

TEST REPORT

For

IoT Gateway

In conformity with

FCC Part15 Subpart B (October 01, 2020)

Model: GW-402, GW-404, GW-402i, GW-404i

Test Item: IoT Gateway

Report No: WE220209AB9-12

Issue Date: August 23, 2022

Prepared for

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Prepared by

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History

Report No.	Issued date	Revision Contents	Issued by
WE190911AB9-21	October 28, 2019	Initial Issue	R. Kojima
WE220209AB9-11	March 1, 2022	Changed manufacturer name to GUGEN, Inc. Addition of family models (GW-402i, GW-404i)	R. Kojima
WE220209AB9-12	August 23, 2022	Retest Section 2. Section 1.7 revised.	R. Kojima

1 General information

1.1 Product description

Test item	: IoT Gateway
Manufacturer	: GUGEN, Inc.
Address	: 4F Shinanobashi Toyo Building, 1-12-4 Utsubohonmachi, Nishi-ku, Osaka 550-0004 JAPAN
Tested Model(s)	: GW-402, GW-404
Max. Internal Frequency	: 168 MHz
Receipt date of EUT	: August 18, 2022
Rating	: 12 Vdc (-10%) to 24 Vdc (+20%) (when supplied from serial communication interface 5 Vdc ($\pm 5\%$))
Tested Voltage	: 24 Vdc (Worst case)
Serial numbers	: 5902-8142-8129-798 (GW-402), 5902-9336-9317-088 (GW-404)
Hardware Version	: MP
Software Version	: hwtest ver.

***Information is based on manufacturer's information**

1.2 Family model(s)

Model(s)	: GW-402i, GW-404i
Difference from tested model	: Difference in connected carriers of installed eSIM Front membrane sheet design

***Information is based on manufacturer's information**

1.3 Test(s) performed/ Summary of test result

Applicable Standard(s) : Part15 Subpart B (October 01, 2020)
Test method(s) : ANSI C63.4: 2014
Test(s) started : August 18, 2022
Test(s) completed : August 23, 2022
Summary of test result : Complied

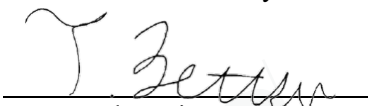
Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.
The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.
Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

Engineer

: 

Ryo Kojima
Engineer
EMC Laboratory

Reviewer

: 

Takanori Zettsu
Engineer
EMC Laboratory

1.4 Test facility

The federal Communications Commission has reviewed the technical characteristics of the test facilities at SGS Japan Inc. Kitayamata Lab, located in 3-5-23, Kitayamata, Tsuzuki-ku Yokohama 224-0021 JAPAN and has found these test facilities to be in compliance with the requirements of 47 CFR part 15, section 2.948.

The description of the test facilities has been filed under registration number 319924 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The list of all public test facilities is available on the Internet at <http://www.fcc.gov>.

Registered by Innovation, Science and Economic Development Canada (ISED):
The registered CAB identifier is JP0009.

Accredited by **National Voluntary Laboratory Accreditation Program (NVLAP)** for the emission tests stated in the scope of the certificate under Certificate Number 200780-0.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.



1.5 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in “Guide to the expression of uncertainty in measurement (GUM)” published by ISO. The Lab’s uncertainty is determined by referring UKAS Publication LAB34: 2002 “The Expression of Uncertainty in EMC Testing” and CISPR16-4-2: 2011 “Uncertainty in EMC Measurements”.

The uncertainty of the measurement result in the level of confidence of approximately 95% (k=2) is as follows;

AC Power line emission : ± 3.3 dB

Radiated emission (30 MHz – 1000 MHz) : ± 5.9 dB

Radiated emission (1.0 GHz - 2.0 GHz) : ± 4.0 dB

1.6 Description of essential requirements and test results

An overview of test requirements, as laid out in FCC Part15 Subpart B

1.6.1 Test requirements (FCC Part15 Subpart B)

Test Description	Section in this report	Applicable	Result
Conducted emission (FCC Part15.107) 0.15 MHz – 30 MHz	2.1	Yes	Passed
Radiated emission (FCC Part15.109) 30 MHz – 2.0 GHz*Note	2.2	Yes	Passed

*Note: The EUT has 168 MHz internal highest frequencies.

1.6.2 Normal test conditions

Temperature : +15 degC to +35 degC

Relative humidity : 20 % to 75 %

Supply voltage : 24 Vdc

1.7 Setup of equipment under test (EUT)

1.7.1 Test configuration of EUT (GW-402 / RS-232C mode)

Equipment(s) under test

	Equipment	Model No.	Manufacturer	Serial No.	Remark
1	IoT Gateway	GW-402	GUGEN, Inc.	5902-8142-8129-798	-

Auxiliary equipment (s):

	Equipment	Model No.	Manufacturer	Serial No.	Remark
2	PC	Vostro 3582	DELL	35166090278	-
3	AC adaptor 1	LA45NM140	DELL	CN-0KXTTW- LOC00-953-76CB- A09	-
4	Switching Power Supply (24V)	MS2-H50	KEYENCE	#G7L021514	-
5	HUB	LAN-SW05/PC	Logitec	53L220700631C	-
6	PLC 1	KV-7300	KEYENCE	#6Q020057	-
7	PLC 2	KV-7000C	KEYENCE	#6Q020038	-
8	Serial Interface Module	KV-L21V	KEYENCE	#G6L122170	-
9	IO Unit	KV-B8XTD	KEYENCE	#7P020277	-
10	AC adaptor 2	LA-5W5S-1	Logitec	-	-

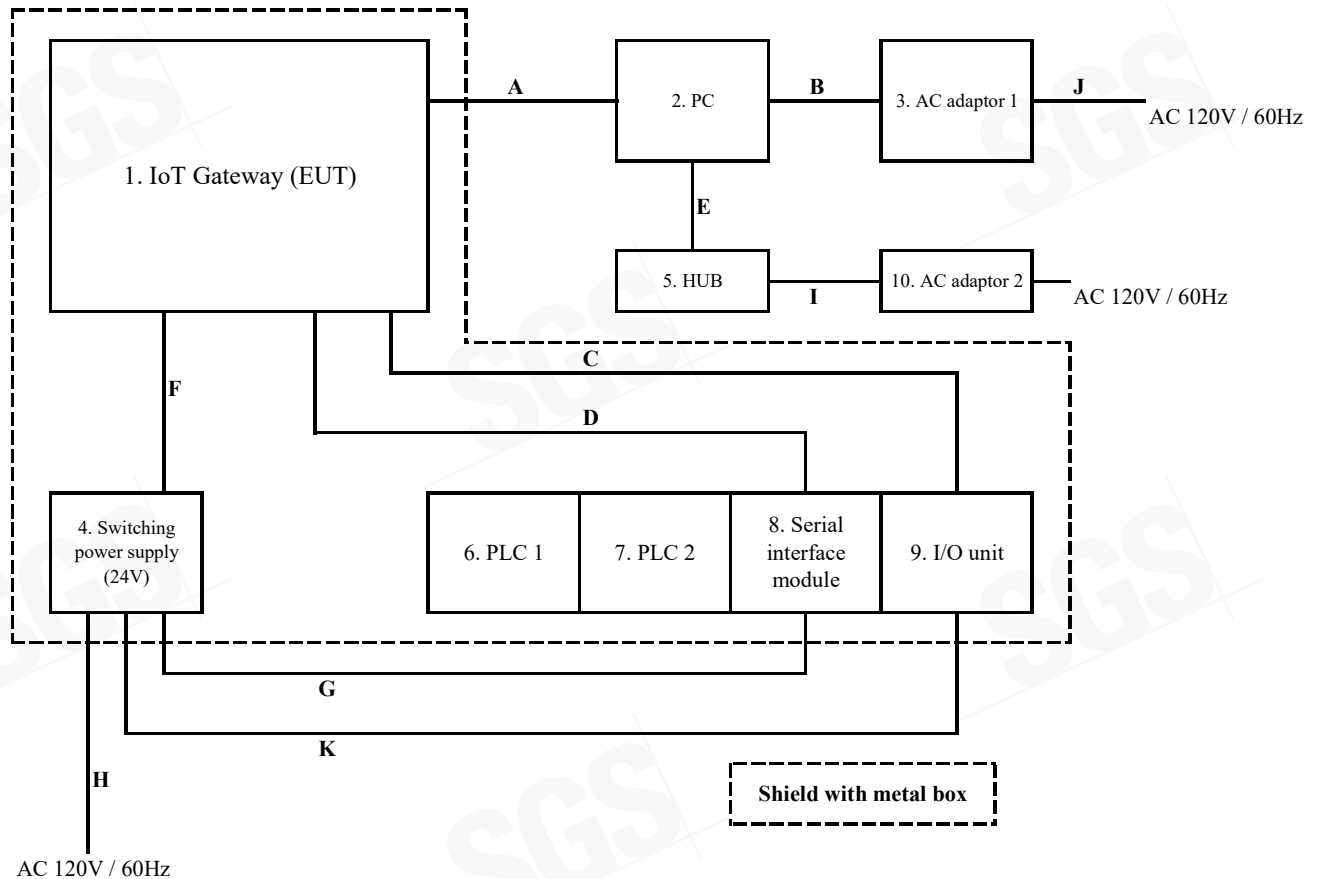
The following cables were used and connected to the EUT

No	Cable Name	Length (m)	Shielded	Ferrite core / Turns
A	USB cable	1.8	Yes	-
B	DC power 1	1.7	No	-
C	DIDO	3.0	Yes	-
D	RS-232C	15.0	Yes	-
E	LAN	3.0	No	-
F	DC power (24V) 1	0.7	No	-
G	DC power (24V) 2	0.2	No	-
H	AC power 1	2.0	No	-
I	DC power 4	2.0	No	-
J	AC power 2	0.9	No	-
K	DC power 3	0.1	No	-

1.7.2 Operating condition

Test operation with internal firmware.

1.7.3 Setup diagram of tested system (GW-402 / RS-232C mode)



*Information is based on manufacturer's information

1.7.4 Test configuration of EUT (GW-404 / RS485 mode)

Equipment(s) under test

	Equipment	Model No.	Manufacturer	Serial No.	Remark
1	IoT Gateway	GW-404	GUGEN, Inc.	5902-9336-9317-088	-

Auxiliary equipment (s):

	Equipment	Model No.	Manufacturer	Serial No.	Remark
2	PC	Vostro 3582	DELL	35166090278	-
3	AC adaptor 1	LA45NM140	DELL	CN-0KXTTW- LOC00-953-76CB- A09	-
4	Switching Power Supply (24V)	MS2-H50	KEYENCE	#G7L021514	-
5	HUB	LAN-SW05/PC	Logitec	53L220700631C	-
6	PLC 1	KV-7300	KEYENCE	#6Q020057	-
7	PLC 2	KV-7000C	KEYENCE	#6Q020038	-
8	Serial Interface Module	KV-L21V	KEYENCE	#G6L122170	-
9	IO Unit	KV-B8XTD	KEYENCE	#7P020277	-
10	AC adaptor 2	LA-5W5S-1	Logitec	-	-

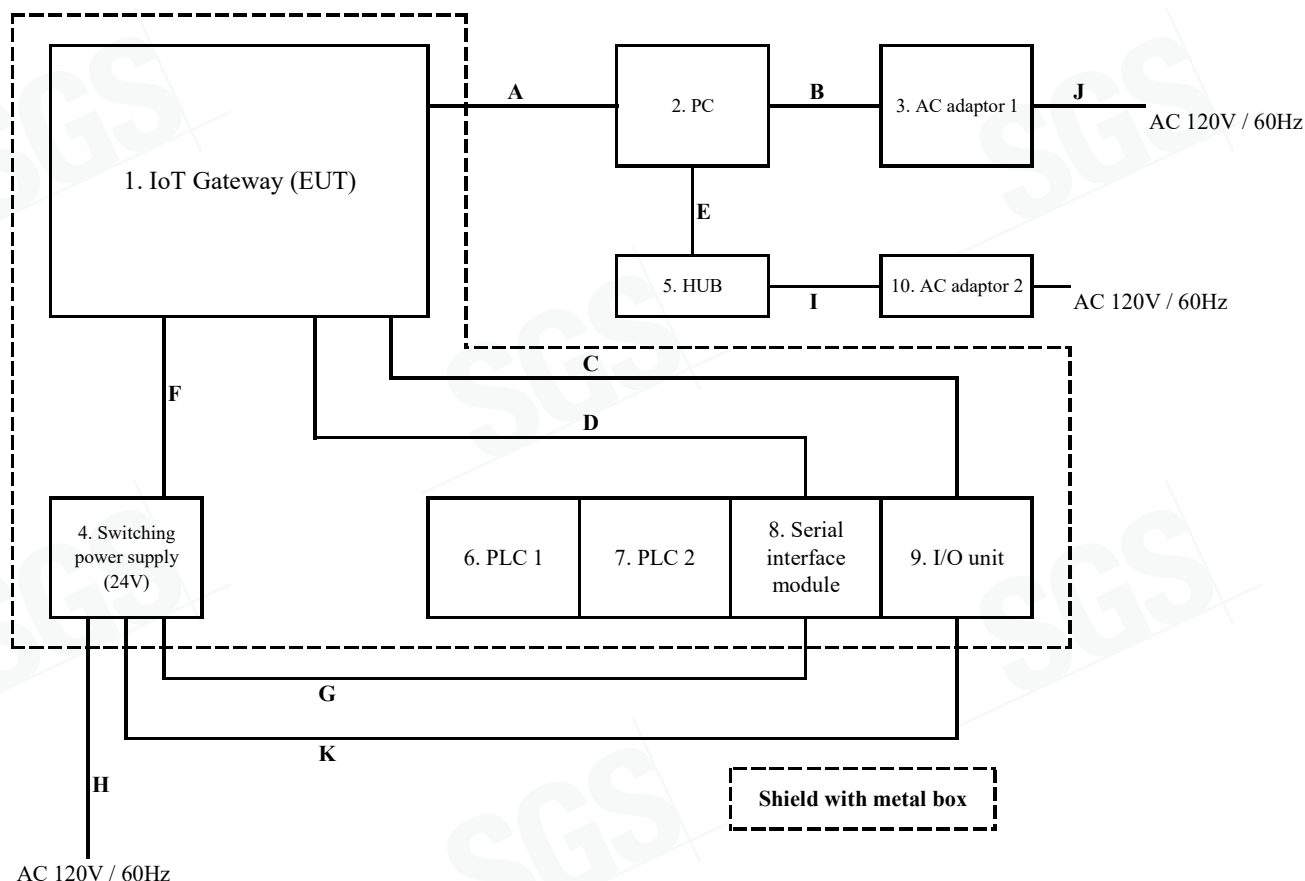
The following cables were used and connected to the EUT

No	Cable Name	Length (m)	Shielded	Remarks
A	USB cable	1.8	Yes	-
B	DC power 1	1.7	No	-
C	DIDO	3.0	Yes	-
D	RS485	3.0	Yes	-
E	LAN	3.0	No	-
F	DC power (24V) 1	0.7	No	-
G	DC power (24V) 2	0.2	No	-
H	AC power 1	2.0	No	-
I	DC power 4	2.0	No	-
J	AC power 2	0.9	No	-
K	DC power (24V) 3	0.1	No	-

1.7.5 Operating condition

Test operation with internal firmware.

1.7.6 Setup diagram of tested system (GW-404 / RS485 mode)



*Information is based on manufacturer's information

1.8 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

1.9 Deviation from the standard

No deviations from the standards described in clause 1.2.

2 Test procedure and result

2.1 AC power line conducted emissions

Reference Standard

FCC Part15.107

Test Conditions

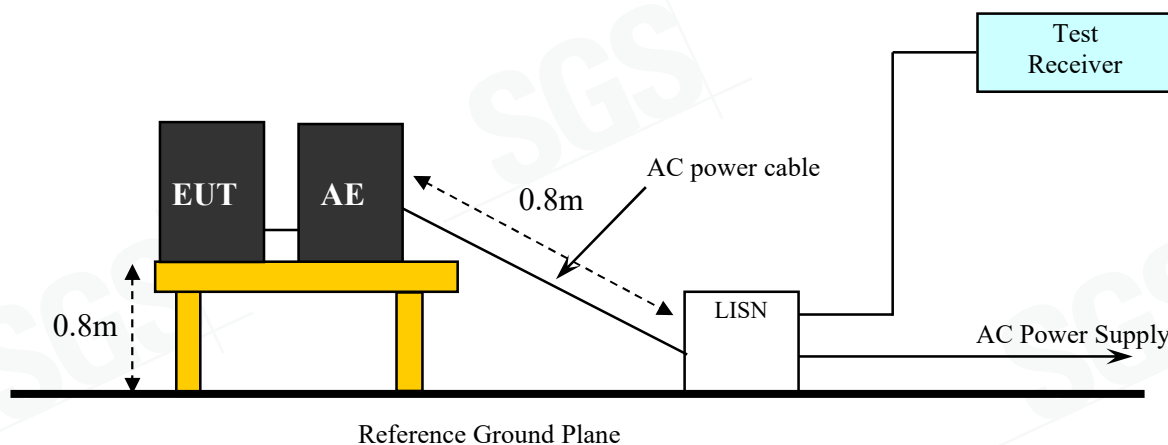
Date: August 18, 2022
Ambient Temperature: 23 deg. C
Relative humidity: 50 %
Atmosphere: 995 hPa

Test Method

- The EUT was running.
- AC power (AE side) is supplied to through LISN.
- AC Power Line emission is measured by EMI receiver.

The disturbance voltage was measured using a LISN with a quasi-peak (QP) and average (AV) detector of receiver

Test Setup



Limit
(Class A Digital devices)

Frequency [MHz]	Limit QP [dB μ V]	Limit AV [dB μ V]
0.15 - 0.5	79	66
0.5 - 5	73	60
5 - 30	73	60

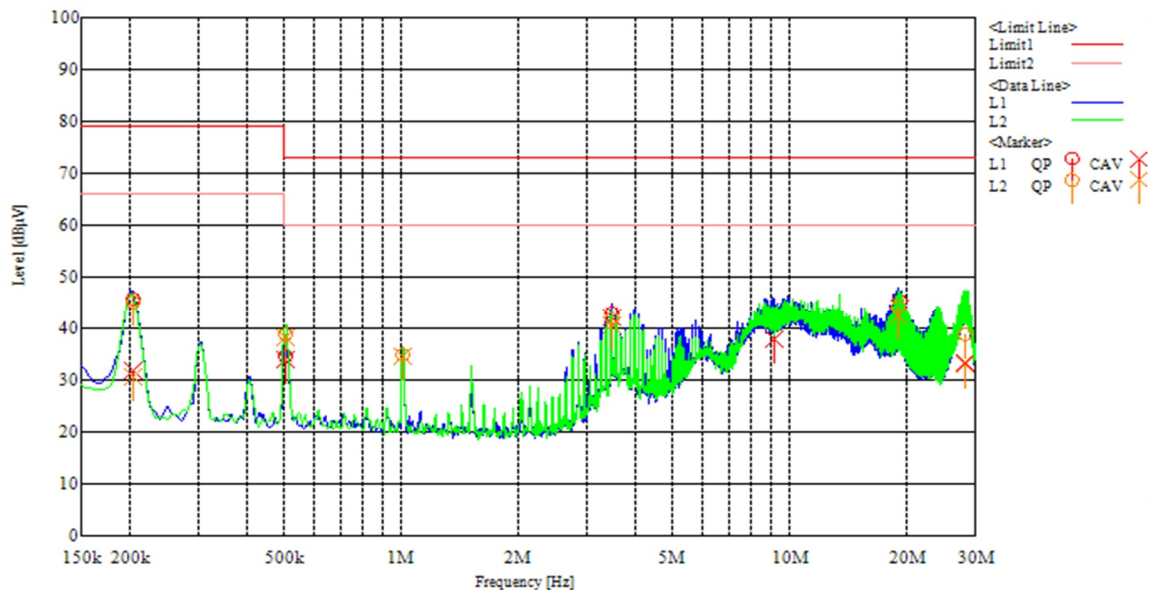
Test Results AC power ports(AE side) / GW-402(RS-232C) mode, 24V mode (Worst)

No.	Frequency [MHz]	QP Reading [dBμV]	AV Reading [dBμV]	C.Factor [dB]	QP Result [dBμV]	AV Result [dBμV]	QP Limit [dBμV]	AV Limit [dBμV]	QP Margin [dB]	AV Margin [dB]	Line
1	0.20514	35.3	21.5	10.3	45.6	31.8	79.0	66.0	33.4	34.2	L1
2	0.50725	24.4	23.7	10.2	34.6	33.9	73.0	60.0	38.4	26.1	L1
3	3.48612	32.9	32.0	10.2	43.1	42.2	73.0	60.0	29.9	17.8	L1
4	9.12599	30.7	27.6	10.3	41.0	37.9	73.0	60.0	32.0	22.1	L1
5	19.27509	35.1	33.7	10.2	45.3	43.9	73.0	60.0	27.7	16.1	L1
6	28.50300	28.5	23.2	10.2	38.7	33.4	73.0	60.0	34.3	26.6	L1
7	0.20514	34.9	20.4	10.3	45.2	30.7	79.0	66.0	33.8	35.3	L2
8	0.50707	28.5	28.0	10.2	38.7	38.2	73.0	60.0	34.3	21.8	L2
9	1.01419	24.7	24.3	10.2	34.9	34.5	73.0	60.0	38.1	25.5	L2
10	3.48638	31.5	30.5	10.2	41.7	40.7	73.0	60.0	31.3	19.3	L2
11	19.07254	34.0	32.0	10.3	44.3	42.3	73.0	60.0	28.7	17.7	L2
12	28.40384	28.6	22.9	10.2	38.8	33.1	73.0	60.0	34.2	26.9	L2

The Correction Factors and RESULT are calculated as followings.

Examples: 19.27509 MHz (AV): Reading (33.7dBμV) + C.F (10.2dB) = Result (43.9dBμV)
C.F = Cable Loss (dB) + LISN Factor (dB)

Graphical Data



Limit 1: QP
Limit 2: AV

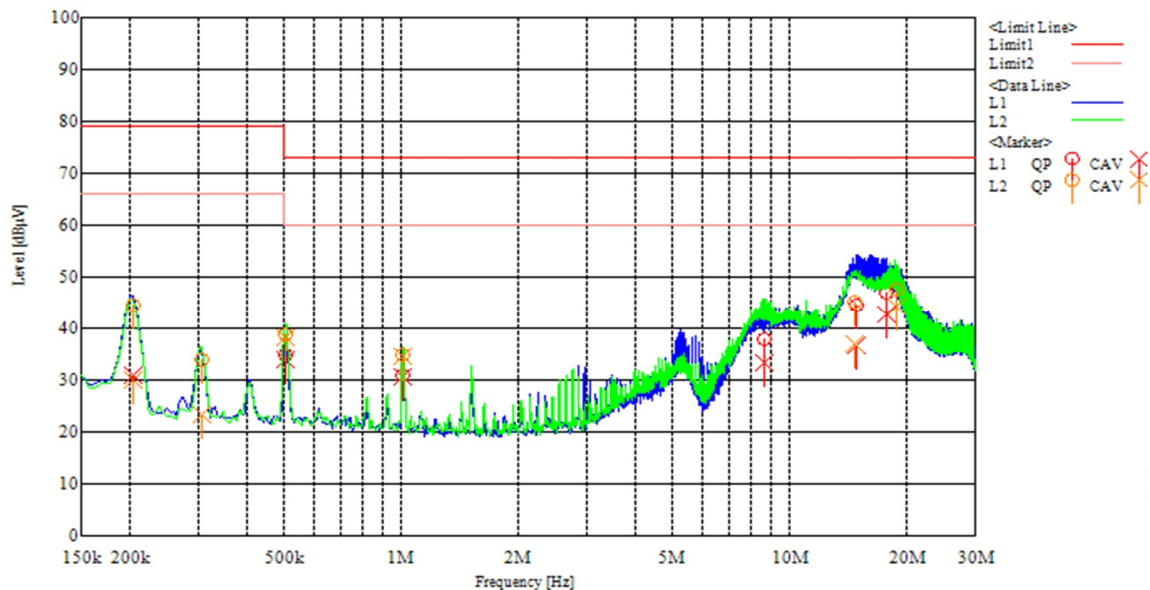
Test Results AC power ports (AE side) / GW-404(RS485) mode, 24V mode (Worst)

No.	Frequency [MHz]	QP Reading [dBμV]	AV Reading [dBμV]	C.Factor [dB]	QP Result [dBμV]	AV Result [dBμV]	QP Limit [dBμV]	AV Limit [dBμV]	QP Margin [dB]	AV Margin [dB]	Line
1	0.20510	34.2	20.7	10.3	44.5	31.0	79.0	66.0	34.5	35.0	L1
2	0.50717	24.5	23.8	10.2	34.7	34.0	73.0	60.0	38.3	26.0	L1
3	1.01422	20.8	20.4	10.2	31.0	30.6	73.0	60.0	42.0	29.4	L1
4	8.61528	27.7	23.1	10.3	38.0	33.4	73.0	60.0	35.0	26.6	L1
5	14.86205	34.3	26.3	10.3	44.6	36.6	73.0	60.0	28.4	23.4	L1
6	17.84590	36.5	32.5	10.3	46.8	42.8	73.0	60.0	26.2	17.2	L1
7	0.20513	34.1	19.8	10.3	44.4	30.1	79.0	66.0	34.6	35.9	L2
8	0.30769	23.6	13.2	10.2	33.8	23.4	79.0	66.0	45.2	42.6	L2
9	0.50714	28.7	28.1	10.2	38.9	38.3	73.0	60.0	34.1	21.7	L2
10	1.01437	24.6	24.3	10.2	34.8	34.5	73.0	60.0	38.2	25.5	L2
11	14.79008	34.8	26.7	10.3	45.1	37.0	73.0	60.0	27.9	23.0	L2
12	18.86941	37.3	33.9	10.3	47.6	44.2	73.0	60.0	25.4	15.8	L2

The Correction Factors and RESULT are calculated as followings.

Examples: 18.86941 MHz (AV): Reading (33.9dBuV) + C.F (10.3dB) = Result (44.2dBuV)
C.F = Cable Loss (dB) + LISN Factor (dB)

Graphical Data



Limit 1: QP
Limit 2: AV

Test Equipment Used

RFT ID No.	Kind of Equipment and Precision	Manufacturer	Model No.	Serial Number	Calibration Date	Calibrated until
LN17	LISN	Kyoritsu	TNW-407F2	12-15-53	2022/4/22	2023/4/30
LN13	LISN (For AE side)	Kyoritsu	KNW-407F	8-2003-3	2022/7/15	2023/7/31
TA21	Dummy Load (For AE side)	HIROSE	BNC-TMP-1(52)	-	2022/1/11	2023/1/31
CL72	RF Cable for CE	RFT	-	-	2022/1/11	2023/1/31
TR10	Test Receiver (F/W : 3.66)	Rohde & Schwarz	ESR26	101313	2022/4/1	2023/4/30
SW19	EMI measurement software	SGS Japan	EMII (Ver. 6.2)	-	-	-

Final Result

The EUT met the requirements of the standard for this test

2.2 Radiated Emissions

Reference Standard

FCC Part15.109

Test Conditions for 30-1000 MHz

Date: August 23, 2022
Ambient Temperature: 22 deg. C
Relative humidity: 65 %
Atmosphere: 1004 hPa

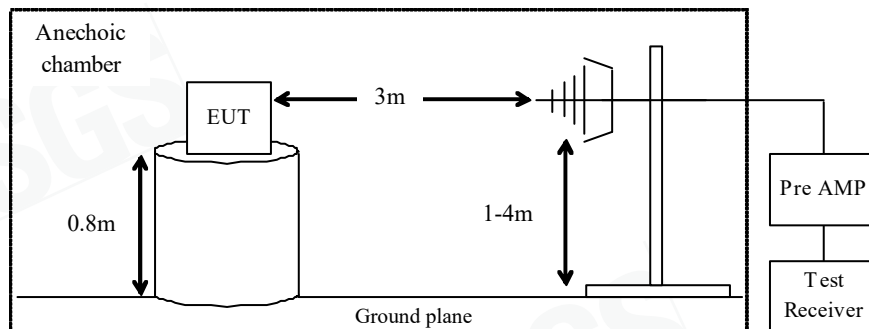
Test Method (30-1000 MHz)

- a) The EUT was running.
- b) Radiated spurious emission is received by receive antenna.
- c) Turn table is rotated 360deg.
- d) Maximum level of each spurious is measured by test receiver.
- e) RBW of test receiver is set to 120kHz for 30 - 1000MHz.
- f) Level is measured with QP detect for 30 - 1000MHz.

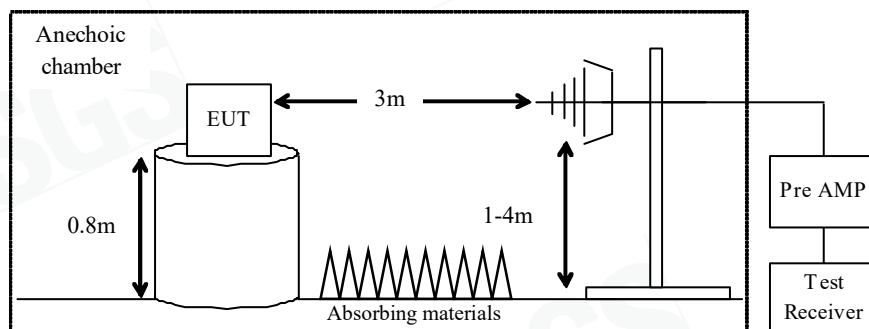
Test Method (1-2 GHz)

- a) The EUT was running.
- b) Radiated spurious emission is received by receive antenna.
- c) Turn table is rotated 360deg.
- d) Maximum level of each spurious is measured by test receiver.
- e) RBW of test receiver is set to 1MHz for 1-2 GHz.
- f) Level is measured with PK detect and AV detect for above 1GHz

Test Setup



30-1000 MHz



1-2 GHz

Limit

(Class A Digital devices) (Measurement distance: 3m)

Frequency [MHz]	Distance [m]	Field strength [dB μ V/m] (QP) @ 3m FCC 15.109
30 - 88	3	49.4
88 - 216	3	53.9
216 - 960	3	56.8
above 960	3	59.9

Frequency [GHz]	Distance [m]	Field strength [dB μ V/m] (AV) @ 3m FCC 15.109	Field strength [dB μ V/m] (PK) @ 3m FCC 15.109
1 - 2	3	59.9	79.9

Test Results

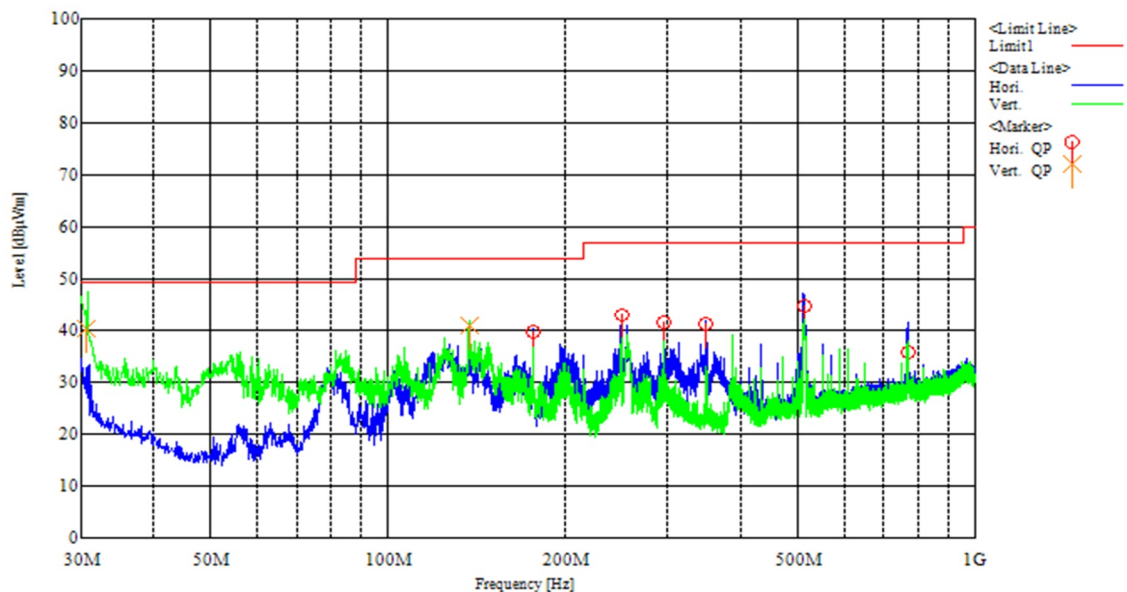
(30-1000 MHz) / GW-402(RS-232C) mode, 24V mode (Worst)

No.	Frequency [MHz]	Reading [dBμV]	Antenna factor [dB/m]	Cable Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant. polarization
1	176.947	53.3	9.2	7.1	30.0	39.6	53.9	14.3	Hori.
2	249.998	53.1	12.4	7.4	29.9	43.0	56.8	13.8	Hori.
3	294.912	50.9	13.0	7.6	29.9	41.6	56.8	15.2	Hori.
4	347.996	49.0	14.3	7.8	29.9	41.2	56.8	15.6	Hori.
5	512.098	48.1	18.0	8.2	29.5	44.8	56.8	12.0	Hori.
6	769.082	35.1	22.1	8.8	30.2	35.8	56.8	21.0	Hori.
7	30.580	45.5	18.8	6.3	30.3	40.3	49.4	9.1	Vert.
8	137.626	52.2	11.7	7.0	30.0	40.9	53.9	13.0	Vert.

Calculation method

Examples: 30.580 MHz: Reading (45.5dBuV) + Antenna Factor (18.8dB/m) + Cable loss (6.3dB) – Gain (30.3 dB)
= Result (40.3 dBuV/m)

Test chart (30-1000 MHz)



Limit 1 = QP

Test Results

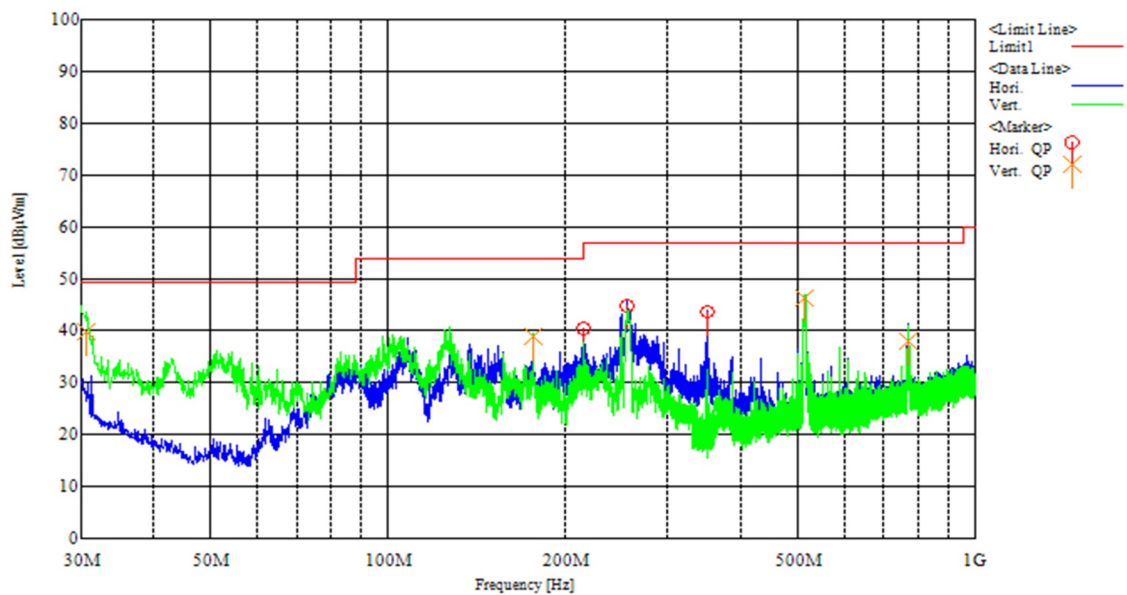
(30-1000 MHz) / GW-404(RS485) mode, 24V mode (Worst)

No.	Frequency [MHz]	Reading [dBμV]	Antenna factor [dB/m]	Cable Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant. polarization
1	216.269	53.9	8.9	7.3	29.9	40.2	56.8	16.6	Hori.
2	255.591	54.1	13.2	7.4	29.9	44.8	56.8	12.0	Hori.
3	350.198	51.3	14.4	7.8	29.9	43.6	56.8	13.2	Hori.
4	30.580	45.0	18.8	6.3	30.3	39.8	49.4	9.6	Vert.
5	176.947	52.6	9.2	7.1	30.0	38.9	53.9	15.0	Vert.
6	513.803	49.6	18.0	8.2	29.5	46.3	56.8	10.5	Vert.
7	770.827	37.2	22.1	8.8	30.2	37.9	56.8	18.9	Vert.

Calculation method

Examples: 30.580 MHz: Reading (45.0dBμV) + Antenna Factor (18.8dB/m) + Cable loss (6.3dB) – Gain (30.3 dB)
= Result (49.4 dBμV/m)

Test chart (30-1000 MHz)



Limit 1 = QP

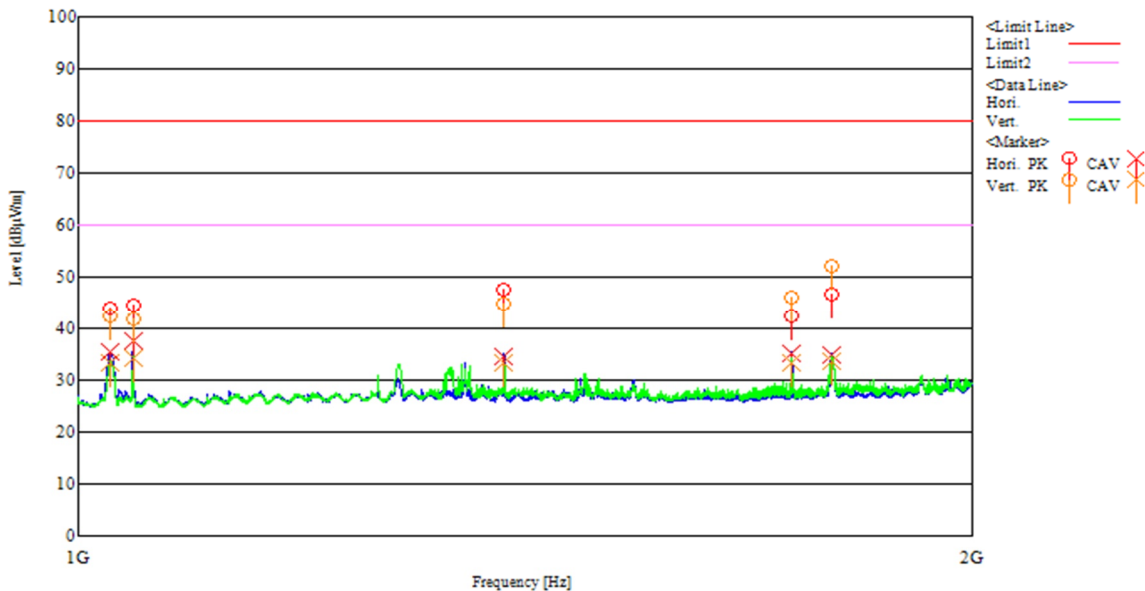
Test Results (1-2 GHz) / GW-402(RS-232C) mode, 24V mode (Worst)

No.	Frequency [MHz]	QP Reading [dBμV]	AV Reading [dBμV]	C.Factor [dB/m]	QP Result [dBμV/m]	AV Result [dBμV/m]	QP Limit [dBμV/m]	AV Limit [dBμV/m]	QP Margin [dB]	AV Margin [dB]	Ant.
1	1025.795	51.7	43.1	-7.8	43.9	35.3	79.9	59.9	36.0	24.6	Hori.
2	1043.987	52.1	45.2	-7.7	44.4	37.5	79.9	59.9	35.5	22.4	Hori.
3	1391.986	54.1	41.1	-6.6	47.5	34.5	79.9	59.9	32.4	25.4	Hori.
4	1739.987	48.5	41.3	-6.2	42.3	35.1	79.9	59.9	37.6	24.8	Hori.
5	1795.041	52.7	40.7	-6.0	46.7	34.7	79.9	59.9	33.2	25.2	Hori.
6	1025.995	50.2	41.1	-7.8	42.4	33.3	79.9	59.9	37.5	26.6	Vert.
7	1043.983	49.4	41.9	-7.7	41.7	34.2	79.9	59.9	38.2	25.7	Vert.
8	1391.986	51.5	39.9	-6.6	44.9	33.3	79.9	59.9	35.0	26.6	Vert.
9	1739.982	52.1	39.6	-6.2	45.9	33.4	79.9	59.9	34.0	26.5	Vert.
10	1795.241	58.2	39.5	-6.0	52.2	33.5	79.9	59.9	27.7	26.4	Vert.

Calculation method

Examples: 1043.987 MHz (AV): Reading (45.2dBuV) + C.Factor (-7.7dB/m) = Result (37.5 dBuV/m)

C.Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Gain (dB)

Test chart (1-2 GHz)

Limit 1 = QP
Limit 2 = AV

Test Results (1-2 GHz) / GW-404(RS485) mode, 24V mode (Worst)

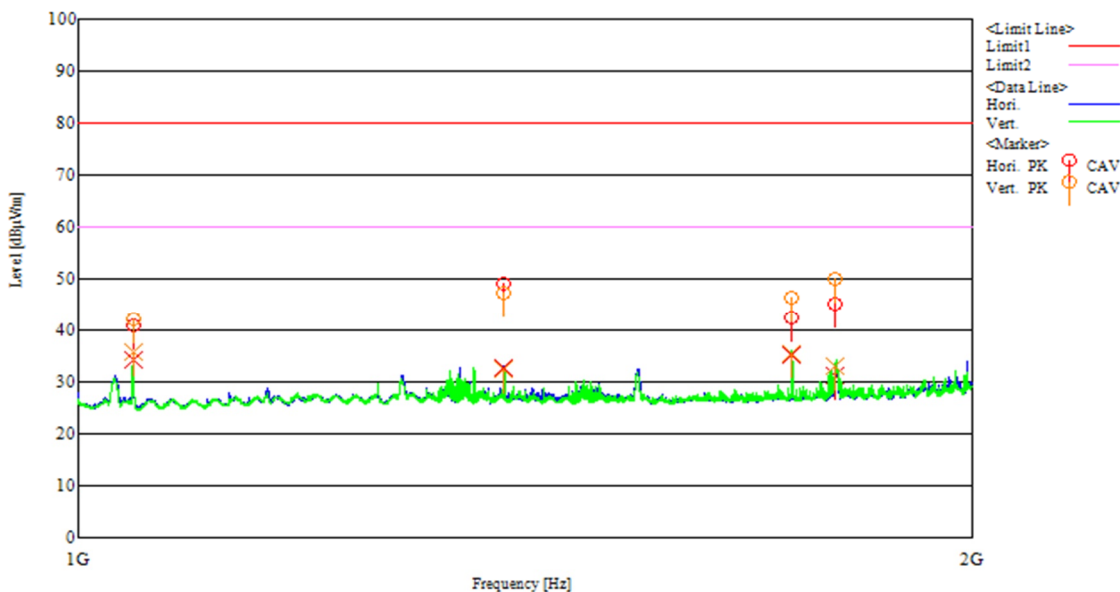
No.	Frequency [MHz]	QP Reading [dBμV]	AV Reading [dBμV]	C.Factor [dB/m]	QP Result [dBμV/m]	AV Result [dBμV/m]	QP Limit [dBμV/m]	AV Limit [dBμV/m]	QP Margin [dB]	AV Margin [dB]	Ant.
1	1043.990	48.7	42.0	-7.7	41.0	34.3	79.9	59.9	38.9	25.6	Hori.
2	1391.984	55.6	39.3	-6.6	49.0	32.7	79.9	59.9	30.9	27.2	Hori.
3	1739.981	48.5	41.4	-6.2	42.3	35.2	79.9	59.9	37.6	24.7	Hori.
4	1798.812	51.0	37.2	-6.0	45.0	31.2	79.9	59.9	34.9	28.7	Hori.
5	1043.989	49.7	43.3	-7.7	42.0	35.6	79.9	59.9	37.9	24.3	Vert.
6	1391.985	53.9	39.1	-6.6	47.3	32.5	79.9	59.9	32.6	27.4	Vert.
7	1739.982	52.5	41.6	-6.2	46.3	35.4	79.9	59.9	33.6	24.5	Vert.
8	1799.946	55.9	39.1	-6.0	49.9	33.1	79.9	59.9	30.0	26.8	Vert.

Calculation method

Examples: 1043.989 MHz (AV): Reading (43.3dBuV) + C.Factor (-7.7dB/m) = Result (35.6 dBuV/m)

C.Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Gain (dB)

Test chart (1-2 GHz)



Limit 1 = QP
Limit 2 = AV

Test Equipment Used

RFT ID No.	Kind of Equipment and Precision	Manufacturer	Model No.	Serial Number	Calibration Date	Calibrated until
AC11 (EM)	Anechoic Chamber	TDK	-	-	2022/8/08	2023/8/31
AC11 (EG)	Anechoic Chamber	TDK	-	-	2022/7/30	2023/7/31
BA10	Bilogical Antenna	TESEQ	CBL6111D	32342	2022/6/21	2023/6/30
DH07	DRG Horn Antenna	A.H. Systems	SAS-571	1939	2021/2/27	2023/2/28
AT18	Attenuator	JFW	50HF-006N	—	2022/1/11	2023/1/31
CL71	RF Cable for RE	RFT	-	-	2022/1/14	2023/1/31
CL35	RF Cable 2 m	Junkosha	MWX221	1502S020	2022/3/23	2023/3/31
CL36	RF Cable 2 m	Junkosha	MWX221	1502S021	2022/3/23	2023/3/31
CL80	RF Cable 8 m	HUBER&SUHNER	SUCOFLEX104PE	MY3792/4PE	2022/3/23	2023/3/31
PR15	Pre. Amplifier	Anritsu	MH648A	6201156141	2022/6/24	2023/6/30
PR16	Pre. Amplifier (1-26G)	Agilent Technologies	8449B	3008A01538	2022/3/18	2023/3/31
TR10	Test Receiver (F/W : 3.66)	Rohde & Schwarz	ESR26	101313	2022/4/1	2023/4/30
SW19	EMI measurement software	SGS Japan	EMI1 (Ver. 6.2)	-	-	-

Final Result

The EUT met the requirements of the standard for this test.