

# **FCC Test Report**

Report No.: RFBCUG-WTW-P22010682D-5

FCC ID: B32UX7002W

Test Model: UX700-ML-2

**Received Date: 2022/12/16** 

Test Date: 2023/3/3 ~ 2023/3/31

**Issued Date: 2023/4/18** 

Applicant: Verifone, Inc.

Address: 1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN

FCC Registration / 788550 / TW0003

**Designation Number:** 





This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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# **Release Control Record**

Issue No.	Description	Date Issued
RFBCUG-WTW-P22010682D-5	Original release	2023/4/18

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# 1 Certificate of Conformity

Product: Point of Sale Terminal

Brand: Verifone

Test Model: UX700-ML-2

Sample Status: Engineering sample

Applicant: Verifone, Inc.

**Test Date:** 2023/3/3 ~ 2023/3/31

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.225)

47 CFR FCC Part 15, Subpart C (Section 15.215)

ANSI C63.10-2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :	Girna Wu	いれん いん, Date:		
	Gina Liu / Specialist			

Jeremy Lin / Project Engineer



# 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.225, 15.215)					
FCC Clause	Test Item	Result	Remarks		
15.207	Conducted emission test	Pass	Meet the requirement of limit. Minimum passing margin is -13.38dB at 13.55800MHz		
15.225 (a)	The field strength of any emissions within the band 13.553-13.567 MHz	Pass	Meet the requirement of limit.  Minimum passing margin is -39.0dB at 13.56MHz.		
15.225 (b)	The field strength of any emissions within the bands 13.410-13.553 MHz and 13.567-13.710 MHz	Pass	Meet the requirement of limit.		
15.225 (c)	The field strength of any emissions within the bands 13.110-13.410 MHz and 13.710-14.010 MHz	Pass	Meet the requirement of limit.		
15.225 (d)	The field strength of any emissions appearing outside of the 13.110-14.010 MHz band	Pass	Meet the requirement of limit. Minimum passing margin is -6.1dB at 48.43MHz.		
15.225 (e)	The frequency tolerance	Pass	Meet the requirement of limit.		
15.215 (c)	20dB Bandwidth	Pass	Meet the requirement of limit.		

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

# 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

=		
Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
	9kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.93 dB
·	200MHz ~1000MHz	2.95 dB

# 2.2 Modification Record

There were no modifications required for compliance.



#### 3 General Information

# 3.1 General Description of EUT

Product	Point of Sale Terminal
Brand	Verifone
Test Model	UX700-ML-2
Sample Status	Engineering sample
Power Supply Rating	9-43Vdc, 2.4A-0.5A
Modulation Type	ASK
Operating Frequency	13.56MHz
	Type A: 106 kbit/s
Data Rate	Type B: 106 kbit/s
	Type F: 212/424 kbit/s
Field Strength	45.0dBuV/m (QP) (30m)
Antenna Type	Loop antenna
Accessory Device	Refer to external photo
Data Cable Supplied	Refer to external photo

#### Note:

- 1. The accessory devices of EUT, please refer to external photo.
- 2. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.
- 3. 2.4GHz & BT or 5GHz & BT technology can transmit at same time.
- 4. Spurious emission of the simultaneous operation (2.4GHz & BT or 5GHz & BT) has been evaluated and no non-compliance was found.

# 3.2 Description of Test Modes

1 channel is provided to this EUT

Channel	Freq. (MHz)
1	13.56



### 3.2.1 Test Mode Applicability and Tested Channel Deta

EUT Configure	Applicable to				Description	
Mode	RE	PLC	FS	EB	Description	
А	$\checkmark$	$\sqrt{}$	$\sqrt{}$	√	EUT + 2AAAJ012F US adapter	
В	$\checkmark$	$\checkmark$	-	-	EUT + 2ABL018F US adapter	

Where

RE: Radiated Emission

PLC: Power Line Conducted Emission

FS: Frequency Stability

EB: 20dB Bandwidth measurement

#### Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane.

2. The EUT had been pre-tested on Type A, Type B and Type F. The worst case was found when data rate was Type B and chosen for final test.

#### **Radiated Emission Test:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A, B	1	1	ASK

#### **Power Line Conducted Emission Test:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT	Γ Configure Mode	Available Channel	Tested Channel	Modulation Type
	A. B	1	1	ASK

#### **Frequency Stability:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
Α	1	1	ASK

# 20dB Bandwidth:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
Α	1	1	ASK

### **Test Condition:**

Applicable to	Environmental Conditions	Input Power	Tested by	
RE	22 deg. C, 67% RH, 22 deg. C, 68% RH	120Vac, 60Hz	Thomas Cheng, Vincent Chen	
PLC	22.7 deg. C. 66.4% RH.		Thomas Cheng, Adair Peng	
FS	y '		Thomas Cheng	
BW	<b>BW</b> 22 deg. C, 61% RH		Thomas Cheng	

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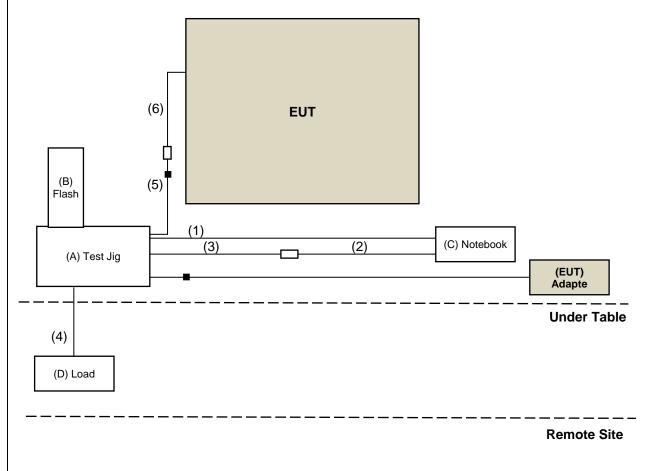
# 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	Test Jig	NA	NA	NA	NA	Provided by manufacturer
В	Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
С	Notebook	Lenovo	20J4 MD A003TW	PF-11H9AK	NA	Provided by Lab
D	Load	NA	NA	NA	NA	-

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1.0	Υ	0	Supplied by applicant
2	RS232 to A Cable	1	1.0	N	0	Provided by Lab
3	LAN to RS232 Cable	1	1.0	N	0	Supplied by applicant
4	LAN Cable	1	1.5	N	0	RJ45, Cat5e
5	USB Cable	1	1.5	Υ	1	Supplied by applicant
6	USB Cable	1	0.3	Υ	0	Supplied by applicant

# 3.3.1 Configuration of System under Test



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# 3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standard: FCC Part 15, Subpart C (15.225) FCC Part 15, Subpart C (15.215) ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

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# **Test Types and Results**

#### **Radiated Emission Measurement**

#### **Limits of Radiated Emission Measurement** 4.1.1

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

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.

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.

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.

gorioral radiated emission milito in §		
Frequencies (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
Above 960	500	3

#### Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, the field strength limits are based on average detector, however, the 3. peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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# 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 27, 2022	Apr. 26, 2023
Signal Analyzer Agilent	N9010A	MY52220207	Jan. 03, 2023	Jan. 02, 2024
Loop Antenna TESEQ	HLA 6121	45745	Jul. 27, 2022	Jul. 26, 2023
Pre-amplifier EMCI	EMC001340	980201	Sep. 23, 2022	Sep. 22, 2023
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	Jan. 07, 2023	Jan. 06, 2024
Preamplifier EMCI	EMC 330H	980112	Oct. 01, 2022	Sep. 30, 2023
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Oct. 21, 2022	Oct. 20, 2023
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 01, 2022	Sep. 30, 2023
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 13, 2022	Nov. 12, 2023
Preamplifier EMCI	EMC 012645	980115	Oct. 01, 2022	Sep. 30, 2023
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	171005	Oct. 01, 2022	Sep. 30, 2023
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 01, 2022	Sep. 30, 2023
RF FLITER MICRO-TRONICS	BRM50716	060	Jan. 11, 2023	Jan. 10, 2024
RF FLITER MICRO-TRONICS	BRM17690	004	Jan. 11, 2023	Jan. 10, 2024
Pre-Amplifier EMCI	EMC 184045	980116	Oct. 01, 2022	Sep. 30, 2023
Broadband Horn Antenna SCHWARZBECK	BBHA 9170	148	Nov. 13, 2022	Nov. 12, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Jul. 09, 2022	Jul. 08, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Jul. 09, 2022	Jul. 08, 2023
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-440H	AT93021705	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller Max-Full	MF-7802	NA	NA	NA
Boresight antenna tower fixture BV	BAF-02	7	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

<sup>2.</sup> The test was performed in HY - 966 chamber 5.



#### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz-90 kHz, 110 kHz-490 kHz) set to average detect function and peak detect function.

#### Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz at frequency band (9kHz-150kHz) and 9kHz at frequency below 30MHz (except 9kHz-150kHz).
- There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

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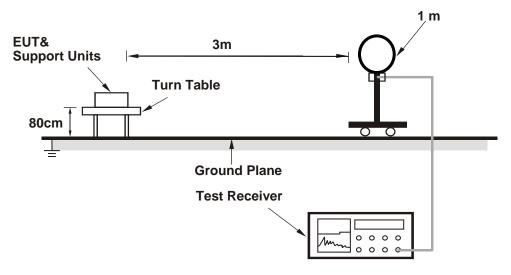


#### 4.1.4 Deviation from Test Standard

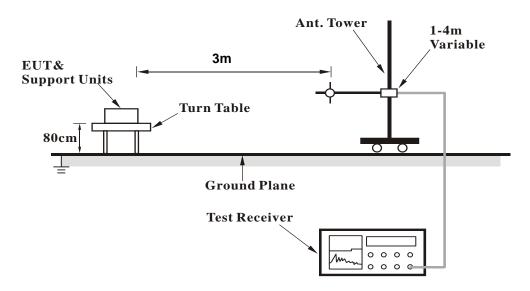
No deviation.

#### 4.1.5 Test Set Up

#### For Radiated emission below 30MHz



#### For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

KDB 414788 OFS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
- Parallel-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

# 4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.

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#### 4.1.7 Test Results

# Type B

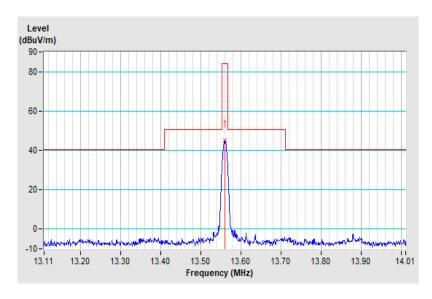
EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
<b>Environmental Conditions</b>	22°C, 67% RH	Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Parallel at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*13.56	45.0 QP	84.0	-39.0	1.00	2	63.2	-18.2	

#### Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " \* ": Fundamental frequency.
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)



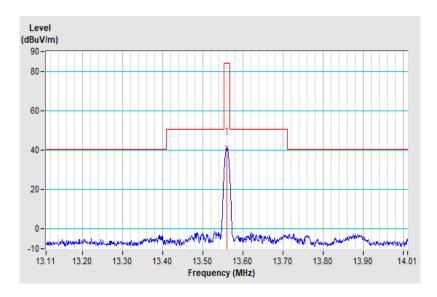


EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
<b>Environmental Conditions</b>	22°C, 67% RH	Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Perpendicular at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*13.56	41.3 QP	84.0	-42.7	1.00	85	59.5	-18.2	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " \* ": Fundamental frequency.
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)



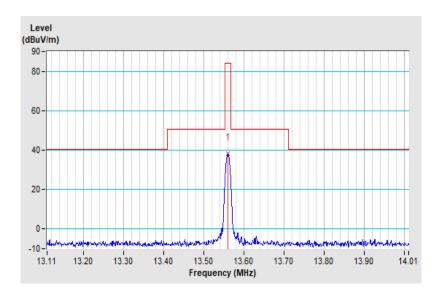


EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
<b>Environmental Conditions</b>	22°C, 67% RH	Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	*13.56	38.3 QP	84.0	-45.7	1.00	181	56.5	-18.2	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. " \* ": Fundamental frequency.
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

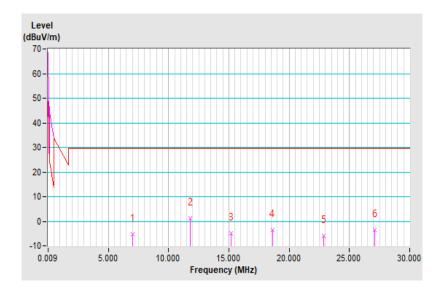




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 30MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	22°C, 67% RH	Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Parallel at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7.03	-5.1 QP	29.5	-34.6	1.00	17	14.2	-19.3
2	11.83	1.1 QP	29.5	-28.4	1.00	161	19.3	-18.2
3	15.21	-5.0 QP	29.5	-34.5	1.00	8	13.1	-18.1
4	18.60	-3.5 QP	29.5	-33.0	1.00	114	14.6	-18.1
5	22.86	-5.8 QP	29.5	-35.3	1.00	257	12.3	-18.1
6	27.12	-3.4 QP	29.5	-32.9	1.00	45	14.7	-18.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

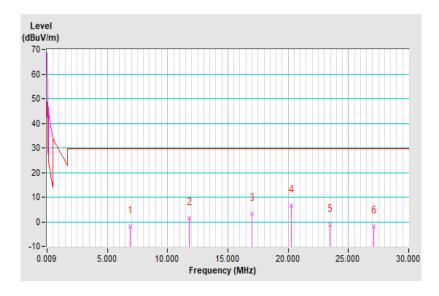




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 30MHz	
Input Power	Input Power 120Vac, 60Hz		Quasi-Peak	
Environmental Conditions 22°C, 67% RH		Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Perpendicular at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6.88	-2.0 QP	29.5	-31.5	1.00	359	17.4	-19.4
2	11.83	1.4 QP	29.5	-28.1	1.00	28	19.6	-18.2
3	16.98	3.1 QP	29.5	-26.4	1.00	220	21.2	-18.1
4	20.25	6.7 QP	29.5	-22.8	1.00	348	24.8	-18.1
5	23.46	-1.2 QP	29.5	-30.7	1.00	2	16.9	-18.1
6	27.12	-1.7 QP	29.5	-31.2	1.00	60	16.4	-18.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

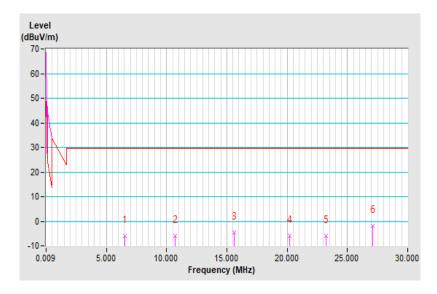




EUT Test Condition		Measurement Detail		
Channel 1		Frequency Range	Below 30MHz	
Input Power	Input Power 120Vac, 60Hz		Quasi-Peak	
Environmental Conditions	22°C, 67% RH	Tested By	Thomas Cheng	

	Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6.52	-5.8 QP	29.5	-35.3	1.00	207	13.7	-19.5
2	10.69	-5.9 QP	29.5	-35.4	1.00	203	12.3	-18.2
3	15.63	-4.7 QP	29.5	-34.2	1.00	179	13.4	-18.1
4	20.22	-6.0 QP	29.5	-35.5	1.00	177	12.1	-18.1
5	23.25	-6.0 QP	29.5	-35.5	1.00	8	12.1	-18.1
6	27.12	-1.9 QP	29.5	-31.4	1.00	340	16.2	-18.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + Distance conversion factor.
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value.
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

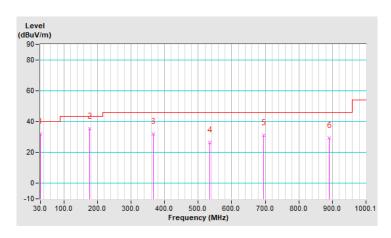




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 1000MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	22°C, 68% RH	Tested By	Thomas Cheng	
Test Mode	A			

	Antenna Polarity & Test Distance: Horizontal at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	32.0 QP	40.0	-8.0	2.00 H	233	44.7	-12.7
2	176.49	35.2 QP	43.5	-8.3	2.00 H	216	48.8	-13.6
3	365.65	32.1 QP	46.0	-13.9	1.50 H	344	42.3	-10.2
4	535.42	26.4 QP	46.0	-19.6	2.00 H	318	32.7	-6.3
5	694.52	31.1 QP	46.0	-14.9	2.00 H	321	34.9	-3.8
6	890.48	29.3 QP	46.0	-16.7	1.01 H	120	30.4	-1.1

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value

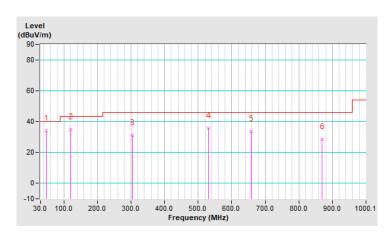




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 1000MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
<b>Environmental Conditions</b>	22°C, 68% RH	Tested By	Thomas Cheng	
Test Mode	A			

	Antenna Polarity & Test Distance: Vertical at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	33.9 QP	40.0	-6.1	1.50 V	268	46.1	-12.2
2	119.25	34.8 QP	43.5	-8.7	1.00 V	286	49.1	-14.3
3	304.54	31.3 QP	46.0	-14.7	2.00 V	227	42.9	-11.6
4	531.54	35.7 QP	46.0	-10.3	1.00 V	324	41.9	-6.2
5	658.62	33.8 QP	46.0	-12.2	1.50 V	160	38.2	-4.4
6	869.14	28.4 QP	46.0	-17.6	1.00 V	166	29.8	-1.4

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value

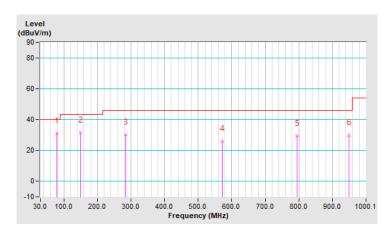




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 1000MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	22°C, 68% RH	Tested By	Vincent Chen	
Test Mode	В			

	Antenna Polarity & Test Distance: Horizontal at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	78.50	31.1 QP	40.0	-8.9	1.50 H	36	47.5	-16.4
2	149.32	31.5 QP	43.5	-12.0	2.00 H	190	43.9	-12.4
3	285.14	30.3 QP	46.0	-15.7	1.50 H	174	42.3	-12.0
4	572.29	26.0 QP	46.0	-20.0	1.00 H	2	32.0	-6.0
5	794.44	29.5 QP	46.0	-16.5	1.00 H	2	31.1	-1.6
6	948.68	29.7 QP	46.0	-16.3	1.00 H	68	30.1	-0.4

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value

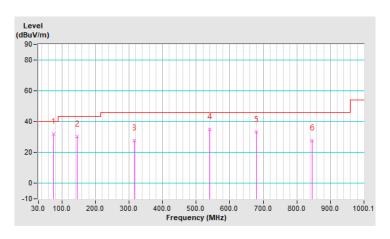




EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	Below 1000MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	22°C, 68% RH	Tested By	Vincent Chen	
Test Mode	В			

	Antenna Polarity & Test Distance: Vertical at 3 m										
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	75.59	31.9 QP	40.0	-8.1	1.99 V	2	47.5	-15.6			
2	144.47	30.3 QP	43.5	-13.2	1.00 V	346	42.8	-12.5			
3	316.18	27.9 QP	46.0	-18.1	1.99 V	2	39.2	-11.3			
4	541.24	34.9 QP	46.0	-11.1	1.00 V	304	41.2	-6.3			
5	679.00	33.3 QP	46.0	-12.7	1.00 V	324	37.2	-3.9			
6	844.88	27.6 QP	46.0	-18.4	1.99 V	49	29.1	-1.5			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 4. Margin value = Emission Level Limit value





# 4.2 Conducted Emission Measurement

# 4.2.1 Limits of Conducted Emission Measurement

Fraguency (MHz)	Conducted Limit (dBuV)				
Frequency (MHz)	Quasi-peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30.0	60	50			

Note: 1. The lower limit shall apply at the transition frequencies.

#### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 05, 2022	Dec. 04, 2023
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 07, 2023	Jan. 06, 2024
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Mar. 14, 2022	Mar. 13, 2023
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 12, 2022	Sep. 11, 2023
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HY Conduction 1.
- 3. The VCCI Site Registration No. is C-12040.

<sup>2.</sup> The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



#### 4.2.3 Test Procedures

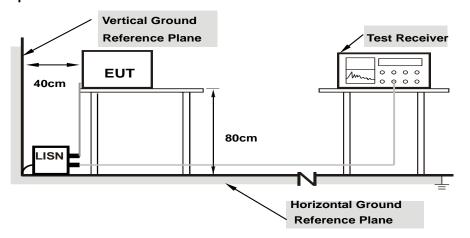
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

# 4.2.6 EUT Operating Conditions

Same as 4.1.6.

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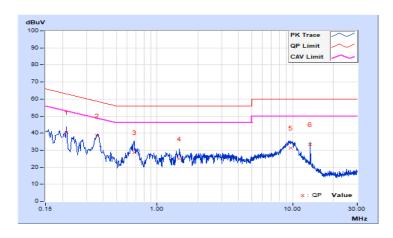
# 4.2.7 Test Results

# Type B

Phase	Line (L)	I DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

Freq		Corr.	Reading Value Emission Level Limit		Margin					
No	lo Freq. Factor		[dB (uV)]		[dB	(uV)] [dB		(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21400	9.66	30.64	19.08	40.30	28.74	63.05	53.05	-22.75	-24.31
2	0.36162	9.68	28.60	20.17	38.28	29.85	58.69	48.69	-20.41	-18.84
3	0.67800	9.70	19.04	14.39	28.74	24.09	56.00	46.00	-27.26	-21.91
4	1.46200	9.72	15.06	7.55	24.78	17.27	56.00	46.00	-31.22	-28.73
5	9.71335	9.83	21.37	14.16	31.20	23.99	60.00	50.00	-28.80	-26.01
6	13.55800	9.85	23.53	23.11	33.38	32.96	60.00	50.00	-26.62	-17.04

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

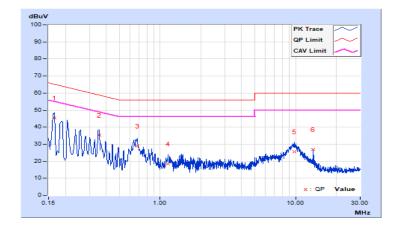




Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

Freq		Corr.	Readin	g Value	Emissio	n Level	Limit		Margin	
No	lo Freq. Factor		[dB (uV)]		[dB	dB (uV)] [dB		(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16535	9.65	35.77	16.42	45.42	26.07	65.19	55.19	-19.77	-29.12
2	0.35400	9.68	25.68	11.66	35.36	21.34	58.87	48.87	-23.51	-27.53
3	0.67800	9.70	19.20	13.51	28.90	23.21	56.00	46.00	-27.10	-22.79
4	1.14962	9.71	8.72	2.98	18.43	12.69	56.00	46.00	-37.57	-33.31
5	9.83400	9.83	15.75	7.55	25.58	17.38	60.00	50.00	-34.42	-32.62
6	13.55800	9.87	16.93	8.86	26.80	18.73	60.00	50.00	-33.20	-31.27

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

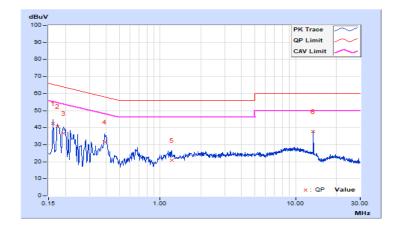




Phase	Line (L)	LIDETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

Frog		Corr.	Readin	g Value	Emissio	n Level	Lir	Limit		Margin	
No	o Freq. Factor		[dB (uV)]		[dB	(uV)]	[dB	(uV)]	(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16200	10.19	32.13	17.14	42.32	27.33	65.36	55.36	-23.04	-28.03	
2	0.17400	10.19	30.42	18.03	40.61	28.22	64.77	54.77	-24.16	-26.55	
3	0.19400	10.21	26.58	11.90	36.79	22.11	63.86	53.86	-27.07	-31.75	
4	0.39000	10.23	21.52	18.17	31.75	28.40	58.06	48.06	-26.31	-19.66	
5	1.21400	10.27	10.59	5.44	20.86	15.71	56.00	46.00	-35.14	-30.29	
6	13.55800	10.53	27.03	26.09	37.56	36.62	60.00	50.00	-22.44	-13.38	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

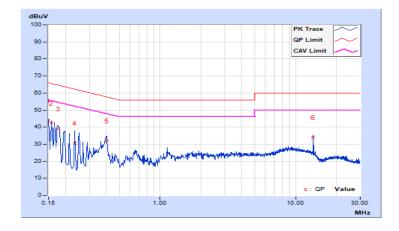




Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

Freq		Corr.	Readin	g Value	Emissio	n Level	Limit		Margin	
No	o Freq. Factor		[dB (uV)]		[dB	[dB (uV)] [dB		(uV)]	(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.17	33.54	17.96	43.71	28.13	66.00	56.00	-22.29	-27.87
2	0.15800	10.18	32.35	17.45	42.53	27.63	65.57	55.57	-23.04	-27.94
3	0.17800	10.19	28.95	15.55	39.14	25.74	64.58	54.58	-25.44	-28.84
4	0.23400	10.22	20.31	5.21	30.53	15.43	62.31	52.31	-31.78	-36.88
5	0.40180	10.24	21.91	18.39	32.15	28.63	57.82	47.82	-25.67	-19.19
6	13.55800	10.65	23.31	21.86	33.96	32.51	60.00	50.00	-26.04	-17.49

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.



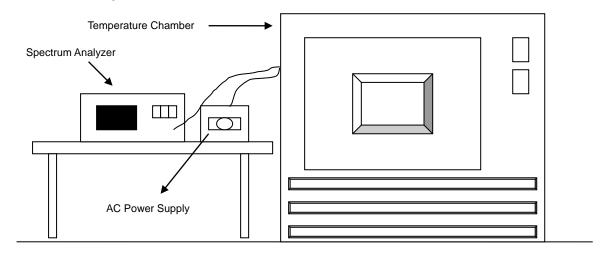


# 4.3 Frequency Stability

# 4.3.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within +/- 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.

# 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
AC Power Source ExTech	CFW-105	E000603	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2022	Jun. 22, 2023
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	Apr. 20, 2022	Apr. 19, 2023
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 27, 2022	Dec. 26, 2023

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



#### 4.3.4 Test Procedure

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turned the EUT on and coupled its output to a spectrum analyzer.
- c. Turned the EUT off and set the chamber to the highest temperature specified.
- d. Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step d with every 10 degrees reduction until the lowest temperature achieved.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

#### 4.3.5 Deviation fromTest Standard

No deviation.

# 4.3.6 EUT Operating Conditions

Same as Item 4.1.6.

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# 4.3.7 Test Result

# Type B

Frequency Stability Versus Temp.									
		0 Minute		2 Minute		5 Minute		10 Minute	
Temp. (°C)	Power Supply (Vac)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	120	13.56001	0.00007	13.56001	0.00007	13.56001	0.00007	13.56002	0.00015
40	120	13.55994	-0.00044	13.55994	-0.00044	13.55994	-0.00044	13.55994	-0.00044
30	120	13.55998	-0.00015	13.55999	-0.00007	13.55999	-0.00007	13.56	0.00000
20	120	13.55999	-0.00007	13.56	0.00000	13.56001	0.00007	13.56	0.00000
10	120	13.55997	-0.00022	13.55997	-0.00022	13.55996	-0.00029	13.55997	-0.00022
0	120	13.55994	-0.00044	13.55995	-0.00037	13.55996	-0.00029	13.55996	-0.00029
-10	120	13.56002	0.00015	13.56003	0.00022	13.56003	0.00022	13.56004	0.00029
-20	120	13.56006	0.00044	13.56007	0.00052	13.56006	0.00044	13.56005	0.00037

Frequency Stability Versus Voltage									
		0 Minute		2 Minute		5 Minute		10 Minute	
Temp. (°C)	Power Supply (Vac)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
	138	13.55999	-0.00007	13.56	0.00000	13.56001	0.00007	13.56	0.00000
20	120	13.55999	-0.00007	13.56	0.00000	13.56001	0.00007	13.56	0.00000
	102	13.55999	-0.00007	13.56	0.00000	13.56001	0.00007	13.56	0.00000

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#### 4.4 20dB Bandwidth

# 4.4.1 Limits of 20dB Bandwidth Measurement

The 20dB bandwidth shall be specified in operating frequency band.

#### 4.4.2 Test Setup



# 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.4.4 Test Procedures

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1kHz RBW and 3kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### 4.4.5 Deviation from Test Standard

No deviation.

# 4.4.6 EUT Operating Conditions

Same as Item 4.1.6.

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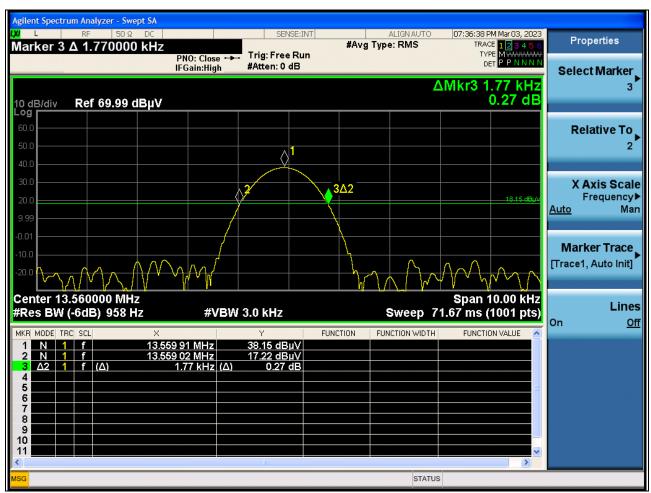
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### 4.4.7 Test Results

#### Type B

20dBc point (Low) (MHz)	20dBc point (High) (MHz)	Operating frequency band (MHz)	Pass / Fail	
13.55902	13.56079	13.553~13.567	Pass	



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.



5 Pictures of Test Arrangements
Please refer to the attached file (Test Setup Photo).

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# Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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