

Report No. : FC890804-02



# FCC TEST REPORT

FCC ID	:	IHDT56XP3
Equipment	:	Mobile Cellular Phone
Brand Name	:	Motorola
Model Name	:	XT1962-5
Applicant	:	Motorola Mobility LLC
		222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer	:	Motorola Mobility LLC
		222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Standard	:	FCC 47 CFR FCC Part 15 Subpart B

The product was received on Sep. 08, 2018 and testing was started from Sep. 24, 2018 and completed on Oct. 17, 2018. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

oelsau

Approved by: Jones Tsai SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Issued Date	: Oct. 31, 2018
Report Version	: 01



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# History of this test report

Report No.	Version	Description	Issued Date
FC890804-02	01	Initial issue of report	Oct. 31, 2018



# Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 9.94 dB at 0.195 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 3.26 dB at 84.270 MHz

Reviewed by: Louis Wu

**Report Producer: Natasha Hsieh** 



### 1. General Description

# 1.1. Product Feature of Equipment Under Test

Product Feature		
Equipment	Mobile Cellular Phone	
Brand Name	Motorola	
Model Name	XT1962-5	
Sample 1	Dual SIM	
Sample 2	Single SIM	
FCC ID	IHDT56XP3	
IMEI Code	MEI 1: 359505090015277 Conduction : IMEI 2: 359505090015285 IMEI : 359504090002666 IMEI 1: 359505090015632 Radiation : IMEI 2: 359505090015640 IMEI : 359504090002682	
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC/FM WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 Bluetooth BR/EDR/LE	
HW Version	DVT1B	
EUT Stage	Identical Prototype	

Remark: The above EUT's information was declared by manufacturer.



Accessory List		
	Brand Name :	Motorola
AC Adapter 1	Model Name :	SC-51
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1	Model Name :	SC-52
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1	Model Name :	SC-55
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1	Model Name :	SC-53
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 2	Model Name :	SC-51
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2	Model Name :	SC-52
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2	Model Name :	SC-55
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2	Model Name :	SC-53
-	Manufacturer :	Chenyang
	Brand Name :	Motorola
Battery	Model Name :	JG30
-	Manufacturer :	Amperex
	Brand Name :	Motorola
Earphone	Model Name :	SH38C37773
	Manufacturer :	Lyand
	Brand Name :	Cabletech
USB Cable 1	Model Name :	SKN6473A
UCD Cable 2	Brand Name :	Saibao
USB Cable 2	Model Name :	SKN6473A
	Brand Name :	Luxshare
USB Cable 3	Model Name :	SKN6473A



Standards	related Product Specification
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 2657.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 38: 2572.5 MHz ~ 2652.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 38: 2572.5 MHz ~ 2652.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz (GPS/Glonass) NFC : 13.56 MHz FM : 88 MHz ~ 108 MHz



Standards-related Product Specification		
Antenna Type	WWAN : Main : Fixed Internal Antenna and Dipole Antenna Aux. : Fixed Internal Antenna and Dipole Antenna WLAN : Monopole Antenna Bluetooth : Monopole Antenna GPS/Glonass: Monopole Antenna NFC: Coil Antenna FM : Using earphone as antenna	
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: 16QAM (Downlink) HSUPA: QPSK (Uplink) LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (1Mbps) : $\pi$ /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK NFC: ASK FM	

### 1.3. Modification of EUT

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



### 1.4. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1093 and TW1098 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	CO05-HY	
Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868	

### 1.5. 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 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	:GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% + SIM 1 for Sample 1
	Mode 2	:WCDMA Band V Idle + Bluetooth Idle + WLAN Link + Wireless Display + Earphone + USB Cable 2 Type C (Charging from Adapter 2) + Battery 50% + SIM 2 for Sample 1
	Mode 3	:GSM1900 Idle + Bluetooth Idle + WLAN Idle + Camera (Front) + Earphone + USB Cable 3 Type C (Charging from Adapter 1) + Battery > 90% + SIM 1 for Sample 1
	Mode 4	:WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Earphone + USB Cable 1 Type C (Charging from Adapter 2) + Battery < 10% + SIM 1 for Sample 1
	Mode 5	:GSM1900 Idle + Bluetooth Idle + WLAN Idle + NFC On + Earphone + USB Cable 3 Type C (Charging from Adapter 1) + Battery > 90% for Sample 2
AC Conducted Emission	Mode 6	:FM Rx (88 MHz) + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% for Sample 1
	Mode 7	:FM Rx (98 MHz) + Earphone + USB Cable 2 Type C (Charging from Adapter 2) + Battery 50% for Sample 1
	Mode 8	:FM Rx (108 MHz) + Earphone + USB Cable 3 Type C (Charging from Adapter 1) + Battery > 90% for Sample 1
	Mode 9	:FM Rx (88 MHz) + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% for Sample 2
	Mode 10	:GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 Type C (Data Link with Notebook) + SIM 1 for Sample 1
	Mode 11	:WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 2 Type C (Data Link with Notebook) + SIM 2 for Sample 1
	Mode 12	:GSM 1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 3 Type C (Data Link with Notebook) + SIM 1 for Sample 1
	Mode 13	:GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 Type C (Data Link with Notebook) for Sample 2

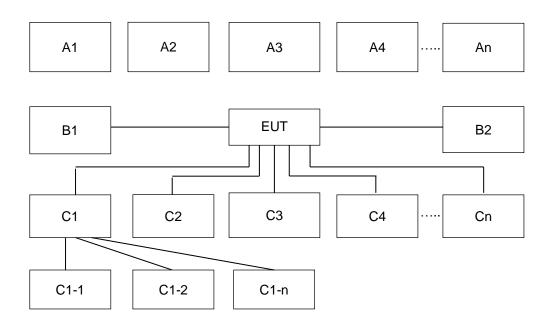


Test Items		Function Type
	Mode 1	:GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% + SIM 1 for Sample 1
	Mode 2	:WCDMA Band V Idle + Bluetooth Idle + WLAN Link + Wireless Display + Earphone + USB Cable 2 Type C (Charging from Adapter 2) + Battery 50% + SIM 2 for Sample 1
	Mode 3	:GSM1900 Idle + Bluetooth Idle + WLAN Idle + Camera (Front) + Earphone + USB Cable 3 Type C (Charging from Adapter 1) + Battery > 90% + SIM 1 for Sample 1
	Mode 4	:WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Earphone + USB Cable 1 Type C (Charging from Adapter 2) + Battery < 10% + SIM 1 for Sample 1
	Mode 5	:WCDMA Band V Idle + Bluetooth Idle + WLAN Link + NFC On + Wireless Display + Earphone + USB Cable 2 Type C (Charging from Adapter 2) + Battery 50% for Sample 1
Radiated Emissions	Mode 6	:FM Rx (88 MHz) + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% for Sample 1
	Mode 7	:FM Rx (98 MHz) + Earphone + USB Cable 2 Type C (Charging from Adapter 2) + Battery 50% for Sample 1
	Mode 8	:FM Rx (88 MHz) + Earphone + USB Cable 1 Type C (Charging from Adapter 1) + Battery < 10% for Sample 2
	Mode 9	:FM Rx (88 MHz) + Earphone + USB Cable 1 Type C (Charging from Adapter 2 (IN Local Build)) + Battery < 10%
	Mode 10	:GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 Type C (Data Link with Notebook) + SIM 1 for Sample 1
	Mode 11	:WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 2 Type C (Data Link with Notebook) + SIM 2 for Sample 1
	Mode 12	:GSM 1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 3 Type C (Data Link with Notebook) + SIM 1 for Sample 1
	Mode 13	:GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable 1 Type C (Data Link with Notebook) for Sample 2

- **1.** The worst case of AC is mode 13; only the test data of this mode was reported.
- 2. The worst case of RE is mode 13; only the test data of this mode was reported.
- **3.** Data Linking with Notebook means data application transferred mode between EUT and Notebook.



### 2.2. Connection Diagram of Test System



	Conduction Test Setup								
No.	Wiroloss Station	Wireless Station Connection Type Test Mode							
NO.	Wireless Station	connection type	1	2	3	4	5	6	7
A1	BT Earphone	Bluetooth	Х	Х	Х	Х	Х		
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE/FM	x	х	x	x	x	x	х
A3	AP router	WiFi	Х	Х	Х	Х	Х	-	-
A4	Wireless Display	Wireless WiFi	- X		-	-	-	-	-
A5	Notebook	WiFi	- X		-	-	-	-	-
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	Х	Х	Х	Х	Х
B2	Power from system	AC Power Cable	-	-	-	-	-	-	-
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Earphone	Earphone jack	Х	Х	Х	Х	Х	Х	Х
C2	SD card	SD I/O interface without Cable	Х	х	х	x	х	х	х
C3	Notebook	USB Cable	-	-	-	-	-	-	-
C3-1	IPod	USB Cable to C1	-	-	-	-	-	-	-
C3-2	Notebook	RJ-45 Cable to C1	-	-	-	-	-	-	-
C3-3	AP router	RJ-45 Cable to C1	-	-	-	-	-	-	-



	Conduction Test Setup								
No.	Wireless Station				Те	st Mo	ode		
NO.	Wireless Station	Connection Type	8	9	10	11	12	13	
A1	BT Earphone	Bluetooth			Х	Х	Х	Х	
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE/FM	Х	х	x	х	х	x	
A3	AP router	WiFi	-	-	Х	Х	Х	Х	
A4	Wireless Display	Wireless WiFi	-	-	-	-	-	-	
A5	Notebook	WiFi			-	-	-	-	
No.	Power Source	Connection Type	8	9	10	11	12	13	
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	-	-	-	-	
B2	Power from system	AC Power Cable	-	-	Х	Х	Х	Х	
No.	Setup Peripherals	Connection Type	8	9	10	11	12	13	
C1	Earphone	Earphone jack	Х	Х	Х	Х	Х	Х	
C2	SD card	SD I/O interface without Cable	Х	x	x	х	х	x	
C3	Notebook	USB Cable	-	-	Х	Х	Х	Х	
C3-1	IPod	USB Cable to C1	-	-	Х	Х	Х	Х	
C3-2	Notebook	RJ-45 Cable to C1	-	-	Х	Х	Х	Х	
C3-3	AP router	RJ-45 Cable to C1	-	-	Х	Х	Х	Х	

	Radiation Test Setup									
No.	Wireless Station	Connection Type			Те	st Mo	ode			
NO.	Wireless Station	Connection Type	1	2	3	4	5	6	7	
A1	BT Earphone	Bluetooth	Х	Х	Х	Х	Х			
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE/FM	x	х	x	x	x	х	х	
A3	AP router	WiFi	Х	Х	Х	Х	Х	-	-	
A4	Wireless Display	Wireless WiFi	-	- X		-	Х	-	-	
A5	Notebook	WiFi	-	- X ·		-	Х	-	-	
No.	Power Source	Connection Type	1	2	3	4	5	6	7	
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	Х	Х	Х	Х	X	
B2	Power from system	AC Power Cable	-	-	-	-	-	-	-	
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7	
C1	Earphone	Earphone jack	Х	Х	Х	Х	Х	Х	Х	
C2	SD card	SD I/O interface without Cable	х	х	x	x	х	x	х	
C3	Notebook	USB Cable	-	-	-	-	-	-	-	
C3-1	IPod	USB Cable to C1	-	-	-	-	-	-	-	
C3-2	Notebook	RJ-45 Cable to C1	-			-	-	-	-	
C3-3	AP router	RJ-45 Cable to C1	-	-	-	-	-	-	-	



	Radiation Test Setup								
No.	Wireless Station				Те	st Mo	ode		
NO.	Wireless Station	Connection Type	8	9	10	11	12	13	
A1	BT Earphone	Bluetooth			Х	Х	Х	Х	
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE/FM	Х	х	x	х	х	x	
A3	AP router	WiFi	-	-	Х	Х	Х	Х	
A4	Wireless Display	Wireless WiFi	-	-	-	-	-	-	
A5	Notebook	WiFi	-	-	-	-	-	-	
No.	Power Source	Connection Type	8	9	10	11	12	13	
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	-	-	-	-	
B2	Power from system	AC Power Cable	-	-	Х	Х	Х	Х	
No.	Setup Peripherals	Connection Type	8	9	10	11	12	13	
C1	Earphone	Earphone jack	Х	Х	Х	Х	Х	Х	
C2	SD card	SD I/O interface without Cable	Х	x	x	х	х	x	
C3	Notebook	USB Cable	-	-	Х	Х	Х	Х	
C3-1	IPod	USB Cable to C1	-	-	Х	Х	Х	Х	
C3-2	Notebook	RJ-45 Cable to C1	-	-	Х	Х	Х	Х	
C3-3	AP router	RJ-45 Cable to C1	-	-	Х	Х	Х	Х	

### 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.	System Simulator	R&S	CMU 200	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.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	Wireless Display	Google	N/A	N/A	N/A	N/A
8.	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
9.	Notebook	DELL	Latitude 5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	SD Card	Transcend	MicroSD HC	FCC DoC	N/A	N/A
11.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



### 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

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 Laptop and EUT via USB cable.
- 2. Execute "Video player" to play MPEG4 files.
- 3. Turn on camera to capture images.
- 4. Turn on FM function.
- 5. Picture synchronization on LCD Monitor via Wireless Display.
- 6. EUT links with Notebook and executes ping

### 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

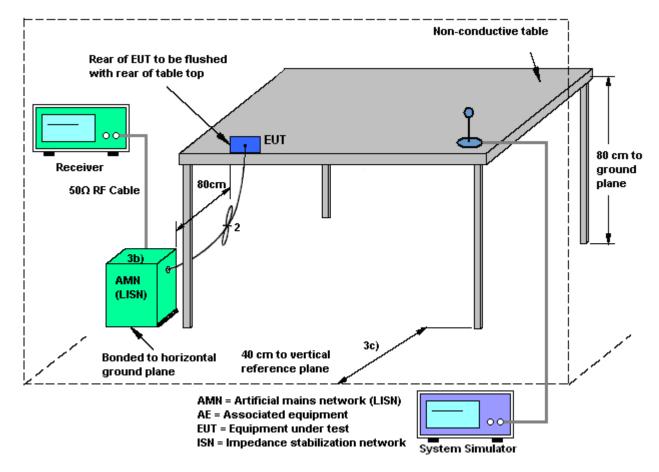
Refer a test equipment and calibration data table in this test report.

#### 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.
- 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

Please refer to Appendix A.

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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**

Refer a test equipment and calibration data table in this test report.

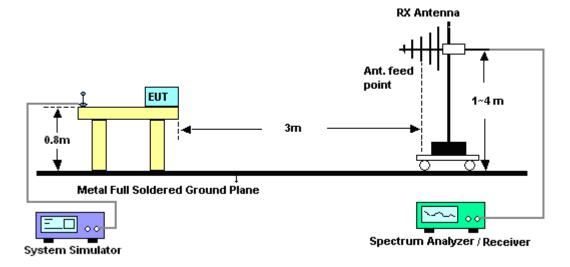
#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 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

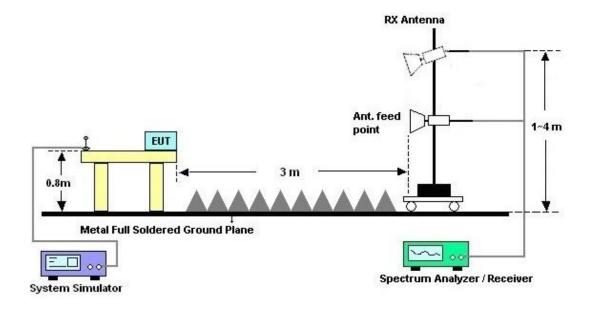


#### 3.2.4. Test Setup of Radiated Emission

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



#### For radiated emissions above 1GHz



#### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



# 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	Sep. 24, 2018~ Oct. 17, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Sep. 24, 2018~ Oct. 17, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Sep. 24, 2018~ Oct. 17, 2018	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Sep. 24, 2018~ Oct. 17, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 24, 2018~ Oct. 17, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Sep. 24, 2018~ Oct. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Sep. 24, 2018~ Oct. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 19, 2017	Sep. 24, 2018~ Oct. 10, 2018	Oct. 18, 2018	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&0080 0N1D01N-06	35413&02	30MHz~1GHz	Dec. 18, 2017	Sep. 24, 2018~ Oct. 10, 2018	Dec. 17, 2018	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Sep. 07, 2018	Sep. 24, 2018~ Oct. 10, 2018	Sep. 06, 2019	Radiation (03CH10-HY)
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Oct. 12, 2017	Sep. 24, 2018~ Oct. 10, 2018	Oct. 11, 2018	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP0010180 0-30-10P	1601185500 04	1GHz~18GHz	Apr. 17, 2018	Sep. 24, 2018~ Oct. 10, 2018	Apr. 16, 2019	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY5420048 5	10Hz ~ 44GHz	Oct. 31, 2017	Sep. 24, 2018~ Oct. 10, 2018	Oct. 30, 2018	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 24, 2018~ Oct. 10, 2018	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Sep. 24, 2018~ Oct. 10, 2018	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Sep. 24, 2018~ Oct. 10, 2018	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Sep. 24, 2018~ Oct. 10, 2018	N/A	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E, MY11693/4P E, MY2855/2	30M-1G	Nov. 14, 2017	Sep. 24, 2018~ Oct. 10, 2018	Nov. 13, 2018	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E, MY11693/4P E, MY2855/2	1G-18G	Nov. 14, 2017	Sep. 24, 2018~ Oct. 10, 2018	Nov. 13, 2018	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY5329005 3	20Hz to 26.5GHz	Jan. 16, 2018	Sep. 24, 2018~ Oct. 10, 2018	Jan. 15, 2019	Radiation (03CH10-HY)



## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.20
of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of Confidence	5.70
of 95% (U = 2Uc(y))	5.70

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

Measuring Uncertainty for a Level of Confidence	5,50
of 95% (U = 2Uc(y))	5.50



# **Appendix A. AC Conducted Emission Test Results**

Frequency         QuasiPeek         CAverage         Link         Margin         Filter         Corr           015020         0150570	lost Engines	Immy C	bang		Tem	-			
Tequency         Qualifiest         CAVERAGE         Limit         Kargin         Line         Filter         Corr           0.152250         52.99					Rela				
Image: constraint of the	Fest Voltage	: 120Vac	/ 60Hz		Pha				
Final Result :         Frequency (MHz)       QuasiPeak (dBuV)       CAverage (dBuV)       Limit (dBuV)       Margin (dB)       Line (dB)       Filter (dB)       Corr. (dB)         0.152250        35.17       55.88       20.71       L1       OFF       19.5         0.152250       52.99        65.88       12.89       L1       OFF       19.5         0.156750        33.60       55.63       22.03       L1       OFF       19.5         0.165750        31.96       55.17       23.21       L1       OFF       19.5         0.165750        31.96       55.17       23.21       L1       OFF       19.5         0.165750       49.25        65.17       15.92       L1       OFF       19.5         0.165750        37.51       53.82       10.31       L1       OFF       19.5         0.179250       52.31        64.52       12.21       L1       OFF       19.5         0.179250        37.51       53.82       16.31       L1       OFF       19.5         0.195000       50.03        63.27		90 80 70 60 50 40 30 20 10 0	300400500	8001 M	2M 3M		R-Ave L	imit a t M a in	Ρ
0.152250         52.99          65.88         12.89         L1         OFF         19.5           0.156750          33.60         55.63         22.03         L1         OFF         19.5           0.156750         53.69          65.63         11.94         L1         OFF         19.5           0.165750          31.96         55.17         23.21         L1         OFF         19.5           0.165750         49.25          65.17         15.92         L1         OFF         19.5           0.179250          34.48         54.52         20.04         L1         OFF         19.5           0.179250         52.31          64.52         12.21         L1         OFF         19.5           0.195000          37.51         53.82         16.31         L1         OFF         19.5           0.195000         50.03          63.27         13.24         L1         OFF         19.5           0.208500          32.17         52.25         20.08         L1         OFF         19.5           0.235500				Fre	auency in	H 7			
0.156750          33.60         55.63         22.03         L1         OFF         19.5           0.156750         53.69          65.63         11.94         L1         OFF         19.5           0.165750          31.96         55.17         23.21         L1         OFF         19.5           0.165750         49.25          65.17         15.92         L1         OFF         19.5           0.179250          34.48         54.52         20.04         L1         OFF         19.5           0.179250         52.31          64.52         12.21         L1         OFF         19.5           0.195000          37.51         53.82         16.31         L1         OFF         19.5           0.195000         53.88          63.82         9.94         L1         OFF         19.5           0.208500          30.71         53.27         22.56         L1         OFF         19.5           0.235500          32.17         52.25         20.08         L1         OFF         19.5           0.321000		Frequency		CAverage	Limit	Margin	Line	Filter	
0.15675053.6965.6311.94L1OFF19.50.16575031.9655.1723.21L1OFF19.50.16575049.2565.1715.92L1OFF19.50.17925034.4854.5220.04L1OFF19.50.17925052.3164.5212.21L1OFF19.50.19500037.5153.8216.31L1OFF19.50.19500053.8863.829.94L1OFF19.50.20850050.0330.7153.2722.56L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.32100025.7449.6823.94L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz)		CAverage (dBuV)	Limit (dBuV)	Margin (dB)			(dB)
0.16575031.9655.1723.21L1OFF19.50.16575049.2565.1715.92L1OFF19.50.17925034.4854.5220.04L1OFF19.50.17925052.3164.5212.21L1OFF19.50.19500037.5153.8216.31L1OFF19.50.19500053.8863.829.94L1OFF19.50.20850050.0363.2713.24L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250	(dBuV) 	CAverage (dBuV) 35.17	Limit (dBuV) 55.88	Margin (dB) 20.71	L1	OFF	(dB) 19.5
0.16575049.2565.1715.92L1OFF19.50.17925034.4854.5220.04L1OFF19.50.17925052.3164.5212.21L1OFF19.50.19500037.5153.8216.31L1OFF19.50.19500053.8863.829.94L1OFF19.50.20850050.0363.2713.24L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100034.5359.6823.94L1OFF19.50.36825032.1458.5426.40L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250	(dBuV)  52.99	CAverage (dBuV) 35.17 	Limit (dBuV) 55.88 65.88	Margin (dB) 20.71 12.89	L1 L1	OFF OFF	(dB) 19.5 19.5
0.17925034.4854.5220.04L1OFF19.50.17925052.3164.5212.21L1OFF19.50.19500037.5153.8216.31L1OFF19.50.19500053.8863.829.94L1OFF19.50.20850030.7153.2722.56L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100034.5359.6823.94L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.156750	(dBuV)  52.99 	CAverage (dBuV) 35.17  33.60 	Limit (dBuV) 55.88 65.88 55.63	Margin (dB) 20.71 12.89 22.03 11.94	L1 L1 L1 L1	OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5
0.179250         52.31          64.52         12.21         L1         OFF         19.5           0.195000          37.51         53.82         16.31         L1         OFF         19.5           0.195000         53.88          63.82         9.94         L1         OFF         19.5           0.208500          30.71         53.27         22.56         L1         OFF         19.5           0.208500         50.03          63.27         13.24         L1         OFF         19.5           0.208500         50.03          63.27         13.24         L1         OFF         19.5           0.235500          32.17         52.25         20.08         L1         OFF         19.5           0.235500         45.79          62.25         16.46         L1         OFF         19.5           0.321000          25.74         49.68         23.94         L1         OFF         19.5           0.368250          24.80         48.54         23.74         L1         OFF         19.5           0.368250         32.14		Frequency (MHz) 0.152250 0.152250 0.156750 0.156750 0.165750	(dBuV)  52.99  53.69 	CAverage (dBuV) 35.17  33.60  31.96	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17	Margin (dB) 20.71 12.89 22.03 11.94 23.21	L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5
0.19500037.5153.8216.31L1OFF19.50.19500053.8863.829.94L1OFF19.50.20850030.7153.2722.56L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.156750 0.165750 0.165750	(dBuV)  52.99  53.69  49.25	CAverage (dBuV) 35.17  33.60  31.96 	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92	L1 L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.19500053.8863.829.94L1OFF19.50.20850030.7153.2722.56L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.32100034.5359.6825.15L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250	(dBuV)  52.99  53.69  49.25 	CAverage (dBuV) 35.17  33.60  31.96 	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 54.52	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04	L1 L1 L1 L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.20850030.7153.2722.56L1OFF19.50.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.32100034.5359.6825.15L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250	(dBuV)  52.99  53.69  49.25  52.31	CAverage (dBuV) 35.17  33.60  31.96  34.48 	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 65.17 54.52 64.52	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.20850050.0363.2713.24L1OFF19.50.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.32100034.5359.6825.15L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250	(dBuV)  52.99  53.69  49.25  52.31 	CAverage (dBuV) 35.17  33.60  31.96  34.48 	Limit (dBuV) 55.88 65.88 65.63 65.63 55.17 65.17 65.17 54.52 64.52 53.82	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.23550032.1752.2520.08L1OFF19.50.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.32100034.5359.6825.15L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.156750 0.156750 0.165750 0.165750 0.179250 0.179250 0.195000	(dBuV)  52.99  53.69  49.25  52.31  53.88	CAverage (dBuV) 35.17  33.60  31.96  34.48  37.51	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 54.52 64.52 53.82 63.82	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.23550045.7962.2516.46L1OFF19.50.32100025.7449.6823.94L1OFF19.50.32100034.5359.6825.15L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.195000 0.195000 0.208500	(dBuV)  52.99  53.69  49.25  52.31  53.88 	CAverage (dBuV) 35.17  33.60  31.96  34.48  37.51  30.71	Limit (dBuV) 55.88 65.83 65.63 65.63 55.17 65.17 65.17 54.52 64.52 53.82 63.82 53.27	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.321000          25.74         49.68         23.94         L1         OFF         19.5           0.321000         34.53          59.68         25.15         L1         OFF         19.5           0.368250          24.80         48.54         23.74         L1         OFF         19.5           0.368250         32.14          58.54         26.40         L1         OFF         19.5           0.525750          29.16         46.00         16.84         L1         OFF         19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.195000 0.208500	(dBuV)  52.99  53.69  49.25  52.31  53.88  53.88	CAverage (dBuV) 35.17  33.60  31.96  34.48  37.51  30.71	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 54.52 64.52 64.52 53.82 63.82 53.27 63.27	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.32100034.5359.6825.15L1OFF19.50.36825024.8048.5423.74L1OFF19.50.36825032.1458.5426.40L1OFF19.50.52575029.1646.0016.84L1OFF19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500	(dBuV)  52.99  53.69  49.25  52.31  53.88  53.88  50.03 	CAverage (dBuV) 35.17  33.60  31.96  34.48  37.51  30.71  32.17	Limit (dBuV) 55.88 65.88 65.63 65.63 55.17 65.17 65.17 64.52 64.52 53.82 63.82 53.27 63.27 52.25	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.368250          24.80         48.54         23.74         L1         OFF         19.5           0.368250         32.14          58.54         26.40         L1         OFF         19.5           0.525750          29.16         46.00         16.84         L1         OFF         19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500	(dBuV)  52.99  53.69  49.25  52.31  53.88  53.88  50.03  45.79	CAverage (dBuV) 35.17  33.60  31.96  34.48  37.51  30.71  32.17	Limit (dBuV) 55.88 65.88 65.63 65.63 55.17 65.17 65.17 54.52 64.52 53.82 63.82 53.27 63.27 63.27 63.27	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08 16.46	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.368250         32.14          58.54         26.40         L1         OFF         19.5           0.525750          29.16         46.00         16.84         L1         OFF         19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.179250 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500 0.235500	(dBuV)  52.99  53.69  49.25  52.31  52.31  53.88  50.03  45.79 	CAverage (dBuV) 35.17  33.60  31.96  34.48  33.7.51  30.71  32.17  32.17	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 54.52 64.52 53.82 63.82 53.27 63.27 63.27 52.25 62.25 49.68	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08 16.46 23.94	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
0.525750 29.16 46.00 16.84 L1 OFF 19.5		Frequency (MHz) 0.152250 0.152250 0.156750 0.156750 0.165750 0.165750 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500 0.321000	(dBuV)  52.99  53.69  49.25  52.31  53.88  50.03  45.79  34.53	CAverage (dBuV) 35.17  33.60  31.96  34.48  33.7.51  30.71  32.17  25.74	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 54.52 64.52 63.82 53.82 63.82 53.27 63.27 63.27 52.25 62.25 49.68	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08 16.46 23.94 25.15	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500 0.321000 0.321000 0.368250	(dBuV)  52.99  53.69  49.25  52.31  53.88  50.03  45.79  45.79  34.53 	CAverage (dBuV) 35.17  33.60  31.96  34.48  33.7.51  30.71  32.17  32.17  25.74 	Limit (dBuV) 55.88 65.83 55.63 65.63 55.17 65.17 54.52 64.52 53.82 63.82 53.27 63.27 52.25 62.25 49.68 59.68 48.54	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08 16.46 23.94 25.15 23.74	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
		Frequency (MHz) 0.152250 0.152250 0.156750 0.165750 0.165750 0.165750 0.179250 0.179250 0.195000 0.208500 0.208500 0.235500 0.235500 0.321000 0.321000 0.368250	(dBuV)  52.99  53.69  49.25  52.31  53.88  50.03  45.79  34.53  32.14	CAverage (dBuV) 35.17  33.60  31.96  34.48  33.7.51  30.71  32.17  25.74  24.80	Limit (dBuV) 55.88 65.88 55.63 65.63 55.17 65.17 65.17 54.52 64.52 53.82 63.82 53.27 63.27 63.27 52.25 62.25 49.68 59.68 48.54 58.54	Margin (dB) 20.71 12.89 22.03 11.94 23.21 15.92 20.04 12.21 16.31 9.94 22.56 13.24 20.08 16.46 23.94 25.15 23.74 26.40	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	OFF           OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5



						Tem	peratu	re :	24~26	°C
lest Engin	neer :	Jimmy (	Chang			Rela	tive Hu	umidity :	51~53	%
Fest Voltag	ge :	120Vac	/ 60Hz			Phas	se :		Neutra	al
		100 90 80 70 60 50 40 30 20 10 150k				CIS F	<u>R-Ave L</u>	mit at Ma m init at Ma in	Ρ	
				Fre	equency in	Hz				
Fina	l Resu	lt :								
Fina		lt: uency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.	
Fina	Freq		QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)	
Fina	Freq (M	uency		-		-	Line N	Filter OFF		
Fina	Freq (M	uency IHz)	(dBuV)	(dBuV)	(dBuV)	(dB)			(dB)	
Fina	Freq (M	uency IHz) 0.152250	(dBuV) 	(dBuV) 35.36	(dBuV) 55.88	(dB) 20.52 11.17 22.22	N	OFF	(dB) 19.5 19.5 19.5	
Fina	Freq (M	uency IHz) 0.152250 0.152250 0.156750 0.156750	(dBuV)  54.71	(dBuV) 35.36  33.41 	(dBuV) 55.88 65.88 55.63 65.63	(dB) 20.52 11.17 22.22 13.77	N N N N	OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5	
Fina	Freq (M	uency IHz) 0.152250 0.152250 0.156750 0.156750 0.163500	(dBuV)  54.71  51.86 	(dBuV) 35.36  33.41	(dBuV) 55.88 65.88 55.63 65.63 55.28	(dB) 20.52 11.17 22.22 13.77 22.43	N N N N N	OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M	uency IHz) 0.152250 0.152250 0.152250 0.156750 0.163500 0.163500	(dBuV)  54.71  51.86  50.59	(dBuV) 35.36  33.41  32.85 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28	(dB) 20.52 11.17 22.22 13.77 22.43 14.69	N N N N N N	OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.174750	(dBuV)  54.71  51.86  50.59 	(dBuV) 35.36  33.41  32.85  36.50	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 65.28 54.73	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23	N N N N N N	OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.156750 0.163500 0.163500 0.174750	(dBuV)  54.71  51.86  50.59  53.04	(dBuV) 35.36  33.41  32.85  36.50 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 65.28 54.73 64.73	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69	N N N N N N N	OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.156750 0.163500 0.163500 0.174750 0.174750 0.183750	(dBuV)  54.71  51.86  50.59  53.04 	(dBuV) 35.36  33.41  32.85  36.50  36.32	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 65.28 54.73 64.73 54.31	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99	N N N N N N N N	OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.15250 0.156750 0.163500 0.163500 0.174750 0.174750 0.183750 0.183750	(dBuV)  54.71  51.86  50.59  53.04  53.18	(dBuV) 35.36  33.41  32.85  36.50  36.32 	(dBuV) 55.88 65.88 55.63 65.63 65.28 65.28 65.28 54.73 64.73 54.31 64.31	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13	N N N N N N N N N N	OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.183750 0.183750 0.190500	(dBuV)  54.71  51.86  50.59  53.04  53.18 	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 54.73 64.73 54.31 64.31 54.02	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46	N N N N N N N N N N N	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.183750 0.183750 0.190500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 54.73 64.73 64.73 54.31 64.31 54.02 64.02	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42	N N N N N N N N N N N N N	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.183750 0.183750 0.190500 0.190500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60 	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 65.28 64.73 64.73 64.73 54.31 64.31 54.02 64.02 53.63	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92	N N N N N N N N N N N N N N	OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.15250 0.156750 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.183750 0.183750 0.190500 0.199500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.18  53.60  53.60	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 64.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51	N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.15250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.183750 0.183750 0.190500 0.190500 0.199500 0.199500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.18  53.60  53.60	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71  31.30	(dBuV) 55.88 65.88 55.63 65.63 65.28 65.28 54.73 64.73 64.73 54.31 54.02 64.02 53.63 63.63 53.27	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97	N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.183750 0.183750 0.190500 0.190500 0.199500 0.208500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60  52.12  48.93	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.32  36.56  32.71  31.30	(dBuV) 55.88 65.88 55.63 65.28 65.28 54.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34	N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.183750 0.183750 0.190500 0.190500 0.199500 0.208500 0.208500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60  52.12  48.93 	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71  31.30  27.95	(dBuV) 55.88 65.88 55.63 65.28 65.28 54.73 64.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 51.87	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92	N N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.152250 0.156750 0.163500 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.183750 0.190500 0.190500 0.199500 0.208500 0.208500 0.246750	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60  53.60  52.12  48.93  42.73	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71  31.30  27.95 	(dBuV) 55.88 65.88 55.63 65.28 65.28 65.28 54.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 51.87 61.87	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92 19.14	N N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IH2) 0.152250 0.152250 0.156750 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.174750 0.183750 0.190500 0.190500 0.199500 0.199500 0.208500 0.246750 0.246750	(dBuV)  54.71  51.86  50.59  53.04  53.04  53.18  53.60  52.12  48.93  42.73 	(dBuV) 35.36  33.41  32.85  36.50  36.50  36.52  36.56  32.71  31.30  27.95  25.44	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 64.73 64.73 64.73 64.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 63.27 51.87 61.87 50.04	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92 19.14 24.60	N N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IH2) 0.152250 0.156750 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.174750 0.174750 0.199500 0.199500 0.199500 0.199500 0.208500 0.226750 0.246750 0.307500	(dBuV)  54.71  51.86  50.59  53.04  53.18  53.60  53.60  52.12  48.93  42.73	(dBuV) 35.36  33.41  32.85  36.50  36.50  36.50  36.52  31.30  27.95  25.44 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 64.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 63.27 51.87 61.87 50.04 60.04	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92 19.14 24.60 25.14	N N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IHz) 0.152250 0.15250 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.183750 0.190500 0.190500 0.199500 0.208500 0.208500 0.2246750 0.307500 0.307500	(dBuV)  54.71  51.86  50.59  53.04  53.04  53.04  53.18  53.18  53.60  52.12  48.93  48.93  42.73  34.90 	(dBuV) 35.36  33.41  32.85  36.50  36.32  36.56  32.71  31.30  27.95  25.44  22.44	(dBuV) 55.88 65.88 55.63 65.28 65.28 54.73 64.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 51.87 61.87 50.04 60.04 48.49	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92 19.14 24.60 25.14 23.77	N N N N N N N N N N N N N N N N N N N	OFF           OFF <td>(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5</td> <td></td>	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
Fina	Freq (M () () () () () () () () () () () () ()	uency IH2) 0.152250 0.156750 0.156750 0.163500 0.163500 0.163500 0.174750 0.174750 0.174750 0.174750 0.174750 0.174750 0.199500 0.199500 0.199500 0.199500 0.208500 0.226750 0.246750 0.307500	(dBuV)  54.71  51.86  50.59  53.04  53.04  53.18  53.60  52.12  48.93  42.73 	(dBuV) 35.36  33.41  32.85  36.50  36.50  36.50  36.52  31.30  27.95  25.44 	(dBuV) 55.88 65.88 55.63 65.63 55.28 65.28 64.73 64.73 54.31 64.31 54.02 64.02 53.63 63.63 53.27 63.27 63.27 51.87 61.87 50.04 60.04	(dB) 20.52 11.17 22.22 13.77 22.43 14.69 18.23 11.69 17.99 11.13 17.46 10.42 20.92 11.51 21.97 14.34 23.92 19.14 24.60 25.14	N N N N N N N N N N N N N N N N N N N	OFF	(dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	



# **Appendix B. Radiated Emission Test Result**

Toot Engineer	Daniel Lee and Lewis He			Temp	Temperature :			20~23°C 50~53%			
Test Engineer :				Relative Humidity : Polarization :			50~5				
Test Distance :	3m						Horizontal				
Remark :	#7 is system simulator signal whi					which can be ignored.					
Level	l (dBuV/m)									Date: 201	8-10-10
97											
84.9											
										FCC CI	ASS-B
72.8										ruu u	LA33-D
	7										
60.6									FC	C CLASS-	B (AVG)
48.5									12	13	
		8		9		10		11   	ï	Ĭ	
36.4 8 J											
ľĩ											
24.3											
12.1											
12.1 0 <sub>30</sub>	1000.	30	000.	5000		7000.		9000.	110	000.	13000
030				5000		7000. ncy (MHz)		9000.	110	000.	13000
	:	03CH10	-Н <b>У</b>	5000 m HORN	Freque	ncy (MHz)			110	000.	13000
0 <sub>30</sub> Site	:	03CH10	-НУ 455-В 3		Freque	ncy (MHz)			110	000.	13000
0 <sub>30</sub> Site Conditior	: 1 : :	03CH10 FCC CL4	-НУ 455-в 3 -02		Freque	ncy (MHz)			110	000.	13000
0 <sub>30</sub> Site Condition Project	: 1 : :	03CH10 FCC CL/ 890804 From Sy	1-HY 455-B 31 -02 vstem		Freque	ncy (MHz)			110	000.	13000
0 <sub>30</sub> Site Conditior Project	: 1 : :	03CH10 FCC CLA 890804	I-HY 155-B 31 -02 vstem IB	m HORN Limit	Freque 9120D- Read/	ncy (MHz) HF HOR	IZONT Cable	AL Preamp			13000
0 <sub>30</sub> Site Condition Project	: 1 : : :	03CH10 FCC CL/ 890804 From Sy	I-HY ASS-B 3 -02 vstem IB Over	m HORN Limit	Freque 9120D- Read/	ncy (MHz) HF HOR	IZONT Cable	AL Preamp			13000 Remark
0 <sub>30</sub> Site Condition Project	: 1 : : Freq	03CH10 FCC CLA 890804 From Sy SD to N	I-HY ASS-B3 -02 vstem IB Over Limit	m HORN Limit	Freque 9120D- Read/	ncy (MHz) HF HOR	IZONT Cable	AL Preamp			
0 <sub>30</sub> Site Conditior Project	: 1 : : Freq	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m	I-HY ASS-B 3 -O2 /stem B Over Limit dB	m HORN Limit Line	Freque 9120D- Read/ Leve1 dBuV	ncy (MHz) HF HOR Antenna Factor dB/m	Cable Loss	AL Preamp Factor	A/Pos	T/Pos deg	
030 Site Condition Project Power	: : : : Freq MHz 84.27 101.01	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m 36.74 32.81	-HY 455-B 3 -O2 /stem B Over Limit -3.26 -10.69	m HORN Limit Line dBuV/m 40.00 43.50	Freque 9120D- Read/ Leve1 dBuV 54.35 48.18	NCY (MHZ) HF HOR Antenna Factor dB/m 13.88 16.05	Cable Loss dB 1.00 1.05	AL Preamp Factor dB 32.73 32.71	A/Pos 	T/Pos deg 0 	Remark Peak Peak
030 Site Condition Project Power	: : : : Freq MHz 84.27 101.01 137.19	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90	m HORN Limit Line dBuV/m 40.00 43.50 43.50	Freque 9120D- Read/ Leve1 dBuV 54.35 48.18 45.25	Antenna Factor 13.88 16.05 17.47	Cable Loss dB 1.00 1.24	AL Preamp Factor dB 32.73 32.71 32.68	A/Pos cm 100 	T/Pos 	Remark Peak Peak Peak Peak
030 Site Condition Project Power	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24	m HORN Limit Line dBuV/m 40.00 43.50 43.50 46.00	Freque 9120D- Read/ Leve1 dBuV 54.35 48.18	Antenna Factor 13.88 16.05 17.47 20.19	Cable Loss dB 1.00 1.05 1.24 1.97	AL Preamp Factor dB 32.73 32.71 32.68 32.59	A/Pos 	T/Pos deg 0 	Remark Peak Peak Peak Peak Peak
030 Site Condition Project Power	: : : : Freq MHz 84.27 101.01 137.19	03CH10 FCC CL4 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24	m HORN Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Freque 9120D- Read/ Leve1 dBuV 54.35 48.18 45.25 41.78	Antenna Factor 13.88 16.05 17.47 20.19 21.36	Cable Loss dB 1.00 1.24	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60	A/Pos cm 100 	T/Pos 	Remark Peak Peak Peak Peak
030 Site Condition Project Power 1 2 3 4 5 6 7 *	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL4 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75 36.43 62.85	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24 -13.25 -9.57	m HORN Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Freque 9120D- Read/ Level dBuV 54.35 48.18 45.25 41.78 41.52 43.38 62.10	Antenna Factor 13.88 16.05 17.47 20.19 21.36 22.98 29.09	Cable Loss dB 1.00 1.05 1.24 1.97 2.06 2.24 3.16	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60 32.62 32.62 32.19	A/Pos cm 100  	T/Pos deg 0  	Remark Peak Peak Peak Peak Peak Peak
030 Site Condition Project Power 1 2 3 4 5 6 7 * 8 2	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL4 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75 36.43 62.85 40.46	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24 -13.25 -9.57 -33.54	m HORN Limit Line dBuV/m 40.00 43.50 43.50 43.50 46.00 46.00 74.00	Freque 9120D- Read/ Level dBuV 54.35 48.18 45.25 41.78 41.52 43.38 62.10 69.98	Antenna Factor 13.88 16.05 17.47 20.19 21.36 22.98 29.09 27.16	Cable Loss dB 1.00 1.05 1.24 1.97 2.06 2.24 3.16 5.05	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60 32.62 32.62 32.19 61.73	A/Pos cm 100    	T/Pos deg 0    	Remark Peak Peak Peak Peak Peak Peak Peak Pea
030 Site Condition Project Power 1 2 3 4 5 6 7 * 8 2 9 4	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL4 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75 36.43 62.85 40.46 40.46	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24 -13.25 -9.57 -33.54 -33.54	m HORN Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00 46.00 74.00 74.00	Freque 9120D- Read/ Level dBuV 54.35 48.18 45.25 41.78 41.52 43.38 62.10 69.98 63.37	Antenna Factor dB/m 13.88 16.05 17.47 20.19 21.36 22.98 29.09 27.16 31.01	Cable Loss dB 1.00 1.05 1.24 1.97 2.06 2.24 3.16 5.05 8.38	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60 32.62 32.62 32.19 61.73 62.30	A/Pos cm 100    	T/Pos deg 0    	Remark Peak Peak Peak Peak Peak Peak Peak Pea
0 30 Site Condition Project Power 1 2 3 4 5 6 7 * 8 2 9 4 10 6	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75 36.43 62.85 40.46 40.46 42.11	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24 -13.25 -9.57 -33.54 -33.54 -33.54	m HORN Limit Line dBuV/m 40.00 43.50 43.50 43.50 46.00 46.00 74.00 74.00 74.00 74.00	Freque 9120D- Read/ Level dBuV 54.35 48.18 45.25 41.78 41.52 43.38 62.10 69.98 63.37 61.71	Antenna Factor dB/m 13.88 16.05 17.47 20.19 21.36 22.98 29.09 27.16 31.01 33.87	Cable Loss dB 1.00 1.05 1.24 1.97 2.06 2.24 3.16 5.05 8.38 9.52	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60 32.62 32.62 32.19 61.73 62.30 62.99	A/Pos cm 100    	T/Pos deg 0     	Remark Peak Peak Peak Peak Peak Peak Peak Pea
030 Site Condition Project Power 1 2 3 4 5 6 7 * 8 2 9 4 10 6 11 8	: : : : : : : : : : : : : : : : : : :	03CH10 FCC CL/ 890804 From Sy SD to N Level dBuV/m 36.74 32.81 31.60 31.76 32.75 36.43 62.85 40.46 40.46 42.11 44.13	-HY ASS-B 3 -O2 /stem B Over Limit -3.26 -10.69 -11.90 -14.24 -13.25 -9.57 -33.54 -33.54	m HORN Limit Line dBuV/m 40.00 43.50 43.50 43.50 46.00 46.00 74.00 74.00 74.00 74.00 74.00	Freque 9120D- Read/ Level dBuV 54.35 48.18 45.25 41.78 41.52 43.38 62.10 69.98 63.37 61.71 60.20	Antenna Factor dB/m 13.88 16.05 17.47 20.19 21.36 22.98 29.09 27.16 31.01 33.87	Cable Loss dB 1.00 1.05 1.24 1.97 2.06 2.24 3.16 5.05 8.38 9.52 10.72	AL Preamp Factor dB 32.73 32.71 32.68 32.59 32.60 32.62 32.62 32.19 61.73 62.30 62.99	A/Pos cm 100    	T/Pos deg 0       	Remark Peak Peak Peak Peak Peak Peak Peak Pea



