FCC TEST REPORT

For

SHENZHEN FENERGY TECHNOLOGY CO.,LTD

Qi Wireless Car Charger

Test Model: AT1435

Additional Model No.: Please Refer to Page 6

Prepared for	:	SHENZHEN FENERGY TECHNOLOGY CO.,LTD
Address	:	8/F king Dragon Temple Industrial Building A9, Fuyong Town, Baoan District,Shenzhen, Guangdong, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China
Tel	:	(+86)755-82591330
Fax	:	(+86)755-82591332
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	June 16, 2020
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	June 16, 2020 ~ June 18, 2020
Date of Report	:	June 23, 2020

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FCC TEST REPORT
FCC CFR 47 PART 18

Report Reference No.	**:**	**LCS200601096AEA**
Date Of Issue	:	June 23, 2020
Testing Laboratory Name.....	**:**	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name	**:**	**SHENZHEN FENERGY TECHNOLOGY CO.,LTD**
Address	:	8/F king Dragon Temple Industrial Building A9, Fuyong Town, Baoan District,Shenzhen, Guangdong, China
Test Specification		
Standard.....	:	FCC CFR 47 PART 18
Test Report Form No.	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	:	Dated 2011-03

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Test Item Description.....	**:**	**Qi Wireless Car Charger**
Trade Mark.....	:	Atomi
Test Model.....	:	AT1435
Power Supply	:	Input: 5V⎓2V; 9V⎓1.67A Output: 10W
Result	**:**	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Vera Deng	Jin Wang	Gavin Liang
Vera Deng/ File administrators	Jin Wang/ Technique principal	Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : **LCS200601096AEA**	June 23, 2020 Date of issue

Test Model.....	: AT1435
EUT.....	: Qi Wireless Car Charger
Applicant.....	**: SHENZHEN FENERGY TECHNOLOGY CO.,LTD**
Address.....	: 8/F king Dragon Temple Industrial Building A9, Fuyong Town, Baoan District,Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: SHENZHEN FENERGY TECHNOLOGY CO.,LTD**
Address.....	: 8/F king Dragon Temple Industrial Building A9, Fuyong Town, Baoan District,Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /
Factory.....	: **SHENZHEN FENERGY TECHNOLOGY CO.,LTD**
Address.....	: 8/F king Dragon Temple Industrial Building A9, Fuyong Town, Baoan District,Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
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Revision History

Revision	Issue Date	Revisions	Revised By
000	June 23, 2020	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Qi Wireless Car Charger
Test Model	:	AT1435
Additional Model No.:	:	AT1498, AT1532, 702508, 702508/AT1435
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	Input: 5V⎓2V; 9V⎓1.67A Output: 10W
Hardware Version	:	V8.0
Software Version	:	V8.0
Wireless Charging	:	
Operating Frequency	:	110.0~205.0KHz
Modulation Type	:	Continuous Wave
Antenna Type	:	Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Huawei	Mobile phone	FRD-AL10	FRD-AL10C00B373	SDOC

Note: The are only used test, not shipped

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Micro USB Port	1	USB Cable: 0.8m, unshielded

1.4 Description of Test Facility

FCC Registration Number is 254912.

Industry Canada Registration Number is 9642A.

EMSD Registration Number is ARCB0108.

UL Registration Number is 100571-492.

TUV SUD Registration Number is SCN1081.

TUV RH Registration Number is UA 50296516-001.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier: CN0071

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

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1.5 Statement of the 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 CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS 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.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

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

1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: CW (Continuous Wave)

Test Modes		
Mode 1	AC/DC Adapter (5V/2A) + EUT+ Mobile Phone (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter (5V/2A) + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter (5V/2A) + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested
Mode 4	PC Charger + EUT+ Mobile Phone (Battery Status: <1%)	Pre-tested
Mode 5	PC Charger + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 6	PC Charger + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

For AC conducted emission, pre-test at both AC charge from power adapter and PC modes, recorded worst case.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

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4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2020-06-10	2021-06-09
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
3	3m Full Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-06-11	2021-06-10
4	Positioning Controller	MF	MF-7082	/	2020-06-11	2021-06-10
5	EMI Test Software	AUDIX	E3	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2020-06-11	2021-06-10
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
10	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-11	2021-06-10
11	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-11	2021-06-10
12	EMI Test Receiver	R&S	ESPI	101840	2020-06-10	2021-06-09
13	Artificial Mains	R&S	ENV216	101288	2020-06-11	2021-06-10
14	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-10	2021-06-09
Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.						

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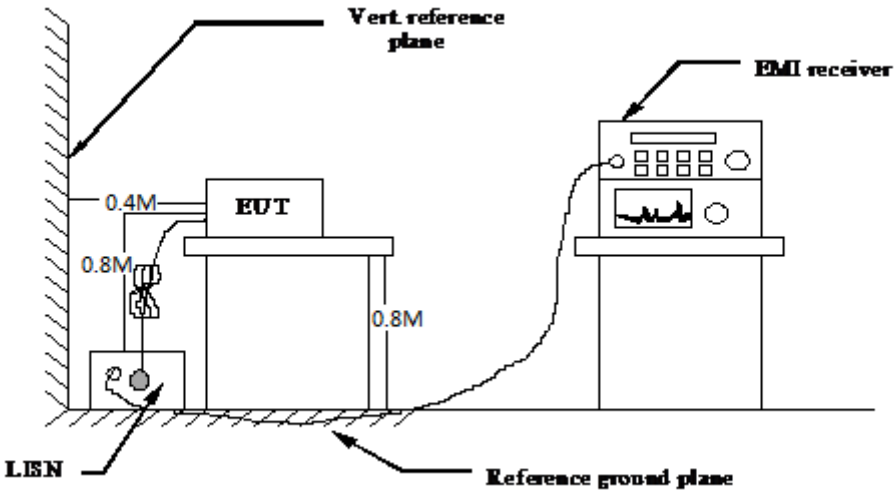
5. SUMMARY OF TEST RESULT

Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	☒	☐	☐	☐	**-/-**
AC conducted emission	§18.307 (a)	Nominal	Nominal	☒	☐	☐	☐	**-/-**

Remark: The measurement uncertainty is not included in the test result.
N/A – Not Applicable!!!

6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

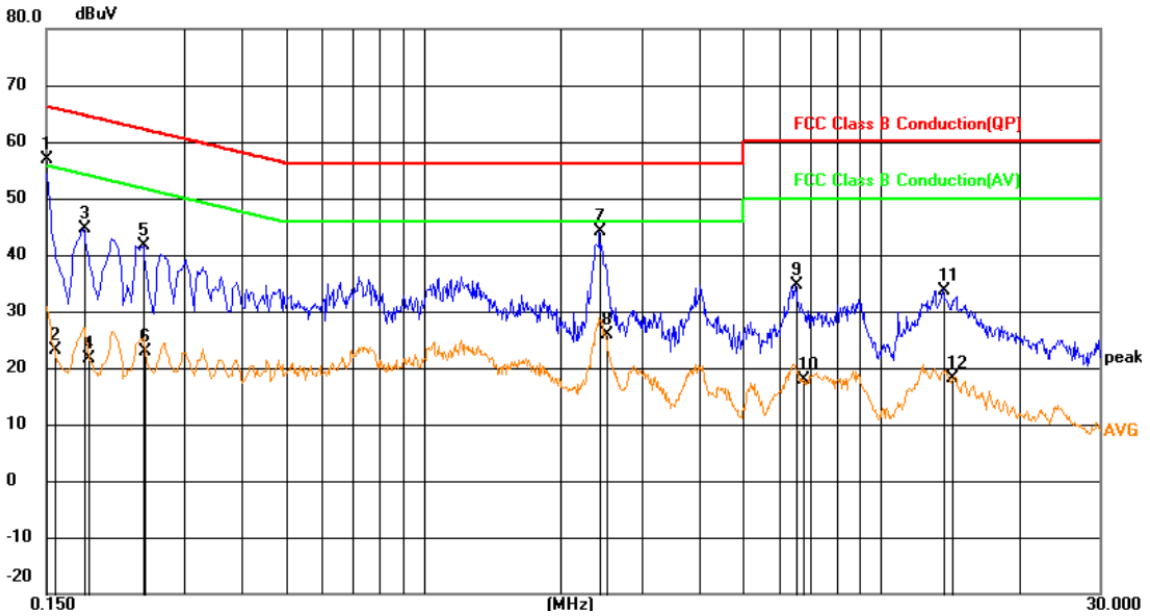
PASS

The test data please refer to following page.

Temperature	23.3℃	Humidity	53.7%
Test Engineer	Diamond Lu	Configurations	Transmit

AC Power Line Conducted Emission (Power input to adapter @ AC 120V/60Hz (Worst Case))

Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	37.62	19.14	56.76	66.00	-9.24	QP	
2		0.1564	3.92	19.15	23.07	55.65	-32.58	AVG	
3		0.1814	25.56	19.17	44.73	64.42	-19.69	QP	
4		0.1862	2.36	19.17	21.53	54.20	-32.67	AVG	
5		0.2444	22.45	19.22	41.67	61.95	-20.28	QP	
6		0.2467	3.77	19.23	23.00	51.87	-28.87	AVG	
7		2.4224	24.75	19.45	44.20	56.00	-11.80	QP	
8		2.5034	6.34	19.45	25.79	46.00	-20.21	AVG	
9		6.5129	15.06	19.56	34.62	60.00	-25.38	QP	
10		6.7469	-1.77	19.56	17.79	50.00	-32.21	AVG	
11		13.6905	13.75	20.00	33.75	60.00	-26.25	QP	
12		14.3025	-1.83	20.05	18.22	50.00	-31.78	AVG	

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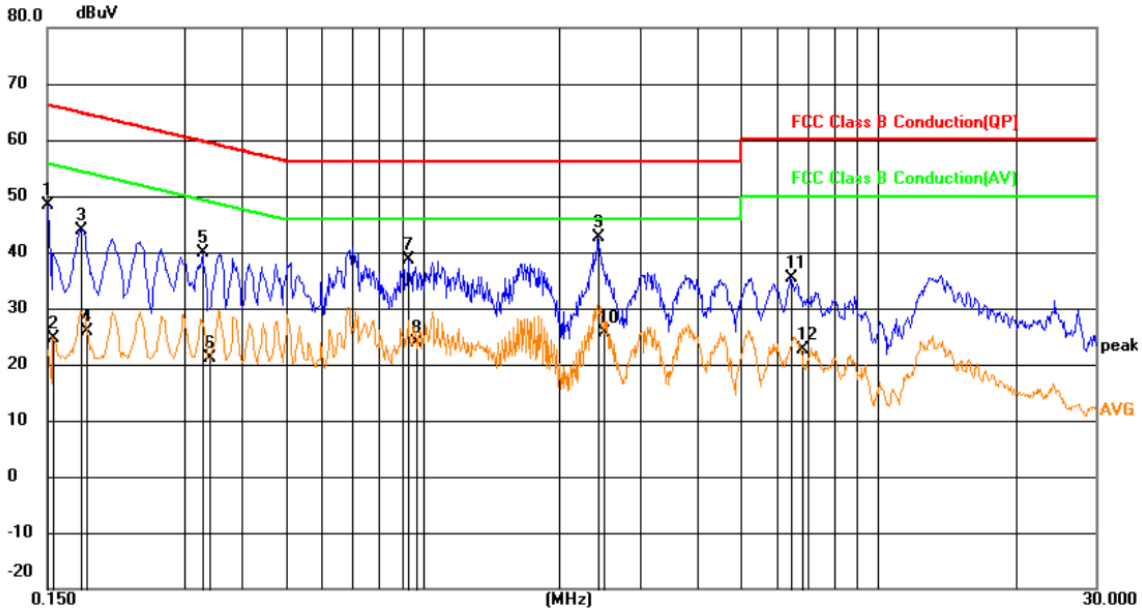
Neutral

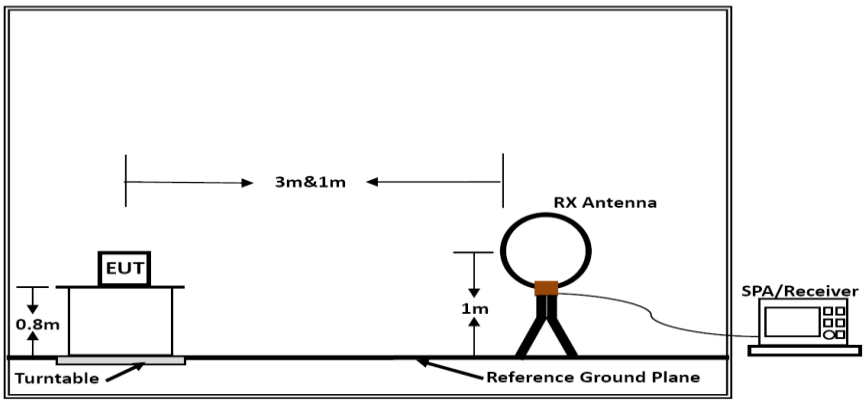


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1507	29.25	19.14	48.39	65.96	-17.57	QP	
2		0.1547	5.60	19.14	24.74	55.74	-31.00	AVG	
3		0.1768	24.81	19.17	43.98	64.63	-20.65	QP	
4		0.1833	6.82	19.17	25.99	54.33	-28.34	AVG	
5		0.3300	20.57	19.29	39.86	59.45	-19.59	QP	
6		0.3407	1.92	19.30	21.22	49.19	-27.97	AVG	
7		0.9284	19.31	19.28	38.59	56.00	-17.41	QP	
8		0.9687	4.50	19.27	23.77	46.00	-22.23	AVG	
9	*	2.4224	23.30	19.43	42.73	56.00	-13.27	QP	
10		2.4944	6.30	19.43	25.73	46.00	-20.27	AVG	
11		6.4363	15.80	19.55	35.35	60.00	-24.65	QP	
12		6.7919	3.13	19.57	22.70	50.00	-27.30	AVG	

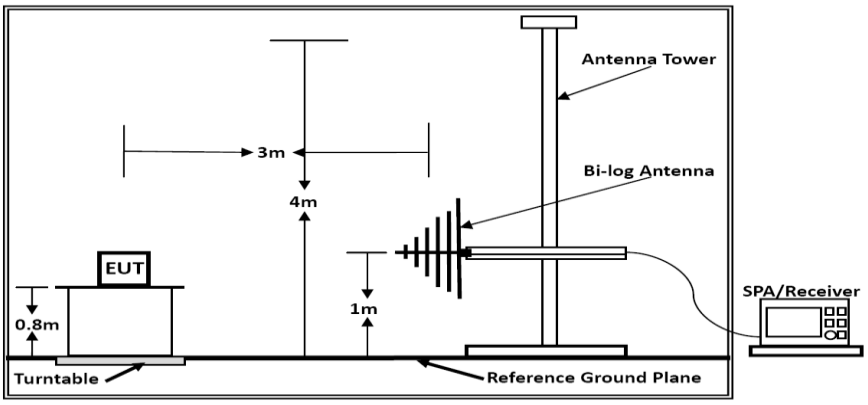
****Note: Pre-scan all modes and recorded the worst case results in this report.*

7. RADIATED EMISSION MEASUREMENT

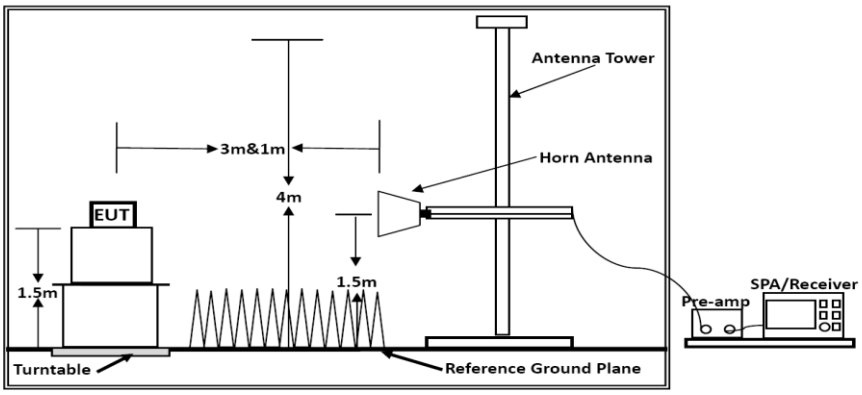
7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Frequency MHz	Distance Meters	Field Strengths Limit	
		dBμV/m	Remark
0.009~30MHz	3	103.5	Quasi-peak

Remark:
(1) Emission level dBμV/m for 0.009~30MHz = 20log (15) + 40log (300/3) dBμV/m;
(2) Calculated according FCC 18.305.
(3) The smaller limit shall apply at the cross point between two frequency bands.
(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

(1) Setup the EUT as shown in Section 4.1.

(2) Let the EUT work in worst test mode (Mode 1) and measure it.

7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

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7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

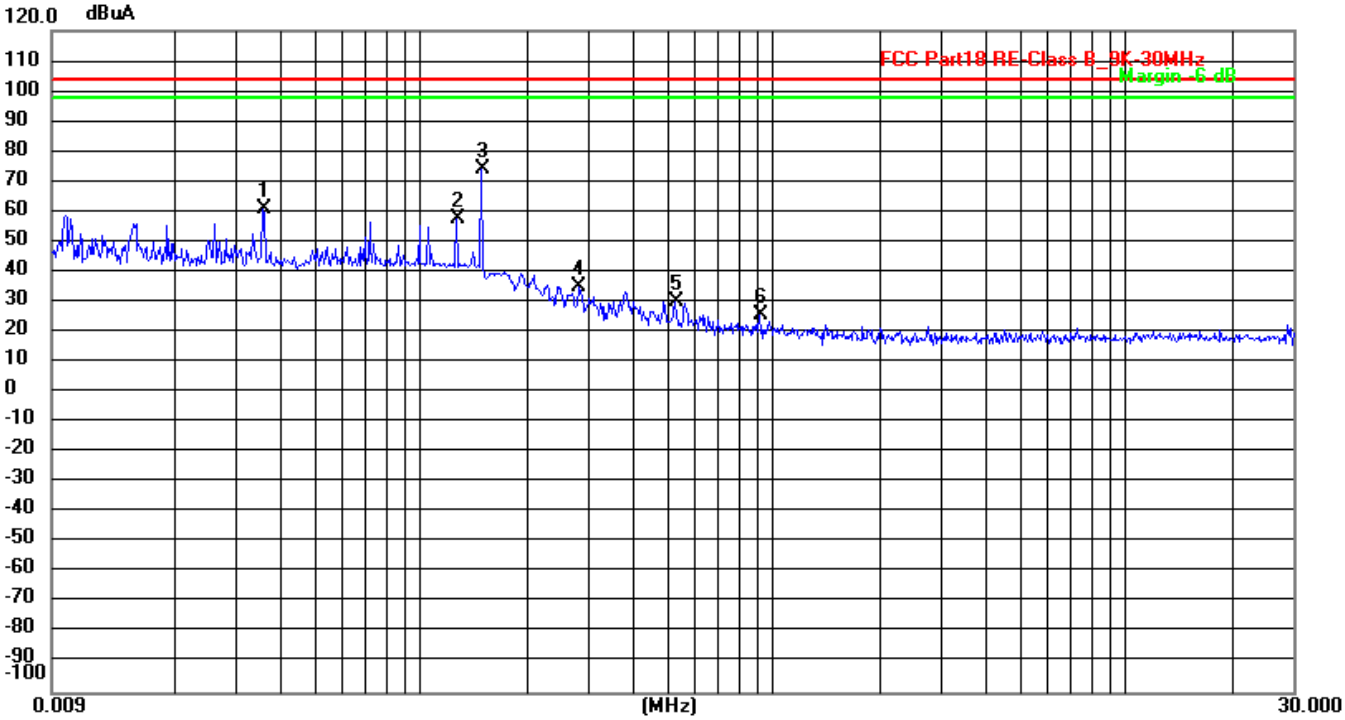
PASS.

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	24.3℃	Humidity	54.3%
Test Engineer	Diamond Lu	Configurations	Transmit

0.009 MHz – 30 MHz



No.	Frequency (MHz)	Reading (dBuA)	Factor (dBS)	Level (dBuA)	Limit (dBuA)	Margin (dB)	Detector
1	0.0359	40.16	20.69	60.85	103.50	-42.65	QP
2	0.1270	37.24	20.46	57.70	103.50	-45.80	QP
3	0.1500	53.16	20.69	73.85	103.50	-29.65	QP
4	0.2819	14.63	20.56	35.19	103.50	-68.31	QP
5	0.5299	9.76	20.56	30.32	103.50	-73.18	QP
6	0.9220	4.92	20.52	25.44	103.50	-78.06	QP

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree.

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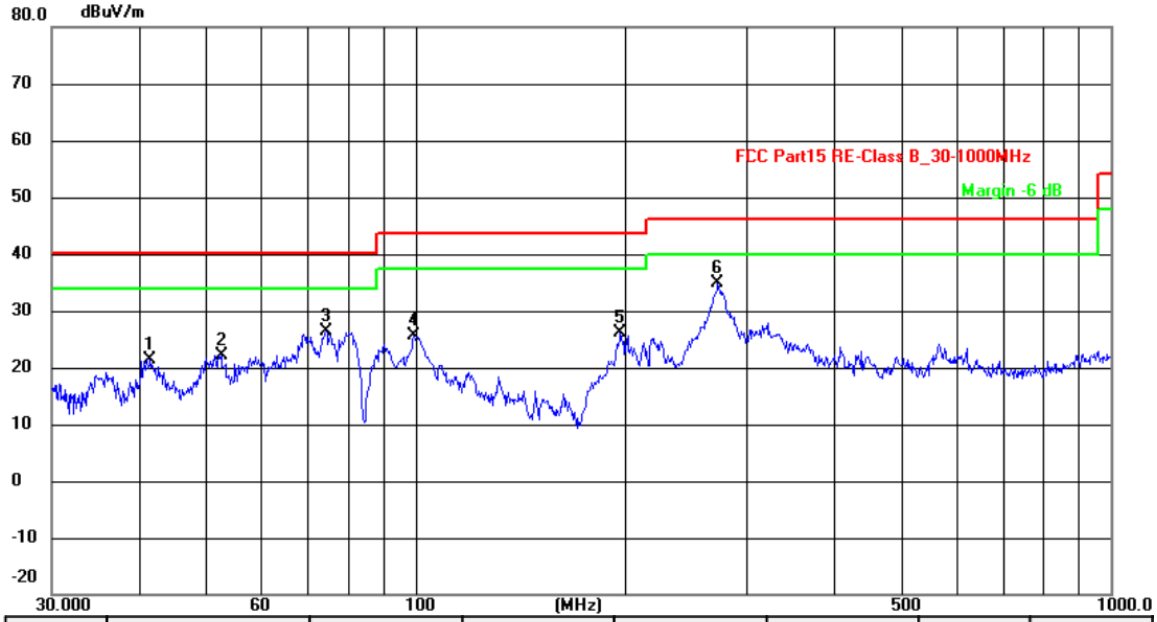
Below 1GHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.5670	37.49	-16.15	21.34	40.00	-18.66	QP
2	52.5753	38.04	-15.91	22.13	40.00	-17.87	QP
3	74.3955	47.28	-20.80	26.48	40.00	-13.52	QP
4	99.5281	43.07	-17.39	25.68	43.50	-17.82	QP
5	197.2001	43.78	-17.54	26.24	43.50	-17.26	QP
6	272.2776	50.07	-15.15	34.92	46.00	-11.08	QP

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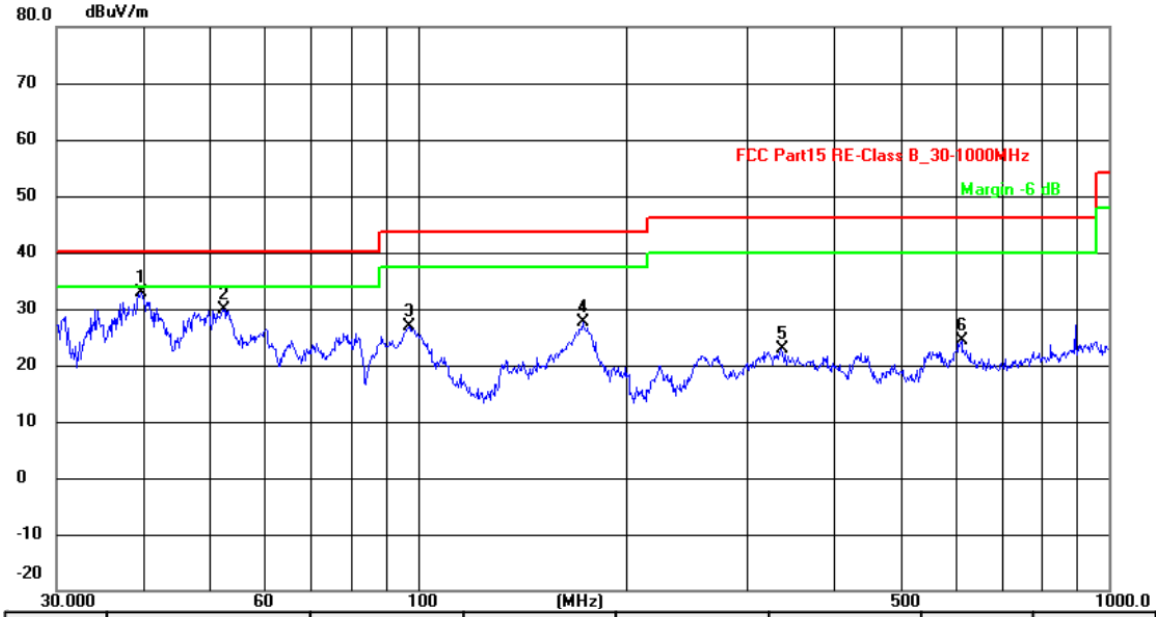
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.7146	49.36	-16.47	32.89	40.00	-7.11	QP
2	52.2079	45.82	-15.86	29.96	40.00	-10.04	QP
3	97.1148	44.73	-17.85	26.88	43.50	-16.62	QP
4	173.2051	47.67	-20.01	27.66	43.50	-15.84	QP
5	336.0352	36.58	-13.74	22.84	46.00	-23.16	QP
6	612.0642	32.57	-8.31	24.26	46.00	-21.74	QP

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8. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

9. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

10. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

----------THE END OF REPORT----------

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