# **FCC Test Report**

APPLICANT : INFINIX MOBILITY LIMITED

**EQUIPMENT**: Mobile Phone

BRAND NAME : Infinix MODEL NAME : X623

FCC ID : 2AIZN-X623

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Jul. 09, 2018 and testing was completed on Aug. 02, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

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



Approved by: Eric Shih / Manager

## Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

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Report Version : Rev. 01

Report No.: FC870907

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC870907	Rev. 01	Initial issue of report	Aug. 09, 2018

Sporton International (Shenzhen) Inc.

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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	7.33 dB at
					0.460 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	7.76 dB at
					266.680 MHz

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## 1. General Description

## 1.1. Applicant

#### **INFINIX MOBILITY LIMITED**

RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG

#### 1.2. Manufacturer

#### SHENZHEN TECNO TECHNOLOGY CO.,LTD.

1/-4/TH FLOOR, 7TH FLOOR, 3RD BUILDING, PACIFIC INDUSTRIAL PARK, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN, GUANGDONG, CHINA

## 1.3. Product Feature of Equipment Under Test

Product Feature					
Equipment	Mobile Phone				
Brand Name	Infinix				
Model Name	X623				
FCC ID	2AIZN-X623				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+(16 QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR / EDR / LE				
IMEI Code	Conduction: 358942090025843/358942090025850 Radiation: 358942090025769/358942090025777				
HW Version	2.0				
SW Version	X623-QL1819ABCDEF-O-18-626V11				
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

Standards-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 V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz				
	WCDMA Band IV : 1712.4 MHz ~ 1732.6 MHz				
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz				
1 x Trequency	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				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 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 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				
Rx Frequency	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				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GNSS: 1559 MHz ~ 1610 MHz				
	FM : 88 MHz ~ 108 MHz				
	WWAN: Loop Antenna				
Antenna Type	Bluetooth/WLAN/GNSS: IFA Antenna				
	FM: External headset Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE: GMSK / 8PSK				
	WCDMA: BPSK (Uplink)				
	HSDPA/ DC-HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
	HSPA+:16QAM (uplink is not supported)				
	DC-HSDPA: 64QAM				
Type of Modulation	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) : π /4-DQPSK				
	Bluetooth (3Mbps): 8-DPSK				
	GNSS: BPSK				
	FM				

Note: GNSS=GPS+BDS

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#### 1.5. Modification of EUT

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

### 1.6. Test Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595				
O'. N	Sporton Site No.	FCC Test Firm Registration No.			
Test Site No.	CO01-SZ	251365			

Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China  TEL: +86-755-3320-2398				
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.			
rest Site No.	03CH03-SZ	577730			

## 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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## 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 emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1 : GSM 850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) + SIM 1
	Mode 2: GSM 1900 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM 2
AC Conducted Emission	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Data Link with Notebook) + Earphone + GNSS RX + SIM 2
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + FM RX + SIM 1
	Mode 1 : GSM 850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) + SIM 1
	Mode 2: GSM 1900 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM 2
Radiated Emissions	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Data Link with Notebook) + Earphone + GNSS RX + SIM 2
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN(2.4G) Idle + SD card + USB Cable (Charging from Adapter) + Earphone + FM RX + SIM 1

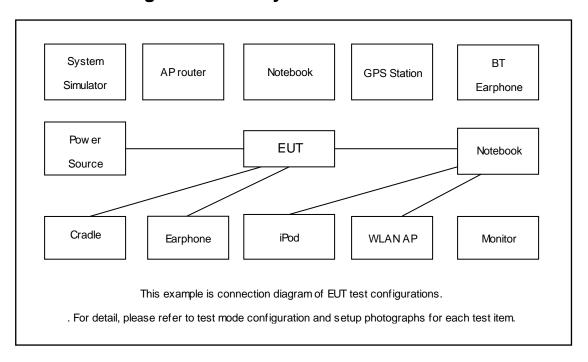
#### Remark:

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

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## 2.2. Connection Diagram of Test System



## 2.3. Support Unit used in test configuration and system

ltem	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.	GNSS Station	ADIVIE	MP9000	N/A	N/A	Unshielded,1.8m
3.	GNSS Station	RACELOGIC	RLLS03-2P	Fcc DoC	N/A	Unshielded,1.8m
4.	iPod	Apple	MC69029/A	FCC DoC	N/A	N/A
5.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
7.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
8.	iPod	Apple	MC525 ZP/A	DoC	Shielded, 1.0m	N/A
9.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A
12.	SD Card	Kingston	3300-10000-078	Fcc DoC	N/A	N/A
13.	FM Base Station	R&S	SMB100A	Fcc DoC	N/A	Shielded, 1.5m

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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. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
- 3. Turn on camera to capture images.
- 4. Turn on FM receiver function to make the EUT receive continuous signals from FM station.
- 5. Execute "Video player" to play MPEG4 files.

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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.

#### <Class B Limit>

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			

<sup>\*</sup>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

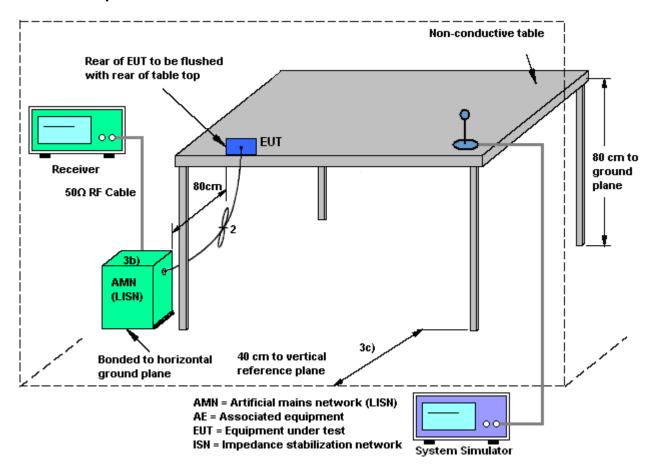
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least
   80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.
- 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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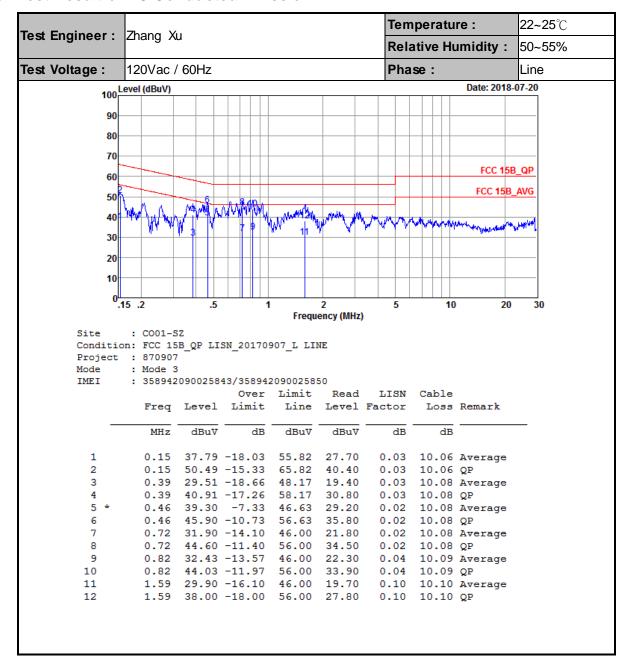
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### 3.1.4 Test Setup



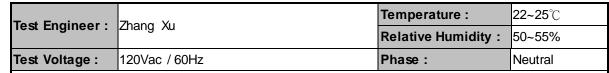
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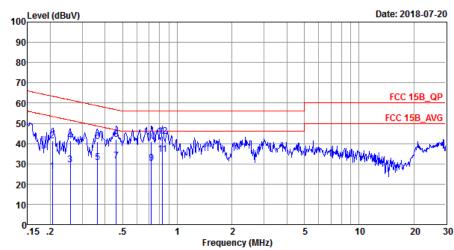
#### 3.1.5 Test Result of AC Conducted Emission



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Site : CO01-SZ

Condition: FCC 15B\_QP LISN\_20170907\_N NEUTRAL

Project : 870907 Mode : Mode 3

IMEI : 358942090025843/358942090025850

				- 1 1 .				
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu₹	dBu₹	dB	dB	
1	0.21	26.30	-27.10	53.40	16.20	0.03	10.07	Average
2	0.21	41.20	-22.20	63.40	31.10	0.03	10.07	QP
3	0.26	29.61	-21.90	51.51	19.50	0.03	10.08	Average
4	0.26	41.31	-20.20	61.51	31.20	0.03	10.08	QP
5	0.36	30.60	-18.05	48.65	20.50	0.02	10.08	Average
6	0.36	41.00	-17.65	58.65	30.90	0.02	10.08	QP
7	0.46	31.40	-15.27	46.67	21.30	0.02	10.08	Average
8	0.46	42.10	-14.57	56.67	32.00	0.02	10.08	QP
9	0.72	30.30	-15.70	46.00	20.20	0.02	10.08	Average
10	0.72	40.90	-15.10	56.00	30.80	0.02	10.08	QP
11 *	0.83	34.72	-11.28	46.00	24.60	0.03	10.09	Average
12	0.83	43.52	-12.48	56.00	33.40	0.03	10.09	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:

#### <Class B Limit>

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.

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#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 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

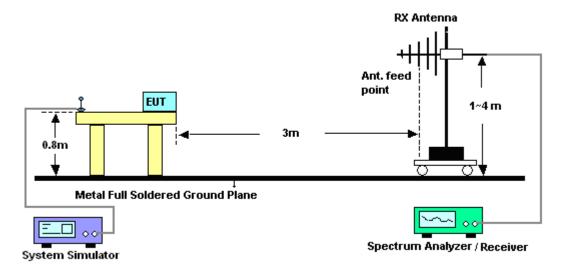
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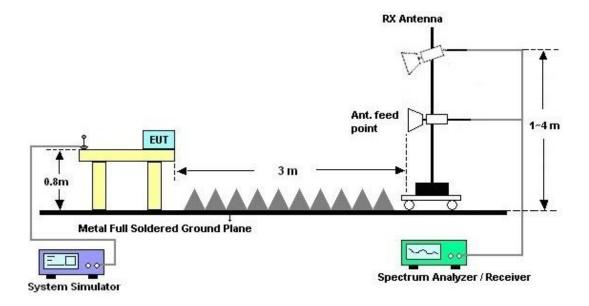
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



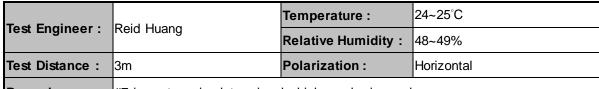
#### For radiated emissions above 1GHz



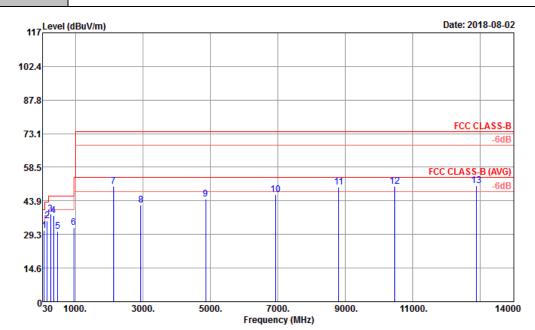
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#### 3.2.5. Test Result of Radiated Emission



Remark: #7 is system simulator signal which can be ignored.



Site : 03CH03-SZ

Condition : FCC CLASS-B 3m LF47611\_CBL6111D\_6 HORIZONTAL Project : 870907

Project : 870907 Mode : Mode 4

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	11 64	rever	LIMIT	LINE	rever	I ac coi	LU33	I ac coi			Kelliai K
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	80.44	31.10	-8.90	40.00	49.27	13.30	0.93	32.40			Peak
2	167.74	35.04	-8.46	43.50	49.68	15.90	1.34	31.88			Peak
3	266.68	38.24	-7.76	46.00	48.95	19.64	1.71	32.06	126	51	Peak
4	361.74	37.50	-8.50	46.00	46.56	20.83	2.01	31.90			Peak
5	480.08	30.67	-15.33	46.00	36.35	23.42	2.34	31.44			Peak
6	960.23	32.13	-21.87	54.00	32.66	27.21	3.41	31.15			Peak
7	2132.50	50.09			76.46	27.43	4.75	58.55			Peak
8	2948.00	42.11	-31.89	74.00	65.94	28.48	6.34	58.65			Peak
9	4862.00	44.54	-29.46	74.00	63.13	31.15	8.60	58.34			Peak
10	6938.00	46.67	-27.33	74.00	60.96	34.86	10.06	59.21			Peak
11	8812.00	49.75	-24.25	74.00	60.76	37.88	10.87	59.76			Peak
12	10472.00	50.06	-23.94	74.00	59.20	39.97	11.67	60.78			Peak
13	12892.00	50.52	-23.48	74.00	56.77	40.62	12.61	59.48	137	260	Peak

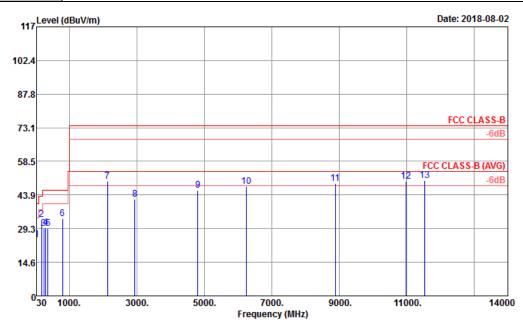
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Test Engineer	Reid Huang	Temperature :	24~25°C
rest Engineer:		Relative Humidity:	48~49%
Test Distance :	3m	Polarization :	Vertical

Remark: #7 is system simulator signal which can be ignored.



Site

: 03CH03-SZ : FCC CLASS-B 3m LF47611\_CBL6111D\_6 VERTICAL Condition

: 870907 Project Mode : Mode 4

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	24.29	-15.71	40.00	31.70	24.62	0.57	32.60			Peak
2	175.50	33.22	-10.28	43.50	48.06	15.53	1.35	31.72	100	258	Peak
3	242.43	29.30	-16.70	46.00	41.78	17.90	1.63	32.01			Peak
4	299.66	29.68	-16.32	46.00	40.46	19.40	1.82	32.00			Peak
5	363.68	29.33	-16.67	46.00	38.33	20.88	2.02	31.90			Peak
6	799.21	33.57	-12.43	46.00	35.97	26.10	3.10	31.60			Peak
7	2132.50	49.88			76.25	27.43	4.75	58.55			Peak
8	2944.00	42.12	-31.88	74.00	65.99	28.43	6.34	58.64			Peak
9	4816.00	46.04	-27.96	74.00	64.69	31.10	8.59	58.34			Peak
10	6244.00	47.59	-26.41	74.00	63.53	33.12	9.62	58.68			Peak
11	8882.00	48.92	-25.08	74.00	59.84	37.96	10.90	59.78			Peak
12	10982.00	49.88	-24.12	74.00	57.15	40.57	11.86	59.70			Peak
13	11528.00	50.26	-23.74	74.00	56.70	41.14	12.06	59.64	125	246	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 Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 19, 2018	Aug. 02, 2018	Apr. 18, 2019	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 19, 2018	Aug. 02, 2018	Apr. 18, 2019	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2018	Aug. 02, 2018	Apr. 18, 2019	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1355	1GHz~18GHz	Mar. 29 2018	Aug. 02, 2018	Mar. 28, 2019	Radiation (03CH03-SZ)
LF Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 19, 2017	Aug. 02, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101 800-30-10P-R	1943528	1GHz~18GHz	Oct.19, 2017	Aug. 02, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
AC Pow er Source	Chroma	61601	61601000198 5	N/A	NCR	Aug. 02, 2018	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 02, 2018	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 02, 2018	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2017	Jul. 20, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Dec. 26, 2017	Jul. 20, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Nov. 01, 2017	Jul. 20, 2018	Oct. 31, 2018	Conduction (CO01-SZ)
AC Pow er Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 18, 2018	Jul. 20, 2018	Jul. 17, 2019	Conduction (CO01-SZ)

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 Confidence	2.6 dB
of 95% (U = 2Uc(y))	2.0 UB

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

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	3.0 dB

#### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	4.8 dB
of 95% (U = 2Uc(y))	4.0 UD

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