

FCC TEST REPORT
For
The Gem Group, Inc.
Torus Qi Wireless Charger
Test Model: 100295-001B
Additional Model No.:N/A

Prepared for : The Gem Group, Inc.
Address : 9 International Way, Lawrence, Massachusetts 01843, United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 03, 2019
Number of tested samples : 1
Serial number : Prototype
Date of Test : March 03, 2019 ~ March 10, 2019
Date of Report : March 11, 2019

FCC TEST REPORT
FCC CFR 47 PART 18: 2017

Report Reference No. : LCS190417037AEA

Date Of Issue : March 11, 2019

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure: Full application of Harmonised standards [checked]
Partial application of Harmonised standards [unchecked]
Other standard testing method [unchecked]

Applicant's Name : The Gem Group, Inc.

Address : 9 International Way, Lawrence, Massachusetts 01843, United States

Test Specification

Standard : FCC CFR 47 PART 18: 2017

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. : Torus Qi Wireless Charger

Trade Mark : Gemline

Test Model : 100295-001B

Power Supply : Micro USB input: DC 5V/2.4A MAX
Wireless Output: DC 5V/1A MAX, 5W MAX

Result : Positive

Compiled by:

[Handwritten signature of Linda He]

Linda He / File administrators

Supervised by:

[Handwritten signature of Calvin Weng]

Calvin Weng / Technique principal

Approved by:

[Handwritten signature of Gavin Liang]

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS190417037AEA	<u>March 11, 2019</u> Date of issue
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Test Model.....	: 100295-001B
EUT.....	: Torus Qi Wireless Charger
Applicant.....	: The Gem Group, Inc.
Address.....	: 9 International Way, Lawrence, Massachusetts 01843, United States
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: MSH Electronic Limited
Address.....	: The 3rd Floor, 8th Building KeSiDa Industrial Area, GuanLan Town, 518110, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	: MSH Electronic Limited
Address.....	: The 3rd Floor, 8th Building KeSiDa Industrial Area, GuanLan Town, 518110, Shenzhen, China
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	March 11, 2019	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Torus Qi Wireless Charger
Model Number(s)	:	100295-001B
Test Model	:	100295-001B
Hardware Version	:	CLS-0120(006-5W)_V2.0
Software Version	:	4ecf
Operating Frequency	:	110 KHz - 205 KHz
Modulation Type	:	CW (Continuous Wave)
Antenna Type	:	Coil Antenna
Input / Output	:	Micro USB input: DC 5V/2.4A MAX Wireless Output: DC 5V/1A, 5W MAX
Maximum Rated Power of WPT	:	5 W

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Apple	Mobile Phone	iPhone X	--	FCC ID
SHENZHEN BIAOYUAN TECHNOLOGY CO., LTD	Adapter	BY-075W01M	--	FCC VOC
Lenovo	PC	Ideapad	A131101550	FCC DOC
Lenovo	Power adapter	CPA-A090	36200414	FCC DOC

Mobile phone and adapter are supplied by Lab.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Micro USB Port	1	--

1.4 Description of Test Facility

FCC Registration Number is 254912.

Industry Canada Registration Number is 9642A-1.

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 is 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.

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 mode

Modulation Type: CW (Continuous Wave)

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

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.

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.

4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	ESA-E SERIES SPECTRUM ANALYZER	Agilent	E4407B	MY41440754	2018-11-16	2019-11-15
2	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2018-06-16	2019-06-15
3	SPECTRUM ANALYZER	R&S	FSP	100503	2018-06-16	2019-06-15
4	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2018-06-16	2019-06-15
5	Positioning Controller	MF	MF-7082	/	2018-06-16	2019-06-15
6	EMI Test Software	AUDIX	E3	ROMOSS	2018-06-16	2019-06-15
7	EMI Test Receiver	R&S	ESR 7	N/A	N/A	N/A
8	AMPLIFIER	QuieTek	QTK-A2525G	CHM10809065	2018-11-16	2019-11-15
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-06-22	2019-06-21
10	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-05-01	2019-04-30
11	Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1925	2018-07-02	2019-07-01
12	RF Cable-R03m	Jye Bao	RG142	CB021	2018-06-16	2019-06-15
13	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2018-06-16	2019-06-15
14	TEST RECEIVER	R&S	ESCI	101142	2018-06-16	2019-06-15
15	RF Cable-CON	UTIFLEX	3102-26886-4	CB049	2018-06-16	2019-06-15
16	10dB Attenuator	SCHWARZBECK	MTS-IMP136	261115-001-0032	2018-06-16	2019-06-15
17	Artificial Mains	R&S	ENV216	101288	2018-06-16	2019-06-15

Note: All equipment is calibrated through GUANGZHOU LISAI CALIBRATION AND TEST CO.,LTD.

5. SUMMARY OF TEST RESULT

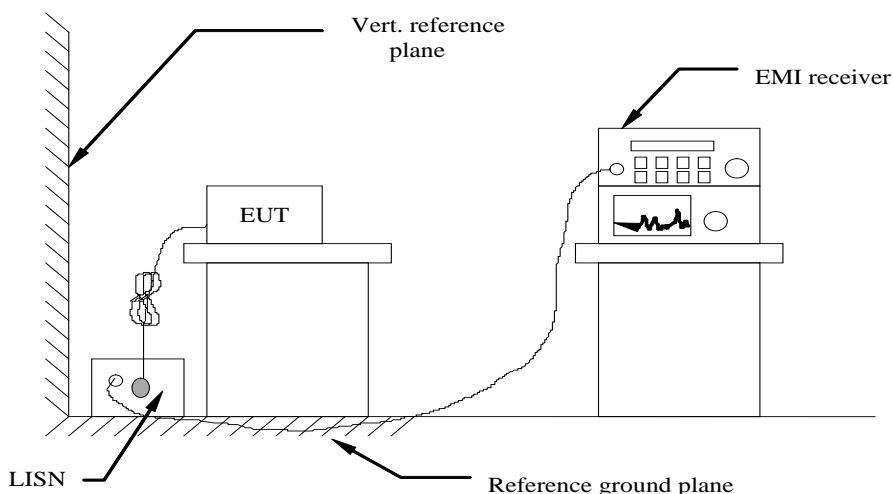
Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-/-

Remark:

The measurement uncertainty is not included in the test result.

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

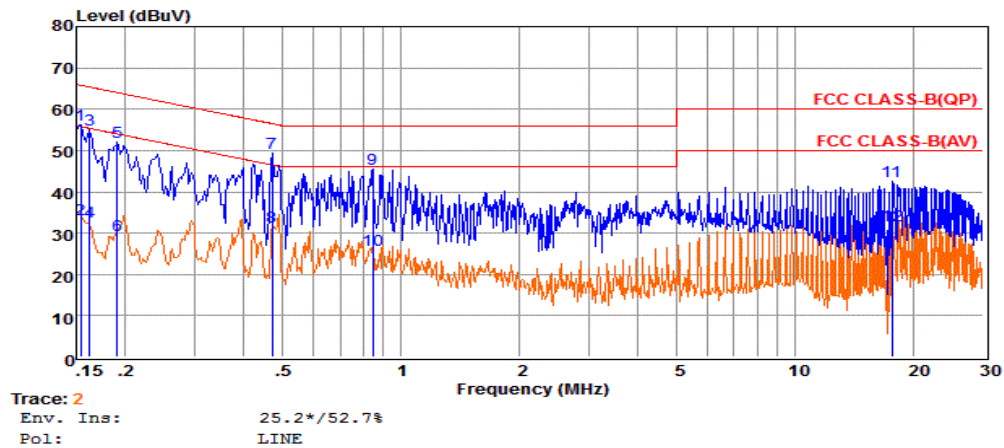
PASS.

The test data please refer to following page.

Temperature	25.2°C	Humidity	52.7%
Test Engineer	Tom Liu		

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

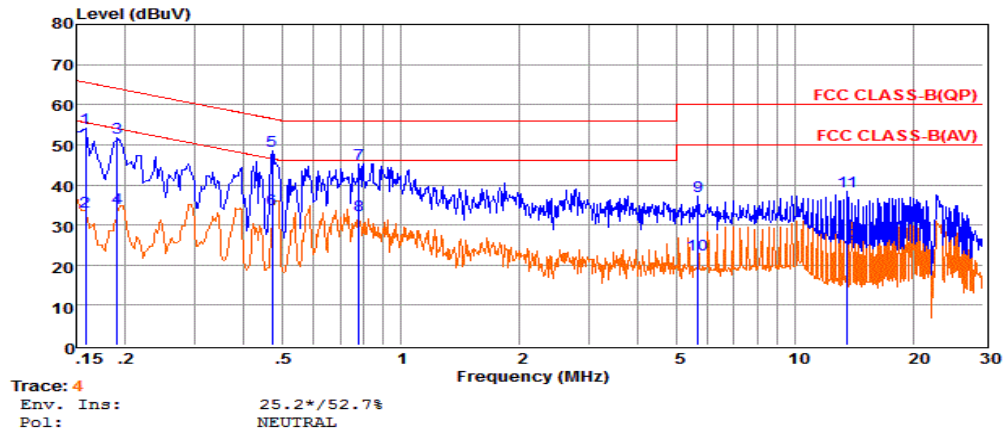
Line



	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15	36.75	9.58	0.02	10.00	56.35	65.78	-9.43	QP
2	0.15	13.77	9.58	0.02	10.00	33.37	55.77	-22.40	Average
3	0.16	35.38	9.59	0.02	10.00	54.99	65.34	-10.35	QP
4	0.16	13.15	9.59	0.02	10.00	32.76	55.33	-22.57	Average
5	0.19	32.49	9.62	0.02	10.00	52.13	64.02	-11.89	QP
6	0.19	9.82	9.62	0.02	10.00	29.46	54.02	-24.56	Average
7	0.47	29.75	9.62	0.04	10.00	49.41	56.49	-7.08	QP
8	0.47	12.01	9.62	0.04	10.00	31.67	46.49	-14.82	Average
9	0.85	25.71	9.63	0.04	10.00	45.38	56.00	-10.62	QP
10	0.85	6.15	9.63	0.04	10.00	25.82	46.00	-20.18	Average
11	17.57	22.80	9.74	0.11	10.00	42.65	60.00	-17.35	QP
12	17.57	12.00	9.74	0.11	10.00	31.85	50.00	-18.15	Average

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.
 2. The emission levels that are 20dB below the official limit are not reported.

Neutral



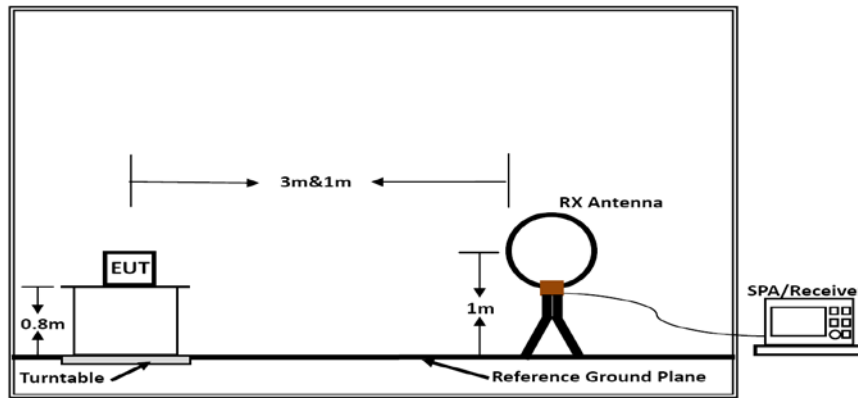
	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.16	34.37	9.68	0.02	10.00	54.07	65.56	-11.49	QP
2	0.16	13.47	9.68	0.02	10.00	33.17	55.55	-22.38	Average
3	0.19	32.06	9.61	0.02	10.00	51.69	64.02	-12.33	QP
4	0.19	14.55	9.61	0.02	10.00	34.18	54.02	-19.84	Average
5	0.47	28.80	9.62	0.04	10.00	48.46	56.49	-8.03	QP
6	0.47	14.35	9.62	0.04	10.00	34.01	46.49	-12.48	Average
7	0.78	25.60	9.63	0.04	10.00	45.27	56.00	-10.73	QP
8	0.78	12.83	9.63	0.04	10.00	32.50	46.00	-13.50	Average
9	5.68	17.52	9.67	0.06	10.00	37.25	60.00	-22.75	QP
10	5.68	2.89	9.67	0.06	10.00	22.62	50.00	-27.38	Average
11	13.55	18.43	9.74	0.10	10.00	38.27	60.00	-21.73	QP
12	13.55	5.32	9.74	0.10	10.00	25.16	50.00	-24.84	Average

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.
 2. The emission levels that are 20dB below the official limit are not reported.

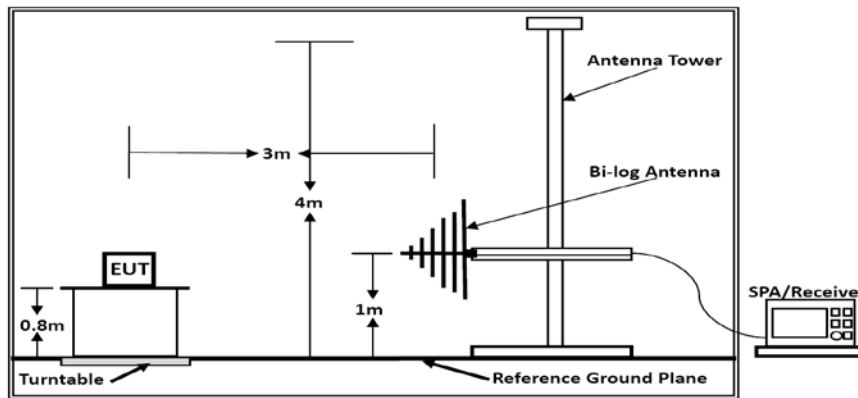
***Note: Pre-scan all modes and recorded the worst case results in this report.

7. RADIATED EMISSION MEASUREMENT

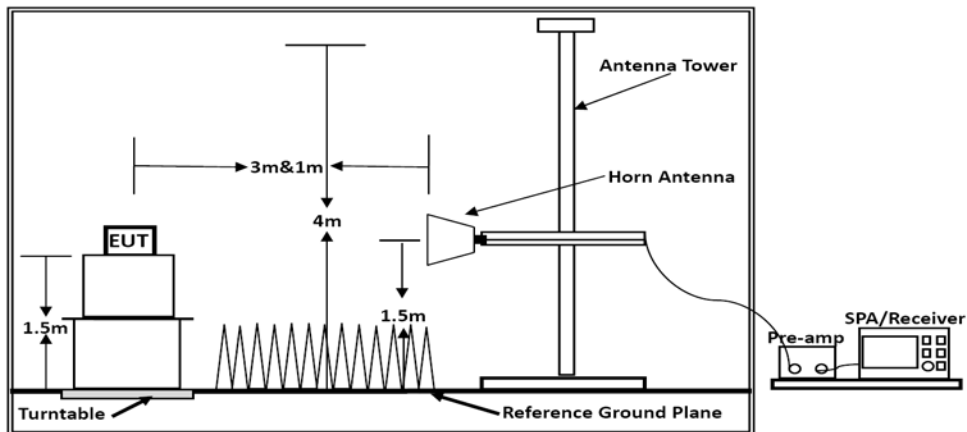
7.1. Block Diagram of Test Setup



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	
		dB μ V/m	Remark
0.009~30MHz	3	103.5	Quasi-peak
30~88	3	40.0	Quasi-peak
88~216	3	43.5	Quasi-peak
216~960	3	46.0	Quasi-peak
960~1000	3	54.0	Quasi-peak

Remark:

- (1) Emission level dB μ V/m for 0.009~30MHz = 20log (15) + 40log (300/3) dB μ V/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

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.

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 ($\pm 45^\circ$) 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

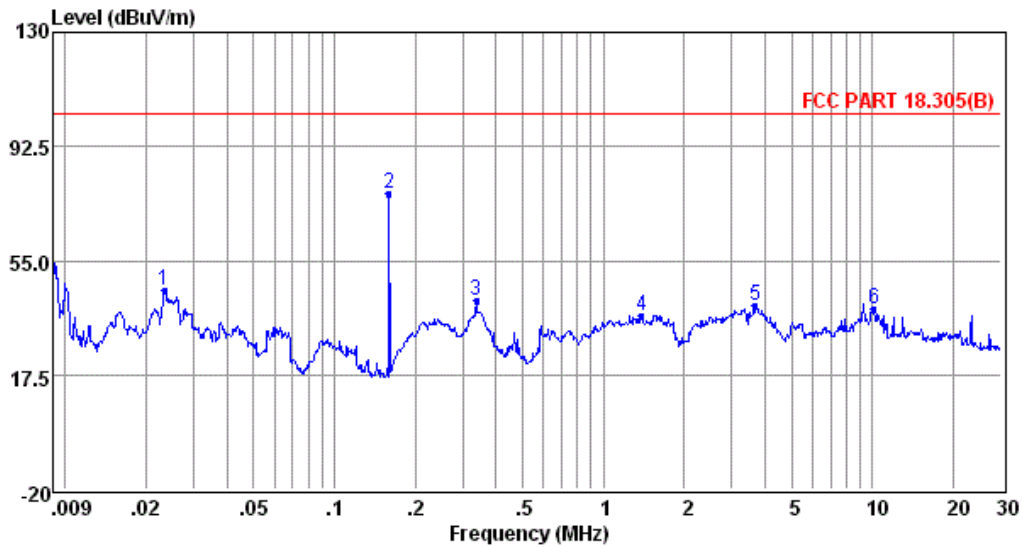
PASS.

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

The test data please refer to following page:

Temperature	24.8°C	Humidity	52.7%
Test Engineer	Tom Liu		

0.009~30MHz



Env./Ins: 24.8°C/52.7%

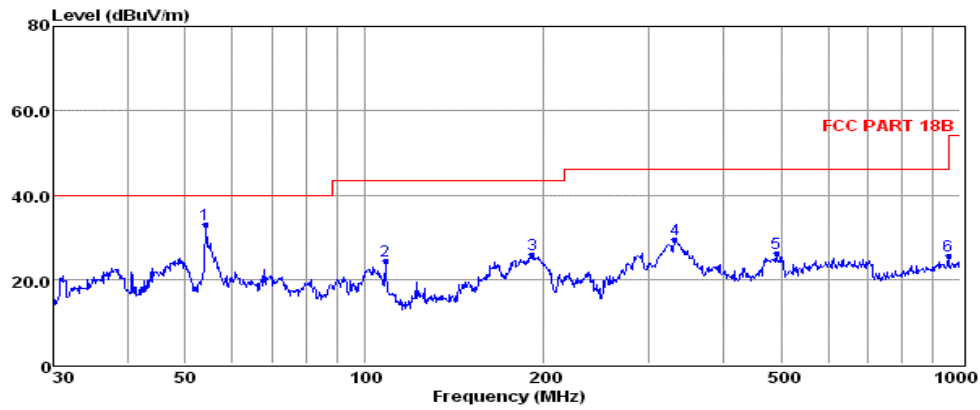
	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	0.02	24.17	0.30	20.62	45.09	103.50	-58.41	QP
2	0.16	56.11	0.30	20.44	76.85	103.50	-26.65	QP
3	0.34	21.00	0.30	20.37	41.67	103.50	-61.83	QP
4	1.39	16.48	0.30	20.30	37.08	103.50	-66.42	QP
5	3.67	19.62	0.30	20.29	40.21	103.50	-63.29	QP
6	10.12	18.26	0.30	20.34	38.90	103.50	-64.60	QP

- Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

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

30MHz~1000 MHz

Horizontal

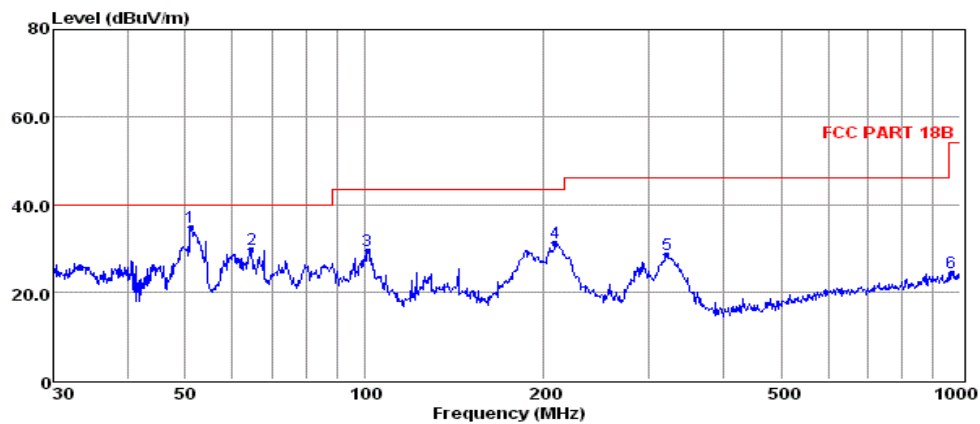


Env./Ins: 24.8°C/52.7%
 pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	54.07	19.52	0.46	13.06	33.04	40.00	-6.96	QP
2	108.27	11.17	0.68	12.41	24.26	43.50	-19.24	QP
3	191.07	14.45	0.86	10.56	25.87	43.50	-17.63	QP
4	332.52	14.58	1.11	13.82	29.51	46.00	-16.49	QP
5	490.74	8.63	1.32	16.34	26.29	46.00	-19.71	QP
6	955.44	2.14	1.89	21.45	25.48	46.00	-20.52	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

Vertical



Env./Ins: 24.8°C/52.7%
 pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	51.12	21.14	0.54	13.20	34.88	40.00	-5.12	QP
2	64.66	18.47	0.52	10.84	29.83	40.00	-10.17	QP
3	101.29	15.72	0.60	13.04	29.36	43.50	-14.14	QP
4	208.58	19.41	0.86	10.84	31.11	43.50	-12.39	QP
5	322.19	14.06	1.16	13.42	28.64	46.00	-17.36	QP
6	968.93	1.07	1.91	21.54	24.52	54.00	-29.48	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report.
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

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.

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