

Report No.: FR051232-02D

FCC RADIO TEST REPORT

FCC ID : IHDT56ZB1

Equipment : Mobile Cellular Phone

Brand Name : Motorola

Model Name : XT2071-2, XT2071-3, XT2071-5

Applicant : Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

Manufacturer : Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

Standard : FCC Part 15 Subpart C §15.225

The product was received on May 22, 2020 and testing was started from Jun. 03, 2020 and completed on Jun. 03, 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 and has been in compliance with the applicable technical standards.

The test results in this variant 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: Louis Wu

TEL: 886-3-327-3456

Louis Win

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Report Version : 01

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History of this test report

Report No. : FR051232-02D

Report No.	Version	Description	Issued Date
FR051232-02D	01	Initial issue of report	Jul. 30, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.207	AC Power Line Conducted Emissions	Not Required	-
	15.215(c)	20dB Spectrum Bandwidth	Not Required	-
-	2.1049	99% OBW Spectrum Bandwidth	Not Required	-
-	15.225(e)	Frequency Stability	Not Required	-
3.1	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Pass	Max level 20.81 dBµV/m at 13.560 MHz
3.2	15.225(d) 15.209	Radiated Spurious Emissions	Pass	Under limit 12.91 dB at 40.670MHz
3.3	15.203	.203 Antenna Requirements Pass		-

Note:

- 1. Not required means after assessing, test items are not necessary to carry out.
- 2. This is a variant report which can be referred Product Equality Declaration. All the test cases were performed on original report which can be referred to Sporton Report Number FR051232D. Based on the original report, only worst case was verified.

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: Tina Chuang

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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	XT2071-2, XT2071-3, XT2071-5			
FCC ID	IHDT56ZB1			
IMEI Code	Radiation : IMEI 1: 353590110017517 IMEI 2: 353590110017525			
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE			
HW Version	DVT2			
EUT Stage Identical Prototype				

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

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Accessory List				
	Brand Name :	Motorola		
AC Adapter 1 (US)	Model Name :	SC-51		
	Manufacturer:	Chenyang		
		Motorola		
AC Adapter 1 (EU)	Model Name :	SC-52		
	Manufacturer:	Chenyang		
	Brand Name:	Motorola		
AC Adapter 1 (UK)	Model Name:	SC-53UK		
	Manufacturer:	Chenyang		
	Brand Name:	Motorola		
AC Adapter 1 (AR)	Model Name :	SC-56		
	Manufacturer:	Chenyang		
	Brand Name :	Motorola		
AC Adapter 1 (AU)	Model Name :	SC-55AU		
	Manufacturer :			
	Brand Name :	Motorola		
AC Adapter 2 (US)	Model Name :	SC-51		
	Manufacturer:			
	Brand Name:			
AC Adapter 2 (EU)	Model Name :			
	Manufacturer:			
	Brand Name :			
AC Adapter 2 (AR)	Model Name :			
	Manufacturer:			
		Motorola		
AC Adapter 3 (IN)	Model Name :	SC-54		
	Manufacturer :			
	Brand Name :			
Battery 1	Model Name :			
	Manufacturer :			
_	Brand Name :			
Battery 2		LS40		
	Manufacturer :			
	Brand Name :	Motorola		
Standard 3.5mm Headset 1	Model Name :	SH38C37773		
	Manufacturer :			
		Motorola		
Standard 3.5mm Headset 2	Model Name :	SH38C44959		
	Manufacturer :	•		
USB-C to 3.5mm headset adaptor 1	Brand Name :	Motorola		
	Model Name:	SC18C27844		
USB-C to 3.5mm headset adaptor 2	Brand Name :	Motorola		
	Model Name : Brand Name :	SC18C27845		
USB Cable 1	Model Name :	Motorola SC18C24367		
DOD CADIE I				
	Manufacturer :			
USB Cable 2	Brand Name : Model Name :	Motorola		
USB Cable 2		SC18C24368		
	Manufacturer :	Luxshare		

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1.2 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency 13.56MHz			
Channel Number	1		
Antenna Type	Flex antenna with winding coil pattern 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. 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.		
rest site No.	03CH11-HY		
Test Engineer	Troye Hsieh		
Temperature	20.3~24.7°C		
Relative Humidity 57.4~65.9%			

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

FCC designation No.: 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

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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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		
Field Strength of Fundamental Emissions		
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz	

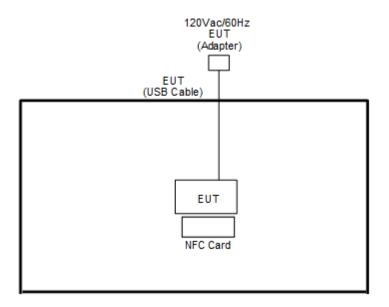
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The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z and accessory (Earphone or Adapter). in three orthogonal panels to determine the final configuration (Z plane with Adapter as worst plane) from all possible combinations. **Remark:** For Radiated Test Cases, the tests were performed with Adapter 1 (US) and USB Cable 1.

2.2 Connection Diagram of Test System

<NFC Tx with Adapter Mode>



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2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	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 Field Strength of Fundamental Emissions and Mask Measurement

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3.1.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.		
From of Francisco (MIII-)	Field Strength	Field Strength	Field Strength	Field Strength
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m
1.705~13.110	30	29.5	48.58	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

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

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3.1.3 Test Procedures

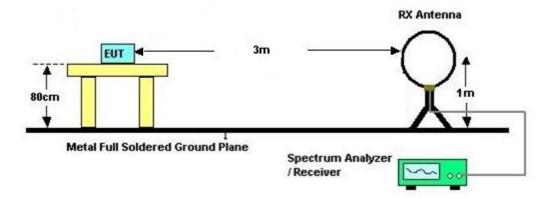
 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.

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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.
- 6. Compliance with the spectrum mask is tested with RBW set to 9kHz. Note: Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).

3.1.4 Test Setup

For radiated emissions below 30MHz



3.1.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix A.

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3.2 Radiated Emissions Measurement

3.2.1 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

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 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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3.2.4 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.

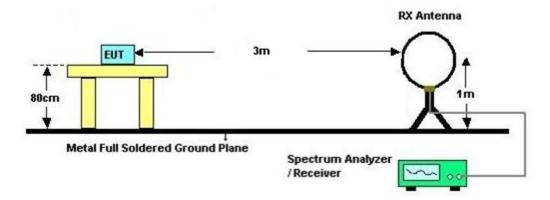
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- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground 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.
- 5. 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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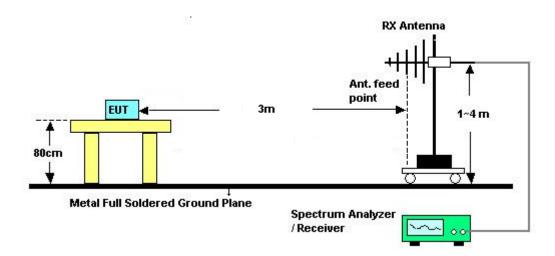
3.2.5 Test Setup

For radiated emissions below 30MHz



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For radiated emissions above 30MHz



3.2.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix A.

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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3.3 Antenna Requirements

3.3.1 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.

3.3.2 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. Characteristic		Characteristics	Calibration Date	Test Date	Due Date	Remark	
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Jun. 03, 2020	N/A	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Jun. 03, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Jun. 03, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Jun. 03, 2020	Dec. 25, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 03, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Jun. 03, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 03, 2020	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 45	20MHz~8.4GHz	Jan. 18, 2020	Jun. 03, 2020	Jan. 17, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz~44GHz	Oct. 28, 2019	Jun. 03, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000 C7/40SS	SN2	20M High Pass	Sep. 15, 2019	Jun. 03, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 12, 2020	Jun. 03, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 12, 2020	Jun. 03, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Jun. 03, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 07, 2019	Jun. 03, 2020	Nov. 06, 2020	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP161237	N/A	Oct. 25, 2019	Jun. 03, 2020	Oct. 24, 2020	Radiation (03CH11-HY)

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	3.12
of 95% (U = 2Uc(y))	3.12

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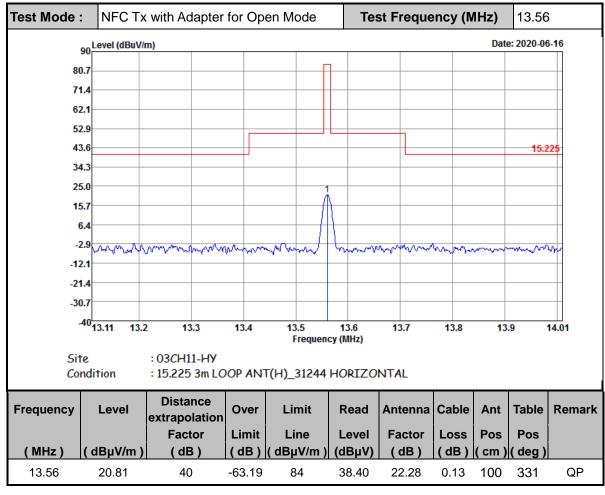
Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.20
of 95% (U = 2Uc(y))	3.20

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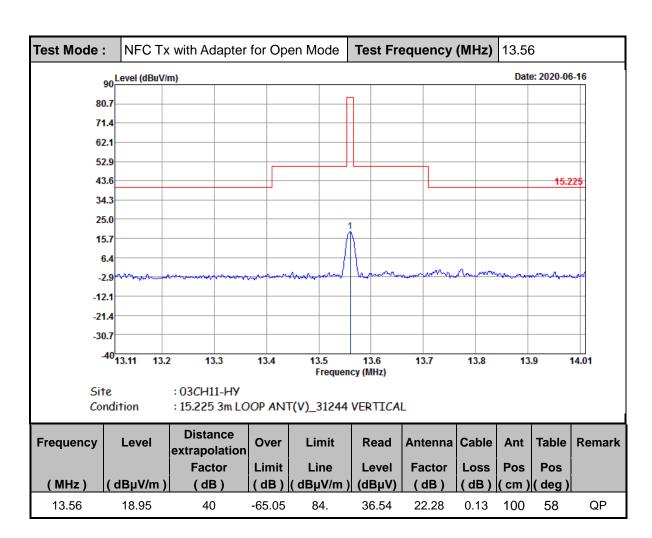
Appendix A. Test Results of Radiated Test Items

A1. Test Result of Field Strength of Fundamental Emissions



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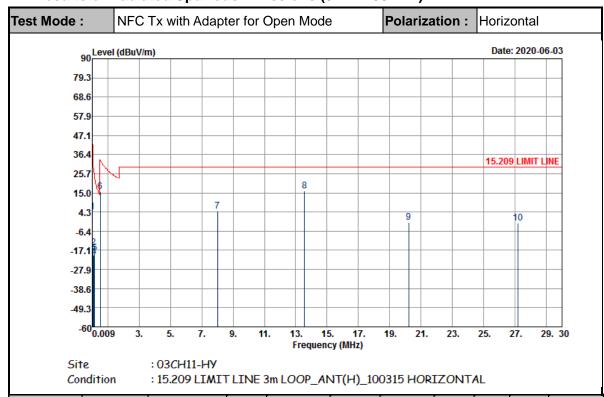
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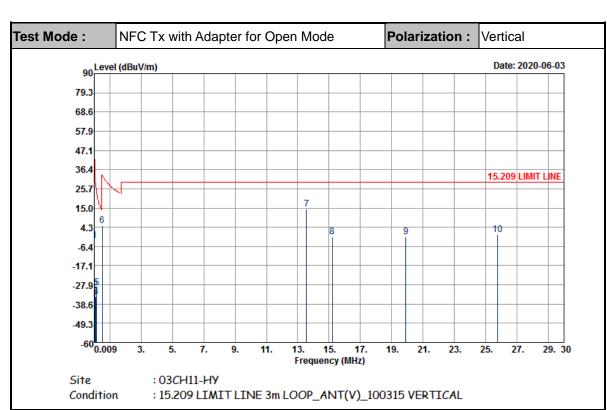
A2. Results of Radiated Spurious Emissions (9 kHz~30MHz)



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Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.01925	4.41	80	-37.51	41.92	65.33	19.07	0.01	-	-	Average
0.06249	-15.67	80	-47.36	31.69	45.06	19.25	0.02	-	-	Average
0.0938	-20.09	80	-48.25	28.16	41.26	18.62	0.03	-	-	QP
0.14068	-20.69	80	-45.33	24.64	40.67	18.62	0.02	-	-	Average
0.15714	-18.75	80	-42.43	23.68	42.56	18.67	0.02	-	-	Average
0.51253	15.57	40	-17.84	33.41	36.34	19.19	0.04	100	0	QP
8.016	4.88	40	-24.62	29.5	24.48	20.3	0.1	-	-	QP
13.56	16.04	40	-13.46	29.5	34.85	21.06	0.13	-	-	QP
20.212	-1.62	40	-31.12	29.5	16.49	21.72	0.17	-	-	QP
27.18	-1.95	40	-31.45	29.5	15.59	22.27	0.19	-	-	QP

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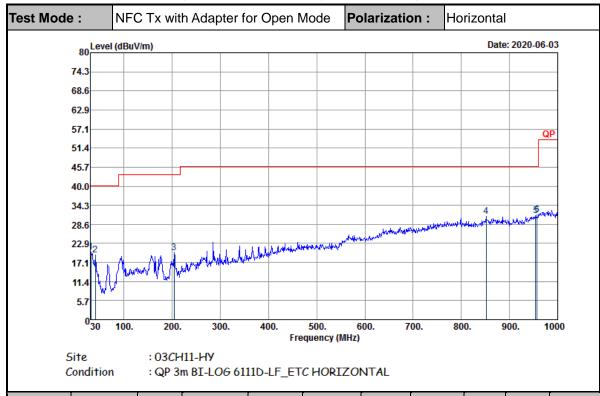
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.0192	-3.12	80	-45.06	41.94	57.8	19.07	0.01	-	-	Average
0.06249	-30.72	80	-62.41	31.69	30.01	19.25	0.02	-	-	Average
0.0938	-34.52	80	-62.68	28.16	26.83	18.62	0.03	-	-	QP
0.14064	-34.47	80	-59.11	24.64	26.89	18.62	0.02	-	-	Average
0.15238	-29.4	80	-53.35	23.95	31.92	18.66	0.02	-	-	Average
0.51253	5.19	40	-28.22	33.41	25.96	19.19	0.04	100	0	QP
13.56	14.46	40	-15.04	29.5	33.27	21.06	0.13	-	-	QP
15.216	-1.26	40	-30.76	29.5	17.38	21.22	0.14	-	-	QP
19.897	-0.95	40	-30.45	29.5	17.19	21.69	0.17	-	-	QP
25.77	0.33	40	-29.17	29.5	17.98	22.16	0.19	-	-	QP

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. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Limit line = specific limits ($dB\mu V$) + distance extrapolation factor
- 4. 13.56 MHz is fundamental signal which can be ignored

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A3. Results of Radiated Spurious Emissions (30MHz~1GHz)

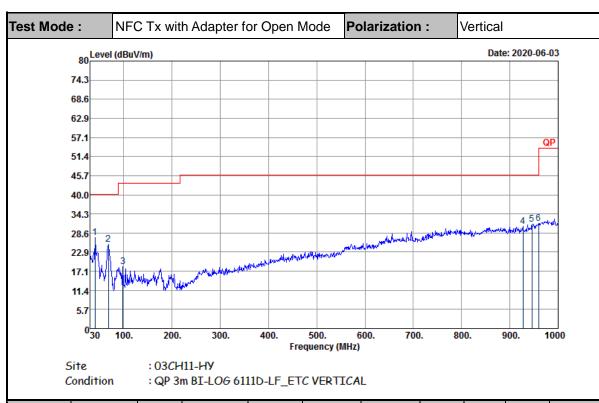


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Frequenc	y Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30.97	20.18	-19.82	40	27.81	23.86	0.93	32.42	-	-	Peak
40.67	19.46	-20.54	40	32.09	18.85	1	32.48	-	-	Peak
203.63	20	-23.5	43.5	35.7	14.76	2.12	32.58	-	-	Peak
851.59	30.97	-15.03	46	28.81	28.83	5.27	31.94	-	-	Peak
954.41	31.13	-14.87	46	26.44	30.32	5.38	31.01	-	-	Peak
957.32	31.52	-14.48	46	26.56	30.51	5.42	30.97	100	0	Peak

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Frequency	Level	Over	Limit	Read	Antenna	Cable	Pream p	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.67	27.09	-12.91	40	39.72	18.85	1	32.48	100	0	Peak
67.83	25.14	-14.86	40	44.56	11.81	1.25	32.48	-	-	Peak
97.9	18.4	-25.1	43.5	33.7	15.55	1.54	32.39	-	-	Peak
927.25	30.55	-15.45	46	27.66	29.08	5.18	31.37	-	-	Peak
945.68	31.14	-14.86	46	27.14	29.85	5.28	31.13	-	-	Peak
959.26	31.52	-14.48	46	26.38	30.64	5.45	30.95	-	-	Peak

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.

——THE END——

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