

TEST REPORT



Report No.: TW2202186E

File Reference No.: 2022-05-17

Applicant: Eastern Times Technology Co.,Ltd

Product: Wired and Wireless headset

Model No.: H818, ET-9101, H818-KS, H818P-KS, H818PRO

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

A handwritten signature in black ink that reads "Terry Tang".

Terry Tang

Manager

Dated: May 17, 2022

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 17025:2005 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: Eastern Times Technology Co.,Ltd
Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.
Telephone: --
Fax: --

1.3 Description of EUT

Product: Wired and Wireless headset
Manufacturer: Eastern Times Technology Co.,Ltd
Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.
Trademark: N/A
Additional Trademark: N/A
Model Number: H818
Additional Model Number: ET-9101, H818-KS, H818P-KS, H818PRO
Hardware Version: 9101-B1_REV2
Software Version: BDS_RX_FengRun_V25
Serial No.: RDH8182022091000001
Type of Modulation: GFSK
Frequency range: 2403-2477MHz
Channel Separation: 1MHz
Channel Number: 75
Rating: DC5V, 45mA
Battery: DC3.7V, 1000mAh Li-ion battery

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

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2022-02-28 to 2022-05-14

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%

1.7 Test Engineer

The sample tested by Andy Xing

Print Name: Andy Xing



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2022-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-15	2022-05-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/F A	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

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

Note: during the test, the duty cycle was set up to 100%.

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

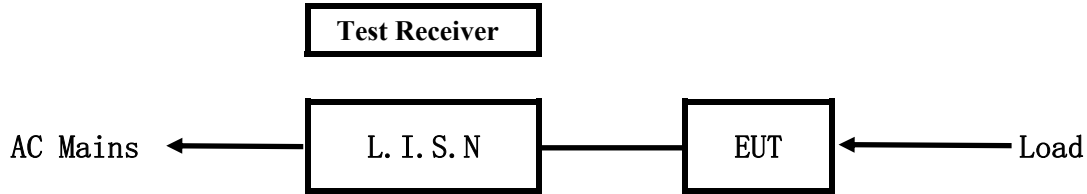
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



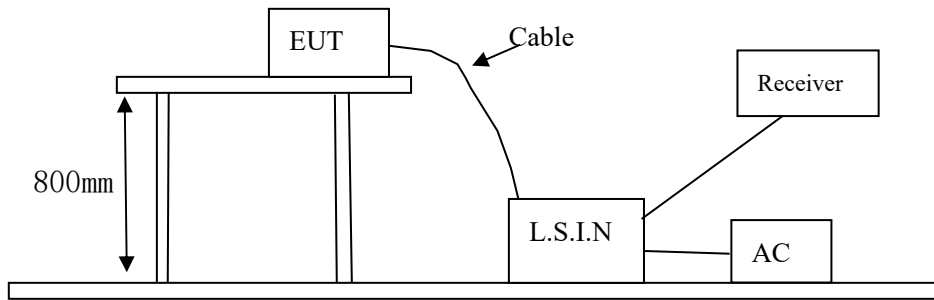
EUT: Equipment Under Test

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
Wired and Wireless headset	Eastern Times Technology Co.,Ltd	H818, ET-9101, H818-KS, H818P-KS	TUVET-9101

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

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)

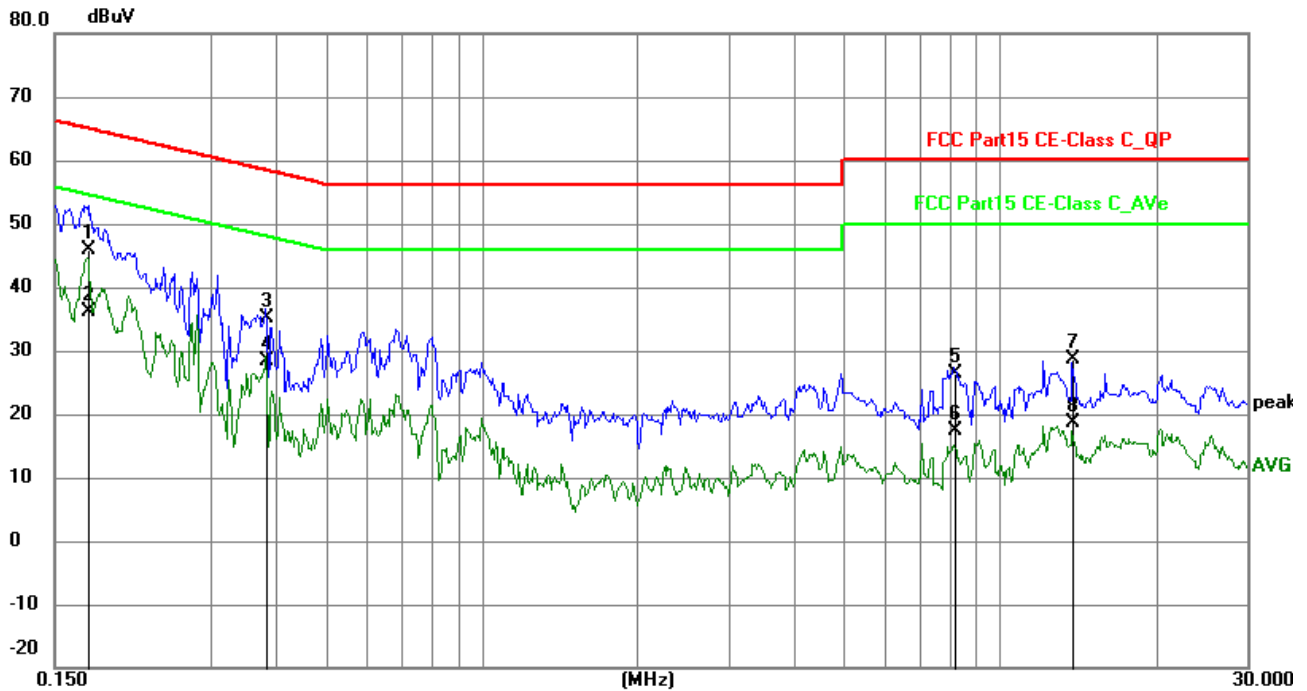
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1734	36.13	9.77	45.90	64.80	-18.90	QP	P
2	0.1734	26.45	9.77	36.22	54.80	-18.58	AVG	P
3	0.3840	25.38	9.76	35.14	58.19	-23.05	QP	P
4	0.3840	18.69	9.76	28.45	48.19	-19.74	AVG	P
5	8.1655	16.39	10.07	26.46	60.00	-33.54	QP	P
6	8.1655	7.24	10.07	17.31	50.00	-32.69	AVG	P
7	13.7796	18.39	10.33	28.72	60.00	-31.28	QP	P
8	13.7796	8.27	10.33	18.60	50.00	-31.40	AVG	P

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

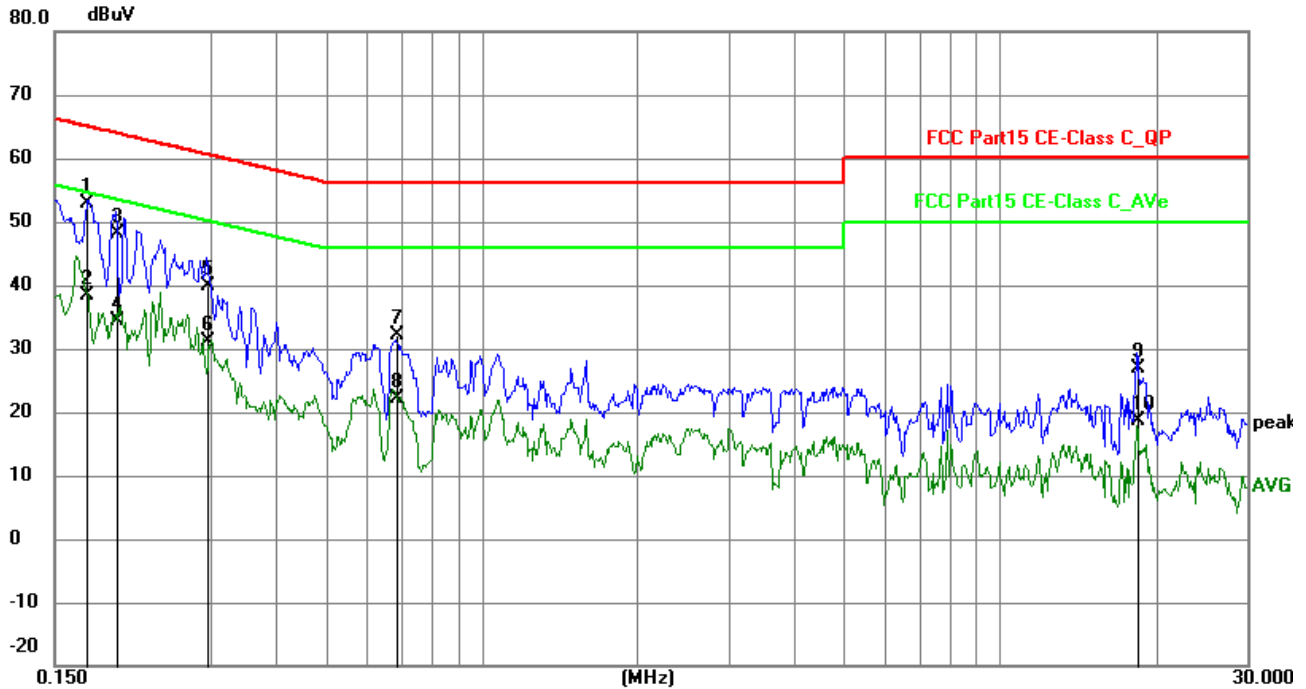
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1726	43.16	9.77	52.93	64.83	-11.90	QP	P
2	0.1726	28.67	9.77	38.44	54.83	-16.39	AVG	P
3	0.1968	38.26	9.75	48.01	63.74	-15.73	QP	P
4	0.1968	24.64	9.75	34.39	53.74	-19.35	AVG	P
5	0.2943	30.01	9.76	39.77	60.40	-20.63	QP	P
6	0.2943	21.46	9.76	31.22	50.40	-19.18	AVG	P
7	0.6843	22.45	9.78	32.23	56.00	-23.77	QP	P
8	0.6843	12.35	9.78	22.13	46.00	-23.87	AVG	P
9	18.4516	16.35	10.59	26.94	60.00	-33.06	QP	P
10	18.4516	8.15	10.59	18.74	50.00	-31.26	AVG	P

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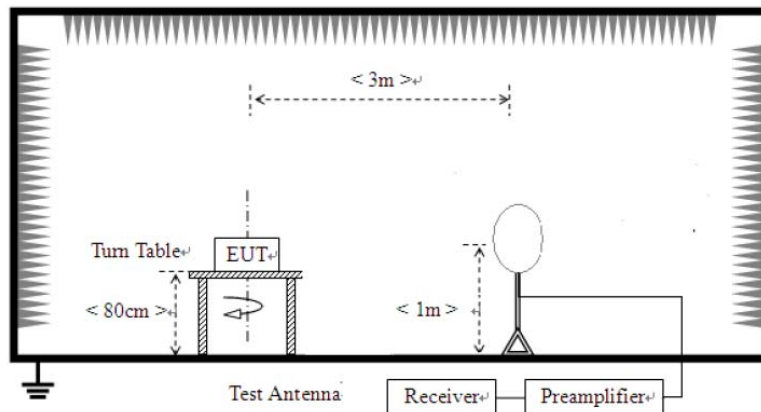
6 Radiated Emission Test

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

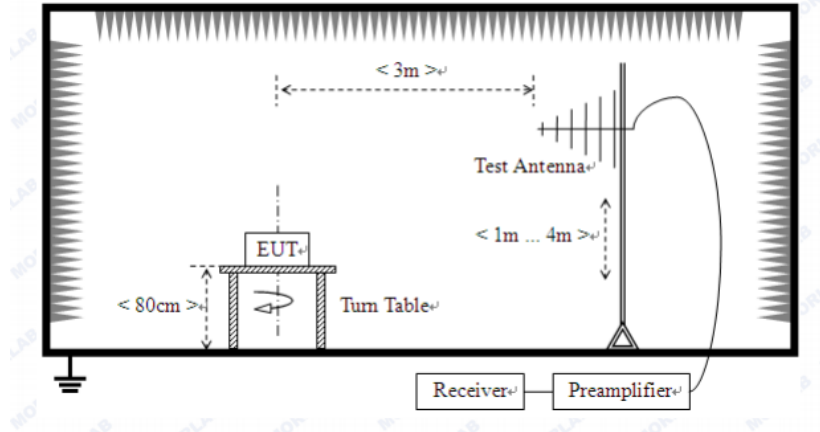


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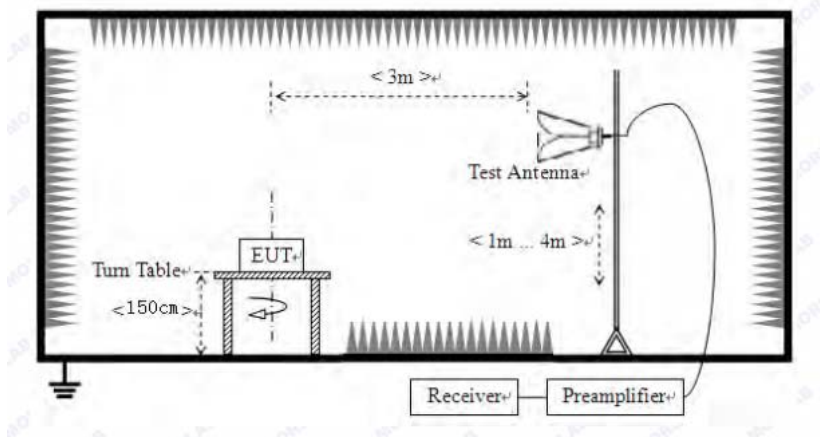
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For radiated emissions from 30MHz to 1GHz



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)
0.009-0.049	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 (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
 7. Battery was fully charged during the test
 8. ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

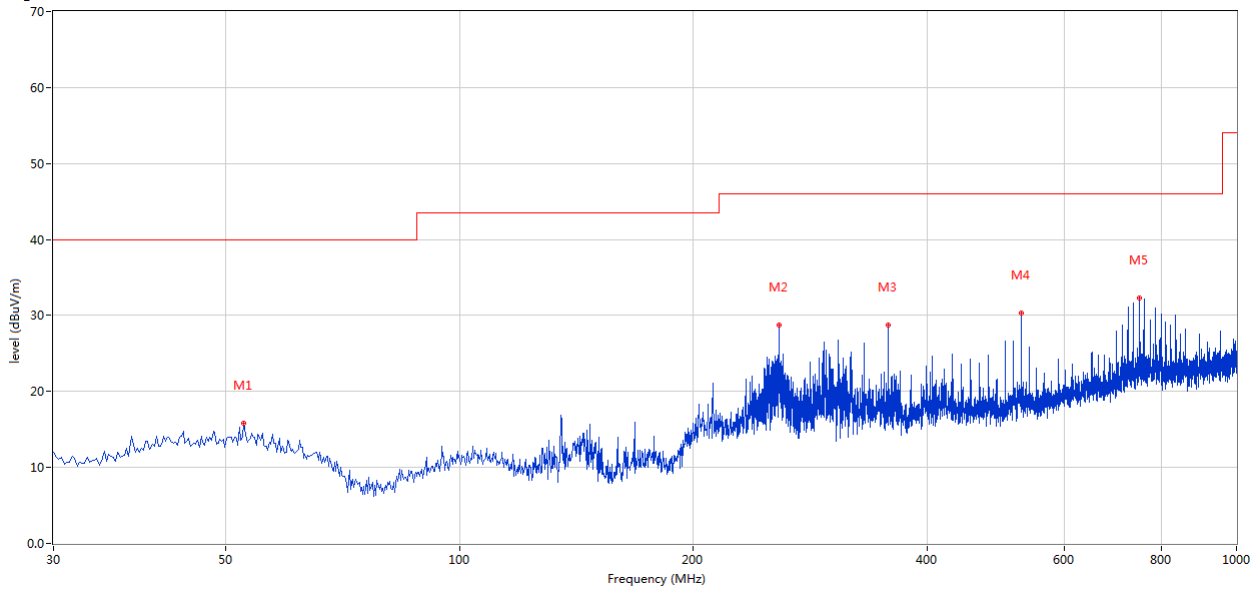
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	FrequFCCcy (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	52.789	15.81	-11.48	40.0	-24.19	Peak	15.00	100	Horizontal	Pass
2	257.893	28.80	-11.84	46.0	-17.20	Peak	74.00	100	Horizontal	Pass
3	356.323	28.80	-9.50	46.0	-17.20	Peak	3.00	100	Horizontal	Pass
4	528.455	30.32	-6.62	46.0	-15.68	Peak	38.00	100	Horizontal	Pass
5	749.560	32.36	-3.39	46.0	-13.64	Peak	44.00	100	Horizontal	Pass

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

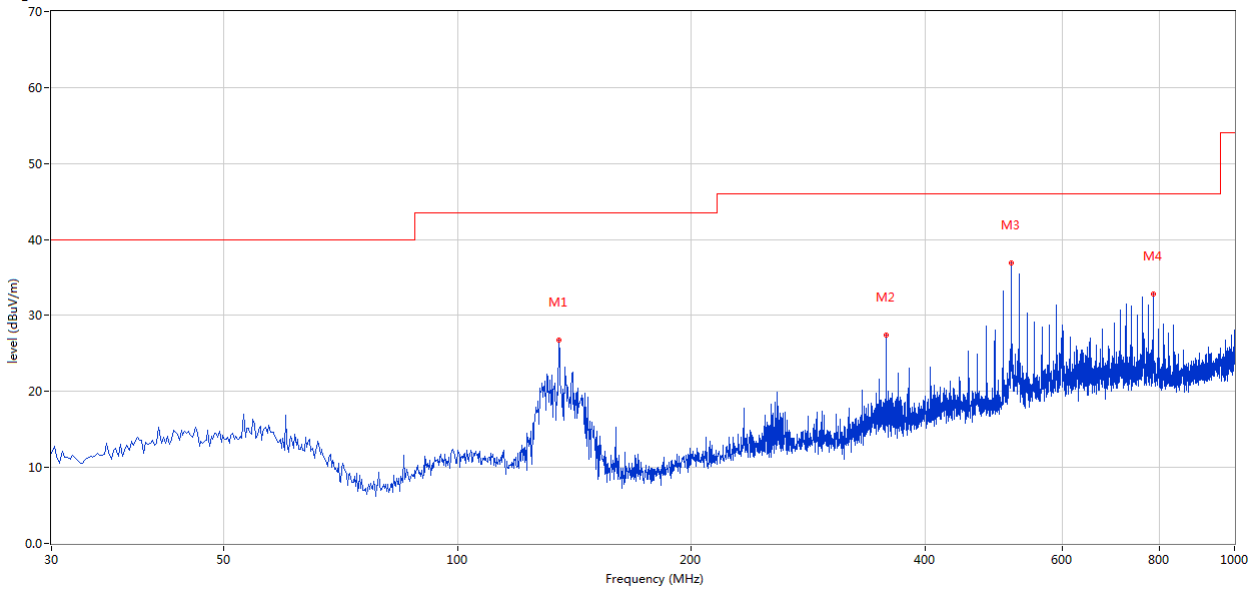
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	134.976	26.81	-17.15	43.5	-16.69	Peak	306.00	100	Vertical	Pass
2	356.323	27.41	-9.50	46.0	-18.59	Peak	359.00	100	Vertical	Pass
3	516.091	35.29	-6.77	46.0	-10.71	Peak	293.00	100	Vertical	Pass
4	786.411	32.78	-3.06	46.0	-13.22	Peak	360.00	100	Vertical	Pass

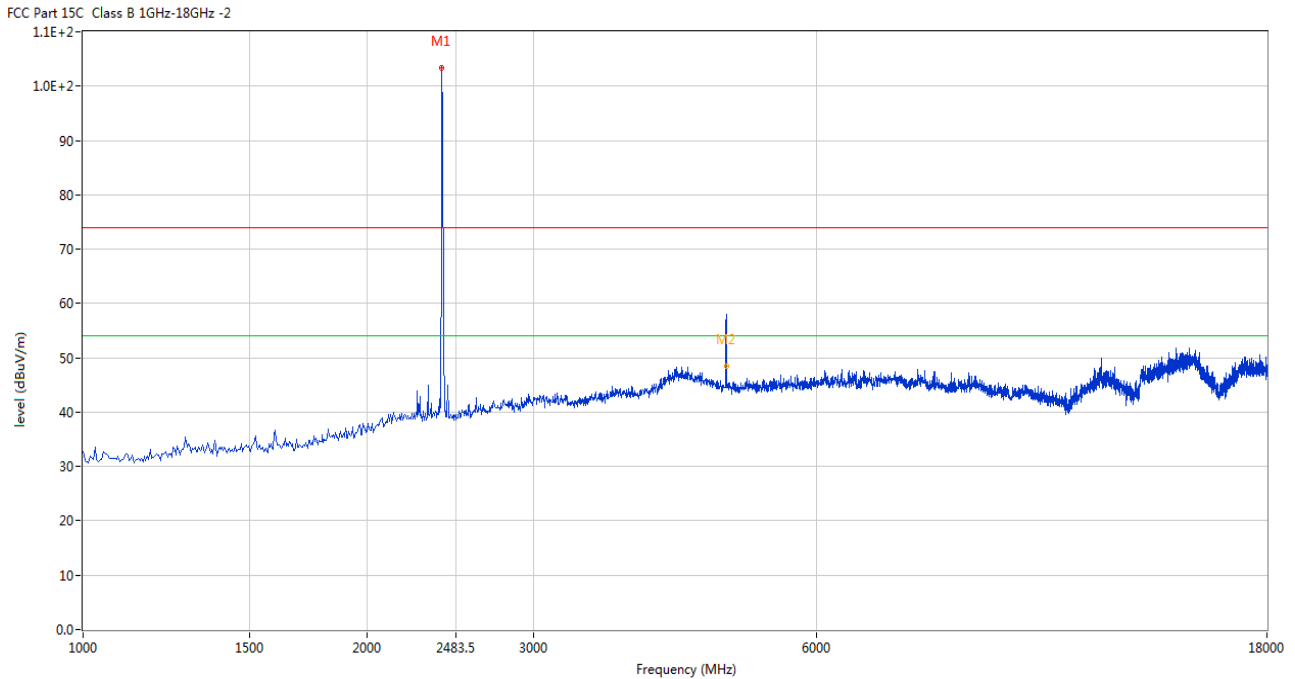
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal



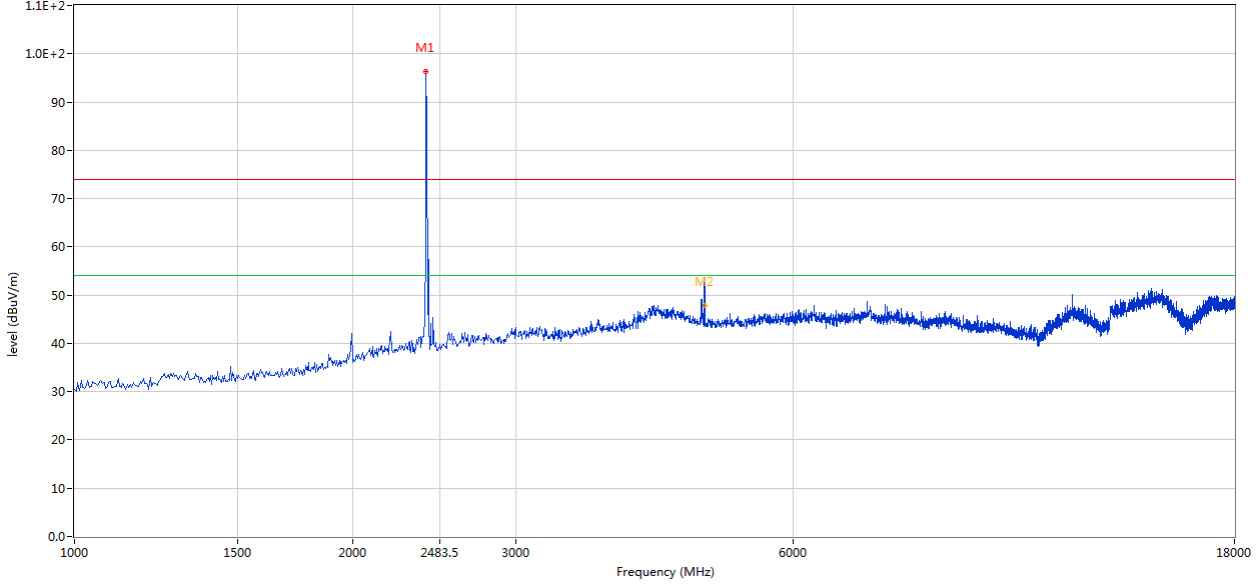
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	103.29	-3.57	74.0	29.29	Peak	322.00	100	Horizontal	N/A
2	4807.048	57.97	3.13	74.0	-16.03	Peak	327.00	100	Horizontal	Pass
2**	4807.048	48.50	3.13	54.0	-5.50	AV	327.00	100	Horizontal	Pass

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Low Channel: Vertical

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

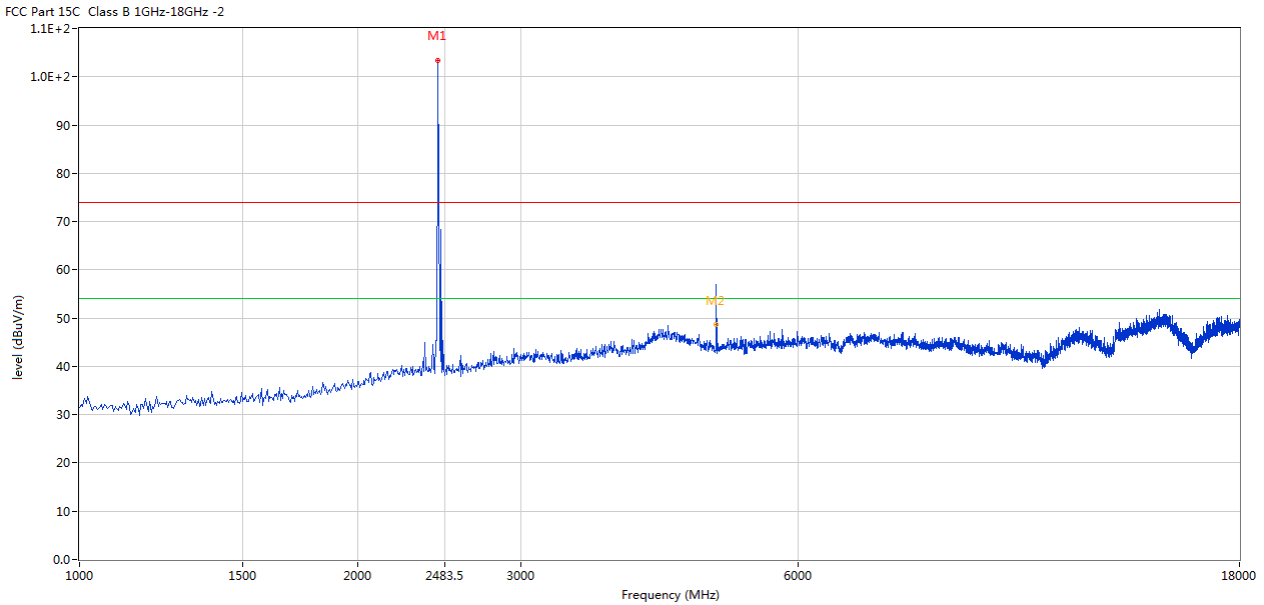


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	96.34	-3.57	74.0	22.34	Peak	324.00	100	Vertical	N/A
2	4807.048	53.63	3.13	74.0	-20.37	Peak	324.00	100	Vertical	Pass
2**	4807.048	47.80	3.13	54.0	-6.20	AV	324.00	100	Vertical	Pass

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Middle Channel: Horizontal

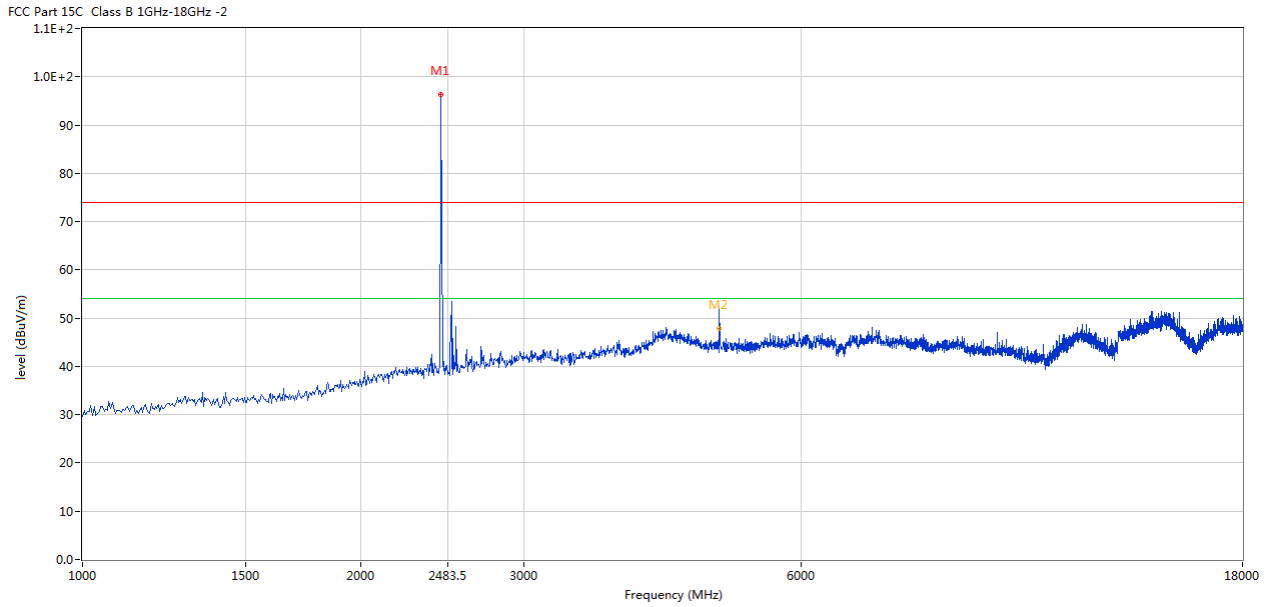


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2444	103.36	-3.57	74.0	29.36	Peak	354.00	100	Horizontal	N/A
2	4887.778	57.06	3.20	74.0	-16.94	Peak	354.00	100	Horizontal	Pass
2**	4887.778	48.58	3.20	54.0	-5.42	AV	354.00	100	Horizontal	Pass

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Middle Channel: Vertical

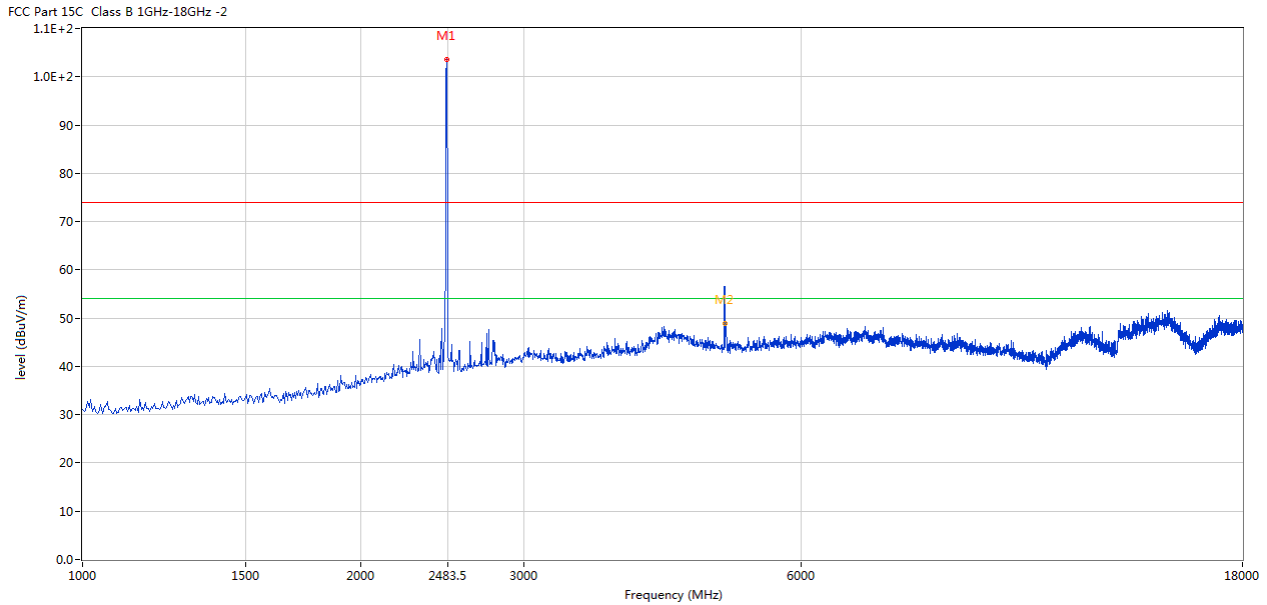


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2444	96.26	-3.57	74.0	22.26	Peak	22.00	100	Vertical	N/A
2	4887.778	52.56	3.20	74.0	-21.44	Peak	22.00	100	Vertical	Pass
2**	4887.778	47.85	3.20	54.0	-6.15	AV	22.00	100	Vertical	Pass

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High Channel: Horizontal

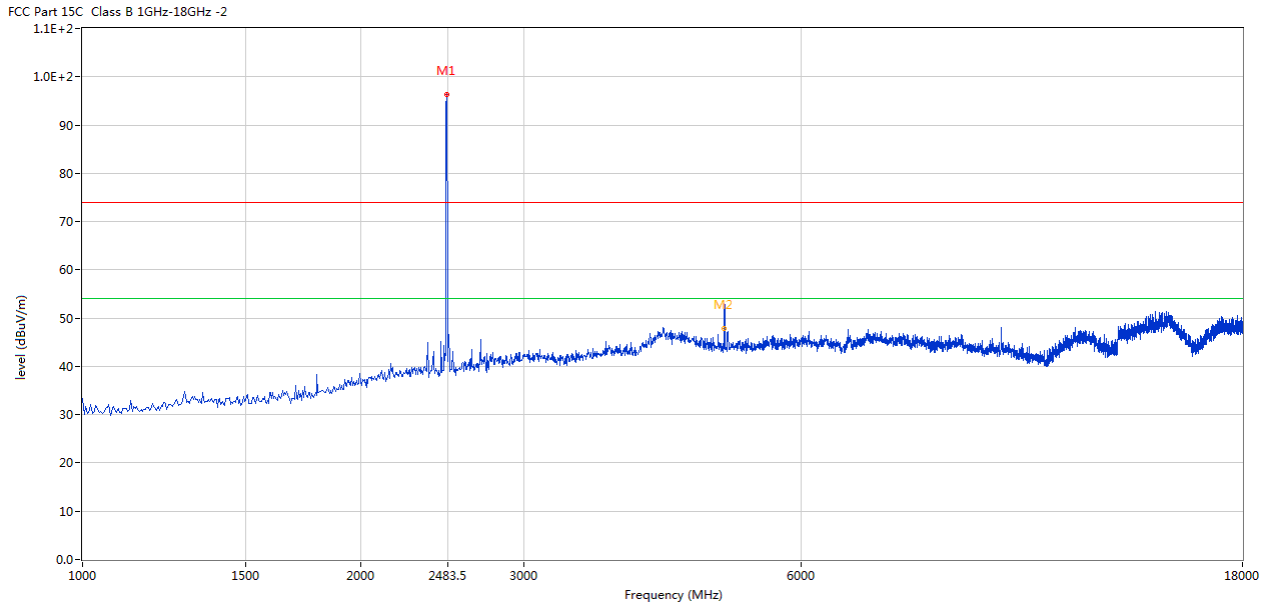


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2477	103.68	-3.57	74.0	29.68	Peak	28.00	100	Horizontal	N/A
2	4954.761	56.64	3.35	74.0	-17.36	Peak	33.00	100	Horizontal	Pass
2**	4954.761	48.84	3.35	54.0	-5.16	AV	33.00	100	Horizontal	Pass

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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	2477	96.37	-3.57	74.0	22.37	Peak	333.00	100	Vertical	N/A
2	4954.512	53.00	3.34	74.0	-21.00	Peak	333.00	100	Vertical	Pass
2**	4954.512	47.87	3.34	54.0	-6.13	AV	333.00	100	Vertical	Pass

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. ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case

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

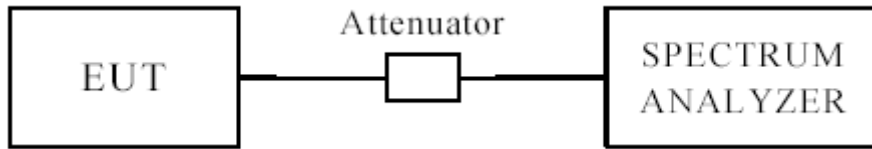
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7.0 6dB Bandwidth Measurement

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

EUT	Wired and Wireless headset	Model	H818	
Mode	Keep Transmitting	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2403	1473	0.5	Pass
Middle	2444	1483	0.5	Pass
High	2477	1453	0.5	Pass

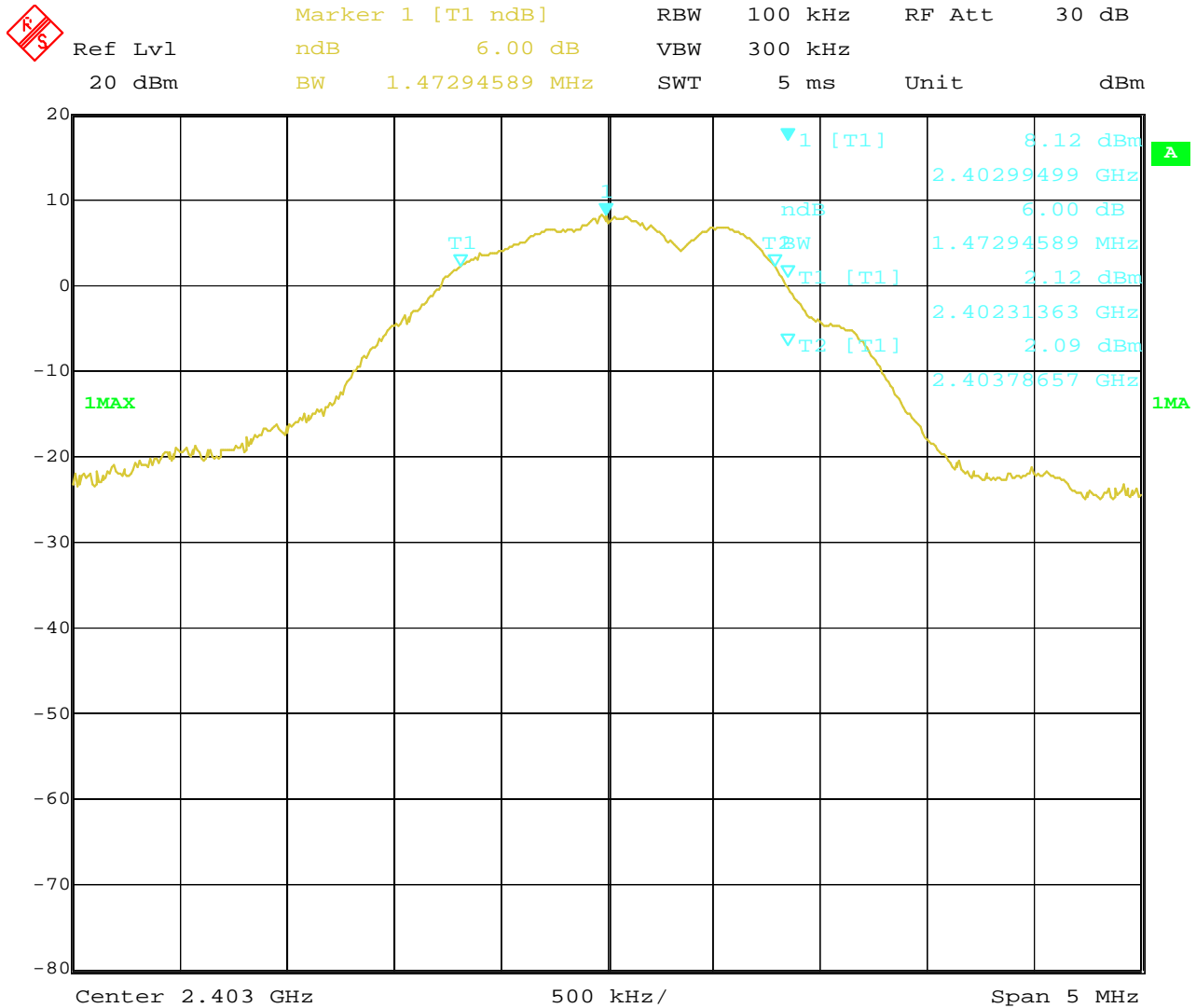
Note: ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case

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Test Figure:

1. Condition: Low Channel



Date: 17.MAY.2022 11:27:29

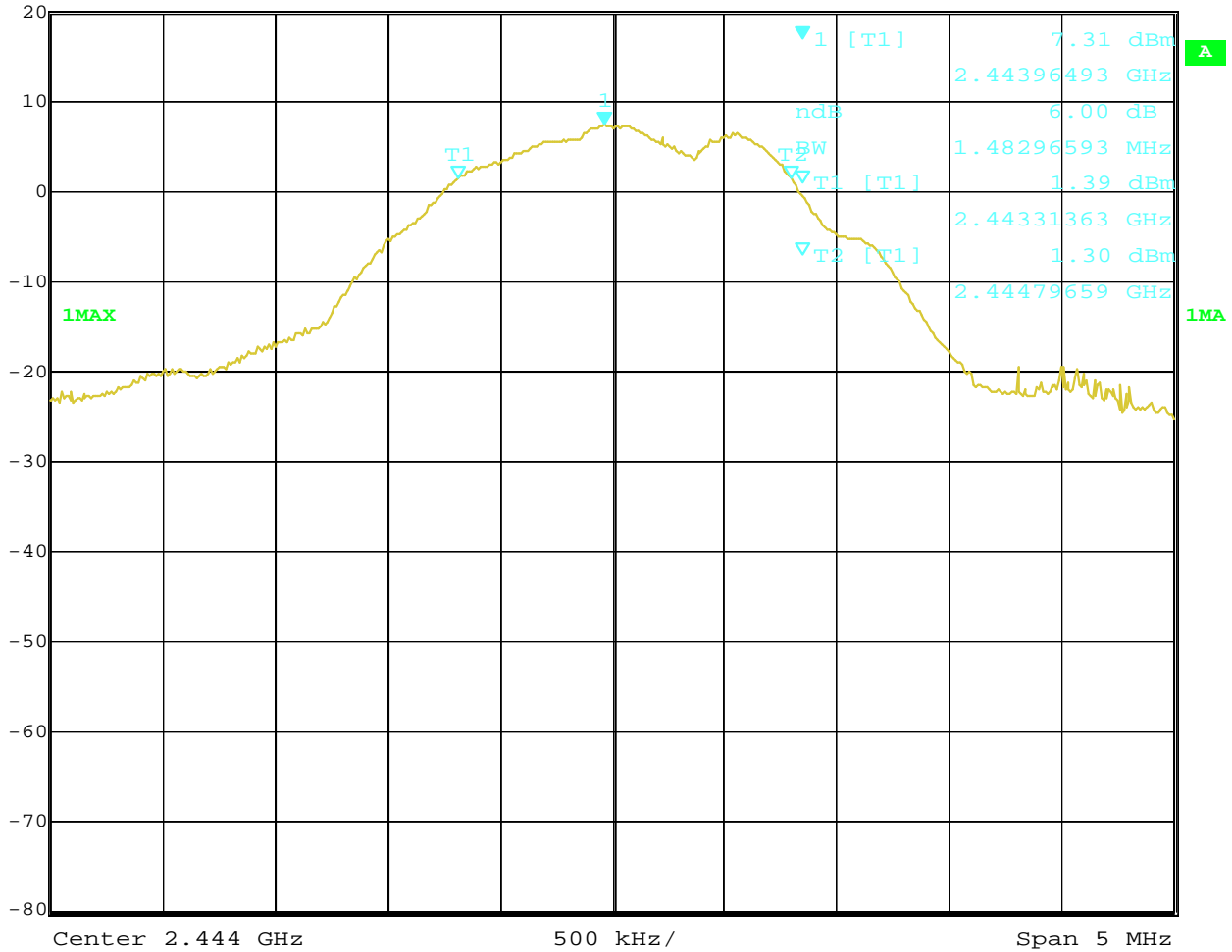
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2. Condition: Middle Channel



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	ndB	6.00 dB	RBW	100 kHz	RF Att	30 dB
		BW	1.48296593 MHz		VBW	300 kHz	Unit	dBm
					SWT	5 ms		



Date: 17.MAY.2022 11:34:53

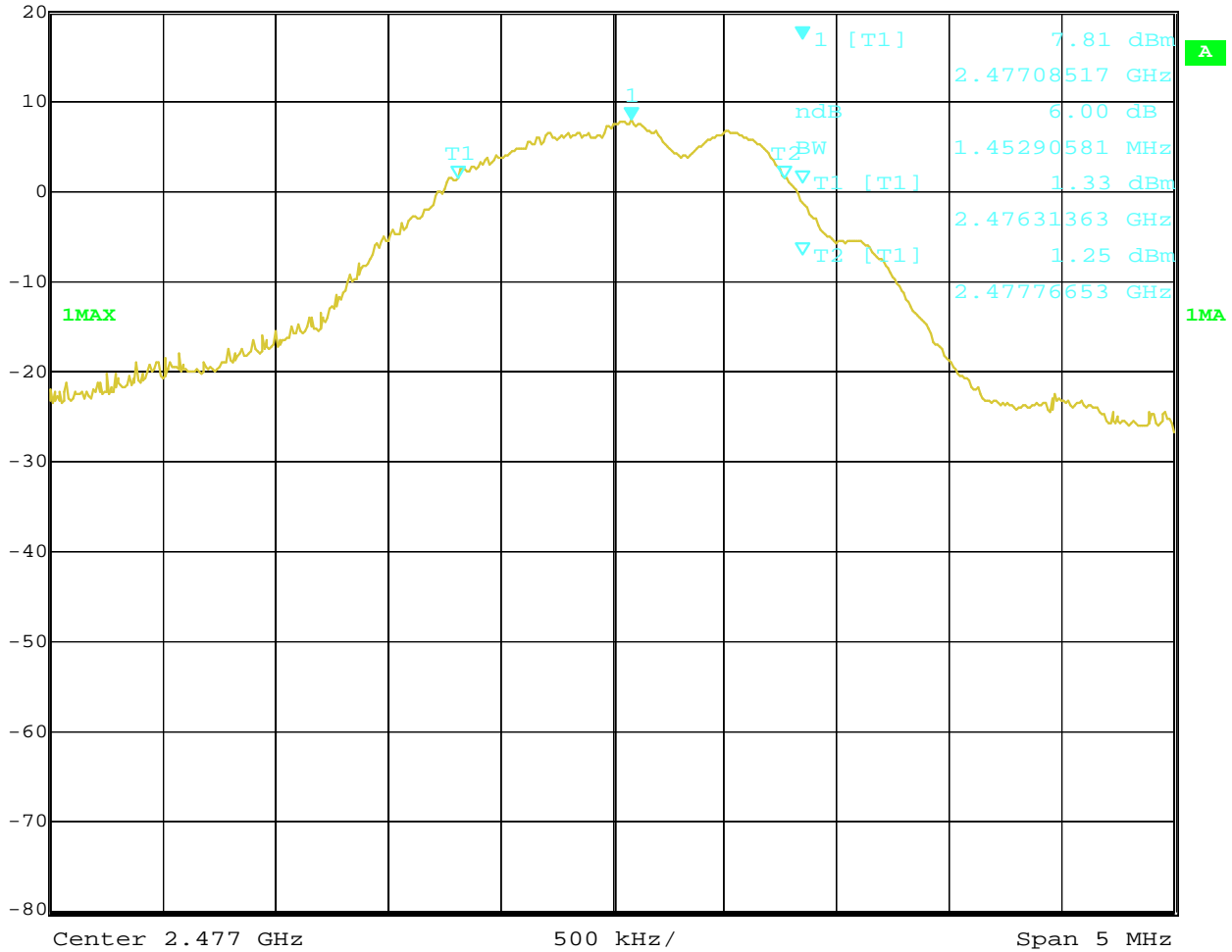
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3. High Channel



Ref Lvl	20 dBm	Marker 1 [T1 ndB]	6.00 dB	RBW	100 kHz	RF Att	30 dB
		BW	1.45290581 MHz	VBW	300 kHz	Unit	dBm
		SWT	5 ms				



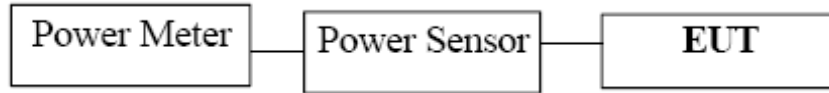
Date: 17.MAY.2022 11:21:59

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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 AV power were measured.



8.4 Test Results

EUT	Wired and Wireless headset	Model	H818		
Mode	Keep Transmitting	Input Voltage	DC3.7V		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail
		AV			
Low	2403	1.90		30	Pass
Middle	2444	2.12		30	Pass
High	2477	1.61		30	Pass

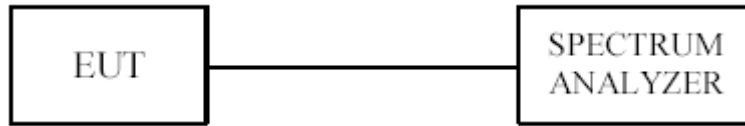
- Note: 1. The result basic equation calculation as follow: Max. Power Output = Power Reading + Cable loss + Attenuator
2. ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case

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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.



9.4 Test Result

EUT	Wired and Wireless headset		Model	H818	
Mode	Keep Transmitting		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	4.46	0.2	4.66	8	Pass
Middle	3.40	0.2	3.60	8	Pass
High	3.51	0.2	3.71	8	Pass

Note: 1. The result basic equation calculation as follow: Peak Power Output = Peak Power Reading + Cable loss
 2. ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case

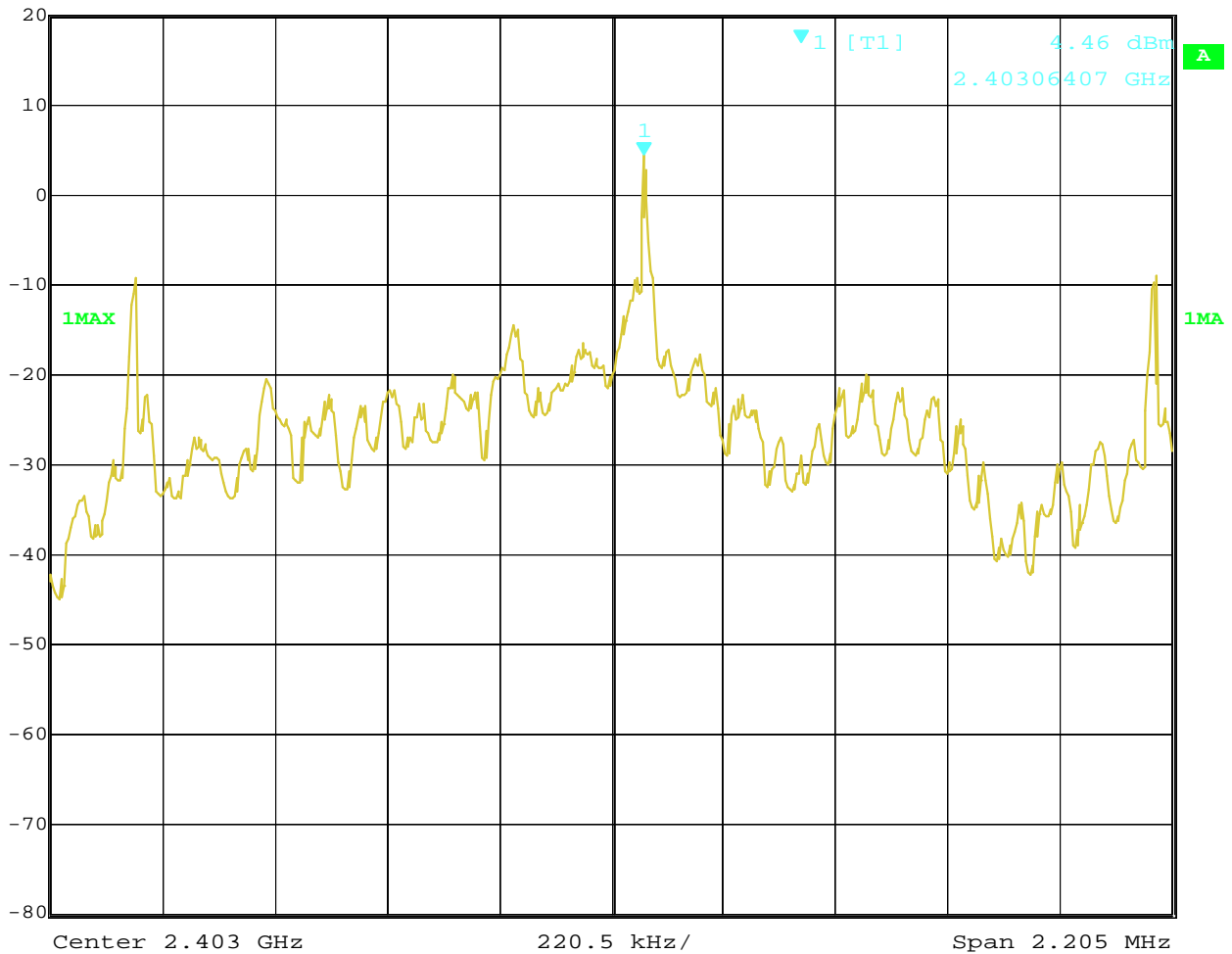
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Test Figure:

1. Condition: Low Channel

	Marker 1 [T1]	RBW	3 kHz	RF Att	30 dB
	Ref Lvl	4.46 dBm	VBW	10 kHz	
	20 dBm	2.40306407 GHz	SWT	620 ms	Unit dBm



Date: 17.MAY.2022 11:28:32

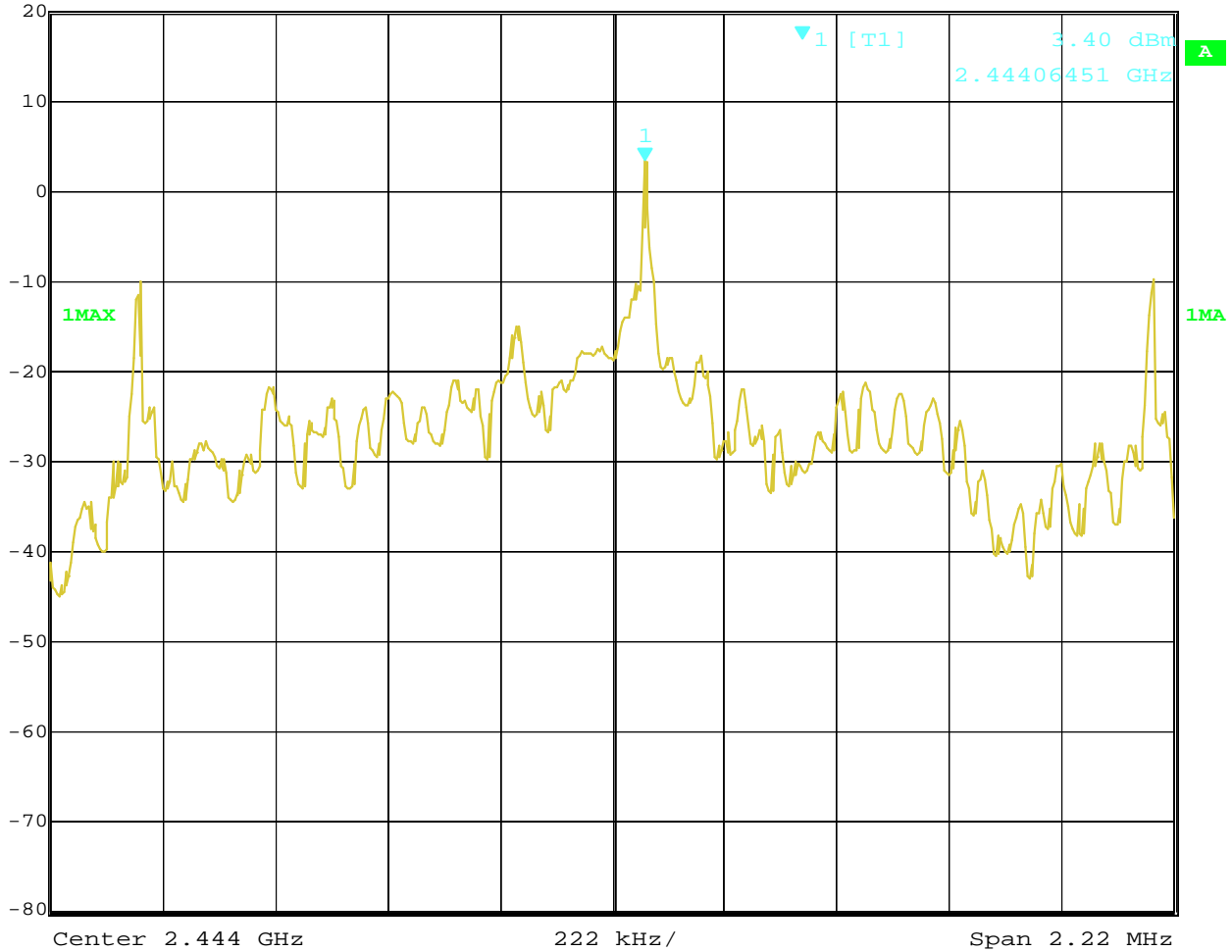
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2. Condition: Middle Channel



	Marker 1 [T1]	RBW	3 kHz	RF Att	30 dB
Ref Lvl	3.40 dBm	VBW	10 kHz		
20 dBm	2.44406451 GHz	SWT	620 ms	Unit	dBm



Date: 17.MAY.2022 11:38:55

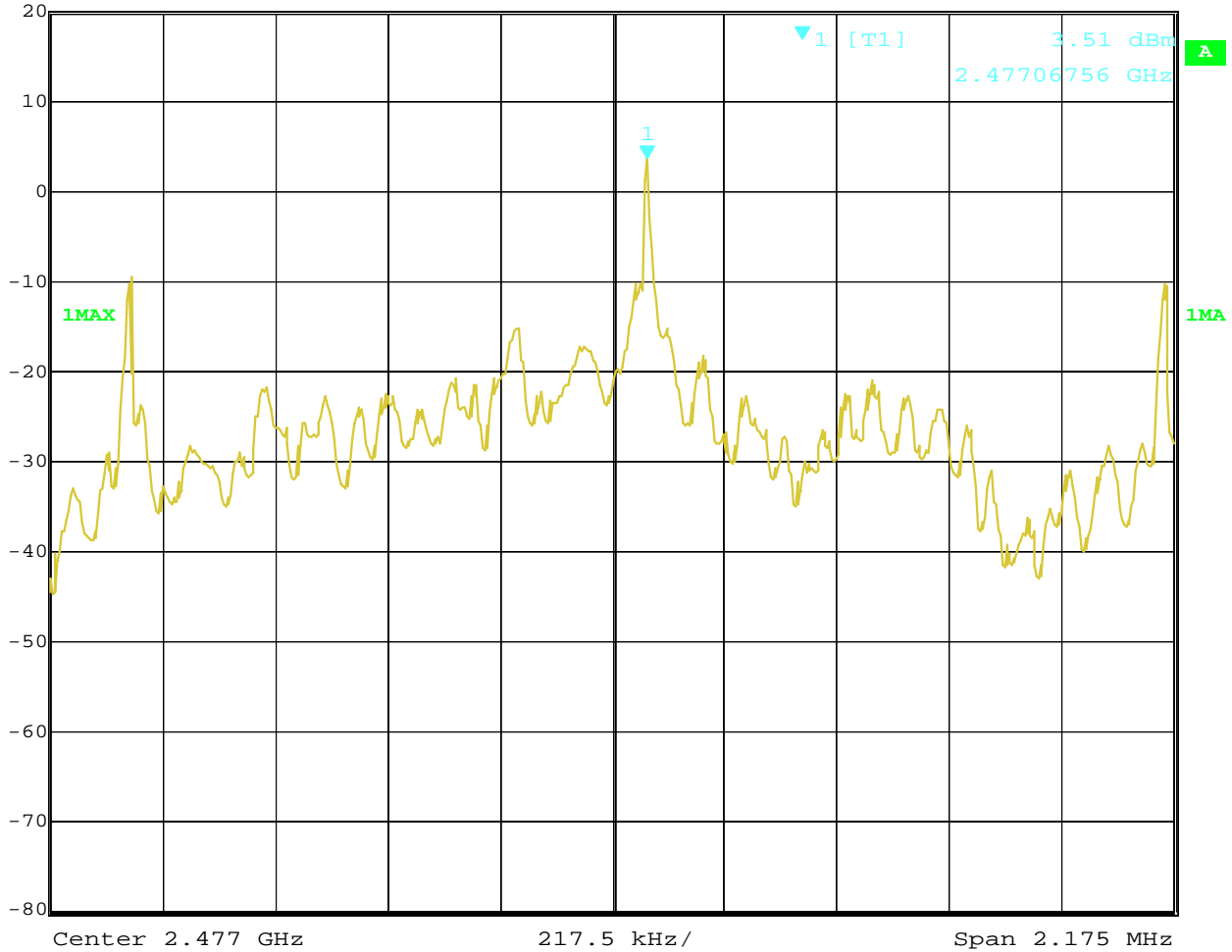
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3. High Channel



	Marker 1 [T1]	RBW	3 kHz	RF Att	30 dB
Ref Lvl	3.51 dBm	VBW	10 kHz		
20 dBm	2.47706756 GHz	SWT	620 ms	Unit	dBm



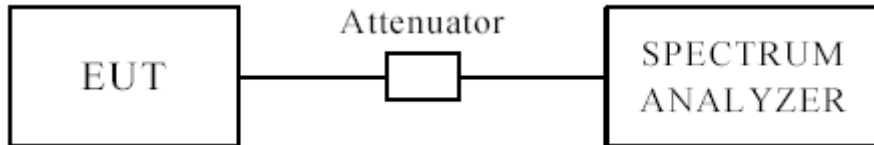
Date: 17.MAY.2022 11:23:24

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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

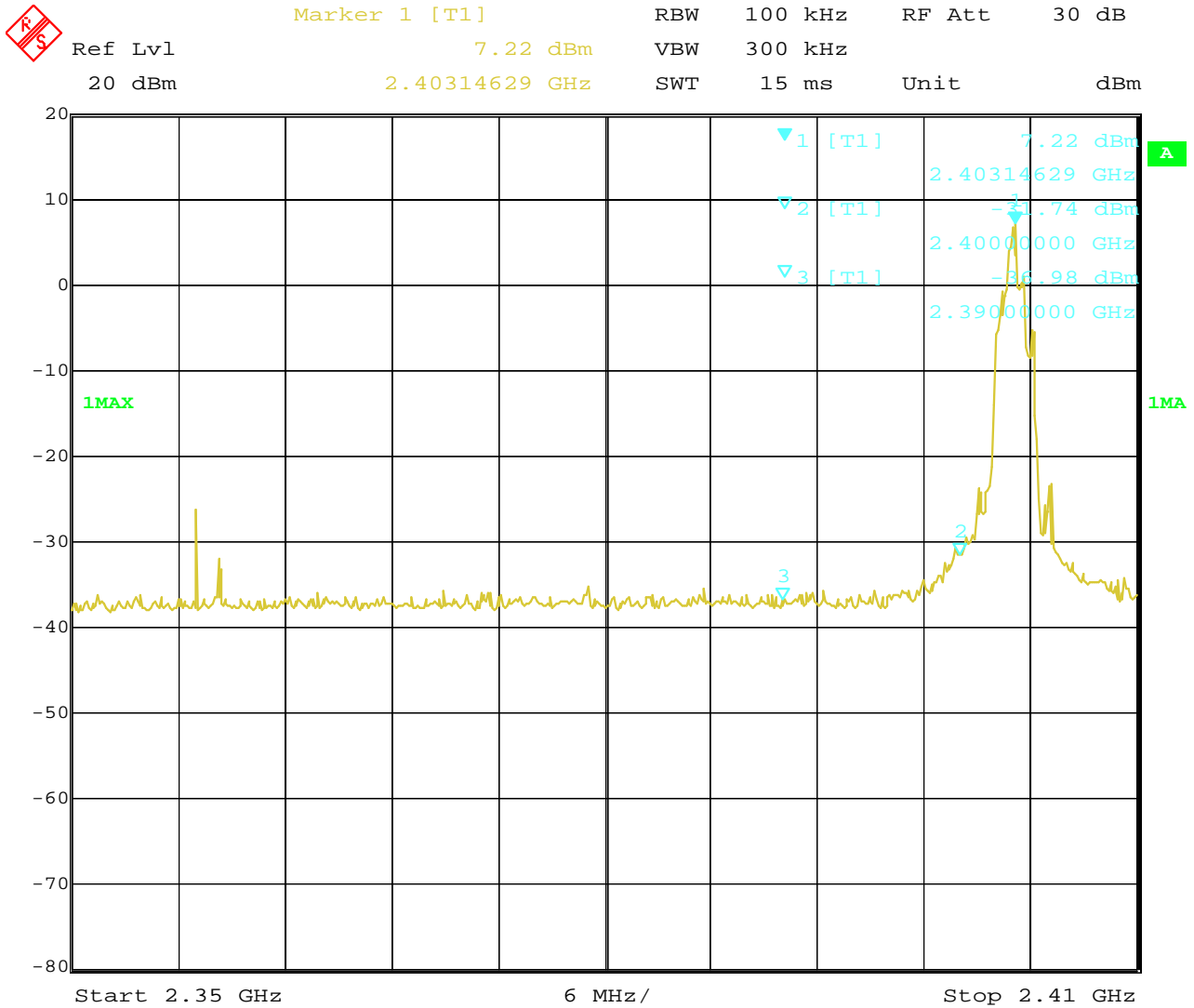
Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.
2. ANT1 and ANT 2 were tested and only the worst case was recorded in the test report and ANT1 was the worst case



10.4 Band-edge Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 11.MAY.2022 15:31:00

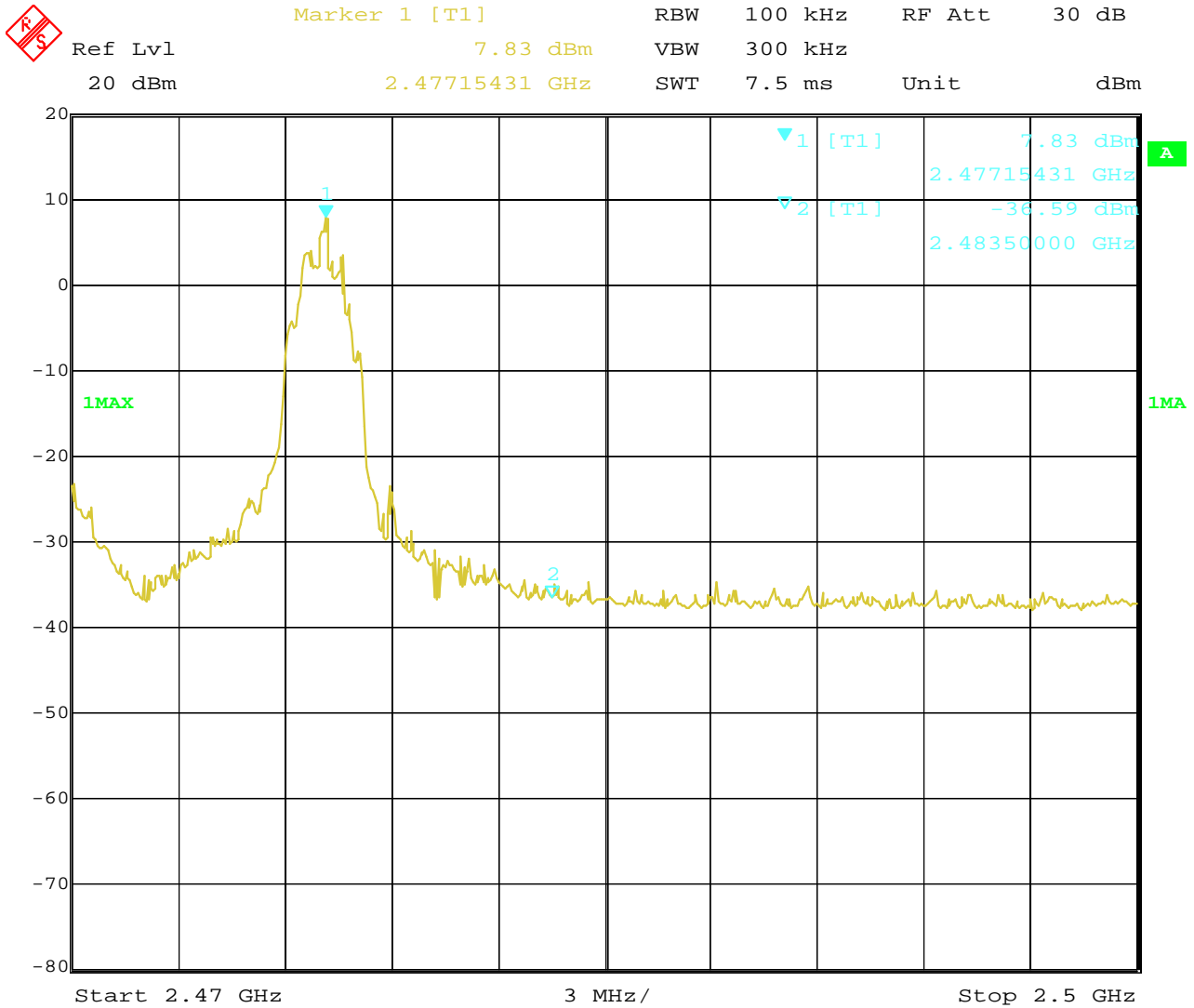
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10.4 Band-edge Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



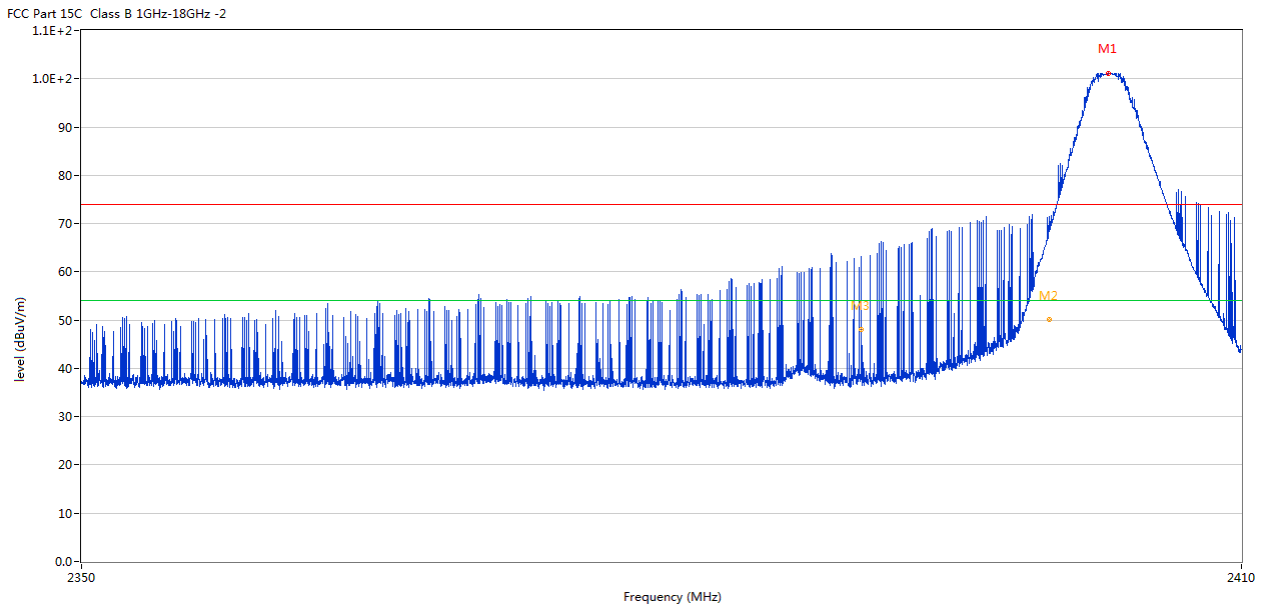
Date: 14.MAY.2022 15:45:10

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10.4 Restrict Band Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.027	101.17	-3.57	74.0	27.17	Peak	360.00	100	Horizontal	N/A
2	2399.938	71.47	-3.57	74.0	-2.53	Peak	360.00	100	Horizontal	Pass
2**	2399.938	50.07	-3.57	54.0	-3.93	AV	360.00	100	Horizontal	Pass
3	2390.160	63.16	-3.53	74.0	-10.84	Peak	360.00	100	Horizontal	Pass
3**	2390.160	48.14	-3.53	54.0	-5.86	AV	360.00	100	Horizontal	Pass

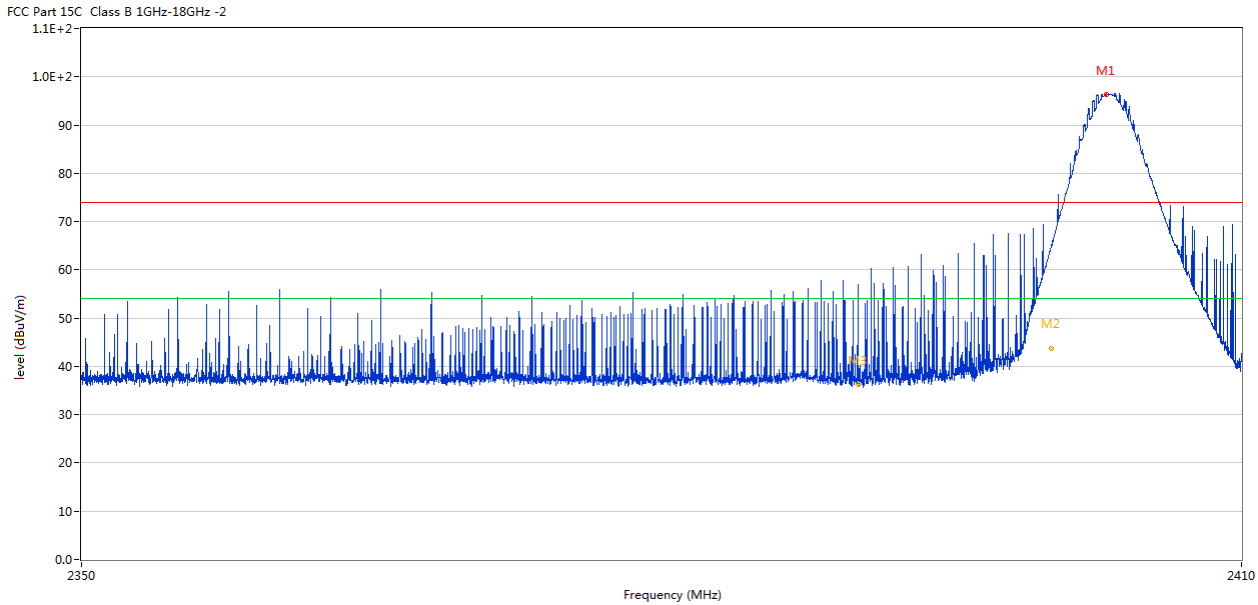
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.952	96.24	-3.57	74.0	22.24	Peak	23.00	100	Vertical	N/A
2	2400.057	64.92	-3.57	74.0	-9.08	Peak	23.00	100	Vertical	Pass
2**	2400.057	43.81	-3.57	54.0	-10.19	AV	23.00	100	Vertical	Pass
3	2389.995	57.04	-3.53	74.0	-16.96	Peak	17.00	100	Vertical	Pass
3**	2389.995	36.28	-3.53	54.0	-17.72	AV	17.00	100	Vertical	Pass

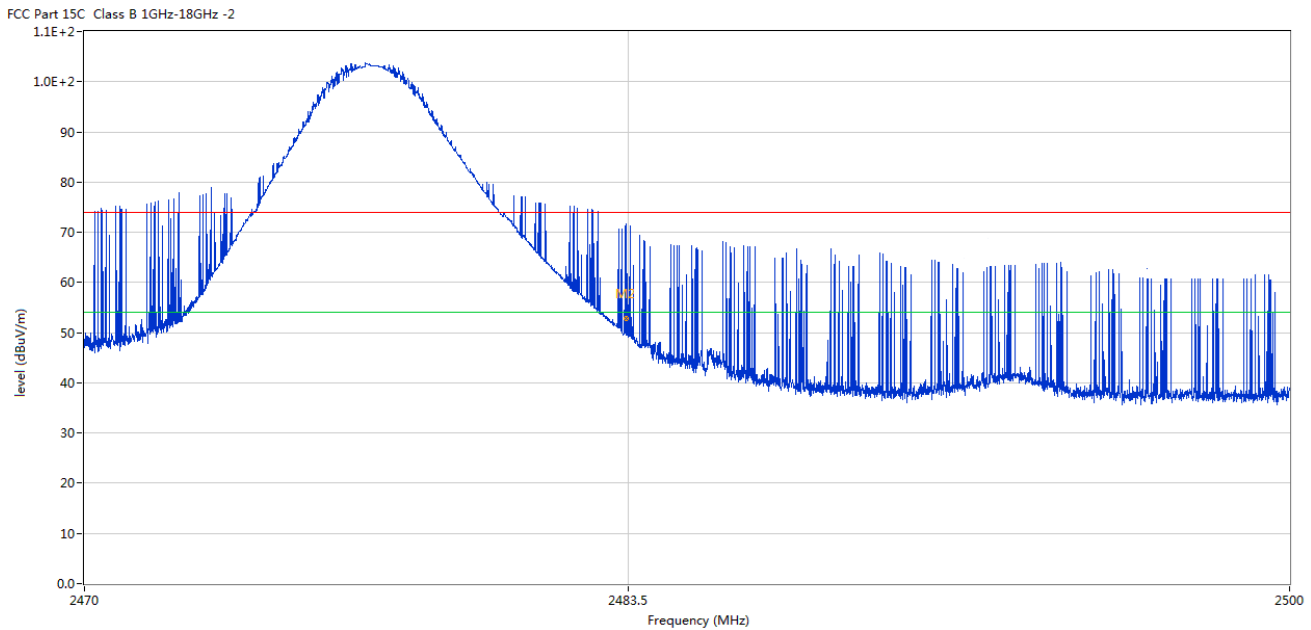
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



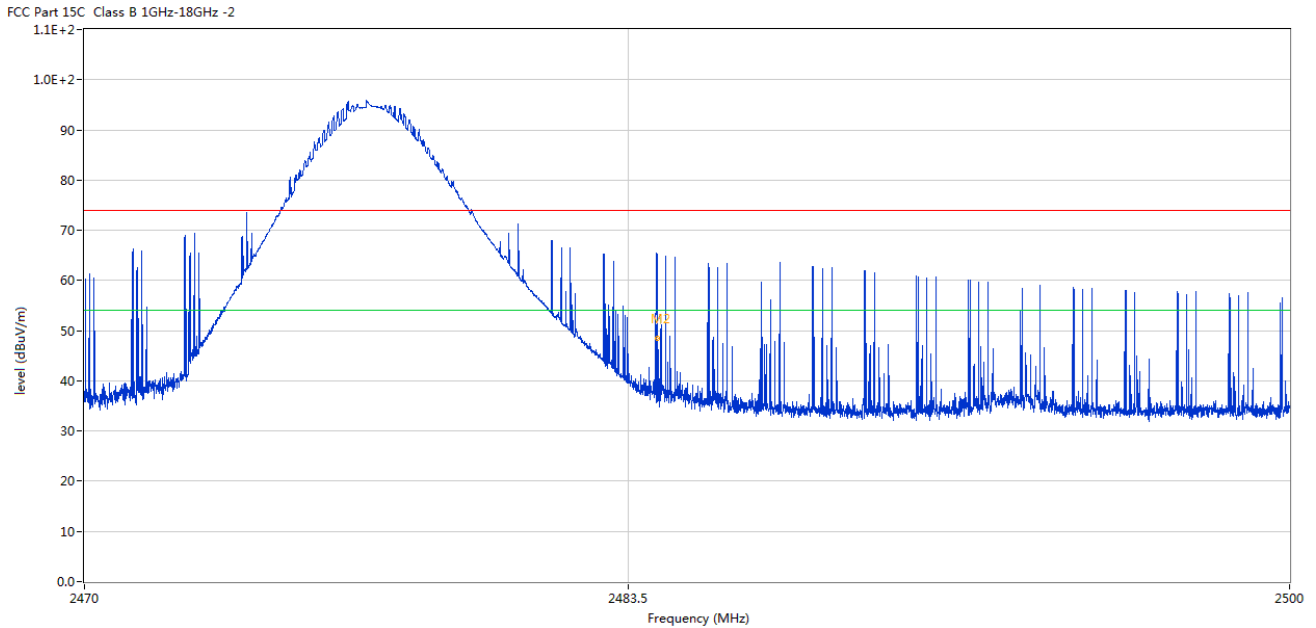
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2476.958	103.75	-3.57	74.0	29.75	Peak	7.00	100	Horizontal	N/A
2	2483.452	72.02	-3.57	74.0	-1.98	Peak	2.00	100	Horizontal	Pass
2**	2483.452	52.91	-3.57	54.0	-1.09	AV	2.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Wired and Wireless headset	Model	H818
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2476.981	96.01	-3.57	74.0	22.01	Peak	360.00	100	Vertical	N/A
2	2484.522	67.16	-3.57	74.0	-6.84	Peak	359.00	100	Vertical	Pass
2**	2484.522	47.99	-3.57	54.0	-6.01	AV	359.00	100	Vertical	Pass

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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

Two PCB antenna used. The gain of the antennas is 2.4dBi for each one (Get from the antenna specification). The two antennas cannot transmit Simultaneously.

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12.0 FCC ID Label

FCC ID: TUVET-9101

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:

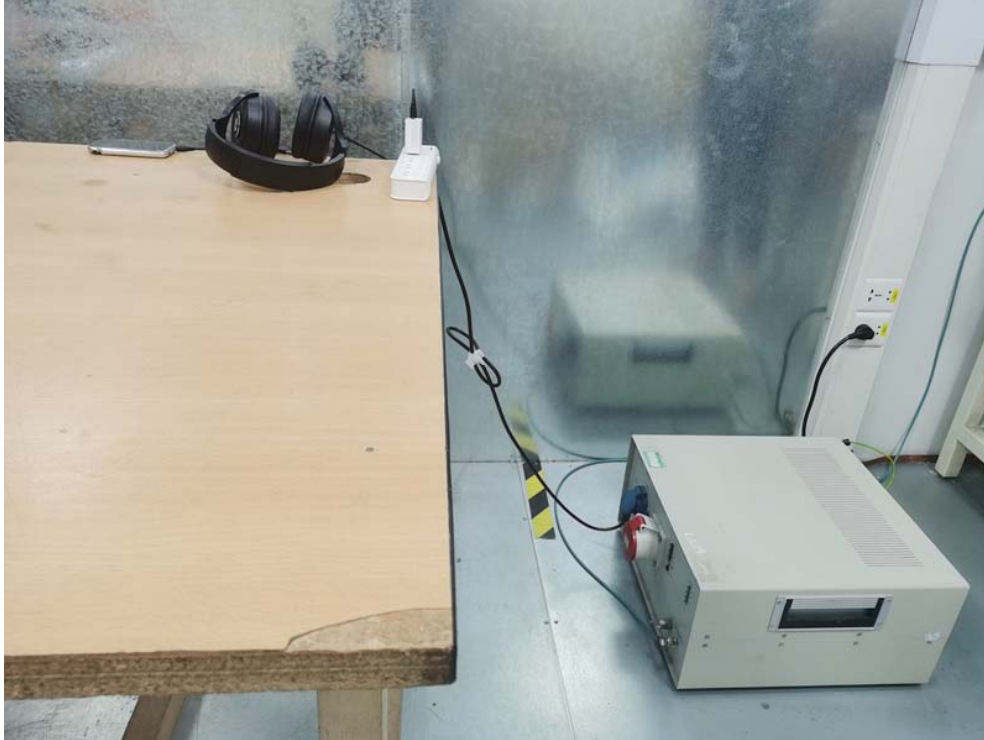


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13.0 Photo of testing

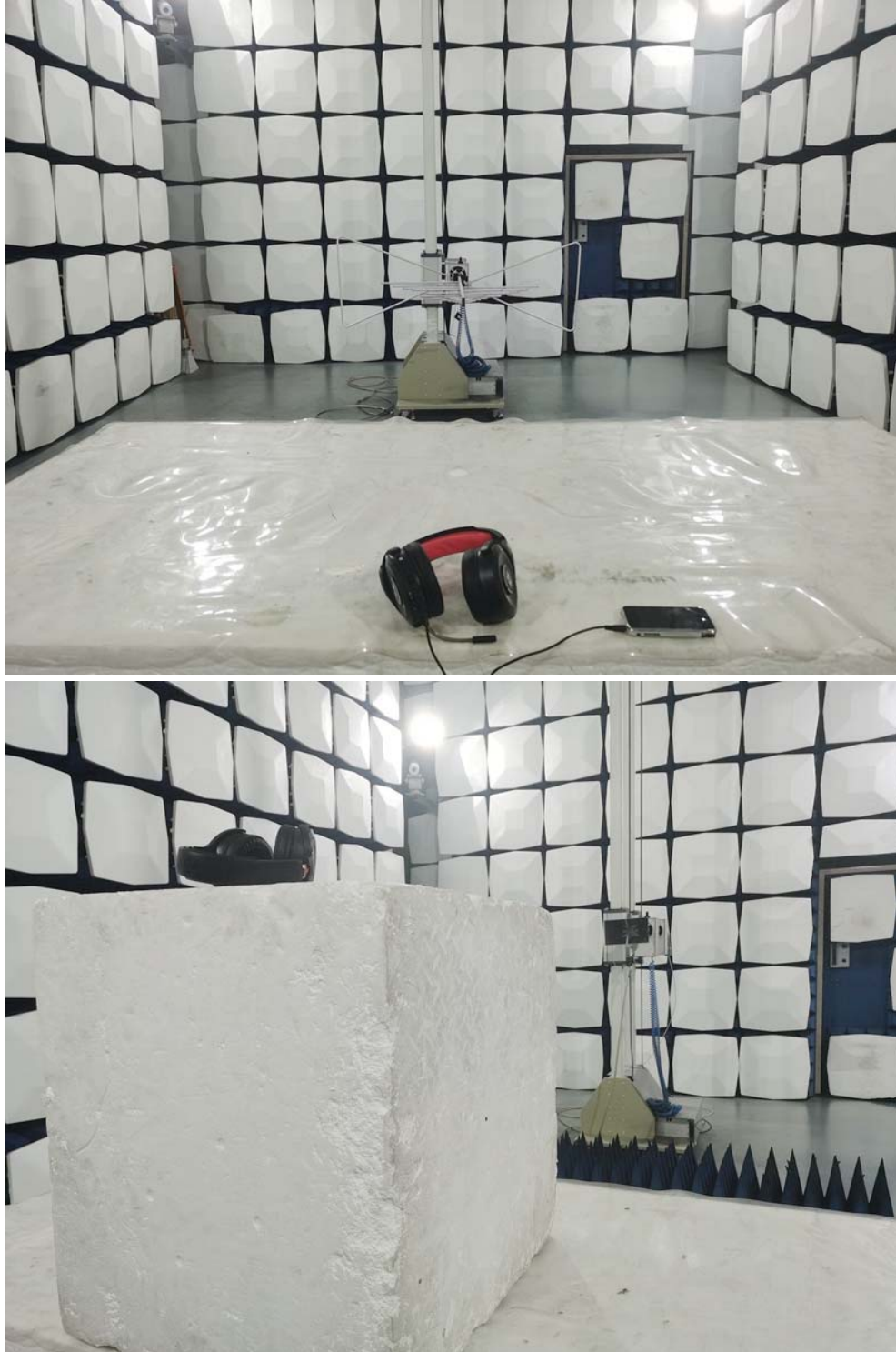
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Photographs – EUT

Outside View



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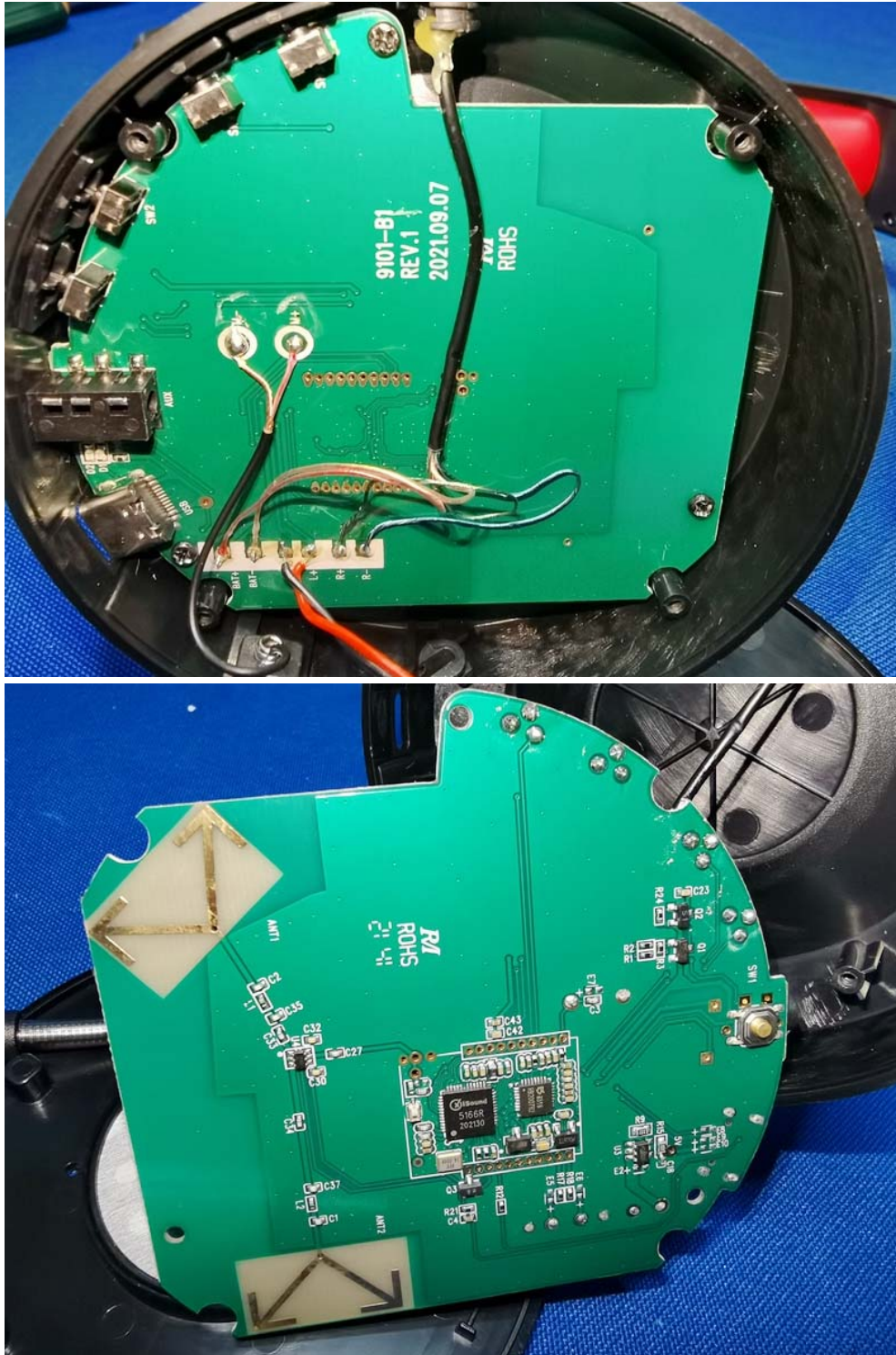


Outside View



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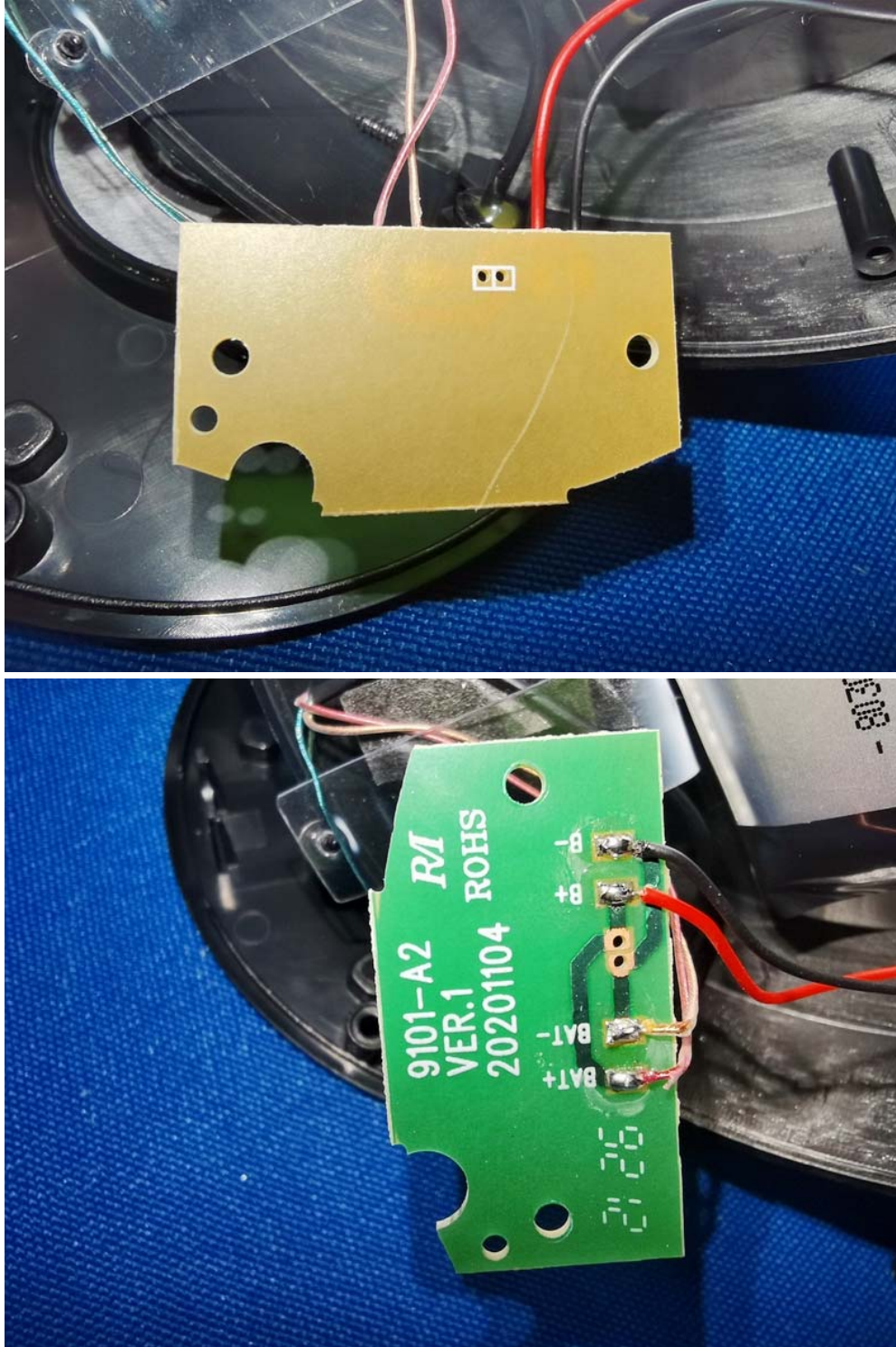
Inside view



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Inside view



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Inside view



End of the report

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