

FCC Test Report

APPLICANT : TCL Communication Ltd.
EQUIPMENT : Tablet PC
BRAND NAME : alcatel
MODEL NAME : 9024W
FCC ID : 2ACCJBT01
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jan. 17, 2017 and testing was completed on Mar. 04, 2017. We, SPORTON International (ShenZhen) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

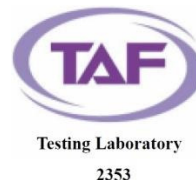
The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON International (ShenZhen) INC., the test report shall not be reproduced except in full.



Prepared by: Eric Shih / Manager



Approved by: Jones Tsai / Manager



SPORTON International (ShenZhen) INC.

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Guangdong Province, China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1. GENERAL DESCRIPTION	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Product Feature of Equipment Under Test	5
1.4. Product Specification of Equipment Under Test	6
1.5. Specification of Accessory	7
1.6. Modification of EUT	7
1.7. Test Location.....	8
1.8. Applicable Standards	8
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1. Test Mode	9
2.2. Connection Diagram of Test System	10
2.3. Support Unit used in test configuration and system.....	11
2.4. EUT Operation Test Setup	11
3. TEST RESULT	12
3.1. Test of AC Conducted Emission Measurement	12
3.2. Test of Radiated Emission Measurement	18
4. LIST OF MEASURING EQUIPMENT	22
5. UNCERTAINTY OF EVALUATION	23
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC711703	Rev. 01	Initial issue of report	Mar. 24, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 3.36 dB at 0.150 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 1.54 dB at 187.140 MHz for Quasi-Peak

1. General Description

1.1. Applicant

TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203,
P.R.China

1.2. Manufacturer

TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203,
P.R.China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	alcatel
Model Name	9024W
FCC ID	2ACCJBT01
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/Bluetooth v4.1 LE
IMEI Code	Conduction: N/A Radiation: N/A
HW Version	02
SW Version	CE9UM91
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5725 MHz ~ 5850 MHz; Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5725 MHz ~ 5850 MHz; Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz
Antenna Type	WWAN : PCB Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS: PIFA Antenna
Type of Modulation	GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK

1.5. Specification of Accessory

Specification of Accessory				
AC Adapter	Brand Name	alcatel	Model Name	UC13US
	Power Rating	I/P: 100 - 240 Vac, 400mA, O/P: 5 Vdc, 2000 mA		
	P/N	CBA0059AGAC2		
Battery	Brand Name	alcatel	Model Name	TLp040J1
	Power Rating	3.85 Vdc, 4000 mAh	Type	Li-ion
	S/N	C4000006C10043469		
USB Cable	Brand Name	NA	Model Name	NA
	Signal Line Type	0.8meter, non-shielded cable, with w/o ferrite core		

1.6. Modification of EUT

No modifications are made to the EUT during all test items.

1.7. Test Location

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	
	CO01-SZ	

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-SZ	565805

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

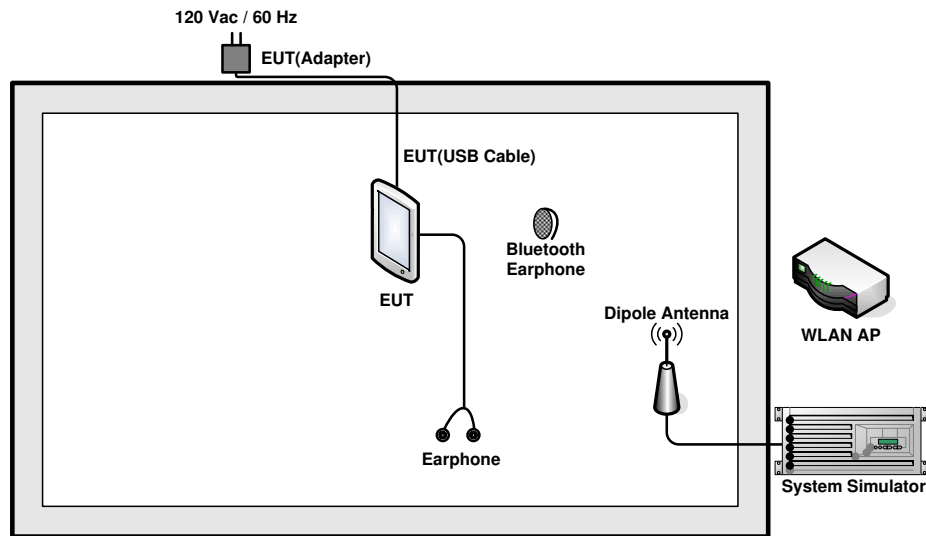
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

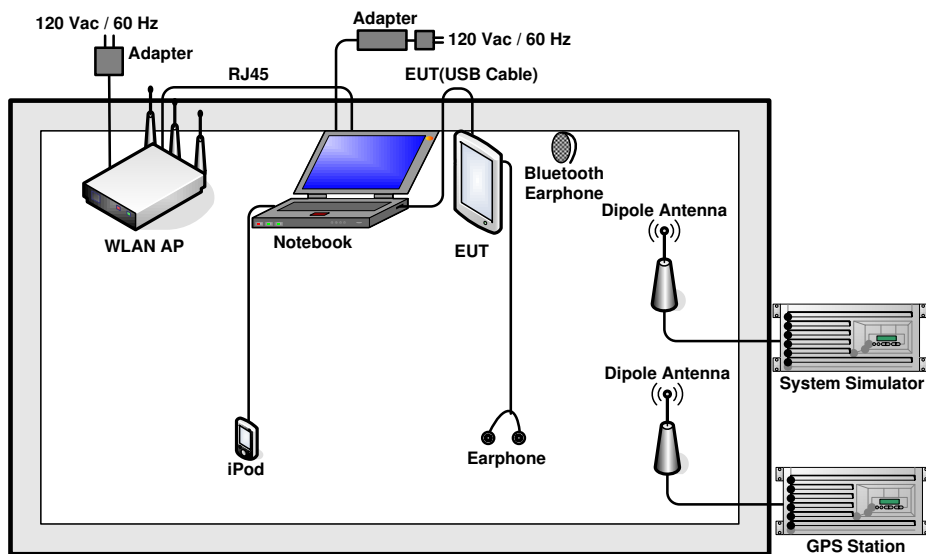
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GPRS850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera (Rear) <Fig.1> Mode 2: GPRS1900 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <Fig.1> Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1> Mode 4: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2>
Radiated Emissions < 1GHz	Mode 1: GPRS850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera (Rear) <Fig.1> Mode 2: GPRS1900 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <Fig.1> Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1> Mode 4: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2>
Radiated Emissions ≥ 1GHz	Mode 1: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2>
Remark: 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 4, the test data of these modes are reported. 2. The worst case of RE < 1G is mode 4; only the test data of this mode was reported. 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.	

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
8.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0m	N/A
10.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	N/A
11.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.6 m	N/A
12.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A

2.4. EUT Operation Test Setup

The EUT was in GPRS or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between Notebook and EUT via USB cable.
2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
3. Execute "Video Player" to play MPEG4 files.
4. Turn on camera to capture images.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that 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 the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

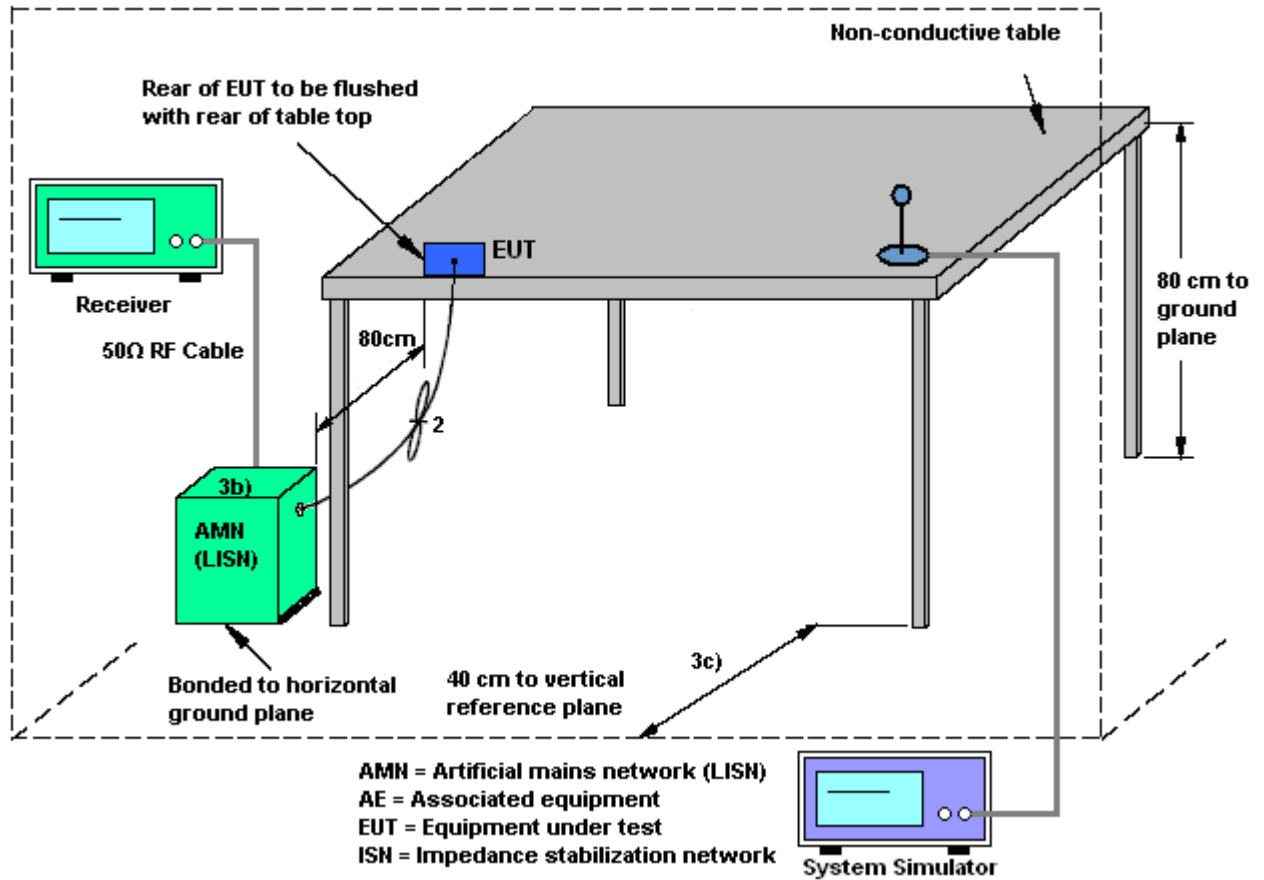
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

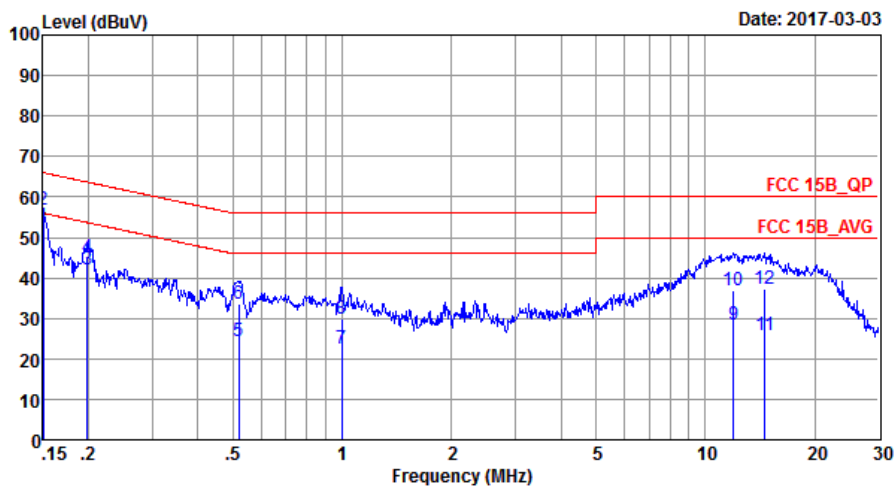
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GPRS850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera (Rear)		

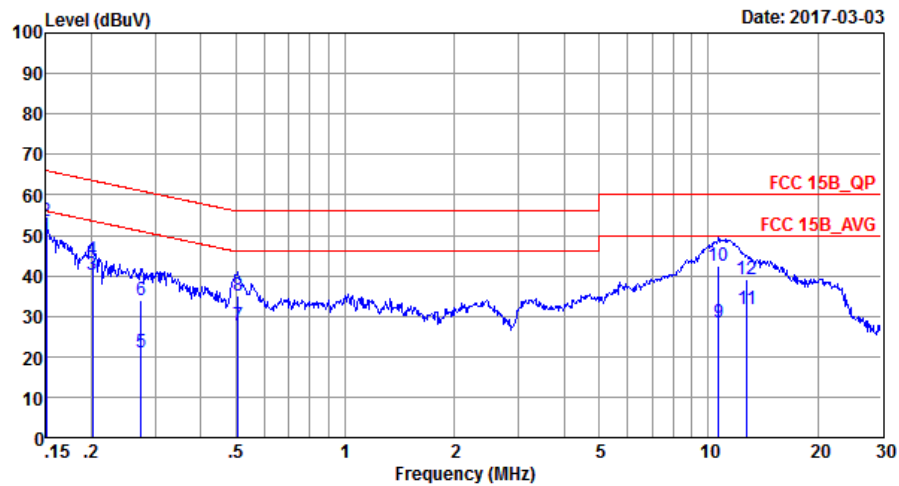


Site : C001-SZ
Condition: FCC 15B_QP LISN_20170301_L LINE
Project : (FC) 711703
Mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.15	52.64	-3.36	56.00	42.20	0.03	10.41	Average
2	0.15	56.74	-9.26	66.00	46.30	0.03	10.41	QP
3	0.20	42.05	-11.62	53.67	31.80	0.03	10.22	Average
4	0.20	44.95	-18.72	63.67	34.70	0.03	10.22	QP
5	0.52	24.20	-21.80	46.00	14.00	0.02	10.18	Average
6	0.52	33.70	-22.30	56.00	23.50	0.02	10.18	QP
7	1.00	22.42	-23.58	46.00	12.20	0.07	10.15	Average
8	1.00	29.82	-26.18	56.00	19.60	0.07	10.15	QP
9	11.93	28.57	-21.43	50.00	17.81	0.42	10.34	Average
10	11.93	37.07	-22.93	60.00	26.31	0.42	10.34	QP
11	14.59	25.81	-24.19	50.00	15.00	0.50	10.31	Average
12	14.59	37.31	-22.69	60.00	26.50	0.50	10.31	QP



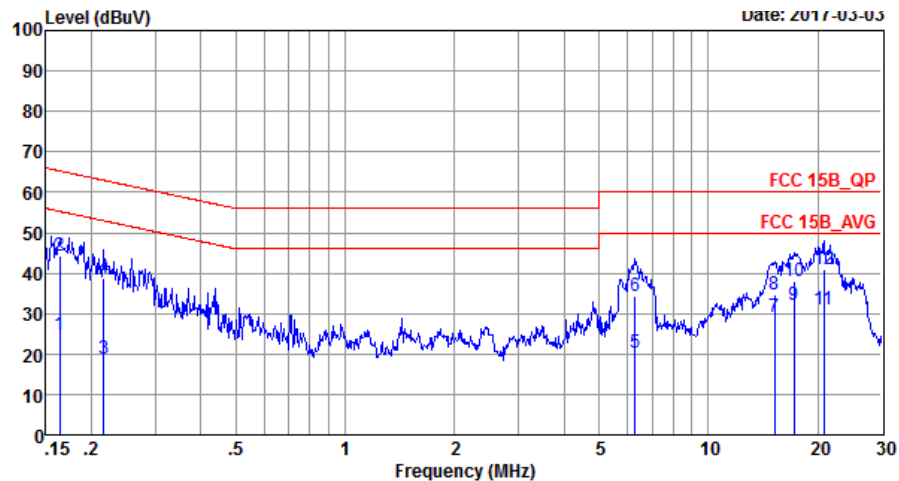
Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GPRS850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera (Rear)		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_20170301_N NEUTRAL
Project : (FC)711703
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.15	49.64	-6.36	56.00	39.20	0.03	10.41	Average
2	0.15	53.54	-12.46	66.00	43.10	0.03	10.41	QP
3	0.20	40.35	-13.19	53.54	30.10	0.03	10.22	Average
4	0.20	43.95	-19.59	63.54	33.70	0.03	10.22	QP
5	0.27	21.05	-29.93	50.98	10.80	0.03	10.22	Average
6	0.27	33.85	-27.13	60.98	23.60	0.03	10.22	QP
7	0.51	27.80	-18.20	46.00	17.60	0.02	10.18	Average
8	0.51	34.90	-21.10	56.00	24.70	0.02	10.18	QP
9	10.68	28.55	-21.45	50.00	18.00	0.19	10.36	Average
10	10.68	42.45	-17.55	60.00	31.90	0.19	10.36	QP
11	12.78	31.70	-18.30	50.00	21.11	0.26	10.33	Average
12	12.78	39.10	-20.90	60.00	28.51	0.26	10.33	QP

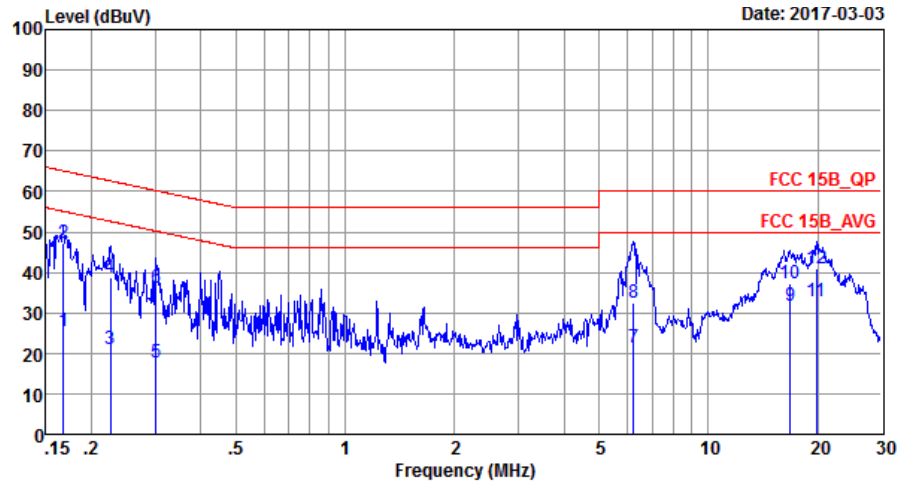
Test Mode :	Mode 4	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : C001-SZ
Condition: FCC 15B_QP LISN_20170301_L LINE
Project : (FC)711703
Mode : mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	24.68	-30.62	55.30	14.30	0.03	10.35	Average
2	0.16	44.28	-21.02	65.30	33.90	0.03	10.35	QP
3	0.22	18.85	-34.11	52.96	8.60	0.03	10.22	Average
4	0.22	38.65	-24.31	62.96	28.40	0.03	10.22	QP
5	6.29	20.43	-29.57	50.00	9.90	0.22	10.31	Average
6	6.29	34.23	-25.77	60.00	23.70	0.22	10.31	QP
7	15.23	29.06	-20.94	50.00	18.20	0.53	10.33	Average
8	15.23	34.86	-25.14	60.00	24.00	0.53	10.33	QP
9 *	17.20	32.05	-17.95	50.00	20.70	0.88	10.47	Average
10	17.20	37.85	-22.15	60.00	26.50	0.88	10.47	QP
11	20.81	30.95	-19.05	50.00	19.00	1.32	10.63	Average
12	20.81	40.85	-19.15	60.00	28.90	1.32	10.63	QP

Test Mode :	Mode 4	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : C001-SZ
Condition: FCC 15B_QP LISN_20170301_N NEUTRAL
Project : ((FC)711703
Mode : mode 4

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.17	25.37	-29.71	55.08	15.00	0.03	10.34	Average
2	0.17	47.07	-18.01	65.08	36.70	0.03	10.34	QP
3	0.23	21.05	-31.56	52.61	10.80	0.03	10.22	Average
4	0.23	38.75	-23.86	62.61	28.50	0.03	10.22	QP
5	0.30	17.55	-32.64	50.19	7.30	0.03	10.22	Average
6	0.30	36.15	-24.04	60.19	25.90	0.03	10.22	QP
7	6.22	21.48	-28.52	50.00	11.10	0.07	10.31	Average
8	6.22	32.38	-27.62	60.00	22.00	0.07	10.31	QP
9	16.84	31.68	-18.32	50.00	20.80	0.43	10.45	Average
10	16.84	37.38	-22.62	60.00	26.50	0.43	10.45	QP
11 *	19.84	32.82	-17.18	50.00	21.61	0.57	10.64	Average
12	19.84	41.12	-18.88	60.00	29.91	0.57	10.64	QP

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

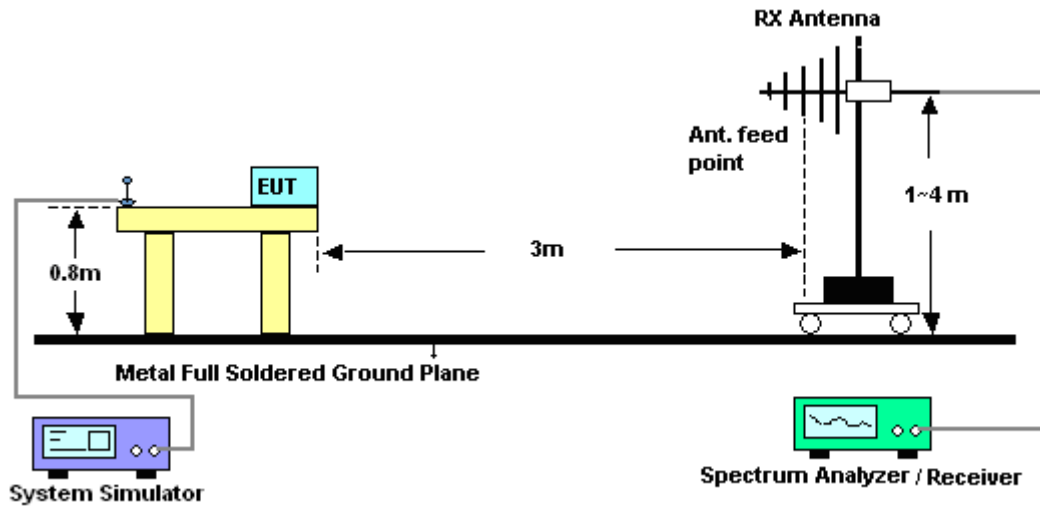
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

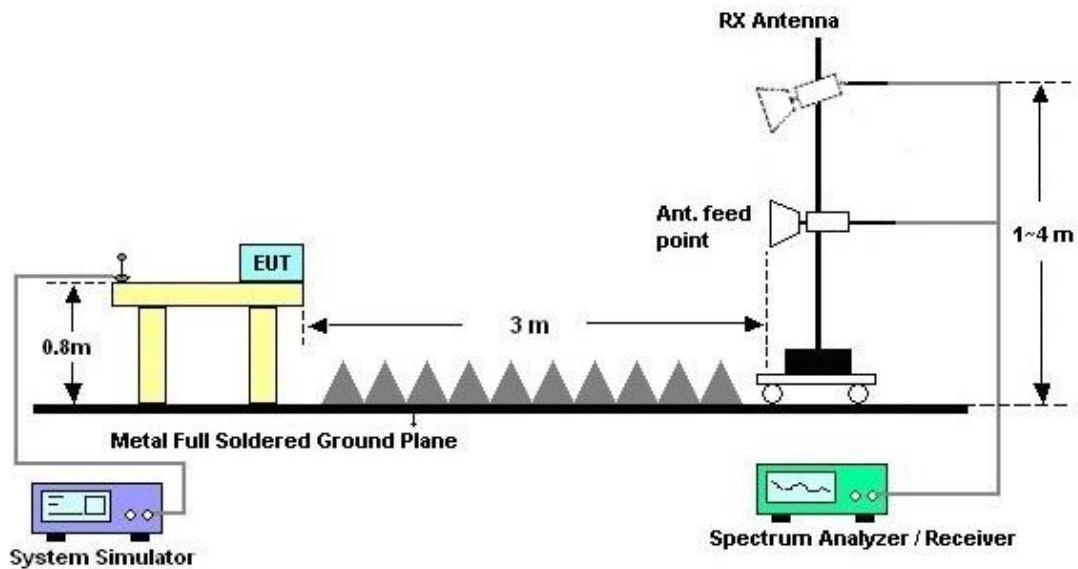
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

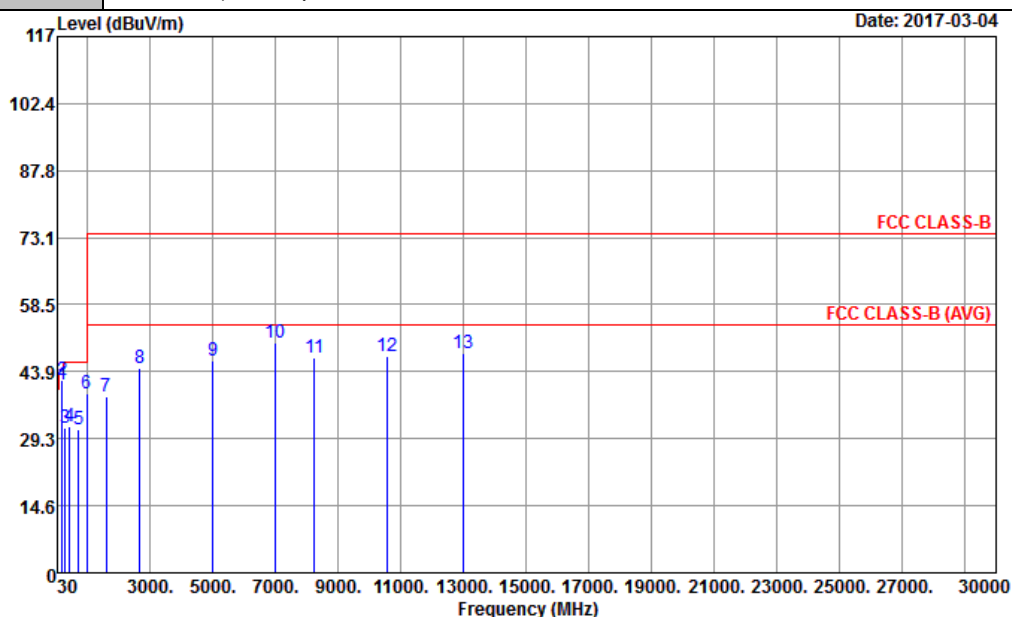


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Liangliang LU	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		

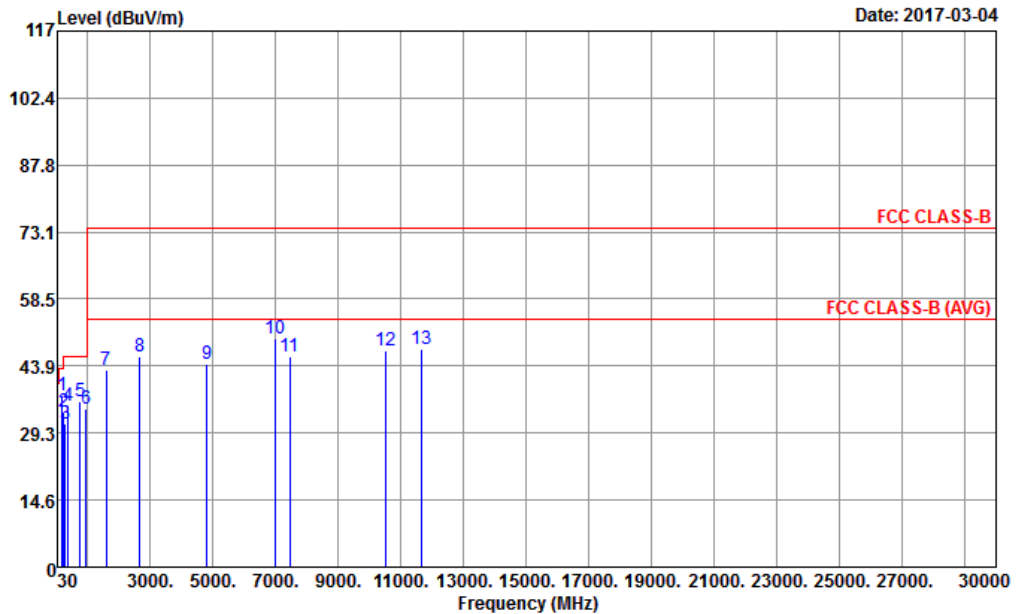


Site : 03CH03-SZ
 Condition : FCC CLASS-B 3m LF35408CBL6112D_6 HORIZONTAL
 Detector : Peak
 Project : (FC) 711703
 Mode : Mode 4

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	183.63	41.21	-2.29	43.50	55.13	16.33	1.14	31.39	155	200 QP
2	187.14	41.96	-1.54	43.50	56.00	16.16	1.17	31.37	120	60 QP
3	275.97	31.66	-14.34	46.00	42.90	18.58	1.55	31.37	---	---
4	415.50	31.82	-14.18	46.00	35.41	25.66	1.97	31.22	---	---
5	703.90	31.44	-14.56	46.00	32.39	27.67	2.63	31.25	---	---
6	960.10	39.08	-14.92	54.00	37.59	29.61	3.09	31.21	---	---
7	1596.00	38.46	-35.54	74.00	66.78	25.38	4.79	58.49	---	---
8	2658.00	44.63	-29.37	74.00	68.75	28.37	6.09	58.58	---	---
9	4998.00	46.27	-27.73	74.00	62.95	32.90	8.74	58.32	---	---
10	6980.00	50.05	-23.95	74.00	61.08	37.54	10.65	59.22	160	200 Peak
11	8226.00	46.98	-27.02	74.00	57.41	37.99	11.35	59.77	---	---
12	10576.00	47.10	-26.90	74.00	54.85	39.97	12.88	60.60	---	---
13	12990.00	47.94	-26.06	74.00	53.69	39.86	13.85	59.46	---	---



Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Liangliang LU	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : 03CH03-SZ
Condition : FCC CLASS-B 3m LF35408CBL6112D_6 VERTICAL
Detector : Peak
Project : (FC) 711703
Mode : Mode 4

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	183.36	37.47	-6.03	43.50	51.39	16.33	1.14	31.39	120	50 Peak
2	241.41	33.76	-12.24	46.00	46.14	17.58	1.42	31.38	---	---
3	275.97	31.26	-14.74	46.00	42.50	18.58	1.55	31.37	---	---
4	379.10	35.08	-10.92	46.00	40.77	23.69	1.88	31.26	---	---
5	758.50	36.23	-9.77	46.00	37.40	27.32	2.73	31.22	---	---
6	950.30	34.68	-11.32	46.00	33.40	29.42	3.06	31.20	---	---
7	1600.00	42.92	-31.08	74.00	71.24	25.38	4.79	58.49	---	---
8	2656.00	45.95	-28.05	74.00	70.21	28.28	6.04	58.58	---	---
9	4798.00	44.46	-29.54	74.00	61.41	32.49	8.90	58.34	---	---
10	6972.00	49.94	-24.06	74.00	61.02	37.49	10.65	59.22	150	50 Peak
11	7456.00	45.88	-28.12	74.00	56.73	37.69	10.94	59.48	---	---
12	10534.00	47.15	-26.85	74.00	54.99	39.99	12.84	60.67	---	---
13	11650.00	47.69	-26.31	74.00	54.24	39.62	13.50	59.67	---	---



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan. 06, 2017	Mar. 03, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	Mar. 03, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	Mar. 03, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 16, 2016	Mar. 03, 2017	Jul. 15, 2017	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 11, 2016	Mar. 03, 2017	Oct. 10, 2017	Conduction (CO01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	Mar. 04, 2017	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	May 07, 2016	Mar. 04, 2017	May 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Mar. 04, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2016	Mar. 04, 2017	May 06, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	Mar. 04, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz~3000MHz	Oct. 11, 2016	Mar. 04, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 11, 2016	Mar. 04, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 16, 2016	Mar. 04, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Mar. 04, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 04, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 04, 2017	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
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