FCC Test Report

APPLICANT: Yulong Computer Telecommunication

Scientific (Shenzhen) Co., Ltd

EQUIPMENT: Smartphone

BRAND NAME : Coolpad

MODEL NAME : Coolpad 3623A

MARKETING NAME : Coolpad Tattoo

FCC ID : R38YL3623A

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Dec. 26, 2015 and testing was completed on Mar. 03, 2016. 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.

Prepared by: Andy Yeh / Manager

Andy Jeh

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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Testing Laboratory 2353

Report No.: FC5D2601

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5D2601	Rev. 01	Initial issue of report	Mar. 22, 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	5.17 dB at
					0.160 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	9.10 dB at
					44.040 MHz

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1. General Description

1.1. Applicant

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Coolpad Information Harbor, 2nd Mengxi Road, Hi-Tech Industrial Park(North), Nanshan district, Shenzhen, P.R.C

1.2. Manufacturer

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Coolpad Information Harbor, 2nd Mengxi Road, Hi-Tech Industrial Park(North), Nanshan district, Shenzhen, P.R.C

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	Coolpad
Model Name	Coolpad 3623A
Marketing Name	Coolpad Tattoo
FCC ID	R38YL3623A
ELIT cumports Dadice emplication	CDMA/EV-DO/WLAN 2.4GHz 802.11b/g/n HT20
EUT supports Radios application	Bluetooth v2.1 + EDR/Bluetooth v4.0 LE
MEID Code	Radiation: 99000773338062
WEID Code	Conduction: 99000564213668
HW Version	P1
SW Version	051.00.160215
EUT Stage	Production Unit

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx Frequency	CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 13: 779.5 MHz ~ 784.5 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 LTE Band 13: 748.5 MHz ~ 753.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass: PIFA Antenna		
Type of Modulation	CDMA2000: QPSK CDMA2000 1xEV-DO: 8PSK LTE: QPSK / 16QAM 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/Glonass: BPSK		

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

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 C63.4-2009

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

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 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	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes	
2.	Data application transferred mode			\square	
	(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		
	1/2	Mode 1: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <fig.1></fig.1>		
		Mode 2: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) <fig.1></fig.1>		
AC Conducted Emission		Mode 3: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <fig.1></fig.1>		
		Mode 4: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>		
		Mode 5: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <fig.3></fig.3>		
		Mode 1: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <fig.1></fig.1>		
		Mode 2: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) <fig.1></fig.1>		
Radiated Emissions < 1GHz	1/2	Mode 3: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <fig.1></fig.1>		
		Mode 4: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>		
		Mode 5: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <fig.3></fig.3>		

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Test Items	EUT Configure Mode	Function Type
Radiated	1/2	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) <fig.1></fig.1>
Emissions ≥ 1GHz	1/2	Mode 2: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>

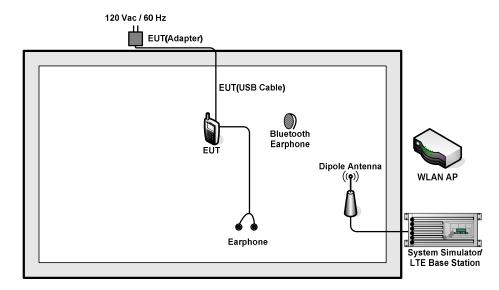
Remark:

- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 4, only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 2; and the USB Link mode of RE is mode 4, only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

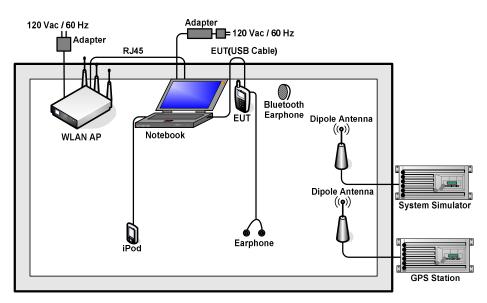
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2.2. Connection Diagram of Test System



<Fig.1>

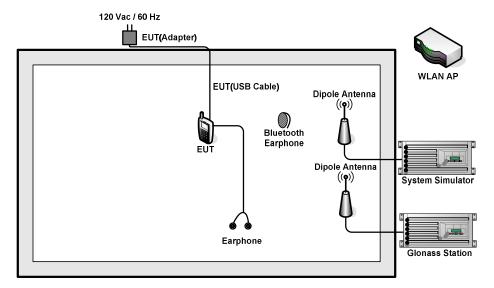


<Fig.2>

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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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	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	RLLS03-2P	FCC DoC	N/A	N/A
5.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RAC66U	N/A	Unshielded, 1.8 m
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
9.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
10.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
11.	iPod Earphone	Apple	MC690ZP/A	N/A	N/A	N/A
12.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
13.	SD Card	SanDisk	4G class 4	N/A	N/A	N/A

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2.4. EUT Operation Test Setup

The EUT was in LTE or 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/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.

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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.

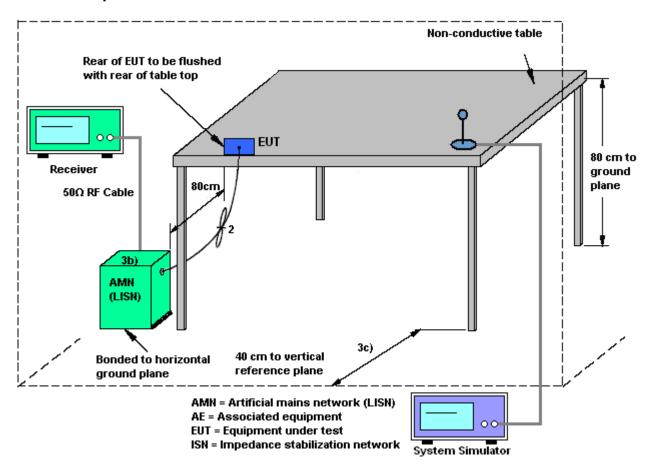
3.1.3 Test Procedure

- 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

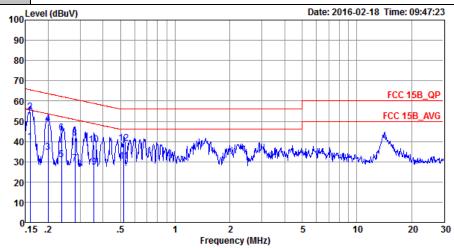


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
Function Type :	pe : CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging Adapter) + Earphone + Camera (Front)						
Function Type :							



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20160112 LINE

Project : (FC)5D2601 Mode : Mode 1 IMEI : 008600250924452

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu₹	dB	dB	
1	0.16	39.79	-15.73	55.52	28.99	0.45	10.35	Average
2 *	0.16	54.49	-11.03	65.52	43.69	0.45	10.35	QP
3	0.20	34.61	-19.01	53.62	23.80	0.52	10.29	Average
4	0.20	48.71	-14.91	63.62	37.90	0.52	10.29	QP
5	0.24	30.90	-21.32	52.22	20.11	0.54	10.25	Average
6	0.24	44.20	-18.02	62.22	33.41	0.54	10.25	QP
7	0.28	29.28	-21.53	50.81	18.50	0.56	10.22	Average
8	0.28	41.58	-19.23	60.81	30.80	0.56	10.22	QP
9	0.36	27.43	-21.35	48.78	16.70	0.55	10.18	Average
10	0.36	38.33	-20.45	58.78	27.60	0.55	10.18	QP
11	0.52	30.31	-15.69	46.00	19.51	0.65	10.15	Average
12	0.52	39.01	-16.99	56.00	28.21	0.65	10.15	QP

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Test Mode :	Mode 1	Mode 1			peratu	re:	21~2	3℃		
Test Engineer :	Jacky Yang			Rela	ative Hu	umidity :	41~4	41~43%		
Test Voltage :	120Vac / 60Hz			Pha	se:		Neuti	Neutral		
Function Type :	CDMA20 Adapter)					WLAN I	dle + L	ISB Cable (C	Charging from	
400L	evel (dBuV)	<u>'</u>			,	Dat	e: 2016-0	2-18 Time: 09:44:	09	
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	n: FCC 15		SN N 201	60112 NE	UTRAL					
Project										
Mode	: Mode 1									
IMEI	: 008600	2509244	52 Over	Limit	Read	LISN	Cable			
	Freq	Level	Limit			Factor		Remark		
_	MHz	dBu₹	dB	dBu∀	dBu₹	dB	dB			
1	0.16	45.21	-10.17	55.38	34.40	0.47	10.34	Average		
2 *	0.16			65.38	49.40		10.34	_		
3	0.20		-14.35		28.30	0.51		Average		
4	0.20	53.90	-9.55	63.45	43.10	0.51	10.29	_		
5	0.24		-17.50		23.70			Average		
6	0.24		-12.80		38.40		10.25			
7	0.28		-18.03					Average		
8	0.28		-14.43				10.21			
9 10	0.33		-18.26 -15.56					Average		
TO	0.33	23.7/	-15.56	JJ.J3	33.20	0.58	10.19	×F		
11	0.36	29.54	-19.11	48 65	18.80	0.56	10.18	Average		
11 12	0.36		-19.11 -17.11				10.18 10.18	Average QP		

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Test Mode :	Mode 4	Mode 4			nperatu	re:	21~2	23°C	
Test Engineer :	Jacky Ya	ang		Rel	ative H	umidity:	41~4	~43%	
Test Voltage :	120Vac	120Vac / 60Hz			ise :		Line		
Function Type :						- WLAN I	dle + L	JSB Cable	(Data Link with
	Noteboo	k) + Ea	rphone +	- GPS R	X.				
100 ^L	evel (dBuV)					Date	: 2016-0	2-18 Time: 10:2	6:26
90									
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70								FCC 4ED	OD.
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20									
10									
0		.5		1	2	5	10	20	30
	15 .2	.5			ency (MHz	_	10	20	30
Site	: CO01-9	SZ							
	n: FCC 15		SN_L_201	60112 LI	NE				
Project Mode	: (FC)5I								
IMEI	: 008600		52						
			Over	Limit	Read		Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
_	MHz	dBu₹	dB	dBu₹	dBu∇	dB	dB		_
1	0.24	25.60	-26.57	52.17	14.81	0.54	10.25	Average	
2	0.24	40.80	-21.37	62.17	30.01	0.54	10.25	QP	
3	0.27			51.03	13.50	0.56	10.22	Average	
4	0.27	41.88	-19.15	61.03	31.10	0.56	10.22	QP	
5	0.35		-24.43	48.87	13.71		10.18	Average	
6	0.35		-21.83	58.87	26.31		10.18	QP	
7				47.73	12.50			Average	
8	0.41		-19.61				10.17		
9			-23.33					Average	
10 *	0.57		-17.73				10.15		
11	0.70		-22.91					Average	
12	0.70	37.39	-18.61	56.00	20.70	0.54	10.15	ŲΡ.	

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Test Mode :	Mode 4	Mode 4			peratur	e:	21~2	3℃	
Гest Engineer :	Jacky Ya	Jacky Yang			tive Hu	ımidity :	41~4	3%	
Гest Voltage :	120Vac /	60Hz		Pha	se:		Neutr	al	
	CDMA20	00 BC0	Idle + E	Bluetooth	ı Idle +	WLAN I	dle + U	SB Cabl	le (Da
Function Type :	Notebook								`
	Level (dBuV)	.,	<u> </u>	0.0.0		Da	te: 2016-0	2-18 Time: 1	10:24:35
100									
90									
80									
00									
70									
60	-							FCC 1	5B_QP
		7			+ +			FCC 15	R AVG
50	-4	-						100 13	D_AVO
40	AVIA	Add I	10.42						
	Kadalkia (14 Mac		YPY Malala	ļ., .				LHW	
30	Militaria de la Maria de Maria	* 	g 11/1/1/14/14	Park Broke Walnut States	Market Company	deptember per per per per per per per per per p	Triply Joy of the	And part of the last	A-CHICALIA.
20		11	1 '						
10									
0	45.0								
0	.15 .2	.5	1	-	2 ency (MHz)	5	10) 2	20 3
0'	.15 .2		1	-	2 ency (MHz)	_	10) 2	20 3
0 Site	.15 .2 : CO01-S	Z		Frequ	ency (MHz)	_	10) 2	20 3
0 Site Conditi	.15 .2 : CO01-S on: FCC 15	Z B_QP LIS		Frequ	ency (MHz)	_	10) 2	20 3
0 Site	.15 .2 : CO01-S on: FCC 15	Z B_QP LI: 2601		Frequ	ency (MHz)	_	10	2	20 3
0 Site Conditi Project	: CO01-S on: FCC 15	Z B_QP LI: 2601	SN_N_201	Frequ	ency (MHz)	_	10	2	20 3
0 Site Conditi Project Mode	: CO01-S on: FCC 15 : (FC) 5D : Mode 4 : 008600	Z B_QP LI: 2601 2509244	SN_N_201 52 Over	Frequ 60112 NE	ency (MHz) UTRAL Read	LISN	Cable		20 3
0 Site Conditi Project Mode	: CO01-S on: FCC 15 : (FC) 5D : Mode 4 : 008600	Z B_QP LI: 2601 2509244	SN_N_201	Frequ 60112 NE	ency (MHz) UTRAL Read)	Cable	2 Remark	20 3
0 Site Conditi Project Mode	: CO01-S on: FCC 15 : (FC) 5D : Mode 4 : 008600	Z B_QP LI: 2601 2509244	SN_N_201 52 Over	Frequ 60112 NE	ency (MHz) UTRAL Read	LISN	Cable		20 3
0 Site Conditi Project Mode	: C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600	Z B_QP LIS 2601 25092448 Level	SN_N_201 52 Over Limit	Frequ 60112 NE Limit Line	Read Level dBuV	LISN Factor	Cable Loss dB	Remark	_
Site Conditi Project Mode IMEI	: C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq	Z B_QP LIS 2601 25092448 Level dBuV 27.50	52 Over Limit —dB	Frequ 60112 NE	Read Level dBuV	LISN Factor	Cable Loss dB	Remark —	_
Site Conditi Project Mode IMEI	: C001-S on: FCC 15 : (FC) SD : Mode 4 : 008600 Freq MHz	Z B_QP LIS 25092448 Level dBuV 27.50 40.90	52 Over Limit —dB	Frequ 60112 NE Limit Line dBuV 52.30	Read Level dBuV	LISN Factor dB	Cable Loss dB 10.26 10.26	Remark —	
Site Conditi Project Mode IMEI	: C001-S on: FCC 15 : (FC) SD : Mode 4 : 008600 Freq MHz 0.23 0.23	Z B_QP LIS 25092448 Level dBuV 27.50 40.90 27.90	52 Over Limit ———————————————————————————————————	Limit Line dBuV 52.30 62.30	Read Level dBuV	LISN Factor dB 0.54 0.54	Cable Loss dB 10.26 10.26	Remark Average QP Average	
Site Conditi Project Mode IMEI	: C001-S on: FCC 15 : (FC) SD : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26	Z B_QP LIS 2601 2509244S Level dBuV 27.50 40.90 27.90 42.90	52 Over Limit ———————————————————————————————————	Limit Line dBuV 52.30 62.30 51.56	Read Level dBuV 16.70 30.10 17.10 32.10	LISN Factor dB 0.54 0.54 0.56	Cable Loss dB 10.26 10.24 10.24	Remark Average QP Average	÷
Site Conditi Project Mode IMEI	: CO01-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26 0.26	Z B_QP LIS 2601 2509244S Level dBuV 27.50 40.90 27.90 42.90 22.66	52 Over Limit ———————————————————————————————————	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05	Read Level dBuV 16.70 30.10 17.10 32.10 11.90	LISN Factor dB 0.54 0.54 0.56 0.56	Cable Loss dB 10.26 10.24 10.24	Remark Average QP Average QP Average	÷
Site Conditi Project Mode IMEI	.15 .2 : C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26 0.26 0.35	Z B_QP LIS 2601 2509244 Level dBuV 27.50 40.90 27.90 42.90 22.66 35.56	SN_N_201 52 Over Limit ——————————————————————————————————	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05	Read Level dBuV 16.70 30.10 17.10 32.10 11.90 24.80	LISN Factor dB 0.54 0.54 0.56 0.56 0.57	Cable Loss dB 10.26 10.24 10.24 10.19	Remark Average QP Average QP Average	
Site Conditi Project Mode IMEI	.15 .2 : C001-S on: FCC 15 : (FC) SD : Mode 4 : 008600 Freq MHZ 0.23 0.23 0.26 0.26 0.35 0.35	Z B_QP LIS 2601 2509244 Level dBuV 27.50 40.90 27.90 42.90 22.66 35.56 23.22	SN_N_201 52 Over Limit ——————————————————————————————————	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05 59.05 47.73	Read Level dBuV 16.70 30.10 17.10 32.10 11.90 24.80	LISN Factor dB 0.54 0.54 0.56 0.56 0.57 0.57	Cable Loss dB 10.26 10.24 10.24 10.19	Average QP Average QP Average QP Average QP Average	
Site Conditi Project Mode IMEI 1 2 3 4 5 6 7 8 9	.15 .2 : C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26 0.26 0.35 0.35 0.41 0.41 0.59	Z B_QP LI: 2509244: Level dBuV 27.50 40.90 27.90 42.90 22.66 35.56 23.22 37.12 24.43	52 Over Limit ———————————————————————————————————	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05 59.05 47.73 57.73 46.00	Read Level dBuV 16.70 30.10 17.10 32.10 11.90 24.80 12.50 26.40 13.70	LISN Factor dB 0.54 0.54 0.56 0.56 0.57 0.57 0.55 0.55 0.58	Cable Loss dB 10.26 10.24 10.19 10.17 10.17 10.17	Remark Average QP Average QP Average QP Average QP Average	
Site Conditi Project Mode IMEI 1 2 3 4 5 6 7 8 9 10 *	.15 .2 : C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26 0.26 0.35 0.35 0.41 0.41 0.59 0.59	Z B_QP LIS 2601 2509244 Level dBuV 27.50 40.90 27.90 42.90 22.66 35.56 23.22 37.12 24.43 37.93	52 Over Limit -24.80 -21.40 -23.66 -18.66 -26.39 -23.49 -24.51 -20.61 -21.57 -18.07	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05 59.05 47.73 57.73 46.00 56.00	Read Level dBuV 16.70 30.10 17.10 32.10 11.90 24.80 12.50 26.40 13.70 27.20	LISN Factor dB 0.54 0.54 0.56 0.57 0.55 0.55 0.58 0.58	Cable Loss dB 10.26 10.24 10.19 10.17 10.17 10.17	Remark Average QP Average QP Average QP Average QP Average QP	
Site Conditi Project Mode IMEI 1 2 3 4 5 6 7 8 9	.15 .2 : C001-S on: FCC 15 : (FC) 5D : Mode 4 : 008600 Freq MHz 0.23 0.23 0.26 0.26 0.35 0.35 0.41 0.41 0.59	Z B_QP LIS 2601 2509244 Level dBuV 27.50 40.90 27.90 42.90 22.66 23.22 37.12 24.43 37.93 25.20	52 Over Limit -24.80 -21.40 -23.66 -26.39 -23.49 -24.51 -20.61 -21.57 -18.07 -20.80	Limit Line dBuV 52.30 62.30 51.56 61.56 49.05 59.05 47.73 57.73 46.00	Read Level dBuV 16.70 30.10 17.10 32.10 11.90 24.80 12.50 26.40 13.70 27.20 14.50	LISN Factor dB 0.54 0.54 0.56 0.57 0.55 0.55 0.58 0.58 0.58	Cable Loss dB 10.26 10.24 10.19 10.17 10.17 10.17	Remark Average QP Average QP Average QP Average QP Average QP 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.
- 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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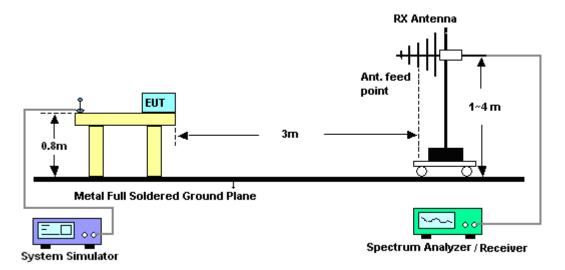
: Rev. 01

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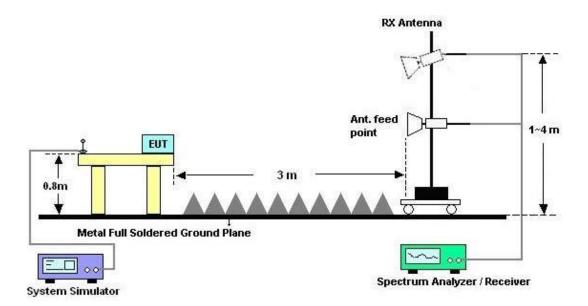
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



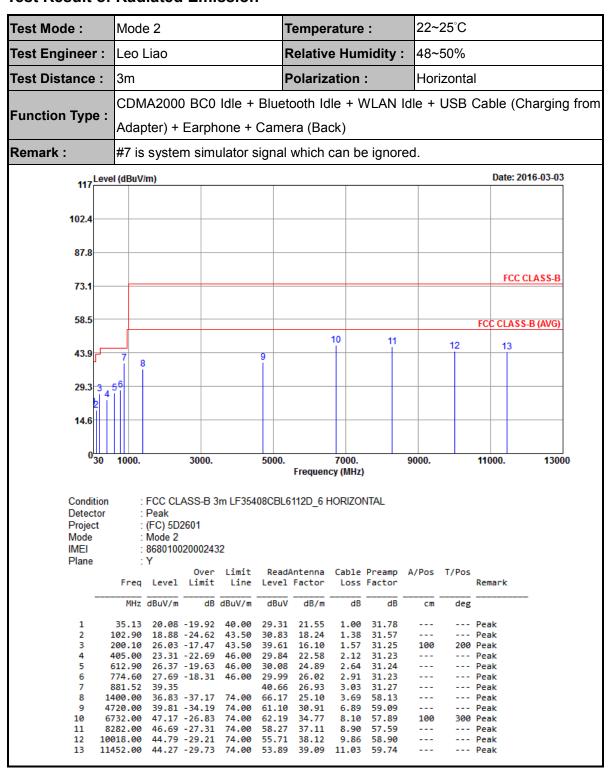
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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22~25°C Test Mode: Mode 2 Temperature: Test Engineer: Leo Liao **Relative Humidity:** 48~50% Test Distance: 3m Polarization: Vertical CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Function Type: Adapter) + Earphone + Camera (Back) Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2016-03-03 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 13 43.9 29.3 030 1000. 3000. 5000. 7000. 9000. 11000. 13000 Frequency (MHz) : FCC CLASS-B 3m LF35408CBL6112D_6 VERTICAL Condition Detector : Peak (FC) 5D2601 Project Mode Mode 2 868010020002432 IMEI Plane : Y ReadAntenna Cable Preamp Over Limit A/Pos T/Pos Remark Freq Level Limit Line Level Factor Loss Factor dB dBuV/m MHz dBuV/m dBuV dB/m dB dB deg 30.90 -9.10 40.00 44.19 17.45 31.74 300 Peak 44.04 1.00 100 70.23 21.06 -18.94 40.00 38.21 13.40 1.14 31.69 Peak 200.10 20.42 -23.08 43.50 34.00 16.10 1.57 31.25 Peak 420.40 23.82 -22.18 46.00 30.04 22.78 2.22 31.22 --- Peak 659.80 26.79 -19.21 46.00 30.10 ---25.21 2.71 31.23 --- Peak 861.40 29.33 -16.67 26.75 --- Peak 46.00 30.81 3.03 31.26 881.52 Peak 38.11 39.42 26.93 3.03 1400.00 34.79 -39.21 74.00 64.13 25.10 3.69 58.13 ---Peak

10

11

3822.00

6988.00

8502.00

10754.00

37.66 -36.34

47.22 -26.78

49.78 -24.22

50.37 -23.63

12130.00 45.25 -28.75

74.00

74.00

74.00

74.00

74.00

61.81

60.95

60.80

60.00

56.09

29.29

35.45

37.20

38.64

6.08

7.99

9.14

10.51

10.87

59.52

57.17

57.36

60.35

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--- Peak

300 Peak

--- Peak

Peak

--- Peak

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SPORTON LAB.	FCC Test Report

Test Mode:	Mode 4			Tempe	eratur	e:	22~	-25°C			
Test Engineer :	Leo Liao			Relativ	ve Hu	midity	48~	48~50%			
Test Distance :	3m			Polaria	zation	:	Ho	Horizontal			
Function Type :		CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link Notebook) + Earphone + GPS Rx							ık with		
Remark :		7 is system simulator signal which can be ignored.									
117 Level	(dBuV/m)	BuV/m) Date: 2016-03-03									
117											
102.4											
87.8											
73.1									FCC	CLASS-B	
58.5						11			FCC CLAS		
43.9	8	9		— 10 						3	
29.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5										
14.6											
030	1000.	3000.	5000.	Frequen	7000. cy (MHz)		9000.		11000.	13000)
Condition Detector Project Mode IMEI Plane	: FCC CL/ : Peak : (FC) 5D2 : Mode 4 : 8680100 : Y	20002432									
	Freq Level	Over Limit Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark		
	MHz dBuV/m	dB dBuV/m		dB/m		dB	cm	deg		_	
2 20 3 30 4 30 5 30 6 66	00.10 28.85 00.00 35.14 00.00 34.81 99.40 30.56 82.90 31.25	-20.22 43.50 -14.65 43.50 -10.86 46.00 -11.19 46.00 -15.44 46.00 -14.75 46.00	42.43 44.73 44.40 37.18 34.38	16.10 19.80 19.80 22.50 25.38	1.57 1.94 1.94 2.12 2.71	31.25 31.33 31.33 31.24 31.22	100	200	Peak Peak Peak Peak Peak Peak		
8 194 9 42: 10 600 11 83:	24.00 38.09 54.00 42.14 52.00 50.14	-29.88 74.00 -35.91 74.00 -31.86 74.00 -23.86 74.00	72.79 61.43 60.94 61.54	30.12 32.98 37.14	4.30 6.51 7.61 8.98	31.27 58.57 59.97 59.39 57.52			Peak Peak Peak Peak Peak		
		-23.24 74.00 -25.65 74.00					100		Peak Peak		

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SPORTON LAB.	FCC Test Report

Test Mode :	Mode 4			Tempe	rature) :	22~2	25°C			
Test Engineer :	Leo Liao			Relativ	e Hur	nidity :	48~	48~50%			
Test Distance :	3m			Polariz	ation	:	Verti	Vertical			
Function Type :		000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link ok) + Earphone + GPS Rx						ata Link with			
Remark :	#7 is syst	7 is system simulator signal which can be ignored.									
117 Leve	l (dBuV/m)	1BuV/m) Date: 2016-03-03								16-03-03	
102.4											
87.8											
73.1									FCC C	LASS-B	
58.5									FCC CLASS-	D (AVC)	
43.9	8			1	0	11		12	FCC CLASS-	13	
2	5		9								
14.6											
030	1000.	3000.	5000.		7000.		9000.		11000.	13000	
				Frequen	cy (MHz))					
Condition Detector Project Mode IMEI Plane	: Peak : (FC) 5 : Mode	D2601	LF35408CBL								
	Freq Leve		imit Read Line Level	Antenna Factor		Preamp / Factor	A/Pos	T/Pos	Remark		
	MHz dBuV/				dB		cm	deg			
2 1 3 3 4	166.08 26.6 199.83 25.3 300.00 34.1 300.00 34.4 399.40 30.0	5 -18.15 4 9 -11.81 4 5 -11.55 4	13.50 38.93 16.00 43.78 16.00 44.04	3 16.10 3 19.80 4 19.80	1.57 1.94 1.94	31.36 31.25 31.33 31.33 31.24	100	200	Peak Peak Peak Peak Peak		
6 5 7 8 8 19	598.20 31.9 381.52 38.7 998.00 48.5	0 -14.10 4 9 8 -25.42 7	46.00 35.79 40.10 74.00 77.16	24.78 26.93 25.90	2.57 3.03 4.34	31.24 31.27 58.82			Peak Peak Peak		
10 65 11 84 12 99	580.00 39.6 532.00 44.9 124.00 49.8 928.00 50.5	5 -29.04 7 5 -24.15 7 8 -23.42 7	74.00 60.80 74.00 61.05 74.00 61.55	34.22 37.17 38.05	8.01 9.06 9.86	59.53 58.07 57.43 58.88	100	300	Peak Peak Peak Peak		
13 122	242.00 48.3	3 -25.67 7	74.00 59.16	38.67	10.92	60.42			Peak		

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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;	Nov. 23, 2015	Feb. 18, 2016	Nov. 22, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan.12, 2016	Feb. 18, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan.12, 2016	Feb. 18, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Feb. 18, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20. 2015	Feb. 18, 2016	Oct.19. 2016	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May. 26, 2015	Mar. 03, 2016	May.25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;M ax 30dBm	Jun. 07, 2015	Mar. 03, 2016	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Mar. 03, 2016	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 17, 2015	Mar. 03, 2016	Oct. 16, 2016	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug.19, 2015	Mar. 03, 2016	Aug. 18, 2016	Radiation (03CH01-SZ)
Amplifier	HP	8447F	3113A04622	9kHz ~1300MHz / 30 dB	Aug. 07, 2015	Mar. 03, 2016	Aug. 06, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 12, 2016	Mar. 03, 2016	Jan. 11, 2017	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 18. 2015	Mar. 03, 2016	Jul. 17. 2016	Radiation (03CH01-SZ
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Mar. 03, 2016	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 03, 2016	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 03, 2016	NCR	Radiation (03CH01-SZ)

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	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3UB

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

Measuring Uncertainty for a Level of	4 0 4 10
Confidence of 95% (U = 2Uc(y))	4.8dB

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