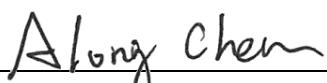


# FCC Test Report

**FCC ID** : RF41539C  
**Equipment** : Handheld Terminal  
**Model No.** : DX-A400  
**Brand Name** : KEYENCE  
**Applicant** : KEYENCE CORPORATION  
**Address** : 1-3-14 HIGASHI-NAKAJIMA,  
HIGASHI-YODOGAWA-KU, OSAKA, JAPAN  
**Standard** : 47 CFR FCC Part 15.225  
**Received Date** : Jun. 21, 2021  
**Tested Date** : Jul. 09 ~ Aug. 12, 2021

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Local Support Equipment List .....	6
1.3	Test Setup Chart .....	6
1.4	The Equipment List .....	7
1.5	Test Standards .....	8
1.6	Deviation from Test Standard and Measurement Procedure.....	8
1.7	Measurement Uncertainty .....	8
<b>2</b>	<b>TEST CONFIGURATION.....</b>	<b>9</b>
2.1	Testing Facility.....	9
2.2	The Worst Test Modes and Channel Details .....	9
<b>3</b>	<b>TRANSMITTER TEST RESULTS.....</b>	<b>10</b>
3.1	Conducted Emissions.....	10
3.2	20dB and Occupied Bandwidth .....	13
3.3	Field Strength of Fundamental Emissions .....	15
3.4	Unwanted Emissions into Restricted Frequency Bands .....	17
3.5	Frequency Stability .....	22
<b>4</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>24</b>

## Release Record

Report No.	Version	Description	Issued Date
FR162103	Rev. 01	Initial issue	Nov. 16, 2021

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV/m at 3m]: 0.573 39.85 (Margin -16.15dB)	Pass
15.225(a)~(c)	Field strength of fundamental emissions and spectrum mask	[dBuV/m at 3m]: 13.56 47.81 (Margin -57.58dB)	Pass
15.225(d)	Field strength of any emissions appearing outside of the 13.110-14.010 MHz band	Meet the requirement of limit	Pass
15.225(e)	Frequency tolerance	Meet the requirement of limit	Pass
15.215 (c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1 General Description

### 1.1 Information

#### 1.1.1 Specification of the Equipment under Test (EUT)

RF General Information			
Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
13.553 – 13.567	ASK	13.56	1

#### 1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remarks
1	Coil	No	---	---

#### 1.1.3 EUT Operational Condition

Supply Voltage	3.8Vdc		
Operational Voltage	<input checked="" type="checkbox"/> Vnom (3.8 V)	<input checked="" type="checkbox"/> Vmax (3.99 V)	<input checked="" type="checkbox"/> Vmin (3.61 V)
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (50°C)	<input checked="" type="checkbox"/> Tmin (-20°C)

#### 1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Battery	Brand: KEYENCE Model: DX-BQ3 Rating: 3.8Vdc (11.51Wh) 3030mAh

#### 1.1.5 Test Tool and Power Index

Test Tool	adb, V1.0.40
Power Index	Default

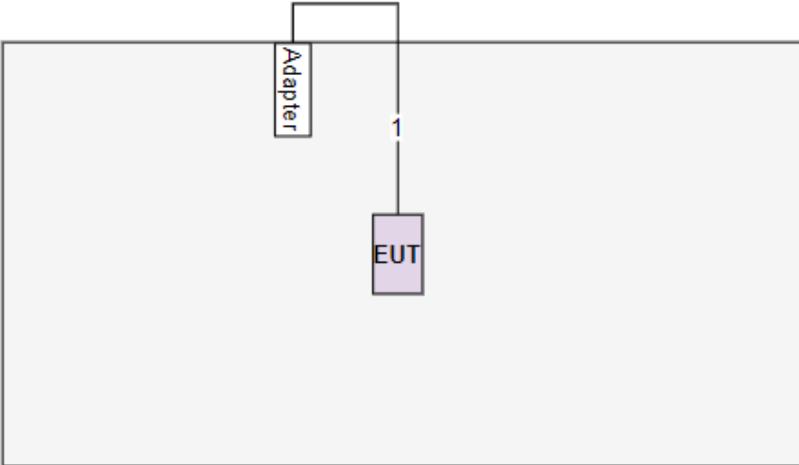
## 1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	Adapter	PHIHONG	PSA10F-050Q	---	Provided by applicant. Input: 100-240V~ 50/60Hz, 0.35A Output: 5.0V==2.0A, 10.0W

Note:

1. Adapter is used for charging only.
2. The support notebook is disconnected from EUT and is removed from test table after sending command to EUT for NFC TX.

## 1.3 Test Setup Chart

Test Setup Diagram	
	

No.	Signal cable / Length (m)
1	USB, 1m shielded. (Provided by applicant.)

## 1.4 The Equipment List

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Tested Date</b>	Aug. 12, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA

Note: Calibration Interval of instruments listed above is one year.

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Tested Date</b>	Jul. 09 ~ Jul. 28, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021

Note: Calibration Interval of instruments listed above is one year.

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Tested Date</b>	Jul. 16, 2021				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 10, 2020	Sep. 09, 2021
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 09, 2020	Nov. 08, 2021
Note: Calibration Interval of instruments listed above is one year.					

## 1.5 Test Standards

47 CFR FCC Part 15.225

ANSI C63.10-2013

## 1.6 Deviation from Test Standard and Measurement Procedure

None

## 1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Radiated emission ≤ 30MHz	±2.3 dB
Radiated emission ≤ 1GHz	±3.41 dB
Temperature	±0.4 °C

## 2 Test Configuration

### 2.1 Testing Facility

<b>Test Laboratory</b>	International Certification Corporation
<b>Test Site</b>	CO01-WS, 03CH01-WS, TH01-WS
<b>Address of Test Site</b>	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)
Field strength of fundamental emissions	RFID	13.56
Field strength of any emissions appearing outside of the 13.110-14.010 MHz band	RFID	13.56
Frequency tolerance	RFID	13.56
20dB bandwidth	RFID	13.56

**NOTE:**

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

## 3 Transmitter Test Results

### 3.1 Conducted Emissions

#### 3.1.1 Limit of Conducted Emissions

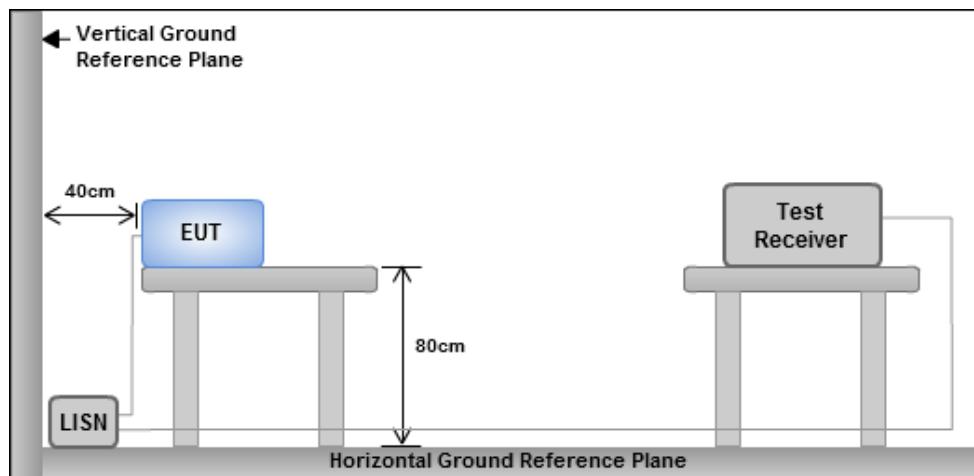
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

#### 3.1.2 Test Procedures

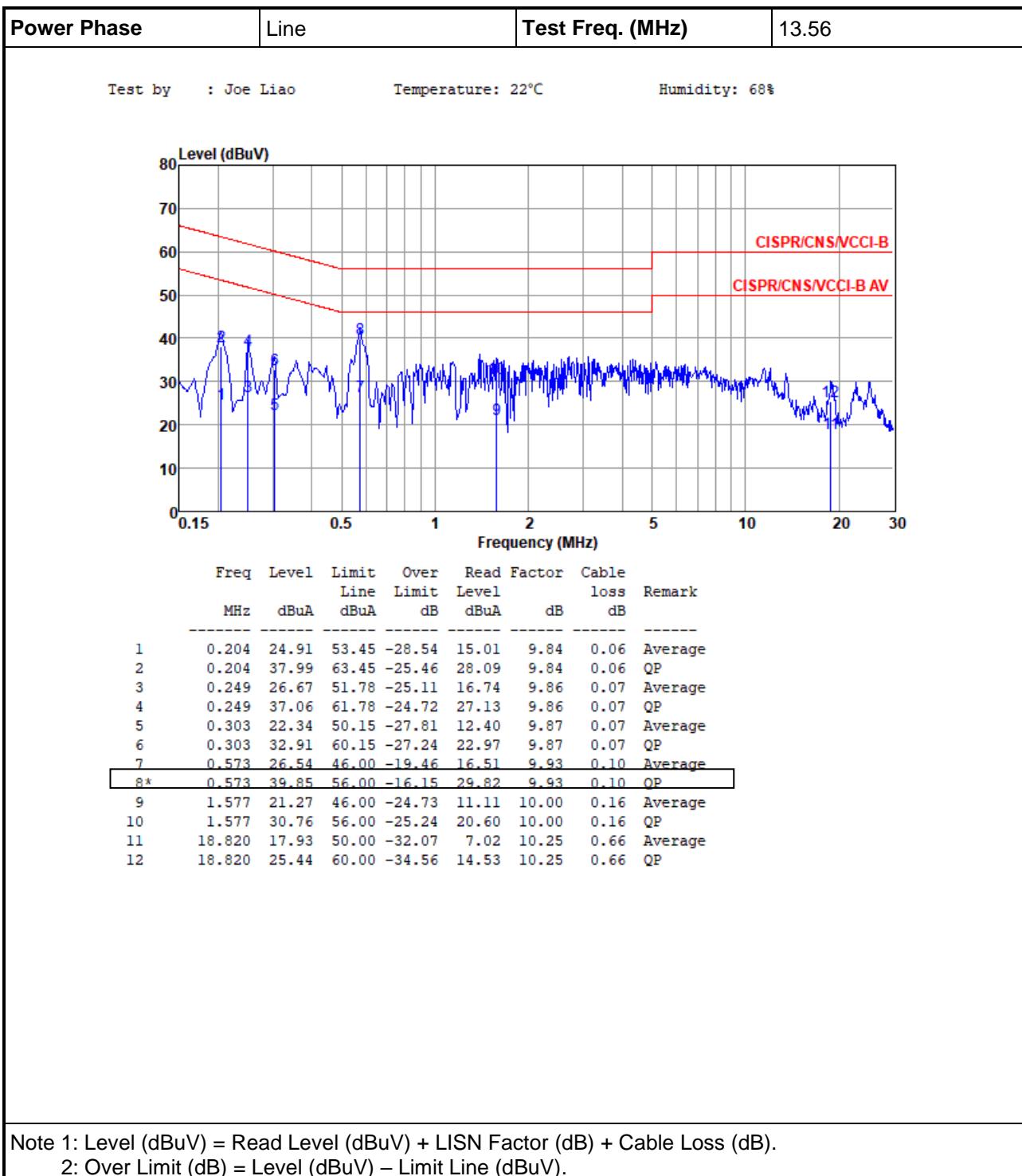
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

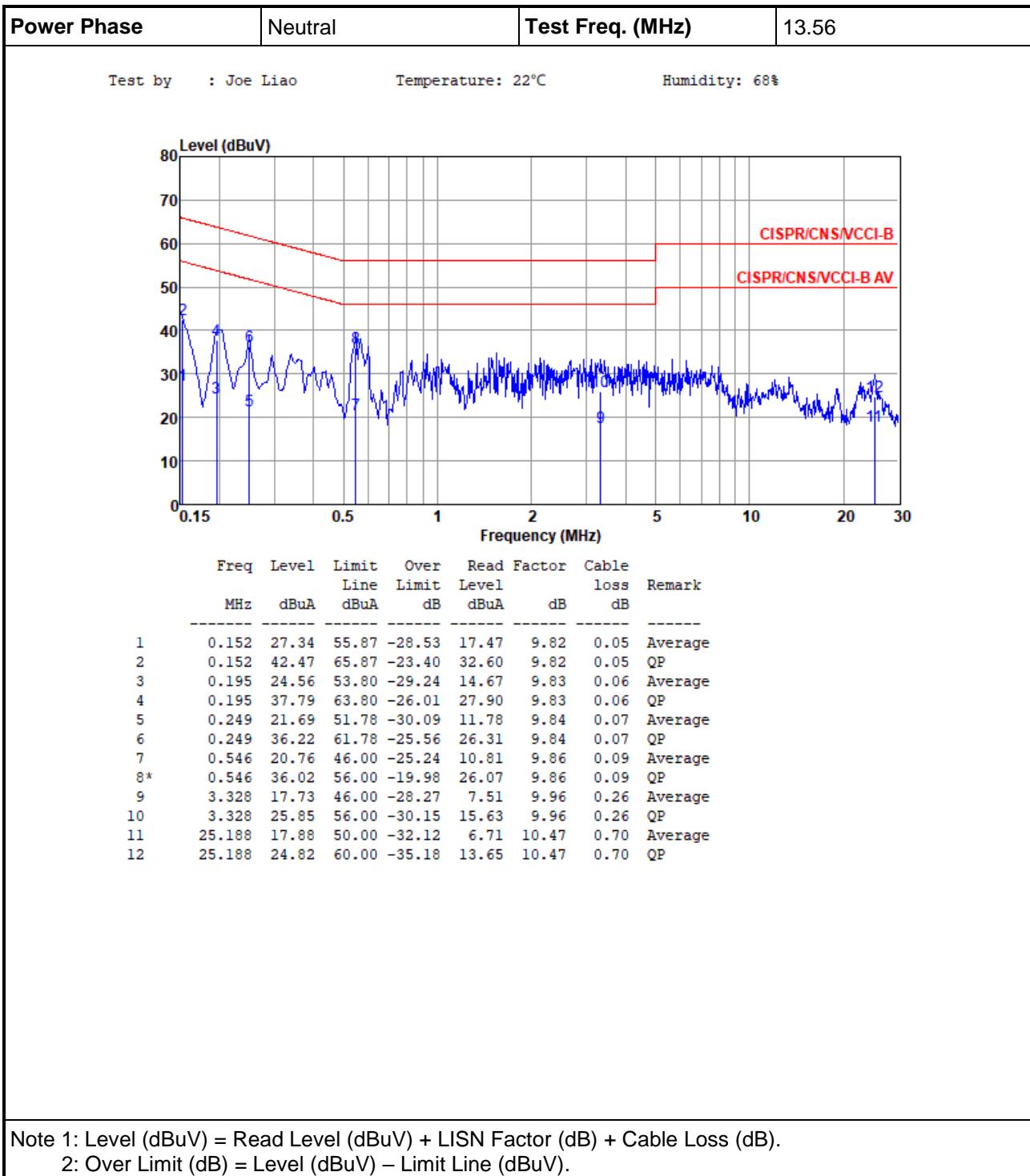
#### 3.1.3 Test Setup



Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions





## 3.2 20dB and Occupied Bandwidth

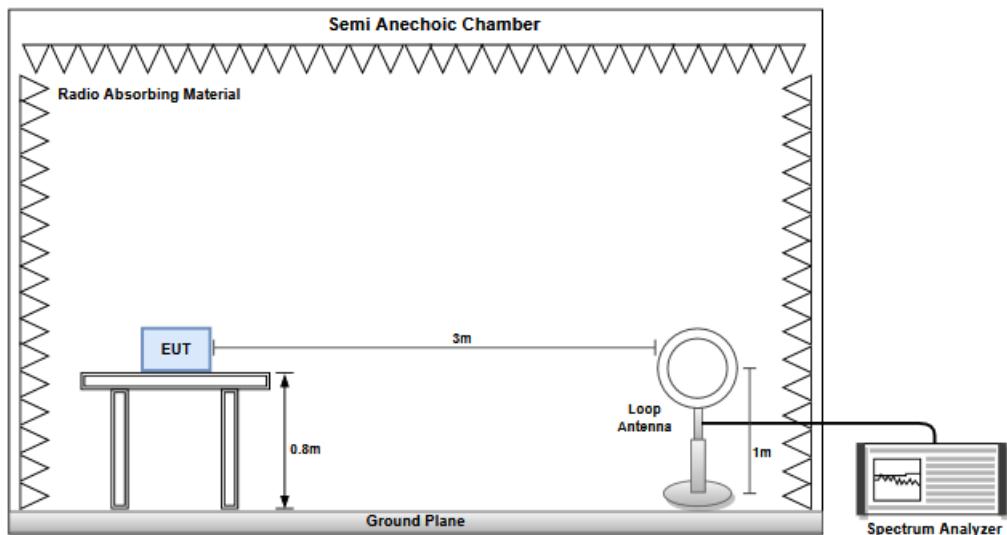
### 3.2.1 Limit of 20dB Bandwidth

The upper and lower frequency of the 20dB bandwidth shall within 13.553~13.567 MHz

### 3.2.2 Test Procedures

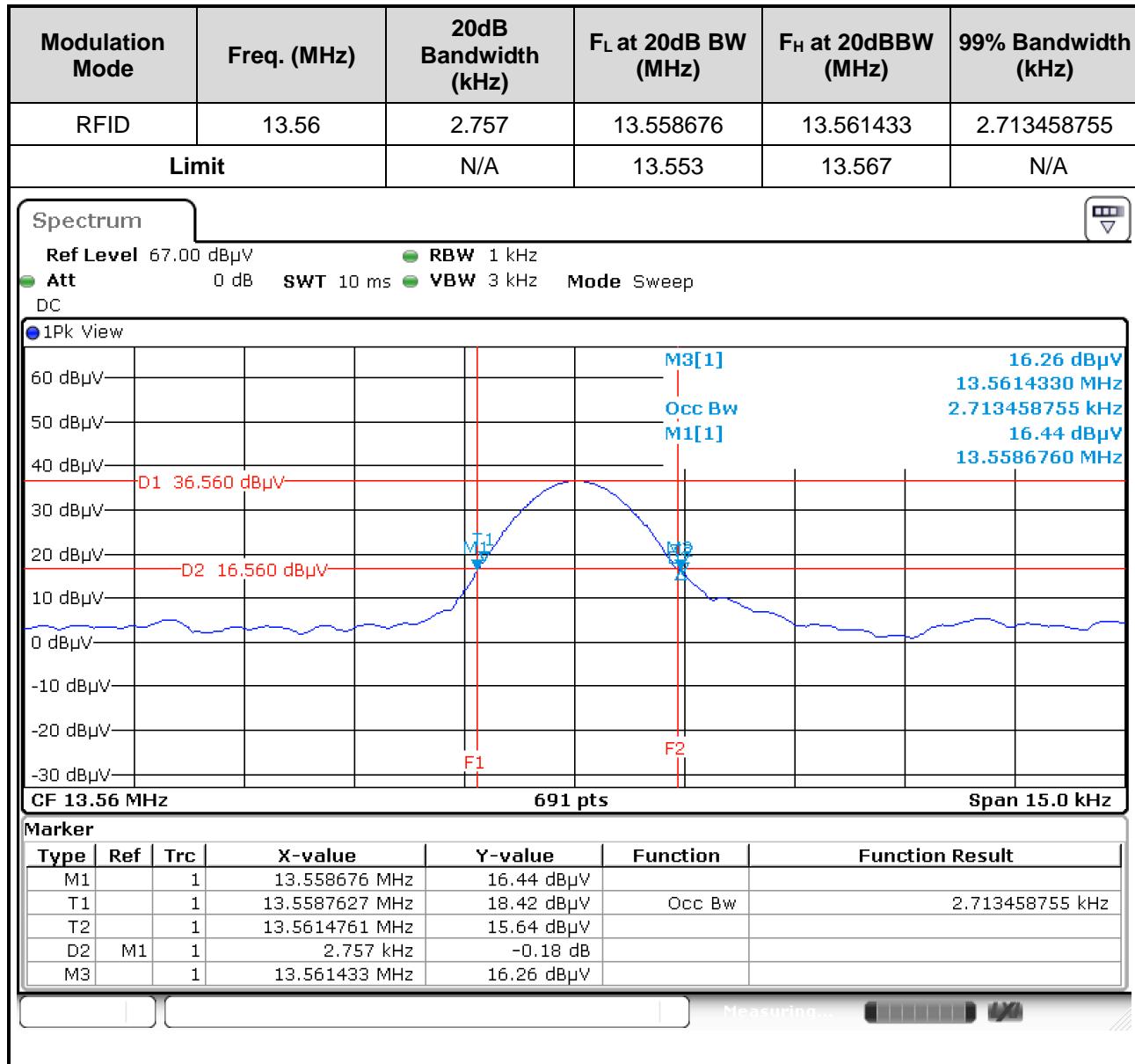
1. Set resolution bandwidth (RBW) = 1 kHz, Video bandwidth = 3 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.

### 3.2.3 Test Setup



### 3.2.4 Test Result of 20dB and Occupied Bandwidth

Ambient Condition	25°C / 63%	Tested By	Akun Chung
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### 3.3 Field Strength of Fundamental Emissions

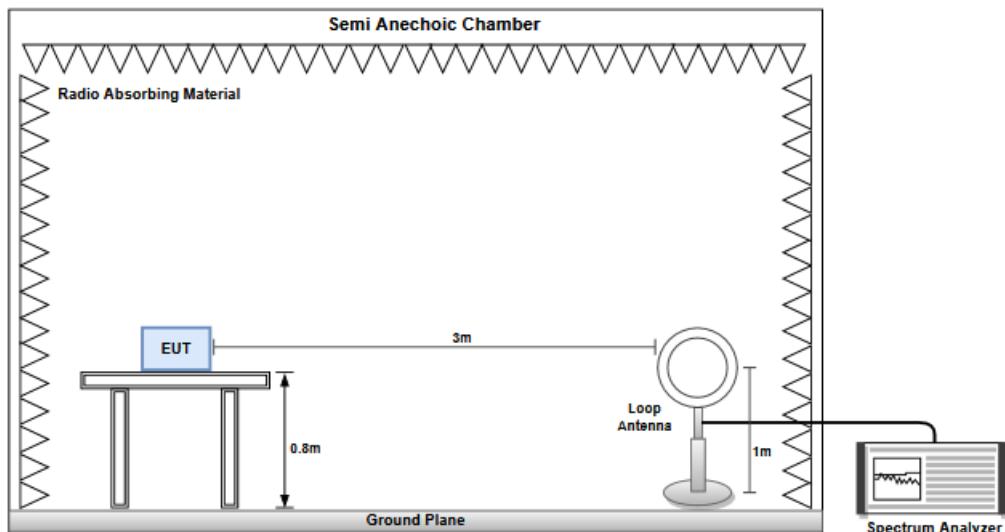
#### 3.3.1 Field Strength of Fundamental Emissions

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

#### 3.3.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the open and close planes of polarization. . Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, and the antenna rotated to repeat the measurements for both the open and close antenna polarizations.

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Field Strength of Fundamental Emissions

Ambient Condition	25°C / 65%	Tested By	Akun Chung
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Field Strength of Fundamental Emissions Result							
Polarization	Emission Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	SA Reading (dBuV)	Factor	Remark
Open	13.56	47.81	105.39	-57.58	23.49	24.32	QP

Field Strength of Fundamental Emissions Result							
Polarization	Emission Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	SA Reading (dBuV)	Factor	Remark
Close	13.56	45.61	105.39	-59.78	21.29	24.32	QP

Note: Emission level = SA reading + Factor

## 3.4 Unwanted Emissions into Restricted Frequency Bands

### 3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

- 1) 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.
- 2) 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.
- 3) 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 below table

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**

Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

### 3.4.2 Test Procedures

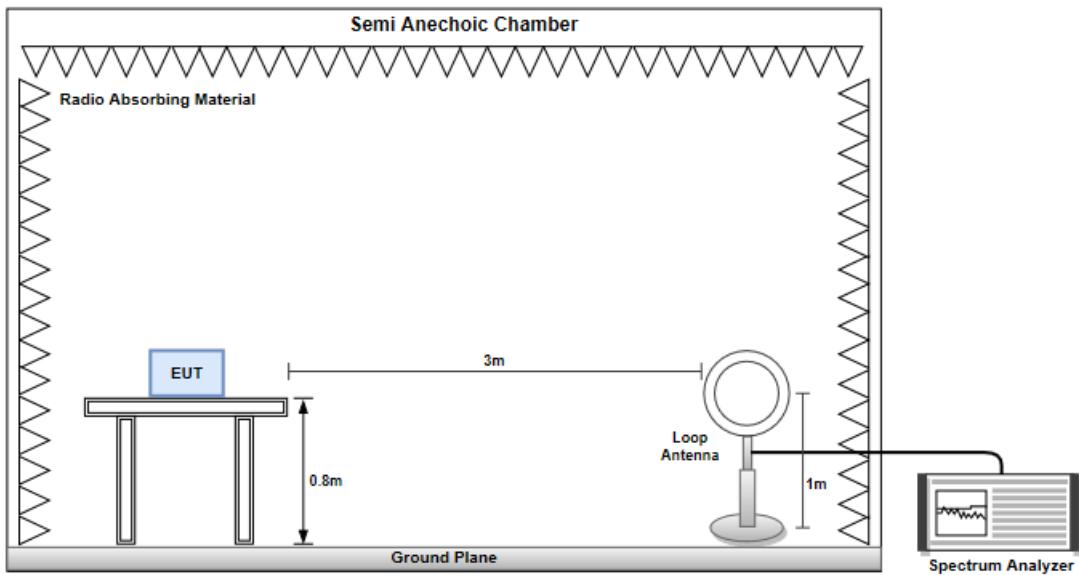
4. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
5. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
6. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

**Note:**

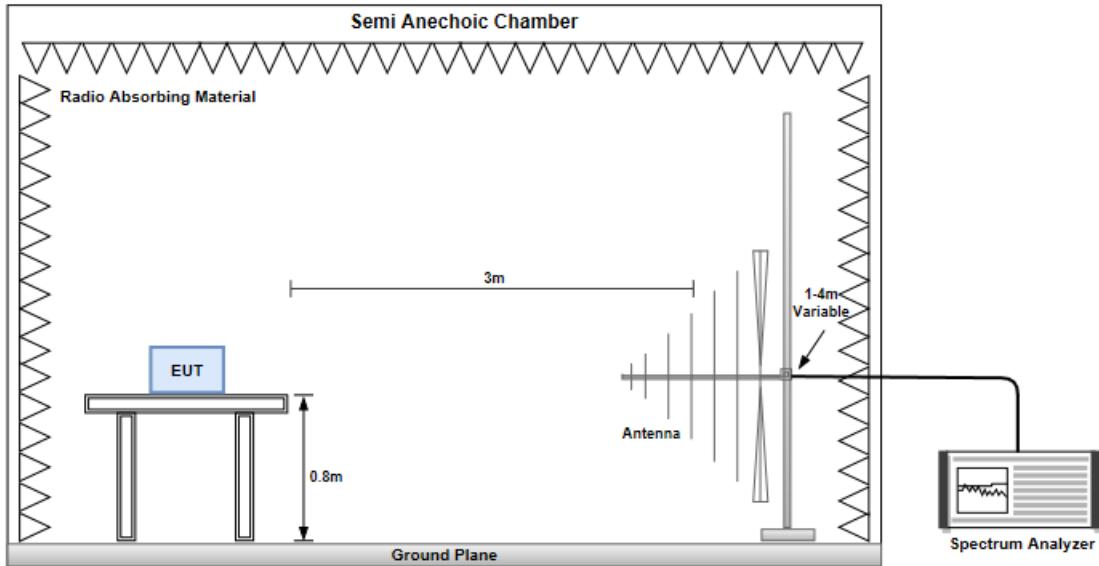
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.

### 3.4.3 Test Setup

#### Radiated Emissions below 30MHz



#### Radiated Emissions below 1 GHz



### 3.4.4 Transmitter Radiated Unwanted Emissions (Below 30MHz)

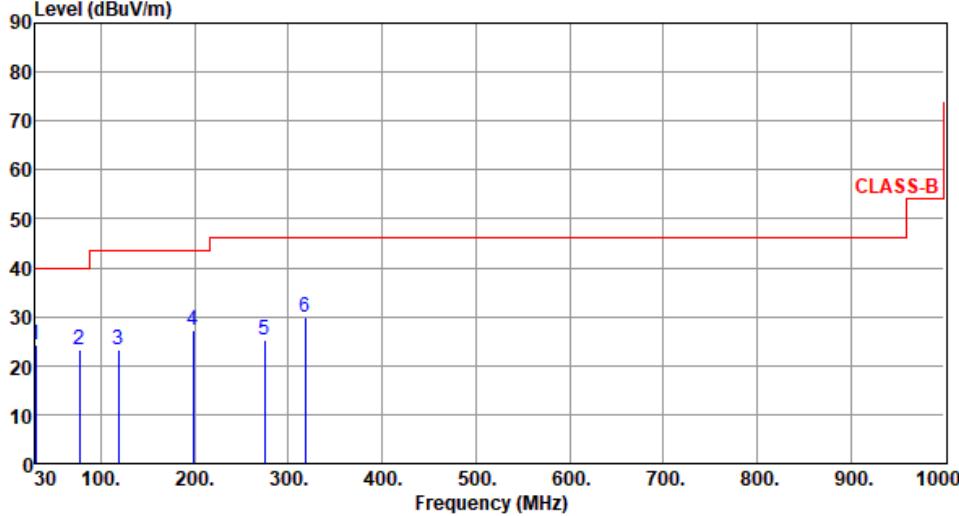
Ambient Condition	25°C / 65%	Tested By	Akun Chung
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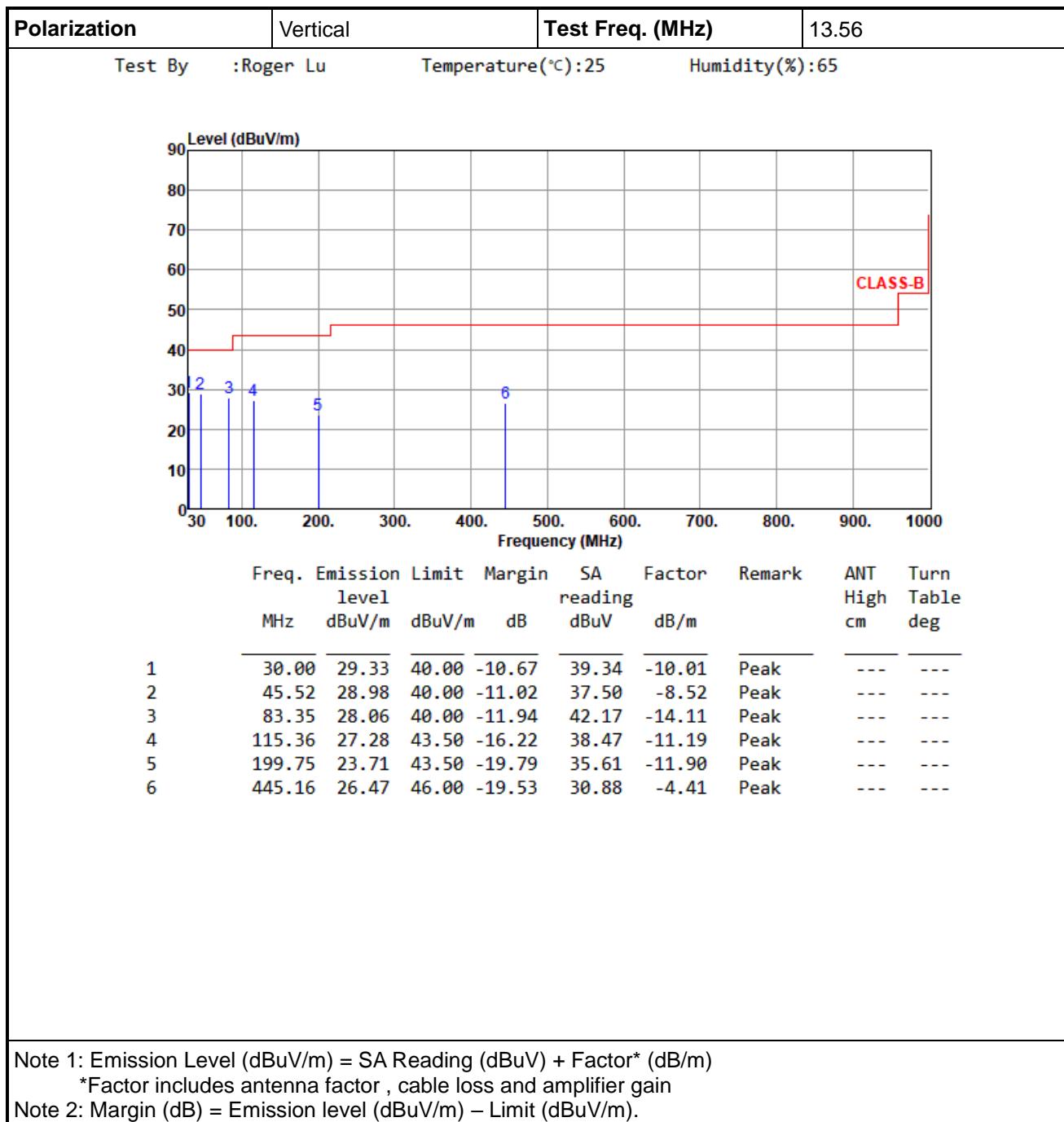
Field Strength of Fundamental Emissions Result							
Polarization	Emission Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	SA Reading (dBuV)	Factor(dB)	Remark
Open	13.41	36.11	62	-25.89	11.84	24.27	QP
Open	13.553	42.06	71.87	-29.81	17.75	24.31	QP
Open	13.567	42.16	71.86	-29.7	17.84	24.32	QP
Open	13.71	36.23	61.81	-25.58	11.87	24.36	QP
Open	27.12	31.12	49.54	-18.42	11.39	19.73	QP

Field Strength of Fundamental Emissions Result							
Polarization	Emission Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	SA Reading (dBuV)	Factor(dB)	Remark
Close	13.41	38.7	62	-23.3	14.43	24.27	QP
Close	13.553	39.53	71.87	-32.34	15.22	24.31	QP
Close	13.567	39.51	71.86	-32.35	15.19	24.32	QP
Close	13.71	38.86	61.81	-22.95	14.5	24.36	QP
Close	27.12	31.22	49.54	-18.32	11.49	19.73	QP

Note: Emission level = SA reading + Factor

### 3.4.5 Transmitter Radiated Unwanted Emissions (Above 30MHz)

Polarization	Horizontal	Test Freq. (MHz)	13.56																																																																						
Test By	:Roger Lu	Temperature (°C):25	Humidity (%):65																																																																						
																																																																									
<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission Limit</th> <th>Margin</th> <th>SA</th> <th>Factor</th> <th>Remark</th> <th>ANT</th> <th>Turn</th> </tr> <tr> <th>MHz</th> <th>level</th> <th>dB</th> <th>reading</th> <th>dB/m</th> <th></th> <th>High</th> <th>Table</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.00</td> <td>24.36</td> <td>40.00</td> <td>-15.64</td> <td>34.37</td> <td>-10.01</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2</td> <td>77.53</td> <td>23.25</td> <td>40.00</td> <td>-16.75</td> <td>36.07</td> <td>-12.82</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>118.27</td> <td>23.25</td> <td>43.50</td> <td>-20.25</td> <td>34.18</td> <td>-10.93</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>198.78</td> <td>27.20</td> <td>43.50</td> <td>-16.30</td> <td>39.05</td> <td>-11.85</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>274.44</td> <td>25.13</td> <td>46.00</td> <td>-20.87</td> <td>34.13</td> <td>-9.00</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6</td> <td>318.09</td> <td>30.04</td> <td>46.00</td> <td>-15.96</td> <td>37.69</td> <td>-7.65</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>				Freq.	Emission Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dB	reading	dB/m		High	Table	1	30.00	24.36	40.00	-15.64	34.37	-10.01	Peak	---	2	77.53	23.25	40.00	-16.75	36.07	-12.82	Peak	---	3	118.27	23.25	43.50	-20.25	34.18	-10.93	Peak	---	4	198.78	27.20	43.50	-16.30	39.05	-11.85	Peak	---	5	274.44	25.13	46.00	-20.87	34.13	-9.00	Peak	---	6	318.09	30.04	46.00	-15.96	37.69	-7.65	Peak	---
Freq.	Emission Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																		
MHz	level	dB	reading	dB/m		High	Table																																																																		
1	30.00	24.36	40.00	-15.64	34.37	-10.01	Peak	---																																																																	
2	77.53	23.25	40.00	-16.75	36.07	-12.82	Peak	---																																																																	
3	118.27	23.25	43.50	-20.25	34.18	-10.93	Peak	---																																																																	
4	198.78	27.20	43.50	-16.30	39.05	-11.85	Peak	---																																																																	
5	274.44	25.13	46.00	-20.87	34.13	-9.00	Peak	---																																																																	
6	318.09	30.04	46.00	-15.96	37.69	-7.65	Peak	---																																																																	
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																									



## 3.5 Frequency Stability

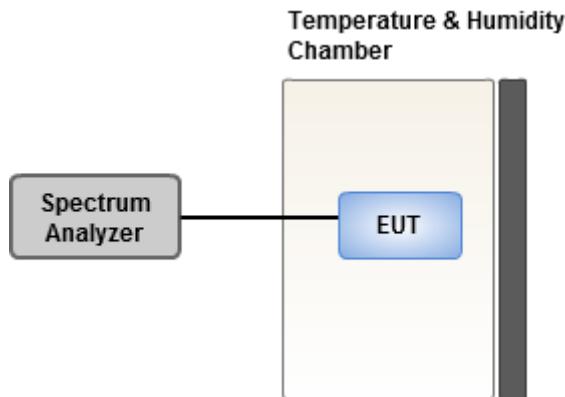
### 3.5.1 Frequency Stability Limit

Carrier frequency stability shall be maintained to  $\pm 0.01\%$  ( $\pm 100$  ppm).

### 3.5.2 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.8 for frequency stability tests
<input checked="" type="checkbox"/> Frequency stability with respect to ambient temperature
<input checked="" type="checkbox"/> Frequency stability when varying supply voltage
<input type="checkbox"/> For conducted measurement.
<input checked="" type="checkbox"/> For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

### 3.5.3 Test Setup



### 3.5.4 Test Result of Frequency Stability

Ambient Condition	25°C / 63%	Tested By	Akun Chung
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Frequency: 13.56 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	5.90	5.16	5.90	4.42
T20°C Vmin	5.16	5.16	4.42	5.16
T50°C Vnom	6.64	5.90	5.90	5.16
T40°C Vnom	5.90	5.16	5.90	3.69
T30°C Vnom	4.42	5.90	3.69	4.42
T20°C Vnom	5.90	5.16	5.16	5.16
T10°C Vnom	3.69	4.42	3.69	4.42
T0°C Vnom	2.95	3.69	3.69	3.69
T-10°C Vnom	2.95	4.42	3.69	1.47
T-20°C Vnom	0.74	2.95	2.95	2.21
Vnom [V]: 3.8	Vmax [V]: 3.99			Vmin [V]: 3.61
Tnom [°C]: 20	Tmax [°C]: 50			Tmin [°C]: -20

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### Linkou

Tel: 886-2-2601-1640  
No.30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan  
(R.O.C.)

### Kwei Shan

Tel: 886-3-271-8666  
No.3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### Kwei Shan Site II

Tel: 886-3-271-8640  
No.14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666  
Fax: 886-3-318-0345  
Email: ICC\_Service@icertifi.com.tw

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