



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2087-1
FCC ID : IHDT56ZE1
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jun. 03, 2020 and testing was completed on Jun. 20, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1. GENERAL DESCRIPTION	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Product Feature of Equipment Under Test	5
1.4. Product Specification of Equipment Under Test	6
1.5. Modification of EUT	7
1.6. Specification of Accessory	8
1.7. Test Location	9
1.8. Test Software	9
1.9. Applicable Standards	9
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	10
2.1. Test Mode	10
2.2. Connection Diagram of Test System	12
2.3. Support Unit used in test configuration and system	13
2.4. EUT Operation Test Setup	14
3. TEST RESULT	15
3.1. Test of AC Conducted Emission Measurement	15
3.2. Test of Radiated Emission Measurement	19
4. LIST OF MEASURING EQUIPMENT	24
5. UNCERTAINTY OF EVALUATION	25
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC060301	Rev. 01	Initial issue of report	Jul. 22, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.41 dB at 0.189 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.09 dB at 42.610 MHz

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.



1. General Description

1.1. Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2087-1
FCC ID	IHDT56ZE1
EUT supports Radios application	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	Conduction: 355536110028457/355536110028465 Radiation: 355536110027830/355536110027848
HW Version	DVT2
SW Version	QPA30.19
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT, the sample 1 is dual SIM slot and sample 2 is single SIM slot. According to the difference, we only choose sample 1 to perform full tests and the sample 2 is verified.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz NFC : 13.56 MHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC : FPC Antenna FM : External Handset Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK

	HSDPA/DC-HSDPA : QPSK HSUPA : QPSK HSPA+ : 16QAM (uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK FM
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1.5. Modification of EUT

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

1.6. Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Acbel)	Model Name	SC-301
AC Adapter 1(EU)	Brand Name	Motorola (Acbel)	Model Name	SC-302
AC Adapter 1(UK)	Brand Name	Motorola (Acbel)	Model Name	SC-303
AC Adapter 1(AR)	Brand Name	Motorola (Acbel)	Model Name	SC-306
AC Adapter 1(AU)	Brand Name	Motorola (Acbel)	Model Name	SC-305
AC Adapter 1(Chile)	Brand Name	Motorola (Acbel)	Model Name	SC-309
AC Adapter 2(US)	Brand Name	Motorola (Salom)	Model Name	SC-301
AC Adapter 2(EU)	Brand Name	Motorola (Salom)	Model Name	SC-302
AC Adapter 2(UK)	Brand Name	Motorola (Salom)	Model Name	SC-303
AC Adapter 2(AR)	Brand Name	Motorola (Salom)	Model Name	SC-306
AC Adapter 2(AU)	Brand Name	Motorola (Salom)	Model Name	SC-305
AC Adapter 2(BR)	Brand Name	Motorola (Salom)	Model Name	SC-307
AC Adapter 3(BR)	Brand Name	Motorola (Salom/Flex)	Model Name	SC-307
Battery	Brand Name	Motorola(ATL)	Model Name	MG50
Earphone 1	Brand Name	Motorola (Lianyun)	Model Name	MI181 (SH38C37773)
Earphone 2	Brand Name	Motorola (Cosonic)	Model Name	MI181 (SH38C44959)
USB Cable 1	Brand Name	Motorola (Cabletech)	Model Name	SC18C37155
USB Cable 1 (Brazil local build)	Brand Name	Motorola (I SHENG)	Model Name	SC18C79240
USB Cable 2	Brand Name	Motorola (Luxshare)	Model Name	SC18C37156
USB Cable 3	Brand Name	Motorola (Saibao)	Model Name	SC18C37157

1.7. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH02-KS	CN1257	314309

1.8. Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

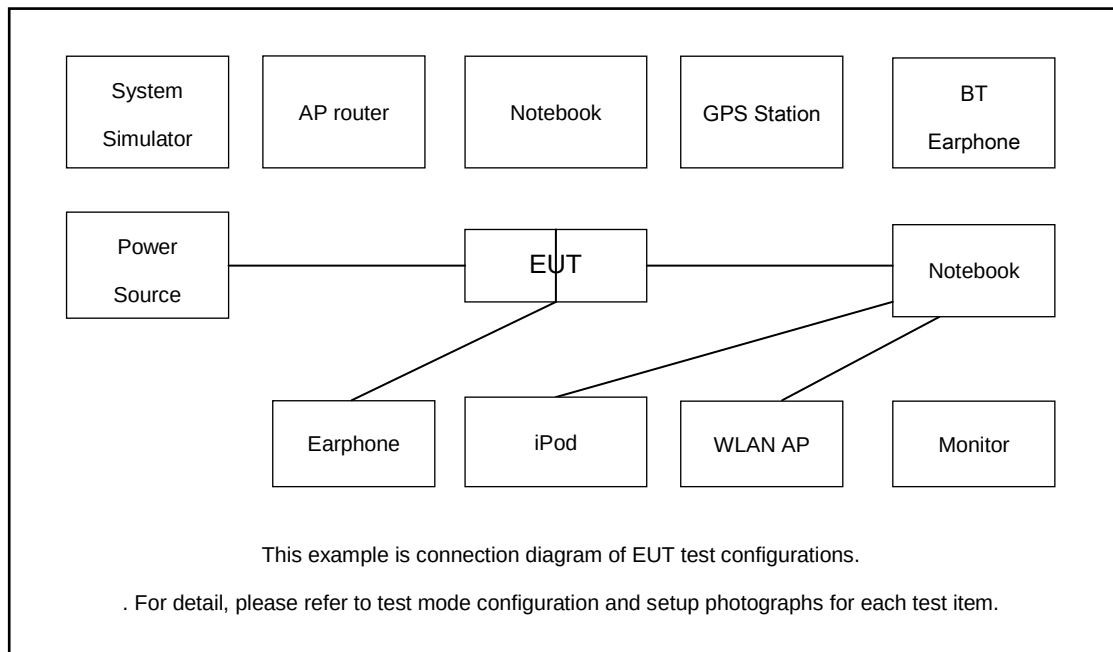
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Rx(Middle) + Bluetooth Idle + Earphone1 + Camera(Rear) + WLAN Idle(2.4G) + SIM 1 + USB Cable1(Charging from Adapter1) for Sample 1
	Mode 2: WCDMA 850 Rx(High) + Bluetooth Idle + Earphone2 + Camera(Front) + WLAN Idle(5G) + SIM 2 + USB Cable2(Charging from Adapter2) for Sample 1
	Mode 3: LTE Band 5 Rx(Low) + Bluetooth Idle + Earphone2 + MPEG4 + WLAN Idle(2.4G) + SIM 1 + USB Cable3(Charging from Adapter3) for Sample 1
	Mode 4: LTE Band 12 Rx(Middle) + Bluetooth Idle + Earphone2 + FM RX(98Mhz) + WLAN Idle(5G) + SIM 2 + USB Cable2(Charging from Adapter2) for Sample 1
	Mode 5: LTE Band 17 Rx(Low) + Bluetooth Idle + Earphone2 + NFC on + WLAN Idle(2.4G) + SIM 2 + USB Cable2(Charging from Adapter2) for Sample 1
	Mode 6: LTE Band 2 Rx(Middle) + Bluetooth Idle + Earphone2 + GNSS Rx + WLAN Idle(5G) + SIM 1 + USB Cable1(Data Link with Notebook) for Sample 1
	Mode 7: LTE Band 7 Rx(Low) + Bluetooth Idle + Earphone2 + GNSS Rx + WLAN Idle(2.4G) + SIM 2 + USB Cable2(Data Link with Notebook) for Sample 1
	Mode 8: LTE Band 66 Rx(High) + Bluetooth Idle + Earphone2 + GNSS Rx + WLAN Idle(5G) + SIM 1 + USB Cable3(Data Link with Notebook) for Sample 1
	Mode 9: LTE Band 12 Rx(Middle) + Bluetooth Idle + Earphone2 + FM RX(98Mhz) + WLAN Idle(5G) + USB Cable2(Charging from Adapter2) for Sample 2
Radiated Emissions	Mode 1: GSM 850 Rx(Middle) + Bluetooth Idle + Camera(Rear) + WLAN Idle(2.4G) + Earphone1 + SIM 1 + USB Cable1(Charging from Adapter1) for Sample 1
	Mode 2: WCDMA 850 Rx(High) + Bluetooth Idle + Camera(Front) + WLAN Idle(5G) + Earphone2 + SIM 2 + USB Cable2(Charging from Adapter2) for Sample 1
	Mode 3: LTE Band 5 Rx(Low) + Bluetooth Idle + MPEG4 + WLAN Idle(2.4G) + Earphone1 + SIM 1 + USB Cable3(Charging from Adapter3) for Sample 1
	Mode 4: LTE Band 12 Rx(Middle) + Bluetooth Idle + FM RX(88Mhz) + WLAN Idle(5G) + Earphone1 + SIM 2 + USB Cable1(Charging from Adapter1) for Sample 1
	Mode 5: LTE Band 17 Rx(Low) + Bluetooth Idle + NFC on + WLAN Idle(2.4G) + Earphone1 + SIM 2 + USB Cable1(Charging from Adapter1) for Sample 1

	Mode 6: LTE Band 2 Rx(Middle) + Bluetooth Idle + GNSS Rx + WLAN Idle(5G) + Earphone1 + SIM 1 + USB Cable1(Data Link with Notebook) for Sample 1 Mode 7: LTE Band 7 Rx(Low) + Bluetooth Idle + GNSS Rx + WLAN Idle(2.4G) + Earphone1 + SIM 2 + USB Cable2(Data Link with Notebook) for Sample 1 Mode 8: LTE Band 66 Rx(High) + Bluetooth Idle + GNSS Rx + WLAN Idle(5G) + Earphone1 + SIM 1 + USB Cable3(Data Link with Notebook) for Sample 1 Mode 9: LTE Band 12 Rx(Middle) + Bluetooth Idle + FM RX(88Mhz) + WLAN Idle(5G) + Earphone1 + USB Cable1(Charging from Adapter1) for Sample 2
Remark: 1. The worst case of AC is mode 4; only the test data of this mode is reported. 2. The worst case of RE is mode 4; only the test data of this mode is reported. 3. Data Link with Notebook means data application transferred mode between EUT and Notebook. 4. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.	

2.2.Connection Diagram of Test System



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

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Base Station	R&S	CMU 200	N/A	N/A	Unshielded,1.8m
5.	WLAN AP	D-Link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
6.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
7.	Signal Generator	R&S	SMBV100A	N/A	N/A	N/A
8.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
9.	SD Card	Kingston	8GB	N/A	N/A	N/A
10.	Notebook	Lenovo	S730-13IWL	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
11.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
12.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
13.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	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 to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

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 notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on NFC Function.
4. Turn on MPEG4 function.
5. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
6. Turn on FM function to make the EUT receive continuous signals from FM station.

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 Limit>

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.

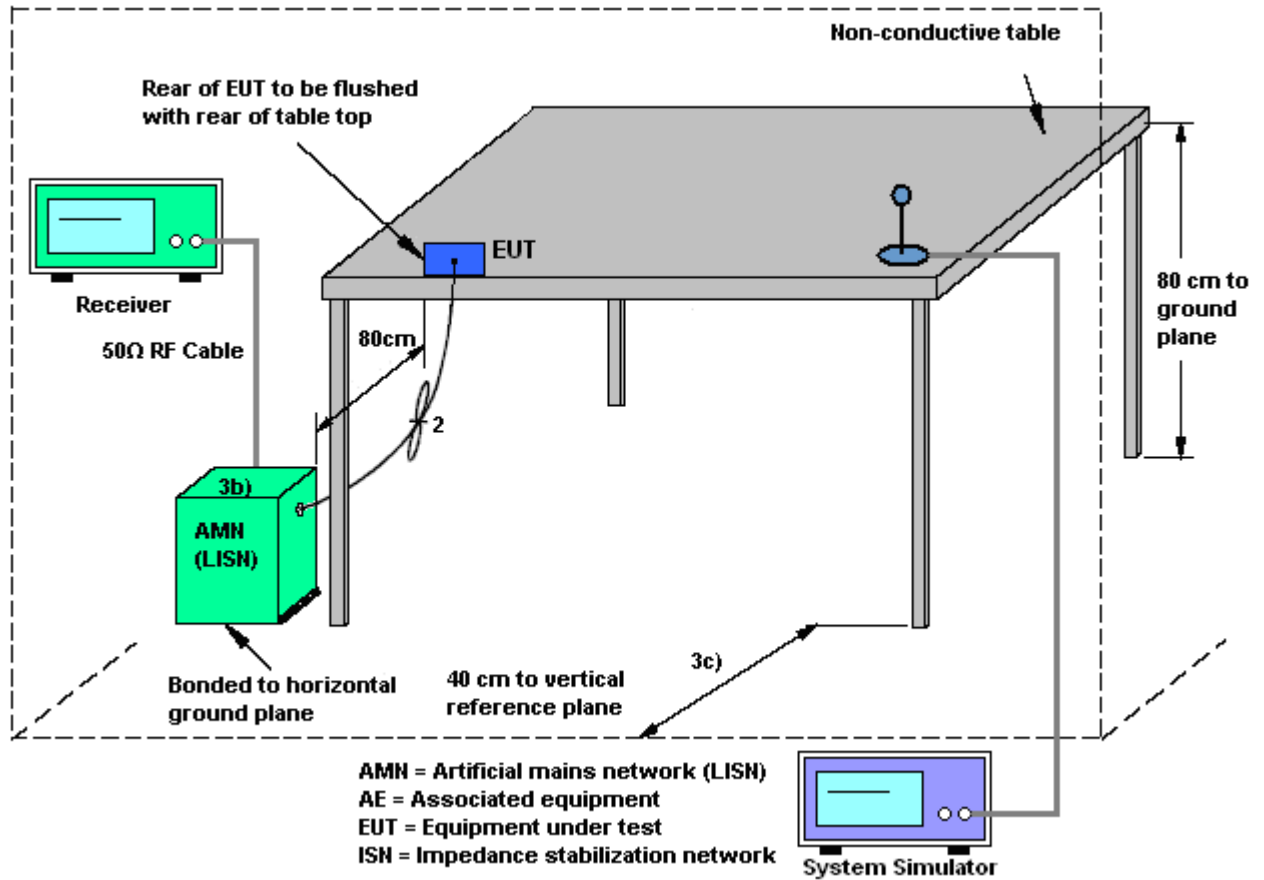
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of 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.

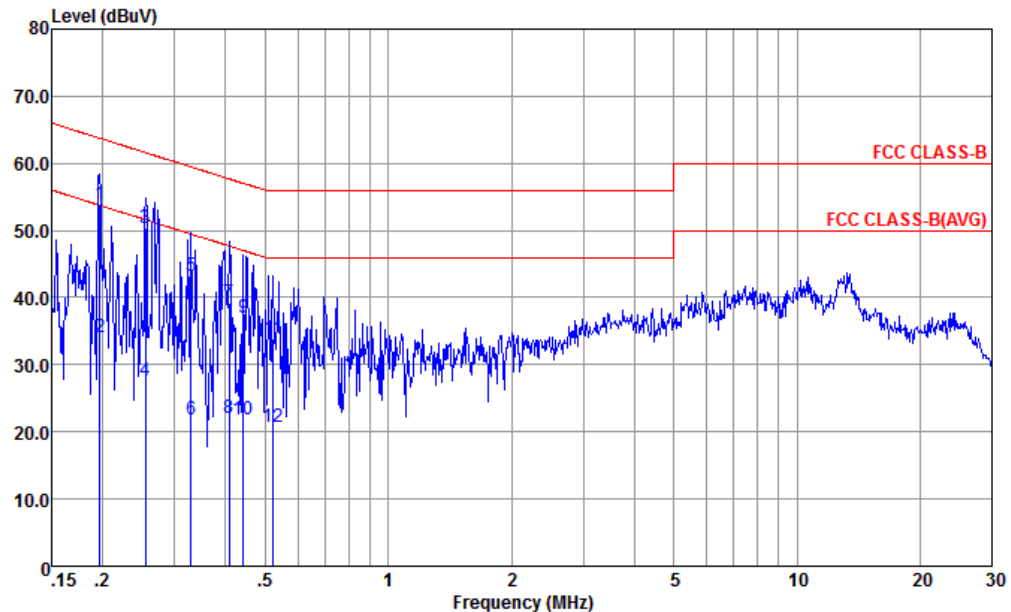
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

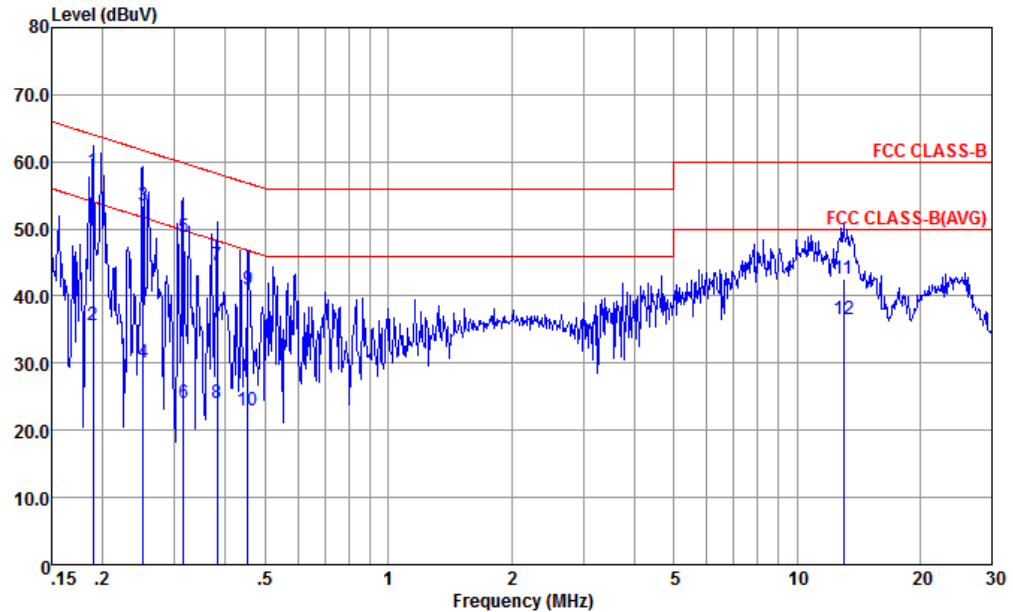


Site : CO01-KS
Condition : FCC CLASS-B LISN-L-191028-CN02 LINE
Project : (FC) 060301
mode : Mode 4
: 355536110028457/355536110028465 #6

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.197	53.96	-9.80	63.76	43.50	0.09	10.37	QP
2	0.197	34.06	-19.70	53.76	23.60	0.09	10.37	Average
3	0.255	50.33	-11.27	61.60	39.90	0.10	10.33	QP
4	0.255	27.63	-23.97	51.60	17.20	0.10	10.33	Average
5	0.329	43.30	-16.19	59.49	32.90	0.11	10.29	QP
6	0.329	21.90	-27.59	49.49	11.50	0.11	10.29	Average
7	0.408	39.28	-18.40	57.68	28.90	0.12	10.26	QP
8	0.408	21.98	-25.70	47.68	11.60	0.12	10.26	Average
9	0.442	36.98	-20.04	57.02	26.61	0.12	10.25	QP
10	0.442	21.88	-25.14	47.02	11.51	0.12	10.25	Average
11	0.524	33.97	-22.03	56.00	23.60	0.13	10.24	QP
12	0.524	20.67	-25.33	46.00	10.30	0.13	10.24	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-191028-CN02 NEUTRAL
Project : (FC) 060301
mode : Mode 4
: 355536110028457/355536110028465 #6

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.189	58.65	-5.41	64.06	48.11	0.16	10.38	QP
2	0.189	35.75	-18.31	54.06	25.21	0.16	10.38	Average
3	0.251	53.42	-8.31	61.73	42.91	0.18	10.33	QP
4	0.251	30.02	-21.71	51.73	19.51	0.18	10.33	Average
5	0.315	48.70	-11.14	59.84	38.20	0.20	10.30	QP
6	0.315	24.10	-25.74	49.84	13.60	0.20	10.30	Average
7	0.381	44.58	-13.67	58.25	34.10	0.21	10.27	QP
8	0.381	23.98	-24.27	48.25	13.50	0.21	10.27	Average
9	0.454	40.97	-15.83	56.80	30.50	0.22	10.25	QP
10	0.454	22.97	-23.83	46.80	12.50	0.22	10.25	Average
11	12.988	42.65	-17.35	60.00	30.60	1.67	10.38	QP
12	12.988	36.55	-13.45	50.00	24.50	1.67	10.38	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

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 Limit>

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

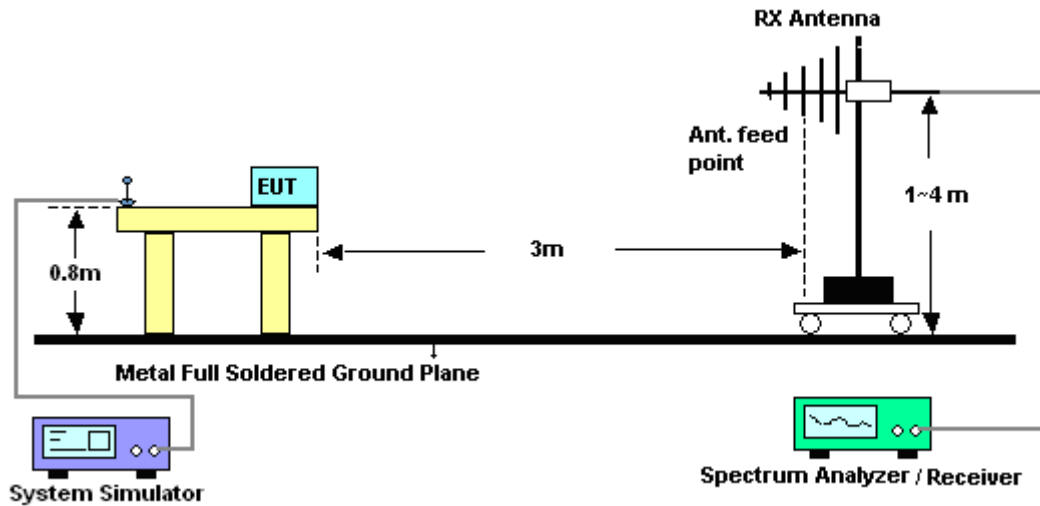
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

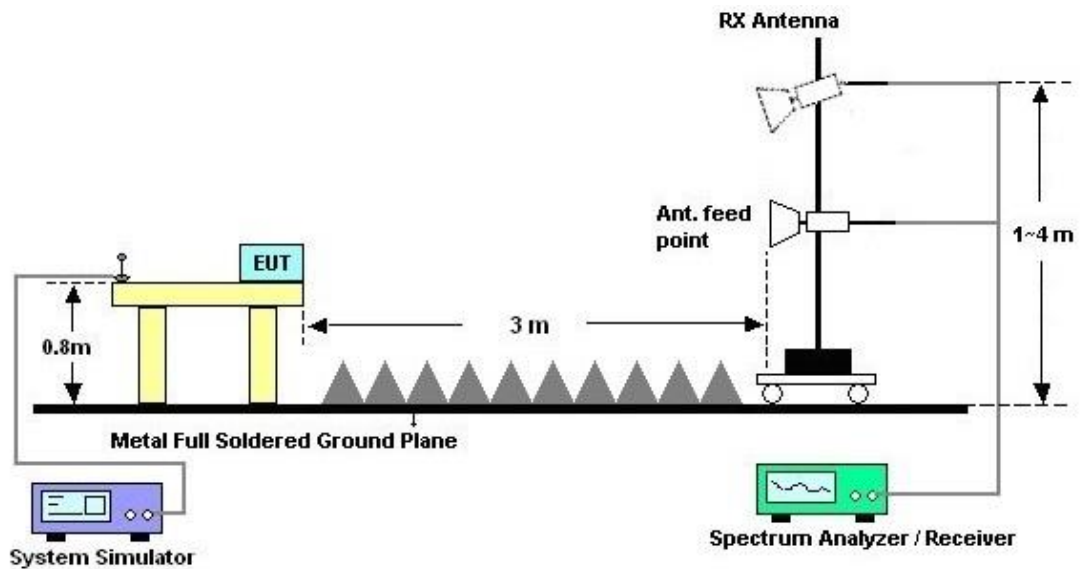
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

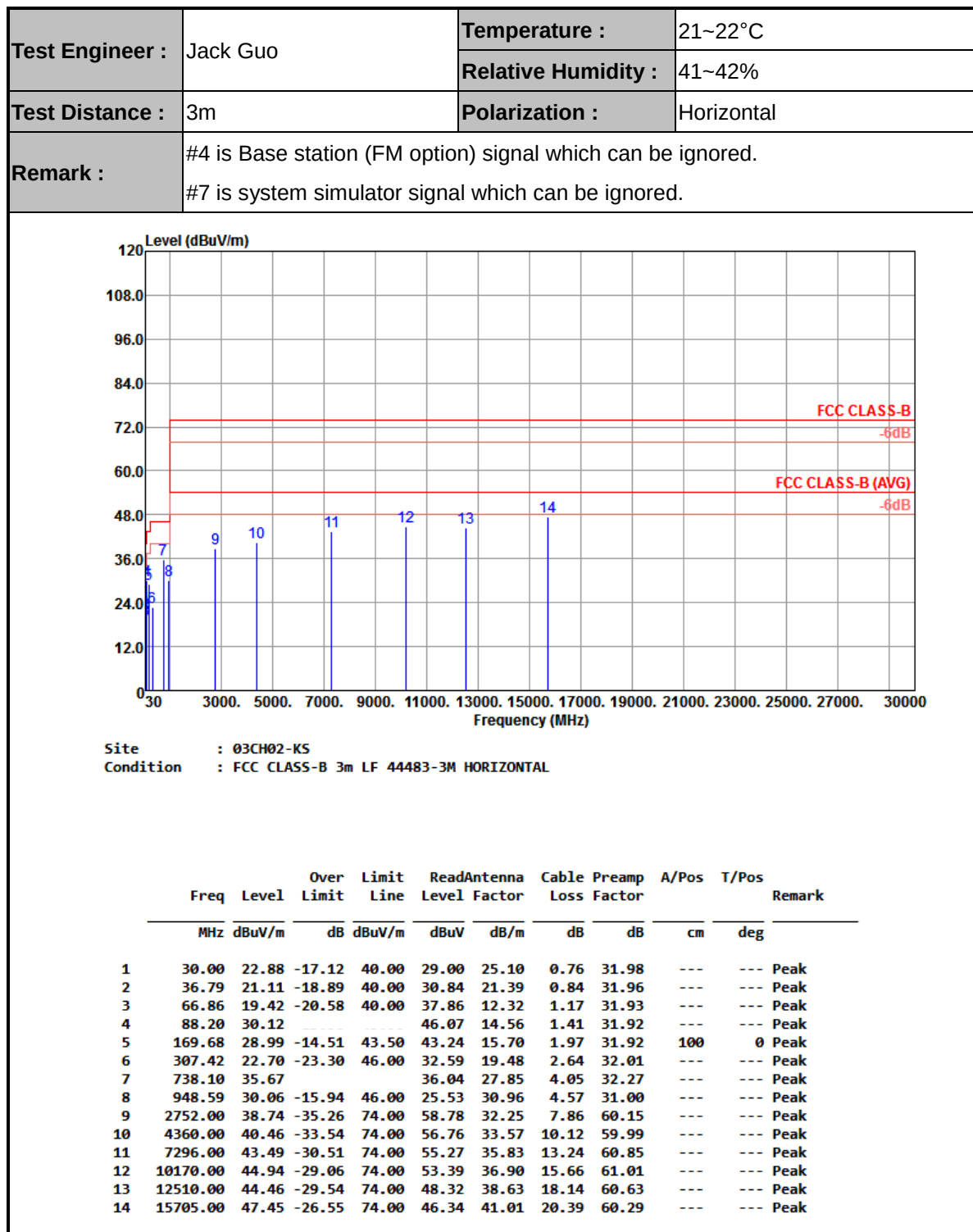


For radiated emissions above 1GHz



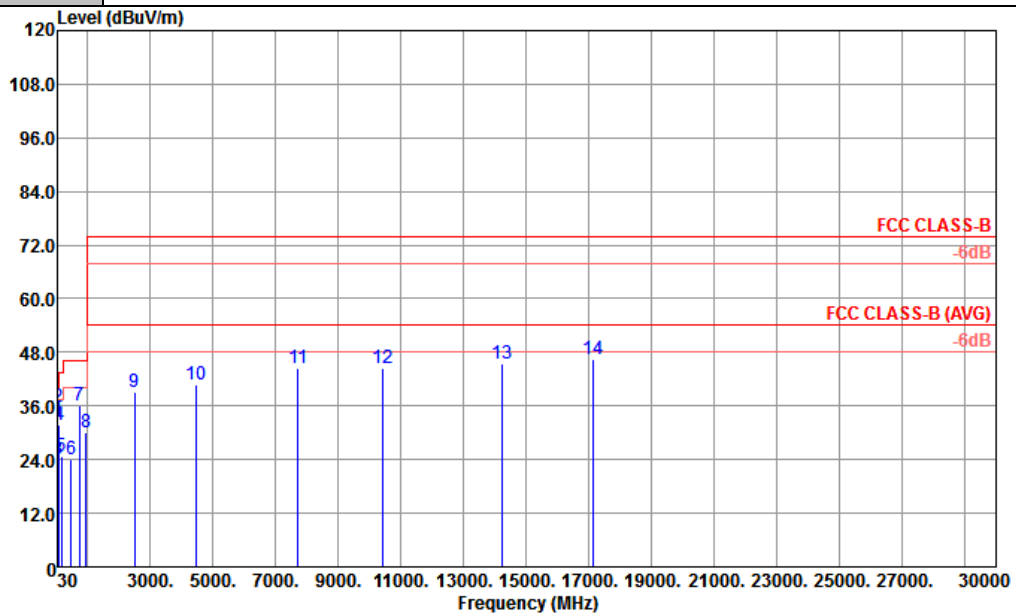


3.2.5. Test Result of Radiated Emission





Test Engineer :	Jack Guo	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#4 is Base station (FM option) signal which can be ignored. #7 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF 44483-3M VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	32.90	-7.10	40.00	39.02	25.10	0.76	31.98	---	---	Peak
2	42.61	35.91	-4.09	40.00	48.63	18.33	0.90	31.95	100	0	Peak
3	75.59	24.14	-15.86	40.00	41.68	13.10	1.27	31.91	---	---	Peak
4	88.20	31.79			47.74	14.56	1.41	31.92	---	---	Peak
5	167.74	24.72	-18.78	43.50	38.83	15.86	1.96	31.93	---	---	Peak
6	464.56	24.01	-21.99	46.00	29.65	23.36	3.23	32.23	---	---	Peak
7	741.01	35.96			36.23	27.94	4.06	32.27	---	---	Peak
8	952.47	30.16	-15.84	46.00	25.56	30.98	4.58	30.96	---	---	Peak
9	2496.00	39.20	-34.80	74.00	60.00	31.89	7.54	60.23	---	---	Peak
10	4440.00	40.87	-33.13	74.00	57.19	33.48	10.20	60.00	---	---	Peak
11	7712.00	44.41	-29.59	74.00	55.77	36.16	13.54	61.06	---	---	Peak
12	10413.00	44.44	-29.56	74.00	52.40	37.05	15.97	60.98	---	---	Peak
13	14229.00	45.57	-28.43	74.00	48.19	39.13	18.90	60.65	---	---	Peak
14	17127.00	46.55	-27.45	74.00	42.79	40.67	21.22	58.13	---	---	Peak

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) - Limit Line(dBμV/m)



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Jun. 20, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 18, 2019	Jun. 20, 2020	Oct. 17, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	Jun. 20, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	Jun. 20, 2020	Oct. 17, 2020	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 18, 2019	Jun. 16, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 18, 2019	Jun. 16, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Dec. 30, 2019	Jun. 16, 2020	Dec. 29, 2020	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 10, 2019	Jun. 16, 2020	Nov. 09, 2020	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jun. 16, 2020	Nov. 09, 2020	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Jun. 16, 2020	Jan. 07, 2021	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Aug. 06, 2019	Jun. 16, 2020	Aug. 05, 2020	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 18, 2019	Jun. 16, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jun. 16, 2020	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 16, 2020	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 16, 2020	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.9 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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