

Report on the RF Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1055
FCC ID: JOYEB1055

In accordance with FCC Part 15 Subpart C
(15.225)

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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 C (15.225).

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Contents

1	Summary of Test	3
1.1	Modification history of the test report	3
1.2	Standards	3
1.3	Test methods.....	3
1.4	Deviation from standards	3
1.5	List of applied test(s) of the EUT	3
1.6	Test information.....	3
1.7	Test set up.....	3
1.8	Test period	3
2	Equipment Under Test.....	4
2.1	EUT information	4
2.2	Modification to the EUT	4
2.3	Variation of family model(s).....	5
2.4	Operating mode.....	5
2.5	Operating flow	5
3	Configuration of Equipment.....	6
3.1	Equipment used	6
3.2	Cable(s) used	6
3.3	System configuration.....	6
4	Test Result	7
4.1	Occupied Bandwidth	7
4.2	Operation within the band 13.110-14.010MHz	9
4.3	Radiated Emissions.....	13
4.4	Frequency Tolerance	17
4.5	AC Power Line Conducted Emissions	19
5	Antenna requirement	23
6	Measurement Uncertainty	24
7	Laboratory Information.....	25
	Appendix A. Test Equipment.....	26

1 Summary of Test

1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-20196-0	First Issue	Refer to the cover page

1.2 Standards

CFR47 FCC Part 15 Subpart C (15.225)

1.3 Test methods

ANSI C63.10-2013

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Test item section	Test item	Condition	Result	Remark
2.1049 RSS-Gen 6.7	Occupied Bandwidth	Conducted	PASS	-
15.209 15.225 (a)(b)(c)(d)	Operation within the band 13.110-14.010MHz	Radiated	PASS	-
15.209 15.225 (d)	Transmitter Radiated Spurious Emissions	Radiated	PASS	-
15.225 (e)	Frequency Tolerance	Conducted	PASS	-
15.207	AC Power Line Conducted Emissions	Conducted	PASS	-

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

3-September-2020 - 10-September-2020

2 Equipment Under Test

2.1 EUT information

Applicant	KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314
Equipment Under Test (EUT)	Mobile Phone
Model number	EB1055
Serial number	N/A
Trade name	Kyocera
Number of sample(s)	1
EUT condition	Pre-Production
Power rating	Battery: DC 3.85 V
Size	(W) 76.0 × (D) 8.7 × (H) 162.0 mm
Environment	Indoor and Outdoor use
Terminal limitation	-20 °C to 60 °C
Hardware version	DMT1
Software version	0.020SI.0020.a
Firmware version	Not applicable
RF Specification	
Frequency range	13.56MHz
Modulation method	ASK
Antenna type	Loop antenna

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
Model: EB1055, Serial Number: N/A			
0	As supplied by the applicant	Not Applicable	Not Applicable



Japan

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 Operating mode

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.

The worst emission was found in Z-axis and the worst case recorded.

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.

2.5 Operating flow

[Tx mode]

- i) NFC test program setup to the Software
- ii) Start test mode



3 Configuration of Equipment

Numbers assigned to equipment on the diagram in “3.3 System configuration” correspond to the list in “3.1 Equipment used” and “3.2 Cable(s) used”.

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	Comment
1	Mobile Phone	KYOCERA	EB1055	N/A	JOYEB1055	EUT
2	AC Adapter	KDDI	0301PQA	N/A	N/A	*

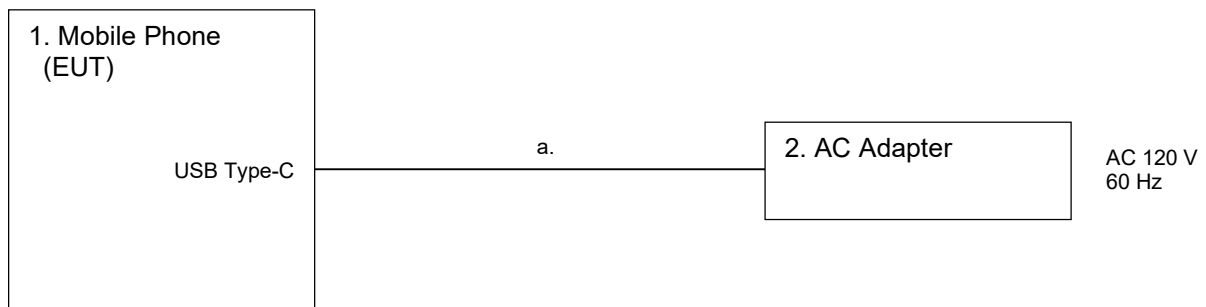
*:AC power line Conducted Emission Test.

3.2 Cable(s) used

No.	Equipment	Length[m]	Shield	Connector	Comment
a	USB cable (for AC Adapter)	1.0	Yes	Metal	*

*:AC power line Conducted Emission Test.

3.3 System configuration





4 Test Result

4.1 Occupied Bandwidth

4.1.1 Measurement procedure

[FCC 2.1049, RSS-Gen 6.7]

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to approach 1% of the selected span or less than 1%. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

The spectrum analyzer is set to;

- RBW=1kHz, VBW=3kHz, Span=100kHz, Sweep=auto, Detector=Peak, Trace mode = max hold.

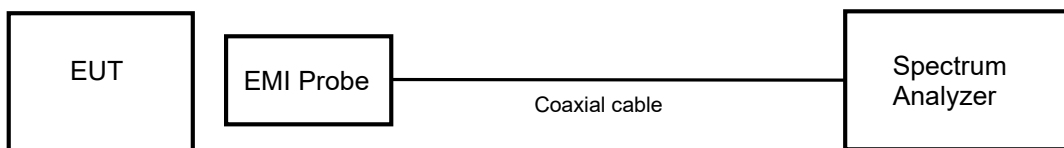
The EUT was set to operate with following conditions.

- 13.56MHz

The test mode of EUT is as follows.

- Transmit mode

- Test configuration



4.1.2 Limit

None

4.1.3 Measurement result

Date : 10-September-2020

Temperature : 23.3 [°C]

Humidity : 56.8 [%]

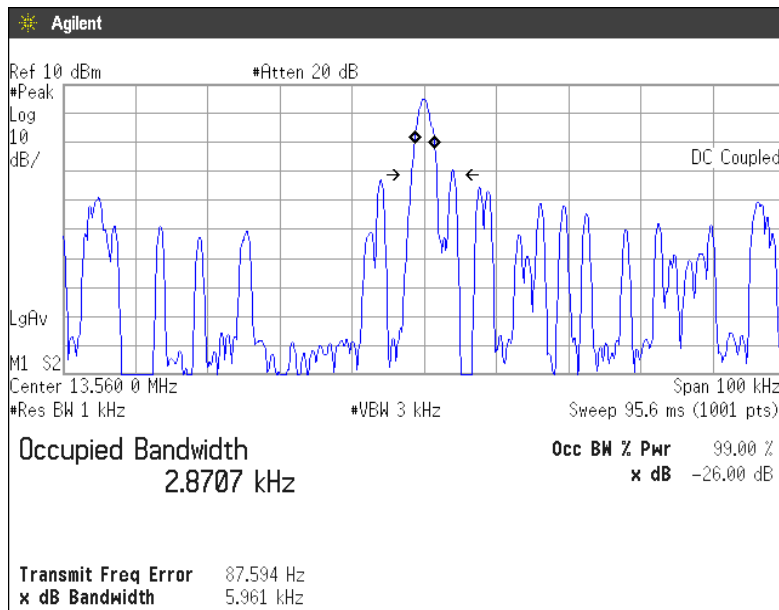
Test place : Shielded room No.4

Test engineer :

Chiaki Kanno

Frequency (MHz)	Occupied Bandwidth (kHz)
13.56	2.8707

4.1.4 Trace data



4.2 Operation within the band 13.110-14.010MHz

4.2.1 Measurement procedure

[FCC 15.209, 15.225 (a)(b)(c)(d)]

Test was applied by following conditions.

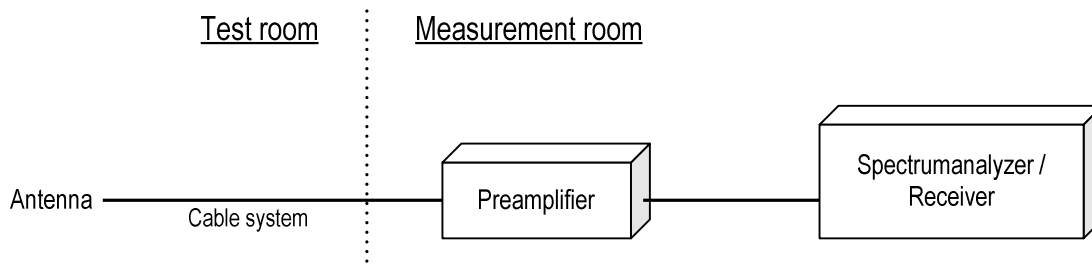
Test method	:	ANSI C63.10
Frequency range	:	13.110MHz to 14.010MHz
Test place	:	3m Semi-anechoic chamber
EUT was placed on	:	Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m
Antenna distance	:	3m

Test receiver setting

- Detector	:	Quasi-peak
- Bandwidth	:	9kHz

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements frequency range 13.110MHz to 14.010MHz were performed with test receiver in above setting. The turntable and the Loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



4.2.2 Calculation method

Emission level = Reading + (Ant. factor + Cable system loss – Amp. Gain)

Margin = Limit – Emission level

4.2.3 Limit

- (a) The field strength of any emissions within the band 13.553-13.567MHz shall not exceed 15,848uV/m at 30m.
- (b) Within the band 13.410-13.553MHz and 13.567-13.710MHz, the field strength of any emissions shall not exceed 334uV/m at 30m.
- (c) Within the band 13.110-13.410MHz and 13.710-14.010MHz, the field strength of any emissions shall not exceed 106uV/m at 30m.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010MHz and shall not exceed the general radiated emission limits in FCC 15.209.

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = 20log Emission [uV/m]
3. Measurements were corrected to 30m using $40\log(3/30) = -40.0\text{dB}$

4.2.4 Test data

Date : 3-September-2020
 Temperature : 24.3 [°C]
 Humidity : 64.3 [%]
 Test place : Shielded room No.4

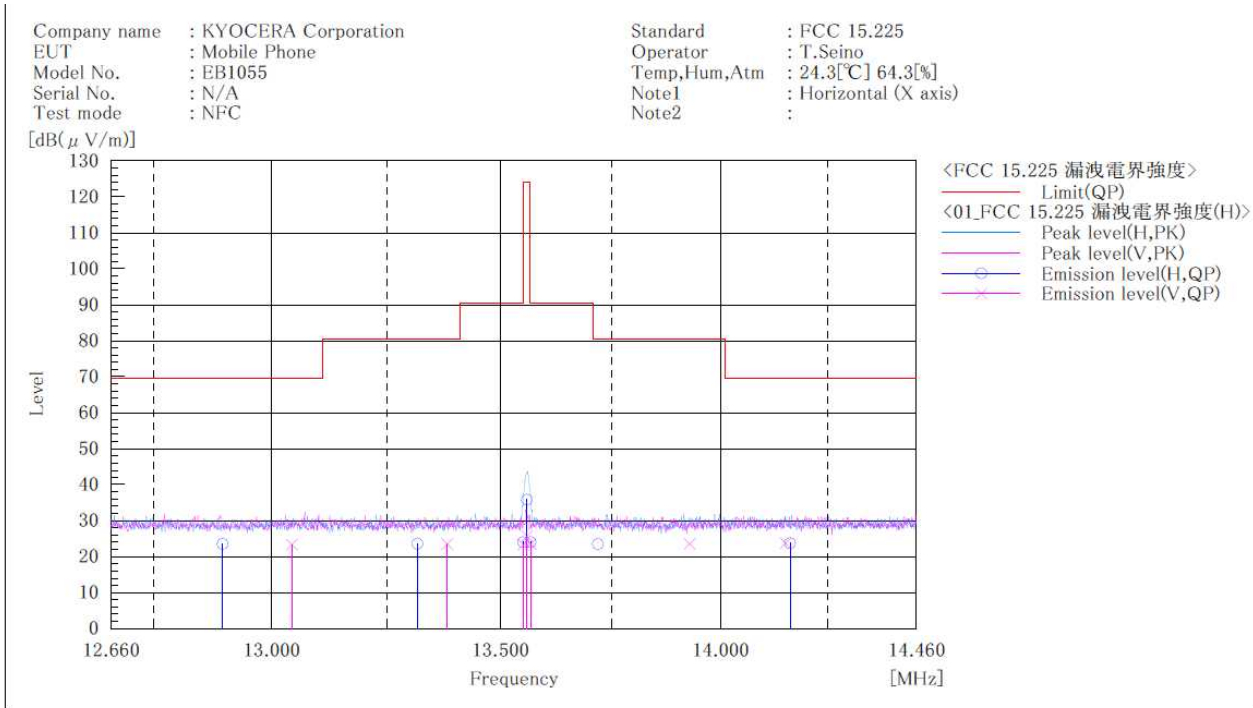
Test engineer :

Tadahiro Seino

Frequency range (MHz)	Frequency (MHz)	Level		Limit (dBuV/m)	Margin (dB)	Result
		Measured at 3m (dBuV/m)	Measured at 30m (dBuV/m)			
13.553-13.567	13.560	53.1	13.1	84.0	70.9	PASS
13.41-13.553	13.552	36.6	-3.4	50.5	53.9	PASS
13.567-13.71	13.568	36.5	-3.5	50.5	54.0	PASS
13.11-13.41	13.317	30.5	-9.5	40.5	50.0	PASS
13.71-14.01	13.842	30.5	-9.5	40.5	50.0	PASS
12.66-13.11	12.896	30.5	-9.5	29.5	39.0	PASS
14.01-14.46	14.213	30.5	-9.5	29.5	39.0	PASS



4.2.5 Trace data



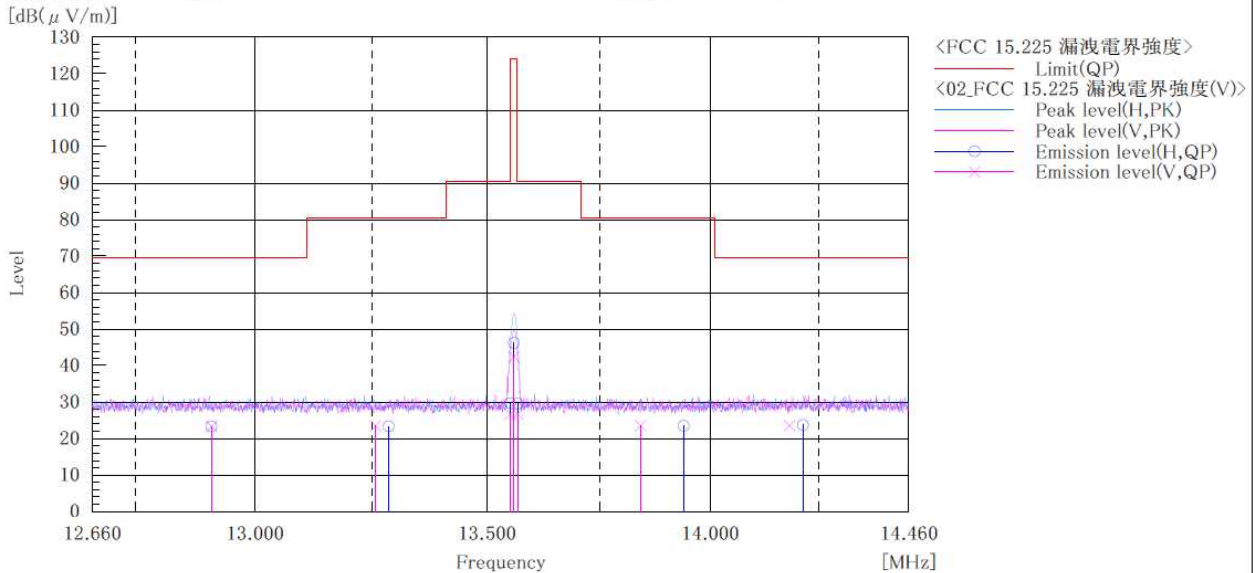
Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c. f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]
1	13.560	V	32.6	-6.9	25.7	124.0	98.3	100.0	275.0
2	13.552	V	30.3	-6.9	23.4	90.5	67.1	100.0	275.0
3	13.568	V	30.4	-6.9	23.5	90.5	67.0	100.0	275.0
4	13.383	V	30.4	-6.9	23.5	80.5	57.0	100.0	336.0
5	13.929	V	30.5	-6.9	23.6	80.5	56.9	100.0	10.0
6	13.044	V	30.4	-7.0	23.4	69.5	46.1	100.0	330.0
7	14.151	V	30.5	-6.8	23.7	69.5	45.8	100.0	349.0
8	13.560	H	42.7	-6.9	35.8	124.0	88.2	100.0	350.0
9	13.552	H	30.9	-6.9	24.0	90.5	66.5	100.0	350.0
10	13.568	H	30.9	-6.9	24.0	90.5	66.5	100.0	350.0
11	13.317	H	30.5	-6.9	23.6	80.5	56.9	100.0	12.0
12	13.720	H	30.4	-6.9	23.5	80.5	57.0	100.0	350.0
13	12.896	H	30.5	-7.0	23.5	69.5	46.0	100.0	56.0
14	14.162	H	30.5	-6.8	23.7	69.5	45.8	100.0	99.0



Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1055
 Serial No. : N/A
 Test mode : NFC

Standard : FCC 15.225
 Operator : T.Seino
 Temp,Hum,Atm : 24.3[°C] 64.3[%]
 Note1 : Vertical (Z axis)
 Note2 :



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c. f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]
1	13.560	V	49.3	-6.9	42.4	124.0	81.6	100.0	90.0
2	13.552	V	33.7	-6.9	26.8	90.5	63.7	100.0	90.0
3	13.568	V	33.6	-6.9	26.7	90.5	63.8	100.0	90.0
4	13.258	V	30.4	-6.9	23.5	80.5	57.0	100.0	15.0
5	13.842	V	30.5	-6.9	23.6	80.5	56.9	100.0	336.0
6	12.908	V	30.4	-7.0	23.4	69.5	46.1	100.0	114.0
7	14.182	V	30.4	-6.8	23.6	69.5	45.9	100.0	288.0
8	13.560	H	53.1	-6.9	46.2	124.0	77.8	100.0	180.0
9	13.552	H	36.6	-6.9	29.7	90.5	60.8	100.0	180.0
10	13.568	H	36.5	-6.9	29.6	90.5	60.9	100.0	180.0
11	13.286	H	30.3	-6.9	23.4	80.5	57.1	100.0	35.0
12	13.940	H	30.4	-6.9	23.5	80.5	57.0	100.0	232.0
13	12.908	H	30.4	-7.0	23.4	69.5	46.1	100.0	165.0
14	14.213	H	30.5	-6.8	23.7	69.5	45.8	100.0	0.0

4.3 Radiated Emissions

4.3.1 Measurement procedure

[FCC 15.209, 15.225 (d)]

Test was applied by following conditions.

Test method	:	ANSI C63.10
Frequency range	:	9kHz to 30MHz
Test place	:	3m Semi-anechoic chamber
EUT was placed on	:	Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m
Antenna distance	:	3m

Test receiver setting

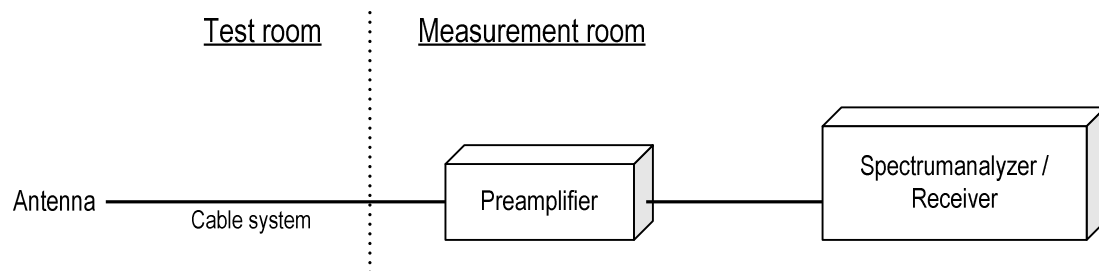
- Detector	:	Average (9kHz-90kHz, 110kHz-490kHz), Quasi-peak
- Bandwidth	:	200Hz, 9kHz

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 937606.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 30MHz were performed with test receiver in above setting. The turntable and the Loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



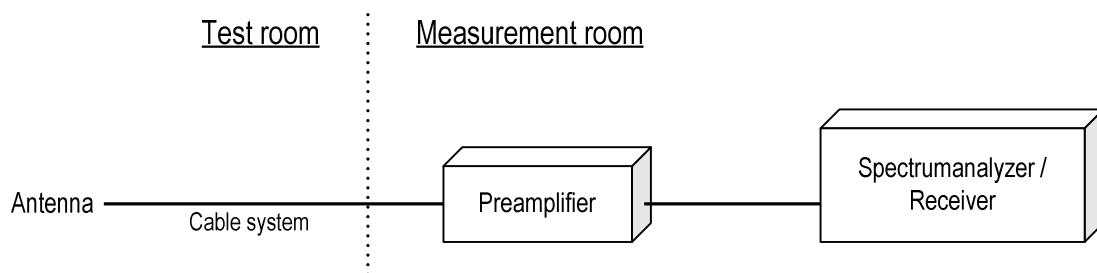
Test was applied by following conditions.

Test method : ANSI C63.10
 Frequency range : 30MHz to 1000MHz
 Test place : 3m Semi-anechoic chamber
 EUT was placed on : Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m
 Antenna distance : 3m

Test receiver setting
 - Detector : Quasi-peak
 - Bandwidth : 120kHz

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 1000MHz were performed with test receiver in above setting. In order to find the maximum emissions, antenna is adjusted between 1m and 4m in height and varied its polarization (horizontal and vertical), and EUT azimuth was also varied by rotating turntable 0 to 360 degrees. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



4.3.2 Calculation method

[9kHz to 150kHz]

Emission level = Reading + (Ant. factor + Cable system loss)

Margin = Limit – Emission level

[150kHz to 1000MHz]

Emission level = Reading + (Ant. factor + Cable system loss – Amp. Gain)

Margin = Limit – Emission level

4.3.3 Limit

Frequency [MHz]	Field strength		Distance [m]
	[uV/m]	[dBuV/m]	
0.009-0.490	2400 / F [kHz]	20logE [uV/m]	300
0.490-1.705	24000 / F [kHz]	20logE [uV/m]	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = 20log Emission [uV/m]
3. Measurements were corrected to 300m using $40\log(3/300) = -80.0\text{dB}$
Measurements were corrected to 30m using $40\log(3/30) = -40.0\text{dB}$



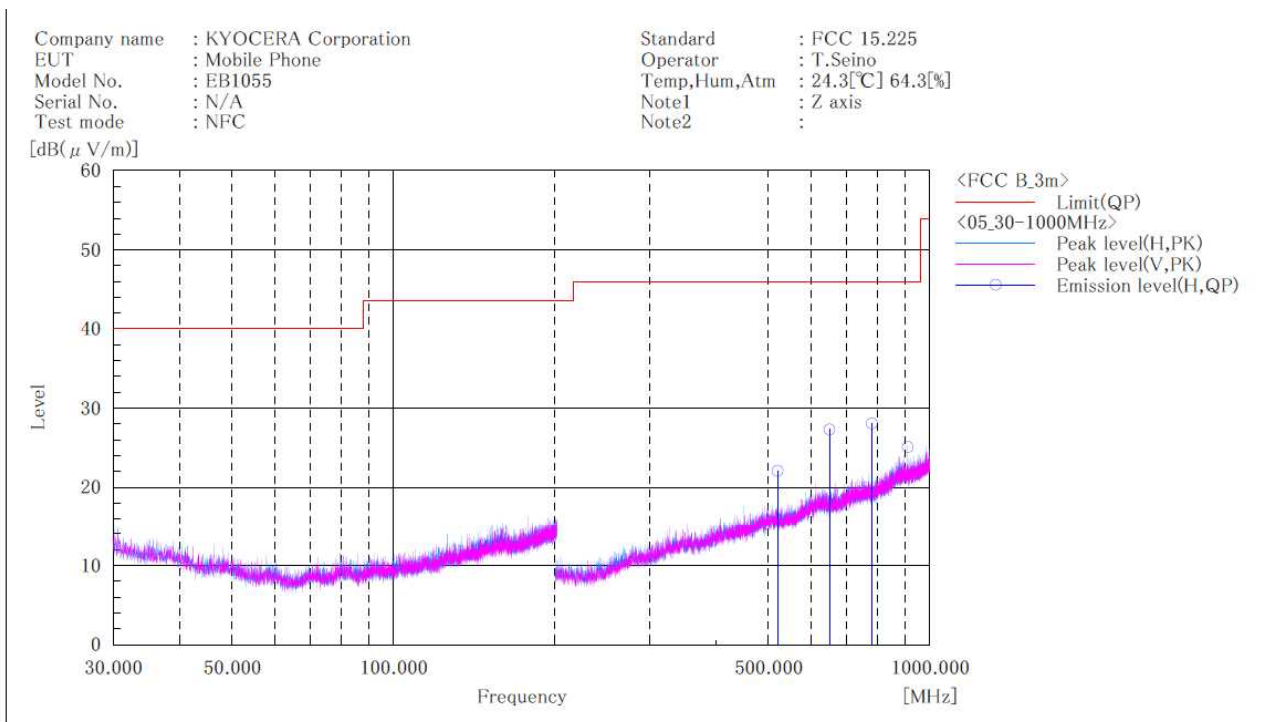
4.3.4 Test data

Date : 3-September-2020
 Temperature : 24.3 [°C]
 Humidity : 64.3 [%]
 Test place : 3m Semi-anechoic chamber
 Test engineer : Tadahiro Seino

[9kHz to 30MHz]

Frequency (MHz)	Reading [dBuV] At 3m	c.f [dB(1/m)]	Result [dBuV/m] At 3m	Result [dBuV/m] At 30m	Limit [dBuV/m] At 30m	Margin (dB)	Result
27.12	29.0	-5.2	23.8	-16.2	29.5	45.7	PASS

[30MHz to 1000MHz]



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]
1	520.010	H	31.3	-9.2	22.1	46.0	23.9	170.0	0.0
2	650.002	H	34.5	-7.2	27.3	46.0	18.7	132.0	0.0
3	780.030	H	33.8	-5.7	28.1	46.0	17.9	108.0	0.0
4	910.003	H	28.0	-2.9	25.1	46.0	20.9	100.0	0.0

4.4 Frequency Tolerance

4.4.1 Measurement procedure

[FCC 15.205 (e)]

The EUT was placed of an inside of an constant temperature chamber as the temperature in the chamber was varied between -30°C and $+50^{\circ}\text{C}$. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channels center frequency was recorded.

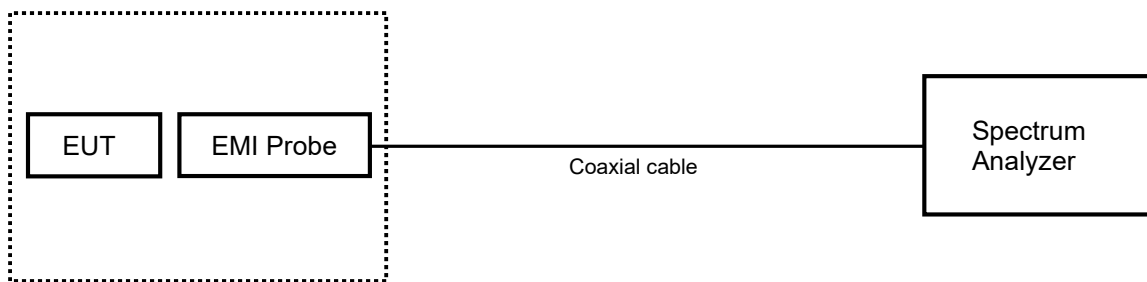
The EUT was set to operate with following conditions.

- 13.56MHz

The test mode of EUT is as follows.

- Transmit mode

- Test configuration



Constant Temperature Chamber

4.4.2 Limit

The Frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ over a temperature variation of -30 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.



4.4.3 Test data

Date : 10-September-2020
 Temperature : 23.3 [°C]
 Humidity : 56.8 [%]
 Test place : Shielded room No.4

Test engineer : Chiaki Kanno

Reference Frequency: EUT Channel 13.56MHz at 20°C											
Limit: ±0.01% = ±100ppm = ±0.00135603MHz											
Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)	Limit	Result
[V]	[°C]	[MHz]	[ppm]	[MHz]	[ppm]	[MHz]	[ppm]	[MHz]	[ppm]	[ppm]	
3.85	50	13.559920	-5.900	13.560230	16.962	13.560260	19.174	13.560240	17.699	± 100	PASS
	40	13.559915	-6.268	13.560255	18.805	13.560240	17.699	13.560235	17.330		
	30	13.559915	-6.268	13.560245	18.068	13.560235	17.330	13.560250	18.437		
	20	13.560000	-	13.560250	18.437	13.560255	18.805	13.560260	19.174		
	10	13.559955	-3.319	13.560265	19.543	13.560260	19.174	13.560255	18.805		
	0	13.559940	-4.425	13.560280	20.649	13.560255	18.805	13.560275	20.280		
	-10	13.559990	-0.737	13.560260	19.174	13.560285	21.018	13.560290	21.386		
	-20	13.560025	1.844	13.560230	16.962	13.560230	16.962	13.560245	18.068		
	-30	13.560030	2.212	13.560230	16.962	13.560235	17.330	13.560215	15.855		
3.42	20	13.559950	-3.687	13.560246	18.142	13.560240	17.699	13.560245	18.068		
4.18	20	13.559960	-2.950	13.560250	18.437	13.560255	18.805	13.560255	18.805		

Note. Frequency Tolerance (ppm) = (Measurements Frequency (MHz) – Reference Frequency (MHz)) / Reference Frequency (MHz) x 1000000

The primary power supply voltage rating of this EUT is 85% to 115%

4.5 AC Power Line Conducted Emissions

4.5.1 Measurement procedure

[FCC 15.207]

Test was applied by following conditions.

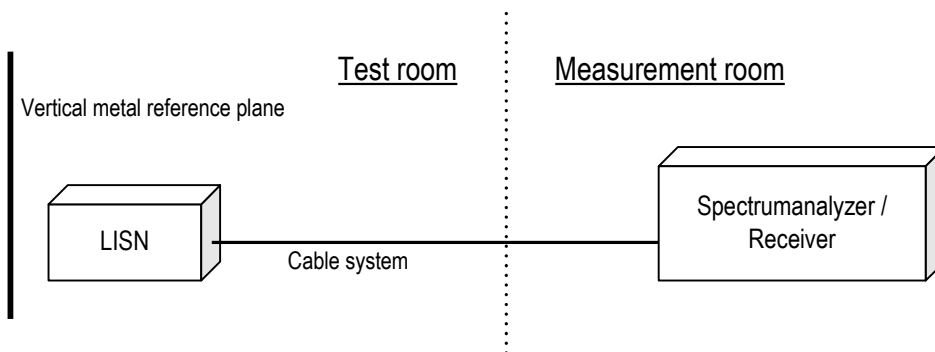
Test method	:	ANSI C63.10
Frequency range	:	0.15 MHz to 30 MHz
Test place	:	3 m Semi-anechoic chamber
EUT was placed on	:	FRP table / (W)2.0 m × (D)1.0 m × (H)0.8 m
Vertical Metal Reference Plane	:	(W)2.0 m × (H)2.0 m 0.4 m away from EUT
Test receiver setting		
- Detector	:	Quasi-peak, Average
- Bandwidth	:	9 kHz

EUT and peripherals are connected to 50Ω/50μH Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



4.5.2 Calculation method

Emission level = Reading + (LISN. Factor + Cable system loss)

Margin = Limit – Emission level

Example:

Limit @ 6.770 MHz : 60.0 dB μ V(Quasi-peak)

: 50.0 dB μ V(Average)

(Quasi peak) Reading = 41.2 dB μ V c.f = 10.3 dB

Emission level = 41.2 + 10.3 = 51.5 dB μ V

Margin = 60.0 – 51.5 = 8.5 dB

(Average) Reading = 35.0 dB μ V c.f = 10.3 dB

Emission level = 35.0 + 10.3 = 45.3 dB μ V

Margin = 50.0 – 45.3 = 4.7 dB

4.5.3 Limit

Frequency [MHz]	Limit	
	QP [dB μ V]	AV [dB μ V]
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

*: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

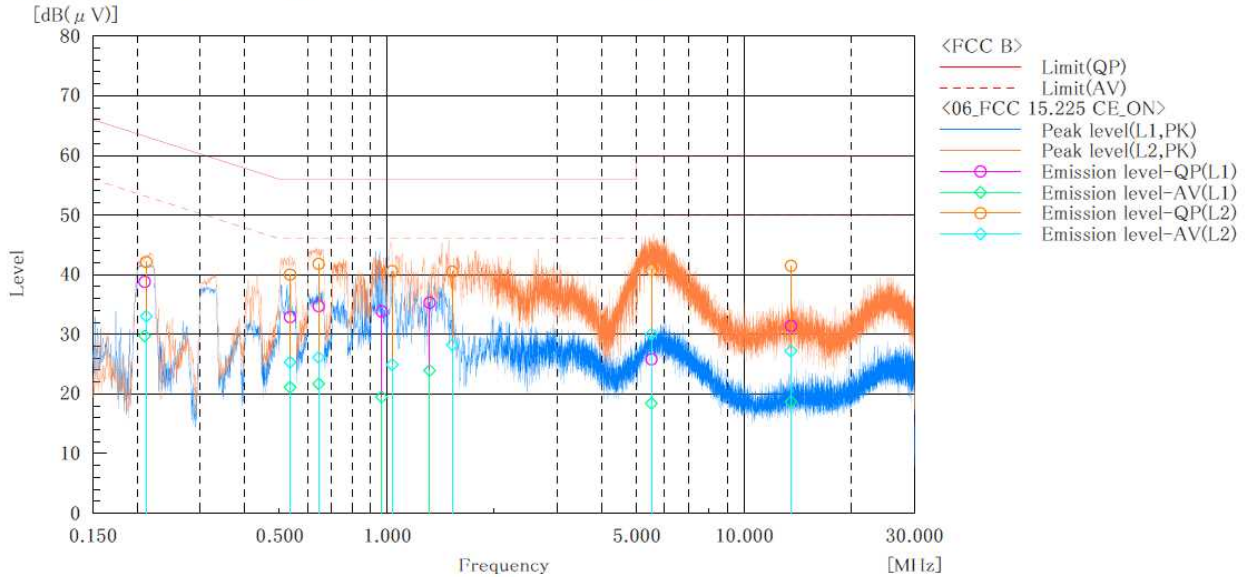


4.5.4 Test data

[Transmit ON]

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1055
 Serial No. : N/A
 Test mode : NFC_13.56MHz_Transmit_ON

Standard : FCC Part15 Subpart C (15.225)
 Operator : T.Seino
 Temp,Hum,Atm : 24.3[°C] 64.3[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.210	28.4	19.3	10.4	38.8	29.7	63.2	53.2	24.4	23.5
2	0.536	22.5	10.7	10.4	32.9	21.1	56.0	46.0	23.1	24.9
3	0.645	24.3	11.3	10.4	34.7	21.7	56.0	46.0	21.3	24.3
4	0.969	23.4	9.1	10.4	33.8	19.5	56.0	46.0	22.2	26.5
5	1.319	24.9	13.5	10.4	35.3	23.9	56.0	46.0	20.7	22.1
6	5.516	15.1	7.7	10.7	25.8	18.4	60.0	50.0	34.2	31.6
7	13.560	20.0	7.3	11.4	31.4	18.7	60.0	50.0	28.6	31.3

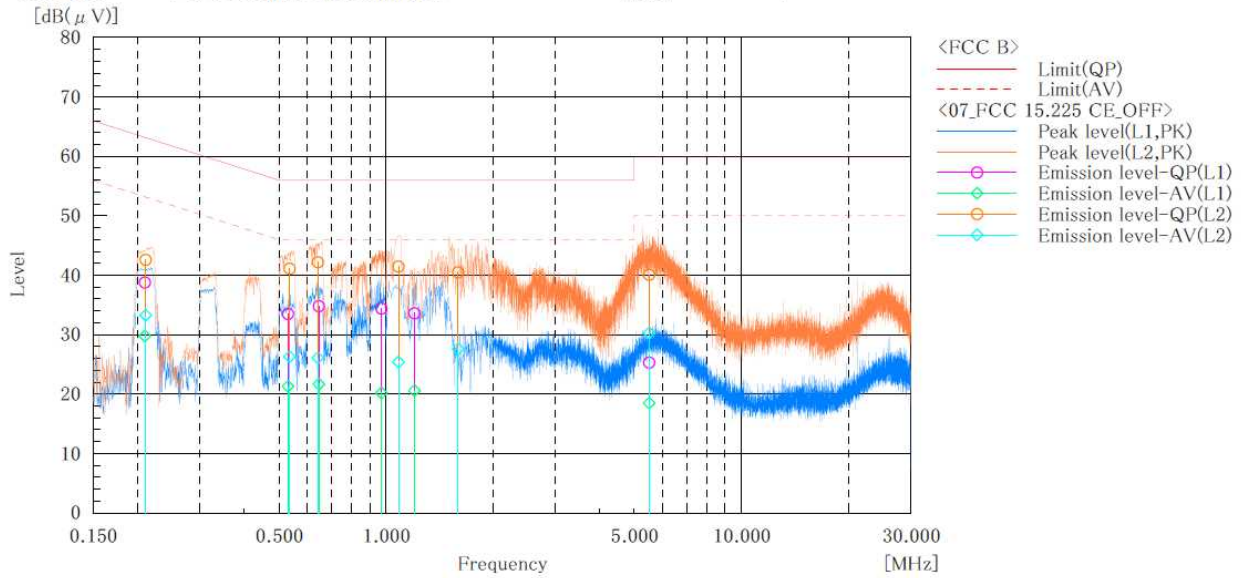
--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.212	31.7	22.6	10.4	42.1	33.0	63.1	53.1	21.0	20.1
2	0.536	29.6	14.9	10.4	40.0	25.3	56.0	46.0	16.0	20.7
3	0.645	31.4	15.7	10.4	41.8	26.1	56.0	46.0	14.2	19.9
4	1.036	30.2	14.5	10.4	40.6	24.9	56.0	46.0	15.4	21.1
5	1.527	30.1	17.8	10.4	40.5	28.2	56.0	46.0	15.5	17.8
6	5.508	30.1	19.3	10.7	40.8	30.0	60.0	50.0	19.2	20.0
7	13.560	30.0	15.7	11.5	41.5	27.2	60.0	50.0	18.5	22.8



[Transmit OFF]

Company name : KYOCERA Corporation	Standard : FCC Part15 Subpart C (15.225)
EUT : Mobile Phone	Operator : T.Seino
Model No. : EB1055	Temp,Hum,Atm : 24.3[°C] 64.3[%]
Serial No. : N/A	Note1 :
Test mode : NFC_13.56MHz_Transmit_OFF	Note2 :



Final Result

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.210	28.4	19.4	10.4	38.8	29.8	63.2	53.2	24.4	23.4
2	0.531	23.1	10.9	10.4	33.5	21.3	56.0	46.0	22.5	24.7
3	0.648	24.4	11.3	10.4	34.8	21.7	56.0	46.0	21.2	24.3
4	0.971	24.0	9.8	10.4	34.4	20.2	56.0	46.0	21.6	25.8
5	1.204	23.2	10.2	10.4	33.6	20.6	56.0	46.0	22.4	25.4
6	5.504	14.6	7.8	10.7	25.3	18.5	60.0	50.0	34.7	31.5

--- L2 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
1	0.211	32.2	22.9	10.4	42.6	33.3	63.2	53.2	20.6	19.9
2	0.536	30.7	15.9	10.4	41.1	26.3	56.0	46.0	14.9	19.7
3	0.644	31.8	15.7	10.4	42.2	26.1	56.0	46.0	13.8	19.9
4	1.085	31.1	15.0	10.4	41.5	25.4	56.0	46.0	14.5	20.6
5	1.596	30.1	17.2	10.4	40.5	27.6	56.0	46.0	15.5	18.4
6	5.506	29.4	19.6	10.7	40.1	30.3	60.0	50.0	19.9	19.7



Japan

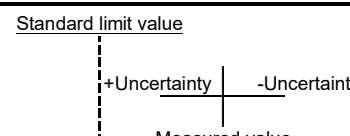

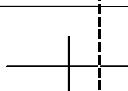
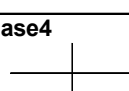
5 Antenna requirement

According to FCC section 15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. The antenna is a special antenna mounted inside of the EUT. Therefore, the EUT complies with the antenna requirement of FCC section 15.203.

6 Measurement Uncertainty

Expanded uncertainties stated are calculated with a coverage Factor k=2.
 Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or non-compliance with test result.

Test item	Measurement uncertainty
Conducted emission, AMN (9 kHz – 150 kHz)	±3.8 dB
Conducted emission, AMN (150 kHz – 30 MHz)	±3.4 dB
Radiated emission (9kHz – 30 MHz)	±3.9 dB
Radiated emission (30 MHz – 1000 MHz)	±4.9 dB
Radiated emission (1 GHz – 6 GHz)	±4.6 dB
Radiated emission (6 GHz – 18 GHz)	±4.9 dB
Radiated emission (18 GHz – 40 GHz)	±5.8 dB
Radio Frequency	±1.4 * 10 ⁻⁸
RF power, conducted	±0.6 dB
Temperature	±0.6 °C
Humidity	±1.2 %
Voltage (DC)	±0.4 %
Voltage (AC, <10kHz)	±0.2 %

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



Japan

7 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

Fax: +81-238-28-2888

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	Expiration date
A-0166	03-July-2021

Appendix A. Test Equipment

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Aug-2020	05-Aug-2019
Microwave cable	SUHNER	SUCOFLEX102/2m	31648	19-Aug-2021	20-Aug-2020
EMI Probe	ANRITSU	MA2601C	N/A(1753)	17-Oct-2020	18-Oct-2019
Temperature and humidity chamber	ESPEC	PL1KP	14007261	01-Sep-2021	02-Sep-2020

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	25-Sep-2020	26-Sep-2019
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	25-Oct-2020	26-Oct-2019
Preamplifier	SONOMA	310	372170	25-Sep-2020	26-Sep-2019
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	100515	14-Apr-2021	15-Apr-2020
Attenuator	TDC	TAT-43B-06	N/A(S209)	12-Jul-2021	13-Jul-2020
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1344	31-Dec-2020	4-Dec-2019
Log periodic antenna	Schwarzbeck	VUJSLP9111B	344	3-Apr-2021	4-Apr-2020
Attenuator	TAMAGAWA.ELEC	CFA-01/6dB	N/A(S466)	1-Oct-2020	2-Oct-2019
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	19-Jul-2021	20-Jul-2020
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	MY30037/4	7-Jan-2021	8-Jan-2020
		SUCOFLEX104/1m	my24610/4	7-Jan-2021	8-Jan-2020
		SUCOFLEX104/1.5m	MY19309/4	7-Jan-2021	8-Jan-2020
		SUCOFLEX104/7m	41625/6	7-Jan-2021	8-Jan-2020
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V5.6.0	N/A	N/A
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-NSA)	28-May-2021	29-May-2020

Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	24-Sep-2020	25-Sep-2019
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	7-Jan-2021	8-Jan-2020
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	KNW-407F2	12-17-110-2	2-Jun-2021	3-Jun-2020
Coaxial cable	FUJIKURA	5D-2W/4m	N/A (S350)	7-Jan-2021	8-Jan-2020
Coaxial cable	FUJIKURA	5D-2W/1m	N/A (S193)	7-Jan-2021	8-Jan-2020
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	7-Jan-2021	8-Jan-2020
PC	DELL	DIMENSION	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/CE-AJ	0611193/V5.4.11	N/A	N/A

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.