



TEST REPORT

Applicant Name: Seeed Technology Co., Ltd.

Address: 9F, G3 Building, TCL International E City, Zhongshanyuan Road,

Nanshan District, Shenzhen, Guangdong Province, P.R.C

Report Number: RA230825-50054E-EM-00

Test Standards:

FCC Rules and Regulations Part 15 Subpart B Class A

Sample Description

Product: reServer Industrial

Model No.: J4012, J4011
Trademark: Seeed Studio
Date Received: 2023-08-25
Date of Test: 2023-08-29
Report Date: 2023-09-06

Test Result: Pass*

Prepared and Checked By:

Dave Liang

Dave Liang

EMC Engineer

Approved By:

Martin Lü

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Shenzhen Accurate Technology Co., Ltd.

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^{*} In the configuration tested, the EUT complied with the standards above.

TABLE OF CONTENTS

1. TES	ST RESULTS SUMMARY	5
2. GE	NERAL INFORMATION	6
2.1.	Description of Device (EUT)	6
2.2.	Test Mode	6
2.3.	Accessory and Auxiliary Equipment	6
2.4.	Description of Test Facility	8
2.5.	Measurement Uncertainty	8
3. ME	ASURING DEVICE AND TEST EQUIPMENT	9
3.1.	For Conducted Emission Test	9
3.2.	For Radiated Emission Measurement	9
4. CO	NDUCTED EMISSION MEASUREMENT	10
4.1.	Block Diagram of Test Setup	10
4.2.	Conducted Emission Measurement Limits (Class A)	11
4.3.	Manufacturer	
4.4.	Operating Condition of EUT	11
4.5.	Test Procedure	11
4.6.	Data Explain	11
4.7.	Conducted Emission Measurement Results	12
5. RA	DIATED EMISSION MEASUREMENT	
5.1.	Block Diagram of Test Setup	15
5.2.	Radiated Emission Limit (Class A)	17
5.3.	Manufacturer	18
5.4.	Operating Condition of EUT	18
5.5.	Test Procedure	18
5.6.	Radiated Emission Measurement Result	19
6. PH	OTOGRAPHS	24
6.1.	Photo of Conducted Emission Measurement	24
6.2.	Photo of Radiation Emission Measurement	25
6.3	Photo of FLIT	26

DOCUMENT REVISION HISTORY

Report No.: RA230825-50054E-EM-00

Revision Number	Revision Number Report Number		Date of Revision
Rev.00	RA230825-50054E-EM-00	Original Report	2023-09-06

Version 20 2023-08-02 Page 3 of 40

Test Report Declaration

Report No.: RA230825-50054E-EM-00

Applicant : Seeed Technology Co., Ltd.

Manufacturer : Seeed Technology Co., Ltd.

Product : reServer Industrial

Model No. : J4012, J4011

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class A

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class A limits radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Version 20 2023-08-02 Page 4 of 40

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Conducted Emission (9kHz-30MHz)	FCC Part 15 Subpart B Class A	Pass
Radiated Emission (30-1000MHz)	FCC Part 15 Subpart B Class A	Pass
Radiated Emission (1- 10GHz)	FCC Part 15 Subpart B Class A	Pass

Report No.: RA230825-50054E-EM-00

Version 20 2023-08-02 Page 5 of 40

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product : reServer Industrial

Model No. : J4012

Multiple Model : J4011

Model Difference : J4012 and J4011 are the same except for different DDR(Double

Data Rate) size, we choose J4012 for testing.

Voltage Range : AC 100-240V, 50/60Hz with ground

(Note:The product comes with 2-pin terminal block power

Report No.: RA230825-50054E-EM-00

connector line. The line length is 0.2m.)

Remark(s) : The EUT's highest operating frequency is 2GHz more than

1GHz, the radiated emission measurement shall be made up to

10GHz.

Applicant : Seeed Technology Co., Ltd.

Address : 9F, G3 Building, TCL International E City, Zhongshanyuan Road,

Nanshan District, Shenzhen, Guangdong Province, P.R.C

Manufacturer : Seeed Technology Co., Ltd.

Address : 9F, G3 Building, TCL International E City, Zhongshanyuan Road,

Nanshan District, Shenzhen, Guangdong Province, P.R.C

Sample Number : 2AH7-1

Adapter Information: Model No.: PA-1121-24

Input: $100-240V = 2.0A \sim 50/60Hz 0.3A$

Output: 24V == 5A 120.0W

The adapter DC cable length is 1.5 meters with a ferrite core.

2.2.Test Mode

Test Mode 1: Working(Data communication)

2.3. Accessory and Auxiliary Equipment

1 touch panel Manufacturer

&model:unknown

2 Router Manufacturer:TP-LINK

Model:TL-R476G

3 USB disk*2 : SanDisk 32GB
4 Phone : Model: Xiaomi 12
5 Displayer : Manufacturer : Xiaomi

Version 20 2023-08-02 Page 6 of 40

Model:L43M5-ES

6 Mouse Manufacturer :A4TECH

Model:OP-550NU

7 Keyboard Manufacturer :A4TECH

Model: KB-US9813

8 SIM card : Manufacturer :China Telecom
9 External Manufacturer &model:unknown

Antenna*2

Note:

1. The touch panel, router and USB disk are provided by the applicant.

2. The two external antennas are used to connect to the two reserved antenna ports of the EUT for testing. The product is shipped without antenna, which is declared by applicant.

Report No.: RA230825-50054E-EM-00

2.3.1External I/O Cable

Cable Description	Length (m)	From Port(EUT)	То
2-pin terminal block power connector line	0.2	DCIN12-36V	Adapter
AC cable	1.5	Adapter	LISN
Network cable*4	0.85	LAN1/2/3/4(OUT)	Router
Network cable*1	0.85	LAN0(IN)	LAN Network
CAN lightning line	1	CAN(CL,CH,CG)	touch panel
RS485 lightning line	1	485	touch panel
Equipment geodetic line	1.2	EUT shell	ground
HDMI cable	1.5	HDMI	Displayer
USB cable	2	USB	Mouse
USB cable	2	USB	Keyboard
USB Type-C cable	1.5	USB device	Phone

Note:

- 2-pin terminal block power connector line, CAN lightning line, RS485 lightning line and equipment geodetic line are provided by the applicant.
- 2. The product comes with two Type-C ports, one is for device use, and the other is for set-up use.

Version 20 2023-08-02 Page 7 of 40

2.4. Description of Test Facility

Name of Firm : Shenzhen Accurate Technology Co., Ltd.

Site Location : Floor 1, KuMaKe Building, Dongzhou Community,

Guangming Street, Guangming District, Shenzhen,

Report No.: RA230825-50054E-EM-00

Guangdong, China

2.5.Measurement Uncertainty

Conduction Emission Expanded Uncertainty : U=2.74dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty : U=5.08dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty : U=4.96dB, k=2

(1GHz-18GHz)

Version 20 2023-08-02 Page 8 of 40

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1.For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date	
1.	EMI Test Receiver	Rohde&	ESCI	100784	2022/11/25	2023/11/24	
	LIVII TEST NECEIVE	Schwarz	2001	100701	2022/11/20	2020/11/24	
2.	L.I.S.N.	Rohde&	ENV216	101314	2022/11/25	2023/11/24	
۷.	2. L.1.5.IN.	Schwarz	LINVZIO	101314	2022/11/23	2023/11/24	
3.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	2022/12/07	2023/12/06	
4.	RF Coaxial Cable	Unknown	No.17	N0350	2022/11/25	2023/11/24	
5.	Conducted Emission Test Software: e3 191218 (V9)						

Report No.: RA230825-50054E-EM-00

3.2.For Radiated Emission Measurement

Item	Manufacturer	Equipment	Model No.	Serial No.	Calibration	Calibration	
пеш	Manufacturei	Equipment	Model No.	Serial No.	Date	Due Date	
1.	Rohde&	Test Receiver	ESR	102725	2022/11/25	2023/11/24	
١.	Schwarz	TCSt TCCCIVCI	ESK 10212		2022/11/25	2023/11/24	
2.	Rohde&	Spectrum	FSV40	101949	2022/11/25	2023/11/24	
۷.	Schwarz	Analyzer	13740	101949	2022/11/23	2023/11/24	
3.	SONOMA	Amplifier	310 N	186131	2022/11/08	2023/11/07	
٥.	INSTRUMENT	Ampililei	31011	100131	2022/11/00	2023/11/07	
4.	A.H. Systems,	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07	
4.	inc.	Freamplille	PAIVI-UTTOP 133		2022/11/00	ZUZ3/11/U <i>1</i>	
5	Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/7/6	2024/7/5	
6	Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21	
7	Unknown	RF Coaxial	No.10	N050	2022/11/25	2023/11/24	
'	Unknown	Cable	NO. 10	NUSU	2022/11/25	2023/11/24	
8	Unknown	RF Coaxial	No.11	N1000	2022/11/25	2023/11/24	
0	OHKHOWH	Cable	INO. I I	14 1000	2022/11/25	2023/11/24	
9	Unknown	RF Coaxial	No.12	N040	2022/11/25	2023/11/24	
9	Ulkilowii	Cable	NO. 12	11040	2022/11/25	2023/11/24	
10	I below accord	RF Coaxial	No. 42	Nago	2022/44/25	2022/44/24	
10	Unknown	Cable	No.13	N300	2022/11/25	2023/11/24	
11	I lealers access	RF Coaxial	N - 44	NOOO	00004445	0000/44/04	
''	Unknown	Cable	No.14	N800	2022/11/25	2023/11/24	
12	Radiated Emissi	on Test Software:	e3 191218 (V9))			

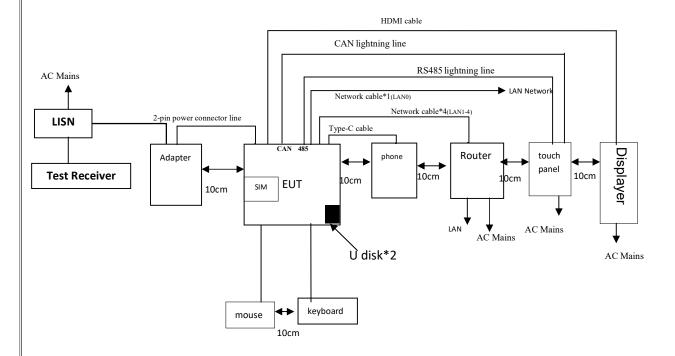
Version 20 2023-08-02 Page 9 of 40

4. CONDUCTED EMISSION MEASUREMENT

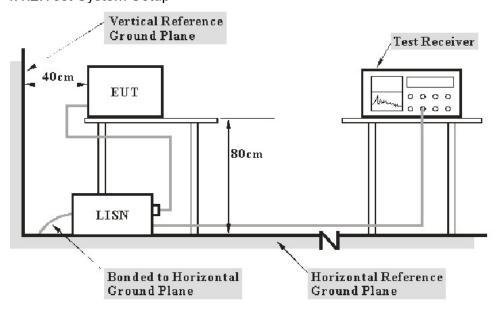
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

Report No.: RA230825-50054E-EM-00



4.1.2.Test System Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

Version 20 2023-08-02 Page 10 of 40

4.2. Conducted Emission Measurement Limits (Class A)

Frequency	Limit dB(μV)				
(MHz)	Quasi-peak Level	Average Level			
0.15 - 0.50	79.0	66.0			
0.50 - 30.00	73.0	60.0			
NOTE1: The lower limit shall apply at the transition frequencies.					

Report No.: RA230825-50054E-EM-00

4.3.Manufacturer

The following equipments are installed on Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3.Let the EUT work in test mode1 and measure it.

4.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

4.6.Data Explain

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Version 20 2023-08-02 Page 11 of 40

4.7.Conducted Emission Measurement Results Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55 %
ATM Pressure:	99.55kPa

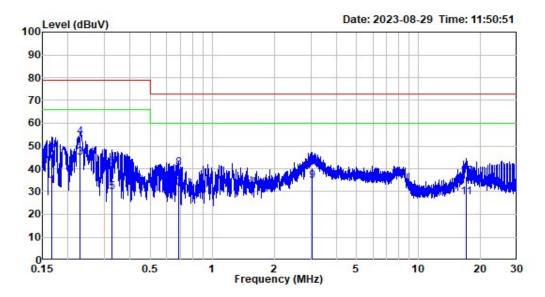
The testing was performed by Jeef Huang from 2023-08-29.

Test Result: Pass. The spectral diagrams are shown in the following pages.

Report No.: RA230825-50054E-EM-00

Version 20 2023-08-02 Page 12 of 40

AC 120V/60Hz, Line:



Site : Shielding Room

Condition: Line

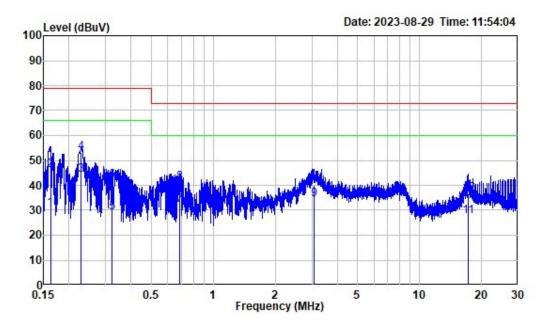
Job No. : RA230825-50054E-EM

Test Mode: Test Mode 1

			Read		Limit	Over	
	Freq	Factor	Level	Level	Line	Limit	Remark
163-	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.167	9.98	22.54	32.52	66.00	-33.48	Average
2	0.167	9.98	36.26	46.24	79.00	-32.76	QP
3	0.229	10.00	34.78	44.78	66.00	-21.22	Average
4	0.229	10.00	43.84	53.84	79.00	-25.16	QP
5	0.326	10.02	19.97	29.99	66.00	-36.01	Average
6	0.326	10.02	30.86	40.88	79.00	-38.12	QP
7	0.688	10.16	21.22	31.38	60.00	-28.62	Average
8	0.688	10.16	30.26	40.42	73.00	-32.58	QP
9	3.054	10.45	24.20	34.65	60.00	-25.35	Average
10	3.054	10.45	29.98	40.43	73.00	-32.57	QP
11	17.007	14.84	12.77	27.61	60.00	-32.39	Average
12	17.007	14.84	21.60	36.44	73.00	-36.56	QP

Version 20 2023-08-02 Page 13 of 40

AC 120V/60Hz, Neutral:



Site : Shielding Room

Condition: Neutral

Job No. : RA230825-50054E-EM

Test Mode: Test Mode 1

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
10-	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.162	10.18	20.46	30.64	66.00	-35.36	Average
2	0.162	10.18	35.86	46.04	79.00	-32.96	QP
3	0.229	10.21	34.07	44.28	66.00	-21.72	Average
4	0.229	10.21	43.08	53.29	79.00	-25.71	QP
5	0.323	10.27	18.85	29.12	66.00	-36.88	Average
6	0.323	10.27	31.48	41.75	79.00	-37.25	QP
7	0.687	9.90	22.19	32.09	60.00	-27.91	Average
8	0.687	9.90	31.34	41.24	73.00	-31.76	QP
9	3.086	10.22	24.17	34.39	60.00	-25.61	Average
10	3.086	10.22	29.77	39.99	73.00	-33.01	QP
11	17.199	14.88	12.54	27.42	60.00	-32.58	Average
12	17.199	14.88	21.75	36.63	73.00	-36.37	QP

Note:

- 1. The frequency range from 150 kHz to 30MHz is investigated
- 2. Emissions attenuated more than 20 dB below the permissible value are not reported.

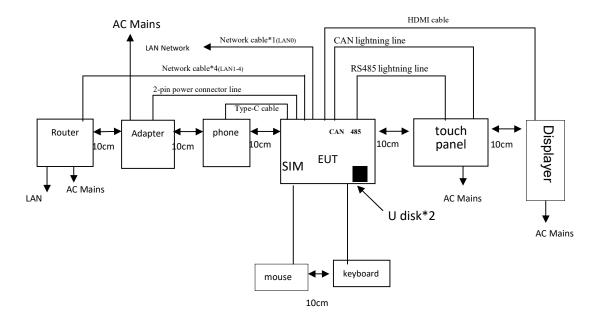
Version 20 2023-08-02 Page 14 of 40

5. RADIATED EMISSION MEASUREMENT

5.1.Block Diagram of Test Setup

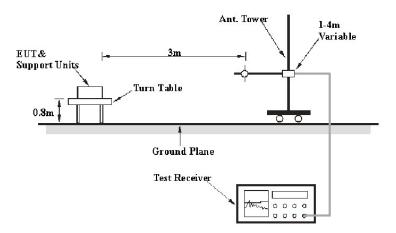
5.1.1.Block diagram of connection between the EUT and simulators

Report No.: RA230825-50054E-EM-00



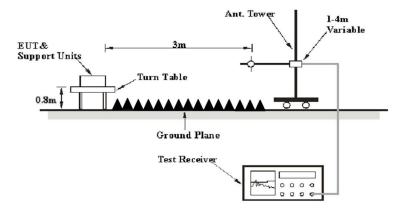
5.1.2.Test System Setup

Below 1GHz:



Version 20 2023-08-02 Page 15 of 40

Above 1GHz:



Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

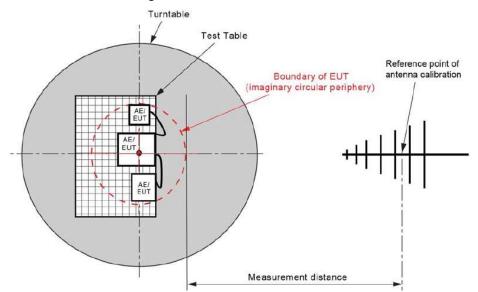


Figure C.1 – Measurement distance

Version 20 2023-08-02 Page 16 of 40

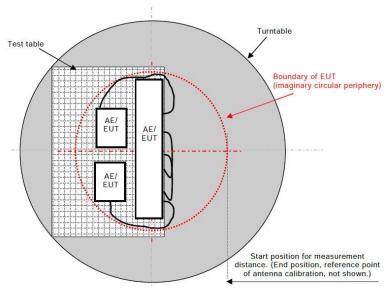


Figure C.2 – Boundary of EUT, Local AE and associated cabling The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

5.2.Radiated Emission Limit (Class A)

All emanations from a class A device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency	Distance	Field Strengths QP Limit
MHz	Meters	dB(μV/m)
30-88	3	49.54
88-216	3	53.98
216-960	3	56.9
960-1000	3	60.0

Remark:

- (1) Emission level $dB(\mu V/m) = 20 \log Emission level \mu V/m$.
- (2)The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

Frequency	Distance	Field Strengths Limit	
MHz	Meters	Peak AVG	
		$dB(\mu V/m)$ $dB(\mu V/m)$	
1000-10000	3	80.0 60.0	

Version 20 2023-08-02 Page 17 of 40

5.3.Manufacturer

The following equipment are installed on Radiated Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

Report No.: RA230825-50054E-EM-00

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in test mode1 and measure it.

5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated blog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the Receiver (ESR) is set at 9 kHz in 150kHz-30MHz, 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 30MHz to 10000MHz is investigated.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

Version 20 2023-08-02 Page 18 of 40

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

Report No.: RA230825-50054E-EM-00

Over Limit= Level – Limit Level = Read Level + Factor

5.6.Radiated Emission Measurement Result

Environmental Conditions

Temperature:	23-24 °C
Relative Humidity:	50-56 %
ATM Pressure:	99.55 kPa

The Below 1GHz testing was performed by Jason Liu on 2023-08-29.

The Above 1GHz testing was performed by Jimi Zheng on 2023-08-29

Input power: AC120V 60Hz

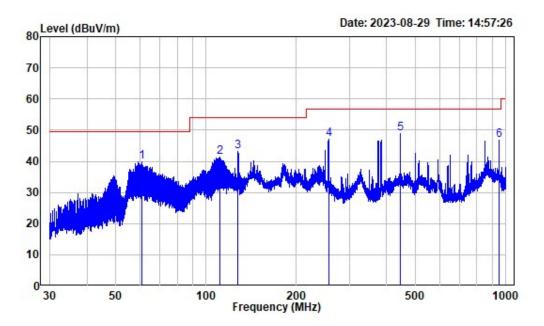
The frequency range from 30MHz to 10000 MHz is investigated.

Test Result: Pass. The spectral diagrams are shown in the following pages.

Version 20 2023-08-02 Page 19 of 40

Below 1GHz

Horizontal



Site : chamber

Condition: 3m HORIZONTAL

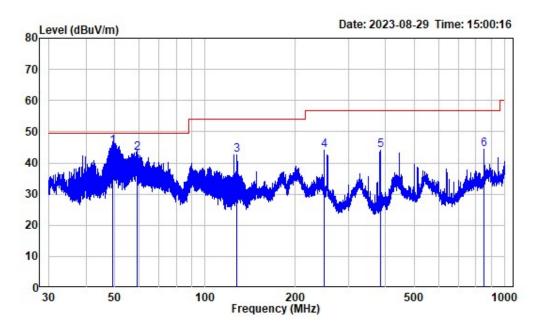
Job No. : RA230825-50054E-EM

Test Mode: Test Mode 1

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	61.105	-11.07	50.99	39.92	49.54	-9.62	Peak
2	111.006	-12.10	53.36	41.26	53.98	-12.72	Peak
3	127.833	-14.67	57.71	43.04	53.98	-10.94	Peak
4	256.072	-10.61	57.85	47.24	56.90	-9.66	Peak
5	445.632	-5.63	54.59	48.96	56.90	-7.94	Peak
6	950.009	2.05	44.68	46.73	56.90	-10.17	Peak

Version 20 2023-08-02 Page 20 of 40

Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : RA230825-50054E-EM

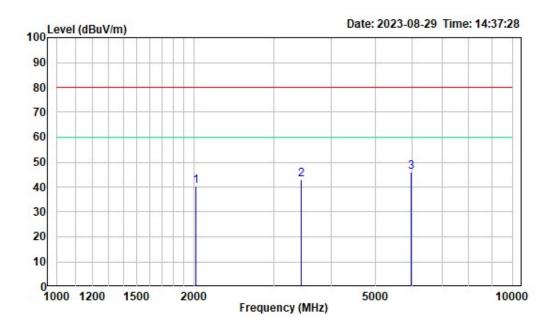
Test Mode: Test Mode 1

	Freq	Factor			Limit Line		Remark
- 65	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	49.036	-9.96	55.11	45.15	49.54	-4.39	QP
	59.467	-10.43	53.45	43.02	49.54	-6.52	QP
3	127.777	-14.67	57.34	42.67	53.98	-11.31	Peak
4	249.972	-10.74	54.89	44.15	56.90	-12.75	Peak
5	383.764	-7.08	51.19	44.11	56.90	-12.79	Peak
6	850.290	0.36	44.12	44.48	56.90	-12.42	Peak

Version 20 2023-08-02 Page 21 of 40

Above 1GHz (1-10 GHz)

Horizontal



Site : chamber

Condition: 3m HORIZONTAL

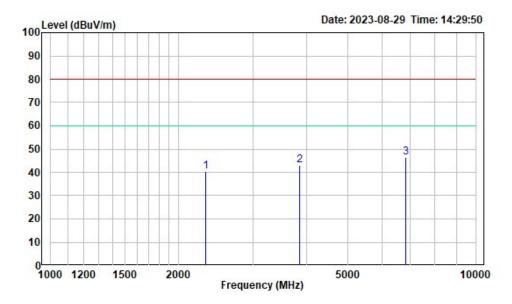
Job No. : RA230825-50054E-EM

Test Mode: Test Mode 1

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2019.000	-12.23	52.54	40.31	80.00	-39.69	Peak
2	3435.000	-9.82	52.77	42.95	80.00	-37.05	Peak
3	5974.000	-0.50	46.53	46.03	80.00	-33.97	Peak

Version 20 2023-08-02 Page 22 of 40

Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : RA230825-50054E-EM

Test Mode: Test Mode 1

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2316.000	-10.39	50.66	40.27	80.00	-39.73	Peak
2	3859.000	-8.71	51.85	43.14	80.00	-36.86	Peak
3	6844.000	0.19	46.18	46.37	80.00	-33.63	Peak

Note:

- 1) Level= Reading + Factor
- 2) Margin = Level-Limit
- 3) For below 1GHz testing, if the maximized peak measured value complies with the limit, then it is unnecessary to perform QP measurement.
- 4) For above 1GHz testing, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Version 20 2023-08-02 Page 23 of 40

6. PHOTOGRAPHS

6.1.Photo of Conducted Emission Measurement

Conducted Emissions

Report No.: RA230825-50054E-EM-00



Version 20 2023-08-02 Page 24 of 40

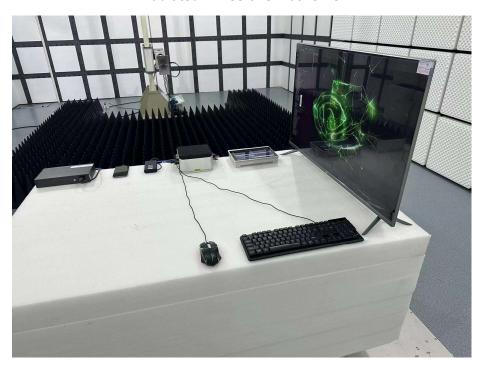
6.2.Photo of Radiation Emission Measurement



Report No.: RA230825-50054E-EM-00



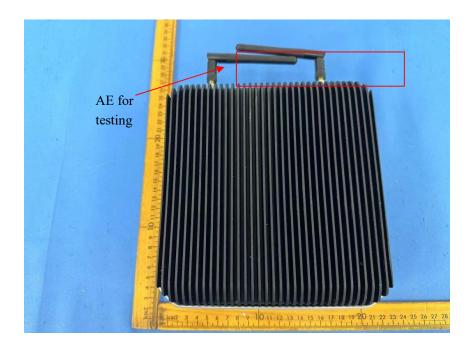
Radiated Emissions-Above 1G



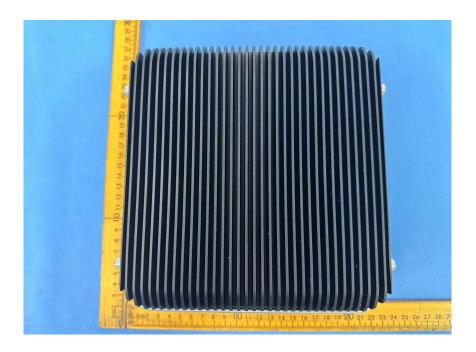
Version 20 2023-08-02 Page 25 of 40

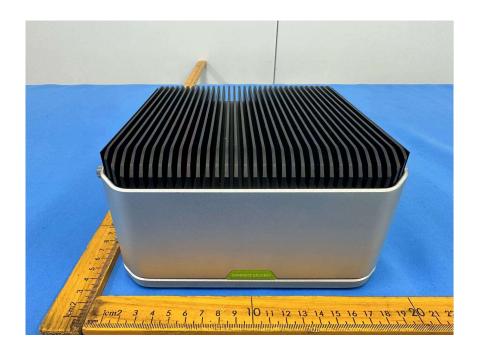
6.3.Photo of EUT





Version 20 2023-08-02 Page 26 of 40





Version 20 2023-08-02 Page 27 of 40



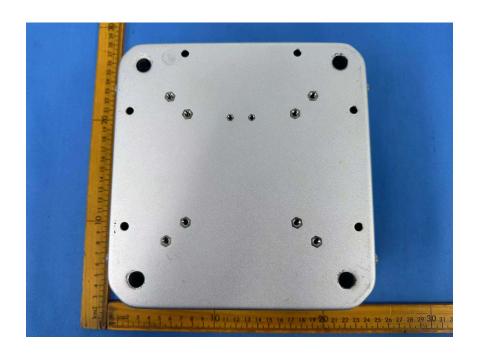


Version 20 2023-08-02 Page 28 of 40





Version 20 2023-08-02 Page 29 of 40





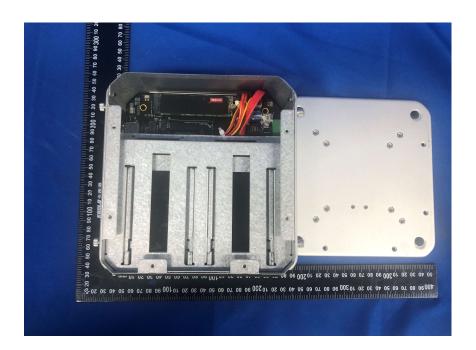
Version 20 2023-08-02 Page 30 of 40





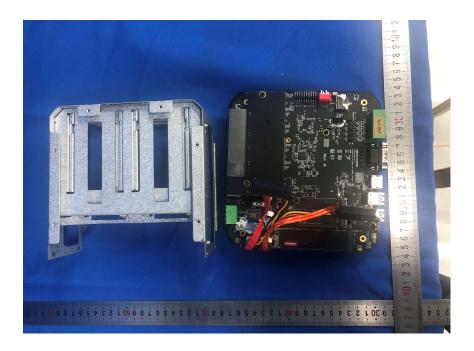
Version 20 2023-08-02 Page 31 of 40





Version 20 2023-08-02 Page 32 of 40





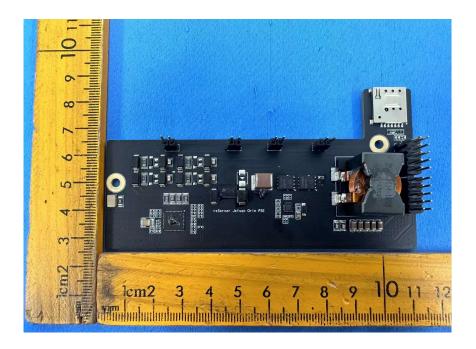
Version 20 2023-08-02 Page 33 of 40



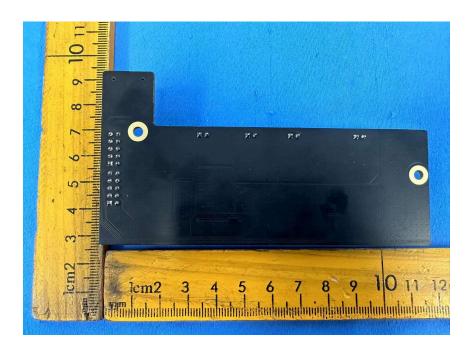


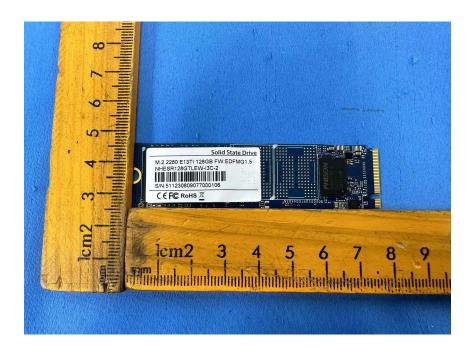
Version 20 2023-08-02 Page 34 of 40



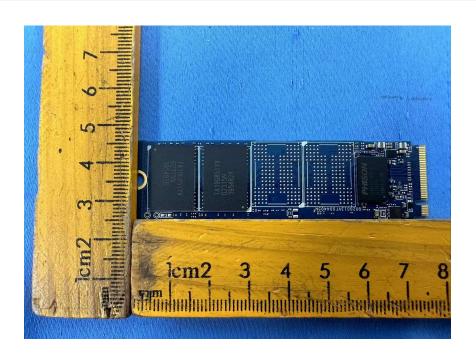


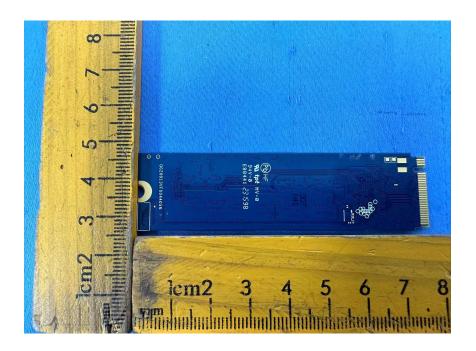
Version 20 2023-08-02 Page 35 of 40





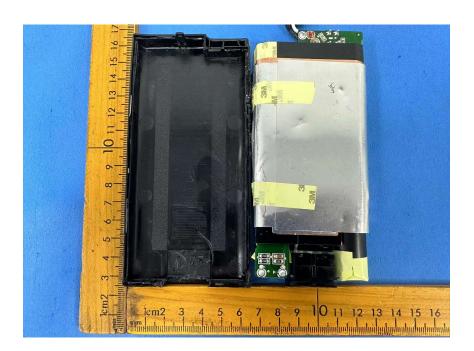
Version 20 2023-08-02 Page 36 of 40



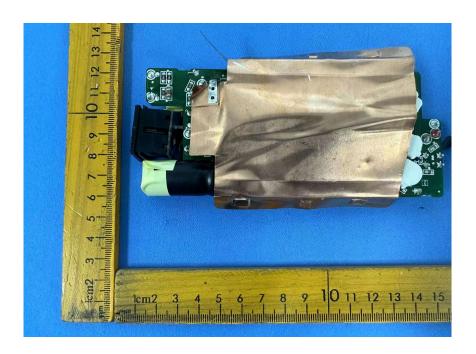


Version 20 2023-08-02 Page 37 of 40





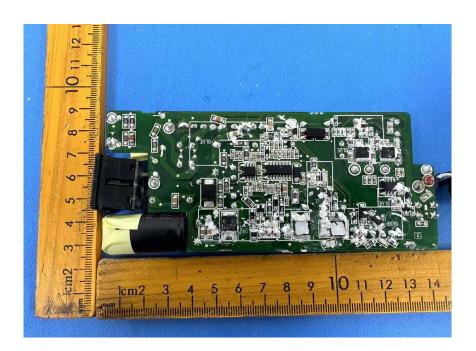
Version 20 2023-08-02 Page 38 of 40





Version 20 2023-08-02 Page 39 of 40





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Version 20 2023-08-02 Page 40 of 40