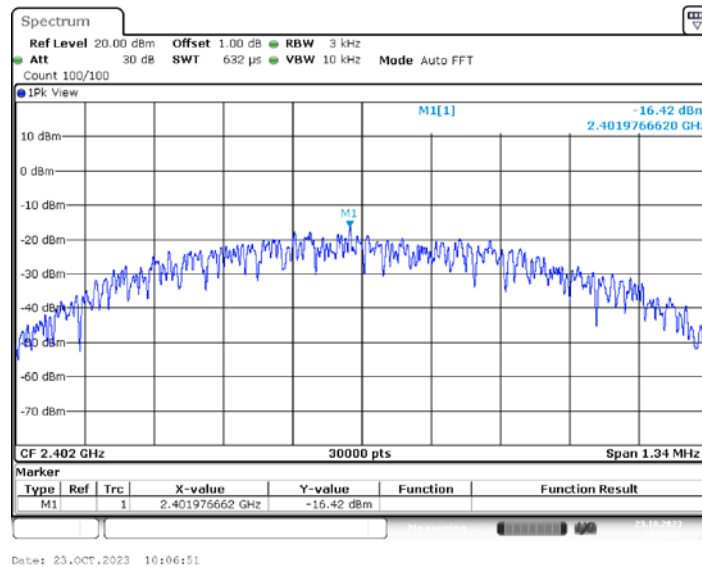
Please refer to the clause 2.4.

Test Result

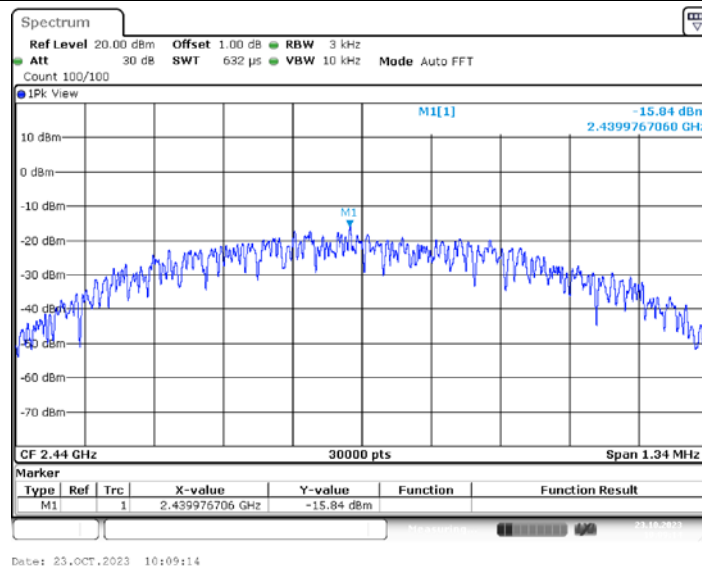
Test Mode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE 1Mbps	2402	-16.42	<=8	PASS
	2440	-15.84	<=8	PASS
	2480	-16.78	<=8	PASS
BLE 2Mbps	2402	-19.33	<=8	PASS
	2440	-18.80	<=8	PASS
	2480	-19.65	<=8	PASS



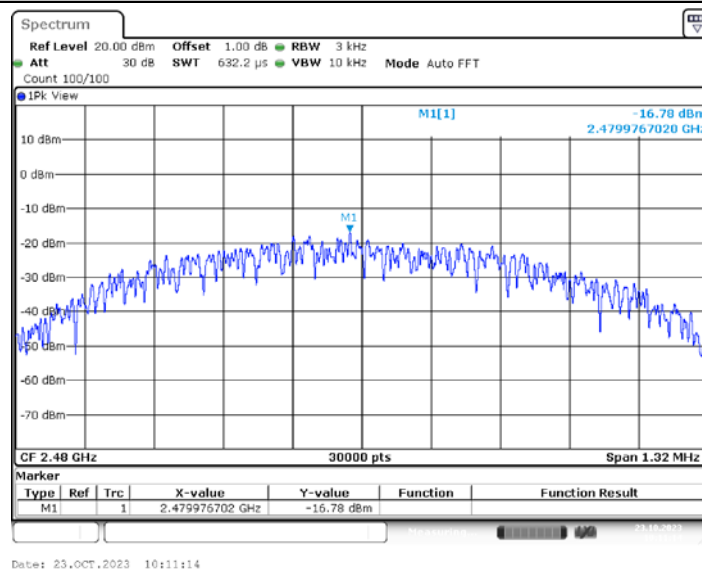
BLE_1Mbps_2402



BLE_1Mbps_2440



BLE_1Mbps_2480



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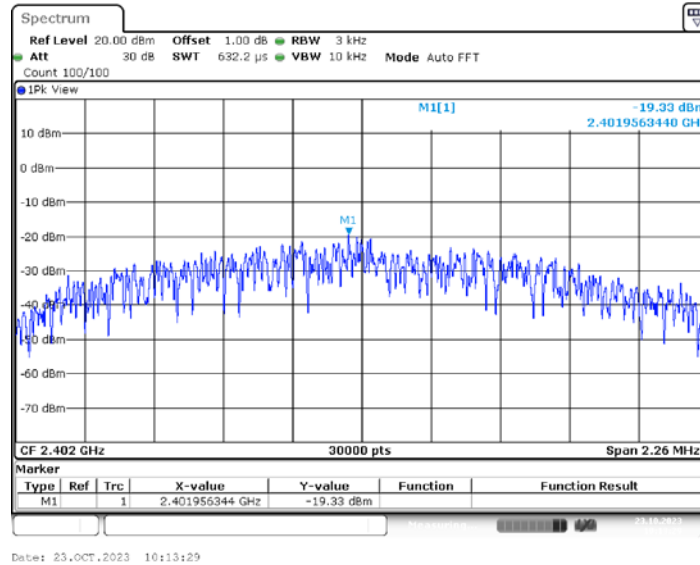
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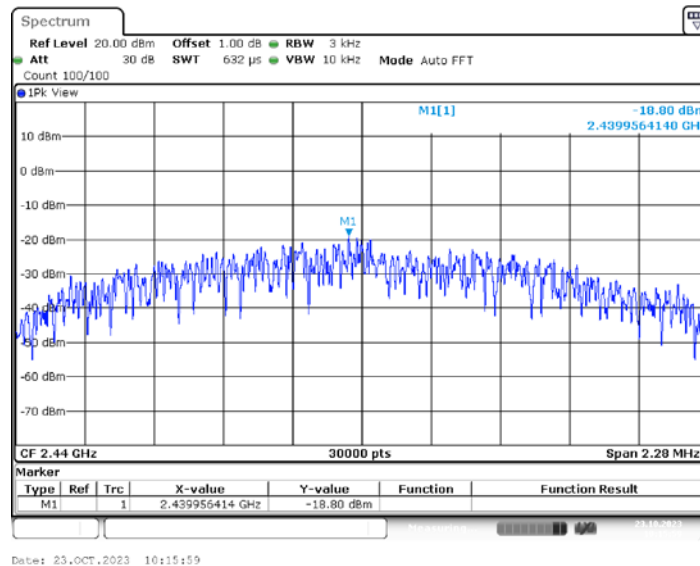
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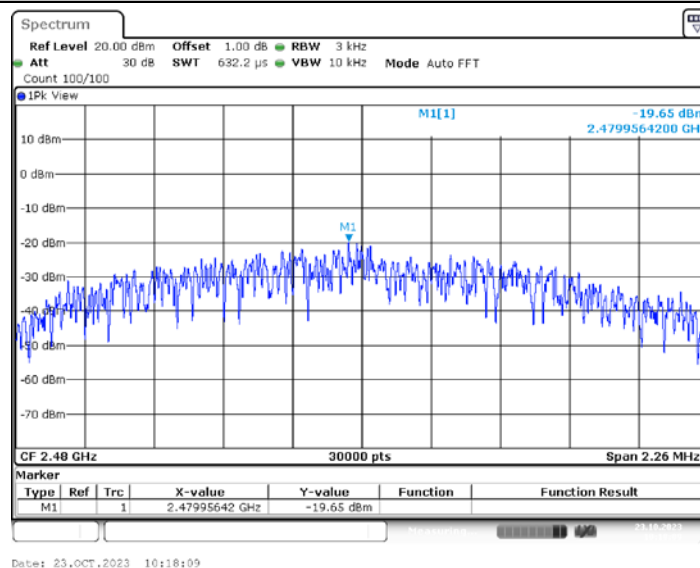
BLE_2Mbps_2402



BLE_2Mbps_2440



BLE_2Mbps_2480



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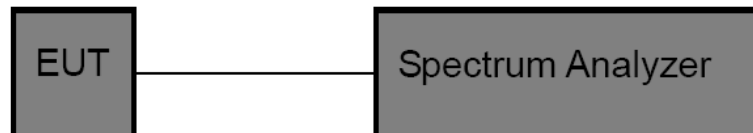


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz
Set the RBW to 10MHz
Set the VBW to 10MHz
Detector: Peak
Sweep time: Auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

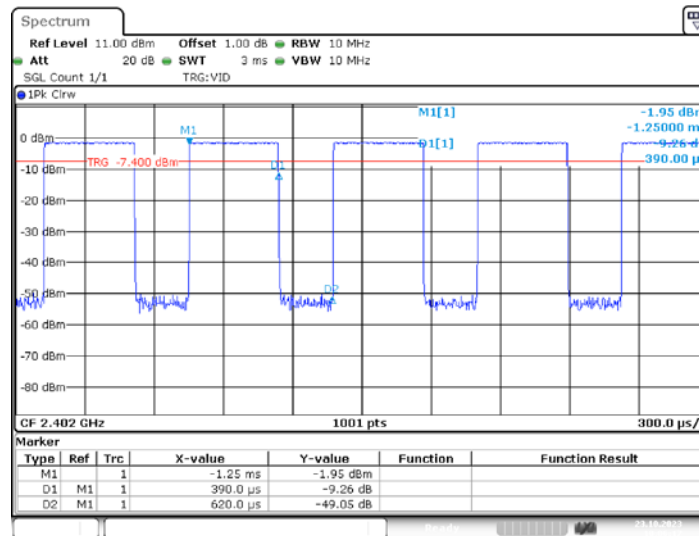
Please refer to the clause 2.4.

Test Result

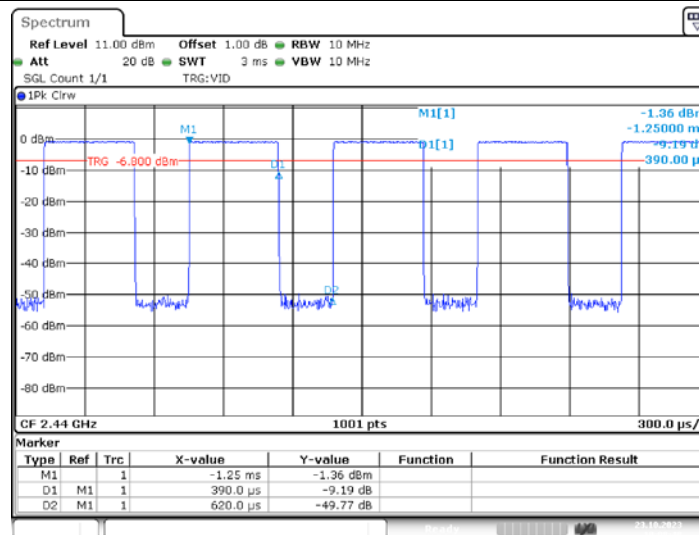
Test Mode	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
BLE 1Mbps	2402	0.39	0.62	62.90	2.564	3
	2440	0.39	0.62	62.90	2.564	3
	2480	0.39	0.62	62.90	2.564	3
BLE 2Mbps	2402	0.21	0.63	33.33	4.762	5
	2440	0.21	0.63	33.33	4.762	5
	2480	0.21	0.63	33.33	4.762	5



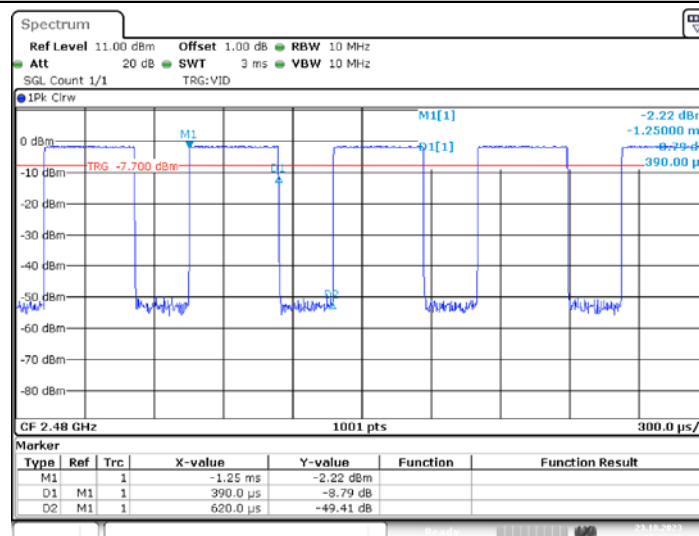
BLE_1Mbps_2402



BLE_1Mbps_2440



BLE_1Mbps_2480



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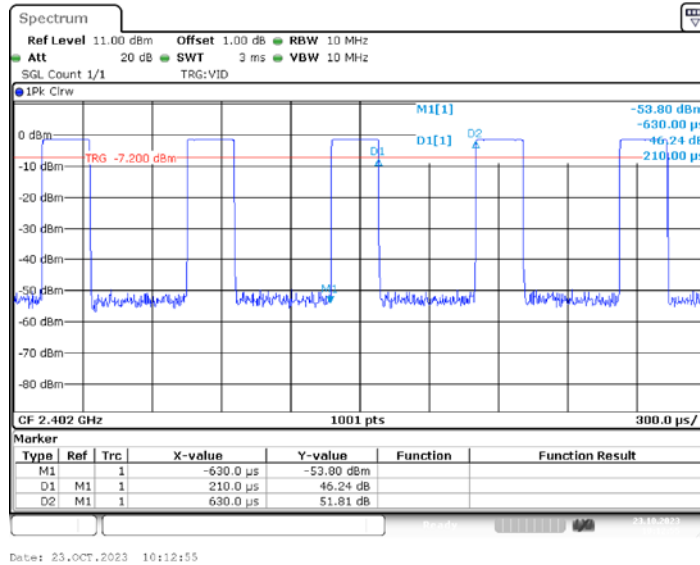
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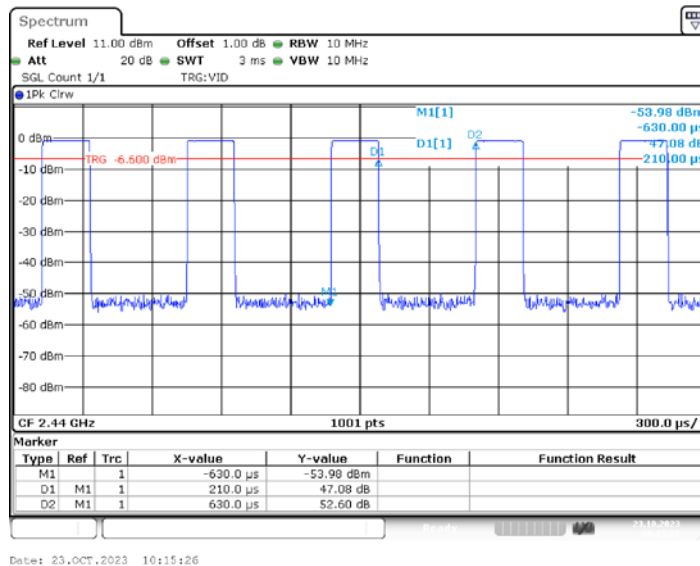
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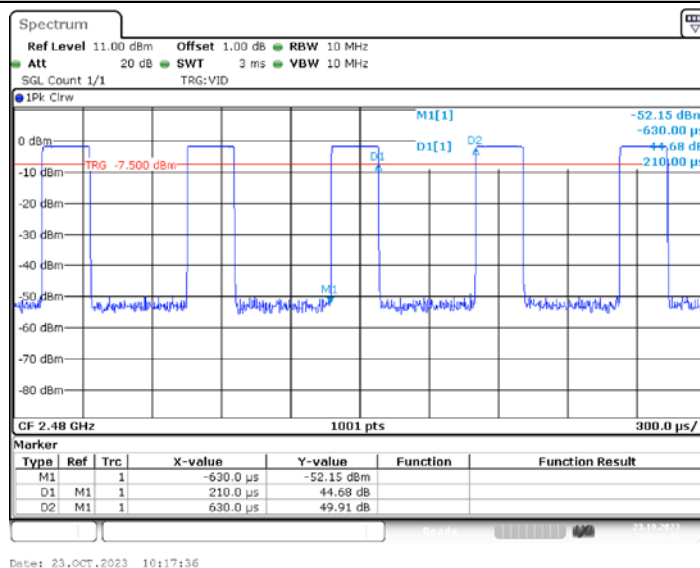
BLE_2Mbps_2402



BLE_2Mbps_2440



BLE_2Mbps_2480



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3.9. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****