	BUREAU VERITAS
	FCC Test Report
Report No.:	RFBASM-WTW-P21071003-4
FCC ID:	QYLPN7150Z11
Test Model:	ZX10 PN7150
Received Date:	Jul. 28, 2021
Test Date:	Aug. 31, 2021
Issued Date:	Nov. 19, 2021
Applicant:	Getac Technology Corporation.
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Test Location (2):	No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
FCC Registration / Designation Number (1):	788550 / TW0003
FCC Registration / Designation Number (2):	281270 / TW0032
	Tac-MRA Testing Laboratory 2021
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unless specifically and expressly noted. provided to us. You have 60 days from however, that such notice shall be in writ shall constitute your unqualified acceptar	Our report includes all of the tests requested by you and the results thereof based upon the information that you date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, ing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time to of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific thas been explicitly taken into account to declare the compliance or non-compliance to the specification.



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Release Control Record Description Date Issued Issue No. RFBASM-WTW-P21071003-4 Nov. 19, 2021 Original release

Certificate of Conformity 1

Product:	ZX10 PN7150 NFC Module
Brand:	Getac
Test Model:	ZX10 PN7150
Sample Status:	Identical Prototype
Applicant:	Getac Technology Corporation.
Test Date:	Aug. 31, 2021
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 :

Polly Chien / Specialist , Date: Nov. 19, 2021

Jeremy Lin

Date: Nov. 19, 2021

Approved by :

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	207 Conducted emission test P		Meet the requirement of limit. Minimum passing margin is -2.16dB at 13.56200MHz.				
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 -70.6dB 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 -19.0dB at 135.45MHz.				
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	3.00 dB		
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.91 dB		
	200MHz ~1000MHz	2.93 dB		

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	ZX10 PN7150 NFC Module			
Brand	Getac			
Model	ZX10 PN7150			
Sample Status	Identical Prototype			
	End-product :			
Power Supply Rating	19Vdc (from adapter)			
	3.84Vdc (from battery)			
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	13.4dBuV/m (QP) (30m)			
Antenna Type	Loop antenna			
Antenna Connector	NA			
Accessory Device	Refer to note			
Cable Supplied	Refer to note			

Note:

1. The EUT is authorized for use in specific End-product. The model of the ZX10 was chosen for final test.

Product	Brand	Model	Description
Tablet	Getac	ZX10 ZX10Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, " - ", " _ ", " / ", " \ " or blank for marketing purpose and no impact safety related critical components and constructions.)	For marketing purpose

2. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	FSP	FSP065-RBBN3	I/P: 100-240 Vac, 50-60Hz, 1.5 A O/P: 19.0 Vdc, 3.42 A 1.47m non-shielded cable with 1 core
Battery 1	Getac	BP1S2P4990B	Rating: 3.84Vdc, 9740mAh, 37.4Wh Typical Capacity: 9980mAh, 38.32Wh
Battery 2	Getac	BP1S1P4990B	Rating: 3.84Vdc, 4870mAh, 18.7Wh Typical Capacity: 4990mAh, 19.16Wh
Power cord	I-SHENG ELECTRIC WIRE & CABLE CO., LTD.	SP-305B+IS-034	1.7M
Touch pen	Getac	N52 Magnet	N/A

* After the pretesting battery, battery 2 mode is found to be the worst case and therefore had been chosen for final test.

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



	.			Configuration			
Part	Brand	Model	Note	1	2	3	4
CPU	Qualcomm	SDA 660	-	V	V	V	V
Memory	Samsung	KM3V6001CM-B705	4GB	V	V	V	V
VIDEO CONTROLLER	Qaulcomm	Adreno GU 512	-	V	V	V	V
eMMC Storage	Samsung	-	64GB	V	V	V	V
DISPLAY	AUO	G101UAN2.0	-	V	V	V	V
Touch Screen	EETI	EXC80H60	-	V	V	V	V
Real Camera	Unison	MV21A6A1-TF5D	16M PLCC MIPI	V	V	V	V
Front Camera	Unison	MV2980A1-TF4R-P	8M PLCC MIPI	V	V	V	V
WWAN	Sierra	EM7511	-	V	V	V	V
WLAN/BT	Qualcomm	WCN3990	-	V	V	V	V
HF-RFID	Getac	PN7150	-	V	V	V	V
GPS	Locosys	MC-1010-V2B	-	V	V	V	V
Barcode Reader	Honeywell	N6703SR-W5-103	-	V	V	V	V
Smart Card Option Bay	Alcor	AU9560-GBS-GR	-			V	V
Normal capacity battery	Getac	BP1S1P4990B	BYD Cell, CSL595490HPlus	V		V	
High capacity battery	Getac	BP1S2P4990B	BYD Cell, CSL595490HPlus		V		V

4. The End-product contains following configurations.

*After the pretesting, the configuration 3 is found to be the worst case and had been chosen for final test.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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 Detail

EUT	Configure		Applic	able to			Description
Ν	Vode	RE	PLC	FS	EB		Description
	-	\checkmark	\checkmark	\checkmark	\checkmark	-	
Nhere		adiated Emissio				Power Line Conducted	
	FS: Fr	equency Stabili	ty		EB: 2	0dB Bandwidth measu	rement
Note:							
	he FUT had	l been pre-teste	d on the positio	oned of each 3 a	axis The wors	at case was found when	positioned on Y-plane.
2. TI	he EUT had						rate was Type F and chosen for
fir	nal test.						
Radia	ted Emis	sion below 3	0MHz Test:				
						•	ossible combinations tenna diversity architecture
					•	as listed below.	terina diversity architecture
	EUT Configu			ble Channel		Tested Channel	Modulation Type
	_01 Coning(_		Availar	1		1	ASK
				•			hor
₹adia	ted Emis	sion above 3	BOMHz Test:				
一 F	Dre-Scan	has been co	nducted to a	latarmina the	worst_cas	e mode from all no	ossible combinations
						-	tenna diversity architecture
						as listed below.	
	EUT Configu			ole Channel		Tested Channel	Modulation Type
			, trailar	1		1	ASK
					•		•
owe	r Line Co	nducted Em	<u>ission Test:</u>				
K F	Pre-Scan	has been co	nducted to a	determine the	e worst-cas	e mode from all po	ossible combinations
							tenna diversity architecture
🛛 F	ollowing	channel(s) v	vas (were) s	elected for th	ne final test	as listed below.	·
E	EUT Config	ure Mode	Availab	ble Channel	-	Tested Channel	Modulation Type
	-			1		1	ASK
_	-						
requ	iency Sta	<u>bility:</u>					
🛛 F	Pre-Scan	has been co	nducted to a	determine the	e worst-cas	e mode from all po	ossible combinations
					•		tenna diversity architecture
🗹 F	ollowing	channel(s) v	vas (were) s	elected for th	ne final test	as listed below.	
E	EUT Config	ure Mode	Availab	ole Channel	-	Tested Channel	Modulation Type
	-			1		1	ASK
	Developing	и.					
Uab	Bandwid	<u>in:</u>					
							ossible combinations
						-	tenna diversity architecture
🖄 F	ollowing	channel(s) v	vas (were) s	elected for th	ne final test	as listed below.	
E	EUT Config	ure Mode	Availat	ole Channel		Tested Channel	Modulation Type
	-			1		1	ASK



Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu
PLC	23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng
FS	23 deg. C, 60% RH	3.84Vdc	Titan Hsu
BW	25 deg. C, 60% RH	120Vac, 60Hz	Titan Hsu

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.

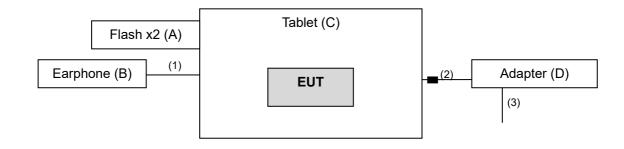
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
•	Flash	SanDisk	SDDDC3-032G	NA	NA	Туре-С
Α.	Flash	HP	v250W	05	NA	Туре-А
В.	Earphone	APPLE	MB770FE	NA	NA	-
C.	Tablet	Getac	ZX10	NA	NA	Provided by client
D.	Adapter	FSP	FSP065-RBBN3	NA	NA	Provided by client

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Audio cable	1	1.2	Ν	0	-
2.	Power cable	1	1.47	N	1	Provided by client
3.	Power cable	1	1.7	-	0	Provided by client

Note: The core(s) is(are) originally attached to the cable(s).

3.3.1 Configuration of System under Test



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:

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.



4 Test Types and Results

4.1 Radiated Emission Measurement

4.1.1 Limits of Radiated Emission Measurement

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 \S 15.209.

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).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the 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.



4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Rohde & Schwarz			, -	1 , -
Spectrum Analyzer KEYSIGHT	N9020B	MY60110440	Dec. 18, 2020	Dec. 17, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-1213	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	995	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980782	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC118A45SE	980808	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC184045SE	980788	Jan. 12, 2021	Jan. 11, 2022
RF signal cable	EMC104-SM-SM-(9	201243+ 201231+	Jan. 12, 2021	Jan. 11, 2022
EMCI	000+2000+1000)	210102	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMCCFD400-NM-N M-(9000+300+500)	201236+ 201235+ 201233	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMC101G-KM-KM- (5000+3000+2000)	201260+201257+20125 4	Jan. 12, 2021	Jan. 11, 2022
Software BV ADT	ADT_Radiated_V7. 6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Max-Full	MF-7802BS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208674	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 19, 2021	Jan. 18, 2022
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 11, 2021	Jan. 10, 2022

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 WM Chamber 8.



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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 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.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

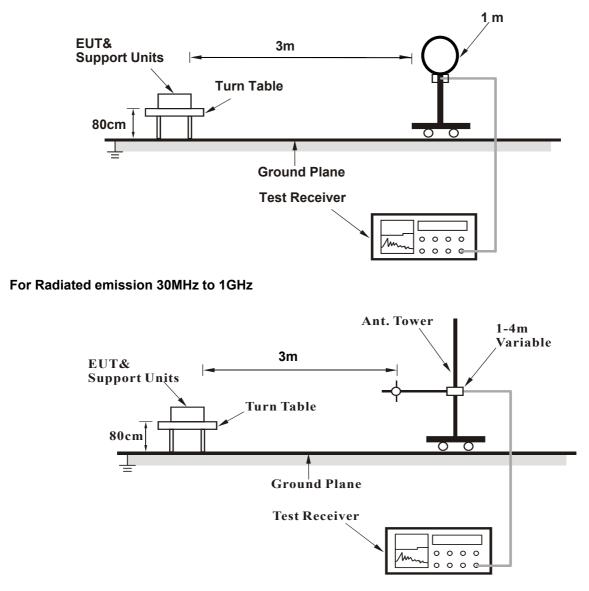
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

No deviation.

4.1.5 Test Set Up

For Radiated emission below 30MHz



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

4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	Environmental Conditions 23 deg. C, 66% RH		Titan Hsu	

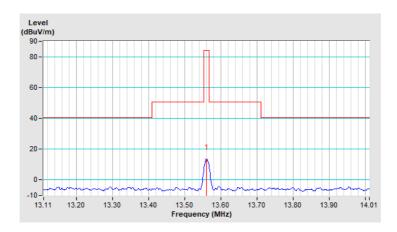
	Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m										
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)			
1	*13.56	13.0 QP	84.0	-71.0	1.00	187	31.0	-18.0			

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 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) Example:

13.56MHz = 15848uV/m 30m = 84dBuV/m 30m





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

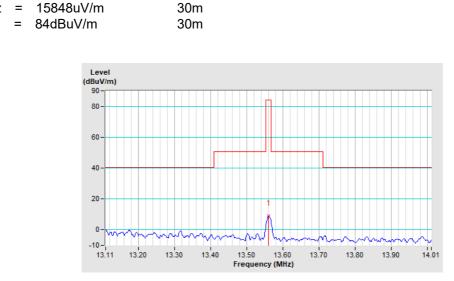
	Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m										
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)			
1	*13.56	8.9 QP	84.0	-75.1	1.00	264	26.9	-18.0			

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 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) Example:

Example: 13.56MHz





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m									
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)		
1	*13.56	8.0 QP	84.0	-76.0	1.00	184	26.0	-18.0		

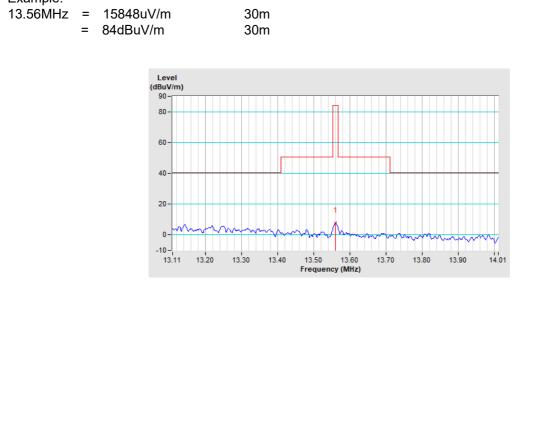
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)

- Pre-Amplifier Factor(dB)+Distance 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) Example:





Type B

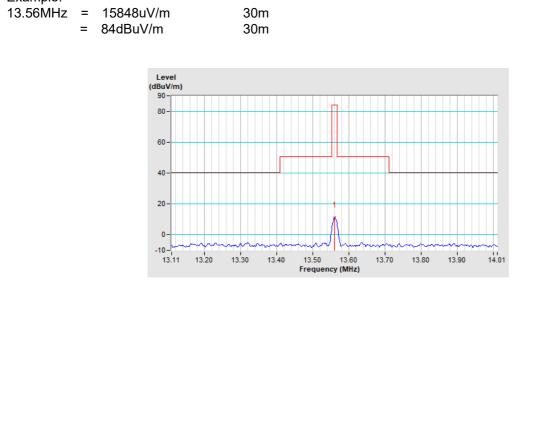
EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	Environmental Conditions 23 deg. C, 66% RH		Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m										
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)			
1	*13.56	11.2 QP	84.0	-72.8	1.00	183	29.2	-18.0			

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 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) Example:





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	*13.56	7.8 QP	84.0	-76.2	1.00	266	25.8	-18.0

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

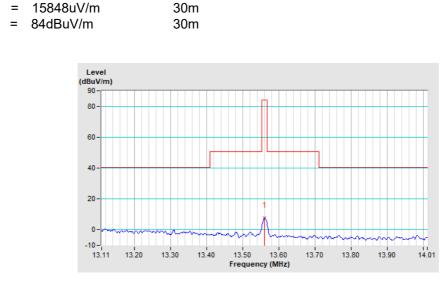
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)

- Pre-Amplifier Factor(dB)+Distance 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) Example:

Example: 13.56MHz





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	*13.56	8.1 QP	84.0	-75.9	1.00	187	26.1	-18.0

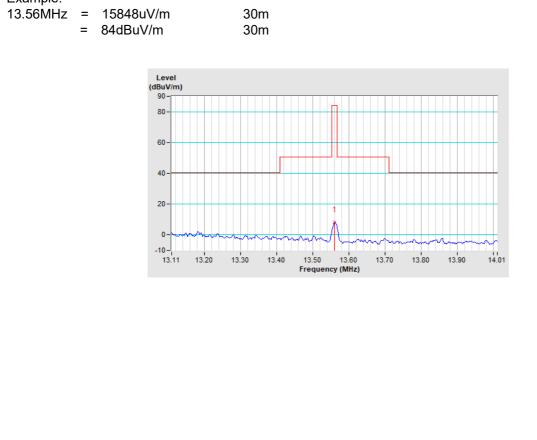
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)

- Pre-Amplifier Factor(dB)+Distance 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) Example:





Type F

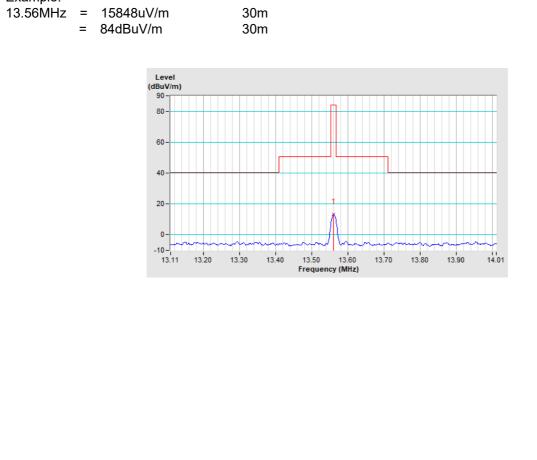
EUT Test Condition		Measurement Detail		
Channel Channel 1		Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	*13.56	13.4 QP	84.0	-70.6	1.00	192	31.4	-44.0

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 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) Example:





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	*13.56	9.0 QP	84.0	-75.0	1.00	265	27.0	-18.0

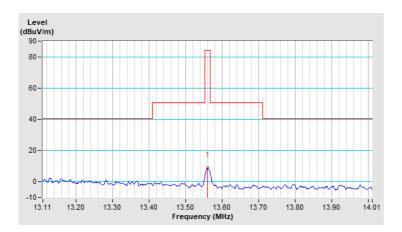
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
 - Pre-Amplifier Factor(dB)+Distance 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) Example:

13.56MHz

MHz = 15848uV/m 30m = 84dBuV/m 30m





EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

	Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m							
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	*13.56	8.7 QP	84.0	-75.3	1.00	190	26.7	-18.0

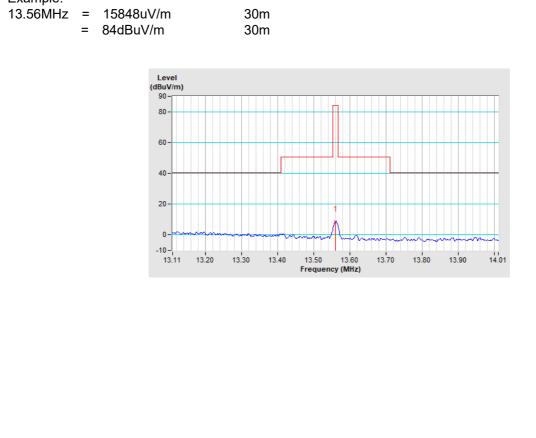
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)

- Pre-Amplifier Factor(dB)+Distance 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) Example:



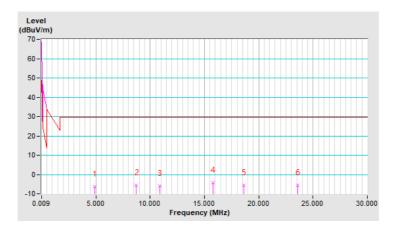


Type F

		Maggurament Datail		
EUT Test Condition		Measurement Detail		
Channel Channel 1		Frequency Range	Below 30MHz	
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak	
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu	

		Antenna	Polarity & T	est Distance:	Loop Antenn	a Parallel At	3m	
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	4.92	-6.2 QP	29.5	-35.7	1.00	276	13.6	-19.8
2	8.75	-5.7 QP	29.5	-35.2	1.00	16	12.8	-18.5
3	10.92	-5.8 QP	29.5	-35.3	1.00	342	12.3	-18.1
4	15.79	-4.3 QP	29.5	-33.8	1.00	18	13.6	-17.9
5	18.66	-5.6 QP	29.5	-35.1	1.00	18	12.2	-17.8
6	23.57	-5.5 QP	29.5	-35.0	1.00	227	12.4	-17.9

- 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 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)

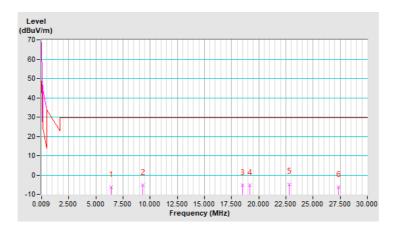




EUT Test Condition		Measurement Detail			
Channel Channel 1		Frequency Range	Below 30MHz		
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak		
Environmental Conditions	Environmental Conditions 23 deg. C, 66% RH		Titan Hsu		

		Antenna Po	plarity & Test	Distance: Lo	op Antenna F	Perpendicular	At 3m	
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	6.44	-6.2 QP	29.5	-35.7	1.00	150	13.1	-19.3
2	9.31	-5.4 QP	29.5	-34.9	1.00	111	12.9	-18.3
3	18.53	-5.3 QP	29.5	-34.8	1.00	46	12.5	-17.8
4	19.18	-5.4 QP	29.5	-34.9	1.00	309	12.4	-17.8
5	22.83	-4.7 QP	29.5	-34.2	1.00	16	13.2	-17.9
6	27.35	-6.3 QP	29.5	-35.8	1.00	88	11.6	-17.9

- 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 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)

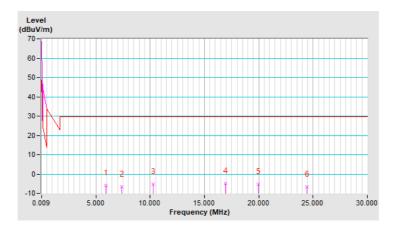




EUT Test Condition		Measurement Detail			
Channel Channel 1		Frequency Range	Below 30MHz		
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak		
Environmental Conditions	Environmental Conditions 23 deg. C, 66% RH		Titan Hsu		

		Antenna Po	larity & Test I	Distance: Loc	p Antenna G	round Paralle	e At 3m	
No.	Freq. (MHz)	Emission Level (dBuV/m) (30m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV) (3m)	Correction Factor (dB/m)
1	5.92	-5.9 QP	29.5	-35.4	1.00	3	13.6	-19.5
2	7.40	-6.7 QP	29.5	-36.2	1.00	327	12.3	-19.0
3	10.27	-5.2 QP	29.5	-34.7	1.00	38	12.9	-18.1
4	16.96	-5.0 QP	29.5	-34.5	1.00	15	12.9	-17.9
5	19.96	-5.4 QP	29.5	-34.9	1.00	2	12.4	-17.8
6	24.44	-6.7 QP	29.5	-36.2	1.00	322	11.2	-17.9

- 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 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)



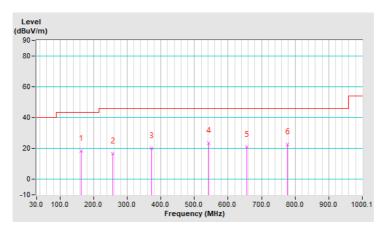


Type F

EUT Test Condition		Measurement Detail			
Channel Channel 1		Frequency Range	Below 1000MHz		
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak		
Environmental Conditions	Environmental Conditions 23 deg. C, 66% RH		Titan Hsu		

	Antenna Polarity & Test Distance: Horizontal At 3m										
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	162.16	18.5 QP	43.5	-25.0	1.50 H	293	36.6	-18.1			
2	257.76	16.8 QP	46.0	-29.2	1.01 H	12	36.1	-19.3			
3	371.64	20.2 QP	46.0	-25.8	1.50 H	188	36.0	-15.8			
4	543.17	23.6 QP	46.0	-22.4	1.50 H	161	35.8	-12.2			
5	655.64	20.9 QP	46.0	-25.1	1.01 H	138	30.7	-9.8			
6	777.96	22.6 QP	46.0	-23.4	1.01 H	45	30.4	-7.8			

- 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.
- 4. Margin value = Emission Level Limit value

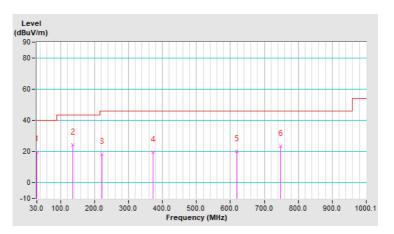




EUT Test Condition		Measurement Detail			
Channel Channel 1		Frequency Range	Below 1000MHz		
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak		
Environmental Conditions	23 deg. C, 66% RH	Tested By	Titan Hsu		

	Antenna Polarity & Test Distance: Vertical At 3m										
No.	Freq. (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	19.9 QP	40.0	-20.1	1.49 V	158	39.4	-19.5			
2	135.45	24.5 QP	43.5	-19.0	1.00 V	10	43.5	-19.0			
3	222.61	18.5 QP	46.0	-27.5	1.49 V	290	40.1	-21.6			
4	371.64	19.8 QP	46.0	-26.2	1.49 V	225	35.6	-15.8			
5	619.09	19.9 QP	46.0	-26.1	1.00 V	7	30.1	-10.2			
6	747.03	23.6 QP	46.0	-22.4	1.49 V	26	31.7	-8.1			

- 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.
- 4. Margin value = Emission Level Limit value





4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

	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.

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102783	Dec. 21, 2020	Dec. 20, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2020	Sep. 03, 2021
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 28, 2021	Jan. 27, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ENV216	101196	Apr. 26, 2021	Apr. 25, 2022
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 HwaYa Shielded Room 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.



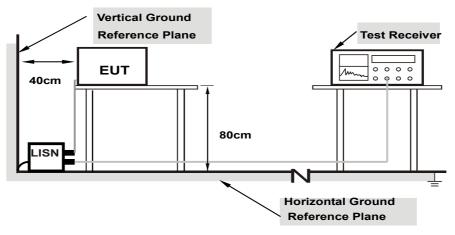
4.2.3 Test Procedures

- 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.
- c. 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.

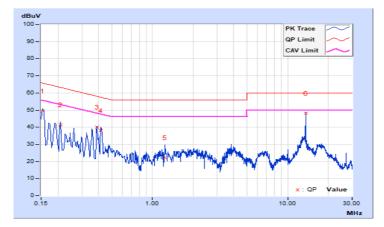


4.2.7 Test Results

Type F

Phase Line (L)					Detector Function Quasi-Peak (QP) / Average (AV)				/		
	Free	Corr.	Readin	g Value	Emissic	on Level	Lin	Limit		Margin	
No	Freq.	Factor	[dB ((uV)]	[dB ((uV)]	[dB (uV)]	(d	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15400	10.07	39.58	24.73	49.65	34.80	65.78	55.78	-16.13	-20.98	
2	0.21000	10.08	31.28	18.05	41.36	28.13	63.21	53.21	-21.85	-25.08	
3	0.39000	10.09	30.12	28.43	40.21	38.52	58.06	48.06	-17.85	-9.54	
4	0.41400	10.09	28.11	17.92	38.20	28.01	57.57	47.57	-19.37	-19.56	
5	1.24200	10.14	12.24	4.44	22.38	14.58	56.00	46.00	-33.62	-31.42	
6	13.56200	10.36	37.89	37.37	48.25	47.73	60.00	50.00	-11.75	-2.27	

- 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 Neutral (N) Detector Function Quasi-Peak (C Average (AV)				· · ·	/						
Freq. Co			Reading	g Value	Emissi	on Level	Lir	nit	it Margin		
No	rieq.	Factor	[dB ([uV)]	uV)] [dB		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15800	10.08	38.67	23.50	48.75	33.58	65.57	55.57	-16.82	-21.99	
2	0.17800	10.08	36.20	20.41	46.28	30.49	64.58	54.58	-18.30	-24.09	
3	0.19800	10.08	31.43	16.76	41.51	26.84	63.69	53.69	-22.18	-26.85	
4	0.39000	10.10	29.82	28.04	39.92	38.14	58.06	48.06	-18.14	-9.92	
5	3.75400	10.25	15.25	6.77	25.50	17.02	56.00	46.00	-30.50	-28.98	
6	13.56200	10.49	37.88	37.35	48.37	47.84	60.00	50.00	-11.63	-2.16	

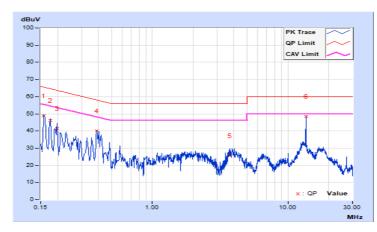
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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.



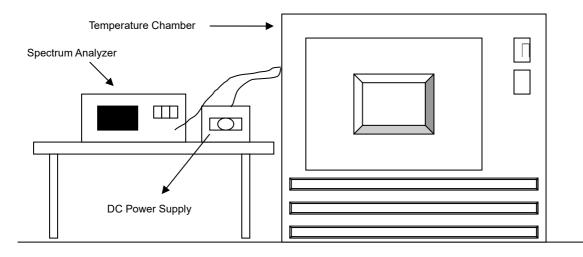


4.3 Frequency Stability

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
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2021	May 31, 2022
Three-phase coupling / decoupling network TESEQ	CDN 3063	4006	Mar. 10, 2021	Mar. 09, 2022
DC Power Supply Topward	6306A	727263	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.



4.3.4 Test Procedure

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- 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 from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

Same as Item 4.1.6.



4.3.7 Test Result

Type F

			F	requency S	tability Vers	us Temp.			
		0 Minute		2 Minute		5 Minute		10 Minute	
TEMP. (℃)	Power Supply (Vdc)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	3.84	13.56005	0.00037	13.56005	0.00037	13.56005	0.00037	13.56005	0.00037
40	3.84	13.56007	0.00052	13.56007	0.00052	13.56008	0.00059	13.56007	0.00052
30	3.84	13.55995	-0.00037	13.55994	-0.00044	13.55993	-0.00052	13.55994	-0.00044
20	3.84	13.55996	-0.00029	13.55995	-0.00037	13.55995	-0.00037	13.55995	-0.00037
10	3.84	13.56005	0.00037	13.56005	0.00037	13.56005	0.00037	13.56004	0.00029
0	3.84	13.56002	0.00015	13.56002	0.00015	13.56002	0.00015	13.56002	0.00015
-10	3.84	13.56004	0.00029	13.56004	0.00029	13.56004	0.00029	13.56005	0.00037
-20	3.84	13.56002	0.00015	13.56002	0.00015	13.56002	0.00015	13.56002	0.00015

	Frequency Stability Versus Voltage								
		0 Minute		2 Minute		5 Minute		10 Minute	
TEMP. (℃)	Power Supply (Vdc)	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
	4.416	13.55996	-0.00029	13.55995	-0.00037	13.55995	-0.00037	13.55995	-0.00037
20	3.84	13.55996	-0.00029	13.55995	-0.00037	13.55995	-0.00037	13.55995	-0.00037
	3.264	13.55996	-0.00029	13.55995	-0.00037	13.55995	-0.00037	13.55995	-0.00037

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.



4.4.7 Test Results

Type F

20dBc point (Lo	ow)	20dBc p	ooint (High)		frequency banc (MHz)	ł	Pass /	Fail
13.55964		13.5	562217	13.5	53~13.567		Pase	6
			Spectrum I	Plot Of Valu	е			
			•					
MultiView Spect	um 🔸							-
Ref Level 67.00 dBµV/m Att 0 dB (TDF "HLA6121.TDF"		00 dB • RBW 1 10 ms • VBW 3	kHz kHz Mode Sweep					SGL
1 Frequency Sweep		e		ſ			D1[1]	01Sa Avg -0.20 d
60 dBµV/m								2.5770 kH
50 dBµV/m							M1[1] 	-6.32 dBµV/r .559 640 0 MH
40 dBµV/m								
30 dBµV/m								
20 dBµV/m) dBuV/m							
10 dBµV/m								
0 dBµV/m			Mj	A	D1			
		1						
-10 dBµV/m	н	I2 -6.570 dBµV/m—			<u>\</u>		M3	
		12 -6.570 dBµV/m					M3	
-10 dBµV/m -20 dBµV/m	"	12 -6.570 dBµV/m-				~	M3 V2	
-10 dBμV/m -20 dBμV/m -30 dBμV/m -30 dBμV/m CF 13.56 MHz			001 pts				V2	Span 20.0 kHz
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Туре Ref Trc	X-V2		V-Value				V2	•
-10 dBµV/m -20 dBµV/m -30 dBµV/m	×-V/ 13.559 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/		V2	•
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1	x-va 13.559 2.!	10 alue 64 MHz 577 KHz 07 MHz			2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	V2	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m	×-V/ 13.559 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	Bady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	zady	Function Re	Span 20.0 kHz esult 31.08.2021 17:04:30
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	Bady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table Type Ref Trc M1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	Bady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dBµV/m -30 dBµV/m CF 13.56 MHz 2 Marker Table 2 Marker Table 1 1 D1 M1 1 M2 1 M3 1	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	eady	Function Re	esult
-10 dBµV/m -20 dBµV/m -30 dB	×-V/ 13.559 2.! 13.553 0	10 alue 64 MHz 577 KHz 07 MHz	Y-Value -6.32 dBµV/ -0.20 d -29.49 dBµV/		2.0 kHz/	Bady	Function Re	esult



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



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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