

TEST REPORT



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Report No.:
CTK-2024-02636
Page (1) / (22) Pages

1. Applicant

- Name : UNION COMMUNITY
- Address : 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu
- Date of Receipt : 2024-07-25

2. Manufacturer

- Name : UNION COMMUNITY
- Address : 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu

3. Use of Report : For FCC Certification

4. Test Sample / Model : UBio-N Face Mini / UBio-N Face Mini

5. Date of Test : 2024-09-05 to 2024-09-19

6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.225



7. Testing Environment : refer to 6 page

8. Test Results : Compliance

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

(Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

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) 

2024-09-24

CTK Co., Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2024-09-24	Issued (CTK-2024-02636)	All

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1. General Product Description

1.1 Applicant Information

Company	UNION COMMUNITY
Contact Point	12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu
Contact Person	Name : CHO, MIN-GU E-mail : mgcho@unioncomm.co.kr Tel : +82-02-6488-3261

1.2 Product Information

FCC ID	XX2-UBIONFACEMINI
Product Description	UBio-N Face Mini
Basic model (HVIN)	UBio-N Face Mini
Variant Model name	-
Operating Frequency Range	13.56 MHz
RF Output Power	62.9 dBuV/m @ 3 m
Antenna Type	PCB antenna(Loop Antenna)
Power Source	DC 24 V, PoE

1.3 Antenna Information

<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
<input type="checkbox"/>	Temporary RF connector provided
<input checked="" 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 type="checkbox"/>	External antenna (dedicated antennas)

2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 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.

3. Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Status (Note 1)	Report Clause
15.203	Antenna Requirement	C	1.3
15.215(c)	Emission Bandwidth	C	4.1
15.225 (a)(b)(c)(d)	Field strength emissions	C	4.2
15.225(e)	Frequency tolerance	C	4.3
15.207	AC Power line Conducted Emissions	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: ANSI C63.10-2013.			

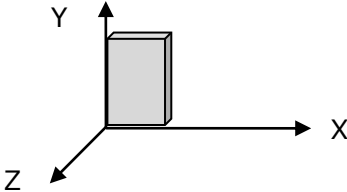
3.2 Testing Environment

Test Item		Test Date	Temperature (℃)	Relative Humidity (%)
Bandwidth		2024-09-05	25	57
Transmitter emission (Radiated)	1) 9 kHz to 30 MHz	2024-09-09	22	55
	2) 30 MHz to 1 GHz	2024-09-19	21	60
Frequency tolerance		2024-09-05	25	57
AC Conducted Emission		2024-09-05	24	50

3.3 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 Worst Case Measurement Configuration

Tests Item	Transmitter Radiated Emissions, Emission Bandwidth
Condition	Radiated measurement
User Position	<input checked="" 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.
Operating Mode	DC 24 V mode(Power supply)
EUT faces identified relative to view from receiving antenna	

3.4 Peripheral Devices

No.	Device	Manufacturer	Model No.	Serial No.
1	DC Power Supply	Topward Electric Instruments	6303D	711196

3.5 Maximum Measurement Uncertainty

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

Test Item	Uncertainty
Radiated emissions	3.82 dB(C.L. : Approx. 95%, $k = 2$)
Frequency tolerance	10 Hz(C.L. : Approx. 95%, $k = 2$)

3.5 Test Software

Radiated Test	EP5RE Ver. 6.0.10, ES10 Ver. 2022.04.000
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4. Technical Characteristic Test

4.1 Emission Bandwidth

Requirement

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

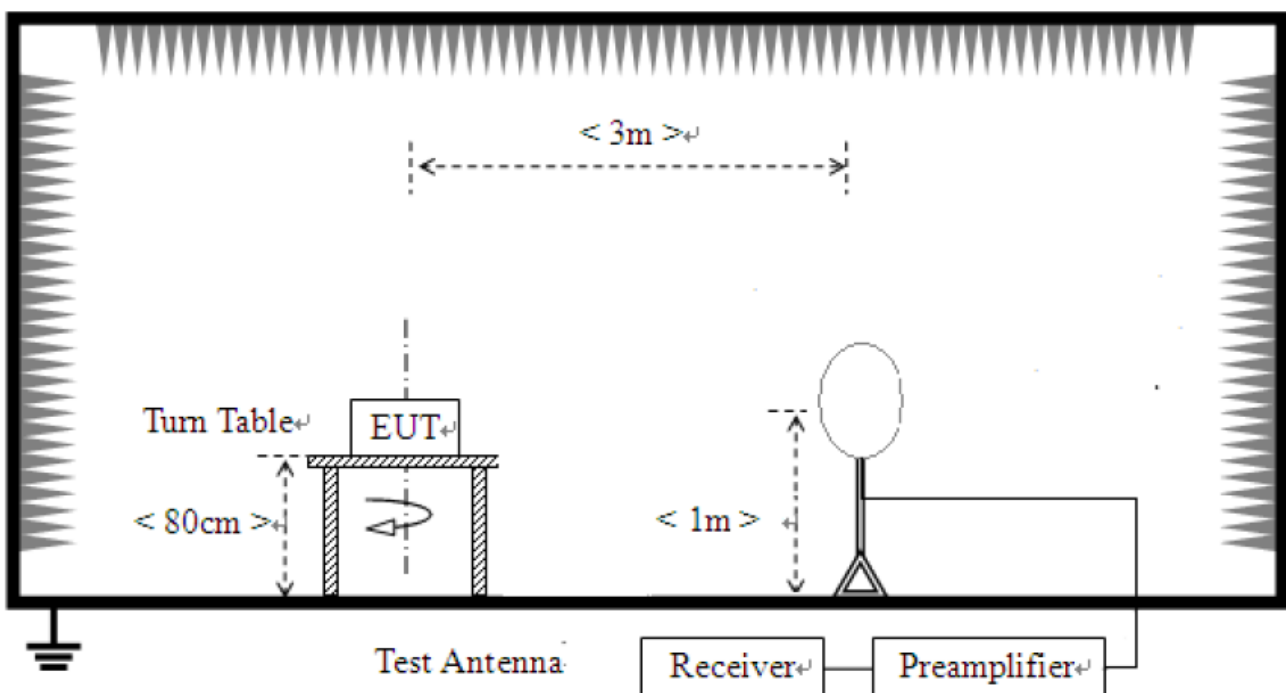
The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported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

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedures

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

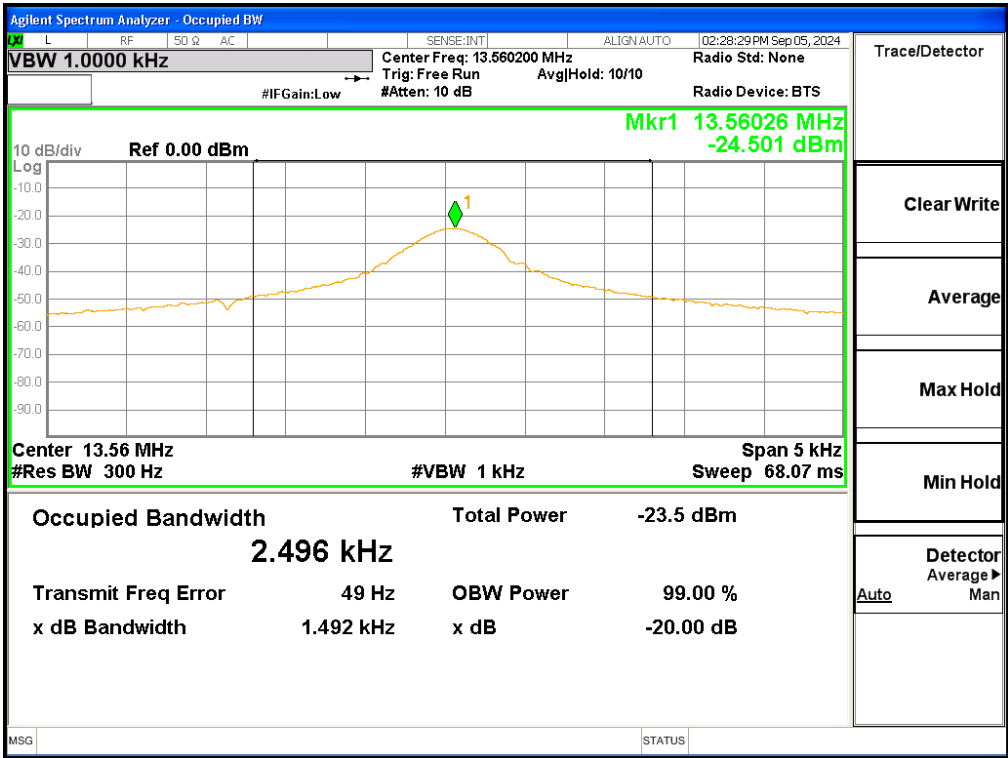
Test Setup



Test results

Emission Bandwidth	Result	Limit
20dB Bandwidth	1.492 kHz	N/A
99% Bandwidth	2.496 kHz	N/A

Emission Bandwidth Plot 20 dB & 99 % Bandwidth



4.2 Field strength emissions

Requirement

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.553-13.567	15,848	84.0	124.0

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.410-13.553	334	50.5	90.5
13.567-13.710	334	50.5	90.5

- © Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.110-13.410	106	40.5	80.5
13.710-14.010	106	40.5	80.5

- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209(RSS-GEN).

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 dBuV/m	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	48.5 – 13.8	300
0.490-1.705	24000/F(kHz)	33.8 – 23	30
1.705-30	30	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 : The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Location

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)

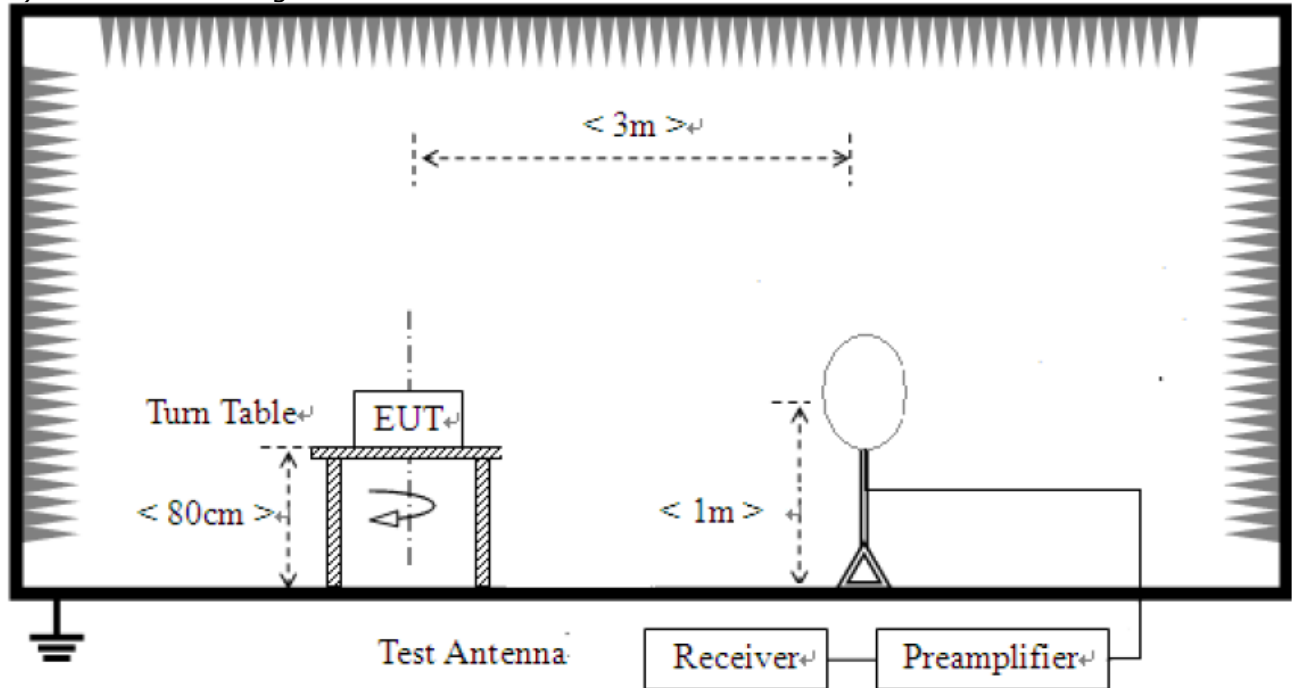
Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10-2013, clause 6.4(Radiated emissions from unlicensed wireless devices below 30 MHz).
<input checked="" type="checkbox"/>	<p>Radiated emission tests shall be performed in the frequency range of 9 kHz to 30 MHz, using a calibrated loop antenna.</p> <p>When perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT.</p> <p>During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.</p>
<input checked="" type="checkbox"/>	The results shall be by using the square of an inverse linear distance extrapolation factor(40 dB/decade).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10-2013, clause 6.5(Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz).
<input checked="" type="checkbox"/>	In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) is used. 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.
<input checked="" type="checkbox"/>	Emissions more than 20 dB below the limit do not need to be reported.

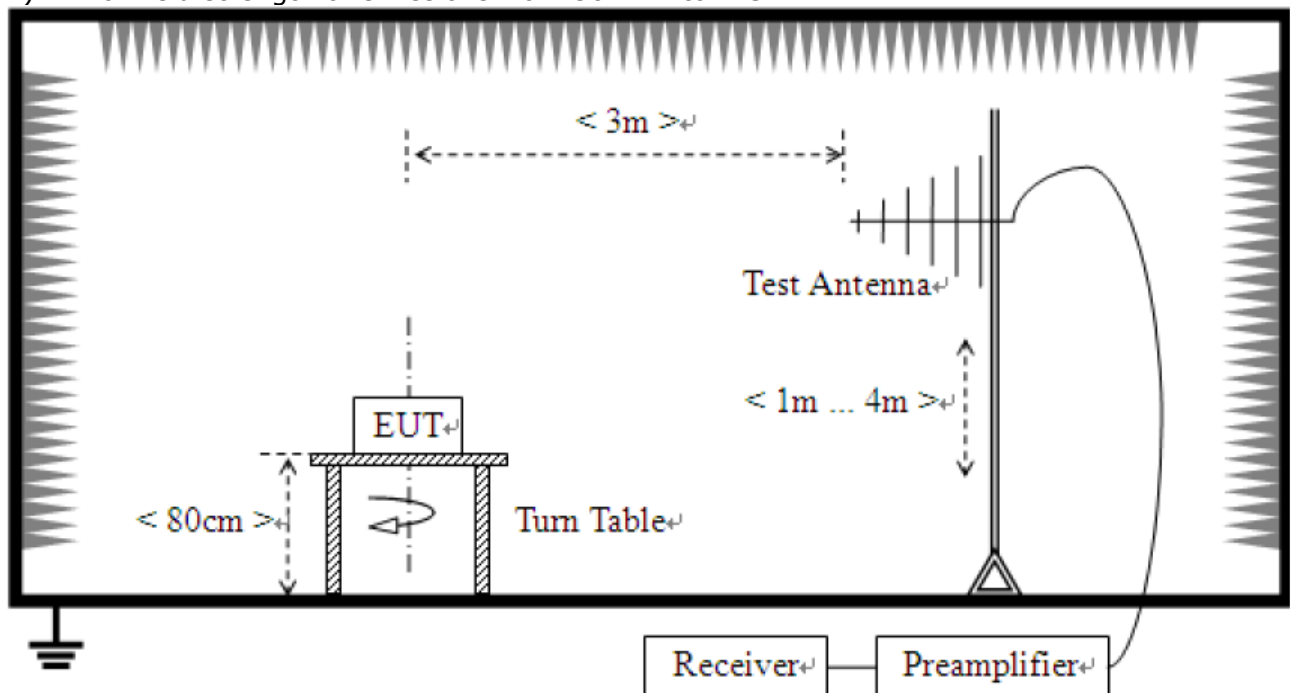
Measuring instrument Settings	
Frequency Range	9 kHz – 1 000 MHz
RBW	200 Hz (9 kHz – 150 kHz) 9 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1 000 MHz)
VBW	≥ RBW
Sweep time	auto couple
Detector function	CISPR quasi-peak(below 1 000 MHz)

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

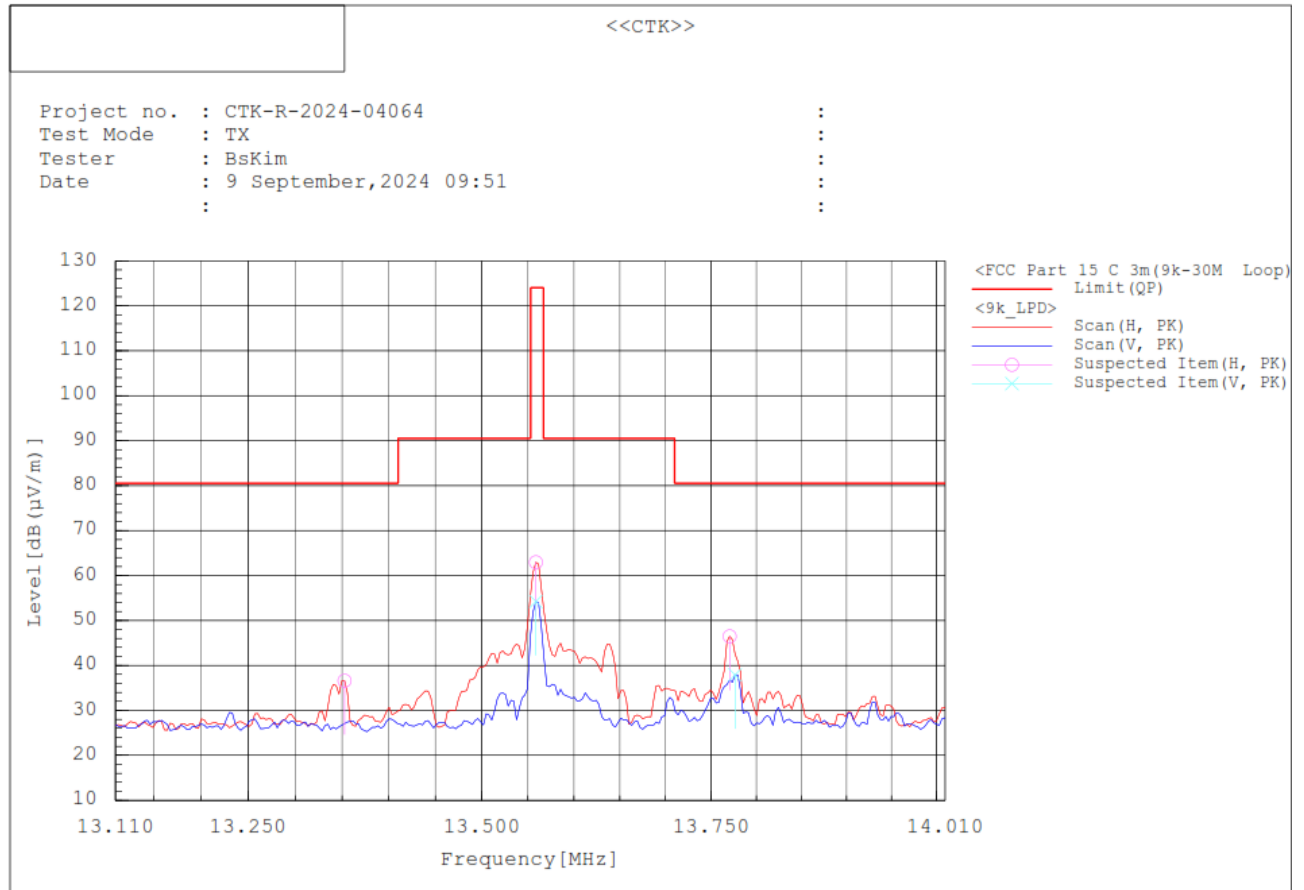


Test results

1) Radiated emissions within the band 13.110-14.010 MHz

The requirements are:

☒ Complies



Spectrum Selection

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]	Remark
1	13.353	H	10.5	26.1	36.6	80.5	43.9	100.0	358.7	
2	13.559	H	36.8	26.1	62.9	124.0	61.1	100.0	153.3	
3	13.559	V	28.1	26.1	54.2	124.0	69.8	100.0	75.2	
4	13.771	H	20.4	26.1	46.5	80.5	34.0	100.0	235.0	
5	13.777	V	11.8	26.1	37.9	80.5	42.6	100.0	99.6	

Remark :

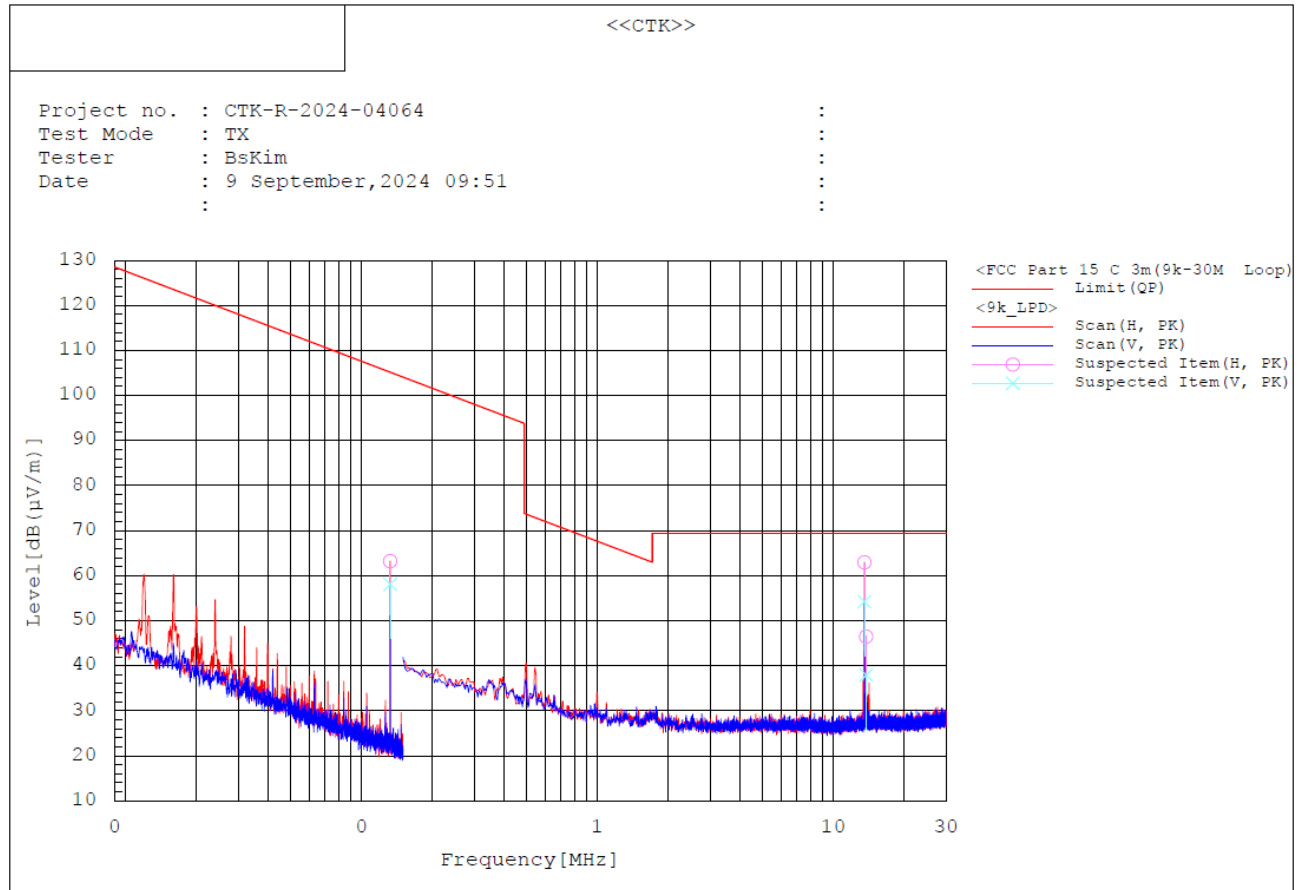
1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. The test result in peak detector is less than quasi-peak limit.

2) Field strength of any emissions appearing outside of the 13.110-14.010 MHz

Frequency range : 9 kHz – 13.110 MHz

The requirements are:

☒ Complies



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		PK		PK	QP	QP-PK			
			[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]	
1	0.132	H	38.4	24.8	63.2	105.2	42.0	100.0	359.3	
2	0.132	V	33.3	24.8	58.1	105.2	47.1	100.0	89.2	
3	13.559	H	36.8	26.1	62.9	69.5	6.6	100.0	153.3	
4	13.559	V	28.1	26.1	54.2	69.5	15.3	100.0	75.2	

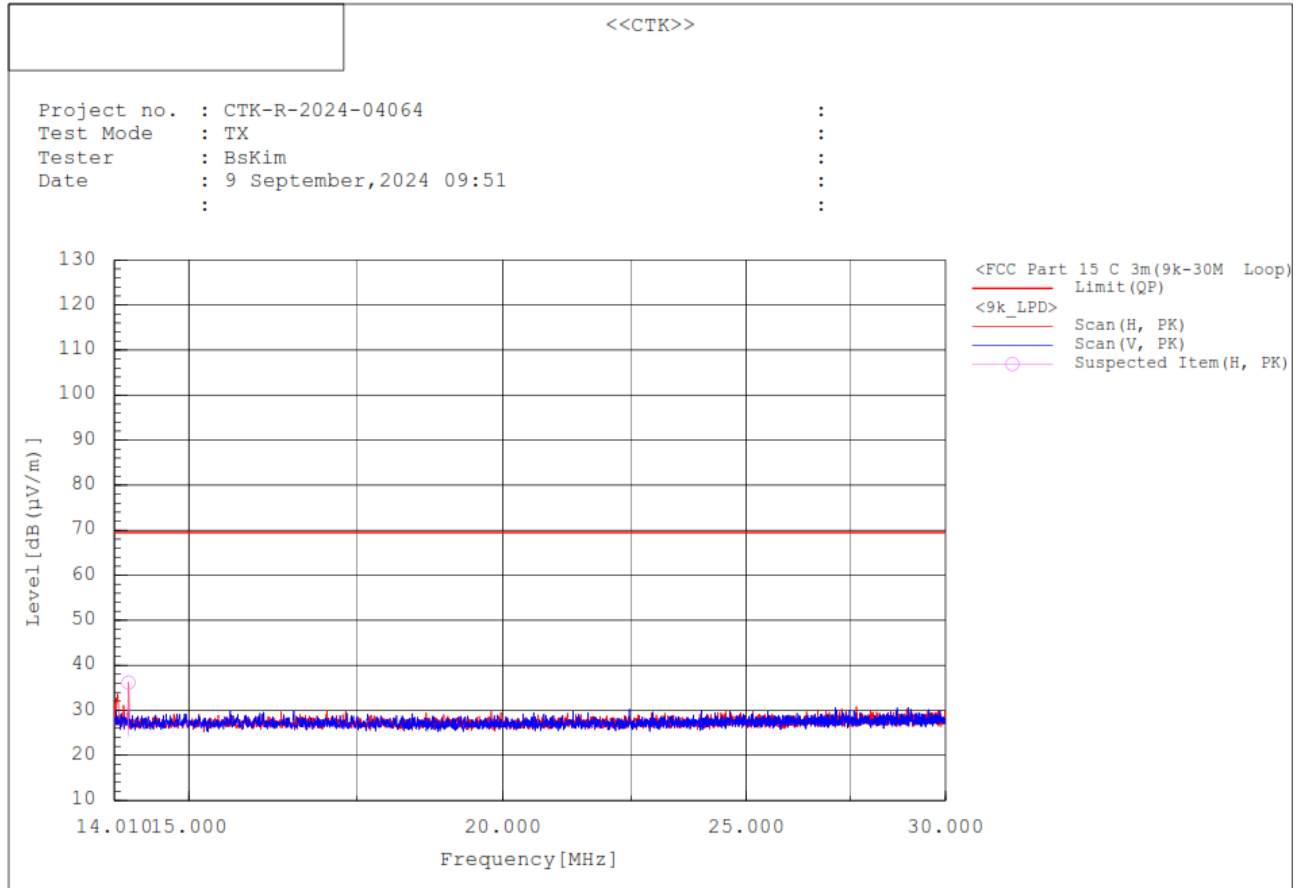
Remark :

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. Emissions more than 20 dB below the limit do not need to be reported.
4. For the transmitter, frequencies of 13.56 MHz and 125 kHz were used. Tested while two signals were being transmitted.

Frequency range : 14.010 MHz – 30 MHz

The requirements are:

☒ Complies



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		PK [dB(μV)]	[dB(1/m)]	PK [dB(μV/m)]	QP [dB(μV/m)]	QP-PK [dB]	[cm]	[deg]	
1	14.194	H	10.0	26.2	36.2	69.5	33.3	100.0	319.5	

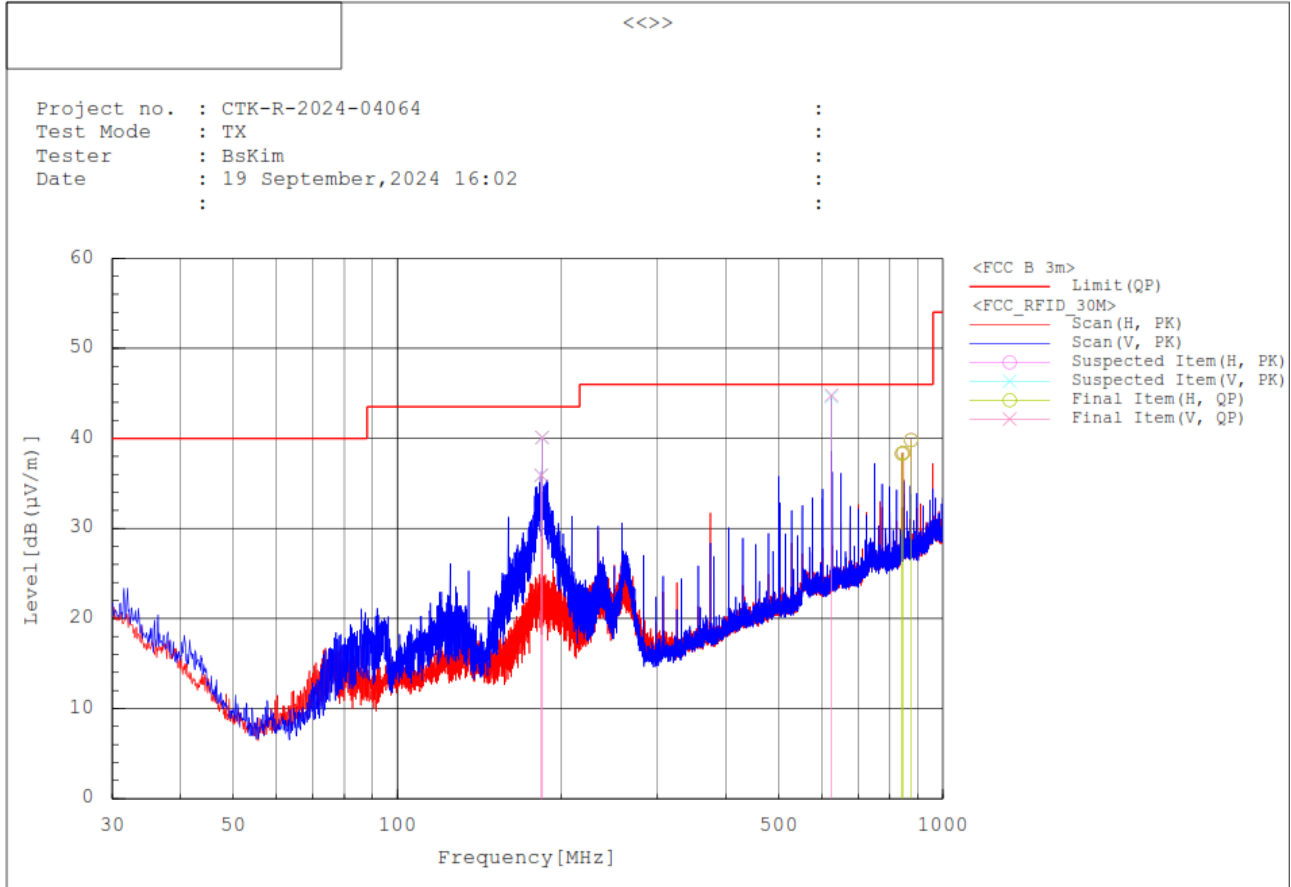
Remark :

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. Emissions more than 20 dB below the limit do not need to be reported.
4. The test result in peak detector is less than quasi-peak limit.

3) Radiated emissions in the range of 30 MHz to 1 000 MHz band

The requirements are:

☒ Complies



Final Result

No.	Frequency [MHz]	Pol	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 [deg]
1	183.551	V	51.1	-15.2	35.9	43.5	7.6	100.0	1.2
2	184.327	V	55.3	-15.2	40.1	43.5	3.4	100.0	146.6
3	625.095	V	46.9	-2.1	44.8	46.0	1.2	100.0	1.2
4	841.793	H	36.1	2.2	38.3	46.0	7.7	300.0	359.2
5	846.837	H	35.8	2.6	38.4	46.0	7.6	300.0	247.1
6	875.064	H	36.9	2.9	39.8	46.0	6.2	99.9	214.4

Remark :

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator – Amp Gain
3. For the transmitter, frequencies of 13.56 MHz and 125 kHz were used. Tested while two signals were being transmitted.
4. The test result in peak detector is less than quasi-peak limit.

4.3 Frequency Stability

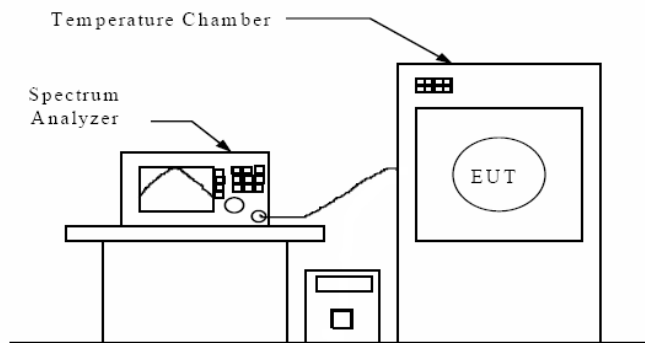
Requirement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 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.

Test Procedures

For the emission bandwidth refer ANSI C63.10-2013, clause 6.8(Frequency stability tests).

Test Setup



Test Results

The requirements are:
☒ Complies

Condition	Measurement Frequency (MHz)				Frequency Stability (ppm)			
	Startup	2 min	5 min	10 min	Start-up	2 min	5 min	10 min
Temp. 50℃	13.560250	13.560255	13.560285	13.560280	18	19	21	21
Temp. 40℃	13.560260	13.560255	13.560255	13.560245	19	19	19	18
Temp. 30℃	13.560245	13.560270	13.560220	13.560250	18	20	16	18
Temp. 20℃	13.560329	13.560299	13.560324	13.560344	24	22	24	25
Temp. 10℃	13.560324	13.560334	13.560279	13.560359	24	25	21	26
Temp. 0℃	13.560374	13.560374	13.560419	13.560319	28	28	31	24
Temp. -10℃	13.560354	13.560324	13.560369	13.560394	26	24	27	29
Temp. -20℃	13.560344	13.560374	13.560429	13.560434	25	28	32	32
Voltage 85%	13.560384	13.560384	13.560254	13.560369	28	28	19	27
Voltage 115%	13.560229	13.560329	13.560264	13.560319	17	24	19	24
Limit(ppm)	-				100			

4.4 AC Conducted Emissions

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2.2

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

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

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

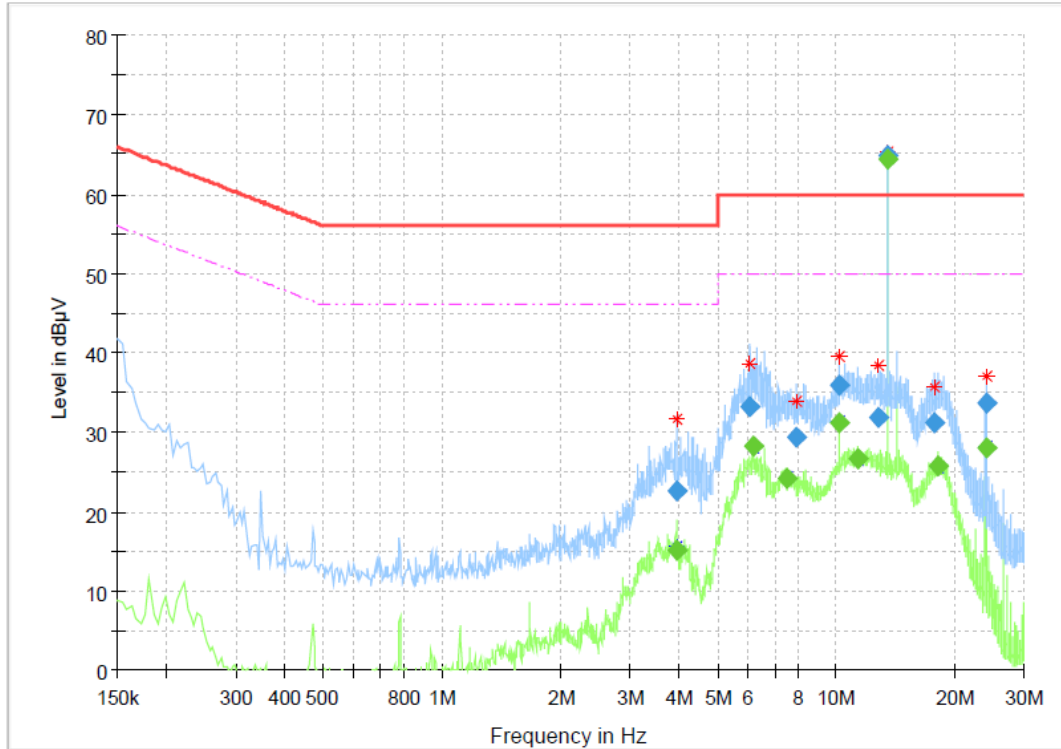
Test Results

The requirements are:

☒ Complies

Test Data

[LINE, NEUTRAL]

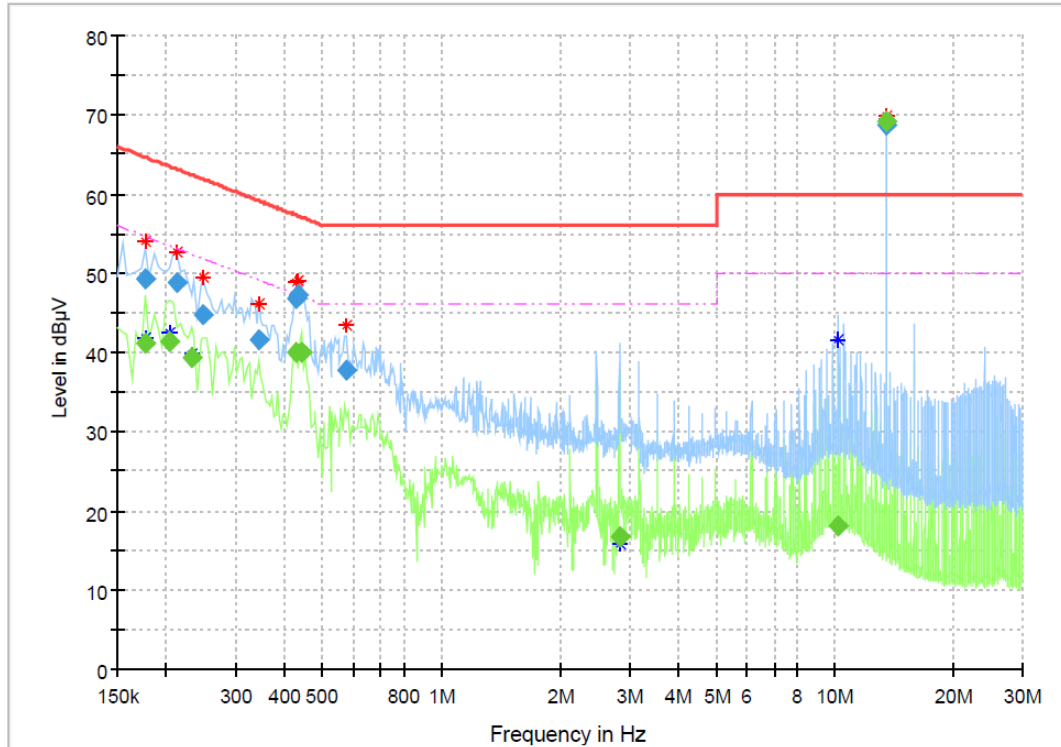


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
3.934500	---	15.25	46.00	30.75	15000.0	9.000	N	ON	9.7
3.939000	22.68	---	56.00	33.32	15000.0	9.000	L1	ON	9.6
6.072000	33.12	---	60.00	26.88	15000.0	9.000	N	ON	10.0
6.144000	---	28.20	50.00	21.80	15000.0	9.000	N	ON	10.0
7.530000	---	24.25	50.00	25.75	15000.0	9.000	N	ON	9.9
7.953000	29.49	---	60.00	30.51	15000.0	9.000	N	ON	9.9
10.239000	---	31.21	50.00	18.79	15000.0	9.000	L1	ON	9.8
10.239000	35.91	---	60.00	24.09	15000.0	9.000	L1	ON	9.8
11.328000	---	26.74	50.00	23.26	15000.0	9.000	N	ON	9.9
12.835500	31.94	---	60.00	28.06	15000.0	9.000	N	ON	9.9
13.560000	64.84	---	60.00	-4.84	15000.0	9.000	N	ON	9.9
13.560000	---	64.33	50.00	-14.34	15000.0	9.000	N	ON	9.9
17.772000	31.26	---	60.00	28.74	15000.0	9.000	N	ON	10.0
18.199500	---	25.83	50.00	24.17	15000.0	9.000	N	ON	10.0
24.000000	---	27.92	50.00	22.08	15000.0	9.000	N	ON	10.0
24.000000	33.68	---	60.00	26.32	15000.0	9.000	N	ON	10.0

* The frequency 13.56 MHz is the Fundamental signal.

[PoE, LINE & NEUTRAL]



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.177000	---	41.09	54.63	13.54	15000.0	9.000	L1	ON	10.0
0.177000	49.31	---	64.63	15.32	15000.0	9.000	L1	ON	10.0
0.204000	---	41.31	53.45	12.13	15000.0	9.000	L1	ON	9.9
0.213000	48.71	---	63.09	14.38	15000.0	9.000	L1	ON	9.9
0.231000	---	39.43	52.41	12.99	15000.0	9.000	L1	ON	9.8
0.249000	44.71	---	61.79	17.08	15000.0	9.000	L1	ON	9.7
0.343500	41.56	---	59.12	17.55	15000.0	9.000	L1	ON	9.9
0.429000	---	39.95	47.27	7.32	15000.0	9.000	L1	ON	9.9
0.429000	46.72	---	57.27	10.55	15000.0	9.000	L1	ON	9.9
0.433500	47.31	---	57.19	9.88	15000.0	9.000	L1	ON	9.9
0.442500	---	40.11	47.02	6.90	15000.0	9.000	N	ON	10.0
0.573000	37.75	---	56.00	18.25	15000.0	9.000	L1	ON	9.9
2.836500	---	16.71	46.00	29.29	15000.0	9.000	L1	ON	9.6
10.239000	---	18.17	50.00	31.83	15000.0	9.000	N	ON	9.9
13.560000	---	69.18	50.00	-19.18	15000.0	9.000	N	ON	9.9
13.560000	68.65	---	60.00	-8.65	15000.0	9.000	N	ON	9.9

* The frequency 13.56 MHz is the Fundamental signal.

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Analyzer	Agilent	N9020A	MY50510324	2023-12-05	2024-12-05
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2024-03-21	2025-03-21
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2024-04-29	2025-04-29
4	Bilog Antenna	TESEQ	CBL6111D	60654	2023-08-21	2025-08-21
5	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2024-04-15	2026-04-15
6	Attenuator	PASTERNAK	PE7AP006-06	L20210504000 023	2024-07-31	2025-07-31
7	Attenuator	NONE	6dB	190557	2023-09-25	2024-09-25
8	AMPLIFIER	SONOMA	310N	411011	2024-07-31	2025-07-31
9	Dual-Tracking DC Power Supply	Topward Electric Instruments Co.,Ltd.	6303D	711196	2024-03-20	2025-03-20
10	DC POWER SUPPLY	HP	E3632A	MY40009327	2024-03-20	2025-03-20
11	EMI Test Receiver	R&S	ESR3	102826	2024-04-29	2025-04-29
12	LISN	R&S	ENV216	101236	2023-10-31	2024-10-31

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable(conducted)	Junkosha Inc.	MWX221	2008S240	2024-08-27
2	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2024-03-05
3	RF Cable (9kHz-1GHz Radiated)	Canare Corporation	L-5D2W	N/A	2024-03-05
4	RF Cable (9kHz-1GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2024-03-05

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