



# FCC Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2551-7  
**FCC ID** : IHDT56AU1  
**STANDARD** : 47 CFR Part 15 Subpart B  
**CLASSIFICATION** : Certification  
**TEST DATE(S)** : Jul. 08, 2025 ~ Jul. 12, 2025

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**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 9.63 dB at 0.159 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.53 dB at 92.81 MHz

**Note:**

This is a variant report for XT2551-7. The change note could be referred to the XT2551-7\_Operational Description of Product Equality Declaration which is exhibit separately. Based on the similarity between current and previous project, only the related test cases from original test report (Sporton Report Number FC4N2802) were verified for the differences.

<b>Conformity Assessment Condition:</b>
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".
<b>Disclaimer:</b>
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 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	XT2551-7
FCC ID	IHDT56AU1
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 2.4GHz 802.11be EHT20/ EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE GNSS/NFC/WPT/UWB
IMEI Code	Conduction/Radiation: 350200470004179/350200470004187
HW Version	PVT
SW Version	V2VL35.42-126
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.





	<p>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 42 : 3450 MHz ~ 3600 MHz  LTE Band 43 : 3600 MHz ~ 3700 MHz  LTE Band 48 : 3550 MHz ~ 3700 MHz  LTE Band 66 : 2110 MHz~ 2200 MHz  LTE Band 71 : 617 MHz ~ 652 MHz  5G NR n2 : 1930 MHz ~ 1990 MHz  5G NR n5 : 869 MHz ~ 894 MHz  5G NR n7 : 2620 MHz ~ 2690 MHz  5G NR n12 : 729 MHz ~ 746 MHz  5G NR n14 : 758 MHz ~ 768 MHz  5G NR n25 : 1930 MHz ~ 1995 MHz  5G NR n26 : 859 MHz ~ 894 MHz  5G NR n29 : 717 MHz ~ 728 MHz  5G NR n30 : 2350 MHz ~ 2360 MHz  5G NR n38: 2570 MHz ~ 2620 MHz  5G NR n41 : 2496 MHz ~ 2690 MHz  5G NR n48 : 3550 MHz ~ 3700 MHz  5G NR n66 : 2110 MHz~ 2200 MHz  5G NR n70 : 1995 MHz ~ 2020 MHz  5G NR n71 : 617 MHz ~ 652 MHz  5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz;  5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz;  802.11b/g/n/ax/be: 2400 MHz ~ 2483.5 MHz  802.11a/n/ac/ax/be: 5150 MHz ~ 5250 MHz;  5250 MHz ~ 5350 MHz;  5470 MHz ~ 5725 MHz  5725 MHz ~ 5850 MHz  802.11a/ax/be: 5925 MHz ~ 7125 MHz  Bluetooth: 2400 MHz ~ 2483.5 MHz  NFC : 13.56 MHz  GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz  WPT: 110kHz~ 148 kHz  UWB: 6489.6 MHz &amp; 7987.2 MHz</p>
<b>Antenna Type</b>	<p>Ant 0/1/2/3/4 : WWAN : IFA Antenna  Ant 5: WWAN/WLAN 5G/6G: Loop Antenna  Ant 6 : WLAN2.4G/Bluetooth/UWB : IFA Antenna  Ant 7 : WLAN2.4G/5G/6G/Bluetooth : IFA Antenna  Ant 8 : WWAN/UWB: IFA Antenna</p>



	Ant 5 : GNSS: Loop Antenna Ant 6 : GNSS: IFA Antenna NFC: Coil Antenna WPT: Coil Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM(16QAM not support uplink) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK WPT: ASK UWB: BPM-BPSK

### 1.5. Modification of EUT

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

### 1.6. Test Location

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

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



### 1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a1
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

Accessories Information				
Battery 1	Brand Name	Motorola(ATL)	Model Name	RS13
Battery 2	Brand Name	Motorola(ATL)	Model Name	RS35

## 2. Test Configuration of Equipment Under Test

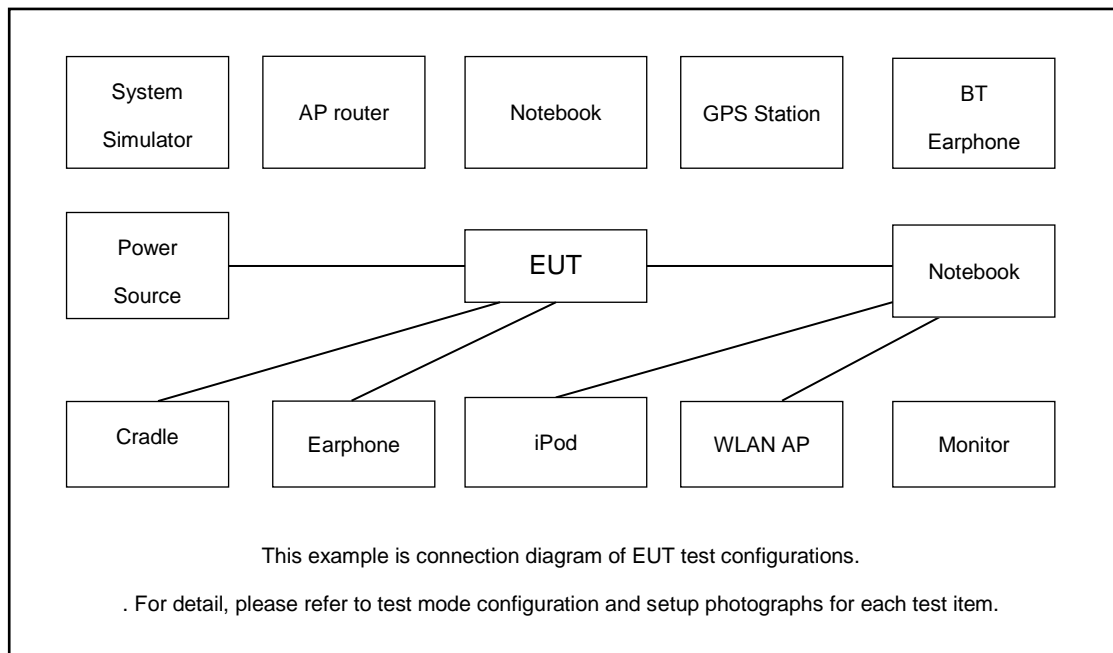
### 2.1. Test Mode

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 : LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery + UWB Link + USB Cable 2(Data Link with Notebook) + SIM1 + EUT (eMMC) USB Data Link to PC/NB + Open status Mode 2 : :LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + NFC On + Battery + UWB Link + USB Cable3(Charging from Adapter1 + SIM1+ Open status
Radiated Emissions	Mode 1 : :LTE Band 5 Rx(High) + Bluetooth Idle + WLAN (6G) Idle + NFC On + Battery + UWB Idle + USB Cable3(Charging from Adapter 2 ) + ESIM + Open status
<b>Remark:</b> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 1; only the test data of this mode is reported.</li> <li>2. Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> <li>3. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.</li> </ol>	

### 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	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	thinkplus-BH3	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.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	WLAN AP	D-Link	G415	N/A	N/A	N/A
6.	Signal Generator	R&S	SMBV100A	258305	N/A	N/A
7.	Hard Disk	Lenovo	F310	DoC	N/A	Shielded, 1.2m
8.	NFC Card	N/A	N/A	N/A	N/A	N/A
9.	Adapter 1	MOTO	MC-681N	N/A	N/A	N/A
10.	Adapter 2	MOTO	MC-681N	N/A	N/A	N/A
11.	USB Cable 2	MOTO	SC18E08104	N/A	N/A	N/A
12.	USB Cable 3	MOTO	SC18D86731	N/A	N/A	N/A

### 2.4. EUT Operation Test Setup

The EUT was in 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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Turn on NFC function



### 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.

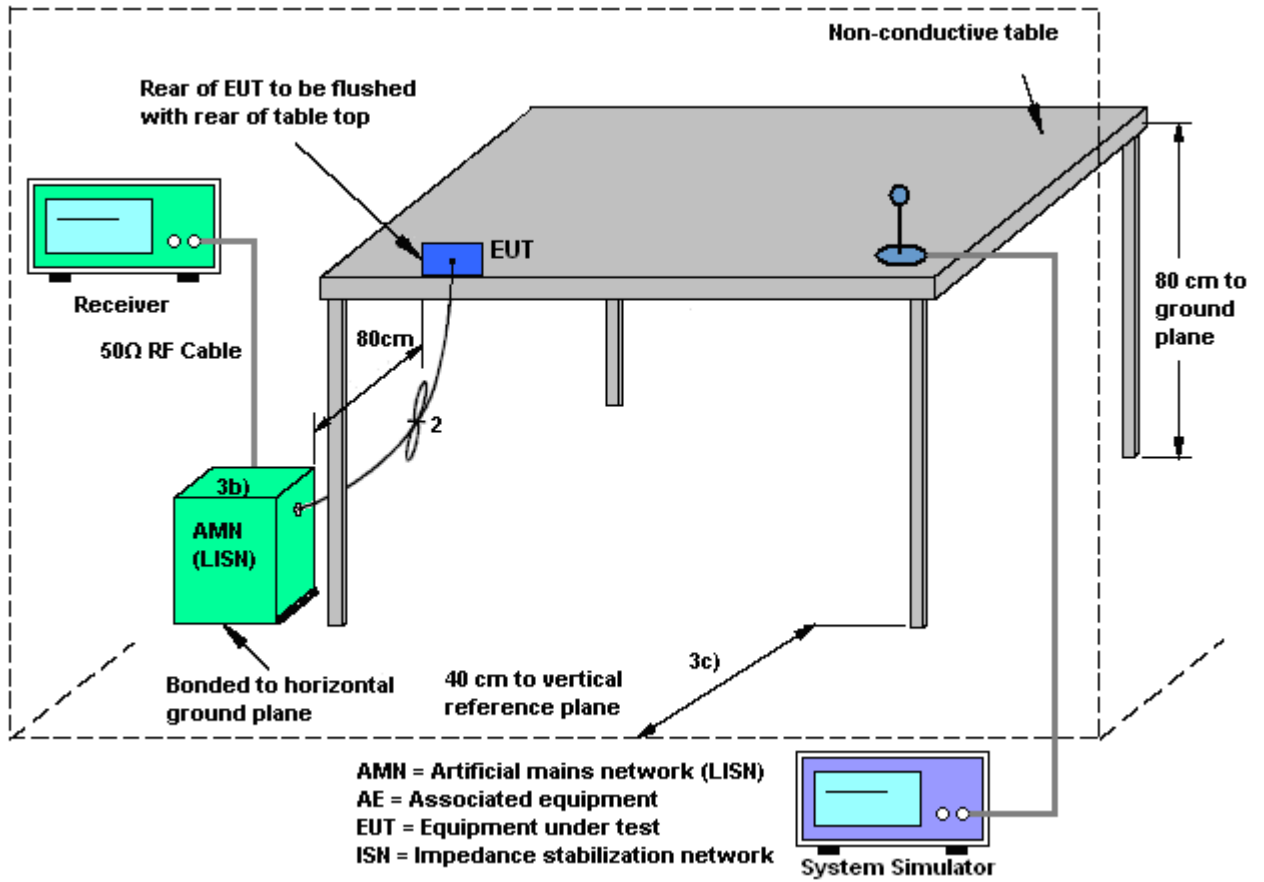
##### 3.1.2. Measuring Instruments

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.

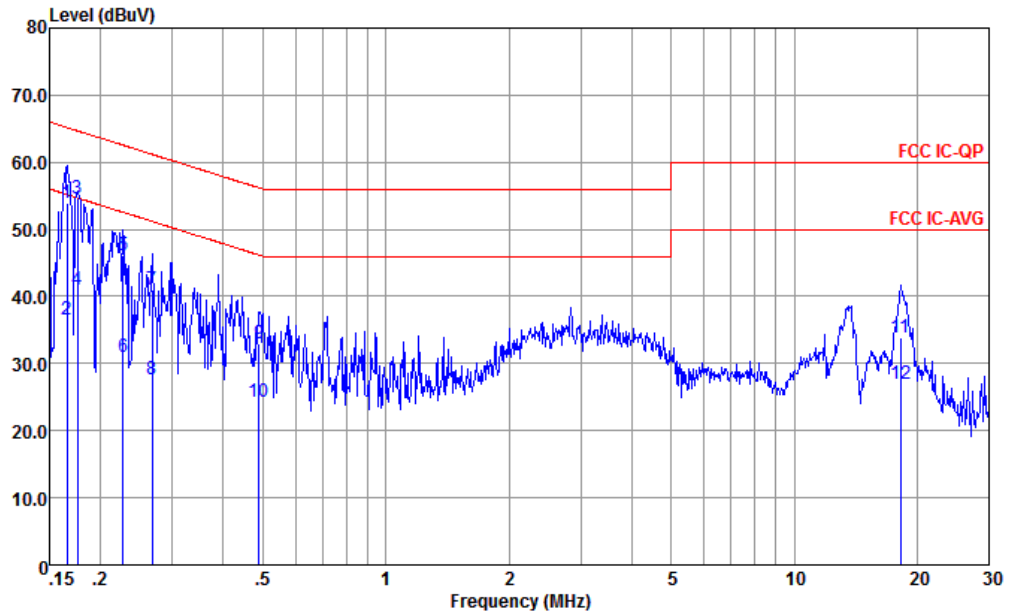
### 3.1.4. Test Setup





3.1.5. Test Result of AC Conducted Emission

Test Engineer :	Amos	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.		

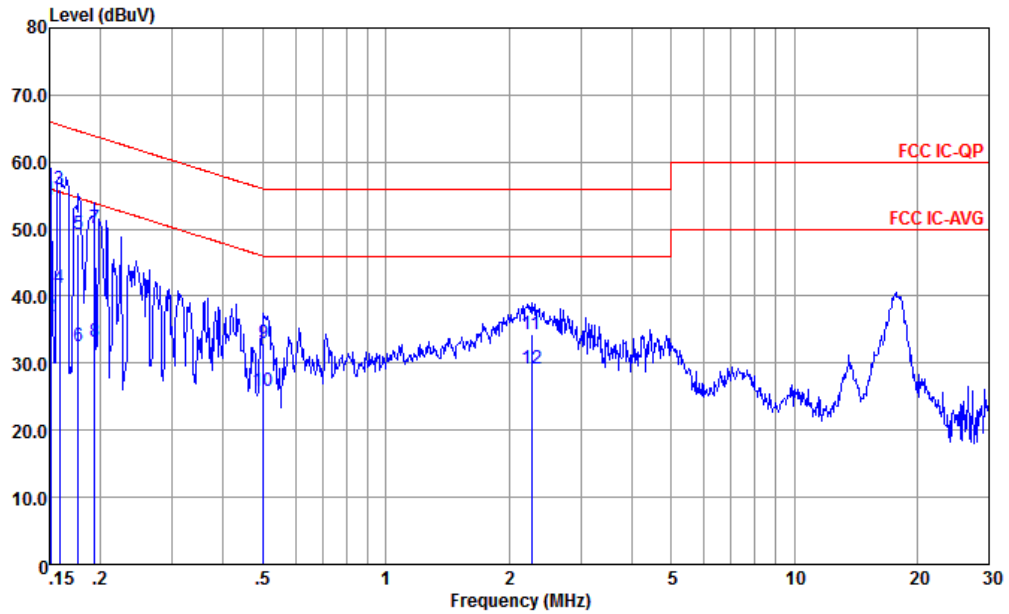


Site : CO01-KS  
 Condition : FCC IC-QP LISN-060105-L 24+80 LINE

#18								
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.166	54.00	-11.16	65.16	43.30	0.25	10.45	QP
2	0.166	36.60	-18.56	55.16	25.90	0.25	10.45	Average
3 *	0.176	54.51	-10.17	64.68	43.80	0.25	10.46	QP
4	0.176	41.01	-13.67	54.68	30.30	0.25	10.46	Average
5	0.227	46.23	-16.34	62.57	35.49	0.27	10.47	QP
6	0.227	31.03	-21.54	52.57	20.29	0.27	10.47	Average
7	0.267	40.97	-20.23	61.20	30.21	0.29	10.47	QP
8	0.267	27.67	-23.53	51.20	16.91	0.29	10.47	Average
9	0.489	32.98	-23.21	56.19	22.20	0.36	10.42	QP
10	0.489	24.38	-21.81	46.19	13.60	0.36	10.42	Average
11	18.232	33.84	-26.16	60.00	22.50	1.05	10.29	QP
12	18.232	26.94	-23.06	50.00	15.60	1.05	10.29	Average



Test Engineer :	Amos	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 IC-QP LISN-060105-N 24+80 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.151	54.28	-11.68	65.96	43.60	0.23	10.45	QP
2	0.151	36.98	-18.98	55.96	26.30	0.23	10.45	Average
3 *	0.159	55.89	-9.63	65.52	45.20	0.24	10.45	QP
4	0.159	41.19	-14.33	55.52	30.50	0.24	10.45	Average
5	0.177	49.30	-15.34	64.64	38.59	0.25	10.46	QP
6	0.177	32.60	-22.04	54.64	21.89	0.25	10.46	Average
7	0.193	50.20	-13.69	63.89	39.50	0.24	10.46	QP
8	0.193	33.30	-20.59	53.89	22.60	0.24	10.46	Average
9	0.502	32.95	-23.05	56.00	22.20	0.34	10.41	QP
10	0.502	25.95	-20.05	46.00	15.20	0.34	10.41	Average
11	2.273	34.43	-21.57	56.00	23.81	0.39	10.23	QP
12	2.273	29.23	-16.77	46.00	18.61	0.39	10.23	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.

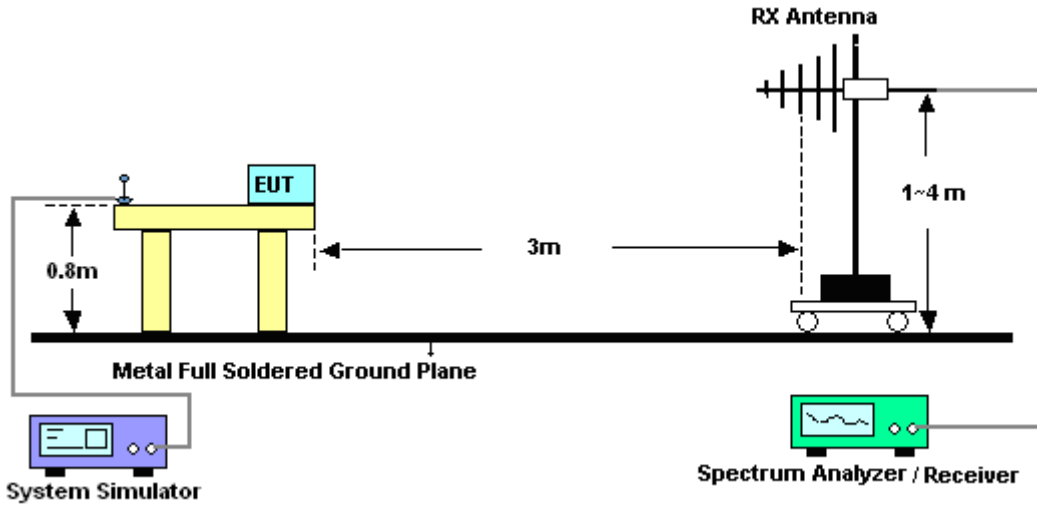


### **3.2.3. Test Procedures**

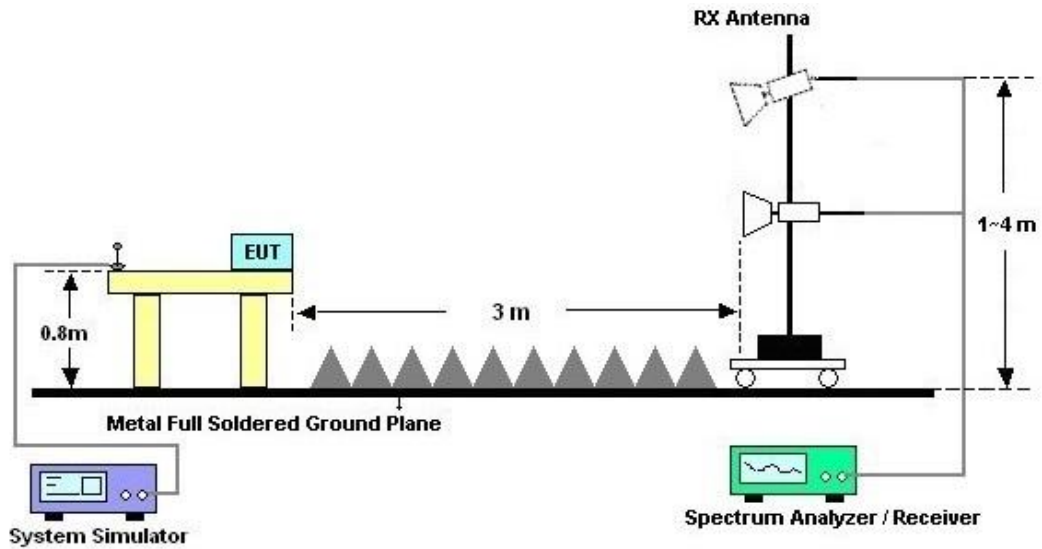
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. 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



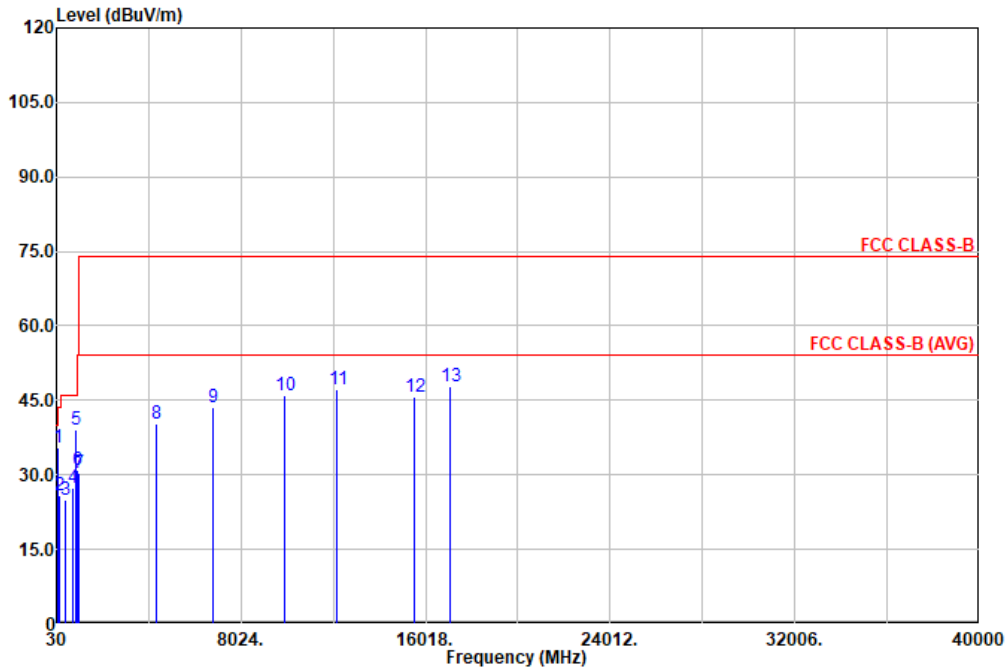
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Monn He	Temperature :	21~22°C
		Relative Humidity :	45~47%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

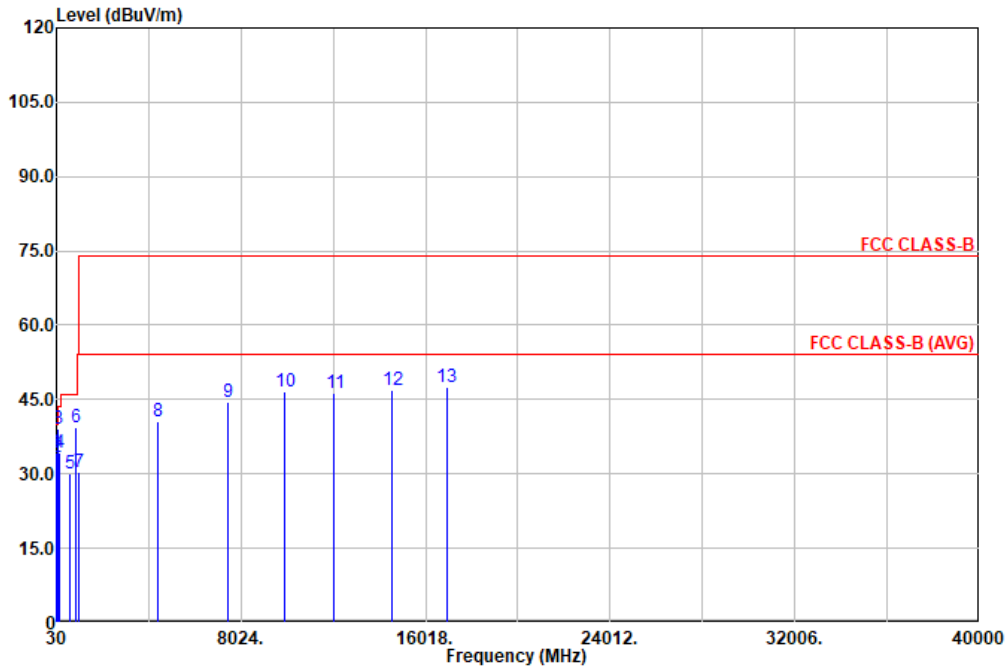


Site : 03CH02-KS  
 Condition: FCC CLASS-B 3m 3117 SN 00251694 Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	95.48	35.50	43.50	-8.00	51.63	15.54	1.00	32.67	---	---	Peak
2	169.68	25.75	43.50	-17.75	41.31	15.79	1.38	32.73	---	---	Peak
3	421.15	24.86	46.00	-21.14	33.13	22.58	2.19	33.04	---	---	Peak
4	729.13	27.38	46.00	-18.62	30.01	27.78	2.81	33.22	---	---	Peak
5	891.60	39.16	46.00			28.95	3.10	32.38	---	---	Peak
6	918.76	31.02	46.00	-14.98	30.39	29.54	3.17	32.08	---	---	Peak
7	981.09	30.40	54.00	-23.60	27.84	30.60	3.30	31.34	---	---	Peak
8	4366.00	40.18	74.00	-33.82	63.05	34.10	7.06	64.03	---	---	Peak
9	6805.50	43.49	74.00	-30.51	63.04	35.62	8.93	64.10	---	---	Peak
10	9912.25	45.94	74.00	-28.06	60.01	37.29	11.01	62.37	---	---	Peak
11	12190.25	47.20	74.00	-26.80	57.22	38.68	12.32	61.02	---	---	Peak
12	15543.50	45.57	74.00	-28.43	54.53	40.18	13.76	62.90	---	---	Peak
13	17075.63	47.68	74.00	-26.32	55.67	41.11	14.37	63.47	---	---	Peak



Test Engineer :	Monn He	Temperature :	21~22°C
		Relative Humidity :	45~47%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS  
 Condition: FCC CLASS-B 3m 3117 SN 00251694 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	32.43	34.37	40.00	-5.63	42.93	23.87	0.36	32.79	---	---	Peak
2	51.58	33.32	40.00	-6.68	51.87	13.59	0.60	32.74	---	---	Peak
3	92.81	38.97	43.50	-4.53	55.43	15.22	1.00	32.68	100	193	Peak
4	167.01	34.15	43.50	-9.35	49.48	16.05	1.35	32.73	---	---	Peak
5	629.70	30.10	46.00	-15.90	34.47	26.29	2.63	33.29	---	---	Peak
6	891.12	39.28			39.62	28.95	3.09	32.38	---	---	Peak
7	969.45	30.28	54.00	-23.72	27.84	30.64	3.26	31.46	---	---	Peak
8	4408.50	40.49	74.00	-33.51	63.34	34.08	7.11	64.04	---	---	Peak
9	7453.63	44.61	74.00	-29.39	63.81	35.65	9.18	64.03	---	---	Peak
10	9935.63	46.68	74.00	-27.32	60.88	37.26	11.04	62.50	---	---	Peak
11	12069.13	46.32	74.00	-27.68	56.41	38.63	12.21	60.93	---	---	Peak
12	14576.63	47.01	74.00	-26.99	56.57	39.38	13.53	62.47	---	---	Peak
13	16920.50	47.52	74.00	-26.48	55.63	41.05	14.31	63.47	---	---	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 Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Dec. 03, 2024	Jul. 08, 2025	Dec. 02, 2025	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Dec. 03, 2024	Jul. 08, 2025	Dec. 02, 2025	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz-1GHz	Aug. 18, 2024	Jul. 08, 2025	Aug. 17, 2025	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 05, 2025	Jul. 08, 2025	Mar. 04, 2026	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 22, 2024	Jul. 08, 2025	Oct. 21, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Jul. 08, 2025	Jan. 02, 2026	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 02, 2025	Jul. 08, 2025	Jan. 01, 2026	Radiation (03CH02-KS)
Amplifier	EM	EM01G18G	060840	1Ghz-18Ghz	Oct. 09, 2024	Jul. 08, 2025	Oct. 08, 2025	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jul. 08, 2025	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 08, 2025	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 08, 2025	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 16, 2025	Jul. 12, 2025	Apr. 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Jul. 12, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Jul. 12, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Jul. 12, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required



## 5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 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))	6.18 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))	4.90 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))	5.30 dB
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