

TEST REPORT

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01767
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1. Applicant

- Name : IoTrust Co., Ltd.
- Address : 7th floor, Samsungdang Building, 747, Seolleung-ro , Gangnam-gu, Seoul,
Republic of Korea
- Date of Receipt : 2026-05-20

2. Manufacturer

- Name : IoTrust Co., Ltd.
- Address : 7th floor, Samsungdang Building, 747, Seolleung-ro , Gangnam-gu, Seoul,
Republic of Korea

3. Use of Report : For FCC Certification

4. Test Sample / Model : DCENT X(Hardware wallet) / DX-R1-SLV

5. Date of Test : 2026-06-17 to 2026-06-24

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 : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by Ji-Hye, Kim: (Signature) 	Technical Manager Young-taek Lee: (Signature) 
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2026-07-06

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-07-06	Issued (CTK-2026-01767)	All

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1. General Information

1.1 Applicant Information

Company	IoTrust Co., Ltd.
Contact Point	7th floor, Samsungdang Building, 747, Seolleung-ro , Gangnam-gu, Seoul, Republic of Korea
Contact Person	Name : Noh Yoon Kwon E-mail : smd8949@naver.com Tel : +82-2-6959-3559 Fax : +82-2-6959-3564

1.2 Product Information

FCC ID	2ASN5-DX-R1-SLV
Product Description	DCENT X(Hardware wallet)
Model name	DX-R1-SLV
Variant Model name	-
Operating Frequency	13.56 MHz
RF Output Power	With Tag : 51.3 dBuV/m @ 3 m Without Tag : 56.1 dBuV/m @ 3 m
Antenna Type	PCB antenna(Loop Antenna)
Power Source	DC 3.70 V (Battery)
Hardware Rev	-PP1
Software Rev	Ver 1.0.0

1.3 Antenna Information

☒	Integral antenna (antenna permanently attached)
☐	Temporary RF connector provided
☒	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.
☐	External antenna (dedicated antennas)

1.4 Model Differences

Not applicable

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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.

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3. Test Specifications

3.1 Standards

Section in FCC	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 C63.10-2020+Cor 1-2023+C63.10a-2024+Errata to C63.10a-2024			

3.2 Testing Environment

Test Item		Test Date	Temperature (± 1 °C)	Relative Humidity (± 3 % R.H.)
Bandwidth		2026-06-17	24	48
Transmitter emission (Radiated)	1) 9 kHz to 30 MHz	2026-06-17	24	48
	2) 30 MHz to 1 GHz			
Frequency tolerance		2026-06-19, 2026-06-22	23,24	48,47
AC Conducted Emission		2026-06-24	22	54

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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.

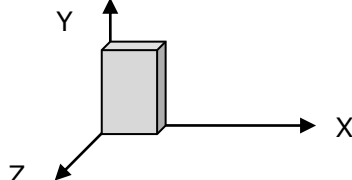
Testing was performed for both With Tag and Without Tag conditions.

Except for the Field Strength Emissions test, only the worst-case data were included in the test report.

Test Frequency

Operating Frequency	13.56 MHz
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The Worst Case Measurement Configuration

User Position	☐ EUT will be placed in fixed position.
	☐ EUT will be placed in mobile position and operating multiple positions.
	☒ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.
Operating Mode	Operated normally mode for worst duty cycle
EUT faces identified relative to view from receiving antenna	

3.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
NFC(RFID) Card	-	-	-

3.5 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
Occupied Bandwidth	0.1 MHz (C.L. : Approx. 95%, $k = 2$)
Radiated emissions	4.11 dB(C.L. : Approx. 95%, $k = 2$)
Frequency tolerance	10 Hz(C.L. : Approx. 95%, $k = 2$)
Line Conducted emissions	2.06 dB(C.L. : Approx. 95%, $k = 2$)

3.6 Test Software

Automation program

Conducted Test	-
Radiated Test	ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.00

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.

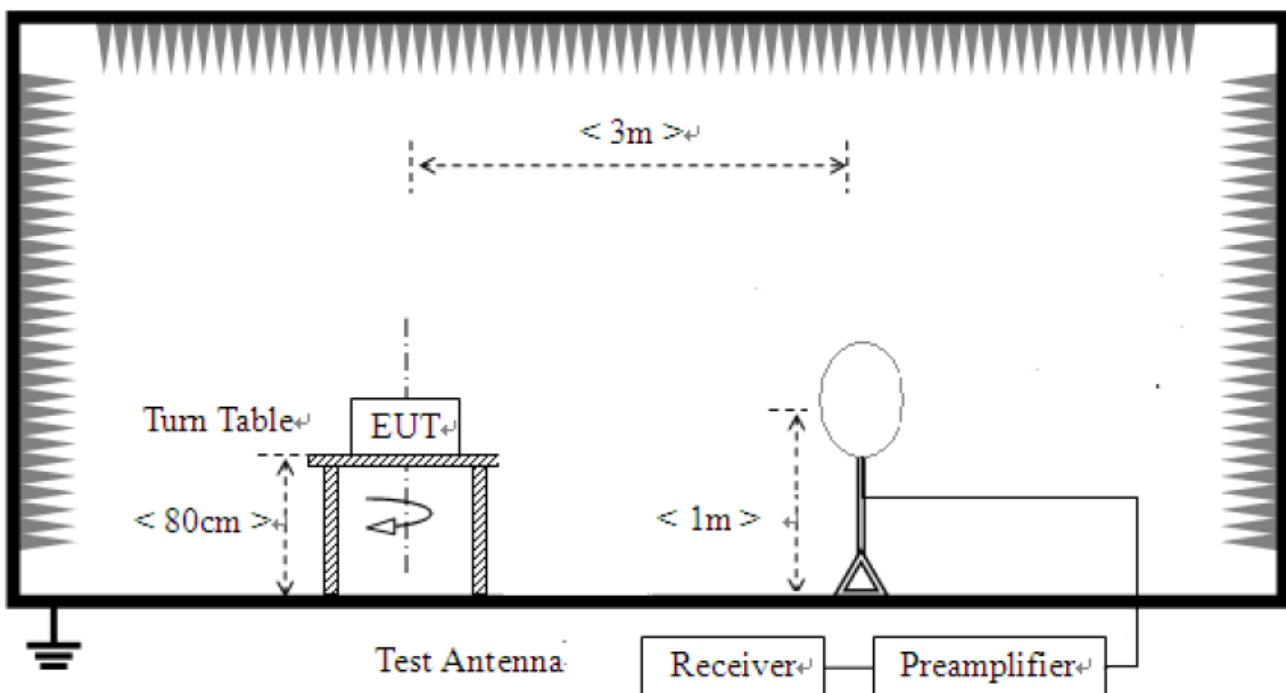
The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported 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 C63.10-2020, clause 6.9(Occupied bandwidth).

Test Setup





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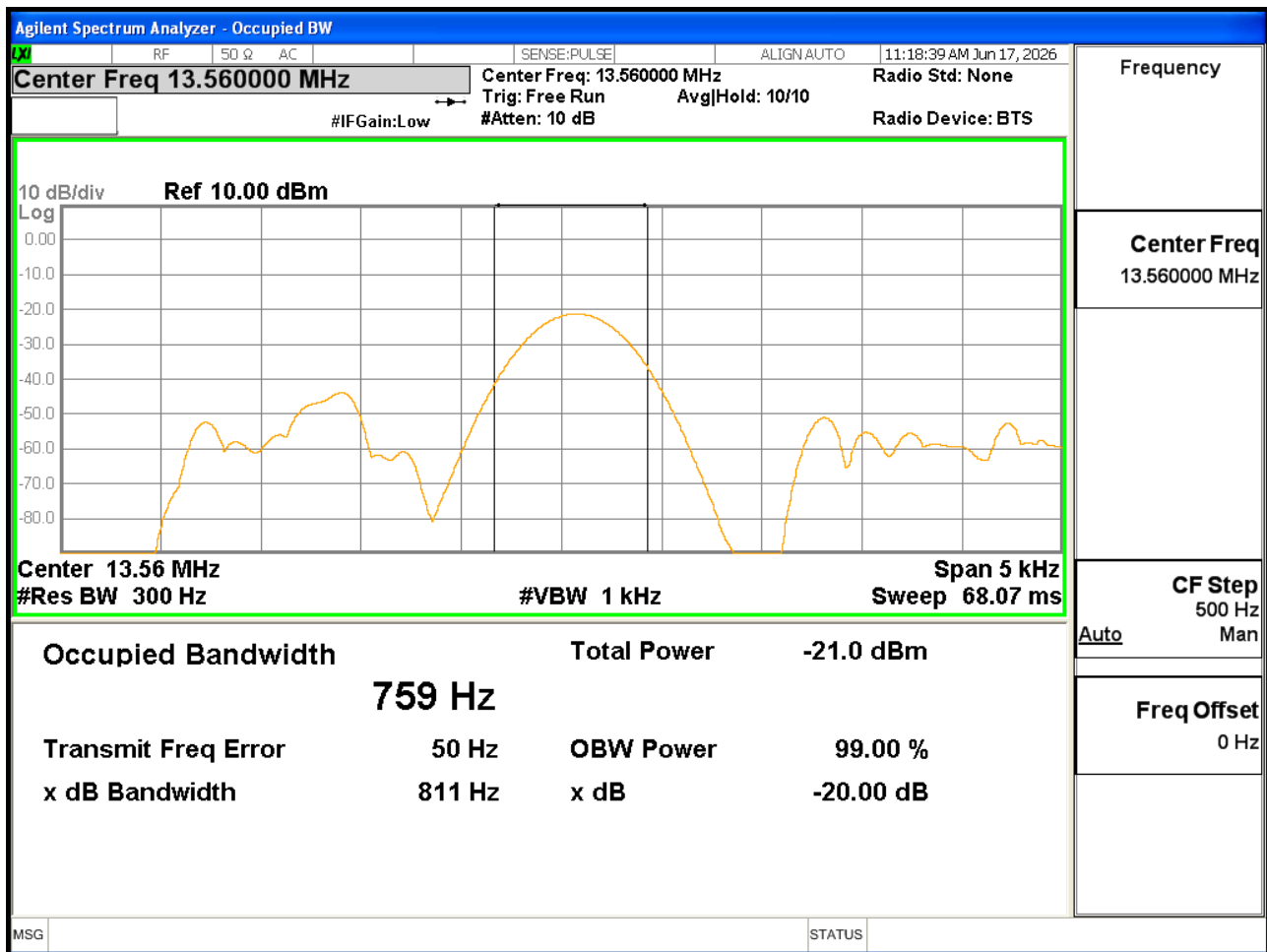
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Test data:

Test mode : With Tag (Worst Case)

Emission Bandwidth	Result	Limit
20dB Bandwidth	811 Hz	N/A
99% Bandwidth	759 Hz	N/A



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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

- (c) 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.

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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.

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Test Location

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

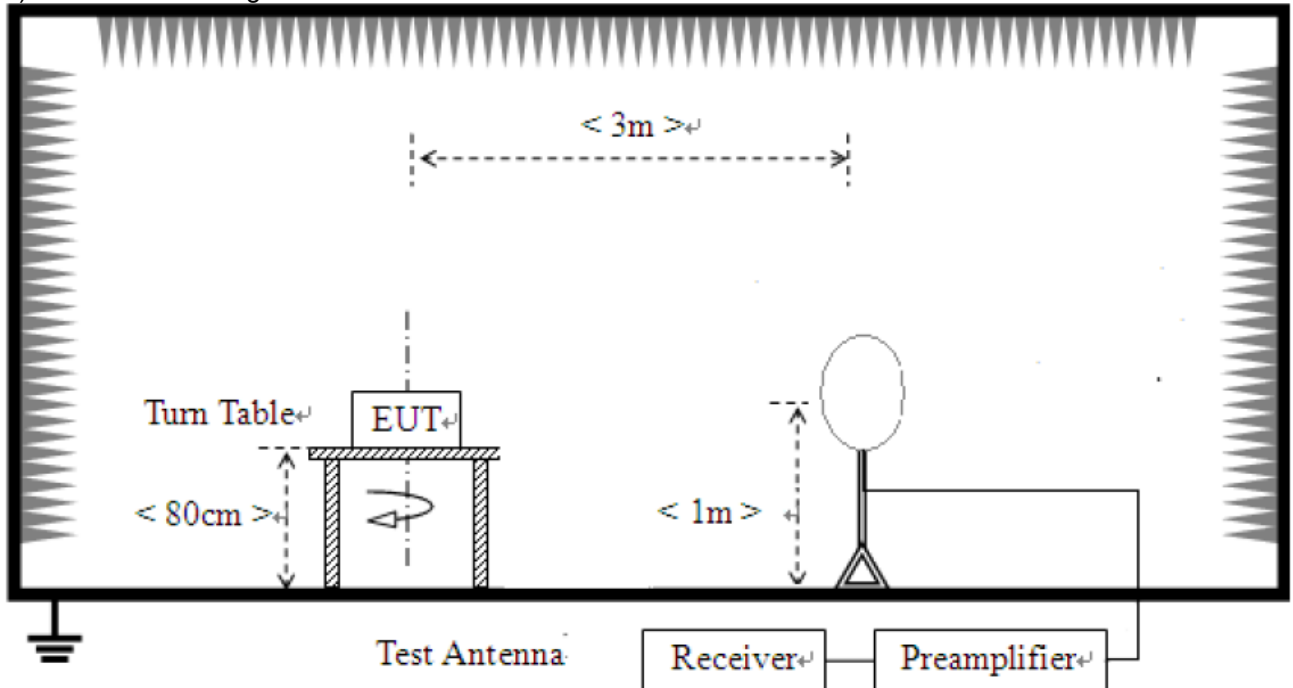
Test Procedures

Test Method	
☒	Refer as ANSI C63.10-2020, clause 6.4(Radiated emissions from unlicensed wireless devices below 30 MHz).
☒	Radiated emission tests shall be performed in the frequency range of 9 kHz to 30 MHz, using a calibrated loop antenna. 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. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
☒	The results shall be by using the square of an inverse linear distance extrapolation factor(40 dB/decade).
☒	Refer as ANSI C63.10-2020, clause 6.5(Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz).
☒	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.
☒	Emissions more than 20 dB below the limit do not need to be reported.

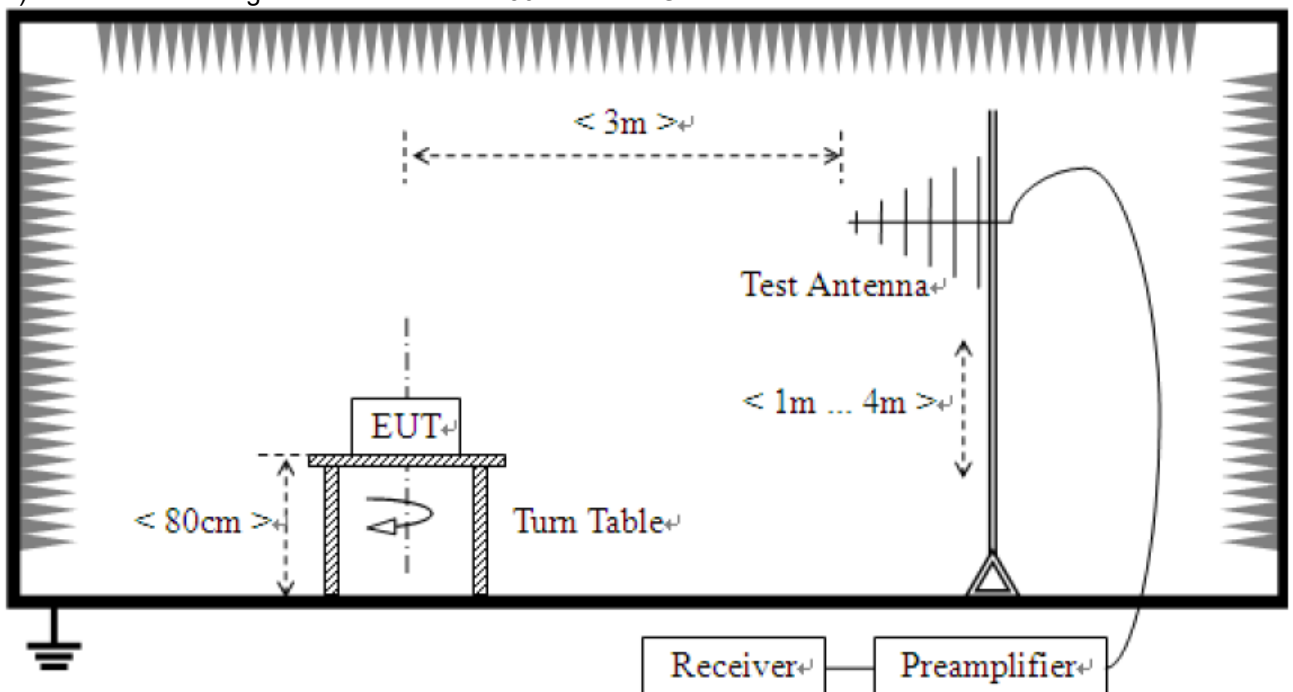
Measuring instrument Settings	
Frequency Range	9 kHz – 1 000 MHz
RBW	200 Hz (9 kHz – 150 kHz) 9 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1 000 MHz)
VBW	≥ RBW
Sweep time	auto couple
Detector function	CISPR quasi-peak(below 1 000 MHz)

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





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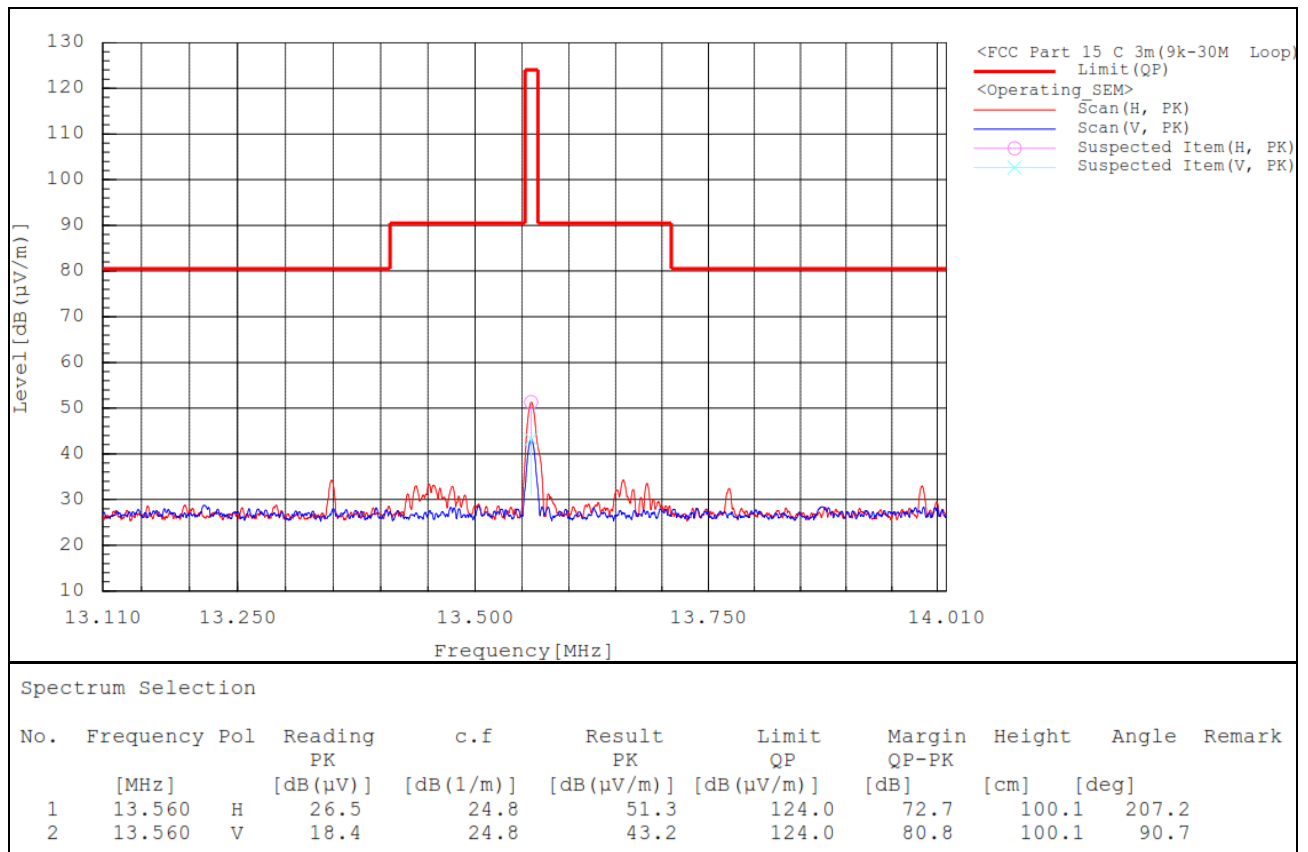
Test data:

1) Radiated emissions within the band 13.110-14.010 MHz

Test mode : With Tag

The requirements are:

☒ Complies



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.



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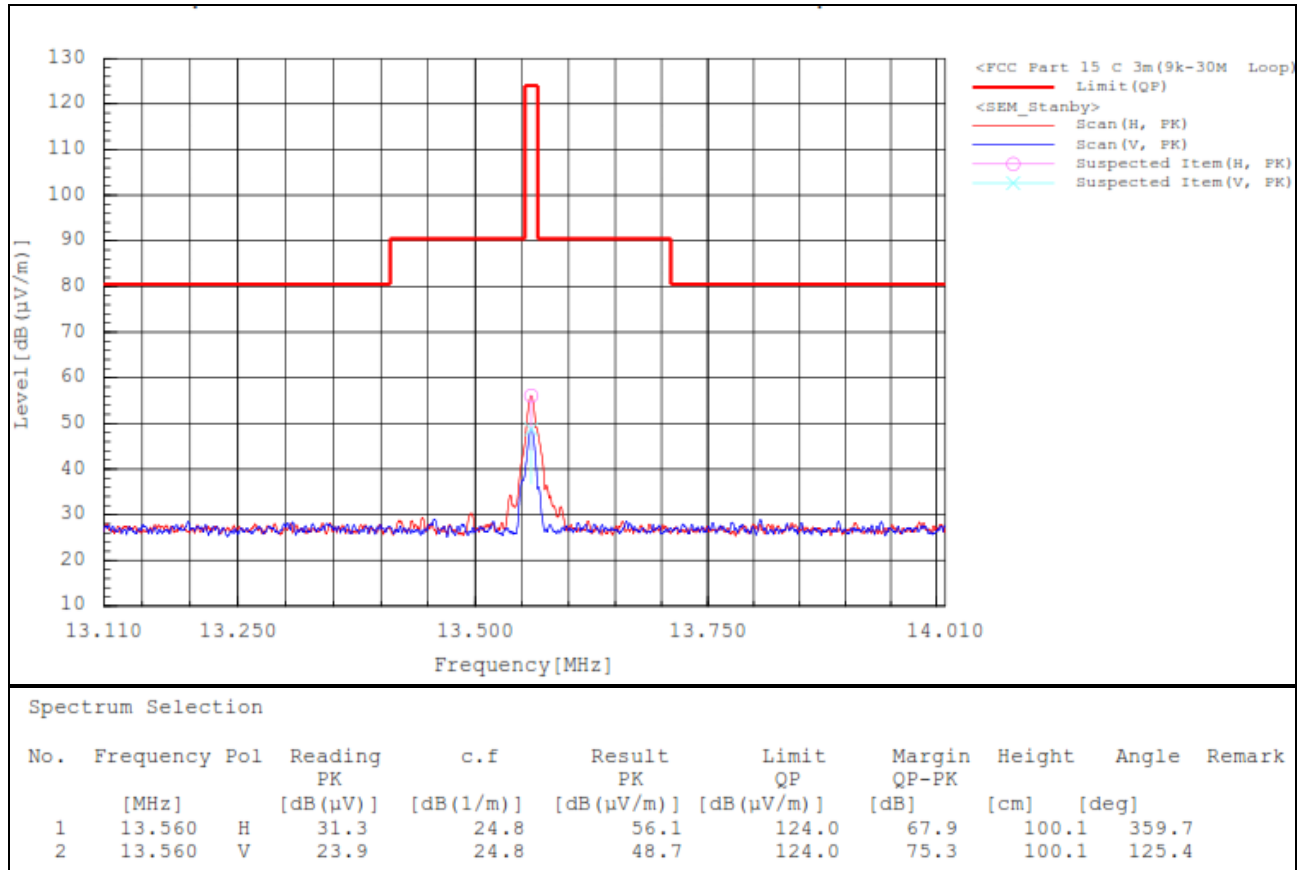
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Test mode : Without Tag

The requirements are:

☒ Complies



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.



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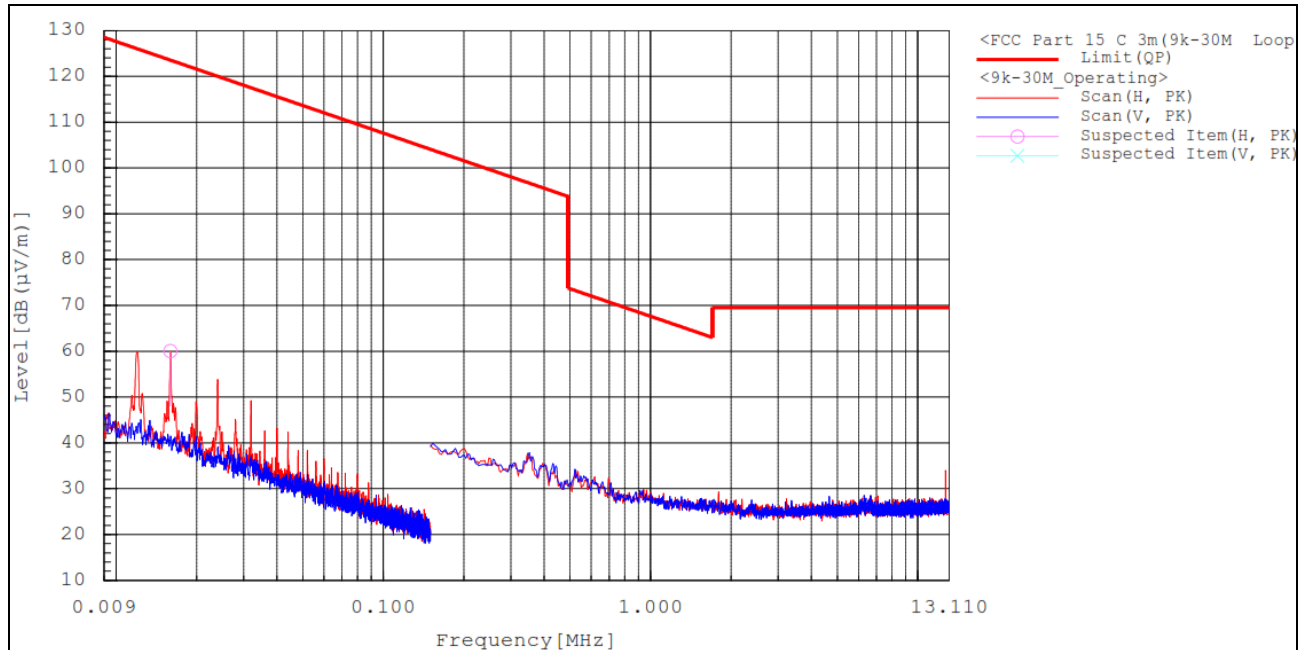
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2) Frequency range : 9 kHz – 13.110 MHz

Test mode : With Tag

The requirements are:

☒ Complies



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.
4. Emissions more than 20 dB below the limit need not be reported



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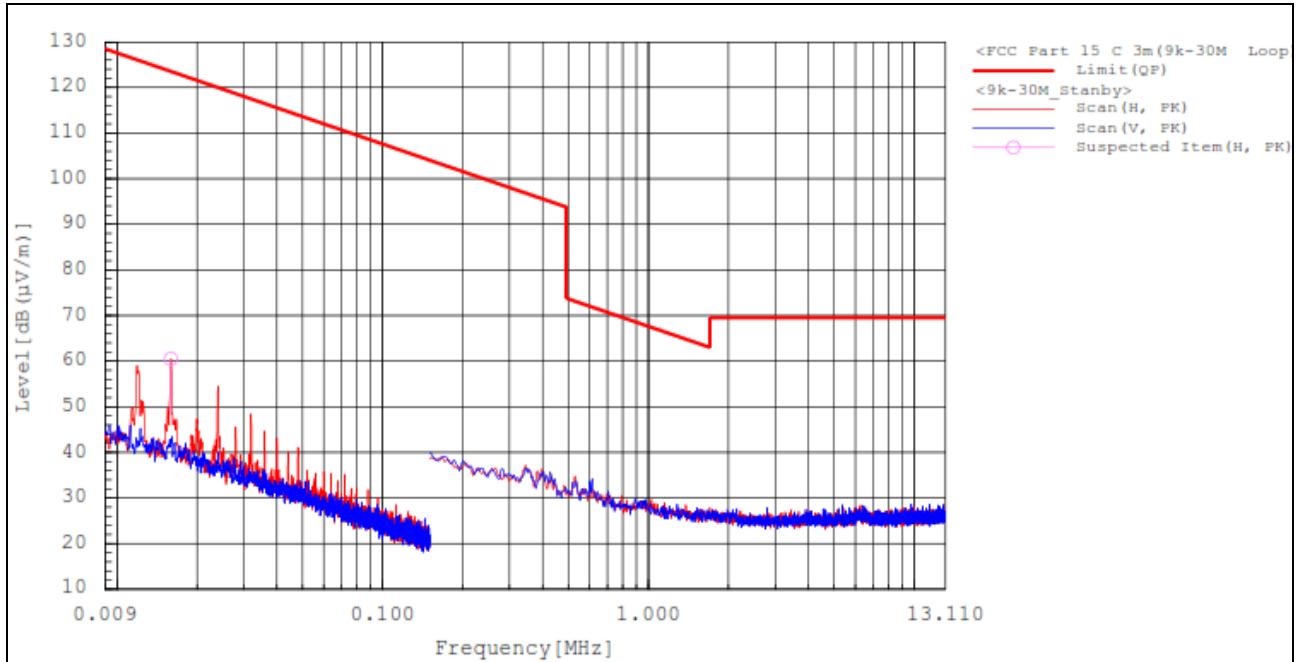
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Test mode : Without Tag

The requirements are:

☒ Complies



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.
4. Emissions more than 20 dB below the limit need not be reported



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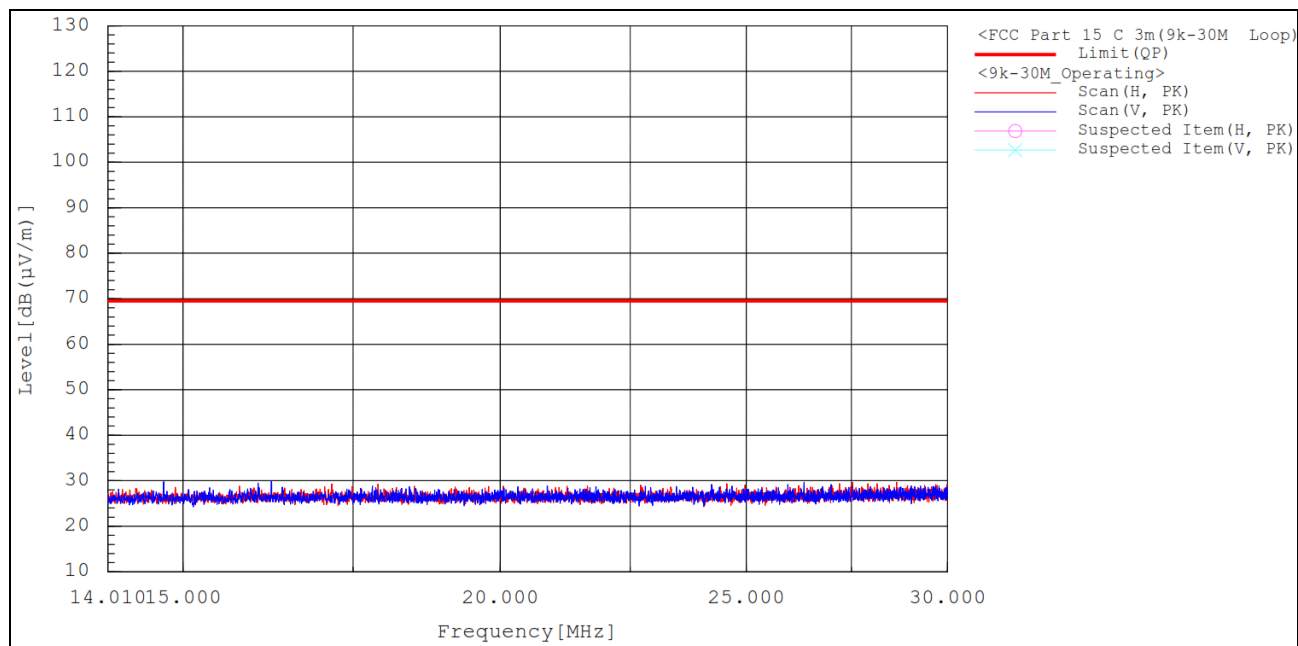
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3) Frequency range : 14.010 MHz – 30 MHz

Test mode : With Tag

The requirements are:

☒ Complies



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.
4. Emissions more than 20 dB below the limit need not be reported



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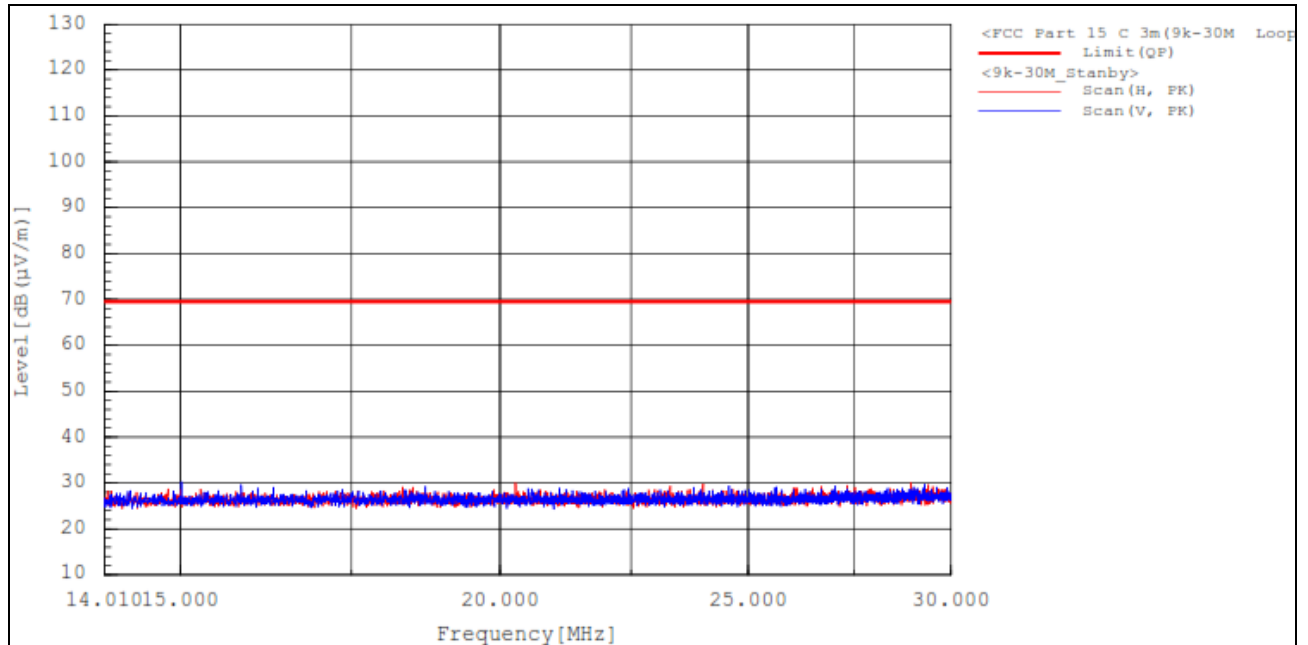
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Test mode : Without Tag

The requirements are:

☒ Complies



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.
4. Emissions more than 20 dB below the limit need not be reported



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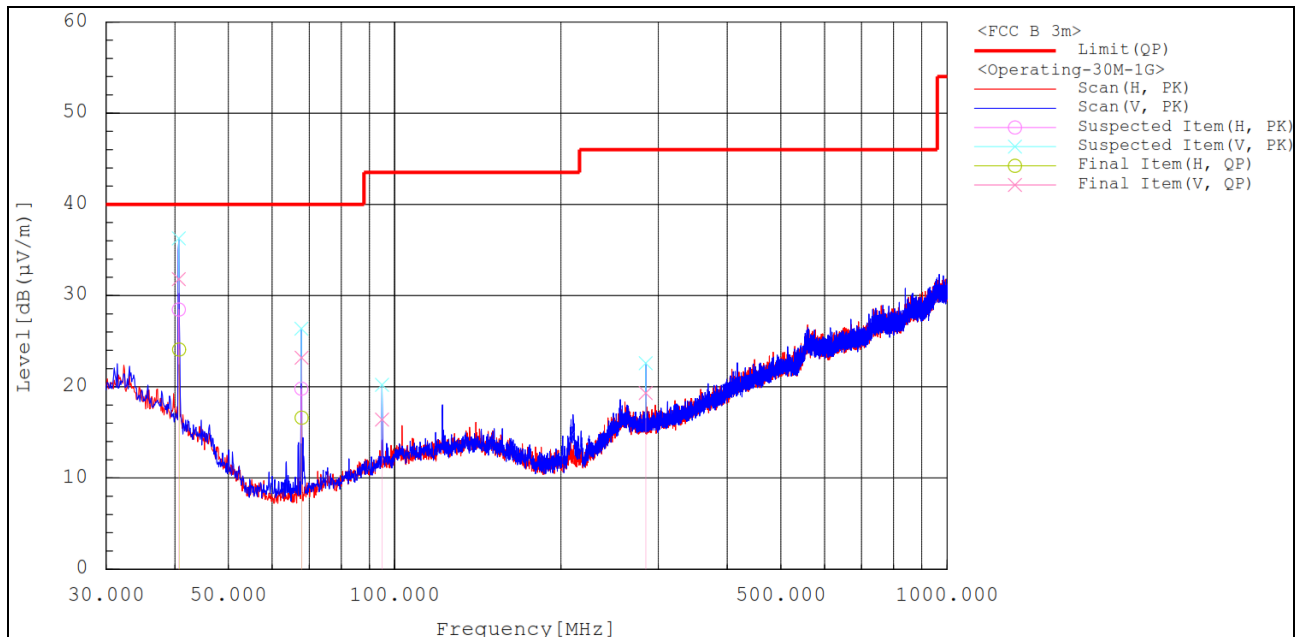
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4) Radiated emissions in the range of 30 MHz to 1 000 MHz band

Test mode : With Tag

The requirements are:

☒ Complies



Final Result

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle
	[MHz]		QP		QP	QP	QP		
			[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[cm]	[deg]
1	40.681	H	34.5	-10.4	24.1	40.0	15.9	299.9	341.2
2	40.676	V	42.2	-10.4	31.8	40.0	8.2	99.9	87.1
3	67.804	H	34.8	-18.2	16.6	40.0	23.4	199.9	0.9
4	67.803	V	41.4	-18.2	23.2	40.0	16.8	99.9	87.1
5	94.893	V	31.2	-14.8	16.4	43.5	27.1	99.9	87.1
6	284.722	V	29.6	-10.3	19.3	46.0	26.7	200.0	74.9

Remark

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain



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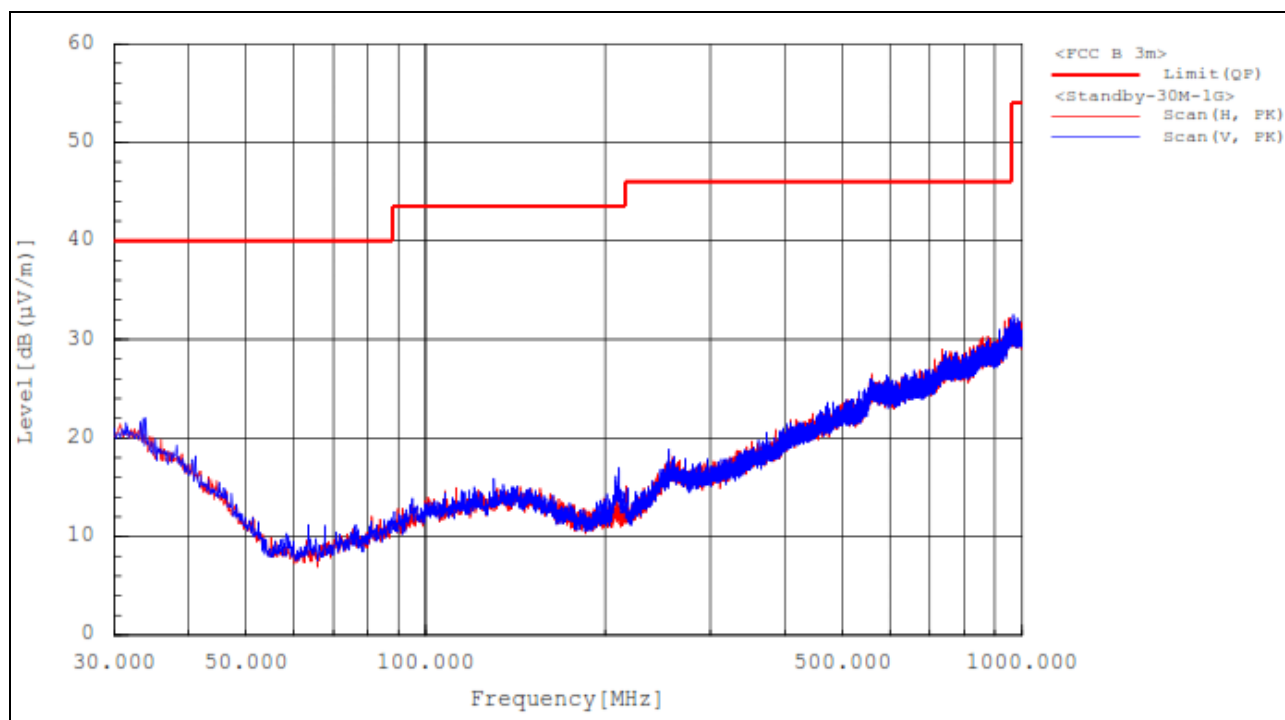
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Test mode : Without Tag

The requirements are:

☒ Complies



Remark

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
3. Emissions more than 20 dB below the limit need not be reported

4.3 Frequency Stability

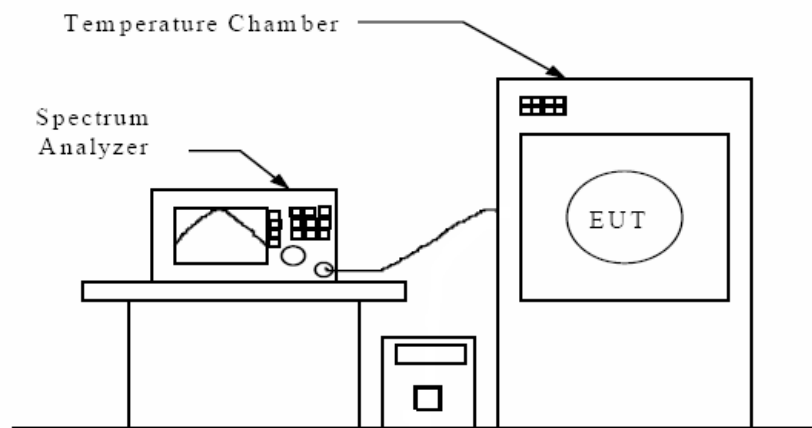
Requirement

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 C63.10-2020, clause 6.8(Frequency stability tests).

Test Setup



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Test data:**Test mode : With Tag (Worst Case)**

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°C	13.560 052	13.560 050	13.560 050	13.560 050	3.83	3.69	3.69	3.69
Temp. 40°C	13.560 066	13.560 062	13.560 060	13.560 062	4.87	4.57	4.42	4.57
Temp. 30°C	13.560 090	13.560 082	13.560 082	13.560 082	6.64	6.05	6.05	6.05
Temp. 20°C	13.560 122	13.560 120	13.560 120	13.560 120	9.00	8.85	8.85	8.85
Temp. 10°C	13.560 150	13.560 146	13.560 146	13.560 146	11.06	10.77	10.77	10.77
Temp. 0°C	13.560 158	13.560 158	13.560 158	13.560 158	11.65	11.65	11.65	11.65
Temp. -10°C	13.560 166	13.560 162	13.560 162	13.560 160	12.24	11.95	11.95	11.80
Temp. -20°C	13.560 146	13.560 140	13.560 134	13.560 130	10.77	10.32	9.88	9.59
Voltage 85%	13.560 084	13.560 086	13.560 078	13.560 076	6.19	6.34	5.75	5.60
Voltage 115%	13.560 074	13.560 074	13.560 074	13.560 074	5.46	5.46	5.46	5.46
Limit(ppm)	-				100			

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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 C63.10-2020 - 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



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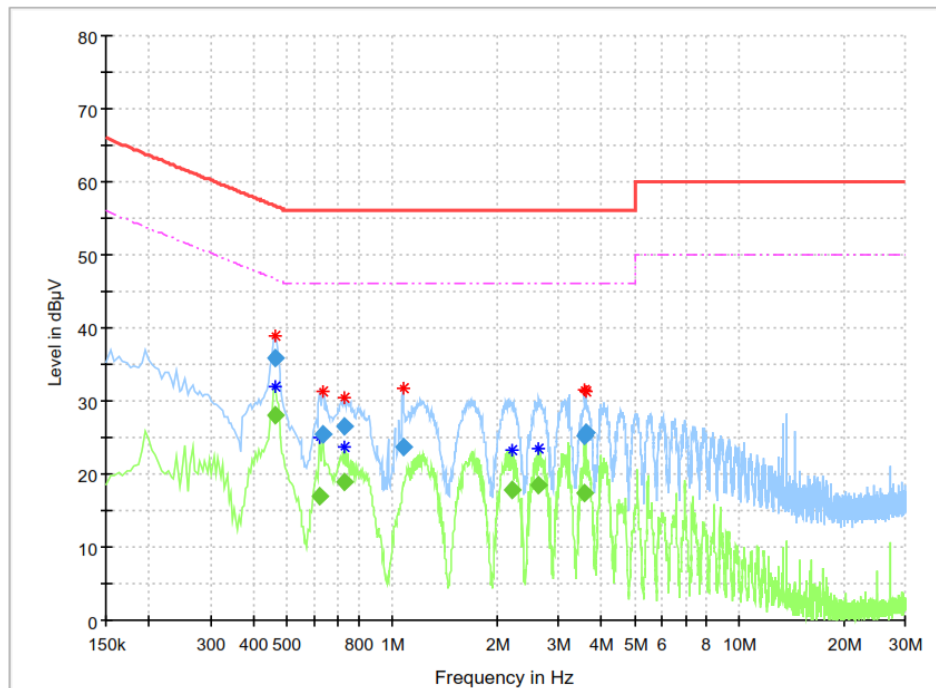
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Test data:

Test mode : With Tag (Worst Case)

[LINE, NEUTRAL]

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.460500	---	27.94	46.68	18.75	15000.0	9.000	N	ON	10.2
0.460500	35.79	---	56.68	20.90	15000.0	9.000	N	ON	10.2
0.618000	---	16.90	46.00	29.10	15000.0	9.000	N	ON	10.2
0.631500	25.33	---	56.00	30.67	15000.0	9.000	N	ON	10.1
0.730500	---	18.88	46.00	27.12	15000.0	9.000	N	ON	10.1
0.730500	26.59	---	56.00	29.41	15000.0	9.000	N	ON	10.1
1.077000	23.73	---	56.00	32.27	15000.0	9.000	N	ON	10.0
2.211000	---	17.77	46.00	28.23	15000.0	9.000	N	ON	10.0
2.652000	---	18.39	46.00	27.61	15000.0	9.000	N	ON	10.0
3.579000	25.22	---	56.00	30.78	15000.0	9.000	N	ON	10.0
3.588000	---	17.37	46.00	28.63	15000.0	9.000	N	ON	10.0
3.606000	25.61	---	56.00	30.39	15000.0	9.000	N	ON	10.0

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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Analyzer	Agilent	N9020A	MY49101016	2026-05-28	2027-05-28
2	DC Power Supply	HP	E3632A	KR75301278	2025-07-04	2026-07-04
3	Temp&Humi Chamber	ESEC CORP.	SH-242	93012243	2026-03-23	2027-03-23
4	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2026-04-27	2027-04-27
5	BILOG ANTENNA	TESEQ	CBL6111D	60654	2025-08-21	2027-08-21
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2026-03-25	2028-03-25
7	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2025-07-28	2026-07-28
8	6dB Attenuator	NONE	6dB	190557	2025-09-18	2026-09-18
9	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2025-07-28	2026-07-28
10	EMI Test Receiver	R&S	ESR3	102826	2026-04-27	2027-04-27
11	LISN	R&S	ENV216	102698	2026-04-27	2027-04-27

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