

Report No.: FR942629D



FCC RADIO TEST REPORT

FCC ID : IHDT56YC1

Equipment: Mobile Cellular Phone

Brand Name : Motorola Model Name : XT2010-1

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 Part 15 Subpart C §15.225

The product was received on Apr. 26, 2019 and testing was started from May 06, 2019 and completed on May 27, 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 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.

Reviewed 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

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Report No.	Version	Description	Issued Date
FR942629D	01	Initial issue of report	Jun. 06, 2019

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	Under limit 13.30 dB at 3.99975MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
3.2	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.225(e)	Frequency Stability	Pass	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Pass	Max level 27.54 dBµV/m at 13.560 MHz
3.5 15.225(d) Radiated Spurious Emissions		Pass	Under limit 6.29 dB at 40.680MHz	
3.6	15.203	Antenna Requirements	Pass	-

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: Wii Chang
Report Producer: Yimin Ho

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1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Cellular Phone			
Brand Name	Motorola			
Model Name	XT2010-1			
FCC ID	IHDT56YC1			
Sample 1	Single SIM			
Sample 2	Dual SIM			
	Conducted: IMEI: 354156100004763			
IMEI Code	Conduction: IMEI: 354156100005364			
	Radiation: IMEI: 354156100005315			
	GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC/FM			
	WLAN 11b/g/n HT20			
EUT supports Radios application	WLAN 11a/n HT20/HT40			
	WLAN 11ac VHT20/VHT40/VHT80			
	Bluetooth BR/EDR/LE			
HW Version	DVT2A			
EUT Stage	Identical Prototype			

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

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	Acc	cessory List
	Brand Name :	Motorola
AC Adapter 1 (US)	Model Name:	SC-51
	Manufacturer:	Salom
	Brand Name :	Motorola
AC Adapter 1 (EU)	Model Name :	SC-52
	Manufacturer:	Salom
	Brand Name :	Motorola
AC Adapter 1 (UK)	Model Name :	SC-53
	Manufacturer:	Salom
	Brand Name :	Motorola
AC Adapter 1 (AR)	Model Name :	SC-56
	Manufacturer:	Salom
	Brand Name :	Motorola
AC Adapter 1 (BR)	Model Name :	SC-57
,	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 2 (US)	Model Name :	SC-51
. , ,	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (EU)	Model Name :	SC-52
. , ,	Manufacturer:	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (UK)	Model Name :	SC-53
. , ,	Manufacturer:	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (AR)	Model Name :	SC-56
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 3 (BR)	Model Name :	SC-57
	Manufacturer:	Flex
	Brand Name :	Motorola
AC Adapter 4 (BR)	Model Name :	SC-57
	Manufacturer:	Cliptech
	Brand Name :	Motorola
Battery 1	Model Name :	KP50
	Manufacturer:	SCUD
	Brand Name :	Motorola
Earphone 1	Model Name :	SH38C37773
•	Manufacturer:	Lianyun
	Brand Name :	Motorola
Earphone 2	Model Name :	SH38C44959
- -	Manufacturer:	Cosonic
110D 0-11- 4	Brand Name :	Luxshare
USB Cable 1	Model Name :	SC18C24368
	Brand Name :	Saibao
USB Cable 2	Model Name :	SC18C24367

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1.2 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency	13.56MHz		
Channel Number	1		
20dBW	2.64 KHz		
99%OBW	2.24 KHz		
Antenna Type	Loop Antenna		
Type of Modulation	ASK		

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

1.3 Modification of EUT

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

1.4 Testing Location

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.		
rest site No.	TH03-HY	CO05-HY	
Test Engineer	Benjamin Lin	Eric Jeng and Jimmy Chang	
Temperature 22~24°C		22~25 ℃	
Relative Humidity 53~55%		52~55%	

Note: The test site complies with ANSI C63.4 2014 requirement.

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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.		
rest Site No.	03CH11-HY		
Test Engineer	Hao Hsu		
Temperature	21~26 ℃		
Relative Humidity	52~57%		

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Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.225
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

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2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

Test Items			
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions		
20dB Spectrum Bandwidth	Frequency Stability		
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz		

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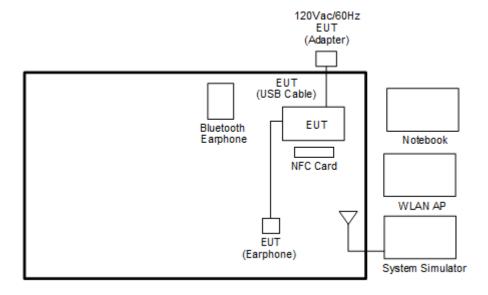
The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.

	Test Cases					
AC	Mode 1 : LTE Band 12 Low Channel Idle + Bluetooth Link + WLAN Link + NFC Tx +					
Conducted	Battery 1 + Earphone 2 + USB Cable 2 (Charging from AC Adapter 4					
Emission	(Cliptech_BR)) for Sample 1					
Remark: For Radiated Test Cases, the tests were performed with AC Adapter 1 (Salom US),						
Earphone 1, USB Cable 1 and Sample 1.						

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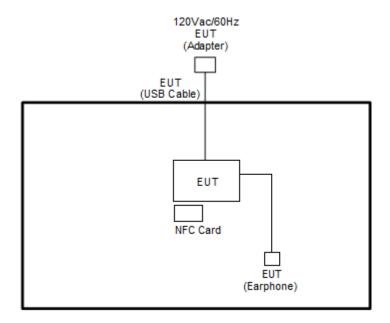
2.2 Connection Diagram of Test System

<AC Conducted Emission Mode>



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<For Fundamental Emissions and Mask and Radiated Emissions Measurement Mode>



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2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	NFC Card	N/A	N/A	N/A	N/A	N/A

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2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 0 cm gap to the EUT.

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3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit 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.

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Frequency of Emission	Conducted Limit (dΒμV)		
(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.

For terminal test result, the testing follows FCC KDB 174176.

3.1.2 Measuring Instruments

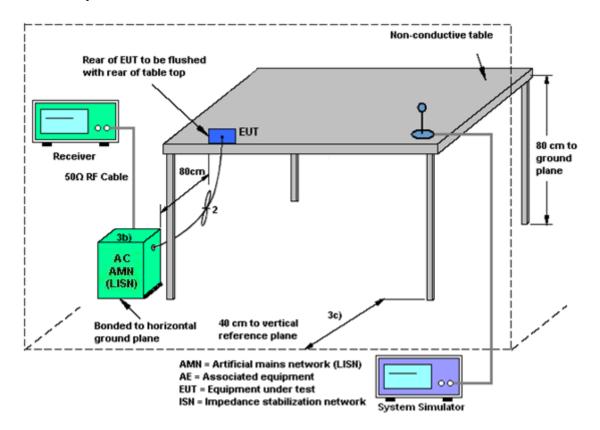
See list of measuring equipment of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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.

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3.1.4 Test setup



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3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

Note:

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.

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3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.56MHz.

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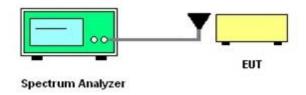
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

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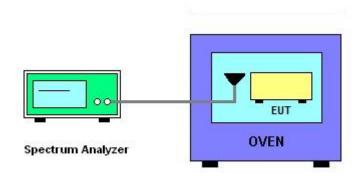
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ± 100 ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.4 Field Strength of Fundamental Emissions and Mask Measurement

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3.4.1 Limit

Rules and specifications	rs FCC CFR 47 Part 15 section 15.225					
Description	Compliance with th	e spectrum mask is t	ested with RBW set t	o 9kHz.		
Freq. of Emission (MHz)	Field Strength	Field Strength	Field Strength	Field Strength		
	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m		
1.705~13.110	30	30 29.5		69.5		
13.110~13.410	106	40.5	59.58	80.5		
13.410~13.553	334	50.5	69.58	90.5		
13.553~13.567	15848	84.0	103.08	124.0		
13.567~13.710	334	50.5	69.58	90.5		
13.710~14.010	106	40.5	59.58	80.5		
14.010~30.000	30	29.5	48.58	69.5		

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

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3.4.3 Test Procedures

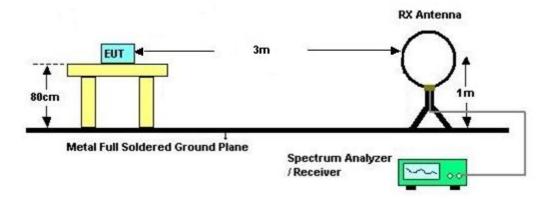
 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.

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- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- Compliance with the spectrum mask is tested with RBW set to 9kHz.
 Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

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3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

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Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver:

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

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3.5.4 Test Procedures

 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

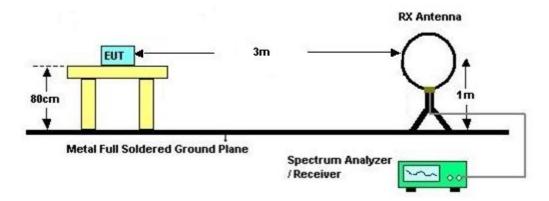
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- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

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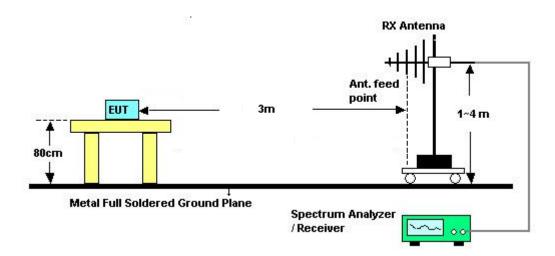
3.5.5 Test Setup

For radiated emissions below 30MHz



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For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 06, 2019	May 11, 2019	Mar. 05, 2020	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 29, 2018	May 11, 2019	Jun. 28, 2019	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 28, 2018	May 11, 2019	Nov. 27, 2019	Conducted (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	May 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	May 27, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	May 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	May 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 27, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	May 06, 2019	N/A	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	May 06, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 13, 2018	May 06, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 05, 2018	May 06, 2019	Nov. 04, 2019	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2018	May 06, 2019	Oct. 18, 2019	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 06, 2019	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	May 06, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 06, 2019	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY5329 0045	N/A	Jan. 19, 2019	May 06, 2019	Jan. 18, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000 C7/40SS	SN2	20M High Pass	Sep. 16, 2018	May 06, 2019	Sep. 15, 2019	Radiation (03CH11-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 14, 2018	May 06, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 14, 2018	May 06, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 14, 2018	May 06, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	May 06, 2019	Jan. 06, 2020	Radiation (03CH11-HY)

Report No.: FR942629D

TEL: 886-3-327-3456 Page Number : 23 of 24 FAX: 886-3-328-4978 Issued Date : Jun. 06, 2019

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

Report No.: FR942629D

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	3.45
of 95% (U = 2Uc(y))	3.45

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

Measuring Uncertainty for a Level of Confidence	5.20
of 95% (U = 2Uc(y))	

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Appendix A. Test Results of Conducted Emission Test

Test Engineer : Eric Jeng and Jimmy Chang	Temperature :	22~25 ℃	
	Eric Jeng and Jimmy Chang	Relative Humidity :	52~55%

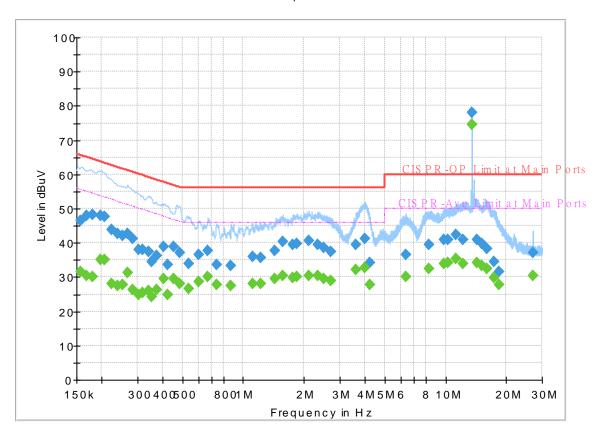
Report No. : FR942629D

TEL: 886-3-327-3456 Page Number : A1 of A1

Report NO: 942629
Test Mode: Original
Test Voltage: 120Vac/60Hz

Phase: Line

Full Spectrum



Final Result

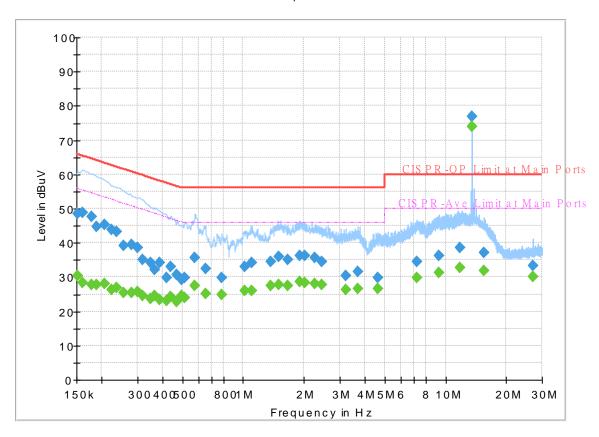
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750		31.45	55.63	24.18	L1	OFF	19.5
0.156750	46.49	-	65.63	19.14	L1	OFF	19.5
0.168000		30.43	55.06	24.63	L1	OFF	19.5
0.168000	48.09		65.06	16.97	L1	OFF	19.5
0.179250		30.02	54.52	24.50	L1	OFF	19.5
0.179250	48.19		64.52	16.33	L1	OFF	19.5
0.197250		35.13	53.73	18.60	L1	OFF	19.5
0.197250	48.06		63.73	15.67	L1	OFF	19.5
0.206250		35.11	53.36	18.25	L1	OFF	19.5
0.206250	47.75		63.36	15.61	L1	OFF	19.5
0.224250		28.03	52.66	24.63	L1	OFF	19.5
0.224250	43.95		62.66	18.71	L1	OFF	19.5
0.240000		27.49	52.10	24.61	L1	OFF	19.5
0.240000	42.78		62.10	19.32	L1	OFF	19.5
0.253500		27.66	51.64	23.98	L1	OFF	19.5
0.253500	42.15		61.64	19.49	L1	OFF	19.5
0.267000		31.25	51.21	19.96	L1	OFF	19.5
0.267000	42.73		61.21	18.48	L1	OFF	19.5
0.285000		26.35	50.67	24.32	L1	OFF	19.5
0.285000	41.15		60.67	19.52	L1	OFF	19.5
0.305250		24.84	50.10	25.26	L1	OFF	19.5

0.305250	37.98		60.10	22.12	L1	OFF	19.5
0.318750		25.33	49.74	24.41	L1	OFF	19.5
0.318750	37.89		59.74	21.85	L1	OFF	19.5
0.341250		26.03	49.17	23.14	L1		19.5
0.341250	37.40	20.03	59.17	21.77	L1		19.5
		24.35					
0.352500			48.90	24.55	L1	_	19.5
0.352500	34.57		58.90	24.33	L1	_	19.5
0.375000		26.18	48.39	22.21	L1	OFF	19.5
0.375000	36.37		58.39	22.02	L1	OFF	19.5
0.406500		29.47	47.72	18.25	L1	OFF	19.5
0.406500	38.79		57.72	18.93	L1	OFF	19.5
0.424500		24.94	47.36	22.42	L1		19.5
0.424500	33.68		57.36	23.68	L1		19.5
0.451500		29.66	46.85	17.19	L1		19.5
0.451500	39.02		56.85	17.83	L1		19.5
0.485250		28.01	46.25	18.24	L1		19.5
0.485250	37.27		56.25	18.98	L1		19.5
0.539250		26.65	46.00	19.35	L1	OFF	19.5
0.539250	33.98		56.00	22.02	L1	OFF	19.5
0.600000		28.54	46.00	17.46	L1	OFF	19.6
0.600000	36.60		56.00	19.40	L1		19.6
0.667500	30.00	30.24	46.00	15.76	L1		19.6
0.667500	37.62	27.00	56.00	18.38	L1		19.6
0.737250		27.88	46.00	18.12	L1		19.6
0.737250	33.49		56.00	22.51	L1	_	19.6
0.867750		27.58	46.00	18.42	L1	OFF	19.6
0.867750	33.31		56.00	22.69	L1	OFF	19.6
1.108500		28.12	46.00	17.88	L1	OFF	19.6
1.108500	36.05		56.00	19.95	L1		19.6
1.214250		28.05	46.00	17.95	L1		19.6
1.214250	35.66		56.00	20.34	L1		19.6
		20.20					
1.428000		29.39	46.00	16.61	L1		19.6
1.428000	37.75		56.00	18.25	L1	_	19.6
1.574250		30.43	46.00	15.57	L1	_	19.6
1.574250	40.28		56.00	15.72	L1	OFF	19.6
1.756500		29.78	46.00	16.22	L1	OFF	19.6
1.756500	39.35		56.00	16.65	L1	OFF	19.6
1.844250		30.22	46.00	15.78	L1		19.6
1.844250	39.66		56.00	16.34	L1		19.6
2.105250		30.32	46.00	15.68	L1		19.4
	40.54						
2.105250	40.51		56.00	15.49	L1		19.4
2.325750		30.48	46.00	15.52	L1		19.5
2.325750	39.53		56.00	16.47	L1		19.5
2.494500		29.62	46.00	16.38	L1	OFF	19.6
2.494500	38.53		56.00	17.47	L1	OFF	19.6
2.703750		28.90	46.00	17.10	L1	OFF	19.6
2.703750	37.38		56.00	18.62	L1		19.6
3.601500		32.11	46.00	13.89	L1		19.7
3.601500	39.60		56.00	16.40	L1		19.7
3.999750		20.70					
	44.22	32.70	46.00	13.30	L1		19.7
3.999750	41.32		56.00	14.68	L1		19.7
4.224750		27.92	46.00	18.08	L1		19.7
4.224750	34.12		56.00	21.88	L1		19.7
6.387000		30.02	50.00	19.98	L1	OFF	19.8
6.387000	36.47		60.00	23.53	L1	OFF	19.8
8.261250		32.60	50.00	17.40	L1		19.8
8.261250	39.36		60.00	20.64	L1		19.8
9.843000		33.90	50.00	16.10	L1		19.9
9.843000	40.00		60.00	19.18	L1		19.9
	40.82	24.42					
10.286250	40.00	34.12	50.00	15.88	L1		19.9
10.286250	40.86		60.00	19.14	L1		19.9
11.215500		35.28	50.00	14.72	L1		20.0
11.215500	42.49		60.00	17.51	L1	OFF	20.0
12.212250		34.04	50.00	15.96	L1		20.0
12.212250	41.03		60.00	18.97	L1	OFF	20.0
13.560000		74.59	50.00	-24.59	L1		20.0
13.560000	78.06		60.00	-18.06	L1		20.0
14.318250	70.00	34.34	50.00	15.66	L1		20.0
	40.06	34.34					
14.318250	40.96		60.00	19.04	L1		20.1
15.103500		33.37	50.00	16.63	L1		20.1
15.103500	39.84		60.00	20.16	L1	OFF	20.1

15.940500		32.50	50.00	17.50	L1	OFF	20.1
15.940500	38.44		60.00	21.56	L1	OFF	20.1
17.324250		29.76	50.00	20.24	L1	OFF	20.2
17.324250	34.41		60.00	25.59	L1	OFF	20.2
18.426750		27.74	50.00	22.26	L1	OFF	20.2
18.426750	31.58		60.00	28.42	L1	OFF	20.2
27.120750		30.37	50.00	19.63	L1	OFF	20.4
27.120750	37.19		60.00	22.81	L1	OFF	20.4

Report NO: 942629
Test Mode: Original
Test Voltage: 120Vac/60Hz
Phase: Neutral

Full Spectrum



Final Result

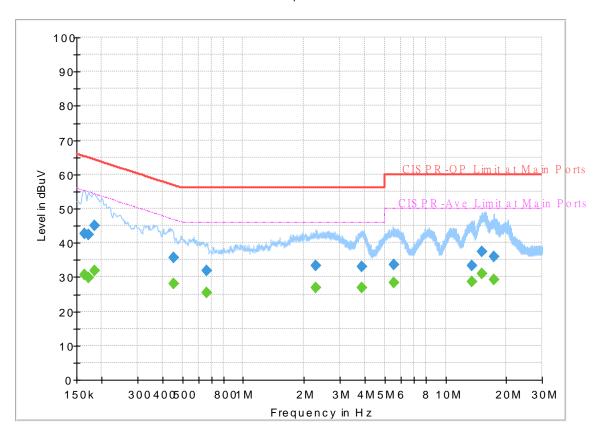
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250		30.30	55.88	25.58	N	OFF	19.5
0.152250	48.63		65.88	17.25	N	OFF	19.5
0.161250		28.29	55.40	27.11	N	OFF	19.5
0.161250	48.72		65.40	16.68	N	OFF	19.5
0.177000		27.89	54.63	26.74	N	OFF	19.5
0.177000	47.60		64.63	17.03	N	OFF	19.5
0.188250		27.68	54.11	26.43	N	OFF	19.5
0.188250	44.87		64.11	19.24	N	OFF	19.5
0.206250		28.10	53.36	25.26	N	OFF	19.5
0.206250	45.36		63.36	18.00	N	OFF	19.5
0.224250		26.29	52.66	26.37	N	OFF	19.5
0.224250	43.82		62.66	18.84	N	OFF	19.5
0.237750		26.96	52.17	25.21	N	OFF	19.5
0.237750	43.21		62.17	18.96	N	OFF	19.5
0.255750		25.55	51.57	26.02	N	OFF	19.5
0.255750	39.25		61.57	22.32	N	OFF	19.5
0.280500		25.41	50.80	25.39	N	OFF	19.5
0.280500	39.58		60.80	21.22	N	OFF	19.5
0.300750		25.79	50.22	24.43	N	OFF	19.5
0.300750	38.46		60.22	21.76	N	OFF	19.5
0.318750		24.57	49.74	25.17	N	OFF	19.5

0.240750	25.44		F0 74	24.00		OFF	40 F
0.318750 0.348000	35.14	23.58	59.74 49.01	24.60 25.43	N	OFF OFF	19.5 19.5
0.348000	34.20	23.36	59.01	24.81	N	OFF	19.5
0.363750	34.20	24.53	48.64	24.11	N	OFF	19.5
0.363750	32.20	24.33	58.64	26.44	N	OFF	19.5
0.386250	32.20	23.53	48.14	24.61	N	OFF	19.5
0.386250	34.28	23.33	58.14	23.86	N	OFF	19.5
0.417750		22.99	47.49	24.50	N	OFF	19.5
0.417750	29.75		57.49	27.74	N	OFF	19.5
0.440250		24.27	47.06	22.79	N	OFF	19.5
0.440250	33.16		57.06	23.90	N	OFF	19.5
0.467250		22.77	46.56	23.79	N	OFF	19.5
0.467250	30.63		56.56	25.93	N	OFF	19.5
0.496500		24.62	46.06	21.44	Ν	OFF	19.5
0.496500	29.31		56.06	26.75	Ν	OFF	19.5
0.512250		23.89	46.00	22.11	N	OFF	19.5
0.512250	29.77		56.00	26.23	N	OFF	19.5
0.577500		27.57	46.00	18.43	N	OFF	19.5
0.577500	35.80		56.00	20.20	N	OFF	19.5
0.649500		25.28	46.00	20.72	N	OFF	19.6
0.649500	32.49		56.00	23.51	N	OFF	19.6
0.782250		24.80	46.00	21.20	N	OFF	19.6
0.782250	29.71		56.00	26.29	N	OFF	19.6
1.016250		26.06	46.00	19.94	N	OFF	19.6
1.016250	33.16		56.00	22.84	N	OFF	19.6
1.097250		26.10	46.00	19.90	N	OFF	19.6
1.097250	34.11		56.00	21.89	N	OFF	19.6
1.360500		27.44	46.00	18.56	N	OFF	19.6
1.360500	34.47		56.00	21.53	N	OFF	19.6
1.504500		27.63	46.00	18.37	N	OFF	19.6
1.504500	36.04		56.00	19.96	N	OFF	19.6
1.653000		27.59	46.00	18.41	N	OFF	19.6
1.653000	35.01		56.00	20.99	N	OFF	19.6
1.898250		28.71	46.00	17.29	N	OFF	19.6
1.898250	36.26		56.00	19.74	N	OFF	19.6
2.010750	20.40	28.35	46.00	17.65	N	OFF	19.6
2.010750	36.18	28.12	56.00	19.82	N	OFF OFF	19.6
2.260500 2.260500	35.58	20.12	46.00 56.00	17.88 20.42	N	OFF	19.5 19.5
2.438250	33.36	27.87	46.00	18.13	N	OFF	19.5
2.438250	34.54	27.07	56.00	21.46	N	OFF	19.6
3.214500	34.34	26.21	46.00	19.79	N	OFF	19.6
3.214500	30.32	20.21	56.00	25.68	N	OFF	19.6
3.682500	30.32	26.57	46.00	19.43	N	OFF	19.7
3.682500	31.56	20.57	56.00	24.44	N	OFF	19.7
4.611750		26.54	46.00	19.46	N	OFF	19.7
4.611750	29.77		56.00	26.23	N	OFF	19.7
7.237500		29.82	50.00	20.18	N	OFF	19.8
7.237500	34.52		60.00	25.48	N	OFF	19.8
9.287250		31.25	50.00	18.75	N	OFF	19.9
9.287250	36.25		60.00	23.75	N	OFF	19.9
11.814000		32.69	50.00	17.31	N	OFF	20.0
11.814000	38.52		60.00	21.48	N	OFF	20.0
13.560000		73.89	50.00	-23.89	N	OFF	20.1
13.560000	76.97		60.00	-16.97	N	OFF	20.1
15.463500		31.86	50.00	18.14	N	OFF	20.1
15.463500	37.15		60.00	22.85	N	OFF	20.1
27.118500		30.08	50.00	19.92	N	OFF	20.6
27.118500	33.39		60.00	26.61	N	OFF	20.6

Report NO: 942629
Test Mode: Terminal
Test Voltage: 120Vac/60Hz

Phase: Line

Full Spectrum



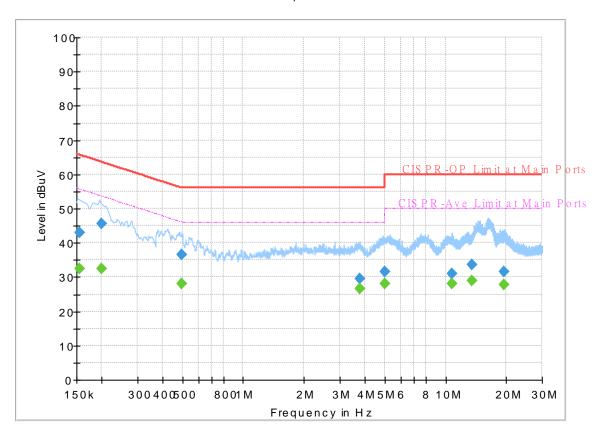
Final Result

	mai_rtoodit											
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.					
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)			(dB)					
0.163500		30.60	55.28	24.68	L1	OFF	19.5					
0.163500	42.68	-	65.28	22.60	L1	OFF	19.5					
0.172500		29.93	54.84	24.91	L1	OFF	19.5					
0.172500	42.52		64.84	22.32	L1	OFF	19.5					
0.183750		31.77	54.31	22.54	L1	OFF	19.5					
0.183750	45.09	-	64.31	19.22	L1	OFF	19.5					
0.451500		27.93	46.85	18.92	L1	OFF	19.5					
0.451500	35.67		56.85	21.18	L1	OFF	19.5					
0.663000		25.46	46.00	20.54	L1	OFF	19.6					
0.663000	32.02		56.00	23.98	L1	OFF	19.6					
2.289750		26.86	46.00	19.14	L1	OFF	19.5					
2.289750	33.25	-	56.00	22.75	L1	OFF	19.5					
3.869250		27.03	46.00	18.97	L1	OFF	19.7					
3.869250	33.12	-	56.00	22.88	L1	OFF	19.7					
5.536500		28.26	50.00	21.74	L1	OFF	19.7					
5.536500	33.53		60.00	26.47	L1	OFF	19.7					
13.560000		28.53	50.00	21.47	L1	OFF	20.0					
13.560000	33.43		60.00	26.57	L1	OFF	20.0					
15.222750		30.87	50.00	19.13	L1	OFF	20.1					
15.222750	37.49	-	60.00	22.51	L1	OFF	20.1					
17.369250		29.30	50.00	20.70	L1	OFF	20.2					

17.369250	35.95		60.00	24.05	L1	OFF	20.2
	•	•			•		

Report NO: 942629
Test Mode: Terminal
Test Voltage: 120Vac/60Hz
Phase: Neutral

Full Spectrum

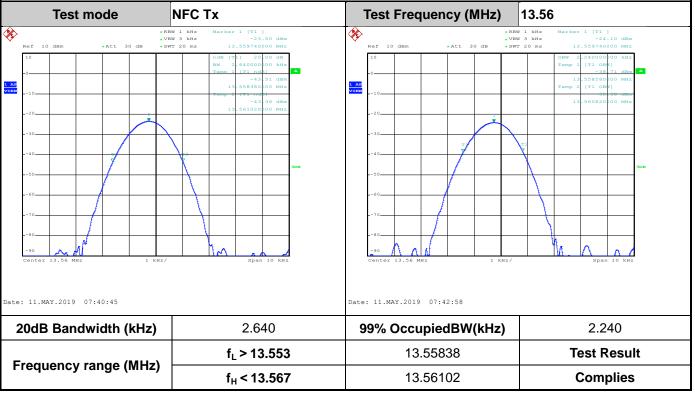


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500		32.38	55.75	23.37	N	OFF	19.5
0.154500	42.90		65.75	22.85	N	OFF	19.5
0.199500		32.37	53.63	21.26	N	OFF	19.5
0.199500	45.59		63.63	18.04	N	OFF	19.5
0.498750		27.99	46.02	18.03	N	OFF	19.5
0.498750	36.49		56.02	19.53	N	OFF	19.5
3.774750		26.65	46.00	19.35	N	OFF	19.7
3.774750	29.64		56.00	26.36	N	OFF	19.7
4.998750		28.18	46.00	17.82	N	OFF	19.7
4.998750	31.63		56.00	24.37	N	OFF	19.7
10.779000		28.00	50.00	22.00	N	OFF	20.0
10.779000	31.02		60.00	28.98	N	OFF	20.0
13.560000		29.01	50.00	20.99	N	OFF	20.1
13.560000	33.56		60.00	26.44	N	OFF	20.1
19.558500		27.82	50.00	22.18	N	OFF	20.3
19.558500	31.58		60.00	28.42	N	OFF	20.3

Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth



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Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

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B2. Test Result of Frequency Stability

B3. Voltage vs. F	requency Stability	Temperature vs. Frequency Stability				
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (℃)	Time	Measurement Frequency (MHz)		
120	13.559700	-20	0	13.559680		
102	13.559700		2	13.559800		
138	13.559700		5	13.559790		
			10	13.559780		
		-10	0	13.559790		
			2	13.559800		
			5	13.559790		
			10	13.559790		
		0	0	13.559780		
			2	13.559780		
			5	13.559780		
			10	13.559780		
		10	0	13.559750		
			2	13.559760		
			5	13.559760		
			10	13.559750		
		20	0	13.559700		
			2	13.559700		
			5	13.559700		
			10	13.559700		
		30	0	13.559660		
			2	13.559660		
			5	13.559660		
			10	13.559660		
		40	0	13.559640		
			2	13.559640		
			5	13.559640		
			10	13.559640		

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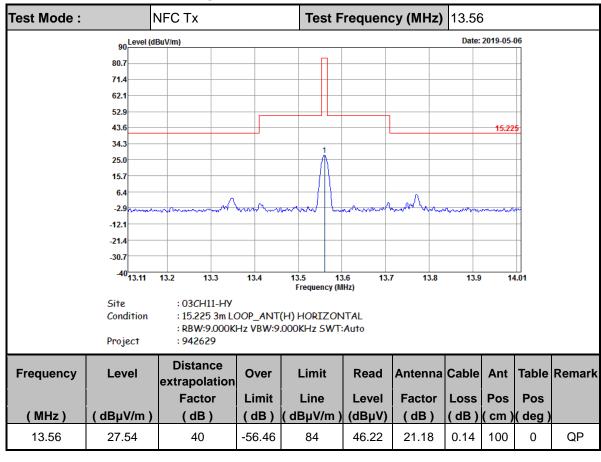
Voltage vs. Freque	Voltage vs. Frequency Stability		Temperature vs. Frequency Stability			
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)		
		50	0	13.559630		
		2		13.559630		
			5	13.559630		
			10	13.559630		
Max.Deviation (MHz)	-0.000300	Max.Deviati	on (MHz)	-0.000370		
Max.Deviation (ppm)	-22.1239	Max.Deviation (ppm)		-27.2861		
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm		
Test Result	PASS	Test Result		Test Result		PASS

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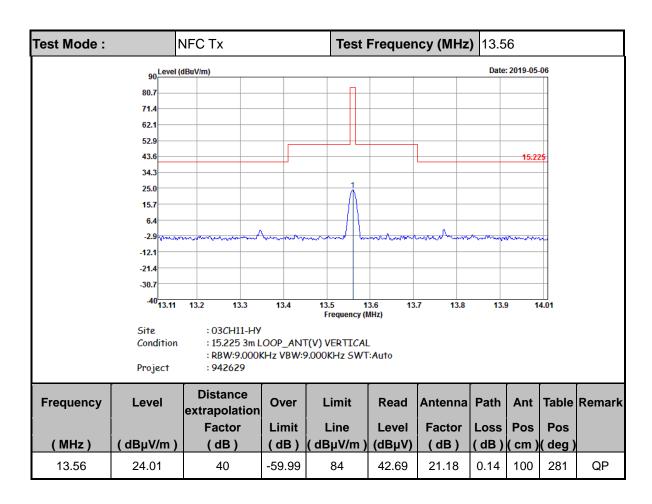
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions



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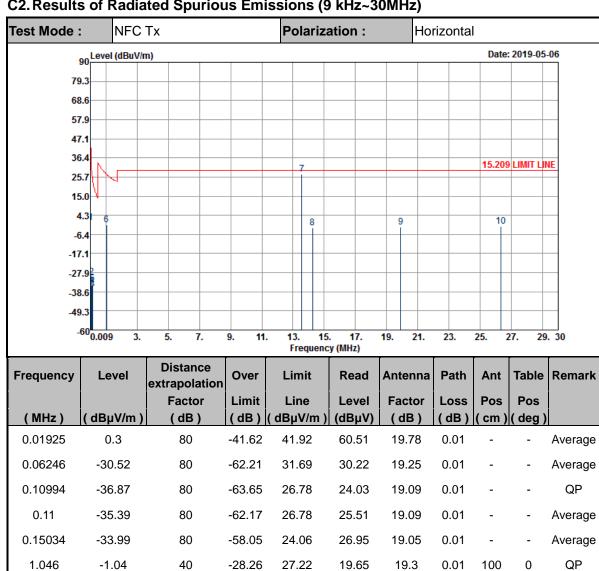
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C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)



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QΡ

QΡ

QP

QΡ

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-2.21

-32.22

-31.9

-31.29

40

40

40

40

29.5

29.5

29.5

29.5

45.97

15.89

15.74

16.26

21.18

21.24

21.69

21.76

0.14

0.15

0.17

0.19

FAX: 886-3-328-4978

13.56

14.256

19.906

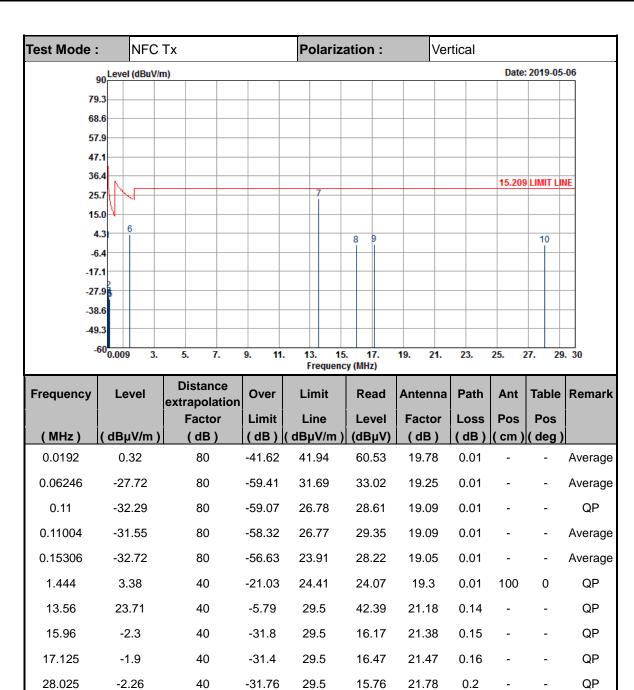
26.32

27.29

-2.72

-2.4

-1.79



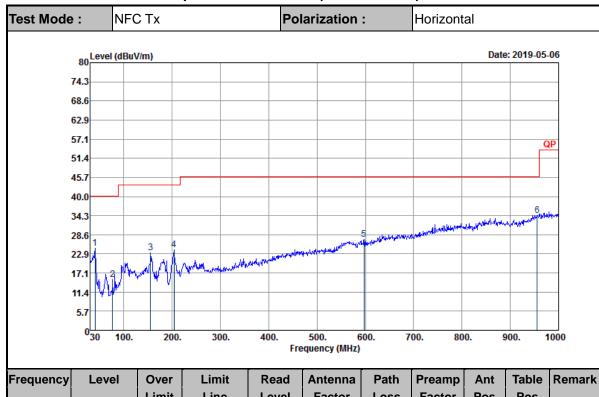
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Note:

- 1. 13.56 MHz is fundamental signal which can be ignored.
- 2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 4. Limit line = specific limits $(dB\mu V)$ + distance extrapolation factor.

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C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

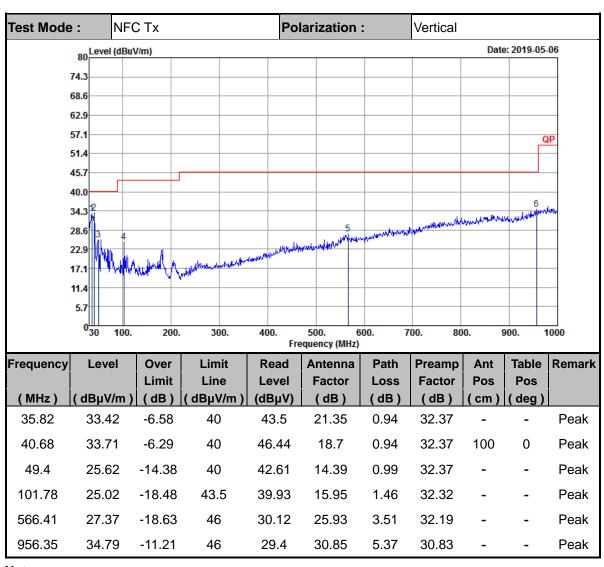


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Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.68	24.49	-15.51	40	37.22	18.7	0.94	32.37	-	-	Peak
76.56	15.22	-24.78	40	33.59	12.7	1.27	32.34	-	-	Peak
155.13	23.27	-20.23	43.5	37.23	16.58	1.74	32.28	-	-	Peak
203.63	24.07	-19.43	43.5	39.39	14.9	2.02	32.24	-	-	Peak
597.45	27.24	-18.76	46	30.34	25.41	3.7	32.21	-	-	Peak
955.38	34.38	-11.62	46	29.05	30.81	5.36	30.84	100	0	Peak

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Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.



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