FCC EMI TEST REPORT

FCC ID	:	**NM82Q6M200**
Equipment	:	**Controller**
Model Name	:	**2Q6M200**
Applicant	:	**HTC Corporation** **No. 88, Sec. 3, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)**
Manufacturer	:	**HTC Corporation** **No. 23, Xinghua Rd., Taoyuan District, Taoyuan City, Taiwan 330**
Standard	:	**FCC 47 CFR FCC Part 15 Subpart B**

The product was received on Jan. 22, 2019 and testing was started from Feb. 20, 2019 and completed on Feb. 21, 2019. 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 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.

Jones Tsai

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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History of this test report

Report No.	Version	Description	Issued Date
FC912262	01	Initial issue of report	Mar. 29, 2019
FC912262	02	Add the FCC ID on the cover page	Apr. 01, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.107	AC Conducted Emission	Not Required	-
3.1	15.109	Radiated Emission	Pass	Under limit 3.04 dB at 40.260 MHz for peak
Note: Not required means after assessing, test items are not necessary to carry out.				

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: Louis Wu

Report Producer: Maggie Chiang

1. General Description

1.1. Product Feature of Equipment Under Test

2.4GHz Proprietary Radio

Product Specification subjective to this standard	
Antenna Type	2.4GHz Proprietary Radio: PCB 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.
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. 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
- 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

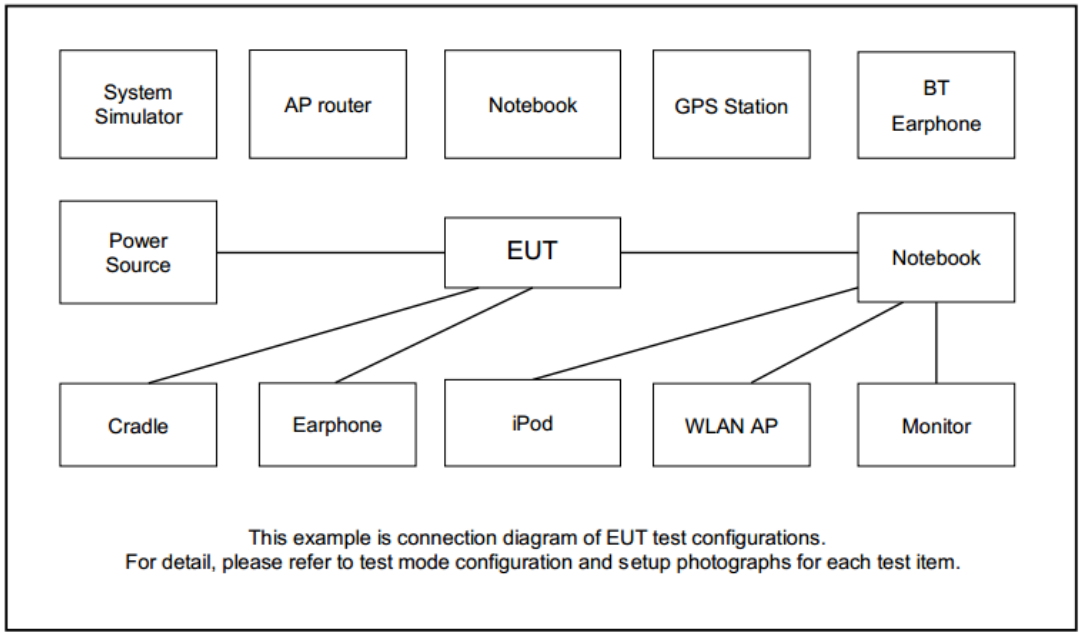
2.1. Test Mode

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

Test Items	Function Type
Radiated Emissions	Mode 1: WLAN (2.4GHz) Idle + Bluetooth Idle + MPEG4 (Color Bar) + Speaker + EUT Power on (2.4GHz RF Link) + USB Cable (Charging from Adapter)

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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
3.	Mobile Phone	ASUS	X00QD	FCC DoC	N/A	N/A
4.	Headset	hTC	2Q6P100	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The VIVE Headset was attached to the WLAN AP, and the following programs installed in the VIVE Headset were programmed during the test.

EUT connected to the headset via “2.4GHz Proprietary Radio” function. The headset as the accessory turned on the WLAN and Bluetooth functions, and simultaneously executed Video player to play MPEG4.

3. Test Result

3.1. Test of Radiated Emission Measurement

3.1.1. 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)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2. Measuring Instruments

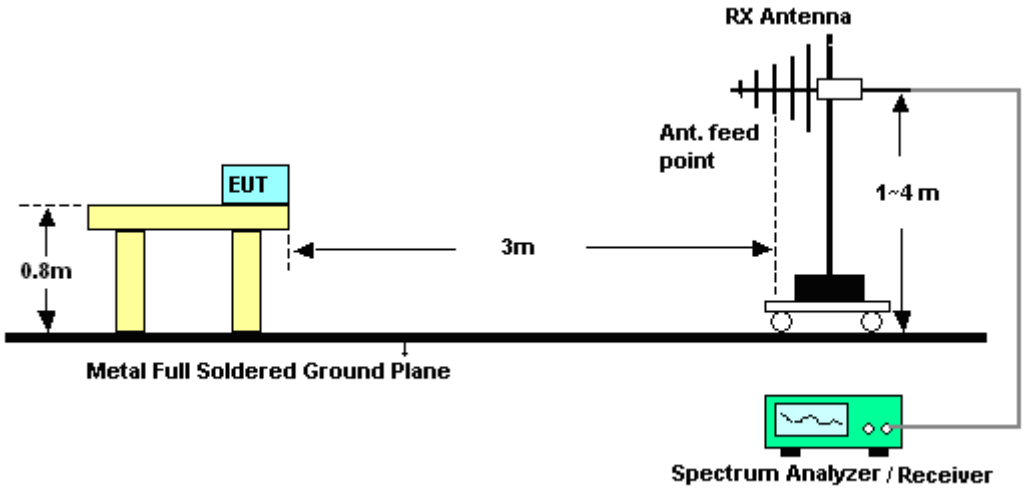
Refer a test equipment and calibration data table in this test report.

3.1.3. Test Procedures

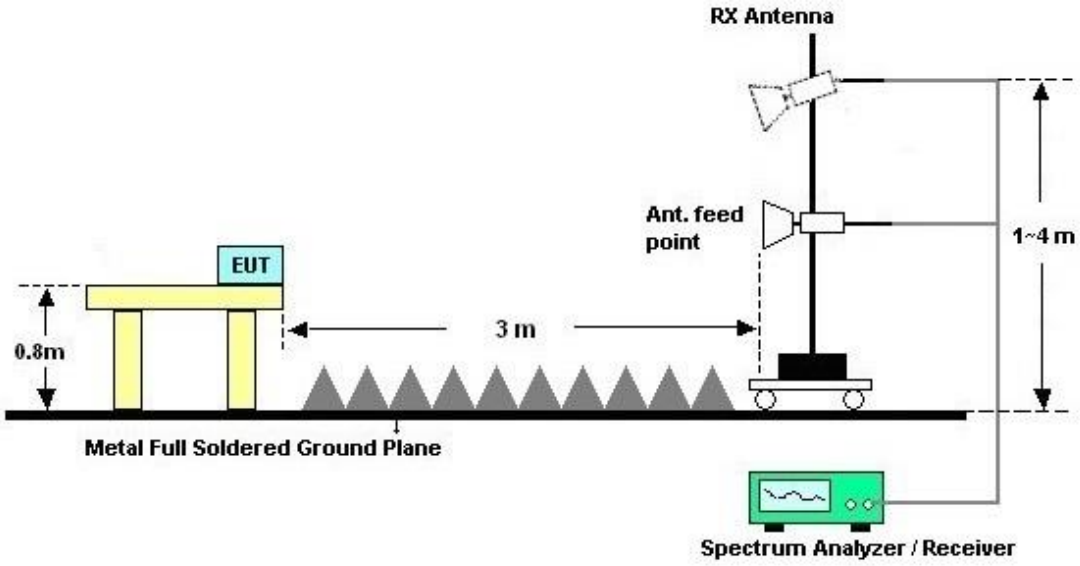
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

3.1.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5. Test Result of Radiated Emission

Please refer to Appendix A.

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Feb. 20, 2019~ Feb. 21, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Feb. 20, 2019~ Feb. 21, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Feb. 20, 2019~ Feb. 21, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Apr. 17, 2018	Feb. 20, 2019~ Feb. 21, 2019	Apr. 16, 2019	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Nov. 02, 2018	Feb. 20, 2019~ Feb. 21, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 20, 2019~ Feb. 21, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Feb. 20, 2019~ Feb. 21, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Feb. 20, 2019~ Feb. 21, 2019	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Feb. 20, 2019~ Feb. 21, 2019	Oct. 31, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30M-1G	Nov. 08, 2018	Feb. 20, 2019~ Feb. 21, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1G-18G	Nov. 08, 2018	Feb. 20, 2019~ Feb. 21, 2019	Nov. 07, 2019	Radiation (03CH10-HY)

5. Uncertainty of Evaluation

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

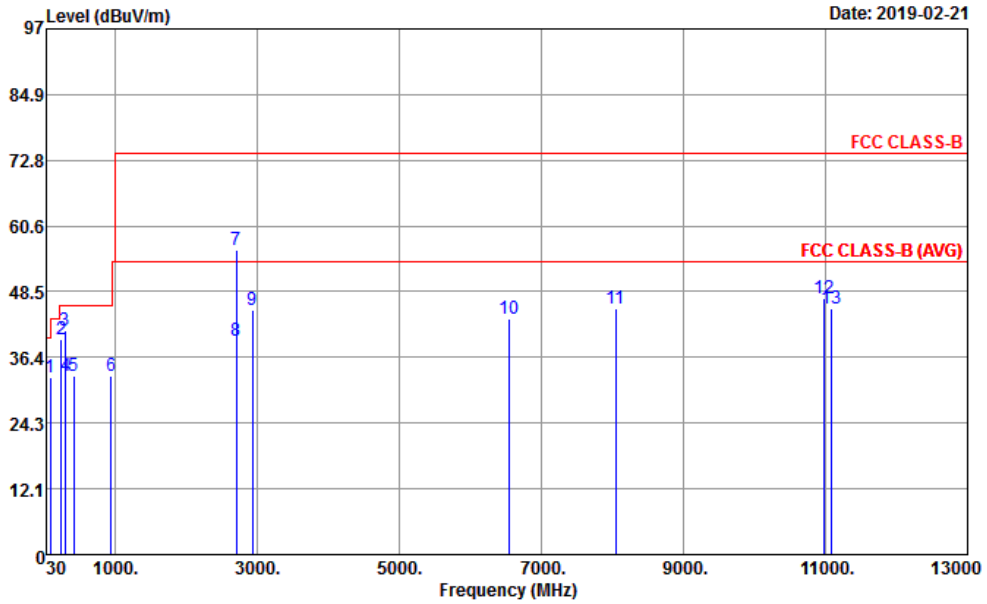
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.6**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.9**

Appendix A. Radiated Emission Test Result

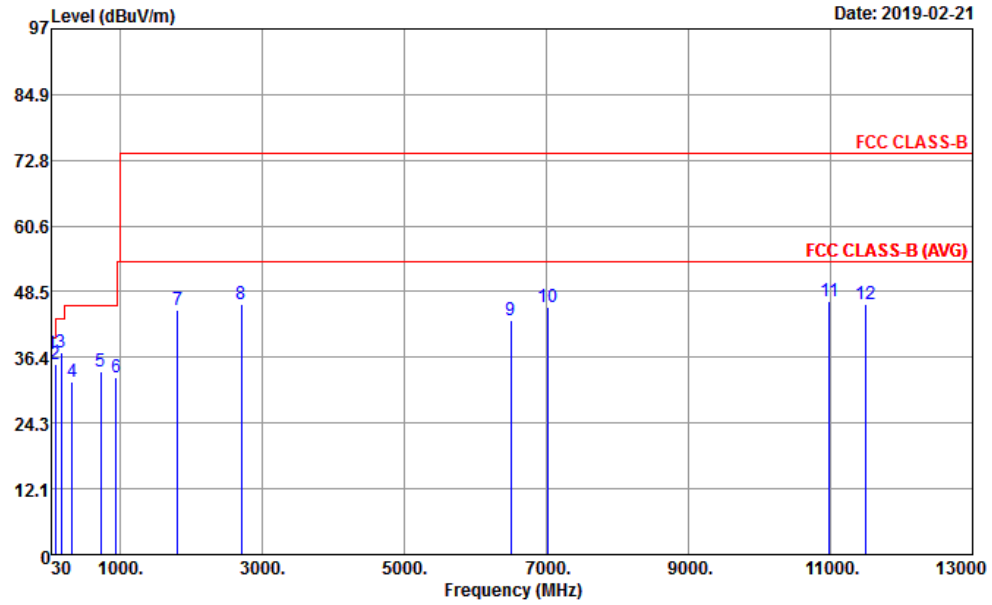
Test Engineer :	Daniel Lee	**Temperature :**	20~23°C
		Relative Humidity :	50~53%
Test Distance :	3m	**Polarization :**	Horizontal



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL
Project : 912262
Power : 120Vac/60Hz
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	85.89	32.66	-7.34	40.00	50.17	14.19	0.99	32.69	---	---	Peak
2	239.79	39.85	-6.15	46.00	53.48	17.27	1.70	32.60	---	---	Peak
3	290.28	41.27	-4.73	46.00	52.86	19.11	1.91	32.61	100	0	Peak
4	304.90	32.92	-13.08	46.00	44.29	19.30	1.94	32.61	---	---	Peak
5	421.10	32.98	-13.02	46.00	40.67	22.60	2.33	32.62	---	---	Peak
6	938.40	33.04	-12.96	46.00	30.79	30.20	3.49	31.44	---	---	Peak
7	2708.00	56.25	-17.75	74.00	83.20	27.63	7.26	61.84	109	184	Peak
8	2708.00	39.55	-14.45	54.00	66.50	27.63	7.26	61.84	109	184	Average
9	2930.00	45.13	-28.87	74.00	71.15	28.26	7.61	61.89	---	---	Peak
10	6544.00	43.55	-30.45	74.00	62.14	34.29	10.17	63.05	---	---	Peak
11	8048.00	45.27	-28.73	74.00	60.67	37.00	11.25	63.65	---	---	Peak
12	10970.00	47.21	-26.79	74.00	57.78	40.07	13.20	63.84	---	---	Peak
13	11080.00	45.34	-28.66	74.00	56.18	39.70	13.28	63.82	---	---	Peak

Test Engineer :	Daniel Lee	Temperature :	20~23°C
		Relative Humidity :	50~53%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL
Project : 912262
Power : 120Vac/60Hz
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	40.26	36.96	-3.04	40.00	49.73	19.42	0.57	32.76	100	0	Peak
2	84.00	35.01	-4.99	40.00	52.74	14.00	0.97	32.70	---	---	Peak
3	165.27	37.16	-6.34	43.50	52.41	16.00	1.37	32.62	---	---	Peak
4	321.70	31.95	-14.05	46.00	43.13	19.47	1.96	32.61	---	---	Peak
5	723.50	33.85	-12.15	46.00	35.96	27.31	3.10	32.52	---	---	Peak
6	947.50	32.59	-13.41	46.00	29.63	30.80	3.51	31.35	---	---	Peak
7	1806.00	45.21	-28.79	74.00	76.26	25.10	5.55	61.70	---	---	Peak
8	2706.00	46.17	-27.83	74.00	73.13	27.62	7.26	61.84	---	---	Peak
9	6502.00	43.11	-30.89	74.00	61.81	34.20	10.10	63.00	---	---	Peak
10	7022.00	45.59	-28.41	74.00	63.30	35.49	10.40	63.60	---	---	Peak
11	10982.00	46.83	-27.17	74.00	57.36	40.08	13.21	63.82	100	0	Peak
12	11488.00	46.20	-27.80	74.00	57.00	39.50	13.60	63.90	---	---	Peak

THE END