

CTC Laboratories, Inc.

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TEST	KI	E۲	U	K	

Report No.: CTC20200078E04

FCC ID-----: PADWF141

Applicant-----: Wahoo Fitness L.L.C.

Address..... 90 W. Wieuca Road #110, Atlanta, GA 30342, United States

Manufacturer·····: Wahoo Fitness L.L.C.

Address·····: 90 W. Wieuca Road #110, Atlanta, GA 30342, United States

Product Name·····: **ELEMNT BOLTV2**

Trade Mark·····: N/A

Model/Type reference······: WFCC5

Listed Model(s) ····· N/A

Standard----:: FCC CFR Title 47 Part 15 Subpart C Section 15.249

Date of receipt of test sample...: Jan. 20, 2021

Date of testing..... Jan. 21, 2021 ~ Jun. 09, 2021

Date of issue.....: Jun. 09, 2021

Result....: **PASS**

Compiled by:

(Printed name+signature) Terry Su Terry Su Miller Ma

Supervised by:

(Printed name+signature) Miller Ma

Approved by:

Walter Chen (Printed name+signature)

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

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Address.....

Shenzhen, Guangdong, China

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3.5.

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.249</u>: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

RSS-210: Licence-Exempt Radio Apparatus: Category I Equipment

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	Jun. 09, 2021	Original





1.3. Test Description

Test Item	Section in CFR 47	RSS-210	Result	Test Engineer
AC Power Line Conducted Emissions	15.207	RSS-Gen 8.8	PASS	Hymer Gao
20dB Occupied Bandwidth	15.215/15.249	1	PASS	Rod Luo
Field strength of the Fundamental signal	15.249(a)	RSS-210 F.1.a	PASS	Terry Su
Spurious Emissions	15.209/15.249(a)	RSS-210 F.1.e	PASS	Terry Su
Band edge Emissions	15.205/15.249(d)	1	PASS	Terry Su
Antenna requirement	15.203	1	PASS	Terry Su

Note: The measurement uncertainty is not included in the test result.

[&]quot;N/A" This device is only powered battery, no need for part 15.207.

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1.4. Test Facility

Address of the report laboratory

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:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025:2017 General Requirements) f or the Competence of Testing and Calibration Laboratories.

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 Indus try 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 (F CC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour 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.

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



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 3.20 dB (1) Radiated Emissions 30~1000MHz 4.70 dB (1) Radiated Emissions 1~18GHz 5.00 dB (1) Radiated Emissions 18~40GHz 5.54 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

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Wahoo Fitness L.L.C.
Address:	90 W. Wieuca Road #110, Atlanta, GA 30342, United States
Manufacturer:	Wahoo Fitness L.L.C.
Address:	90 W. Wieuca Road #110, Atlanta, GA 30342, United States
Factory	East West Industries Vietnam LLC
Address:	NO.27, Street 2, VSIP 2, Hoa Phu Ward, Thu Dau Mot City, Binh Duong Province, Vietnam

2.2. General Description of EUT

Product Name:	ELEMNT BOLTV2	
Trade Mark:	N/A	
Model/Type reference:	WFCC5	
Listed Model(s):	N/A	
Power supply:	5Vdc from USB Cable 3.85Vdc from 1600mAh Li-ion Battery	
Hardware version:	N/A	
Software version:	N/A	
ANT+ Specification		
Modulation:	GFSK	
Bit Rate of Transmitter:	1Mbps	
Operation frequency:	2457MHz	
Antenna type:	Metal Antenna	
Antenna gain:	3.14dBi	

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2.3. Description of Test Modes

The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)	
01	2457	

Test Mode:

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit. (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with 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.

2.4. Accessory Equipment Information

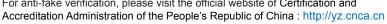
Equipment Information						
Name	Model	S/N	Manufacturer			
Notebook	X220	R9-NCMYL 12/04	Lenovo			
AC/DC Adapter	TPA-46050100VU		TIANYIN			
Cable Information						
Name	Shielded Type	Ferrite Core	Length			
Type-C	With	Without	0.8M			
Test Software Infor	Test Software Information					
Name	Software version	1	1			
1	1	1	1			



2.5. Measurement Instruments List

Tonsce	Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2021	
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021	
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021	
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021	
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021	
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021	
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021	
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021	
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021	
11	300328 v2.2.2 test system	TONSCEND	v2.6	I	1	

Radiate	Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021	
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021	
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021	
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021	
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021	
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021	
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021	
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021	
10	Antenna Mast	UC	UC3000	N/A	N/A	
11	Turn Table	UC	UC3000	N/A	N/A	
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021	
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX 102	DA1580	Dec. 25, 2021	
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021	
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021	
16	RF Connection Cable	Chengdu E-Microwave			Dec. 25, 2021	





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17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3		Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021

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

^{2.} The cable loss has calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. AC Power Line Conducted Emissions

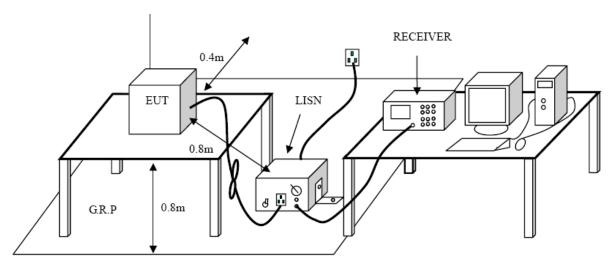
<u>Limit</u>

Fraguanov	Maximum RF Line Voltage (dBμV)					
Frequency	Quasi-peak Level	Average Level				
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

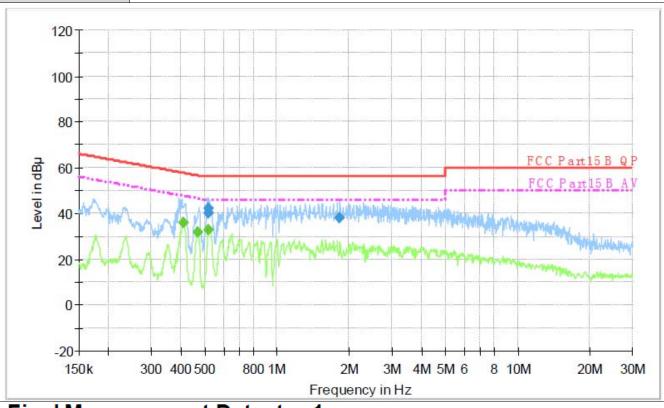
- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm 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 2.3



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



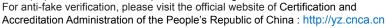
Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.517060	42.0	1000.00	9.000	On	L1	10.1	14.0	56.0	
0.521210	40.3	1000.00	9.000	On	L1	10.1	15.7	56.0	
1.825560	38.1	1000.00	9.000	On	L1	10.2	17.9	56.0	

Final Measurement Detector 2

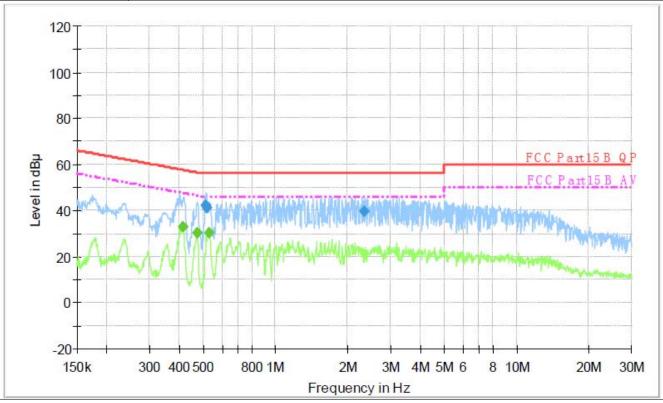
	Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Γ	0.408560	35.9	1000.00	9.000	On	L1	10.1	11.8	47.7	
Γ	0.469820	32.0	1000.00	9.000	On	L1	10.1	14.5	46.5	
Γ	0.521210	32.8	1000.00	9.000	On	L1	10.1	13.2	46.0	

Emission Level= Read Level+ Correct Factor





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
0.515000	42.4	1000.00	9.000	On	Ν	10.1	13.6	56.0	
0.519130	41.1	1000.00	9.000	On	N	10.1	14.9	56.0	
2.338220	39.7	1000.00	9.000	On	Ν	10.2	16.3	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.411830	33.1	1000.00	9.000	On	N	10.1	14.5	47.6	
0.471700	30.1	1000.00	9.000	On	Ν	10.1	16.4	46.5	
0.529600	30.4	1000.00	9.000	On	N	10.1	15.6	46.0	

Emission Level= Read Level+ Correct Factor

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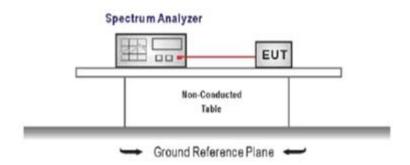


3.2. 20 dB Occupied Bandwidth

Limit

Operation frequency range 2400MHz~2483.5MHz.

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:

 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a test channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW

 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 2.3

Test Results

Channel	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Result
01	963.80	937.77	Pass







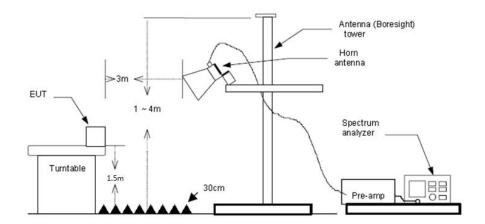
3.3. Radiated field strength of the fundamental signal

Limit

Fundamental frequency	Field strength of fundamental (millivolts/meter/ AVG)	Field strength of harmonics (microvolts/meter/ AVG)		
902-928 MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)		
2400-2483.5 MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)		
5725-5875 MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)		
24.0-24.25 GHz	250 (108dBuV/m @3m)	2500 (68dBuV/m @3m)		

Frequencies above 1000 MHz, the field strength limits are based on average limits

Test Configuration



Test Procedure

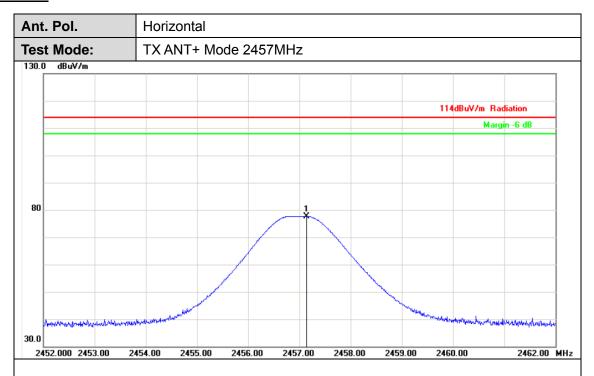
- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from 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.

Test Mode

Please refer to the clause 2.3



Test Results



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2457.140	-7.80	85.50	77.70	114.00	-36.30	peak

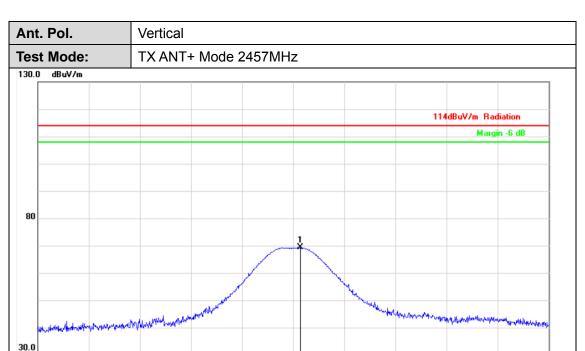
Remarks:

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

2.Margin value = Level -Limit value

2462.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2457.140	-7.80	77.15	69.35	114.00	-44.65	peak

Remarks:

2452.000 2453.00

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

2.Margin value = Level -Limit value

2454.00



3.4. Radiated Spurious Emissions and Bandedge Emission

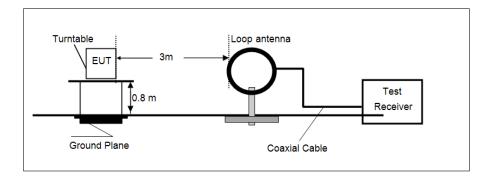
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

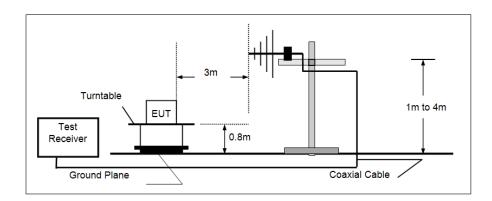
Frequency	Limit (dBuV/m @3m)	Value	
30MHz~88MHz	40.00	Quasi-peak	
88MHz~216MHz	43.50	Quasi-peak	
216MHz~960MHz	46.00	Quasi-peak	
960MHz~1GHz	54.00	Quasi-peak	
Above 1CLIz	54.00	Average	
Above 1GHz	74.00	Peak	

Test Configuration

9 kHz ~ 30 MHz

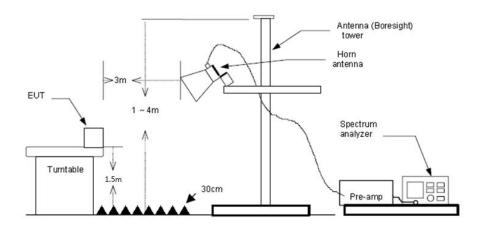


30 MHz ~ 1 GHz



Above 1 GHz





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 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. 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.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings
 Span shall wide enough to fully capture the emission being measured;
 (1)Below 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.

(2)From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode:

Please refer to the clause 2.3

Test Results

Radiated Spurious Emissions

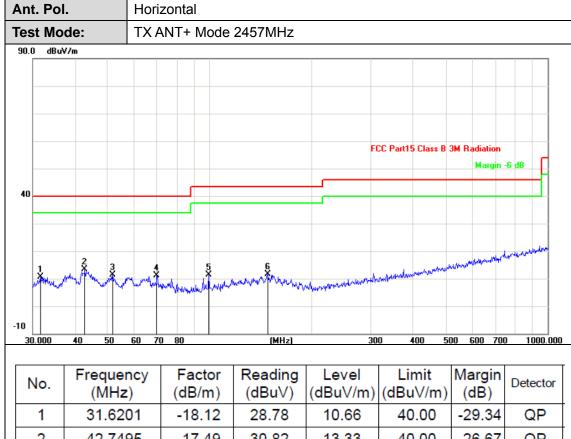
■ 9 kHz ~ 30 MHz

The EUT was pre-scanned the frequency band (9 kHz \sim 30 MHz), found the radiated level lower than the limit, so don't show on the report.

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■ 30 MHz ~ 1 GHz



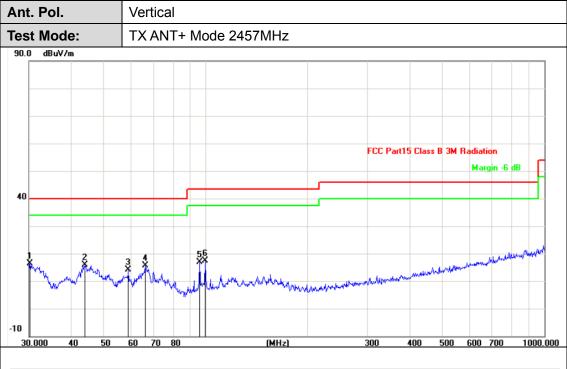
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.6201	-18.12	28.78	10.66	40.00	-29.34	QP
2	42.7495	-17.49	30.82	13.33	40.00	-26.67	QP
3	51.6615	-17.90	29.30	11.40	40.00	-28.60	QP
4	69.8449	-20.38	31.54	11.16	40.00	-28.84	QP
5	99.5281	-21.01	32.34	11.33	43.50	-32.17	QP
6	148.9624	-16.85	28.49	11.64	43.50	-31.86	QP

Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2111	-18.17	34.67	16.50	40.00	-23.50	QP
2	43.9658	-17.59	33.49	15.90	40.00	-24.10	QP
3	59.0251	-18.43	32.51	14.08	40.00	-25.92	QP
4	66.2662	-19.70	35.32	15.62	40.00	-24.38	QP
5	95.7622	-21.27	38.12	16.85	43.50	-26.65	QP
6	99.5281	-21.01	38.33	17.32	43.50	-26.18	QP

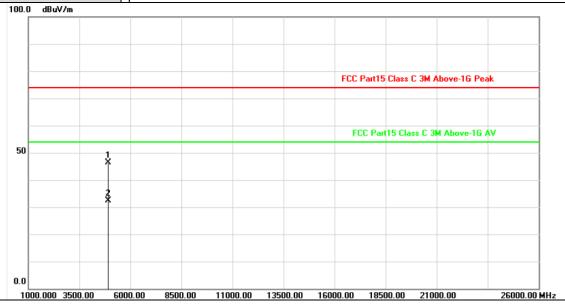
Remarks:

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



Above 1 GHz

Ant. Pol.	Horizontal
Test Mode:	TX ANT+ Mode 2457MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.
100.0 dBuV/m	



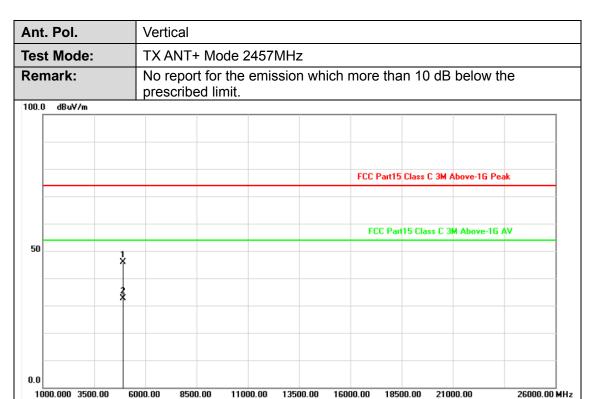
No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)	l .	Margin (dB)	Detector
1	4914.174	-2.51	48.80	46.29	74.00	-27.71	peak
2	4914.730	-2.51	34.82	32.31	54.00	-21.69	AVG

Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4914.088	-2.51	48.31	45.80	74.00	-28.20	peak
2	4914.314	-2.51	35.07	32.56	54.00	-21.44	AVG

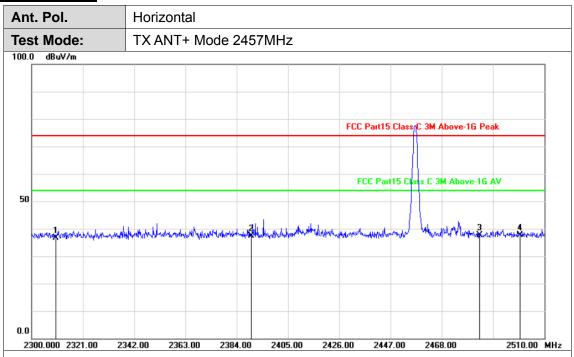
Remarks:

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

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Bandedge Emission



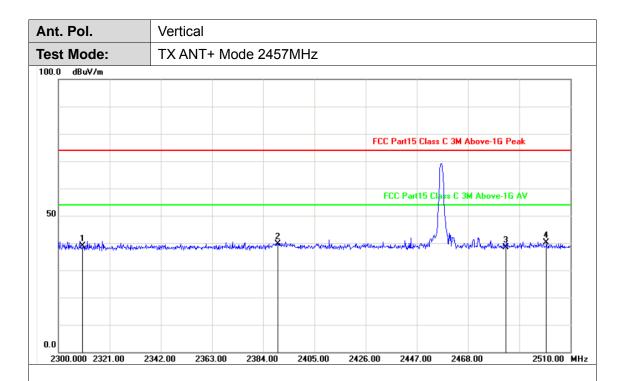
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.000	-8.47	45.08	36.61	74.00	-37.39	peak
2	2390.000	-8.10	45.53	37.43	74.00	-36.57	peak
3	2483.500	-7.68	45.33	37.65	74.00	-36.35	peak
4	2500.000	-7.60	45.16	37.56	74.00	-36.44	peak

Remark:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.000	-8.47	47.24	38.77	74.00	-35.23	peak
2	2390.000	-8.10	47.69	39.59	74.00	-34.41	peak
3	2483.500	-7.68	46.16	38.48	74.00	-35.52	peak
4	2500.000	-7.60	47.66	40.06	74.00	-33.94	peak

Remark:

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

2.Margin value = Level -Limit value

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3.5. 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 anantenna 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.

(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.





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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: http://yz.cnca.cn