FCC Test Report

APPLICANT : TCL Communication Ltd

EQUIPMENT: GSM Quad-band / UMTS Quad-band

LTE 6 band mobile phone

Report No.: FC511301-30

Testing Laboratory 2627

: 1 of 34

: Rev. 01

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Page Number

Report Version

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : 6045I

MARKETING NAME : ALCATEL ONETOUCH IDOL 3 (5.5)

FCC ID : 2ACCJN002

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product testing was completed on Mar. 02, 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 C63.4-2009 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

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC511301-30	Rev. 01	This is a variant product of 6045I. Added a new battery, and only the worst cases of conducted emission and radiated emission from original test report (Sporton Report Number FC511301-03) were verified for the difference and the original test data were remain representative.	Mar. 07, 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	5.57 dB at
					0.520 MHz
		15.109 Radiated Emission	< 15.109 limits	PASS	Under limit
3.2	15.109				1.89 dB at
3.2					237.580 MHz
					for Quasi-Peak

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1. General Description

1.1. Applicant

TCL Communication Ltd

FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL

1.2. Manufacturer

TCL Communication Ltd

FLAT/RM 1910-12A BLOCK 3 19/F CHINA HONG KONG CITY 33 CANTON ROAD TSIMSHATSUI KL

1.3. Product Feature of Equipment Under Test

Product Feature					
Equipment	GSM Quad-band / UMTS Quad-band / LTE 6 band mobile PHONE				
Brand Name	ALCATEL ONETOUCH				
Model Name	60451				
Marketing Name	ALCATEL ONETOUCH IDOL 3 (5.5)				
FCC ID	2ACCJN002				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE/NFC/ WLAN2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.1 LE				
HW Version	PIO				
SW Version	7S25				
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 subjective to this standard

Product Specification subjective to this standard					
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 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz~713.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 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 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz~743.5 MHz LTE Band 17: 736.5 MHz~743.5 MHz B02.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + nx 0.5625MHz (n=-7,-6,-5,0,,6) NFC: 13.56 MHz				

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Product Specification subjective to this standard					
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA 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-HSDAP: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (uplink is not supported) DC-HSDAP: 64QAM				
Type of Modulation	LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.1 LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : \pi /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS / Glonass : BPSK NFC: ASK				

1.5. Accessories and Support Equipment

	Specification of Accessory					
AC Adamtar	Brand Name	ALCATEL ONETOUCH	Model Name	UC13US		
AC Adapter	Power Rating	I/P: 100-240Vac, 500mA, O/P: 5Vdc, 2000mA				
	P/N	CBA0059AG0C1				
Original Battamy	Brand Name	ALCATEL ONETOUCH	Model Name	TLp029A2-S		
Original Battery	Power Rating	3.8Vdc, 2910mAh	1			
	S/N	C2910002C2Y00	42G			
Added Dettern	Brand Name	ALCATEL ONETOUCH	Model Name	TLp029AJ		
Added Battery	Power Rating	3.8Vdc, 2910mAh				
	S/N	C2910003CJY9411D				
USB Cable	Brand Name	ALCATEL ONETOUCH	Model Name	CDA0000043C2		
	Signal Line Type	1.10m shielded w	ithout core			
Earphone 1	Brand Name	ALCATEL ONETOUCH	Model Name	CCA0001A10C9		
	Signal Line Type	1.16m non-shielded without core				
Fornbono 2	Brand Name	JBL	Model Name	CCB0029A10CC		
Earphone 2	Signal Line Type	1.38m non-shield	ed without core			

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1.6. Modification of EUT

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

1.7. 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 Cita No	Sportor	Sporton Site No. FCC Registration		
Test Site No.	CO01-KS	03CH02-KS	149928	

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 C63.4-2009

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

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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 C63.4-2009 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.

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

Abbreviations:

EMI AC: AC conducted emissions

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

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

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

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

Remark:

- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 5, the test data of these modes were reported.
- 2. The worst case of RE < 1G is mode 5; only the test data of this mode was reported.
- 3. Link with notebook means data application transferred mode between EUT and notebook.

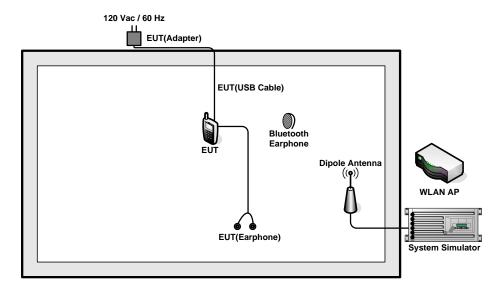
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Test Mode for Spot Check

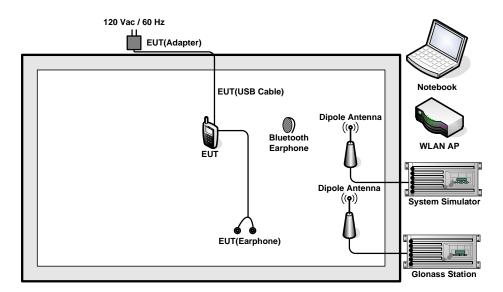
Test Items	EUT Configure Mode	Function Type			
AC Conducted	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Battery + Earphone 2 + Camera <fig.1></fig.1>			
Emission		Mode 2: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Battery + Earphone 2 + GPS Rx <fig.3></fig.3>			
Radiated Emissions	2	Mode 1: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Battery + Earphone 2 + GPS Rx <fig.3></fig.3>			

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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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Adapter = 120 Vac / 60 Hz

EUT(USB Cable)

Bluetooth Earphone Dipole Antenna ((9))

Dipole Antenna ((9))

LTE Base Station

<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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
3.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
4.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
7.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
8.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
9.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
11.	SD Card	Kingston	4GB	N/A	N/A	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 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. Execute "Video Player" to play MPEG4 files.
- 3. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 4. Turn on camera to capture images.
- 5. Turn on NFC function

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3. Test Result

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

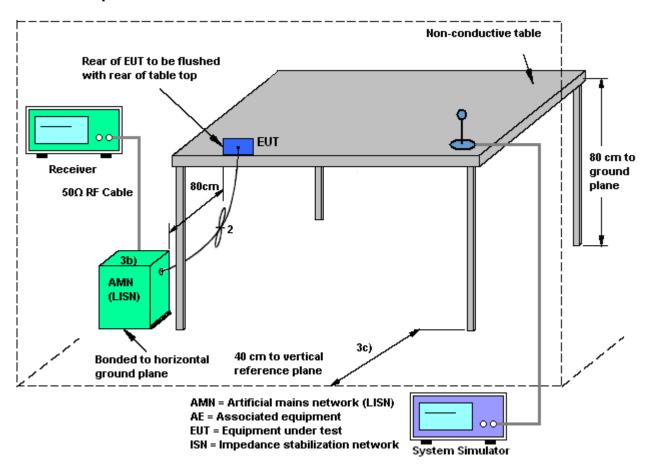
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.
- 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 1			perature	:	22~24°ℂ		
Гest Engineer :	Eko Guan			ative Hun	nidity :	: 30~33%		
Test Voltage :	120Vac / 60	Hz	Pha	ise :		Line		
Function Type :	GSM850 Id Adapter) + E	le + Bluetoc Battery + Ea			,) + US	3 Cable (C	Charging fr
80 Leve	I (dBuV)							
70.0								
60.0							FCC	CLASS-B
50.0		1					FCC CLAS	SS-B(AVG)
40.0			MANA MASA			JAN. L.	Mulh	MANA A
30.0	THE WAY	PY Y		V	V '	M L. JAN	AND A	I V V V V
20.0								
10.0								
0 <mark>.15</mark>	.2	.5	1 Ero	2 equency (MHz	5		10	20 30
Site Condition	: CO0 : FCC	1-KS CLASS-B LISN-I			,			
mode	: Mod	e 1 Over Limit	Read I	LISN Cable				
	Freq Level	Limit Line			Remark	_		
1	MHz dBuV	dB dBuV	dBuV	dB dB				
1 2 * 3 4 5 6 7 8 9 10	0. 59 40. 73 · 0. 59 34. 43 · 1. 24 39. 36 · 1. 24 33. 56 · 1. 47 39. 68 · 1. 47 33. 68 ·	-9.67 56.00 -5.57 46.00 -13.97 56.00 -10.97 46.00 -15.27 56.00 -16.64 56.00 -12.44 46.00 -12.44 46.00 -12.32 46.00 -12.32 46.00 -16.41 56.00	29. 60 (31. 20 (24. 20 (29. 90 (23. 60 (22. 80 (22. 90 (22. 90 (22. 90 (22. 90 (22. 90 (24. 20	0, 20 10, 63 0, 10 10, 66 0, 10 10, 66 0, 10 10, 68 0, 10 10, 68 0, 10 10, 68	Average QP Average QP Average QP Average QP Average			

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22~24℃ Test Mode: Mode 1 Temperature: Test Engineer: Eko Guan **Relative Humidity:** 30~33% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Function Type: Adapter) + Battery + Earphone 1 + Camera 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 0.15 .2 5 10 20 30 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-B LISN-N20140306 NEUTRAL mode : Mode 1 Read 0ver Limit LISN Cable Freq Limit Level Factor Loss Remark Line MHz dBuV dB dBuV dBuV dB 38. 82 -17. 18 29. 72 -16. 28 36. 31 -19. 69 26. 81 -19. 19 36. 27 -19. 73 25. 57 -20. 43 33. 56 -22. 44 24. 26 -21. 74 34. 28 -21. 72 25. 28 -20. 72 33. 00 -23. 00 24. 20 -21. 80 56.00 46.00 56.00 46.00 56.00 46.00 27. 90 18. 80 25. 40 15. 90 0. 52 0. 52 0. 55 0. 55 0. 29 0. 29 0. 28 0. 28 10.63 QP 10.63 Av 1 2 3 4 5 6 7 8 9 Average 10.63 QP 10.63 Average 0. 60 0. 60 1. 22 1. 22 1. 50 0. 28 0. 24 0. 24 0. 10 0. 10 0. 10 25. 40 14. 70 22. 80 10.63 Average 10.66 QP 46. 00 56. 00 46. 00 56. 00 46. 00 13. 50 23. 50 14. 50 22. 20 13. 40 10.66 Average 10.68 QP 10.68 Average 10.70 QP 10

0.10 0.10

11 12

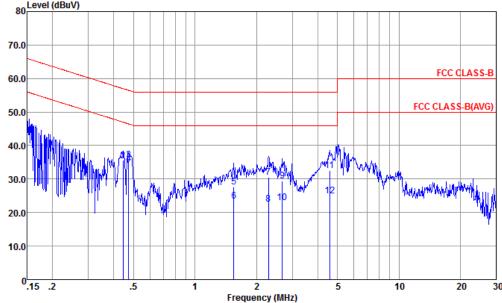
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22~24℃ Test Mode: Mode 5 Temperature : Test Engineer: Eko Guan Relative Humidity: 30~33% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with **Function Type:** Notebook) + Battery + Earphone 1 + GPS Rx 80 Level (dBuV)



IISN Cable

Site : CO01-KS

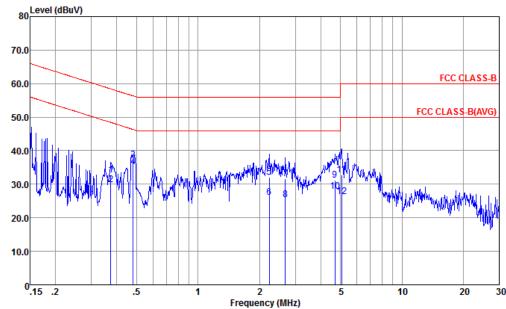
Condition : FCC CLASS-B LISN-L20140306 LINE

mode : Mode 5

	Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0. 44 0. 47 0. 47 1. 55 1. 55 2. 30 2. 30 2. 68 2. 68 4. 57 4. 57	35. 48 35. 65 34. 45 27. 59 23. 39 30. 42 22. 42 29. 47 22. 97 32. 54	-21. 30 -11. 50 -20. 80 -12. 00 -28. 41 -25. 58 -23. 58 -23. 03 -23. 03 -23. 04	56. 45 46. 45 56. 00 46. 00 56. 00 46. 00 56. 00 46. 00	24. 81 24. 61 24. 81 23. 61 16. 80 12. 60 19. 59 11. 59 18. 60 12. 10 21. 51 13. 91	0. 22 0. 22 0. 10 0. 10 0. 11 0. 11 0. 12 0. 12	10. 62 10. 69 10. 69 10. 72 10. 72 10. 75 10. 75 10. 84	Average QP Average QP Average QP Average QP Average	
12	2.01	21.01	21.00	40.00	10.01	0.15	10.01	erage	

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22~24℃ Test Mode: Mode 5 Temperature : Test Engineer: Eko Guan Relative Humidity: 30~33% 120Vac / 60Hz Test Voltage: Phase: Neutral LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with **Function Type:** Notebook) + Battery + Earphone 1 + GPS Rx



Site : CO01-KS

Condition : FCC CLASS-B LISN-N20140306 NEUTRAL

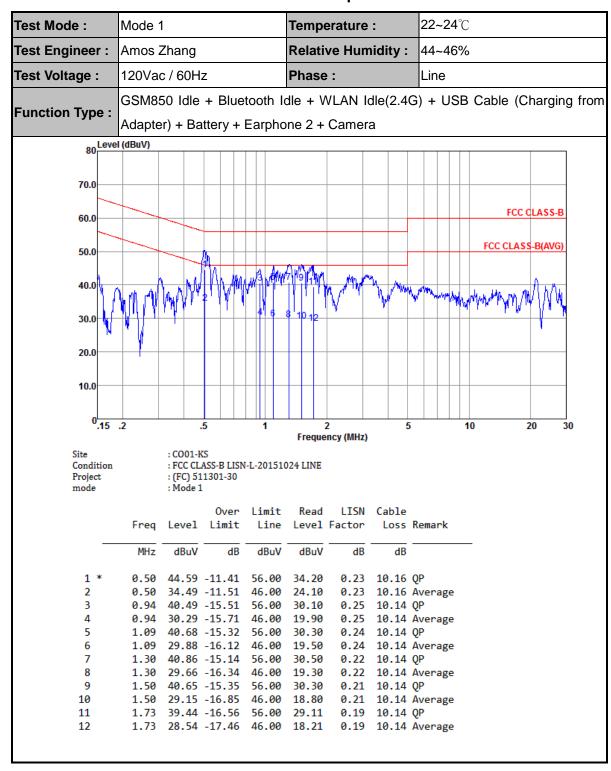
: Mode 5 mode

Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
4 * 0.48 5 2.24 6 2.24 7 2.68 8 2.68 9 4.70 10 4.70	32. 66 - 29. 86 - 37. 24 - 35. 14 - 32. 12 - 26. 12 - 31. 67 - 25. 47 - 31. 24 - 27. 84 - 32. 85 - 26. 35 -	-18. 57 -19. 08 -11. 18 -23. 88 -19. 88 -19. 88 -24. 33 -20. 53 -24. 76 -18. 16 -27. 15	56.00 46.00 56.00	21. 60 18. 80 26. 31 24. 21 21. 30 15. 30 20. 80 14. 60 20. 20 16. 80 21. 80 15. 30	0.31 0.31 0.11 0.11 0.12 0.12 0.20 0.20	10. 62 10. 62 10. 71 10. 71 10. 75 10. 75 10. 84 10. 84 10. 85	Average QP Average QP Average QP Average QP Average

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3.1.6 Test Result of AC Conducted Emission for Spot Check



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22~24℃ Test Mode: Mode 1 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~46% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from **Function Type:** Adapter) + Battery + Earphone 2 + Camera 80 Level (dBuV) 70.0 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 0.15 .2 .5 1 5 20 30 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL Project : (FC) 511301-30 mode : Mode 1 0ver Limit Read LISN Cable Freq Loss Remark line Level Factor Level Limit MHz dBuV dBuV dBuV dB dB dB 0.51 42.98 -13.02 56.00 0.32 10.16 QP 1 32.50 0.32 10.16 Average 2 0.51 35.38 -10.62 46.00 24.90 3 0.57 40.09 -15.91 56.00 29.60 0.33 10.16 QP 4 35.29 -10.71 46.00 24.80 0.33 10.16 Average 0.57 5 1.10 39.71 -16.29 56.00 29.20 0.37 10.14 QP 6 1.10 33.31 -12.69 46.00 22.80 0.37 10.14 Average 7 1.29 39.81 -16.19 56.00 29.30 0.37 10.14 QP 8 1.29 33.71 -12.29 46.00 23.20 0.37 10.14 Average 56.00 29.79 9 1.48 40.31 -15.69 0.38 10.14 QP 10 1.48 34.11 -11.89 46.00 23.59 0.38 10.14 Average 40.02 -15.98 56.00 29.50 10.14 QP 11 1.69 0.38 0.38 10.14 Average 1.69 34.12 -11.88 46.00 23.60

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22~24℃ Test Mode: Mode 2 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~46% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Function Type: Notebook) + Battery + Earphone 2 + GPS Rx 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 20.0 10.0 0.15 .2 30 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL Project : (FC) 511301-30 mode : Mode 2 LISN Cable Over Limit Read Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.15 40.61 -25.39 66.00 30.20 0.30 10.11 OP 1 0.15 31.71 -24.29 56.00 21.30 0.30 10.11 Average 3 0.21 0.31 10.13 QP 36.64 -26.76 63.40 26.20 4 0.21 24.94 -28.46 53.40 14.50 0.31 10.13 Average 5 36.28 -20.13 56.41 25.80 0.48 0.32 10.16 QP 0.32 10.16 Average 6 0.48 32.08 -14.33 46.41 21.60 7 2.19 33.72 -22.28 56.00 23.20 0.38 10.14 QP 8 2.19 27.32 -18.68 46.00 16.80 0.38 10.14 Average 9 2.71 35.02 -20.98 56.00 24.50 0.37 10.15 QP 10 2.71 25.72 -20.28 46.00 15.20 0.37 10.15 Average 34.94 -21.06 56.00 11 4.93 24.40 0.36 10.18 QP

18.60

0.36

10.18 Average

12

4.93

29.14 -16.86 46.00

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22~24℃ Test Mode: Mode 2 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~46% Test Voltage: 120Vac / 60Hz Phase: Neutral LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with **Function Type:** Notebook) + Battery + Earphone 2 + GPS Rx 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 20.0 10.0 0<mark>.15</mark> .5 30 Frequency (MHz) Site : CO01-KS : FCC CLASS-B LISN-L-20151024 LINE Condition Project : (FC) 511301-30 mode : Mode 2 0ver Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.16 33.35 -31.99 65.34 22.80 0.44 10.11 QP 0.44 10.11 Average 0.16 24.45 -30.89 55.34 13.90 0.18 34.55 -29.87 64.42 24.10 0.33 10.12 QP 0.18 22.05 -32.37 54.42 11.60 0.33 10.12 Average 5 0.49 34.29 -21.94 56.23 23.90 0.23 10.16 QP 0.49 30.99 -15.24 46.23 20.60 0.23 10.16 Average 2.30 32.83 -23.17 56.00 22.50 0.18 10.15 QP 2.30 24.23 -21.77 46.00 13.90 0.18 10.15 Average 9 2.72 31.63 -24.37 56.00 21.30 0.18 10.15 QP 10.15 Average 10 2.72 22.63 -23.37 46.00 12.30 0.18 11 4.98 33.27 -22.73 56.00 22.90 0.19 10.18 QP 4.98 26.57 -19.43 46.00 16.20 0.19 10.18 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 $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

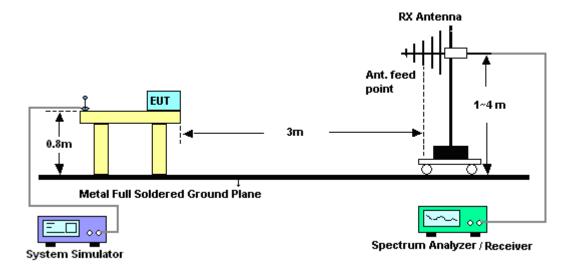
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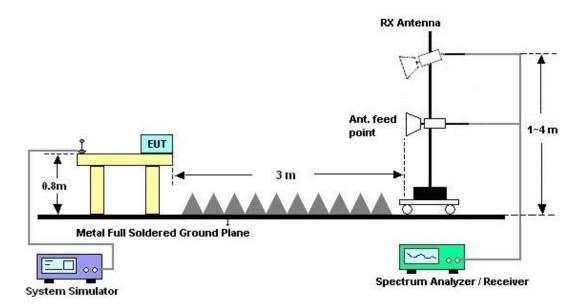
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

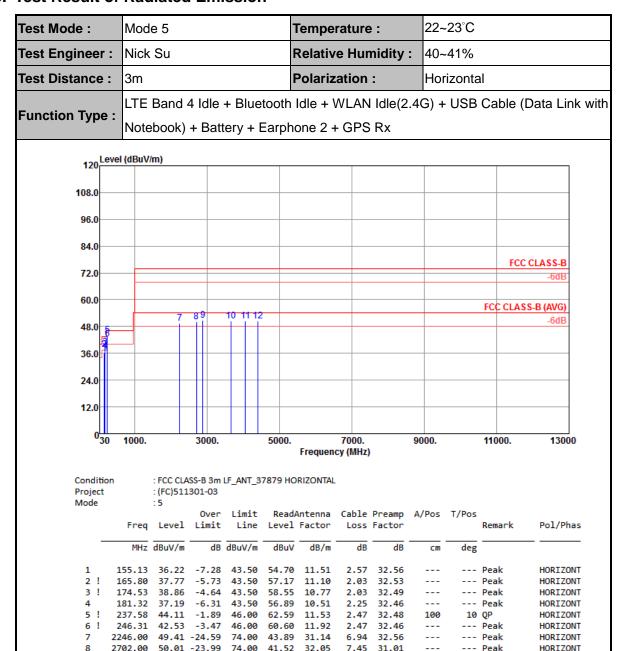


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3.2.5. Test Result of Radiated Emission



9

10

11

2884.00 50.71 -23.29

3650.00 50.33 -23.67 74.00

4056.00 50.39 -23.61 74.00

74.00

4396.00 50.40 -23.60 74.00 38.45 34.73

41.08

37.83

38.22 33.87

32.57

34.63

7.69

8.79

9.29

9.60

30.63

30.55

31.36

32.38

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--- Peak

--- Peak

--- Peak

--- Peak

HORIZONT

HORIZONT

HORTZONT

HORTZONT



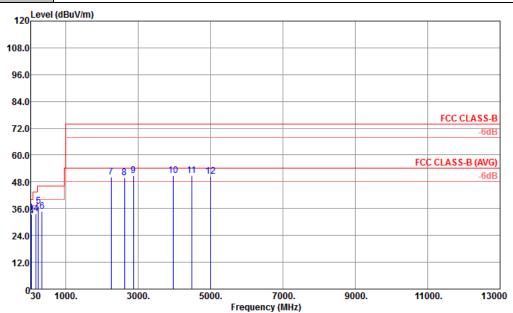
Test Mode: Mode 5 Temperature: 22~23°C

Test Engineer: Nick Su Relative Humidity: 40~41%

Test Distance: 3m Polarization: Vertical

LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with

Function Type: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Battery + Earphone 2 + GPS Rx



Condition : FCC CLASS-B 3m LF_ANT_37879 VERTICAL

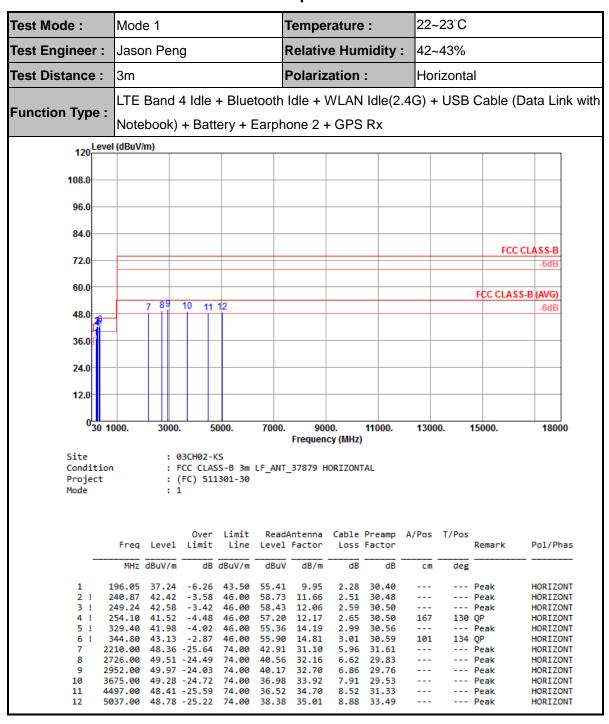
Project : (FC)511301-03

Mode : 5

	Freq	Level	Over Limit			ntenna Factor				T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 !	30.00	34.14	-5.86	40.00	46.62	19.20	0.98	32.66	100	98	Peak	VERTICAL
2	40.67	33.31	-6.69	40.00	50.61	13.79	1.52	32.61			Peak	VERTICAL
3	48.43	32.69	-7.31	40.00	54.08	9.72	1.52	32.63			Peak	VERTICAL
4	174.53	33.88	-9.62	43.50	53.57	10.77	2.03	32.49			Peak	VERTICAL
5	236.61	36.97	-9.03	46.00	55.50	11.48	2.47	32.48			Peak	VERTICAL
6	345.25	34.67	-11.33	46.00	49.38	14.81	2.84	32.36			Peak	VERTICAL
7	2250.00	50.19	-23.81	74.00	44.62	31.15	6.96	32.54			Peak	VERTICAL
8	2618.00	49.91	-24.09	74.00	42.27	31.75	7.34	31.45			Peak	VERTICAL
9	2868.00	50.84	-23.16	74.00	41.25	32.53	7.66	30.60			Peak	VERTICAL
10	3962.00	50.71	-23.29	74.00	37.97	34.49	9.14	30.89			Peak	VERTICAL
11	4478.00	50.86	-23.14	74.00	38.92	34.71	9.61	32.38			Peak	VERTICAL
12	4990.00	50.54	-23.46	74.00	39.98	34.99	9.95	34.38			Peak	VERTICAL

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3.2.6. Test Result of Radiated Emission for Spot Check



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22~23°C Test Mode: Mode 1 Temperature: Test Engineer: Jason Peng **Relative Humidity:** 42~43% Test Distance: 3m Polarization: Vertical LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with **Function Type:** Notebook) + Battery + Earphone 2 + GPS Rx 120 Level (dBuV/m) 108.0 96.0 84.0 FCC CLASS-E 72.0 60.0 FCC CLASS-B (AVG) -6dE 48.0 36.0 24.0 12.0 ⁰30 1000. 3000. 5000. 7000. 9000. 11000. 13000. 15000. 18000 Frequency (MHz) : 03CH02-KS Condition : FCC CLASS-B 3m LF_ANT_37879 VERTICAL Project : (FC) 511301-30 Mode Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV deg cm39.72 28.63 -11.37 40.00 44.15 14.30 1.08 30.90 --- Peak VERTICAL 2 196.32 33.99 -9.51 35.43 -10.57 43.50 52.16 9.95 2.28 30.40 ------ Peak VERTICAL --- Peak 225.75 46.00 52.39 2.50 VERTICAL 10.99 30.45 239.25 41.08 -4.92 46.00 11.61 2.51 112 54 Peak VERTICAL 344.80 31.71 -14.29 46.00 44.48 14.81 3.01 30.59 ------ Peak VERTICAL 35.55 -10.45 --- Peak 599.60 46.00 42.76 18.80 4.19 30.20 VERTICAL 47.93 -26.07 2028.00 74.00 44.32 5.69 --- Peak VERTICAL 30.82 32.90 48.34 -25.66 2642.00 74.00 40.22 6.52 30.27 ------ Peak VERTICAL 31.87 2848.00 49.23 -24.77 --- Peak VERTICAL 10 4242.00 50.09 -23.91 74.00 37.16 34.78 8.52 30.37 ------ Peak VERTICAL 49.16 -24.84 49.04 -24.96 11 5010.00 74.00 38.71 35.00 8.88 33.43 --- Peak VERTICAL 74.00 5691.00 39.64 35.25 9.59 35.44 --- 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;	May 04, 2014	Apr. 15, 2015	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Apr. 15, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Apr. 15, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Apr. 15, 2015	Oct. 24, 2015	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 29, 2014	Apr. 15, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Apr. 15, 2015	Sep. 24, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz-2GHz	Sep. 13, 2014	Apr. 15, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Sep. 13, 2014	Apr. 15, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9kHz-1GHz Gain 32dB	Sep. 13, 2014	Apr. 15, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 28, 2014	Apr. 15, 2015	Oct. 27, 2015	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 15, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 15, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 15, 2015	NCR	Radiation (03CH02-KS)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Feb. 27, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Feb. 27, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Feb. 27, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Feb. 27, 2016	Oct. 23, 2016	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 10, 2015	Mar. 02, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 10, 2015	Mar. 02, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz-2GHz	Sep. 12, 2015	Mar. 02, 2016	Sep. 11, 2016	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	Mar. 02, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz ~1000MHz / 32 dB	May 04, 2015	Mar. 02, 2016	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 24, 2015	Mar. 02, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Mar. 02, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 02, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 02, 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)

	4
Measuring Uncertainty for a Level of	2.3 dB
Confidence of 95% (U = 2Uc(y))	2.3 UB

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

Measuring Uncertainty for a Level of	5.4.15
Confidence of 95% (U = 2Uc(y))	5.1 dB

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