

#### Report No.SH17070007W01





# FCC RF TEST REPORT

Issued to

Hangzhou CareoMedic Tech Co.,Ltd.

For

#### Immunofluorescence Analyzer

Model Name : EVA3000

Trade Name : /
Brand Name : /

Standard : 47 CFR Part 15, Subpart C

ANSI C63.10-2013

FCC ID : 2ANLGEVA3000TK1

Test date : Nov.24,2017 to Nov.30,2017

Issue date : Nov.30,2017

by Shanghai Skylabs Co., Ltd.

Tested by Wn horg fe

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Review by W unn knit on

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## **Change History**

Issue	Date	Reason for change
1.0	Nov.30,2017	First edition



### 1. General Information

### **1.1** Applicant

#### Hangzhou CareoMedic Tech Co.,Ltd.

Rm. D2201-D2208, D2210-D2213, Incubator Bldg. No. 2, 452 No.6 St., 452 No.6 St.,

Incubator Bldg. No. 2

452 No.6 St.,

Hangzhou HEDA, China

#### **1.2** Manufacturer

#### Hangzhou CareoMedic Tech Co.,Ltd.

Area C, Floors 2nd, Building No.1, No.550 Yinhai Rd., 310018, Hangzhou, China

### **1.3** Description of EUT

EUT Name.....: Immunofluorescence Analyzer

Model Name ....: EVA3000

Brand Name / / Trade Name / /

Hardware Version ...... V 1.0 Software Version ...... V 1.0

Modulation Type ...... Bluetooth V4.0:1Mbps(GFSK), FHSS

Frequency Range ...... 2.402GHz - 2.480GHz (at interval of 2MHz)

Channel Number....: 40

EUT Stage .....: Production Unit Antenna Type.....: PCB antenna

Antenna Gain...... 2 dBi

#### *NOTE 1:*

The EUT is a Immunofluorescence Analyzer. It contains Bluetooth Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth Module is F(MHz)=2402+2\*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 19 (2440MHz) and 39 (2480MHz).

#### NOTE 2:

For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacture.



### 2. Facilities and Accreditations

### **2.1** Test Facility

Shanghai Skylabs Co., Ltd. Skylabs is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6644. A 9\*6\*6(m) full/semi-anechoic chamber was used for the radiated emissions test.

### **2.2** Environmental Conditions

Ambient temperature: 15~35 ℃ Relative humidity: 30~60%

Atmosphere pressure: 86-106kPa

## **2.3** Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission: ±1.76dE Uncertainty of Radiated Emission: ±3.16dB



# **2.4** List of Equipments Used

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU26	200880	2017.2.24	1year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Power Splitter	Mini-Circuits	ZFRSC-183-S+	765001016	(n.a.)	(n.a.)
Attenuator 1	Resnet	10dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)
Power supplier	NF	ES2000S	9087735	2017.9.24	1year
Full/Semi-Anechoic	CHENGYU	9.2×6.25×6.15m	SAR	2015.9.14	222000
Chamber	CHENGIU	9.2 ×0.23 ×0.13III	SAK	2013.9.14	3year
EMI Test Receiver	R&S	ESCI7	100787	2017.2.24	1year
LISN	TESEQ	NNB 51	33285	2017.2.24	1year
Power Meter	R&S	NRVS	100445	2017.9.21	1year
Power Sensor	R&S	NRV-Z32	10056	2017.9.21	1year
Personal Computer	HP	6300P	CNG24296YW	(n.a.)	(n.a.)
Test Antenna-Horn	Schwarzbeck	BBHA9170	BBHA91970171	2017.9.21	1year
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	9120D-1033	2017.5.23	1year
Test Antenna-Log	Schwarzbeck	VULB 9163	9163-561	2017.9.24	1year
Test Antenna-Loop	Rohde&Schwarz	FMZB 1519	1519-025	2017.9.21	1year
RF Cable	(n.a.)	0-25GHz	(n.a.)	(n.a.)	(n.a.)

### NOTE:

Equipments listed above have been calibrated and are in the period of validation.



### 3. Test Standards and Results

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC Part 15 Subpart C §15.247 ANSI C63.10-2013 KDB558074 D01 v04

#### *NOTE:*

(1)All test items were verified and recorded according to the standards and without any deviation during the test.

(2) This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart C (Bluetooth, 2.4 GHz ISM band radiators), recorded in a separate test report.

Test items and the results are as bellow:

No.	FCC Rules	Description	Result
1	15.203	Antenna Requirement	Pass
2	15.247(b)	Peak Output power	Pass
3	15.247(a)	6dB Bandwidth	Pass
4	15.247(d)	Conducted Spurious Emission and Band Edge	Pass
5	15.247(d)	Restricted Frequency Bands	Pass
6	15.207	Conducted Emission	Pass
7	15.247(d) 15.209	Radiated Emission	Pass
8	15.247(e)	Power Spectral Density (PSD)	Pass



### 4. 47 CFR Part 15C

## **4.1** Antenna requirement

## **4.1.1** Applicable standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

## **4.1.2** Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.



### 5. Test Result

### **5.1** Peak Output Power

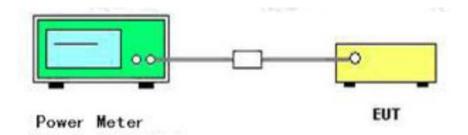
## **5.1.1** Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

## **5.1.2** Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

### A. Test Setup:



## **5.1.3** Test Result of Maximum Conducted Output Peak Power

Channel	Frequency	Measured Outp	Li	mit	Verdict	
Channel	(MHz)	dBm	W	dBm	W	verdict
0	2402	-0.51	0.00089			Pass
19	2440	-0.52	0.00089	30	1	Pass
39	2480	-0.37	0.00092			Pass



### **5.2** 6dB Bandwidth

### **5.2.1** Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### **5.2.2** Test Description

See section 5.1.2 of this report.

#### 5.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

#### A. Test Verdict:

Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Refer to plot	Limit (KHz)	Result
0	2402	690.6	Plot A	≥500	Pass
19	2440	690.9	Plot B	≥500	Pass
39	2480	694.6	Plot C	≥500	Pass

#### **B.** Test Plots:



(Plot A:Channel 0:2402MHz)





(Plot B:Channel 19:2440MHz)



(Plot C:Channel 39:2480MHz)



## **5.3** Conducted Spurious Emissions

## **5.3.1** Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### **5.3.2** Test Description

See section 5.1.2 of this report.

#### **5.3.3** Test Result

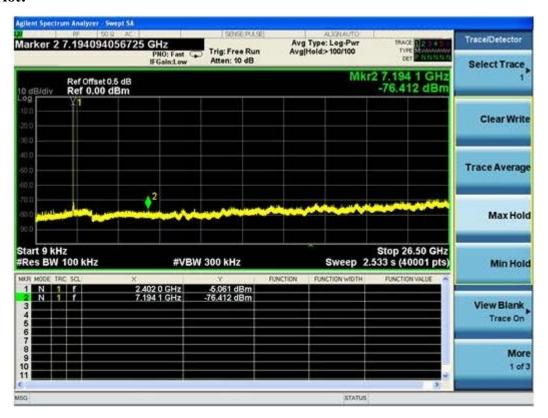
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

#### A. Test Verict:

Channel Frequency (MHz)	Frequency	Measured max out		Lim				
	of band	Refer to plot	Carrier	Calculated	Result			
	(1-1112)	emission(dBm)		level	20dBc limit			
0	2402	-76.412	Plot A1/A2	-5.061	-25.061	Pass		
19	2440	-76.972	Plot B	-5.792	-25.792	Pass		
39	2480	-76.653	Plot C1/C2	-4.707	-24.707	Pass		



#### **B. Test Plot:**

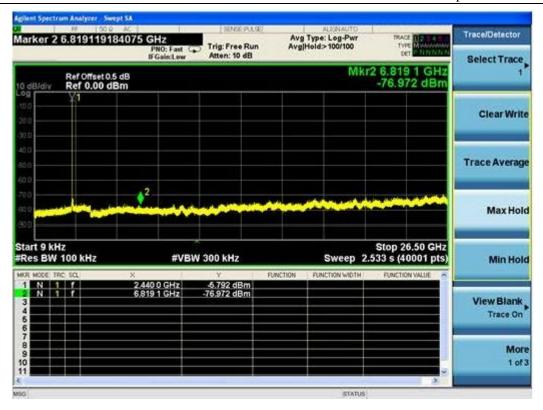


(Plot A1:Channel0:2402MHz 30MHz~25GHz)

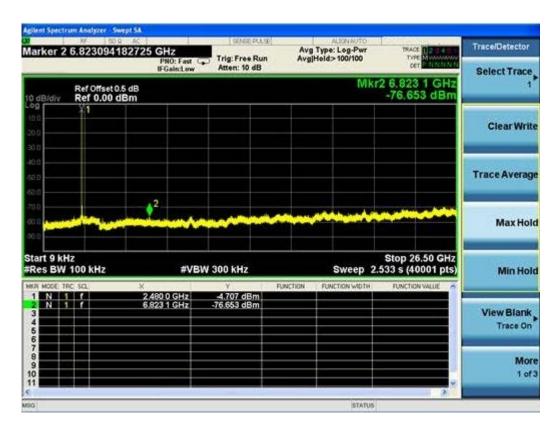


(Plot A2: Channel 0: 2402MHz Band Edge)



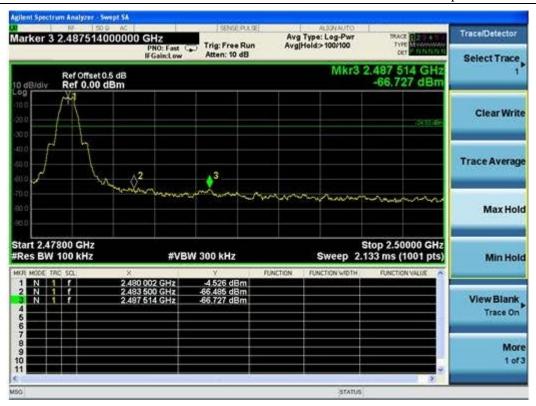


(Plot B: Channel 19:2440MHz 30MHz~25GHz)



(PlotC1:Channel39:2480MHz 30MHz~25GHz)





(PlotC2:Channel 39:2480MHz Band Edge)



### **5.4** Power Spectral Density(PSD)

### **5.4.1** Requirement

According to FCC section 15.247(e), the same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used

### **5.4.2** Test Description

See section 5.1.2 of this report.

#### **5.4.3** Test Result

#### A. Test Verdict

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Refer to plot	Limit (dBm/3kHz)	Result
0	2402	-19.621	Plot A	8	Pass
19	2440	-19.665	Plot B	8	Pass
39	2480	-19.197	Plot C	8	Pass

#### **B.** Test Plot

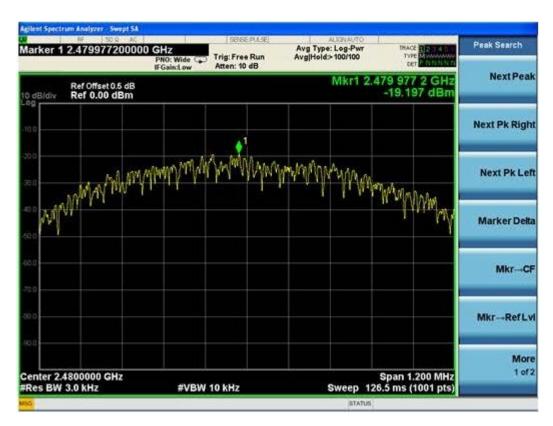


(Plot A: Channel = 0, 2402MHz)





(Plot B: Channel = 19, 2440MHz)



(Plot C: Channel = 39, 2480MHz)

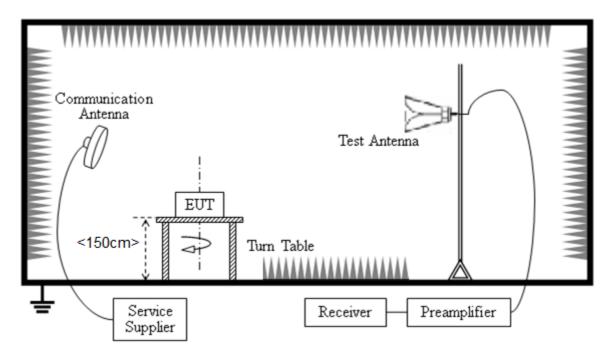


### **5.5** Restricted Frequency Bands

### **5.5.1** Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, , In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### **5.5.2** Test Description



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

#### **5.5.3** Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

E [dBV/m] =UR + AT + AFactor [dB]; AT =LCable loss [dB]-Gpreamp [dB]

AT: Total correction Factor except Antenna

**UR**: Receiver Reading

Gpreamp: Preamplifier Gain AFactor: Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal

polarity, and only the worse test condition (vertical) was recorded in this test report.

The lowest and highest channels are tested to verify the Restricted Frequency Bands



#### Tx-2402

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2377.41	43.71	32.89	35.16	3.51	44.95	74	-29.05	Peak	Horizontal
2377.43	34.56	32.90	35.16	3.51	35.81	54	-18.19	Average	Horizontal
2390.00	48.18	32.92	35.16	3.54	49.48	74	-24.52	Peak	Horizontal
2389.97	37.87	32.92	35.16	3.54	39.17	54	-14.83	Average	Horizontal
2377.41	44.14	32.89	35.16	3.51	45.38	74	-28.62	Peak	Vertical
2377.43	34.67	32.90	35.16	3.51	35.92	54	-18.08	Average	Vertical
2390.00	49.33	32.92	35.16	3.54	50.63	74	-23.37	Peak	Vertical
2389.97	39.42	32.92	35.16	3.54	40.72	54	-13.28	Average	Vertical

### Tx-2480

Freq. MHz	Reading Level dBuV	Ant. Fac.	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	46.35	33.06	35.18	3.60	47.83	74	-26.17	Peak	Horizontal
2483.53	37.06	33.08	35.18	3.60	38.56	54	-15.44	Average	Horizontal
2486.78	43.57	33.08	35.18	3.62	45.09	74	-28.91	Peak	Horizontal
2486.80	34.11	33.08	35.18	3.62	35.63	54	-18.37	Average	Horizontal
2483.50	47.69	33.06	35.18	3.60	49.17	74	-24.83	Peak	Vertical
2483.5	38.01	33.08	35.18	3.60	39.51	54	-14.49	Average	Vertical
2486.78	44.53	33.08	35.18	3.62	46.05	74	-27.95	Peak	Vertical
2486.80	34.68	33.08	35.18	3.62	36.20	54	-17.80	Average	Vertical



#### **5.6** Conducted Emission

### **5.6.1** Requirement

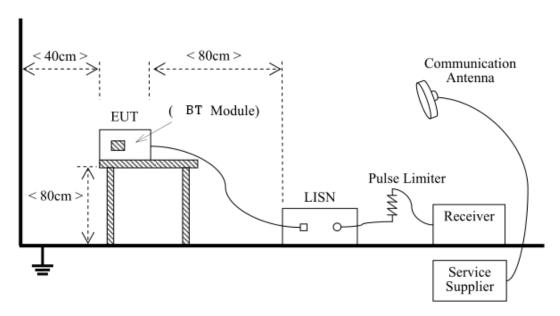
According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a  $50\mu$ H/50 $\Omega$  line impedance stabilization network(LISN).

Fragueney range (MHz)	Conducted Limit (dBµV)				
Frequency range (MHz)	Quai-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

#### NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

### **5.6.2** Test Description



The EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. Power supplier is setting to 120V/60Hz. The set-up and test methods were according to ANSI C63.10:2013

#### **5.6.3** Test result

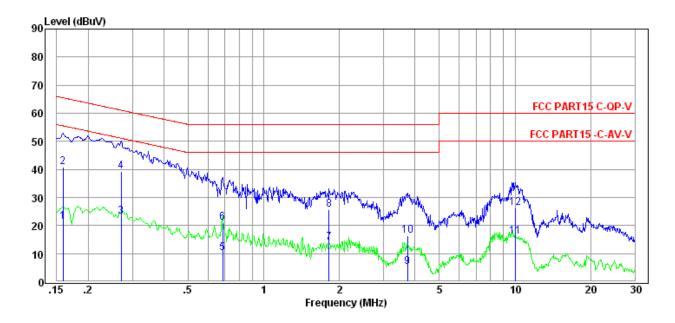


Line	Freq	Result	Limit	Margin
Line	MHz	dBuV	dBuV	dB
Average	0.16	21.40	55.52	34.12
QP	0.16	40.84	65.52	24.68
Average	0.27	23.16	51.07	27.91
QP	0.27	39.33	61.07	21.74
Average	0.69	10.08	46.00	35.92
QP	0.69	20.99	56.00	35.01
Average	1.82	14.02	46.00	31.98
QP	1.82	25.82	56.00	30.18
Average	3.74	5.33	46.00	40.67
QP	3.74	16.26	56.00	39.74
Average	10.02	16.14	50.00	33.86
QP	10.02	26.42	60.00	33.58

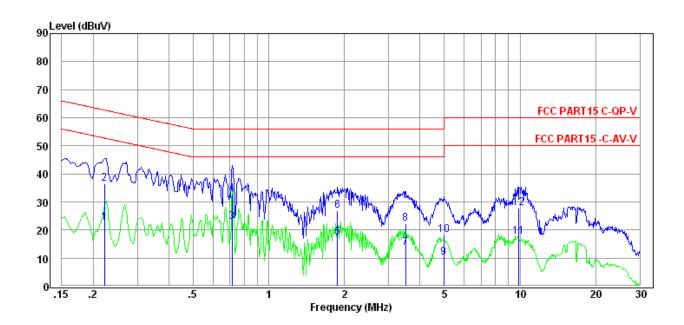
Neutral	Freq MHz	Result dBuV	Limit dBuV	Margin dB
Average	0.22	22.46	52.74	30.28
QP	0.22	36.38	62.74	26.36
Average	0.72	22.87	46.00	23.13
QP	0.72	32.82	56.00	23.18
Average	1.88	17.35	46.00	28.65
QP	1.88	26.87	56.00	29.13
Average	3.51	13.47	46.00	32.53
QP	3.51	22.22	56.00	33.78
Average	4.98	10.11	46.00	35.89
QP	4.98	18.36	56.00	37.64
Average	9.91	17.50	50.00	32.50
QP	9.91	27.95	60.00	32.05



### Test Plot:



(Plot A: L Phase)



(Plot B: N Phase)



#### **5.7** Radiated Emission

### **5.7.1** Requirement

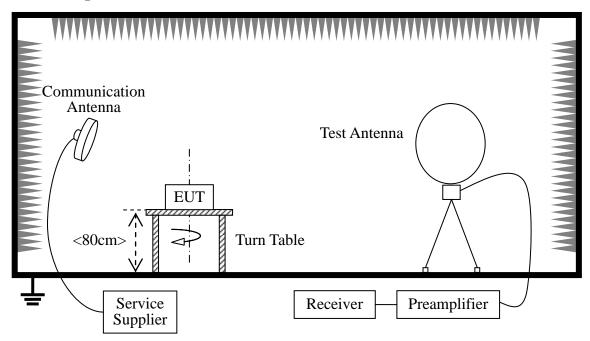
According to FCC section 15.247(c), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (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

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)	Limit(dB μV/m)	Detector
0.009-0.490	2400/F(kHz)	300	/	/
0.490-1.705	24000/F(kHz)	30	/	/
1.705-30	30	30	/	/
30 - 88	100	3	40	QP
88 - 216	150	3	43.5	QP
216 - 960	200	3	46	QP
960 - 1000	500	3	54	QP
Above 1000	500	3	54	AV

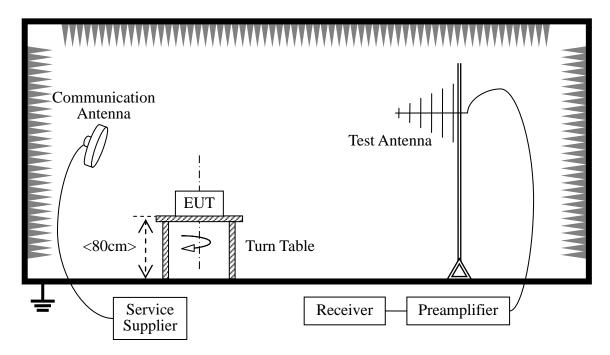
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

## **5.7.2** Test setup

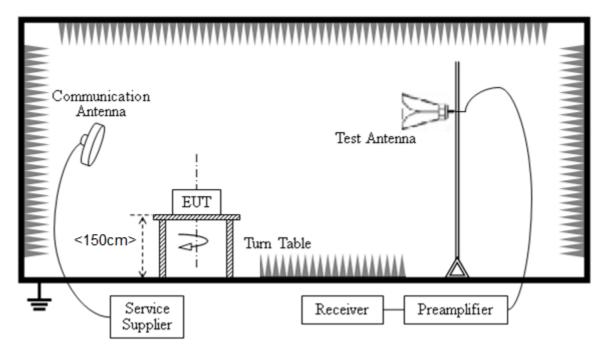


Radiated Emissions Below 30MHz





Radiated Emissions 30-1000MHz



Radiated Emissions above 1000MHz

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10-2013. Below 1GHz, the EUT was set-up on insulator 80cm above the Ground Plane. Above 1GHz, the EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the Bluetooth Module is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to



transmit at maximum power.

For the Test Antenna: In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength, the azimuth range of turntable was 0o to 360o, the receive antenna has two polarizations horizontal and vertical. When doing measurements above 1GHz, the EUT was placed within the 3dB beam width range of the horn antenna, and the EUT was tested in 3 orthogonal positions as recommended in ANSI C63.10 for Radiated Emissions and the worst-case data was presented.

#### 5.7.3 Test Result

#### A. Test Result for 9kHz~30MHz

Frequency	Level	Over Limit	Limit Line	Domonis
(MHz)	(dBuV)	(dB)	(dBuV)	Remark
		20		See Note

#### Note:

- a) The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
- b) Distance extrapolation factor =  $40 \log (\text{specific distance / test distance}) (dB);$
- c) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### B. Test Result for above 30MHz ~ 10th Harmonic

#### Channel 0: 2402MHz

Frequency (MHz)	Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Antenna Polarization	Detector	Result
46.67	21.02	40.00	18.98	Horizontal	QP	PASS
109.80	21.86	43.50	21.64	Horizontal	QP	PASS
125.01	34.68	43.50	8.82	Horizontal	QP	PASS
213.76	28.35	43.50	15.15	Horizontal	QP	PASS
307.83	33.44	46.00	12.56	Horizontal	QP	PASS
359.19	33.38	46.00	12.62	Horizontal	QP	PASS
4804.16	52.60	74.00	21.40	Horizontal	Peak	PASS
4804.19	43.23	54.00	10.77	Horizontal	Average	PASS
32.29	31.01	40.00	8.99	Vertical	QP	PASS
36.77	30.56	40.00	9.44	Vertical	QP	PASS
42.30	28.16	40.00	11.84	Vertical	QP	PASS
104.54	30.86	43.50	12.64	Vertical	QP	PASS
125.01	36.38	43.50	7.12	Vertical	QP	PASS
356.68	32.00	46.00	14.00	Vertical	QP	PASS
4804.16	54.75	74.00	19.25	Vertical	Peak	PASS
4804.19	45.57	54.00	8.43	Vertical	Average	PASS



## Channel 19:2440MHz

Frequency (MHz)	Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Antenna Polarization	Detector	Result
40.14	18.40	40.00	21.60	Horizontal	QP	PASS
66.50	16.55	40.00	23.45	Horizontal	QP	PASS
97.80	16.35	43.50	27.15	Horizontal	QP	PASS
211.53	18.74	43.50	24.76	Horizontal	QP	PASS
263.82	24.53	46.00	21.47	Horizontal	QP	PASS
560.69	25.12	46.00	20.88	Horizontal	QP	PASS
4880.10	53.14	74.00	20.86	Horizontal	Peak	PASS
4880.13	43.98	54.00	10.02	Horizontal	Average	PASS
47.66	22.19	40.00	17.81	Vertical	QP	PASS
62.43	21.14	40.00	18.86	Vertical	QP	PASS
77.59	19.29	40.00	20.71	Vertical	QP	PASS
88.96	22.16	43.50	21.34	Vertical	QP	PASS
195.82	21.58	43.50	21.92	Vertical	QP	PASS
362.98	21.94	46.00	24.06	Vertical	QP	PASS
4880.10	55.34	74.00	18.66	Vertical	Peak	PASS
4880.13	45.85	54.00	8.15	Vertical	Average	PASS

### Channel 39:2480MHz

Frequency (MHz)	Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Antenna Polarization	Detector	Result
43.51	17.48	40.00	22.52	Horizontal	QP	PASS
66.50	16.05	40.00	23.95	Horizontal	QP	PASS
107.51	16.41	43.50	27.09	Horizontal	QP	PASS
192.42	16.06	43.50	27.44	Horizontal	QP	PASS
344.39	20.68	46.00	25.32	Horizontal	QP	PASS
893.86	32.11	46.00	13.89	Horizontal	QP	PASS
4960.17	55.03	74.00	18.97	Horizontal	Peak	PASS
4960.20	45.91	54.00	8.09	Horizontal	Average	PASS
37.95	18.01	40.00	21.99	Vertical	QP	PASS
58.61	20.95	40.00	19.05	Vertical	QP	PASS
104.90	17.37	43.50	26.13	Vertical	QP	PASS
229.29	17.29	46.00	28.71	Vertical	QP	PASS
362.98	25.54	46.00	20.46	Vertical	QP	PASS
578.67	25.56	46.00	20.44	Vertical	QP	PASS
4960.17	57.77	74.00	16.23	Vertical	Peak	PASS



Frequency (MHz)	Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Antenna Polarization	Detector	Result
4960.20	47.94	54.00	6.06	Vertical	Average	PASS



# **Annex A** Photos of the EUT





\*\* END OF REPORT \*\*