FCC Part 15 EMI TEST REPORT

E.U.T.	: Access Reader
Model	: OPC001C
FCC ID	: 2AOANTWSECOMOPC001C

for

APPLICANT	:	SECOM TAIWAN
ADDRESS	:	No. 139, Zhengzhou Road, Datong District,
		Taipei City, Taiwan (R.O.C.)

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN NO. 34. LIN 5. DINGFU, LINKOU DIST., NEW TAIPEI CITY, TAIWAN, 24442, R.O.C. Tel:(02)26023052 Fax:(02)26010910 http://www.etc.org.tw ; e-mail : emc@etc.org.tw

Report Number : 17-06-RBF-021-05

TEST REPORT CERTIFICATION

Applicant Manufacture	 SECOM TAIWAN No. 139, Zhengzhou Road, Datong District, Taipei City, Taiwan (R.O.C.) SECOM TAIWAN No. 139, Zhengzhou Road, Datong District, Taipei City, Taiwan (R.O.C.)
Description of Device	:
a) Type of EUT	Access Reader
b) Trade Name	SECOM
c) Model No.	OPC001C
d) Power Supply	DC 12V

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.10-2013, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Summary of Tests

Test	Results
Radiated Emission	Pass
Frequency Stability	Pass
Conducted Emission	N/A
Operation Bandwidth	Pass

NG DEP

Date Test Item Received:Date Test Campaign Completed:Date of Issue:

: Jun. 15, 2017 : Jul. 10, 2017 : Aug,30, 2018

:

Test Engineer

Brian Huang, Engineer)

Approve & Authorized

have

Vincent Chang, Supervisor EMC Dept. II of ELECTRONICS TESTING CENTER, TAIWAN

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1. GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : Access Reader
- b) Trade Name : SECOM
- c) Model No. : OPC001C
- d) Power Supply : DC 12V

1.2 Characteristics of Device:

The product is an Access Reader.

- Conforms to ISO 14443 standard, supporting MIFARE card
- Unique ID or Block read format supported and programmable key value.
- Provides RS-485/RJ45 communication interface for long distance installation

• Keypad function. When working with control panel, it provides swiping card, press card number by keypad or swiping card with password to access.

- LCD displays date, day of week, time and reader's status
- Indicator light led & voice prompt
- Normal Card : blue light flash one time / one short Beep
- Invalid card : Red light flash three times / 3 sec. continuous beep

-Communication error : Flashing Red and Blue light / continuous beep sound

- Case sensor detection function to enhance the security
- Watchdog function secures system free from halting.
- Update new firmware via RS232.

• Opdate new miniware via KS252.			
Read Format	MIFARE (13.56 MHz)		
Read Range	3-5 cm(max)		
Comm. Interface	RS-485/RJ-45		
Keypad	16 Keys (F1-F4, 0-9, *, #)		
Input Ports	Case Sensor x 1		
Output Ports (Built-in)	Relay x 3 (Door Lock or Bell or Exception Notification)		
Cardholders	16000		
ID Setting	Command Setting by Keypad		
Comm. Speed	RS485 19,200 bps-N-8-1 / Ethernet 10Mbps		
LCD display	130 x 64 DOTS Graphic Display with Backlight		
LED Indicator	Power / Comm.		
Beep Tone	Buzzer		
Power Input	DC 12V (10V~15V)		
Current Consumption	0.2A (max)		
Operating Temp.	-10 ~ 45 °C		
Relative Humidity	20% ~ 90%		
Dimension (LxWxH)(mm)	154 x 106 x 30		
Weight (Device)	250g		

1.3 Test Methodology

Both conducted and radiated emissions were performed according to the procedures illustrated in ANSI C63.10-2013. Other required measurements were illustrated in separate sections of this test report for details.

Measurement Software

Software	Version	Note
e3	Version 6.100618b	Radiated Emission Test
e3	Version 6.100421	Conducted Emission Test

1.4 Test Facility

Location of the Test site: No.34, Lin 5, Dingfu Vil., Linkou Dist., New Taipei City, Taiwan 24442, R.O.C.

Designation Number: TW2628.

2. DEFINITION AND LIMITS

2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:				
MHz	MHz	MHz	GHz	
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15	
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46	
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3360-4400	Above 38.6	
13.36-13.41				

Remark "**": Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.3 Limitation

(1) Conducted Emission Limits:

Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

• Decreases with the logarithm of the frequency

(2) Radiated Emission Limits:

According to 15.225, the requirement of radiated emission is:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

According to § 15.209 Radiated emission limits, general requirements. (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequencies	Field Strength	Measurement
(MHz)	(microvolts/meter)	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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As shown in 15.35(b), 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 20 dB under any condition of modulation.

(3) Frequency Stability Limit:

According to 15.225, the requirement of frequency stability is:

(e) 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. For battery operated equipment, the equipment tests shall be performe using a new battery.

(4) Operation Bandwidth Limit:

According to 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3 SYSTEM TEST CONFIGURATION

3.1 Justification

All measurement were intentional to maximum the emissions from EUT by varying the connection cables (if applicable), therefore, the test result is sure to meet the applicable requirement.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Description
Access Reader *	SECOM TAIWAN	OPC001C/2AOANTWSECOMOPC001C	0.1m Unshielded DC Power Cord
Battery	YUASA	YTX9-BS	0.3m Unshielded DC Power Cord

Remark "*" means equipment under test.

4. RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

According to 15.225, the requirement of radiated emission is:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

4.2 Measurement Procedure

- 1. Setup the configuration per figure 1 and 2 for frequencies measured below 30 MHz and 30 MHz~1000MHz respectively.
- 2. For radiated emission measurements, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site.
- 3. For radiated emission measurements, set the spectrum analyzer on a 100 kHz resolution bandwidth for each frequency measured in step 2.
- 4. For emission frequencies measured in 30 MHz~1000MHz, the search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.
- 7. Check the three frequencies of highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.
- 8. For emission frequencies measured below 30 MHz, the search antenna is to be set in horizontal and vertical polarized orientation respectively. Rotate the loop antenna when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna rotation again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.

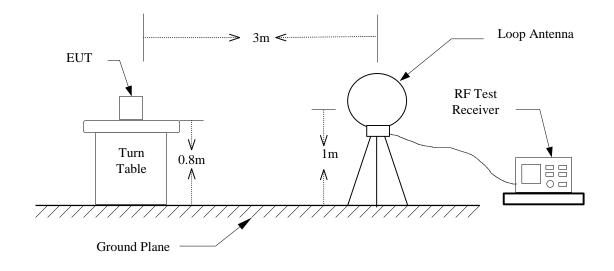
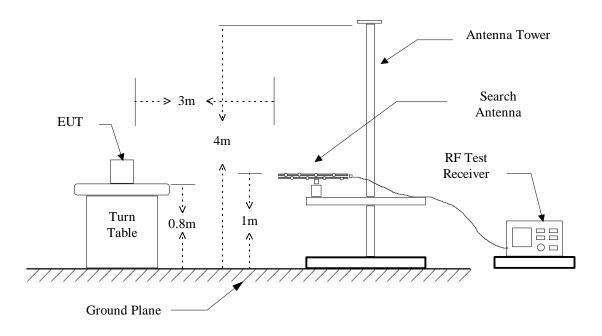


Figure 1 : Frequencies measured below 30 MHz configuration

Figure 2 : Frequencies measured above 30 MHz configuration



(dBµV/m)

19.80

-14.4

(dBµV/m)

84.0

29.5

4.3 Test Data

4.3.1 Fundamental, harmonics and spurious emissions below 30MHz

Operation Mode : Transmitting

(H/V)

V

V

Test Date: Jul. 06, 2017		<u>7</u>	Temperature	ure : <u>22</u> °C		Humidity	: <u>52</u> %		
	Frequency	Antenna	Meter	Corrected	Amplifier	Result	Result	Limit	
		Pol	Reading	Factor		@3m	@30m	@30m	

(dB)

34.90

35.90

(dB)

28.0

28.0

(dBµV/m)

59.80

25.6

27.123 Note :

(MHz)

13.562

1. Result = *Reading* + *C. Factor* - *Amplifier*

(dBµV)

52.90

17.7

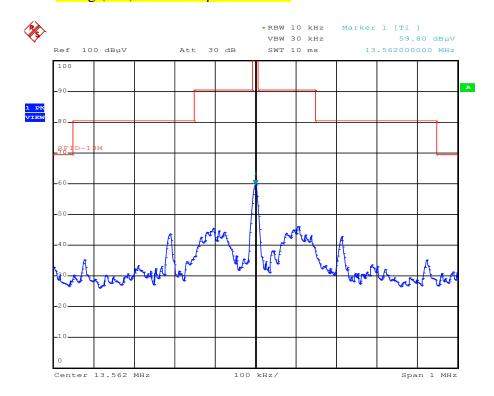
- 2. If the result of peak value is under the limit of Quasi-Peak, the Quasi-Peak value doesn't need to be measured.
- 3. Remark "----" means that the emissions level is too low to be measured.
- 4. With a distant extrapolation of $40\log(30m/3m)$ on the offset level of receiver during the test.

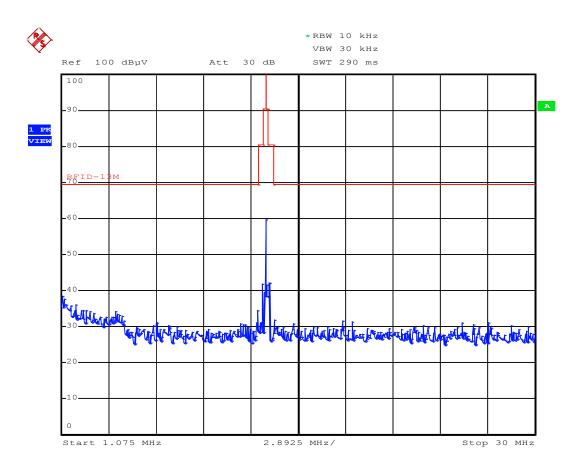
Limit Calculation:

Fundamental (\$15.225(a)): 20 log (15848) = 84.0 dBµV/m @30m Harmonic < 30MHz (\$15.225(d)): 20 log (30) = 29.5 dBµV/m @30m Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz:

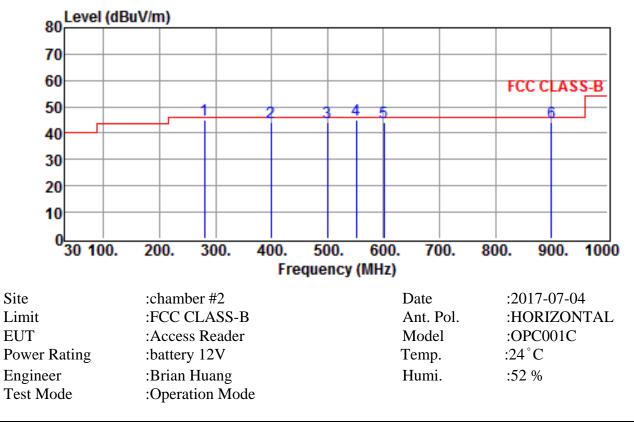
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20 \log (334) = 50.5 \text{ dB}\mu \text{V/m} @ 30 \text{m}
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Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz: $20 \log (106) = 40.5 \text{ dB}\mu \text{V/m} @30\text{m}$





4.3.2 30MHz – 1GHz



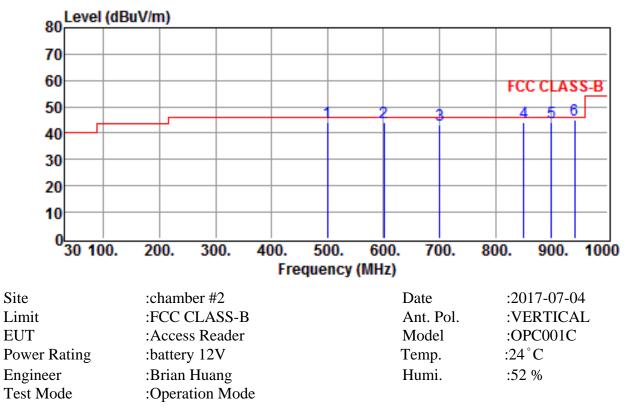
Freq	Reading	Correction	Result	Limits	Over limit	Detector
		Factor				
MHz	dBµV	dB	dBµV/m	dBµV/m	dB	
280.2600	49.27	-4.48	44.79	46.00	-1.21	QP
399.5700	45.53	-1.43	44.10	46.00	-1.90	QP
499.4800	44.22	-0.14	44.08	46.00	-1.92	QP
550.8900	44.44	0.47	44.91	46.00	-1.09	QP
600.3600	43.05	1.15	44.20	46.00	-1.80	QP
900.0900	37.82	6.34	44.16	46.00	-1.84	QP

Note :

1. Result = Reading + Corrected Factor

2. Corrected Factor = Antenna Factor + Cable Loss

3. The margin value=Limit - Result



Freq	Reading	Correction	Result	Limits	Over limit	Detector
		Factor				
MHz	dBµV	dB	dBµV/m	dBµV/m	dB	
499.4800	44.36	-0.14	44.22	46.00	-1.78	QP
600.3600	42.99	1.15	44.14	46.00	-1.86	QP
700.2700	40.39	2.92	43.31	46.00	-2.69	QP
850.6200	39.12	5.00	44.12	46.00	-1.88	QP
900.0900	37.75	6.34	44.09	46.00	-1.91	QP
940.8300	37.50	7.29	44.79	46.00	-1.21	QP

Note :

1. Result = Reading + Corrected Factor

2. Corrected Factor = Antenna Factor + Cable Loss

3. The margin value=Limit - Result

4.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Result = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Loop Antenna	EMCO	6512	2016/10/12	2017/10/11
EMI Test Receiver	Rohde & Schwarz	ESCI	2016/09/07	2017/09/06
Spectrum Analyzer	Rohde & Schwarz	FSP 40	2016/10/03	2017/10/02
Bi-Log Antenna	ETC	MCTD 2786	2016/07/15	2017/07/14
Log-periodic Antenna	EMCO	3146	2017/07/05	2018/07/04
Biconical Antenna	EMCO	3110B	2017/07/05	2018/07/04
Amplifier	HP	8447D	2016/09/26	2017/09/25

4.5 Radiated Test Equipment

4.8 Measuring Instrument Setup

Explanation of measuring instrument setup in frequency band measured is as following :

Frequency Band	Instrument	Detector	IF Bandwidth
9 kHz ~ 150 kHz	EMI Test Receiver	QP	200 Hz
9 KHZ ~ 130 KHZ	EMI Test Receiver	PK/AV	200 Hz
150 kHz ~ 30 MHz	EMI Test Receiver	QP	9 kHz
$150 \text{ KHZ} \approx 50 \text{ WHZ}$	EMI Test Receiver	PK/AV	9 kHz
30 ~ 1000 MHz	EMI Test Receiver	QP	120 kHz
50 ** 1000 WHIL	Spectrum Analyzer	PK	RBW: 100 kHz
			VBW: 100 kHz

NOTE:

The radiated emission tests of frequency below 30MHz were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

5 FREQUENCY STABILITY MEASUREMENT

5.1 Provisions Applicable

According to sec. 15.225(e) 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. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.2 Measurement Procedure

A) Frequency stability versus environmental temperature

- 1. Setup the configuration per figure 3 for frequencies measured at an environmental chamber set for a temperature of 20° C.
- Turn on EUT and set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 30 kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
- 3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- 4. Repeat step 2 with a 10°C decreased per stage until the lowest temperature -20°C is measured, record all measurement frequencies.
- B) Frequency stability versus input voltage
- 1. Setup the configuration per figure 3 for frequencies measured at an environmental chamber set for a temperature of 20° C.

- 2. Set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 30 kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
- 3. The EUT is powered with the DC Power Supply, supplied it with 85% and 115% voltage, and measured the EUT operating frequency.

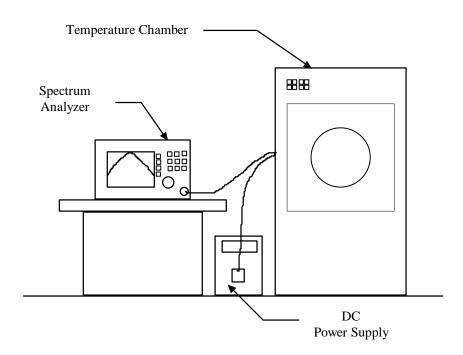


Figure 3 : Frequency stability measurement configuration

5.3 Measurement Instrument

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP40	2016/10/03	2017/10/02
Temperature Chamber	ESPEC	EFL-3	2017/05/10	2018/05/09

5.4 Measurement Data

A1. Frequency stability versus enviroment tempture

 Test Date:
 Jul. 10, 2017
 Temperature
 : 22 °C
 Humidity
 : 52 %

Reference	Reference Frequency : 13.56 MHz			Lim	it:0.01%				
Enviroment	Power	Frequer	ncy measure	ed with tim	e elapsed				
Tempture	Supplied	Sta	rtup	rtup 2 minute		5 minute		10 minute	
(°C)	(Vdc)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50		13.5602	0.00147	13.5597	-0.00221	13.5597	-0.00221	13.5602	0.00147
40		13.5604	0.00295	13.5608	0.00590	13.5604	0.00295	13.5604	0.00295
30		13.5590	-0.00737	13.5608	0.00590	13.5591	-0.00664	13.5590	-0.00737
20	12	13.5602	0.00147	13.5601	0.00074	13.5595	-0.00369	13.5602	0.00147
10		13.5607	0.00516	13.5602	0.00147	13.5598	-0.00147	13.5607	0.00516
0		13.5601	0.00074	13.5598	-0.00147	13.5599	-0.00074	13.5601	0.00074
-10		13.5590	-0.00737	13.5605	0.00369	13.5602	0.00147	13.5590	-0.00737
-20		13.5601	0.00074	13.5604	0.00295	13.5605	0.00369	13.5601	0.00074

A2. Frequency stability versus input voltage (±15%)

Reference Frequency : 13.56 MHz Limit : 0.01%									
Enviroment	Power	Frequen	Frequency measured with time elapsed						
Tempture	Supplied	Sta	Startup 2 minute		5 minute		10 minute		
(°C)	(Vdc)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
20	13.8	13.5610	0.00737	13.5602	0.00147	13.5593	-0.00516	13.5610	0.00737
20	10.2	13.5592	-0.00590	13.5592	-0.00590	13.5597	-0.00221	13.5592	-0.00590

6. CONDUCTED EMISSION MEASUREMENT

6.1 Description

This EUT is excused from investigation of conducted emission, for it is powered by DC battery only. According to §15.207 (d), measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

7 ANTENNA REQUIREMENT

7.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 Antenna Construction

The antenna is permanently attached to the main PCB, no consideration of replacement. Please see photos submitted in Exhibit B.

8 OPERATION BANDWIDTH REQUIREMENT

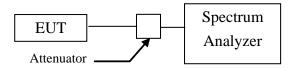
8.1 Standard Applicable

According to §15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

8.2 Measurement Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value. The settings of spectrum analyzer is as followings.
 - 1) Set RBW = 10 kHz.
 - 2) Set the video bandwidth (VBW) \geq RBW.
 - 3) Detector = Peak.
 - 4) Trace mode = max hold.
 - 5) Sweep = auto couple.
 - 6) Allow the trace to stabilize.
 - 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.
- 3. Repeat above procedures until all frequencies measured were complete.

Figure 4: Emission bandwidth measurement configuration.



8.3 Measurement Equipment

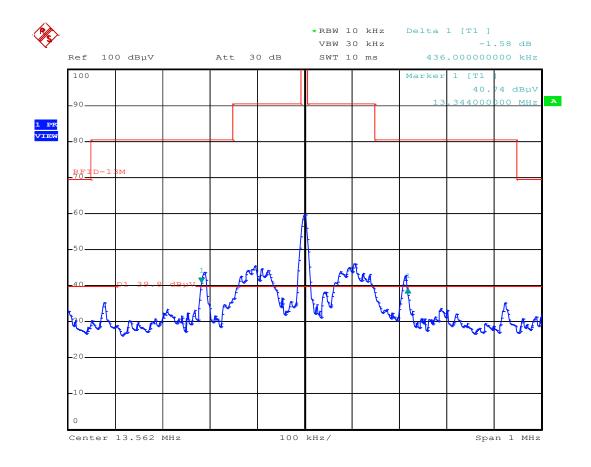
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP40	2016/10/03	2017/10/02

8.4 Measurement Data

Test Date : <u>Jul. 10, 2017</u> Temperature : <u>22</u>

ture : $\underline{22}$ °C Humidity : $\underline{52}$ %

a) 20 dB Emission Bandwidth is 436.00 kHz



The 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section 15.225.