IC Test Report

Issued date: Mar. 12, 2024

Project No.: 24Q013104

Product : MediaTek Genio 1200 Carrier Board

Model : ESOM-MT-1200-CB

Series Model : ESOM-MT-1200 Series, ESOM-MT-1200XXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing and customized purpose)

Applicant : Vecow Co., Ltd

Address : 3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan

Report No: WD-EI-R-240065-A0

According to

ICES-003: 2020 Issue 7, Class A	ANSI C63.4: 2014
ICES-Gen: 2024 Issue 2	ANSI C63.4a: 2017

Authorized Signatory : / Ken Huang

Wendell Industrial Co., Ltd
Wendell EMC & RF Laboratory
Add: 5F-1, No. 188, Baoqiao Road, Xindian District, New Taipei City 23145, Taiwan R.O.C.

Table of Contents

History of this test report

Report No.	Issue date	Description
WD-EI-R-240065-A0	Mar. 12, 2024	Initial Issue

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.

History of supplementary report

Report No.	Issue date	Description
WD-EI-R-240065-A0	Mar. 12, 2024	Original report

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.

1 Certification

Product:	MediaTek Genio 1200 Carrier Board
Model:	ESOM-MT-1200-CB
Series Model:	ESOM-MT-1200 Series, ESOM-MT-1200XXXXXXXXXXXXX (“X” can be 0-9, A-Z, - or blank for marketing and customized purpose)
Applicant:	Vecow Co., Ltd
Tested:	Feb. 26 ~ Mar. 01, 2024
Standard:	ICES-003: 2020 Issue 7, Class A
	ICES-Gen: 2024 Issue 2
	ANSI C63.4: 2014
	ANSI C63.4a: 2017

The above equipment (Model: ESOM-MT-1200-CB) has been tested by **Wendell EMC & RF Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample’s EMC characteristics under the conditions specified in this report.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

1.1 Summary of Test Result

The EUT has been tested according to the following specifications:

Emission				
Standard	**Test Item**	**Limit**	**Result**	**Remark**
ICES-003	Conducted disturbance at mains terminals	Class A	Pass	Meets the requirements
	Radiated disturbance	Class A	Pass	Meets the requirements

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.

2 Test Configuration of Equipment Under Test

2.1 Test Facility

Conducted disturbance at mains terminals Test

W01: 5F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan (R.O.C)

Conducted disturbance at mains terminals and Radiated emission (9*6*6 Chamber) Tests

W08: No.119, Wugong 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.

2.2 Measurement Uncertainty

The measurement instrumentation uncertainty is evaluated according to CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Wendell EMC & RF Laboratory U_{lab} is less than U_{cispr}, therefore compliance or non-compliance with a disturbance limit shall be determined in the following manner.

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Please note that the measurement uncertainty (U_{lab}) is provided for informational purpose only and is not used in determining the Pass/Fail results.

2.2.1 Conducted Emission test

Test Site	Measurement Freq. Range	dB (U_{lab})	Note
W01-CE	150 kHz ~ 30 MHz	2.75	N/A
W08-CE	150 kHz ~ 30 MHz	2.76	N/A

2.2.2 Radiated Emission test

Test Site	Measurement Freq. Range	Ant	dB (U_{lab})	Note
W08-966-1	30 MHz ~ 200 MHz	V	3.78	N/A
	30 MHz ~ 200 MHz	H	2.69	N/A
	200 MHz ~ 1000 MHz	V	4.91	N/A
	200 MHz ~ 1000 MHz	H	3.40	N/A
	1 GHz ~ 6 GHz	V	4.48	N/A
	1 GHz ~ 6 GHz	H	4.33	N/A
	6 GHz ~ 18 GHz	V	4.56	N/A
	6 GHz ~ 18 GHz	H	4.56	N/A
	18 GHz ~ 40 GHz	V	4.42	N/A
	18 GHz ~ 40 GHz	H	4.42	N/A

3 General Information

3.1 Description of EUT

Product	MediaTek Genio 1200 Carrier Board
Model	ESOM-MT-1200-CB
Series Model	ESOM-MT-1200 Series, ESOM-MT-1200XXXXXXXXXXXX ("X" can be 0-9, A-Z, - or blank for marketing and customized purpose)
Applicant	Vecow Co., Ltd
Received Date	Feb. 16, 2024
EUT Power Rating	12Vdc (from adapter)
Model Differences	The models are electrically identical, different models no. are for marketing purpose. The series model information is provided by client.
Operating System	Linux Yocto 3.1
Data Cable Supplied	N/A
Accessory Device	N/A
I/O Port	Please refer to the User's Manual

Note:

1. The EUT uses the follow adapter:

Adapter (support unit only)	
Brand	LITEON
Model	HA-1600-12
Input Power	100-240Vac, 1.7A, 50-60Hz
Output Power	12Vdc, 5.0A, 60.0W
Power line	Input: 1.8m non-shielded cable Output: 1m non-shielded cable with 1 core

2. The EUT's highest operating frequency is 2.2GHz. Therefore the radiated emission is tested up to 11GHz.

3.2 Description of Test Modes

Test results are presented in the report as below.

Test Mode	Test Condition
Conducted emission test	
-	Adapter mode
Radiated emission 30MHz ~ 1GHz test	
-	Adapter mode
Radiated emission above 1GHz test	
-	Adapter mode

3.3 EUT Operating Condition

a. Inserted the EUT into the enclosure and placed on test table.
b. Prepare PC & NB to act as a communication partner and placed it outside of testing area.
c. The EUT was connected to the PC & NB with LAN cable.
d. The communication partner sent data to EUT by command "ping" via LAN.
e. The EUT run test program "BurnIN.exe" to enable all functions.
f. The EUT sent "H" message to monitor and displayed on screen.
g. The EUT sent voice signal to earphone.

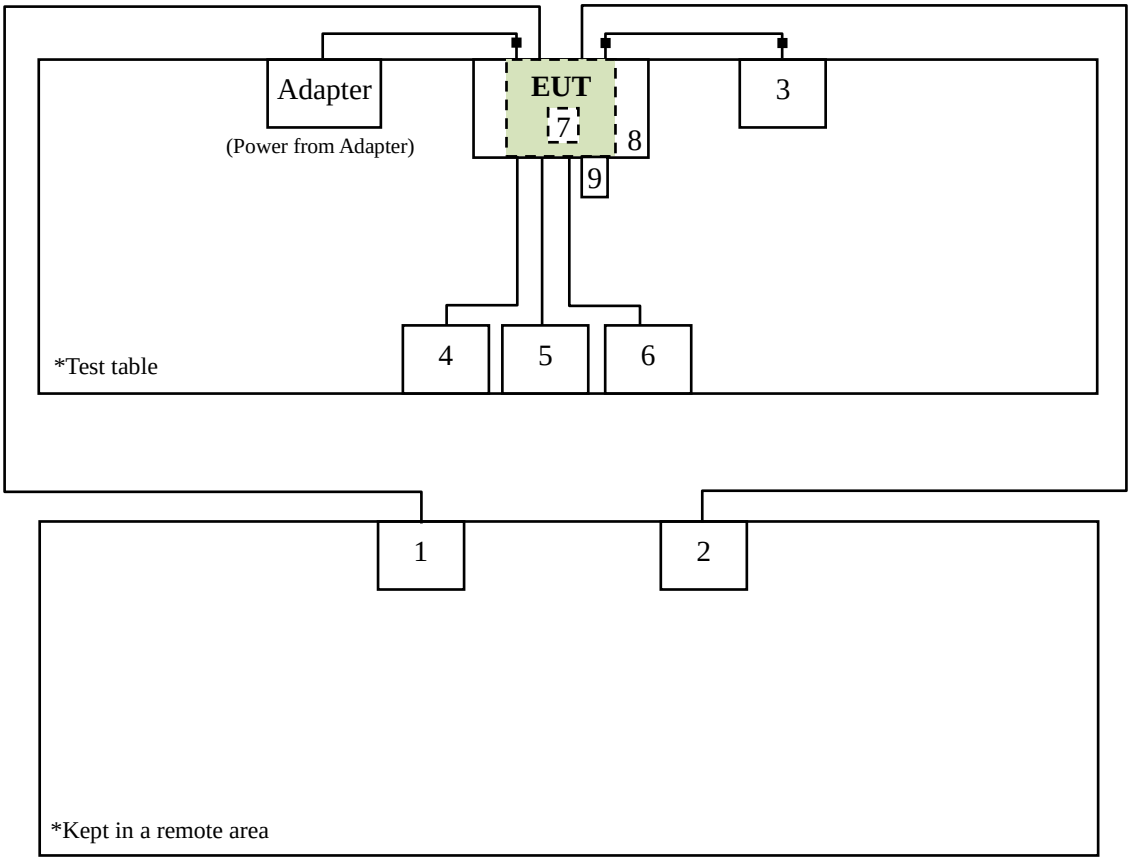
3.4 Description of Support Unit

The EUT has been conducted testing with other necessary accessories or support units.

Item	Equipment	Brand	Model No.	Serial No.	FCC ID	Data Cable	Power Cable	Remark
1	Desktop PC	DELL	D13M	H6K10 A00	FCC DoC Approved	20m CAT.5E non-shielded RJ45 cable	1.8m non-shielded cable	-
2	Notebook	acer	ZQ0	NXV9V TA01344718C4 B7600	FCC DoC Approved	20m CAT.5E non-shielded RJ45 cable	AC: 1m non-shielded cable DC: 1.4m non-shielded cable with 1 core	-
3	1080P Monitor	DELL	P2317H	CN-0PGX4T-Q DC00-7C6-OLE B-A05	FCC DoC Approved	1.5m shielded HDMI cable with 2 cores	1.8m non-shielded cable	-
4	Keyboard	Logitech	Y-U0009	1710SC500LA8	FCC DoC Approved	1.5m non-shielded cable	N/A	-
5	Mouse	Logitech	M-U0026	HS726HB	FCC DoC Approved	2m non-shielded cable	N/A	-
6	Earphone & Microphone	E-books	E-EPA057	N/A	N/A	1.4m non-shielded cable	N/A	-
7	MediaTek Genio 1200 System on Module	Vecow	ESOM-MT-1200	N/A	N/A	N/A	N/A	Supplied by client
8	Enclosure	N/A	N/A	N/A	N/A	N/A	N/A	Supplied by client
9	RS232 terminator	N/A	N/A	N/A	N/A	N/A	N/A	Supplied by client

Note: 1. The core(s) is(are) originally attached to the cable(s).
2. Item 1-2 acted as communication partners to transfer data.

3.5 Configuration of System Under Test



4 Emission Test

4.1 Conducted Emission Measurement

4.1.1 Limit of Conducted Emission Measurement

Frequency (MHz)	Class A (dBµV)		Class B (dBµV)	
	Quasi-peak (dBµV)	Average (dBµV)	Quasi-peak (dBµV)	Average (dBµV)
0.15 - 0.5	79	66	66 to 56	56 to 46
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
4. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
Margin Level = Measurement Value –Limit Value

4.1.2 Test Instrument

Test Site: W01-CE					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-1	Jun. 09, 2023
2	Pulse limiter	R&S	ESH3-Z2	CT-2-015	Jun. 01, 2023
3	EMI Test Receiver	R&S	ESCI	CT-1-024	May 30, 2023
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127	CT-1-104-1	Jun. 09, 2023
5	RF Cable	MVE	200200.400LL .500A	CT-9-101	Jun. 01, 2023
6	50ohm Termination	N/A	N/A	CT-1-065-1	Jun. 12, 2023
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

Test Site: W08-CE					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-2	Jun. 16, 2023
2	RF Cable	EMCI	EMCCFD300-BM-BM-5000	CT-1-107-2	Jun. 17, 2023
3	EMI Test Receiver	R&S	ESR3	CT-1-103	Jun. 19, 2023
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127 RC	CT-1-104-1RC	Jun. 16, 2023
5	Transient Limiter	Electro-Metrics	EM-7600	CT-1-026	Jun. 17, 2023
6	50ohm Termination	N/A	N/A	CT-1-109-1	Jun. 16, 2023
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

4.1.3 Test Procedure

a. The table-top EUT was placed 0.8 meter height wooden table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required.

b. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).

c. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.

d. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

e. The EMI test receiver connected to LISN powering the EUT. The actual test configuration, please refer to EUT test photos.

f. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. A scan was taken on both power lines, Line and Neutral, recording at least six highest emissions.

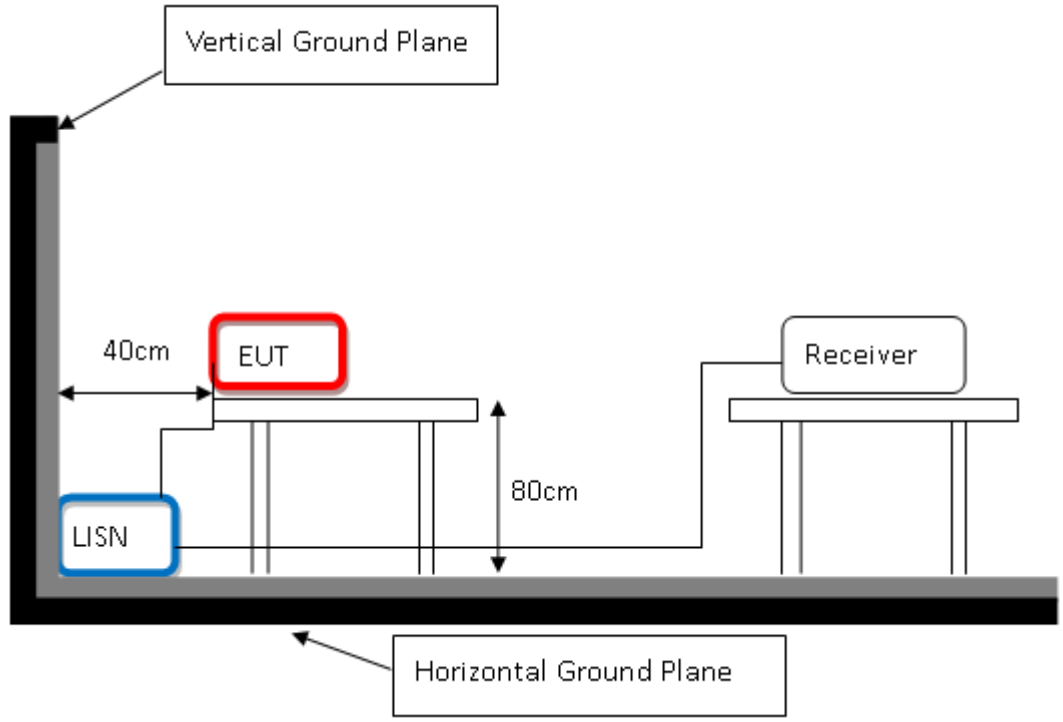
g. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.1.4 Deviation from Test Standard

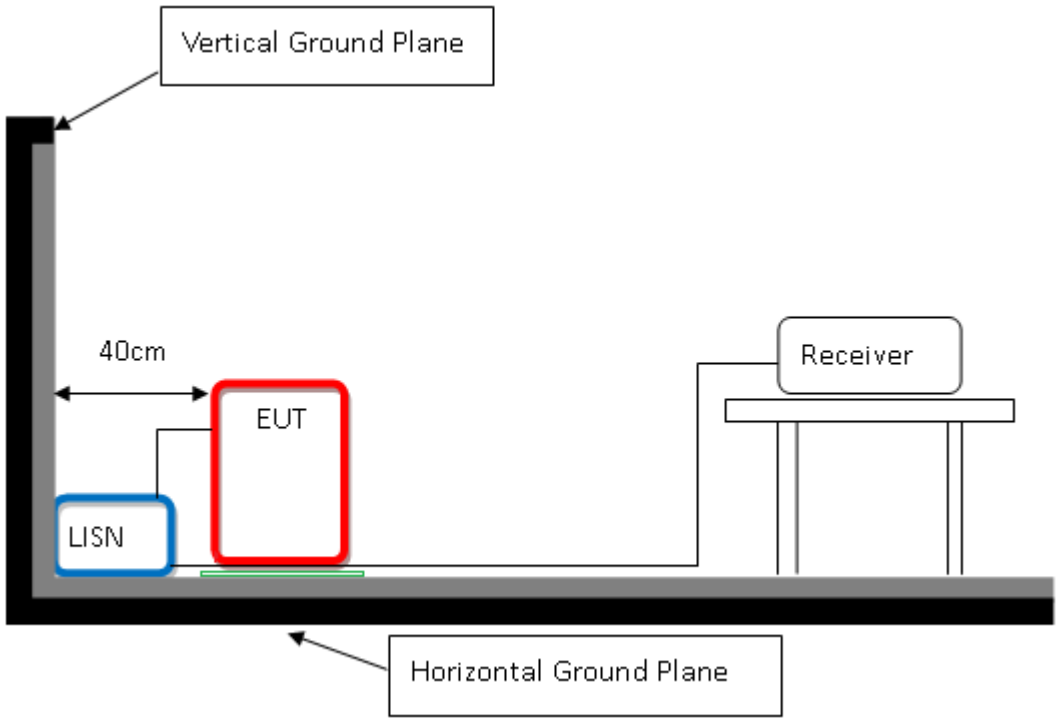
No deviation

4.1.5 Test Setup

< Table-Top equipment >



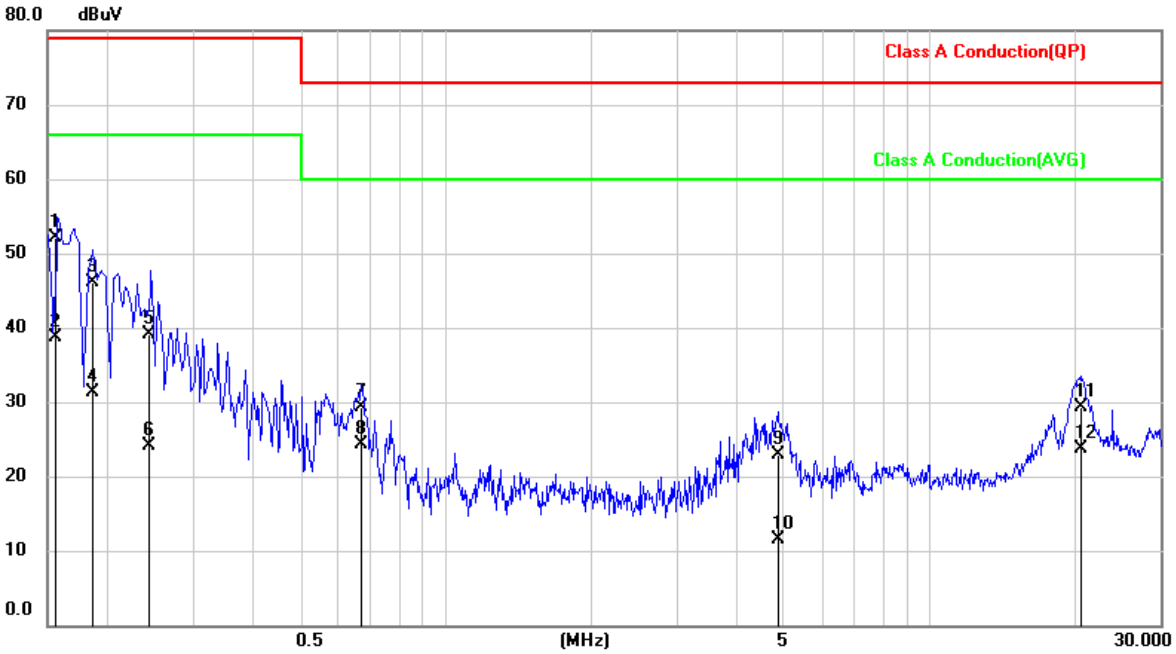
< Floor-Standing equipment >



Note: Please refer to 4.1.7 for the actual test configuration.

4.1.6 Test Result

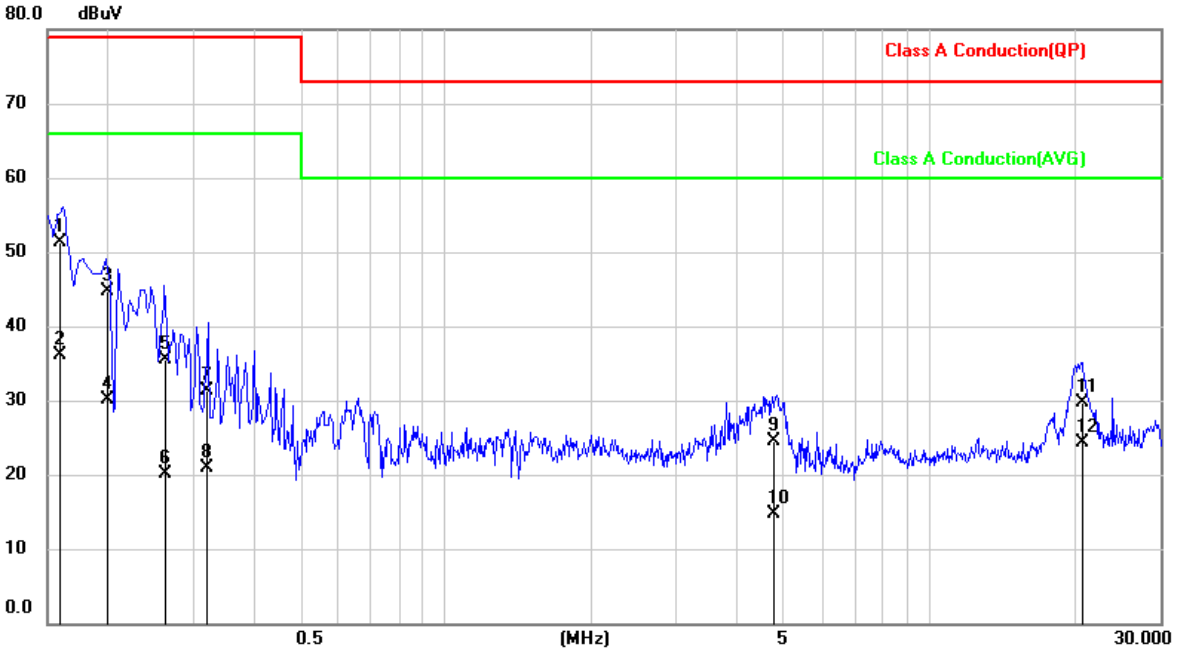
Test Voltage	120Vac, 60Hz	**Frequency Range**	0.15-30 MHz
Environmental Conditions	22℃, 63% RH	**6dB Bandwidth**	9 kHz
Test Date	2024/03/01	**Phase**	L
Tested by	Guanwei Liao	**Test Site**	W01-CE



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB)	Measurement (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.1548	42.19	9.95	52.14	79.00	-26.86	QP
2	0.1548	28.68	9.95	38.63	66.00	-27.37	AVG
3	0.1847	36.23	9.95	46.18	79.00	-32.82	QP
4	0.1847	21.40	9.95	31.35	66.00	-34.65	AVG
5	0.2429	29.14	9.95	39.09	79.00	-39.91	QP
6	0.2429	14.06	9.95	24.01	66.00	-41.99	AVG
7	0.6726	19.43	9.95	29.38	73.00	-43.62	QP
8	0.6726	14.45	9.95	24.40	60.00	-35.60	AVG
9	4.8938	12.79	10.09	22.88	73.00	-50.12	QP
10	4.8938	1.49	10.09	11.58	60.00	-48.42	AVG
11	20.5995	19.05	10.34	29.39	73.00	-43.61	QP
12	20.5995	13.27	10.34	23.61	60.00	-36.39	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value –Limit Value

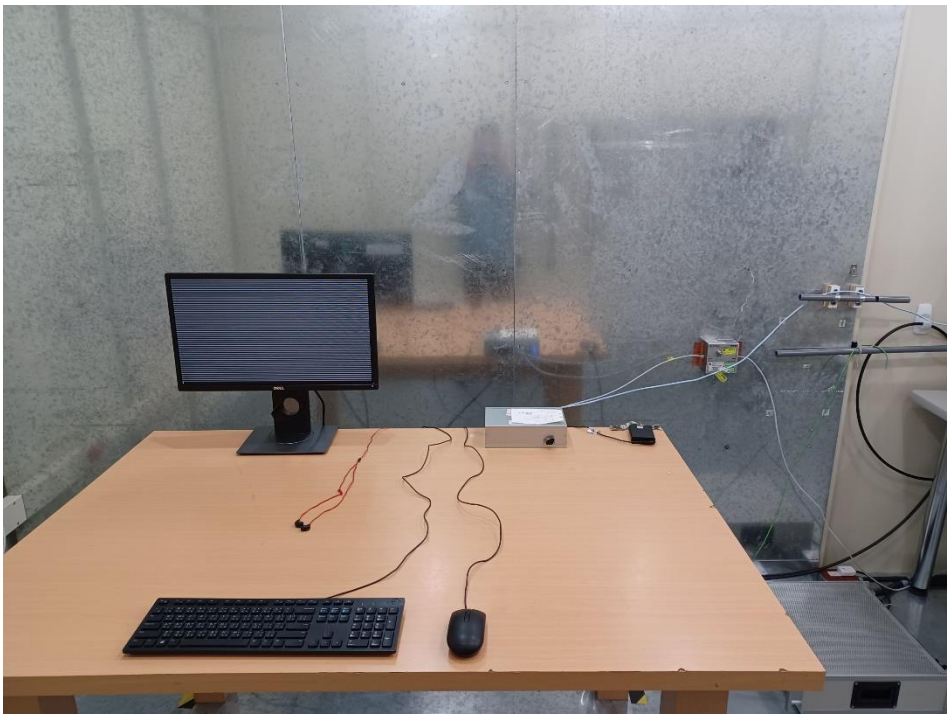
Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22℃, 63% RH	6dB Bandwidth	9 kHz
Test Date	2024/03/01	Phase	N
Tested by	Guanwei Liao	Test Site	W01-CE

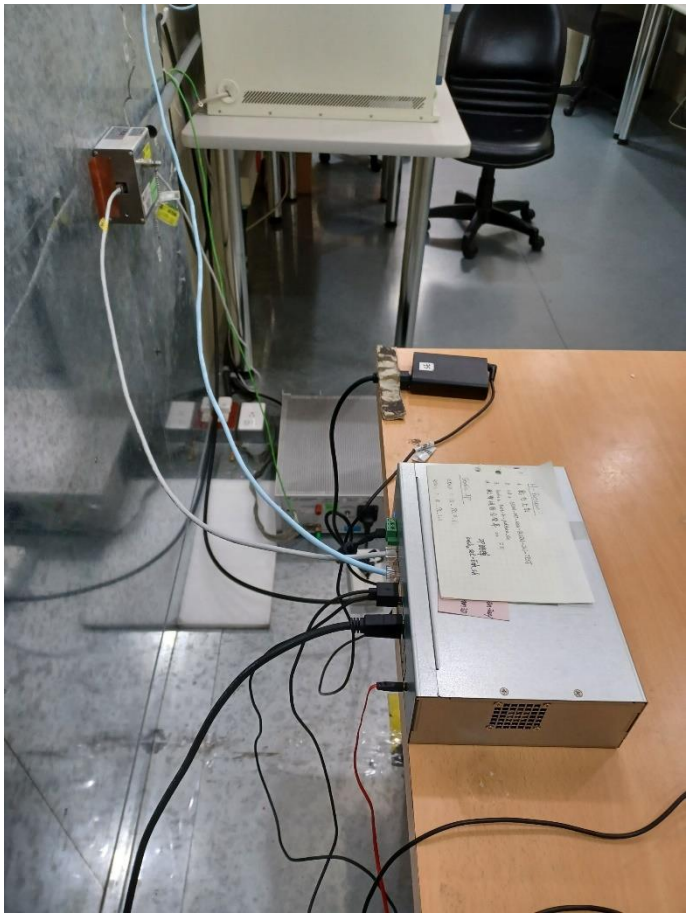


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1587	41.31	9.97	51.28	79.00	-27.72	QP
2	0.1587	26.13	9.97	36.10	66.00	-29.90	AVG
3	0.2000	34.74	9.96	44.70	79.00	-34.30	QP
4	0.2000	20.09	9.96	30.05	66.00	-35.95	AVG
5	0.2641	25.51	9.96	35.47	79.00	-43.53	QP
6	0.2641	10.16	9.96	20.12	66.00	-45.88	AVG
7	0.3193	21.39	9.97	31.36	79.00	-47.64	QP
8	0.3193	10.86	9.97	20.83	66.00	-45.17	AVG
9	4.7753	14.47	10.13	24.60	73.00	-48.40	QP
10	4.7753	4.62	10.13	14.75	60.00	-45.25	AVG
11	20.7356	19.27	10.41	29.68	73.00	-43.32	QP
12	20.7356	13.82	10.41	24.23	60.00	-35.77	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value –Limit Value

4.1.7 Photographs of Test Configuration





4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

Radiated Frequency range 30 MHz to 1000 MHz

ICES-003 Radiated Emissions Limits				
Frequency range (MHz)	**Class A (3m) Quasi-peak (dBµV/m)**	**Class A (10m) Quasi-peak (dBµV/m)**	**Class B (3m) Quasi-peak (dBµV/m)**	**Class B (10m) Quasi-peak (dBµV/m)**
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Radiated Frequency range above 1 GHz

ICES-003 Radiated Emissions Limits				
Frequency range (GHz)	**Class A (3m) (dBµV/m)**		**Class B (3m) (dBµV/m)**	
	Peak	**Average**	**Peak**	**Average**
1 - 40	80	60	74	54

Note: 1. The lower limit shall apply at the transition frequency.
2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
3. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
Margin Level = Measurement Value - Limit Value

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	**Upper frequency of measurement range (MHz)**
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

4.2.2 Test Instrument

Test Site: W08-966-1					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	Horn Antenna	Schwarzbeck	BBHA 9120D	CT-9-031	Jul. 31, 2023
2	Horn Antenna	Schwarzbeck	BBHA 9170	CT-9-032	Aug. 21, 2023
3	TRILOG Broadband Antenna with 6 dB Attenuator	Schwarzbeck & MVE	VULB 9168 & MVE2251-06	CT-1-096-1	May 17, 2023
4	Spectrum Analyzer	Agilent	E4407B	CT-1-003(1)	Aug. 02, 2023
5	EXA Signal Analyzer	Keysight	N9010A	CT-1-093	Aug. 18, 2023
6	EMI Test Receiver	Keysight	N9038A	CT-9-007	Aug. 02, 2023
7	Preamplifier	EM	EM 330	CT-9-024	Aug. 03, 2023
8	Preamplifier	SGH & MCL	SGH118 & BW-S15W2+	CT-9-071	Aug. 03, 2023
9	Preamplifier	EMCI	EMC184045SE	CT-9-013	Aug. 22, 2023
10	Test Cable	EMCI	EMCCFD400-NM-NM-1000	CT-1-132	Aug. 03, 2023
11	Test Cable	PEWC	CFD400NL-LW-NM-NM-3000	CT-1-141	Aug. 03, 2023
12	Test Cable	EMCI	EMCCFD400-NM-NM-15000	CT-1-133	Aug. 03, 2023
13	Test Cable	EMCI	EMC104-SM-35M-600	CT-1-134	Aug. 03, 2023
14	Test Cable	MVE	280280.LL266.1400	CT-9-072	Aug. 03, 2023
15	Test Cable	EMCI	EMC102-KM-KM-600	CT-1-136	Aug. 22, 2023
16	Measurement Software	EZ-EMC	Ver :WD-03A1-1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

4.2.3 Test Procedure

a. The table-top EUT was placed on the top of a turntable 0.8 meters above the ground at 3 m 966 chamber. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required. The table was rotated 360 degrees to determine the position of the high radiation emissions.

b. The height of the test antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.

c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage. The actual test configuration, please refer to EUT test photos.

d. The initial step in collecting radiated emission data is a Spectrum Mode scanning the measurement frequency range.

Below 1GHz:

Reading in which marked as QP or Peak means measurements by using Spectrum Mode with detector RBW=120kHz.

If the Spectrum Mode measured peak value compliance with and lower than Quasi Peak Limit, the EUT shall be deemed to meet QP Limits.

Above 1GHz:

Reading in which marked as Peak & AVG means measurements by using Spectrum Mode with setting in RBW=1MHz.

If the Spectrum Mode measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak and AVG Limits.

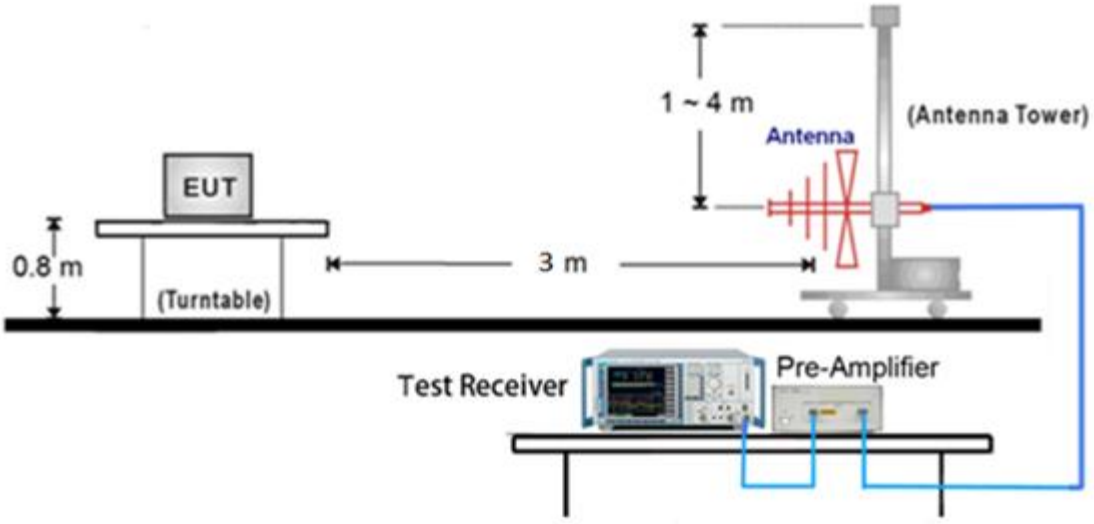
e. Emission frequency and amplitude were recorded, recording at least six highest emissions. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.2.4 Deviation from Test Standard

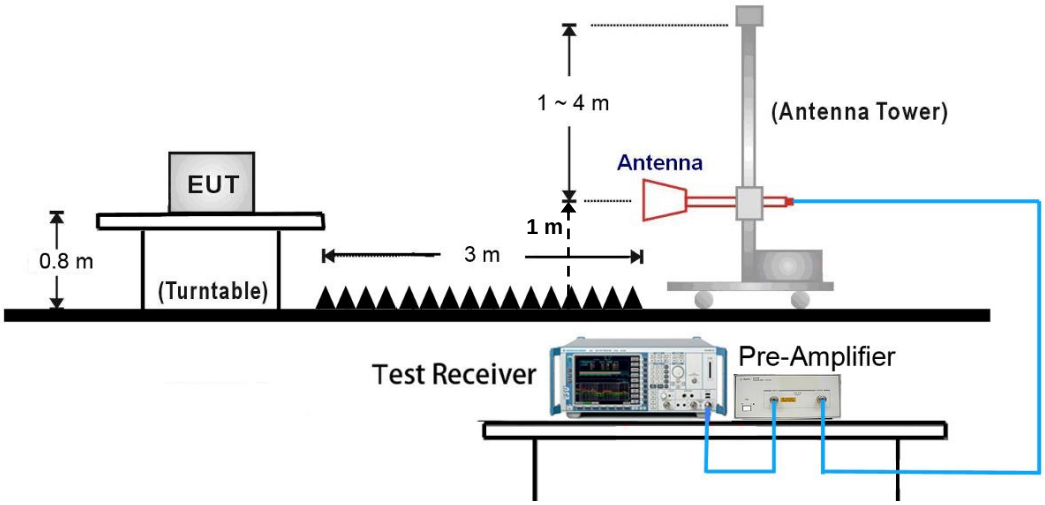
No deviation

4.2.5 Test Setup

< Radiated Emissions Frequency: 30 MHz to 1000 MHz >



< Radiated Emissions Frequency: above 1GHz >

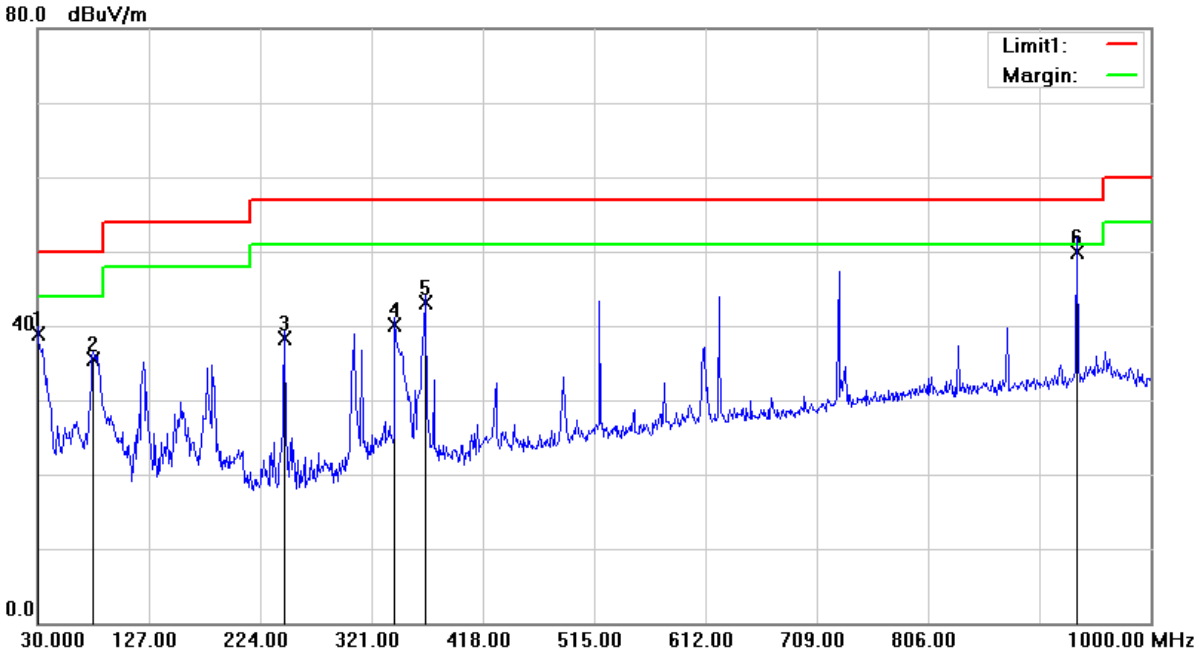


Note:

(1) Please refer to the 4.2.7 for the actual test configuration.
(2) The formula of measured value as: Test Result = Reading + Correction Factor
(3) Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)
Margin Level = Measurement Value - Limit Value

4.2.6 Test Result

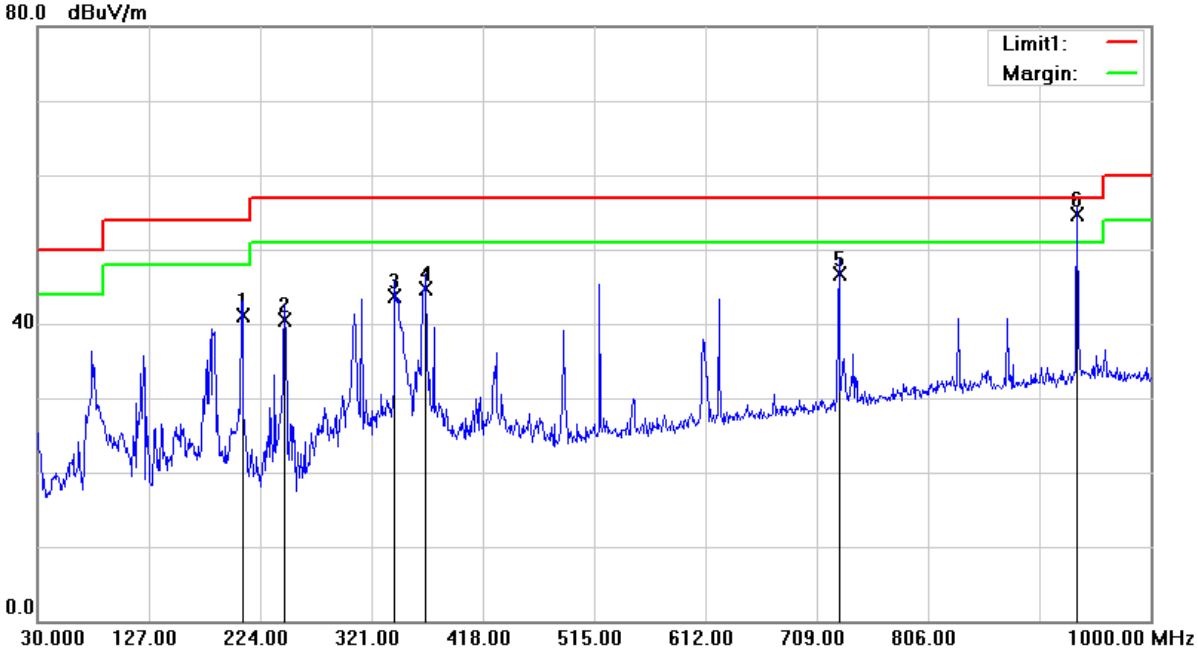
Test Voltage	120Vac, 60Hz	**Frequency Range**	30 – 1000 MHz
Environmental Conditions	23°C, 51% RH	**6dB Bandwidth**	120 kHz
Test Date	2024/02/26	**Test Distance**	3m
Tested by	Karwin Kao	**Polarization**	Vertical
Test Site	W08-966-1		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	30.0000	50.58	-11.73	38.85	50.00	-11.15	0	100	QP
2	78.5000	50.01	-14.46	35.55	50.00	-14.45	76	100	QP
3	245.3400	48.80	-10.53	38.27	57.00	-18.73	313	200	QP
4	341.3700	47.45	-7.44	40.01	57.00	-16.99	359	200	QP
5	367.5600	50.02	-6.92	43.10	57.00	-13.90	188	100	QP
6	935.9800	44.45	5.54	49.99	57.00	-7.01	320	100	QP

Remark: 1. QP = Quasi Peak
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

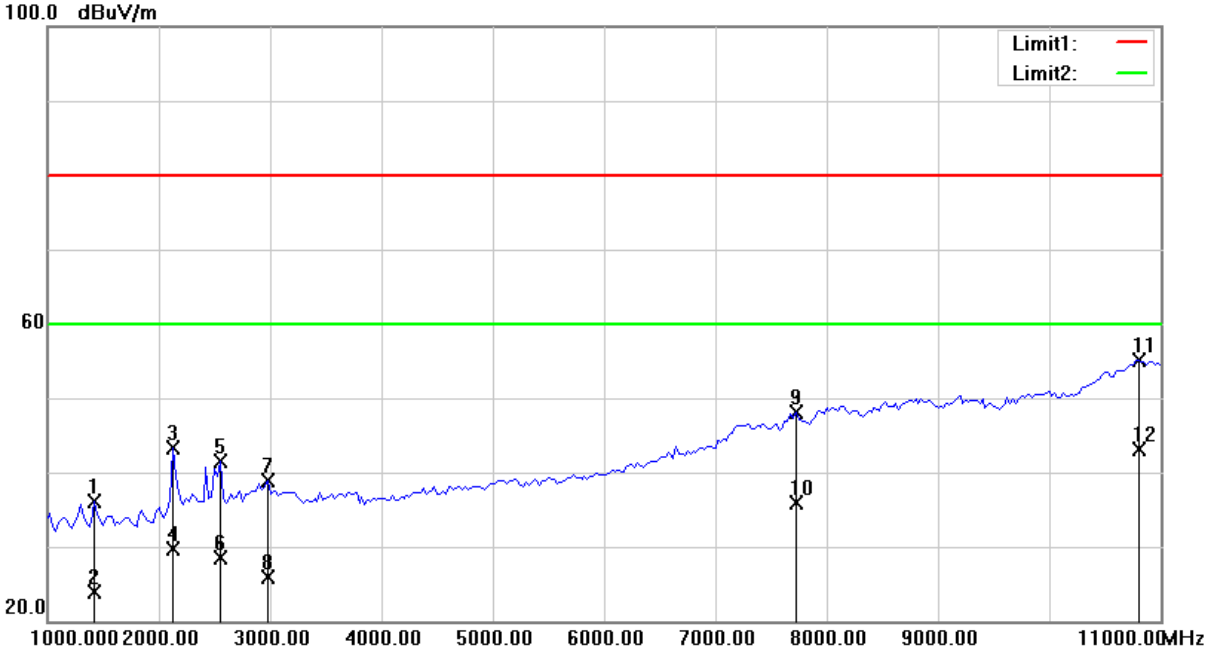
Test Voltage	120Vac, 60Hz	**Frequency Range**	30 – 1000 MHz
Environmental Conditions	23°C, 51% RH	**6dB Bandwidth**	120 kHz
Test Date	2024/02/26	**Test Distance**	3m
Tested by	Karwin Kao	**Polarization**	Horizontal
Test Site	W08-966-1		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	208.4800	53.66	-12.62	41.04	54.00	-12.96	300	200	QP
2	245.3400	51.04	-10.53	40.51	57.00	-16.49	290	100	QP
3	341.3700	51.07	-7.44	43.63	57.00	-13.37	49	100	QP
4	368.5300	51.64	-6.87	44.77	57.00	-12.23	76	100	QP
5	728.4000	44.51	2.27	46.78	57.00	-10.22	185	200	QP
6	935.9800	49.26	5.54	54.80	57.00	-2.20	168	200	QP

Remark: 1. QP = Quasi Peak
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

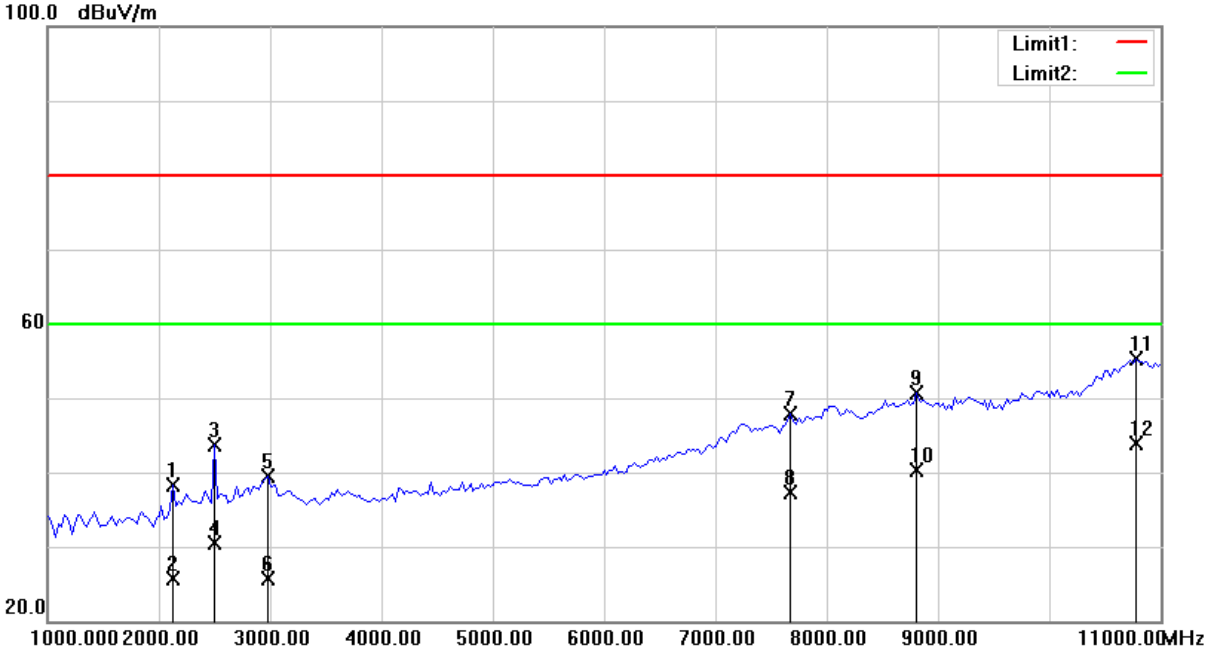
Test Voltage	120Vac, 60Hz	**Frequency Range**	1 – 11GHz
Environmental Conditions	23°C, 51% RH	**6dB Bandwidth**	1MHz
Test Date	2024/02/26	**Test Distance**	3m
Tested by	Karwin Kao	**Polarization**	Vertical
Test Site	W08-966-1		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1425.000	48.21	-12.05	36.16	80.00	-43.84	11	100	peak
2	1425.000	35.91	-12.05	23.86	60.00	-36.14	11	100	AVG
3	2125.000	52.99	-9.66	43.33	80.00	-36.67	154	100	peak
4	2125.000	39.46	-9.66	29.80	60.00	-30.20	154	100	AVG
5	2550.000	50.32	-8.85	41.47	80.00	-38.53	114	200	peak
6	2550.000	37.33	-8.85	28.48	60.00	-31.52	114	200	AVG
7	2975.000	45.24	-6.31	38.93	80.00	-41.07	158	100	peak
8	2975.000	32.27	-6.31	25.96	60.00	-34.04	158	100	AVG
9	7725.000	41.50	6.53	48.03	80.00	-31.97	264	200	peak
10	7725.000	29.35	6.53	35.88	60.00	-24.12	264	200	AVG
11	10800.000	41.94	13.13	55.07	80.00	-24.93	201	100	peak
12	10800.000	29.88	13.13	43.01	60.00	-16.99	201	100	AVG

Remark: 1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

Test Voltage	120Vac, 60Hz	**Frequency Range**	1 – 11GHz
Environmental Conditions	23°C, 51% RH	**6dB Bandwidth**	1MHz
Test Date	2024/02/26	**Test Distance**	3m
Tested by	Karwin Kao	**Polarization**	Horizontal
Test Site	W08-966-1		



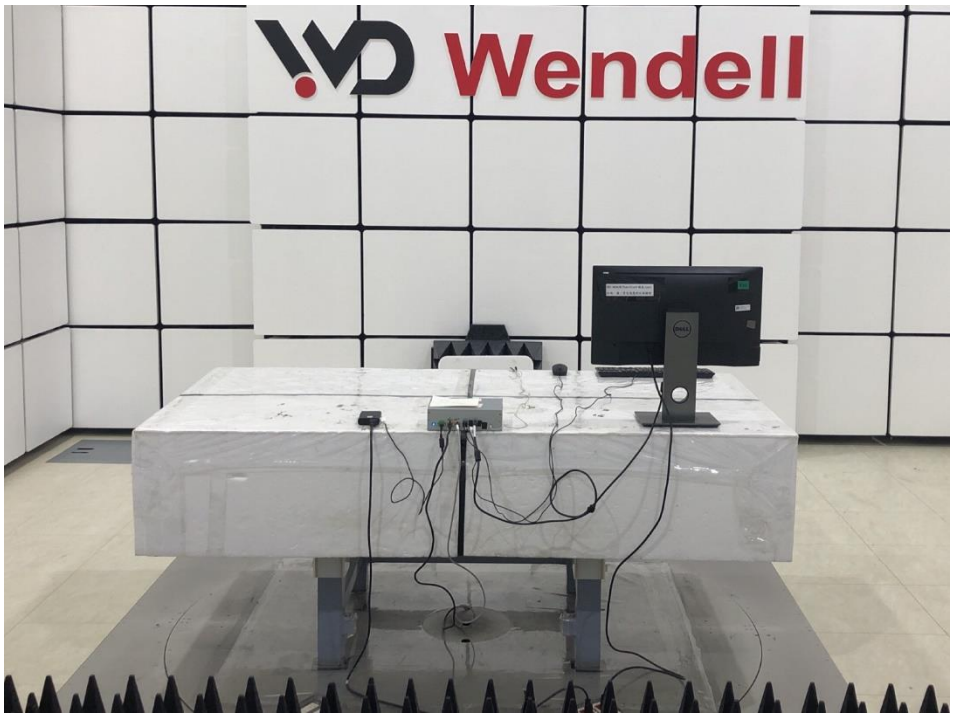
No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	2125.000	48.05	-9.66	38.39	80.00	-41.61	151	200	peak
2	2125.000	35.45	-9.66	25.79	60.00	-34.21	151	200	AVG
3	2500.000	52.81	-9.02	43.79	80.00	-36.21	342	200	peak
4	2500.000	39.60	-9.02	30.58	60.00	-29.42	342	200	AVG
5	2975.000	45.86	-6.31	39.55	80.00	-40.45	300	100	peak
6	2975.000	32.06	-6.31	25.75	60.00	-34.25	300	100	AVG
7	7675.000	41.30	6.52	47.82	80.00	-32.18	67	100	peak
8	7675.000	30.88	6.52	37.40	60.00	-22.60	67	100	AVG
9	8800.000	40.98	9.68	50.66	80.00	-29.34	102	100	peak
10	8800.000	30.59	9.68	40.27	60.00	-19.73	102	100	AVG
11	10775.000	42.27	13.06	55.33	80.00	-24.67	187	100	peak
12	10775.000	30.86	13.06	43.92	60.00	-16.08	187	100	AVG

Remark: 1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

4.2.7 Photographs of Test Configuration

Radiated Emission Test (30MHz~1GHz)

Radiated Emission Test (Above 1GHz)



< End Page >