



Report No.: TW2212032E

Applicant: Witbe SA

Product: WitboxPlus

Model No.: WitboxPlus, Witbox+

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: February 09, 2023

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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 No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Witbe SA
Address: 18-22 rue d'Arras, Batiment A11, 92000 NANTERRE, France.
Telephone: --
Fax: --

1.3 Description of EUT

Product: WitboxPlus
Manufacturer: Nanjing Magewell Electronics CO., Ltd.
Address: 14th Floor, Building 3, No.89 Shengli Road, Jiangning Economic and Technological Development Zone, Nanjing, China.
Trademark: N/A
Additional Trademark: N/A
Model Number: WitboxPlus
Additional Model Number: Witbox+
Serial No.: P-2209-00249
Type of Modulation: GFSK (Bluetooth BLE)
Frequency range: 2402-2480MHz
Frequency Selection: By software
Channel Number: 40
Rating: DC12V, 7.5A, 90W
Power Supply: Model: WTA96-1200750-T
Input: 100-240V~, 50/60Hz, 1.5A; Output: 12V, 7.5A, 90W

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2022-12-02 to 2023-02-09

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm/3kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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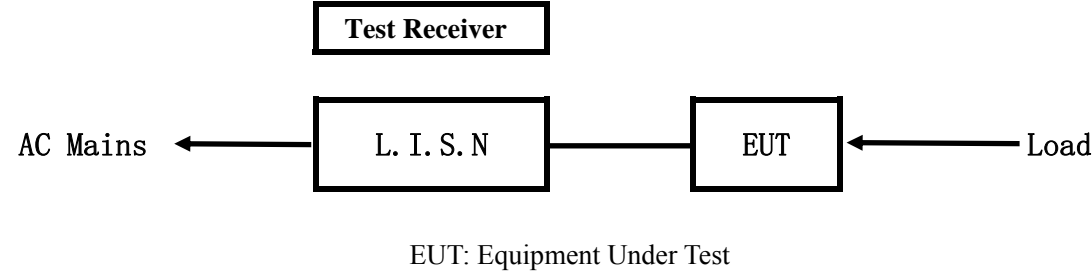
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

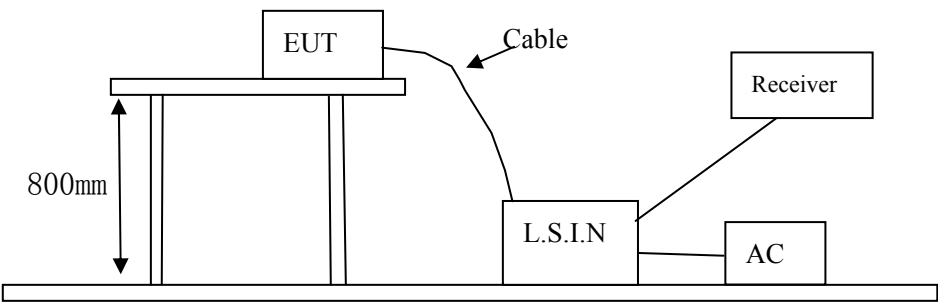


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
WitboxPlus	Nanjing Magewell Electronics CO., Ltd.	WitboxPlus, Witbox+	2A9UN-WITBOXPL US01

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
PC	Dell	P54G	--

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

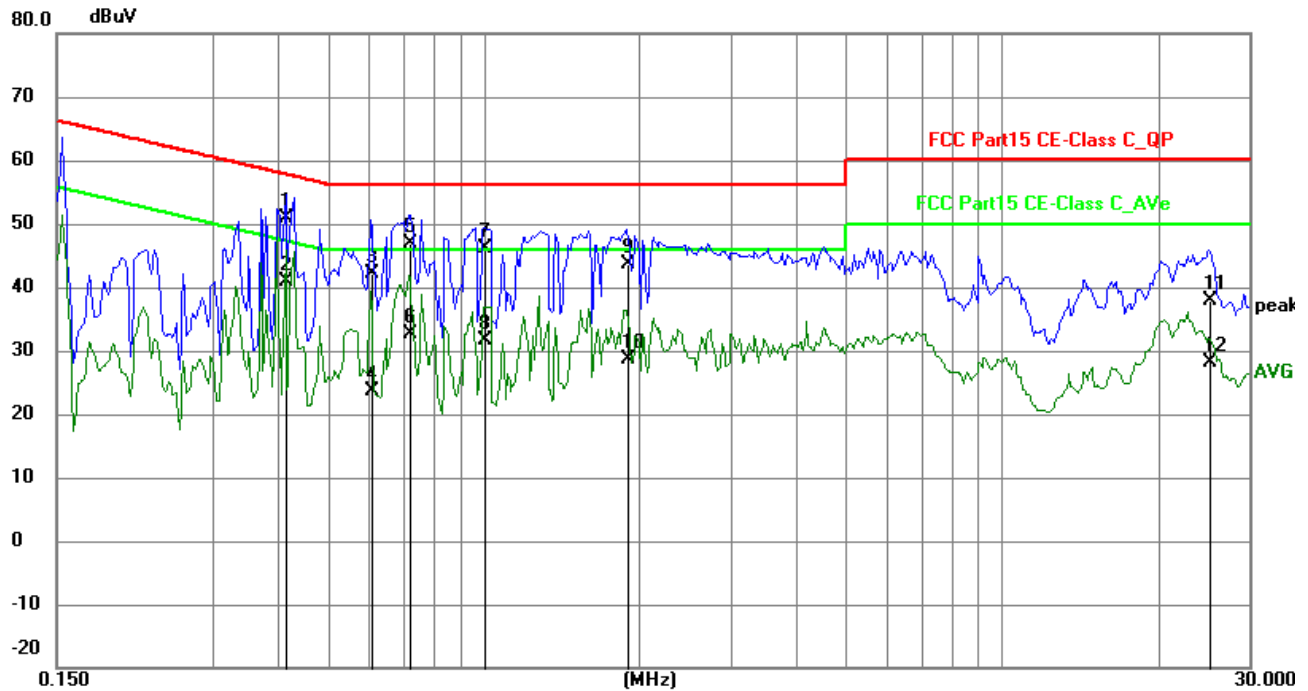
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4152	41.03	9.76	50.79	57.54	-6.75	QP	P
2	0.4152	31.24	9.76	41.00	47.54	-6.54	AVG	P
3	0.6063	32.44	9.78	42.22	56.00	-13.78	QP	P
4	0.6063	13.83	9.78	23.61	46.00	-22.39	AVG	P
5	0.7194	37.01	9.78	46.79	56.00	-9.21	QP	P
6	0.7194	22.80	9.78	32.58	46.00	-13.42	AVG	P
7	1.0002	36.46	9.79	46.25	56.00	-9.75	QP	P
8	1.0002	21.83	9.79	31.62	46.00	-14.38	AVG	P
9	1.8894	33.77	9.80	43.57	56.00	-12.43	QP	P
10	1.8894	18.89	9.80	28.69	46.00	-17.31	AVG	P
11	25.1325	26.90	11.00	37.90	60.00	-22.10	QP	P
12	25.1325	17.21	11.00	28.21	50.00	-21.79	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

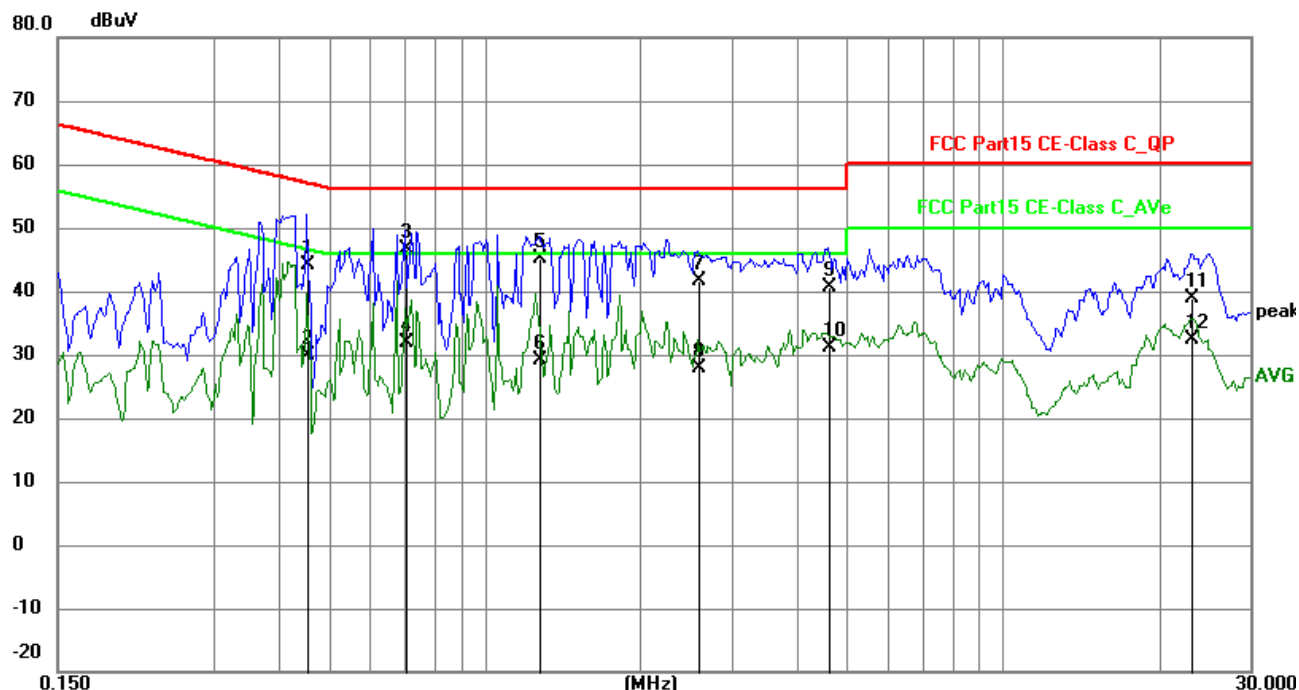
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4542	34.43	9.77	44.20	56.80	-12.60	QP	P
2	0.4542	20.20	9.77	29.97	46.80	-16.83	AVG	P
3	0.7038	36.80	9.78	46.58	56.00	-9.42	QP	P
4	0.7038	22.19	9.78	31.97	46.00	-14.03	AVG	P
5	1.2732	35.27	9.79	45.06	56.00	-10.94	QP	P
6	1.2732	19.46	9.79	29.25	46.00	-16.75	AVG	P
7	2.5836	31.71	9.83	41.54	56.00	-14.46	QP	P
8	2.5836	18.06	9.83	27.89	46.00	-18.11	AVG	P
9	4.6029	30.82	9.91	40.73	56.00	-15.27	QP	P
10	4.6029	21.19	9.91	31.10	46.00	-14.90	AVG	P
11	23.1318	28.09	10.87	38.96	60.00	-21.04	QP	P
12	23.1318	21.49	10.87	32.36	50.00	-17.64	AVG	P

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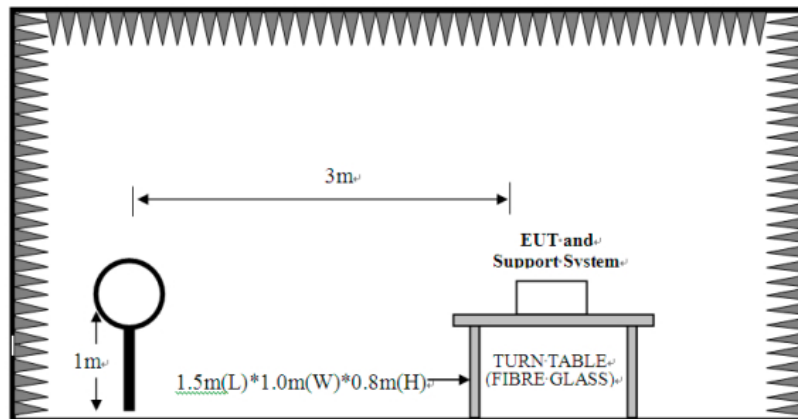
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



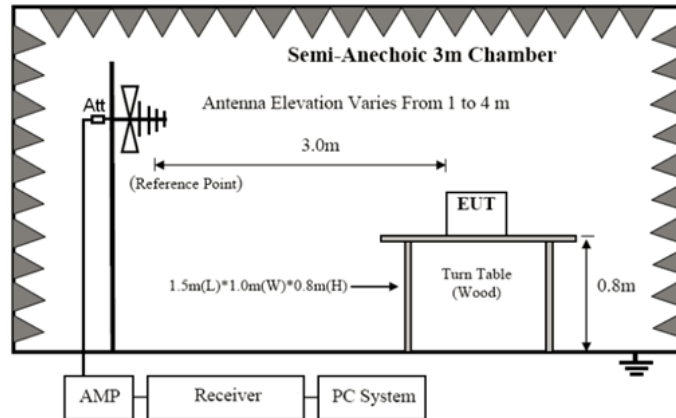
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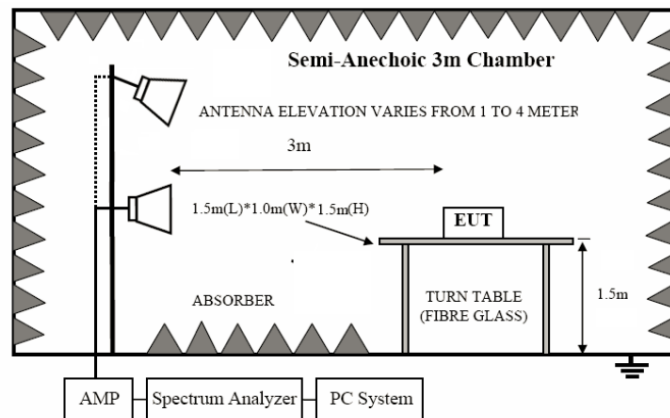
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = $20 \log$ RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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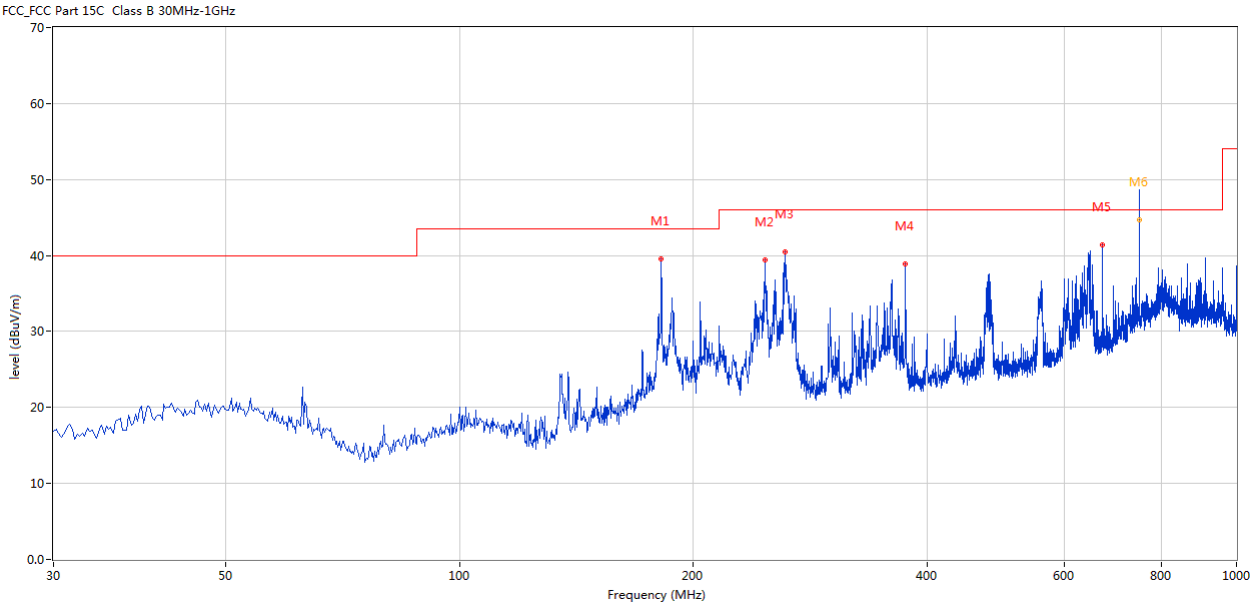
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	181.767	39.50	-15.05	43.5	-4.00	Peak	102.00	100	Horizontal	Pass
2	247.226	39.46	-12.10	46.0	-6.54	Peak	74.00	100	Horizontal	Pass
3	262.014	40.43	-11.90	46.0	-5.57	Peak	88.00	100	Horizontal	Pass
4	374.991	38.93	-9.44	46.0	-7.07	Peak	306.00	200	Horizontal	Pass
5	672.464	41.36	-4.48	46.0	-4.64	Peak	59.00	100	Horizontal	Pass
6*	749.803	44.72	-3.41	46.0	-1.28	QP	115.00	100	Horizontal	Pass

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Test result

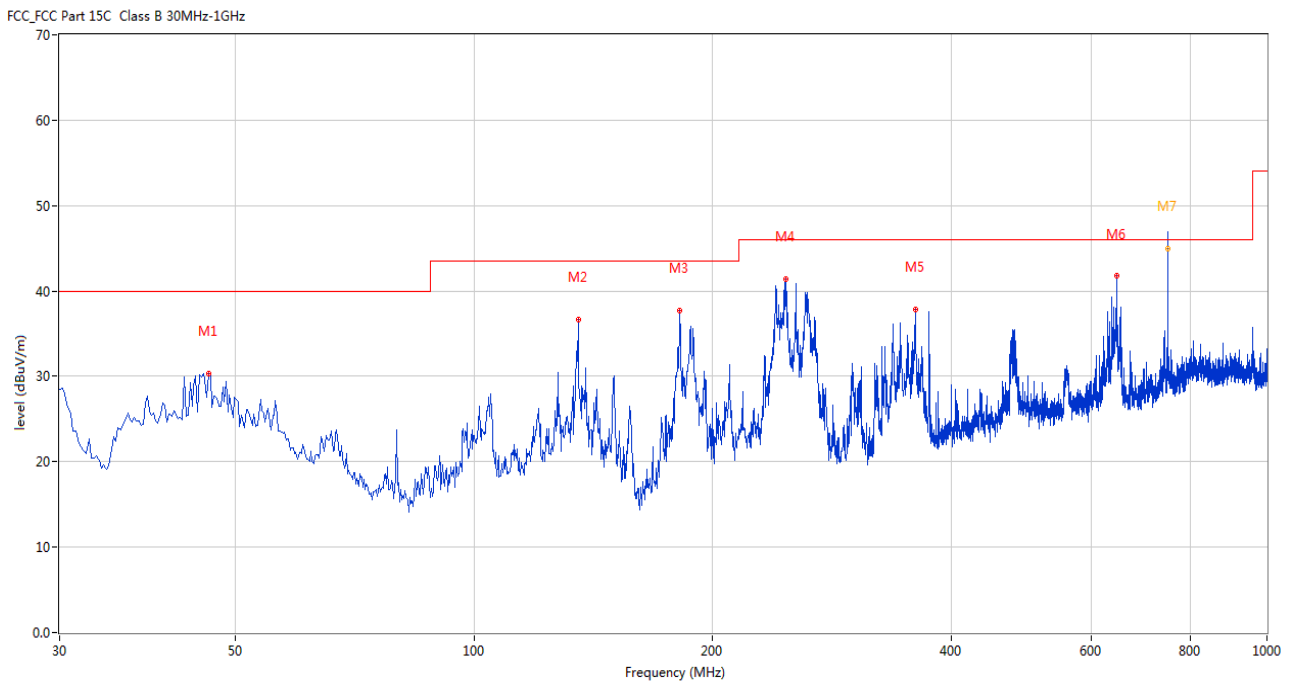
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.243	30.37	-11.41	40.0	-9.63	Peak	317.00	100	Vertical	Pass
2	135.219	36.60	-17.16	43.5	-6.90	Peak	42.00	100	Vertical	Pass
3	181.767	37.77	-15.05	43.5	-5.73	Peak	199.00	100	Vertical	Pass
4	247.468	41.42	-12.11	46.0	-4.58	Peak	298.00	100	Vertical	Pass
5	360.445	37.85	-9.50	46.0	-8.15	Peak	140.00	100	Vertical	Pass
6	647.008	41.73	-4.71	46.0	-4.27	Peak	6.00	100	Vertical	Pass
7*	749.803	45.01	-3.41	46.0	-0.99	QP	0.00	100	Vertical	Pass

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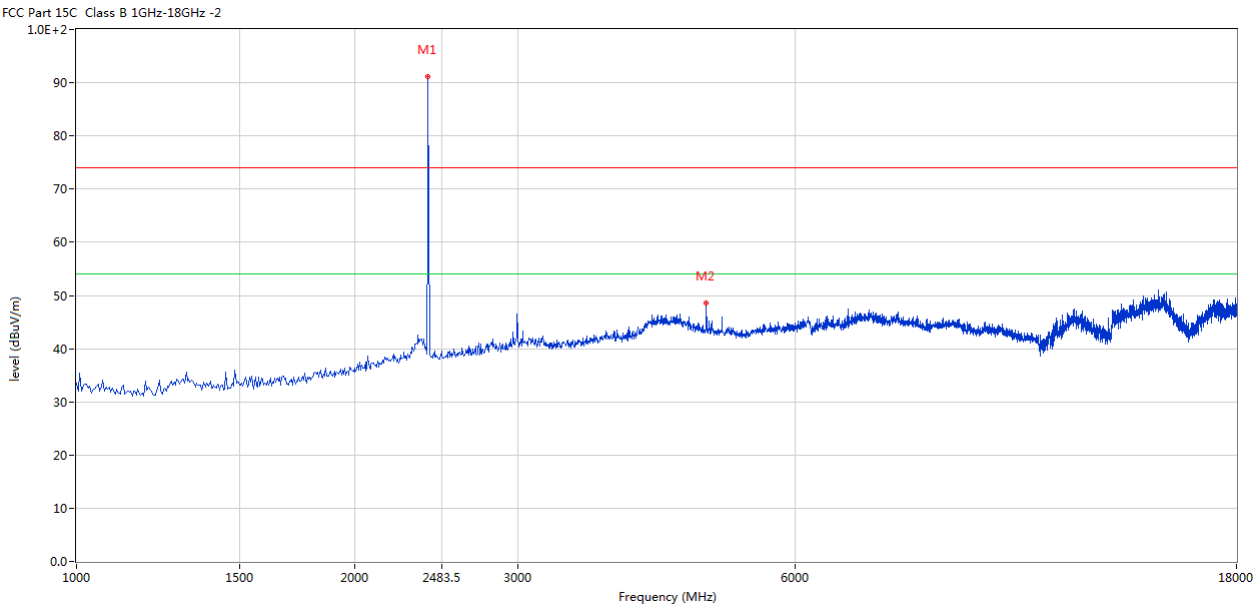


Only One Bluetooth Modular Transmitting

Data Rate: 1Mbps

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	91.17	-3.57	74.0	17.17	Peak	244.00	100	Horizontal	N/A
2	4802.799	48.65	3.12	74.0	-25.35	Peak	213.00	100	Horizontal	Pass

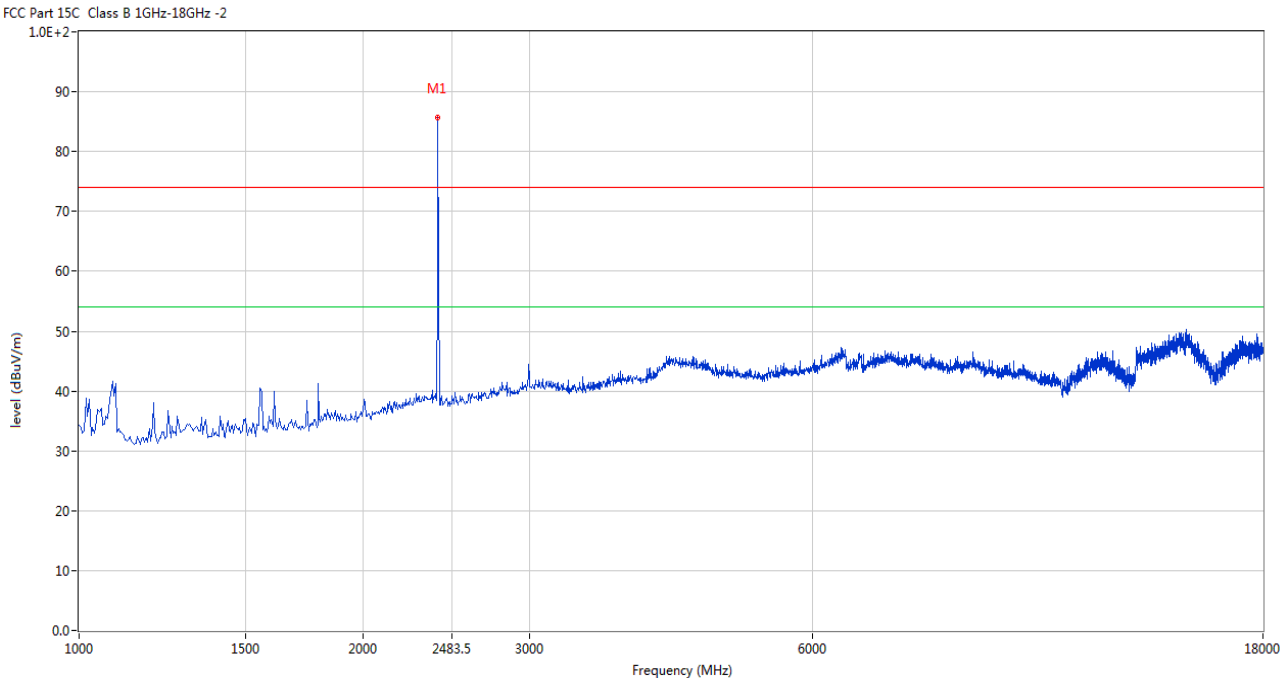
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	85.61	-3.57	74.0	11.61	Peak	220.00	100	Vertical	N/A

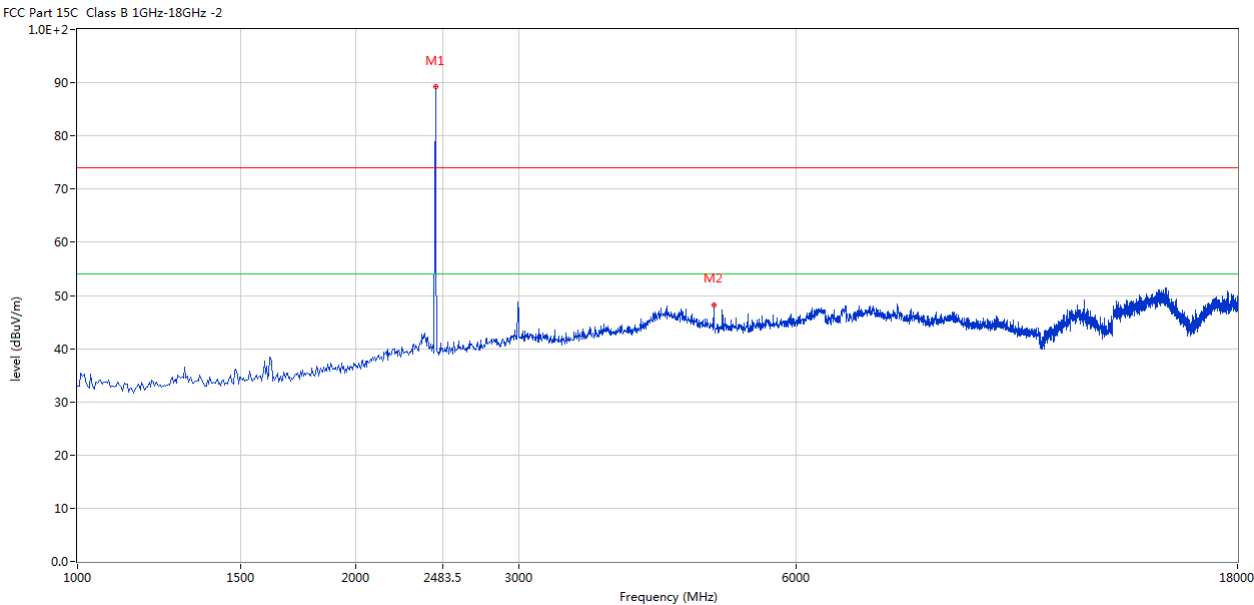
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	89.23	-3.57	74.0	15.23	Peak	151.00	100	Horizontal	N/A
2	4879.280	48.21	3.20	74.0	-25.79	Peak	151.00	100	Horizontal	Pass

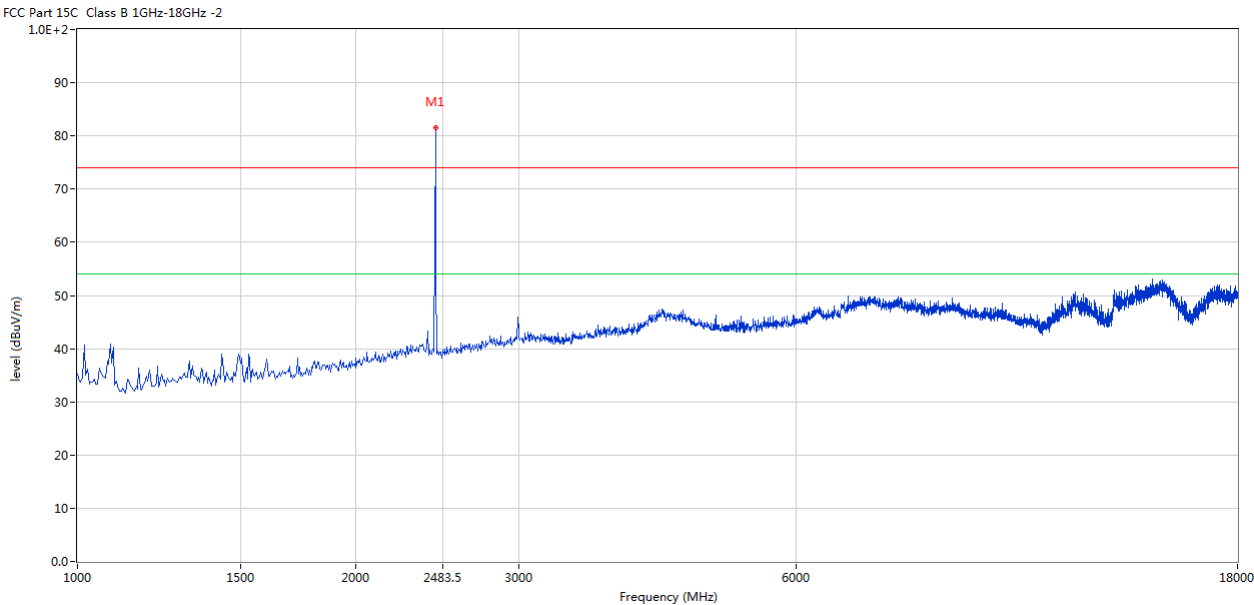
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	81.45	-3.57	74.0	7.45	Peak	91.00	100	Vertical	N/A

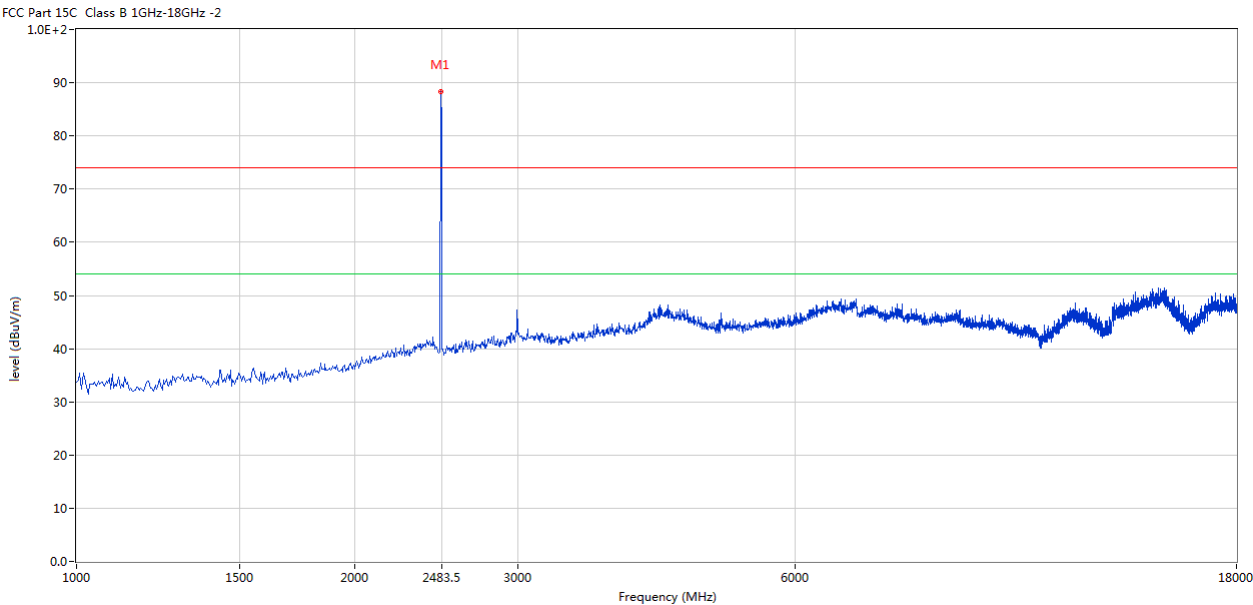
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.40	-3.57	74.0	14.40	Peak	208.00	100	Horizontal	N/A

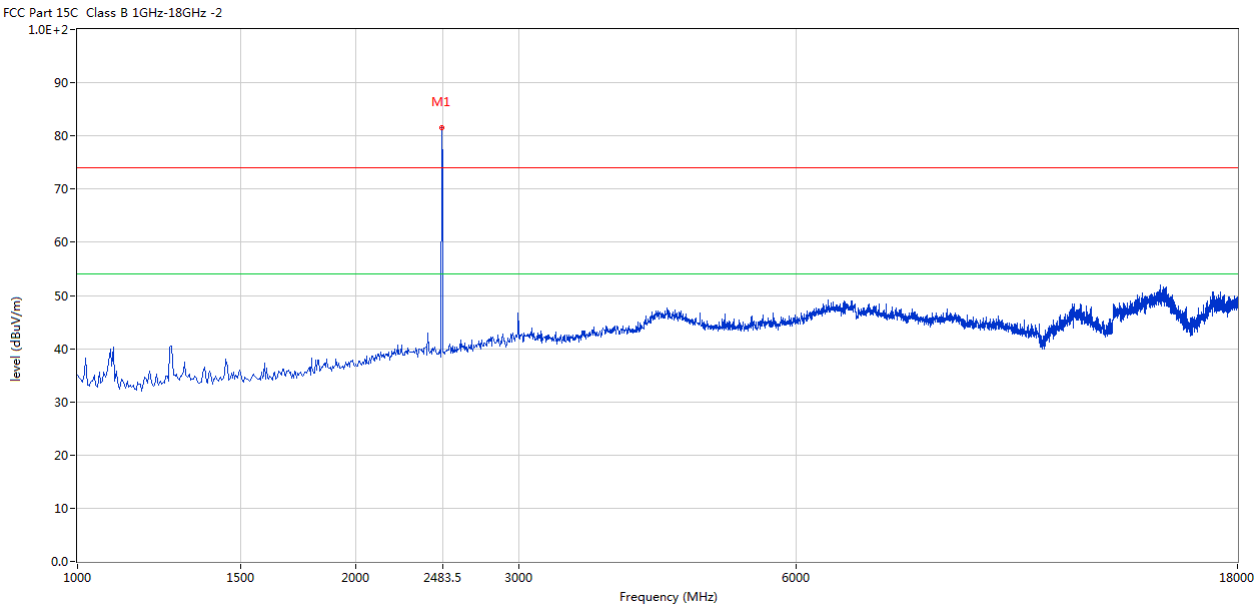
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.45	-3.57	74.0	7.45	Peak	61.00	100	Vertical	N/A

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
4. EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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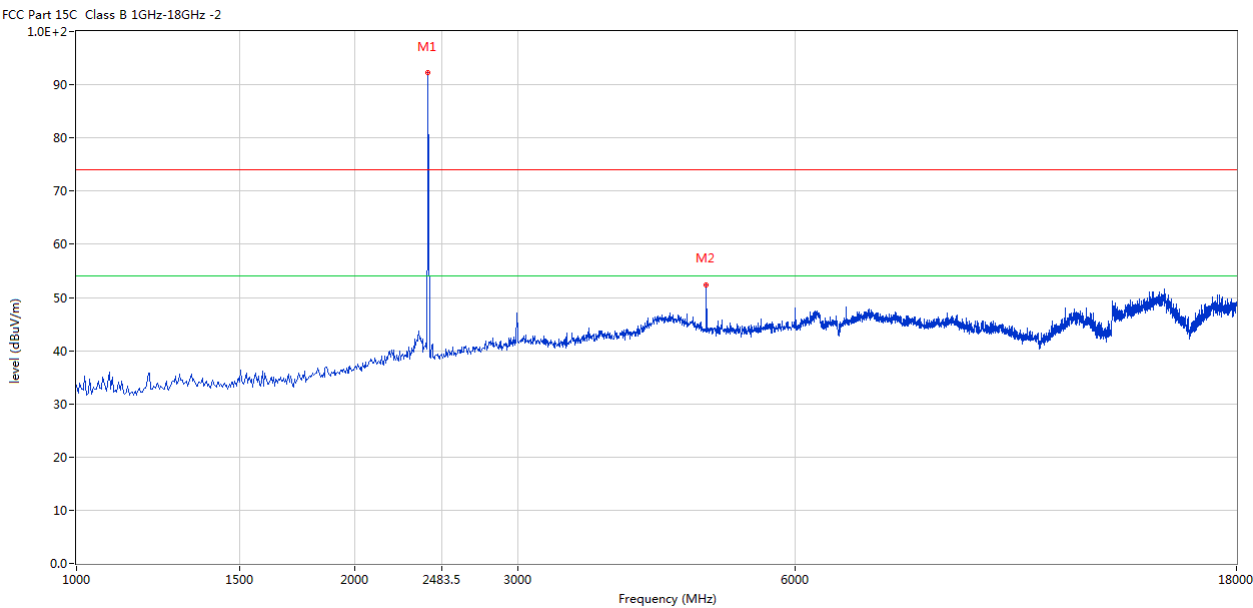


Only One Bluetooth Modular Transmitting

Data Rate: 2Mbps

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	92.31	-3.57	74.0	18.31	Peak	48.00	100	Horizontal	N/A
2	4802.799	53.32	3.12	74.0	-20.68	Peak	48.00	100	Horizontal	Pass

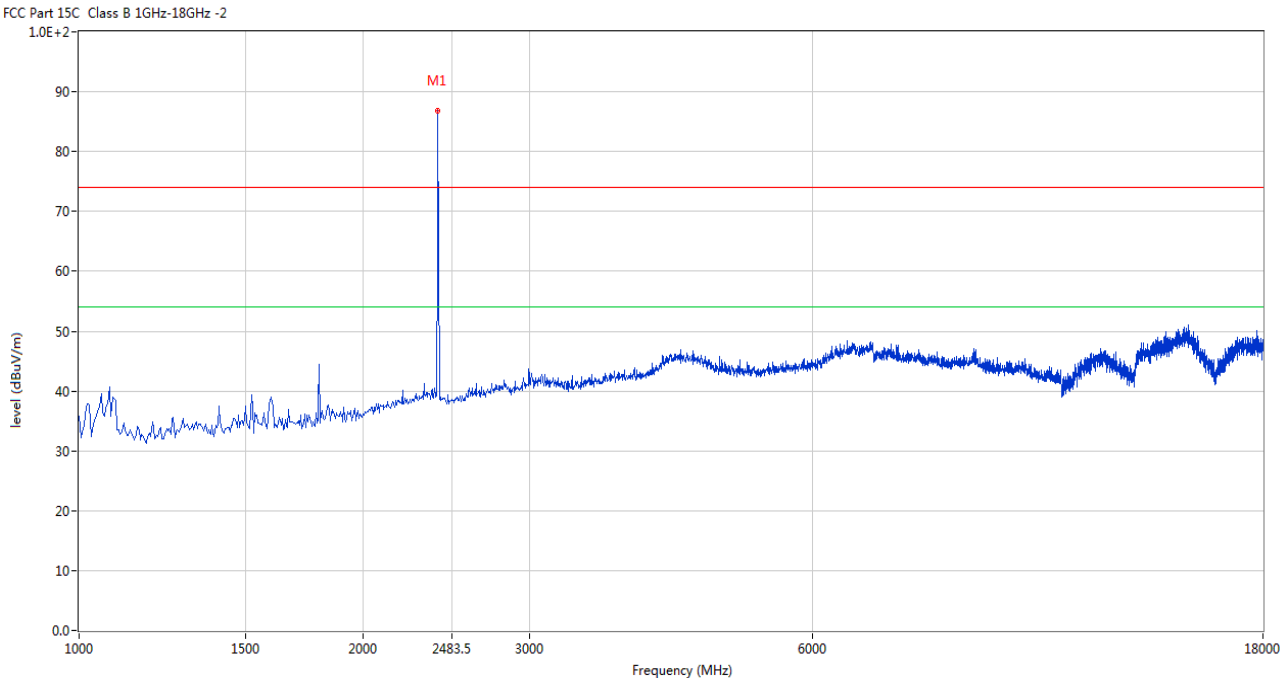
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	86.82	-3.57	74.0	12.82	Peak	73.00	100	Vertical	N/A

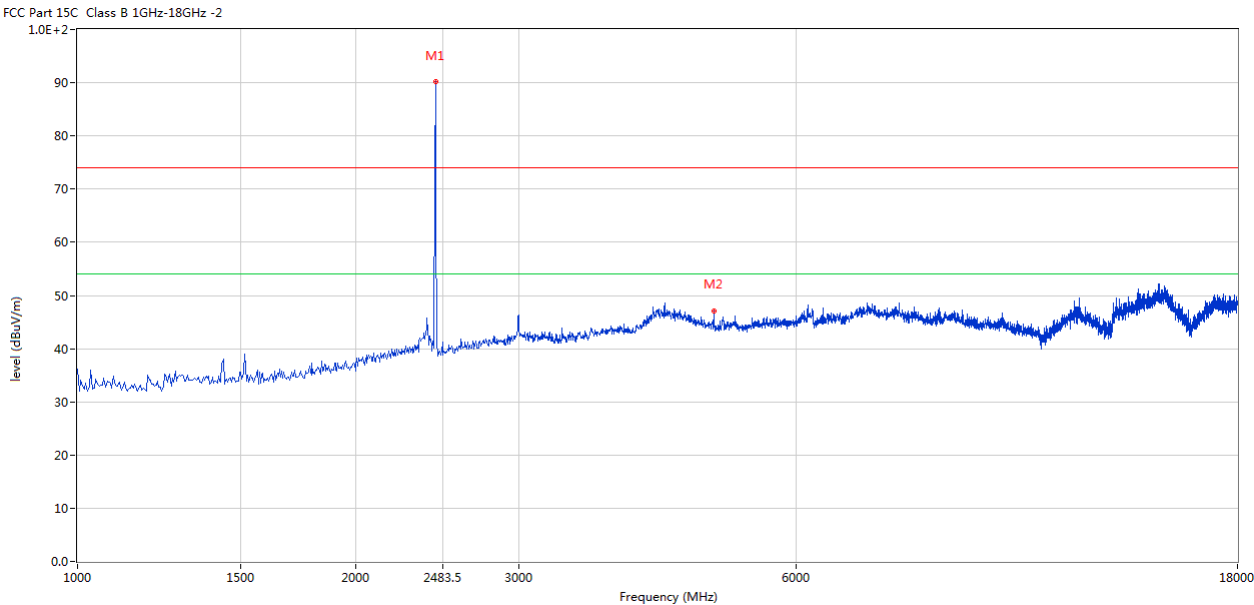
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	90.18	-3.57	74.0	16.18	Peak	45.00	100	Horizontal	N/A
2	4879.280	47.00	3.20	74.0	-27.00	Peak	45.00	100	Horizontal	Pass

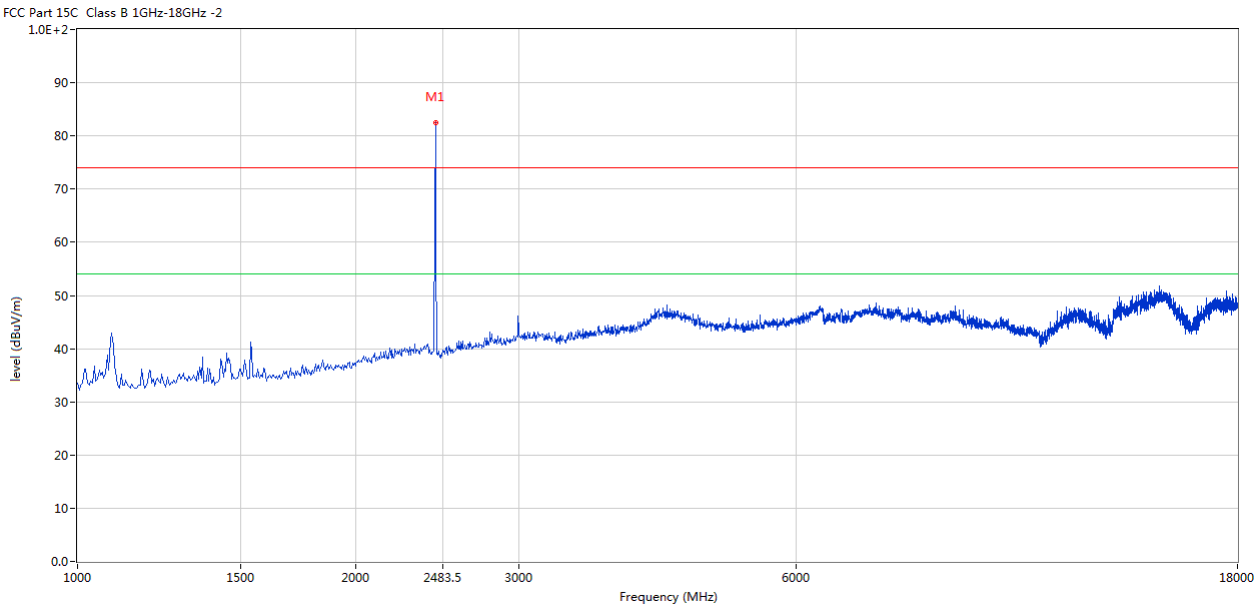
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	82.44	-3.57	74.0	8.44	Peak	66.00	100	Vertical	N/A

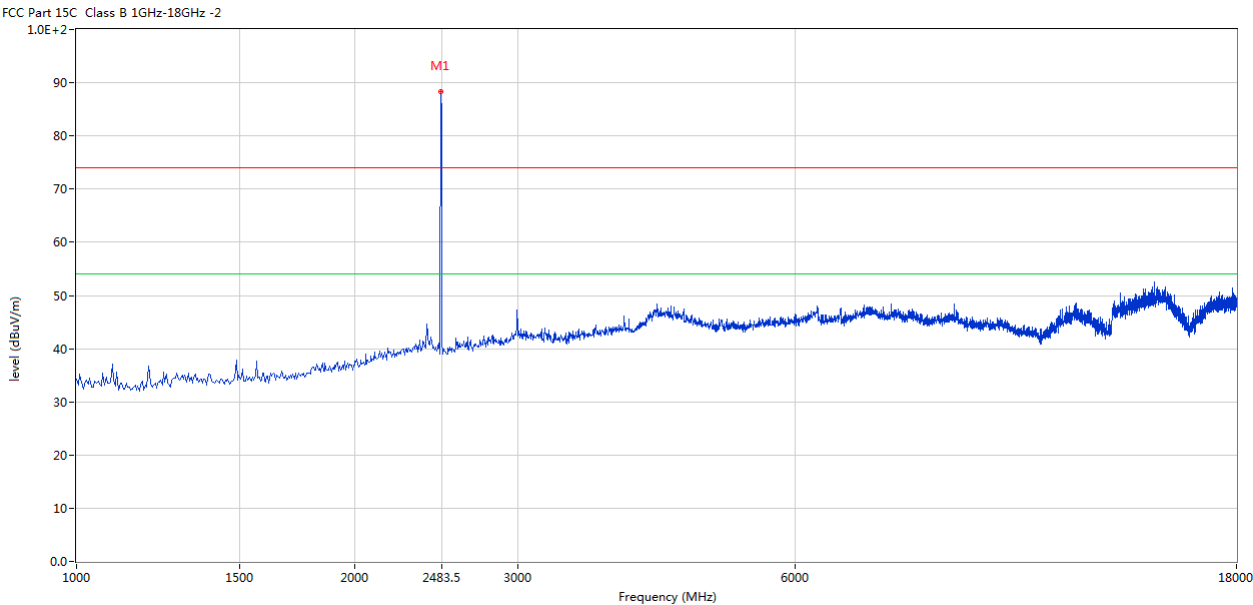
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.28	-3.57	74.0	14.28	Peak	56.00	100	Horizontal	N/A

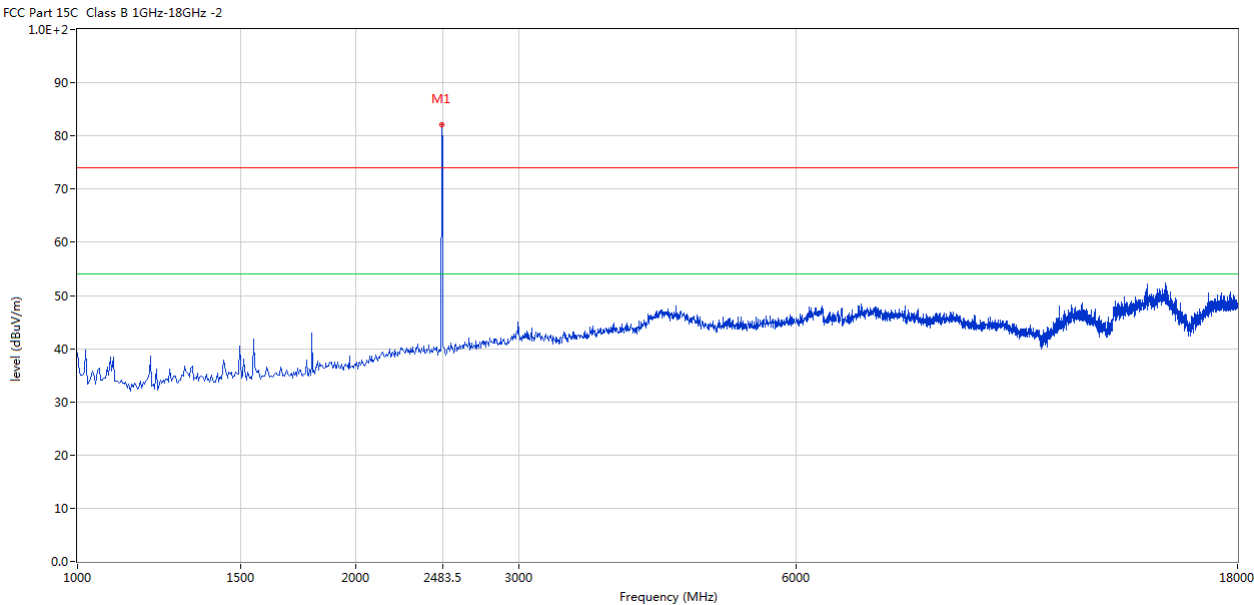
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	82.10	-3.57	74.0	8.10	Peak	74.00	100	Vertical	N/A

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
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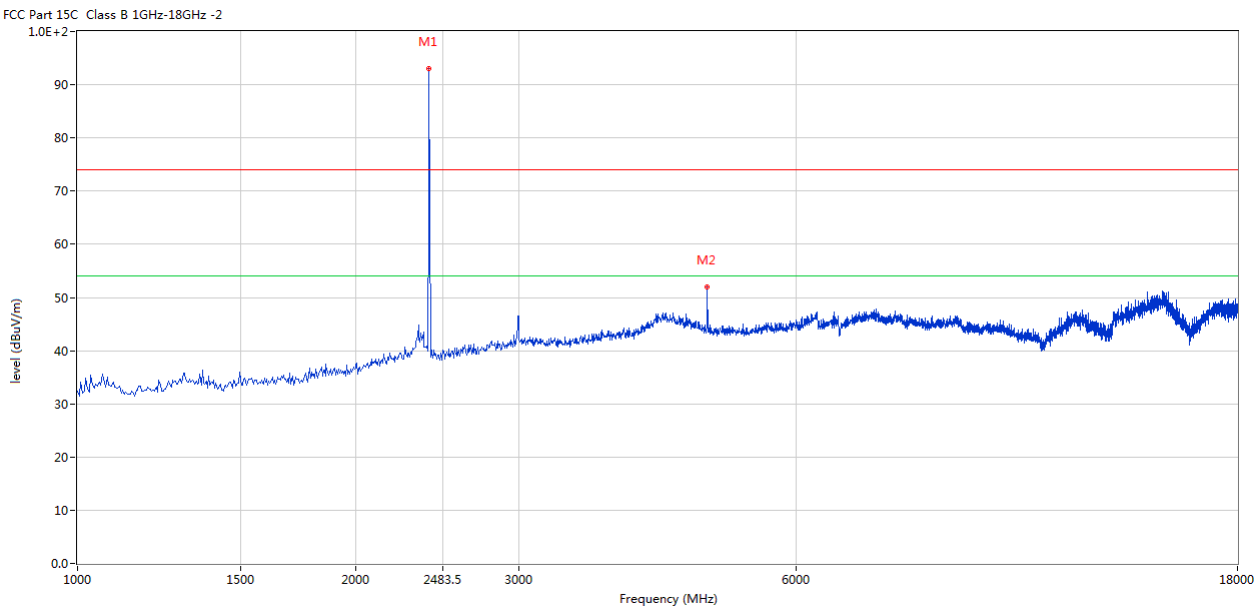


Four Bluetooth Modular Transmitting simultaneously

Data Rate: 1Mbps

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.05	-3.57	74.0	19.05	Peak	196.00	100	Horizontal	N/A
2	4802.799	52.03	3.12	74.0	-21.97	Peak	196.00	100	Horizontal	Pass

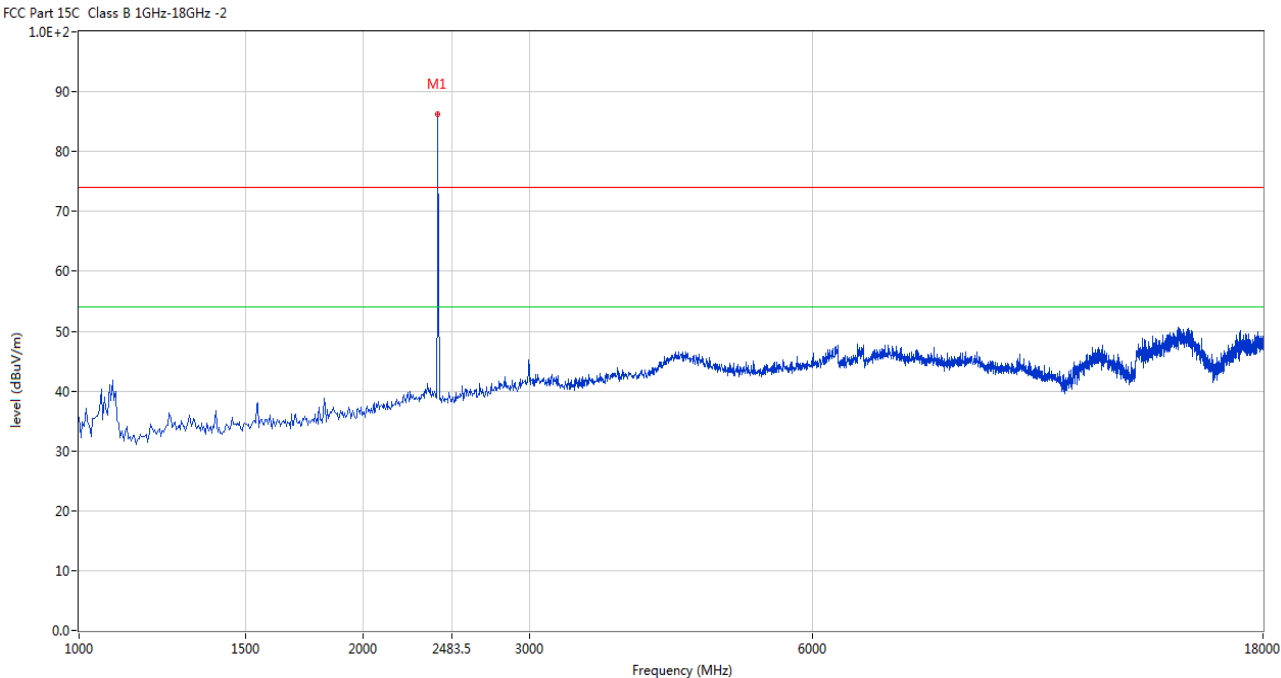
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	86.34	-3.57	74.0	12.34	Peak	206.00	100	Vertical	N/A

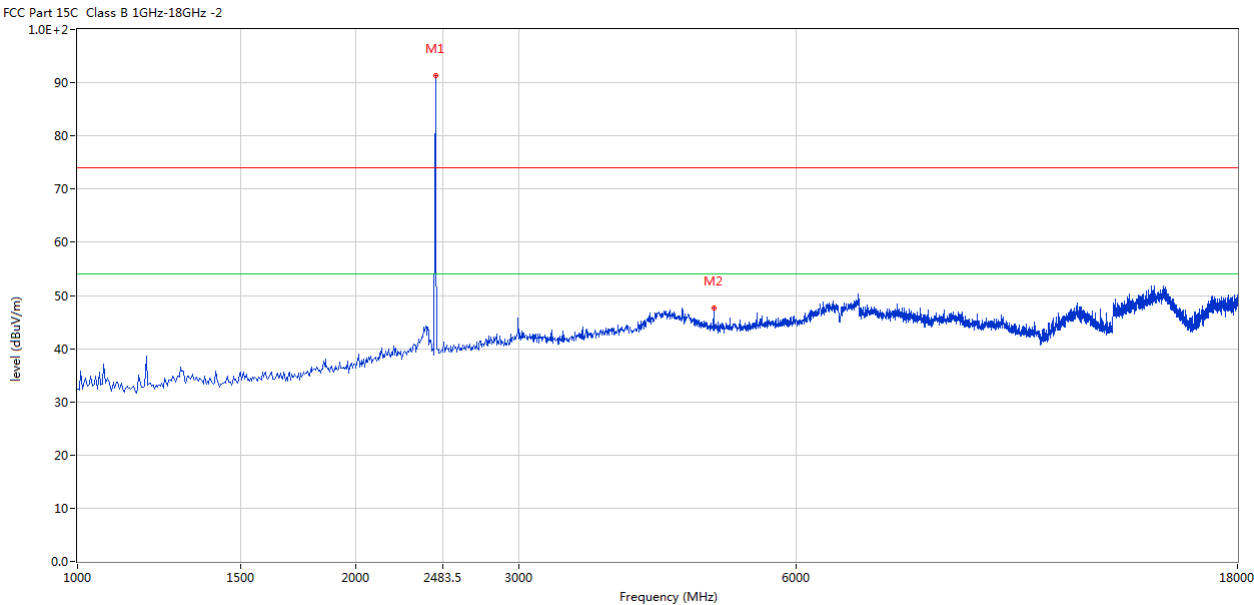
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	91.40	-3.57	74.0	17.40	Peak	200.00	100	Horizontal	N/A
2	4879.280	47.68	3.20	74.0	-26.32	Peak	200.00	100	Horizontal	Pass

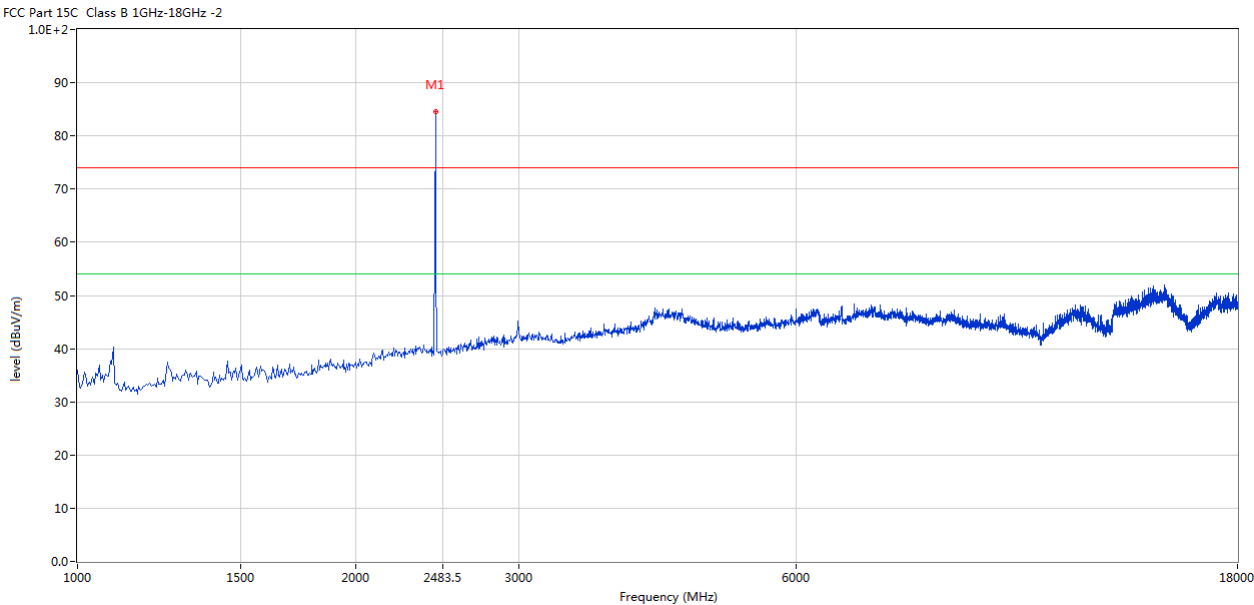
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	84.61	-3.57	74.0	10.61	Peak	292.00	100	Vertical	N/A

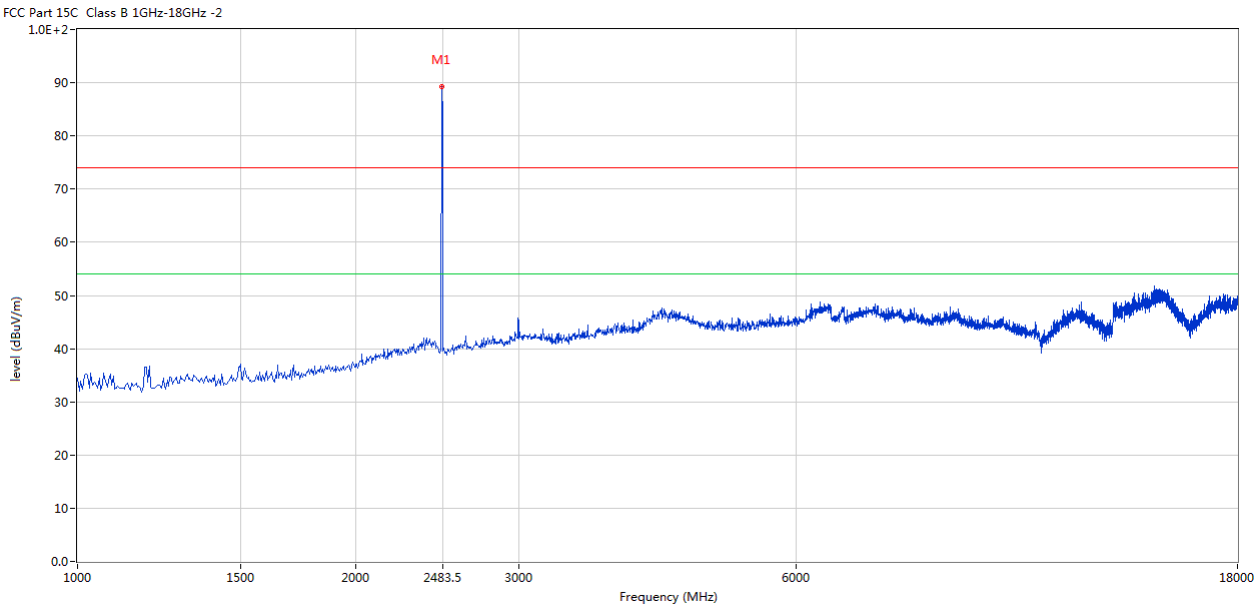
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	89.27	-3.57	74.0	15.27	Peak	197.00	100	Horizontal	N/A

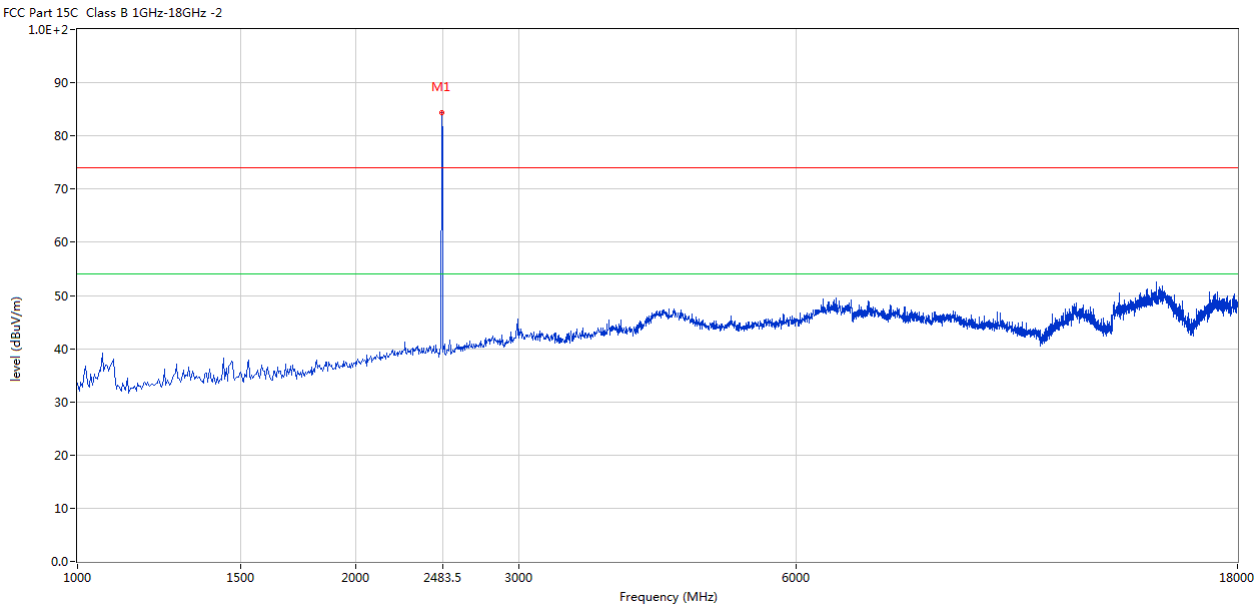
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	84.32	-3.57	74.0	10.32	Peak	294.00	100	Vertical	N/A

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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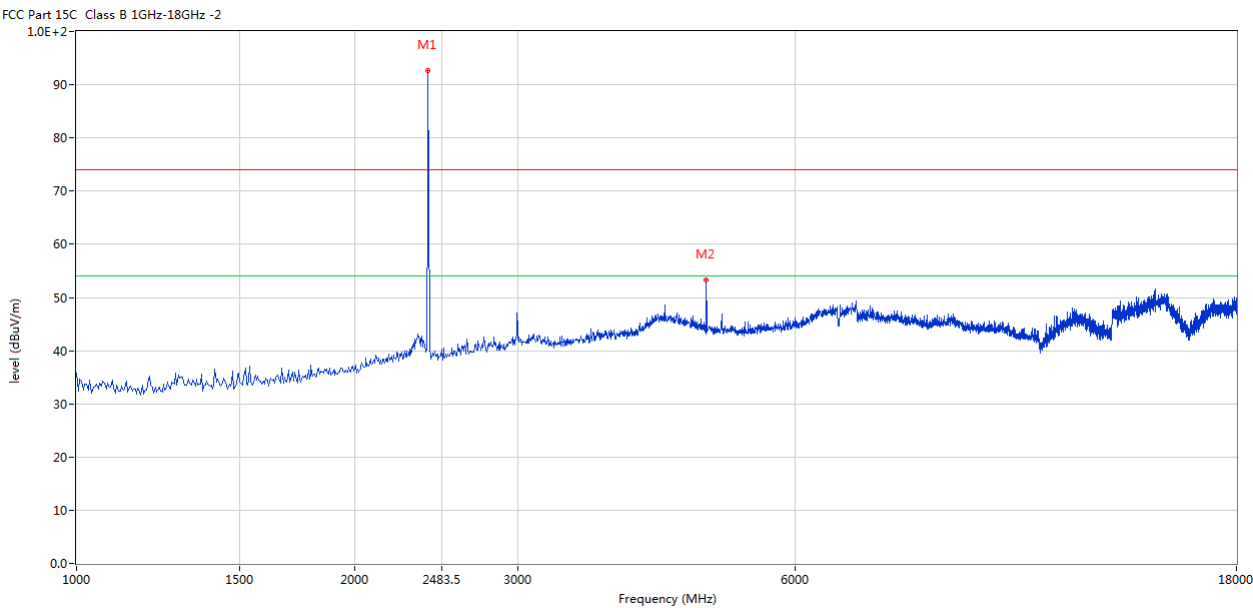


Four Bluetooth Modular Transmitting simultaneously

Data Rate: 2Mbps

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	92.62	-3.57	74.0	18.62	Peak	44.00	100	Horizontal	N/A
2	4802.799	53.21	3.12	74.0	-20.79	Peak	50.00	100	Horizontal	Pass

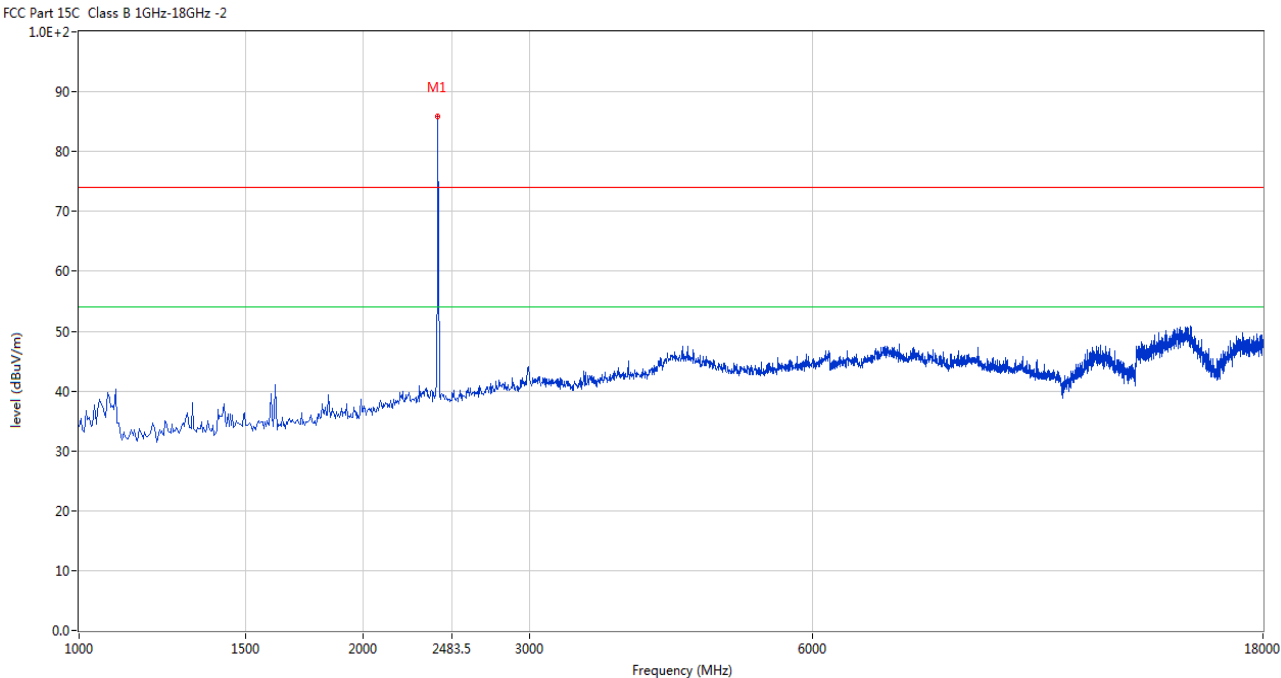
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	85.80	-3.57	74.0	11.80	Peak	75.00	100	Vertical	N/A

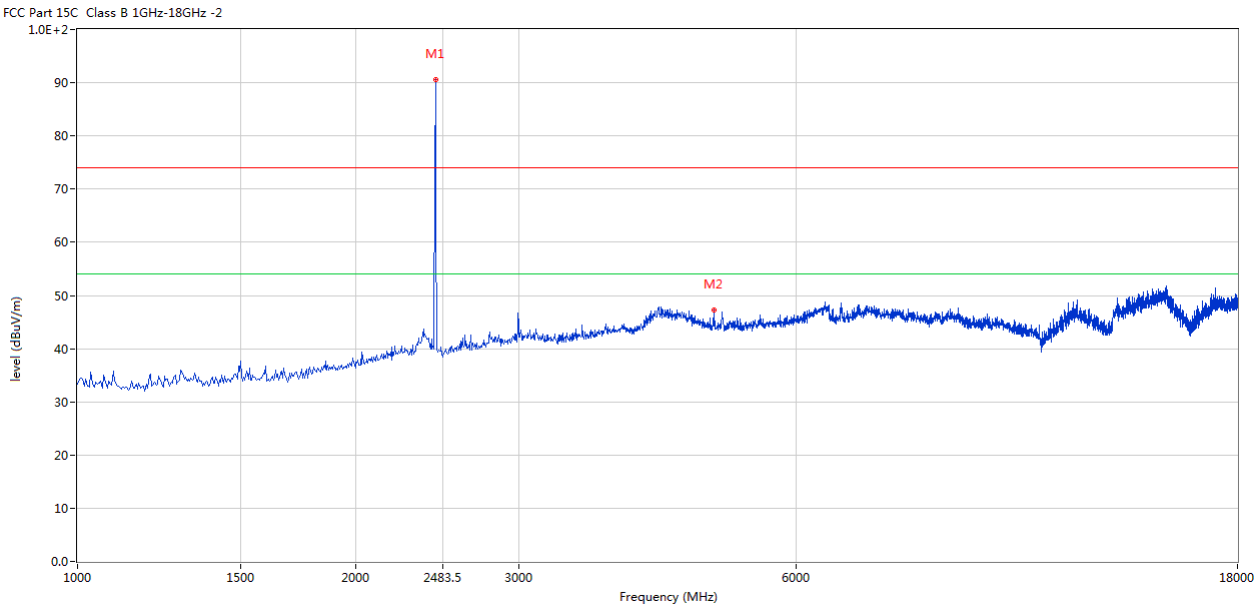
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	90.56	-3.57	74.0	16.56	Peak	45.00	100	Horizontal	N/A
2	4879.280	47.25	3.20	74.0	-26.75	Peak	45.00	100	Horizontal	Pass

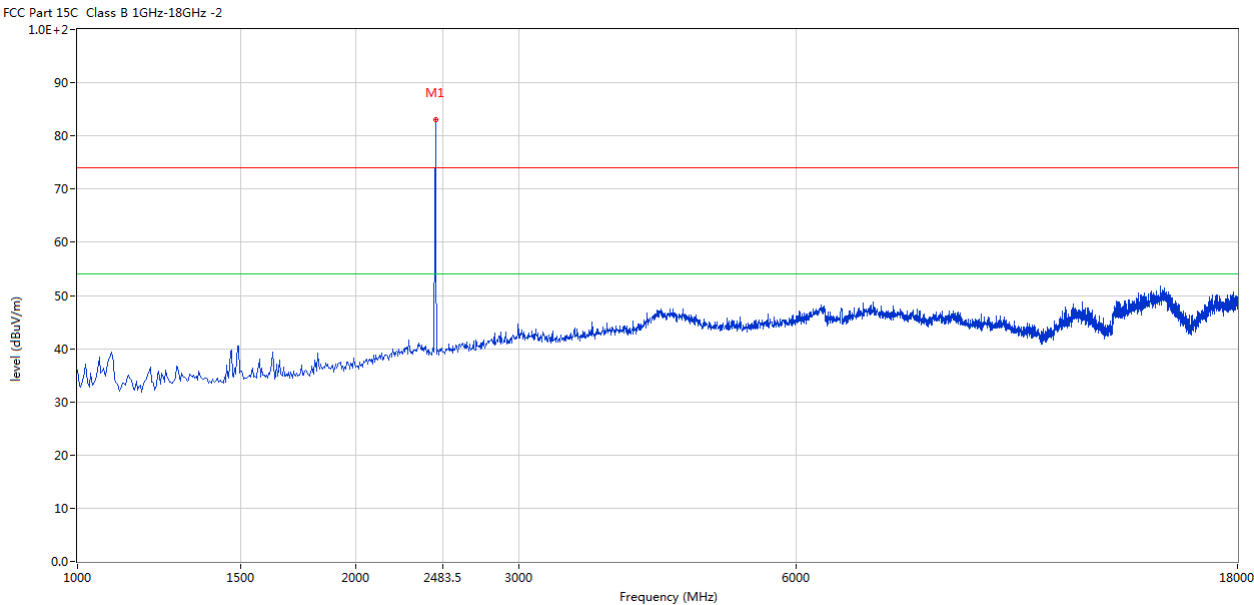
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	83.07	-3.57	74.0	9.07	Peak	68.00	100	Vertical	N/A

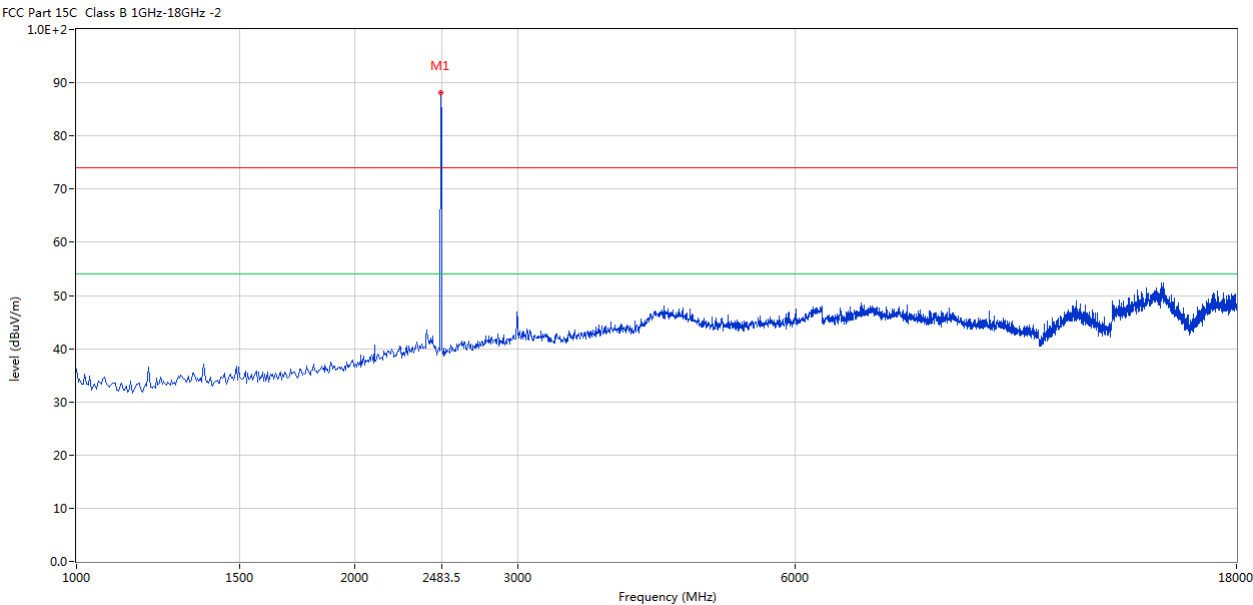
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.15	-3.57	74.0	14.15	Peak	56.00	100	Horizontal	N/A

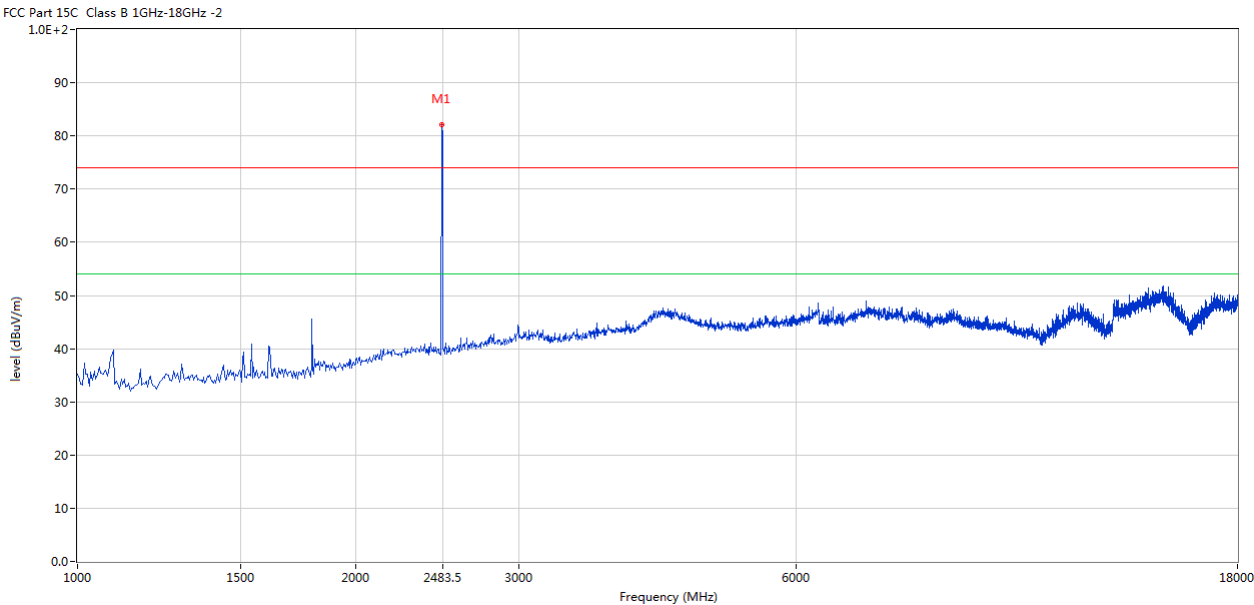
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	82.02	-3.57	74.0	8.02	Peak	67.00	100	Vertical	N/A

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

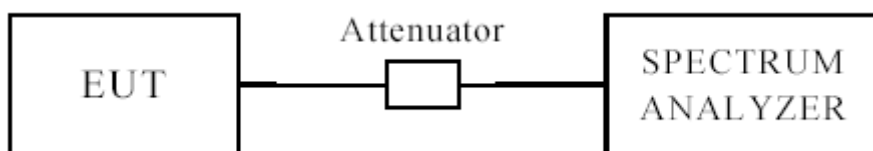
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB BW

Data Rate: 1Mbps

EUT		WitboxPlus		Model		WitboxPlus	
Mode		Keep Transmitting		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		6 dB Bandwidth (kHz)		Minimum Limit (kHz)		Pass/ Fail
Low	2402		715		0.5		Pass
Middle	2440		733		0.5		Pass
High	2480		733		0.5		Pass

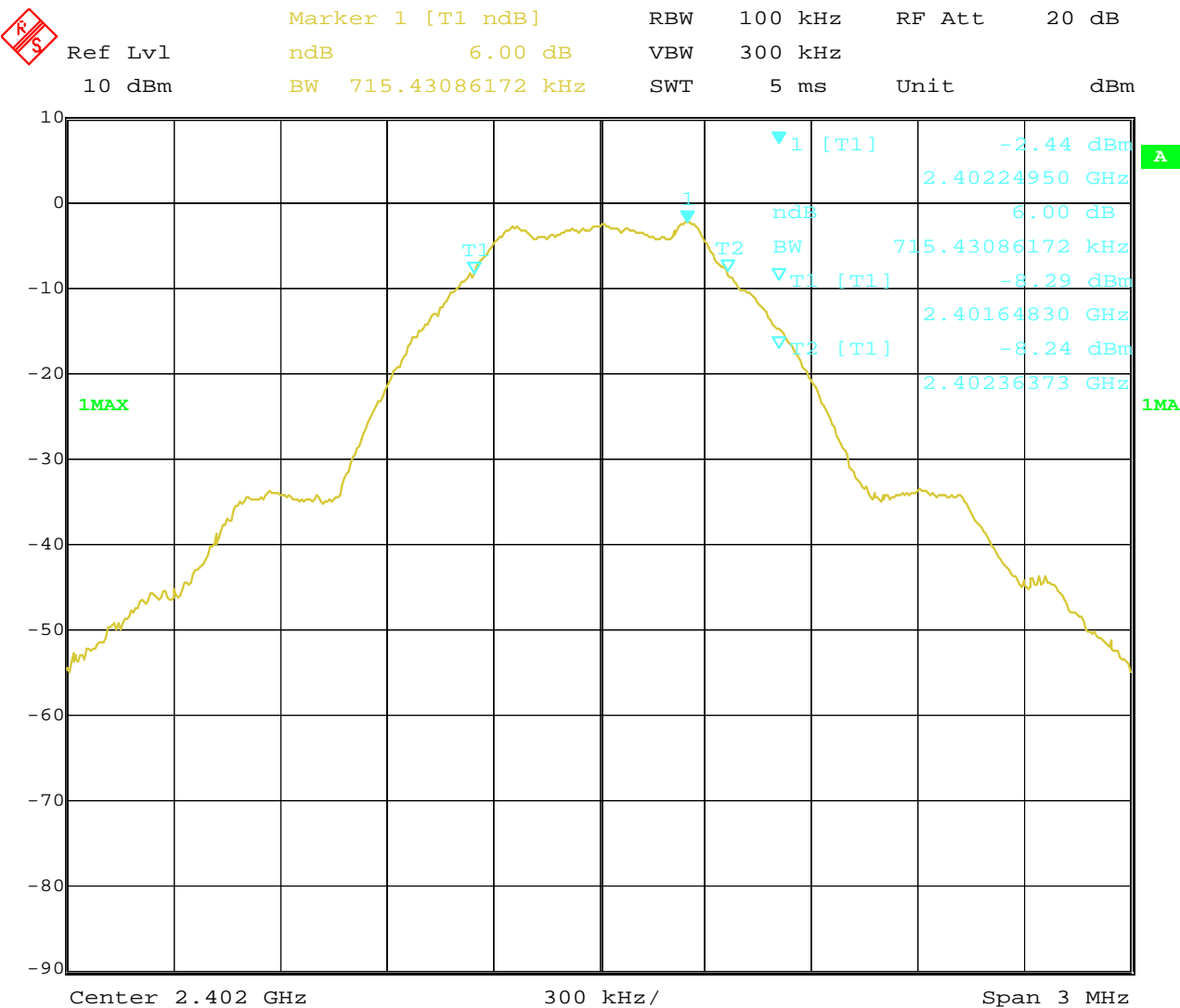
Note: EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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Test Figure:

1. Condition: Low Channel



Date: 14.DEC.2022 17:28:09

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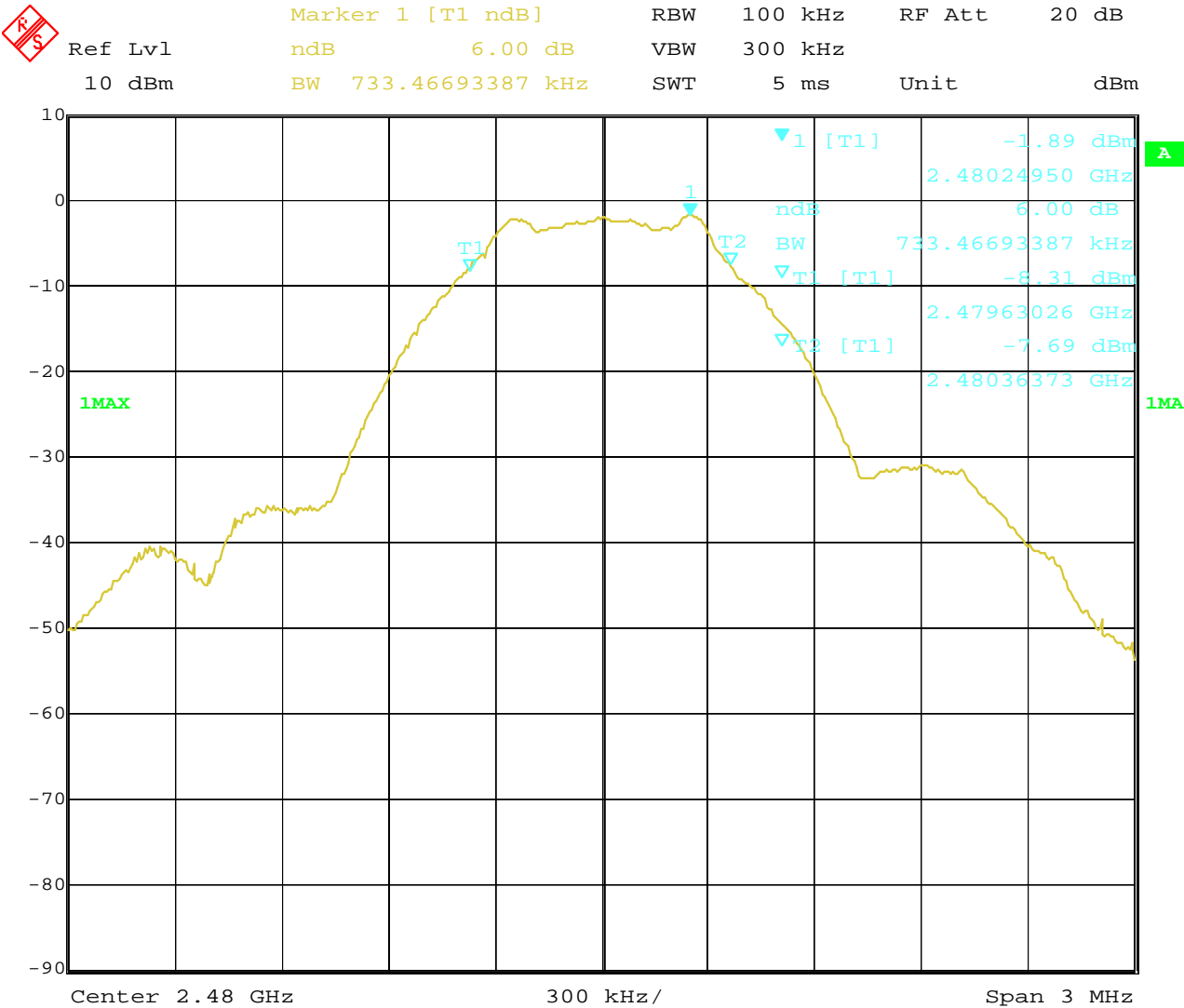


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3. High Channel



Date: 14.DEC.2022 17:30:40

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Data Rate: 2Mbps

EUT	WitboxPlus		Model	WitboxPlus	
Mode	Keep Transmitting		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail	
Low	2402	1202	0.5	Pass	
Middle	2440	1192	0.5	Pass	
High	2480	1263	0.5	Pass	

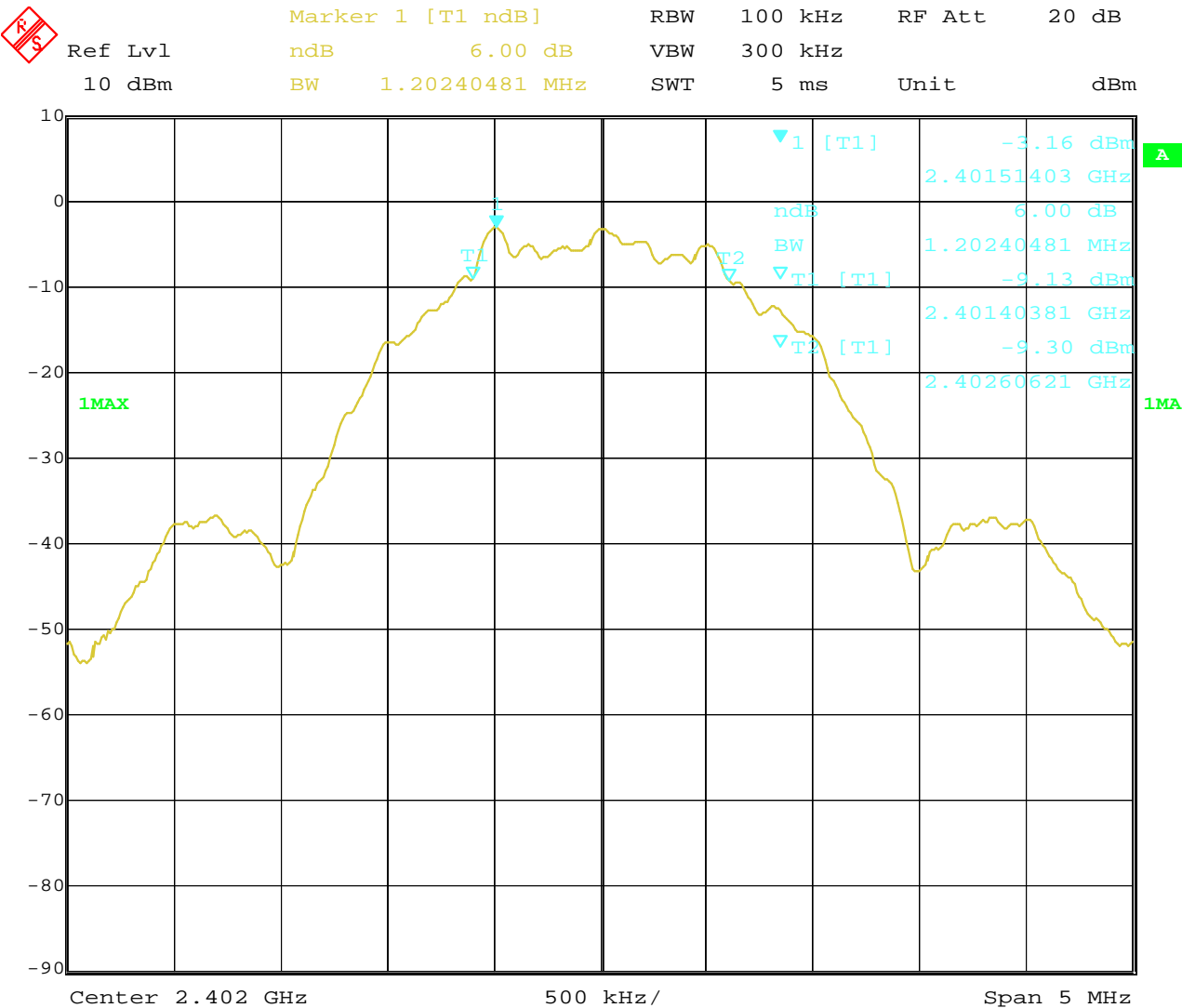
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Test Figure:

1. Condition: Low Channel

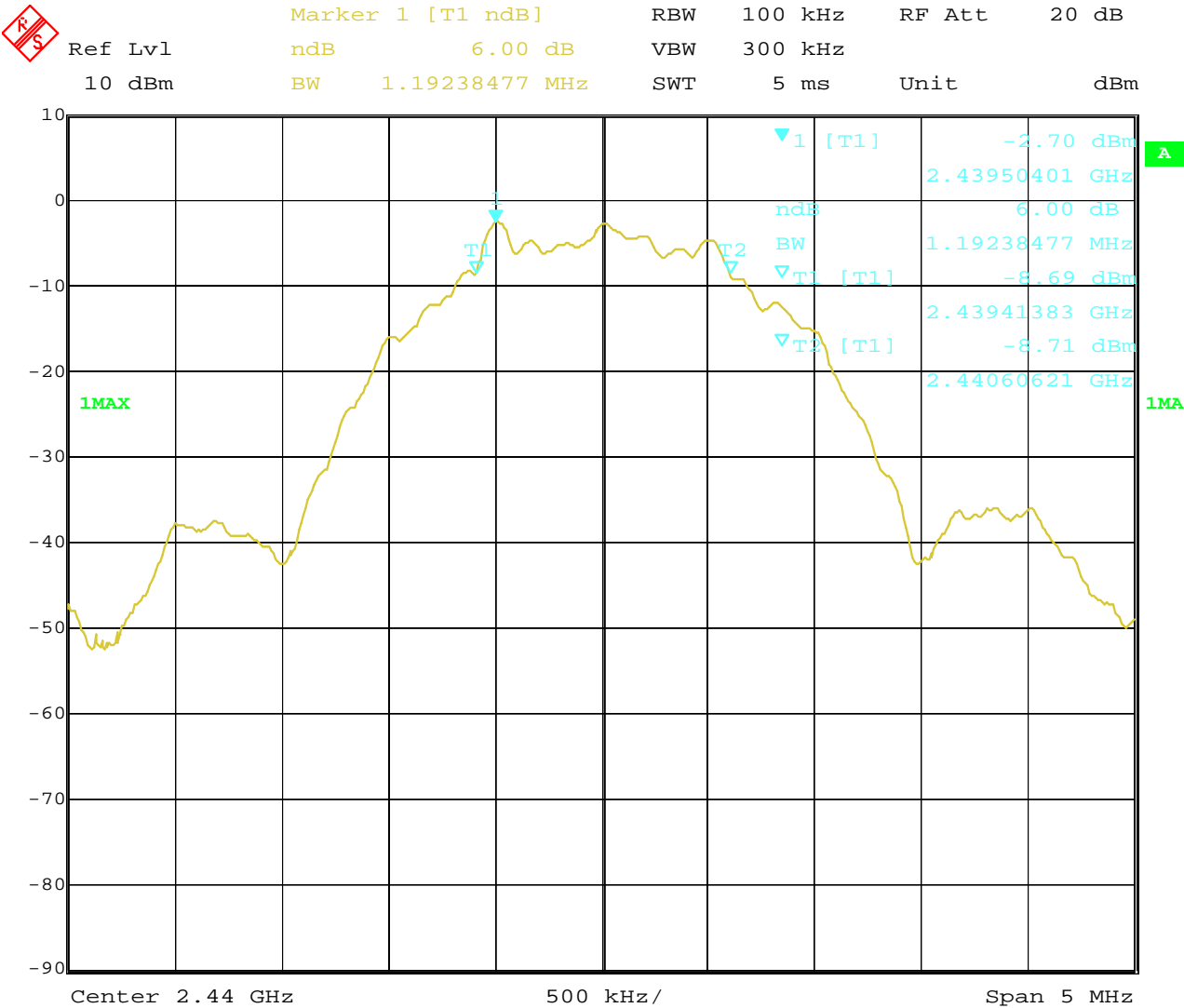


Date: 14.DEC.2022 16:45:56

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2. Condition: Middle Channel

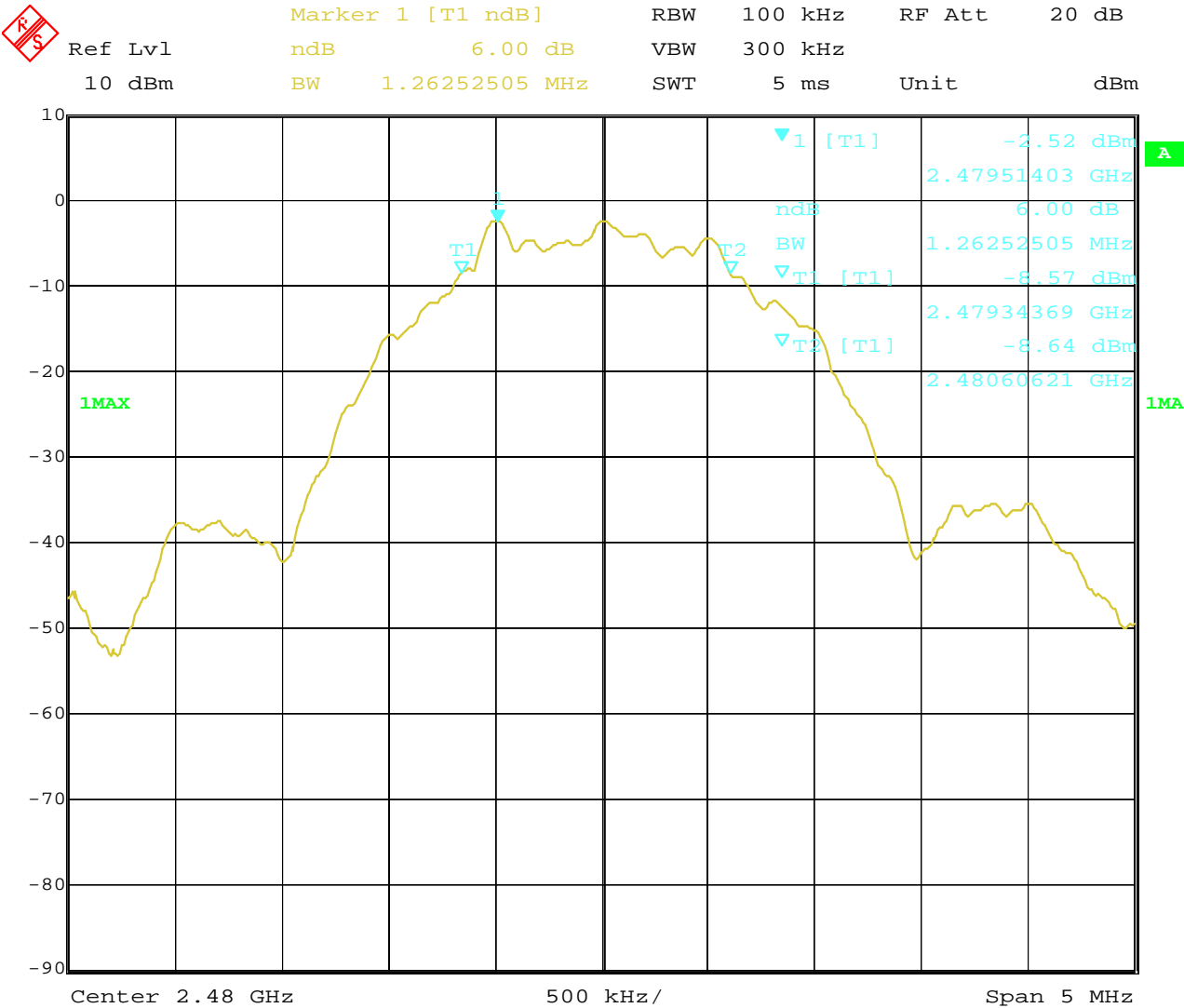


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3. High Channel



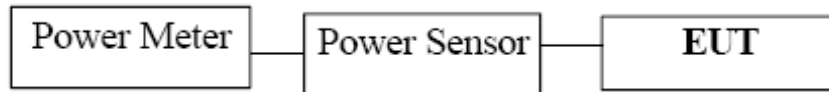
Date: 14.DEC.2022 16:52:13

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4 Test Results

Data Rate: 1Mbps

EUT		WitboxPlus	Model	WitboxPlus	
Mode		Keep Transmitting	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail
		Peak			
Low	2402	-1.86		30	Pass
Middle	2440	-1.43		30	Pass
High	2480	-1.23		30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	4.16	30	Pass
Middle	2440	4.59	30	Pass
High	2480	4.79	30	Pass

Note: Four Bluetooth Modular Transmitting simultaneously

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Data Rate: 2Mbps

EUT	WitboxPlus	Model	WitboxPlus	
Mode	Keep Transmitting	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	-1.93	30	Pass
Middle	2440	-1.56	30	Pass
High	2480	-1.32	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	4.09	30	Pass
Middle	2440	4.46	30	Pass
High	2480	4.70	30	Pass

Note: Four Bluetooth Modular Transmitting simultaneously

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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.

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9.4 Test Result

Data Rate: 1Mbps

EUT	WitboxPlus		Model	WitboxPlus	
Mode	Keep Transmitting		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-11.69	0.2	-11.49	8	Pass
Middle	-11.34	0.2	-11.14	8	Pass
High	-11.04	0.2	-10.84	8	Pass

Note: 1. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

2. EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

Channel	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-5.47	8	Pass
Middle	-5.12	8	Pass
High	-4.82	8	Pass

Note: Four Bluetooth Modular Transmitting simultaneously

The report refers only to the sample tested and does not apply to the bulk.

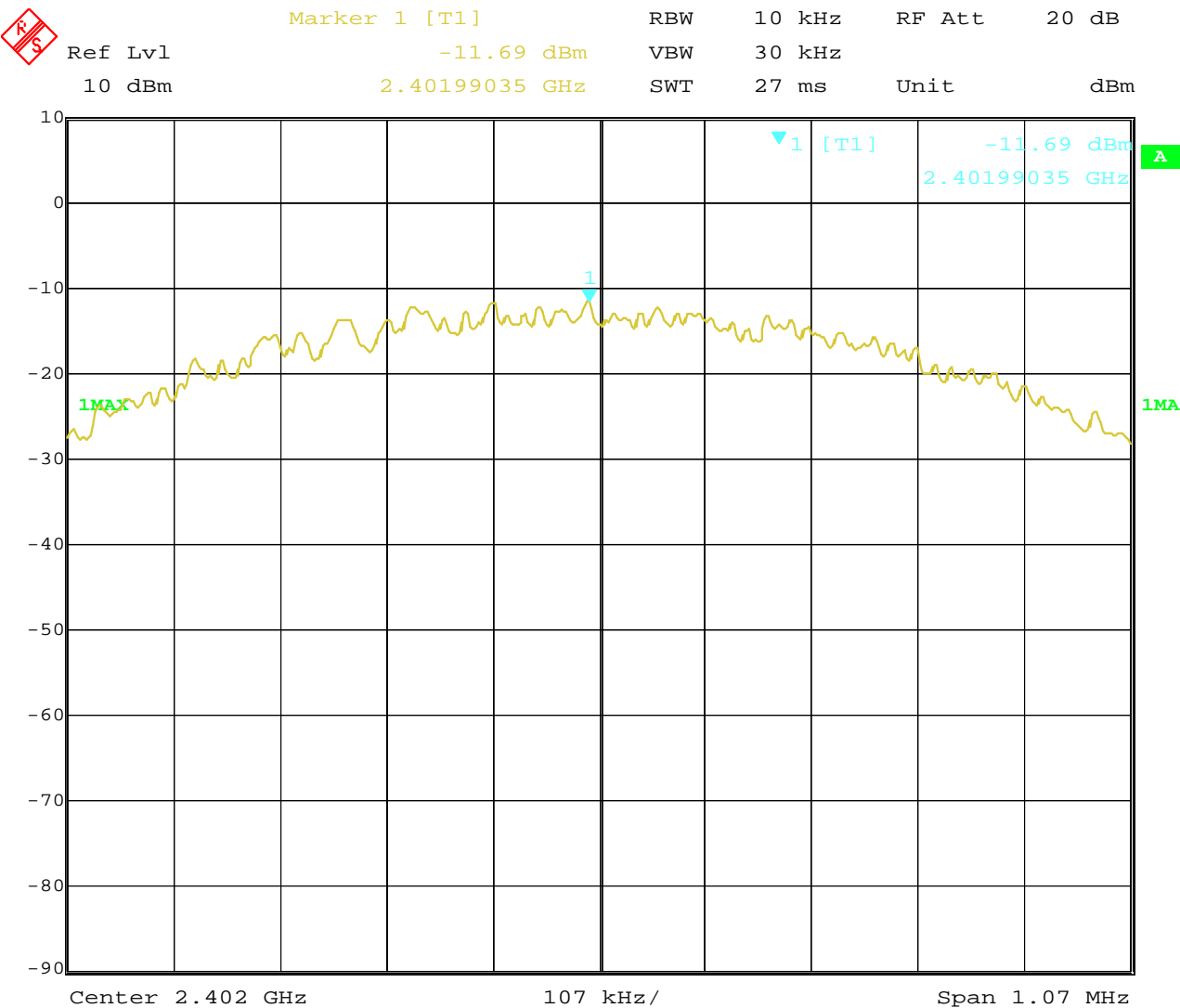
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Test Figure:

1. Condition: Low Channel

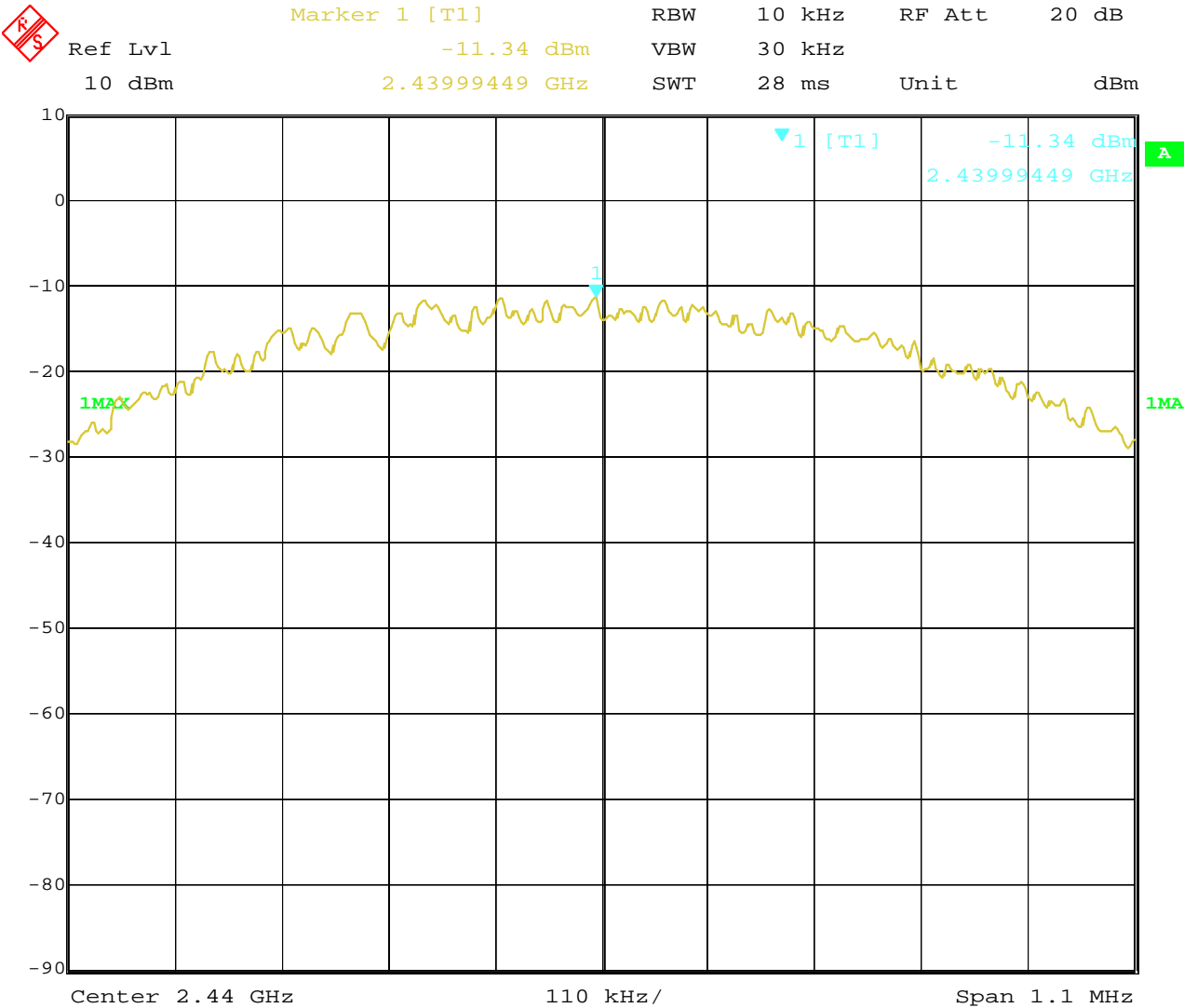


Date: 14.DEC.2022 17:38:56

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2. Condition: Middle Channel

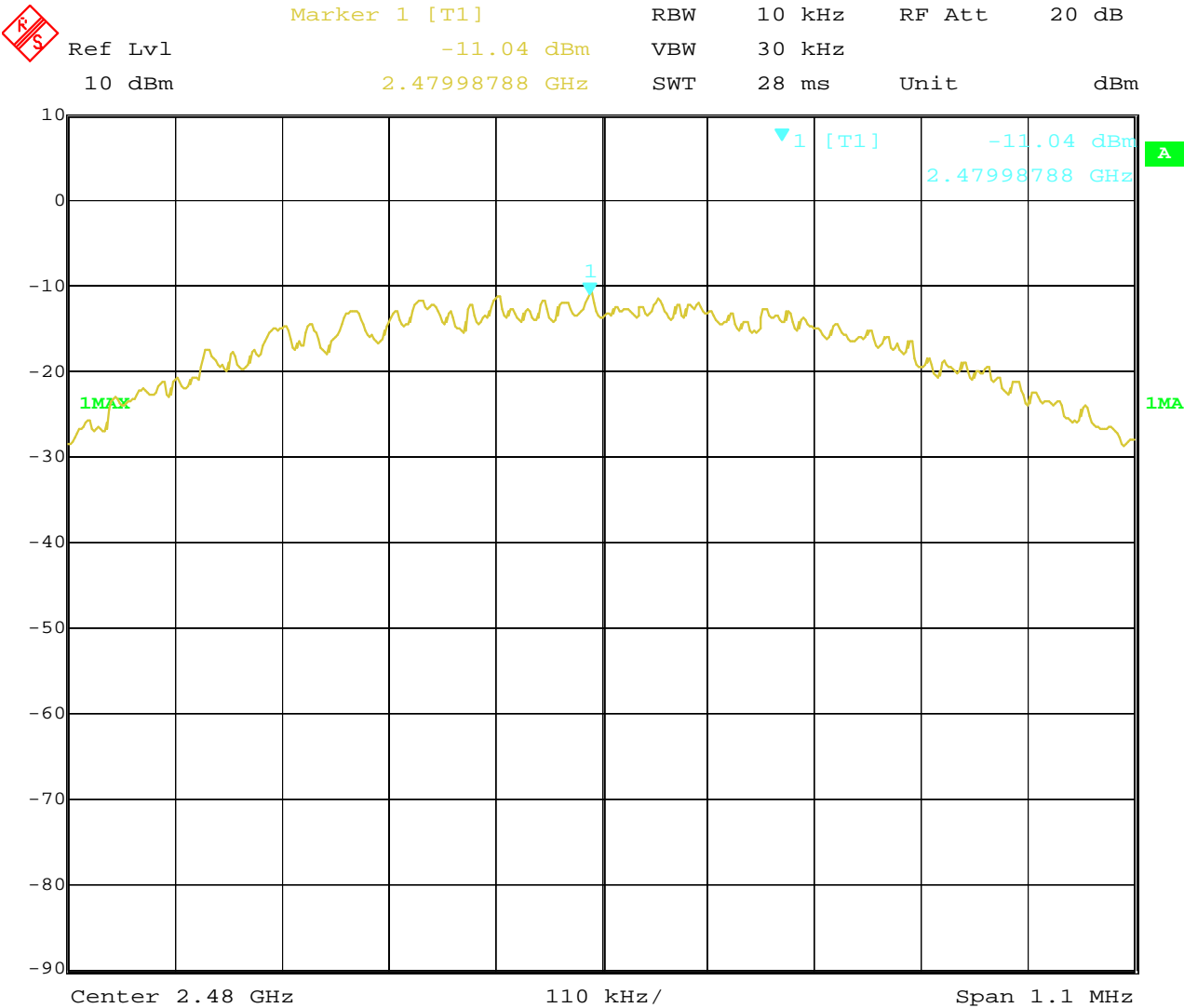


Date: 14.DEC.2022 17:38:06

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3. High Channel



Date: 14.DEC.2022 17:37:23

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Data Rate: 2Mbps

EUT	WitboxPlus		Model	WitboxPlus	
Mode	Keep Transmitting		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-15.00	0.2	-14.80	8	Pass
Middle	-14.52	0.2	-14.32	8	Pass
High	-14.48	0.2	-14.28	8	Pass

Note: 1. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

2. EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

Channel	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-8.78	8	Pass
Middle	-8.30	8	Pass
High	-8.26	8	Pass

Note: Four Bluetooth Modular Transmitting simultaneously

The report refers only to the sample tested and does not apply to the bulk.

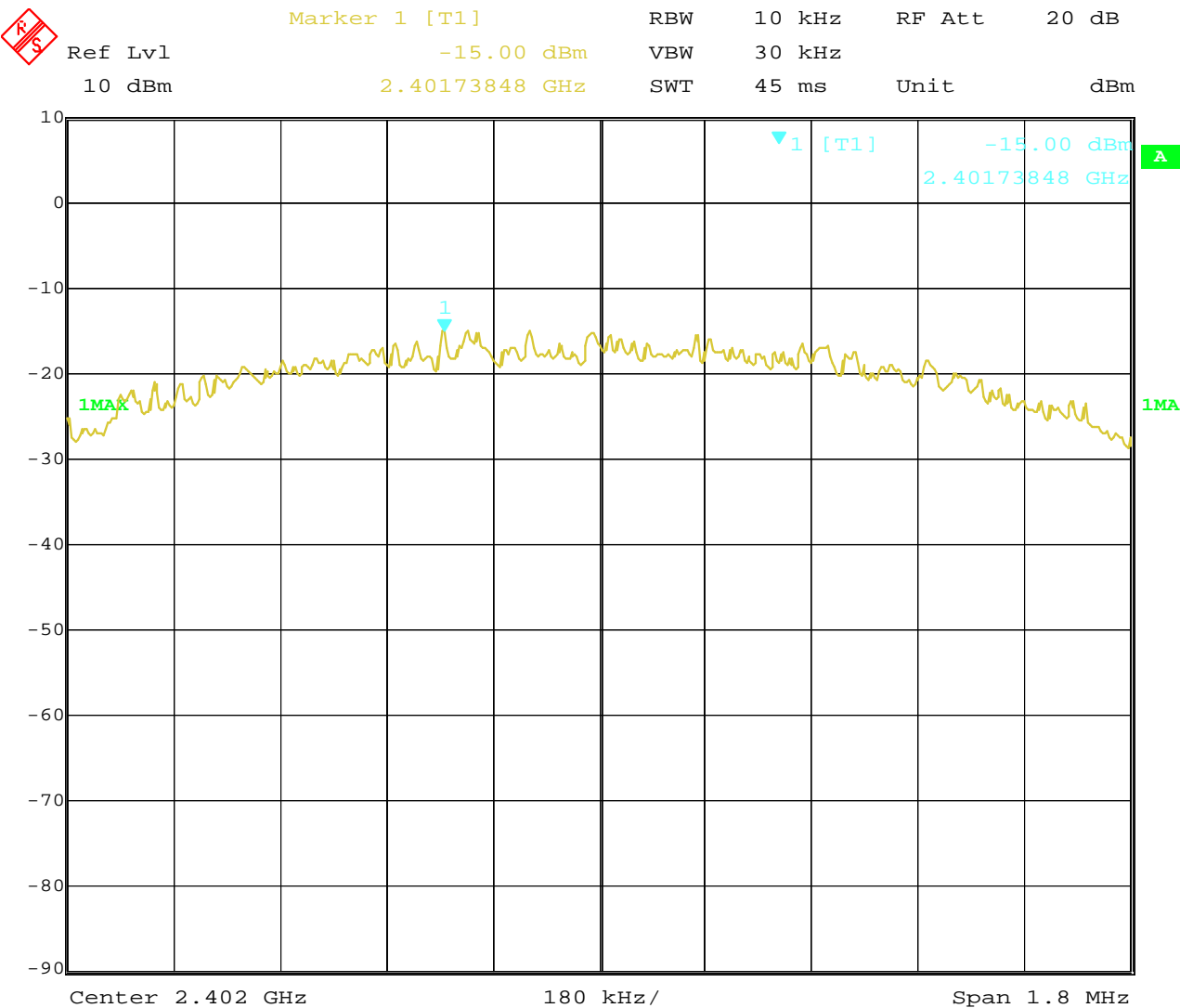
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Test Figure:

1. Condition: Low Channel

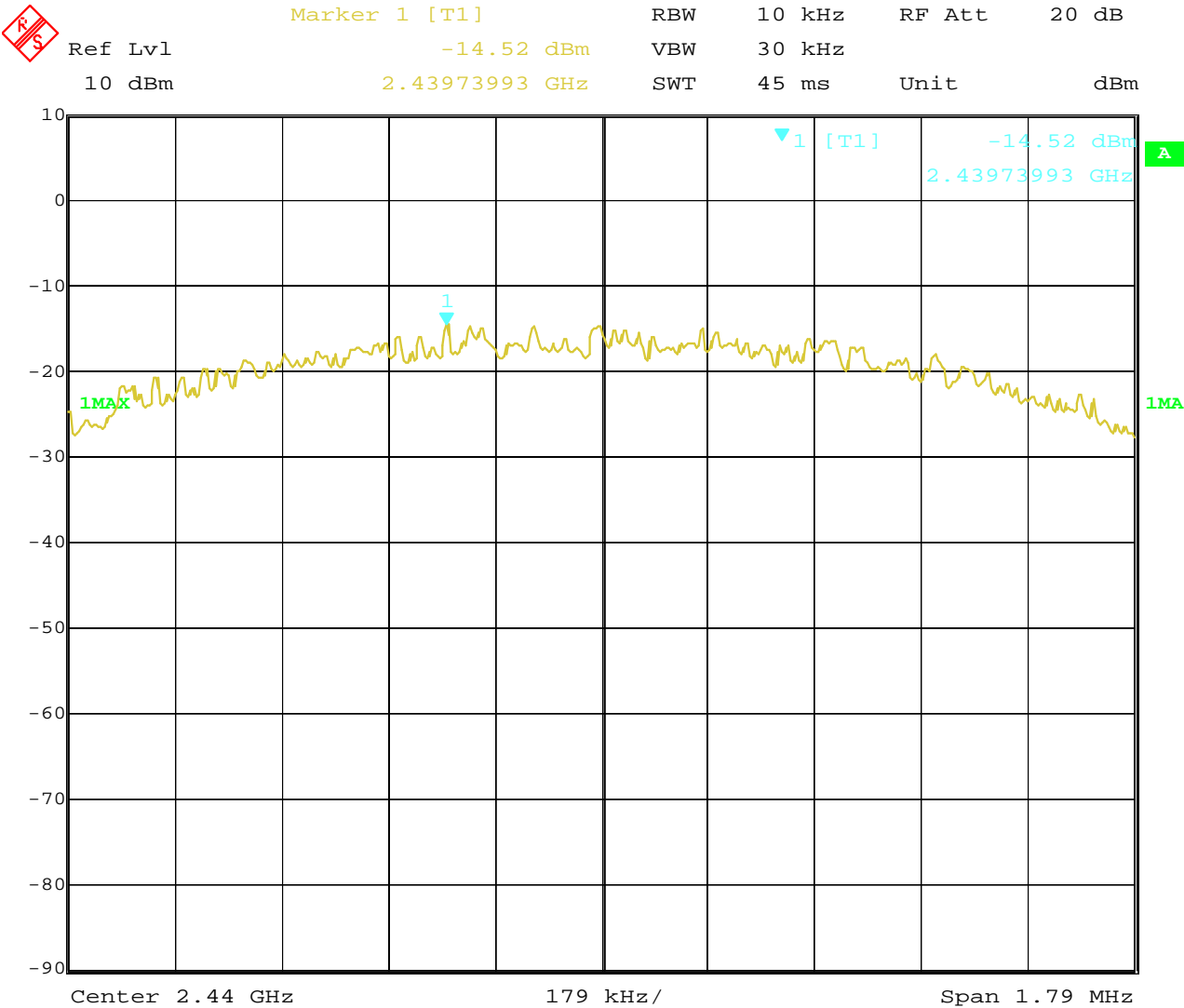


Date: 14.DEC.2022 17:08:35

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2. Condition: Middle Channel

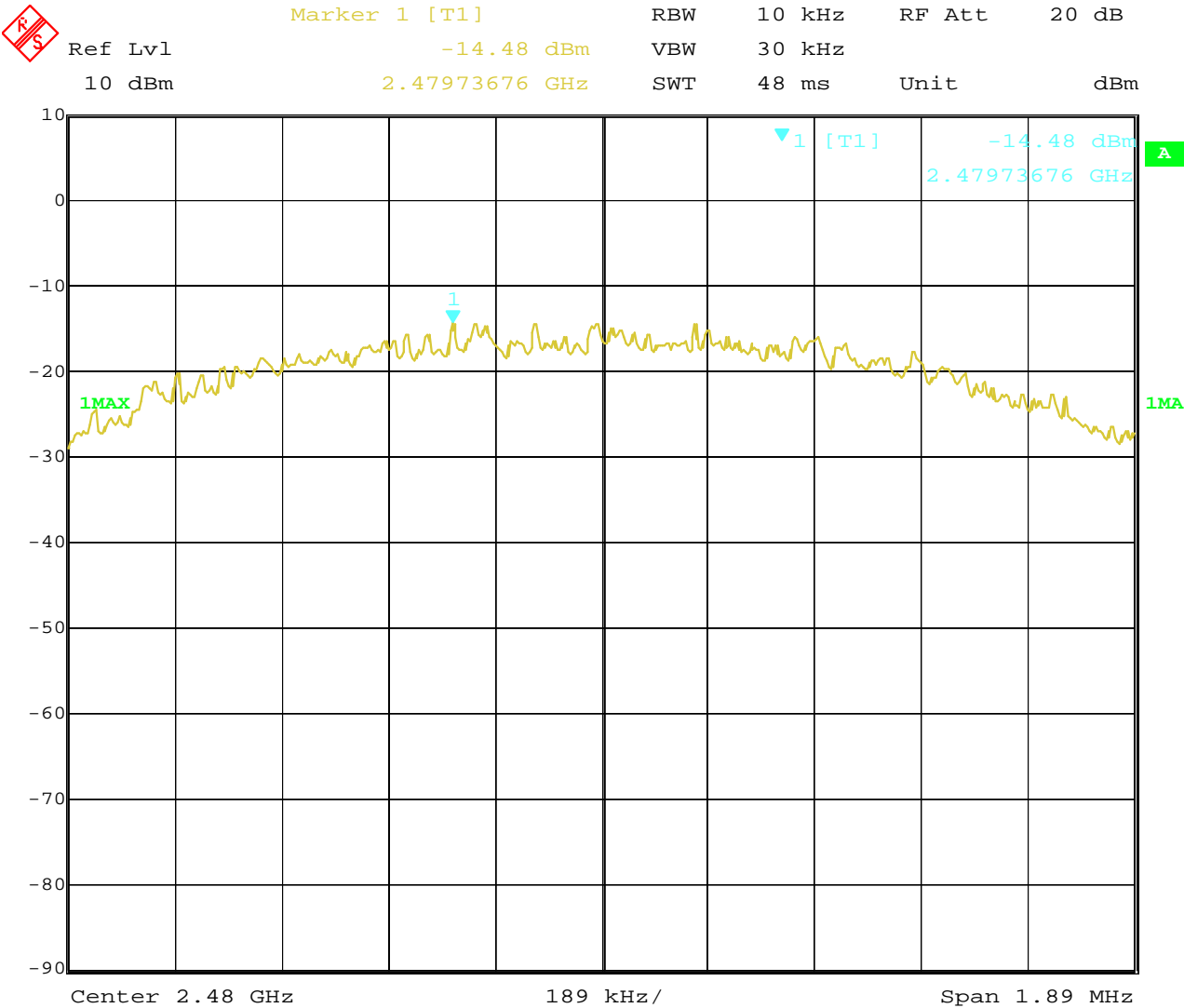


Date: 14.DEC.2022 17:08:16

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3. High Channel



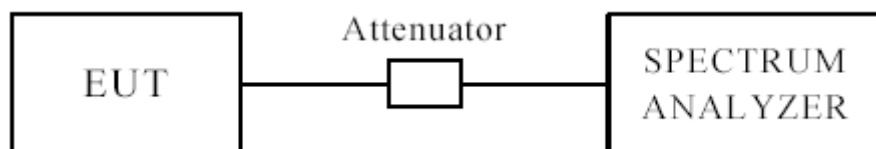
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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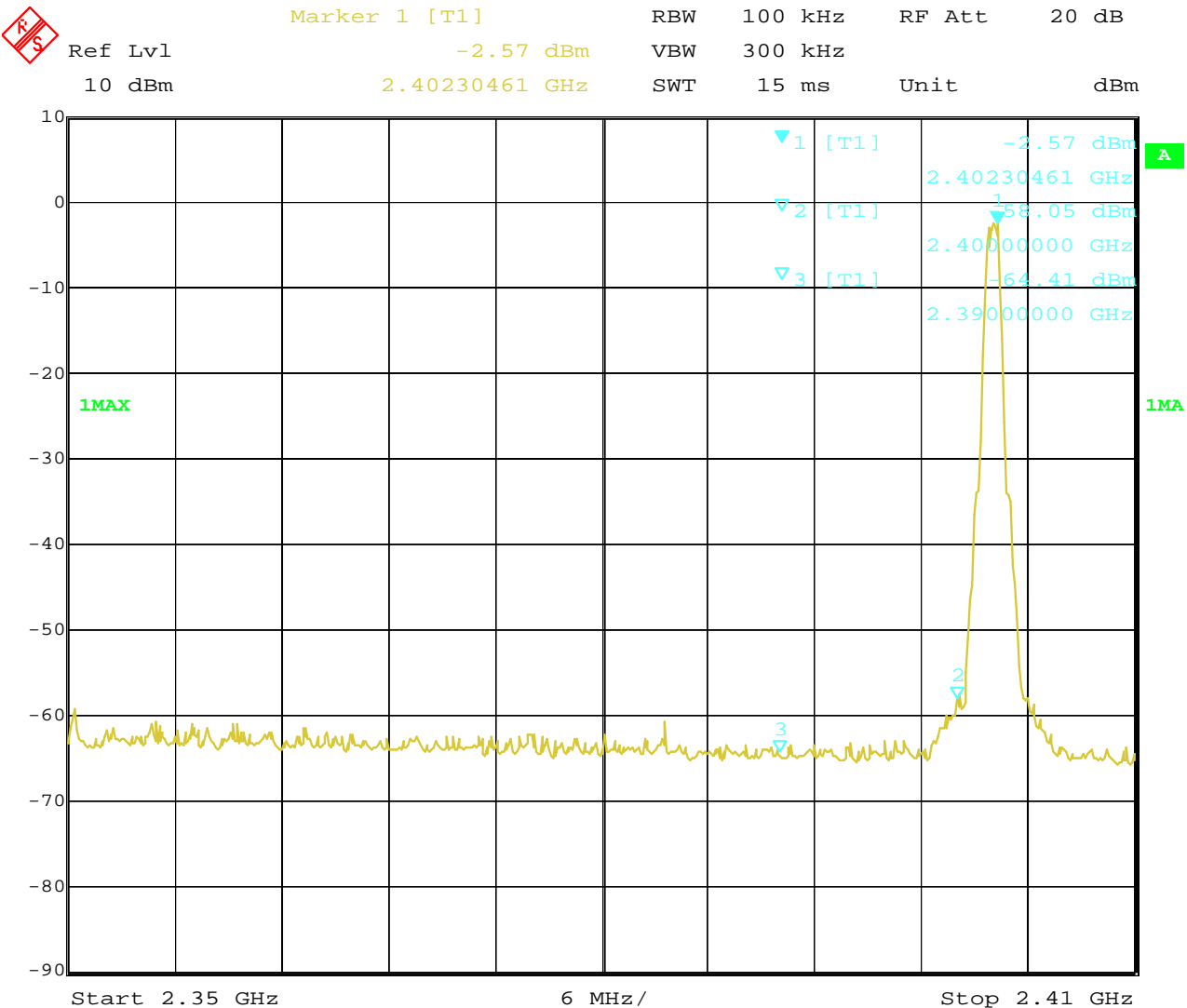


Data Rate: 1Mbps

10.4 Band-edge Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 14.DEC.2022 17:27:46

Note: EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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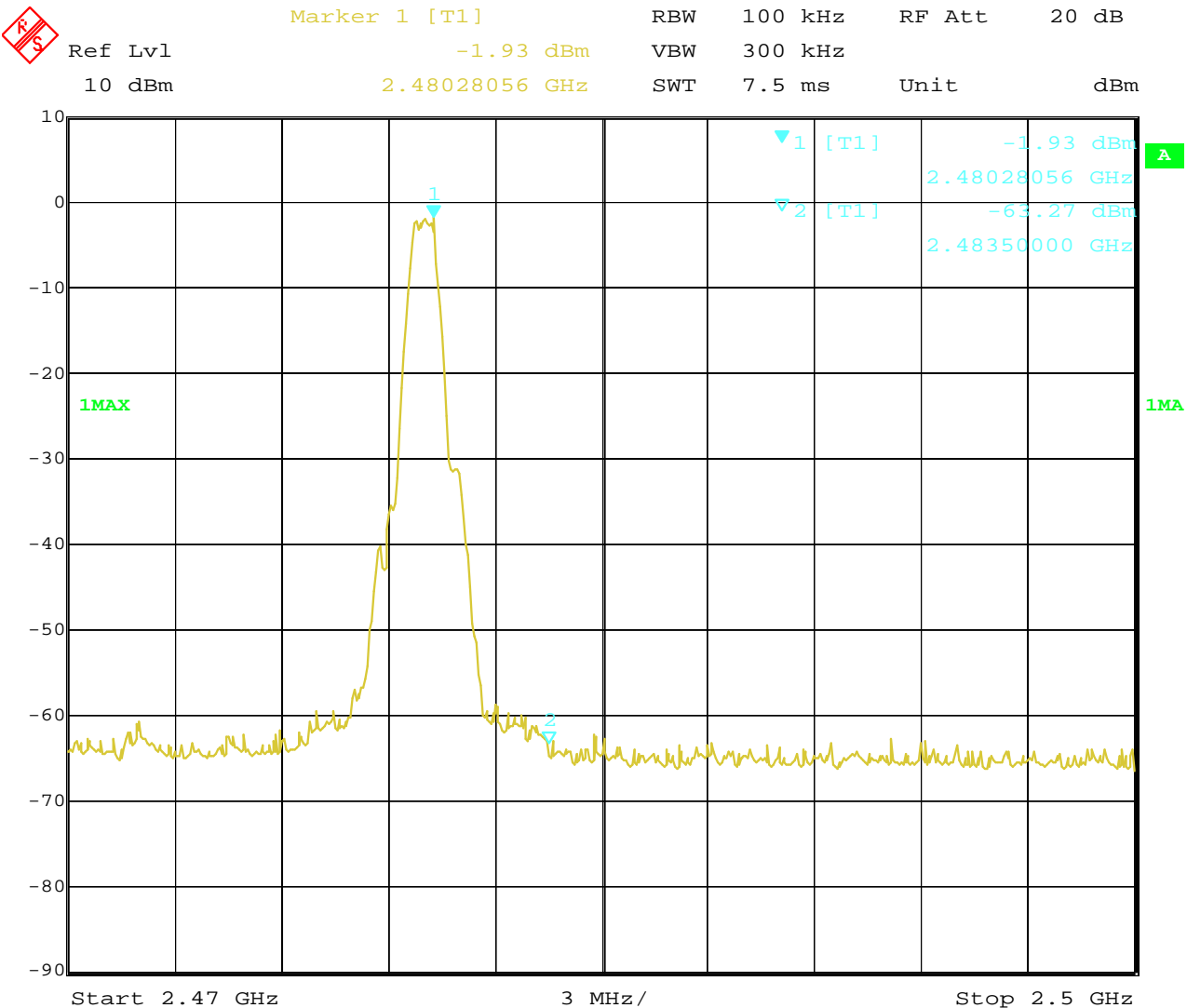


Data Rate: 1Mbps

10.4 Band-edge Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 14.DEC.2022 17:26:23

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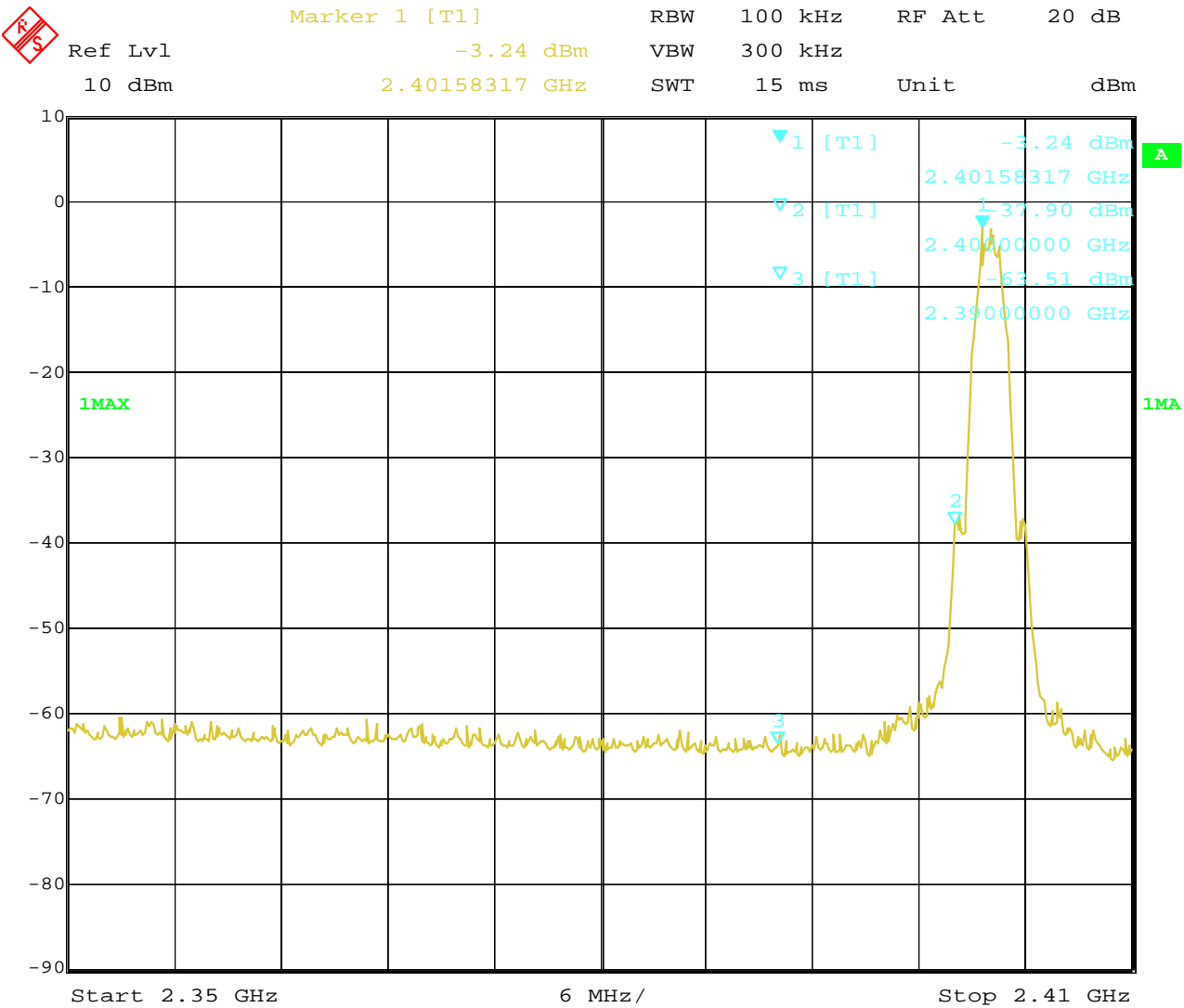


Data Rate: 2Mbps

10.4 Band-edge Measurement Mode: 2M

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 14.DEC.2022 17:09:08

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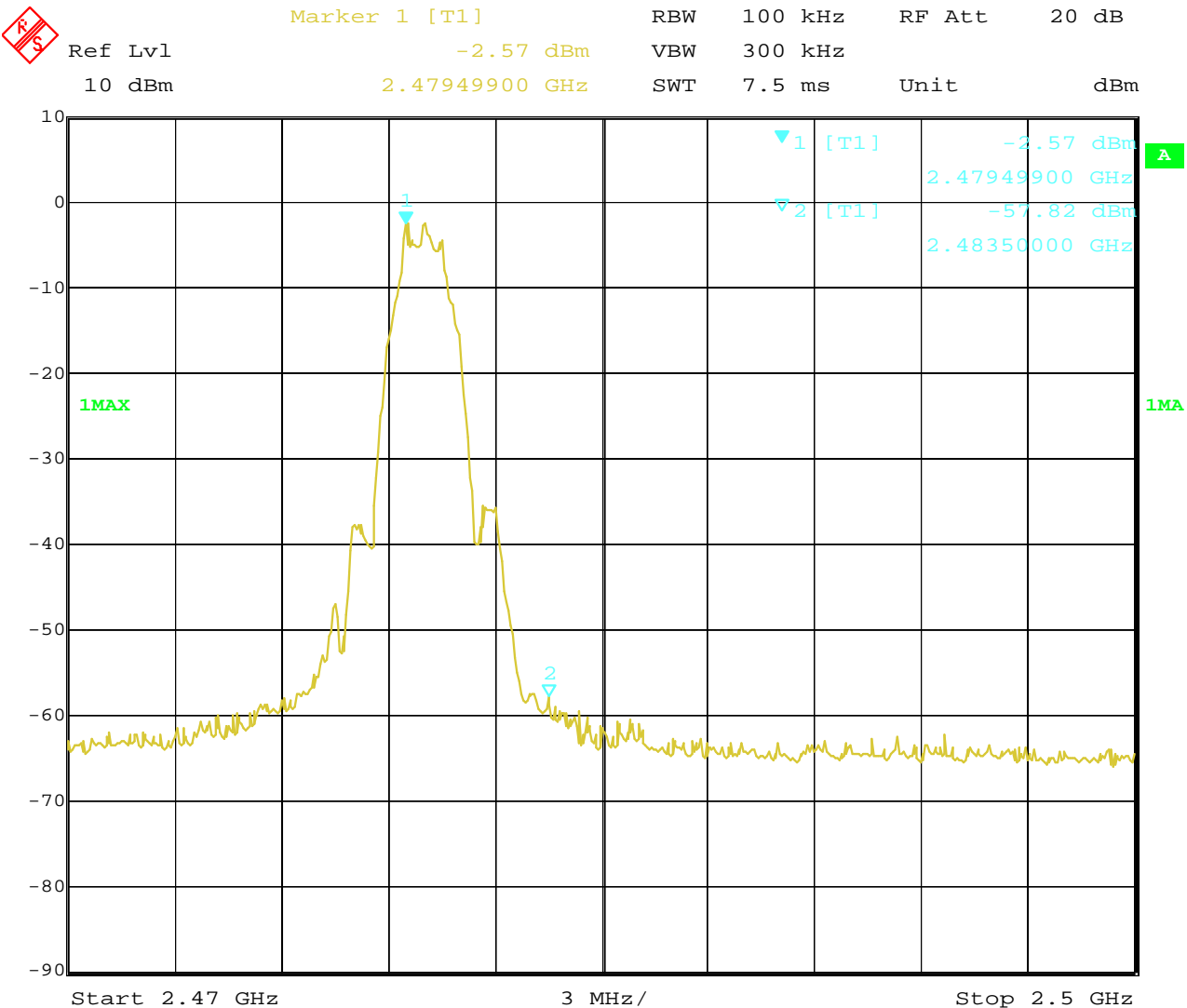


Data Rate: 2Mbps

10.4 Band-edge Measurement Mode: 2M

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 14.DEC.2022 17:11:21

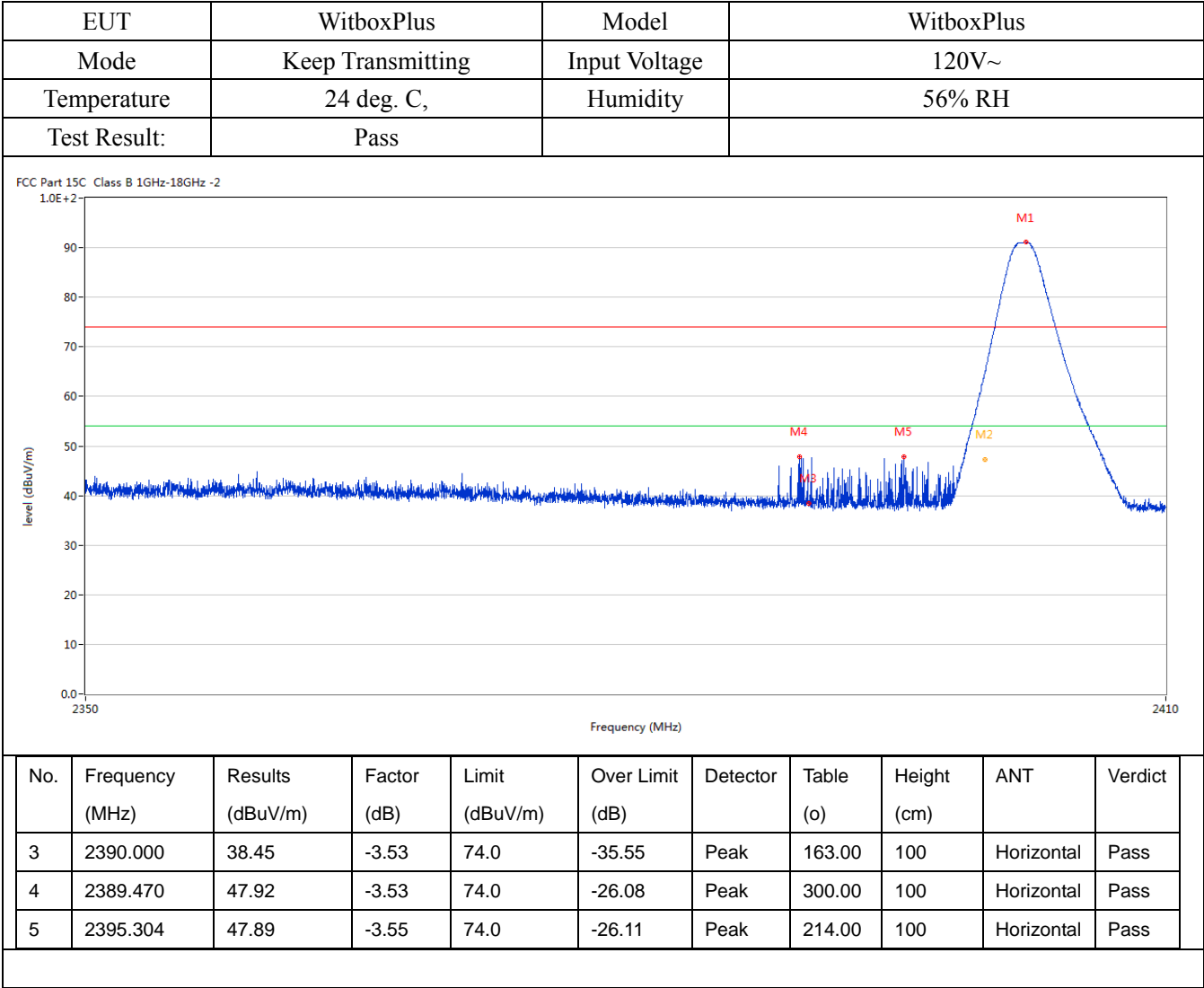
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Data Rate: 1Mbps

10.4 Restrict Band Measurement



Note: 1. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.000	37.30	-3.53	74.0	-36.70	Peak	242.00	100	Vertical	Pass
4	2389.155	50.06	-3.53	74.0	-23.94	Peak	0.00	100	Vertical	Pass
5	2391.600	48.79	-3.54	74.0	-25.21	Peak	360.00	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	54.07	-3.57	74.0	-19.93	Peak	204.00	100	Horizontal	Pass
2**	2483.500	39.84	-3.57	54.0	-14.16	AV	204.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	47.67	-3.57	74.0	-26.33	Peak	58.14	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

The report refers only to the sample tested and does not apply to the bulk.

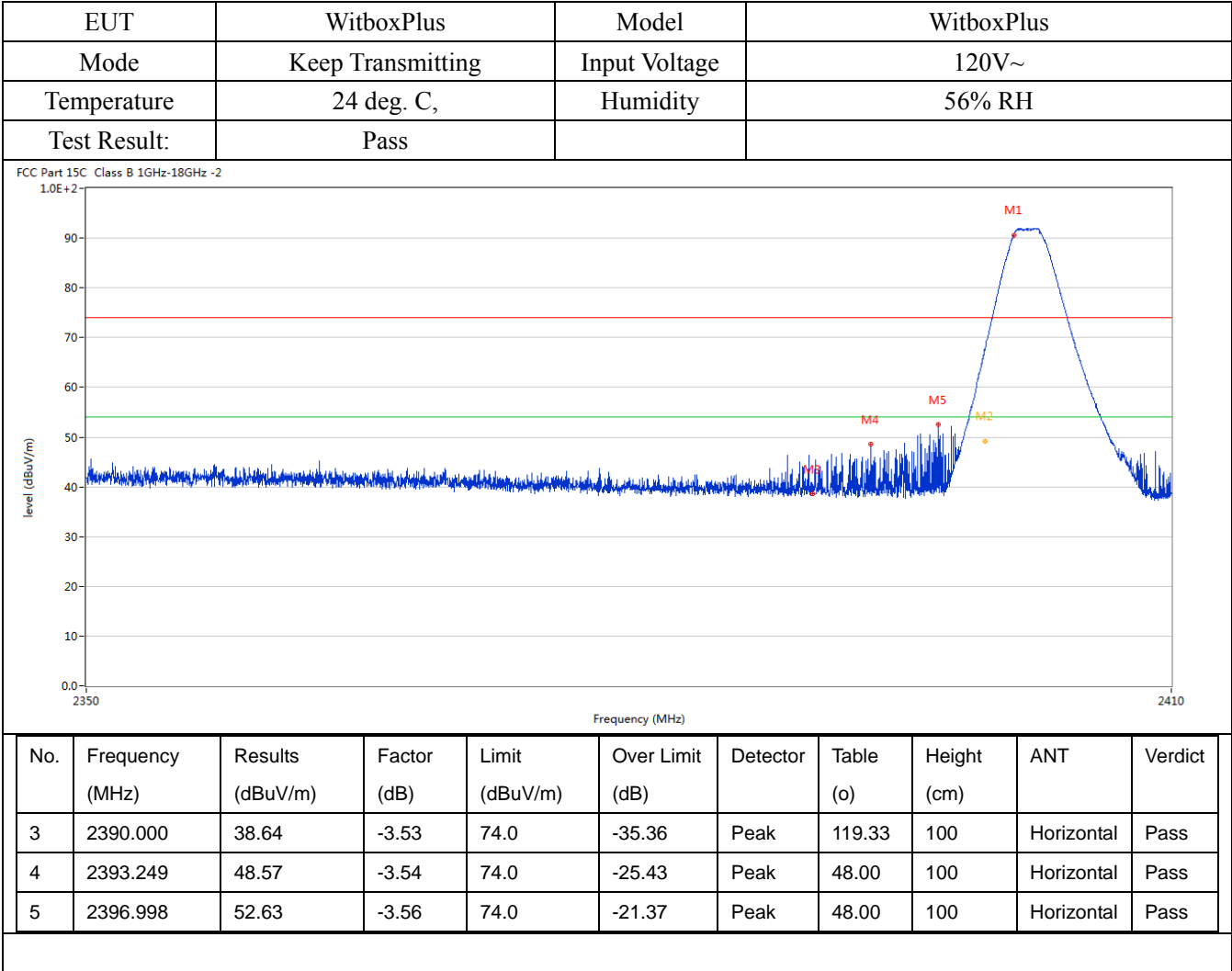
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



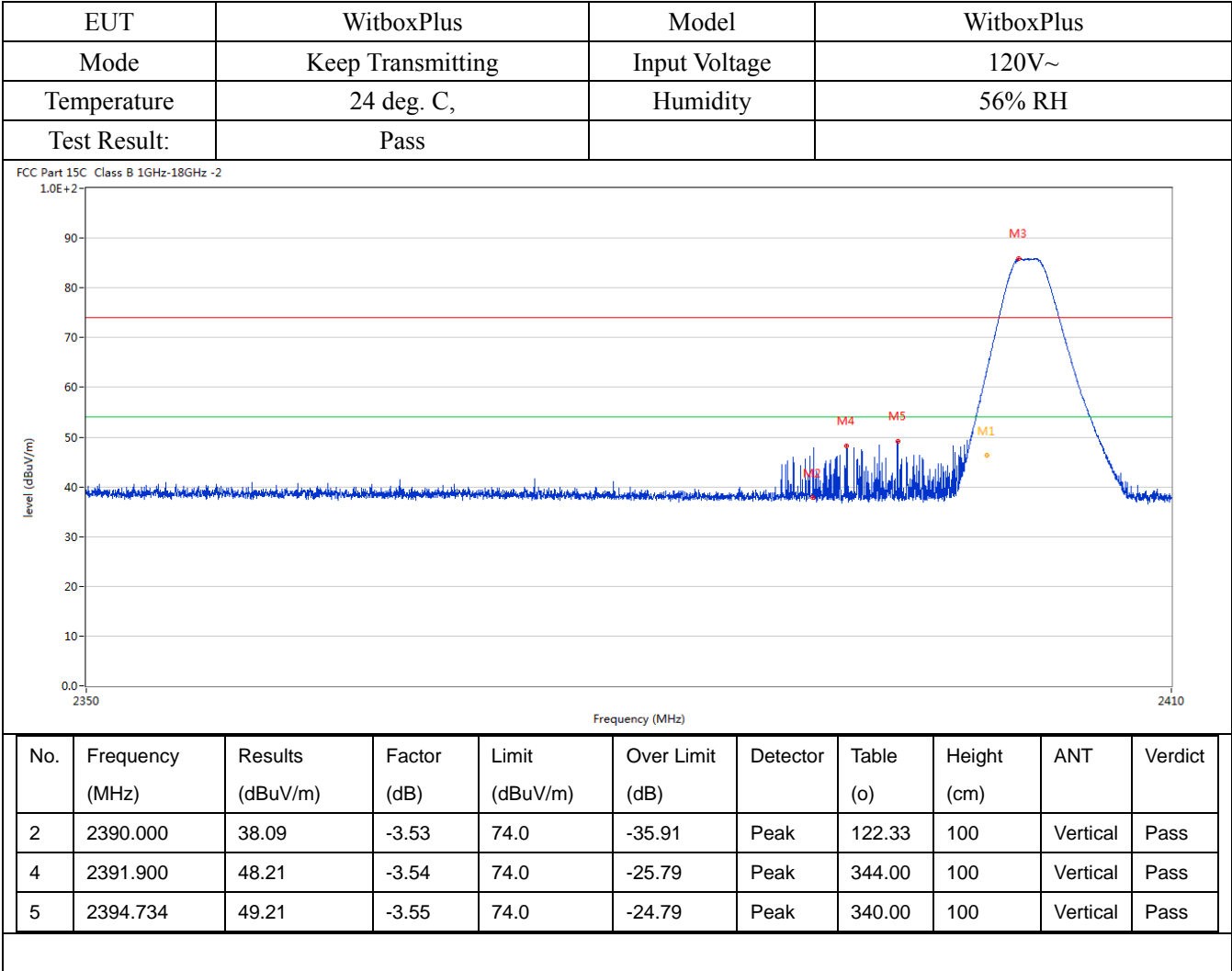
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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Data Rate: 2Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2
1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	56.06	-3.57	74.0	-17.94	Peak	54.00	100	Horizontal	Pass
2**	2483.500	41.01	-3.57	54.0	-12.99	AV	54.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

The report refers only to the sample tested and does not apply to the bulk.

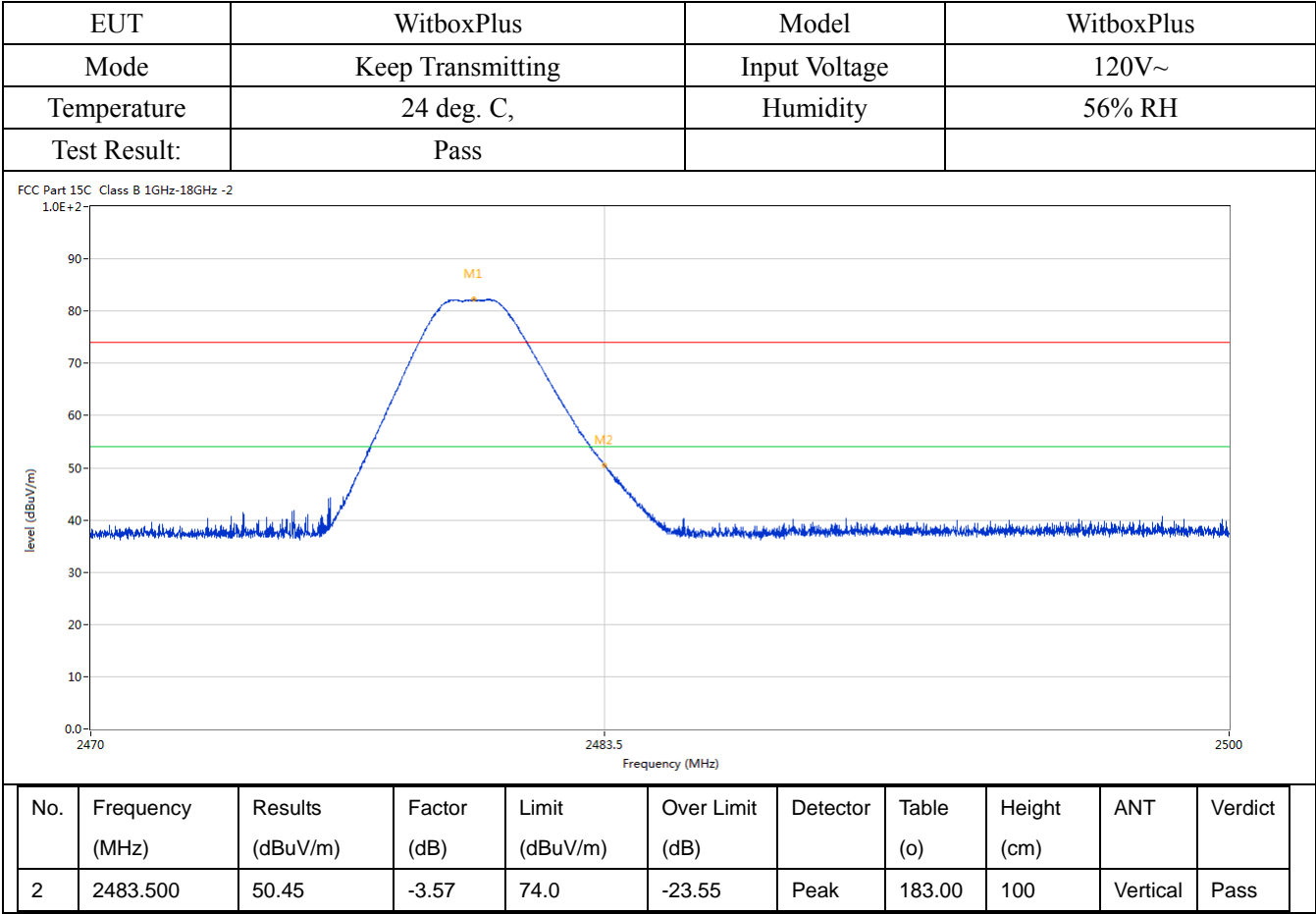
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.
2.EUT has four Bluetooth Modulators that are the entirely same. Each Bluetooth modular was tested and only the worst case was recorded in the test report.

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Four Bluetooth Modular Transmitting simultaneously

Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.000	39.76	-3.53	74.0	-34.24	Peak	114.67	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.000	38.00	-3.53	74.0	-36.00	Peak	181.67	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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Data Rate: 1Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	54.30	-3.57	74.0	-19.70	Peak	198.00	100	Horizontal	Pass
2**	2483.500	40.28	-3.57	54.0	-13.72	AV	198.00	100	Horizontal	Pass

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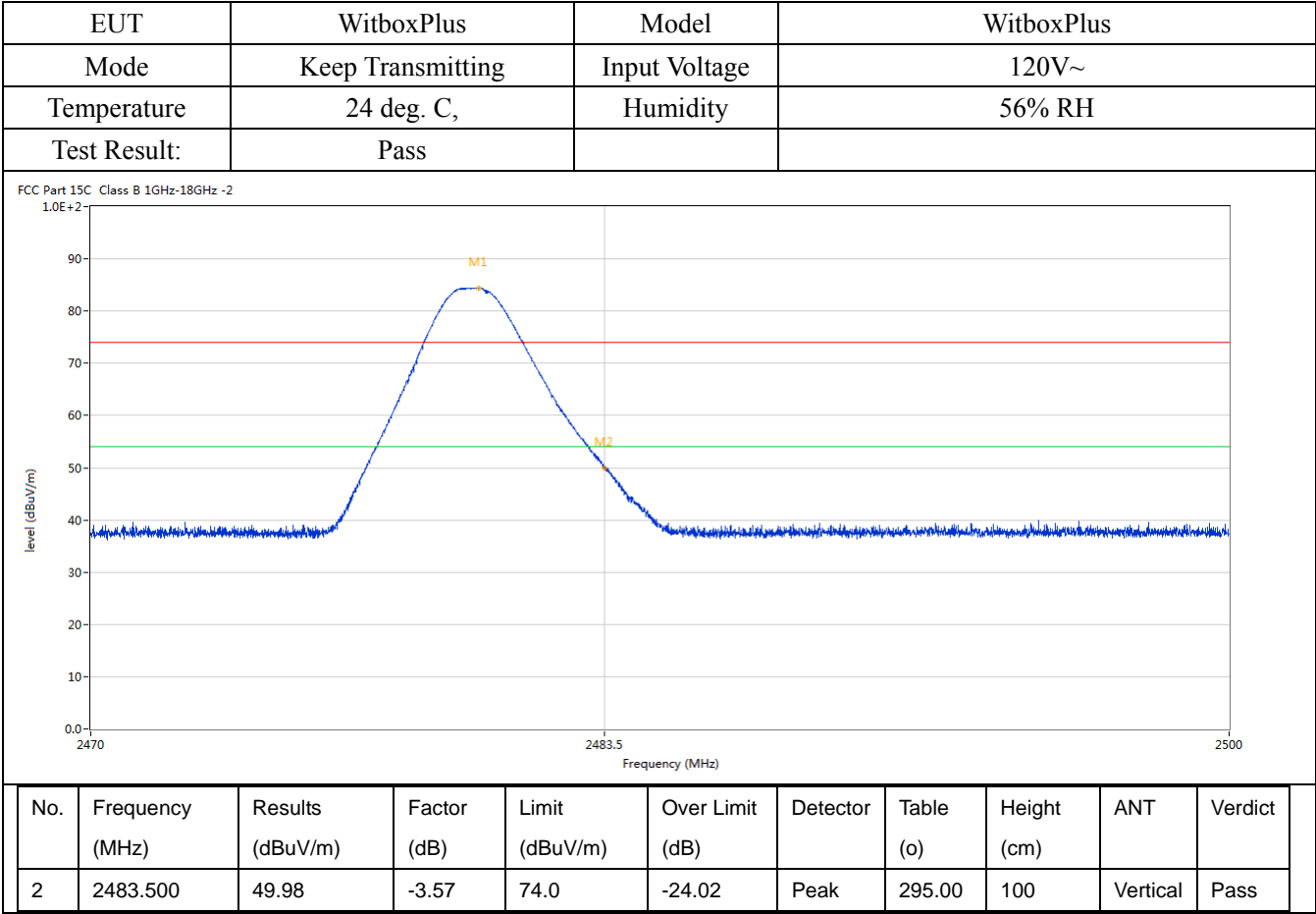
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Data Rate: 1Mbps

10.4 Restrict Band Measurement



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Data Rate: 2Mbps

10.4 Restrict Band Measurement

EUT	WitboxPlus	Model	WitboxPlus
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.000	39.64	-3.53	74.0	-34.36	Peak	51.33	100	Horizontal	Pass
4	2389.740	47.78	-3.53	74.0	-26.22	Peak	278.00	100	Horizontal	Pass
5	2396.278	49.97	-3.55	74.0	-24.03	Peak	42.00	100	Horizontal	Pass

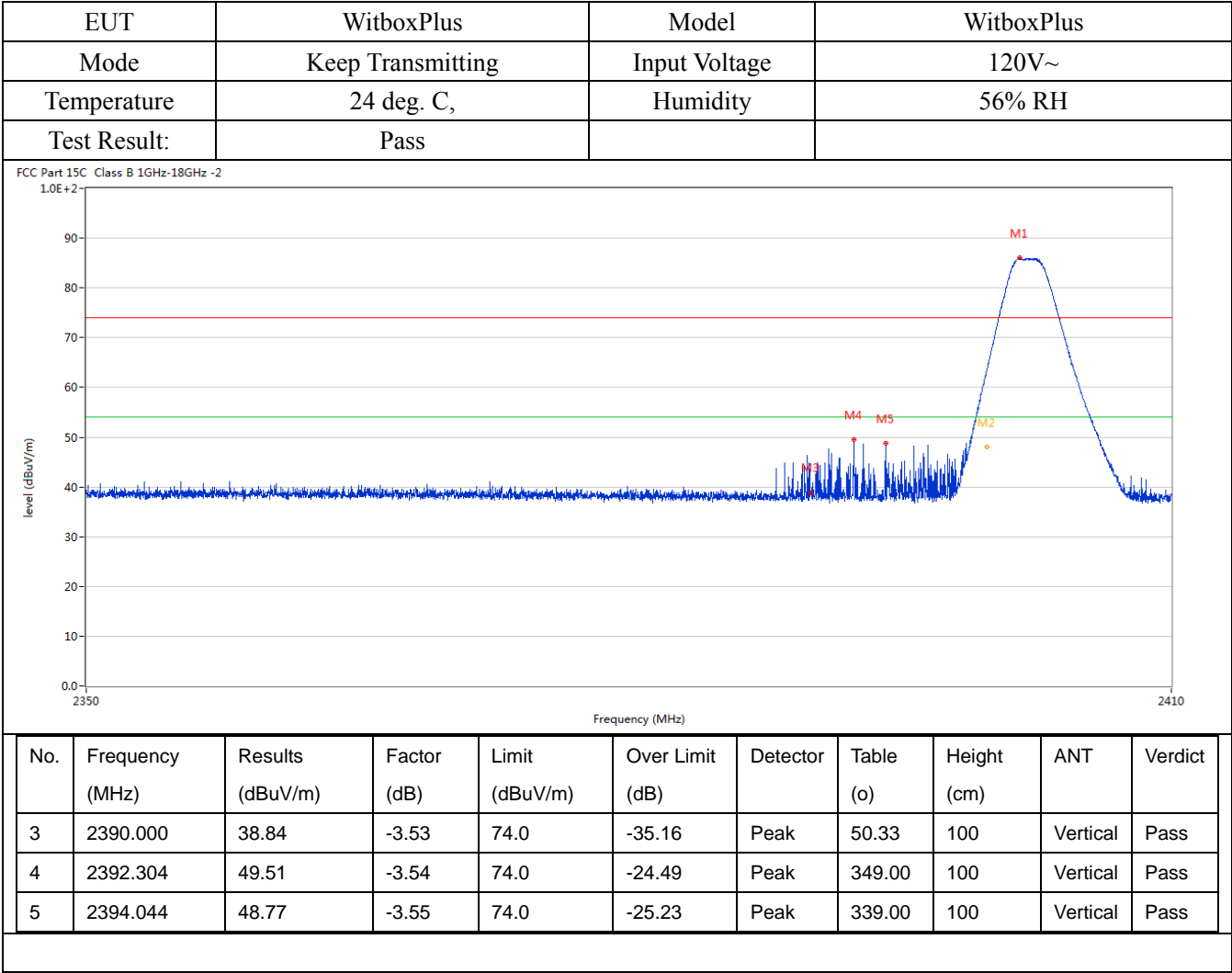
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



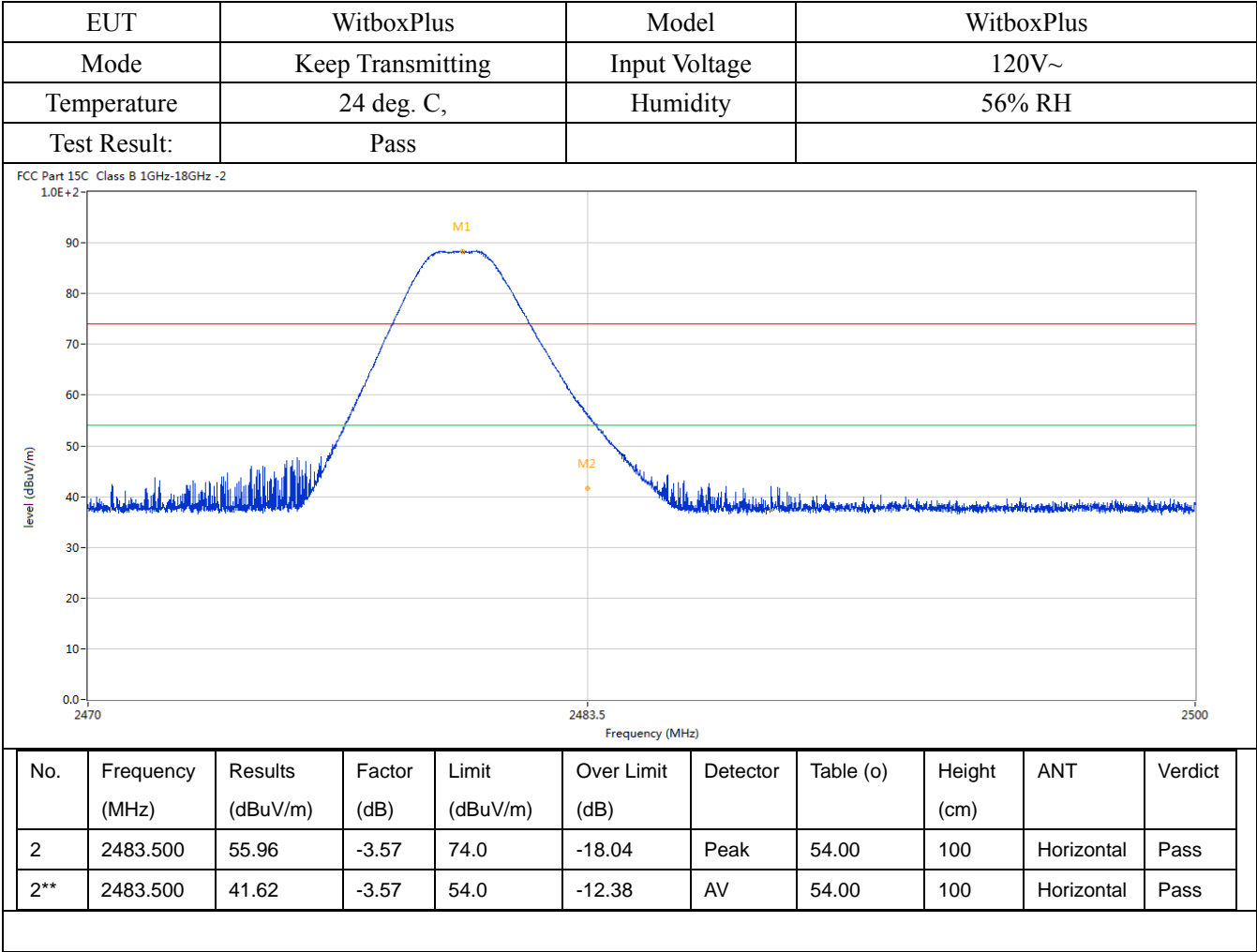
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



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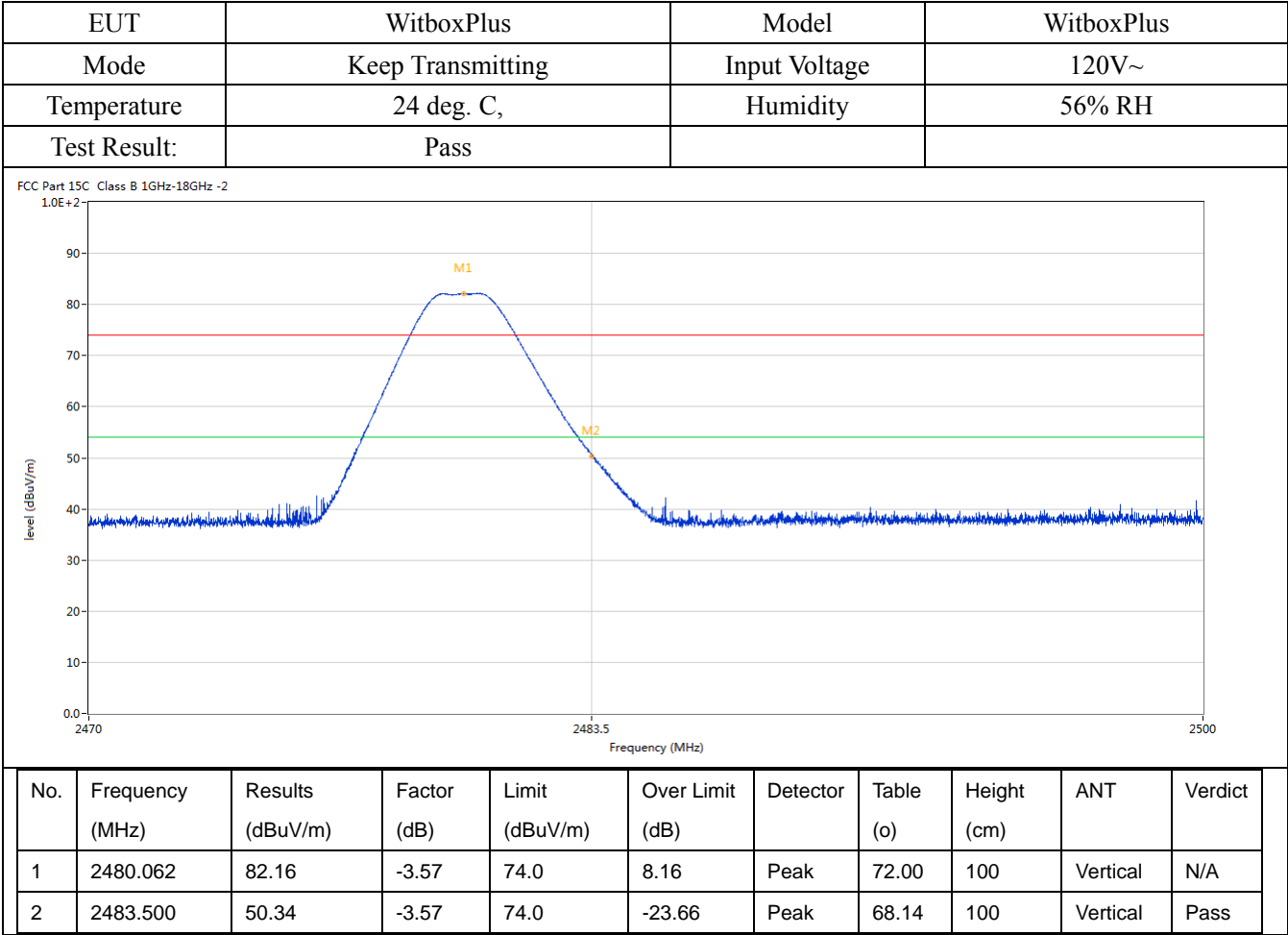
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Data Rate: 2Mbps

10.4 Restrict Band Measurement



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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antenna is 1.85dBi (Get from the antenna test report)

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12.0 FCC ID Label

FCC ID: 2A9UN-WITBOXPLUS01

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:



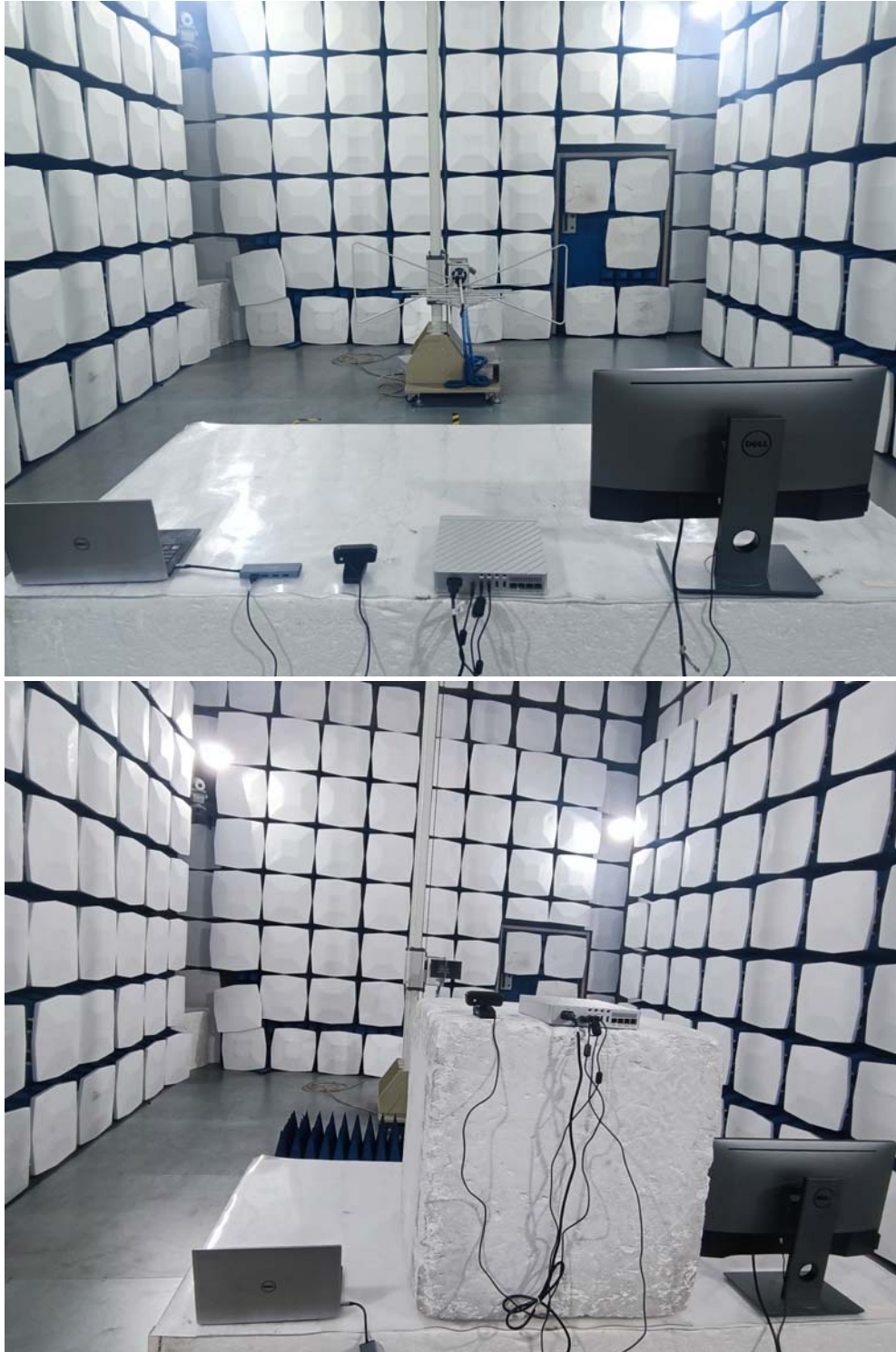
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Radiated Emission Test Setup:



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Photographs – EUT

Outside View



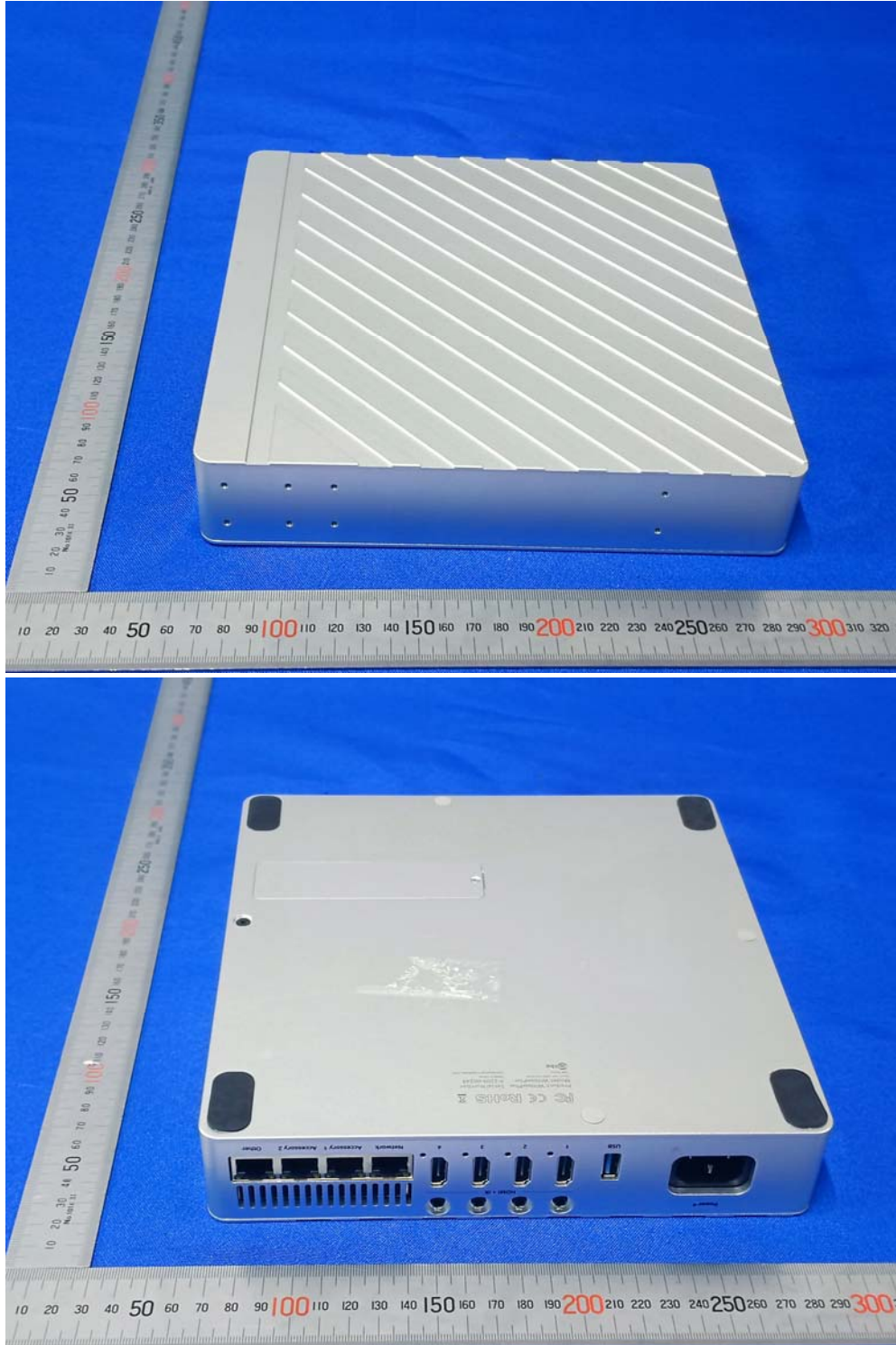
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Outside View



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Inside View



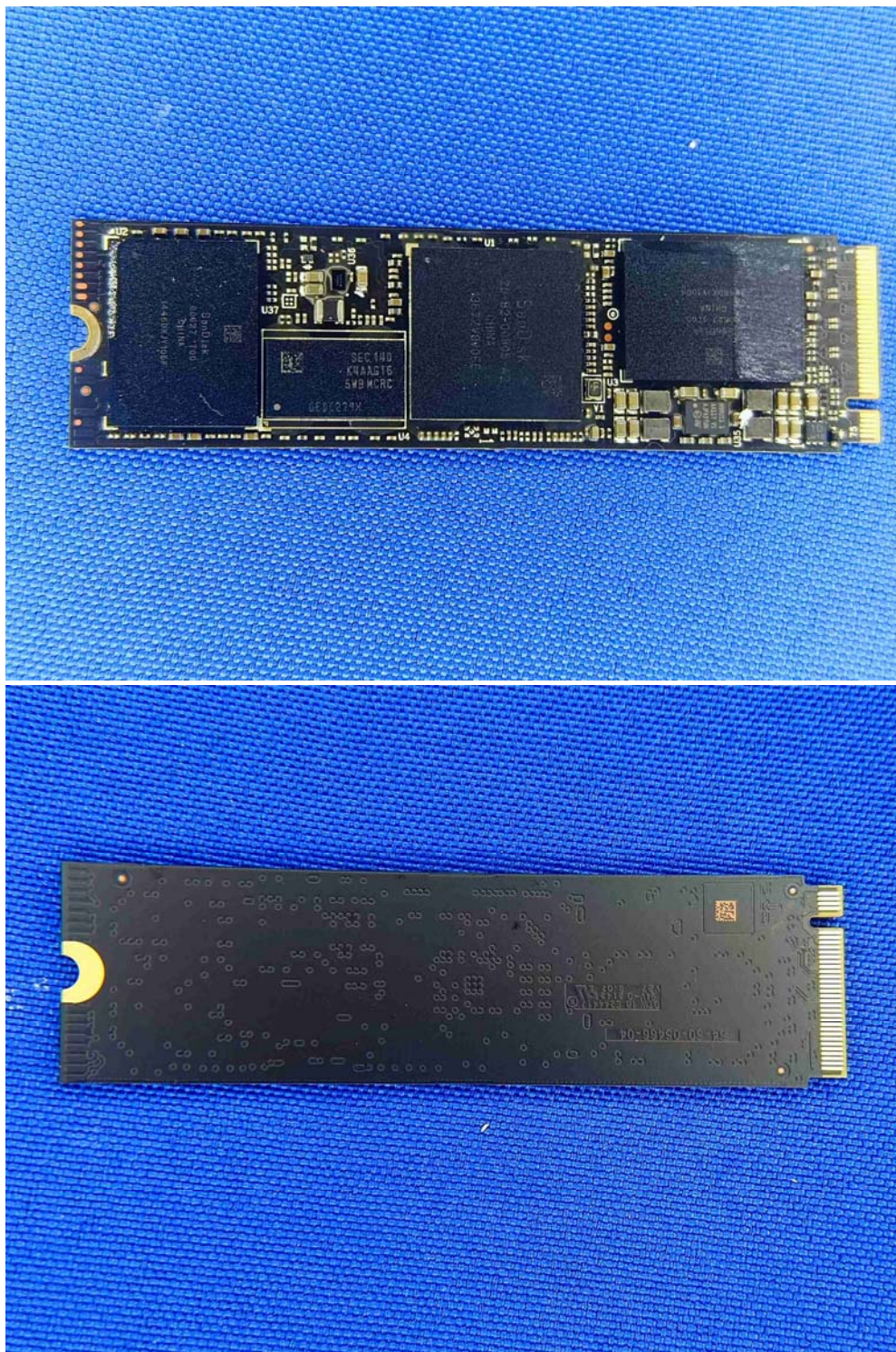
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Inside View



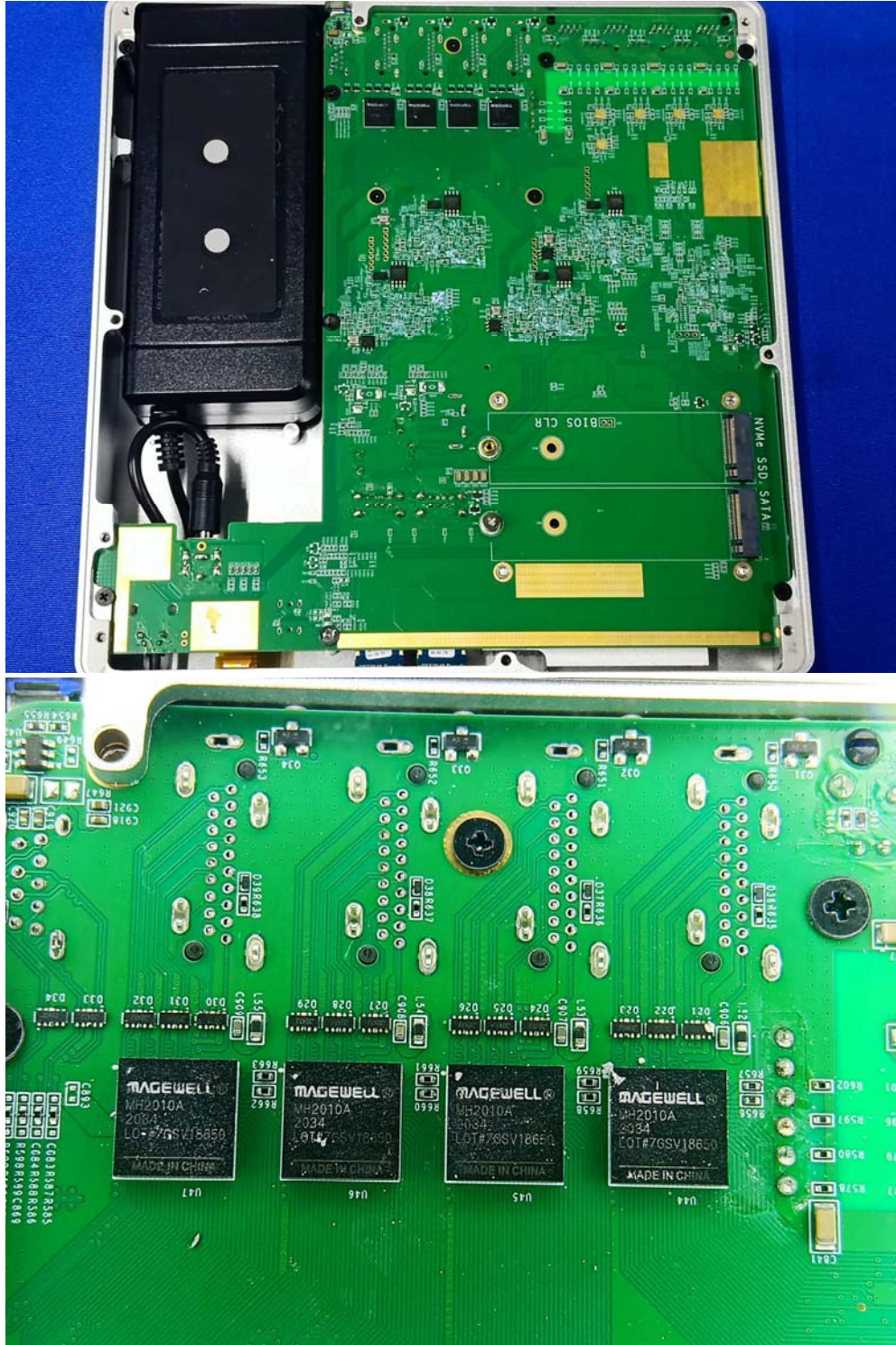
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Inside View



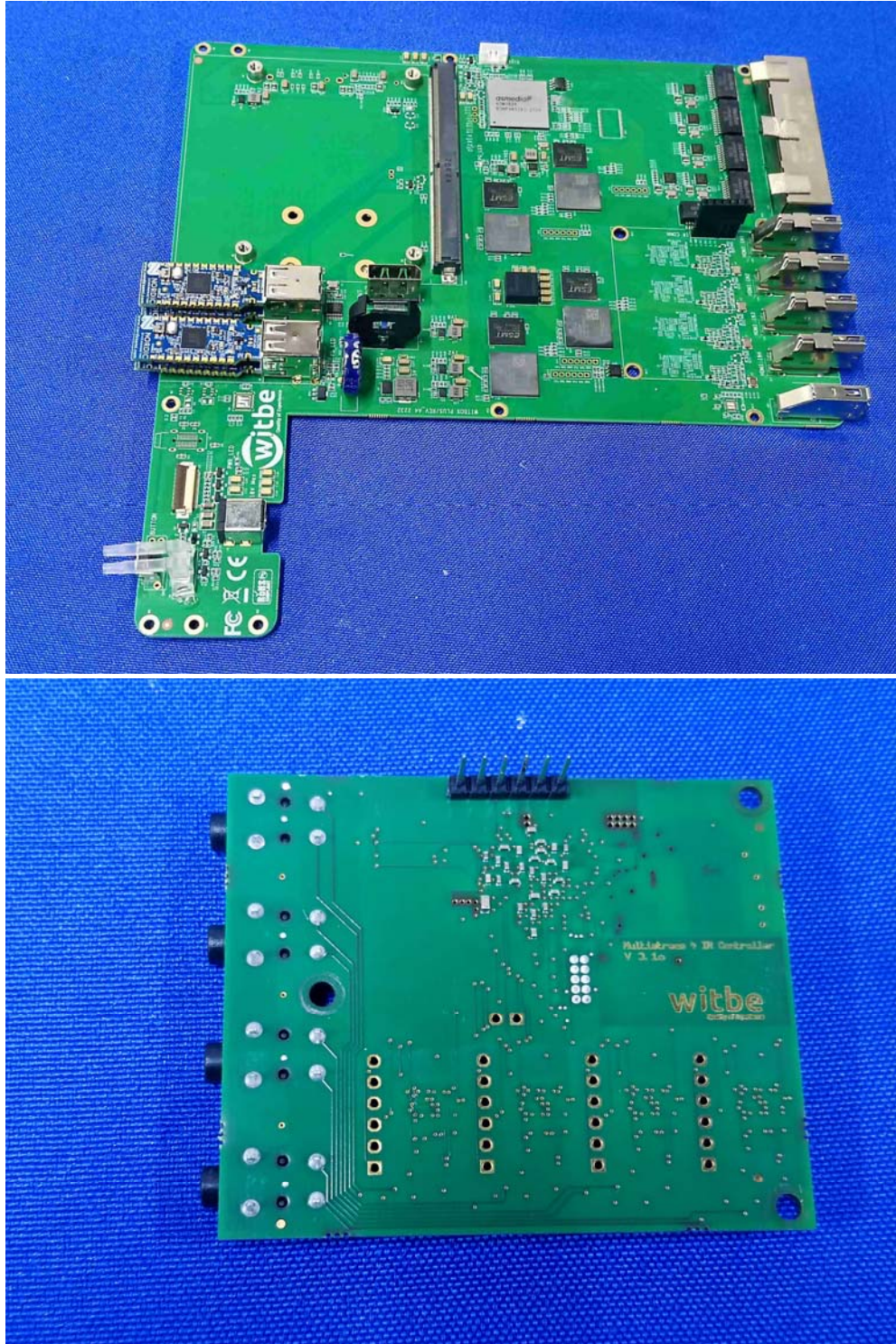
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Inside View



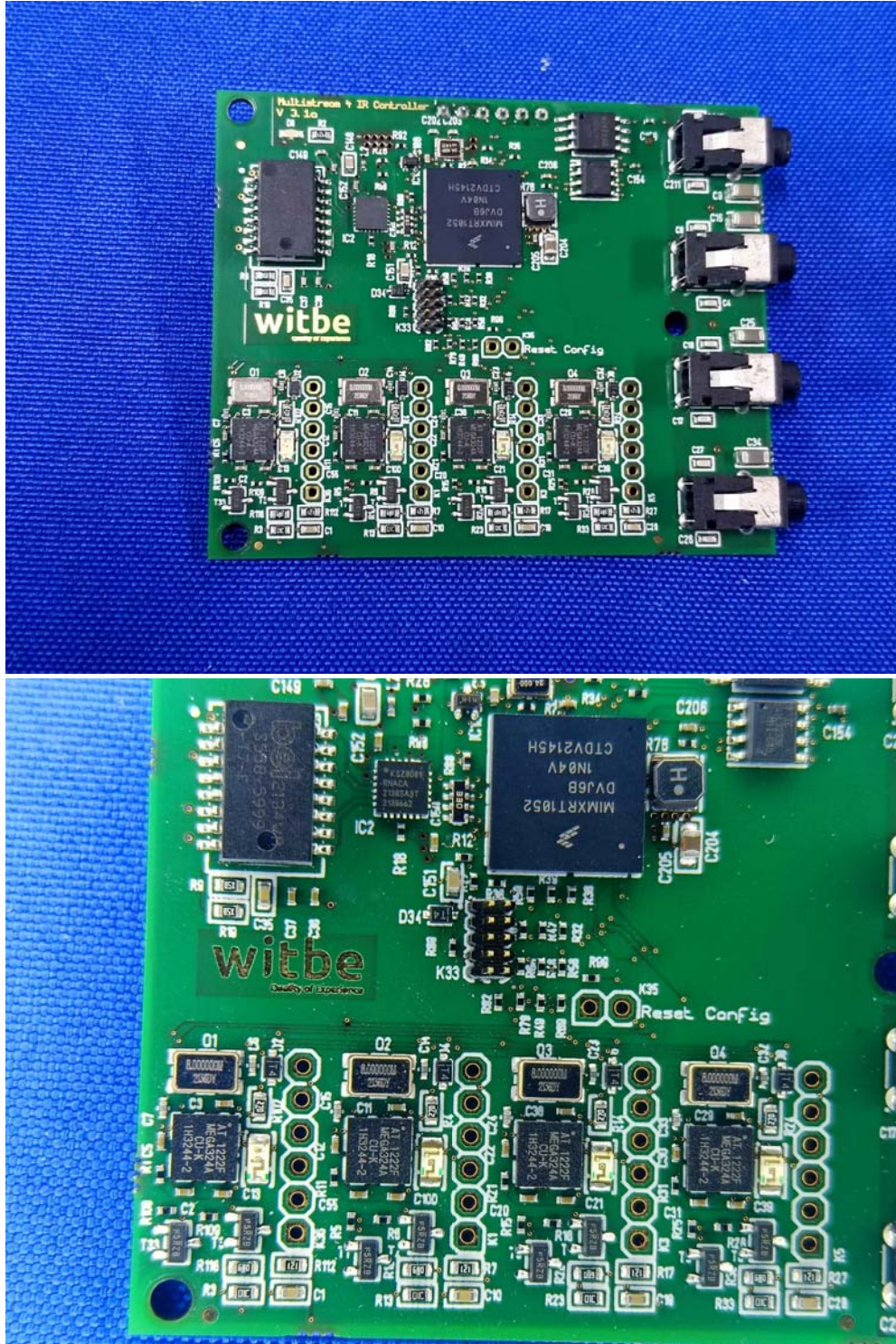
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Inside View



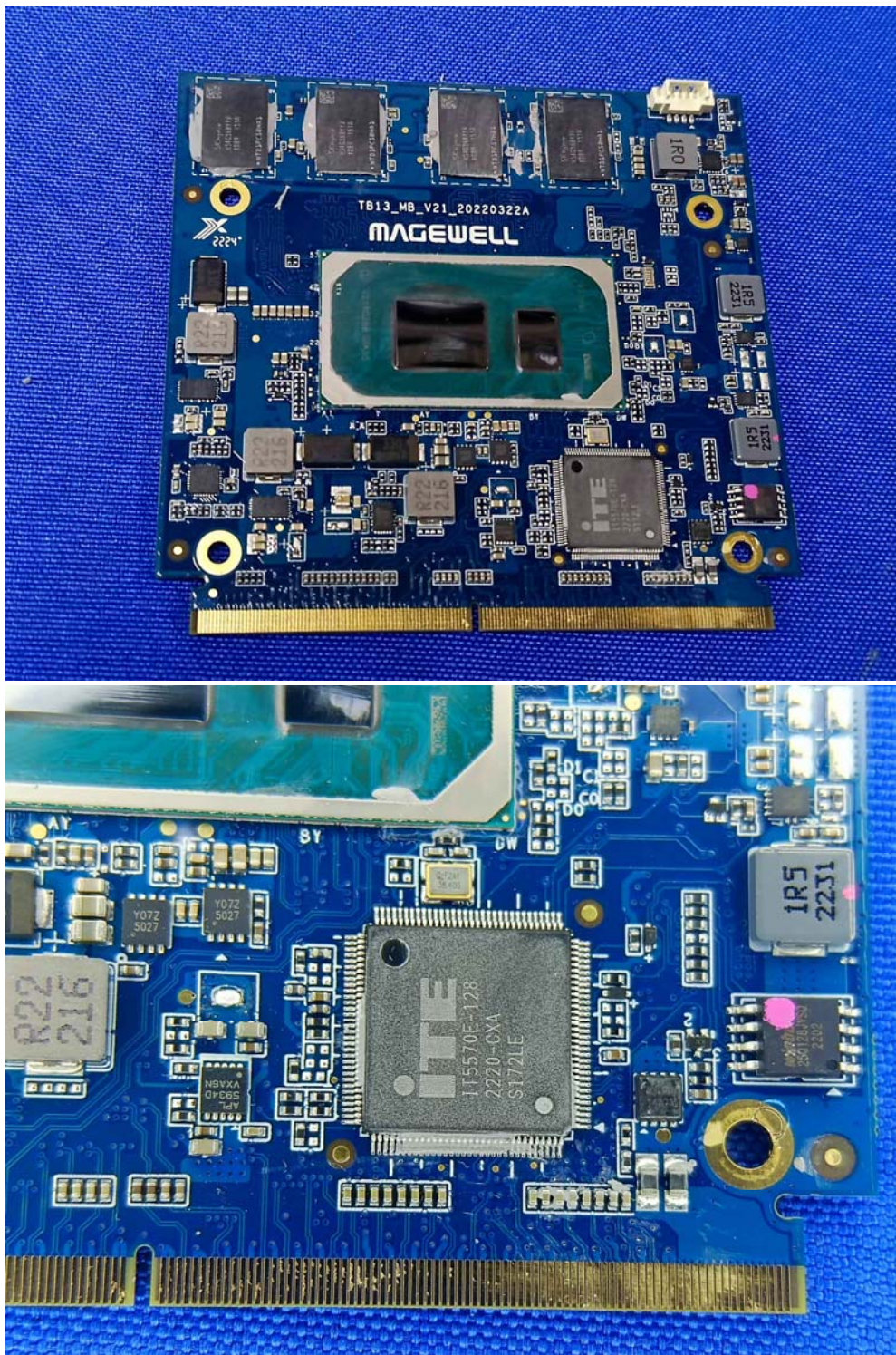
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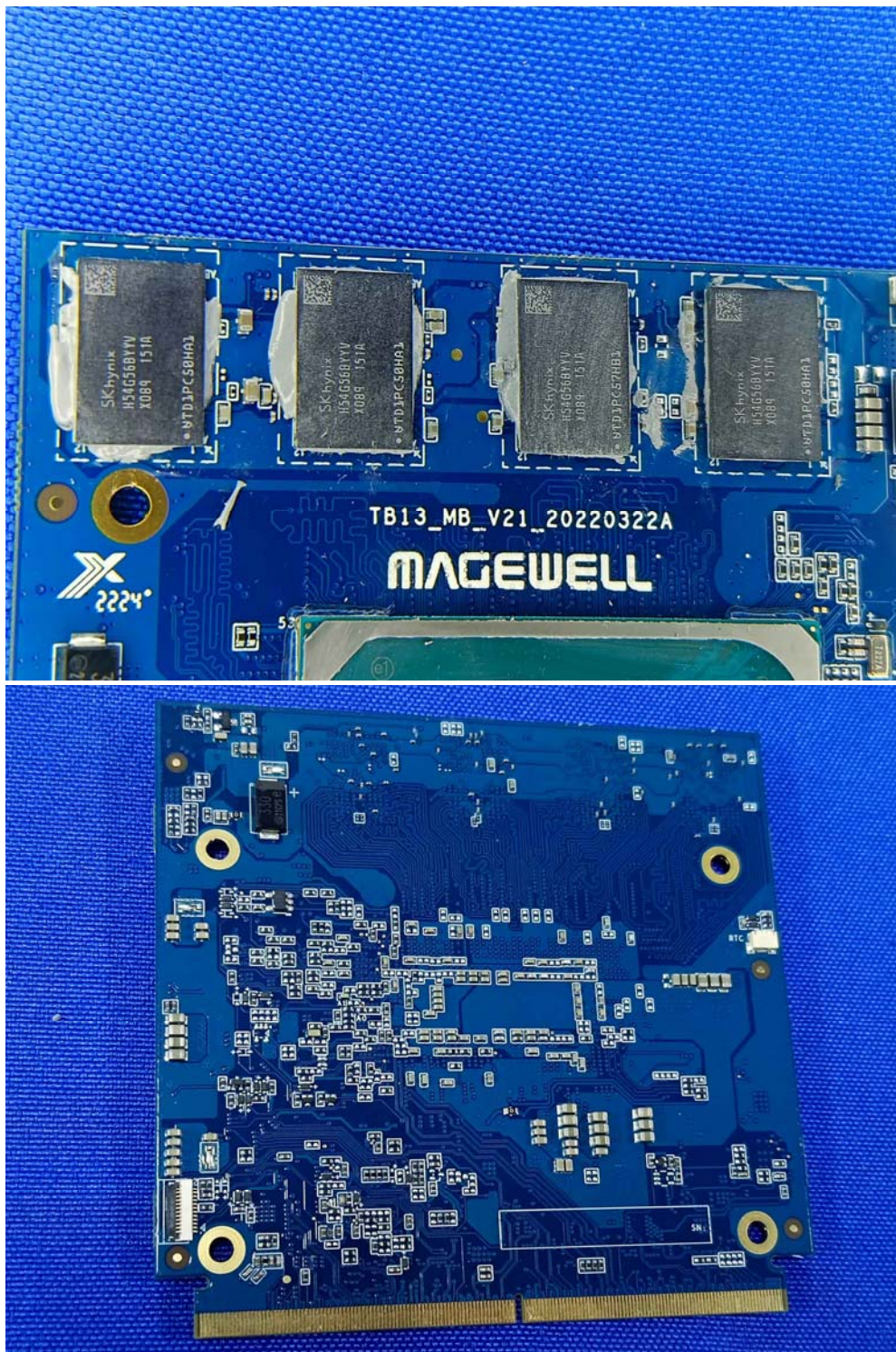
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Inside View



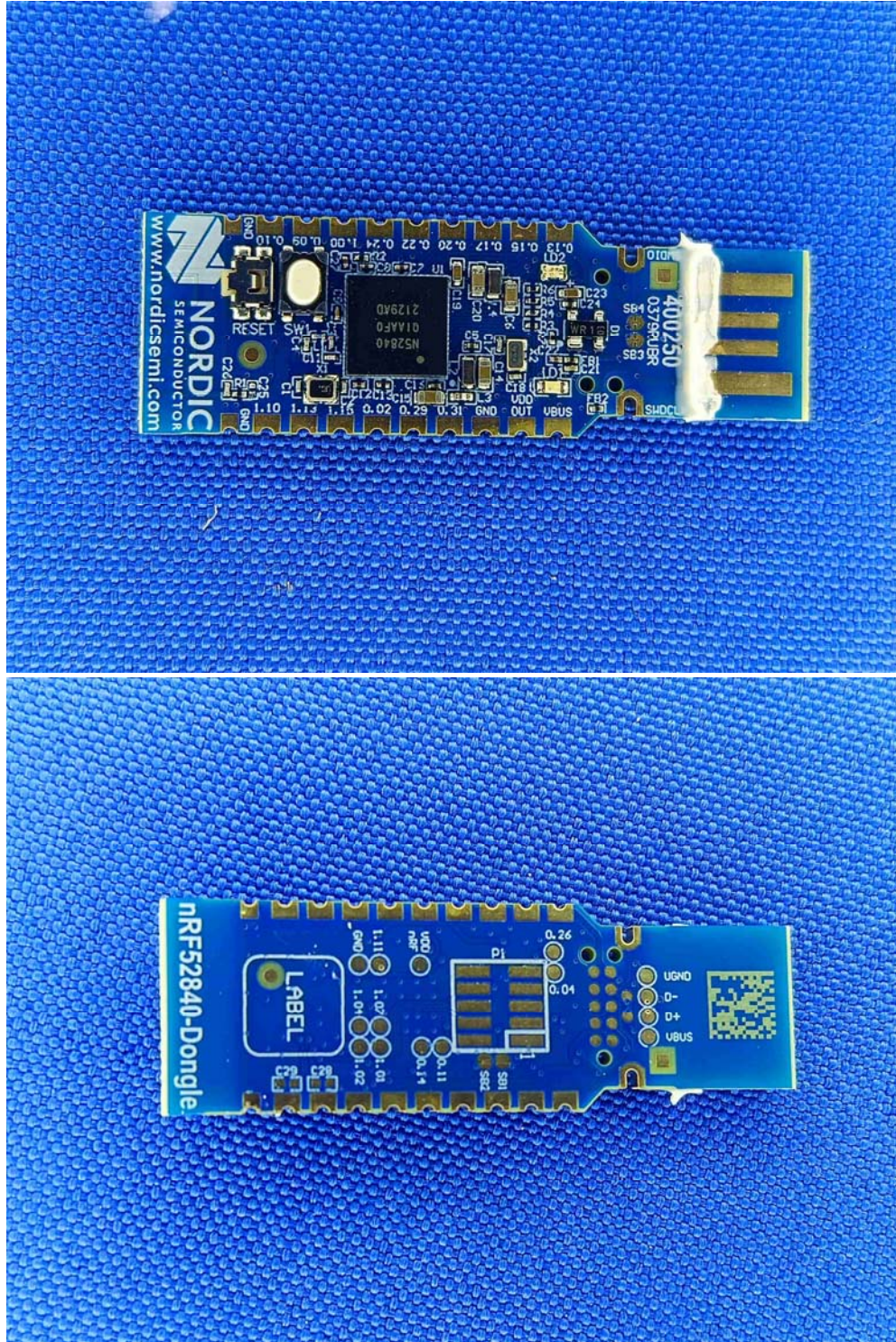
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Inside View



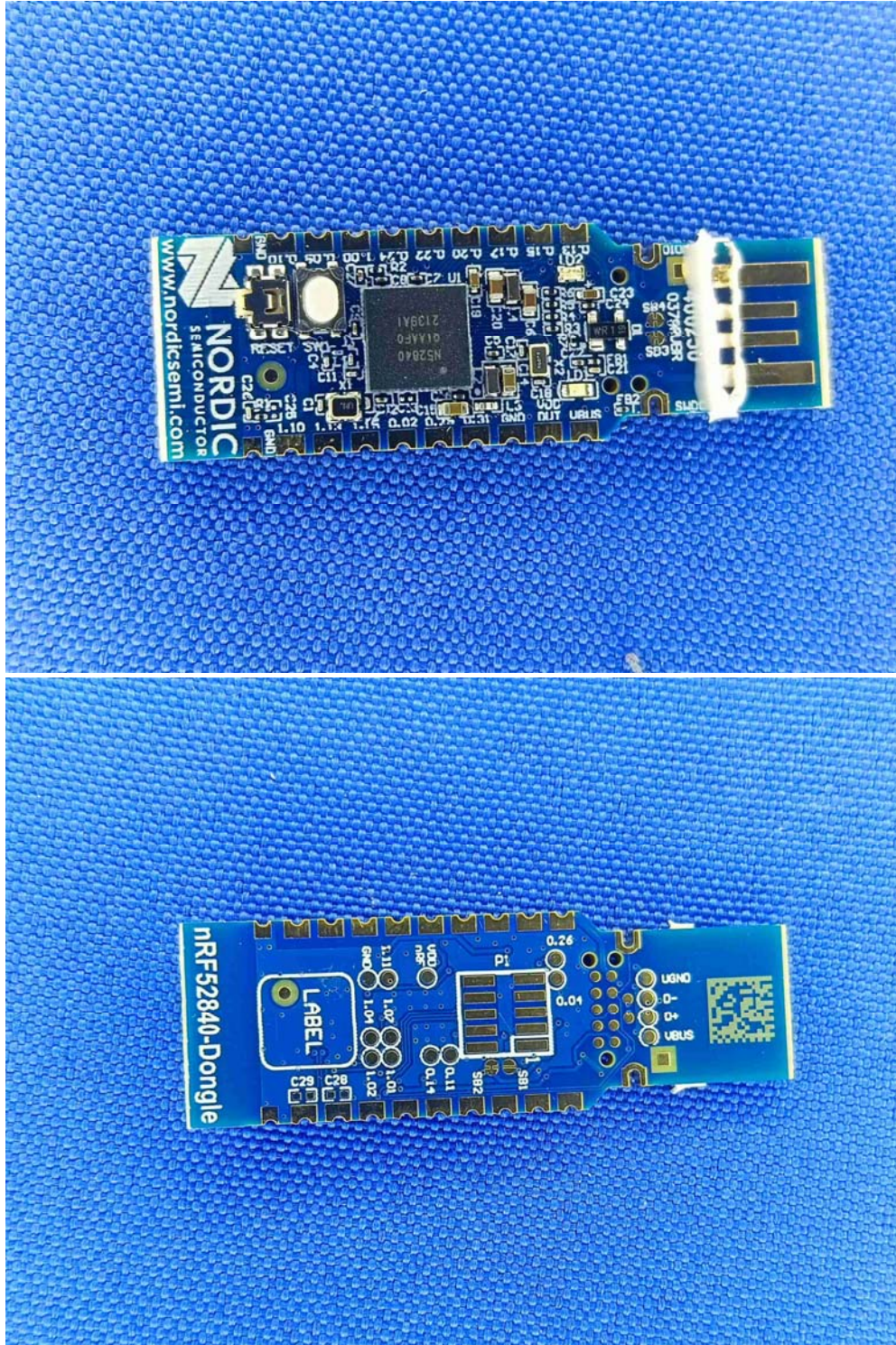
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Inside View



End of the report

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