

## 47 CFR PART 15 C - BLUETOOTH

# TEST REPORT

of

### Mobile Phone

Trade Name: TINNO  
Brand Name: TINNO  
Model Name: T01C  
Report No.: SZ09070090E03  
FCC ID.: XD6T01C

*prepared for*

### SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD.

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# Bluetooth®

## CTIA Authorized Test Lab

LAB CODE 20081223-00

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Change History		
Issue	Date	Reason for change
1.0	August 08, 2009	First edition
2.0	August 18, 2009	Add the version of the C63.4 for Section 3.8 and 3.9; Add the test equipment R&S AC004R1 antenna; Add the un-wanted emission test data on page 31. Add the Change History and Report Issue.

## 1. TEST CERTIFICATION

Equipment under Test: Mobile Phone

Brand Name: TINNO

Model Name: T01C

FCC ID: XD6T01C

Applicant: SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD  
4/F., H-3 Building, OCT Eastern Industrial Park. NO.1 XiangShan East  
Road., Nan Shan District, Shenzhen, P.R.China

Manufacturer: SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD  
4/F., H-3 Building, OCT Eastern Industrial Park. NO.1 XiangShan East  
Road., Nan Shan District, Shenzhen, P.R.China

Test Standards: 47 CFR Part 15 Subpart C

Test Date(s): July 23, 2009 –August 6, 2009

Test Result: PASS

### \* We Hereby Certify That:

The equipment under test was tested by Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by: Ni Yong Dated: 2009.8.19  
Ni Yong

Reviewed by: Liao Jianming Dated: 2009.8.19  
Liao Jianming

Approved by: Shu Luan Dated: 2009.8.19  
Shu Luan



## 2. GENERAL INFORMATION

### 2.1 EUT Description

EUT Type .....: Mobile Phone  
Model Name .....: T01C  
Serial No.....: (n.a, marked #1 by test site)

Modulation Type .....: Frequency Hopping Spread Spectrum (FHSS)  
Frequency .....: The frequency range used is 2402MHz - 2480MHz (79 channels, at intervals of 1MHz);  
The frequency block is 2400MHz to 2483.5MHz.

Power Supply .....: Battery  
Model Name: T01C  
Capacitance: 500mAh  
Rated voltage: 3.7V

Ancillary Equipments.....: AC Adapter (Charger for Battery)  
Model Name: C3023A01  
Serial No.: (n.a. marked #1 by test site)  
Rated Input: ~ 100-240V, 120mA, 50/60Hz  
Rated Output: = 5V, 500mA

*Note 1:* The EUT is a Mobile Phone, it contains Bluetooth Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth Module is  $F(\text{MHz})=2402+1*n$  ( $0 \leq n \leq 78$ ). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 39 (2441MHz) and 78 (2480MHz).

*Note 2:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

## 2.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.247(a)	Number of Hopping Frequency	PASS
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	20dB Bandwidth	PASS
4	15.247(a)	Carrier Frequency Separation	PASS
5	15.247(a)	Time of Occupancy (Dwell time)	PASS
6	15.247(c)	Conducted Spurious Emission	PASS
7	15.247(c)	Band Edge	PASS
8	15.207	Conducted Emission	PASS
9	15.209 15.247(c)	Radiated Emission	PASS

## **2.3 Facilities and Accreditations**

### **2.3.1 Facilities**

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

### **2.3.2 Test Environment Conditions**

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

Temperature (°C):	20 - 25
Relative Humidity (%):	40 - 60
Atmospheric Pressure (kPa):	96



### 3. 47 CFR PART 15C REQUIREMENTS

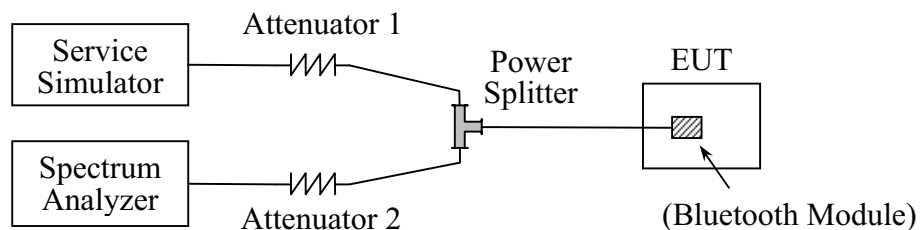
#### 3.1 Number of Hopping Frequency

##### 3.1.1 Requirement

According to FCC section 15.247(a)(1)(ii), frequency hopping systems operating in the 2400MHz to 2483.5MHz bands shall use at least 75 hopping frequencies.

##### 3.1.2 Test Description

###### A. Test Setup:



The Bluetooth Module of the EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the Bluetooth Service Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. During the measurement, the Bluetooth Module of the EUT is activated and controlled by the SS, and is set to operate under test mode transmitting 339 bytes DH5 packages at maximum power.

###### B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Service Simulator	Agilent	E5515C	GB43130131	2008.09	1year
Spectrum Analyzer	Agilent	E7405A	US44210471	2008.09	1year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)

##### 3.1.3 Test Result

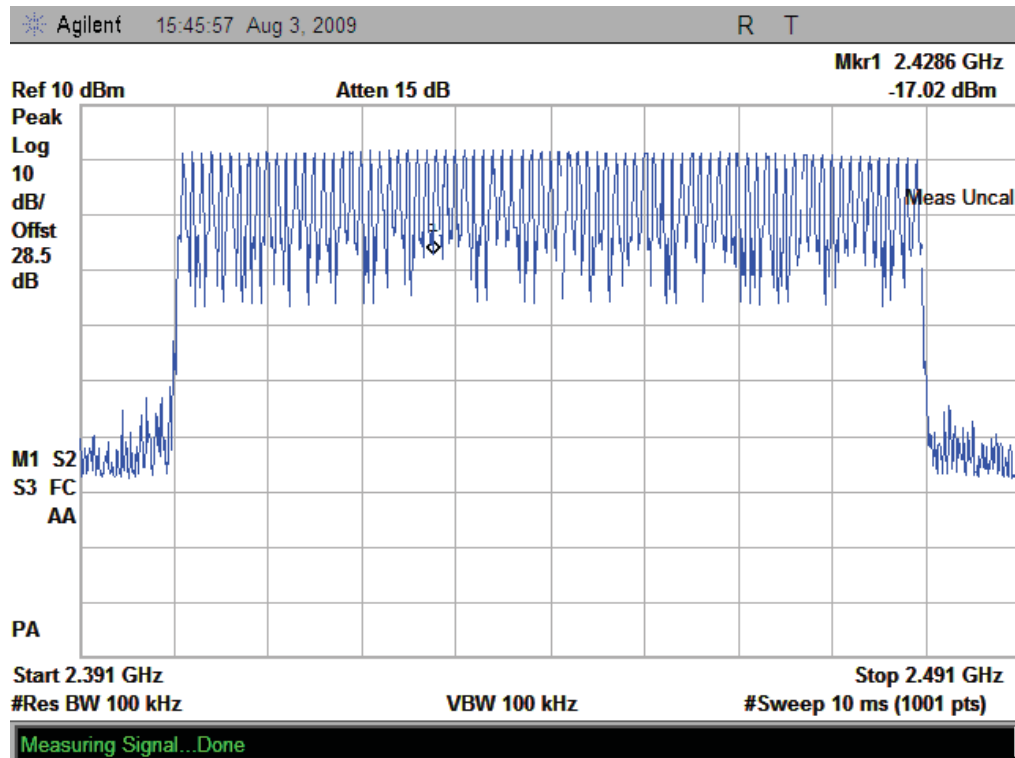
The Bluetooth Module operates at hopping-on test mode; the frequencies number employed is counted to verify the Module's using the number of hopping frequency.



### A. Test Verdict:

Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Refer to Plot	Verdict
2400 - 2483.5	79	75	Plot A	PASS

### B. Test Plot:



(Plot A: 2402MHz to 2480MHz)

## 3.2 Peak Output Power

### 3.2.1 Requirement

According to FCC section 15.247(b)(1), for frequency hopping systems that operates in the 2400MHz to 2483.5MHz band employing at least 75 hopping channels, the maximum peak output power of the intentional radiator shall not exceed 1Watt. For all other frequency hopping systems in the 2400MHz to 2483.5MHz band, it is 0.125Watts.

### 3.2.2 Test Description

See section 3.1.2 of this report.

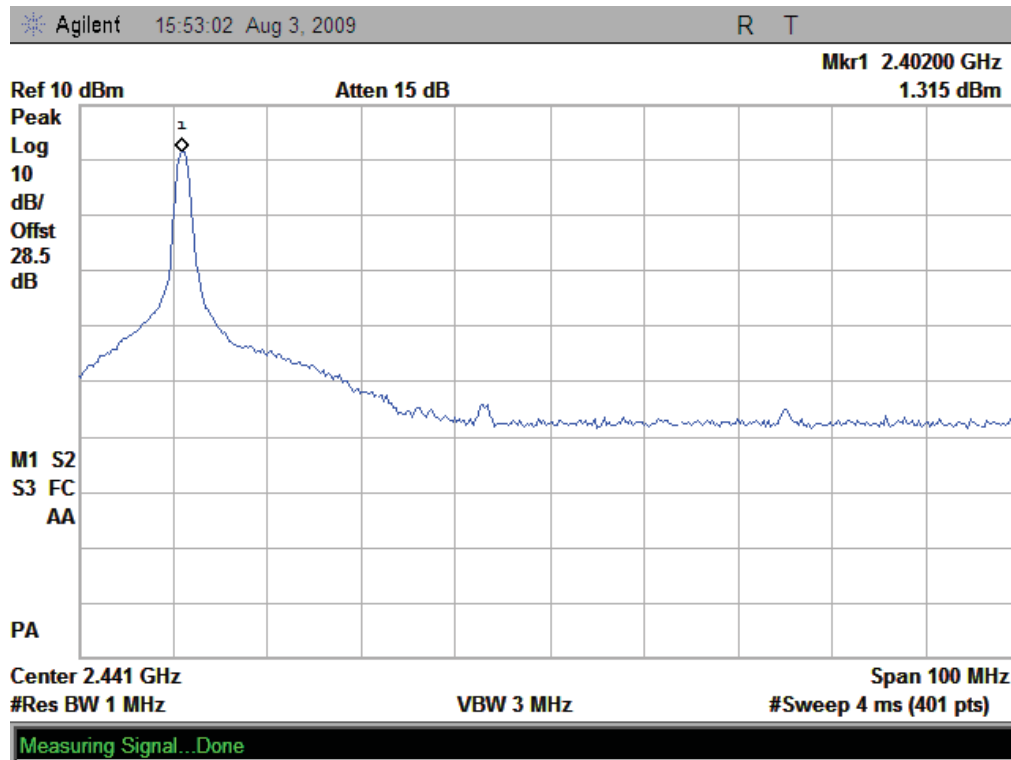
### 3.2.3 Test Result

The Bluetooth Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

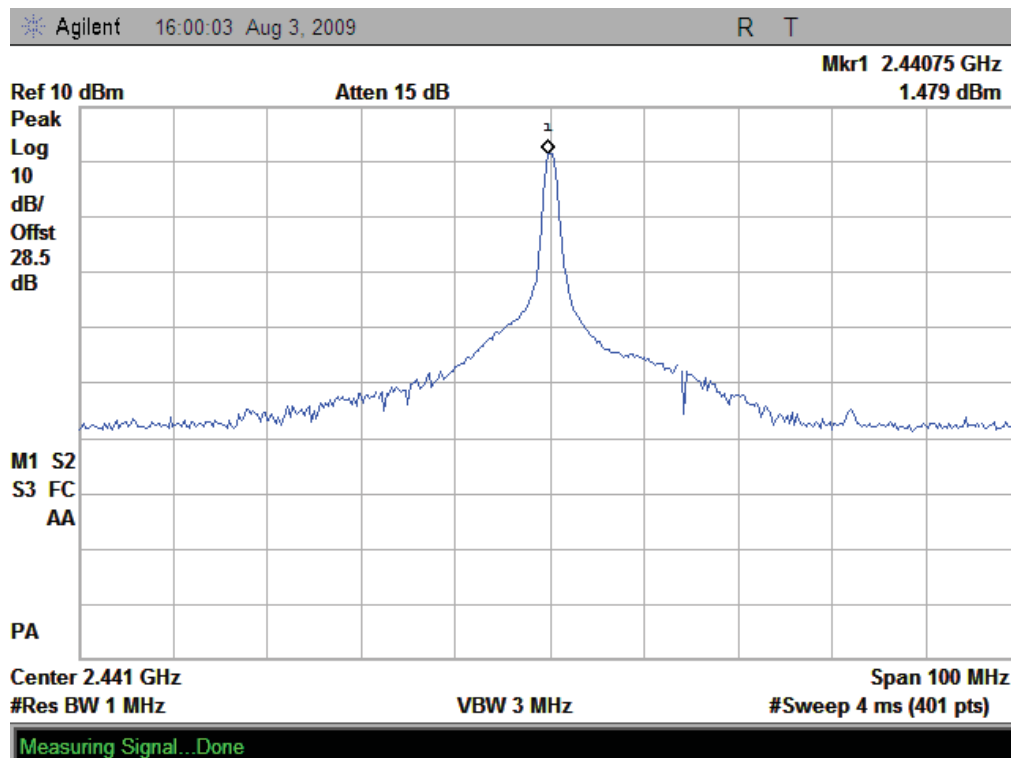
#### A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power			Limit		Verdict
		dBm	W	Refer to Plot	dBm	W	
0	2402	1.215	1.32E-3	Plot A	30	1	PASS
39	2441	1.479	1.40E-3	Plot B			PASS
78	2480	0.189	1.04E-3	Plot C			PASS

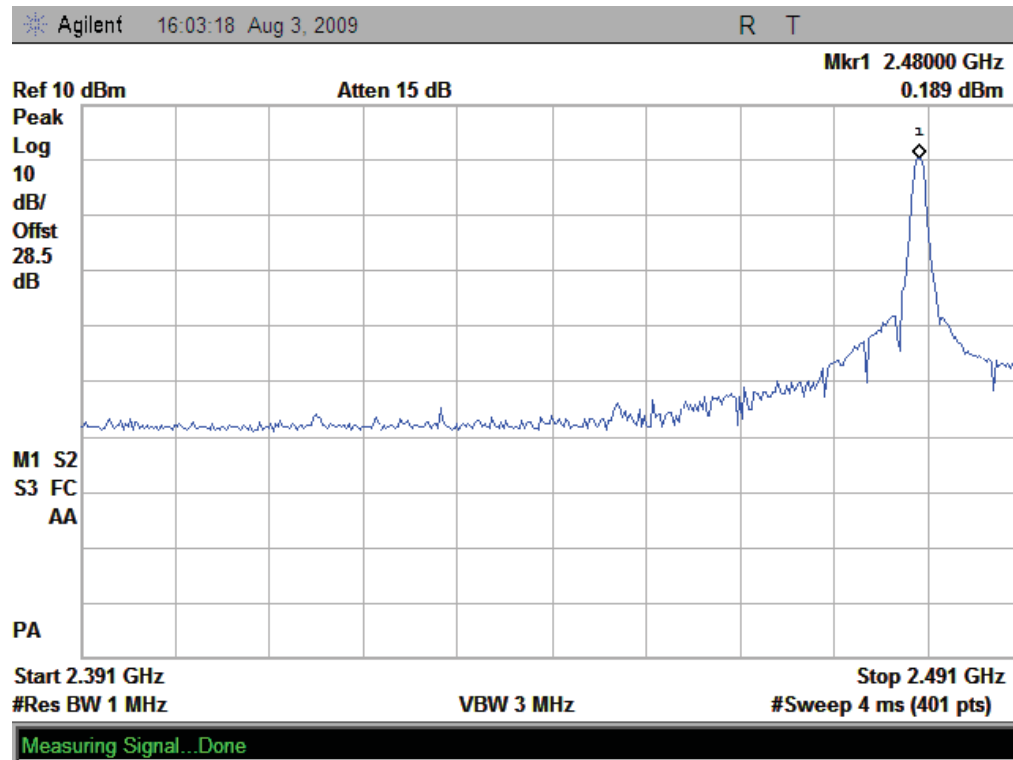
#### B. Test Plot:



(Plot A: Channel = 2402)



(Plot B: Channel = 2441)



(Plot C: Channel = 2480)

### 3.3 20dB Bandwidth

#### 3.3.1 Definition

The 20dB bandwidth is known as the 99% emission bandwidth, or 20dB bandwidth ( $10 \cdot \log 1\% = 20\text{dB}$ ) taking the total RF output power.

#### 3.3.2 Test Description

See section 3.1.2 of this report.

#### 3.3.3 Test Result

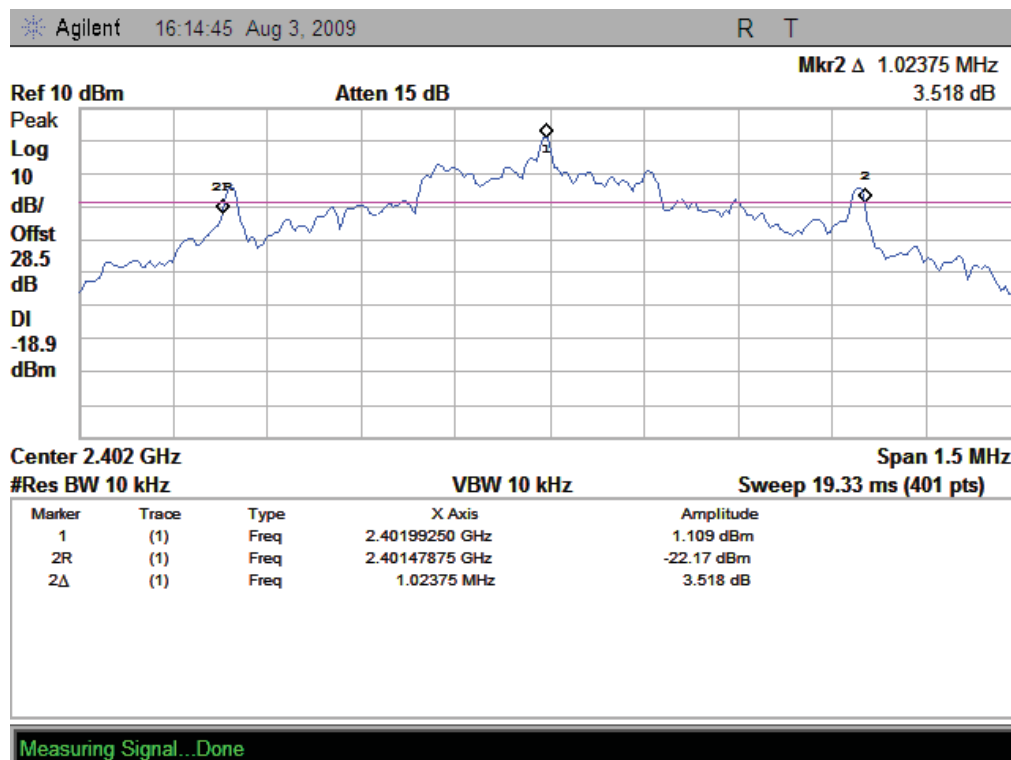
The Bluetooth Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to record the 20dB bandwidth of the Module.

##### A. Test Verdict:

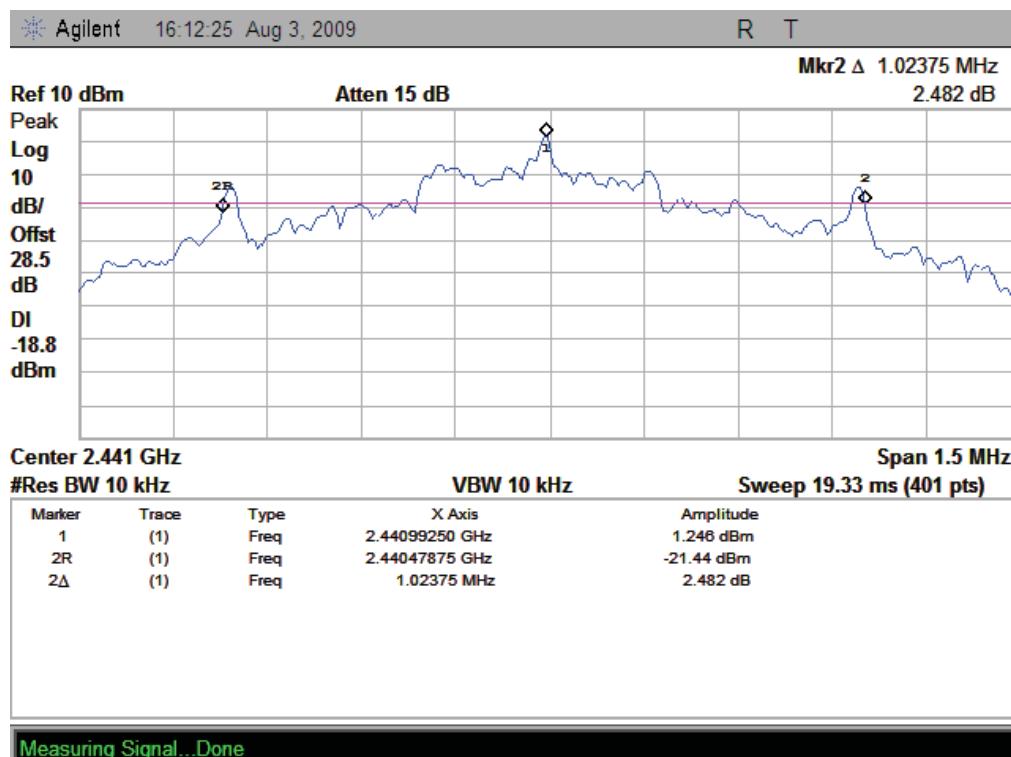
The maximum 20dB bandwidth measured is 1.024MHz according to the table below.

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Refer to Plot
0	2402	1.024	Plot A
39	2441	1.024	Plot B
78	2480	1.024	Plot C

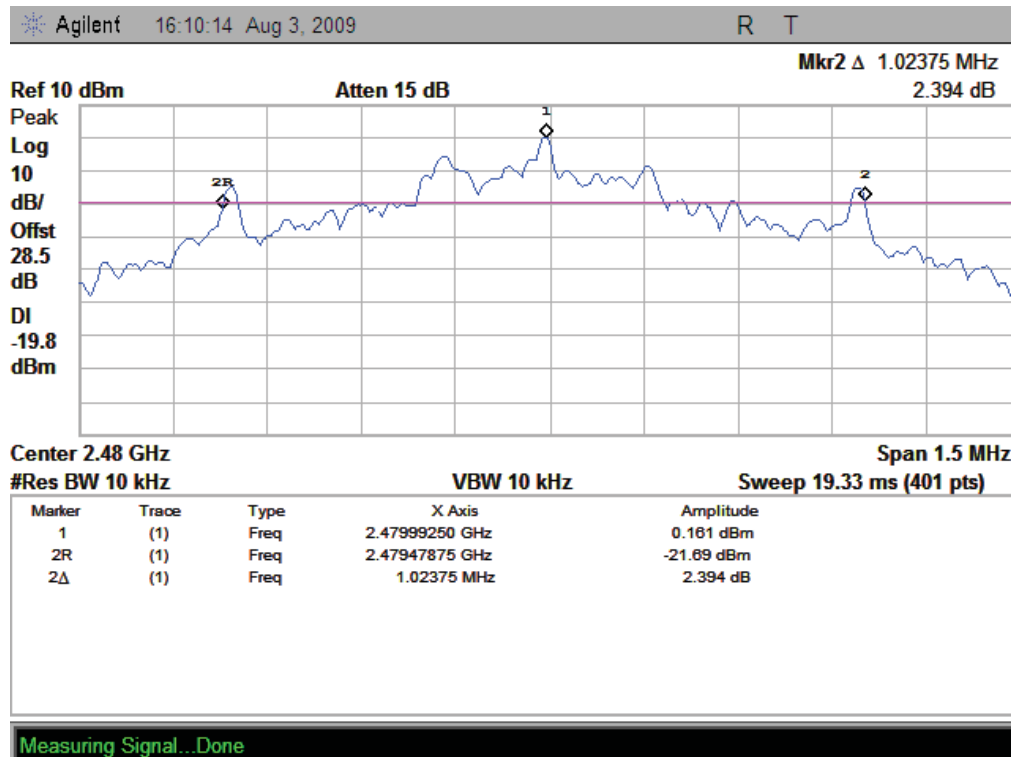
##### B. Test Plot:



(Plot A: Channel = 2402)



(Plot B: Channel = 2441)



(Plot C: Channel = 2480)



### 3.4 Carried Frequency Separation

#### 3.4.1 Definition

According to FCC section 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

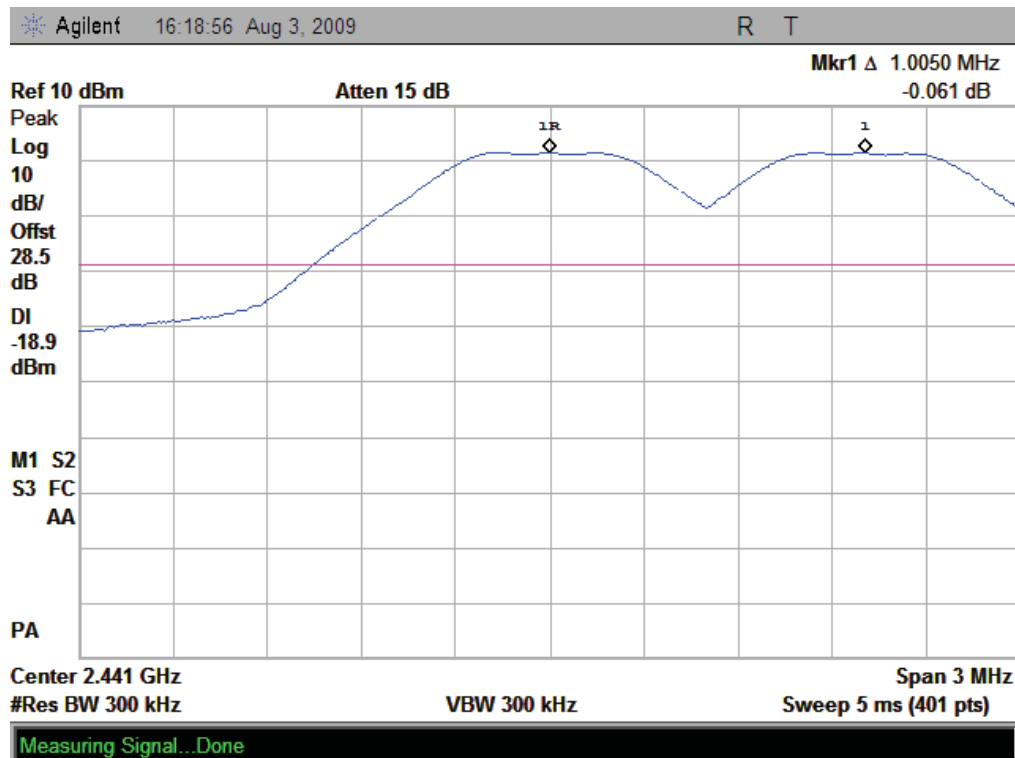
#### 3.4.2 Test Description

See section 3.1.2 of this report.

#### 3.4.3 Test Result

The Bluetooth Module operates at hopping-on test mode.

For any adjacent channels (e.g. the channel 39 and 40 as showed in the Plot A), the Module does have hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel (1.024MHz, refer to section 3.3.3), whichever is greater. So, the verdict is PASS.



(Plot A: Carried Frequency Separation)

### 3.5 Time of Occupancy (Dwell time)

#### 3.5.1 Requirement

According to FCC section 15.247(a)(1)(iii), frequency hopping systems in the 2400 - 2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

#### 3.5.2 Test Description

See section 3.1.2 of this report.

#### 3.5.3 Test Result

The average time of occupancy on any channel within the Period can be calculated with formulas (for DH5 package type):

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4s * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

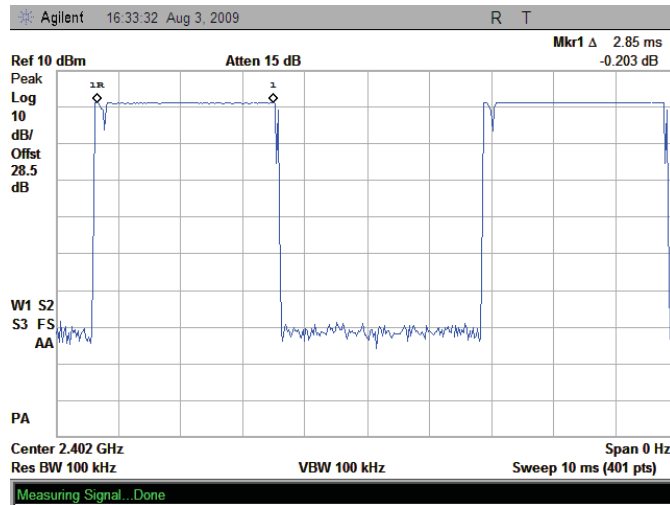
The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

##### A. Test Verdict:

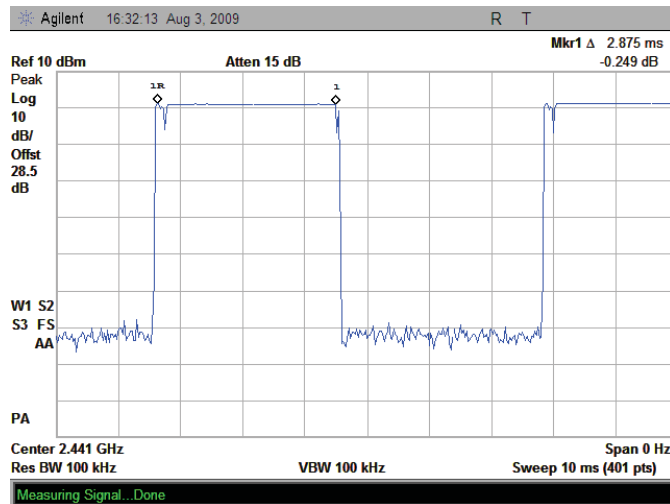
Channel	Frequency (MHz)	Pulse Time		Total of Dwell (ms)	Limit (ms)	Verdict
		ms	Refer to Plot			
0	2402	2.85	Plot A	304	400	PASS
39	2441	2.88	Plot B	307.2		PASS
78	2480	2.85	Plot C	304		PASS

##### B. Test Plot:

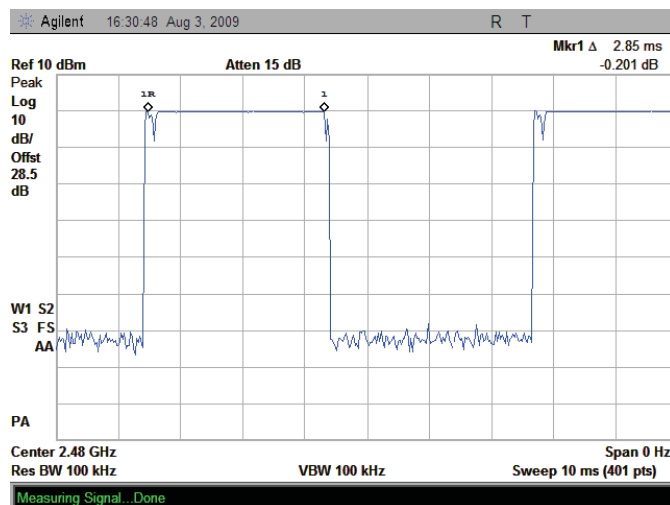
Note: the following plots record the Pulse Time of the Module carrier.



(Plot A: Channel = 2402)



(Plot B: Channel = 2441)



(Plot C: Channel = 2480)

### 3.6 Conducted Spurious Emissions

#### 3.6.1 Requirement

According to FCC section 15.247(c), 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.

#### 3.6.2 Test Description

See section 3.1.2 of this report.

#### 3.6.3 Test Result

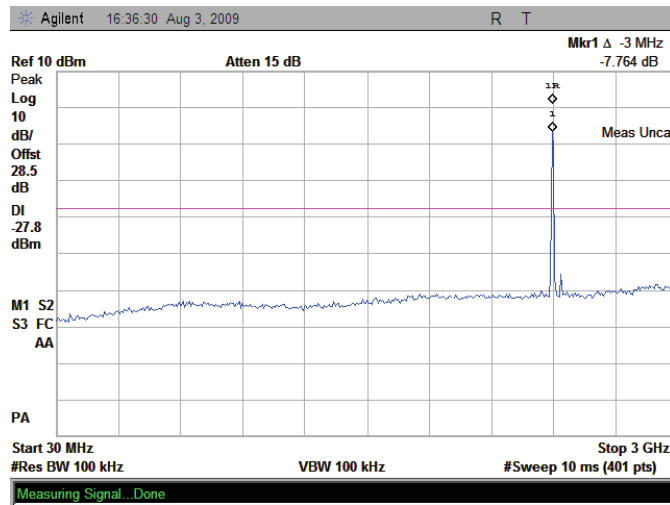
The Bluetooth Module operates at hopping-off test mode. The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

##### A. Test Verdict:

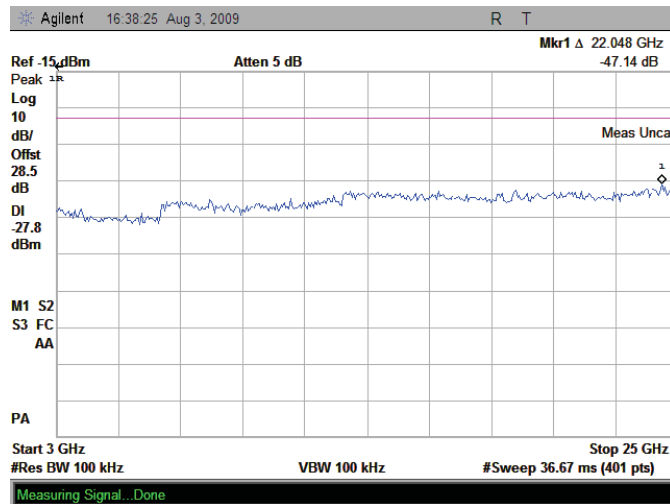
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Refer to Plot	Limit (dBm)		Verdict
				Carrier Level	Calculated -20dBc Limit	
0	2402	-47.14	Plot A.1/A.2	-7.76	-27.8	PASS
39	2441	-37.22	Plot B.1/B.2	0.14	-19.9	PASS
78	2480	-45.94	Plot C.1/C.2	-0.71	-20.7	PASS

##### B. Test Plot:

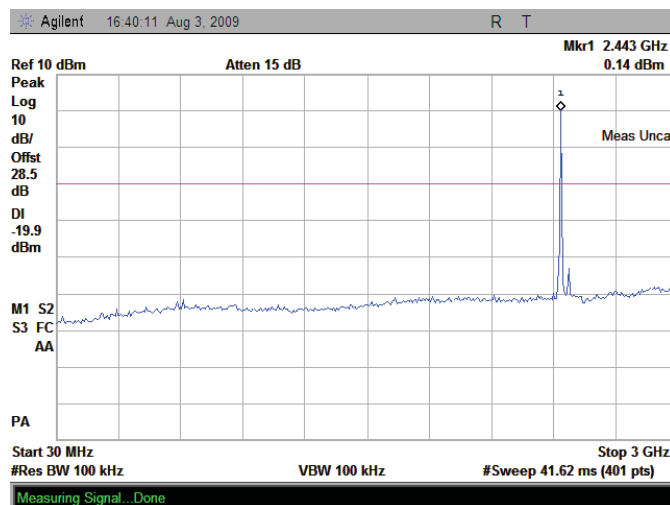
Note: the power of the Module transmitting frequency should be ignored.



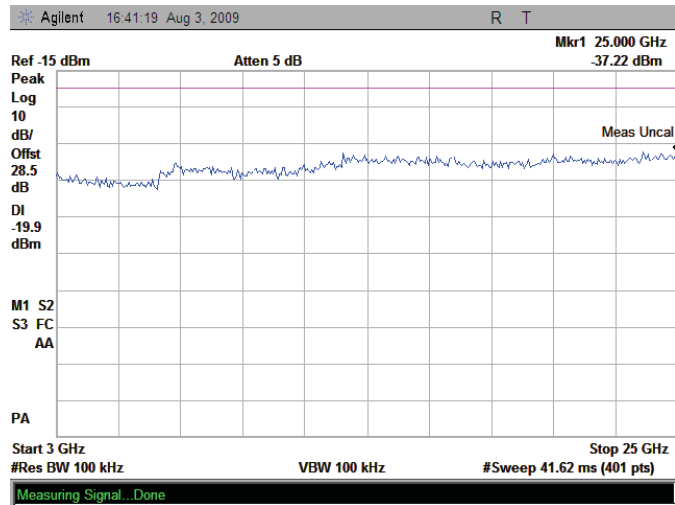
(Plot A.1: Channel = 0, 30MHz to 3GHz)



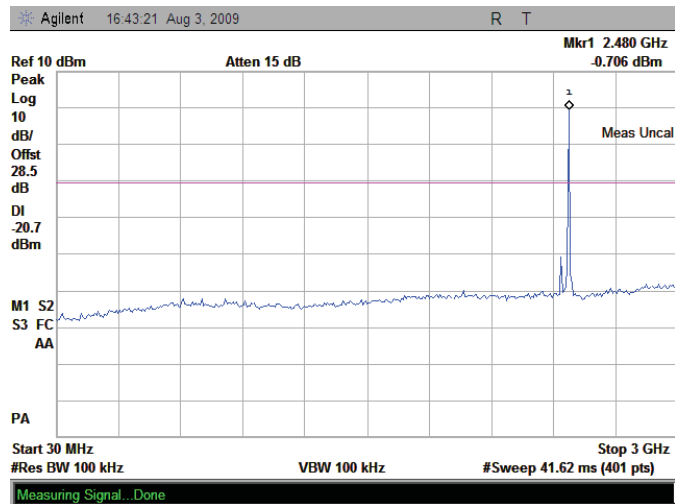
(Plot A.2: Channel = 0, 3GHz to 25GHz)



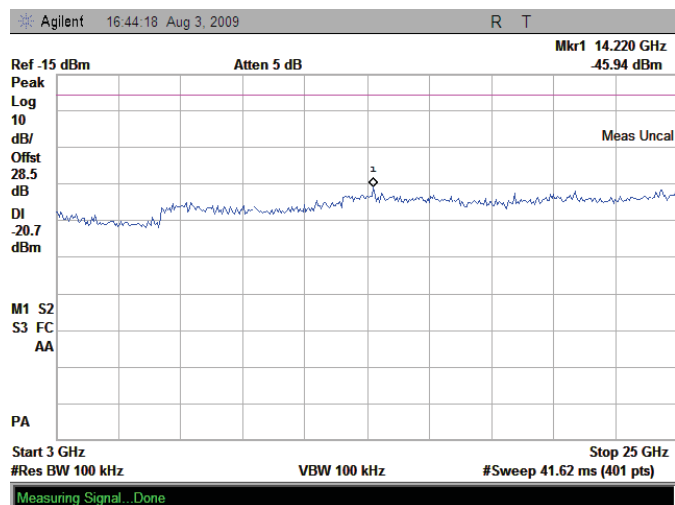
(Plot B.1: Channel = 39, 30MHz to 3GHz)



(Plot B.2: Channel = 39, 3GHz to 25GHz)



(Plot C.1: Channel = 78, 30MHz to 3GHz)



(Plot C.2: Channel = 78, 3GHz to 25GHz)

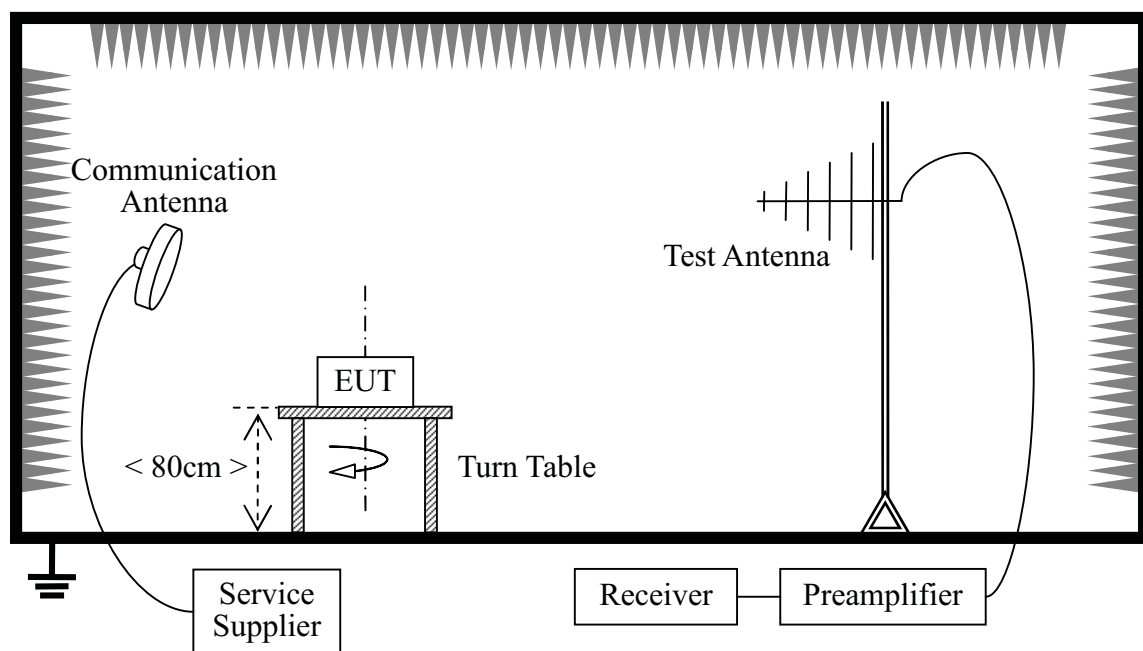
### 3.7 Band Edge

#### 3.7.1 Requirement

According to FCC section 15.247(c), 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.

#### 3.7.2 Test Description

##### A. Test Setup:



The Bluetooth Module of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. 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. During the measurement, the Bluetooth Module is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages at maximum power.

For the Test Antenna:

Horn 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..



## B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	R&S	CMU200	100448	2008.9	1year
Receiver	Agilent	E7405A	US44210471	2008.9	1year
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2008.9	2year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2008.9	1year

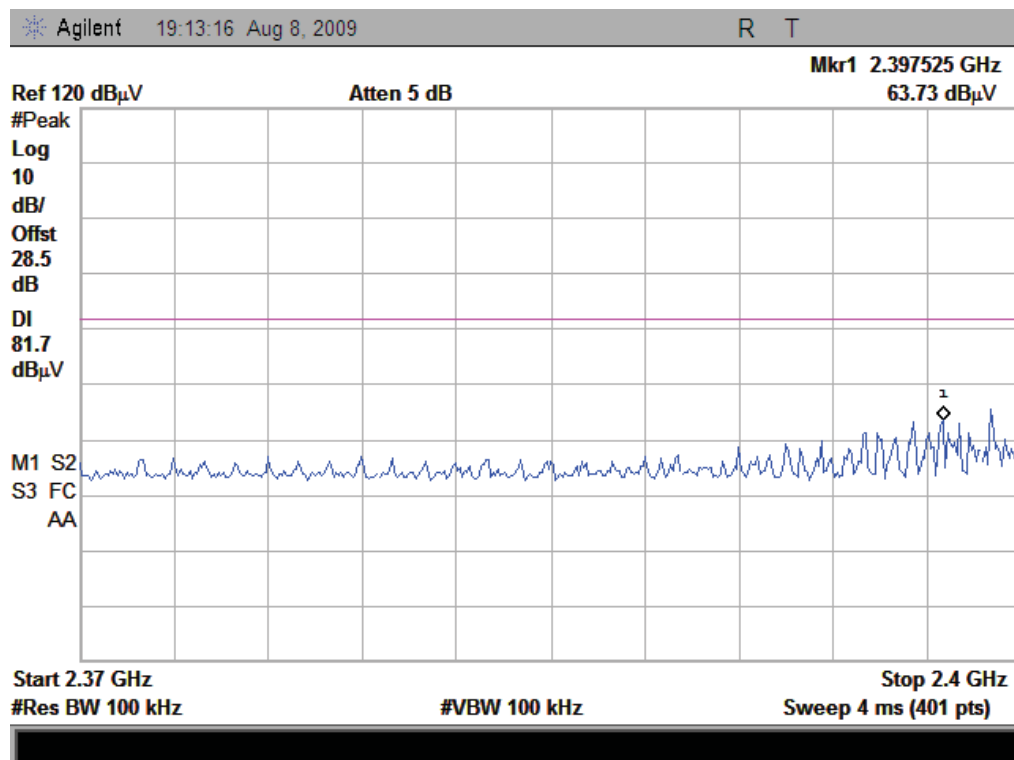
## 3.7.3 Test Result

The Bluetooth Module operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

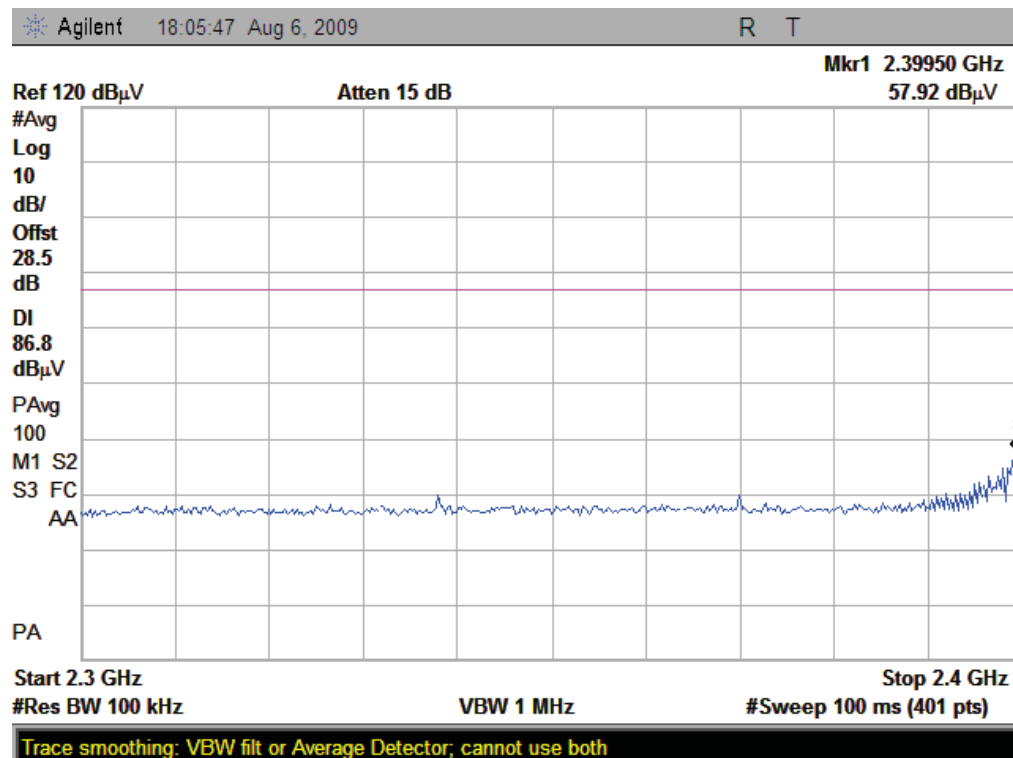
### A. Test Verdict:.

Channel	Frequency (MHz)	Max. Emission in the Restricted Bands (dB $\mu$ V/m)		Limit (dB $\mu$ V/m)		Verdict
		PK	AV	PK	AV	
0	2402	63.73	57.92	74	54	PASS
78	2480	62.6	54.58	74	54	PASS

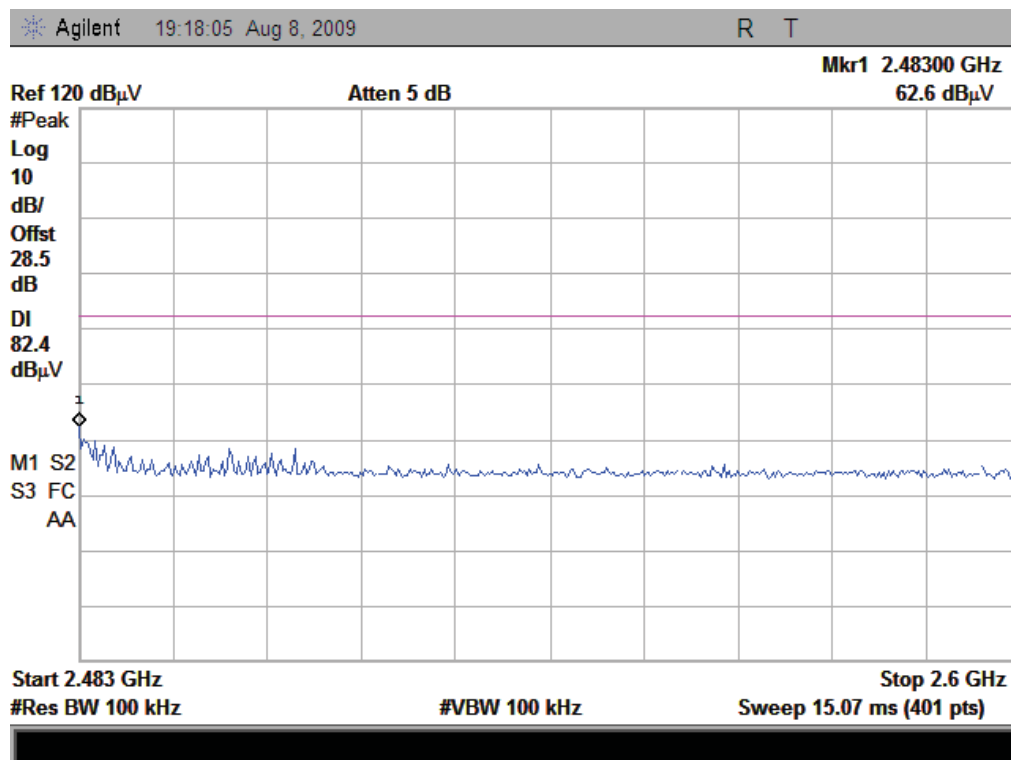
### B. Test Plot:



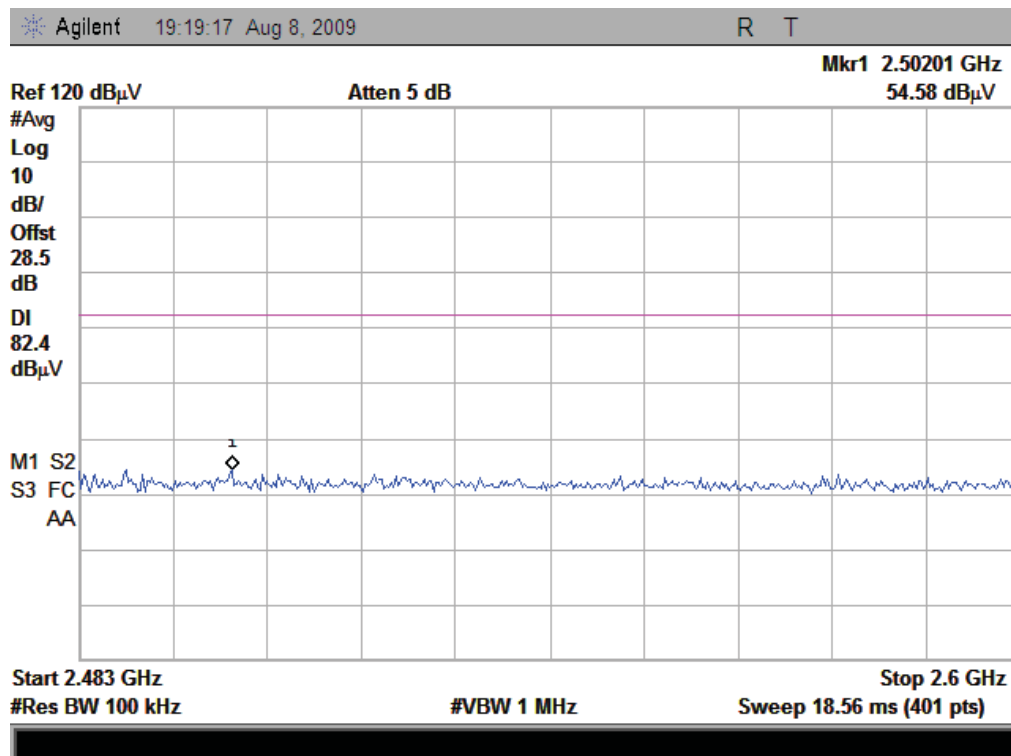
(Plot A1: Channel = 0 PEAK)



(Plot A2: Channel = 0 AVERAGE)



(Plot B1: Channel = 78 PEAK)



(Plot B2: Channel = 78 AVERAGE)

### 3.8 Conducted Emission

#### 3.8.1 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).

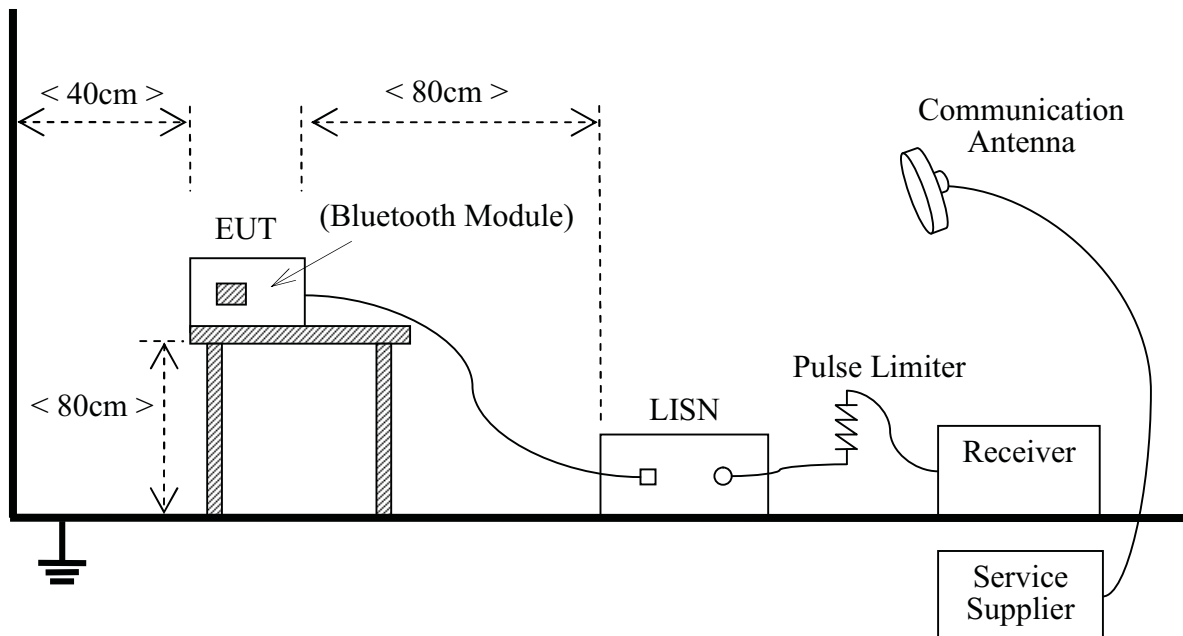
Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

NOTE:

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

#### 3.8.2 Test Description

##### A. Test Setup:



The Table-top 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. The set-up and test methods were according to ANSI C63.4:2003

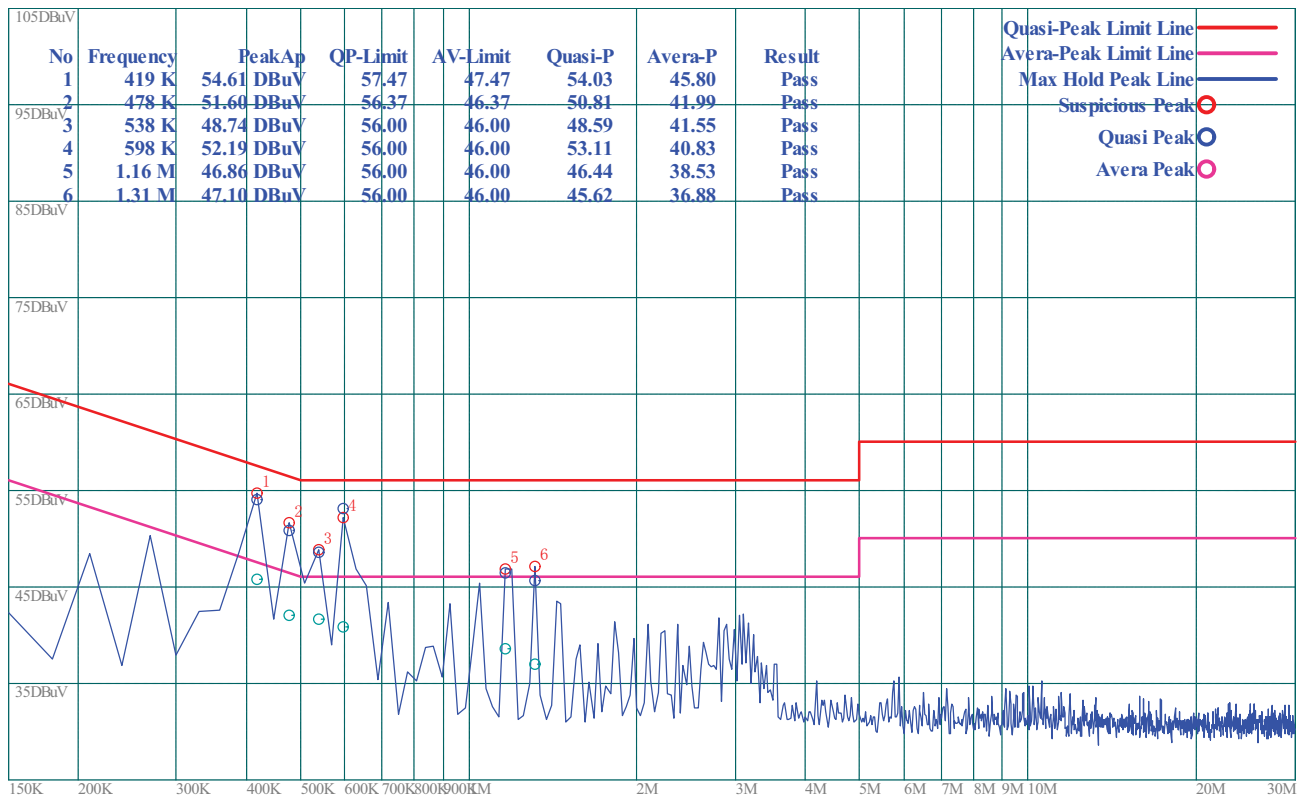
The Bluetooth Module of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The factors of the site are calibrated to correct the reading. During the measurement, the Bluetooth Module is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages at maximum power.

### B. Equipments List:

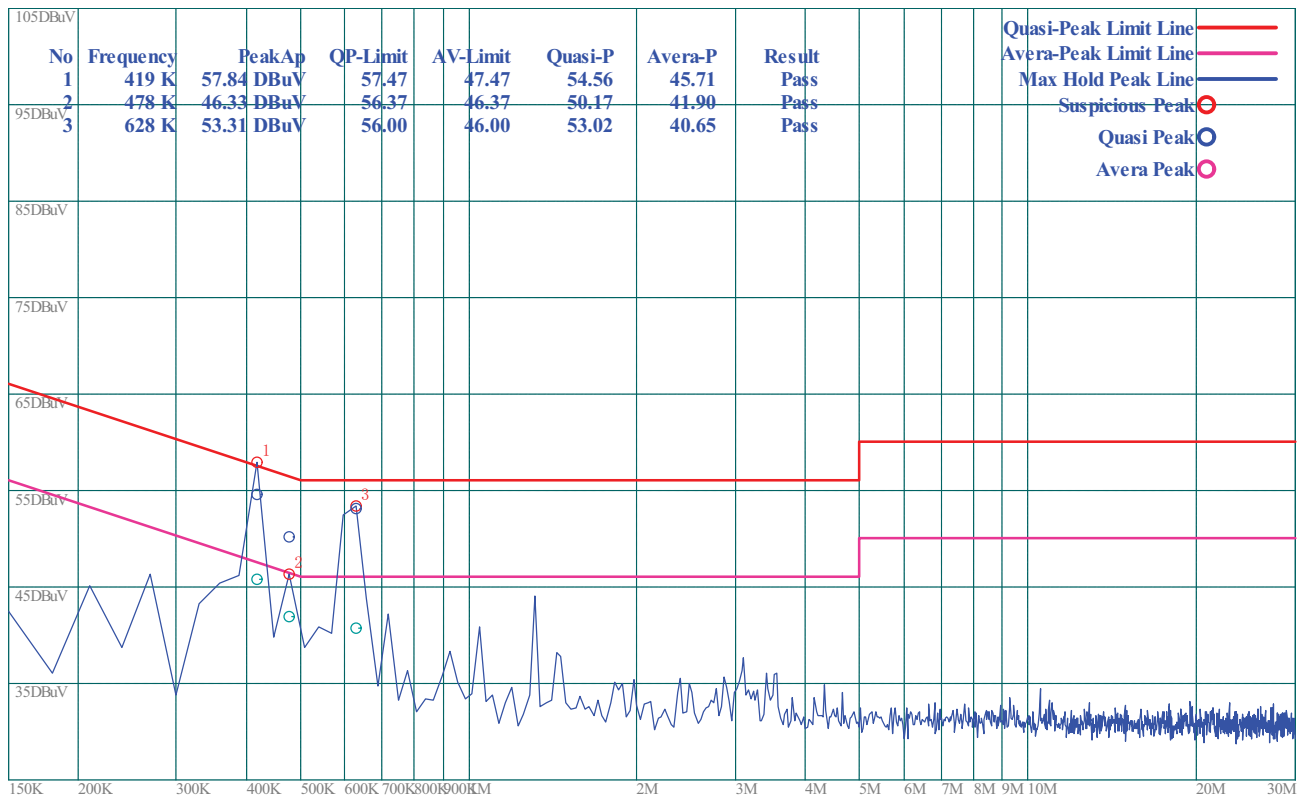
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2008.09	1year
LISN	Schwarzbeck	NSLK 8127	812744	2008.09	1year
Service Supplier	R&S	CMU200	100448	2008.09	1year
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	9391	(n.a.)	(n.a.)

### 3.8.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.



(Plot A: L Phase)



(Plot B: N Phase)

### 3.9 Radiated Emission

#### 3.9.1 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).

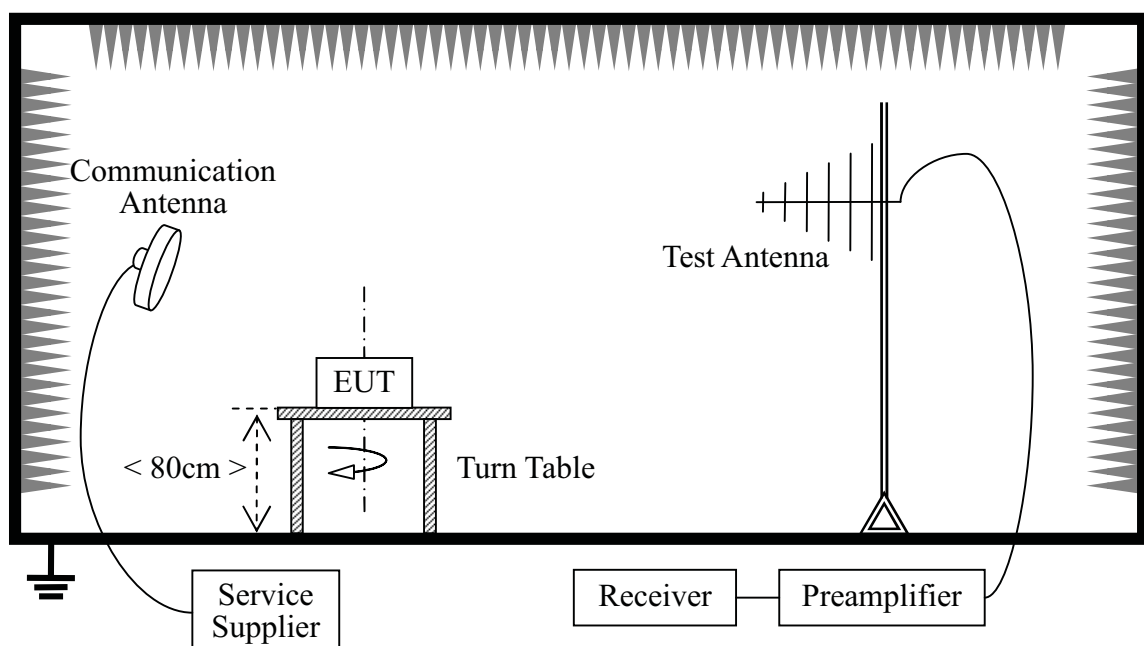
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V/m}$ )	Measurement Distance (m)	Detector
30 - 88	100	3	QP
88 - 216	150	3	QP
216 - 960	200	3	QP
960 - 1000	500	3	QP
Above 1000	500	3	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)

#### 3.9.2 Test Description

##### A. Test Setup:





The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2003). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The Bluetooth Module of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. 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. During the measurement, the Bluetooth Module is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages 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 0° to 360°, the receive antenna has two polarizations horizontal and vertical. When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during Vertical antenna.

## B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	R&S	CMU200	100448	2008.9	1year
Receiver	Agilent	E7405A	US44210471	2008.9	1year
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2008.9	2year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2008.9	1year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2008.9	1year
Test Antenna - Horn	ETS	3160-9	A0304261	2009.6	1year

## 3.9.3 Test Result

### A. Test Verdict for Harmonics:

#### The Fundamental Emissions

The field strength of {Fundamental Emission} listed below is recorded, and used in the next table.

Channel	Frequency (MHz)	Fundamental Emission (dBμV/m)		Antenna Polarization	Refer to Plot
		PK	AV		
0	2402	70.5	64.4	Horizontal	Plot A.1
		74.5	64.3	Vertical	Plot A.2
39	2441	66.3	60	Horizontal	Plot B.1
		64.0	57.4	Vertical	Plot B.2
78	2480	63.1	54.5	Horizontal	Plot C.1
		71.1	61.4	Vertical	Plot C.2

### The un-wanted Emissions:

#### Test result of channel: 0 (2402MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
265.8	31.8	46	-14.2	120	189	Horizontal
4804	34.7	54	-19.3	110	360	Horizontal
7206	36.2	54	-17.8	100	353	Horizontal
9608	37.5	54	-16.5	100	38	Horizontal
24020	51.2	54	-2.8	100	260	Horizontal
38.9	26.1	40	-13.9	120	180	Vertical
705	32.7	46	-13.3	140	145	Vertical
7206	36.3	54	-17.7	100	246	Vertical
9608	35.8	54	-18.2	100	350	Vertical
24020	50.6	54	-3.4	100	360	Vertical

#### Test result of channel: 39 (2442MHz)

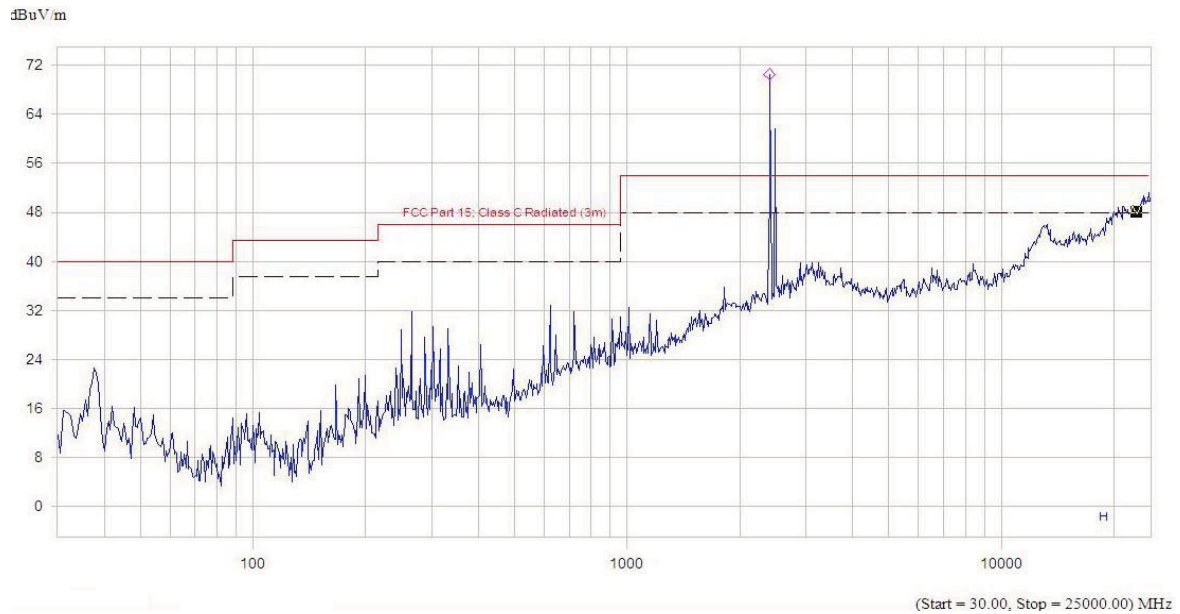
Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
265.8	33.5	46	-12.5	120	230	Horizontal
4882	35.2	54	-18.8	100	180	Horizontal
7323	36.5	54	-17.5	100	160	Horizontal
9764	37.5	54	-16.5	100	215	Horizontal
24410	50.9	54	-3.1	100	18	Horizontal
705	32.1	46	-13.9	130	180	Vertical
7323	36.4	54	-17.6	100	190	Vertical
9764	35.5	54	-18.5	100	75	Vertical
24410	50.7	54	-3.3	100	150	Vertical

#### Test result of channel: 78 (2480MHz)

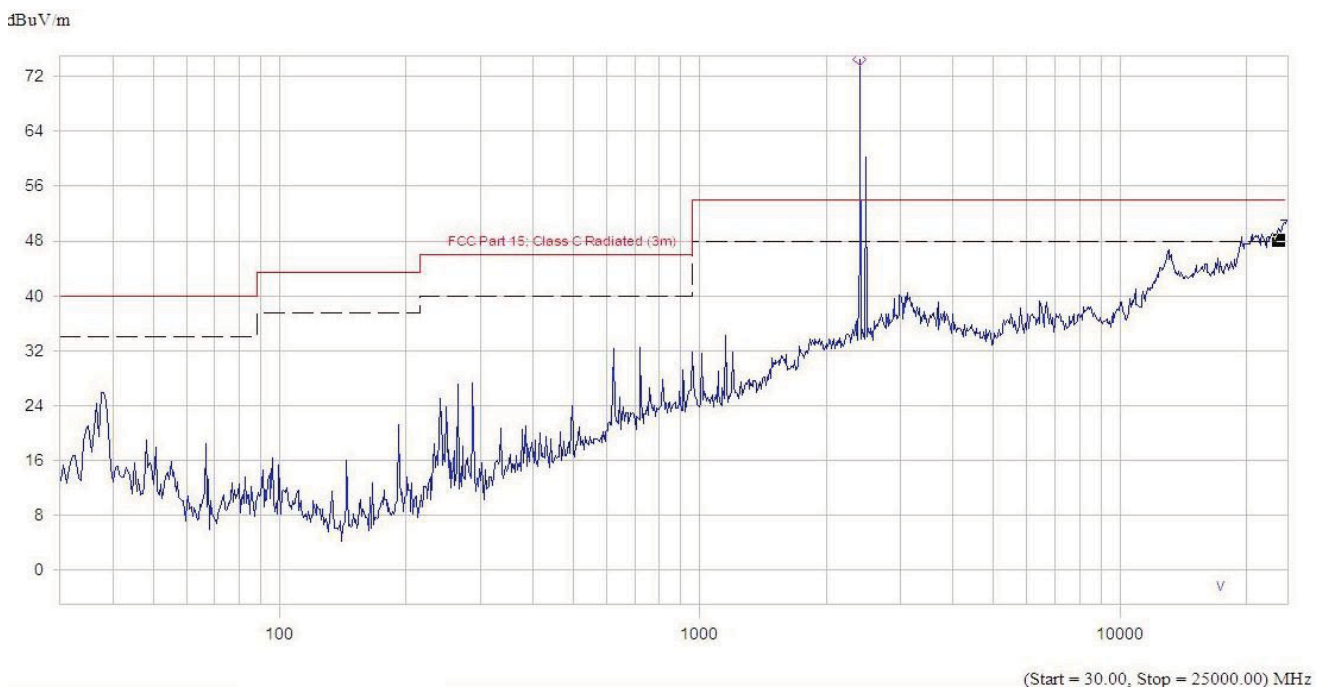
Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
705	32.1	46	-13.9	130	96	Horizontal
4960	34.8	54	-19.2	100	65	Horizontal
7440	36.3	54	-17.7	100	215	Horizontal
9920	37.8	54	-16.2	100	170	Horizontal
24800	51.9	54	-2.1	100	230	Horizontal
705	32.5	46	-13.5	110	335	Vertical
7440	36.7	54	-17.3	100	90	Vertical
9920	35.2	54	-18.8	100	165	Vertical
24800	51.4	54	-2.6	100	280	Vertical

## B. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 0

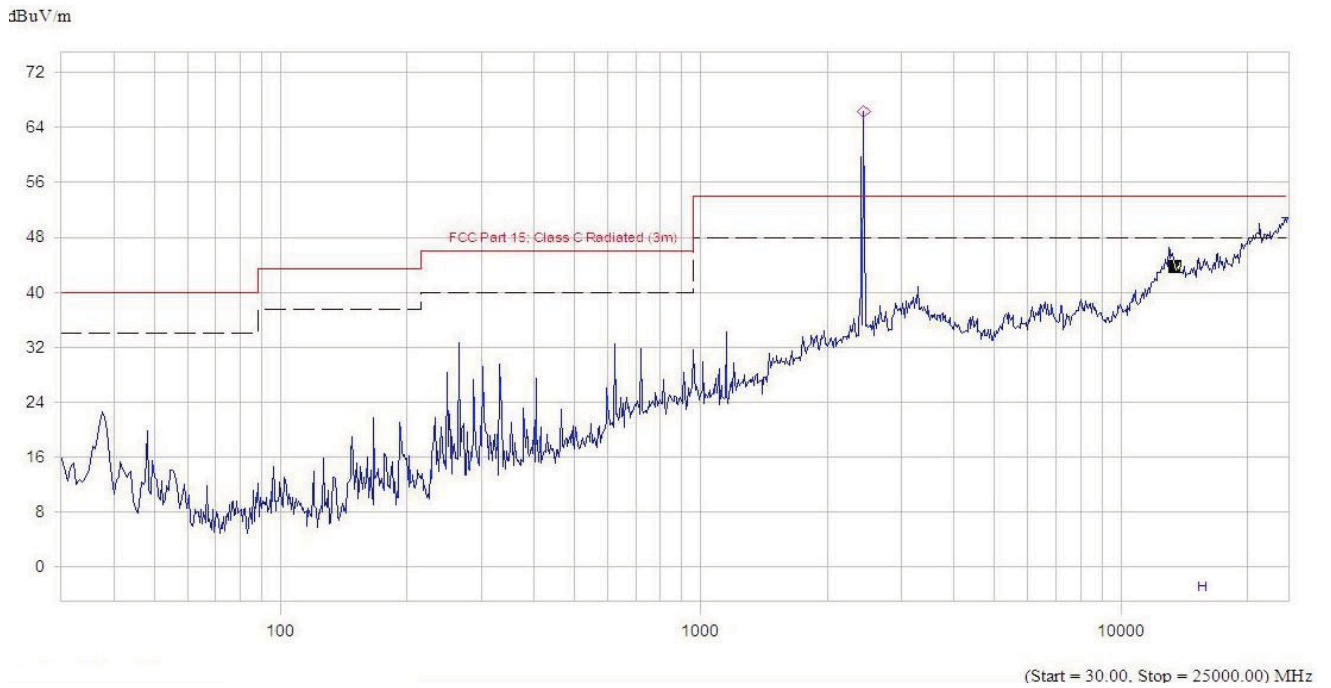


(Plot A.1: Antenna Horizontal)

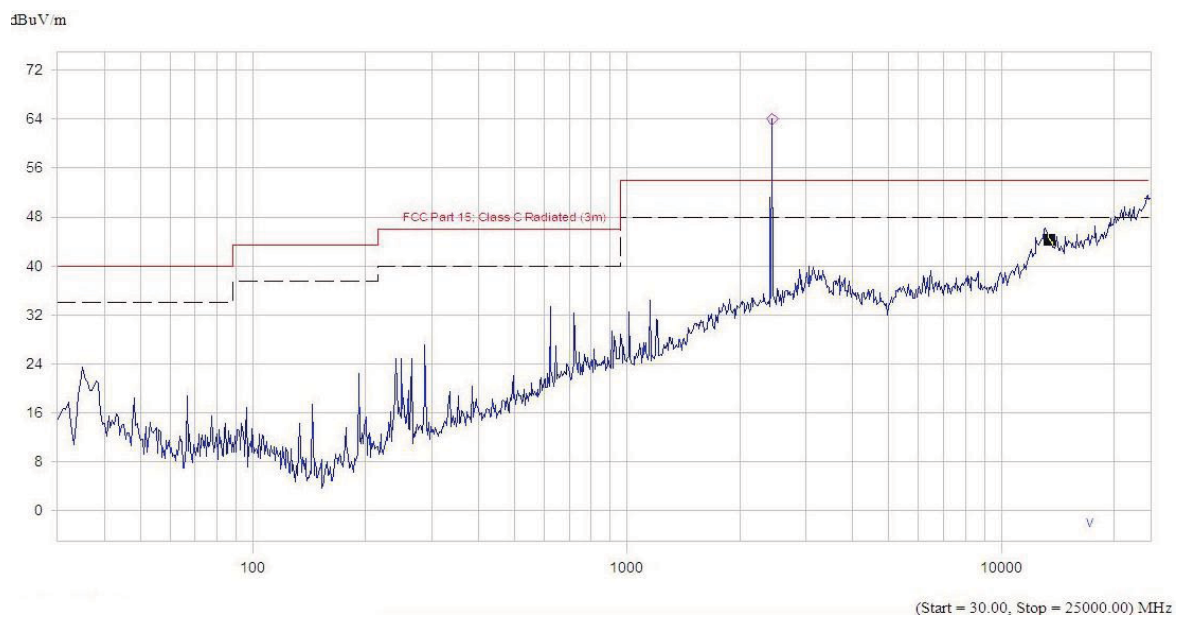


(Plot A.2: Antenna Vertical)

### Plot for Channel = 39

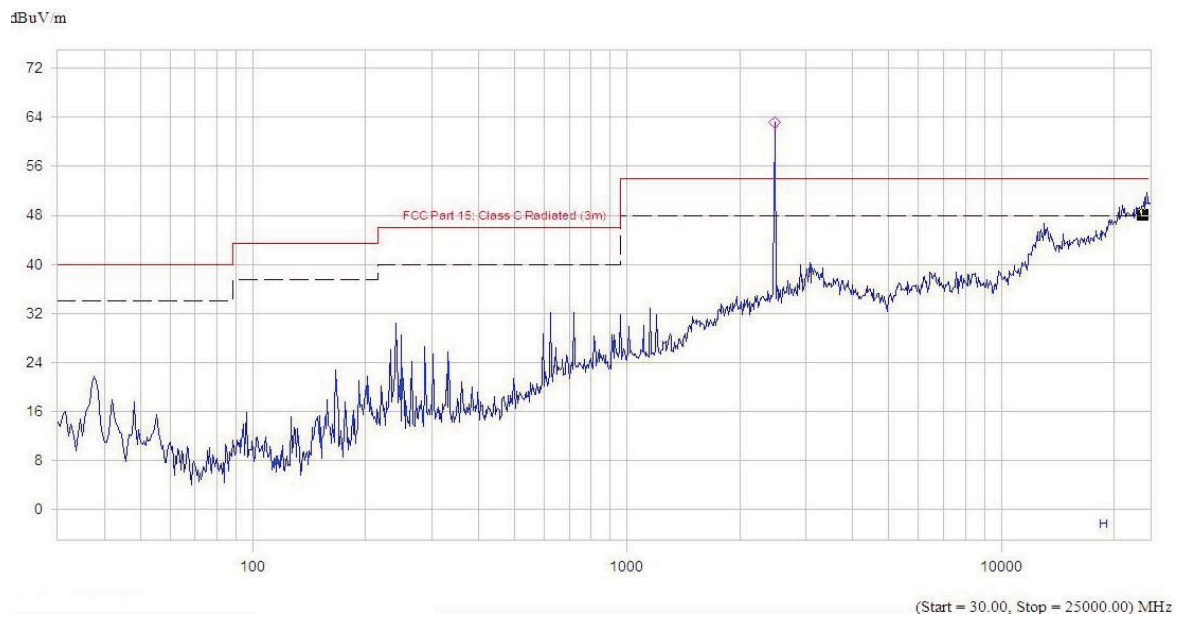


(Plot B.1: Antenna Horizontal)

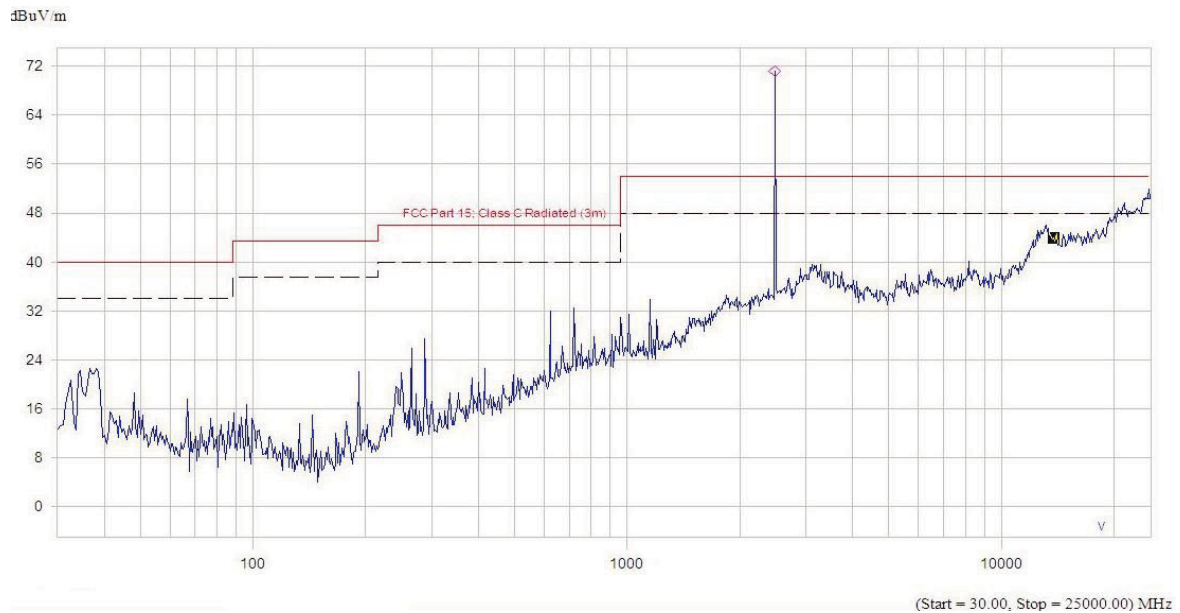


(Plot B.2: Antenna Vertical)

Plot for Channel = 78



(Plot C.1: Antenna Horizontal)



(Plot C.2: Antenna Vertical)

**\*\* END OF REPORT \*\***