RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant	:	Shenzhen Litaosheng Technology co,Ltd.
Address	:	Room 208, 4th Building, 1970 Technology Town, Minzhi, Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer/Factory	:	Shenzhen Litaosheng Technology co,Ltd.
Address	:	Room 208,4th Building,1970 Technology Town, Minzhi, Longhua District, Shenzhen City, Guangdong Province, China
E.U.T.	:	Wireless Charger
Brand Name	:	N/A
Model No.	:	TS01
FCC ID	:	2AOS6TS01
Measurement Standard	:	FCC PART 15 Subpart C
Date of Receiver	:	January 15, 2018
Date of Test	:	January 16, 2018 to January 19, 2018
Date of Report	:	January 19, 2018

This Test Report is Issued Under the Authority of :

Prepared by	Approved & Authorized Signer
Alina Guo / Engineer	Iori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

TEL: +86-769-22022444 FAX: +86-769-22022799 Web: www.ntc-c.com
Address: Building D, Gaosheng Science & Technology Park, Zhouxi Longxi Road, Nancheng District, Dongguan City, Guangdong, China

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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1801133FV00	Initial Issue	2018-01-19

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product name	:	Wireless Charger
Main model	:	TS01
Additional model	:	N/A
Model difference	:	N/A
Power Supply	:	Input: DC 5V From adapter Output: DC 5V 2A DC 9V 1.67A
Test voltage	:	AC 120V 60Hz adapter input
Adapter	:	N/A
Cable	:	N/A
Software version	:	V1.0
Hardware version	:	V1.0
Note	:	N/A
Remark	:	N/A
Frequency Range	:	105.5-204.5KHz

Note: The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The selected frequency and test software see below:

Channel	Frequency KHz
1	105.5
51	155.5
100	204.5

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AOS6TS01** filing to comply with FCC Part 15 (2016), Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

Note

1.6 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 14, 2015
The certificate is valid until August 13, 2018
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017
The certificate is valid until December 31, 2019
The Laboratory has been assessed and proved to be in compliance with ISO17025
The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017
The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.
(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science & Technology Park, Zhouxi Longxi Road, Nancheng District, Dongguan City, Guangdong Province, China

1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.35	20dB Bandwidth	±1.42 x10^{-4}%	Compliant
§15.207 (a)	AC Power Conducted Emission	±1.06dB	Compliant
§15.209	Radiated Emission	±3.70dB	Compliant

2. System Test Configuration

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 which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

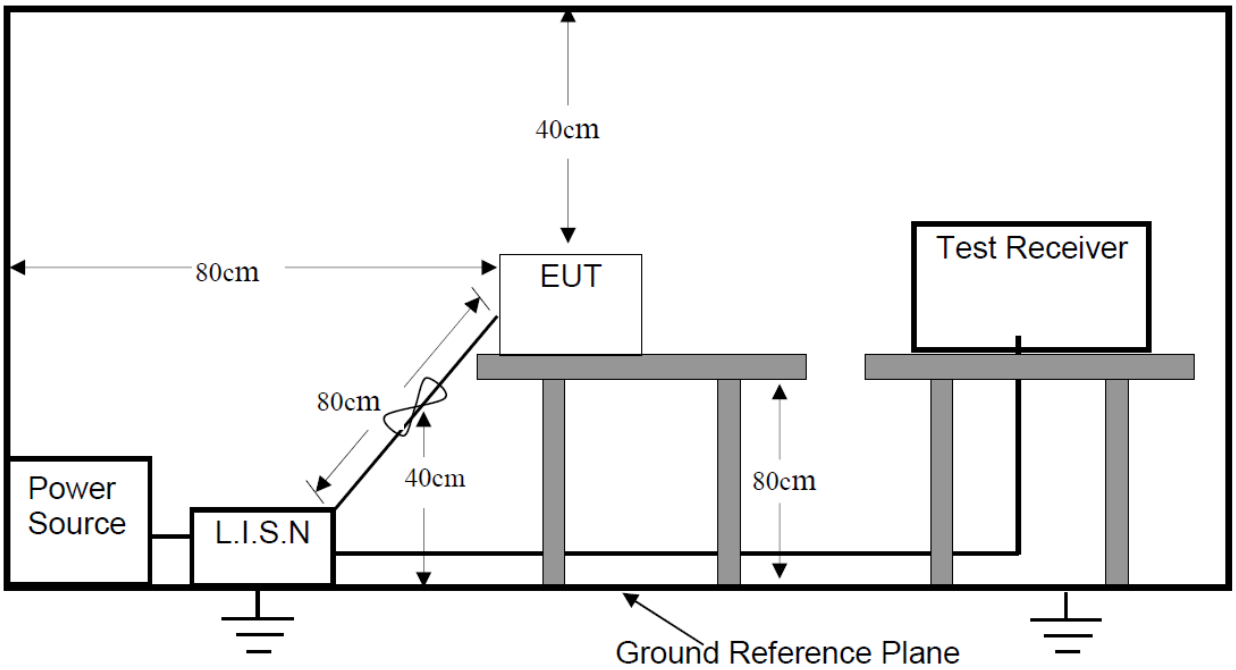
The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and normal mode is programmed. The Lowest, middle and highest channel were chosen for testing.

2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

3. Conducted Emissions Test

3.1 Test SET-UP (Block Diagram of Configuration)



3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: Full Load, Half Load, Empty Load

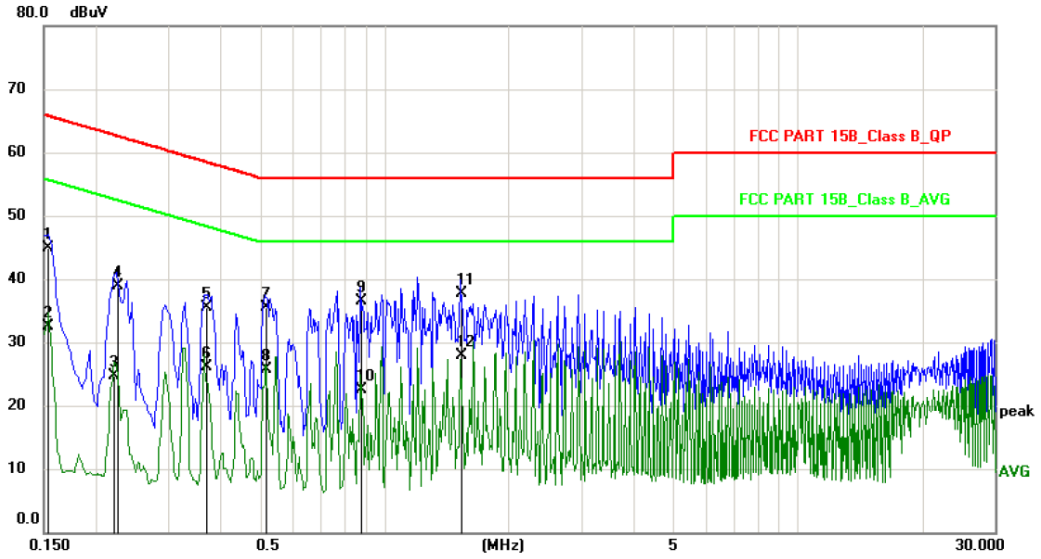
3.3 Measurement Results

Please refer to following plots of the worst case.

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Web: Http://www.ntc-c.com

Conducted Emission Measurement

File :TS01 Data :#2 Date: 2018-1-17 Time: 14:02:11



Site
Limit: FCC PART 15B_Class B_QP
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 9V

Phase: *L1*
Power: AC120V/60Hz

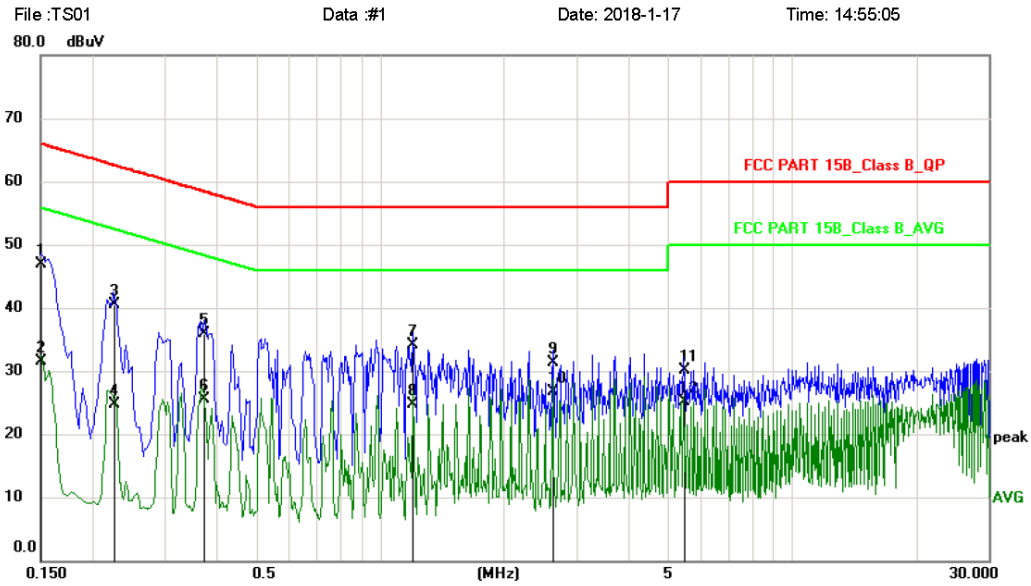
Temperature: 22.5
Humidity: 46 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	34.20	10.80	45.00	65.79	-20.79	QP	
2		0.1539	21.80	10.80	32.60	55.79	-23.19	AVG	
3		0.2220	14.00	10.80	24.80	52.74	-27.94	AVG	
4		0.2260	28.20	10.80	39.00	62.60	-23.60	QP	
5		0.3700	24.80	10.80	35.60	58.50	-22.90	QP	
6		0.3700	15.40	10.80	26.20	48.50	-22.30	AVG	
7		0.5180	24.70	10.80	35.50	56.00	-20.50	QP	
8		0.5180	15.00	10.80	25.80	46.00	-20.20	AVG	
9		0.8780	25.80	10.80	36.60	56.00	-19.40	QP	
10		0.8780	11.70	10.80	22.50	46.00	-23.50	AVG	
11		1.5339	27.00	10.80	37.80	56.00	-18.20	QP	
12	*	1.5339	17.20	10.80	28.00	46.00	-18.00	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

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Web: Http://www.ntc-c.com

Conducted Emission Measurement



Site
Limit: FCC PART 15B_Class B_QP
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 9V

Phase: *N*
Power: AC120V/60Hz

Temperature: 22.5
Humidity: 46 %

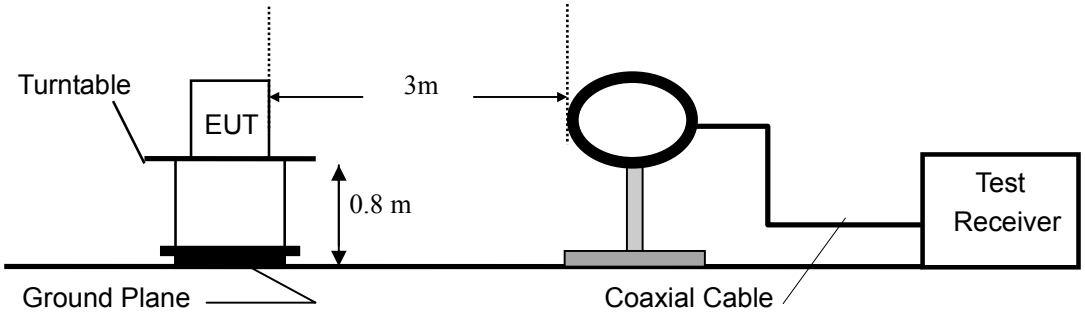
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	36.10	10.80	46.90	66.00	-19.10	QP	
2		0.1500	20.80	10.80	31.60	56.00	-24.40	AVG	
3		0.2260	29.70	10.80	40.50	62.60	-22.10	QP	
4		0.2260	14.00	10.80	24.80	52.60	-27.80	AVG	
5		0.3738	25.20	10.80	36.00	58.42	-22.42	QP	
6		0.3738	14.70	10.80	25.50	48.42	-22.92	AVG	
7		1.2018	23.30	10.80	34.10	56.00	-21.90	QP	
8		1.2018	14.00	10.80	24.80	46.00	-21.20	AVG	
9		2.6259	20.50	10.80	31.30	56.00	-24.70	QP	
10		2.6259	15.90	10.80	26.70	46.00	-19.30	AVG	
11		5.4699	19.40	10.80	30.20	60.00	-29.80	QP	
12		5.4699	14.30	10.80	25.10	50.00	-24.90	AVG	

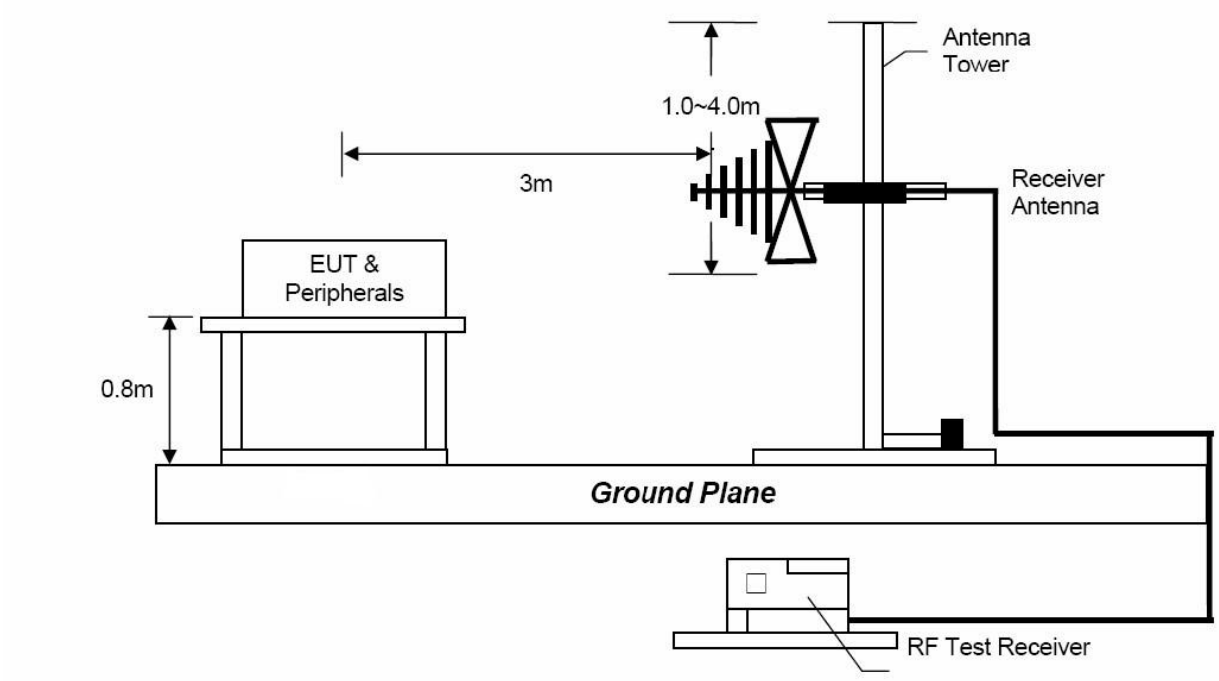
*:Maximum data x:Over limit !:over margin 〈Reference Only

4. Radiated Emission Test

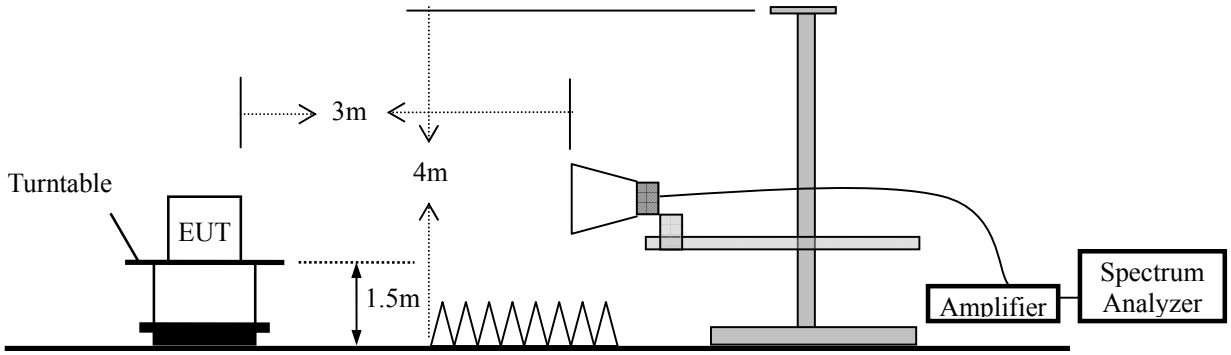
4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz





4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
b. For the radiated emission test above 1GHz:
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. 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.
e. 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. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		μV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark : (1) Emission level (dB)μV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(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 frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz/ RB 200Hz for AV
	90KHz~110KHz/ RB 200Hz for QP
	110KHz~490KHz/ RB 200Hz for AV
	490KHz~30MHz/ RB 9KHz for QP
	30MHz~1000MHz/ RB 120KHz for QP

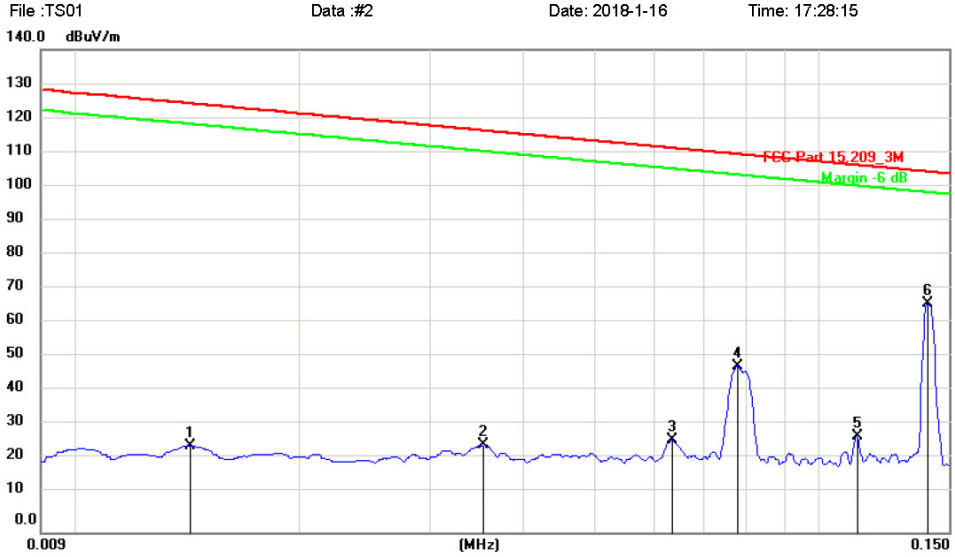
FCC 15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4 Measurement Results

Please refer to following plots of the worst case.

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Radiated Emission Measurement



Site
Limit: FCC Part 15.209_3M
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 5V

Polarization: *Horizontal*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0143	4.96	20.00	24.96	124.30	-99.37	peak			
2		0.0354	4.76	20.54	25.30	116.50	-91.20	peak			
3		0.0636	6.14	20.53	26.67	111.44	-84.77	peak			
4		0.0777	27.68	20.53	48.21	109.71	-61.50	peak			
5		0.1126	7.16	20.53	27.69	106.50	-78.81	peak			
6	*	0.1403	45.80	20.53	66.33	104.60	-38.27	peak			

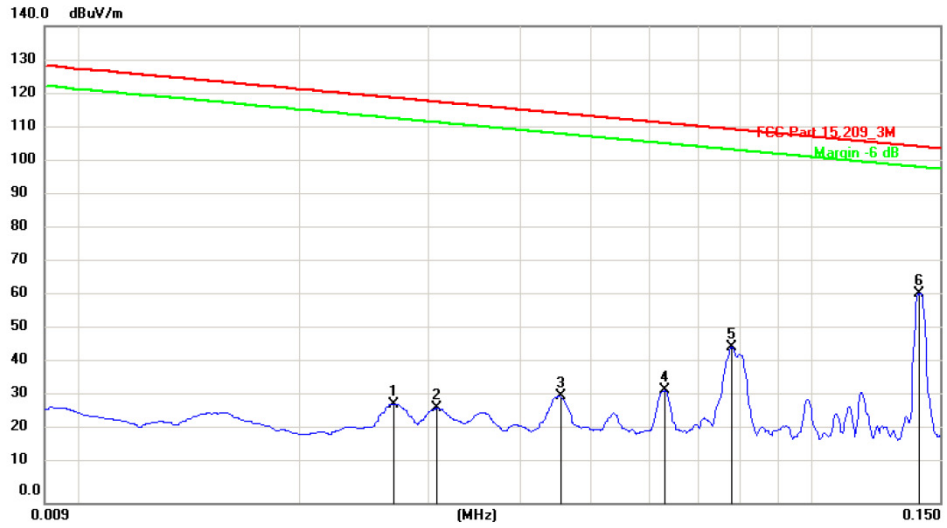
*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

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Web: Http://www.ntc-c.com

Radiated Emission Measurement

File :TS01 Data :#1 Date: 2018-1-16 Time: 17:21:31



Site
Limit: FCC Part 15.209_3M
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 5V

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 60 %

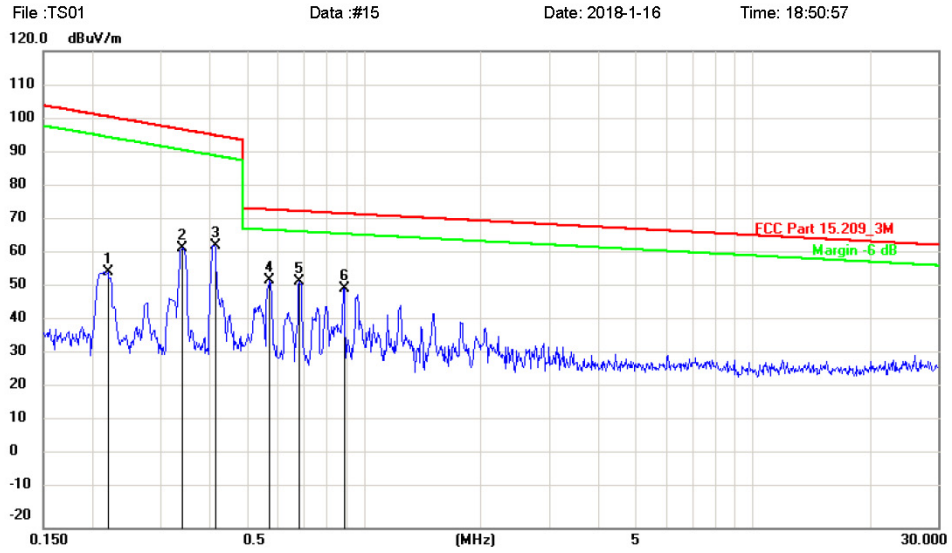
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0269	8.48	20.49	28.97	118.87	-89.90	peak			
2		0.0308	7.17	20.51	27.68	117.70	-90.02	peak			
3		0.0454	10.67	20.59	31.26	114.35	-83.09	peak			
4		0.0631	12.44	20.53	32.97	111.50	-78.53	peak			
5		0.0777	25.19	20.53	45.72	109.71	-63.99	peak			
6	*	0.1403	40.95	20.53	61.48	104.60	-43.12	peak			

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

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Radiated Emission Measurement



Site
Limit: FCC Part 15.209_3M
EUT: Wireless Charger
M/N: TS01
Mode: Half Load
Note: 5V

Polarization: *Horizontal*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 60 %

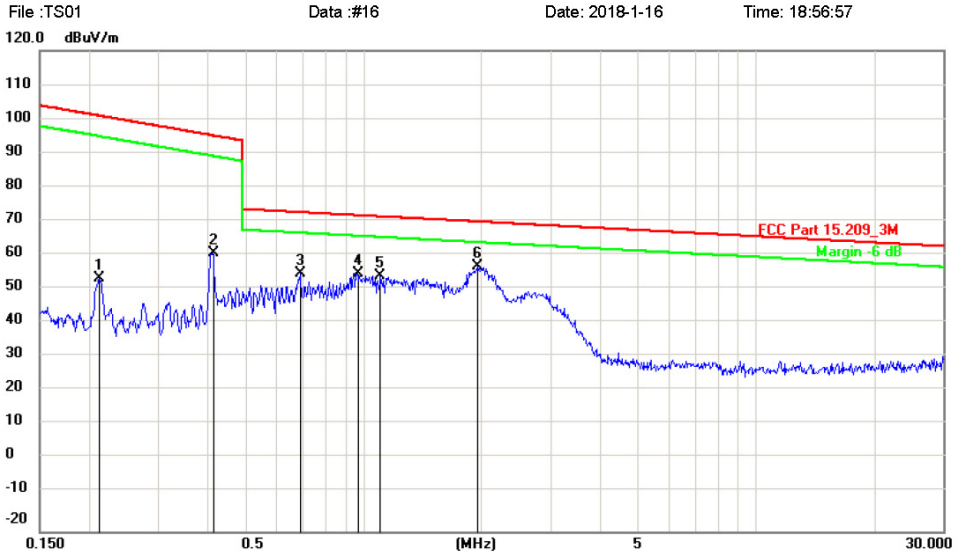
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.2197	34.67	20.51	55.18	100.70	-45.55	peak			
2		0.3410	41.60	20.48	62.08	96.93	-34.85	peak			
3		0.4127	42.29	20.46	62.75	95.28	-32.53	peak			
4		0.5731	32.11	20.44	52.55	73.39	-20.84	peak			
5	*	0.6824	31.93	20.43	52.36	72.93	-20.57	peak			
6		0.8897	29.82	20.40	50.22	72.23	-22.01	peak			

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

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Radiated Emission Measurement



Site
Limit: FCC Part 15.209_3M
EUT: Wireless Charger
M/N: TS01
Mode: Half Load
Note: 5V

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.2127	33.16	20.51	53.67	101.01	-47.34	peak			
2		0.4127	40.56	20.46	61.02	95.28	-34.26	peak			
3		0.6896	34.80	20.43	55.23	72.90	-17.67	peak			
4		0.9633	34.79	20.40	55.19	72.02	-16.83	peak			
5		1.1053	34.09	20.40	54.49	71.66	-17.17	peak			
6	*	1.9489	36.83	20.40	57.23	70.17	-12.94	peak			

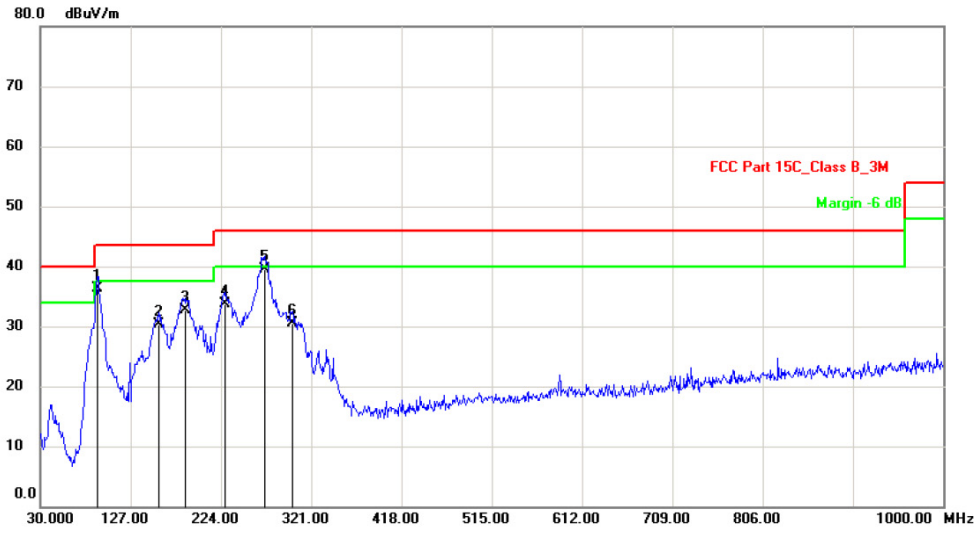
*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

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Web: Http://www.ntc-c.com

Radiated Emission Measurement

File :TS01 Data :#25 Date: 2018-1-17 Time: 10:28:47



Site
Limit: FCC Part 15C_Class B_3M
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 9V

Polarization: *Horizontal*
Power: AC120V/60Hz
Distance: 3m

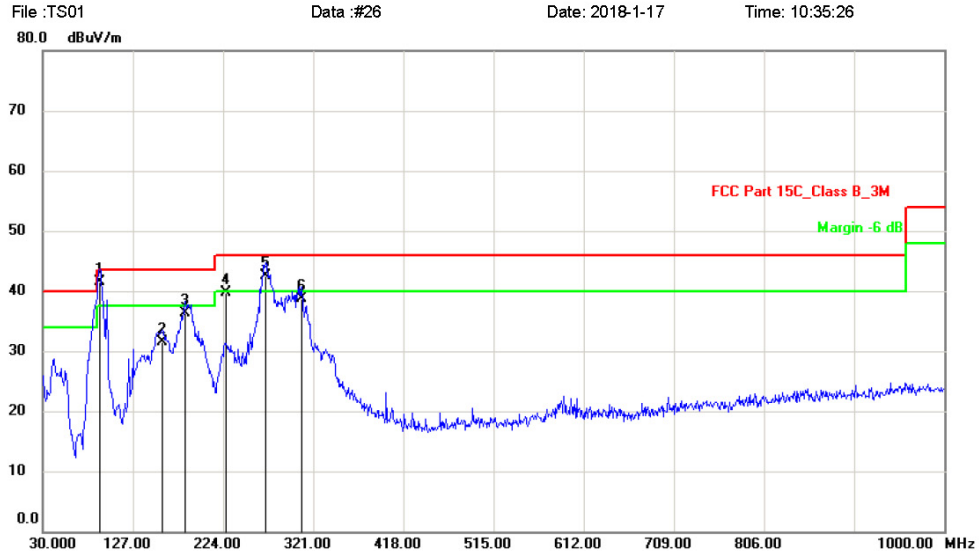
Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		91.1100	50.06	-13.66	36.40	43.50	-7.10	QP			
2		157.0700	45.57	-15.27	30.30	43.50	-13.20	QP			
3		185.2000	46.53	-13.83	32.70	43.50	-10.80	QP			
4		228.8500	46.32	-12.52	33.80	46.00	-12.20	QP			
5	*	271.5300	50.75	-11.15	39.60	46.00	-6.40	QP			
6		300.6300	41.05	-10.45	30.60	46.00	-15.40	QP			

*:Maximum data x:Over limit !:over margin 〈Reference Only

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Web: Http://www.ntc-c.com

Radiated Emission Measurement



Site
Limit: FCC Part 15C_Class B_3M
EUT: Wireless Charger
M/N: TS01
Mode: Full Load
Note: 9V

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	91.1100	58.26	-16.66	41.60	43.50	-1.90	QP			
2		158.0400	49.83	-18.23	31.60	43.50	-11.90	QP			
3		183.2600	53.24	-16.94	36.30	43.50	-7.20	QP			
4		226.9100	55.31	-15.61	39.70	46.00	-6.30	QP			
5	!	269.5900	55.80	-13.20	42.60	46.00	-3.40	QP			
6		308.3900	51.04	-12.24	38.80	46.00	-7.20	QP			

*:Maximum data x:Over limit !:over margin 〈Reference Only

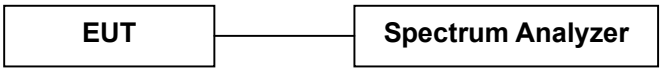
5. 20dB Bandwidth

5.1 Measurement Procedure

Maximum 20dB RF Bandwidth, FCC Rule 15.35:

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)



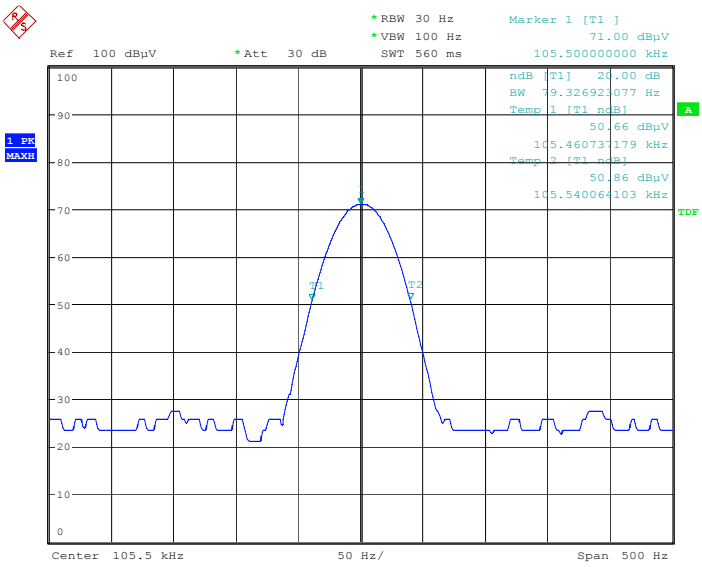
5.3 Measurement Results

Refer to attached data chart.

RBW:	30Hz	VBW:	100Hz
Test By:	Sance	Spectrum Detector:	PK
Temperature :	24 ℃	Test Date :	January 18, 2017
Test Result:	PASS	Humidity :	50 %

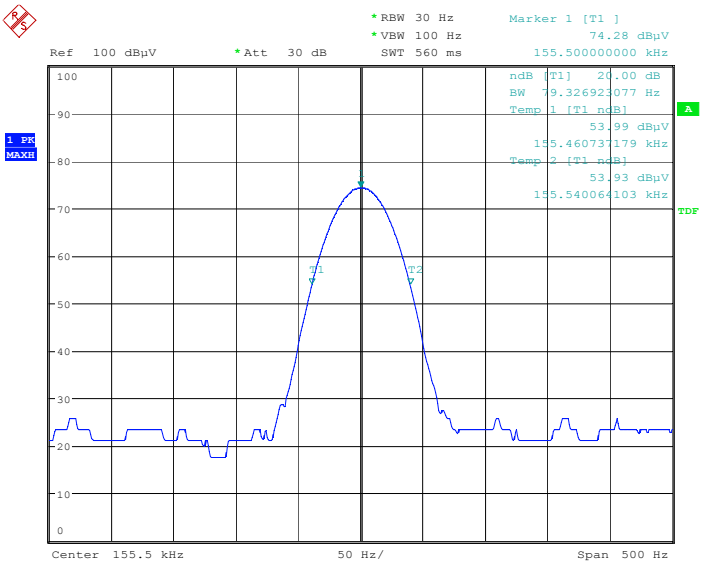
Channel frequency (KHz)	20dB Down BW(Hz)
105.5	79.33
155.5	79.33
204.5	78.53

Lowest Channel



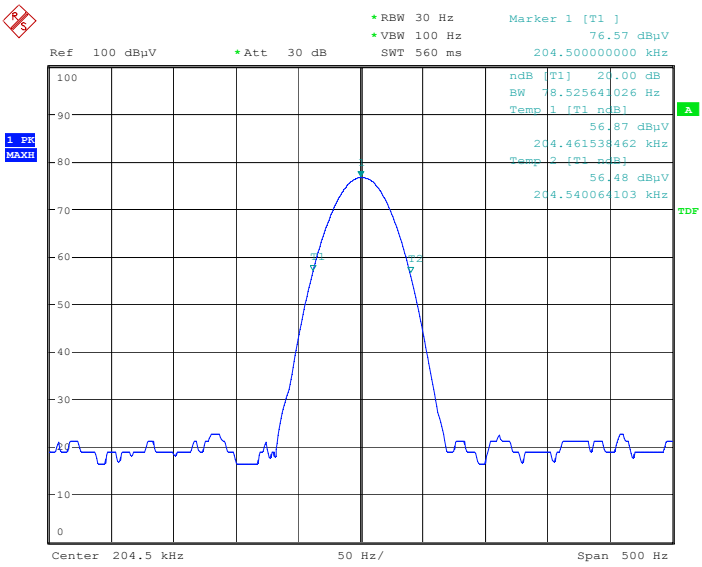
Date: 18.JAN.2018 08:21:15

Middle Channel



Date: 18.JAN.2018 08:21:38

Highest Channel



Date: 18.JAN.2018 08:22:04

6. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 15, 2017	Mar. 14, 2018
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 14, 2017	Mar. 13, 2018
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2017	Apr. 25, 2018
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2017	Mar. 13, 2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 14, 2017	Mar. 13, 2018
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 15, 2017	Mar. 14, 2018
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2017	Apr. 24, 2018
Loop antenna	Schwarzbeck	FMZB1513	1513-272	9KHz~30MHz	Sep. 09, 2017	Sep. 08, 2018
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	April. 06, 2017	April. 05, 2018
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 03, 2017	Nov. 02, 2018
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 14, 2017	Mar. 13, 2018
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

---End---