Report on the EMC Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1147

In accordance with FCC Part 15 Subpart B Class B

Prepared for: KYOCERA Corporation
Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku,
Yokohama-shi, Kanagawa, 224-8502 Japan
Phone: +81-45-943-6253 Fax: +81-45-943-6314

TÜV SÜD Japan

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Document Number: JPD-TR-22189-0

SIGNATURE			
Hiroaki Suzuki			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2022.11.21

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Japan Ltd. document control rules.

EXECUTIVE SUMMARY – Result: Complied

A sample of this product was tested and the result above was confirmed in accordance with FCC Part 15 Subpart B (excluding the deviations mentioned in section 1.4 of this document).

ilac-MRA A2LA ACCREDITED Certificate #3686.03

TÜV SÜD Japan Ltd.
Yonezawa Testing Center
5-4149-7 Hachimanpara,
Yonezawa-shi, Yamagata,
992-1128 Japan

Phone: +81 (0) 238 28 2881
www.tuvsud.com/ja-jp

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Additional signatures required by FCC 47 CFR Part 2, § 2.938 (b) (10)

Signatures of the individuals responsible for testing the product

ENGINEERING STATEMENT
The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC Part 15 Subpart B. The sample tested was found Complied compliant with the requirements defined in the applied rules.

NAME	RESPONSIBLE FOR	SIGNATURE
Tsuyoshi Okumura	Testing	
Satoshi Hosoya	Testing	
Akihiro Goto	Testing	

Japan

Contents

Japan

1 Summary of Test

1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-22189-0	First Issue	Refer to the cover page

1.2 Standards

FCC Part 15 Subpart B

1.3 Measurement standards

ANSI C63.4 2014

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Regarding judgment of conformance to Emission test, a value of measurement uncertainty was not taken in account.

Test Name	Classification of EUT	Test	Worst Point (Margin)	Result	Remarks
Conducted emission at mains port	Class B	Applied	MP4 + USB read with PC L2 0.150 MHz QP 10.4 dB	Pass	-
Radiated emission (below 1 GHz)	Class B	Applied	MP4 + USB read with PC H 166.029 MHz QP 8.1 dB	Pass	-
Radiated emission (above 1 GHz)	Class B	Applied	MP4 + USB read with PC H 2999.885 MHz AV 18.7 dB	Pass	-

1.6 Test information

The following EMC test conditions were applied based on the conditions specified by the applicant.
- Tested supply voltage and supply frequency
- Operation mode

1.7 Test set up

Table-top

1.8 Test period

21-October-2022 – 24-October-2022

Japan

2 Equipment Under Test

All information in this chapter was provided by the applicant.

2.1 EUT information

Applicant	KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku, Yokohama-shi, Kanagawa, 224-8502 Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314
Equipment Under Test (EUT)	Mobile Phone
Model number	EB1147
Serial number	358067760004074
Trade name	KYOCERA
Authorization	JOYEB1147
Number of sample(s)	1
EUT condition	Pre-production
Maximum frequency	2200 MHz
Power rating	Battery: DC 3.87 V
Size	(W) 72 × (D) 156 × (H) 8.9 mm

2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

Modification State	Description of Modification	Modification fitted by	Date of Modification
EB1147, S/N: 358067760004074			
0	As supplied by the applicant	Not Applicable	Not Applicable

2.3 Variation of family model(s)

2.3.1 List of family model(s)

Not applicable

2.3.2 Reason for selection of EUT

Not applicable

2.4 Operation mode

1. In Camera with ADP mode
i) Power ON
ii) Record

2. Out Camera with ADP mode
i) Power ON
ii) Record

3. MP4 with Earphone mode
i) Power ON
ii) Execution of Color Bar moving picture data

4. MP4 + USB Read with PC mode
i) Power ON
ii) EUT connects to PC via USB cable
iii) Read / write of MP4 moving picture data
iv) Execution of Color Bar moving picture data

Japan

3 Configuration of Equipment

Numbers assigned to equipment or cables in “3.1 Equipment(s) used” and “3.2 Cable(s) used” correspond to numbers in "3.3 System configuration".
Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

3.1 Equipment used

No.	Equipment	Company	Model No.	Serial No.	FCC ID /DoC	Remarks
EUT1	Mobile Phone	KYOCERA	EB1147	358067760004074	JOYEB1147	EUT
AE1	AC adapter	KDDI	0602PQA	NKA	N/A	*1
AE2	Earphone	N/A	N/A	N/A	N/A	-
AE3	Personal Computer	Lenovo	4334	CB07410173	DoC	*2
AE4	AC adapter	Lenovo	CPA-A065	11S36001943ZZ2001 1l16S	N/A	*2

*1: AC adapter is connected to keep operating.
*2: The property of TÜV SÜD Japan was used.

3.2 Cable(s) used

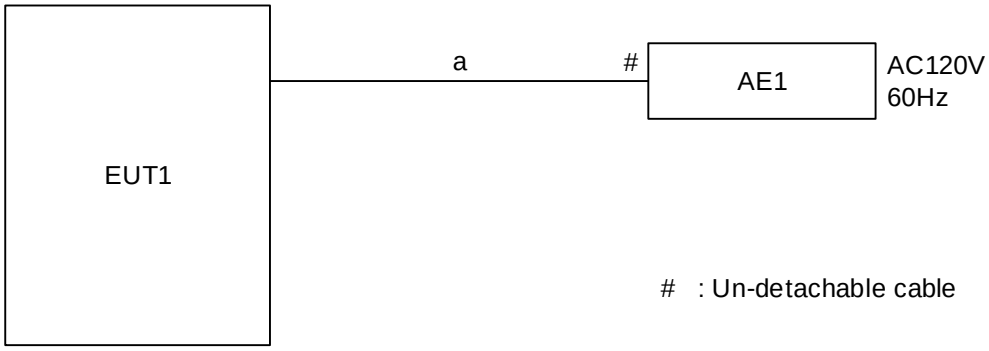
No.	Cable	Length (m)	Shield	EUT accessory Ferrite core	Remarks
a	DC cable	1.5	Yes	-	-
b	USB to AUDIO conversion cable	0.1	Yes	-	-
c	Earphone cable	0.75	No	-	-
d	USB type C cable	1.0	Yes	-	-
e	DC cable for PC AC adapter	1.8	No	-	*1
f	AC power cord for PC AC adapter	1.0	No	-	*1

*1: The property of TÜV SÜD Japan was used.

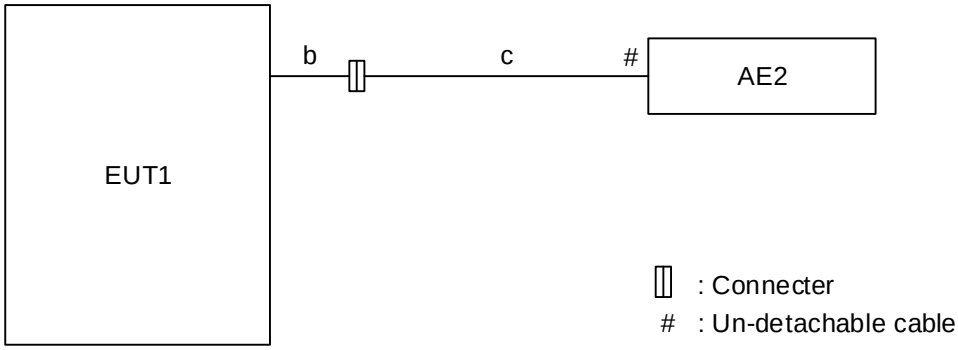
Japan

3.3 System configuration

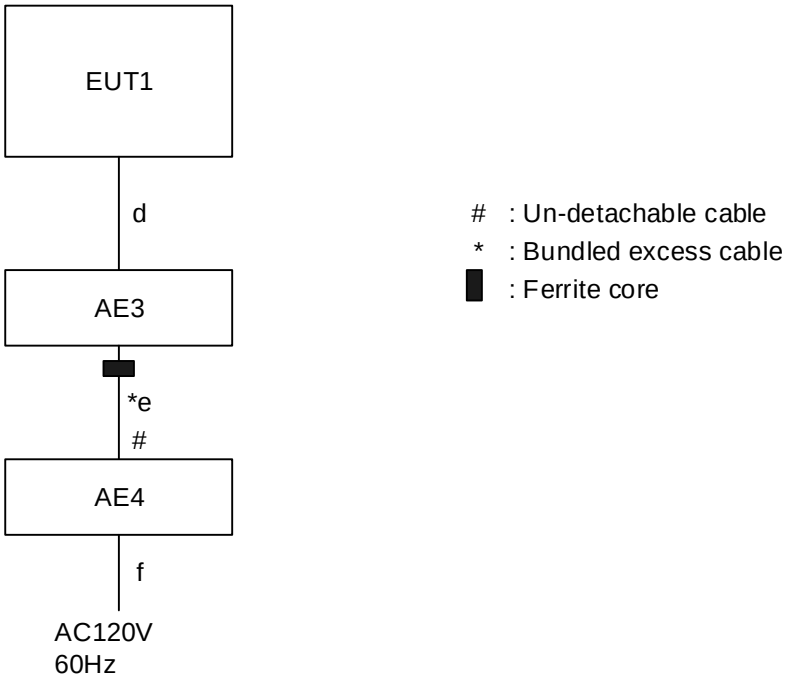
1. In Camera with ADP mode
2. Out Camera with ADP mode



3. MP4 with Earphone mode



4. MP4 + USB Read with PC mode



Japan

4 Test Result

4.1 Conducted emission at mains port

4.1.1 Measurement condition

Frequency range	0.15 MHz-30 MHz
Test place	10 m Semi-Anechoic Chamber No. 2
EUT was placed on	Styrene foam table (W) 2.0 × (D) 1.0 × (H) 0.8 m
Metal reference plane	Vertical
Test receiver setting	Detector: Quasi-peak, Average Bandwidth: 9 kHz
Line Impedance Stabilization Network (LISN)	Specification: 50 Ω/50 μH Distance from EUT: 0.8 m

EUT is placed on a non-conducting table for table-top equipment or on insulation material for a floor-standing equipment. In addition, a table-top equipment is located 0.4 m to a metal reference plane.

Line Impedance Stabilization Network (LISN) is placed 0.8 m away from the EUT. The power code of the EUT is connected to LISN and its excess part is bundled in the center. The length of bundling is 0.3-0.4 m.

A power code of a peripheral is connected to LISN and terminated into 50 Ω.

Excess cables between equipment are bundled in the center. The length of bundling is 0.3-0.4 m.

Where LISN cannot be applied, the test is performed using a voltage probe.

After overall frequency range is investigated with spectrum analyzer using peak detector, measurements are performed with test receiver in setting to the defined values.

4.1.2 Calculation method

Emission Level = Reading + Factor*
Margin = Limit – Emission Level
*Note: Factor = AMN factor + Cable system loss + ATT. loss

Example)
Limit @ 6.770 MHz: 60.0 dBμV (Quasi-peak)
50.0 dBμV (Average)

Quasi-peak Reading = 41.2 dBμV Factor = 10.3 dB
Emission level = 41.2 + 10.3 = 51.5 dBμV
Margin = 60.0 - 51.5 = 8.5 dB

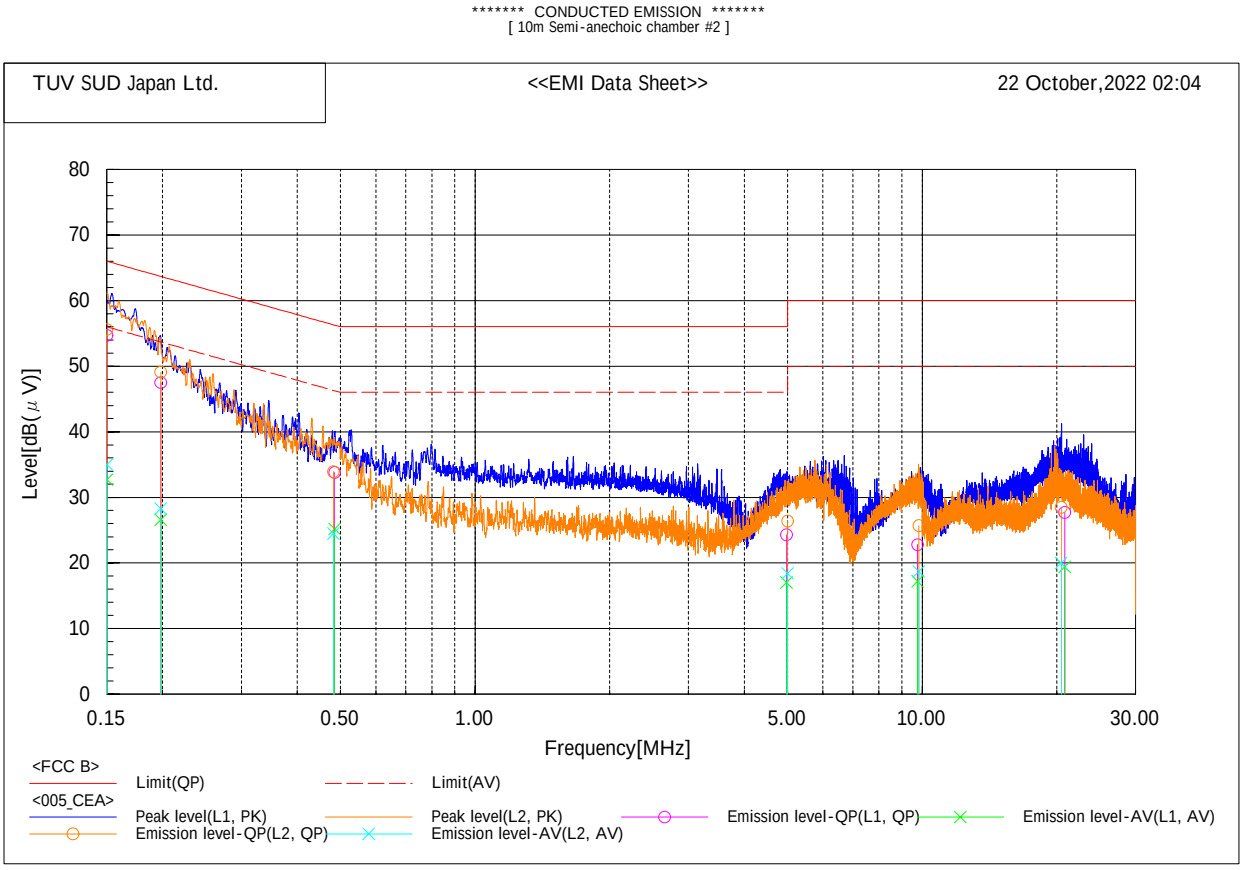
Average Reading = 35.0 dBμV Factor = 10.3 dB
Emission level = 35.0 + 10.3 = 45.3 dBμV
Margin = 50.0 - 45.3 = 4.7 dB

Japan

4.1.3 Test data and Configuration photographs

Operation mode	MP4 + USB Read with PC mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 22 October,2022 02:04
Operator : Tsuyoshi Okumura
Temp, Hum, Atm : 19.2 [°C], 46.8 [%], 989 [hPa]
Supply power : AC 120 V 60 Hz



Final Result

Line	Frequency	Reading		Factor	Level		Limit		Margin	
	MHz	dB(uV)		dB	dB(uV)		dB(uV)		dB	
		QP	CAV		QP	CAV	QP	AV	QP	AV
L1	0.150	44.2	22.2	10.5	54.7	32.7	66.0	56.0	11.3	23.3
L1	0.198	37.0	16.1	10.5	47.5	26.6	63.7	53.7	16.2	27.1
L1	0.485	23.4	14.8	10.4	33.8	25.2	56.3	46.3	22.5	21.1
L1	4.972	13.6	6.3	10.7	24.3	17.0	56.0	46.0	31.7	29.0
L1	9.763	11.9	6.3	10.9	22.8	17.2	60.0	50.0	37.2	32.8
L1	20.824	16.5	8.2	11.2	27.7	19.4	60.0	50.0	32.3	30.6
L2	0.150	45.1	24.5	10.5	55.6	35.0	66.0	56.0	10.4	21.0
L2	0.198	38.7	17.9	10.4	49.1	28.3	63.7	53.7	14.6	25.4
L2	0.482	23.5	14.1	10.4	33.9	24.5	56.3	46.3	22.4	21.8
L2	4.999	15.7	7.7	10.7	26.4	18.4	56.0	46.0	29.6	27.6
L2	9.830	14.8	7.8	10.9	25.7	18.7	60.0	50.0	34.3	31.3
L2	20.450	17.3	8.8	11.2	28.5	20.0	60.0	50.0	31.5	30.0

Japan

4.2 Radiated emission (below 1 GHz)

4.2.1 Measurement condition

Frequency range	30 MHz-1000 MHz
Test place	10 m Semi-Anechoic Chamber No. 2
EUT was placed on	Styrene foam table (W) 2.0 × (D) 1.0 × (H) 0.8 m
Axis	0°-360°
Antenna	Distance from EUT: 3 m Height: 1-4 m Polarity: Horizontal/Vertical
Test receiver setting	Detector: Quasi-peak Bandwidth: 120 kHz

EUT is placed on a non-conducting table for table-top equipment or on insulation material for a floor-standing equipment. The non-conducting table or the insulation material is placed on a rotating turn table.

Excess cables between equipment are bundled in the center. The length of bundling is 0.3-0.4 m.

An antenna is adjusted between 1-4 m in height and varied its polarization (horizontal and vertical), and the EUT azimuth is varied by the rotating turntable 0 to 360 degrees.

After overall frequency range is investigated with spectrum analyzer using peak detector, measurements are performed with test receiver in setting to the defined values.

4.2.2 Calculation method

Emission level = Reading + Factor*
Margin = Limit - Emission level
*Note: Factor = Antenna factor + Cable system loss + ATT. loss - Amplifier Gain

Example)
Limit @ 350.0 MHz: 37.0 dBµV/m (Quasi-peak)

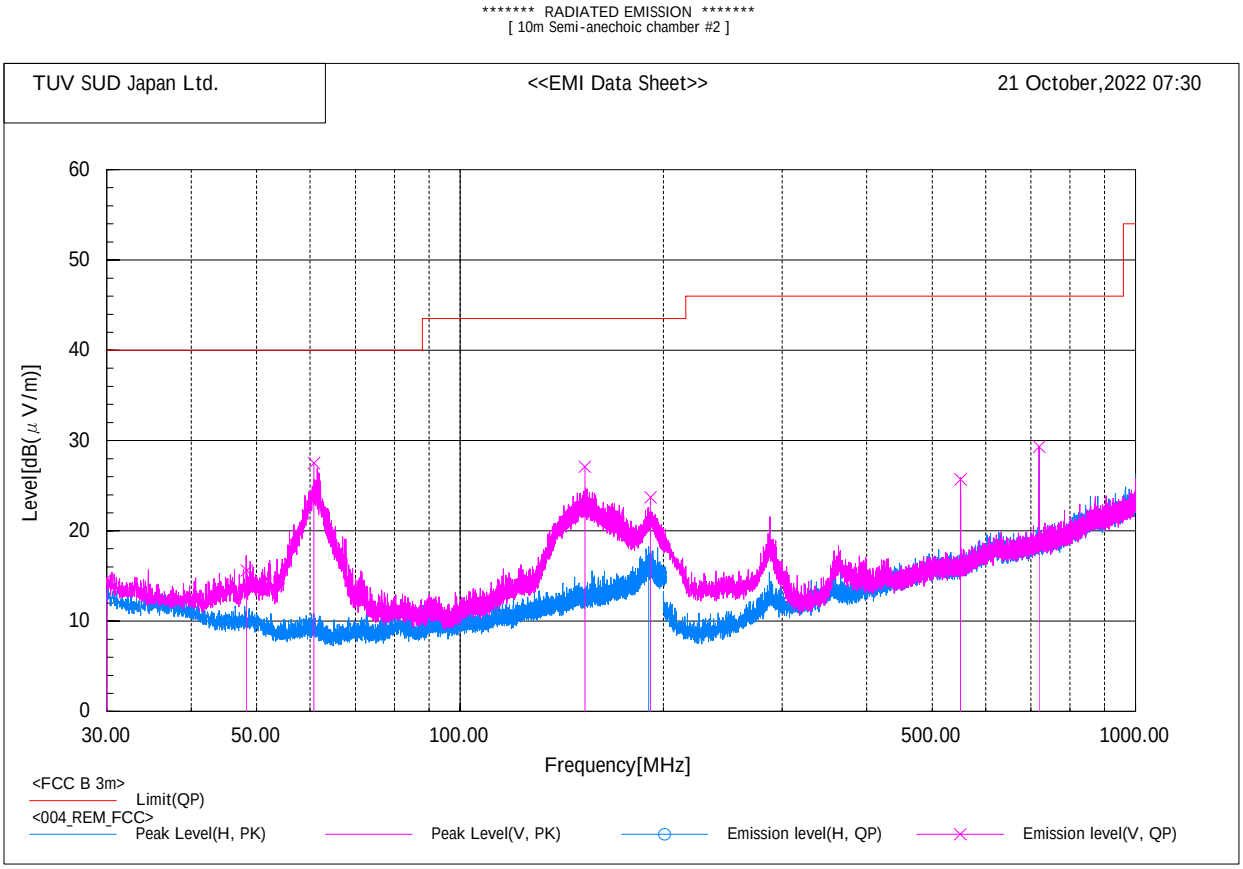
Quasi-peak Reading = 41.1 dBµV Factor = -11.8 dB/m
Emission level = 41.1 - 11.8 = 29.3 dBµV/m
Margin = 37.0 - 29.3 = 7.7 dB

Japan

4.2.3 Test data and Configuration photographs

Operation mode	In Camera with ADP mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 21 October,2022 07:30
Operator : Satoshi Hosoya
Temp, Hum, Atm : 22.4 [°C], 36.6 [%], 992 [hPa]
Supply power : DC 5 V



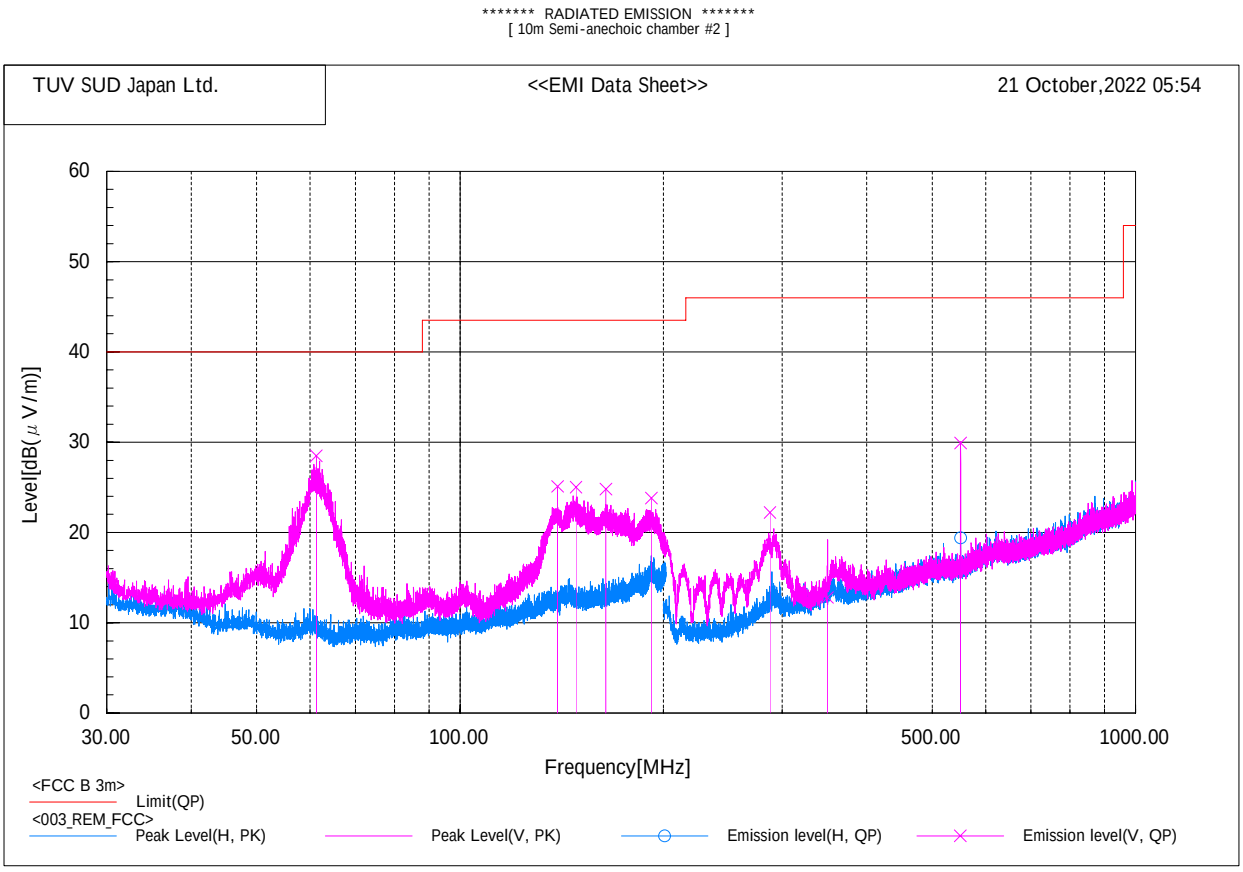
Final Result

Frequency	Pol.	Reading	Factor	Level	Limit	Margin	Height	Angle
MHz		dB(μV)	dB(1/m)	dB(μV/m)	dB(μV/m)	dB	cm	deg
		QP		QP	QP	QP		
30.002	V	27.8	-13.1	14.7	40.0	25.3	100.0	151.0
48.347	V	31.7	-16.1	15.6	40.0	24.4	100.0	173.0
60.787	V	44.6	-17.1	27.5	40.0	12.5	100.0	138.0
153.092	V	40.3	-13.2	27.1	43.5	16.4	100.0	198.0
190.162	H	27.5	-11.6	15.9	43.5	27.6	349.0	222.0
191.499	V	35.2	-11.5	23.7	43.5	19.8	249.0	120.0
551.012	V	34.9	-9.2	25.7	46.0	20.3	100.0	61.0
720.000	V	35.7	-6.4	29.3	46.0	16.7	135.0	125.0

Japan

Operation mode	Out Camera with ADP mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 21 October,2022 05:54
Operator : Satoshi Hosoya
Temp, Hum, Atm : 22.4 [°C], 36.6 [%], 992 [hPa]
Supply power : DC 5 V

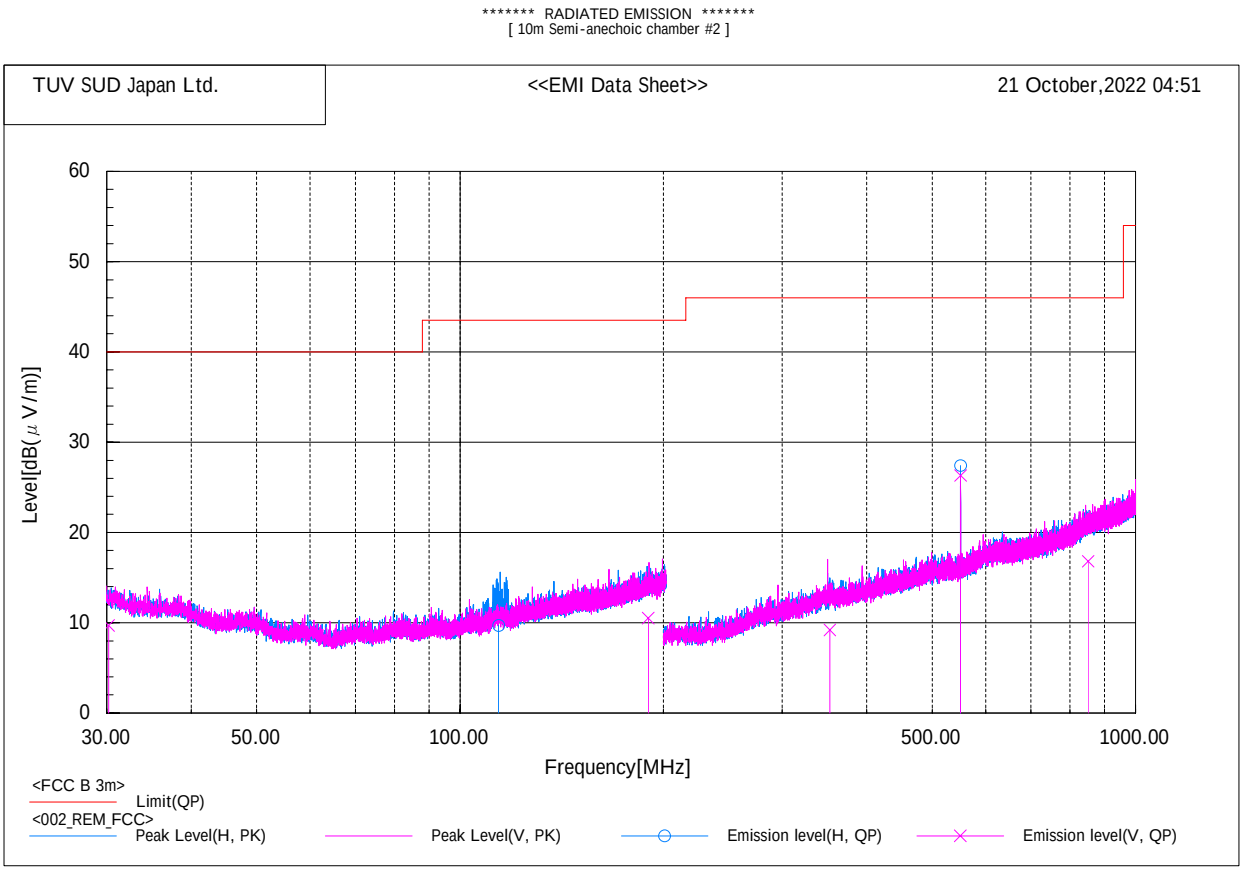


Final Result

Frequency	Pol.	Reading	Factor	Level	Limit	Margin	Height	Angle
MHz		dB(μV)	dB(1/m)	dB(μV/m)	dB(μV/m)	dB	cm	deg
		QP		QP	QP	QP		
61.284	V	45.7	-17.2	28.5	40.0	11.5	100.0	143.0
139.417	V	38.9	-13.8	25.1	43.5	18.4	100.0	120.0
148.526	V	38.4	-13.4	25.0	43.5	18.5	100.0	79.0
164.440	V	37.7	-12.9	24.8	43.5	18.7	100.0	143.0
192.045	V	35.3	-11.5	23.8	43.5	19.7	280.0	122.0
287.656	V	36.7	-14.5	22.2	46.0	23.8	174.0	162.0
350.000	V	25.4	-12.6	12.8	46.0	33.2	127.0	110.0
550.999	V	39.1	-9.2	29.9	46.0	16.1	100.0	148.0
550.999	H	28.6	-9.2	19.4	46.0	26.6	193.0	234.0

Operation mode	MP4 with Earphone mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 21 October,2022 04:51
Operator : Satoshi Hosoya
Temp, Hum, Atm : 22.4 [°C], 36.6 [%], 992 [hPa]
Supply power : DC 3.87 V (Battery)



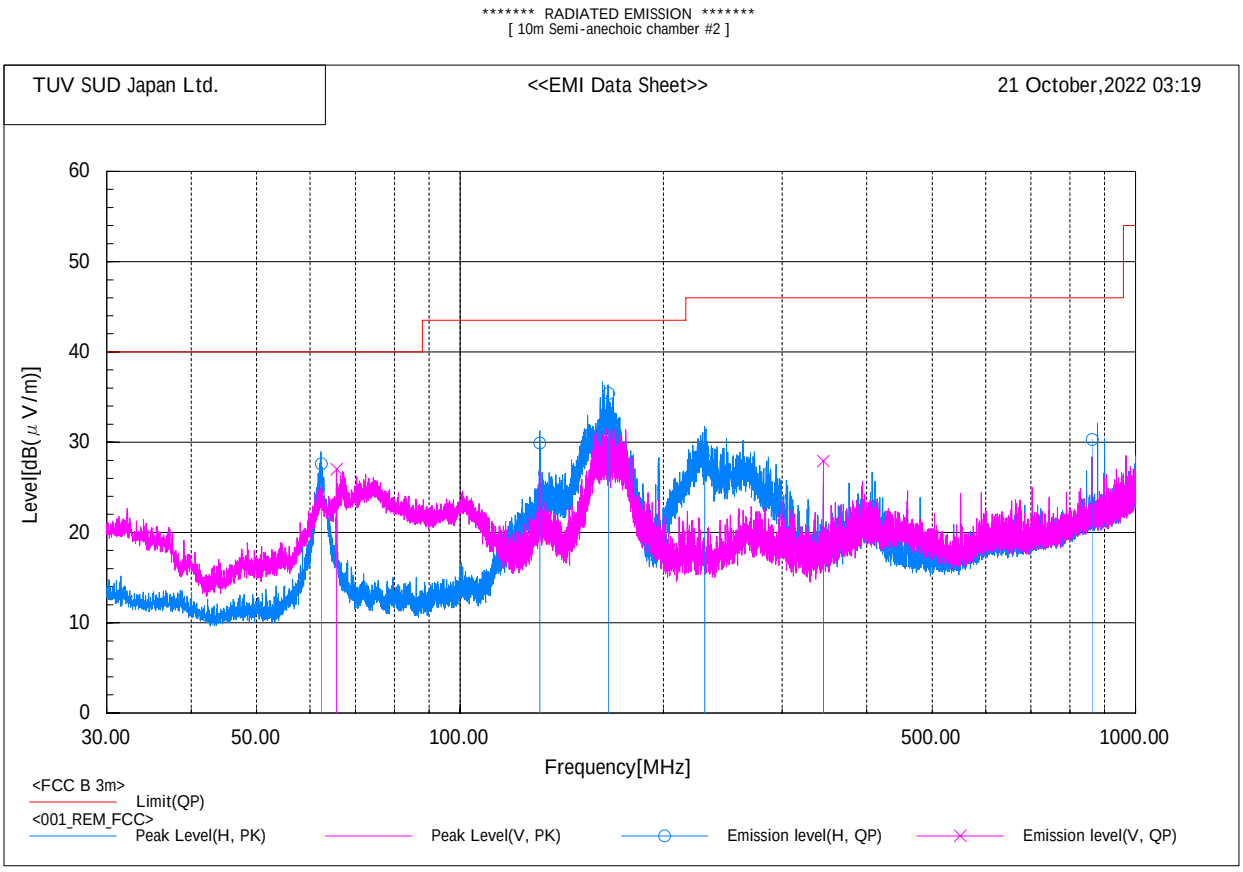
Final Result

Frequency	Pol.	Reading	Factor	Level	Limit	Margin	Height	Angle
MHz		dB(μV)	dB(1/m)	dB(μV/m)	dB(μV/m)	dB	cm	deg
		QP		QP	QP	QP		
30.203	V	22.8	-13.1	9.7	40.0	30.3	100.0	263.0
114.082	H	25.0	-15.3	9.7	43.5	33.8	316.0	95.0
189.968	V	22.1	-11.6	10.5	43.5	33.0	100.0	212.0
352.925	V	21.8	-12.6	9.2	46.0	36.8	100.0	288.0
551.001	V	35.5	-9.2	26.3	46.0	19.7	116.0	63.0
551.001	H	36.6	-9.2	27.4	46.0	18.6	177.0	102.0
851.110	V	20.6	-3.8	16.8	46.0	29.2	100.0	21.0

Japan

Operation mode	MP4 + USB Read with PC mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 21 October,2022 03:19
Operator : Satoshi Hosoya
Temp, Hum, Atm : 22.4 [°C], 36.6 [%], 992 [hPa]
Supply power : AC 120 V 60 Hz



Final Result

Frequency	Pol.	Reading	Factor	Level	Limit	Margin	Height	Angle
MHz		dB(μV)	dB(1/m)	dB(μV/m)	dB(μV/m)	dB	cm	deg
		QP		QP	QP	QP		
62.311	H	44.8	-17.2	27.6	40.0	12.4	291.0	162.0
65.679	V	44.2	-17.2	27.0	40.0	13.0	100.0	140.0
131.248	H	44.1	-14.2	29.9	43.5	13.6	271.0	132.0
166.029	H	48.2	-12.8	35.4	43.5	8.1	210.0	317.0
230.300	H	44.9	-16.7	28.2	46.0	17.8	100.0	194.0
344.986	V	40.6	-12.7	27.9	46.0	18.1	207.0	201.0
862.469	H	34.0	-3.7	30.3	46.0	15.7	100.0	18.0

Japan

4.3 Radiated emission (above 1 GHz)

4.3.1 Measurement condition

Frequency range	1000 MHz-11000 MHz
Test place	10 m Semi-Anechoic Chamber No. 2
EUT was placed on	Styrene foam table (W) 2.0 × (D) 1.0 × (H) 0.8 m
Axis	0°-360°
Antenna	Distance: 3.85m, 4.03 m Height: 1-4 m Polarity: Horizontal/Vertical
Test receiver setting	Detector: Peak, Average Bandwidth: 1 MHz

EUT is placed on a styrene form table for table-top equipment or on insulation material for a floor-standing equipment. The styrene form table or the insulation material is placed on a rotating turn table.

Excess cables between equipment are bundled in the center. The length of bundling is 0.3-0.4 m.

Absorbers are placed between the EUT and an antenna.

The antenna is adjusted between 1-4 m in height and varied its polarization (horizontal and vertical), and the EUT azimuth is varied by the rotating turntable 0 to 360 degrees. Where height of the antenna is changed, its angle is also adjusted to the position of the EUT.

After overall frequency range is investigated with spectrum analyzer using peak detector, measurements are performed with test receiver in setting to the defined values.

The antenna is positioned from the test volume that was predetermined by the site VSWR measurement. Since this predetermined test volume is different from maximum circumference where the EUT and the peripheral devices are actually placed, the measurement distance conversion factor is added to the measurement data.

Antenna 3 dB beamwidth

Antenna: 3117

Frequency (GHz)	θ3 dB (°)	3 dB beamwidth w (m)
1.0	82	5.22
2.0	56	3.19
3.0	61	3.53
4.0	50	2.80
5.0	53	2.99
6.0	50	2.80

Measurement distance: d = 3.0 m

$W = 2 \times d \times \tan(0.5 \times \theta 3\ dB)$

Japan

4.3.2 Calculation method

Emission level = Reading + CF*

Margin = Limit - Emission level

*Note: CF (correction factor) = TF (Transducer Factor; Antenna factor) + PF (Path Factor; Cable system loss + ATT. loss - Amplifier Gain) + DF (Distance correction Factor)

Example)

Limit @ 1100.0 MHz: 70.0 dBµV/m (Peak)
50.0 dBµV/m (Average)

Measurement distance: 3.25 m
Distance conversion Factor: 20 log (3.25m/3.0m) = 0.7 dB

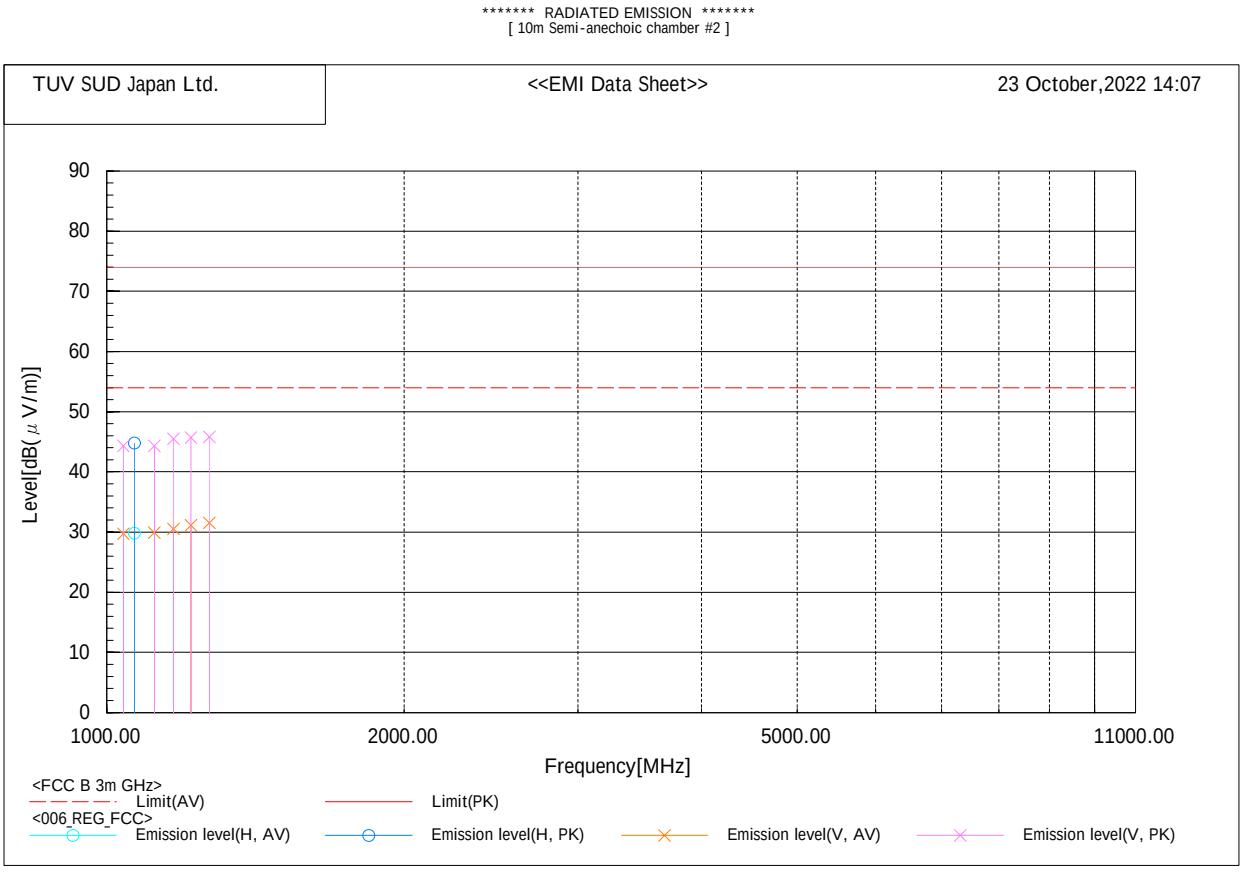
Peak
Reading = 50.2 dBµV CF = 2.4 dB
Emission level = 50.2 + 2.4 = 52.6 dBµV/m
Margin = 70.0 - 52.6 = 17.4 dB

Average
Reading = 32.0 dBµV CF = 2.4 dB
Emission level = 32.0 + 2.4 = 34.4 dBµV/m
Margin = 50.0 - 34.4 = 15.6 dB

4.3.3 Test data and Configuration photographs

Operation mode	In Camera with ADP mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 23 October,2022 14:07
Operator : Akihiro Goto
Temp, Hum, Atm : 20.1 [°C], 52.2 [%], 979 [hPa]
Supply power : DC 5 V
Antenna distance : 4.03 m
Antenna height : 1.00 m - 4.00 m

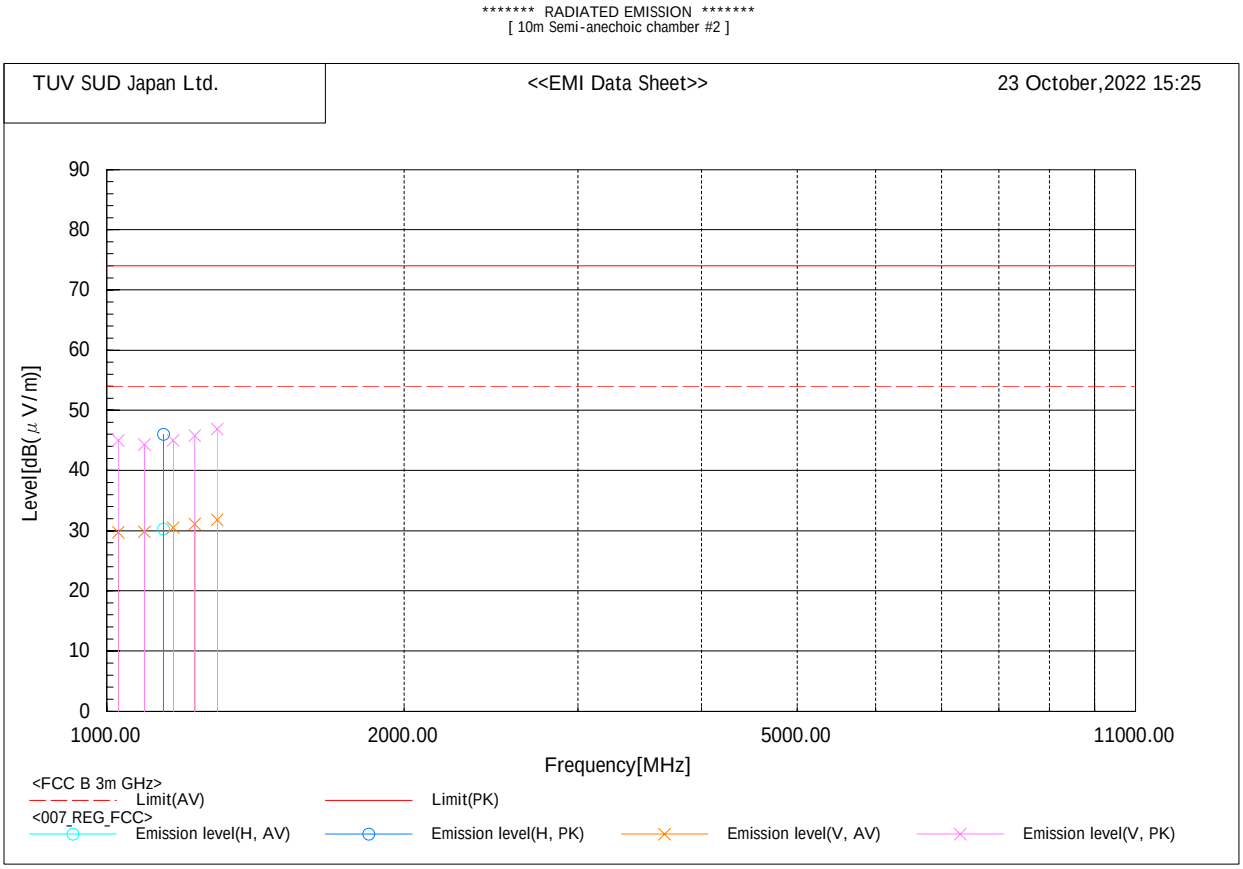


Final Result

Frequency	Pol.	Reading		Factor				Level		Limit		Margin		Height	Angle	Tilt
MHz		dB(μV)		dB(1/m)				dB(μV/m)		dB(μV/m)		dB		cm	deg	deg
		AV	PK	CF	TF	PF	DF	AV	PK	AV	PK	AV	PK			
1039.331	V	38.3	52.9	-8.6	27.8	-39.0	2.6	29.7	44.3	54.0	74.0	24.3	29.7	100.0	251.0	0
1066.228	H	38.4	53.4	-8.6	27.7	-38.9	2.6	29.8	44.8	54.0	74.0	24.2	29.2	100.0	38.0	0
1117.422	V	38.2	52.6	-8.3	27.8	-38.7	2.6	29.9	44.3	54.0	74.0	24.1	29.7	100.0	115.0	0
1168.215	V	38.1	53.1	-7.6	28.5	-38.7	2.6	30.5	45.5	54.0	74.0	23.5	28.5	100.0	255.0	0
1217.095	V	38.0	52.6	-6.9	29.0	-38.5	2.6	31.1	45.7	54.0	74.0	22.9	28.3	100.0	208.0	0
1270.003	V	37.9	52.2	-6.4	29.4	-38.4	2.6	31.5	45.8	54.0	74.0	22.5	28.2	100.0	311.0	0

Operation mode	Out Camera with ADP mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 23 October,2022 15:25
Operator : Akihiro Goto
Temp, Hum, Atm : 20.1 [°C], 52.2 [%], 979 [hPa]
Supply power : DC 5 V
Antenna distance : 4.03 m
Antenna height : 1.00 m - 4.00 m



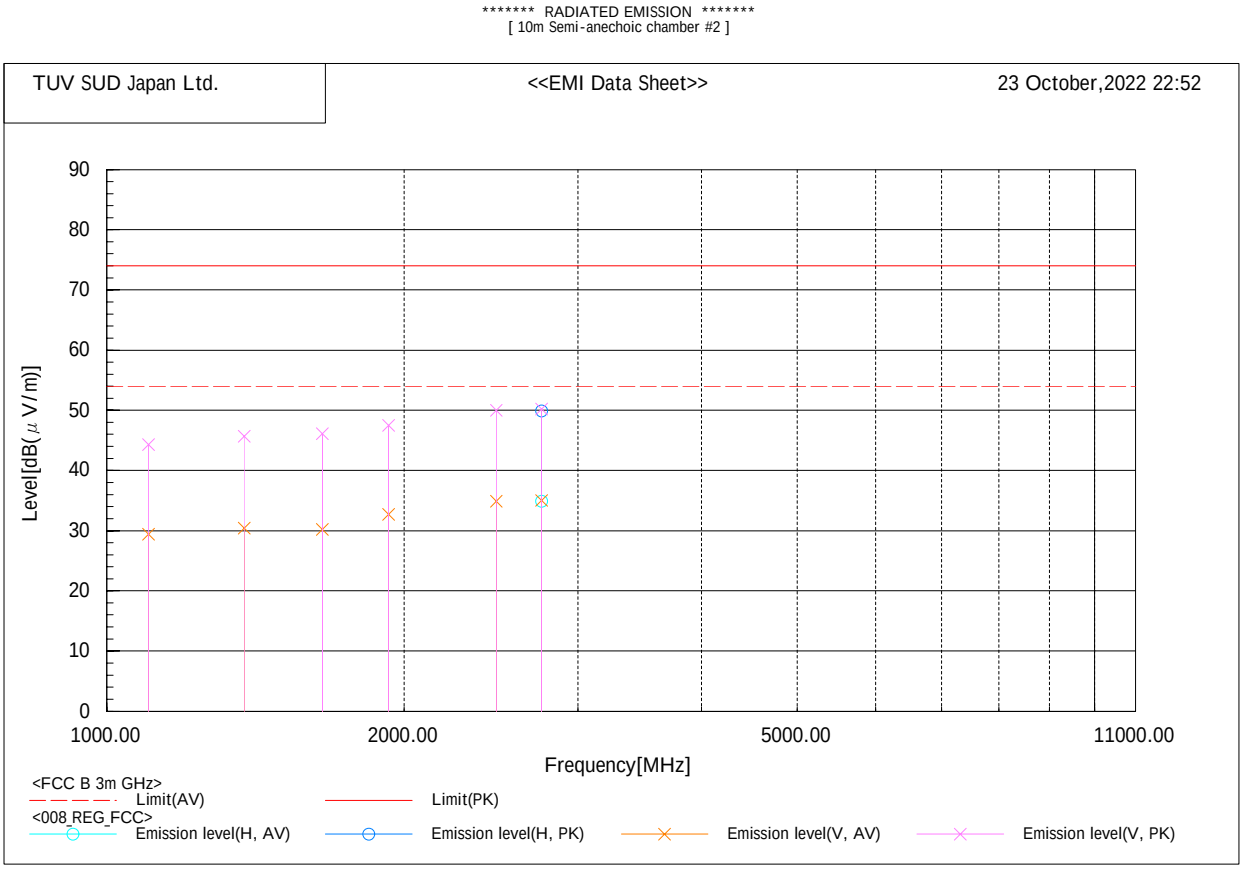
Final Result

Frequency	Pol.	Reading		Factor				Level		Limit		Margin		Height	Angle	Tilt
MHz		dB(μV)		dB(1/m)				dB(μV/m)		dB(μV/m)		dB		cm	deg	deg
		AV	PK	CF	TF	PF	DF	AV	PK	AV	PK	AV	PK			
1027.002	V	38.3	53.6	-8.6	27.8	-39.0	2.6	29.7	45.0	54.0	74.0	24.3	29.0	100.0	250.0	0
1091.757	V	38.4	52.9	-8.6	27.6	-38.8	2.6	29.8	44.3	54.0	74.0	24.2	29.7	100.0	279.0	0
1141.427	H	38.3	54.0	-8.0	28.1	-38.7	2.6	30.3	46.0	54.0	74.0	23.7	28.0	100.0	30.0	0
1167.496	V	38.1	52.6	-7.6	28.5	-38.7	2.6	30.5	45.0	54.0	74.0	23.5	29.0	100.0	145.0	0
1227.632	V	37.9	52.6	-6.8	29.1	-38.5	2.6	31.1	45.8	54.0	74.0	22.9	28.2	100.0	229.0	0
1293.370	V	38.0	53.1	-6.2	29.5	-38.3	2.6	31.8	46.9	54.0	74.0	22.2	27.1	100.0	192.0	0

Japan

Operation mode	MP4 with Earphone mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 23 October,2022 22:52
Operator : Satoshi Hosoya
Temp, Hum, Atm : 19.8 [°C], 55.0 [%], 979 [hPa]
Supply power : DC 3.87 V (Battery)
Antenna distance : 4.03 m
Antenna height : 1.00 m - 4.00 m



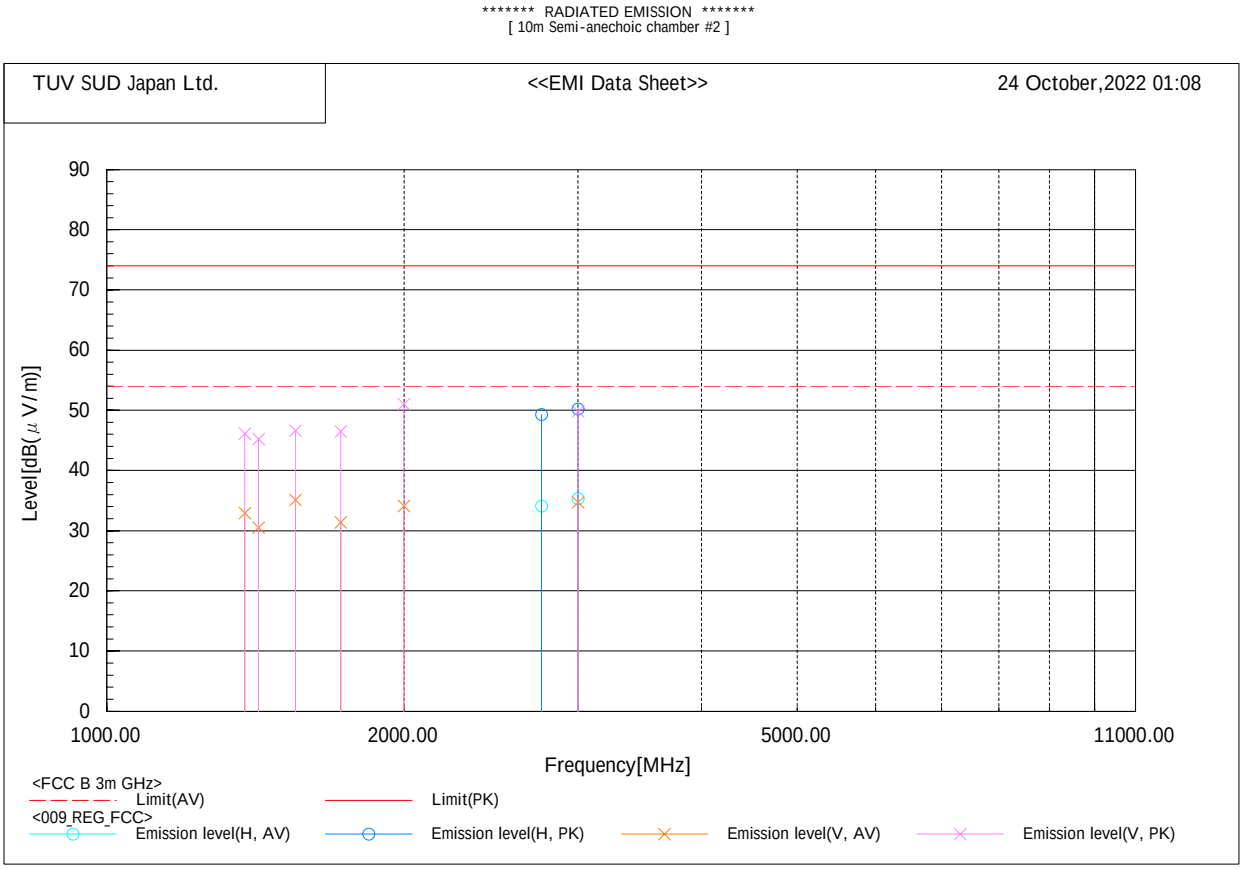
Final Result

Frequency	Pol.	Reading		Factor				Level		Limit		Margin		Height	Angle	Tilt
MHz		dB(μV)		dB(1/m)				dB(μV/m)		dB(μV/m)		dB		cm	deg	deg
		AV	PK	CF	TF	PF	DF	AV	PK	AV	PK	AV	PK			
1102.002	V	38.0	52.9	-8.6	27.6	-38.8	2.6	29.4	44.3	54.0	74.0	24.6	29.7	328.0	356.0	35.6
1377.502	V	37.2	52.5	-6.8	28.7	-38.1	2.6	30.4	45.7	54.0	74.0	23.6	28.3	330.0	349.0	35.7
1653.003	V	36.7	52.6	-6.5	28.5	-37.6	2.6	30.2	46.1	54.0	74.0	23.8	27.9	267.0	354.0	28.3
1928.504	V	36.4	51.2	-3.7	30.6	-36.9	2.6	32.7	47.5	54.0	74.0	21.3	26.5	335.0	345.0	36.2
2479.506	V	35.7	50.8	-0.8	32.5	-35.9	2.6	34.9	50.0	54.0	74.0	19.1	24.0	192.0	95.0	16.7
2755.004	V	35.5	50.7	-0.5	32.3	-35.4	2.6	35.0	50.2	54.0	74.0	19.0	23.8	342.0	135.0	36.2
2755.004	H	35.4	50.4	-0.5	32.3	-35.4	2.6	34.9	49.9	54.0	74.0	19.1	24.1	373.0	189.0	36.2

Japan

Operation mode	MP4 + USB Read with PC mode
EUT	EB1147, S/N: 358067760004074 - Modification State 0

Standard : FCC Part 15 Class B
Date of test : 24 October,2022 01:08
Operator : Satoshi Hosoya
Temp, Hum, Atm : 19.8 [°C], 55.0 [%], 979 [hPa]
Supply power : AC 120 V, 60 Hz, 1 phase
Antenna distance : 3.85 m
Antenna height : 1.00 m - 4.00 m



Final Result

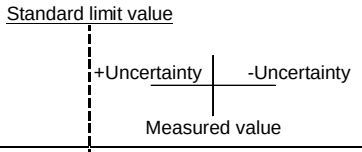
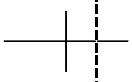
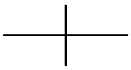
Frequency	Pol.	Reading		Factor				Level		Limit		Margin		Height	Angle	Tilt
MHz		dB(μV)		dB(1/m)				dB(μV/m)		dB(μV/m)		dB		cm	deg	deg
		AV	PK	CF	TF	PF	DF	AV	PK	AV	PK	AV	PK			
1379.948	V	40.2	53.4	-7.3	28.7	-38.2	2.2	32.9	46.1	54.0	74.0	21.1	27.9	334.0	312.0	36.1
1424.946	V	38.1	52.8	-7.6	28.3	-38.1	2.2	30.5	45.2	54.0	74.0	23.5	28.8	317.0	349.0	34.4
1552.441	V	42.8	54.3	-7.7	27.9	-37.8	2.2	35.1	46.6	54.0	74.0	18.9	27.4	273.0	333.0	28.9
1724.934	V	37.4	52.5	-6.0	29.2	-37.4	2.2	31.4	46.5	54.0	74.0	22.6	27.5	123.0	175.0	4.9
1999.504	V	37.5	54.4	-3.4	31.2	-36.8	2.2	34.1	51.0	54.0	74.0	19.9	23.0	377.0	278.0	36.7
2755.000	H	35.0	50.2	-0.9	32.3	-35.4	2.2	34.1	49.3	54.0	74.0	19.9	24.7	328.0	328.0	35.6
2999.885	V	34.9	50.0	-0.2	32.6	-35.0	2.2	34.7	49.8	54.0	74.0	19.3	24.2	147.0	198.0	8.9
2999.885	H	35.5	50.4	-0.2	32.6	-35.0	2.2	35.3	50.2	54.0	74.0	18.7	23.8	356.0	240.0	36.7

Japan

5 Measurement Uncertainty

The reported measurement uncertainty is based on a value obtained by multiplying standard uncertainty by coverage factor of k=2, and a level of confidence becomes 95 %.

Item	Parameter	U_{lab}	U_{cispr}
Conducted Emission, V-AMN	9kHz to 150kHz	± 3.7 dB	± 3.8 dB
Conducted Emission, V-AMN	150kHz to 30MHz	± 3.3 dB	± 3.4 dB
Conducted Emission, Δ-AN	150kHz to 30MHz	± 4.9 dB	-
Conducted Emission, AN	150kHz to 30MHz	± 4.3 dB	-
Conducted Emission, AAN	150kHz to 30MHz	± 4.8 dB	± 5.0 dB
Conducted Emission, Voltage Probe	9kHz to 30MHz	± 2.8 dB	± 2.9 dB
Conducted Emission, Current Probe	150kHz to 30MHz	± 2.9 dB	± 2.9 dB
Disturbance Power	30MHz to 300MHz	± 3.8 dB	± 4.5 dB
Radiated Emission	30MHz to 1000MHz	± 5.5 dB	± 6.3 dB
Radiated Emission	1GHz to 6GHz	± 4.9 dB	± 5.2 dB
Radiated Emission	6GHz to 18GHz	± 4.7 dB	± 5.5 dB
Radiated Emission	9kHz to 30MHz	± 3.2 dB	-

Judge	Measured value and standard limit value
PASS	**Case1**  Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	Case2  Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	**Case3**  Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	Case4  Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

Japan

6 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan
Phone: +81-238-28-2881

Accreditation and Registration

A2LA
Certificate #3686.03

VLAC
Accreditation No.: VLAC-013

BSMI
Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada
ISED#: 4224A

VCCI Council
Registration number: A-0166

Japan

Appendix A. Test Equipment

Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. due	Cal. Date
EMI receiver	ROHDE&SCHWARZ	ESR7	101742	31-Jan-2023	26-Jan-2022
Line impedance stabilization network	Kyoritsu Technology Corporation	TNW-407F2	12-17-110-1	30-Jun-2023	15-Jun-2022
Attenuator	HUBER+SUHNER	6810.01.A	N/A(S442)	28-Feb-2023	01-Feb-2022
Coaxial cable	FUJIKURA	5D-2W/5m	N/A(S336)	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX106/28m	501941/6	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/2m	MY15570/4	28-Feb-2023	02-Feb-2022
Software	TOYO Technica	ES10/CE-AJ	Ver.2021.10.001	N/A	N/A

Radiated emission (below 1 GHz)

Equipment	Company	Model No.	Serial No.	Cal. due	Cal. date
EMI receiver	ROHDE&SCHWARZ	ESR7	101742	31-Jan-2023	26-Jan-2022
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1333	31-Dec-2022	15-Dec-2021
Log-periodic antenna	Schwarzbeck	VUSLP9111B	345	31-Oct-2022	19-Oct-2021
Attenuator	TDC	TAT-43B-03	N/A(S396)	31-Oct-2022	28-Oct-2021
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S549)	30-Sep-2023	28-Sep-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/1m	SN MY20467/6	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	811447/4	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX106/10m	501942/6	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/2m	MY34424/4	28-Feb-2023	02-Feb-2022
Preamplifier	SONOMA	310	400316	31-Mar-2023	03-Mar-2022
10m Semi-anechoic Chamber	TOKIN	N/A	N/A(9005-NSA3m/TTΦ3m)	31-Oct-2022	08-Oct-2021
Software	TOYO Technica	ES10/RE-AJ	Ver.2021.10.001	N/A	N/A

Radiated emission (above 1 GHz)

Equipment	Company	Model No.	Serial No.	Cal. due	Cal. date
Spectrum analyzer	ROHDE&SCHWARZ	FSV40	101732	31-Mar-2023	3-Mar-2022
Low Noise Pre Amplifier	tsj	MLA-0118-J02-40	19326	31-Dec-2022	23-Dec-2021
Double ridged guide antenna	ETS LINDGREN	3117	00224193	30-Apr-2023	27-Apr-2022
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2341)	31-Dec-2022	23-Dec-2021
Microwave cable	HUBER+SUHNER	SUCOFLEX104/1m	MY38347/4	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	811446/4	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX106/10m	501942/6	28-Feb-2023	02-Feb-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/2m	MY34424/4	28-Feb-2023	02-Feb-2022
Absorber	NEC TOKIN	TFA	N/A	N/A	N/A
10m Semi-anechoic Chamber	TOKIN	N/A	N/A(9005-SVSWR/TTΦ3m)	31-Oct-2022	08-Oct-2021
Software	TOYO Technica	ES10/RE-AJ	Ver.2021.10.001	N/A	N/A