



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2211-1, XT2211-2, XT2211DL
FCC ID : IHDT56AA2
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Oct. 18, 2021 ~ Oct. 20, 2021

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.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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



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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 10.09 dB at 17.568 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.13 dB at 212.360 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	XT2211-1, XT2211-2, XT2211DL
FCC ID	IHDT56AA2
EUT supports Radios application	GSM/WCDMA/LTE 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 and GNSS
IMEI Code	Conduction: 359892580006440/358116610017479 Radiation: 359892580006499/358116610017479
HW Version	DVT2
SW Version	RRDE31.Q3-37
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. The different model name is for different market purpose.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 14 : 788 MHz ~ 798 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 30 : 2305 MHz ~ 2315 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 14 : 758 MHz ~ 768 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 29 : 717 MHz ~ 728 MHz LTE Band 30 : 2350 MHz ~ 2360 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 66 : 2110 MHz~ 2200 MHz LTE Band 71: 617 MHz ~ 652 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz



	5745 MHz ~ 5825 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz FM : 87.5 ~ 108MHz
Antenna Type	WWAN : PIFA Antenna WLAN : IFA Antenna Bluetooth : IFA Antenna GNSS: IFA Antenna FM : External Earphone Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSDPA/DC-HSDPA : QPSK HSUPA : QPSK HSPA+ : 16QAM 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 FM

1.5. Modification of EUT

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

1.6. 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 03CH04-KS	CN1257	314309



1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8. 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.

1.9. Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Salcomp)	Model Name	MC-101
AC Adapter 2	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 3	Brand Name	Motorola(Chenyang)	Model Name	MC-101
Battery	Brand Name	Motorola(ATL)	Model Name	MD50
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D22297
USB Cable 2	Brand Name	Motorola (Cabletech)	Model Name	SC18D22298
USB Cable 3	Brand Name	Motorola (Luxshare)	Model Name	SC18D22299
Earphone	Brand Name	Motorola (NLD)	Model Name	NLD-EM313A-05SF



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.

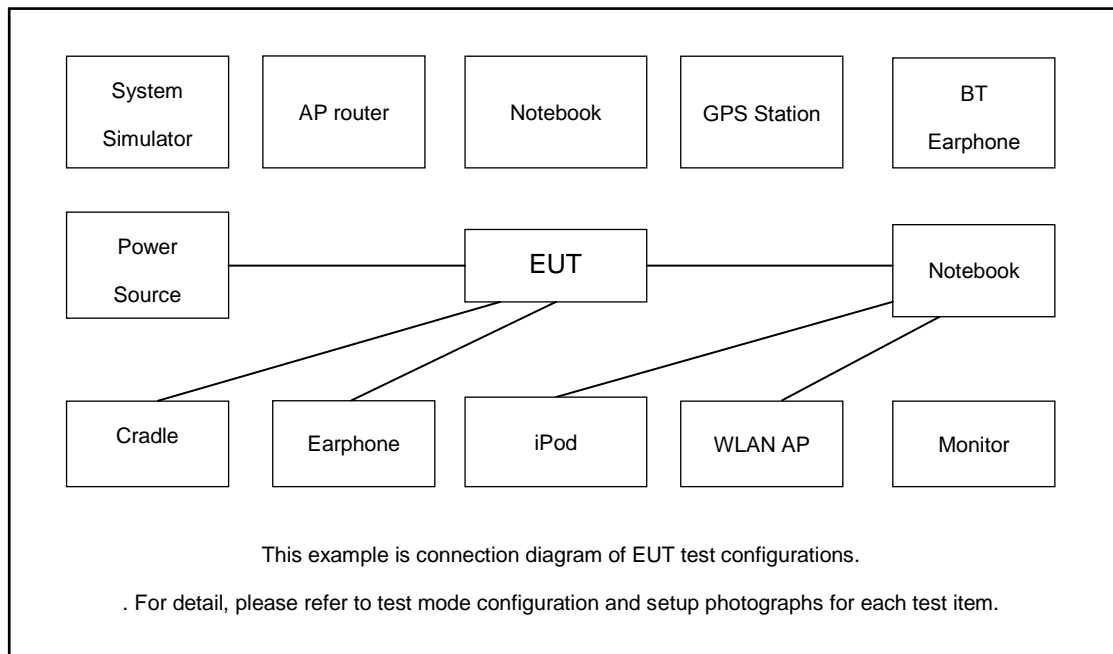
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM850 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(2.4G) + Camera(Rear) + USB Cable 1(Charging from Adapter 1) + Earphone
	Mode 2: WCDMA 1900 Rx + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + USB Cable 2(Charging from Adapter 2) + Earphone
	Mode 3: WCDMA850 Rx(Low)+ Bluetooth Idle+ WLAN Idle(2.4G) + MPEG4 + USB Cable 3(Charging from Adapter 3) + Earphone
	Mode 4: LTE Band 13 Rx(High)+ Bluetooth Idle + WLAN Idle(5G) + FM Rx(98) + USB Cable 3(Charging from Adapter 3) + Earphone
	Mode 5: LTE Band 14 Rx(High)+ Bluetooth Idle+ WLAN Idle(2.4G) +GNSS Rx + USB Cable 3(Charging from Adapter 3) + Earphone
	Mode 6: LTE Band 26 Rx(Low)+ Bluetooth Idle+ WLAN Idle(5G)+ GNSS Rx + USB Cable 1(Data Link with Notebook) + Earphone
	Mode 7: LTE Band 12 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(2.4G) +GNSS Rx + USB Cable 2(Data Link with Notebook) + Earphone
	Mode 8: LTE Band 71 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(5G) +GNSS Rx + USB Cable 3(Data Link with Notebook) + Earphone



Radiated Emissions	<p>Mode 1 : GSM850 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(2.4G) + Camera(Rear) + USB Cable 1(Charging from Adapter 1) + Earphone</p> <p>Mode 2 : WCDMA 1900 Rx + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + USB Cable 2(Charging from Adapter 2) + Earphone</p> <p>Mode 3 : WCDMA850 Rx(Low)+ Bluetooth Idle+ WLAN Idle(2.4G) + MPEG4 + USB Cable 3(Charging from Adapter 3) + Earphone</p> <p>Mode 4 : LTE Band 13 Rx(High)+ Bluetooth Idle + WLAN Idle(5G)+ FM Rx(98) + USB Cable 3(Charging from Adapter 3)+ Earphone</p> <p>Mode 5 : LTE Band 14 Rx(High)+ Bluetooth Idle+ WLAN Idle(2.4G) +GNSS Rx + USB Cable 3(Charging from Adapter 3) + Earphone</p> <p>Mode 6 : LTE Band 26 Rx(Low)+ Bluetooth Idle+ WLAN Idle(5G)+ GNSS Rx + USB Cable 1(Data Link with Notebook) + Earphone</p> <p>Mode 7 : LTE Band 12 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(2.4G) +GNSS Rx + USB Cable 2(Data Link with Notebook) + Earphone</p> <p>Mode 8 : LTE Band 71 Rx(Middle)+ Bluetooth Idle+ WLAN Idle(5G) +GNSS Rx + USB Cable 3(Data Link with Notebook) + Earphone</p>
<p>Remark:</p> <ol style="list-style-type: none"> 1. The worst case of AC is mode 3; only the test data of this mode is reported. 2. The worst case of RE is mode 7; 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.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8m
2.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
3.	Signal Generator	R&S	SMBV100A	N/A	N/A	Unshielded, 1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
5.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded, 1.8m
6.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
7.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
8.	Notebook	Lenovo	S730-13IWL	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
10.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	N/A
11.	SD Card	Kingston	8GB	N/A	N/A	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized 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 MPEG4 function.
4. Turn on FM function to make the EUT receive continuous signals from FM station.
5. Turn on GNSS function to make the EUT receive continuous signals from GNSS 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.

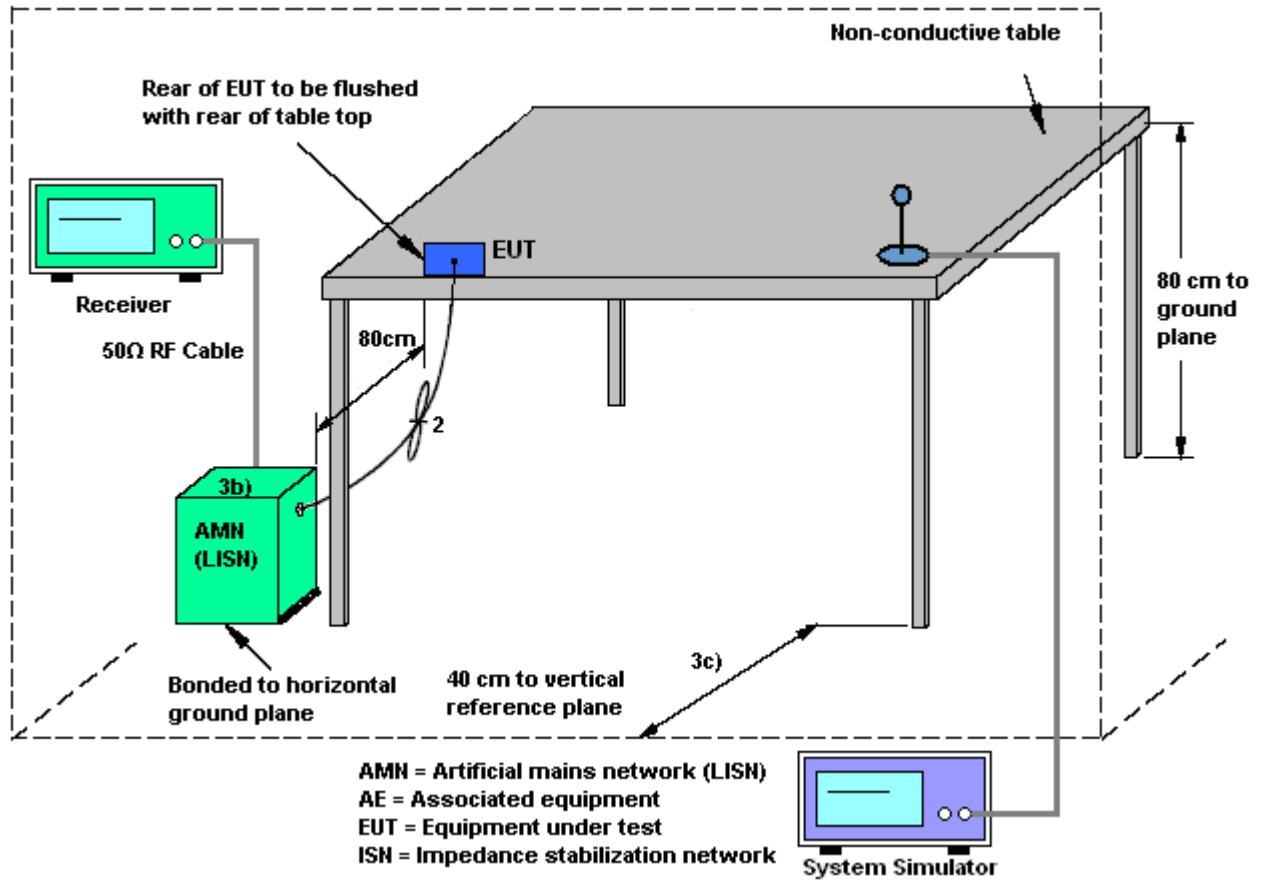
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

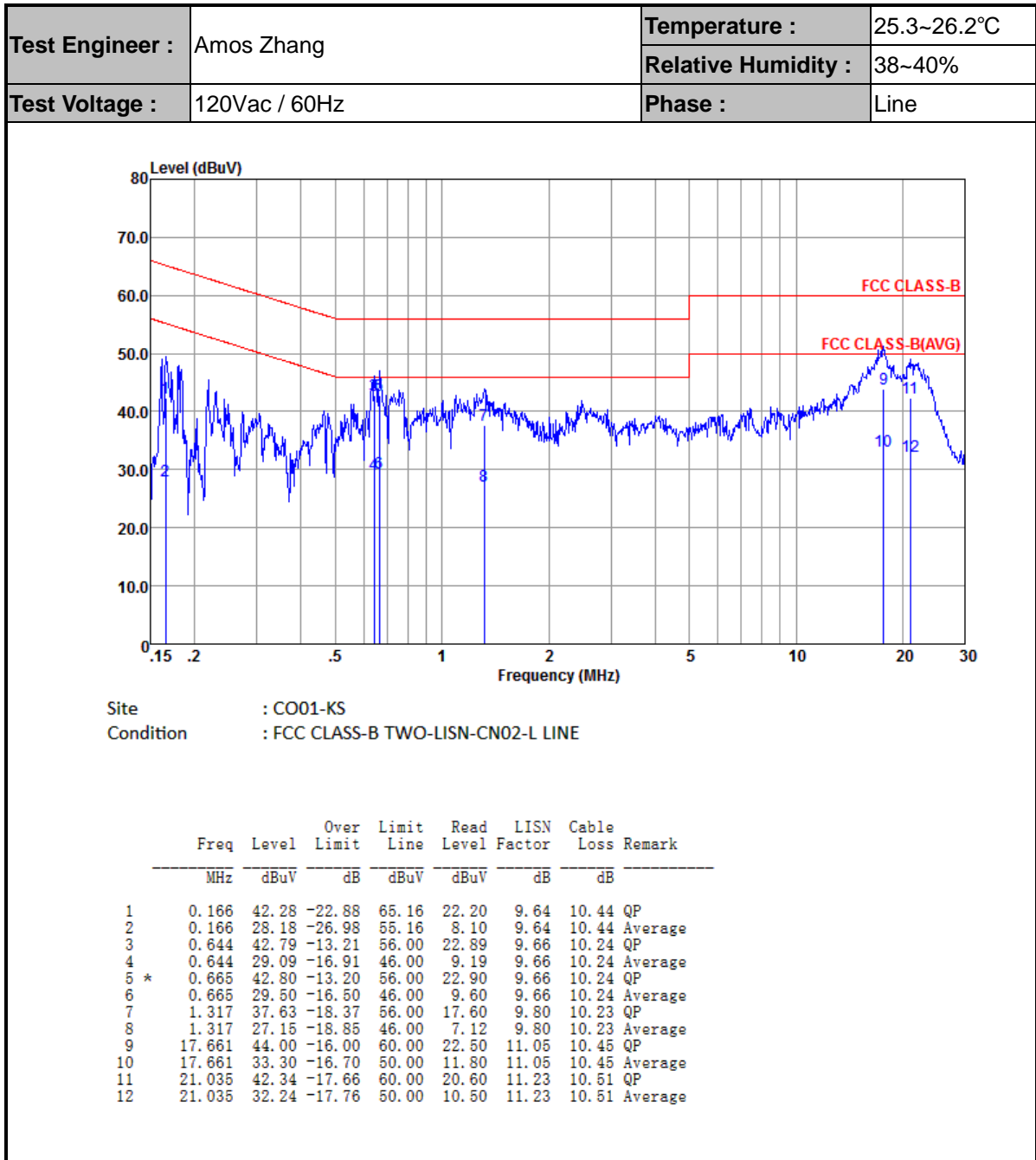
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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



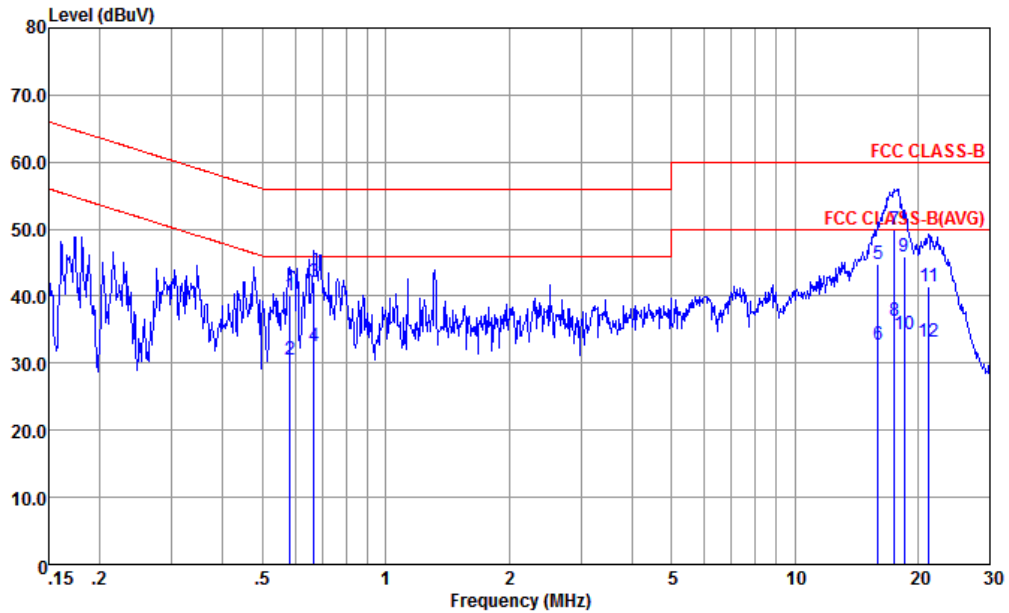


3.1.5 Test Result of AC Conducted Emission





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
 Condition : FCC CLASS-B TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.582	40.16	-15.84	56.00	20.19	9.73	10.24	QP
2	0.582	30.56	-15.44	46.00	10.59	9.73	10.24	Average
3	0.668	42.16	-13.84	56.00	22.19	9.73	10.24	QP
4	0.668	32.56	-13.44	46.00	12.59	9.73	10.24	Average
5	15.970	44.84	-15.16	60.00	23.29	11.13	10.42	QP
6	15.970	32.84	-17.16	50.00	11.29	11.13	10.42	Average
7 *	17.568	49.91	-10.09	60.00	28.20	11.26	10.45	QP
8	17.568	36.31	-13.69	50.00	14.60	11.26	10.45	Average
9	18.524	46.00	-14.00	60.00	24.20	11.33	10.47	QP
10	18.524	34.30	-15.70	50.00	12.50	11.33	10.47	Average
11	21.260	41.36	-18.64	60.00	19.30	11.54	10.52	QP
12	21.260	33.26	-16.74	50.00	11.20	11.54	10.52	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- 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.

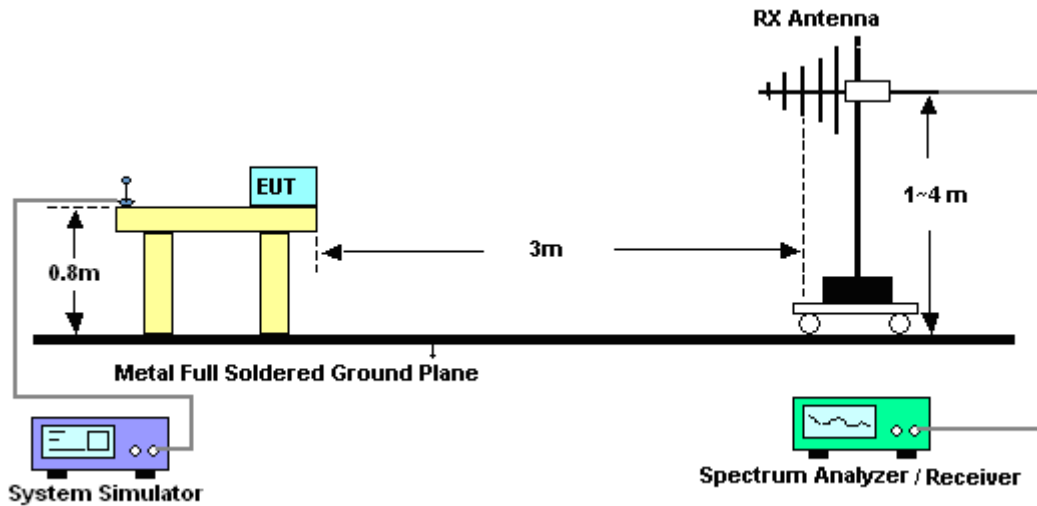
3.2.3. Test Procedures

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

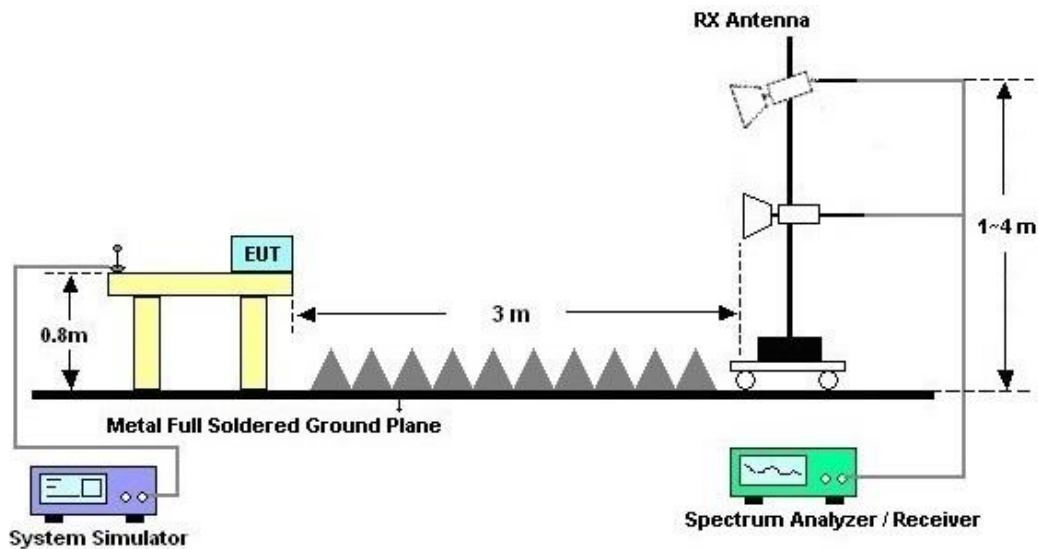
- Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



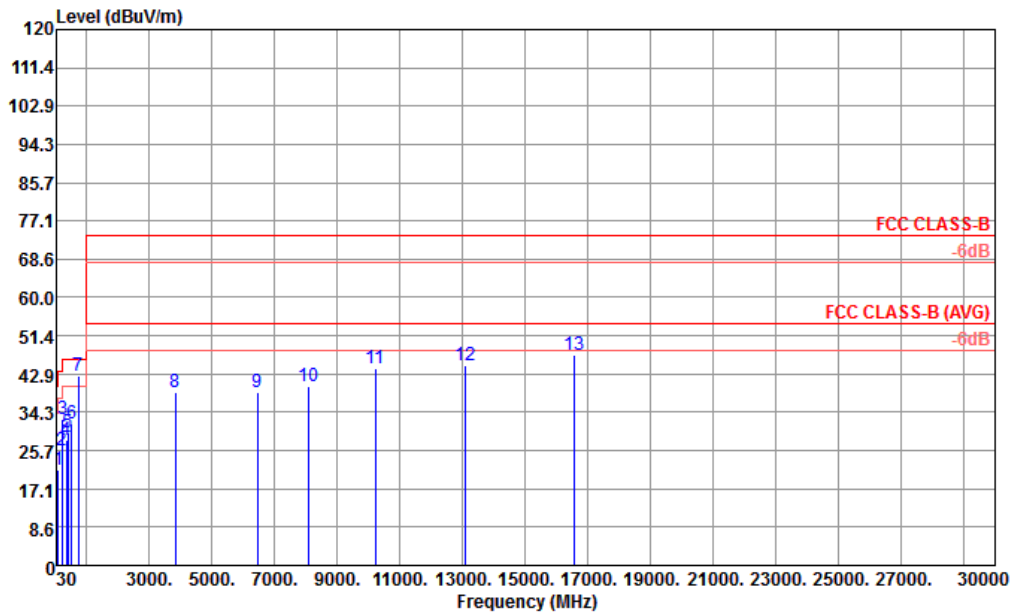
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Chris Wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

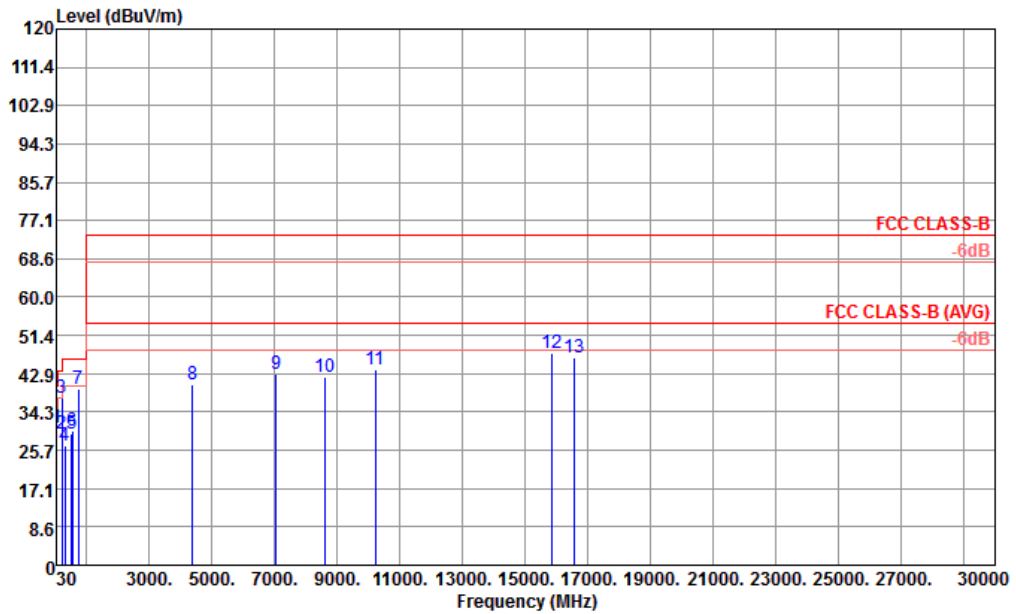


Site : 03CH04-KS
 Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	96.93	21.54	-21.96	43.50	37.35	15.71	1.46	32.98	---	---	Peak
2	216.24	25.70	-20.30	46.00	41.16	15.26	2.15	32.87	---	---	Peak
3	232.73	32.88	-13.12	46.00	46.75	16.73	2.23	32.83	---	---	Peak
4	359.80	28.07	-17.93	46.00	37.19	20.80	2.78	32.70	---	---	Peak
5	408.30	29.87	-16.13	46.00	37.08	22.11	2.96	32.28	---	---	Peak
6	513.06	31.73	-14.27	46.00	36.64	24.36	3.33	32.60	---	---	Peak
7 !	737.13	42.53			43.30	27.82	3.98	32.57	---	---	Peak
8	3824.00	38.67	-35.33	74.00	60.45	34.52	7.04	63.34	---	---	Peak
9	6440.00	38.64	-35.36	74.00	57.60	35.54	9.43	63.93	---	---	Peak
10	8080.00	39.96	-34.04	74.00	56.56	36.74	10.62	63.96	---	---	Peak
11	10206.00	44.24	-29.76	74.00	54.98	37.89	15.46	64.09	---	---	Peak
12	13095.00	44.70	-29.30	74.00	51.33	38.82	17.22	62.67	---	---	Peak
13	16551.00	47.10	-26.90	74.00	48.93	40.54	19.49	61.86	---	---	Peak



Test Engineer :	Chris Wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH04-KS
 Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL

	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	49.40	30.63	-9.37	40.00	47.83	14.89	1.01	33.10	---	---	Peak
2	200.72	29.45	-14.05	43.50	45.16	15.11	2.08	32.90	---	---	Peak
3	212.36	37.37	-6.13	43.50	52.90	15.22	2.13	32.88	---	---	Peak
4	306.45	26.60	-19.40	46.00	37.28	19.47	2.56	32.71	---	---	Peak
5	514.03	29.37	-16.63	46.00	34.26	24.38	3.34	32.61	---	---	Peak
6	531.49	29.97	-16.03	46.00	34.44	24.88	3.40	32.75	---	---	Peak
7	737.13	39.32			40.09	27.82	3.98	32.57	---	---	Peak
8	4376.00	40.58	-33.42	74.00	59.47	34.54	9.76	63.19	---	---	Peak
9	7048.00	42.88	-31.12	74.00	57.44	36.76	12.50	63.82	---	---	Peak
10	8624.00	42.16	-31.84	74.00	55.19	36.66	13.83	63.52	---	---	Peak
11	10224.00	43.69	-30.31	74.00	54.42	37.89	15.47	64.09	---	---	Peak
12	15867.00	47.35	-26.65	74.00	50.62	40.46	19.01	62.74	---	---	Peak
13	16569.00	46.53	-27.47	74.00	48.33	40.54	19.50	61.84	---	---	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	ESC17	100768	9kHz~7GHz;	Apr. 21, 2021	Oct. 20, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2021	Oct. 20, 2021	Oct. 16, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2021	Oct. 20, 2021	Oct. 16, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2021	Oct. 20, 2021	Oct. 16, 2022	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 13, 2021	Oct. 18, 2021	Jul. 12, 2022	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Oct. 18, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Oct. 18, 2021	May 29, 2022	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2021	Oct. 18, 2021	Apr. 23, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Oct. 18, 2021	Nov. 09, 2021	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz~3000MHz	Nov. 02, 2020	Oct. 18, 2021	Nov. 01, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Oct. 18, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Oct. 18, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5G Hz	Oct. 14, 2021	Oct. 18, 2021	Oct. 13, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 18, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 18, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 18, 2021	NCR	Radiation (03CH04-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..9dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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