FCC Test Report

APPLICANT	:	Nokia Shanghai Bell Co., Ltd.
EQUIPMENT	:	NOKIA ONT
BRAND NAME	:	NOKIA
MODEL NAME	:	XS-2437X-B
FCC ID	:	2ADZRXS2437XB
STANDARD	:	47 CFR Part 15 Subpart B
CLASSIFICATION	:	Certification
TEST DATE(S)	:	Oct. 25, 2024 ~ Oct. 31, 2024

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

ACCREDITED
Cert #5145.02

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

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC462802	Rev. 01	Initial issue of report	Dec. 06, 2024

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 8.53 dB at 0.150 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.15 dB at 49.40 MHz for Quasi-Peak

Conformity Assessment Condition:
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”.
Disclaimer:
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

Nokia Shanghai Bell Co., Ltd.
No.388, Ningqiao Rd, Pilot Free Trade Zone, Shanghai, 201206 P.R. China

1.2. Manufacturer

Nokia of America Corporation
2301 Sugar Bush Rd. Raleigh, NC 27612

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	NOKIA ONT
Brand Name	NOKIA
Model Name	XS-2437X-B
Part Number	3TN00958xxxx, 3TN00961xxxx (x can be A-Z or blank)
FCC ID	2ADZRXS2437XB
EUT supports Radios application	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 802.11ax (HE20/HE40/HE80/HE160) WLAN 6GHz 802.11be (EHT20/EHT40/EHT80/EHT160/EHT320)
SN Code	Conduction/ Radiation: D8B020FD6AB0
EUT Stage	Production Unit

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. Part Number are for marketing purpose only, 3TN00958xxxx are identical to 3TN00961xxxx except a power adapter is added to the unit.
3. There are two Samples under test, Sample 1 is 1st antenna (Inpaq) and Sample 2 is 2nd antenna (AOT). According to the difference, we choose sample 1 to full test, Sample 2 is verified the worst case.

Power Adapter				
AC Adapter 1 US	**Brand Name**	ShenZhen SOY	**Model Name**	SOY-1200400US-433
	Power Rating	I/P: 100-240 Vac, 12000mA , O/P: 12Vdc,4000mA		
AC Adapter 2 US	**Brand Name**	MOSO	**Model Name**	MS-V4000R120-050A0-US
	Power Rating	I/P: 100-240 Vac, 13000mA , O/P: 12Vdc,4000mA		

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	WLAN 802.11b/g/n/ax/be: 2400 MHz - 2483.5 MHz WLAN 802.11a/n/ac/ax/be: 5150 MHz - 5250 MHz; 5250 MHz - 5350 MHz; 5470 MHz - 5725 MHz; 5725 MHz - 5850 MHz 802.11ax/be: 5925 MHz - 7125 MHz
Rx Frequency	WLAN 802.11b/g/n/ax/be: 2400 MHz - 2483.5 MHz WLAN 802.11a/n/ac/ax/be: 5150 MHz - 5250 MHz; 5250 MHz - 5350 MHz; 5470 MHz - 5725 MHz; 5725 MHz - 5850 MHz 802.11ax/be: 5925 MHz - 7125 MHz
Antenna Type	Dipole Antenna
Type of Modulation	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)

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 03CH04-KS	CN1257	314309

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	210616
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.

2. Test Configuration of Equipment Under Test

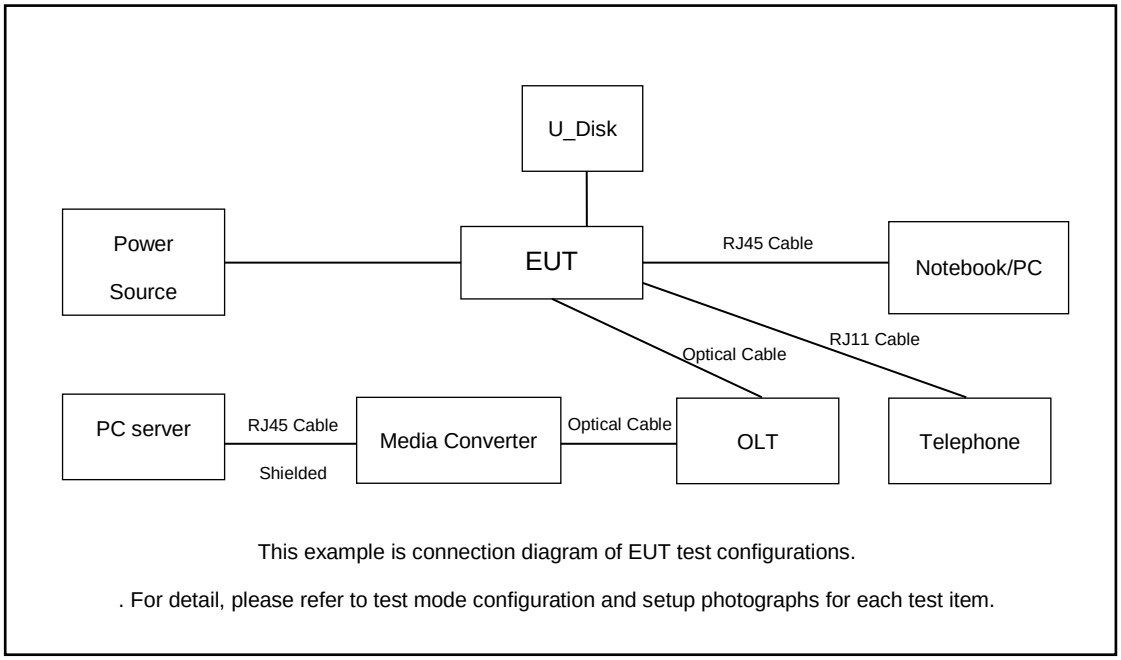
2.1. Test Mode

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: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from Adapter1 + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1 Mode 2: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from Adapter2 + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1 Mode 3: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) +XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from UPS + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1
Radiated Emissions	Mode 1: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from Adapter1 + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1 Mode 2: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from Adapter2 + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1 Mode 3: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from UPS + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 1 Mode 4: WLAN On + LAN 1 Link(1000Mbps) + LAN 4 Link(10Gbps) + XGSPON Link(With OLT,10Gbps) + RJ11 1 Link(With telephone) + USB Link(With U_DISK) + Power from Adapter1 + LAN 2 Link(1000Mbps) + LAN 3 Link(1000Mbps) + RJ11 2 Link(With telephone) for Sample 2
Remark: **1.** The worst case of AC is mode 2; only the test data of this mode is reported. **2.** The worst case of RE is mode 1; only the test data of this mode is reported.	

2.2.Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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.	Notebook*3	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
2.	Notebook	Lenovo	V130-14IKB001	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 3480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Telephone	bubugao	HCD007(6082)TSD	N/A	N/A	N/A
5.	Telephone	bubugao	HCD007(113)TSD	N/A	N/A	N/A
6.	PC	Dell	D12M	Fcc DoC	N/A	Unshielded,1.8m
7.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
8.	U disk	KINGSHARE	KSP6120G	N/A	N/A	N/A
9.	CyberPower	N/A	DTC50U12V3-G	N/A	N/A	N/A
10.	OLT	N/A	N/A	N/A	N/A	N/A
11.	Media Converter	N/A	N/A	N/A	N/A	N/A

12.	PC server	N/A	N/A	N/A	N/A	N/A
13.	RJ11 Cable	N/A	N/A	N/A	N/A	N/A
14.	RJ45 Cable	N/A	N/A	N/A	N/A	Unshielded
15.	RJ45 Cable	N/A	N/A	N/A	N/A	shielded
16.	Optical Cable	N/A	N/A	N/A	N/A	N/A
17.	Bracket	N/A	3TN01040xxxx (x can be A-Z or blank)	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The following programs installed in the EUT were programmed during the test.

1. Read/Write and Storage of Data between U disk and EUT
2. EUT is connected with notebook or PC via RJ-45 cable (LAN1/2/3, unshielded, 1Gbps; LAN4, shielded, 10Gbps), execute “PING IP” function.
3. Notebook Ping IP with address of EUT itself via LAN1(1Gbps).
4. Notebook Ping IP with PC Server via LAN2/3(1Gbps).
5. PC Server Ping IP with PC via LAN4(10Gbps).
6. EUT is connected with telephone via RJ-11 cable, execute program to make a phone call between the two telephone.

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.

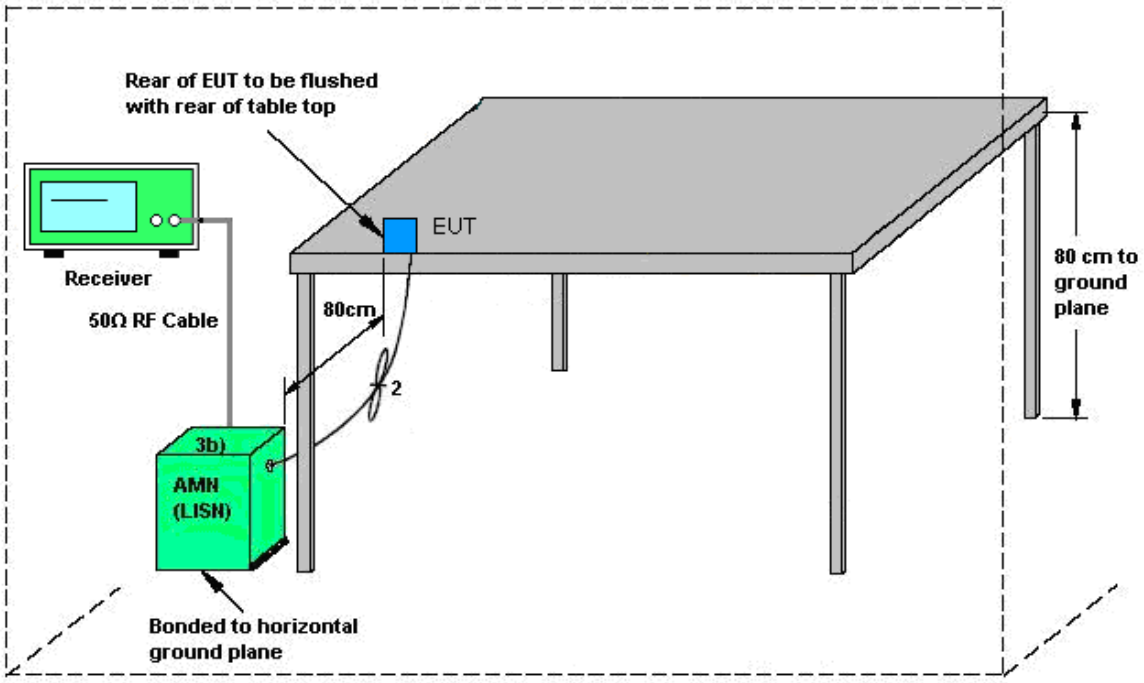
3.1.2 Measuring Instruments

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.

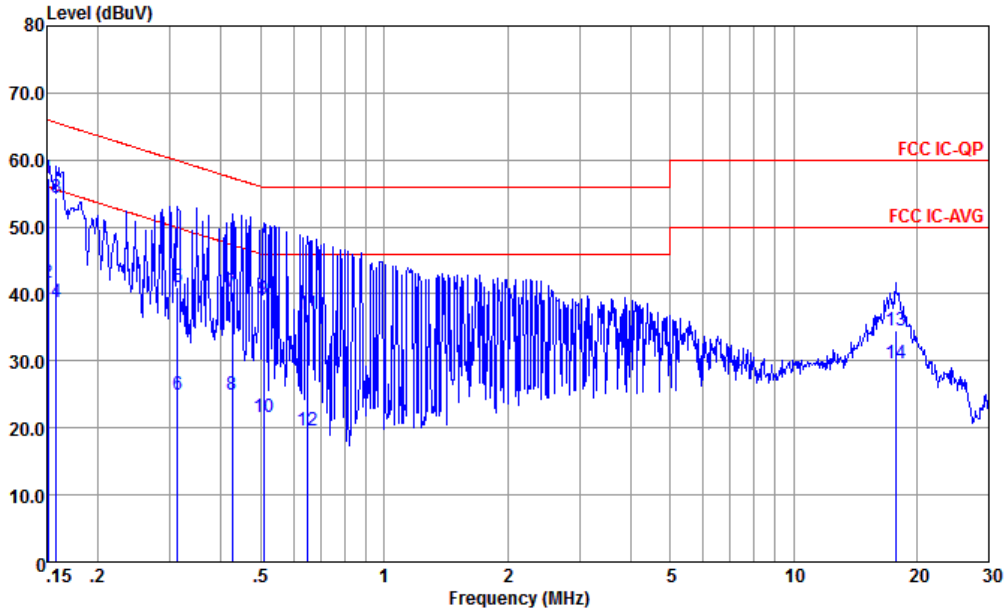
3.1.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.1.5 Test Result of AC Conducted Emission

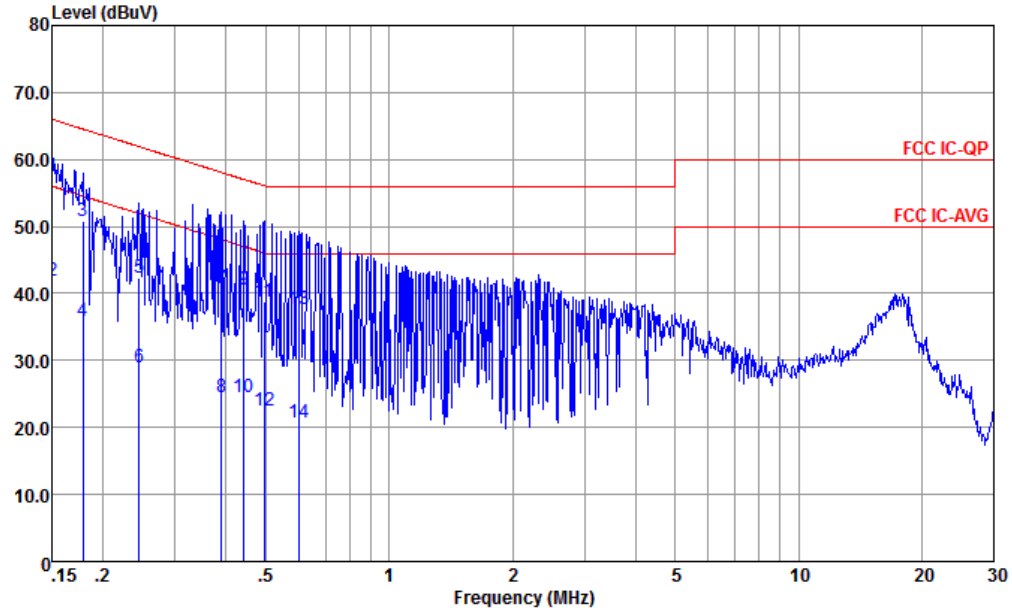
Test Engineer :	Amos Zhang	**Temperature :**	25.3·26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC IC-QP LISN-060105-L 2024 LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.151	57.27	-8.69	65.96	46.70	0.12	10.45	QP
2		0.151	41.77	-14.19	55.96	31.20	0.12	10.45	Average
3		0.158	54.36	-11.20	65.56	43.80	0.11	10.45	QP
4		0.158	38.76	-16.80	55.56	28.20	0.11	10.45	Average
5		0.313	41.05	-18.83	59.88	30.50	0.07	10.48	QP
6		0.313	25.05	-24.83	49.88	14.50	0.07	10.48	Average
7		0.426	40.32	-17.01	57.33	29.90	-0.05	10.47	QP
8		0.426	24.92	-22.41	47.33	14.50	-0.05	10.47	Average
9		0.507	39.19	-16.81	56.00	28.89	-0.11	10.41	QP
10		0.507	21.59	-24.41	46.00	11.29	-0.11	10.41	Average
11		0.651	37.01	-18.99	56.00	26.80	-0.14	10.35	QP
12		0.651	19.51	-26.49	46.00	9.30	-0.14	10.35	Average
13		17.755	34.46	-25.54	60.00	24.50	-0.33	10.29	QP
14		17.755	29.56	-20.44	50.00	19.60	-0.33	10.29	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		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 2024 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.150	57.47	-8.53	66.00	46.90	0.12	10.45	QP
2	0.150	41.87	-14.13	56.00	31.30	0.12	10.45	Average
3	0.179	50.78	-13.77	64.55	40.19	0.13	10.46	QP
4	0.179	35.78	-18.77	54.55	25.19	0.13	10.46	Average
5	0.246	42.27	-19.64	61.91	31.80	0.00	10.47	QP
6	0.246	29.07	-22.84	51.91	18.60	0.00	10.47	Average
7	0.389	40.85	-17.23	58.08	30.50	-0.14	10.49	QP
8	0.389	24.55	-23.53	48.08	14.20	-0.14	10.49	Average
9	0.442	40.51	-16.51	57.02	30.20	-0.14	10.45	QP
10	0.442	24.51	-22.51	47.02	14.20	-0.14	10.45	Average
11	0.494	38.76	-17.34	56.10	28.50	-0.15	10.41	QP
12	0.494	22.56	-23.54	46.10	12.30	-0.15	10.41	Average
13	0.601	37.71	-18.29	56.00	27.50	-0.16	10.37	QP
14	0.601	20.71	-25.29	46.00	10.50	-0.16	10.37	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

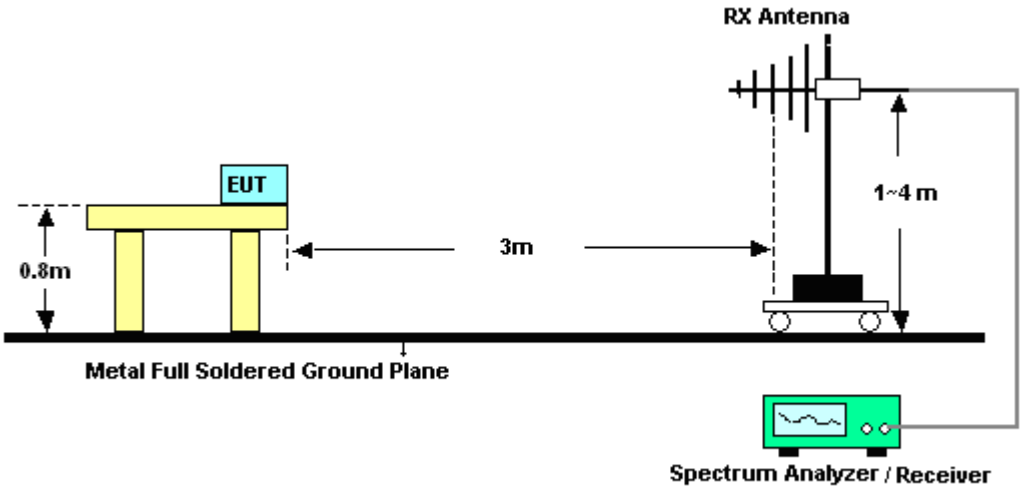
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

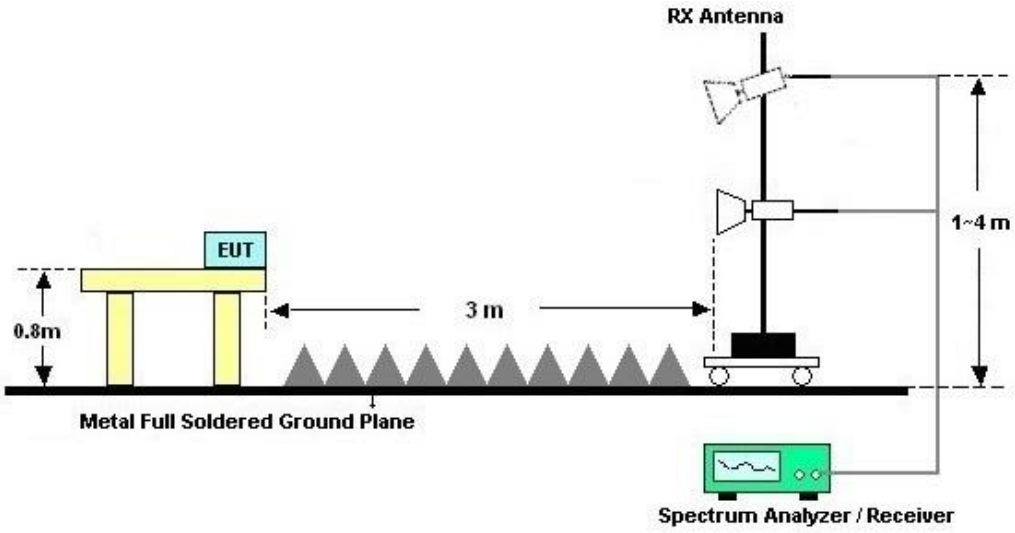
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

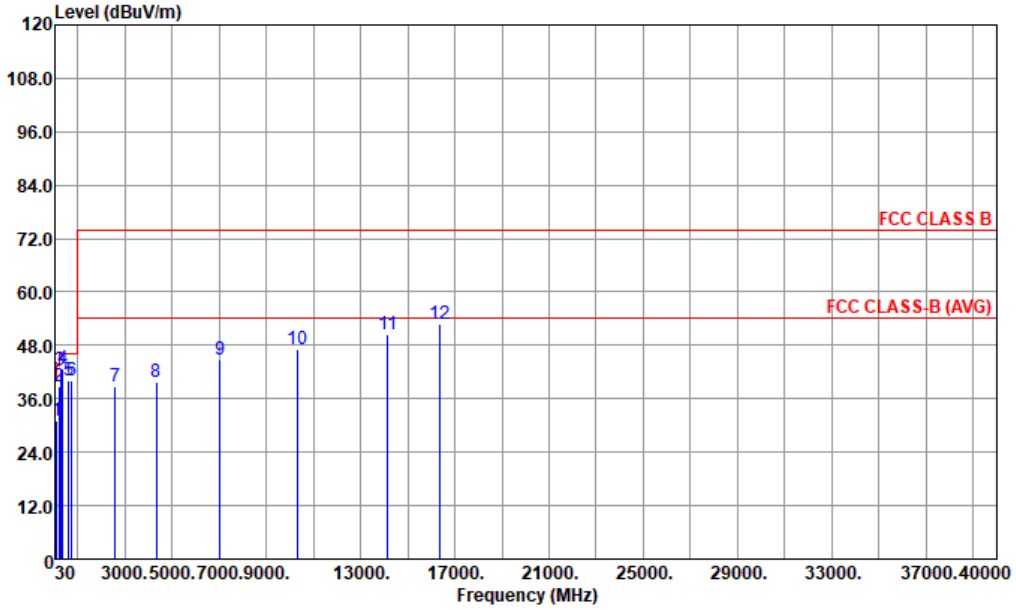


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

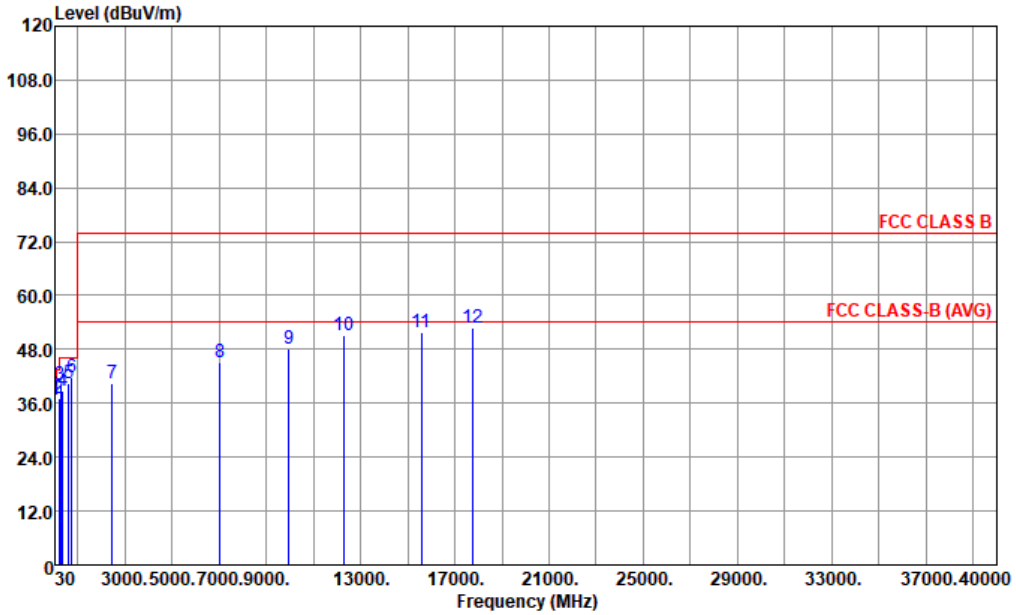
Test Engineer :	Carl Ni	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal



Site : 03CH04-KS
Condition : FCC CLASS B 3m 3117-75957 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	Read 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	94.02	31.12	-12.38	43.50	46.61	15.30	1.55	32.34	---	---	Peak
2	217.21	38.89	-7.11	46.00	53.66	15.09	2.41	32.27	---	---	Peak
3	261.83	42.59	-3.41	46.00	52.22	20.00	2.65	32.28	100	25	Peak
4 p	375.32	42.91	-3.09	46.00	51.13	21.01	3.18	32.41	100	113	Peak
5	624.61	40.07	-5.93	46.00	42.23	26.28	4.11	32.55	100	252	Peak
6	749.74	40.26	-5.74	46.00	39.88	28.21	4.50	32.33	112	48	Peak
7	2581.00	38.74	-35.26	74.00	62.09	33.17	8.43	64.95	---	---	Peak
8	4349.00	39.79	-34.21	74.00	60.55	33.90	10.96	65.62	---	---	Peak
9	7035.00	44.77	-29.23	74.00	60.03	35.90	14.16	65.32	---	---	Peak
10	10316.00	47.19	-26.81	74.00	56.01	37.42	17.44	63.68	---	---	Peak
11	14141.00	50.59	-23.41	74.00	54.30	39.24	20.67	63.62	---	---	Peak
12	16351.00	52.71	-21.29	74.00	53.44	41.80	22.24	64.77	---	---	Peak

Test Engineer :	Carl Ni	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH04-KS
Condition : FCC CLASS B 3m 3117-75957 VERTICAL

	Freq	Level	Over Limit	Limit Line	Read 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 q	49.40	36.85	-3.15	40.00	53.39	14.88	0.85	32.27	100	47	QP
2	216.24	37.13	-8.87	46.00	51.96	15.03	2.41	32.27	---	---	Peak
3	261.83	39.97	-6.03	46.00	49.60	20.00	2.65	32.28	---	---	Peak
4	375.32	38.68	-7.32	46.00	46.90	21.01	3.18	32.41	---	---	Peak
5	624.61	40.53	-5.47	46.00	42.69	26.28	4.11	32.55	100	176	Peak
6 p	749.74	41.84	-4.16	46.00	41.46	28.21	4.50	32.33	100	172	Peak
7	2462.00	40.60	-33.40	74.00	64.62	32.70	8.20	64.92	---	---	Peak
8	7035.00	45.15	-28.85	74.00	60.41	35.90	14.16	65.32	---	---	Peak
9	9959.00	48.02	-25.98	74.00	57.86	37.12	17.07	64.03	---	---	Peak
10	12288.00	51.09	-22.91	74.00	54.99	39.10	19.20	62.20	---	---	Peak
11	15586.00	51.66	-22.34	74.00	53.29	40.77	21.68	64.08	---	---	Peak
12	17762.00	52.92	-21.08	74.00	54.08	41.40	23.29	65.85	---	---	Peak

Note:

1. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. 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	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2024	Oct. 25, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Oct. 25, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 18, 2024	Oct. 25, 2024	Aug. 17, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Oct. 25, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Oct. 25, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Oct. 25, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Oct. 25, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 10, 2024	Oct. 25, 2024	Oct. 09, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 25, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 25, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 25, 2024	NCR	Radiation (03CH04-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Oct. 31, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Oct. 31, 2024	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Oct. 31, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Oct. 31, 2024	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**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.04 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.34 dB**

---------- THE END ----------