

TEST REPORT



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
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Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2022-02094
Page (1) / (31) Pages

1. Applicant

- Name : BITFINDER, INC.
- Address : 315 Montgomery Street, 10th Floor, San Francisco, California, United States
- Date of Receipt : 2022-05-13

2. Manufacturer

- Name : BITFINDER, INC.
- Address : 315 Montgomery Street, 10th Floor, San Francisco, California, United States

3. Use of Report : For FCC & ISED Certification

4. Test Sample / Model: AWAIR MESH SURFACE MOUNT / AWAIRNET

5. Date of Test : 2022-07-20 to 2022-08-01



6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.249 RSS-Gen Issue 5, RSS-210 Issue 10

7. Testing Environment: Temp.: (23 ± 1) °C, Humidity: (48 ± 3) % R.H.

8. Test Results : Compliance

9. Location of Test : Permanent Testing Lab On Site Testing

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

Approval	Tested by	Technical Manager
	Bong-seok Kim: (Signature) 	Young-taek Lee: (Signature) 

Remark. This report is not related to KOLAS accreditation and relevant regulation.

2022-08-08

CTK Co., Ltd.



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Report No.:
CTK-2022-02094
Page (2) / (31) Pages

REPORT REVISION HISTORY

Date	Revision	Page No
2022-08-08	Issued (CTK-2022-02094)	all

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Report No.:
CTK-2022-02094
Page (3) / (31) Pages

CONTENTS

1. General Product Description	4
1.1 Client Information	4
1.2 Product Information	4
1.3 Antenna Information	4
1.4 Peripheral Devices	4
2. Facility and Accreditations	5
2.1 Test Facility	5
2.2 Laboratory Accreditations and Listings	5
2.3 Calibration Details of Equipment Used for Measurement	5
3. Test Specifications	6
3.1 Standards	6
3.2 Mode of operation during the test	7
3.3 Maximum Measurement Uncertainty	9
4. Technical Characteristic Test	10
4.1 Emission Bandwidth	10
4.2 Band Edge	13
4.3 Field strength	15
4.4 AC Power line Conducted Emissions	28
APPENDIX A – Test Equipment Used For Tests	31



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 Page (4) / (31) Pages

1. General Product Description

1.1 Client Information

Company	BITFINDER, INC.
Contact Point	315 Montgomery Street, 10th Floor, San Francisco, California, United States
Contact Person	Name : Kevin Cho E-mail : adnan@getawair.com

1.2 Product Information

Product Description	AWAIR MESH SURFACE MOUNT
Model name	AWAIRNET
FCC ID	2AF65QWAIRNET
IC	28737-AWAIRNET
Operating Frequency	902.6 MHz ~ 927.4 MHz (125 Channels, 0.2 MHz Spacing)
RF Output Power	Below 94 dBuV/m @ 3 m
Antenna Specification	Antenna type : PIFA antenna Peak Gain : 3.542 dBi
Number of channels	125(0.2 MHz Spacing)
Type of Modulation	2-GFSK
FVIN	0.7.4.rev1
Power Source	DC 3.3 V

1.3 Antenna Information

<input type="checkbox"/>	Integral antenna (antenna permanently attached)
<input type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
<input checked="" type="checkbox"/>	External antenna (dedicated antennas)

1.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Notebook Computer	HP	15-bs563TU	CND7253QRM
AC Adapter	HP	HSTNN-LA40	7625207801
Notebook Computer	SAMSUNG	NT270E5J	JLTR91KF400148T
AC Adapter	SAMSUNG	CPA09-004A	AD-6019B
Notebook Computer	SAMSUNG	NT300E5K	0QNT91CJ100259F



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Report No.:
CTK-2022-02094
Page (5) / (31) Pages

2. Facility and Accreditations

2.1 Test Facility

The measurement facility is located at 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea.

2.2 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	8737A
KOREA	NRRA	KR0025

2.3 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



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Report No.:
CTK-2022-02094
Page (6) / (31) Pages

3. Test Specifications

3.1 Standards

FCC Part Section(s)	RSS Section(s)	Requirement(s)	Status (Note 1)	Report Clause
15.203	RSS-Gen 6.8	Antenna Requirement	C	1.3
-	RSS-Gen 6.7	Emission Bandwidth	C	4.1
15.249(a)	RSS-210 Annex F.1 (a)	Field Strength	C	4.3
15.249(d)	RSS-210 Annex F.1 (e)	Emissions radiated outside of the specified frequency bands	C	4.2
15.209	RSS-Gen 8.9	Radiated Emissions	C	4.3
15.207	RSS-Gen 8.8	AC Conducted Emission	C	4.4
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.				
<u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.249, ANSI C63.10-2013				

3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments. During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests. The results are only attached worst cases.

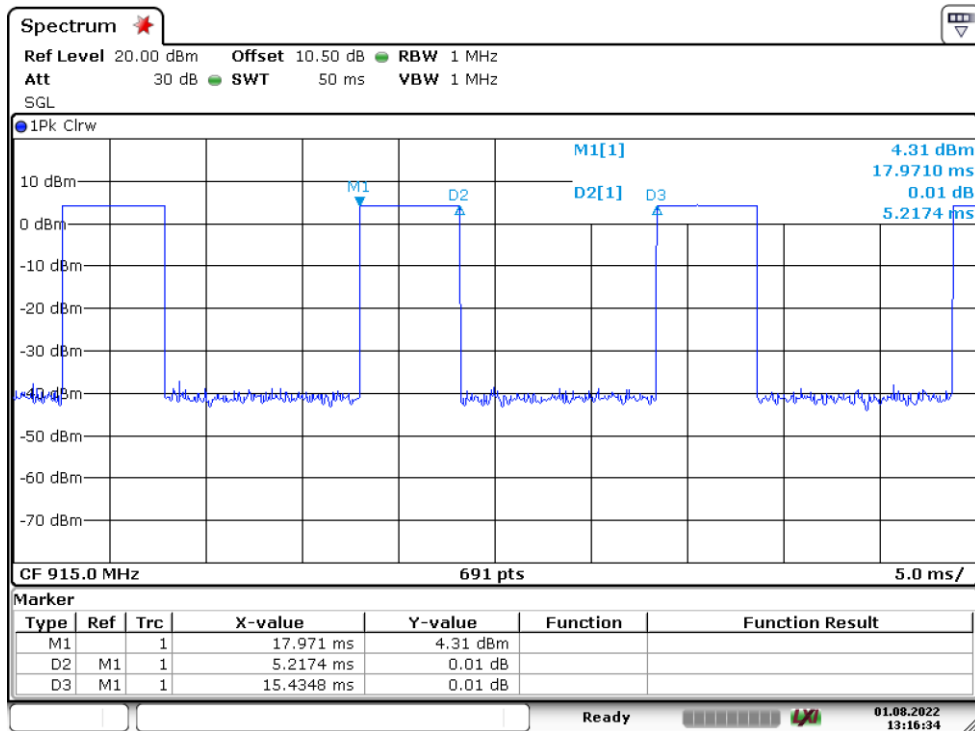
Test Frequency

Lowest channel	Middle channel	Highest channel
902.6 MHz	915.0 MHz	927.4 MHz

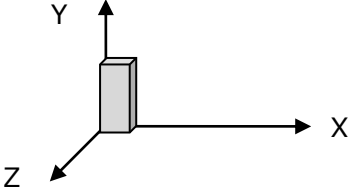
Type of test signal

TX mode	Duty cycle*
Continuous	0.338 (33.8 %)

*Duty cycle = TX on(time) / T(Period) = 5.217 4 ms / 15.434 8 ms = 0.338



The Worst Case Measurement Configuration

Tests Item	Radiated Emissions
Condition	Radiated measurement
User Position	<input type="checkbox"/> EUT will be placed in fixed position.
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions.
	<input type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.
	<input checked="" type="checkbox"/> The module depends on the end-product to which it is mounted.
EUT antenna faces identified relative to view from receiving antenna	



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Report No.:
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Page (9) / (31) Pages

3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted Emission	0.2 dB (C.L.: Approx. 95 %, $k=2$)
Radiated Emissions ($f \leq 1$ GHz)	3.88 dB (C.L.: Approx. 95 %, $k=2$)
Radiated Emissions ($f > 1$ GHz)	4.62 dB (C.L.: Approx. 95 %, $k=2$)
AC Conducted Emissions	1.94 dB (C.L.: Approx. 95 %, $k=2$)

4. Technical Characteristic Test

4.1 Emission Bandwidth

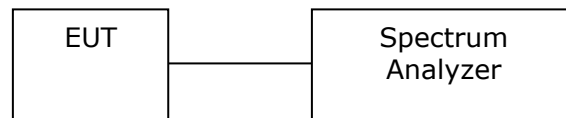
Requirement

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Test Procedures

For the emission bandwidth refer ANSI C63.10-2013, clause 6.9(Occupied bandwidth).

Test Setup

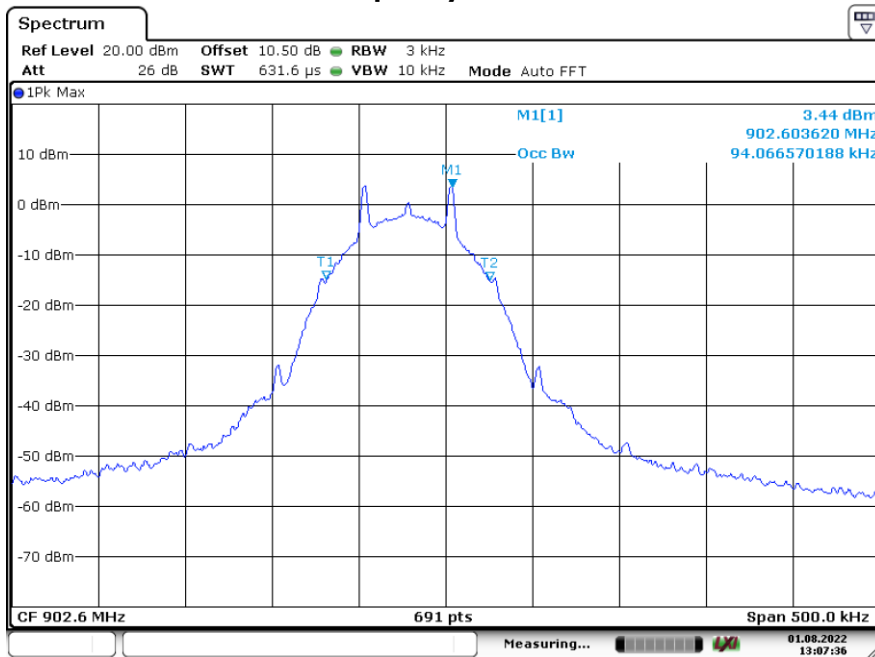




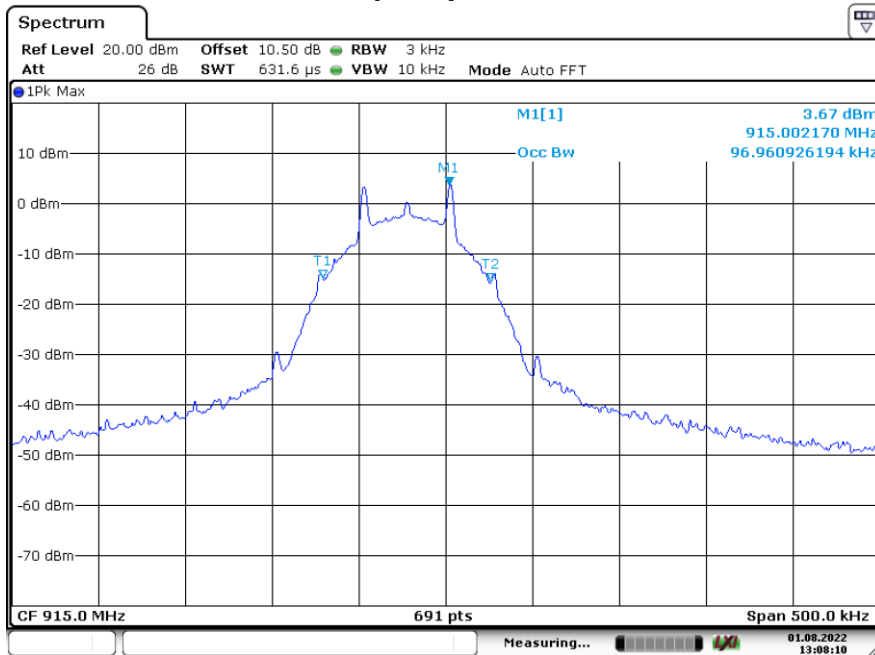
Test results

Test frequency (MHz)	99% Bandwidth (kHz)	Limit
902.6	94.067	N/A
915.0	96.961	
927.4	92.619	

Test frequency : 902.6 MHz



Test frequency : 915.0 MHz

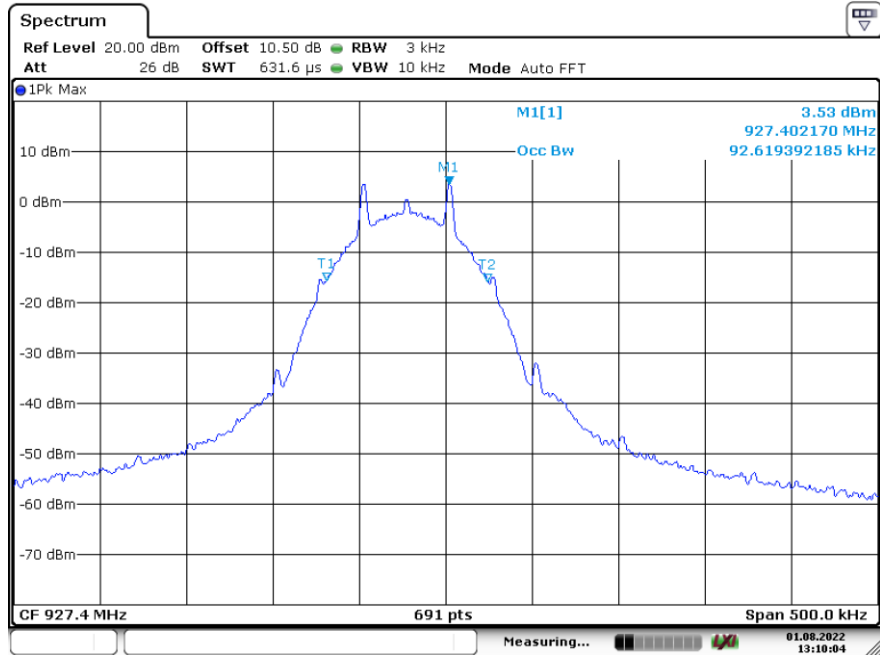




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Report No.:
CTK-2022-02094
Page (12) / (31) Pages

Test frequency : 927.4 MHz



4.2 Band Edge

Requirement

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Procedures(ANSI C63.10-2013 6.10)

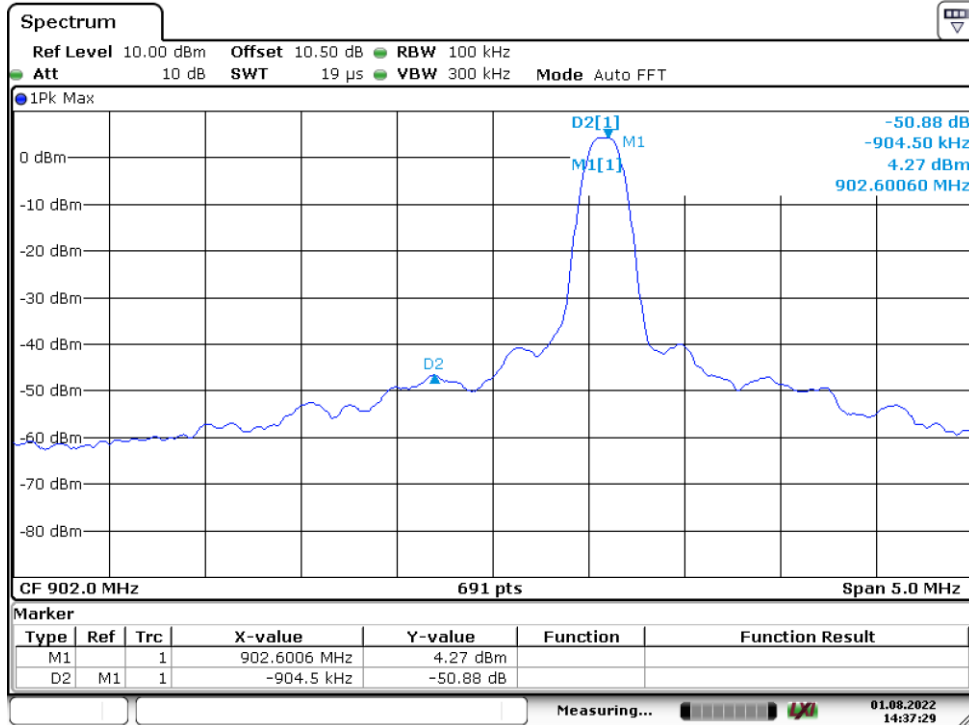
- a) Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent "normal mode of operation".
- d) Perform the test as follows:
 - 1) Span : Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
 - 2) RBW : 100 kHz
 - 3) VBW : 300 kHz
 - 4) Detector : Peak
 - 5) Sweep time = Coupled
 - 6) Trace : Max hold
 - 7) Attenuation : Auto(at least 10 dB preferred)
 - 8) Allow trace to fully stabilize
- e) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
- f) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).
- g) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test results: Complies

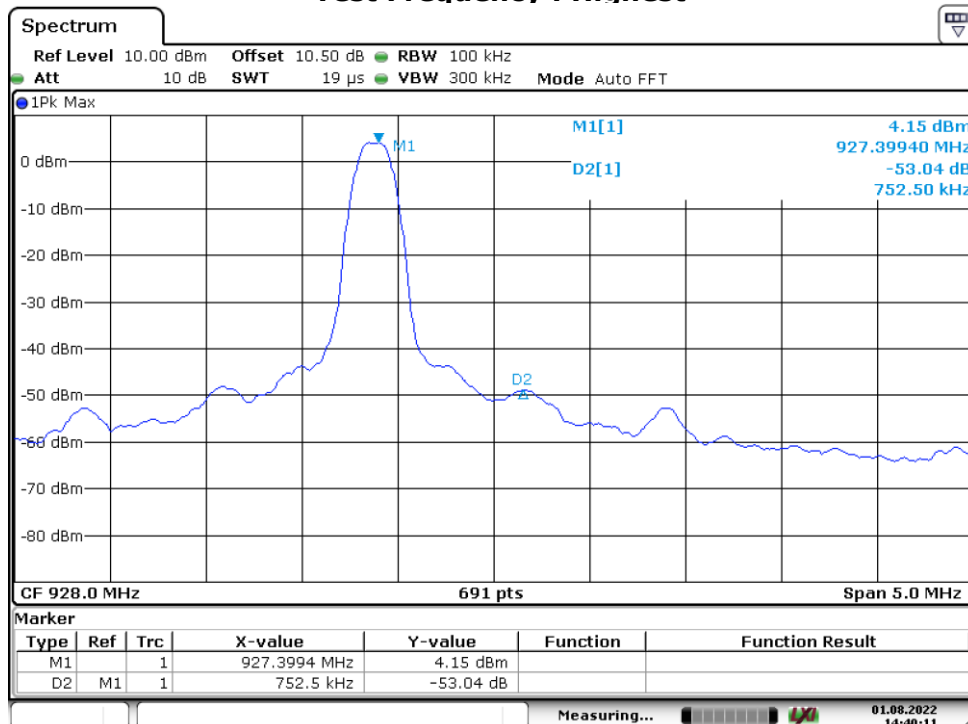
See next pages for actual measured spectrum plots.

Band-edge

Test Frequency : Lowest



Test Frequency : Highest





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CTK-2022-02094
Page (15) / (31) Pages

4.3 Field strength

Test Location

- 10 m SAC (test distance : 10 m, 3 m)
 3 m SAC (test distance : 3 m)

Test Procedures

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 10 GHz (10th harmonic)

- a) RBW = 1 MHz for $f \geq 1$ GHz, 120 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
- b) VBW \geq RBW
- c) Sweep time = auto couple

Requirement :

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Standards	Field strength of fundamental	Field strength of harmonics
902-928 MHz	FCC Part 15.249 (a)	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)
	RSS-210 Annex F.1 (a)	500 mV/m (114 dBuV/m)	1.6 mV/m (64 dBuV/m)

Field strength limits are specified at a distance of 3 meters.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209/RSS-Gen, whichever is the lesser attenuation.

FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (uV/m)	Field Strength (uA/m)	Field Strength (dBuV/m)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	6.37/F (F in kHz)	48.5 - 13.8	300
0.490-1.705	24000/F(kHz)	63.7/F (F in kHz)	33.8 - 23	30
1.705-30	30	0.08	29.5	30
30-88	100**	-	40	3
88-216	150**	-	43.5	3
216-960	200**	-	46	3
Above 960	500	-	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) Average value = Peak value + Duty cycle correction factor(For pulse timing characteristics such as fundamental and harmonic emissions)



FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

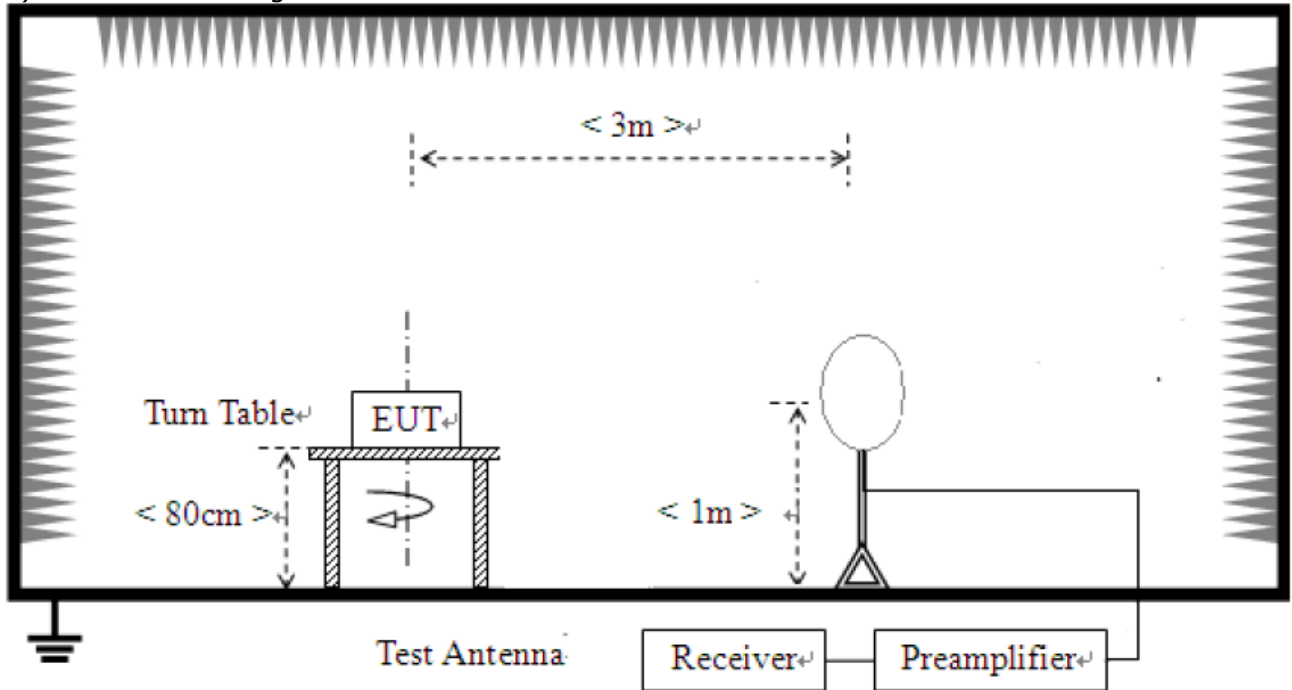
¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

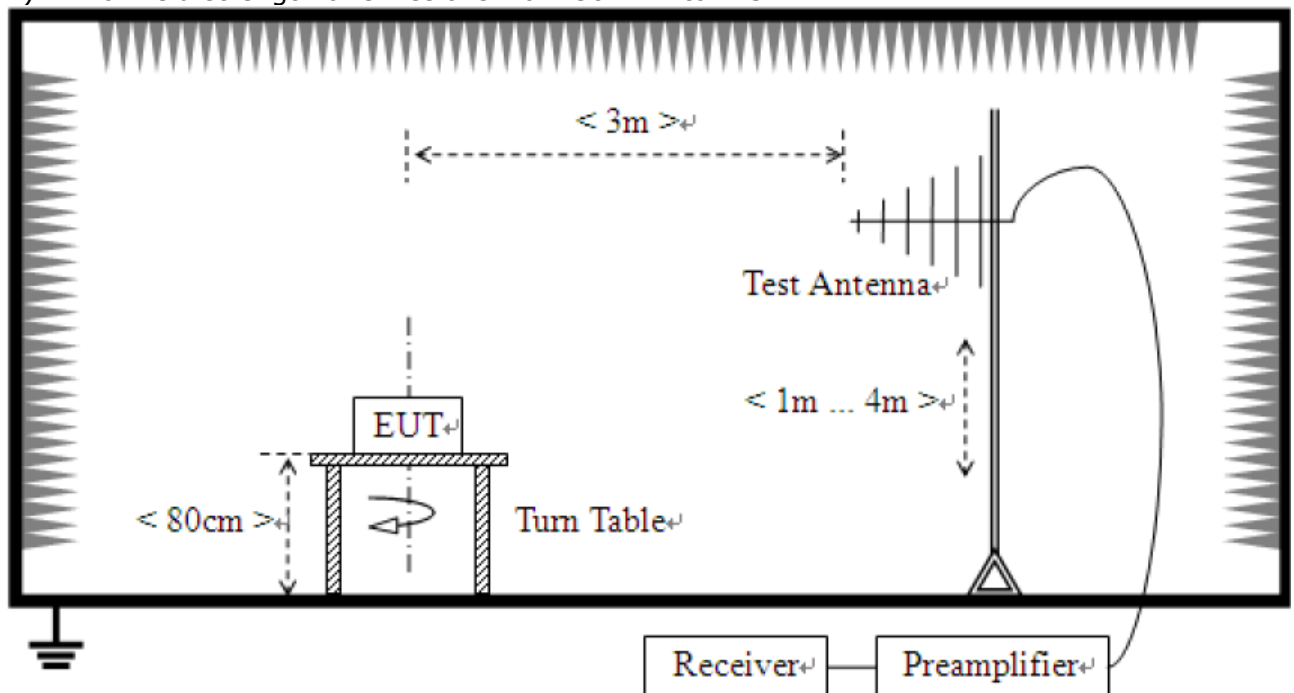
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Test Setup:

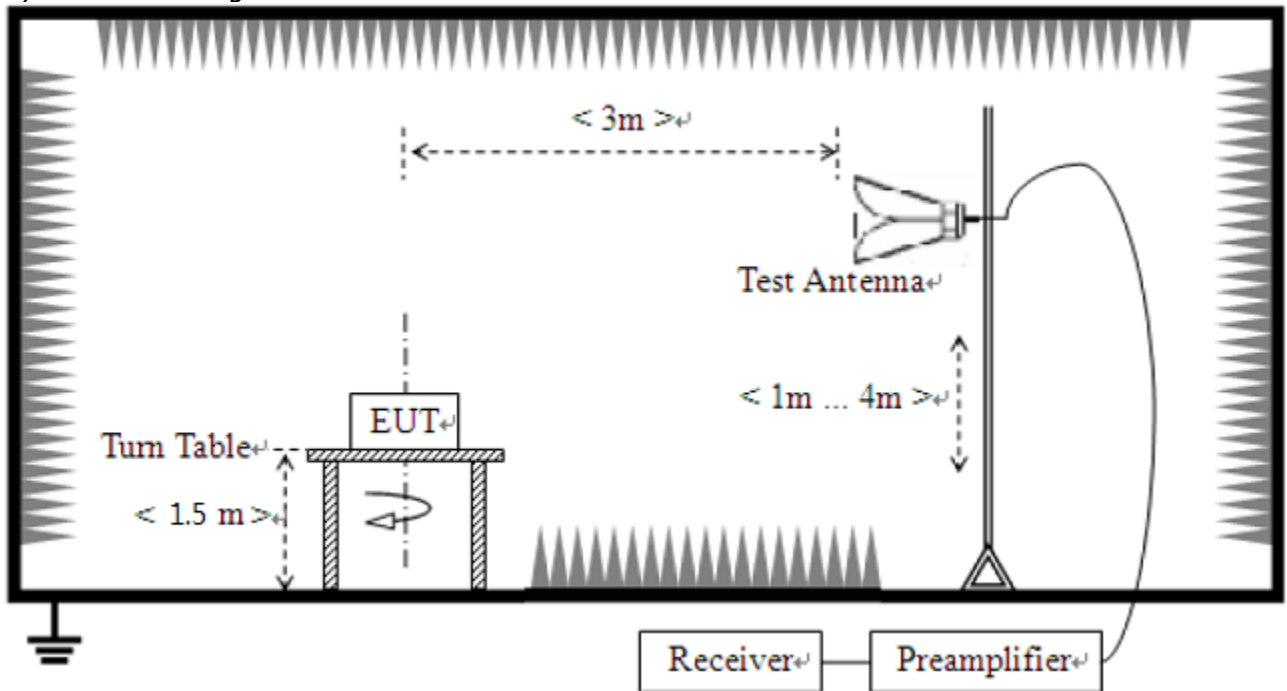
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz





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Report No.:
CTK-2022-02094
Page (20) / (31) Pages

Test Data :

1) Field strength of fundamental

The requirements are:

Complies

Frequency [MHz]	Ant. Pol. (V/H)	Reading [dBuV/m]	C.F [dB/m]	Peak Result [dBuV/m]	Duty cycle c.f[dB]	Average Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
902.6	Hor.	92.7	6.5	99.2	-9.42	89.78	94	4.22
	Ver.	85.9	6.5	92.4	-9.42	82.98	94	11.02
915.0	Hor.	90.7	6.8	97.5	-9.42	88.08	94	5.92
	Ver.	86.9	6.8	93.7	-9.42	84.28	94	9.72
927.4	Hor.	88.1	7.5	95.6	-9.42	86.18	94	7.82
	Ver.	85.4	7.5	92.9	-9.42	83.48	94	10.52

Remark :

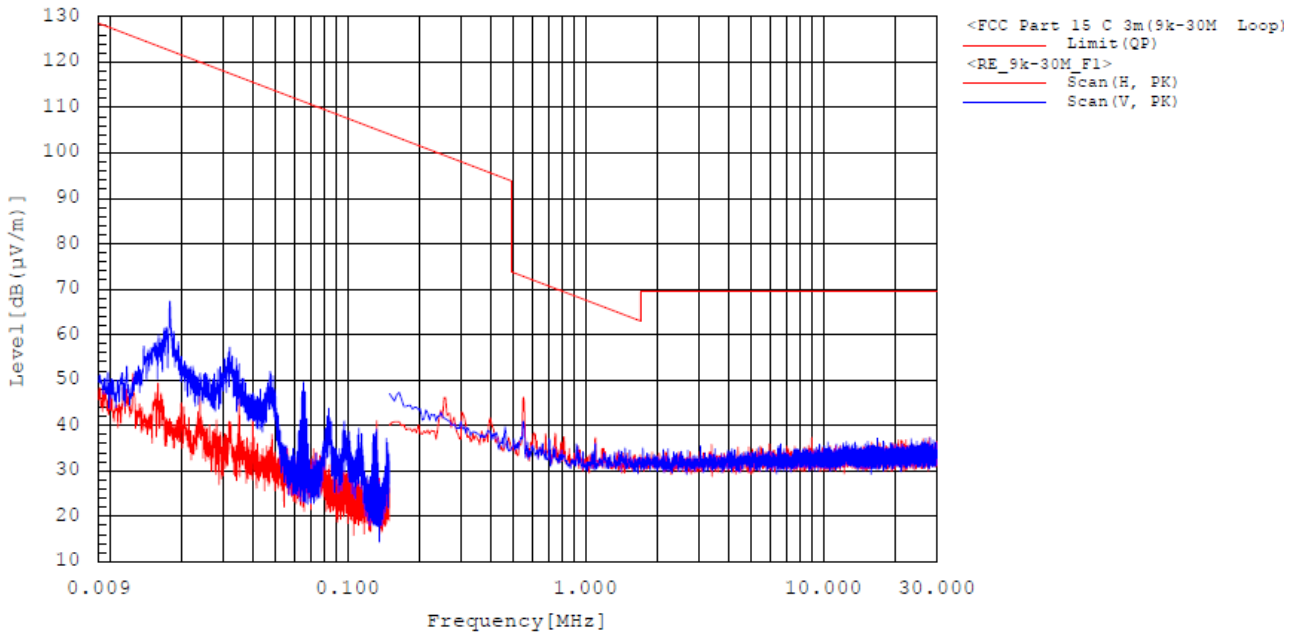
1. Result(Peak) = Reading + c.f(Correction factor)
2. Result(Average) = Result(Peak) + Duty cycle c.f(20log(Duty cycle))
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp. Gain
4. Reading data is the peak value.

2) Field strength of outside of the specified frequency bands – 9 kHz to 30 MHz

The requirements are:

Complies

Test Frequency : Lowest(Worst case)



Result : Emissions more than 20 dB below the limit don't need to be reported.

Remark :

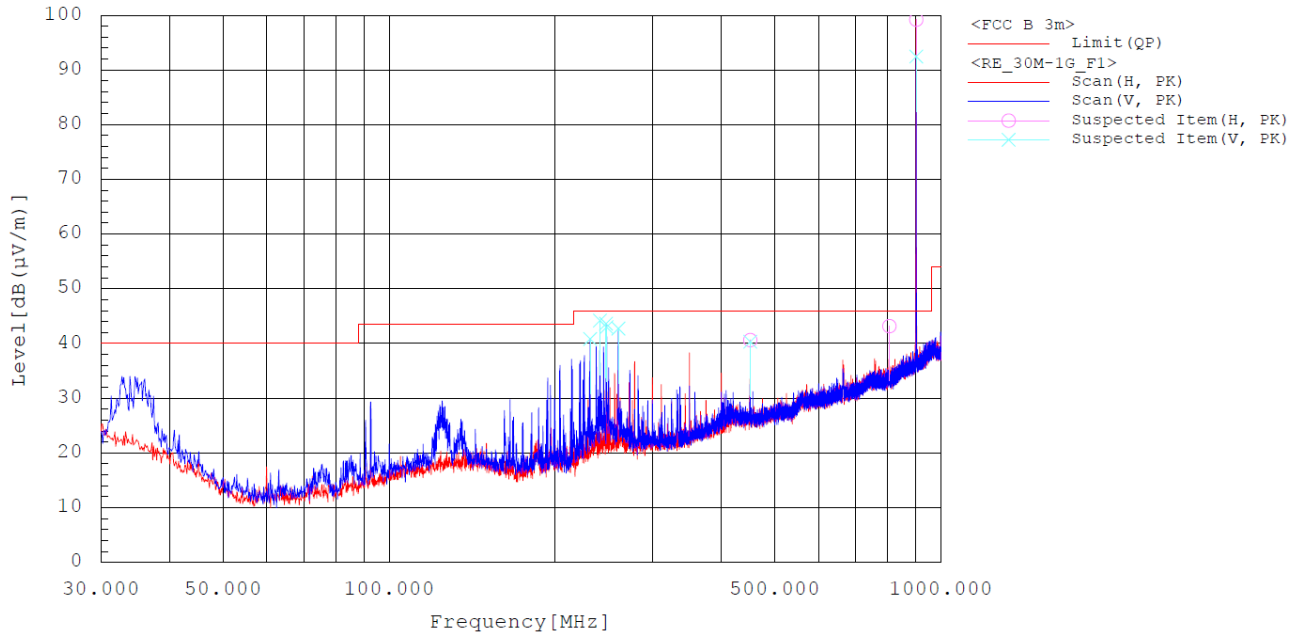
1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)

3) Field strength of outside of the specified frequency bands – 30 MHz to 1 GHz

The requirements are:

Complies

Test Frequency : Lowest

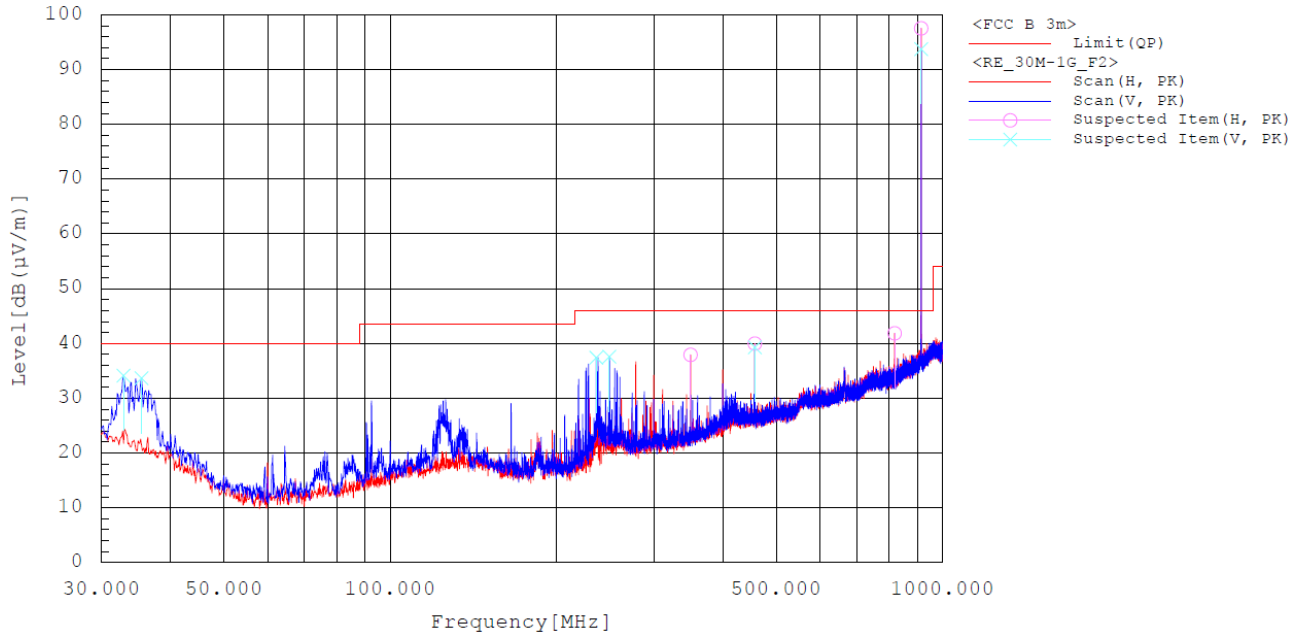


No.	Frequency [MHz]	Antenna Polarization	Reading [dBuV]	c.f [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin[dB]	Remark
1	231.275	Ver.	52.9	-12.1	40.8	46	5.2	
2	240.975	Ver.	54.9	-10.7	44.2	46	1.8	
3	247.159	Ver.	53.4	-9.8	43.6	46	2.4	
4	247.644	Ver.	52.7	-9.7	43.0	46	3.0	
5	260.254	Ver.	50.8	-8.1	42.7	46	3.3	
6	451.101	Hor.	44.0	-3.4	40.6	46	5.4	
7	451.101	Ver.	43.7	-3.4	40.3	46	5.7	
8	806.243	Hor.	39.1	4.1	43.2	46	2.8	
9	902.6	Hor.	92.7	6.5	99.2	-	-	Fundamental
10	902.6	Ver.	85.9	6.5	92.4	-	-	Fundamental

Remark :

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
3. The test result in peak detector is less than quasi-peak limit.

Test Frequency : Middle

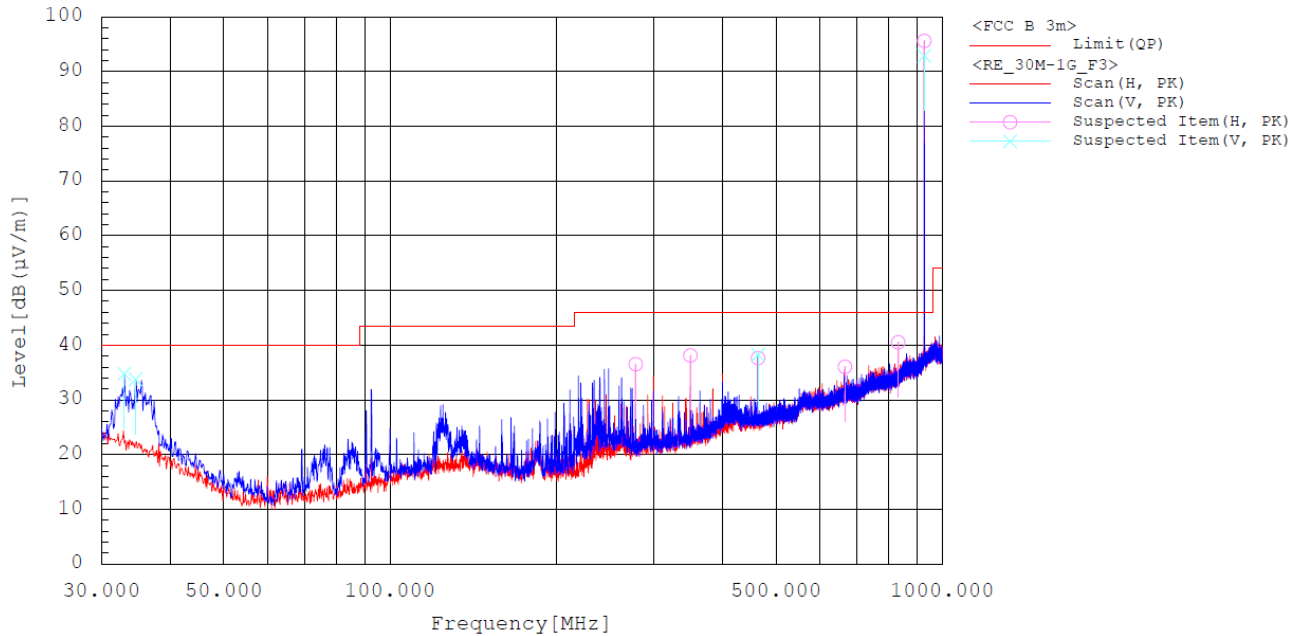


No.	Frequency [MHz]	Antenna Polarization	Reading [dBuV]	c.f [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin[dB]	Remark
1	32.910	Ver.	41.6	-7.5	34.1	40	5.9	
2	35.456	Ver.	42.4	-8.7	33.7	40	6.3	
3	236.246	Ver.	48.9	-11.5	37.4	46	8.6	
4	249.341	Ver.	47.1	-9.5	37.6	46	8.4	
5	349.979	Hor.	45.1	-7.2	37.9	46	8.1	
6	457.528	Hor.	43.4	-3.4	40.0	46	6.0	
7	457.528	Ver.	42.7	-3.4	39.3	46	6.7	
8	819.095	Hor.	37.7	4.2	41.9	46	4.1	
9	915.0	Hor.	90.7	6.8	97.5	-	-	Fundamental
10	915.0	Ver.	86.9	6.8	93.7	-	-	Fundamental

Remark :

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
3. The test result in peak detector is less than quasi-peak limit.

Test Frequency : Highest



No.	Frequency [MHz]	Antenna Polarization	Reading [dBuV]	c.f [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin[dB]	Remark
1	33.031	Ver.	42.3	-7.5	34.8	40	5.2	
2	34.608	Ver.	42.0	-8.2	33.8	40	6.2	
3	278.563	Hor.	45.7	-9.2	36.5	46	9.5	
4	349.979	Hor.	45.3	-7.2	38.1	46	7.9	
5	463.833	Hor.	41.1	-3.5	37.6	46	8.4	
6	463.954	Ver.	41.8	-3.5	38.3	46	7.7	
7	666.563	Hor.	34.6	1.4	36.0	46	10.0	
8	831.826	Hor.	36.1	4.4	40.5	46	5.5	
9	927.4	Hor.	88.1	7.5	95.6	-	-	Fundamental
10	927.4	Ver.	85.4	7.5	92.9	-	-	Fundamental

Remark :

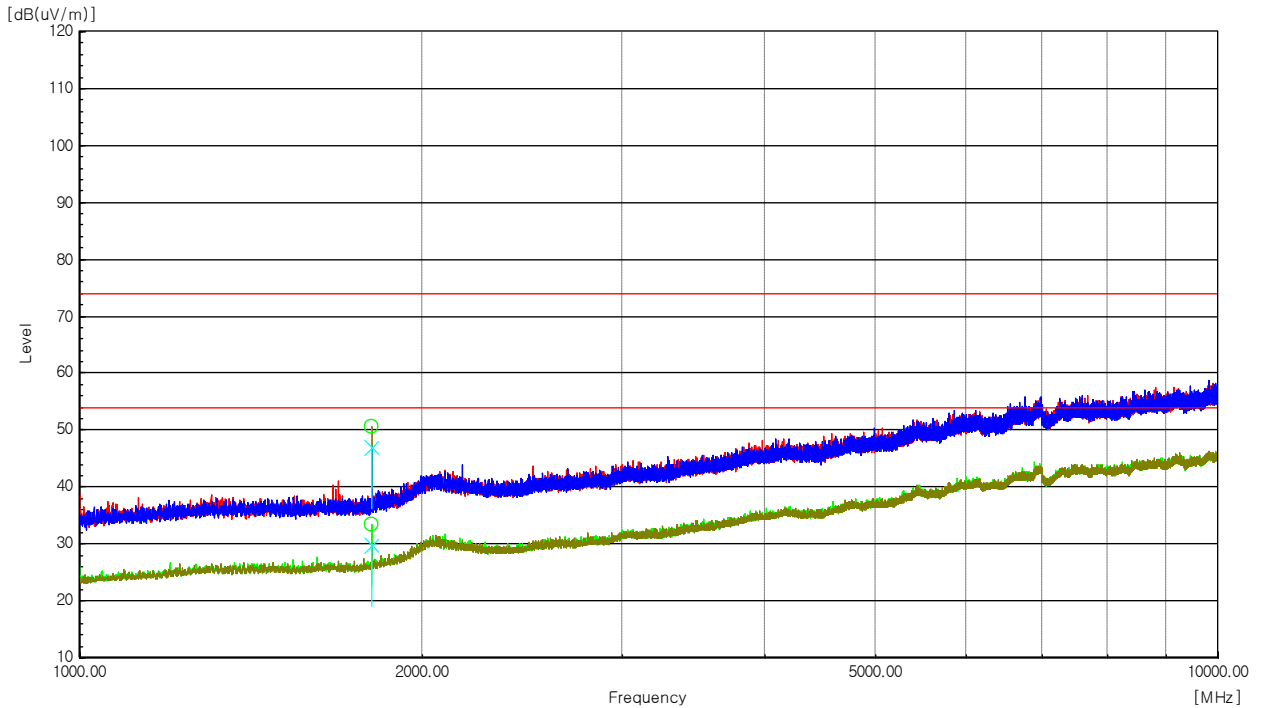
1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
3. The test result in peak detector is less than quasi-peak limit.

4) Field strength of outside of the specified frequency bands – 1 GHz to 10 GHz

The requirements are:

Complies

Test Frequency : Lowest

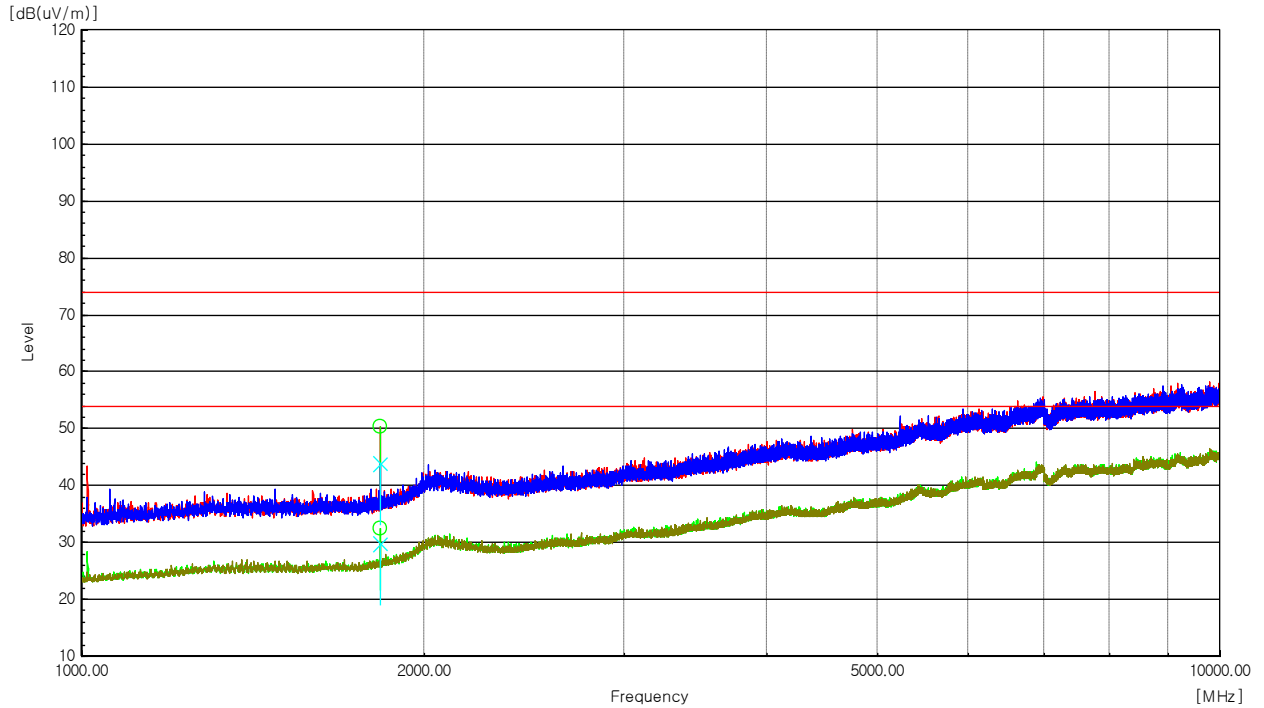


Frequency [MHz]	Ant. Pol. (V/H)	Reading [dBUV/m]	c.f [dB/m]	Result [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Remark
1 804	H	59.4	-8.8	50.6	54	3.4	Harmonic
1 804	V	55.9	-8.8	47.1	54	6.9	Harmonic

Remarks

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss - Amp Gain
3. The test result in peak detector is less than average limit.

Test Frequency : Middle

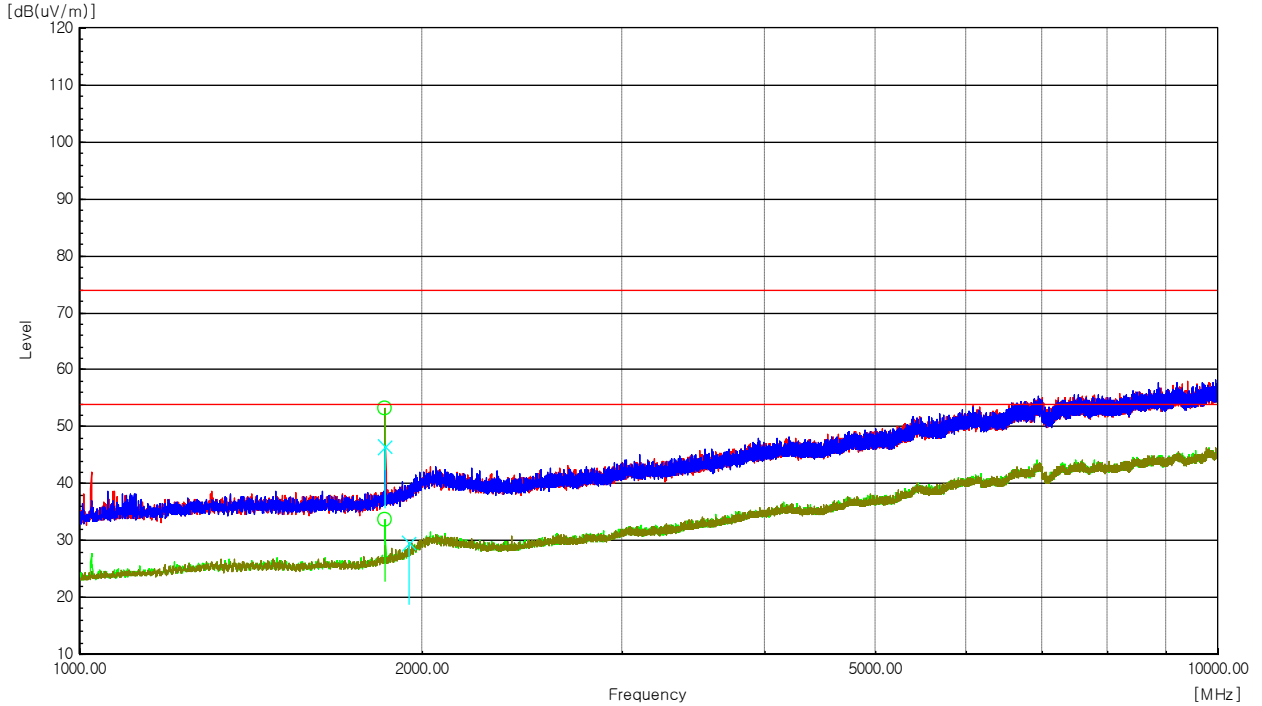


Frequency [MHz]	Ant. Pol. (V/H)	Reading [dBuV/m]	c.f [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1 830	H	59.7	-8.5	50.2	54	3.8	Harmonic
1 830	V	52.5	-8.5	44.0	54	10.0	Harmonic

Remarks

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss - Amp Gain
3. The test result in peak detector is less than average limit.

Test Frequency : Highest



Frequency [MHz]	Ant. Pol. (V/H)	Reading [dBuV/m]	c.f [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1 855	H	61.5	-8.3	53.2	54	0.8	Harmonic
1 855	V	54.9	-8.3	46.6	54	7.4	Harmonic

Remarks

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss - Amp Gain
3. The test result in peak detector is less than average limit.

4.4 AC Power line Conducted Emissions

Requirement

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

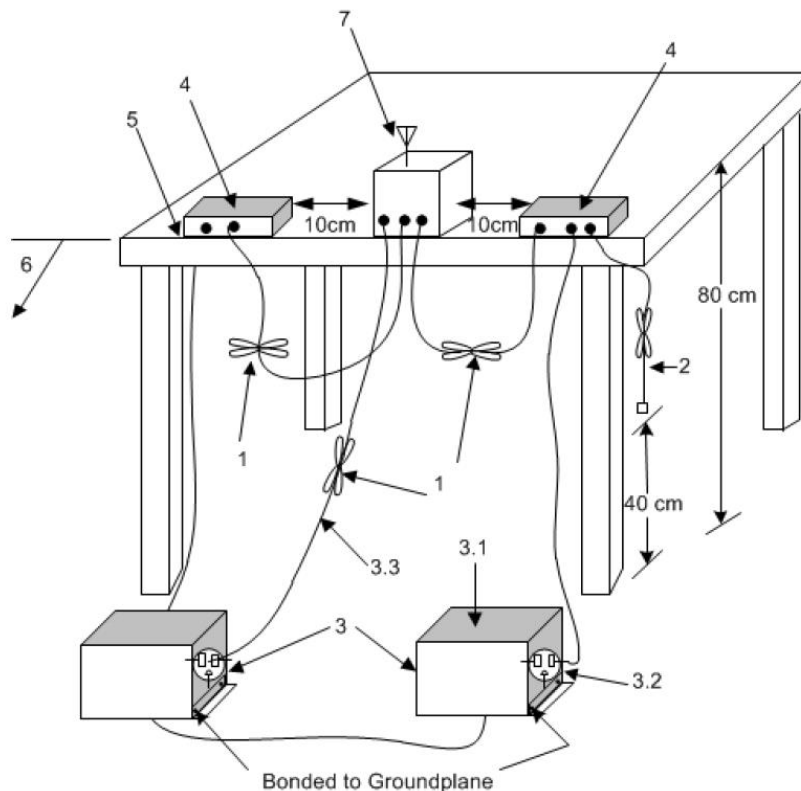
Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency.

Test Procedures

Refer as ANSI C63.10-2013, clause 6.2(Standard test method for ac power-line conducted emissions from unlicensed wireless devices).

Test Setup



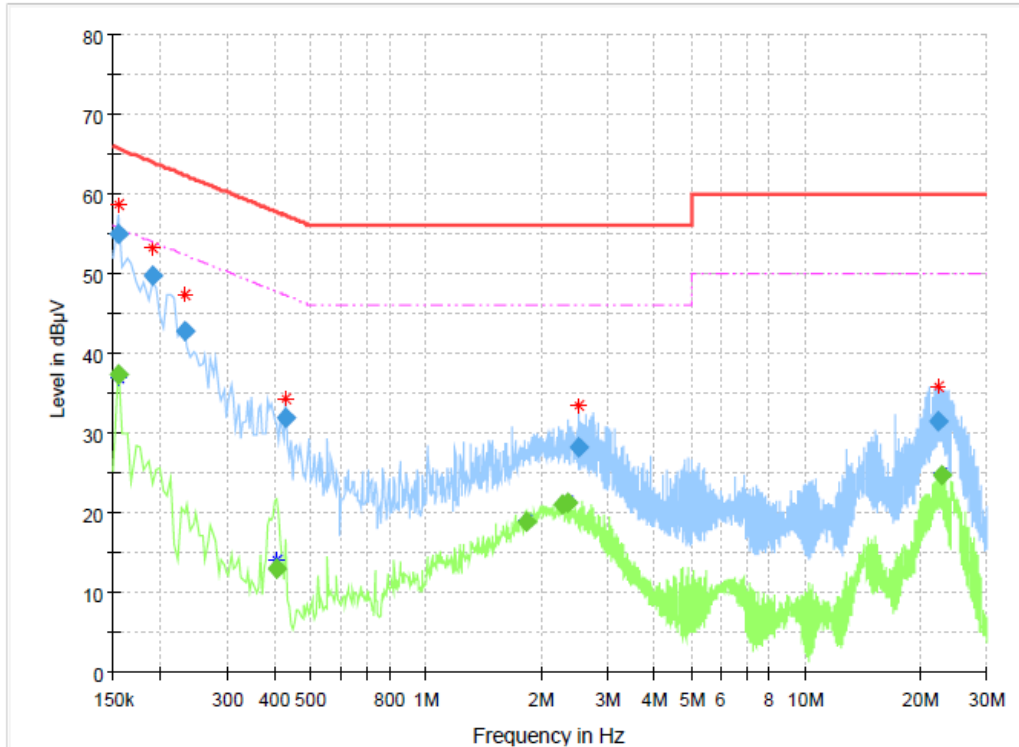
Test Results

The requirements are:

Complies

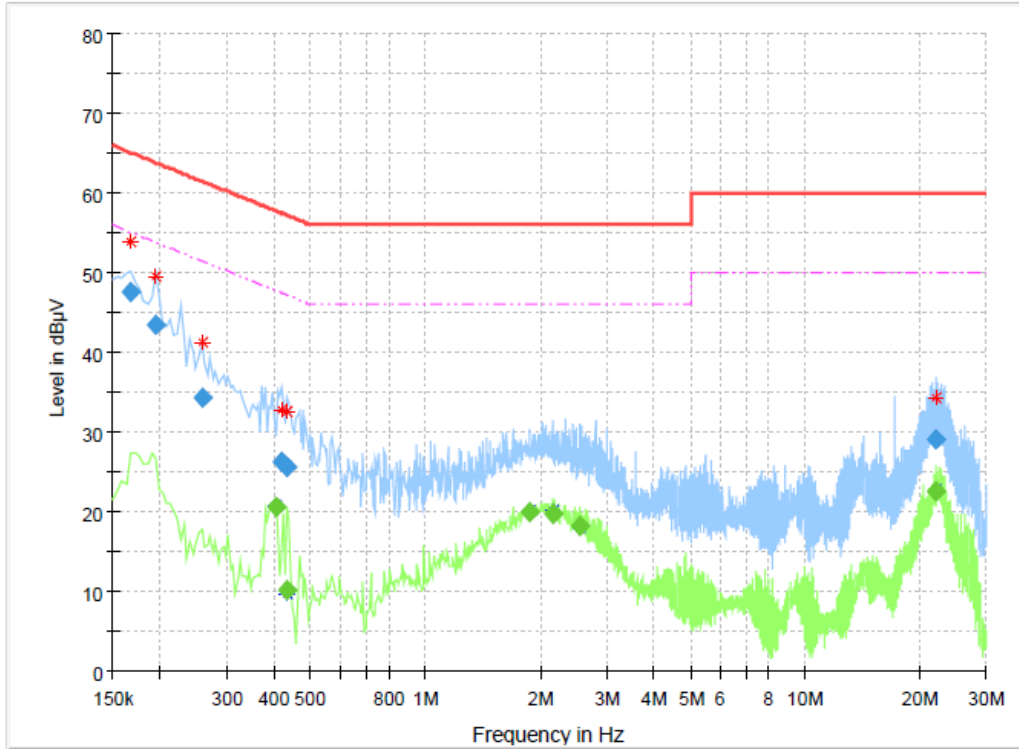
Test Frequency : Lowest (Worst case)

[LINE]



Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	---	37.34	55.75	18.42	1000.0	9.000	L1	9.9
0.154500	55.00	---	65.75	10.75	1000.0	9.000	L1	9.9
0.190500	49.72	---	64.02	14.29	1000.0	9.000	L1	10.0
0.231000	42.77	---	62.41	19.64	1000.0	9.000	L1	9.8
0.406500	---	12.98	47.72	34.74	1000.0	9.000	L1	10.0
0.429000	32.05	---	57.27	25.22	1000.0	9.000	L1	10.0
1.833000	---	18.89	46.00	27.11	1000.0	9.000	L1	9.7
2.296500	---	21.05	46.00	24.95	1000.0	9.000	L1	9.7
2.359500	---	21.37	46.00	24.63	1000.0	9.000	L1	9.7
2.521500	28.30	---	56.00	27.70	1000.0	9.000	L1	9.8
22.335000	31.54	---	60.00	28.46	1000.0	9.000	L1	10.0
22.951500	---	24.88	50.00	25.12	1000.0	9.000	L1	10.0

[NEUTRAL]



Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.168000	47.67	---	65.06	17.38	1000.0	9.000	N	10.3
0.195000	43.47	---	63.82	20.35	1000.0	9.000	N	10.2
0.258000	34.34	---	61.50	27.16	1000.0	9.000	N	9.9
0.406500	---	20.74	47.72	26.98	1000.0	9.000	N	10.2
0.420000	26.31	---	57.45	31.14	1000.0	9.000	N	10.2
0.433500	---	10.25	47.19	36.94	1000.0	9.000	N	10.2
0.433500	25.73	---	57.19	31.46	1000.0	9.000	N	10.2
1.882500	---	20.03	46.00	25.97	1000.0	9.000	N	10.0
2.157000	---	19.87	46.00	26.13	1000.0	9.000	N	9.9
2.557500	---	18.25	46.00	27.75	1000.0	9.000	N	10.0
22.114500	29.06	---	60.00	30.94	1000.0	9.000	N	10.0
22.191000	---	22.59	50.00	27.41	1000.0	9.000	N	10.0



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Report No.:
 CTK-2022-02094
 Page (31) / (31) Pages

APPENDIX A – Test Equipment Used For Tests

No.	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESW44	101922	2021-06-14	2023-06-14
2	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2022-04-15	2024-04-15
3	Bilog Antenna	TESEQ	CBL6111D	60654	2021-09-03	2023-09-03
4	AMPLIFIER	SONOMA	310N	411011	2021-08-25	2022-08-25
5	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2021-08-25	2022-08-25
6	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2022-04-14	2023-04-14
7	PRE AMPLIFIER	HP	8449B	3008A00620	2022-05-10	2023-05-10
8	Signal Analyzer	R&S	FSV30	100925	2022-01-07	2023-01-07
9	Spectrum Analyzer	R&S	FSV40	100401	2022-01-05	2023-01-05
10	EMI Test Receiver	R&S	ESR3	102826	2022-05-04	2023-05-04
11	LISN	R&S	ENV216	102698	2022-05-13	2023-05-13

Cable

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (below 1 GHz/Radiation)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2022-04-12
2	RF Cable (below 1 GHz/Radiation)	CANARE	L-5D2W	N/A	2022-04-12
3	RF Cable (above 1GHz/Radiation)	Junkosha Inc.	MWX221	2008S246	2022-04-14
4	RF Cable (above 1GHz/Radiation)	Rosenberger	NONE	1520.9927.00	2022-04-14
5	RF Cable (above 1GHz/Radiation)	Sensorview	13A26	TPC2204060007	2022-04-14
6	Cable (Conduction)	JUNFLON	J12J102248-00-5	SEP-10-14-093	2022-07-20
7	Cable (AC conducted emission)	CANARE	L-5D2W	N/A	2022-04-12

-END-