



# TEST REPORT

**Report Reference No.** ..... : **TRE1702010801** R/C.....: 25817  
**FCC ID** ..... : **2AODW-NRF24L01SMD**  
**Applicant's name** ..... : **SUNS Electric(Zhangzhou) Co.,Ltd.**  
**Address**..... : No.169 Wengjiao Road, Jiaomei Town, Taishang Investment Zone, Zhangzhou, Fujian Province, P.R.China  
**Manufacturer**..... : SUNS Electric(Zhangzhou) Co.,Ltd.  
**Address**..... : No.169 Wengjiao Road, Jiaomei Town, Taishang Investment Zone, Zhangzhou, Fujian Province, P.R.China  
**Test item description**..... : **wireless module**  
**Trade Mark**..... : SUNS  
**Model/Type reference** ..... : NRF24L01SMD+PA+LNA  
**Listed Model(s)** ..... : NRF24L01SMD+PA  
**Standard** ..... : **FCC CFR Title 47 Part 15 Subpart C Section 15.249**  
**Date of receipt of test sample**..... : Feb. 23, 2017  
**Date of testing**..... : Feb. 24, 2017 - Dec. 29, 2017  
**Date of issue**..... : Dec. 29, 2017  
**Result** ..... : **PASS**

Compiled by  
( position+printedname+signature) .. : File administrators Becky Liang

Supervised by  
(position+printedname+signature) ... : Project Engineer Jeff Sun

Approved by  
(position+printedname+signature) ... : RF Manager Hans Hu

**Testing Laboratory Name** ..... : **Shenzhen Huatongwei International Inspection Co., Ltd.**  
**Address**..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

**Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

## Contents

<b><u>1.</u></b>	<b><u>TEST STANDARDS AND REPORT VERSION</u></b>	<b><u>3</u></b>
1.1.	Test Standards	3
1.2.	Report version	3
<b><u>2.</u></b>	<b><u>TEST DESCRIPTION</u></b>	<b><u>4</u></b>
<b><u>3.</u></b>	<b><u>SUMMARY</u></b>	<b><u>5</u></b>
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	EUT operation mode	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<b><u>4.</u></b>	<b><u>TEST ENVIRONMENT</u></b>	<b><u>7</u></b>
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
4.5.	Equipments Used during the Test	9
<b><u>5.</u></b>	<b><u>TEST CONDITIONS AND RESULTS</u></b>	<b><u>10</u></b>
5.1.	Antenna requirement	10
5.2.	AC Power Conducted Emissions	11
5.3.	20 dB Occupied Bandwidth	14
5.4.	Radiated Emissions	16
<b><u>6.</u></b>	<b><u>TEST SETUP PHOTOS OF THE EUT</u></b>	<b><u>20</u></b>
<b><u>7.</u></b>	<b><u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u></b>	<b><u>21</u></b>

## 1. TEST STANDARDS AND REPORT VERSION

### 1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.249](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices.

### 1.2. Report version

Version No.	Date of issue	Description
00	Dec. 29, 2017	Original

## **2. TEST DESCRIPTION**

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emissions	15.207	Pass
20dB Occupied Bandwidth	15.215/15.249	Pass
Field strength of the Fundamental signal	15.249(a)	Pass
Spurious Emissions	15.209/15.249(a)	Pass
Band edge Emissions	15.205/15.249(d)	Pass

Remark: The measurement uncertainty is not included in the test result.

### 3. SUMMARY

#### 3.1. Client Information

Applicant:	SUNS Electric(Zhangzhou) Co.,Ltd.
Address:	No.169 Wengjiao Road, Jiaomei Town, Taishang Investment Zone,Zhangzhou, Fujian Province, P.R.China
Manufacturer:	SUNS Electric(Zhangzhou) Co.,Ltd.
Address:	No.169 Wengjiao Road, Jiaomei Town, Taishang Investment Zone,Zhangzhou, Fujian Province, P.R.China

#### 3.2. Product Description

Name of EUT:	wireless module
Trade Mark:	SUNS
Model No.:	NRF24L01SMD+PA+LNA
Listed Model(s):	NRF24L01SMD+PA
Power supply:	DC 2.6-3.6V
Adapter information:	-

##### 2.4G ISM

Operation frequency:	2402MHz/2440MHz/2480MHz
Channel number:	3
Modulation Type:	GFSK
Antenna type:	Integral antenna
Antenna gain:	0 dBi

### 3.3. EUT operation mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with large package sizes transmission.

### 3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	DC Power supply	Manufacturer :	Good Will Instrument Co.,Ltd.
		Model No. :	SPS-2415
		Manufacturer :	/
		Model No. :	/

### 3.5. Modifications

No modifications were implemented to meet testing criteria.

## **4. TEST ENVIRONMENT**

### **4.1. Address of the test laboratory**

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

### **4.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### **A2LA-Lab Cert. No. 3902.01**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **FCC-Registration No.: 762235**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

#### **IC-Registration No.: 5377B-1**

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

#### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

### 4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

### 4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to ISO/IEC 17025. Further more, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei is reported:

Test Items	Measurement Uncertainty	Notes
Conducted spurious emissions 9KHz-30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



#### 4.5. Equipments Used during the Test

Line Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	R&S	ESCI	101247	2017/11/11
2	Artificial Mains	Shwarzbeck	NNLK 8121	573	2017/11/11
3	Pulse Limiter	R&S	ESH3-Z2	101488	2017/11/11
4	Test Software	R&S	ES-K1	N/A	N/A
5	Test cable	ENVIROFLEX	3651	1101902	2017/11/11

20dB Occupied Bandwidth					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2017/11/11
2	Power Meter	Anritsu	ML2480B	100798	2017/11/11
3	Power Sensor	Anritsu	MA2411B	100258	2017/11/11
4	Test cable	FARPU	MCX-J	N/A	2017/11/11
5	Temporary antenna connector	D-LENP	NJ-SMAK	N/A	2017/11/11

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Field strength of the Fundamental signal/ Spurious Emissions/ Band edge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde&Schwarz	ESI 26	100009	2017/11/11
2	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	N/A
3	EMI Test Software	Rohde&Schwarz	ESK1	N/A	N/A
4	Loop Antenna	Rohde&Schwarz	HZ-9	838622\013	2017/11/11
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2017/04/05
6	Horn Antenna	ShwarzBeck	9120D	1011	2017/03/27
7	Broadband Horn Antenna	Shwarzbeck	BBHA9170	BBHA917047 2	2017/11/11
8	Preamplifier	Shwarzbeck	BBV9742	9742-196	2017/11/11
9	Broadband Preamplifier	Shwarzbeck	BBV 9721	9721-102	2017/11/11
10	Broadband Preamplifier	Shwarzbeck	BBV 9718	9718-247	2017/11/11
11	Turn Table	MATURO	TT2.0	/	N/A
12	Antenna Mast	MATURO	TAM-4.0-P	/	N/A
13	EMI Test Software	Audix	E3	N/A	N/A
14	Test Software	R&S	ES-K1	N/A	N/A
15	Test cable	Siva Cables Italy	RG 58A/U	W14.02	2017/11/11

The Cal.Interval was one year.

## 5. TEST CONDITIONS AND RESULTS

### 5.1. Antenna requirement

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

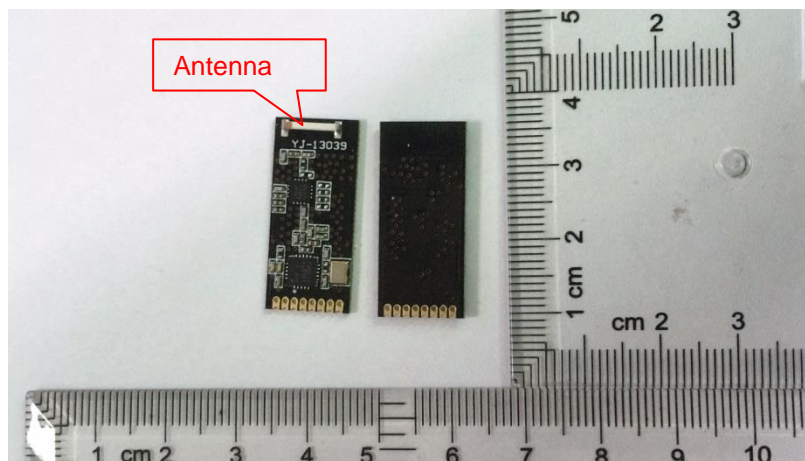
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

##### **Refer to statement below for compliance.**

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### Test Result:

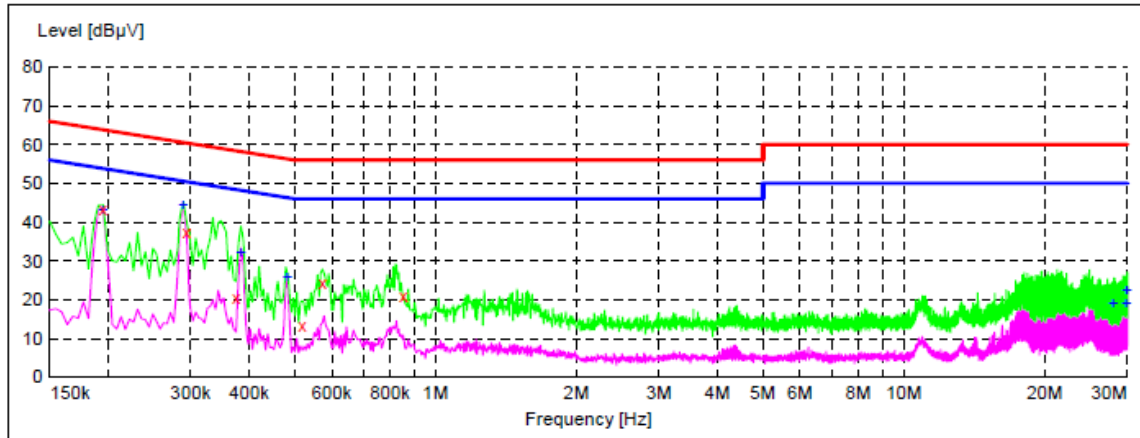
The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.





Test Line:

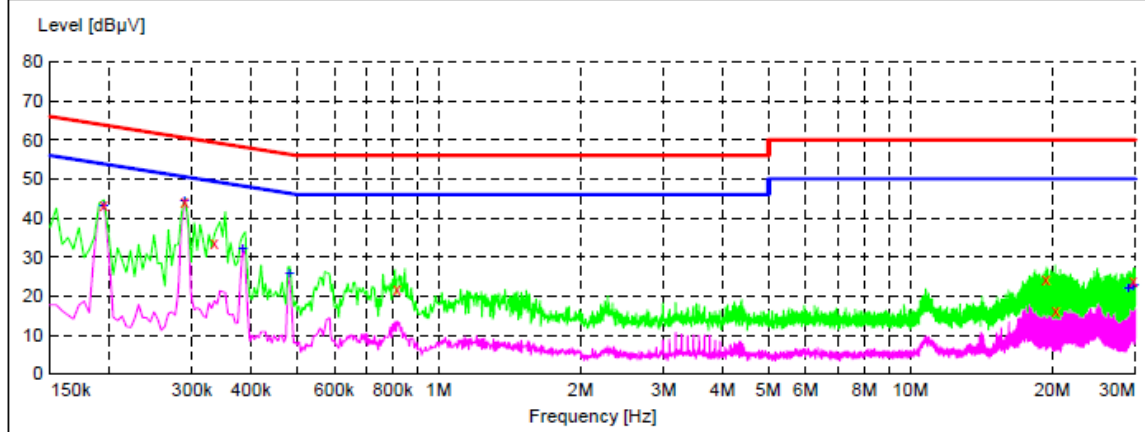
L



Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	43.40	10.0	64	20.4	QP	L1	GND
0.294000	37.30	9.9	60	23.1	QP	L1	GND
0.375000	20.60	9.9	58	37.8	QP	L1	GND
0.519000	13.40	10.0	56	42.6	QP	L1	GND
0.573000	24.30	10.0	56	31.7	QP	L1	GND
0.852000	21.10	10.0	56	34.9	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	43.50	10.0	54	10.3	AV	L1	GND
0.289500	44.40	9.9	51	6.1	AV	L1	GND
0.384000	32.20	9.9	48	16.0	AV	L1	GND
0.483000	25.80	9.9	46	20.5	AV	L1	GND
28.045500	19.30	10.8	50	30.7	AV	L1	GND
29.877000	19.00	10.9	50	31.0	AV	L1	GND
29.976000	22.60	10.9	50	27.4	AV	L1	GND

Test Line:

N



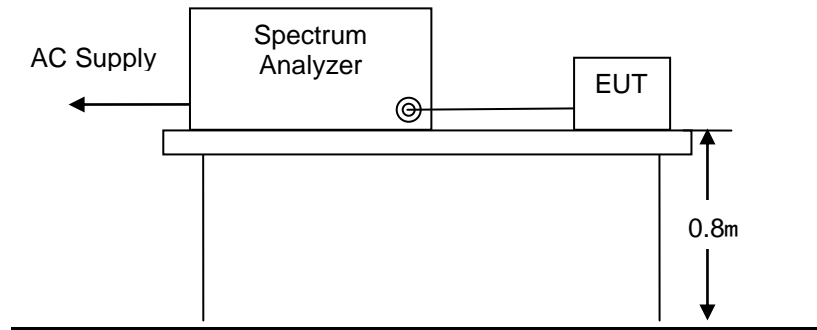
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	43.40	10.0	64	20.4	QP	N	GND
0.289500	44.30	9.9	61	16.2	QP	N	GND
0.334500	33.50	9.9	59	25.8	QP	N	GND
0.816000	21.80	10.0	56	34.2	QP	N	GND
19.369500	24.10	10.6	60	35.9	QP	N	GND
20.328000	16.20	10.6	60	43.8	QP	N	GND
29.679000	23.90	10.9	60	36.1	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	43.50	10.0	54	10.3	AV	N	GND
0.289500	44.50	9.9	51	6.0	AV	N	GND
0.384000	32.30	9.9	48	15.9	AV	N	GND
0.483000	25.80	9.9	46	20.5	AV	N	GND
29.004000	22.30	10.8	50	27.7	AV	N	GND
29.679000	22.50	10.9	50	27.5	AV	N	GND
29.778000	22.90	10.9	50	27.1	AV	N	GND

### 5.3. 20 dB Occupied Bandwidth

#### Limit

Operation frequency range 2400MHz~2483.5MHz.

#### TEST CONFIGURATION

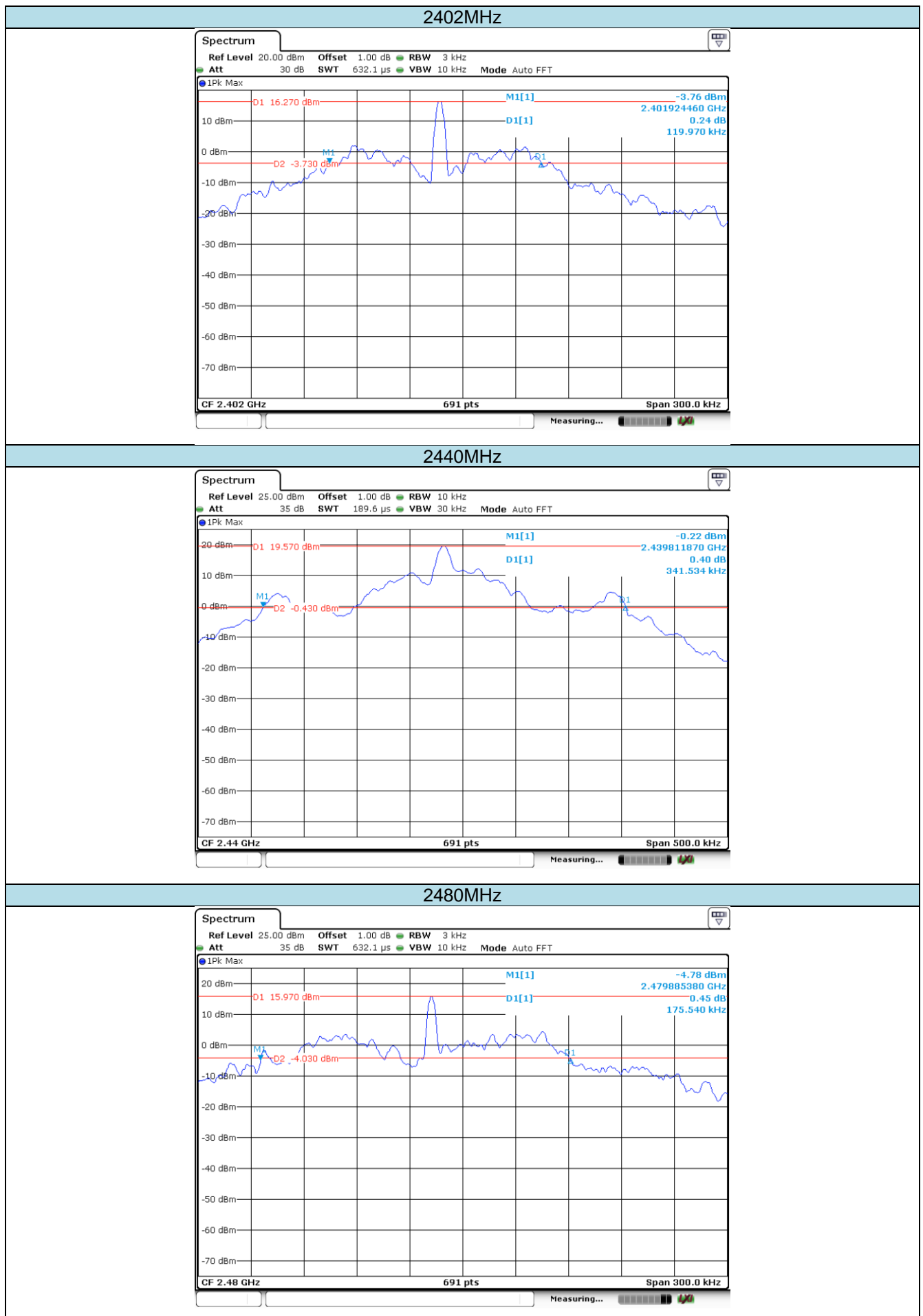


#### TEST PROCEDURE

- 1.As required by 47 CFR 15.215 and 47 CFR 15.249
2. The EUT connected to the spectrum analyzer was operated in linear scale and 2.0MHz span mode after tuning to the transmitter frequency.

#### TEST RESULTS

Channel Frequency(MHz)	20dB Bandwidth(MHz)	Result
2402	0.11997	PASS
2440	0.34153	PASS
2480	0.17554	PASS



## 5.4. Radiated Emissions

### LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table:

Frequency (MHz)	Distance(Meters)	Radiated(dBμV/m)	Radiated(μV/m)
0.009 - 0.490	300	$20 \cdot \log(2400/F(\text{kHz}))$	$2400/F(\text{kHz})$
0.490 - 1.705	30	$20 \cdot \log(24000/F(\text{kHz}))$	$24000/F(\text{kHz})$
1.705 - 30.0	30	29.54	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

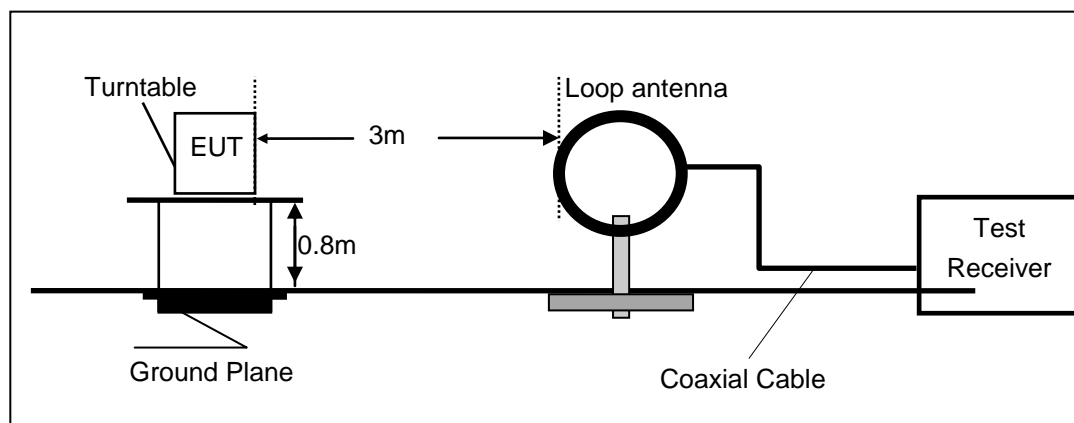
Remark: At frequencies below 30MHz,  $\text{Limit } 3\text{m(dBuV)} = \text{Limit } x\text{m(dBuV)} + 20\log(x\text{m}/3\text{m})$ ;  
At frequencies below 30MHz,  $\text{Limit } 3\text{m(dBuV)} = \text{Limit } x\text{m(dBuV)} + 40\log(x\text{m}/3\text{m})$ , x replace the number 10.30.300.

In addition to the provisions of §15.249, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

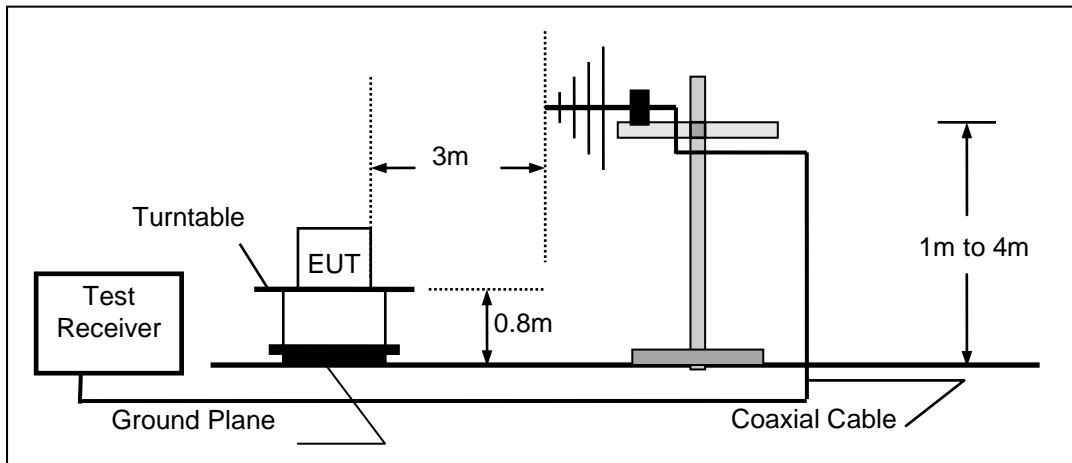
### TEST CONFIGURATION

Radiated Emission Test Set-Up  
Frequency range 9KHz–30MHz

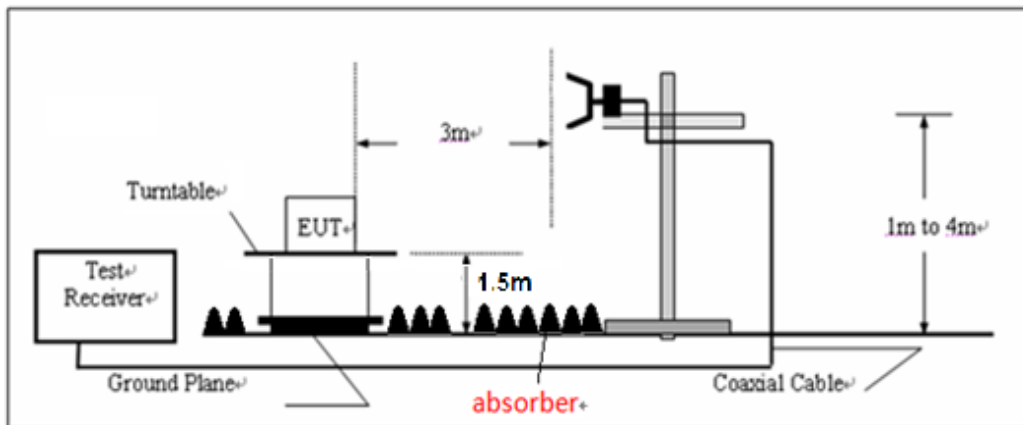




Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



## TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 0.8/1.5 meter above ground plane. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=QP, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) Above 1GHz, RBW=1MHz, VBW=3MHz Peak detector for Peak value  
RBW=1MHz, VBW=3MHz RMS detector for Average value.

Remark: "floor-standing equipment" Where possible, the antenna(s) of the EUT shall be located at a height of 1.5 m above the floor, and the intentional radiator circuitry shall be located within the system at a height of at least 0.8 m above the floor.

## TEST RESULTS

### ■ 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9KHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

Radiated emissions of fundamental emissions									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m) @3m	FCC Limit (dBuV/m) @3m	Margin (dB)	Detector	Polarization
2402.00	92.54	27.57	6.77	37.90	88.98	94.00	-5.02	Peak	Horizontal
2402.00	94.28	27.57	6.77	37.90	90.72	94.00	-3.28	Peak	Vertical
2440.00	89.15	27.69	6.80	37.89	85.75	94.00	-8.25	Peak	Horizontal
2440.00	91.24	27.69	6.80	37.89	87.84	94.00	-6.16	Peak	Vertical
2480.00	90.15	27.83	6.83	37.88	86.93	94.00	-7.07	Peak	Horizontal
2480.00	88.01	27.83	6.83	37.88	84.79	94.00	-9.21	Peak	Vertical

Band edge emissions									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detector
2400.00	51.48	27.53	6.75	37.87	47.89	54.00	-6.11	Horizontal	Peak
2400.00	50.48	27.53	6.75	37.87	46.89	54.00	-7.11	Vertical	
2483.50	49.46	27.85	6.83	37.87	46.27	54.00	-7.73	Horizontal	
2483.50	47.18	27.85	6.83	37.87	43.99	54.00	-10.01	Vertical	

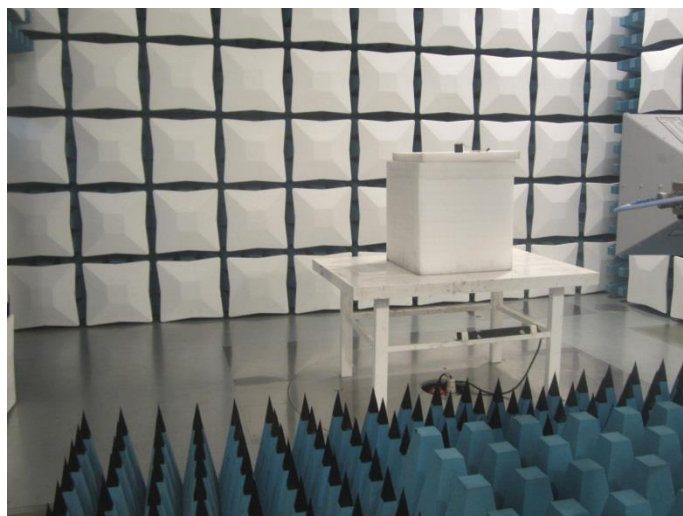
Spurious radiated emissions									
2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m) @3m	FCC Limit (dBuV/m) @3m	Over Limit (dB)	Detector	Polarization
4809.50	45.16	31.09	9.55	36.93	48.87	54.00	-5.13	Average	Horizontal
4809.50	57.85	31.09	9.55	36.93	61.56	74.00	-12.44	Peak	
7209.02	58.11	35.97	11.87	35.07	70.88	74.00	-3.12	Peak	
7209.02	37.56	35.97	11.87	35.07	50.33	54.00	-3.67	Average	
9611.66	33.25	38.17	13.73	35.19	49.96	54.00	-4.04	Average	
9611.66	41.46	38.17	13.73	35.19	58.17	74.00	-15.83	Peak	
12024.96	45.14	39.10	14.65	33.28	65.61	74.00	-8.39	Peak	
12024.97	31.27	39.10	14.65	33.28	51.74	54.00	-2.26	Average	Vertical
4809.50	46.57	31.09	9.55	36.93	50.28	54.00	-3.72	Average	
4809.50	57.14	31.09	9.55	36.93	60.85	74.00	-13.15	Peak	
7209.02	53.40	35.97	11.87	35.07	66.17	74.00	-7.83	Peak	
7209.02	35.76	35.97	11.87	35.07	48.53	54.00	-5.47	Average	
9611.66	30.14	38.17	13.73	35.19	46.85	54.00	-7.15	Average	
9611.66	46.01	38.17	13.73	35.19	62.72	74.00	-11.28	Peak	
12024.96	48.67	39.10	14.65	33.28	69.14	74.00	-4.86	Peak	
12024.96	29.77	39.10	14.65	33.28	50.24	54.00	-3.76	Average	

2440MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m) @3m	FCC Limit (dBuV/m) @3m	Over Limit (dB)	Detector	Polarization
4883.52	43.14	31.14	9.59	36.73	47.14	54.00	-6.86	Average	Horizontal
4883.52	56.37	31.14	9.59	36.73	60.37	74.00	-13.63	Peak	
7319.96	34.77	36.07	11.99	34.92	47.91	54.00	-6.09	Average	
7319.96	55.43	36.07	11.99	34.92	68.57	74.00	-5.43	Peak	
9759.59	28.46	38.25	13.66	35.58	44.79	54.00	-9.21	Average	
9759.59	51.46	38.25	13.66	35.58	67.79	74.00	-6.21	Peak	
12210.02	25.11	39.14	14.52	32.79	45.98	54.00	-8.02	Average	
12210.02	50.40	39.14	14.52	32.79	71.27	74.00	-2.73	Peak	
4883.52	42.19	31.14	9.59	36.73	46.19	54.00	-7.81	Average	Vertical
4883.52	58.45	31.14	9.59	36.73	62.45	74.00	-11.55	Peak	
7319.96	35.14	36.07	11.99	34.92	48.28	54.00	-5.72	Average	
7319.96	56.33	36.07	11.99	34.92	69.47	74.00	-4.53	Peak	
9759.59	27.14	38.25	13.66	35.58	43.47	54.00	-10.53	Average	
9759.59	55.02	38.25	13.66	35.58	71.35	74.00	-2.65	Peak	
12210.02	18.16	39.14	14.52	32.79	39.03	54.00	-14.97	Average	
12210.02	50.76	39.14	14.52	32.79	71.63	74.00	-2.37	Peak	

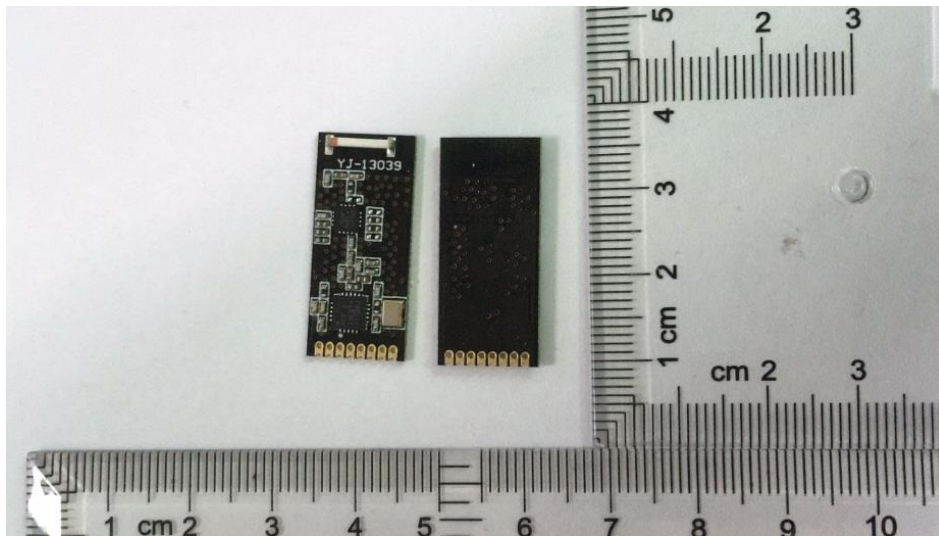
2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m) @3m	FCC Limit (dBuV/m) @3m	Over Limit (dB)	Detector	Polarization
4958.68	42.16	31.18	9.64	36.52	46.46	54.00	-7.54	Average	Horizontal
4958.68	54.14	31.18	9.64	36.52	58.44	74.00	-15.56	Peak	
7451.57	53.46	36.17	12.24	34.86	67.01	74.00	-6.99	Peak	
7451.57	37.52	36.17	12.24	34.86	51.07	54.00	-2.93	Average	
9935.05	27.10	38.35	13.57	33.97	45.05	54.00	-8.95	Average	
9935.05	51.45	38.35	13.57	33.97	69.40	74.00	-4.60	Peak	
12429.54	29.01	39.19	14.39	32.76	49.83	54.00	-4.17	Average	
12429.54	49.65	39.19	14.39	32.76	70.47	74.00	-3.53	Peak	
4958.68	30.01	31.18	9.64	36.52	34.31	54.00	-19.69	Average	Vertical
4958.68	53.26	31.18	9.64	36.52	57.56	74.00	-16.44	Peak	
7451.57	53.10	36.17	12.24	34.86	66.65	74.00	-7.35	Peak	
7451.57	27.14	36.17	12.24	34.86	40.69	54.00	-13.31	Average	
9935.05	24.65	38.35	13.57	33.97	42.60	54.00	-11.40	Average	
9935.05	52.34	38.35	13.57	33.97	70.29	74.00	-3.71	Peak	
12429.54	27.00	39.19	14.39	32.76	47.82	54.00	-6.18	Average	
12429.54	50.16	39.19	14.39	32.76	70.98	74.00	-3.02	Peak	

## 6. Test Setup Photos of the EUT

### Radiated Emissions



## 7. External and Internal Photos of the EUT



.....End of Report.....