FCC Test Report

APPLICANT	:	**SHARP CORPORATION, IoT Communication BU**
EQUIPMENT	:	**Smart Phone**
FCC ID	:	**APYHRO00246**
STANDARD	:	**FCC 47 CFR FCC Part 15 Subpart B**
CLASSIFICATION	:	**Certification**

The product was received on Aug. 23, 2016 and testing was completed on Nov. 13, 2016. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Louis Wu

Reviewed by: Louis Wu / Manager

Jones Tsai

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC682304	Rev. 01	Initial issue of report	Dec. 29, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 12.10 dB at 0.166 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.48 dB at 87.600 MHz for Quasi-Peak

1. General Description

1.1. Applicant

SHARP CORPORATION, IoT Communication BU
2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi,Hiroshima pref. 739-0192, Japan

1.2. Manufacturer

FIH Co., LTD.
No.4, Minsheng St., Tucheng Dist., New Taipei City 23679, Taiwan (R.O.C.)

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
FCC ID	APYHRO00246
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 WLAN 11a HT20/ HT40 Bluetooth BR/EDR/LE
HW Version	DVT
SW Version	000C_1_050
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.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM1900: 1850.2 MHz ~ 1909.8MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM1900: 1930.2 MHz ~ 1989.8 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz
Antenna Type	WWAN : PIFA Antenna LTE : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna
Type of Modulation	GSM: GMSK 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK

1.5. Modification of EUT

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

1.6. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 and TW1023) under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	CO05-HY	03CH06-HY

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 30-2, Dingfu Tsuen, Linkou District, New Taipei City, Taiwan 244, R.O.C. TEL: +886-2-2603-5367 / +886-2-2601-1640 FAX: +886-2-2601-1695	
Test Site No.	**Sporton Site No.**	**FCC Registration No.**
	OS03-LK	TW1023

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.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

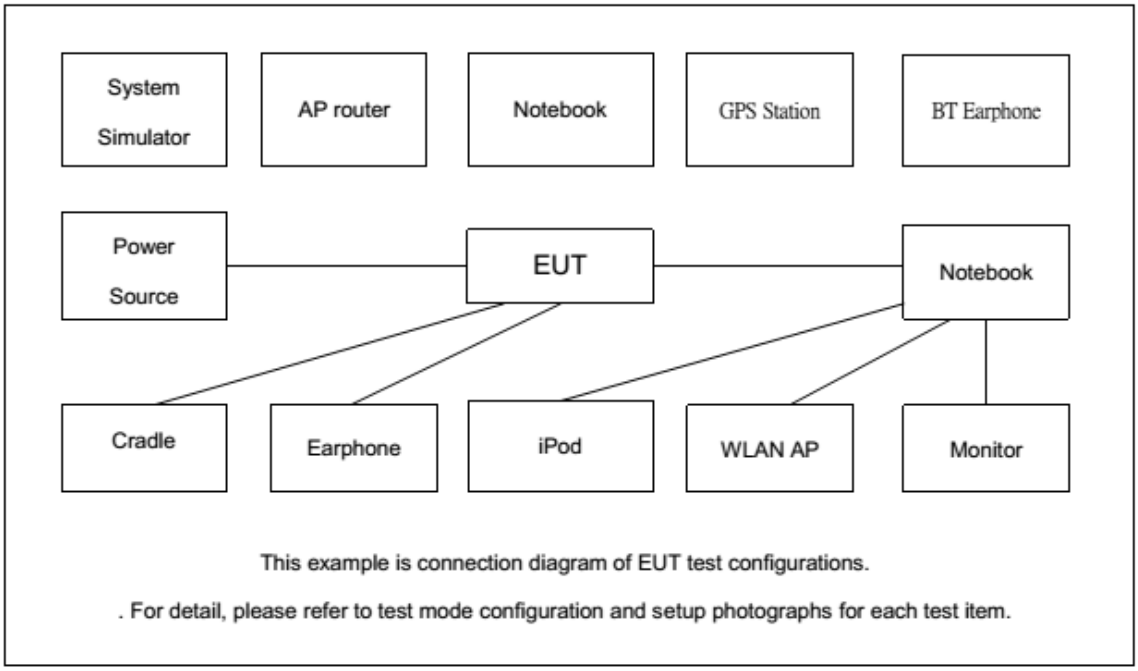
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter) Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + MPEG4 + USB Cable (Charging from Adapter) Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Camera (Front) + USB Cable (Charging from Adapter) Mode 4: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + Camera (Rear) + USB Cable (Charging from Adapter) Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Glonass Rx + USB Cable (Data Link with Notebook)
Radiated Emissions < 1GHz	Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter) Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + MPEG4 + USB Cable (Charging from Adapter) Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Camera (Front) + USB Cable (Charging from Adapter) Mode 4: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + Camera (Rear) + USB Cable (Charging from Adapter) Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Glonass Rx + USB Cable (Data Link with Notebook)
Radiated Emissions ≥ 1GHz	Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)

Remark:

1. The worst case of AC is mode 5; only the test data of this mode was reported.
2. The worst case of RE < 1G is mode 1; only the test data of this mode was reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

2.2. Connection Diagram of Test System



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	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	iPod Earphone	Apple	A1285	FCC DoC	Shielded, 1.2 m	N/A
7.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
9.	Adapter	SHARP	DSA-10PFL-05 FEU050200	NA	NA	NA
10.	USB Cable	SHARP	CUBB01M-F A002-DH	NA	Shielded 1.0m	NA

2.4. EUT Operation Test Setup

The EUT was in GSM 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. Turned on Camera (Front) function.
2. Turned on Camera (Rear) function.
3. Data application is transferred between Laptop and EUT (SD Card).
4. Execute "Windows Media Player" to play MPEG4 files.
5. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.

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 (MHz)	Conducted limit (dBuV)	
	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.

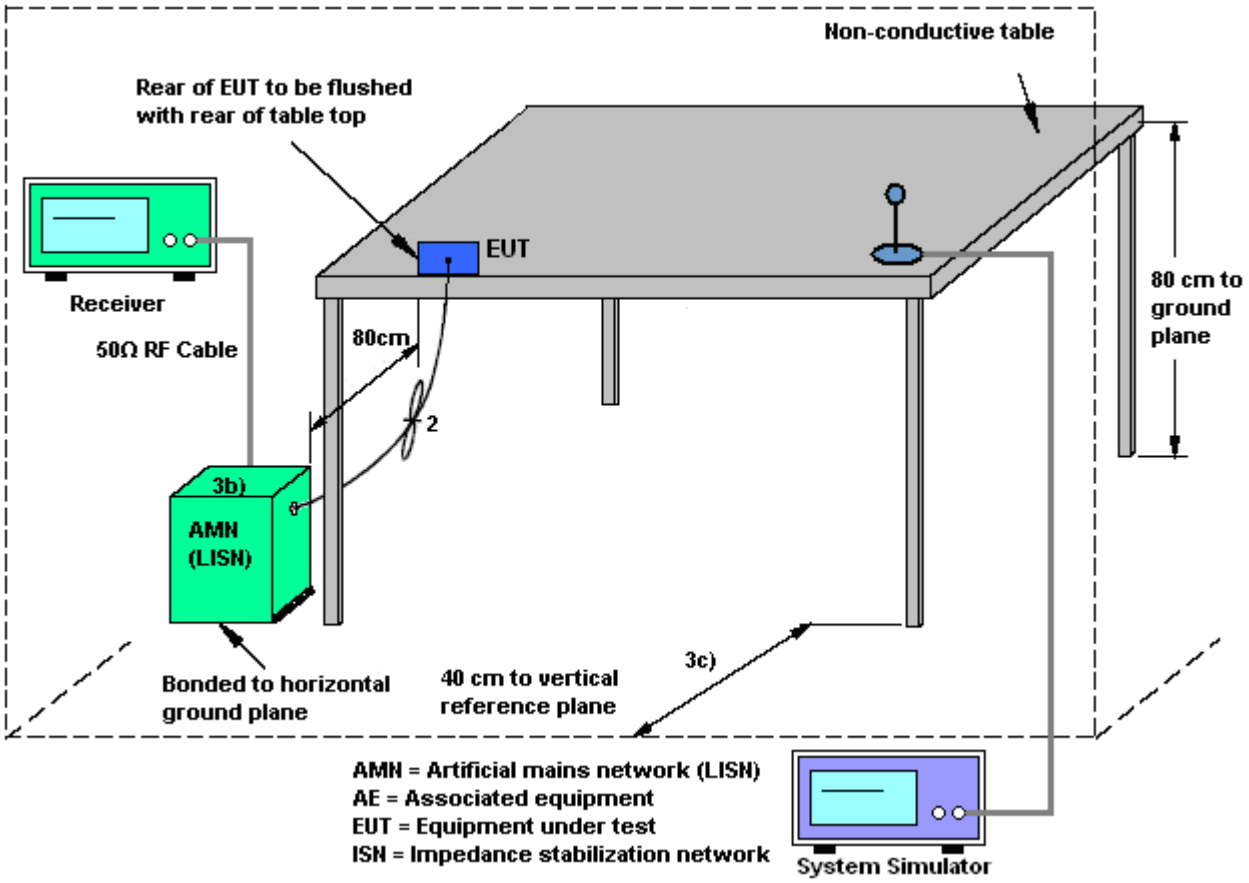
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

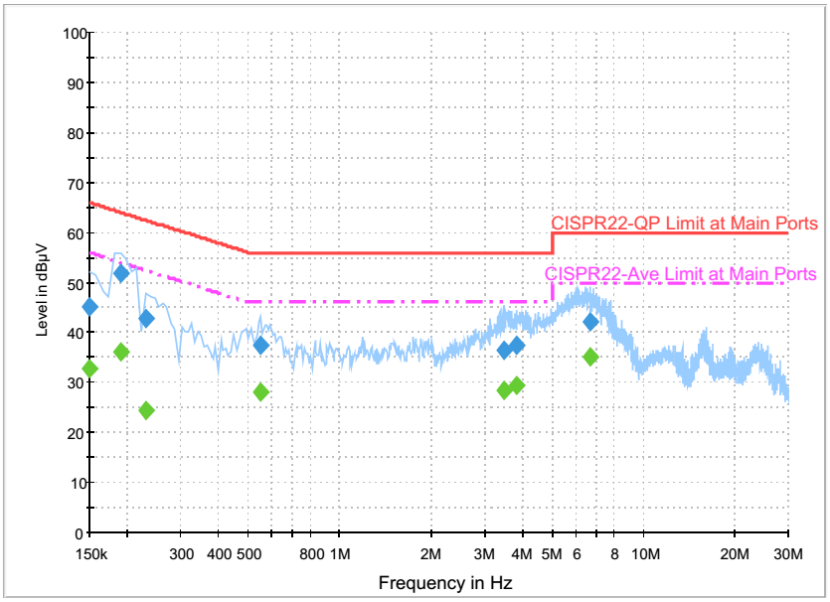
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 5	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~52%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Glonass Rx + USB Cable (Data Link with Notebook)		



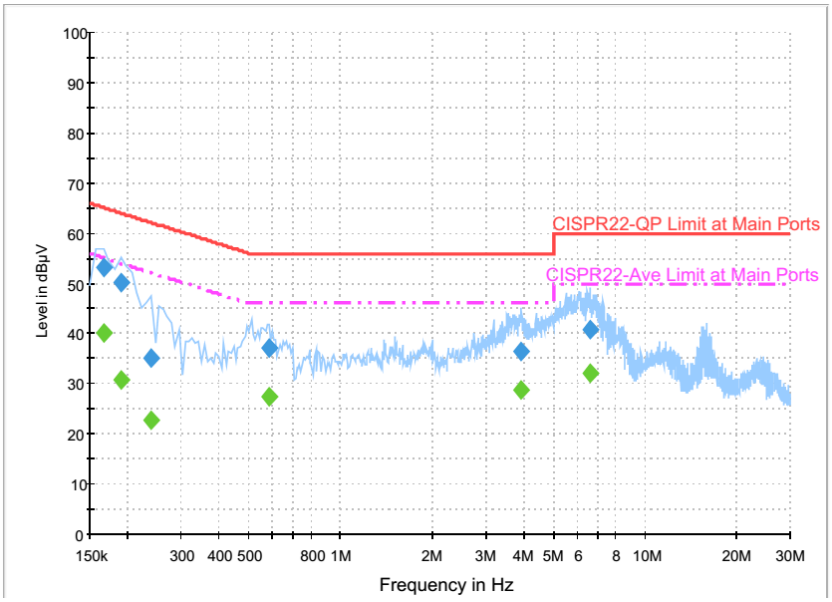
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	45.1	Off	L1	19.6	20.9	66.0
0.190000	51.8	Off	L1	19.6	12.2	64.0
0.230000	42.9	Off	L1	19.6	19.5	62.4
0.550000	37.4	Off	L1	19.6	18.6	56.0
3.462000	36.4	Off	L1	19.7	19.6	56.0
3.830000	37.3	Off	L1	19.8	18.7	56.0
6.710000	42.3	Off	L1	20.0	17.7	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	32.8	Off	L1	19.6	23.2	56.0
0.190000	36.2	Off	L1	19.6	17.8	54.0
0.230000	24.5	Off	L1	19.6	27.9	52.4
0.550000	28.3	Off	L1	19.6	17.7	46.0
3.462000	28.4	Off	L1	19.7	17.6	46.0
3.830000	29.5	Off	L1	19.8	16.5	46.0
6.710000	35.2	Off	L1	20.0	14.8	50.0

Test Mode :	Mode 5	Temperature :	21~23℃
Test Engineer :	Arthur Hsieh	Relative Humidity :	51~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + Glonass Rx + USB Cable (Data Link with Notebook)		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	53.1	Off	N	19.6	12.1	65.2
0.190000	50.2	Off	N	19.6	13.8	64.0
0.238000	35.2	Off	N	19.6	27.0	62.2
0.582000	37.1	Off	N	19.6	18.9	56.0
3.926000	36.5	Off	N	19.8	19.5	56.0
6.598000	40.7	Off	N	19.9	19.3	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	40.1	Off	N	19.6	15.1	55.2
0.190000	30.6	Off	N	19.6	23.4	54.0
0.238000	22.7	Off	N	19.6	29.5	52.2
0.582000	27.3	Off	N	19.6	18.7	46.0
3.926000	28.7	Off	N	19.8	17.3	46.0
6.598000	32.1	Off	N	19.9	17.9	50.0

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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Note: Measurement below 1GHz follows the CISPR 22 limit line as below：

15.109 (g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, “Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement”

Frequency (MHz)	Field Strength (dBuV/meter)	Measurement Distance (meters)
30 – 230	30	10
230 – 1000	37	10

3.2.2. Measuring Instruments

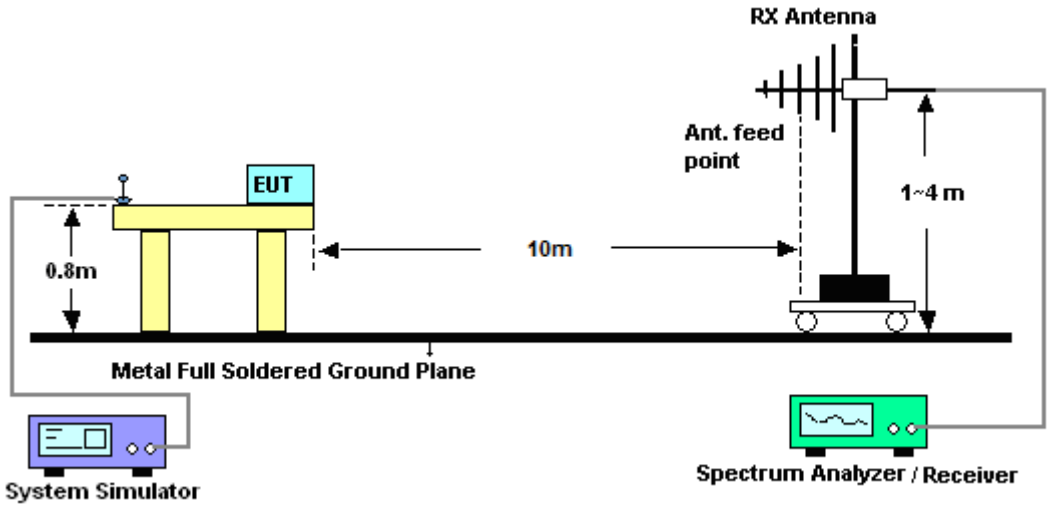
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

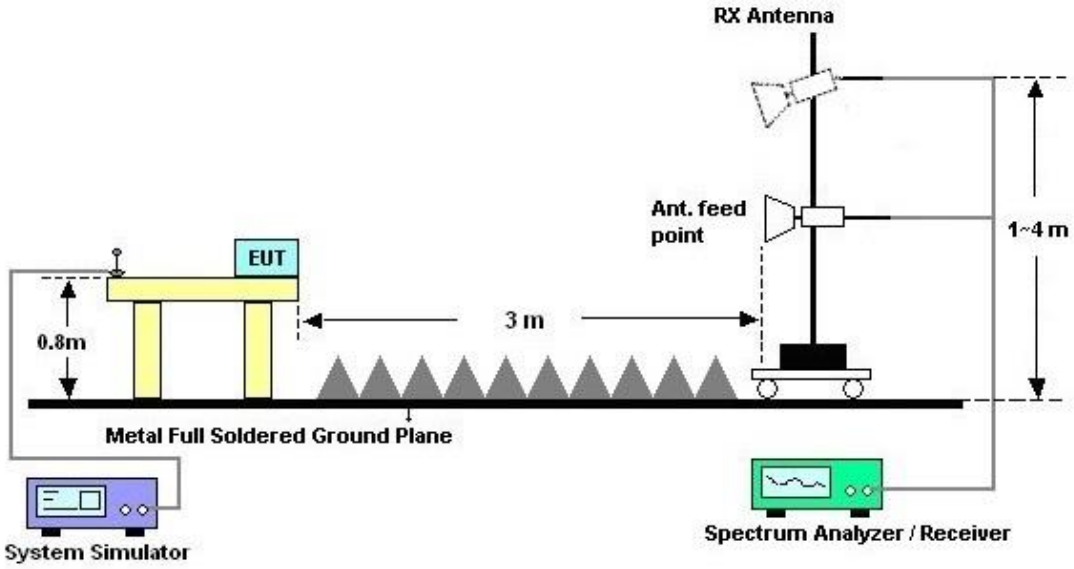
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 10 meters (30M~1G) and 3 meters (1G~ 13G) from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the 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 (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

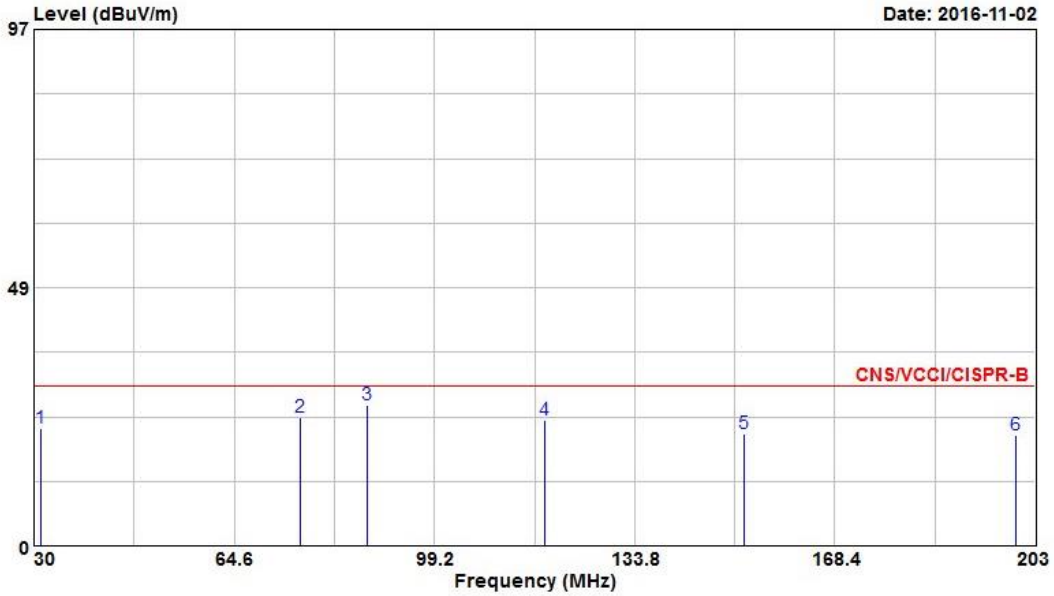


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

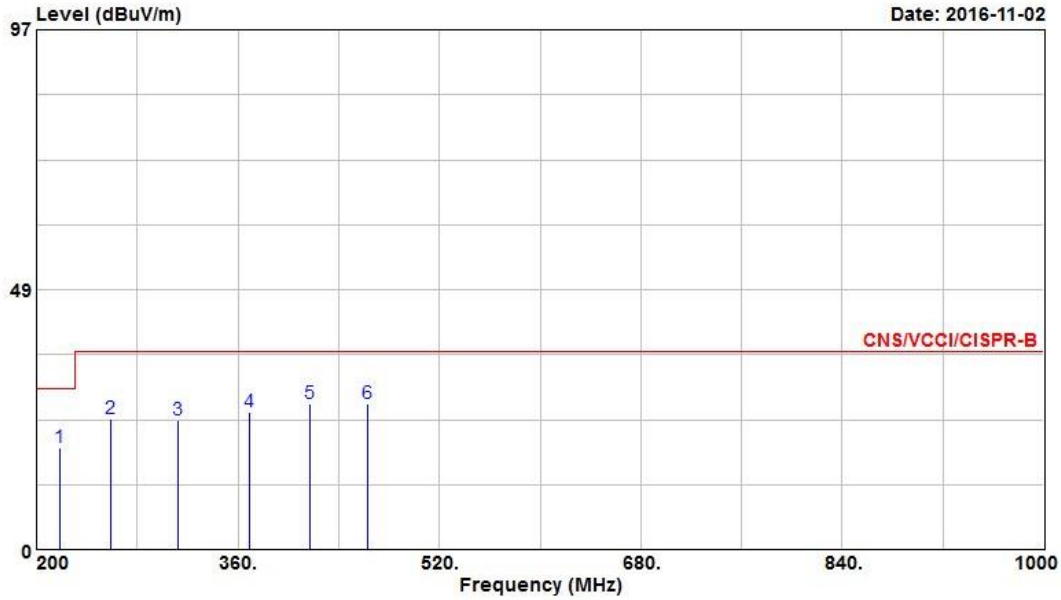
Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Eric Jeng	Relative Humidity :	48~52%
Test Distance :	10m	Polarization :	Horizontal
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		



Site : OS03-LK
Condition : CNS/VCCI/CISPR-B 10m HORIZONTAL
Project : 682304
Power : 120Vac/60Hz
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.210	22.04	-7.96	30.00	25.99	22.16	0.89	27.00	Peak	---	---
2 @	75.900	24.26	-5.74	30.00	38.36	11.50	1.33	26.93	Peak	---	---
3 @	87.600	26.52	-3.48	30.00	38.60	13.44	1.39	26.91	QP	399	68
4 @	118.230	23.57	-6.43	30.00	31.42	17.31	1.73	26.89	Peak	---	---
5	152.660	21.03	-8.97	30.00	30.63	15.55	1.74	26.89	Peak	---	---
6	199.710	20.82	-9.18	30.00	31.15	14.43	2.13	26.89	Peak	---	---

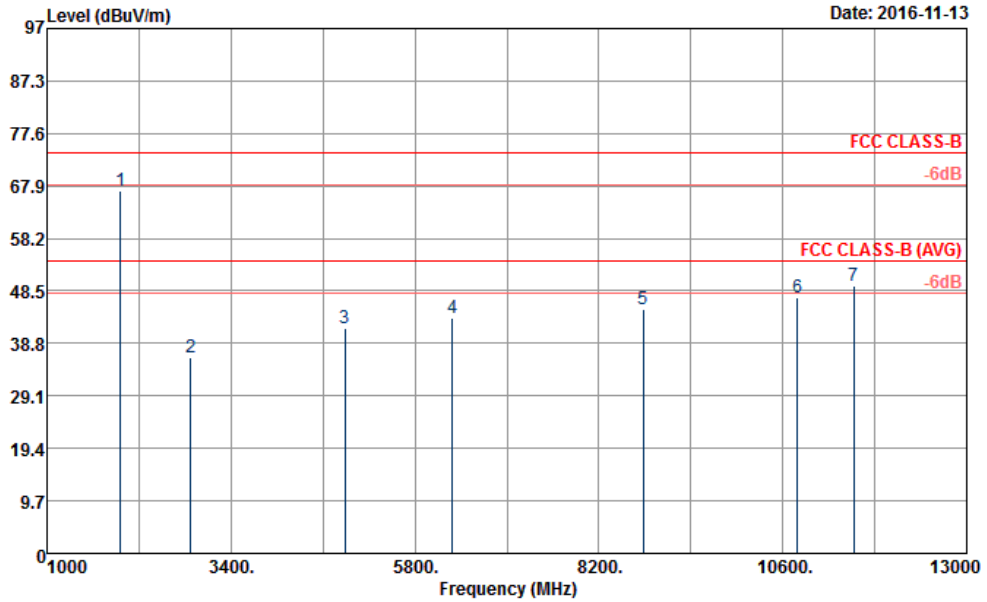
Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Eric Jeng	Relative Humidity :	48~52%
Test Distance :	10m	Polarization :	Horizontal
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		



Site : OS03-LK
Condition : CNS/VCCI/CISPR-B 10m HORIZONTAL
Project : 682304
Power : 120Vac/60Hz
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	218.400	19.07	-10.93	30.00	29.31	14.29	2.25	26.78	Peak	---	---
2	259.200	24.35	-12.65	37.00	29.80	18.56	2.51	26.52	Peak	---	---
3	312.800	24.17	-12.83	37.00	29.32	18.58	2.64	26.37	Peak	---	---
4	368.800	25.70	-11.30	37.00	29.60	19.80	3.13	26.83	Peak	---	---
5	416.800	27.22	-9.78	37.00	29.55	21.50	3.34	27.17	Peak	---	---
6	463.200	27.12	-9.88	37.00	28.87	22.17	3.48	27.40	Peak	---	---

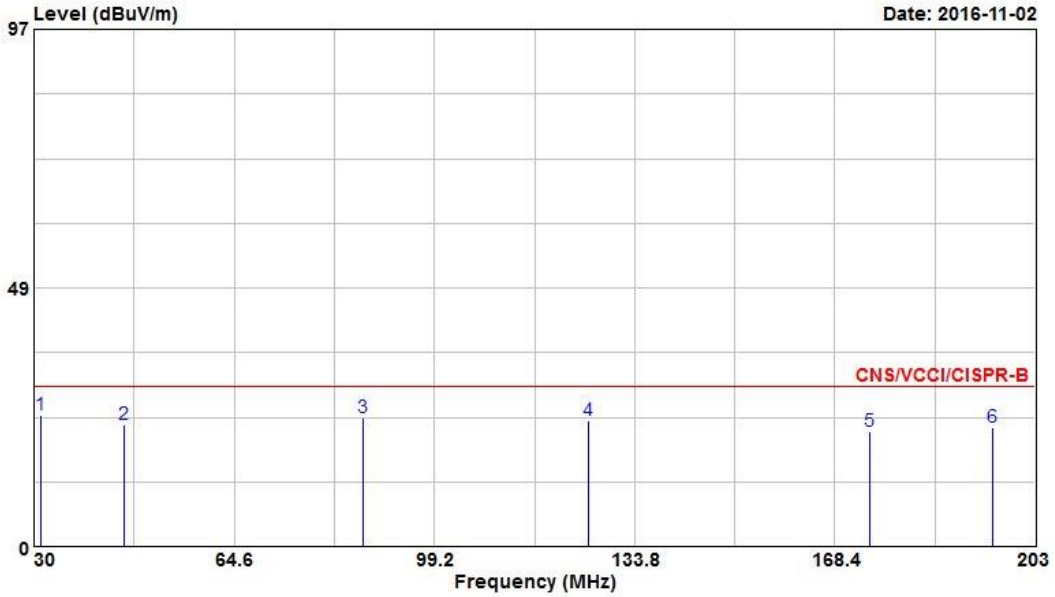
Test Mode :	Mode 1	**Temperature :**	21~23°C
Test Engineer :	Derreck Chen	**Relative Humidity :**	50~52%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		
Remark :	#1 is system simulator signal which can be ignored.		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m 9120D_1156_160817 HORIZONTAL
Project : 682304
Power : 120Vac/60Hz
Memo : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1960.00	66.97			94.50	26.56	6.31	60.40	---	---	Peak
2	2874.00	36.33	-37.67	74.00	60.86	28.57	7.59	60.69	---	---	Peak
3	4884.00	41.48	-32.52	74.00	58.88	31.58	11.11	60.09	---	---	Peak
4	6294.00	43.42	-30.58	74.00	55.88	35.17	11.92	59.55	---	---	Peak
5	8778.00	45.23	-28.77	74.00	52.08	38.27	14.48	59.60	---	---	Peak
6	10794.00	47.23	-26.77	74.00	50.74	41.00	14.73	59.24	---	---	Peak
7	11528.00	49.36	-24.64	74.00	48.93	42.42	16.02	58.01	100	0	Peak

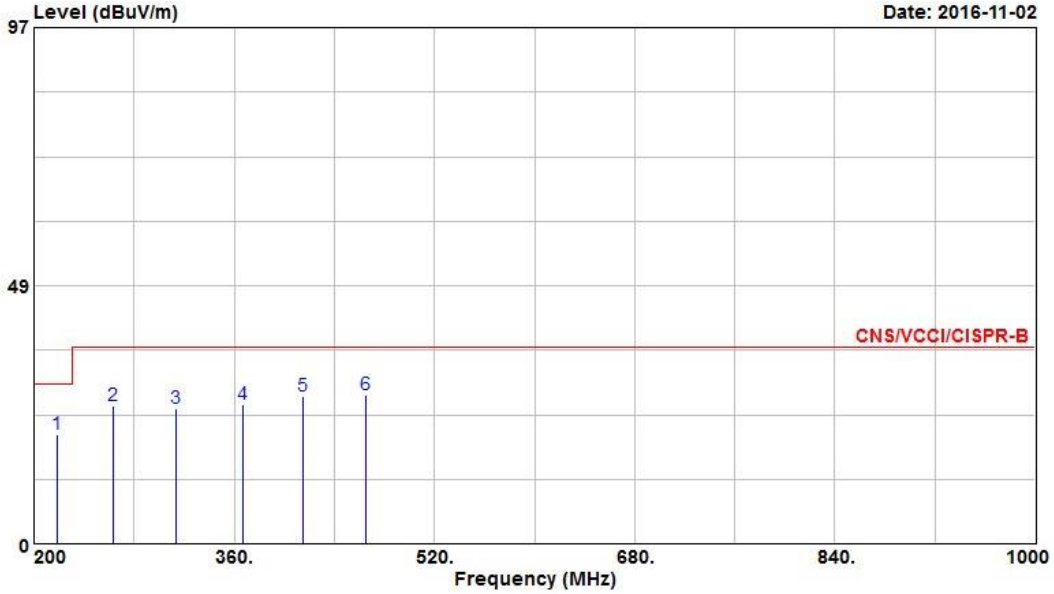
Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Eric Jeng	Relative Humidity :	48~52%
Test Distance :	10m	Polarization :	Vertical
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		



Site : OS03-LK
Condition : CNS/VCCI/CISPR-B 10m VERTICAL
Project : 682304
Power : 120Vac/60Hz
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 @	31.210	24.56	-5.44	30.00	28.51	22.16	0.89	27.00	Peak	100	23
2 @	45.570	22.78	-7.22	30.00	33.68	15.00	1.08	26.98	Peak	---	---
3 @	86.790	24.06	-5.94	30.00	36.14	13.44	1.39	26.91	Peak	---	---
4 @	125.840	23.66	-6.34	30.00	31.60	17.12	1.83	26.89	Peak	---	---
5	174.460	21.52	-8.48	30.00	31.78	14.59	2.04	26.89	Peak	---	---
6	195.730	22.35	-7.65	30.00	32.84	14.28	2.12	26.89	Peak	---	---

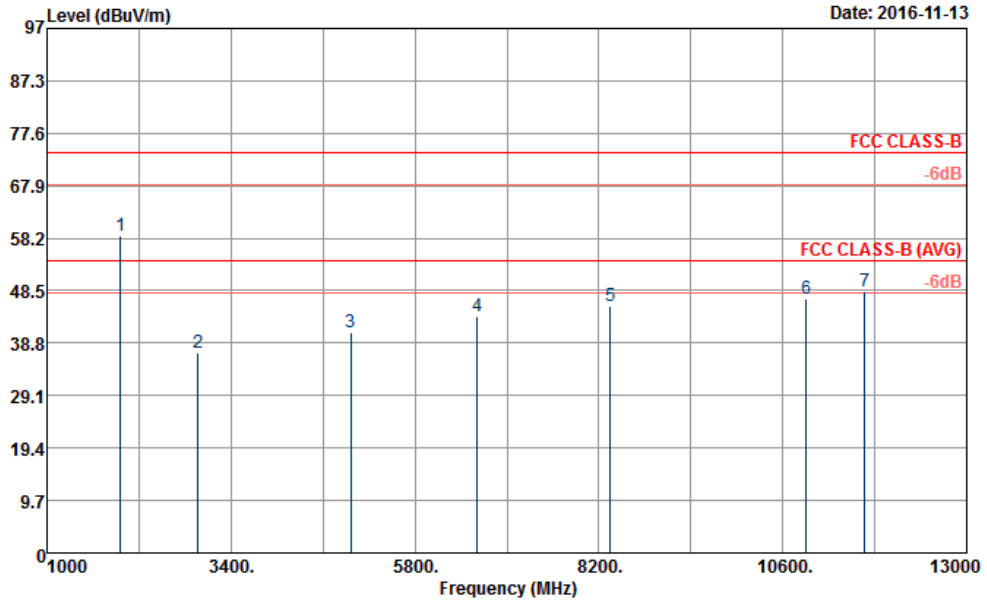
Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Eric Jeng	Relative Humidity :	48~52%
Test Distance :	10m	Polarization :	Vertical
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		



Site : OS03-LK
Condition : CNS/VCCI/CISPR-B 10m VERTICAL
Project : 682304
Power : 120Vac/60Hz
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	218.400	20.58	-9.42	30.00	30.82	14.29	2.25	26.78	Peak	---	---
2	263.200	26.02	-10.98	37.00	31.54	18.45	2.53	26.50	Peak	---	---
3	313.600	25.40	-11.60	37.00	30.55	18.58	2.64	26.37	Peak	---	---
4	367.200	26.19	-10.81	37.00	30.08	19.79	3.13	26.81	Peak	---	---
5	415.200	27.62	-9.38	37.00	30.01	21.44	3.33	27.16	Peak	---	---
6	465.600	27.93	-9.07	37.00	29.68	22.18	3.48	27.41	Peak	---	---

Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Derreck Chen	Relative Humidity :	50~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + GPS Rx + USB Cable (Charging from Adapter)		
Remark :	#1 is system simulator signal which can be ignored.		



Site : 03CH06-HY
Condition : FCC CLASS-B 3m 9120D_1156_160817 VERTICAL
Project : 682304
Power : 120Vac/60Hz
Memo : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1960.00	58.56			86.09	26.56	6.31	60.40	---	---	Peak
2	2968.00	37.04	-36.96	74.00	61.18	28.97	7.66	60.77	---	---	Peak
3	4964.00	40.85	-33.15	74.00	57.70	31.74	11.22	59.81	---	---	Peak
4	6614.00	43.71	-30.29	74.00	55.50	35.77	12.40	59.96	---	---	Peak
5	8350.00	45.79	-28.21	74.00	53.22	38.31	13.46	59.20	---	---	Peak
6	10906.00	46.91	-27.09	74.00	49.89	41.00	14.94	58.92	---	---	Peak
7	11674.00	48.45	-25.55	74.00	48.63	41.67	16.29	58.14	100	0	Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 03, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Nov. 03, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Nov. 03, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Nov. 03, 2016	Dec. 13, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Nov. 03, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Nov. 03, 2016	Jan. 07, 2017	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 07, 2016	Nov. 13, 2016	Jan. 06, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	Nov. 13, 2016	Aug. 04, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jun. 22, 2016	Nov. 13, 2016	Jun. 21, 2017	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Nov. 13, 2016	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Nov. 13, 2016	N/A	Radiation (03CH06-HY)
Open Area Test Site	SPORTON	OATS-10	OS03-LK	30 MHz ~ 1 GHz 10m, 3m	May 21, 2016	Nov. 04, 2016	May 20, 2017	Radiation (OS03-LK)
Amplifier	HP	8447D	2944A09068	0.1MHz ~ 1.3GHz	Dec. 11, 2015	Nov. 04, 2016	Dec. 10, 2016	Radiation (OS03-LK)
Spectrum Analyzer	R&S	FSP 7	100641	9 kHz ~ 7 GHz	Jun. 23, 2016	Nov. 04, 2016	Jun. 22, 2017	Radiation (OS03-LK)
Test Receiver	R&S	ESCS 30	836858/024	9 kHz ~ 2.75 GHz	Jun. 24, 2016	Nov. 04, 2016	Jun. 23, 2017	Radiation (OS03-LK)
Bilog Antenna with 5dB Attenuator	TESEQ & WOKEN	CBL6112D & 00800N1D01N-05	25236 & 007	30 MHz ~ 1 GHz	Jul. 30, 2016	Nov. 04, 2016	Jul. 29, 2017	Radiation (OS03-LK)
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	N/A	Nov. 04, 2016	N/A	Radiation (OS03-LK)
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	N/A	Nov. 04, 2016	N/A	Radiation (OS03-LK)
RF Cable-R10m	MVE	CFD400E-LW	OS03-2500	30 MHz ~ 1 GHz	Jun. 02, 2016	Nov. 04, 2016	Jun. 01, 2017	Radiation (OS03-LK)
RF Cable-R03m	MVE	CFD400E-LW	OS03-1800	30 MHz ~ 1 GHz	Jun. 02, 2016	Nov. 04, 2016	Jun. 01, 2017	Radiation (OS03-LK)

5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 13000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.70**