



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

Unattended Payment Terminal

MODEL NUMBER: IM28

REPORT NUMBER: 4792178956-1-RF-6

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Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 29, 2026	Initial Issue	

Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	20dB Bandwidth	Part 15.215 (c)	PASS
2	Transmitter Frequency Stability (Temperature & Voltage Variation)	CFR 47 FCC §15.225(e)	PASS
3	Fundamental Field Strength	CFR 47 FCC §15.225(a)(b)(c)(d)	PASS
4	Radiated Emissions	CFR 47 FCC§15.209(a) CFR 47 FCC§15.225(d)	PASS
5	Band Edge Radiated Emissions	CFR 47 FCC §15.209(a) CFR 47 FCC §15.225(c)(d)	PASS
6	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207	PASS
7	Antenna Requirement	CFR 47 FCC §15.203	PASS
Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China. Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Simple Acceptance> decision rule is applied.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PAX Technology Limited
Address: FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD, WANCHAI, HK, China

Manufacturer Information

Company Name: PAX Computer Technology (Shenzhen) Co., Ltd.
Address: Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

EUT Information

EUT Name: Unattended Payment Terminal
Model: IM28
Sample Received Date: March 16, 2026
Sample Status: Normal
Sample ID: 9535166
Date of Tested: March 16, 2026 to April 29, 2026

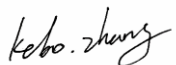
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	4.36 dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.47 dB
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	5.65 dB (1 GHz ~ 18 GHz)
	4.73 dB (18 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

Remark: For Radiated Emission measurements (200 MHz - 18 GHz), the EUT support table is made of Expanded Polystyrene (EPS). This material is characterized by a low dielectric constant, as recognized in CISPR 16-1-4, to minimize its influence on field strength measurements. This influence has been considered in the uncertainty budget.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Unattended Payment Terminal
Model	IM28
Frequency	13.56 MHz
Normal Test Voltage	AC 120V 60Hz

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Max Peak field strength @30m (dB μ V/m)
13.56	11.46

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
13.56	Coil antenna	0

5.4. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	45 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	-10 ~ 50°C
Voltage:	VL	AC 102 V
	VN	AC 120 V
	VH	AC 138 V

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E42-80	/
2	AC Adaptor	HONOR	ADS-65HI-19A-2 24065E	Input: 100-240V~ 50- 60Hz 1.5A max Output: 24.0A = 2.7A 64.8W

I/O CABLES

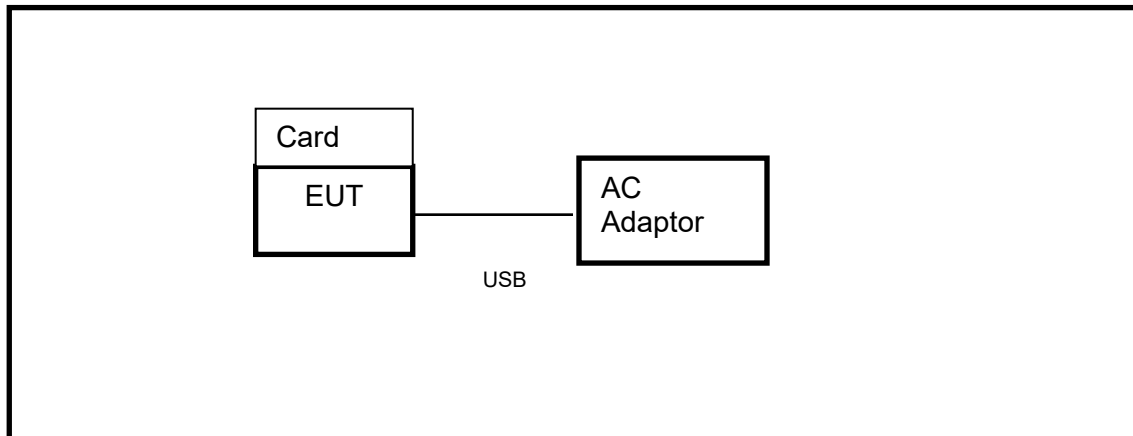
Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS

Note:

1. Test was performed with tag and without tag, but only the worst case data (with tag) was recorded in the report.

4. NFC support both ISO /IEC 14443A and ISO /IEC 14443B. All lowest and highest data rates as per the standards are supported - 106 kbps, 212 kbps, 424 kbps and 848 kbps, all the modes had been tested, but only the worst data (ISO 14443A 106 kbps) was recorded in the report.

5.6. MEASURING INSTRUMENT AND SOFTWARE USED

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.12, 2025	Sep.11, 2026
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.12, 2025	Sep.11, 2026
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.12, 2025	Sep.11, 2026
Software					
Description		Manufacturer		Name	Version
Test Software for Radiated Emissions		Farad		EZ-EMC	Ver. UL-3A1
Other instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.12, 2025	Sep.11, 2026

6. ANTENNA PORT TEST RESULTS

6.1. 20dB BANDWIDTH

LIMITS

Section	Test Item	Limit
ANSI C63.10 Section 6.9.2	20dB% Bandwidth	For reporting purposes only.

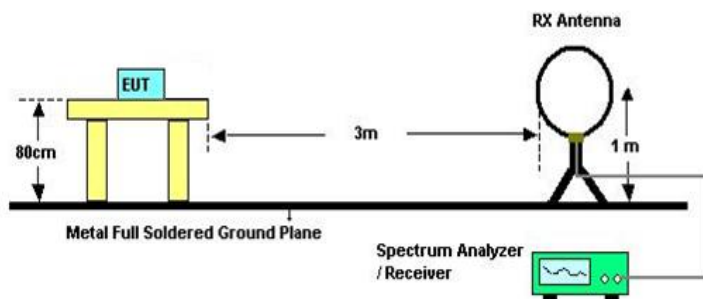
TEST PROCEDURE

1. The EUT was placed on a turntable with 80 cm above ground. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a 1 m height antenna tower. The receiving antenna was connected to spectrum analyzer.
2. The RBW is set to 1 kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 20dB bandwidth function is utilized.
3. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp is used for the test in order to get better signal level.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

The type of band for the signal is narrowband.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120V/60Hz

RESULTS

Frequency (MHz)	20dB bandwidth (kHz)
13.56	2.698

20dB bandwidth



6.2. TRANSMITTER FREQUENCY STABILITY

LIMITS

CFR 47 FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -10 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.

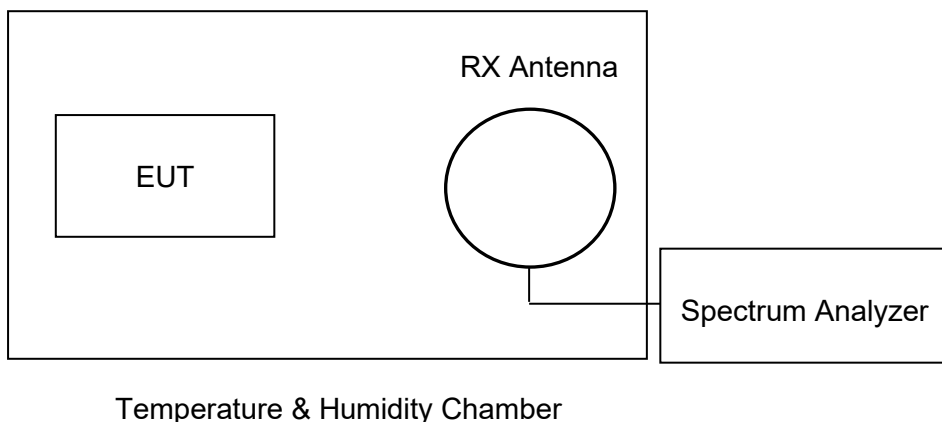
TEST SETUP AND PROCEDURE

The spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

1. The EUT was placed in a Temperature & Humidity Chamber. The EUT was set to align the receiving antenna which was connected to spectrum analyzer outside the Temperature & Humidity Chamber.
2. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.2°C	Relative Humidity	58 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120V/60Hz

RESULTS

Maximum frequency error of the EUT with variations in ambient temperature

Temperature (°C)	Time after Start-up			
	0 minutes	2 minutes	5 minutes	10 minutes
-10	13.5592	13.5594	13.5593	13.5594
0	13.5593	13.5592	13.5593	13.5591
10	13.5594	13.5589	13.5594	13.5596
20	13.5595	13.5592	13.5595	13.5595
30	13.5595	13.5595	13.5597	13.5596
40	13.5593	13.5596	13.5595	13.5594
50	13.5595	13.5596	13.5598	13.5594
Maximum frequency error	-0.0059%	-0.0059%	-0.0052%	-0.0066%
Limit	±0.01%			
Result	Pass	Pass	Pass	Pass

Maximum frequency error of the EUT with variations in nominal operating voltage at an ambient 20 degrees C temperature.

Supply Voltage (V)	Time after Start-up			
	0 minutes	2 minutes	5 minutes	10 minutes
AC 230 V	13.5592	13.5592	13.5592	13.5594
AC 102 V	13.5593	13.5583	13.5594	13.5593
AC 138 V	13.5593	13.5591	13.5594	13.5595
Maximum frequency error	-0.0059%	-0.0066%	-0.0044%	-0.0052%
Limit	±0.01%			
Result	Pass	Pass	Pass	Pass

7. RADIATED EMISSION TEST RESULTS

LIMITS

Fundamental field strength

FCC Reference:	Part 15.225(a)(b)(c)(d) & 15.209(a)
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5

Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measured Distance (Meters)
13.553-13.567	15848	84	30
13.410-13.553/13.567-13.710	334	50.47	30
13.110-13.410/13.710-14.010	106	40.51	30

Note(s):

1. 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.

2. The limit is specified at a test distance of 30 meters. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).

Radiation Disturbance Test Limit for FCC (Class B) (9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30MHz.

Restricted bands of operation

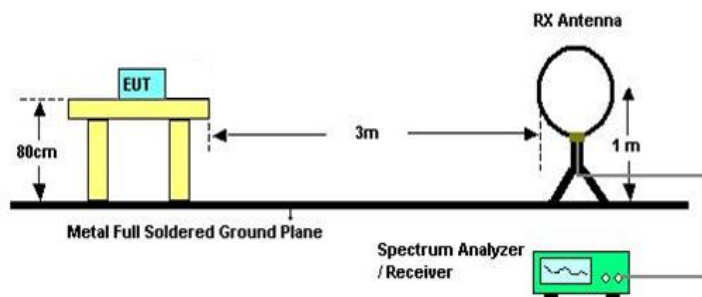
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30 MHz

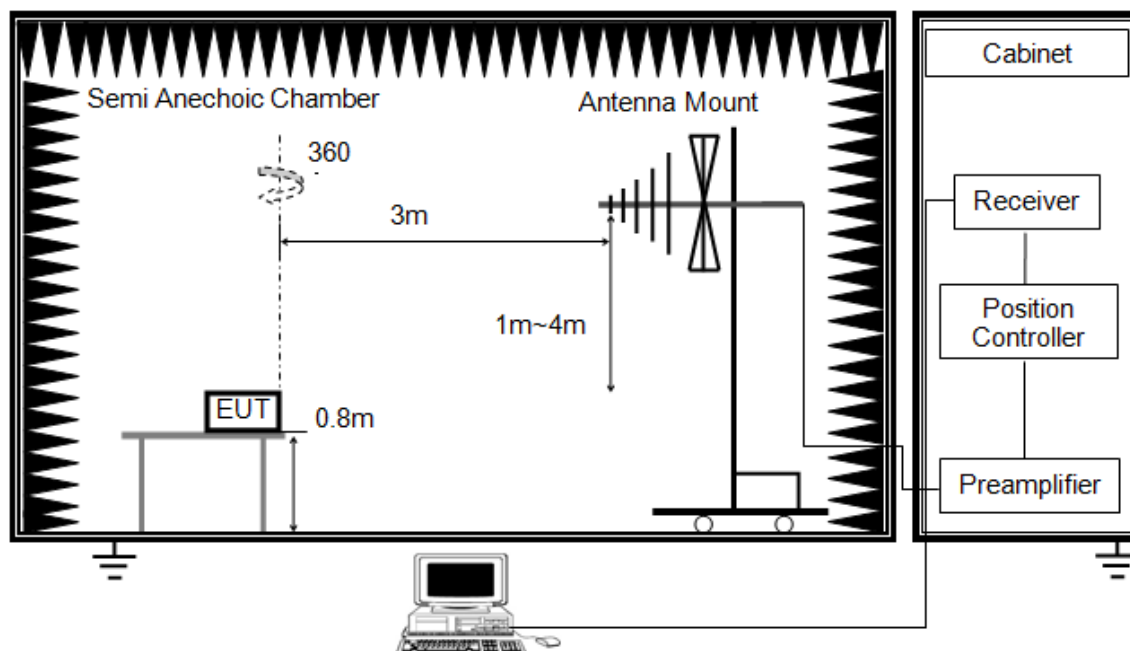


The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
- The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- The EUT was placed on a turntable with 80 cm above ground.
- The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- The radiated emission limits 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.
- For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field 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 site based on KDB 414788.
- The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω ; For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1G

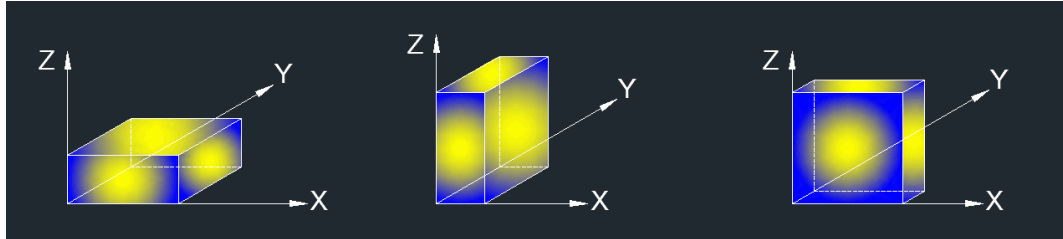


The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. The initial step of collecting radiated emission data is to set a spectrum analyzer peak detector mode, pre-scanning the measurement frequency range. Significant peaks then be marked and each peak mark is checked to be highest by slowing down the sweep time, rotated speed of turntable and lifting speed of receive antenna, then switch to receiver mode to read QP value for the marker whose margin is less than 3dB.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

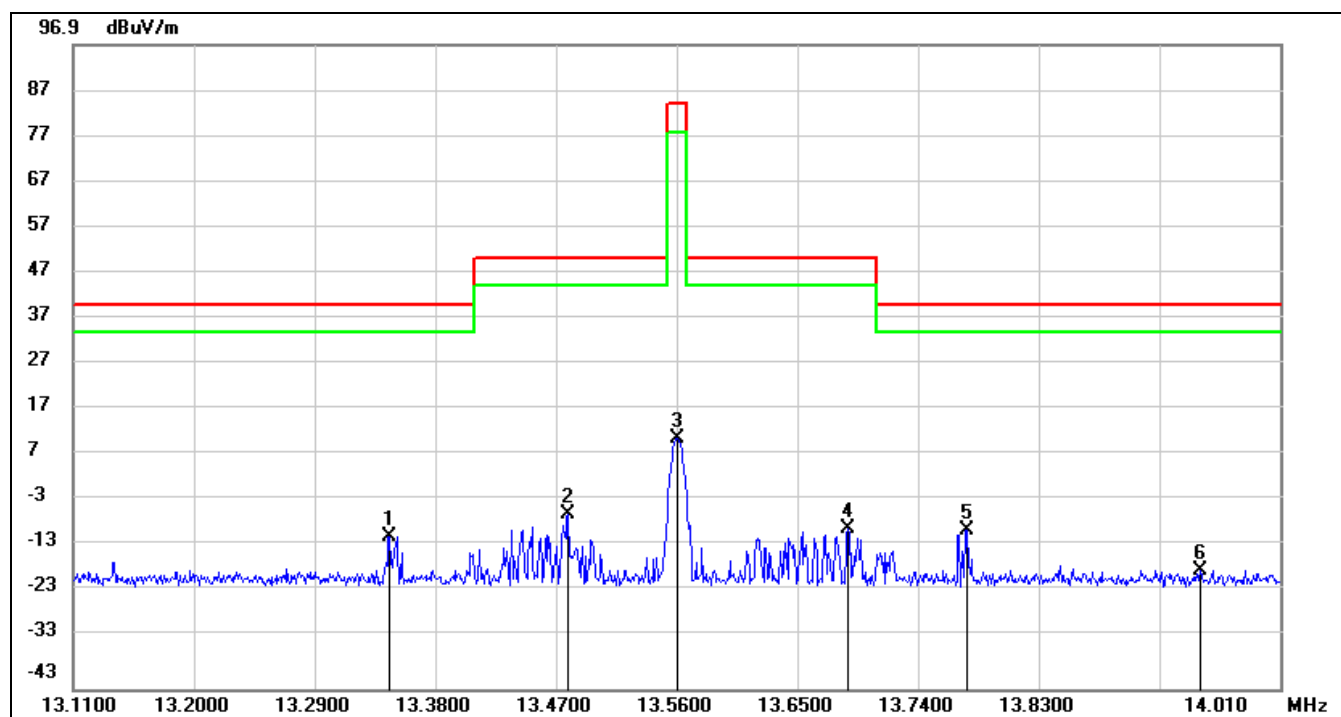
TEST ENVIRONMENT

Temperature	22.1 °C	Relative Humidity	54 %
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60HZ

RESULTS

7.1. FIELD STRENGTH OF INTENTIONAL EMISSIONS

FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3458	41.30	-51.18	-9.88	40.51	-50.39	peak
2	13.4790	45.92	-51.17	-5.25	50.47	-55.72	peak
3	13.5600	62.63	-51.17	11.46	84.00	-72.54	peak
4	13.6878	42.77	-51.16	-8.39	50.47	-58.86	peak
5	13.7760	42.64	-51.15	-8.51	40.51	-49.02	peak
6	13.9506	33.74	-51.14	-17.40	40.51	-57.91	peak

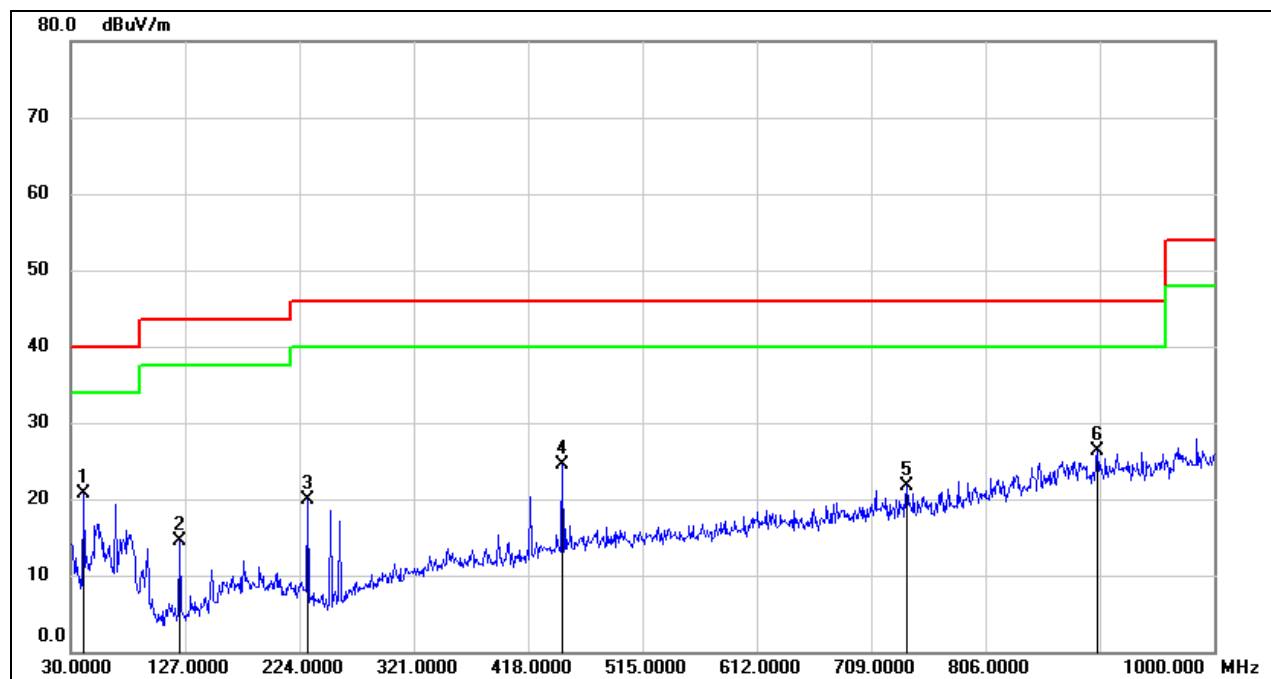
Note: 1. Result Level = Read Level + Correct Factor.

2. The test result is for 30m, the distance extrapolation factor (40dB/decade) has been considered in the test result.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

7.2. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

SPURIOUS EMISSIONS (HORIZONTAL)

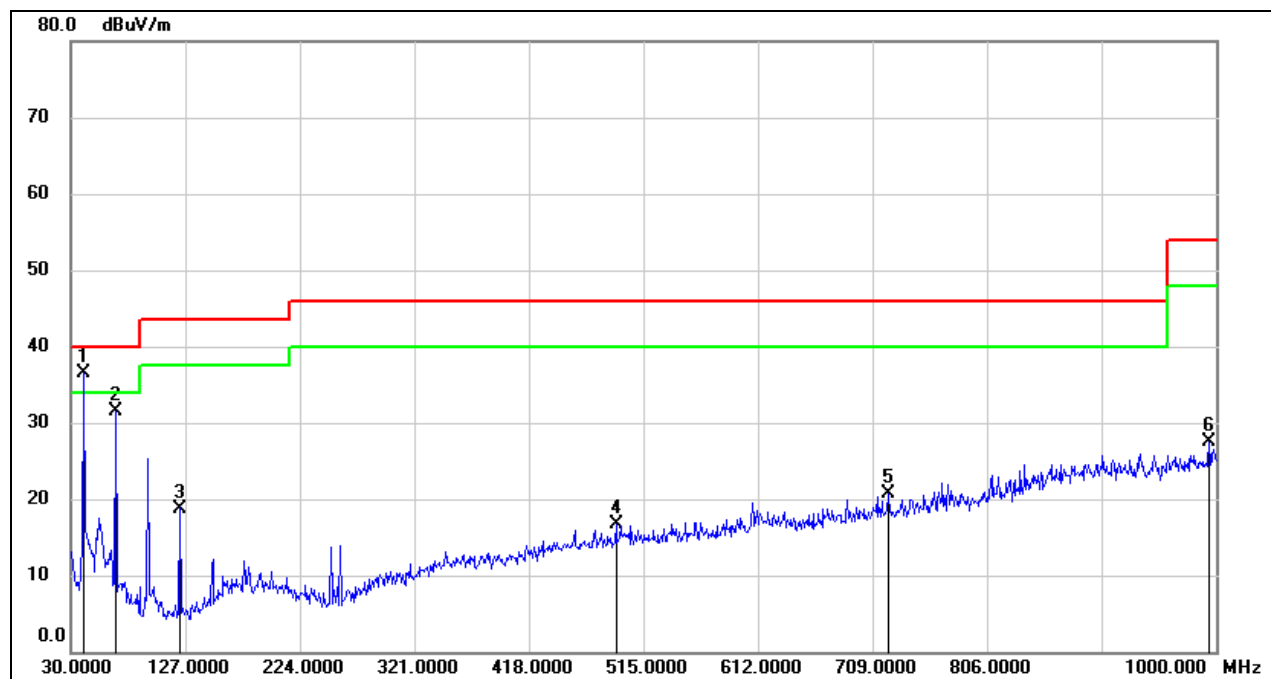


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.6699	35.62	-14.98	20.64	40.00	-19.36	peak
2	122.1500	29.34	-14.87	14.47	43.50	-29.03	peak
3	230.7900	33.63	-13.66	19.97	46.00	-26.03	peak
4	447.1000	32.42	-7.95	24.47	46.00	-21.53	peak
5	739.0700	25.29	-3.55	21.74	46.00	-24.26	peak
6	901.0600	26.92	-0.54	26.38	46.00	-19.62	peak

Note: 1. Result Level = Read Level + Correct Factor.

2. The peak value is compliant with the QP limit, and the margin is greater than 3dB, QP value is not captured.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.6700	51.49	-14.98	36.51	40.00	-3.49	peak
2	67.8300	46.82	-15.31	31.51	40.00	-8.49	peak
3	122.1500	33.67	-14.87	18.80	43.50	-24.70	peak
4	491.7200	24.11	-7.36	16.75	46.00	-29.25	peak
5	722.5800	24.43	-3.82	20.61	46.00	-25.39	peak
6	994.1800	27.27	0.22	27.49	54.00	-26.51	peak

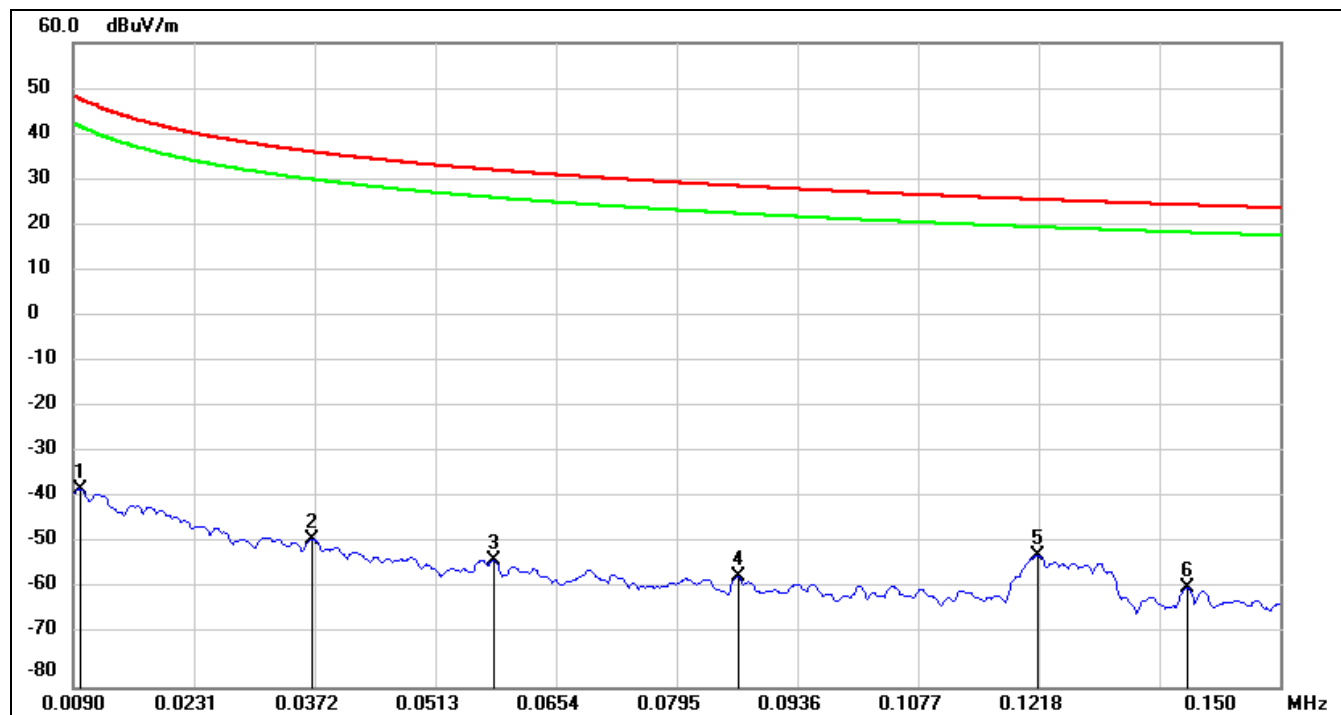
Note: 1. Result Level = Read Level + Correct Factor.

2. The peak value is compliant with the QP limit, and the margin is greater than 3dB, QP value is not captured.

7.3. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)

9 kHz~ 150 kHz



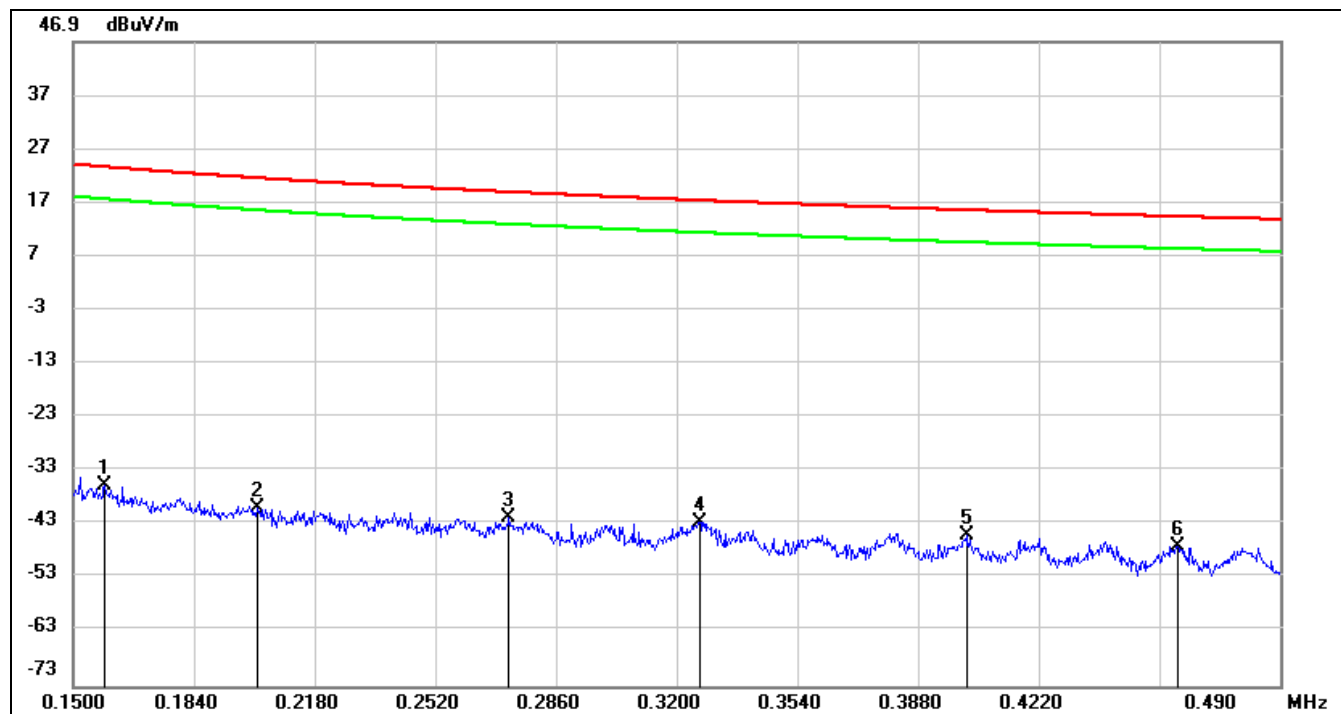
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0098	53.27	-90.35	-37.08	47.75	-84.83	peak
2	0.0369	43.44	-91.38	-47.94	36.26	-84.20	peak
3	0.0582	39.48	-92.15	-52.67	32.30	-84.97	peak
4	0.0866	36.61	-92.75	-56.14	28.85	-84.99	peak
5	0.1215	41.17	-92.56	-51.39	25.91	-77.30	peak
6	0.1391	33.90	-92.45	-58.55	24.74	-83.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

150 kHz ~ 490 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1587	56.57	-92.32	-35.75	23.59	-59.34	peak
2	0.2017	52.09	-92.06	-39.97	21.51	-61.48	peak
3	0.2727	50.67	-92.38	-41.71	18.89	-60.60	peak
4	0.3265	49.94	-92.56	-42.62	17.32	-59.94	peak
5	0.4016	47.60	-92.73	-45.13	15.53	-60.66	peak
6	0.4611	45.85	-92.86	-47.01	14.33	-61.34	peak

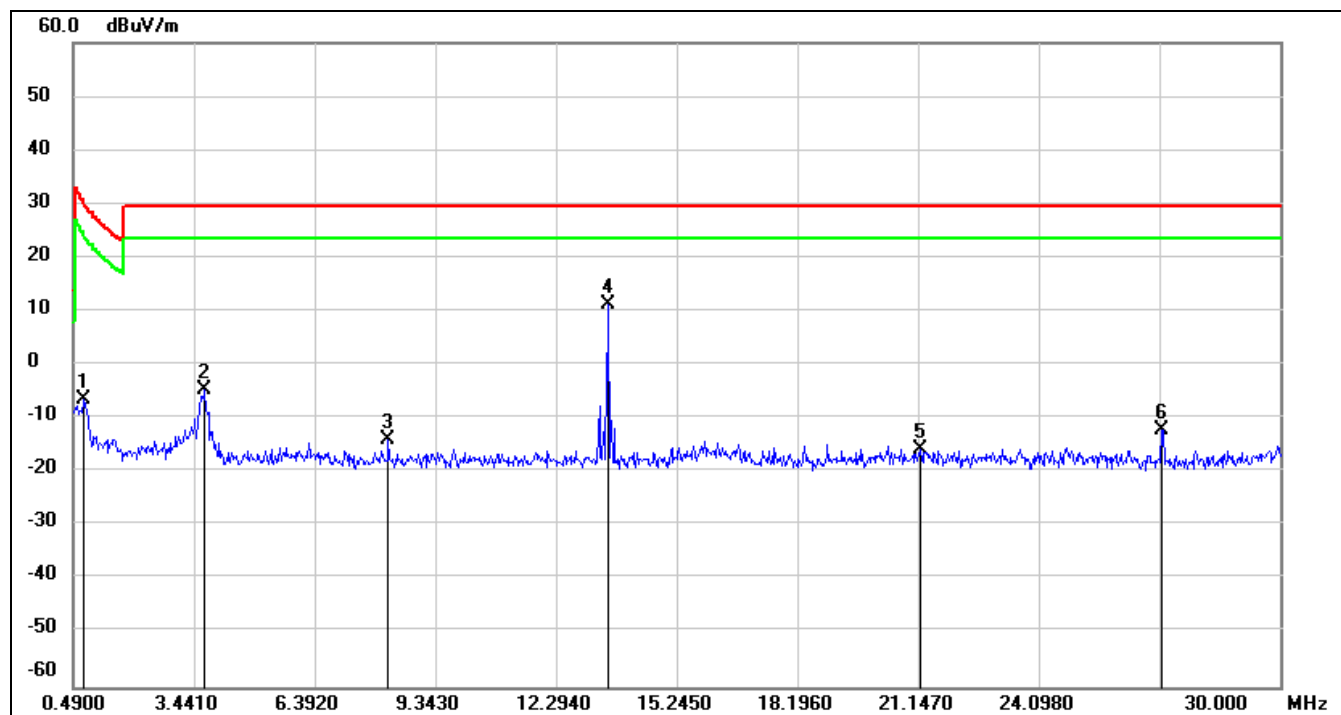
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. About the Fundamental emission test result please refer to section 7.1.

490kHz ~ 30MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.7556	46.33	-52.73	-6.40	30.04	-36.44	peak
2	3.7066	46.66	-51.40	-4.74	29.54	-34.28	peak
3	8.1921	37.23	-51.26	-14.03	29.54	-43.57	peak
4	13.5629	/	/	/	/	/	/
5	21.2060	34.53	-50.24	-15.71	29.54	-45.25	peak
6	27.1080	37.98	-50.00	-12.02	29.54	-41.56	peak

Note: 1. Measurement = Reading Level + Correct Facto

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. About the Fundamental emission test result please refer to section 7.1.

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

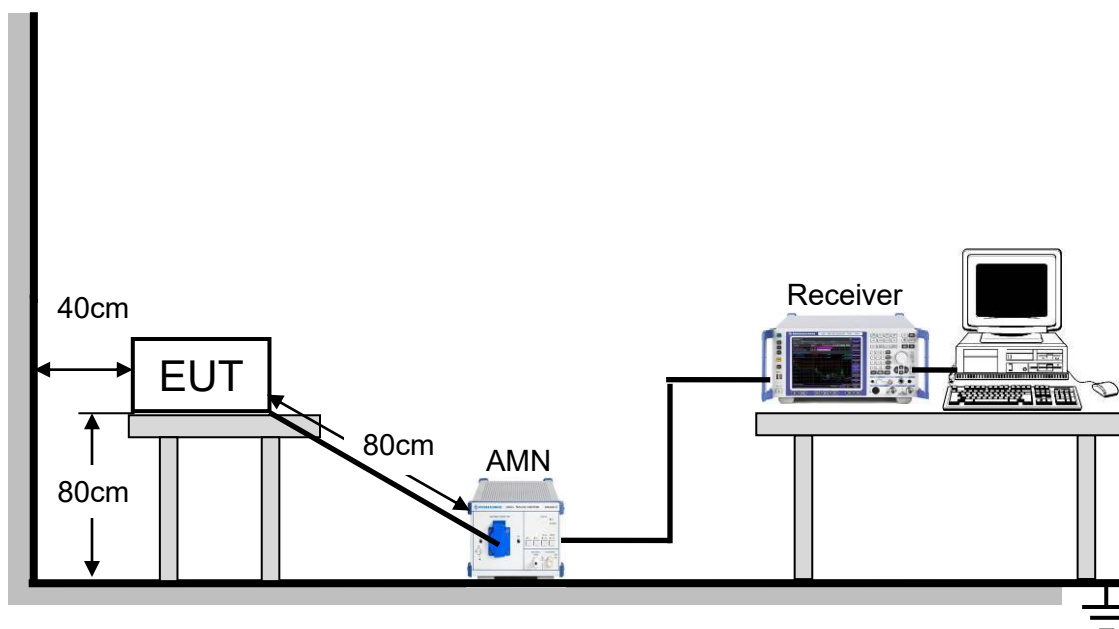
Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

TEST SETUP AND PROCEDURE



The following table is the setting of the receiver

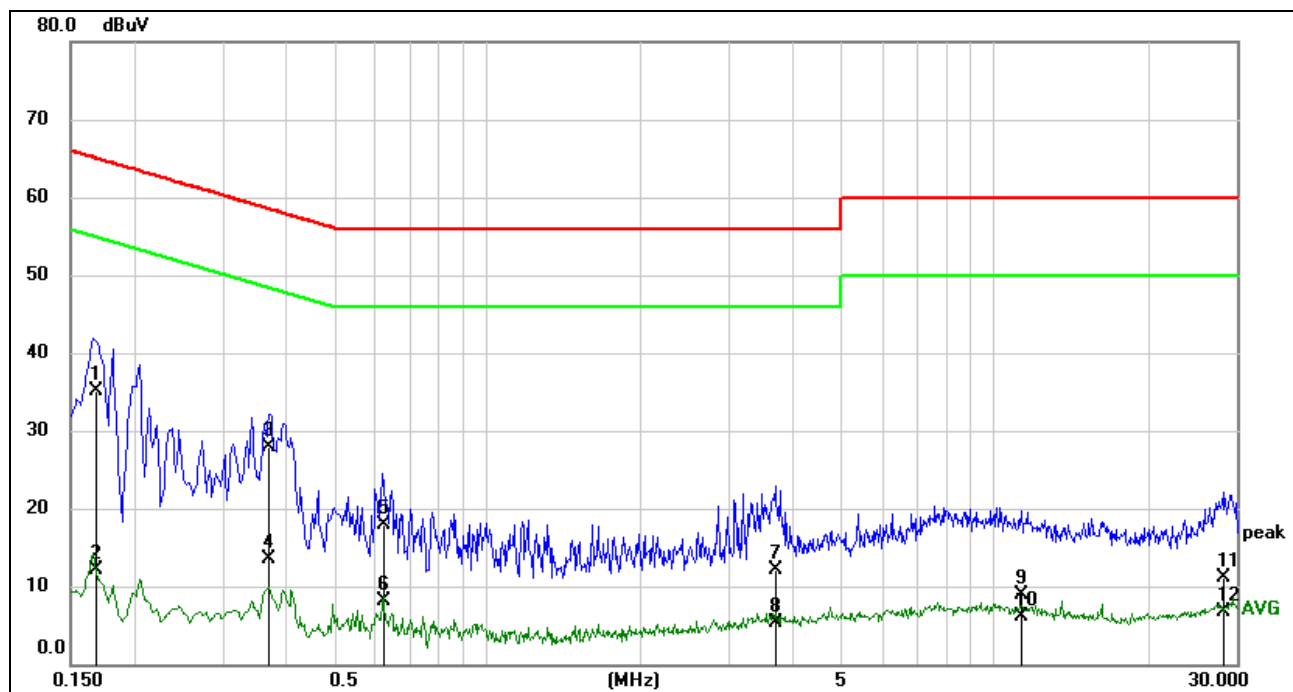
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

1. The testing follows the guidelines in ANSI C63.10-2020.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. LISN at least 80 cm from nearest part of EUT chassis.
6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
7. The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

Temperature	22.3°C	Relative Humidity	52%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

LINE N RESULTS with modified sample (transmitter terminated into a dummy load)

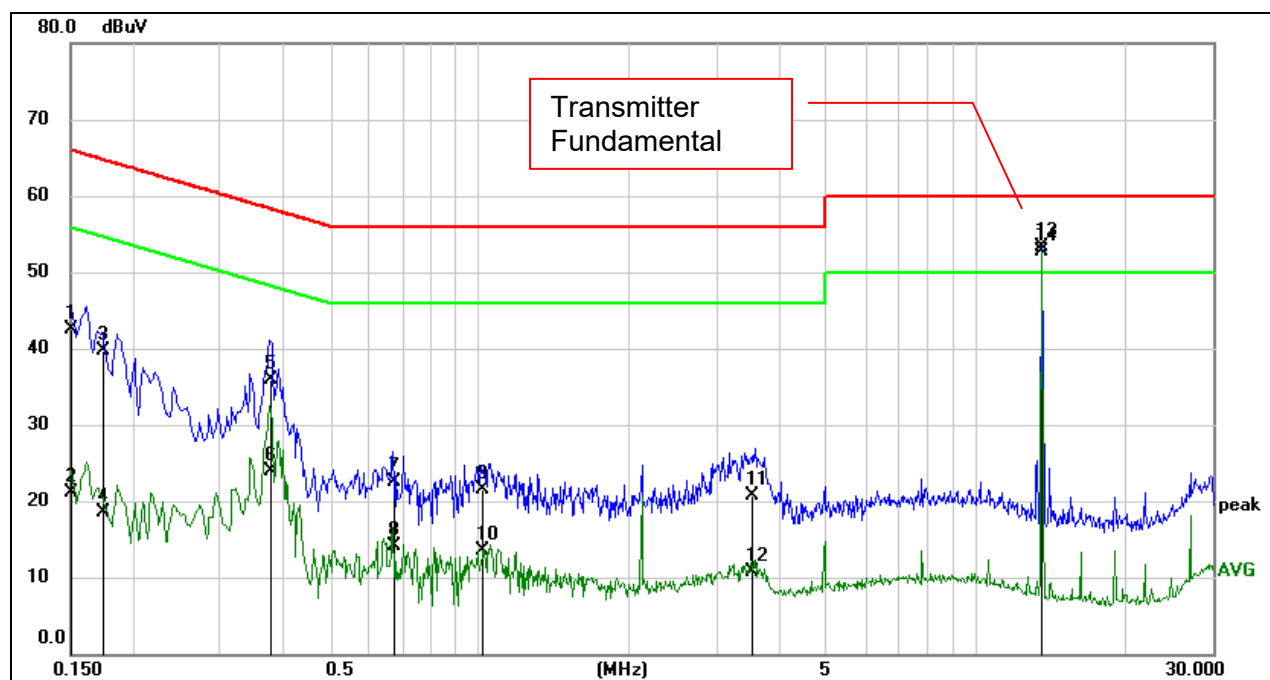


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1686	25.60	9.57	35.17	65.03	-29.86	QP
2	0.1686	2.50	9.57	12.07	55.03	-42.96	AVG
3	0.3704	18.31	9.64	27.95	58.49	-30.54	QP
4	0.3704	3.84	9.64	13.48	48.49	-35.01	AVG
5	0.6258	8.25	9.70	17.95	56.00	-38.05	QP
6	0.6258	-1.66	9.70	8.04	46.00	-37.96	AVG
7	3.6744	2.09	9.98	12.07	56.00	-43.93	QP
8	3.6744	-4.69	9.98	5.29	46.00	-40.71	AVG
9	11.2810	-1.32	10.23	8.91	60.00	-51.09	QP
10	11.2810	-4.03	10.23	6.20	50.00	-43.80	AVG
11	28.2005	0.97	10.21	11.18	60.00	-48.82	QP
12	28.2005	-3.46	10.21	6.75	50.00	-43.25	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

LINE N RESULTS with unmodified sample (antenna present)

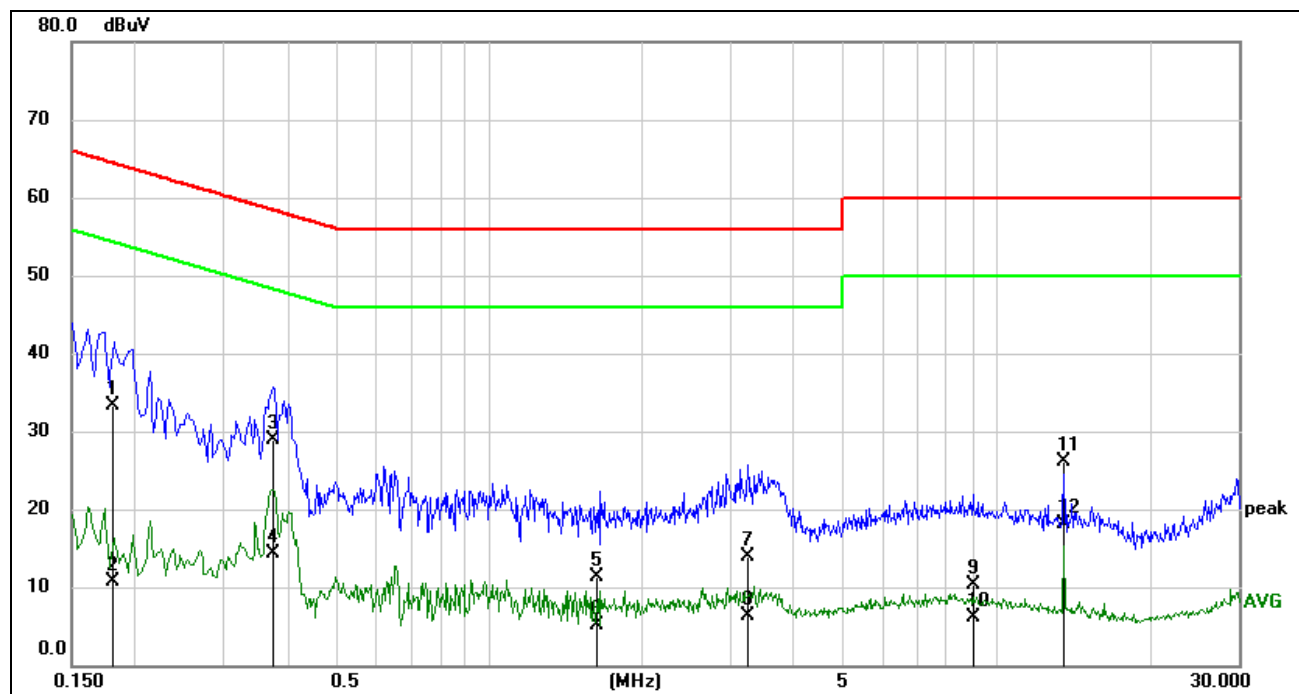


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1504	32.90	9.57	42.47	65.98	-23.51	QP
2	0.1504	11.52	9.57	21.09	55.98	-34.89	AVG
3	0.1748	30.10	9.57	39.67	64.73	-25.06	QP
4	0.1748	8.89	9.57	18.46	54.73	-36.27	AVG
5	0.3803	26.28	9.64	35.92	58.27	-22.35	QP
6	0.3803	14.36	9.64	24.00	48.27	-24.27	AVG
7	0.6741	12.84	9.71	22.55	56.00	-33.45	QP
8	0.6741	4.38	9.71	14.09	46.00	-31.91	AVG
9	1.0193	11.76	9.65	21.41	56.00	-34.59	QP
10	1.0193	3.79	9.65	13.44	46.00	-32.56	AVG
11	3.5482	10.68	9.95	20.63	56.00	-35.37	QP
12	3.5482	0.71	9.95	10.66	46.00	-35.34	AVG
13	13.5620	42.99	10.22	53.21	/	/	fundamental
14	13.5620	42.48	10.22	52.70	/	/	fundamental

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

LINE L RESULTS with modified sample (transmitter terminated into a dummy load)

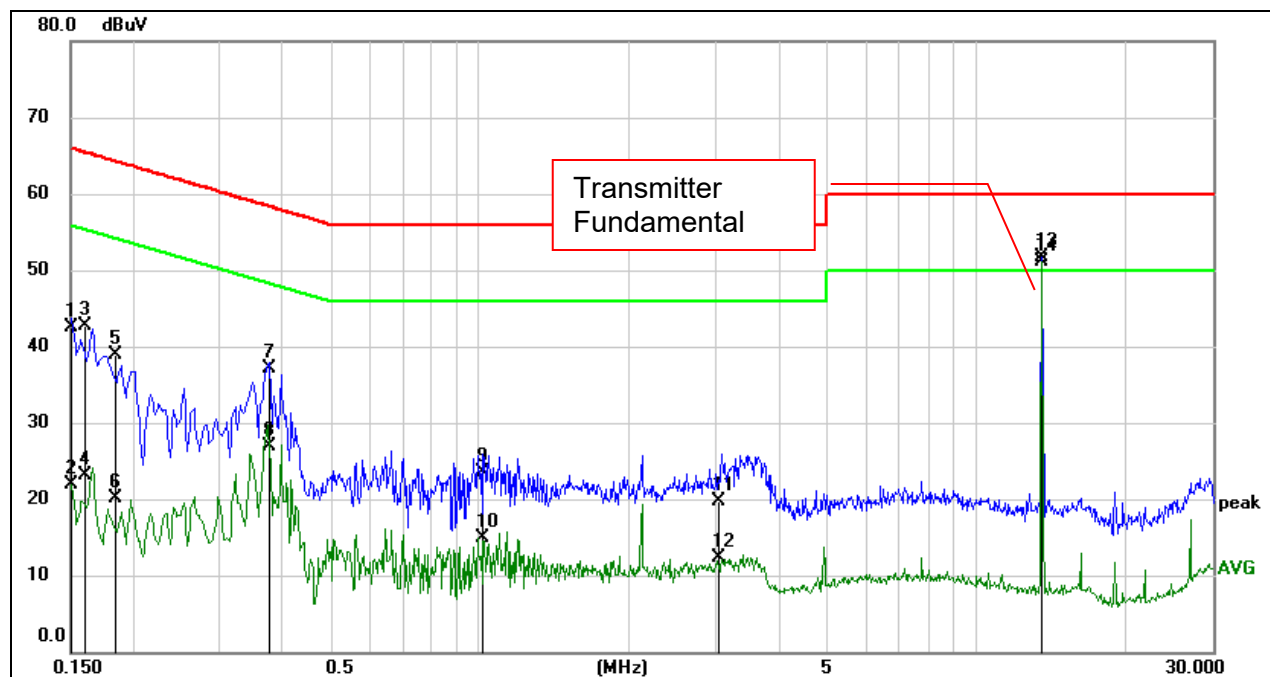


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1802	23.56	9.75	33.31	64.48	-31.17	QP
2	0.1802	0.98	9.75	10.73	54.48	-43.75	AVG
3	0.3757	19.26	9.74	29.00	58.37	-29.37	QP
4	0.3757	4.64	9.74	14.38	48.37	-33.99	AVG
5	1.6307	1.34	9.90	11.24	56.00	-44.76	QP
6	1.6307	-4.72	9.90	5.18	46.00	-40.82	AVG
7	3.2406	3.90	10.05	13.95	56.00	-42.05	QP
8	3.2406	-3.72	10.05	6.33	46.00	-39.67	AVG
9	8.9564	0.28	10.09	10.37	60.00	-49.63	QP
10	8.9564	-3.92	10.09	6.17	50.00	-43.83	AVG
11	13.5599	15.86	10.23	26.09	/	/	fundamental
12	13.5599	7.95	10.23	18.18	/	/	fundamental

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

LINE L RESULTS with unmodified sample (antenna present)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1508	32.67	9.87	42.54	65.96	-23.42	QP
2	0.1508	11.95	9.87	21.82	55.96	-34.14	AVG
3	0.1611	32.92	9.83	42.75	65.41	-22.66	QP
4	0.1611	13.22	9.83	23.05	55.41	-32.36	AVG
5	0.1858	29.20	9.73	38.93	64.22	-25.29	QP
6	0.1858	10.38	9.73	20.11	54.22	-34.11	AVG
7	0.3774	27.35	9.74	37.09	58.34	-21.25	QP
8	0.3774	17.15	9.74	26.89	48.34	-21.45	AVG
9	1.0199	13.67	9.85	23.52	56.00	-32.48	QP
10	1.0199	5.06	9.85	14.91	46.00	-31.09	AVG
11	3.0368	9.74	10.03	19.77	56.00	-36.23	QP
12	3.0368	2.29	10.03	12.32	46.00	-33.68	AVG
13	13.5620	41.42	10.23	51.65	/	/	fundamental
14	13.5620	40.89	10.23	51.12	/	/	fundamental

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

RESULTS

Complies

END OF REPORT