FCC EMI TEST REPORT

FCC ID	:	**APYHRO00287**
Equipment	:	**Smart phone**
Brand Name	:	**SHARP**
Applicant	:	**SHARP CORPORATION** **2-13-1, HACHIHONMATSU-IIDA, HIGASHI-HIROSHIMA-SHI, HIROSHIMA PREFECTURE 739-0192, JAPAN**
Manufacturer	:	**SHARP CORPORATION** **1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka 590-8522, Japan**
Standard	:	**FCC 47 CFR FCC Part 15 Subpart B Class B**

The product was received on Jun. 18, 2020 and testing was started from Jun. 29, 2020 and completed on Jul. 10, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FC031906-01	01	Initial issue of report	Jul. 28, 2020

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 11.14 dB at 0.168 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 0.35 dB at 480.080 MHz for Quasi-Peak

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Dara Chiu

Report Producer: Amy Chen

1. General Description

1.1. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GNSS

Product Specification subjective to this standard	
Sample 1	Main Source
Sample 2	Second Source,128GB
Sample 3	Second source, 64GB
Antenna Type	WWAN <Ant. 1>: PIFA / LDS Antenna <Ant. 2>: PIFA / LDS Antenna <Ant. 3>: Monopole Antenna WLAN <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo: PIFA Antenna NFC: Loop Antenna FM: Using Earphone as Antenna

1.2. Modification of EUT

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

1.3. Test Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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. EMC & Wireless Communications Laboratory
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
Test Site No.	**Sporton Site No.**
	03CH10-HY

FCC designation No.: TW1093 and TW1098

1.4. 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 Class 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
AC Conducted Emission	Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 3: LTE Band 5 Idle Bluetooth Idle + WLAN (2.4GHz) Idle + FM + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 4: LTE Band 12 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 5: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook) + SD Card for Sample 1 Mode 6: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook) + SD Card for Sample 2

Test Items	Function Type
Radiated Emissions	Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 3: LTE Band 5 Idle Bluetooth Idle + WLAN (2.4GHz) Idle + FM + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 4: LTE Band 12 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) + SD Card for Sample 1 Mode 5: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook) + SD Card for Sample 1 Mode 6: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook) + SD Card for Sample 2 Mode 7: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook) + SD Card for Sample 3

Remark:

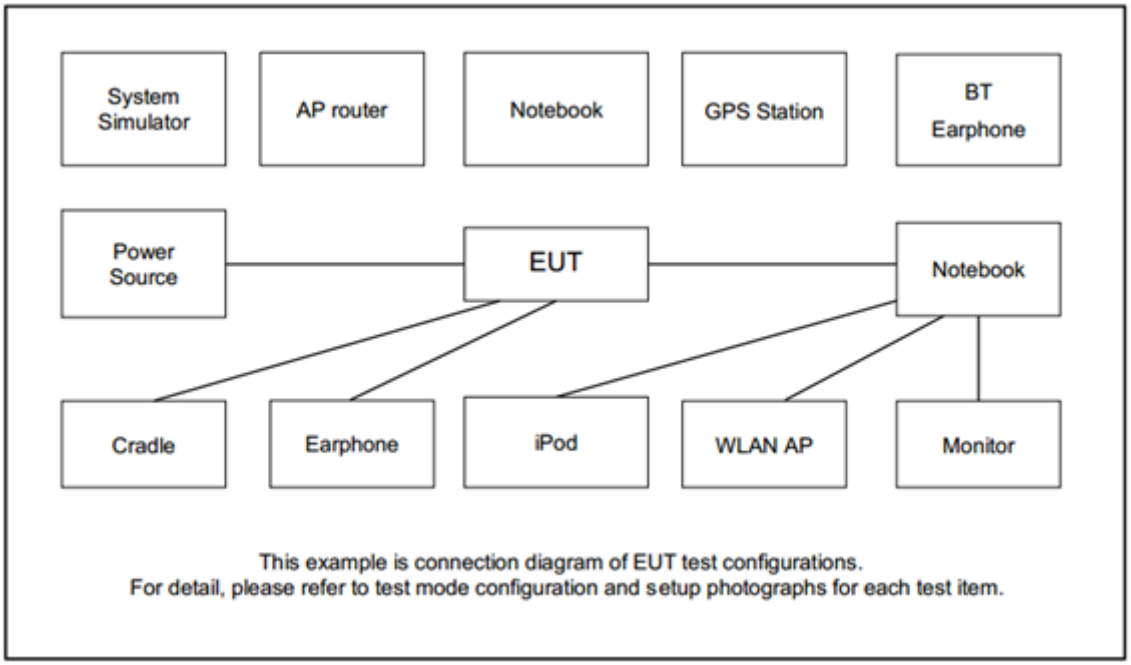
1. The worst case of AC is mode 5; only the test data of this mode was reported.

2. The worst case of RE is mode 6; only the test data of this mode was reported.

3. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (GSM850/WCDMA Band V/LTE Band 5/12/17); only the worst case for cellular band test data of this mode was reported.

4. 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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Pioneer	SE-C7BTSE	N/A	N/A	N/A
5.	Adapter	DVE	DSA-10PF06-05 FUS 050200	N/A	N/A	N/A
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
7.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
8.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
9.	Earphone	Lenovo	SH100	FCC DoC	N/A	N/A
10.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
11.	Notebook	Dell	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
12.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
13.	USB Cable	JCTC	JCT024-F014	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE 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 “GPS Test” to make the EUT receive continuous signals from GPS station.
3. Execute “Video Player” to play MPEG4 files.
4. Turn on camera to capture images.
5. Execute “FM” to receive FM signal continuously.

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>

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.

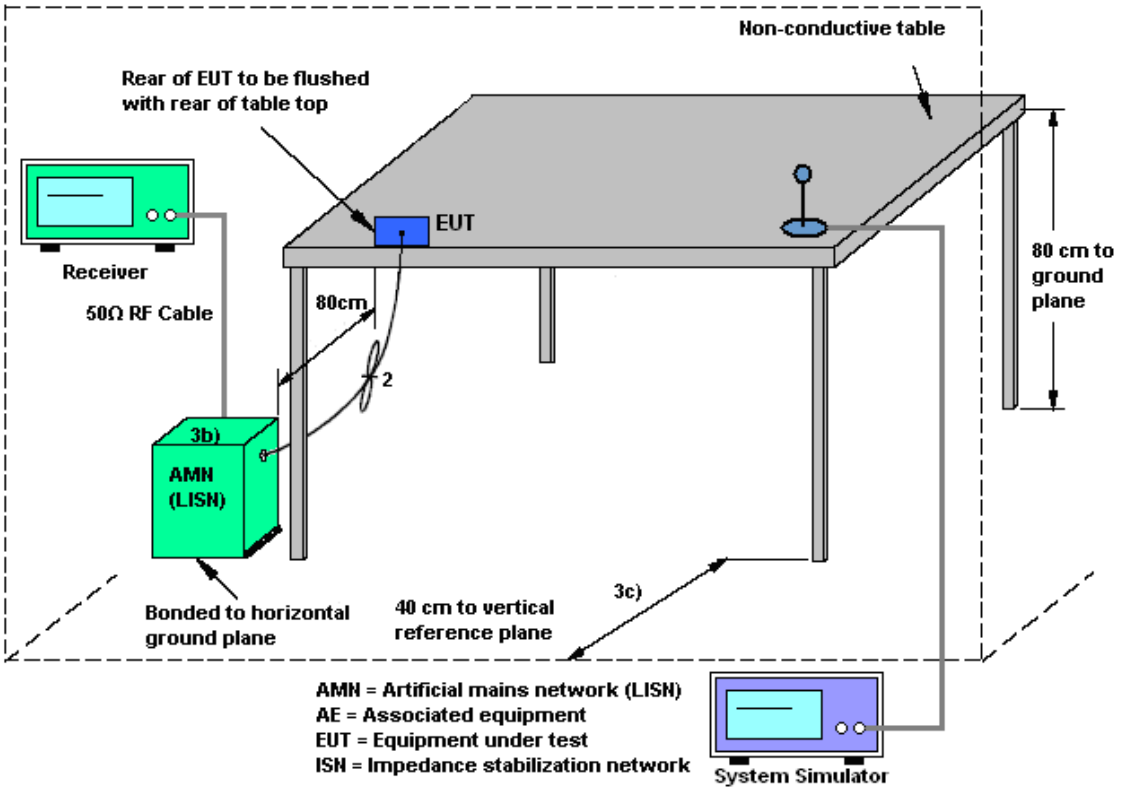
3.1.2. Measuring Instruments

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.
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

Please refer to Appendix A.

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>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

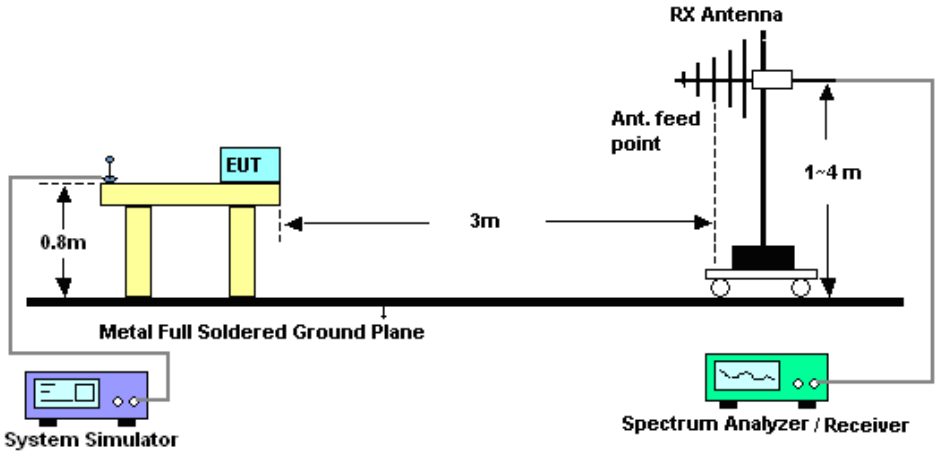
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

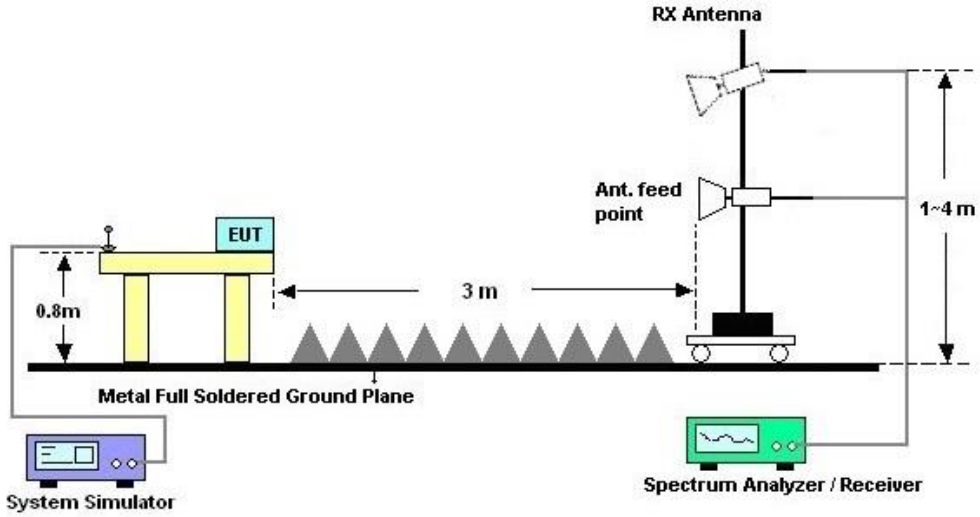
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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.
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

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	Jul. 03, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jul. 03, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Jul. 03, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Jul. 03, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jul. 03, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 03, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jul. 03, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jul. 03, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 22, 2019	Jun. 29, 2020~ Jul. 10, 2020	Oct. 21, 2020	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35413 & 02	30MHz~1GHz	Feb. 11, 2020	Jun. 29, 2020~ Jul. 10, 2020	Feb. 10, 2021	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz~18GHz	Oct. 09, 2019	Jun. 29, 2020~ Jul. 10, 2020	Oct. 08, 2020	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Mar. 02, 2020	Jun. 29, 2020~ Jul. 10, 2020	Mar. 01, 2021	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Jun. 29, 2020~ Jul. 10, 2020	Feb. 09, 2021	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 29, 2020~ Jul. 10, 2020	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 29, 2020~ Jul. 10, 2020	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jun. 29, 2020~ Jul. 10, 2020	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 29, 2020~ Jul. 10, 2020	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 18, 2020	Jun. 29, 2020~ Jul. 10, 2020	Jan. 17, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 07, 2019	Jun. 29, 2020~ Jul. 10, 2020	Nov. 06, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 07, 2019	Jun. 29, 2020~ Jul. 10, 2020	Nov. 06, 2020	Radiation (03CH10-HY)

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))	**2.3**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3**

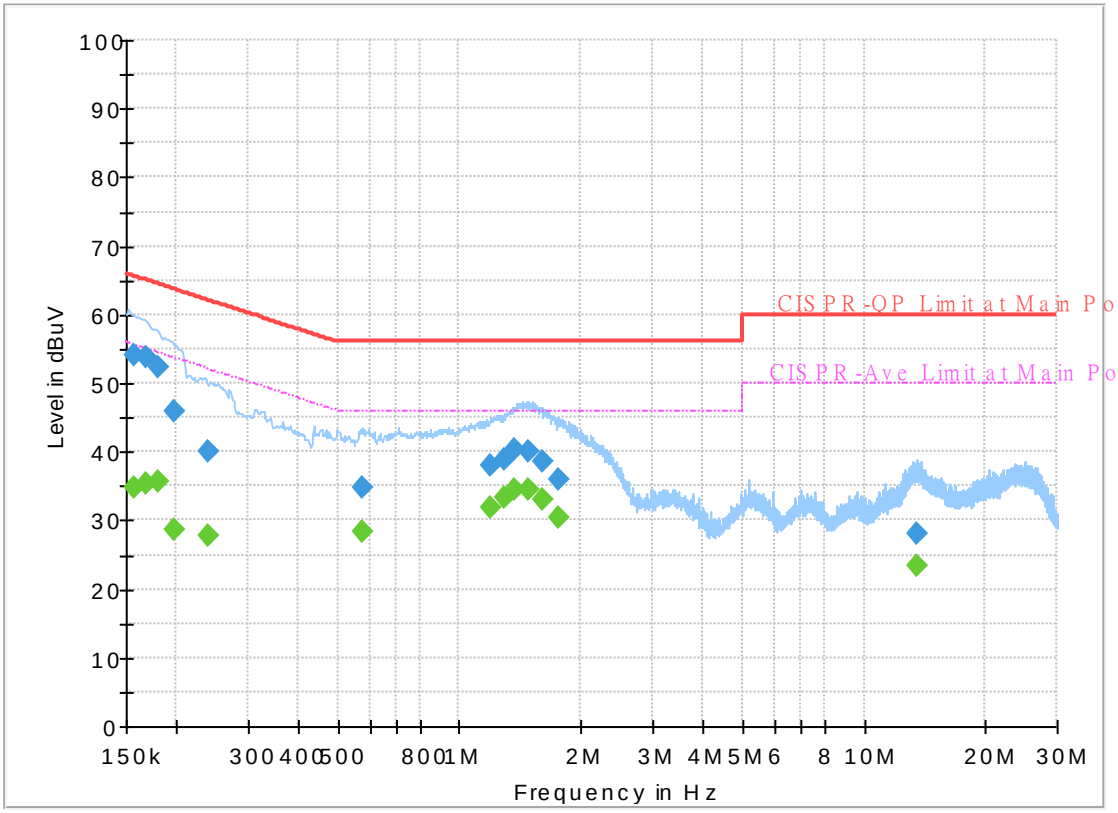
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~25℃
		Relative Humidity :	42~50%

EUT Information

Report NO :	031906-01
Test Mode :	Mode 5
Test Voltage :	Power From System
Phase :	Line

Full Spectrum



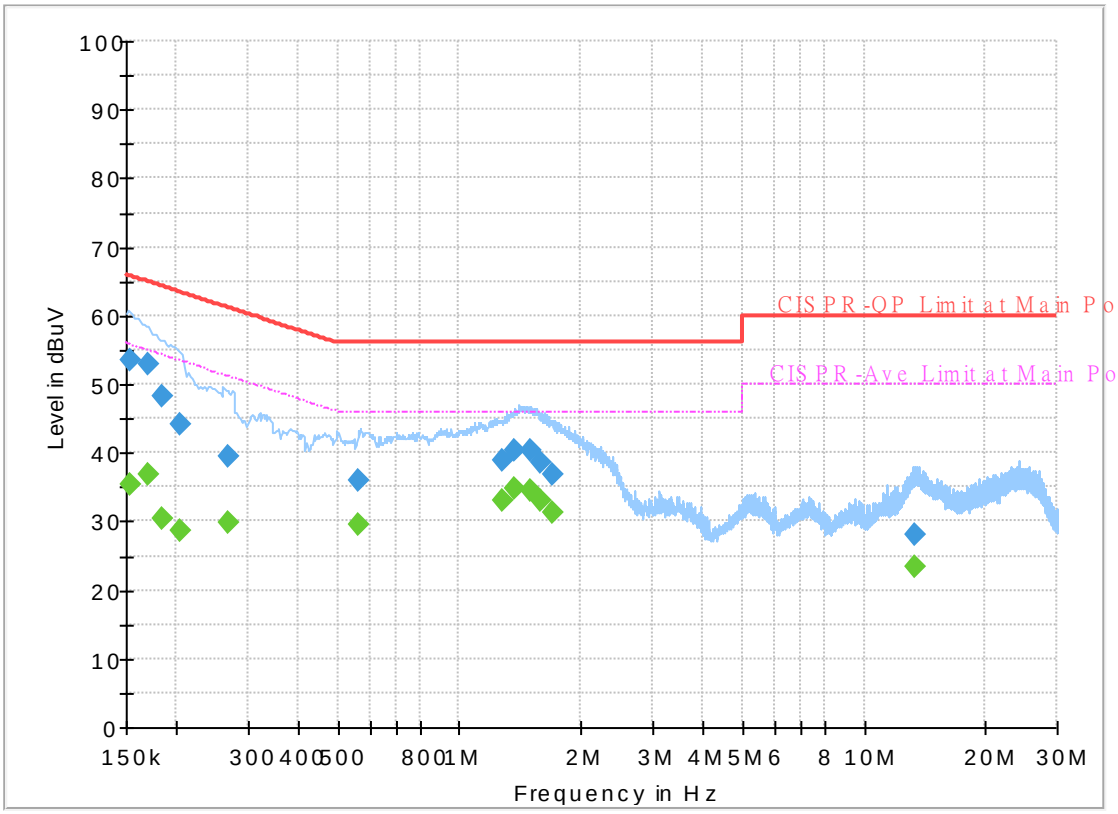
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	34.66	55.63	20.97	L1	OFF	19.5
0.156750	54.15	---	65.63	11.48	L1	OFF	19.5
0.168000	---	35.45	55.06	19.61	L1	OFF	19.5
0.168000	53.92	---	65.06	11.14	L1	OFF	19.5
0.180510	---	35.53	54.46	18.93	L1	OFF	19.5
0.180510	52.42	---	64.46	12.04	L1	OFF	19.5
0.197250	---	28.70	53.73	25.03	L1	OFF	19.5
0.197250	45.89	---	63.73	17.84	L1	OFF	19.5
0.240000	---	27.89	52.10	24.21	L1	OFF	19.5
0.240000	39.99	---	62.10	22.11	L1	OFF	19.5
0.577590	---	28.41	46.00	17.59	L1	OFF	19.5
0.577590	34.80	---	56.00	21.20	L1	OFF	19.5
1.196340	---	31.99	46.00	14.01	L1	OFF	19.6
1.196340	38.01	---	56.00	17.99	L1	OFF	19.6
1.297500	---	33.35	46.00	12.65	L1	OFF	19.6
1.297500	38.99	---	56.00	17.01	L1	OFF	19.6
1.360770	---	34.52	46.00	11.48	L1	OFF	19.6
1.360770	40.22	---	56.00	15.78	L1	OFF	19.6
1.482000	---	34.55	46.00	11.45	L1	OFF	19.6
1.482000	40.13	---	56.00	15.87	L1	OFF	19.6
1.596750	---	32.91	46.00	13.09	L1	OFF	19.6
1.596750	38.55	---	56.00	17.45	L1	OFF	19.6
1.758750	---	30.32	46.00	15.68	L1	OFF	19.6
1.758750	35.96	---	56.00	20.04	L1	OFF	19.6
13.558380	---	23.49	50.00	26.51	L1	OFF	19.8
13.558380	28.09	---	60.00	31.91	L1	OFF	19.8

EUT Information

Report NO :	031906-01
Test Mode :	Mode 5
Test Voltage :	Power From System
Phase :	Neutral

Full Spectrum

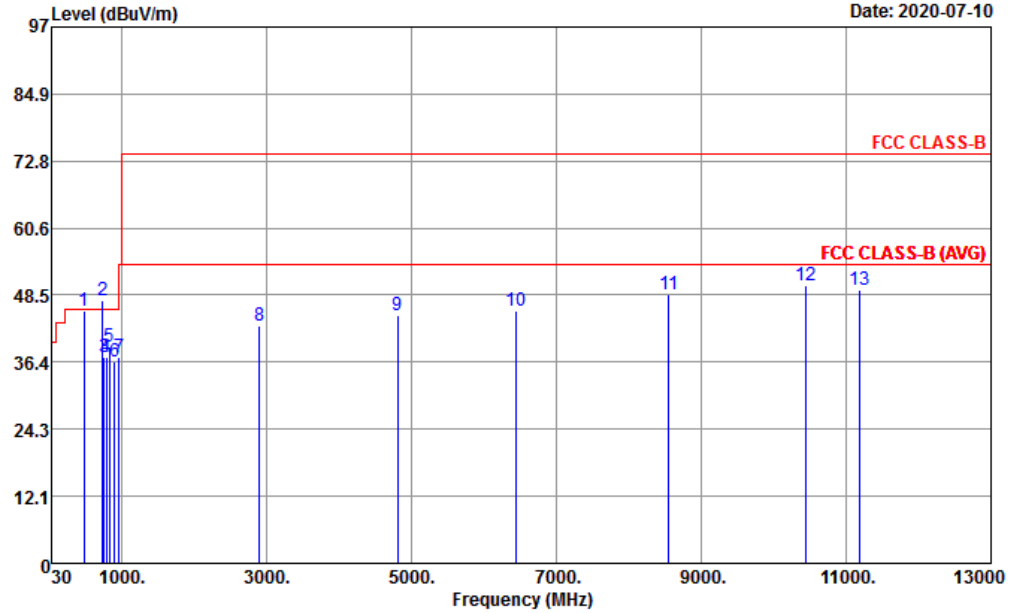


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153578	---	35.26	55.80	20.54	N	OFF	19.5
0.153578	53.64	---	65.80	12.16	N	OFF	19.5
0.170250	---	36.96	54.95	17.99	N	OFF	19.5
0.170250	52.95	---	64.95	12.00	N	OFF	19.5
0.183750	---	30.44	54.31	23.87	N	OFF	19.5
0.183750	48.38	---	64.31	15.93	N	OFF	19.5
0.204000	---	28.66	53.45	24.79	N	OFF	19.5
0.204000	44.08	---	63.45	19.37	N	OFF	19.5
0.269250	---	29.80	51.14	21.34	N	OFF	19.5
0.269250	39.59	---	61.14	21.55	N	OFF	19.5
0.561750	---	29.50	46.00	16.50	N	OFF	19.5
0.561750	35.99	---	56.00	20.01	N	OFF	19.5
1.281750	---	33.10	46.00	12.90	N	OFF	19.6
1.281750	38.77	---	56.00	17.23	N	OFF	19.6
1.371390	---	34.72	46.00	11.28	N	OFF	19.6
1.371390	40.43	---	56.00	15.57	N	OFF	19.6
1.493250	---	34.58	46.00	11.42	N	OFF	19.6
1.493250	40.23	---	56.00	15.77	N	OFF	19.6
1.590000	---	33.12	46.00	12.88	N	OFF	19.6
1.590000	38.61	---	56.00	17.39	N	OFF	19.6
1.707000	---	31.23	46.00	14.77	N	OFF	19.6
1.707000	36.79	---	56.00	19.21	N	OFF	19.6
13.364250	---	23.32	50.00	26.68	N	OFF	19.9
13.364250	28.11	---	60.00	31.89	N	OFF	19.9

Appendix B. Radiated Emission Test Result

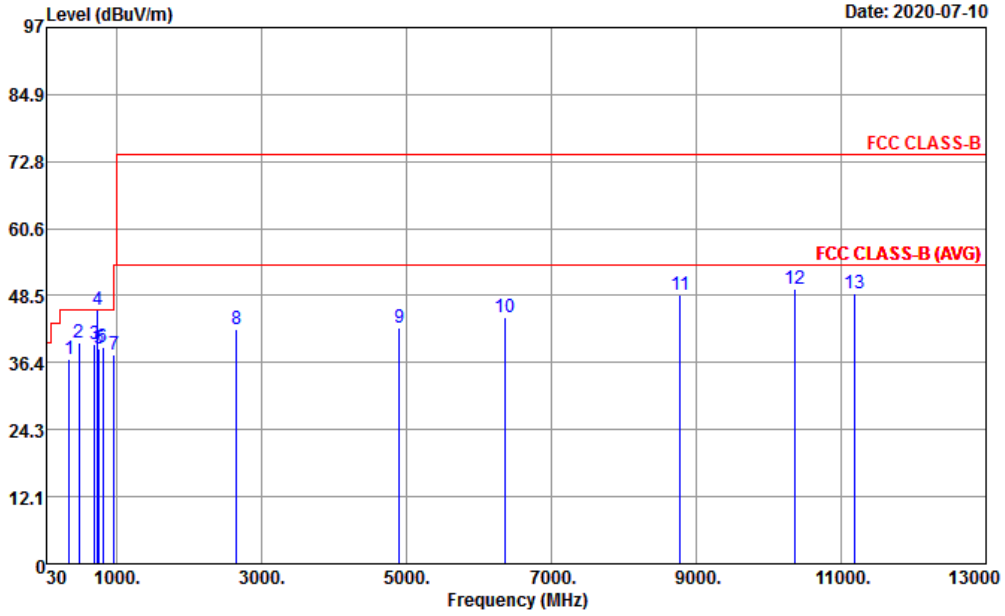
Test Engineer :	Yu Wang	**Temperature :**	21~23°C
		Relative Humidity :	61~64%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#2 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL
Project : 031906-01
Power : From System
Mode : 6
: eMMC to NB

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		480.08	45.65	-0.35	46.00	23.71	51.93	2.40	32.39	100	179	QP
2	*	740.00			46.00	27.91	48.89	3.00	32.32	---	---	Peak
3		758.47	37.16	-8.84	46.00	28.02	38.38	3.04	32.28	---	---	Peak
4		790.48	37.42	-8.58	46.00	28.06	38.47	3.12	32.23	---	---	Peak
5		831.22	39.10	-6.90	46.00	28.33	39.56	3.21	32.00	---	---	Peak
6		897.18	36.57	-9.43	46.00	28.88	35.91	3.34	31.56	---	---	Peak
7		960.00	37.40	-8.60	46.00	30.54	34.27	3.47	30.88	---	---	Peak
8		2906.00	43.02	-30.98	74.00	28.49	66.04	6.53	58.04	---	---	Peak
9		4812.00	44.82	-29.18	74.00	31.20	63.63	8.48	58.49	---	---	Peak
10		6438.00	45.72	-28.28	74.00	33.93	61.36	9.94	59.51	---	---	Peak
11		8556.00	48.51	-25.49	74.00	37.22	59.99	11.48	60.18	---	---	Peak
12		10434.00	50.18	-23.82	74.00	39.77	58.04	12.44	60.07	100	0	Peak
13		11184.00	49.50	-24.50	74.00	39.55	55.95	12.94	58.94	---	---	Peak

Test Engineer :	Yu Wang	**Temperature :**	21~23°C
		Relative Humidity :	61~64%
Test Distance :	3m	**Polarization :**	Vertical
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL
Project : 031906-01
Power : From System
Mode : 6
: eMMC to NB

	Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	345.25	36.92	-9.08	46.00	20.22	46.90	2.02	32.22	---	---	Peak
2	480.08	39.94	-6.06	46.00	23.71	46.22	2.40	32.39	100	0	Peak
3	692.51	39.84	-6.16	46.00	26.54	42.78	2.92	32.40	---	---	Peak
4	740.00	-----	-----	46.00	27.91	47.26	3.00	32.32	---	---	Peak
5	758.47	38.91	-7.09	46.00	28.02	40.13	3.04	32.28	---	---	Peak
6	806.97	39.09	-6.91	46.00	27.76	40.33	3.16	32.16	---	---	Peak
7	960.00	37.86	-8.14	46.00	30.54	34.73	3.47	30.88	---	---	Peak
8	2658.00	42.34	-31.66	74.00	27.72	66.22	6.27	57.87	---	---	Peak
9	4898.00	42.67	-31.33	74.00	31.20	61.36	8.60	58.49	---	---	Peak
10	6356.00	44.68	-29.32	74.00	33.52	60.61	9.95	59.40	---	---	Peak
11	8774.00	48.61	-25.39	74.00	37.84	59.65	11.65	60.53	---	---	Peak
12	10366.00	49.63	-24.37	74.00	39.63	57.71	12.40	60.11	100	0	Peak
13	11188.00	49.02	-24.98	74.00	39.54	55.47	12.95	58.94	---	---	Peak