

FCC TEST REPORT

For

The Gem Group, Inc.

Quinn 5-in-1 Wireless Charging Station

Test Model: 100936-121

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

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 12, 2021
Number of tested samples : 1
Sample number : 210312022A
Serial number : Prototype
Date of Test : March 12, 2021 ~ April 9, 2021
Date of Report : April 9, 2021

**FCC TEST REPORT
FCC CFR 47 PART 18****Report Reference No.** : **LCS210312022AEA**

Date Of Issue : April 9, 2021

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, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name** : **The Gem Group, Inc.**

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

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

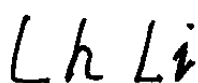
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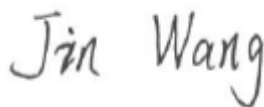
Test Item Description..... : **Quinn 5-in-1 Wireless Charging Station**

Trade Mark : Gemline

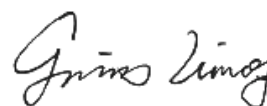
Test Model..... : 100936-121

Power Supply : Input: DC 12V/3.75A
Output (USB): 5W*2
Wireless Output: 10W(max)*3
Adapter parameters: Input: 100-240V 50/60Hz 1.5A
Output: DC 12V/3.75A**Result** : **Positive****Compiled by:**

Lh Li/ Administrator

Supervised by:

Jin Wang/ Technique principal

Approved by:

Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. :	LCS210312022AEA	<u>April 9, 2021</u> Date of issue
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Test Model..... : 100936-121

EUT..... : Quinn 5-in-1 Wireless Charging Station

Applicant..... : The Gem Group, Inc.

Address..... : 9 International Way, Lawrence, MA 01843, United States

Telephone..... : /

Fax..... : /

Manufacturer..... : Shenzhen Future charger Technology Co., LtdAddress..... : Yong feng tian industiral park, 3rd industrial zone, fenghuang,
Fuyong, Bao'an District, Shenzhen, China.51810

Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Future charger Technology Co., LtdAddress..... : Yong feng tian industiral park, 3rd industrial zone, fenghuang,
Fuyong, Bao'an District, Shenzhen, China.51810

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	April 9, 2021	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Quinn 5-in-1 Wireless Charging Station
Test Model	: 100936-121
Power Supply	Input: DC 12V/3.75A
	Output (USB): 5W*2
	Wireless Output: 10W(max)*3
	Adapter parameters: Input: 100-240V 50/60Hz 1.5A
	Output: DC 12V/3.75A
Hardware Version	: FC-HM03-V33
Software Version	: /
Wireless Charging	:
Operating Frequency	: 110.7~148.0KHz
Modulation Type	: Continuous Wave
Antenna Type	: Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
MIUI	Mobile Phone	MI9	--	FCC SDOC
MIUI	Mobile Phone	MI9	--	FCC SDOC
Apple	Mobile Phone	iPhone	--	FCC SDOC

Note: AirPods, adapter and mobile phone are only used test, not shipped

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
DC IN	1	N/A
USB Port	2	N/A

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

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 and communication mode

Modulation Type: CW (Continuous Wave)

Test Modes		
Mode 1	AC/DC Adapter (12V/3.75A) + EUT+ Mobile Phone + USB Output (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter (12V/3.75A) + EUT+ Mobile Phone + USB Output (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter (12V/3.75A) + EUT+ Mobile Phone + USB Output (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, 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.

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.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2020-06-22	2021-06-21
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-14	2021-11-13
3	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2020-09-27	2021-09-26
4	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-06-16	2021-06-15
5	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21
6	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
7	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
8	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
9	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
10	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
11	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21
12	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-22	2021-06-21
13	EMI Test Receiver	R&S	ESPI	101840	2020-06-22	2021-06-21
14	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21
15	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-22	2021-06-21
16	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2020-06-22	2021-06-21

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

5. SUMMARY OF TEST RESULT

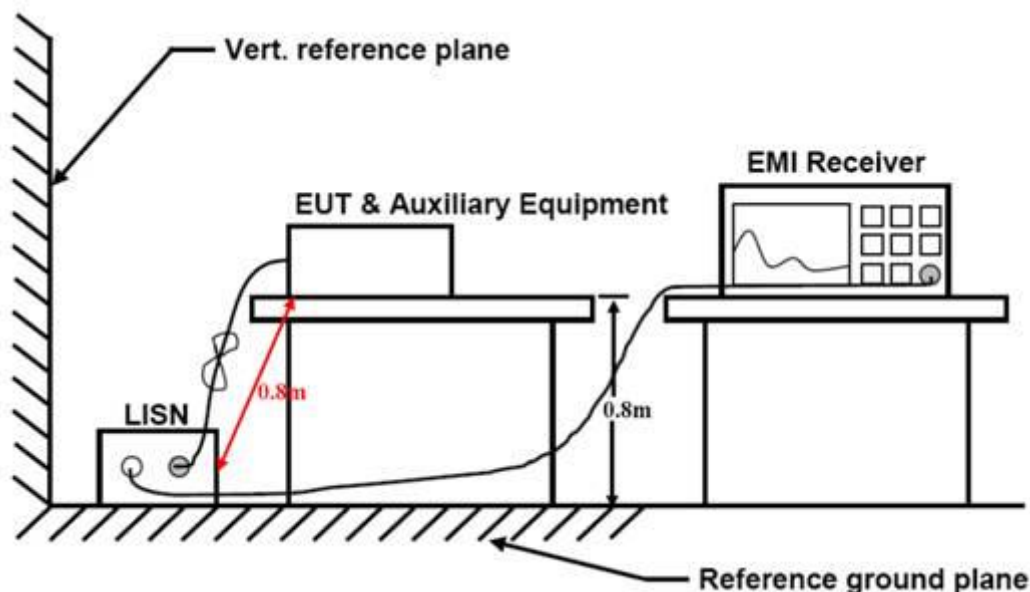
Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	<input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

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

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 (dB μ V)	
	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

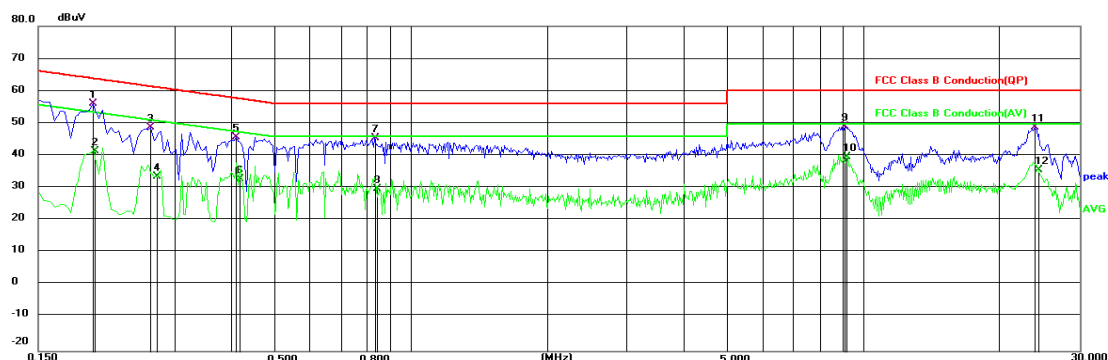
PASS

The test data please refer to following page.

Temperature	23.3°C	Humidity	53.7%
Test Engineer	Jay Li	Configurations	Transmit

AC Power Line Conducted Emission of working with an Adapter power supply @ AC 120V/60Hz (worst case)

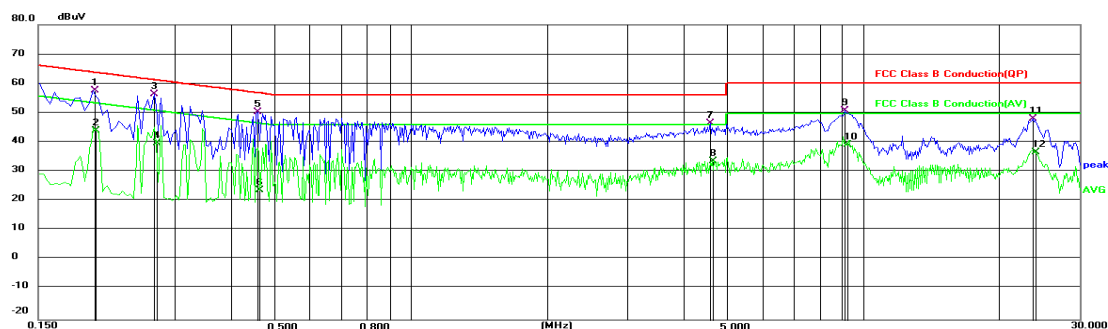
Line



Power Rating: AC 120V/60Hz Phase: L1 Temperature(C): 23.3(C)
Limit: FCC Class B Conduction(QP) Humidity(%): 53.7%RH

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1996	35.41	20.81	56.22	63.63	-7.41	QP
2	0.1997	20.80	20.81	41.61	53.62	-12.01	AVG
3	0.2671	28.37	20.53	48.90	61.21	-12.31	QP
4	0.2730	13.30	20.55	33.85	51.03	-17.18	AVG
5	0.4111	24.97	21.01	45.98	57.63	-11.65	QP
6	0.4171	11.96	21.03	32.99	47.51	-14.52	AVG
7	0.8341	25.24	20.30	45.54	56.00	-10.46	QP
8	0.8431	9.73	20.29	30.02	46.00	-15.98	AVG
9	9.1456	29.39	19.66	49.05	60.00	-10.95	QP
10	9.1996	20.10	19.66	39.76	50.00	-10.24	AVG
11	23.9641	28.76	20.10	48.86	60.00	-11.14	QP
12	24.4051	15.57	20.11	35.68	50.00	-14.32	AVG

Neutral



Power Rating: AC 120V/60Hz Phase: N Temperature(C): 23.3(C)
Limit: FCC Class B Conduction(QP) Humidity(%): 53.7%RH

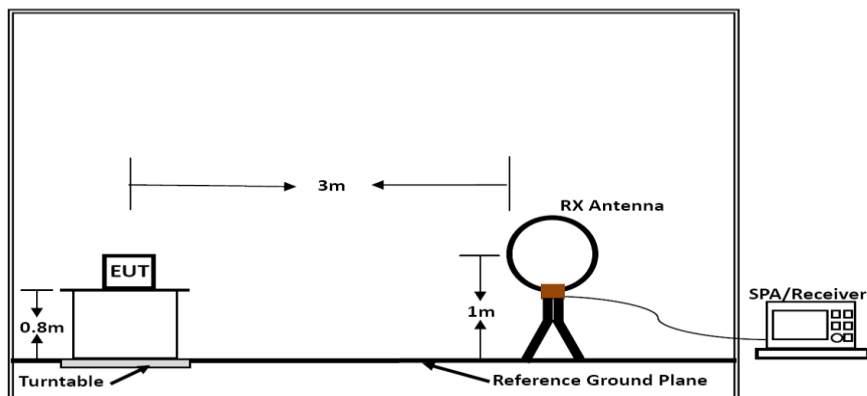
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1996	36.81	20.81	57.62	63.63	-6.01	QP
2	0.2017	23.41	20.79	44.20	53.54	-9.34	AVG
3	0.2716	35.84	20.54	56.38	61.07	-4.69	QP
4	0.2730	19.23	20.55	39.78	51.03	-11.25	AVG
5	0.4606	29.30	21.08	50.38	56.68	-6.30	QP
6	0.4651	2.93	21.06	23.99	46.60	-22.61	AVG
7	4.5781	27.04	19.48	46.52	56.00	-9.48	QP
8	4.6411	14.36	19.48	33.84	46.00	-12.16	AVG
9	9.1501	31.24	19.66	50.90	60.00	-9.10	QP
10	9.1906	19.57	19.66	39.23	50.00	-10.77	AVG
11	23.6671	28.00	20.10	48.10	60.00	-11.90	QP
12	23.9776	16.82	20.10	36.92	50.00	-13.08	AVG

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

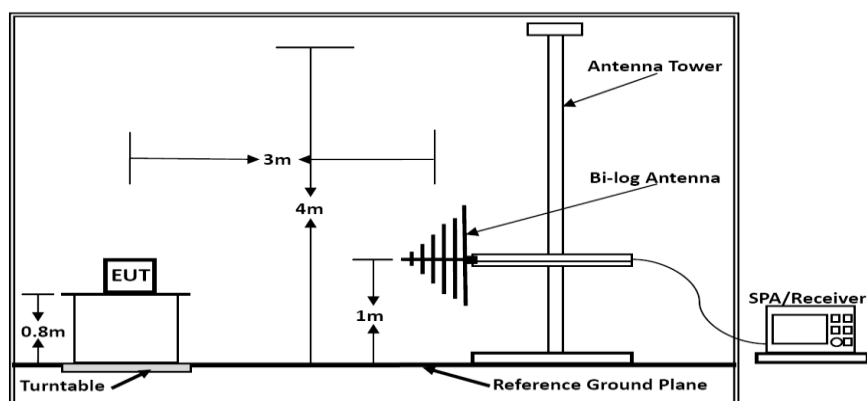
Margin= Reading level + Correct factor - Limit

7. RADIATED EMISSION MEASUREMENT

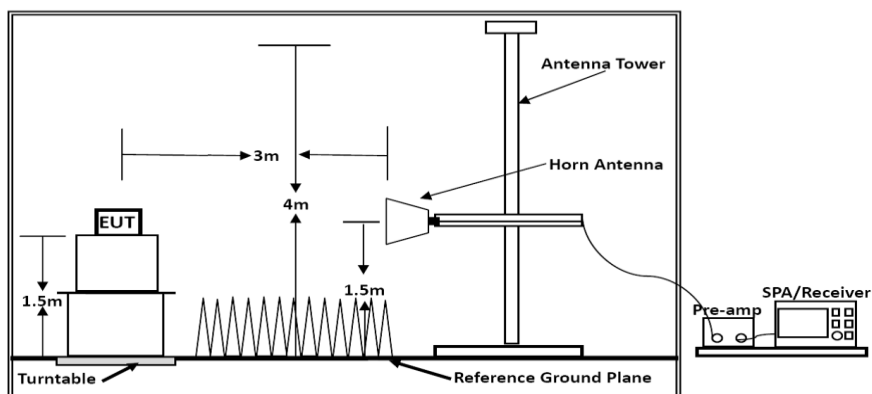
7.1. Block Diagram of Test Setup



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

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 1.0 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

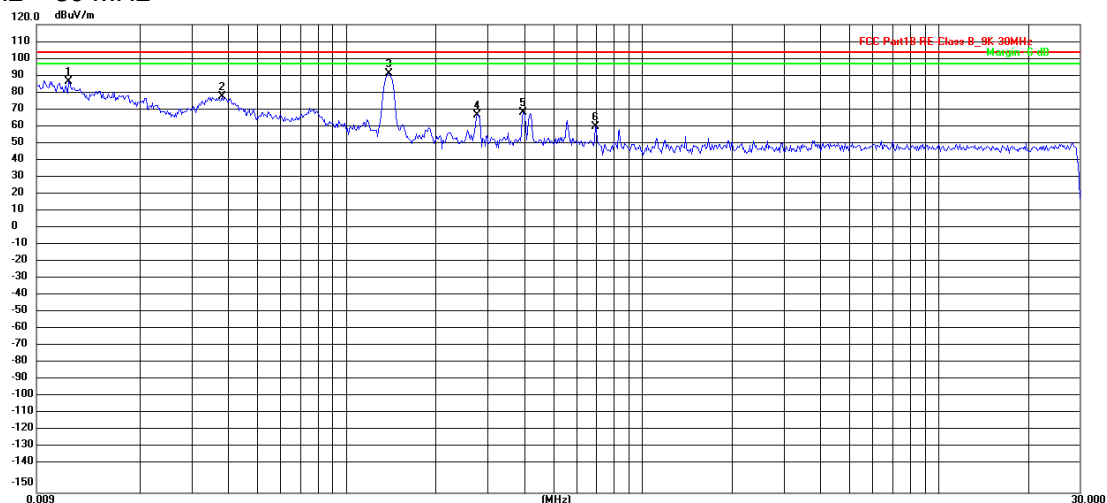
PASS.

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

The test data please refer to following page:

Temperature	24.3°C	Humidity	54.6%
Test Engineer	Jay Li	Configurations	Transmit

0.009 MHz – 30 MHz

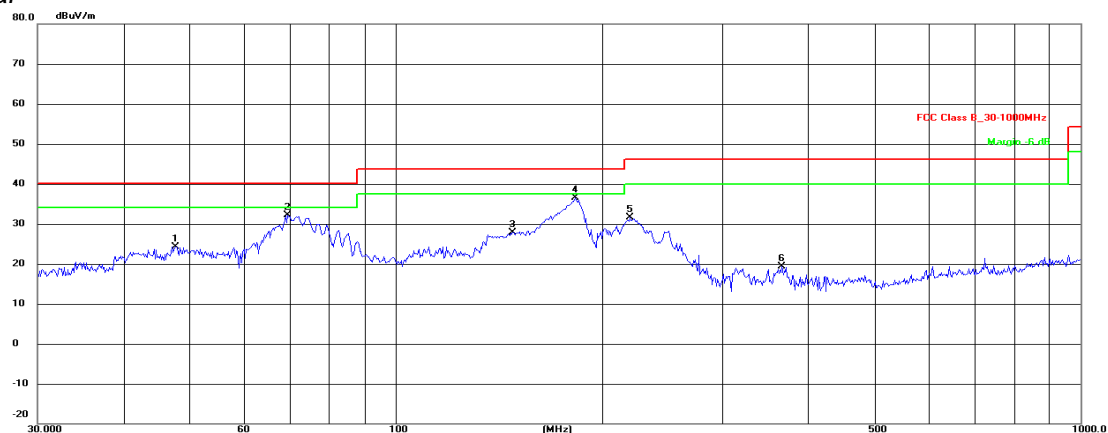


Limit:	FCC Part18 RE-Class B_9K-30MHz	Antenna::Vertical	Temperature(C):24.3(C)
Power Rating:	AC 120V/60Hz		Humidity(%):54.6%

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0115	66.39	20.58	86.97	103.50	-16.53	QP
2	0.0381	57.57	20.69	78.26	103.50	-25.24	QP
3 *	0.1396	71.13	20.43	91.56	103.50	-11.94	QP
4	0.2782	47.64	20.28	67.92	103.50	-35.58	QP
5	0.3975	48.91	20.28	69.19	103.50	-34.31	QP
6	0.6957	40.73	20.28	61.01	103.50	-42.49	QP

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.
Margin= Reading level + Factor - Limit

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Jay Li	Configurations	Transmit

Below 1GHz**Horizontal**

Limit:	FCC Class B_30-1000MHz	Antenna::Horizontal	Temperature(C):24.6(C)
Power Rating:	AC 120V/60Hz		Humidity(%):54.1%

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	47.6584	40.74	-16.42	24.32	40.00	-15.68	QP
2	69.6003	52.50	-20.38	32.12	40.00	-7.88	QP
3	148.4410	49.43	-21.69	27.74	43.50	-15.76	QP
4 *	183.2005	56.26	-19.84	36.42	43.50	-7.08	QP
5	219.8446	49.25	-17.68	31.57	46.00	-14.43	QP
6	366.8231	33.42	-14.07	19.35	46.00	-26.65	QP

Vertical

Limit:	FCC Class B_30-1000MHz	Antenna::Vertical	Temperature(C):24.6(C)
Power Rating:	AC 120V/60Hz		Humidity(%):54.1%

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	55.8046	43.74	-17.31	26.43	40.00	-13.57	QP
2 *	121.1230	52.79	-20.30	32.49	43.50	-11.01	QP
3	155.3642	53.58	-21.42	32.16	43.50	-11.34	QP
4	183.8438	50.00	-19.77	30.23	43.50	-13.27	QP
5	216.7828	44.53	-17.74	26.79	46.00	-19.21	QP
6	726.8052	27.56	-7.98	19.58	46.00	-26.42	QP

Note: Margin= Reading level + Factor - Limit

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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