

FCC PART 15.249  
EMI MEASUREMENT AND TEST REPORT  
For  
MINIX TECHNOLOGY LIMITED

Unit 01,15/F,Chevalier Commercial Center,No.8 Wang Hoi Road,Kowloon Bay,Kowloon, Hong Kong

**FCC ID:2ADACMINIX**

MINIX NEO A2 Lite

This Report Concerns: Original Report	Equipment Type: Airmouse
Test Engineer:	Lisa Chen <i>Lisa Chen</i>
Report No.:	BSL20141218-9
Receive EUT Date/Test Date:	December 08,2014/ December 08-December 18,2014
Reviewed By:	Mike moo <i>Mike moo</i>
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## 1. GENERAL INFORMATION

### 1.1. Report information

- 1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BSL approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BSL in any way guarantees the later performance of the product/equipment.
- 1.1.2.The sample/s mentioned in this report is/are supplied by Applicant, BSL therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BSL, unless the applicant has authorized BSL in writing to do so.

#### Test Facility -

The test site used to collect the radiated data is located on the address of BSL Testing Co.,LTD.

(FCC Registered Test Site Number: 191509) on

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

The Test Site is constructed and calibrated to meet the FCC requirements.

### 1.2. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	+/-1.25dB
2	RF Power, Conducted	+/-0.20dB
3	Spurious emissions, conducted	+/-0.33dB
4	All emissions, radiated (<1G)	+/-3.47dB
5	All emissions, radiated (>1G)	+/-3.82dB
6	Temperature	+/-0.5°CdB
7	Humidity	+/-2%

## 2. PRODUCT DESCRIPTION

### 2.1. EUT Description

Description : Airmouse  
 Applicant : MINIX TECHNOLOGY LIMITED.  
 Unit 01,15/F,Chevalier Commercial Center,No.8 Wang Hoi  
 Road,Kowloon Bay,Kowloon, Hong Kong  
 Manufacturer : XianGuan Electronics limited  
 13/F, Building B,Haisong Edifice,Tairan 9th Rd.,Futian  
 District,Shenzhen,China  
 Model Number : MINIX NEO A2 Lite  
 Modulation type : GFSK  
 Antenna gain : 0dBi  
 Antenna type : PCB Antenna  
 Frequency : 2402-2480MHz  
 Number of Channels : 20 Channels  
 Power Supply : 2\*1.5V AAA Battery

<b>Channel List</b>					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	8	2430	15	2458
2	2406	9	2434	16	2462
3	2410	10	2439	17	2466
4	2414	11	2442	18	2470
5	2418	12	2446	19	2474
6	2422	13	2450	20	2480
7	2426	14	2454		

## 2.2. Block Diagram of EUT Configuration

RE:



Figure 1 EUT Setup

## 2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used (Y/N)

## 2.4. Test Conditions

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-25
Humidity (%RH)	25-75	50-63
Barometric pressure (mbar)	860-1060	950-1000

### 3. TEST RESULTS SUMMARY

#### FCC 15 Subpart C, Paragraph 15.249:2013

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant
Section 15.249	20dB Bandwidth	Compliant

Remark: "N/A" means "Not applicable".

N/A:the eut power supply: 2\*1.5V AAA Battery.

Statement: All testing was performed using the test procedures found in ANSI C63.4-2003.

#### Modifications

No modification was made.

#### 4. TEST EQUIPMENT USED

EQUIPMENT/FACILITIES	MANUFACTURER	MODEL	SERIAL NO.	DATE OF CAL.	CAL. INTERVAL
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	Aug. 23 2014	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI3	BSL001	Sep. 28 2014	1 Year
BiConiLog Antenna	Rohde & Schwarz	HL562	BSL009	Sep. 28 2014	1 Year
Double -ridged waveguide horn	Rohde & Schwarz	9120D	BSL008	Aug. 27 2014	1 Year
Horn Antenna	ETS-LINDGREN	3160	BSL072	Dec. 28 2013	1 Year
Cable	Rohde & Schwarz	BSL045	BSL045	Aug. 27 2014	1 Year
Cable	Rohde & Schwarz	BSL046	BSL046	Aug. 27 2014	1 Year
Cable	Rohde & Schwarz	BSL047	BSL047	Aug. 27 2014	1 Year
Amplifier(100kHz-40G Hz)	R&S	SMR40	BSL007	Sep. 28 2014	1 Year
Band filter	Amindeon	82346	BSL049	Aug. 27 2014	1 Year
Active Loop Antenna	EMTES	EM15	BSL011	Sep. 28 2014	1 Year
Coaxial Switch	YUANFANG	TA218B	BSL004	Aug. 27 2014	1 Year
Spectrum analyzer	Rohde & Schwarz	FSP40	BSL049	Sep. 28 2014	1 Year

## **5. ANTENNA REQUIREMENT**

### **5.1. Standard Applicable**

For intentional device, according to FCC 47 CFR 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.

### **5.2. Antenna Connected Construction**

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. 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. 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.

The antenna used in this product is PCB Antenna. The antenna is permanently attached. Refer to the product photo.

### **5.3. Result**

Compliance



## 6. CONDUCTED POWER LINE TEST

### 6.1. Test Equipment

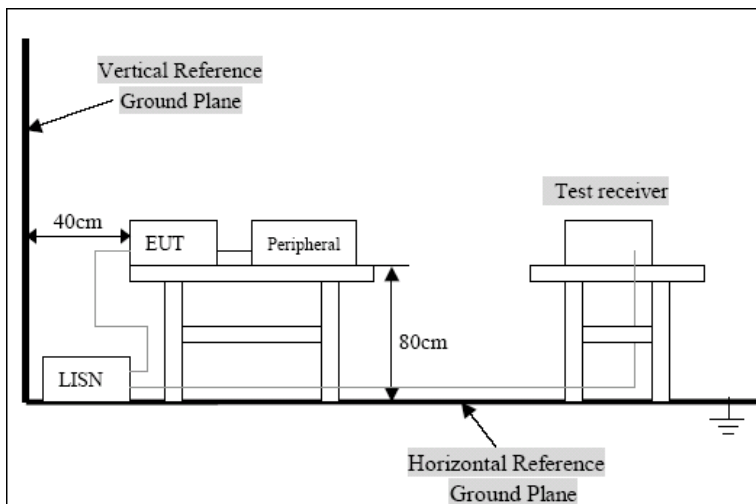
Please refer to section 4 this report.

### 6.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uh coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uh coupling impedance with 50ohm termination.

Both sides of A.C. Line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2003 on conducted measurement. Conducted emissions were measured over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### 6.3. Test Setup



For the actual test configuration, please refer to the related items-Photos of testing

### 6.4. Conducted Power line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHZ)	Class A QP/AV	Class B QP/AV
0.15-0.5	79/66	65-56/56-46
0.5-5.0	73/60	56-46
5.0-3.0	73/60	60-50

**Note:** In the above table, the tighter limit applies at the band edges.

## **6.5. Conducted Power Line Test Result**

**N/A:the eut power supply: 2\*1.5V AAA Battery.**

## 7. RADIATED EMISSION TEST

### 7.1. Test Equipment

Please refer to section 4 this report.

### 7.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level.

Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

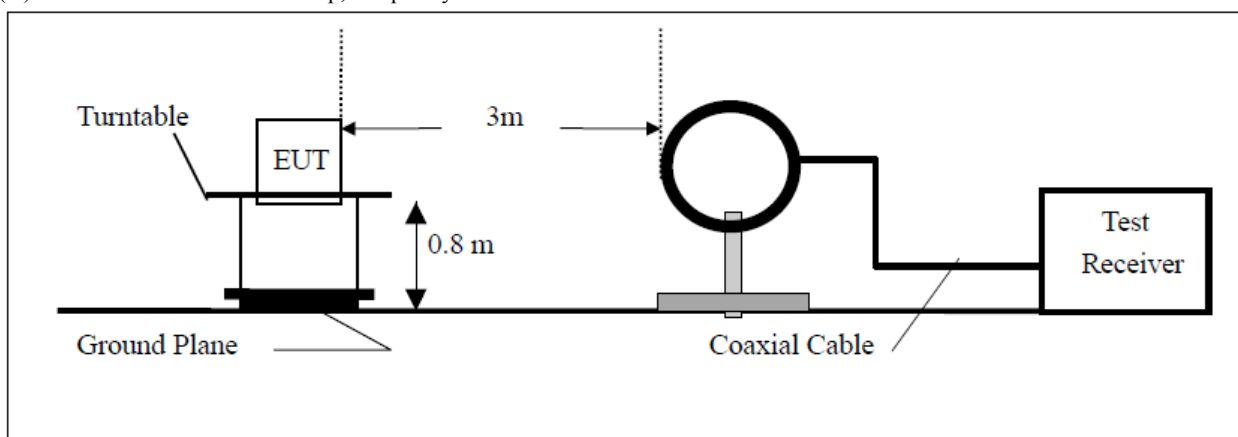
The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

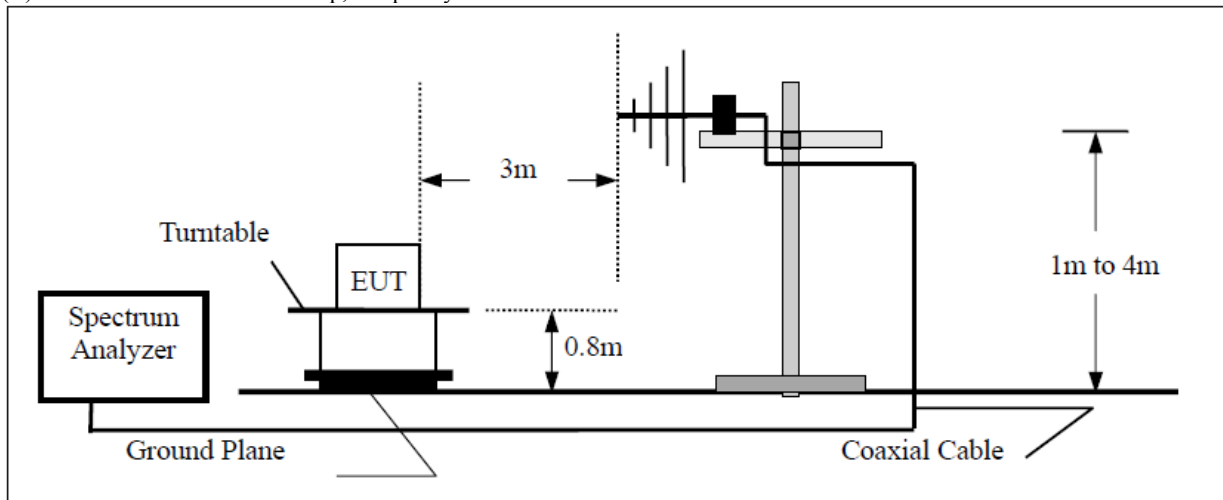
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit. And X direction is worst mode.

### 7.3. Radiated Test Setup

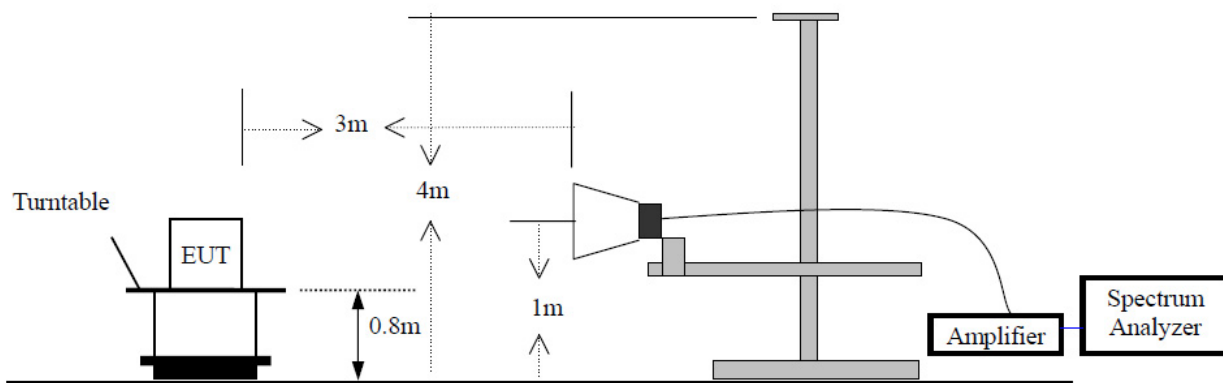
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



### 7.4. Radiated Emission Limit

All emission from a digital device,including any network of conductors and apparatus connected thereto,shall not exceed the level of field strength specified below :

#### A. Fundamental and Harmonics Radiated Emissions 15.249(a) Limit

Fundamental Frequency (MHZ)	Field as trength of Fundamental(3m)			Field as trength of Harmonics(3m)		
	mV/m	dBuV/m		uV/m	dBuV/m	
902-928	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)
2400-2483.5	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(3) The emission limit in this paragraph os based on measurement instrumentation employing an average detector.Measurement using instrumentation with a peak detector function,corresponding to 20dB above the maximum permitted average limit.

#### B. Spurious Radiated Emissions.

Frequency (MHz)	Limit			The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)	Measurement distance (m)	
0.009 - 0.490	2400/F(kHz)	/	300	
0.490 - 1.705	24000/F(kHz)	/	30	
1.705-30	30	29.5	30	
30 - 88	100	40	3	
88 - 216	150	43.5	3	
216 - 960	200	46	3	
Above 960	500	54	3	

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) In the Above Table,the tighter limit applies at the band edges.

(3) Distaqnce refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

## 7.5. Radiated Emission Test Result

Pass

### A. Fundamental Radiated Emissions Data

#### CH Low

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2402	76.25/85.98	27.47	5.42	30.17	78.97/88.7	VERT	94/114	-15.03/-25.3
2402	78.36/87.87	27.47	5.42	30.17	81.08/90.59	HORIZ	94/114	-12.92/-23.41

#### CH Middle

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2439	77.41/86.48	27.40	5.40	30.15	80.06/89.13	VERT	94/114	-13.94/-24.87
2439	78.59/88.09	27.40	5.40	30.15	81.24/90.74	HORIZ	94/114	-12.76/-23.26

#### CH High

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2480	76.11/85.21	27.50	5.46	29.98	79.09/88.19	VERT	94/114	-14.91/-25.81
2480	78.05/87.16	27.50	5.46	29.98	81.03/90.14	HORIZ	94/114	-12.97/-23.86

Remark:

Final Emission = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

## B. General Radiated Emissions Data

**For below 9kHz-30MHz Spurious**

Freq. (MHz)	Emission(dBuV/m) PK / AV	Limits(dBuV/m) PK / AV	Margin (dB)
-	-	-	-
-	-	-	-

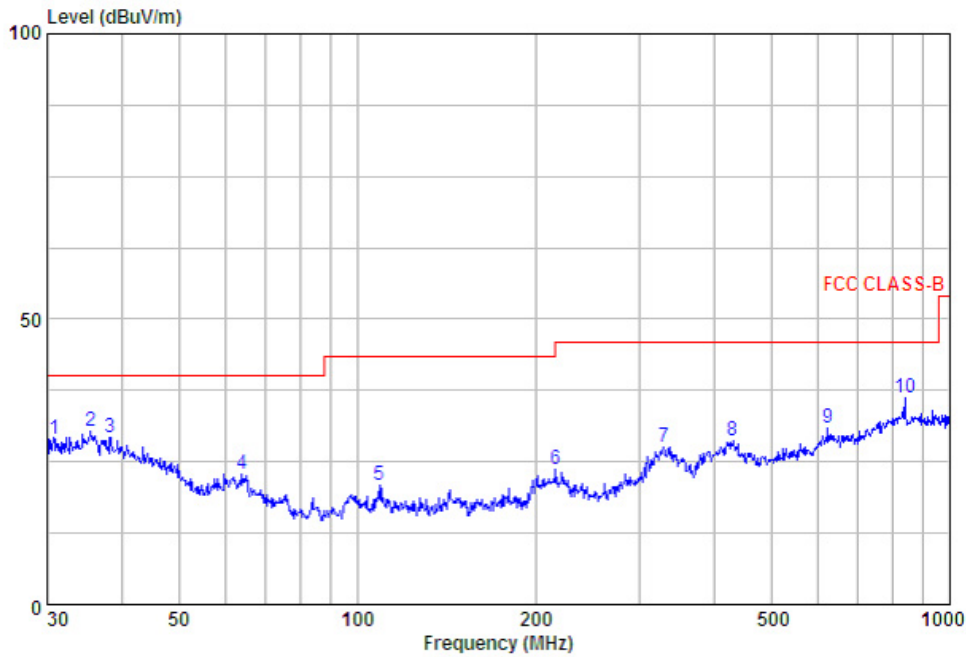
Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

For 30M-1000MHz Spurious

$$\text{Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

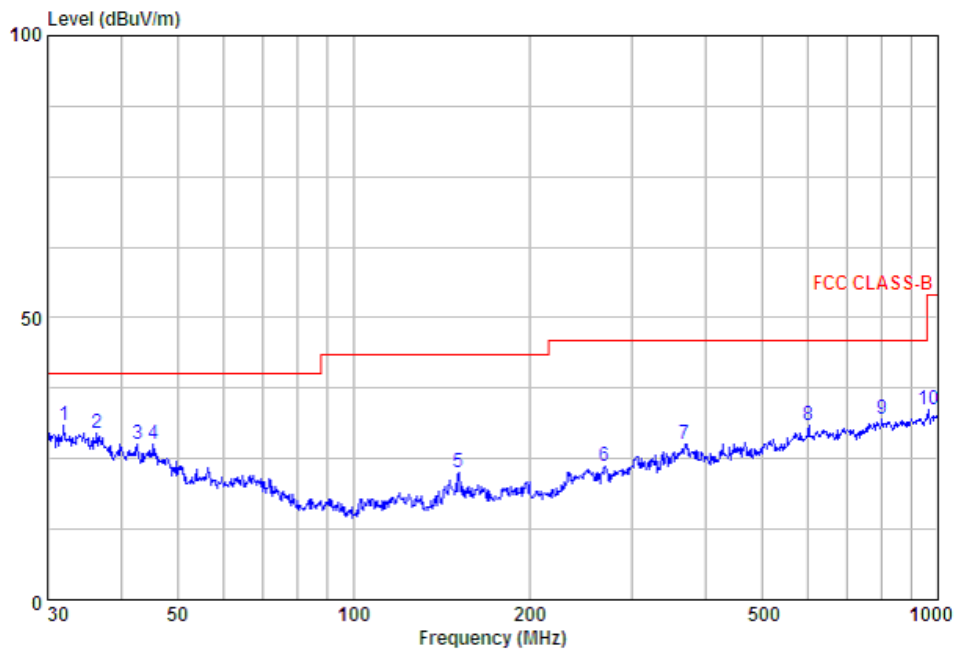
2439MHz Transmitting(Worst case mode)



Condition : FCC CLASS-B 3m HORIZONTAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq	Limit	Level	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	30.853	40.0	28.9	-11.1	QP	HORIZONTAL
2 max	35.499	40.0	30.4	-9.6	QP	HORIZONTAL
3	38.346	40.0	29.3	-10.7	QP	HORIZONTAL
4	63.983	40.0	22.9	-17.1	QP	HORIZONTAL
5	109.029	43.5	20.8	-22.7	QP	HORIZONTAL
6	216.024	46.0	23.6	-22.4	QP	HORIZONTAL
7	329.039	46.0	27.5	-18.5	QP	HORIZONTAL
8	431.032	46.0	28.6	-17.4	QP	HORIZONTAL
9	622.890	46.0	30.8	-15.2	QP	HORIZONTAL
10	839.182	46.0	36.3	-9.7	QP	HORIZONTAL





Condition : FCC CLASS-B 3m VERTICAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Limit	Over			
Freq	Line	Level	Limit	Remark	Pol/Phase
MHz	dBuV/m	dBuV/m	dB		
1 max	31.955	40.0	30.9	-9.1 QP	VERTICAL
2	36.381	40.0	29.6	-10.4 QP	VERTICAL
3	42.750	40.0	27.6	-12.4 QP	VERTICAL
4	45.535	40.0	27.6	-12.4 QP	VERTICAL
5	151.597	43.5	22.6	-20.9 QP	VERTICAL
6	269.428	46.0	23.7	-22.3 QP	VERTICAL
7	369.405	46.0	27.7	-18.3 QP	VERTICAL
8	601.427	46.0	30.9	-15.1 QP	VERTICAL
9	801.786	46.0	31.9	-14.1 QP	VERTICAL
10	962.162	54.0	33.7	-20.3 QP	VERTICAL

**For 1000MHz-25000MHz Spurious**

## CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4804	38.12/48.05	VERT	54.0/74.0	-15.88/-25.95
7206	42.08/52.05		54.0/74.0	-11.92/-21.95
9608	40.07/50.07		54.0/74.0	-13.93/-23.93
4804	36.99/48.66	HORIZ	54.0/74.0	-17.01/-25.34
7206	44.53/54.53		54.0/74.0	-9.47/-19.47
9608	46.02/56.02		54.0/74.0	-7.98/-17.98

## CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4878	33.02/43.1	VERT	54.0/74.0	-20.98/-30.9
7317	38.91/48.86		54.0/74.0	-15.09/-25.14
9756	37.84/47.87		54.0/74.0	-16.16/-26.13
4878	33.1/43.13	HORIZ	54.0/74.0	-20.9/-30.87
7317	41.17/51.17		54.0/74.0	-12.83/-22.83
9756	45.91/55.9		54.0/74.0	-8.09/-18.1

## CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4960	36.12/46.16	VERT	54.0/74.0	-17.88/-27.84
7440	39.99/49.99		54.0/74.0	-14.01/-24.01
9920	41.03/51.12		54.0/74.0	-12.97/-22.88
4960	35.39/45.39	HORIZ	54.0/74.0	-18.61/-28.61
7440	40.08/50.09		54.0/74.0	-13.92/-23.91
9920	42.08/52.17		54.0/74.0	-11.92/-21.83

## Note:

1. The average measurement was not performed when the peak measured data under the limit of average detection.
2. Emissions attenuated more than 20 dB below the permissible value are not reported.

## **8. BAND EDGE**

### **8.1. Test Equipment**

Please refer to Section 4 this report.

### **8.2. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement. The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz respectively.

### **8.3. Band Edge FCC 15.249(d) Limit**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

## 8.4. Band Edge Test Result

### Pass

ALL of the restriction bands were tested, and only the data of worst case was exhibited.

#### CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2390	38.94/46.73	VERT	54.0/74.0	-15.06/-27.27
2400	44.21/53.63		54.0/74.0	-9.79/-20.37
2390	39.67/48.74	HORIZ	54.0/74.0	-14.33/-25.26
2400	41.9/54.85		54.0/74.0	-12.1/-19.15

#### CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2483.5	37.67/49	VERT	54.0/74.0	-16.35/-25
2500.00	34.7/44.59		54.0/74.0	-19.3/-29.41
2483.5	39.03/49.59	HORIZ	54.0/74.0	-14.97/-24.41
2500.00	35.59/43.74		54.0/74.0	-18.41/-30.26

#### Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## 9. 20-DB BANDWIDTH

### 9.1. Test Equipment

Please refer to Section 4 this report.

### 9.2. Test Procedure

1. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
2. Set center frequency of spectrum analyzer = operating frequency.
3. The spectrum analyzer as RBW=30 KHz, VBW=100 KHz, Sweep=auto
4. Mark the peak frequency and -20dB (upper and lower) frequency.

### 9.3. Limit

Please refer section15.249

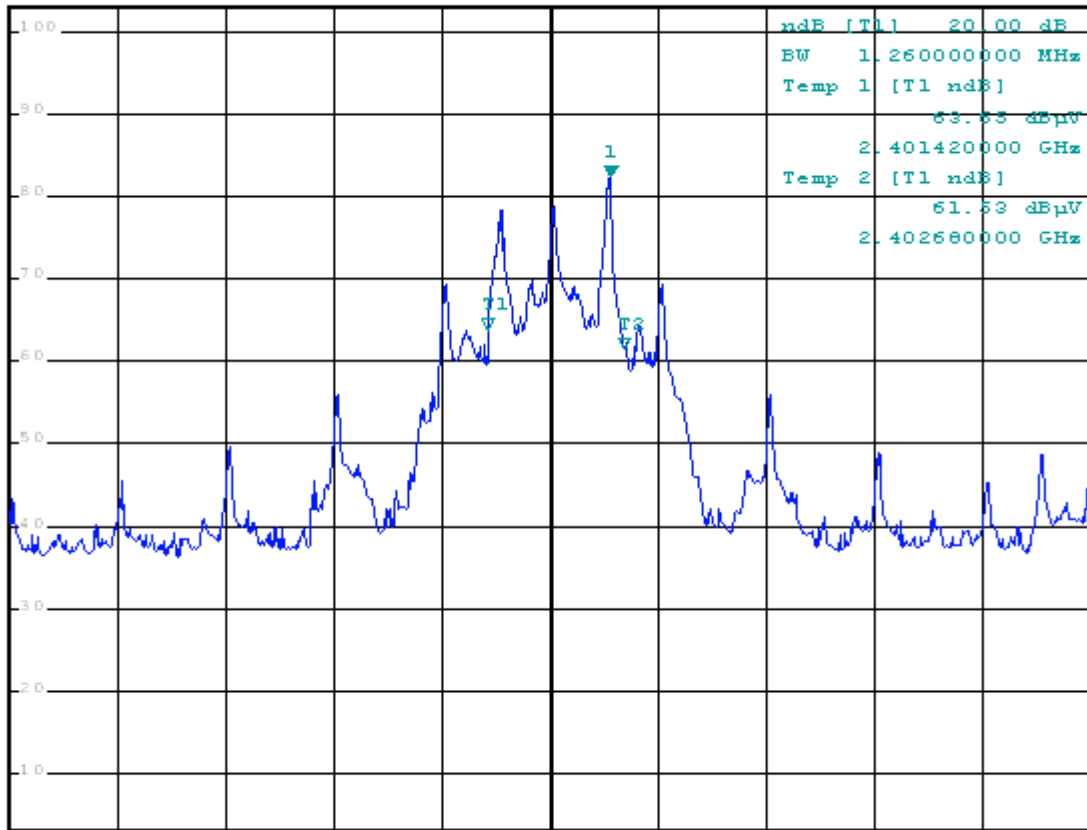
### 9.4. Test Result /Plots

Limit	Channel Frequency (MHz)	20dB Bandwidth (MHz)
/	2402	1.26
/	2439	1.26
/	2480	1.30



\*RBW 30 kHz    Marker 1 [T1 ]  
 \*VBW 100 kHz    82.30 dBμV  
 Ref 103 dBμV    Att 30 dB    SWT 15 ms    2.402560000 GHz

1 PR  
 VIEW



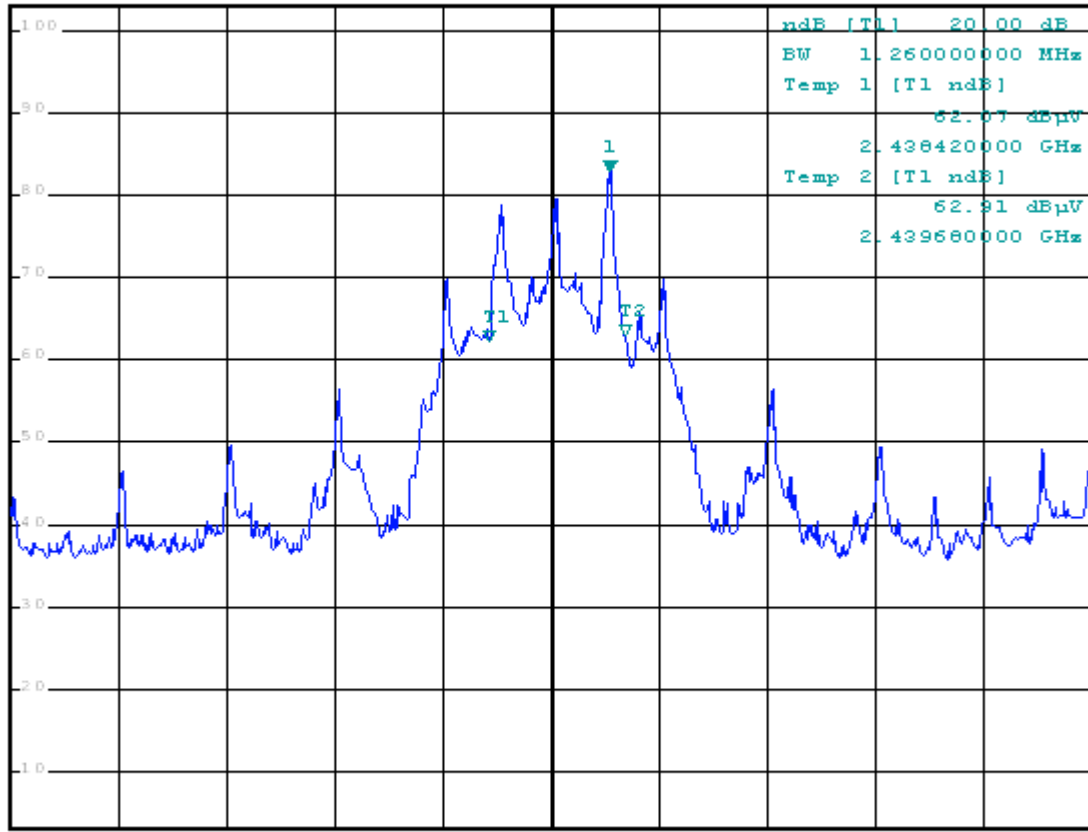
A

Center 2.402 GHz    1 MHz/    Span 10 MHz



1 PK  
VIEW

• RBW 30 kHz    Marker 1 [T1 ]  
 • VBW 100 kHz                    82.98 dBμV  
 Ref 103 dBμV                    Att 30 dB                    SWT 15 ms                    2.439540000 GHz



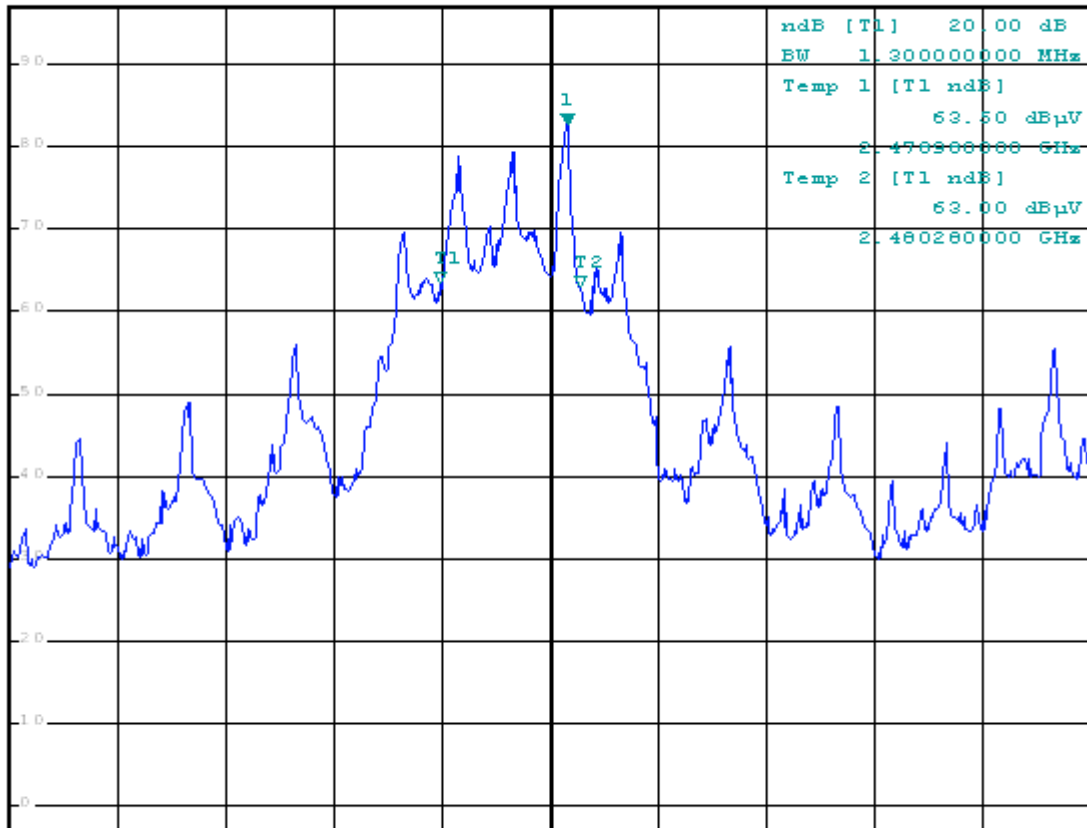
A

Center 2.439 GHz                    1 MHz/                    Span 10 MHz



\*RBW 30 kHz    Marker 1 [T1 ]  
 \*VBW 100 kHz                    62.61 dBμV  
 Ref 97 dBμV                    Att 20 dB                    SWT 15 ms                    2.480160000 GHz

1 PK  
 VIEW



A

Center 2.48 GHz                    1 MHz/                    Span 10 MHz

**End Of The Report**