FCC Test Report

APPLICANT : TCL Communication Ltd.

EQUIPMENT : CDMA EVDO BC0/BC1 mobile phone

BRAND NAME : ALCATEL ONETOUCH

MODEL NAME : A462C MARKETING NAME : A462C

FCC ID : 2ACCJB013

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 12, 2015 and testing was completed on Jun. 14, 2015. 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 C63.4-2009 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Lunis Win

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Jun. 29, 2015

Report No.: FC551204

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC551204	Rev. 01	Initial issue of report	Jun. 29, 2015

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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	4.08 dB at
					3.040 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	6.43 dB at
					298.650 MHz

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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	CDMA EVDO BC0/BC1 mobile phone
Brand Name	ALCATEL ONETOUCH
Model Name	A462C
Marketing Name	A462C
FCC ID	2ACCJB013
	CDMA/EV-DO
FUT accompants Dadies combination	WLAN2.4GHz 802.11b/g/n HT20
EUT supports Radios application	Bluetooth v3.0+EDR
	Bluetooth v4.0 LE
MEID On de	Conduction: A1000047D0C942
MEID Code	Radiation: A1000047D0C946
HW Version	PIO
SW Version	v7AT6
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 Specifi	Product Specification subjective to this standard				
Tx Frequency	CDMA2000 BC0 : 824.70 MHz ~ 848.31 MHz CDMA2000 BC1 : 1851.25 MHz ~ 1908.75 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Rx Frequency	CDMA2000 BC0 : 869.70 MHz ~ 893.31 MHz CDMA2000 BC1 : 1931.25 MHz ~ 1988.75 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz				
Antenna Type	WWAN : IFA Antenna WLAN : Monopole Antenna Bluetooth : Monopole Antenna GPS : Monopole Antenna				
Type of Modulation	CDMA2000: QPSK CDMA2000 1xEV-DO: QPSK/8PSK 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/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					
	Brand Name	ALCATEL	Model Name	WUS550mA5V00-02		
AC Adapter	Power Rating	INPUT:AC100-240V ~50/60Hz 0.15A OUTPUT:DC5.0V-0.55A				
	Power Cord	1.2meter,non-shielded cable, without ferrite core				
	P/N	CBA0066AG1C1				
	Brand Name	ALCATEL Model Name TLi014A1		TLi014A1		
Battery	Power Rating	3.7Vdc, 1400mAh				
	P/N	CAB1400029C1				

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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 (SHENZHEN) INC.		
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,		
	Nanshan District, Shenzhen, Guangdong, P. R. China		
Test Site Location	TEL: +86-755-8637-9589		
	FAX: +86-755-8637-9595		
Toot Site No	Sporton Site No.		
Test 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.	
Test Site No.	03CH01-SZ	831040	

Note: The test site complies with ANSI C63.4 2009 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 C63.4-2009

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	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1	
2.	Data application transferred mode	\boxtimes	\boxtimes	\square	
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: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + MPEG4 <fig.1></fig.1>
Emission		Mode 3: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>
	1/2 M	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 2: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + MPEG4 <fig.1></fig.1>
		Mode 3: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>

Remark:

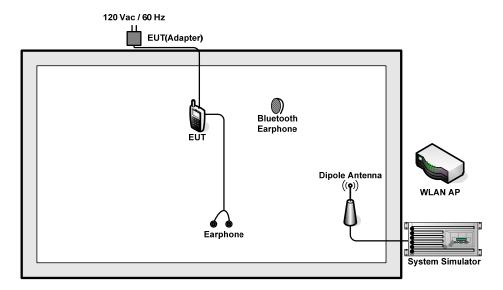
- The worst case of AC is mode 2; and the USB Link mode of AC is mode 3, the test data of these modes were reported.
- The worst case of RE < 1G is mode 3; only the test data of this mode was reported. 2.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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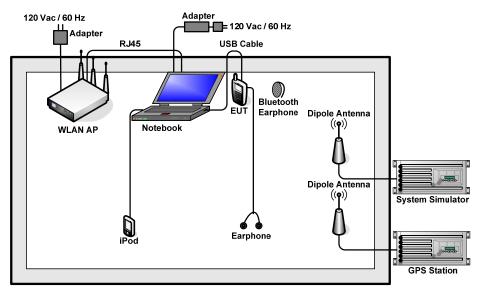
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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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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	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-615	N/A	N/A	Unshielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	USB Cable	Motorola	SKN6378A	FCC DoC	Shielded, 1.0 m	N/A
9.	IPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
10.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in CDMA2000 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 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.

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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

- 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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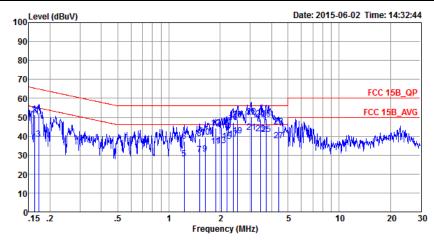
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	21~23 ℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type	CDMA2000 BC1 Idle + Blu	uetooth Idle + WLAN	Idle + Adapter + Earphone +
Function Type :	MPEG4		



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)551204

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_								
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.16		-18.28	55.34	26.50			Average
2	0.16			65.34	40.70		10.34	~
3	0.17		-16.55	54.90	27.80			Average
4	0.17		-12.55	64.90	41.80		10.33	
5	1.23		-17.79		17.80			Average
6	1.23	37.21	-18.79	56.00	26.80	0.25	10.16	QP
7	1.51	30.11	-15.89	46.00	19.70	0.24	10.17	Average
8	1.51	38.71	-17.29	56.00	28.30	0.24	10.17	QP
9	1.63	30.51	-15.49	46.00	20.10	0.23	10.18	Average
10	1.63	39.41	-16.59	56.00	29.00	0.23	10.18	QP
11	1.88	34.71	-11.29	46.00	24.30	0.22	10.19	Average
12	1.88	44.31	-11.69	56.00	33.90	0.22	10.19	QP
13	2.03	35.21	-10.79	46.00	24.80	0.22	10.19	Average
14	2.03	44.81	-11.19	56.00	34.40	0.22	10.19	QP
15	2.19	37.33	-8.67	46.00	26.90		10.19	Average
16	2.19	45.23	-10.77	56.00	34.80	0.24	10.19	OP
17	2.40	38.36	-7.64	46.00	27.90	0.26	10.20	Average
18	2.40	47.26	-8.74	56.00	36.80		10.20	
19	2.53	40.17	-5.83	46.00	29.70	0.27		Average
20	2.53	48.87			38.40		10.20	_
21 *	3.04	41.92	-4.08	46.00	31.40			Average
22	3.04		-5.78	56.00	39.70		10.21	_
23	3.45			46.00	30.90			Average
24	3.45		-6.94	56.00	38.50		10.22	_
25	3.74			46.00	30.50			Average
26	3.74	49.08		56.00	38.50		10.22	_
27	4.41	37.63	-8.37	46.00	27.01			Average
28	4.41		-10.87	56.00	34.51	0.39	10.23	
20	4.41	13.13	10.07	30.00	34.31	0.33	10.23	₩F

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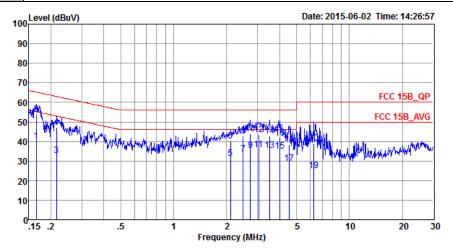


Test Mode: Mode 2 Temperature: 21~23°C

Test Engineer: Jacky Yang Relative Humidity: 41~43%

Test Voltage: 120Vac / 60Hz Phase: Neutral

CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + MPEG4



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

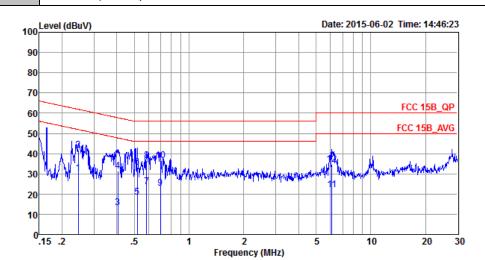
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	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable	Remark
_	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17	40.26	-14.95	55.21	29.59	0.33	10.34	Average
2	0.17	53.96	-11.25	65.21	43.29	0.33	10.34	QP
3	0.22	32.90	-20.11	53.01	22.29	0.33	10.28	Average
4	0.22	47.20	-15.81	63.01	36.59	0.33	10.28	QP
5	2.11	31.37	-14.63	46.00	20.80	0.38	10.19	Average
6	2.11	40.37	-15.63	56.00	29.80	0.38	10.19	QP
7	2.49	33.60	-12.40	46.00	23.00	0.40	10.20	Average
8	2.49	42.90	-13.10	56.00	32.30	0.40	10.20	QP
9	2.74	35.32	-10.68	46.00	24.70	0.41	10.21	Average
10	2.74	44.02	-11.98	56.00	33.40	0.41	10.21	QP
11 *	3.04	35.74	-10.26	46.00	25.10	0.43	10.21	Average
12	3.04	43.54	-12.46	56.00	32.90	0.43	10.21	QP
13	3.51	35.26	-10.74	46.00	24.60	0.44	10.22	Average
14	3.51	42.66	-13.34	56.00	32.00	0.44	10.22	QP
15	4.03	35.19	-10.81	46.00	24.50	0.46	10.23	Average
16	4.03	41.79	-14.21	56.00	31.10	0.46	10.23	QP
17	4.53	28.91	-17.09	46.00	18.20	0.48	10.23	Average
18	4.53	38.31	-17.69	56.00	27.60	0.48	10.23	QP
19	6.25	25.12	-24.88	50.00	14.39	0.46	10.27	Average
20	6.25	39.12	-20.88	60.00	28.39	0.46	10.27	QP

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Test Mode :	Mode 3	Temperature :	21~23℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
Function Tune	CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link Notebook) + Earphone + GPS Rx						
Function Type :							



Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC) 551204

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1	0.25	30.38	-21.53	51.91	19.89	0.24	10.25	Average
2	0.25	41.58	-20.33	61.91	31.09	0.24	10.25	QP
3	0.41	13.25	-34.48	47.73	2.80	0.28	10.17	Average
4	0.41	31.25	-26.48	57.73	20.80	0.28	10.17	QP
5	0.52	18.34	-27.66	46.00	7.89	0.29	10.16	Average
6	0.52	33.14	-22.86	56.00	22.69	0.29	10.16	QP
7	0.59	23.49	-22.51	46.00	13.10	0.24	10.15	Average
8 *	0.59	36.59	-19.41	56.00	26.20	0.24	10.15	QP
9	0.70	22.73	-23.27	46.00	12.40	0.18	10.15	Average
10	0.70	36.53	-19.47	56.00	26.20	0.18	10.15	QP
11	6.12	21.96	-28.04	50.00	11.30	0.40	10.26	Average
12	6.12	34.56	-25.44	60.00	23.90	0.40	10.26	QP

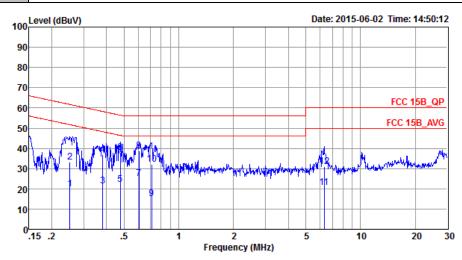
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Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type:	CDMA2000 BC0 Idle + Blue	etooth Idle + WLAN Idl	le + USB Cable (Data Link with

Function Type: Notebook) + Earphone + GPS Rx



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC) 551204

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.25	19.98	-31.71	51.69	9.40	0.34	10.24	Average
2	0.25	33.38	-28.31	61.69	22.80	0.34	10.24	QP
3	0.38	21.46	-26.79	48.25	10.90	0.38	10.18	Average
4	0.38	37.06	-21.19	58.25	26.50	0.38	10.18	QP
5	0.48	22.16	-24.25	46.41	11.59	0.41	10.16	Average
6	0.48	38.06	-18.35	56.41	27.49	0.41	10.16	QP
7	0.60	24.97	-21.03	46.00	14.50	0.32	10.15	Average
8 *	0.60	38.77	-17.23	56.00	28.30	0.32	10.15	QP
9	0.71	15.20	-30.80	46.00	4.80	0.25	10.15	Average
10	0.71	32.10	-23.90	56.00	21.70	0.25	10.15	QP
11	6.32	20.62	-29.38	50.00	9.89	0.46	10.27	Average
12	6.32	31.12	-28.88	60.00	20.39	0.46	10.27	QP

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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.
- 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

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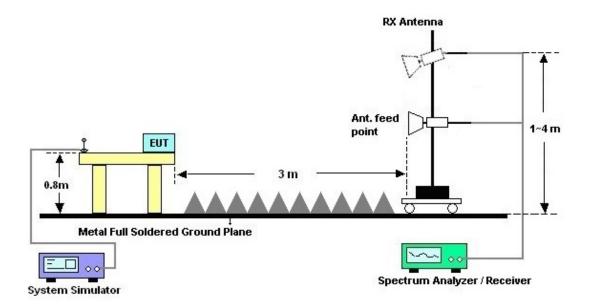
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



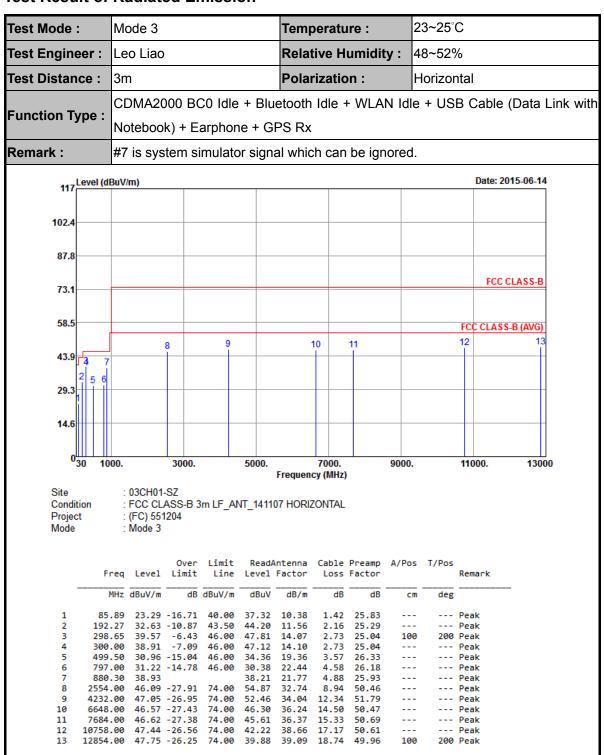
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Leo Liao **Relative Humidity:** 48~52% Test Distance: 3m Polarization: Vertical CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with **Function Type:** Notebook) + Earphone + GPS Rx Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2015-06-14 102.4 87.8 FCC CLASS-B 73. 58.5 FCC CLASS-B (AVG)

10

7000.

Frequency (MHz)

12

11000.

13000

9000.

Site : 03CH01-SZ

1000.

43.9

29.3

14.6

030

Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL

3000.

Project : (FC) 551204 Mode : Mode 3

Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Remark Line Level Factor Loss Factor dBuV dB/m deg MHz dBuV/m dB dBuV/m dΒ dB 22.49 -17.51 40.00 30.27 28.11 19.60 0.85 26.07 Peak 199.29 25.38 -18.12 43.50 Peak 2.20 25.25 36.83 11.60 3 298.65 30.82 -15.18 46.00 39.06 14.07 2.73 Peak 4 498.10 29.20 -16.80 46.00 32.64 19.32 3.57 26.33 ---Peak 600.30 32.66 -13.34 46.00 35.46 34.11 19.70 3.94 26.44 Peak 32.69 -13.31 4.30 26.34 6 715.10 46.00 20.62 100 360 Peak 880.30 39.34 38.62 21.77 4.88 25.93 --- Peak 2890.00 46.62 -27.38 74.00 54.83 33.01 9.60 50.82 ---4586.00 46.86 -27.14 74.00 51.35 34.25 12.77 51.51 Peak 46.68 -27.32 74.00 36.25 14.48 ---10 6630.00 46.41 50.46 --- Peak 8726.00 46.66 -27.34 74.00 43.07 36.46 16.69 49.56 ------ Peak 11 47.37 -26.63 40.98 74.00 38.11 18.23 Peak 48.16 -25.84 40.25 39.12 360 Peak

5000.

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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	100724	9kHz~3GHz	Jan. 28, 2015	Jun. 02, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jun. 02, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jun. 02, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Sep. 29, 2014	Jun. 02, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jun. 02, 2015	Oct. 23, 2015	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Jun. 14, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jun. 14, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jun. 14, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jun. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jun. 14, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Jun. 14, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 14, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 14, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 14, 2015	NCR	Radiation (03CH01-SZ)

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5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

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

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	3.9 dB
Confidence of 95% (U = 2Uc(y))	3.9 UD

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