FCC Test Report

APPLICANT: TCL Communication Ltd.

EQUIPMENT : GSM Quad-band / UMTS Quad-band /

LTE hexa-band mobile phone

BRAND NAME : alcatel MODEL NAME : 6055P

FCC ID : 2ACCJA019

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Mar. 31, 2016 and testing was completed on May 14, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager

lac-MRA



Report No.: FC611504-04

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

SPORTON INTERNATIONAL (KUNSHAN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC611504-04	Rev. 01	Initial issue of report	May 26, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	7.51 dB at
					0.540 MHz
					Under limit
2.0	15.109	09 Radiated Emission	< 15.109 limits	PASS	2.37 dB at
3.2					44.850 MHz for
					Quasi-Peak

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1. General Description

1.1. Applicant

TCL Communication Ltd.

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

1.2. Manufacturer

TCL Communication Ltd.

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

1.3. Product Feature of Equipment Under Test

Product Feature				
Equipment	GSM Quad-band / UMTS Quad-band / LTE hexa-band			
qp	mobile phone			
Brand Name	alcatel			
Model Name	6055P			
FCC ID	2ACCJA019			
	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/			
	HSPA+(16QAM uplink is not supported)/LTE/NFC			
FUT cumparts Badics application	WLAN 2.4GHz 802.11b/g/n HT20/HT40			
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
	Bluetooth v4.2 LE			
IMEI Code	Conduction: 358476070060750/358476070060768			
I INIEI Code	Radiation: 358476070060750/358476070060768			
HW Version	PIO			
SW Version	A2E			
EUT Stage	Identical Prototype			

Remark:

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

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1.4. Product Specification of Equipment Under Test

Ctandarda valated Draduct Consideration					
	related Product Specification				
	GSM850 : 824.2 MHz ~ 848.8 MHz				
	GSM1900: 1850.2 MHz ~ 1909.8MHz				
	WCDMA Band V : 826.4 MHz ~ 846.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
I I v Fraguancy	LTE Band 7: 2502.5 MHz ~ 2567.5 MHz				
	802.11b/g/n: 2412 MHz ~ 2472 MHz				
	802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;				
	5500 MHz ~ 5700 MHz ;				
	Bluetooth: 2402 MHz ~ 2480 MHz				
1	NFC: 13.56 MHz				
	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 II: 1932.4 MHz ~ 1987.6 MHz				
	LTE Band 7: 2622.5 MHz~ 2687.5 MHz				
I DV Fradilanci/	802.11b/g/n: 2412 MHz ~ 2472 MHz				
TX I requeitey	802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;				
	5500 MHz ~ 5700 MHz ;				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GPS: 1.57542 GHz				
	Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)				
	NFC: 13.56 MHz				
	WWAN : IFA Antenna				
	WLAN: IFA Antenna				
Antenna Type	Bluetooth: IFA Antenna				
	GPS/Glonass: IFA Antenna				
	NFC : LOOP Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: QPSK (Uplink)				
	HSDPA/DC-HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
	HSPA+ : (16QAM uplink is not supported)				
	DC-HSDPA: 64QAM				
Type of Modulation	LTE: QPSK / 16QAM				
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	Bluetooth v4.0 LE : GFSK				
	Bluetooth v4.2 LE : GFSK				
	Bluetooth (1Mbps): GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps): 8-DPSK				
	GPS/Glonass: BPSK				
	NFC: ASK				

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1.5. Modification of EUT

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

1.6. Test Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Cito No	Sporton Site No.		FCC Registration No.		
Test Site No.	CO01-KS	03CH02-KS	418269		

1.7. 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.

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1.8. Specification of Accessory

	Spec	ification of Accessory				
	Brand Name	ALCATEL onetouch	Model Name	UC13US		
AC Adapter 1	Power Rating	I/P: 100-240Vac, 400mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AG0C2				
	Brand Name	ALCATEL onetouch	Model Name	UC13US		
AC Adapter 2	Power Rating	I/P: 100-240Vac, 350n	I/P: 100-240Vac, 350mA, O/P: 5Vdc, 2000mA			
	P/N	CBA0059AG0C4	CBA0059AG0C4			
	Brand Name	N/A	Model Name	UC13US		
AC Adapter 3	Power Rating	I/P: 100-240Vac, 500n	nA, O/P: 5Vdc, 2	000mA		
	P/N	CBA0059AG4C1				
	Brand Name	alcatel	Model Name	UC13US		
AC Adapter 4	Power Rating	I/P: 100-240Vac, 350n	nA, O/P: 5Vdc, 2	000mA		
	P/N	CBA0059AGAC4				
	Brand Name	alcatel	Model Name	UC13US		
AC Adapter 5	Power Rating	I/P: 100-240Vac, 500mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AGAC1				
Battery 1	Brand Name	ALCATEL onetouch	Model Name	TLp026EJ		
Ballery I	Power Rating	3.85Vdc, 2610mAh				
Battery 2	Brand Name	ALCATEL onetouch	Model Name	TLp026E2		
Battery 2	Power Rating	3.84Vdc, 2610mAh	•	•		
Pottom: 2	Brand Name	alcatel	Model Name	TLp026EJ		
Battery 3	Power Rating	3.85Vdc, 2610mAh	•	-		
Pottom: 4	Brand Name	alcatel	Model Name	TLp026E2		
Battery 4	Power Rating	3.84Vdc, 2610mAh	•			
USB Cable 1	Brand Name	N/A	Model Name	CDA0000043C8		
USB Cable 1	Signal Line Type	1.0m shielded without core				
USB Cable 2	Brand Name	N/A		CDA0000043C2		
	Signal Line Type	1.0m shielded without		1000		
	Brand Name	alcatel	Model Name	J22C		
Earphone 1	Signal Line Type	1.4m non-shielded without core				
	P/N	CCB0029A10CC	Mandal No	Liooni		
Formbon - 0	Brand Name	alcatel	Model Name	J22H		
Earphone 2	Signal Line Type	1.0m non-shielded wit	nout core			
	P/N	CCB0047A10CC				

Note: The adapter 4, 5 and battery 3, 4 are just with different logo, all the designs are identical with adapter 2, 3 and battery 1, 2.

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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).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Те	st Condition	on
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)			
2.	Data application transferred mode	\boxtimes	\boxtimes	\boxtimes
	(EUT connected with notebook)			

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Battery 2 + Camera (Front) <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2 (Charging from Adapter 3) + Earphone 2 + Battery 2 + MPEG4 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Battery 2 + NFC On <fig.1></fig.1>
		Mode 5: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Battery 2 + Glonass Rx < Fig. 2>
		Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 1 (Data Link with Notebook) + Earphone 2 + Battery 2 + GPS Rx <fig.3></fig.3>
		Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 2 + Battery 2 + GPS Rx <fig.3></fig.3>

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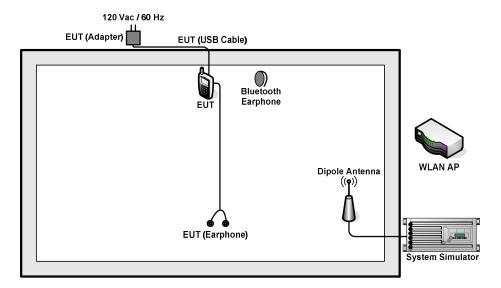
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Camera (Rear) <fig.1></fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Battery 2 + Camera (Front) <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 3) + Earphone 1 + Battery 1 + MPEG4 < Fig. 1>
Radiated Emissions < 1GHz		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + NFC On <fig.1></fig.1>
		Mode 5: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Glonass Rx < Fig.2>
		Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.3></fig.3>
		Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.3></fig.3>
Radiated	1/2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Battery 1 + Glonass Rx < Fig. 2>
Emissions ≥ 1GHz		Mode 2: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx <fig.3></fig.3>
_	1	

Remark:

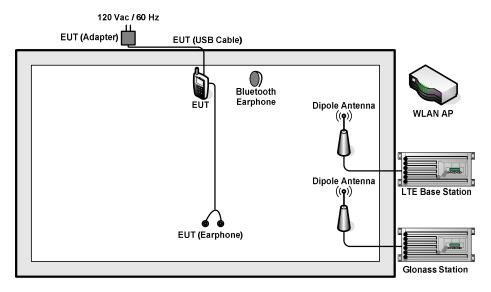
- 1. The worst case of AC is mode 4, and the USB Link mode of AC is mode 6, the test data of these modes were reported.
- The worst case of RE < 1G is mode 5, and the USB Link mode of RE is mode 7, the test data of these modes were reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



<Fig.1>

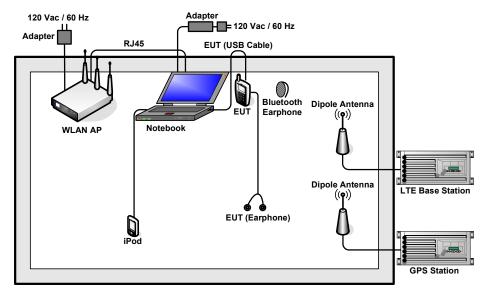


<Fig.2>

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<Fig.3>

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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	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritus	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
7.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
8.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	Unshielded, 0.5 m	N/A
9.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
10.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
11.	Notebook	DELL	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
12.	SD Card	Kingston	4GB	N/A	N/A	N/A
13.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
14.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was 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/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.
- 5. Turn on NFC function.

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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	Conducted limit (dBuV)		
(MHz)	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.

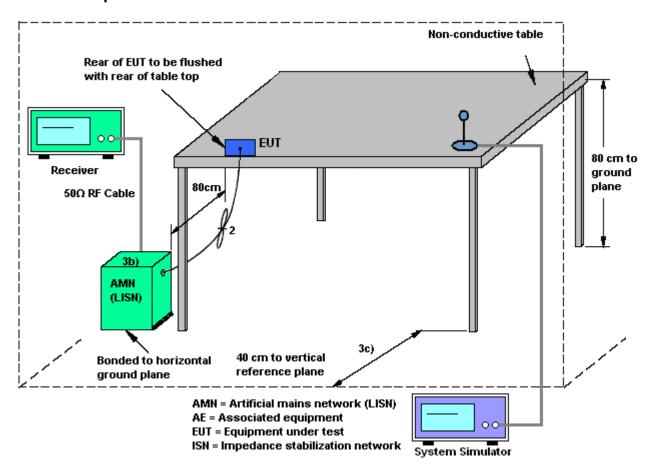
3.1.3 Test Procedure

- 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.

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3.1.4 Test Setup

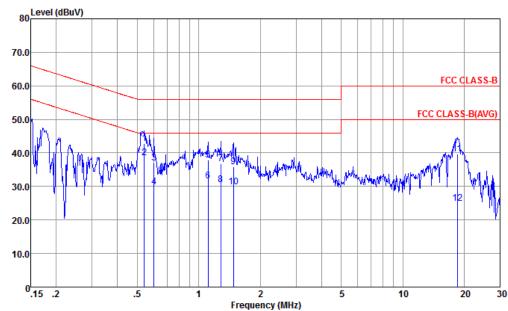


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 4	Temperature :	22~24 ℃						
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%						
Test Voltage :	120Vac / 60Hz	Phase: Line							
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Charging								
Function Type :	from Adapter 2) + Earphone 2 + Battery 2 + NFC On								
	_	_	_						



Site Condition

: CO01-KS : FCC CLASS-B LISN-L-20151024 LINE : (FC) 611504-04 Project

: Mode 4 mode

:356133070060750/356136070060768 #9

			0ver	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.54	42.89	-13.11	56.00	32.50	0.23	10.16	QP
2 *	0.54	38.49	-7.51	46.00	28.10	0.23	10.16	Average
3	0.60	36.99	-19.01	56.00	26.59	0.24	10.16	QP
4	0.60	29.89	-16.11	46.00	19.49	0.24	10.16	Average
5	1.11	37.88	-18.12	56.00	27.50	0.24	10.14	QP
6	1.11	31.68	-14.32	46.00	21.30	0.24	10.14	Average
7	1.28	36.66	-19.34	56.00	26.29	0.23	10.14	QP
8	1.28	30.56	-15.44	46.00	20.19	0.23	10.14	Average
9	1.48	35.95	-20.05	56.00	25.60	0.21	10.14	QP
10	1.48	29.95	-16.05	46.00	19.60	0.21	10.14	Average
11	18.52	39.56	-20.44	60.00	28.80	0.27	10.49	QP
12	18.52	24.86	-25.14	50.00	14.10	0.27	10.49	Average

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Test Mode :	Mode	4			Temp	erature	:	22~24	$\cdot^{\circ}\!\mathbb{C}$				
Test Engineer :	Amos	Zhang			Relati	ve Hun	nidity :	44~46	5%				
Test Voltage :	120Va	c / 60H	lz		Phase) :		Neutra	Neutral				
Function Type :			d II Idle 2) + Ea				,	•	+ USB Cable 2 (Cha				
80 Level	l (dBuV)												
70.0													
60.0									FCC CLASS-B				
50.0	VM au				Tr. L				FCC CLASS-B(AVG)				
40.0		<u> </u>		MA									
30.0	1	▎╢╢	64	√ * 1	10	12							
20.0	M	`											
10.0													
0.15	.2		.5	1		2 ency (MHz)	5		10 20 30				
Site Condition Project mode		: (FC) 61 : Mode 4	ASS-B LISN 11504-04										
			0ver	Limit	Read	LISN	Cable						
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark					
	MHz	dBuV	dB	dBuV	dBuV	dB	dB						
1 2 3 *	0.15	34.71	-17.30 -21.20 -12.31	55.91	24.30	0.30	10.11 10.11 10.16	Average					
4 5	0.54 0.58	33.09 40.79	-12.91 -15.21	46.00 56.00	22.61 30.30	0.32 0.33	10.16 10.16	Average QP					
6 7 8 9	0.98 0.98	34.10 23.10	-16.91 -21.90 -22.90 -21.28	56.00 46.00	23.59 12.59	0.37 0.37	10.14	Average					
10 11 12	1.55 2.68	21.72 31.62	-24.28 -24.38 -24.18	46.00 56.00	11.20 21.10	0.38 0.37		Average QP					

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Test Voltage : 120V Function Type : Notes 80 Level (dBuV) 70.0 40.0 30.0 10.0 20.0 10.0 20.0 10.0 Free MHz 1 * 0.16	Vac / 60Hz Band 7 Idle + Bluetooth ebook) + Earphone 2 + B	Pattery 2 + GPS 2 Frequency (MHz)	(5G) Idle	A the top to the top t	FCC CLASS-B(AVG)
Function Type: Noted 80 Level (dBuV) 70.0 60.0 40.0 30.0 10.0 10.0 20.0 Site Condition Project mode Free MHz 1 * 0.16	E Band 7 Idle + Bluetooth ebook) + Earphone 2 + B	Idle + WLAN (Sattery 2 + GPS 2 Frequency (MHz)	S Rx	+ USB	FCC CLASS-B(AVG)
Notes Notes Role (dBuV) 70.0 60.0 40.0 10.0 10.0 20.0 10.0 Site Condition Project mode Free MHz 1 * 0.16	ebook) + Earphone 2 + B // .5 1 : C001-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Pattery 2 + GPS 2 Frequency (MHz)	S Rx	A the top to the top t	FCC CLASS-B(AVG)
Notes 80 Level (dBuV) 70.0 60.0 50.0 40.0 20.0 10.0 20.0 10.0 Free MHz 1 * 0.16	.5 1 : CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	2 Frequency (MHz)	AL PHYTH W	1 1	FCC CLASS-B(AVG)
70.0 60.0 40.0 30.0 10.0 10.0 10.0 10.0 Free MHz 1 * 0.16	.5 1 : C001-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	J	1 1	FCC CLASS-B(AVG)
60.0 40.0 30.0 10.0 10.0 10.0 10.0 10.0 Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Jun 1949 1947 1947 1947 1947 1947 1947 1947	1 1	FCC CLASS-B(AVG)
60.0 40.0 30.0 10.0 10.0 10.0 10.0 Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Jun 1949 1947	1 1	FCC CLASS-B(AVG)
50.0 40.0 30.0 10.0 10.0 10.0 10.0 Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Ju. (1 ⁴ 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	FCC CLASS-B(AVG)
30.0 20.0 10.0 20.15 .2 Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	JL (1 ⁴ 1) ⁴ 11 W	1 1	aprilipativalipativality
30.0 20.0 10.0 20.15 .2 Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Ju. 1849 1940 1950 1950 1950 1950 1950 1950 1950 195	1 1	aprilipativalipativality
30.0 20.0 10.0 10.0 10.0 10.0 10.0 10.0 1	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Ju. (1999)	1 1	A GOOD AND A STATE OF THE STATE
20.0 10.0 10.0 10.15 .2 Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	Jun 1949 1947	1 1	A GOOD AND A STATE OF THE STATE
20.0 10.0 10.0 10.15 .2 Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-201510; : (FC) 611504-04 : Mode 6	Frequency (MHz)	5	1 1	A GOOD AND A STATE OF THE PERSON OF THE PERS
Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	5		10 20 30
Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	5		10 20 30
Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	5		10 20 30
Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	5		10 20 30
Site Condition Project mode Free MHz 1 * 0.16	: CO01-KS : FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6	Frequency (MHz)	5		10 20 3
Condition Project mode Free MHz 1 * 0.16	: FCC CLASS-B LISN-L-2015102 : (FC) 611504-04 : Mode 6				
Project mode Free MHz 1 * 0.16	: (FC) 611504-04 : Mode 6				
Fred 		070060768 #9			
1 * 0.16					
1 * 0.16	Over Limit	Read LISN	Cable		
1 * 0.16	eq Level Limit Line	Level Factor	Loss R	emark	
	Hz dBuV dB dBuV	dBuV dB	dB -		_
	16 42.20 -23.49 65.69	31.60 0.49	10.11 Q	P	
	16 31.50 -24.19 55.69		10.11 A		
3 0.17	17 37.14 -28.07 65.21	26.60 0.42	10.12 Q		
4 0.17			10.12 A	_	
	23 29.56 -32.83 62.39		10.14 Q	•	
	23 21.16 -31.23 52.39		10.14 A	_	
			10.17 Q		
8 0.46			10.17 A	_	
	44 29.60 -27.55 57.15		10.17 Q	•	
10 0.44 11 0.79	44 22.30 -24.85 47.15 79 26.59 -29.41 56.00		10.17 A	_	
	79 18.69 -27.31 46.00		10.15 Q		

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		6			Temp	:	22~24 ℃				
Test Engineer :	Amos	Zhang			Relati	ve Hun	nidity :	44~46	3%		
Test Voltage :	120Vac / 60Hz Phase : Neutral										
	LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 1 (Data Li								ata Link		
Function Type :						2 + GP	, ,			,	
80 Level	(dBuV)										
70.0											
										FCC (1466 0
60.0										FCCC	LASS-B
50.0										FCC CLASS	-B(AVG)
40.0	A III									1	
30.0			1 ₁₄ ,1/1 ₄ ,1/1	Labrill Paller	ALAM POPULATION AND A	MARINA HAND	A PAPATANA	AT TO COMPANY	M	MANAGARIAN AND AND AND AND AND AND AND AND AND A	
20.0	4.	4 6 WIF	N _W ATINAPY () Lining - Alban	he.	" "W	12			- THE PARTY OF THE	
20.0										"ነ	Majorphala
10.0									H		
0.15	2		5	1		2 ency (MHz)	5		10	0 2	20 30
Site Condition		: CO01-R	CS ASS-B LISN	I-N-20151	024 NEUT	'RAL					
Project mode		: (FC) 61 : Mode 6	1504-04								
		: 356133	807006075	0/356136	07006076	58 #9					
	Frea	Level	Over Limit	Limit Line	Read Level		Cable Loss	Remark			
								Temar K			
	MHz	dBuV	dB	dBuV	dBuV	dB	dB				
1 2	0.17 0.17		-28.19 -31.29				10.12	QP Average			
3	0.19		-30.29				10.12	_			
4			-29.69				10.12				
5	0.40		-29.17								
6	0.40		-27.07					Average			
7 8 *	0.48		-26.54					•			
8 * 9	0.48 0.78		-21.04 -29.20					Average np			
10			-24.90					رر Average			
11			-27.26					_			
12				46.00				ι. Average			

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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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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 (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

SPORTON INTERNATIONAL (KUNSHAN) INC.

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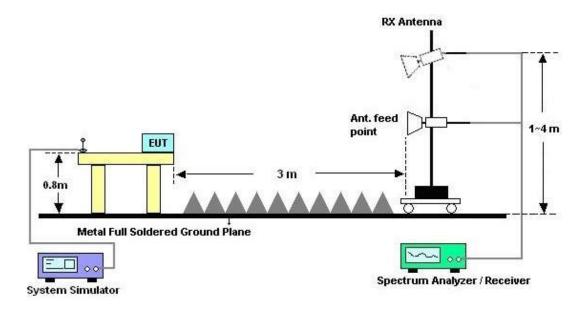
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

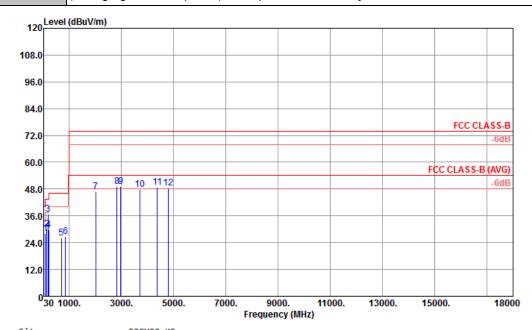


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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 5	Temperature :	21~22°C				
Test Engineer :	Jack Wang	Relative Humidity :	41~42%				
Test Distance :	m Polarization : Horizontal						
Function Tune	WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1						
Function Type :	(Charging from Adapter 1) +	Earphone 1 + Battery	1 + Glonass Rx				



Site : 03CH02-KS

Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL

Project : (FC) 611504-04

Mode : 5

IMEI : #9 356133070060750 356133070060768

			Over	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	96.96	28.06	-15.44	43.50	40.46	17.77	0.23	30.40			Peak	HORIZONT
2	155.82	30.05	-13.45	43.50	42.80	17.32	0.33	30.40			Peak	HORIZONT
3	196.86	36.92	-6.58	43.50	51.52	15.39	0.41	30.40	136	98	Peak	HORIZONT
4	223.05	29.65	-16.35	46.00	43.38	16.27	0.45	30.45			Peak	HORIZONT
5	712.30	26.08	-19.92	46.00	28.62	26.66	1.22	30.42			Peak	HORIZONT
6	870.50	26.74	-19.26	46.00	28.34	27.37	1.51	30.48			Peak	HORIZONT
7	2020.00	46.91	-27.09	74.00	46.41	30.56	4.61	34.67			Peak	HORIZONT
8	2844.00	49.21	-24.79	74.00	42.00	32.18	2.81	27.78			Peak	HORIZONT
9	2974.00	49.06	-24.94	74.00	42.06	32.52	3.09	28.61			Peak	HORIZONT
10	3720.00	47.67	-26.33	74.00	38.38	34.37	6.34	31.42			Peak	HORIZONT
11	4383.00	48.70	-25.30	74.00	39.89	35.23	4.93	31.35			Peak	HORIZONT
12	4788.00	48.45	-25.55	74.00	40.40	35.02	6.09	33.06			Peak	HORIZONT

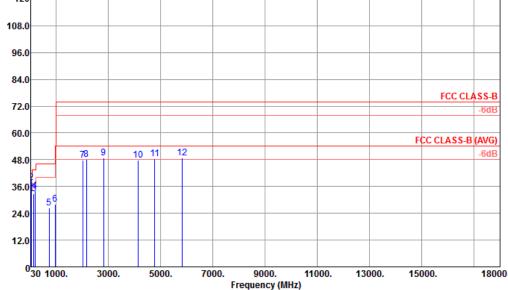
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Report No. : FC611504-04

Report No. : FC611504-04

Test Mode :	Mode 5	Temperature :	21~22°C					
Test Engineer :	Jack Wang	Relative Humidity :	41~42%					
Test Distance :	3m	Polarization :	Vertical					
Eurotion Type	WCDMA Band II Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable 1							
Function Type :	(Charging from Adapter 1) +	Earphone 1 + Battery	1 + Glonass Rx					

(Charging from Adapter 1) + Earphone 1 + Battery 1 + 120 Level (dBuV/m) 108.0 96.0



Site : 03CH02-KS

Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL

Project : (FC) 611504-04 Mode

: #9 356133070060750 356133070060768 IMEI

	Freq	Level	Over Limit	Limit Line		ntenna Factor		Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 !	36.21	35.38	-4.62	40.00	41.86	24.30	0.12	30.90			Peak	VERTICAL
2 !	44.85	37.63	-2.37	40.00	48.80	19.50	0.13	30.80	100	238	QP	VERTICAL
3	151.77	32.61	-10.89	43.50	45.17	17.51	0.33	30.40			Peak	VERTICAL
4	198.21	34.04	-9.46	43.50	48.64	15.39	0.41	30.40			Peak	VERTICAL
5	730.50	26.30	-19.70	46.00	29.05	26.42	1.29	30.46			Peak	VERTICAL
6	960.80	28.18	-25.82	54.00	28.28	28.66	1.76	30.52			Peak	VERTICAL
7	2020.00	47.65	-26.35	74.00	47.15	30.56	4.61	34.67			Peak	VERTICAL
8	2162.00	48.04	-25.96	74.00	45.72	31.03	5.65	34.36			Peak	VERTICAL
9	2826.00	48.80	-25.20	74.00	41.68	32.14	2.76	27.78			Peak	VERTICAL
10	4155.00	47.73	-26.27	74.00	38.01	35.08	6.53	31.89			Peak	VERTICAL
11	4773.00	48.54	-25.46	74.00	40.41	35.03	6.00	32.90			Peak	VERTICAL
12	5841.00	48.88	-25.12	74.00	42.51	35.12	6.47	35.22			Peak	VERTICAL

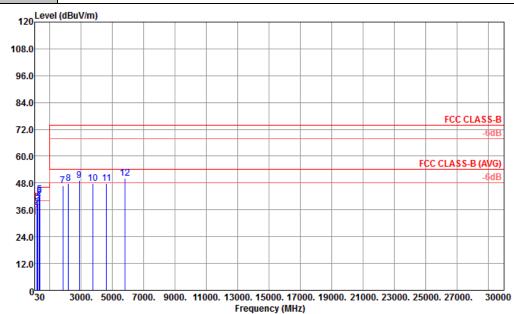
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Report No.: FC611504-04

Test Mode :	Mode 7	Temperature :	21~22°C					
Test Engineer :	Jack Wang	Relative Humidity :	41~42%					
Test Distance :	3m	Polarization :	Horizontal					
	TE Band 7 Idla + Blustooth Idla + WI AN /FC Idla + USB Cable 2 /Data Link w							

LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Function Type: Notebook) + Earphone 1 + Battery 1 + GPS Rx



Site : 03CH02-KS

Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL

Project : (FC) 611504-04

Mode

: #9 356133070060750 356133070060768 IMEI

			Over	Limit	ReadA	ntenna	Cable	Preamp	A/Pos	T/Pos		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark	Pol/Phas
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	155.55	35.87	-7.63	43.50	48.62	17.32	0.33	30.40			Peak	HORIZONT
2	165.54	37.13	-6.37	43.50	50.32	16.86	0.35	30.40			Peak	HORIZONT
3	239.25	38.74	-7.26	46.00	51.82	16.92	0.48	30.48			Peak	HORIZONT
4 !	314.70	40.32	-5.68	46.00	51.62	18.60	0.63	30.53			Peak	HORIZONT
5 !	335.00	42.72	-3.28	46.00	53.01	19.60	0.68	30.57			Peak	HORIZONT
6 !	344.80	42.12	-3.88	46.00	51.90	20.10	0.71	30.59	100	272	QP	HORIZONT
7	1834.00	46.76	-27.24	74.00	48.29	29.40	4.57	35.50			Peak	HORIZONT
8	2190.00	47.76	-26.24	74.00	45.13	31.14	5.80	34.31			Peak	HORIZONT
9	2876.00	49.13	-24.87	74.00	42.07	32.27	2.90	28.11			Peak	HORIZONT
10	3765.00	47.86	-26.14	74.00	38.39	34.52	6.44	31.49			Peak	HORIZONT
11	4620.00	47.84	-26.16	74.00	39.18	35.18	5.38	31.90			Peak	HORIZONT
12	5781.00	50.30	-23.70	74.00	44.36	35.22	6.75	36.03			Peak	HORIZONT

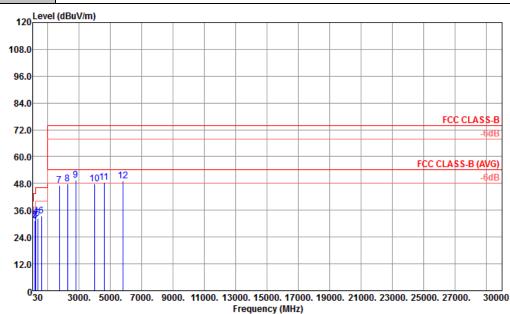
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FCC Test Report No.: FC611504-04

Test Mode :	Mode 7	Temperature :	21~22°C				
Test Engineer :	Jack Wang	Relative Humidity :	41~42%				
Test Distance :	3m	Polarization :	Vertical				
F T	LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with						

Function Type: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable 2 (Data Link with Notebook) + Earphone 1 + Battery 1 + GPS Rx



Site : 03CH02-KS

Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL

Project : (FC) 611504-04 Mode : 7

IMEI : #9 356133070060750 356133070060768

			0ver	Limit	ReadA	Intenna	Cable	Preamp	A/Pos	T/Pos		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	155.28	31.18	-12.32	43.50	43.93	17.32	0.33	30.40			Peak	VERTICAL
2	165.27	31.58	-11.92	43.50	44.77	16.86	0.35	30.40	125	87	Peak	VERTICAL
3	196.05	31.42	-12.08	43.50	45.93	15.48	0.41	30.40			Peak	VERTICAL
4	239.25	33.30	-12.70	46.00	46.38	16.92	0.48	30.48			Peak	VERTICAL
5	344.80	32.44	-13.56	46.00	42.22	20.10	0.71	30.59			Peak	VERTICAL
6	598.20	33.54	-12.46	46.00	38.52	24.32	0.90	30.20			Peak	VERTICAL
7	1742.00	47.03	-26.97	74.00	49.33	29.23	4.43	35.96			Peak	VERTICAL
8	2268.00	47.83	-26.17	74.00	44.74	31.27	5.72	33.90			Peak	VERTICAL
9	2770.00	49.40	-24.60	74.00	43.12	32.03	2.81	28.56			Peak	VERTICAL
10	3981.00	47.93	-26.07	74.00	38.80	34.81	6.03	31.71			Peak	VERTICAL
11	4602.00	48.33	-25.67	74.00	39.48	35.20	5.38	31.73			Peak	VERTICAL
12	5790.00	49.13	-24.87	74.00	42.95	35.19	6.75	35.76			Peak	VERTICAL

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 29, 2016	May 12, 2016	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	May 12, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	May 12, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	May 12, 2016	Oct. 23, 2016	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 10, 2015	May 14, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44G,MAX 30dB	Apr. 22, 2016	May 14, 2016	Apr. 21, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Mar. 12, 2016	May 14, 2016	Mar. 11, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	May 14, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz ~40GHz	Mar. 03, 2016	May 14, 2016	Mar. 02, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	May 14, 2016	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 24, 2015	May 14, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18~40GHz	Jan. 20, 2016	May 14, 2016	Jan. 19, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	May 14, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	May 14, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	May 14, 2016	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.3dB		
Confidence of 95% (U = 2Uc(y))	2.3uB		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	5.1dB
Confidence of 95% (U = 2Uc(y))	5.1UB

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