



Test Report No.: RF190730N036



TEST REPORT



Applicant	ShadowTrack Technologies, Inc.
Address	Cypress Bend Office Building, 1001 Ochsner Blvd Suite 425A, Covington, LA. 70433, USA

Manufacturer or Supplier	Shenzhen Xexun Technology Co.,Ltd
Address	F/7, Guangrong Building, MeiHua Rd., ShangMei lin, FuTian District, ShenZhen, China
Product	WIRELESS CHARGER
Brand Name	SHADOWTRACK
Model	ShadoWatch WLC00119
Additional Model & Model Difference	N/A
Date of tests	Jul. 30, 2019 ~ Aug. 15, 2019

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

FCC Part 15, Subpart C

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Aug. 26, 2019

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**BUREAU
VERITAS**

Test Report No.: RF190730N036

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190730N036	Original release	Aug. 26, 2019



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used.
§15.207	AC Power Conducted Emission	N/A	Power by Battery
§15.209	Radiated Emission	PASS	Meet the requirement of limit.
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.76dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	WIRELESS CHARGER
MODEL NO.	ShadoWatch WLC00119
ADDITIONAL MODEL	N/A
FCC ID	2ARH7-SG-001-19
POWER SUPPLY	DC3.7V from Battery, Battery Charging: DC 5V from USB Host Unit
MODULATION TYPE	ASK
OPERATING FREQUENCY	110KHz ~ 206KHz
ANTENNA TYPE	Coil Antenna
CABLE SUPPLIED	USB cable: unshielded detachable 1.0m

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 190730N036) for detailed product photo.
4. When the EUT charging that RF function can't working, the charging mode was tested in the FCC VOC report.(report no.: FV190730N036)



3.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes the final worst mode was marked in boldface and recorded in this report.

TEST FREQUENCY	TEST MODE	TEST VOLTAGE
174.5248KHz	Transmitting	DC 3.7V from fully Battery
123.6393KHz	Standby	

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	ShadoWatch	Shadowtrack	SG-001-18	NA	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A



4 EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



4.1.2 TEST INSTRUMENTS

FREQUENCY 9KHz-30MHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 12,19	Mar. 11,20
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 28,19	May 27,20
Amplifier	Burgeon	BPA-530	100210	Apr. 21,19	Apr. 20,20
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A	N/A

- NOTES:**
1. The test was performed in 10m Chamber.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

FOR FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU26	100005	Oct. 24,18	Oct. 23,19
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 12,19	Mar. 11,20
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 10, 18	Nov. 09, 19
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 10, 18	Dec. 09, 19
Preamplifier	EMCI	EMC1135	980378	Mar. 19,19	Mar. 18,20
Preamplifier	EMCI	EMC1135	980423	Mar. 19,19	Mar. 18,20
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Feb. 10,19	Feb. 09,20
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A	N/A

- NOTES:**
1. The test was performed in 10m Chamber.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.



4.1.3 TEST PROCEDURE

< Below 30MHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

<30MHz~1GHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. Margin value = Emission level – Limit value.

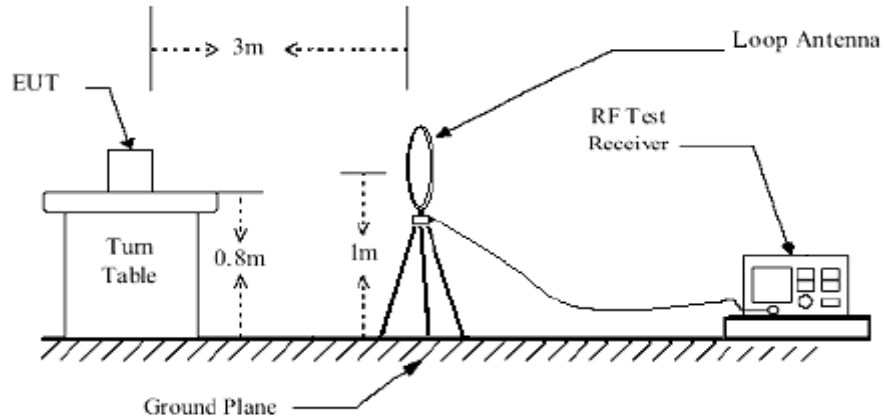
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

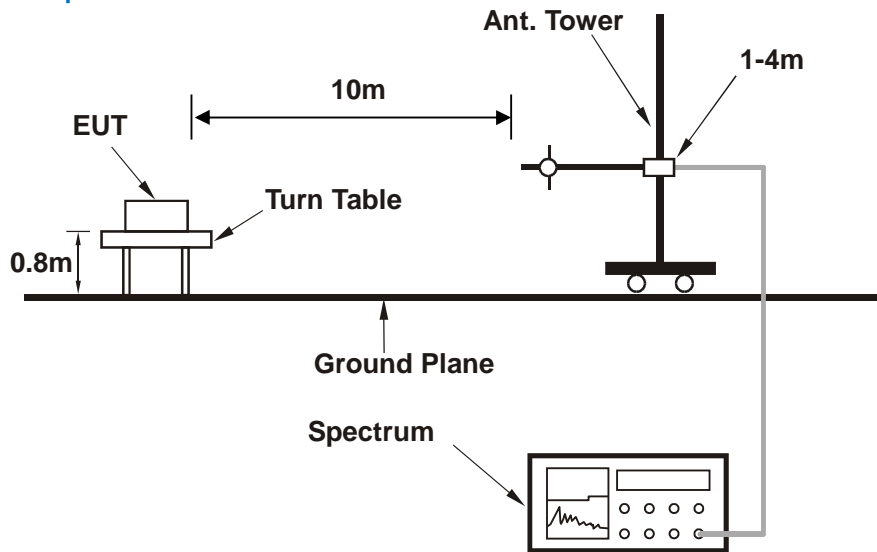


4.1.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Turn on the power supply of the EUT.
- b. EUT was operated according to the type description in manufacturer’s specifications or the User's Manual.

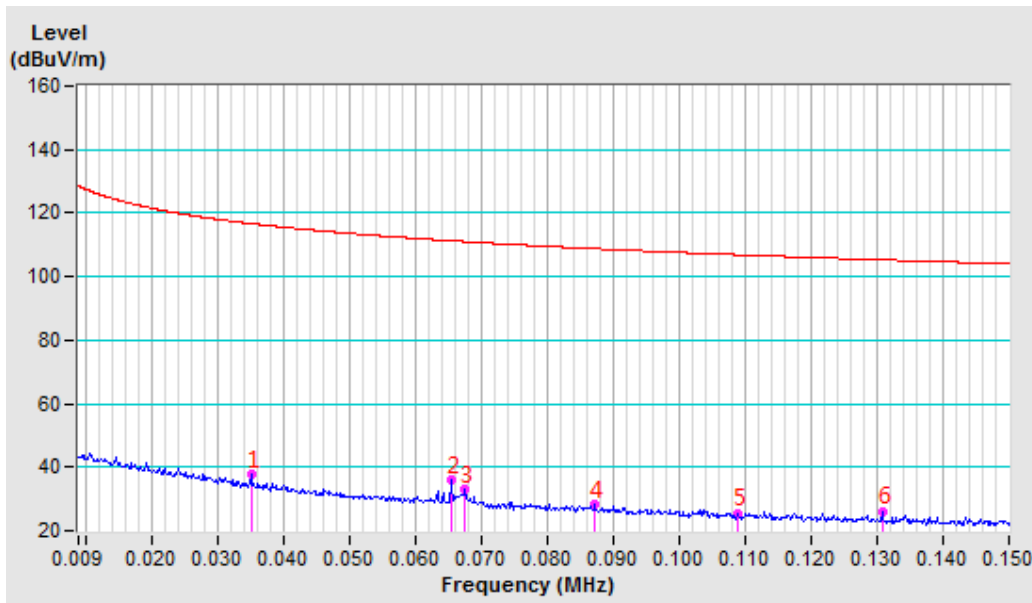


4.1.7 TEST RESULTS

TEST MODE	Transmitting	FREQUENCY RANGE	9 -150KHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 3M								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.03520	-11.72	49.33	37.61	116.66	-79.05	100	239
2	0.06540	-11.75	47.75	36.00	111.29	-75.29	100	130
3	0.06750	-11.74	44.76	33.02	111.02	-78.00	100	139
4	0.08720	-11.66	39.97	28.31	108.79	-80.48	100	228
5	0.10900	-11.57	37.16	25.59	106.85	-81.26	100	124
6	0.13090	-11.50	37.73	26.23	105.26	-79.03	100	115

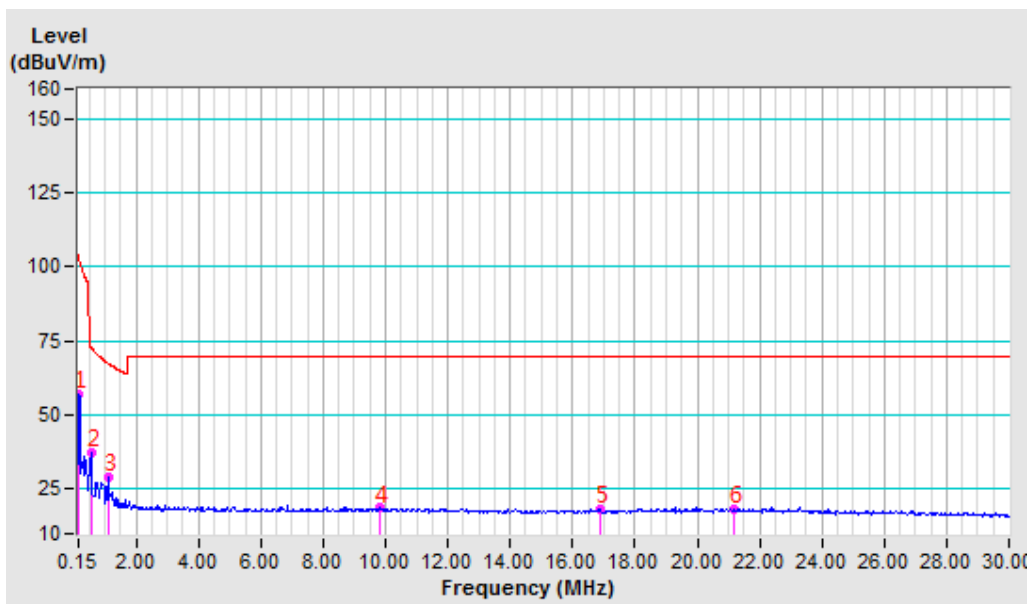
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Transmitting	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 3M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.17390	-11.42	68.55	57.13	102.80	-45.67	100	166
2	0.55300	-11.38	48.53	37.15	72.85	-35.70	100	94
3	1.10520	-11.03	40.30	29.27	67.39	-38.12	100	286
4	9.78900	-10.65	29.29	18.64	69.54	-50.90	100	206
5	16.90270	-10.54	28.66	18.12	69.54	-51.42	100	339
6	21.16100	-10.07	28.60	18.53	69.54	-51.01	100	360

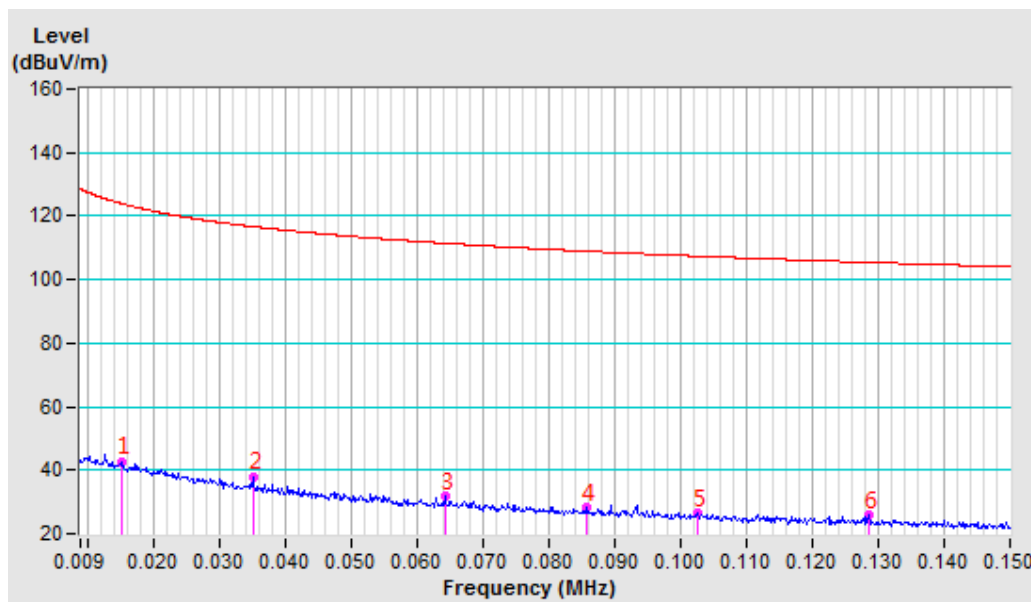
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.15-30MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Transmitting	FREQUENCY RANGE	9 -150KHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: PERPENDICULAR AT 3M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.01540	-11.30	53.95	42.65	123.87	-81.22	100	318
2	0.03520	-11.72	49.70	37.98	116.68	-78.70	100	316
3	0.06430	-11.76	43.47	31.71	111.44	-79.73	100	117
4	0.08590	-11.67	39.77	28.10	108.92	-80.82	100	176
5	0.10260	-11.59	38.12	26.53	107.38	-80.85	100	202
6	0.12860	-11.51	37.34	25.83	105.42	-79.59	100	360

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.



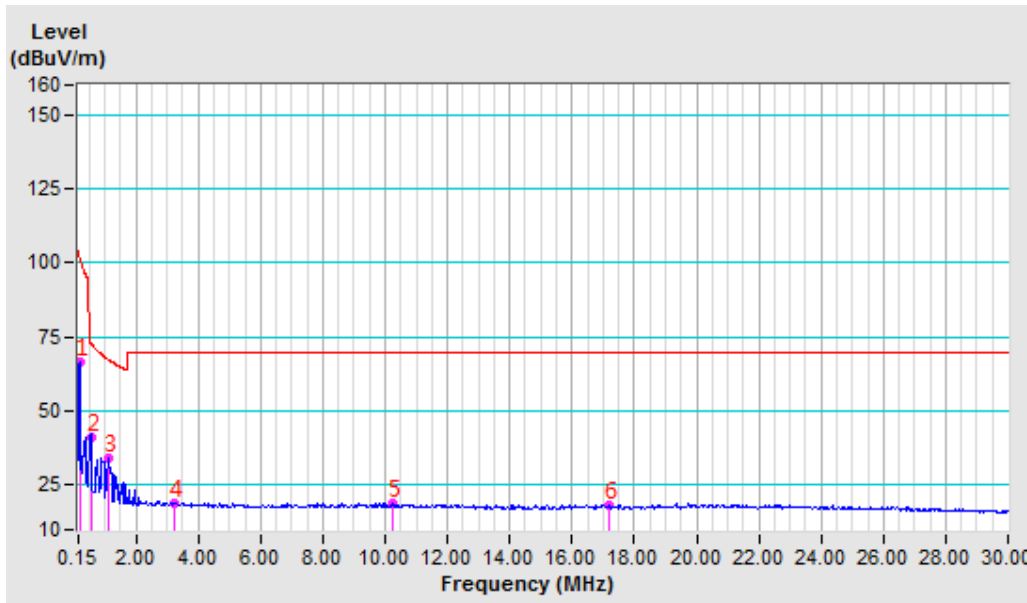


Test Report No.: RF190730N036

TEST MODE	Transmitting	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: PERPENDICYLARL AT 3M								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.19330	-11.40	78.00	66.60	101.88	-35.28	100	229
2	0.58430	-11.31	52.52	41.21	72.41	-31.20	100	282
3	1.09930	-11.03	45.47	34.44	67.43	-32.99	100	13
4	3.23370	-10.85	30.05	19.20	69.54	-50.34	100	6
5	10.22190	-10.64	29.61	18.97	69.54	-50.57	100	252
6	17.16090	-10.51	28.75	18.24	69.54	-51.30	100	294

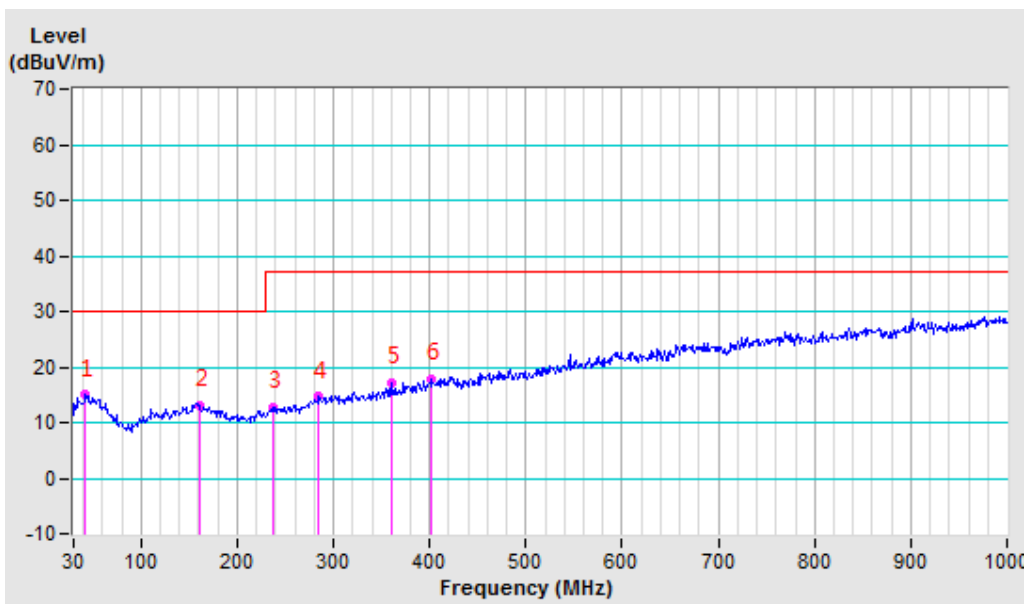
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.15-30MHz
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Transmitting	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	42.125	-17.27	32.22	14.95	30.00	-15.05	200	241
2	160.708	-16.67	29.83	13.16	30.00	-16.84	200	194
3	236.610	-17.35	30.20	12.85	37.00	-24.15	400	329
4	284.383	-15.47	30.12	14.65	37.00	-22.35	400	43
5	360.406	-13.63	30.76	17.13	37.00	-19.87	200	70
6	401.631	-12.09	29.88	17.79	37.00	-19.21	200	138

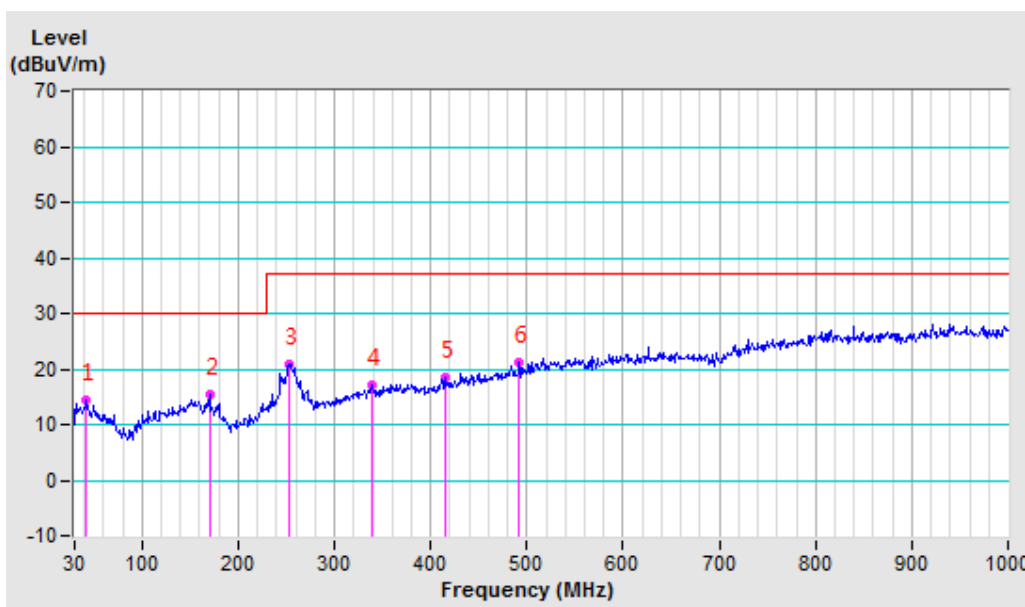
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Transmitting	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.7V from Battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH	TESTED BY: Vincent	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	42.708	-17.24	31.80	14.56	30.00	-15.44	300	165
2	170.221	-15.96	31.54	15.58	30.00	-14.42	300	88
3	252.335	-15.30	36.23	20.93	37.00	-16.07	100	206
4	338.815	-12.30	29.43	17.13	37.00	-19.87	300	20
5	414.818	-10.96	29.49	18.53	37.00	-18.47	100	88
6	491.937	-8.54	29.67	21.13	37.00	-15.87	100	347

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.





4.2 20DB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20DB BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 22,19	May 21,20
Power Sensor	Keysight	U2021XA	MY55060018	May 22,19	May 21,20
Power Meter	Anritsu	ML2495A	1139001	Mar. 12,19	Mar. 11,20
Power Sensor	Anritsu	MA2411B	1531155	Mar. 12,19	Mar. 11,20
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 17, 18	Oct.16, 19
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Nov.15,18	Nov. 14,19
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 09,18	Nov. 08,19
Signal Analyzer	Rohde & Schwarz	FSV7	102331	May 22,19	May 21,20
Signal Generator	Agilent	N5183A	MY50140980	Dec. 07,18	Dec. 06,19
Agile Signal Generator	Agilent	8645A	Agilent	Oct.27, 18	Oct.26, 19
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 12,19	Mar. 11,20
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec. 07, 18	Dec. 06, 19
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	May 20,19	May 19,20
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level.



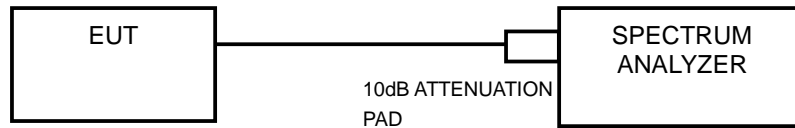
Record the frequency difference as the emission bandwidth.

- d. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITION

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.



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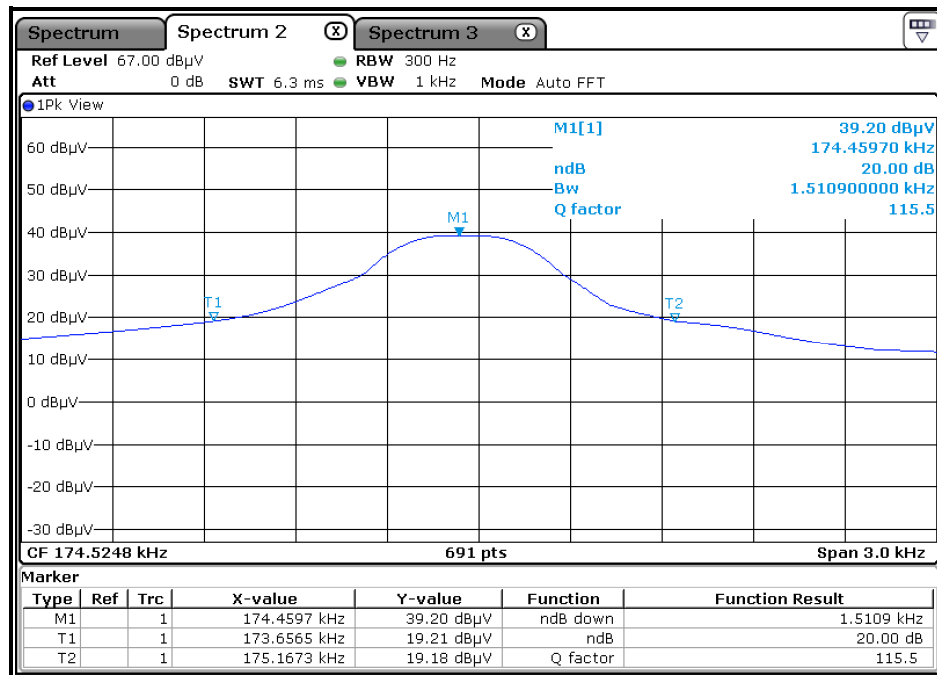
Test Report No.: RF190730N036

4.2.7 TEST RESULTS

TEST MODE	CHANNEL FREQUENCY (KHz)	20dB BANDWIDTH (KHz)
Transmitting	174.5248	1.5109

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	173.6565	PASS
Upper	175.1673	PASS

Test Data:



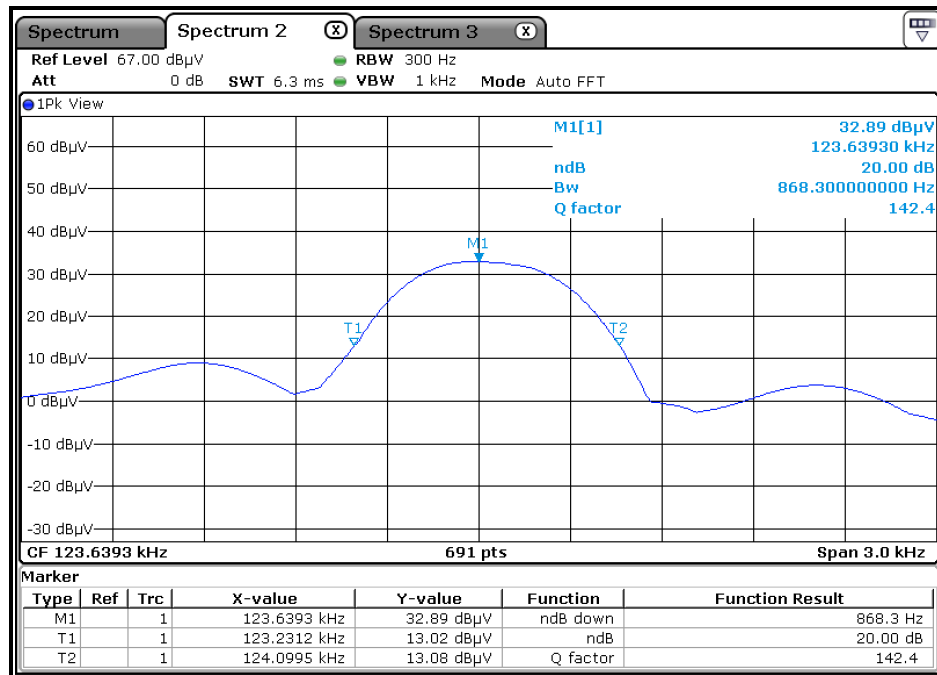


Test Report No.: RF190730N036

TEST MODE	CHANNEL FREQUENCY (KHz)	20dB BANDWIDTH (Hz)
Standby	123.6393	868.3

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	123.2312	PASS
Upper	124.0995	PASS

Test Data:





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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---