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## FCC PART 15 SUBPART C TEST REPORT

Report Reference No.: CTL1505301453-WB02

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Product Name.....: Tablet phone

Model/Type reference.....: SKY 7.0Q

List Model(s).....: /

Trade Mark.....: N/A

FCC ID.....: 2AE4P-SKY70Q

Applicant's name.....: ShenZhen KINODA Technology Co.,Ltd

Address of applicant.....: ROOM 5B-9, CHE KUNG TEMPLE OF TRADE AND INDUSTRY PARK  
213, FUTIAN DISTRICT, SHENZHEN, CHINA

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan  
District, Shenzhen, China 518055

Test specification.....:

Standard.....: FCC Part 15.249: Operation within the bands 920-928 MHz, 2400-  
2483.5 MHz, 5725-5850 MHz and 24.0 - 24.25 GHz.

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of Receipt.....: May 30, 2015

Date of Test Date.....: May 30, 2015 – July 02, 2015

Data of Issue.....: July 02, 2015

Result.....: Positive

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**TEST REPORT**

<b>Test Report No. :</b> CTL1505301453-WB02	July 02, 2015
	Date of issue

**Equipment under Test** : Tablet phone

**Model /Type** : SKY 7.0Q

**Applicant** : ShenZhen KINODA Technology Co.,Ltd

**Address** : ROOM 5B-9, CHE KUNG TEMPLE OF TRADE AND  
INDUSTRY PARK 213, FUTIAN DISTRICT, SHENZHEN,  
CHINA

**Manufacturer** ShenZhen KINODA Technology Co.,Ltd

**Address** ROOM 5B-9, CHE KUNG TEMPLE OF TRADE AND  
INDUSTRY PARK 213, FUTIAN DISTRICT, SHENZHEN,  
CHINA

**Test Result** according to the  
standards on page 4:

**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## **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**



## 2. SUMMARY

## 2.1. Equipment Under Test

### Power supply system utilised

Power supply voltage : ☒ 120V / 60 Hz ☐ 115V / 60Hz  
☐ 12 V DC ☐ 24 V DC  
☒ Other (specified in blank below)

DC 3.7V from battery

## 2.2. Description of The Equipment Under Test (EUT)

The **ShenZhen KINODA Technology Co., Ltd's** Model: SKY 7.0Q or the “EUT” as referred to in this report; more general information as follows, for more details, refer to the user’s manual of the EUT.

General Description	
Name of EUT	Tablet phone
Brand	/
Model	SKY 7.0Q
Hardware version	M699_8312_MB_V1.2_150430
Software version	V1.2
IMEI	352585060680174
Device category	Portable Device
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Rated Vlotage	DC 3.70 Battery
Hotsopt	Supported, power not reduced when Hotspot open
<p><i>The EUT is GSM850/900/DCS1800/PCS1900, UMTS Band I,II,V Tablet phone. the Tablet phone is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850, PCS1900, UMTS Band II, Band V and Bluetooth, WiFi, and camera functions. For more information see the following datasheet</i></p>	

Technical Characteristics	
2G	
Support Networks	GSM, GPRS, EDGE
Support Band	GSM850/PCS1900
Uplink Frequency	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Frequency	GSM/GPRS/EDGE 850: 869~894MHz GSM/GPRS/EDGE 1900: 1930~1990MHz
Type of Modulation	GMSK, 8PSK for only downlink
Antenna Type	Internal Antenna
Antenna Gain	1.0 dBi for GSM850 0.5 dBi for DCS 1900
GPRS/EDGE Class	Class 12
HSDPA UE Category	10
HSUPA UE Category	6
GSM Release Version	R99
GPRS operation mode	Class B
DTM Mode	Not Supported
3G	
Support Networks	UMTS
Support Band	UMTS Band II, Band V
Type of Modulation	QPSK
Antenna Type	Internal Antenna
Antenna Gain	1.0 dBi for WCDMA Band V 0.5 dBi for WCDMA Band II
WiFi	
Support Standards	802.11b, 802.11g, 802.11n
Frequency Range	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
Type of Modulation	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM



Data Rate	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels	11 for 11b/g/n(HT20), 7 for 11n(HT40)
Channel Separation	5MHz
Antenna Type	Internal Antenna
Antenna Gain	0 dBi
Bluetooth	
Bluetooth Version	V3.0+EDR/V4.0
Frequency Range	2402-2480MHz
Data Rate	1Mbps, 2Mbps, 3Mbps
Modulation	GFSK, $\pi/4$ QDPSK, 8DPSK
Quantity of Channels	79/40
Channel Separation	1MHz/2MHz
Antenna Type	Internal Antenna
Antenna Gain	0 dBi

## Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2456
01	2404	28	2458
02	2406	29	2460
03	2408	30	2462
04	2410	31	2464
05	2412	32	2466
06	2414	33	2468
07	2416	34	2470
08	2418	35	2472
09	2420	36	2474
10	2422	37	2476
11	2424	38	2478
12	2426	39	2480
13	2428		
14	2430		
15	2432		
16	2434		
17	2436		
18	2438		
19	2440		
20	2442		
21	2444		
22	2446		
23	2448		
24	2450		
25	2452		
26	2454		

Modulation: GFSK

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

### 2.3. EUT operation mode

Test Mode(TM)	Description	Remark
TM1	Bottom Channel Transmitting	/
TM2	Middle Channel Transmitting	/
TM3	Top Channel Transmitting	/
TM4	Charging and keeping TX	AC adapter charging

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

**Remark:** The worst case mode is TM1(1Mbps) reported for unwanted emission and band edge test.

### 2.4. EUT configuration

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

o - supplied by the manufacturer

● - supplied by the lab

● AC adapter

Dongguan Jin Ding Bao Electronics

Manufacturer : Techology Co.LTD

Model No. : SKY 7.0Q

### 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AE4P-SKY70Q** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

### 2.6. Modifications

No modifications were implemented to meet testing criteria.

### **3. TEST ENVIRONMENT**

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

Shenzhen CTL Testing Technology Co., Ltd.  
Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 22/EN 55022 requirements.

#### **3.2. Test Facility**

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

##### **IC Registration No.: 9618B**

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

##### **FCC-Registration No.: 970318**

Shenzhen CTL Testing Technology 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 970318, December 19, 2013.

#### **3.3. Environmental conditions**

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

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

#### **3.4. Configuration of Tested System**

**Fig. 2-1 Configuration of Tested System**





### 3.5. 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 within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, 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.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~26.5GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



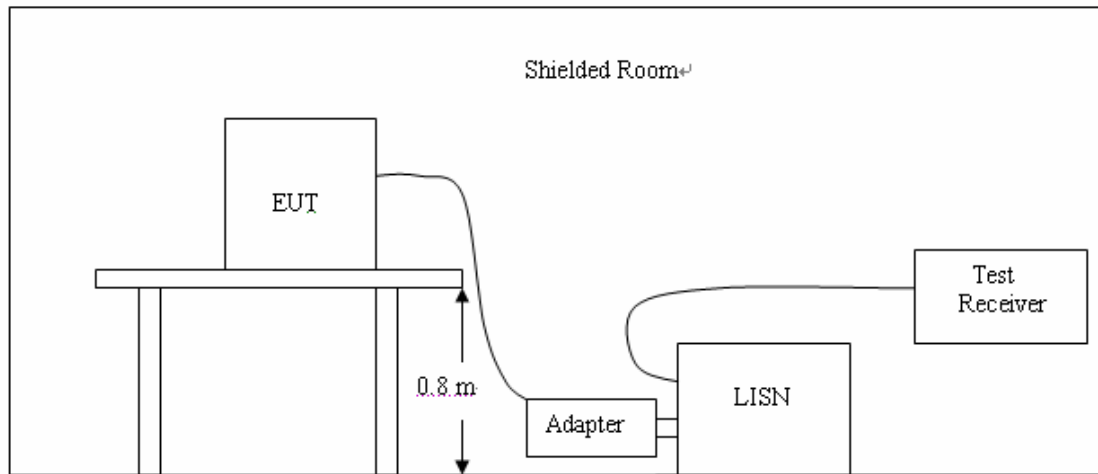
### 3.6. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
ULTRA-ROADBAND ANTENNA	Sunol Sciences Corp.	JB1	A061713	2015/06/02	2016/06/01
EMI Test Receiver	R&S	ESCI	103710	2015/06/02	2016/06/01
Spectrum Analyzer	Agilent	E4407B	MY41440676	2015/05/21	2016/05/20
Controller	EM Electronics	Controller EM 1000	N/A	2015/05/21	2016/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2015/05/19	2016/05/18
Active Loop Antenna	Daze	ZN30900A	N/A	2015/05/19	2016/05/18
LISN	R&S	ENV216	3560.6550.12	2015/06/02	2016/06/01
LISN	R&S	ESH2-Z5	860014/010	2015/06/02	2016/06/01
ISN	FCC	F-071115-1057-1-09	11229	2015/05/19	2016/05/18
Amplifier	Agilent	8349B	3008A02306	2015/05/19	2016/05/18
Amplifier	Agilent	8447D	2944A10176	2015/05/19	2016/05/18
Transient Limiter	SCHWARZCECK	VTSD 9561F	9666	2015/06/02	2016/06/01
Radio Communication Tester	R&S	CMU200	115419	2015/05/22	2016/05/21
Temperature/Humidity Meter	Gangxing	CTH-608	02	2015/05/20	2016/05/19
SIGNAL GENERATOR	Agilent	E4421B	US40051744	2015/05/20	2016/05/19
Wideband Peak Power Meter	Anritsu	ML2495A	220.23.35	2015/05/20	2016/05/19
Climate Chamber	ESPEC	EL-10KA	A20120523	2015/05/20	2016/05/19
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	N/A	2015/05/20	2016/05/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	N/A	2015/05/20	2016/05/19
RF Cable	HUBER+SUHNER	RG214	N/A	2015/05/20	2016/05/19

## **4. TEST CONDITIONS AND RESULTS**

### **4.1. Conducted Emissions Test**

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2 Support equipment, if needed, was placed as per ANSI C63.10.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4 If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

**The RBW/VBW for 150KHz to 30MHz: 9KHz**

**CONDUCTED POWER LINE EMISSION LIMIT**

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

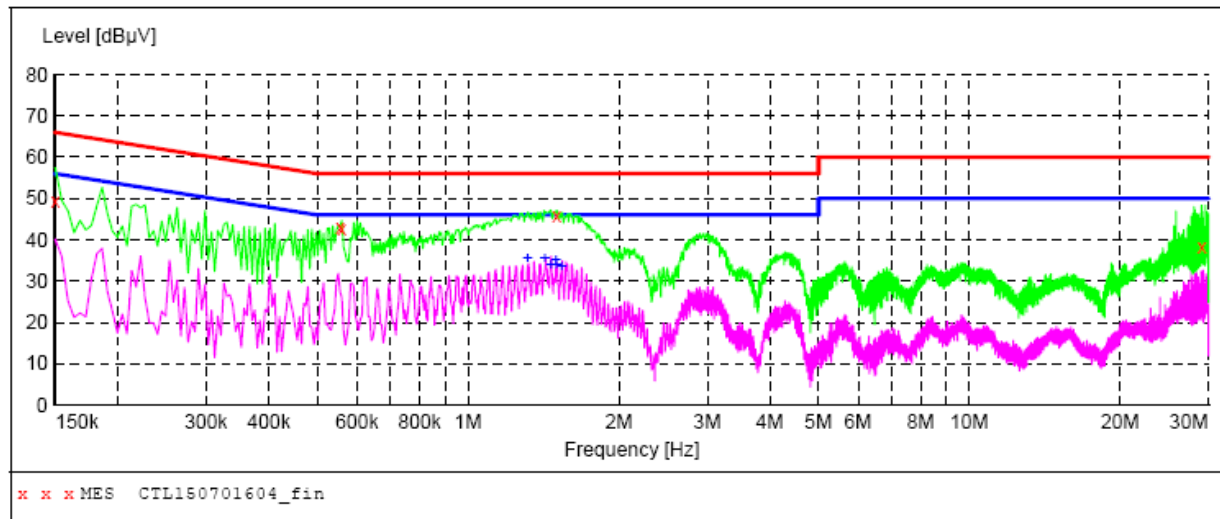
Frequency (MHz)	Maximum RF Line Voltage (dBµV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

**TEST RESULTS*****SCAN TABLE: "Voltage (9K-30M)FIN"***

Short Description: 150K-30M Voltage

***MEASUREMENT RESULT: "CTL150701604\_fin"***

7/1/2015 3:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	49.20	10.2	66	16.8	QP	L1	GND
0.555000	43.20	10.2	56	12.8	QP	L1	GND
0.559500	42.80	10.2	56	13.2	QP	L1	GND
1.500000	45.90	10.3	56	10.1	QP	L1	GND
29.058000	38.40	11.2	60	21.6	QP	L1	GND

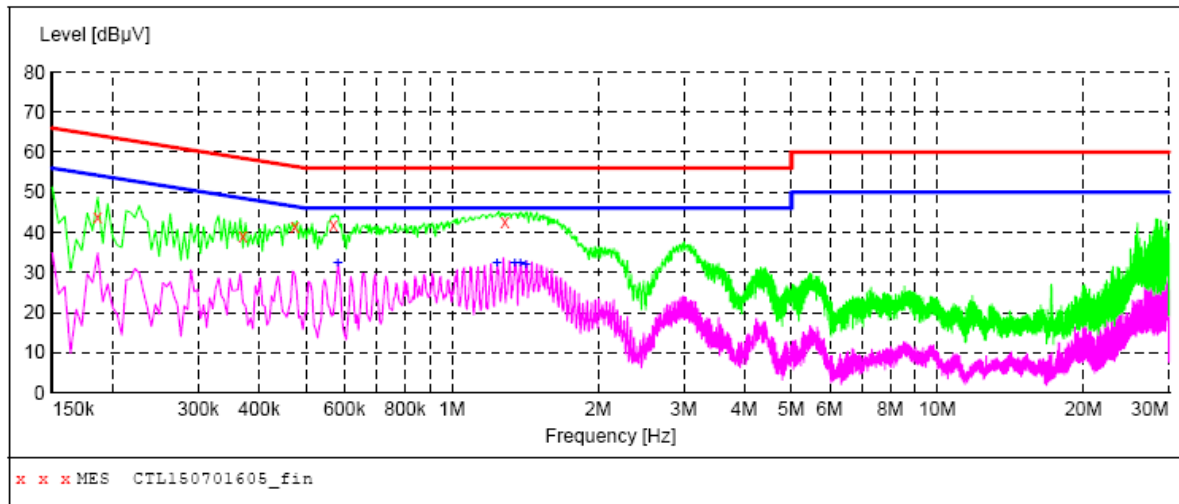
***MEASUREMENT RESULT: "CTL150701604\_fin2"***

7/1/2015 3:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
1.315500	35.30	10.3	46	10.7	AV	L1	GND
1.423500	35.50	10.3	46	10.5	AV	L1	GND
1.464000	34.10	10.3	46	11.9	AV	L1	GND
1.495500	35.10	10.3	46	10.9	AV	L1	GND
1.500000	34.00	10.3	46	12.0	AV	L1	GND
1.536000	33.60	10.3	46	12.4	AV	L1	GND

**SCAN TABLE: "Voltage (9K-30M)FIN"**

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL150701605\_fin"**

7/1/2015 3:11PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	43.70	10.2	64	20.5	QP	N	GND
0.370500	38.90	10.2	59	19.6	QP	N	GND
0.474000	41.50	10.2	56	14.9	QP	N	GND
0.568500	41.90	10.2	56	14.1	QP	N	GND
1.284000	42.60	10.3	56	13.4	QP	N	GND

**MEASUREMENT RESULT: "CTL150701605\_fin2"**

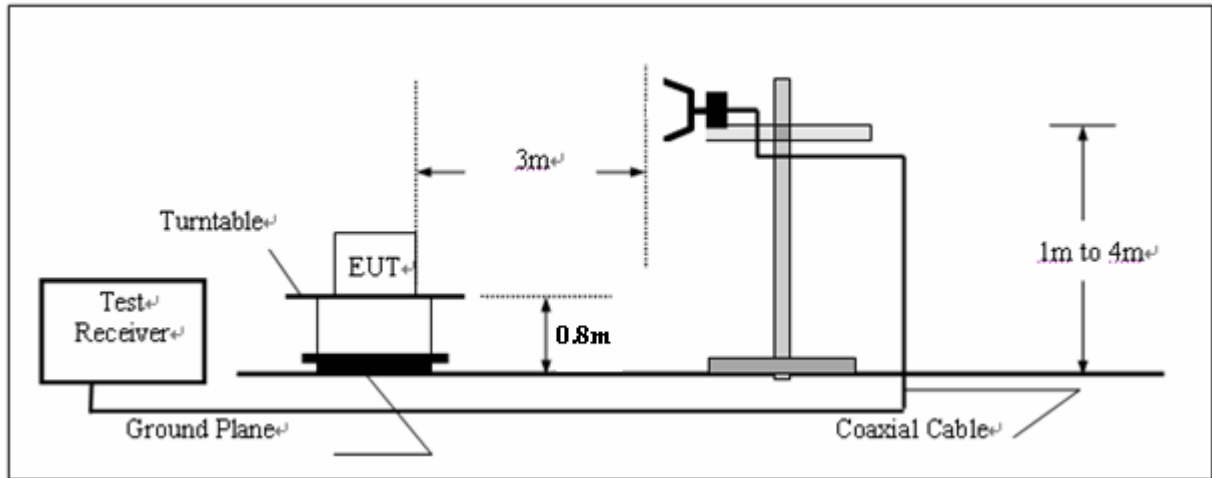
7/1/2015 3:11PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.582000	32.20	10.2	46	13.8	AV	N	GND
1.239000	32.40	10.3	46	13.6	AV	N	GND
1.347000	32.20	10.3	46	13.8	AV	N	GND
1.383000	32.30	10.3	46	13.7	AV	N	GND
1.419000	32.00	10.3	46	14.0	AV	N	GND



## 4.2. Fundamental Emissions

### TEST CONFIGURATION



### Fundamental Emissions Limit

2400-2483.5 MHz Band: 94 dBuV/m (average)

For the transmitter emissions shall be measured using following options below:

Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. Adjusted by a “duty Cycle correction factor”, derived from  $20\log(\text{dwell time}/100 \text{ ms})$ . Average emission = peak emission +  $20\log(\text{duty cycle})$ .

Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.

### TEST RESULTS

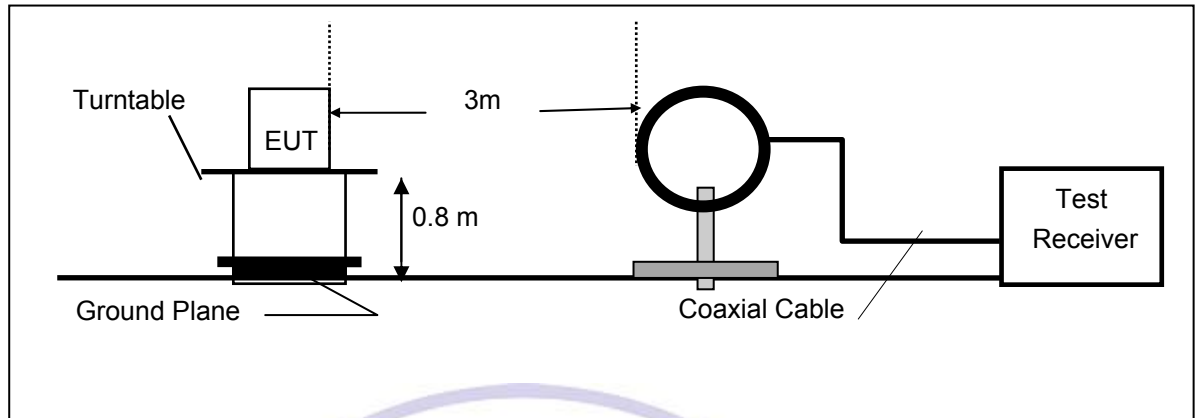
Field Strength of Fundamental Emissions Result					
Modulation	Frequency	Max.Fundamental	Margin	Limit	Type
Mode	(MHz)	(dBuV/m)@3m	(dB)	(dBuV/m)@3m	
GFSK	2402	88.72	25.28	114	peak
GFSK	2402	68.89	25.11	94	average
GFSK	2440	87.93	26.07	114	peak
GFSK	2440	67.14	26.86	94	average
GFSK	2480	87.05	26.95	114	peak
GFSK	2480	67.98	26.02	94	average

Note: Measurement worst emissions of receive antenna polarization: Vertical.

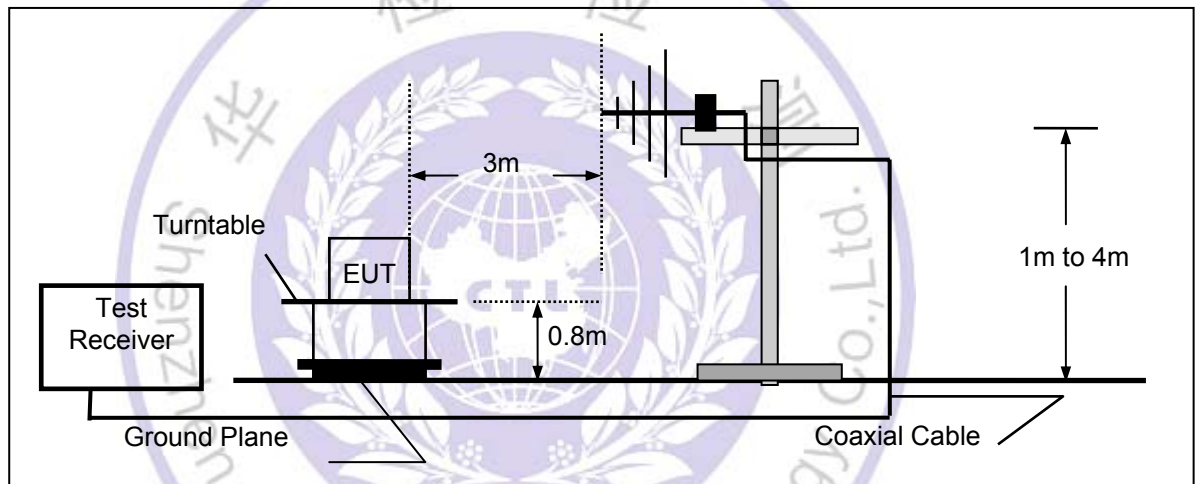
### 4.3. Transmitter Radiated Unwanted Emissions

#### TEST CONFIGURATION

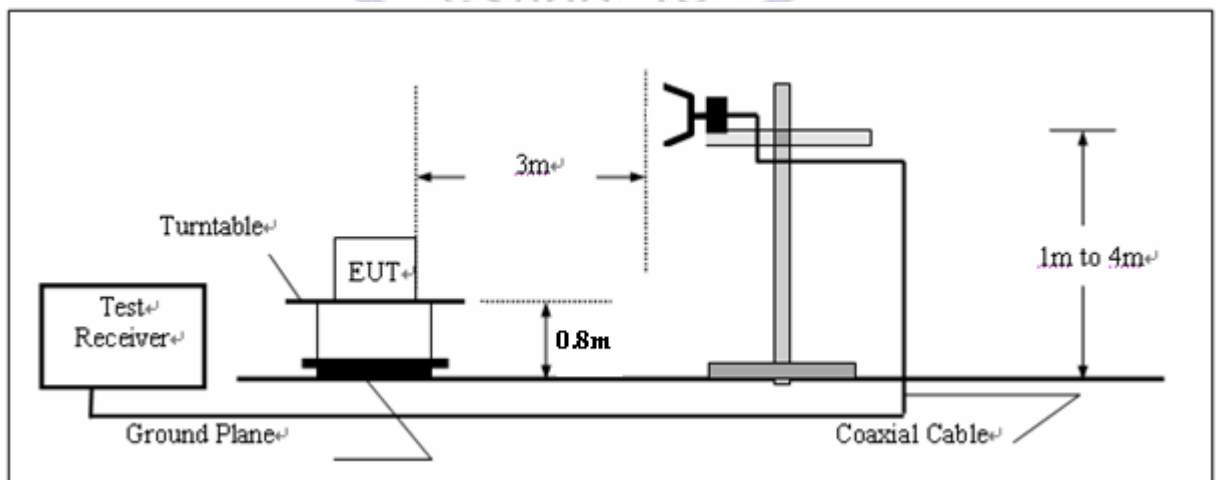
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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



**FIELD STRENGTH CALCULATION**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

**RADIATION LIMIT**

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

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

**TEST PROCEDURE**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. Based on the Frequency Generator in the device include 26MHz. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

**Note:**

Three axes are chosen for pretest, the Y axis is the worst mode for final test.

For battery operated equipment, the equipment tests shall be performed using a new battery.

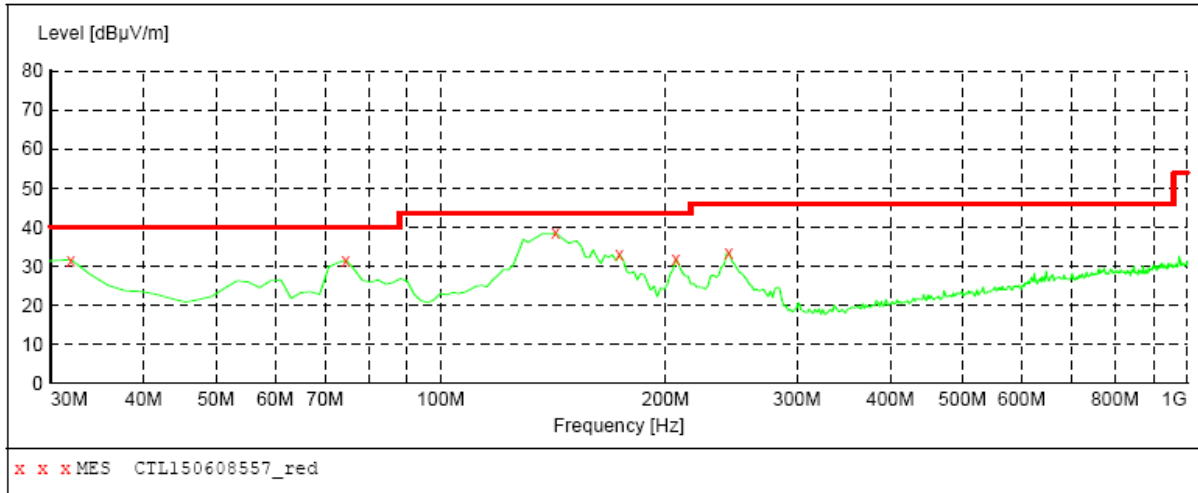
## TEST RESULTS

All the test modes (TM1, TM2, TM3 and TM4) completed for test. The worst case of Radiated Emission is TM1; the test data of this mode was reported.

Below 1GHz Test Results:

### SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1



### MEASUREMENT RESULT: "CTL150608557\_red"

6/8/2015 6:23PM

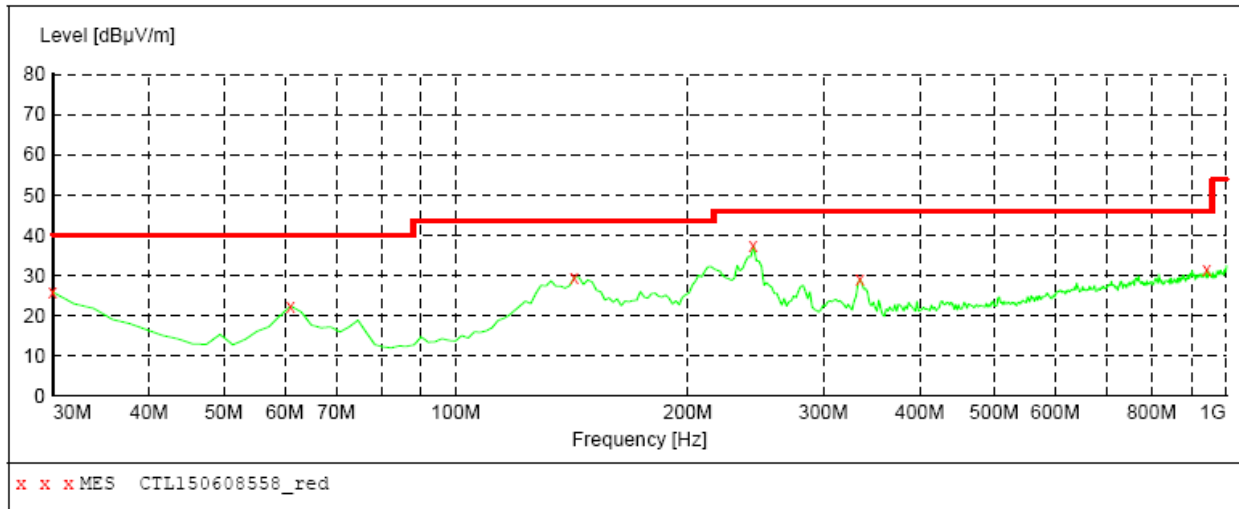
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	31.60	19.6	40.0	8.4	---	0.0	0.00	VERTICAL
74.620000	31.50	8.5	40.0	8.5	---	0.0	0.00	VERTICAL
142.520000	38.50	14.5	43.5	5.0	---	0.0	0.00	VERTICAL
173.560000	32.90	13.3	43.5	10.6	---	0.0	0.00	VERTICAL
206.540000	31.80	14.3	43.5	11.7	---	0.0	0.00	VERTICAL
243.400000	33.50	14.1	46.0	12.5	---	0.0	0.00	VERTICAL

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

***SWEEP TABLE: "test (30M-1G)"***

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1

***MEASUREMENT RESULT: "CTL150608558\_red"***

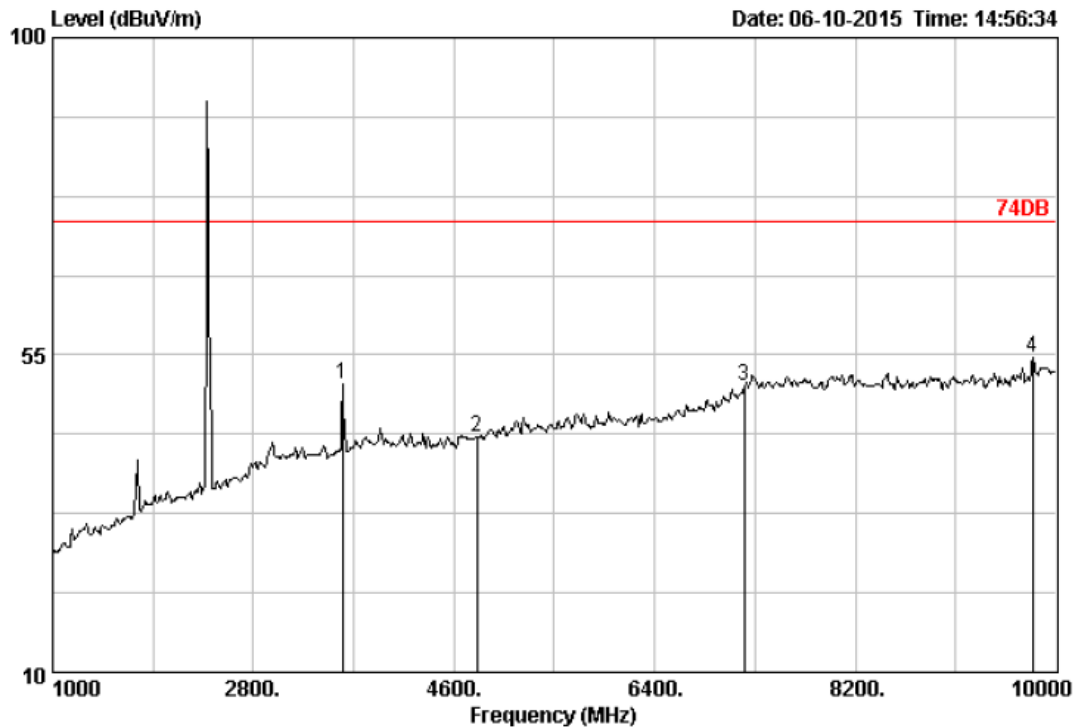
6/8/2015 6:25PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.70	21.1	40.0	14.3	---	0.0	0.00	HORIZONTAL
61.040000	22.30	8.4	40.0	17.7	---	0.0	0.00	HORIZONTAL
142.520000	29.50	14.5	43.5	14.0	---	0.0	0.00	HORIZONTAL
243.400000	37.40	14.1	46.0	8.6	---	0.0	0.00	HORIZONTAL
334.580000	28.90	16.4	46.0	17.1	---	0.0	0.00	HORIZONTAL
943.740000	31.30	26.6	46.0	14.7	---	0.0	0.00	HORIZONTAL

**Remark:**

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



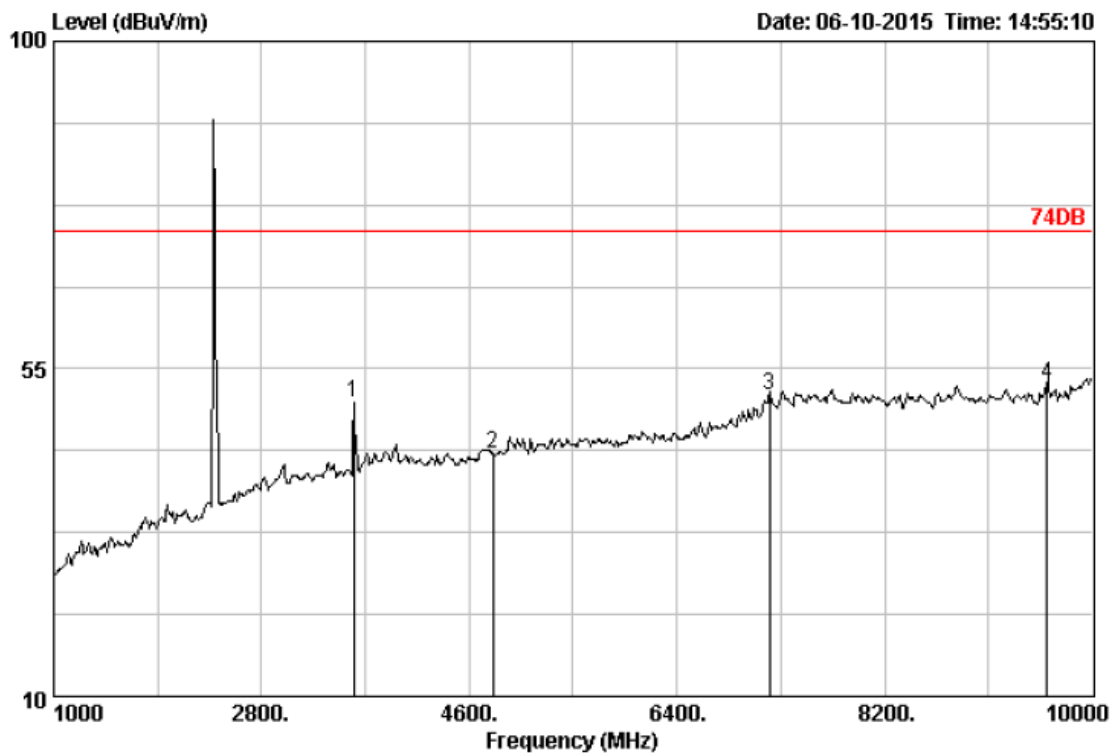
**Above 1 GHz Test Results:****Bottom Channel (2402MHz):**

Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1447  
 Ant. pol. : HORIZONTAL

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	3601.00	32.02	5.94	35.08	47.87	50.75	74.00	23.25	Peak
2	4804.00	33.48	6.91	34.34	37.20	43.25	74.00	30.75	Peak
3	7206.00	36.92	9.18	35.03	39.48	50.55	74.00	23.45	Peak
4	9793.00	38.69	11.05	35.62	40.48	54.60	74.00	19.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

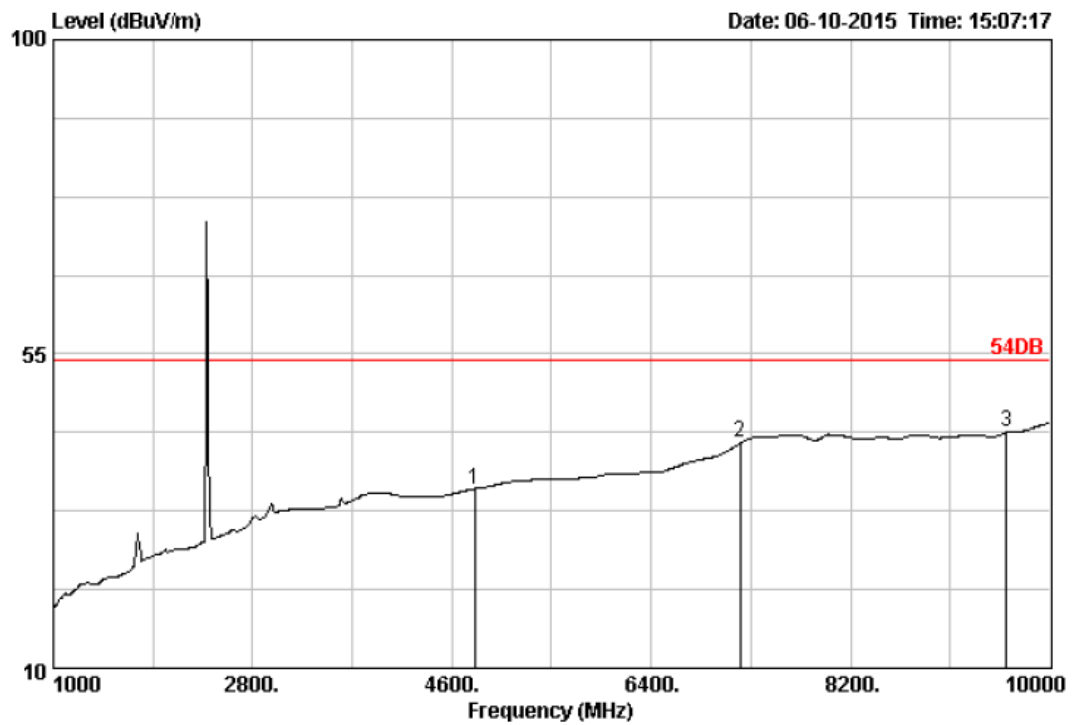


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1446  
 Ant. pol. : VERTICAL

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	3601.00	32.02	5.94	35.08	47.46	50.34	74.00	23.66	Peak
2	4804.00	33.48	6.91	34.34	37.23	43.28	74.00	30.72	Peak
3	7206.00	36.92	9.18	35.03	40.19	51.26	74.00	22.74	Peak
4	9608.00	38.53	10.97	35.99	39.38	52.89	74.00	21.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

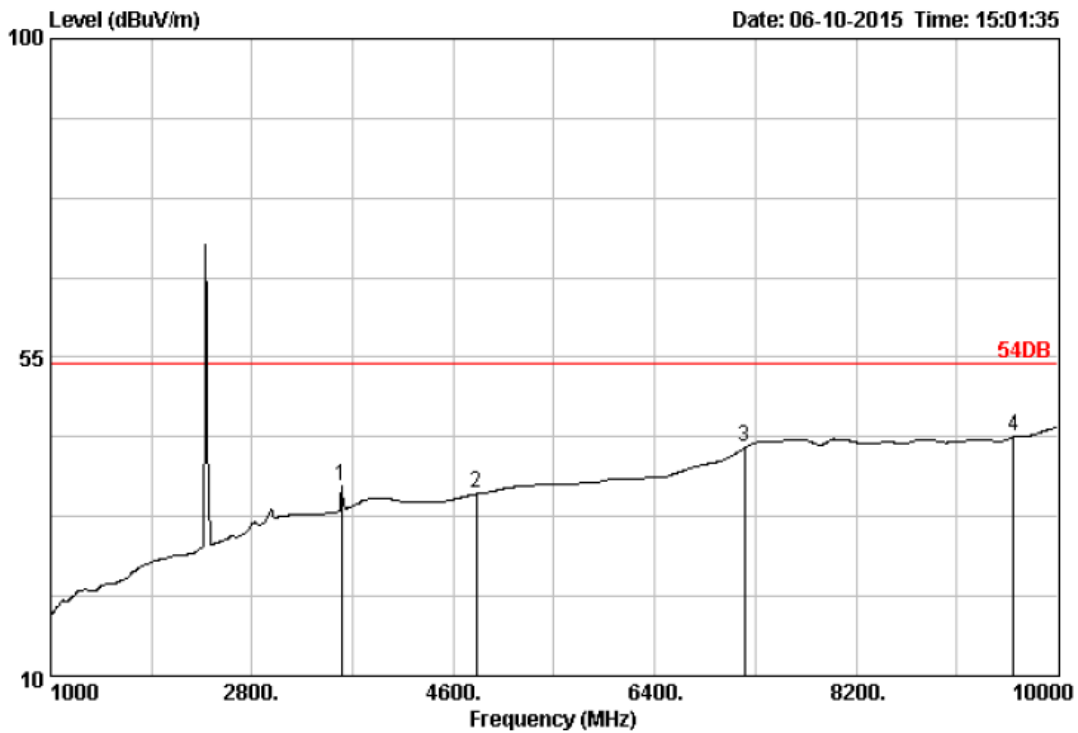


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1449  
 Ant. pol. : HORIZONTAL

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.00	33.48	6.91	34.34	29.64	35.69	54.00	18.31	Average
2	7206.00	36.92	9.18	35.03	31.27	42.34	54.00	11.66	Average
3	9608.00	38.53	10.97	35.99	30.27	43.78	54.00	10.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

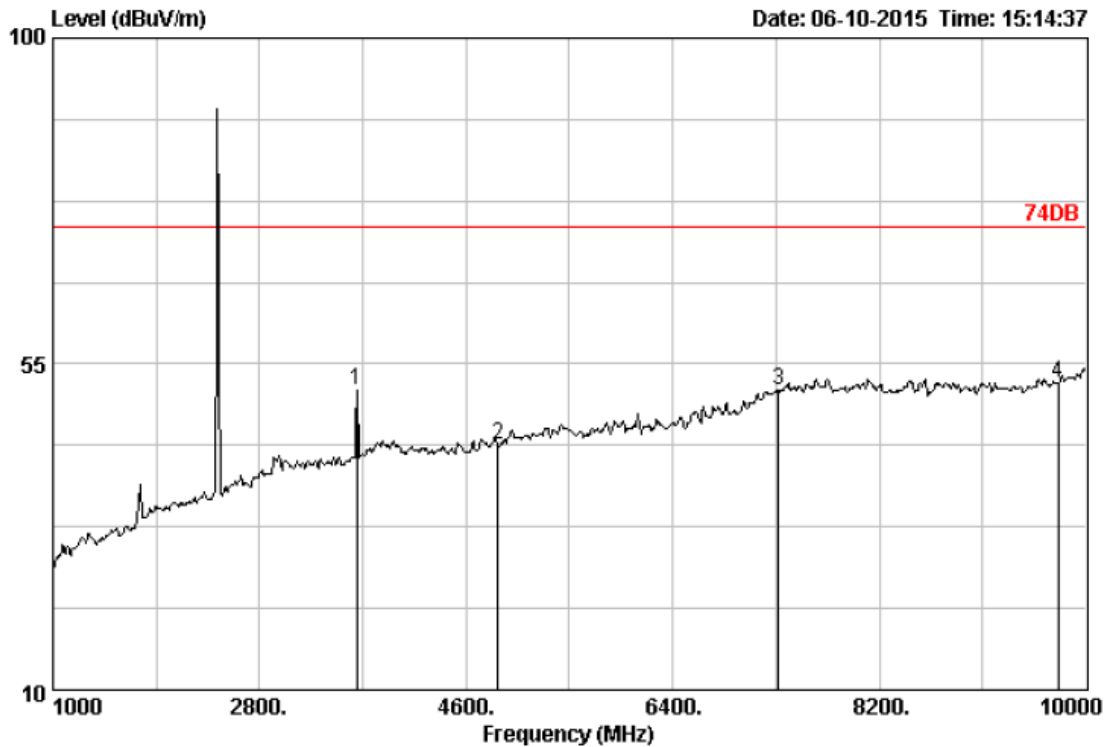


Site no. : 3m Chamber Data no. : 1448  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : VERTICAL  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	3601.00	32.02	5.94	35.08	33.87	54.00	17.25	Average
2	4804.00	33.48	6.91	34.34	29.65	54.00	18.30	Average
3	7206.00	36.92	9.18	35.03	31.27	54.00	11.66	Average
4	9608.00	38.53	10.97	35.99	30.27	54.00	10.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

## Middle Channel (2440 MHz):

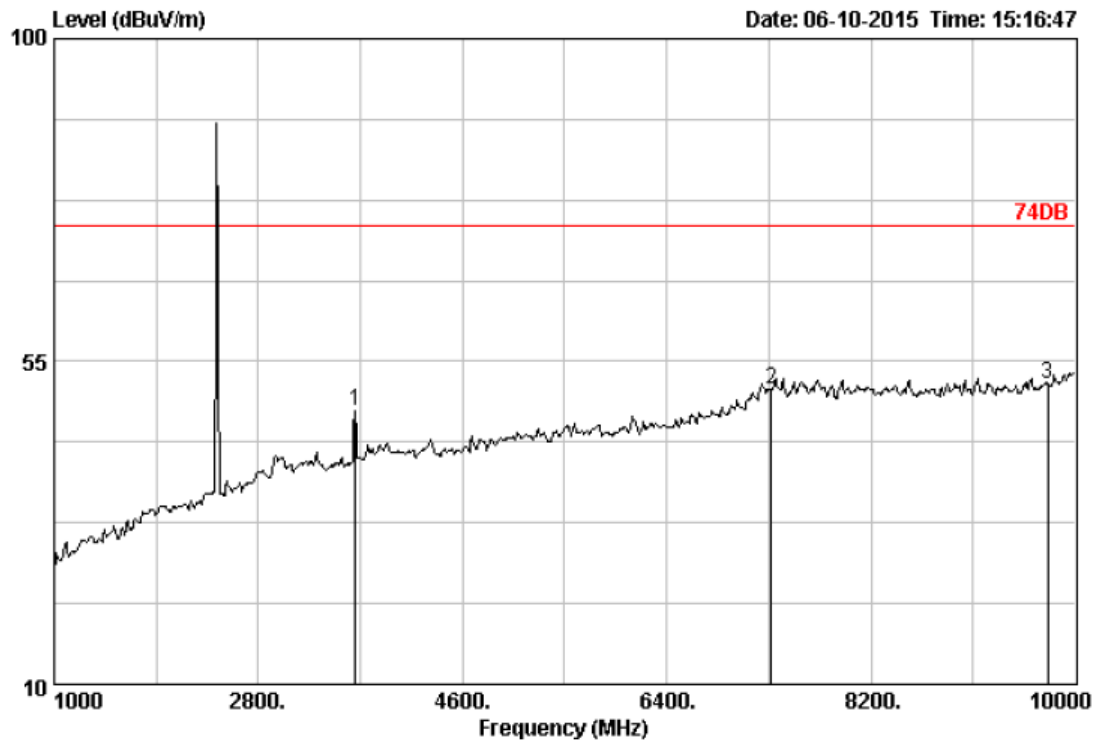


Site no. : 3m Chamber Data no. : 1452  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : HORIZONTAL  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	3646.00	32.33	6.00	35.04	48.03	51.32	74.00	22.68	Peak
2	4880.00	33.60	6.95	34.30	37.63	43.88	74.00	30.12	Peak
3	7320.00	37.46	9.23	35.00	39.64	51.33	74.00	22.67	Peak
4	9760.00	38.65	11.03	35.69	38.36	52.35	74.00	21.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

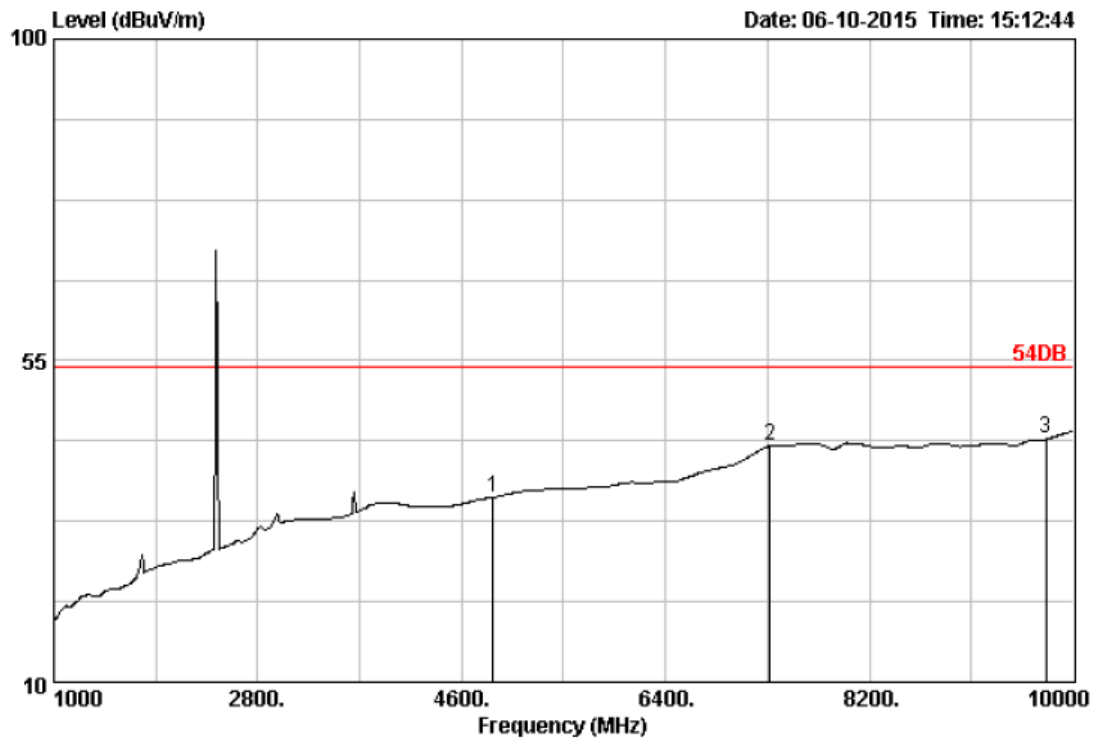




Site no. : 3m Chamber Data no. : 1453  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : VERTICAL  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	3655.00	32.33	6.00	35.04	44.90	48.19	74.00	25.81	Peak
2	7320.00	37.46	9.23	35.00	39.34	51.03	74.00	22.97	Peak
3	9760.00	38.65	11.03	35.69	37.94	51.93	74.00	22.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

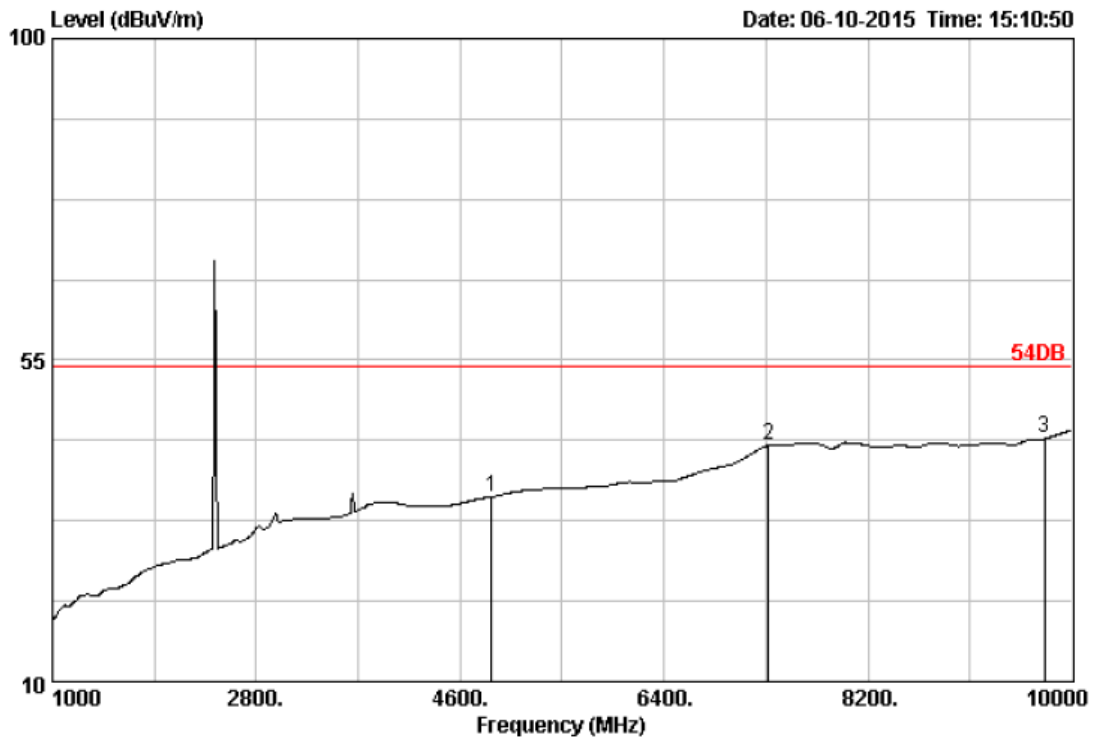


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1451  
 Ant. pol. : HORIZONTAL

	Freq.	Ant.	Cable	Amp		Emission			
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.00	33.60	6.95	34.30	29.62	35.87	54.00	18.13	Average
2	7320.00	37.46	9.23	35.00	31.34	43.03	54.00	10.97	Average
3	9760.00	38.65	11.03	35.69	29.99	43.98	54.00	10.02	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

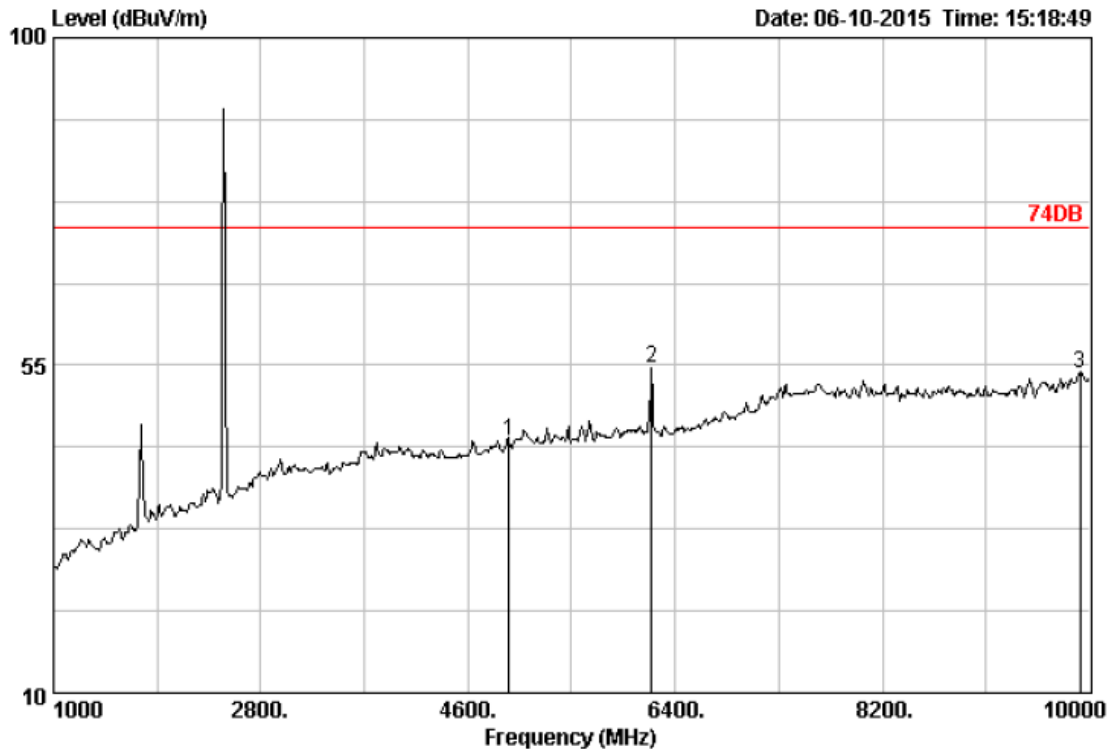


Site no.	: 3m Chamber	Data no.	: 1450
Dis. / Ant.	: 3m DRH-118	Ant. pol.	: VERTICAL
Limit	: 54DB		
Env. / Ins.	: 23°C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	:		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 4880.00	33.60	6.95	34.30	29.62	35.87	54.00	18.13	Average
2 7320.00	37.46	9.23	35.00	31.33	43.02	54.00	10.98	Average
3 9760.00	38.65	11.03	35.69	29.99	43.98	54.00	10.02	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

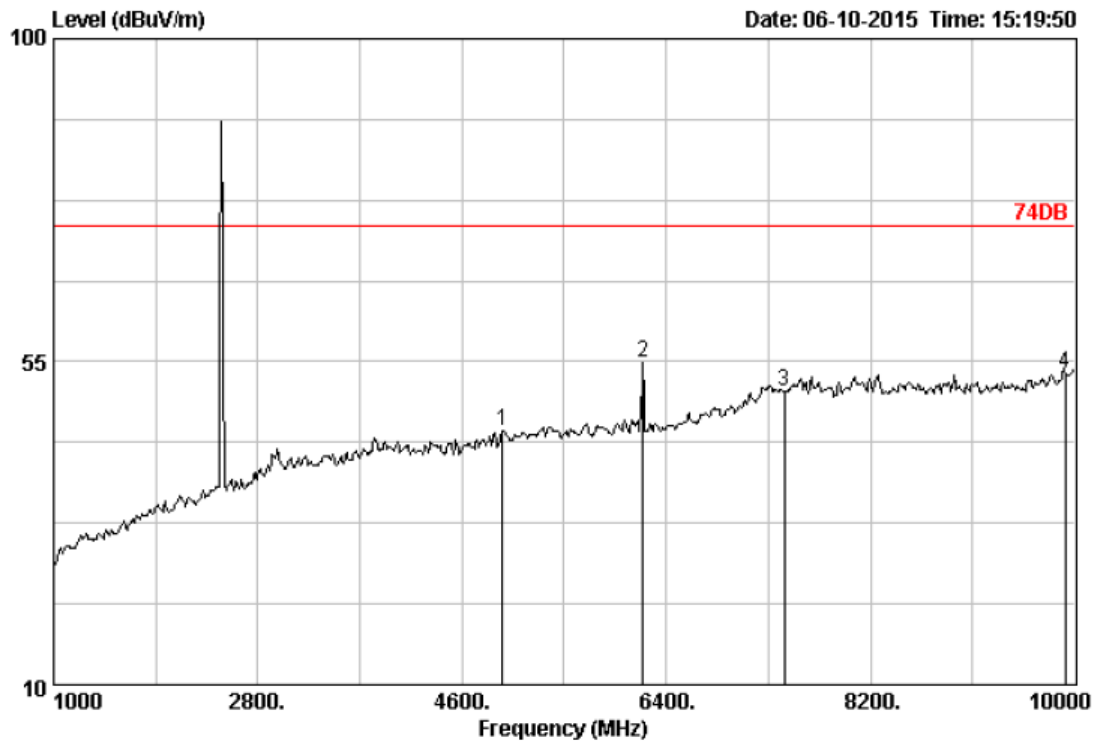
## Top Channel (2480MHz):



Site no. : 3m Chamber Data no. : 1454  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : HORIZONTAL  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4960.00	33.86	7.01	34.25	37.87	44.49	74.00	29.51	Peak
2	6193.00	35.19	7.87	34.68	46.25	54.63	74.00	19.37	Peak
3	9920.00	38.90	11.10	35.37	39.37	54.00	74.00	20.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

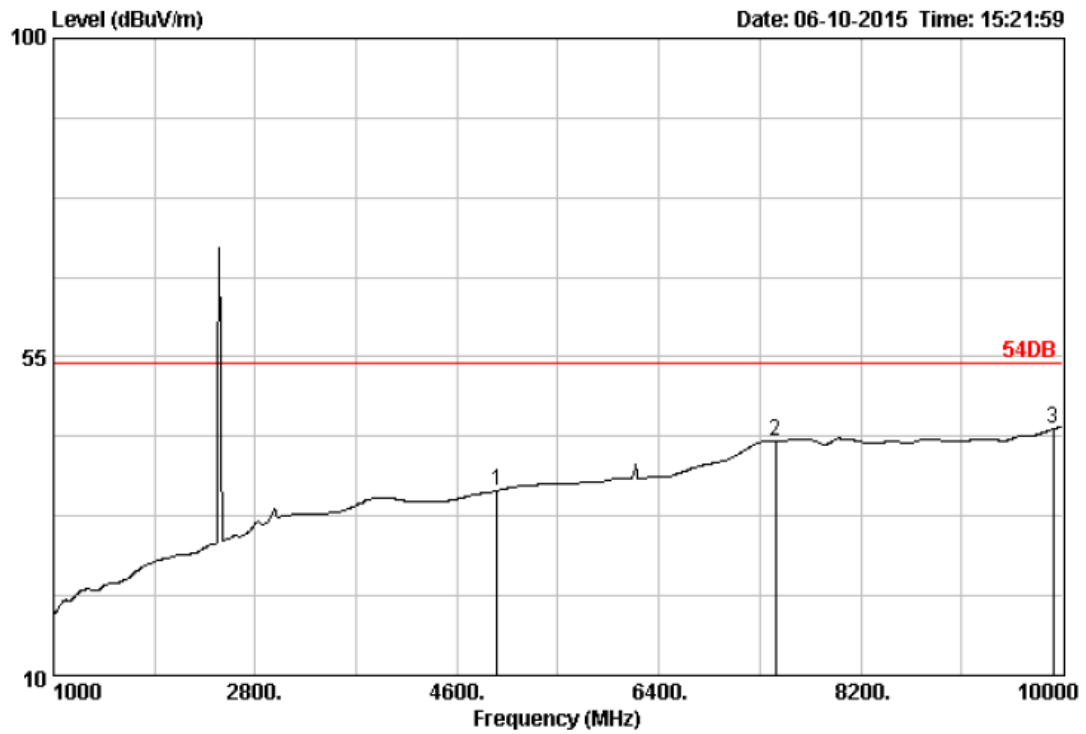


Site no. : 3m Chamber Data no. : 1455  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : VERTICAL  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4960.00	33.86	7.01	34.25	38.70	45.32	74.00	28.68	Peak
2	6193.00	35.19	7.87	34.68	46.38	54.76	74.00	19.24	Peak
3	7440.00	37.64	9.28	34.97	38.97	50.92	74.00	23.08	Peak
4	9920.00	38.90	11.10	35.37	38.70	53.33	74.00	20.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



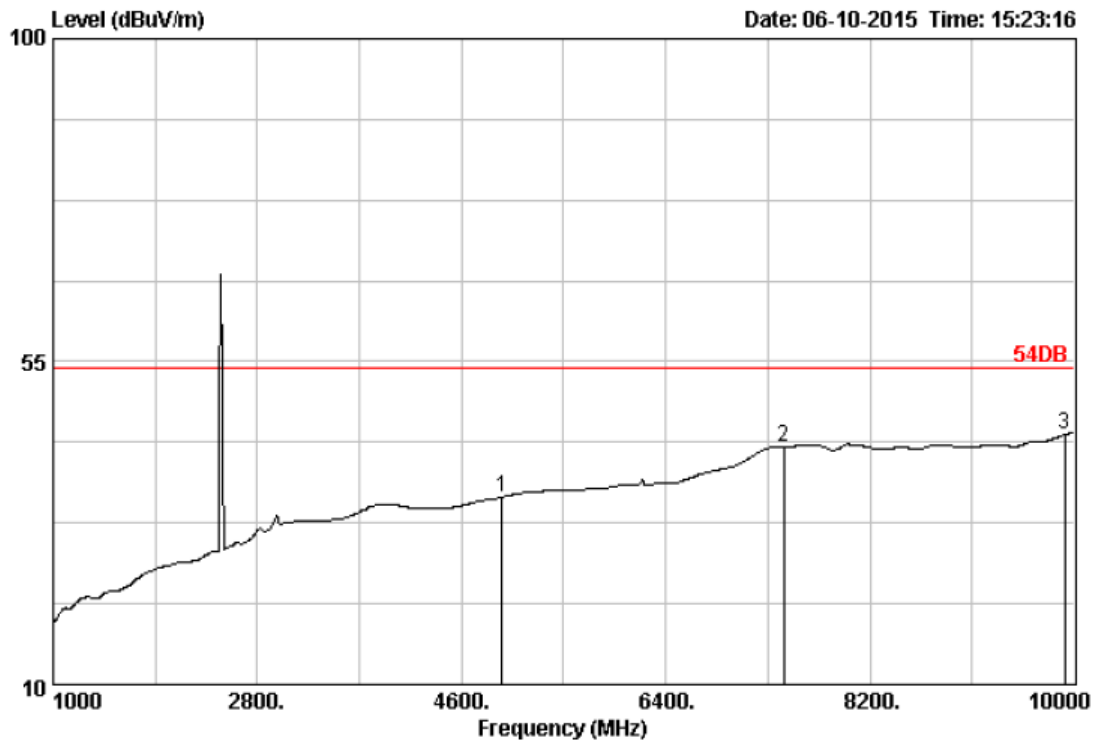


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1456  
 Ant. pol. : HORIZONTAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	33.86	7.01	34.25	29.55	36.17	54.00	17.83	Average
2	7440.00	37.64	9.28	34.97	31.19	43.14	54.00	10.86	Average
3	9920.00	38.90	11.10	35.37	30.18	44.81	54.00	9.19	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 1457  
 Dis. / Ant. : 3m DRH-118 Ant. pol. : VERTICAL  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4960.00	33.86	7.01	34.25	29.53	36.15	54.00	17.85	Average
2	7440.00	37.64	9.28	34.97	31.19	43.14	54.00	10.86	Average
3	9920.00	38.90	11.10	35.37	30.18	44.81	54.00	9.19	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

**Note:** above 10GHz up to 25GHz was verified, and no any emission was found except system noise floor.

## 4.4. Band Edge Measurement

### TEST CONFIGURATION

Same as Section 4.2

### TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1 MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

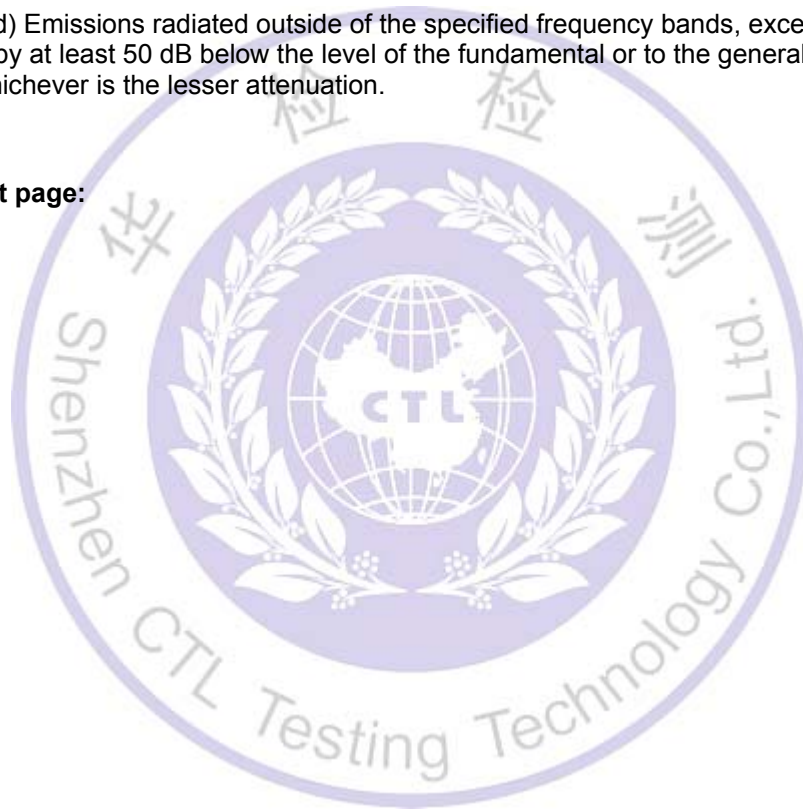
The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1 MHz and VBM to 3 MHz, to measure the conducted peak band edge.

### LIMIT

FCC PART 15.249(d) 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 §15.209, whichever is the lesser attenuation.

### TEST RESULTS

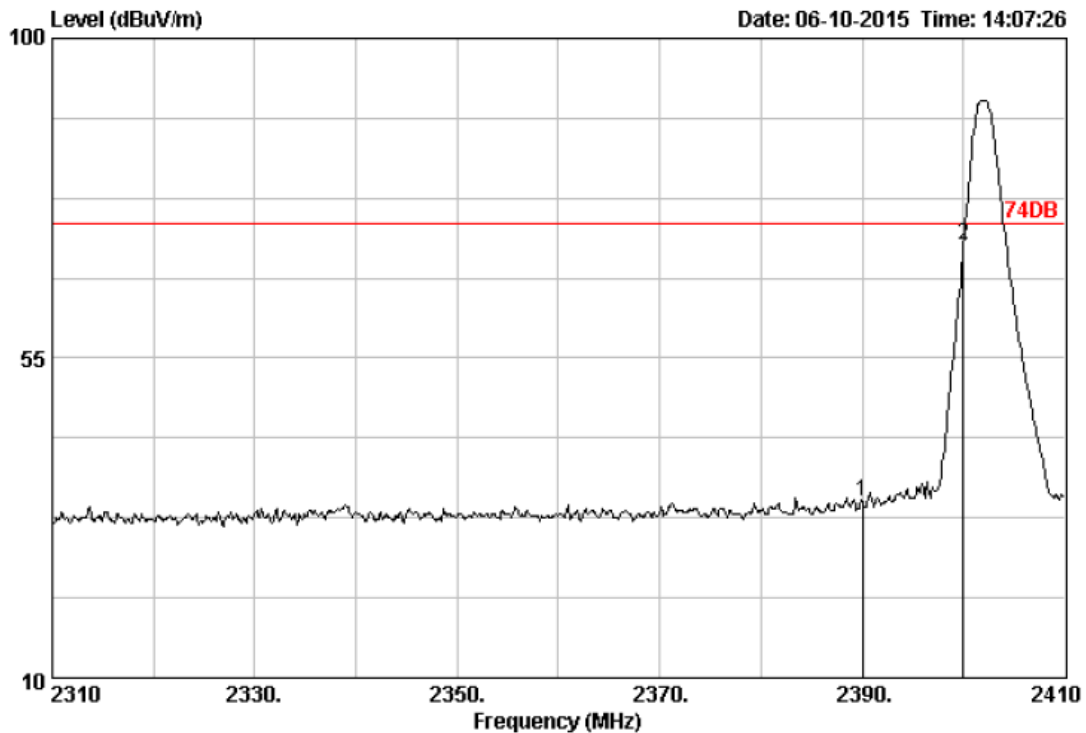
Please see the next page:



**Radiated Test:**

Operation Mode: TX on Bot Channel

Polarity: Hor.

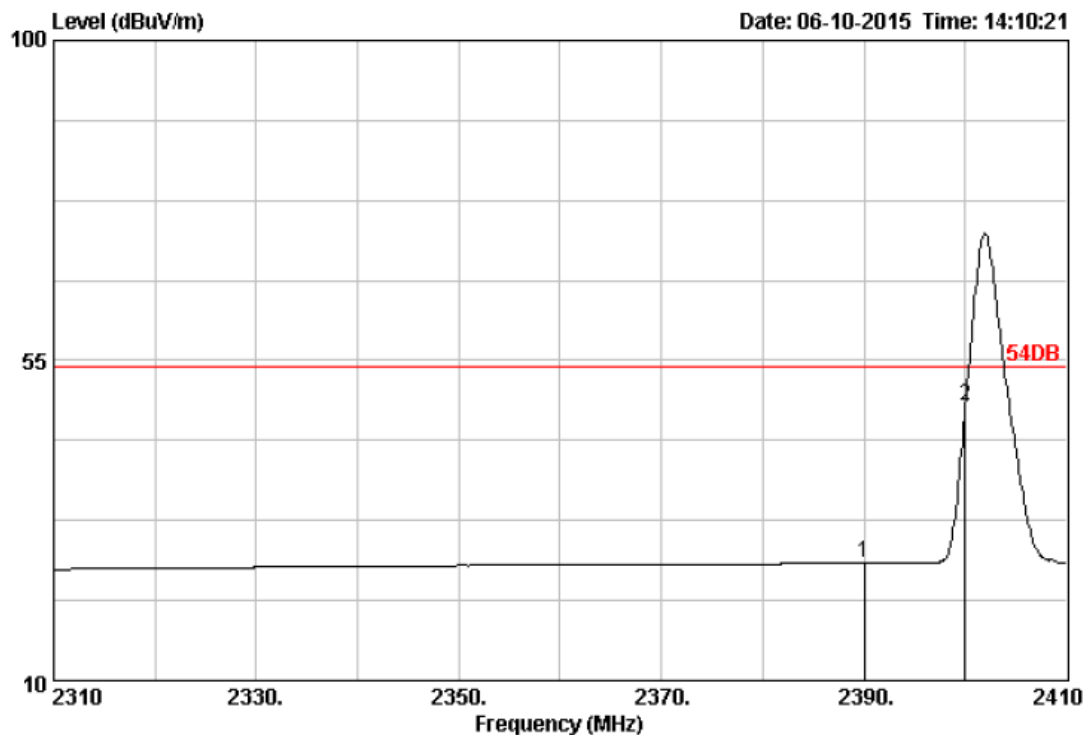


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1439  
 Ant. pol. : HORIZONTAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)		
1	2390.00	28.78	4.61	35.36	36.73	34.76	74.00	39.24	Peak
2	2400.00	28.78	4.61	35.36	72.88	70.91	74.00	3.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

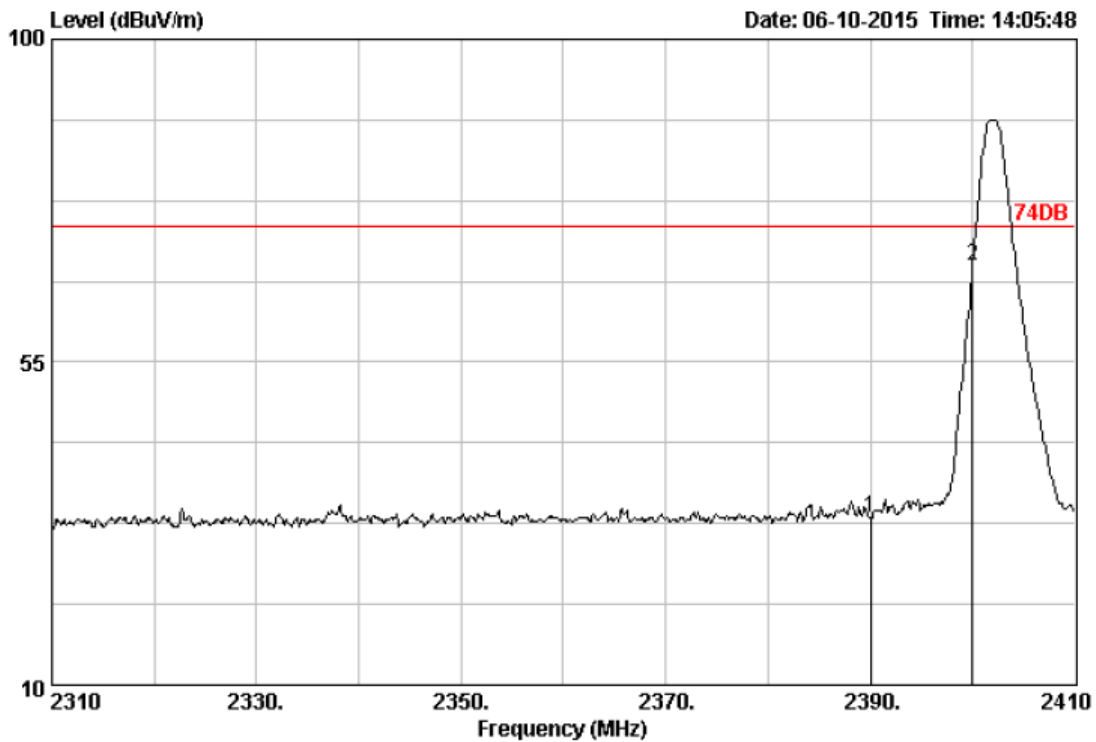
Data no. : 1440  
 Ant. pol. : HORIZONTAL

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	28.78	4.61	35.36	28.44	26.47	54.00	27.53	Average
2	2400.00	28.78	4.61	35.36	50.61	48.64	54.00	5.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Operation Mode: TX on Bot Channel

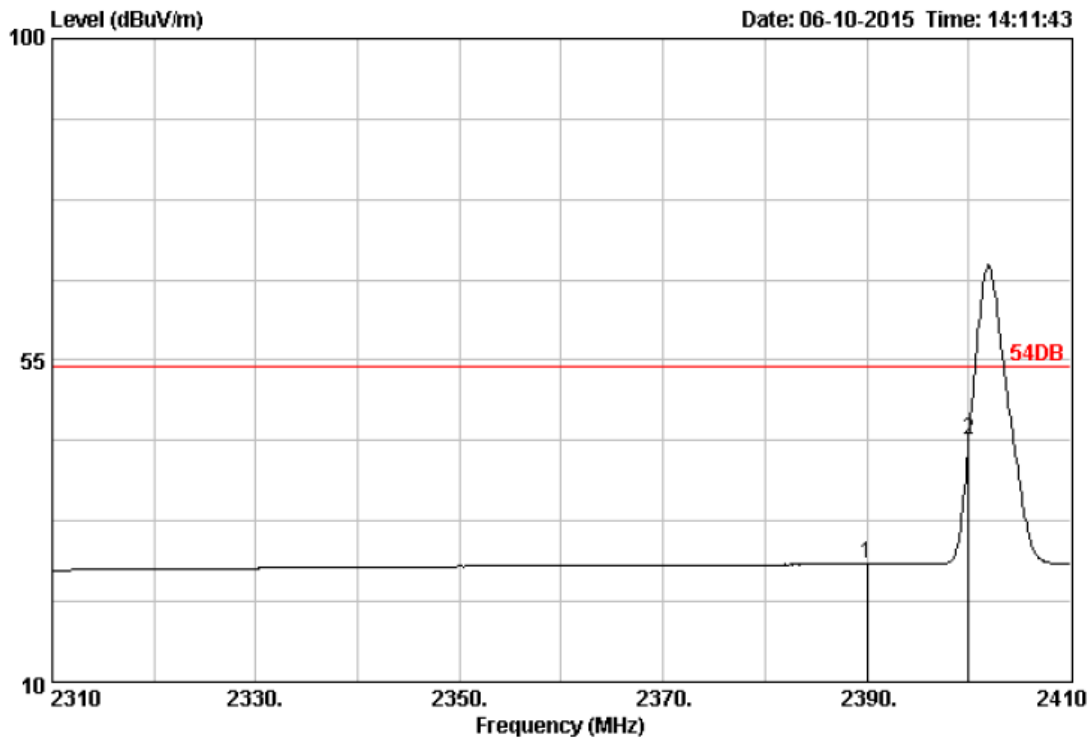
Polarity: Ver.



Site no.	: 3m Chamber	Data no.	: 1438
Dis. / Ant.	: 3m DRH-118	Ant. pol.	: VERTICAL
Limit	: 74DB		
Env. / Ins.	: 23°C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	:		
Test Mode	:		

	Freq. (MHz)	Ant.	Cable	Amp	Emission			Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	2390.00	28.78	4.61	35.36	35.36	33.39	74.00	40.61	Peak
2	2400.00	28.78	4.61	35.36	70.42	68.45	74.00	5.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 1441
Dis. / Ant.	: 3m DRH-118	Ant. pol.	: VERTICAL
Limit	: 54DB		
Env. / Ins.	: 23°C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	:		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2390.00	28.78	4.61	35.36	28.43	26.46	54.00	27.54	Average
2 2400.00	28.78	4.61	35.36	45.90	43.93	54.00	10.07	Average

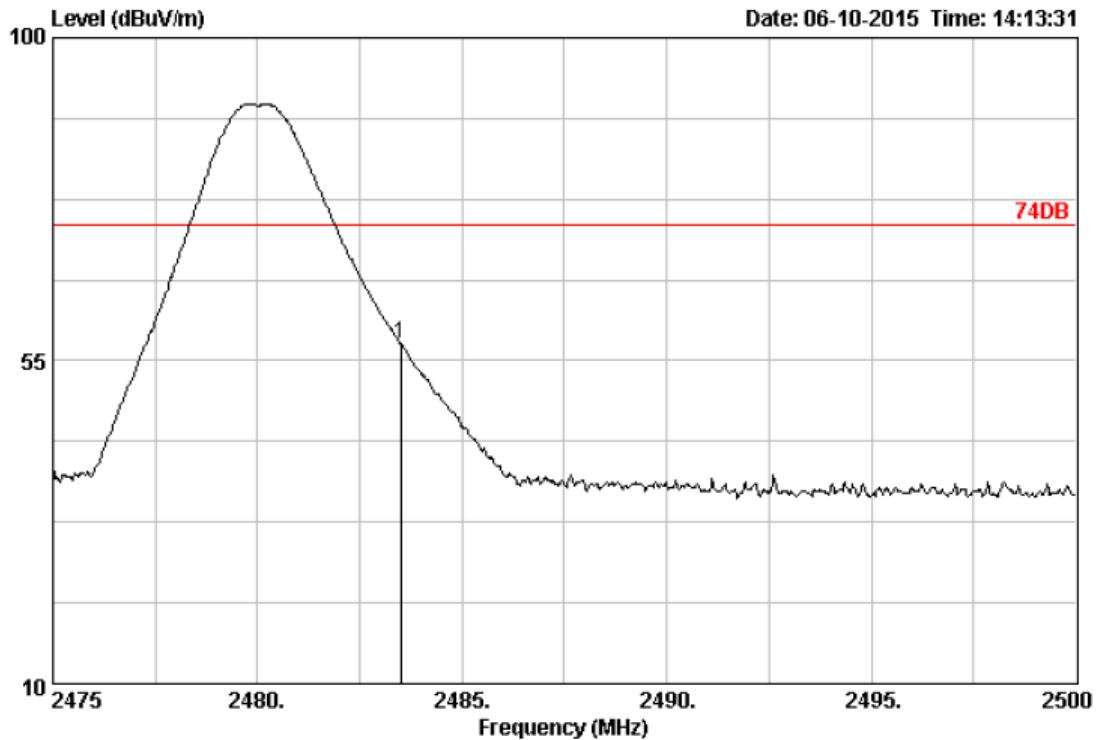
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Note: The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.



Operation Mode: TX on Top Channel

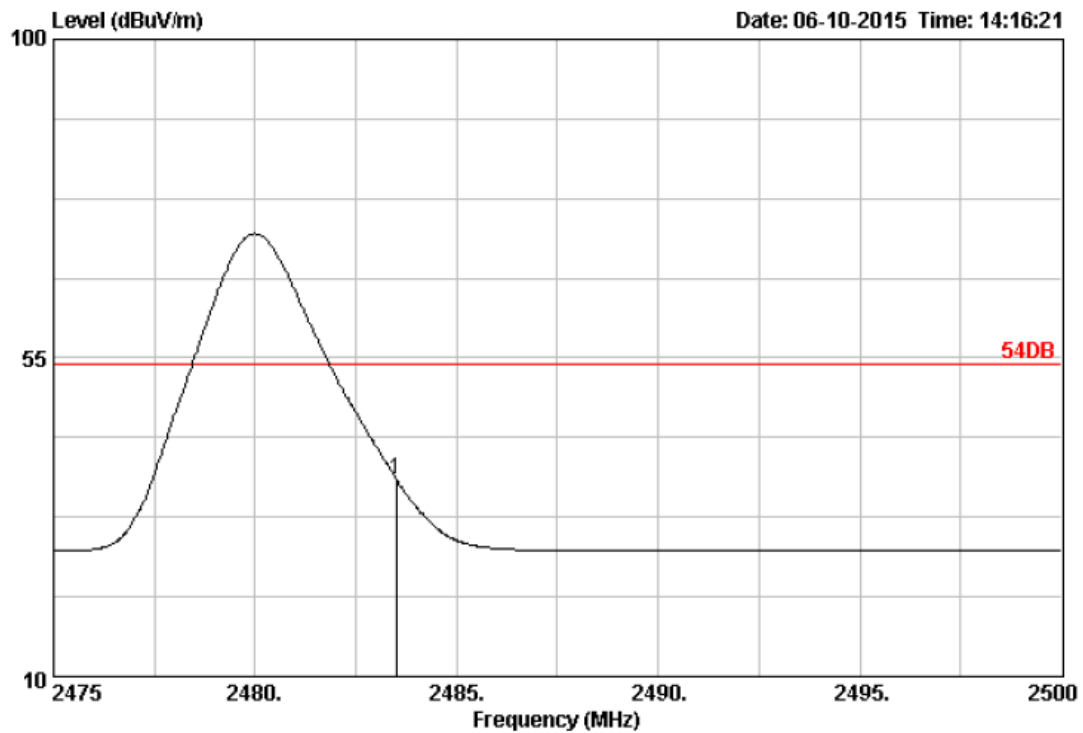
Polarity: Hor.



Site no.	: 3m Chamber	Data no.	: 1442
Dis. / Ant.	: 3m DRH-118	Ant. pol.	: HORIZONTAL
Limit	: 74DB		
Env. / Ins.	: 23°C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	:		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2483.50	28.93	4.70	35.38	59.11	57.36	74.00	16.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 54DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

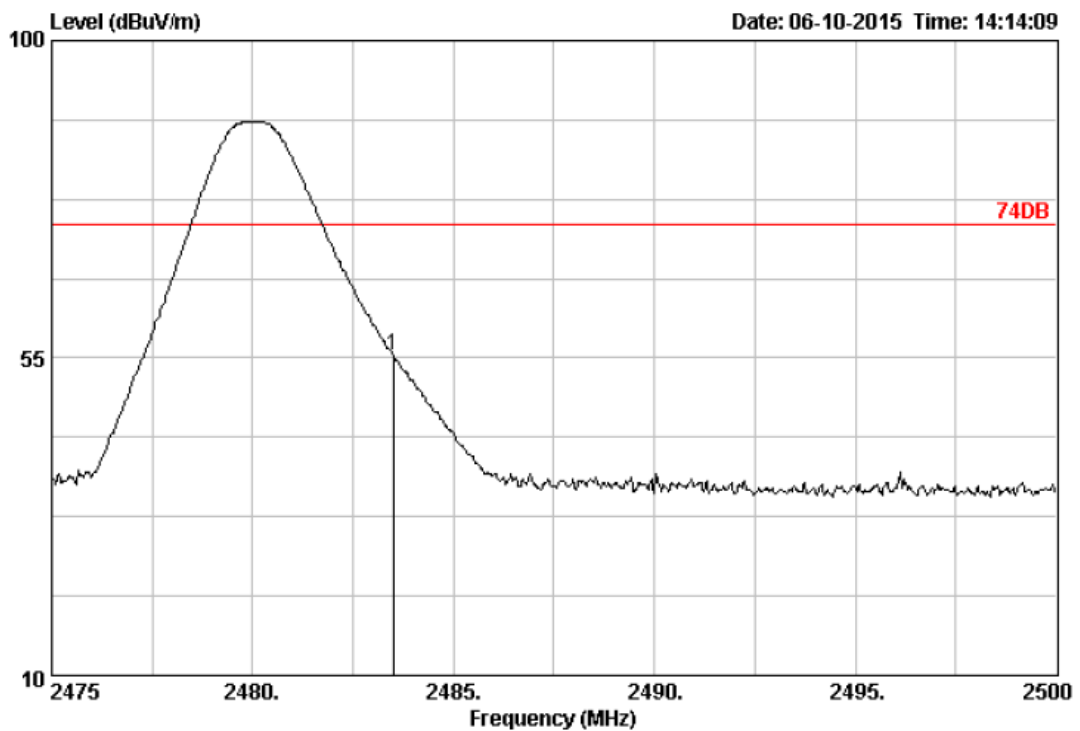
Data no. : 1444  
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2483.50	28.93	4.70	35.38	39.61	37.86	54.00	16.14	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Operation Mode: TX on Top Channel

Polarity: Ver.

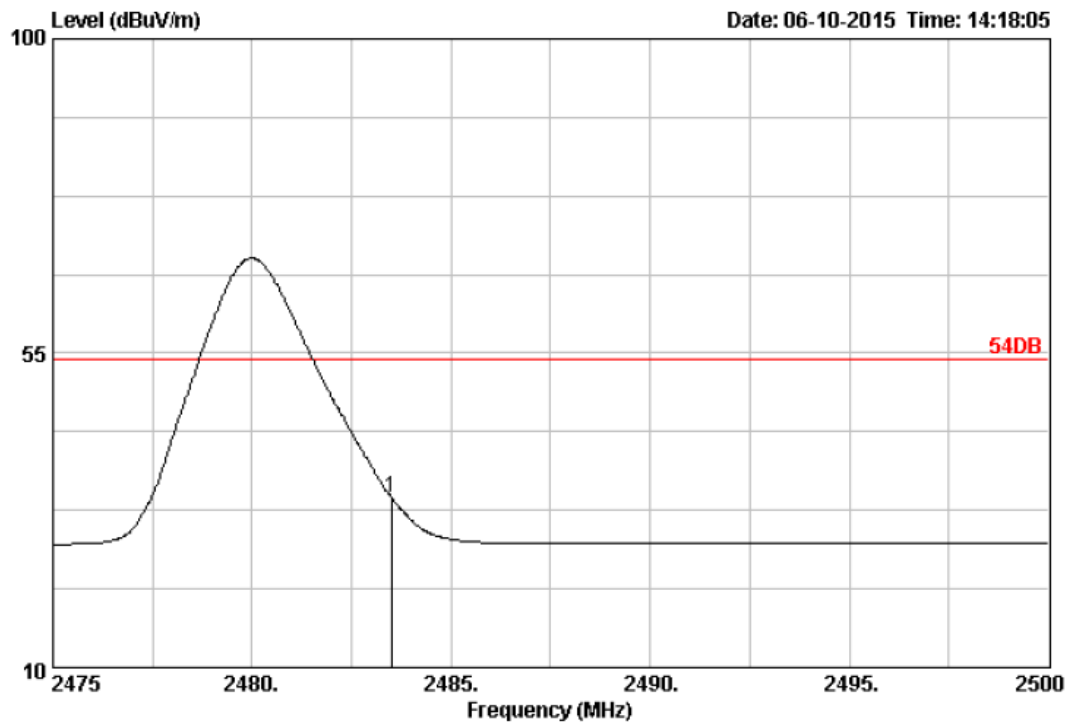


Site no. : 3m Chamber  
 Dis. / Ant. : 3m DRH-118  
 Limit : 74DB  
 Env. / Ins. : 23°C/54%  
 Engineer :  
 EUT :  
 Power :  
 M/N :  
 Test Mode :

Data no. : 1443  
 Ant. pol. : VERTICAL

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2483.50	28.93	4.70	35.38	57.18	55.43	74.00	18.57	
								Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 1445
Dis. / Ant.	: 3m DRH-118	Ant. pol.	: VERTICAL
Limit	: 54DB		
Env. / Ins.	: 23°C/54%		
Engineer	:		
EUT	:		
Power	:		
M/N	:		
Test Mode	:		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2483.50	28.93	4.70	35.38	36.05	34.30	54.00	19.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Note: The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.

## 4.5. Occupied Bandwidth Measurement

### Measurement Procedure

1. Set EUT as normal operation.
2.  $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq RBW$ .
3. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

### Test SET-UP (Block Diagram of Configuration)

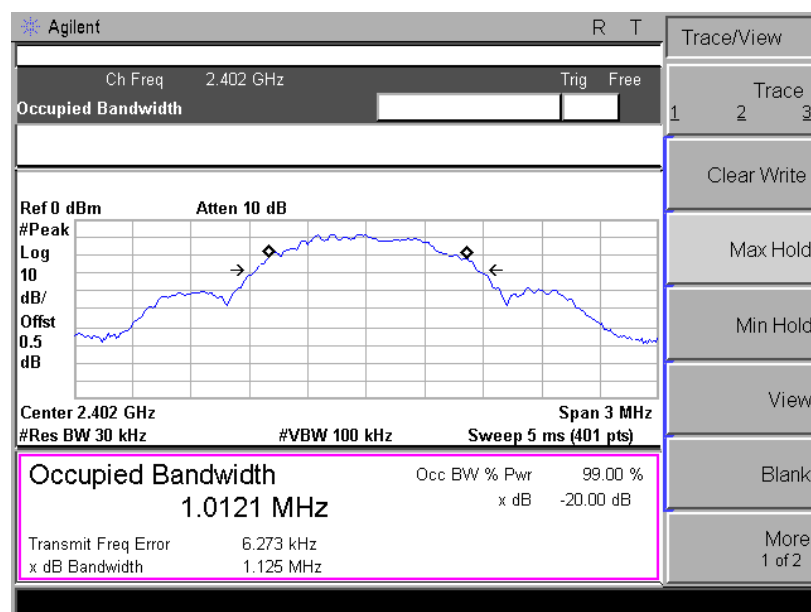
Same as 4.2 Radiated Emission Measurement.

### Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

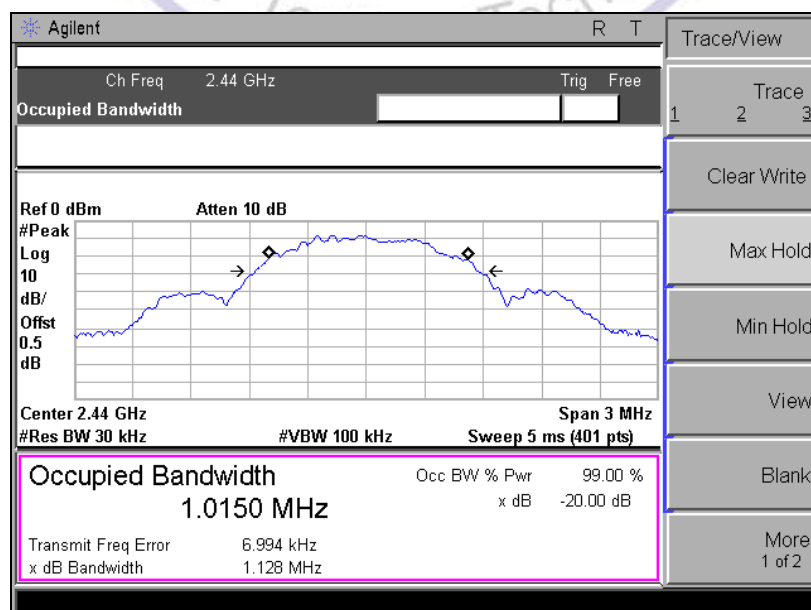
### Measurement Results

#### 2402MHz



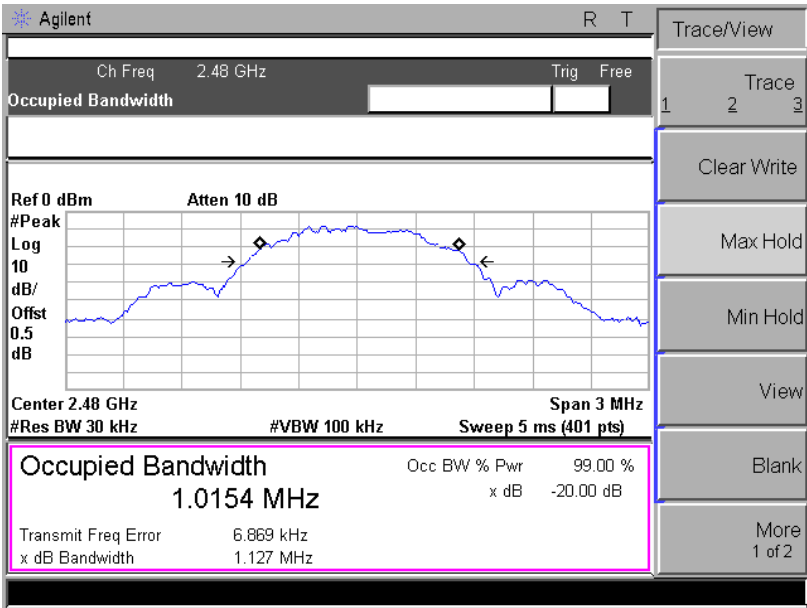
20dB Bandwidth: 1125 KHz

#### 2440MHz



20dB Bandwidth: 1128 KHz

2480MHz



20dB Bandwidth: 1127 KHz



## **5. Antenna Requirement**

### **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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

**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.

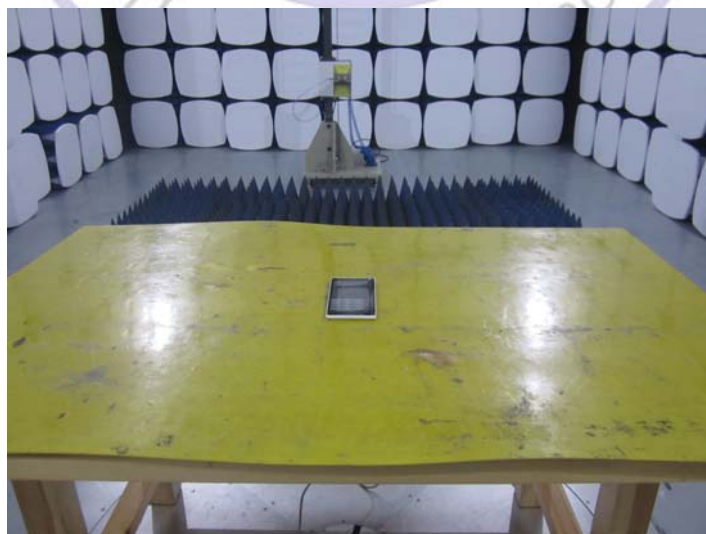
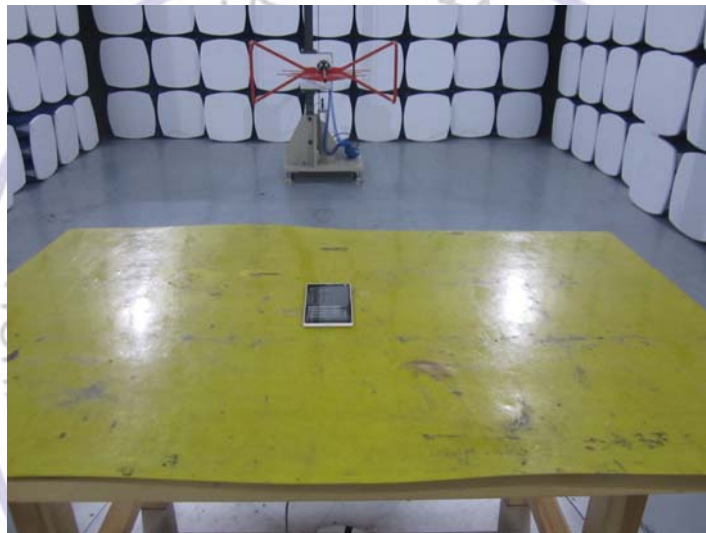
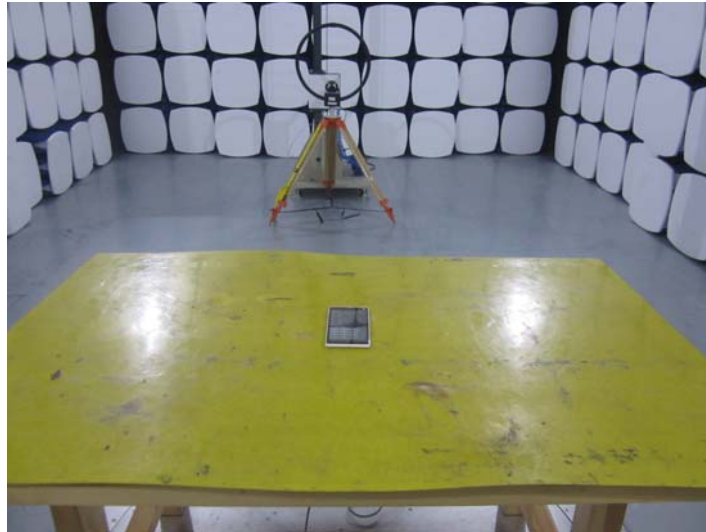
### **Antenna Connected Construction**

The antenna used in this product is an internal Antenna, The directional gains of antenna used for transmitting is 0 dBi.





## 6. Test Setup Photos of the EUT





## **7. External and Internal Photos of the EUT**

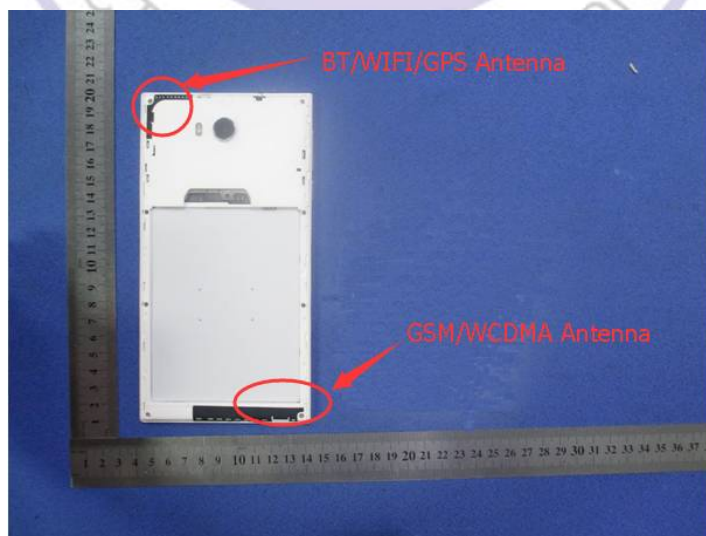
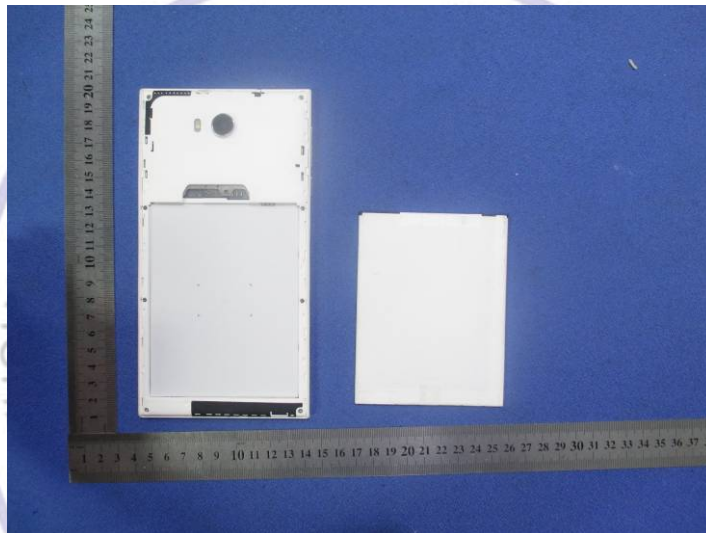
### **External Photos of EUT**

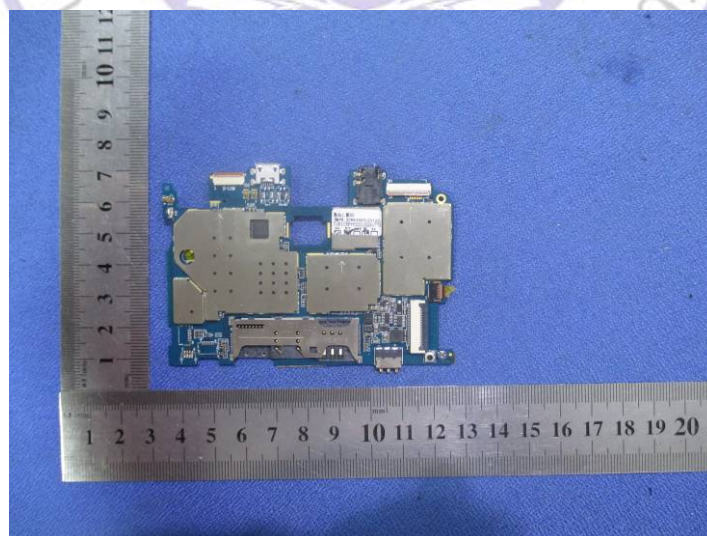
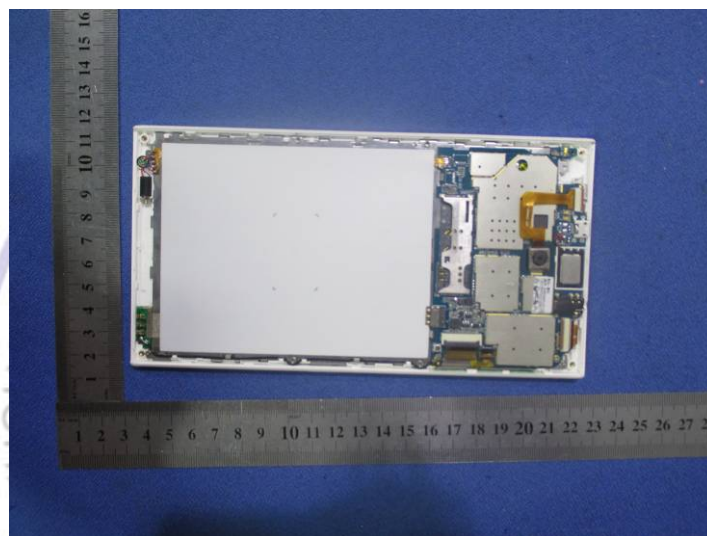
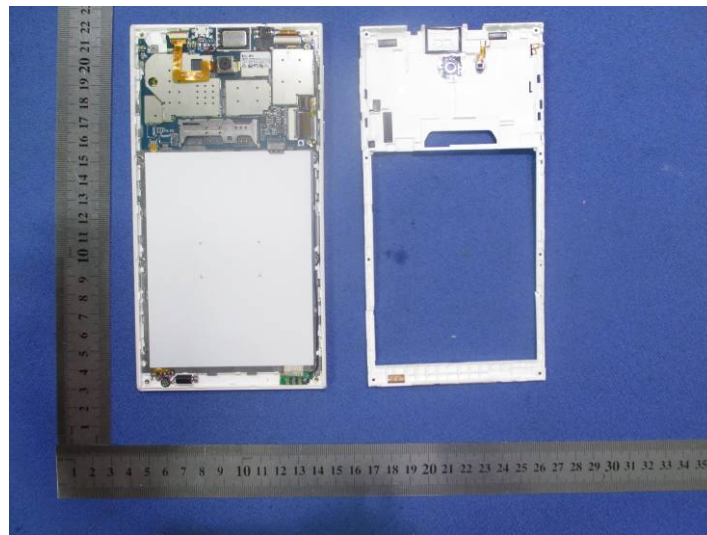




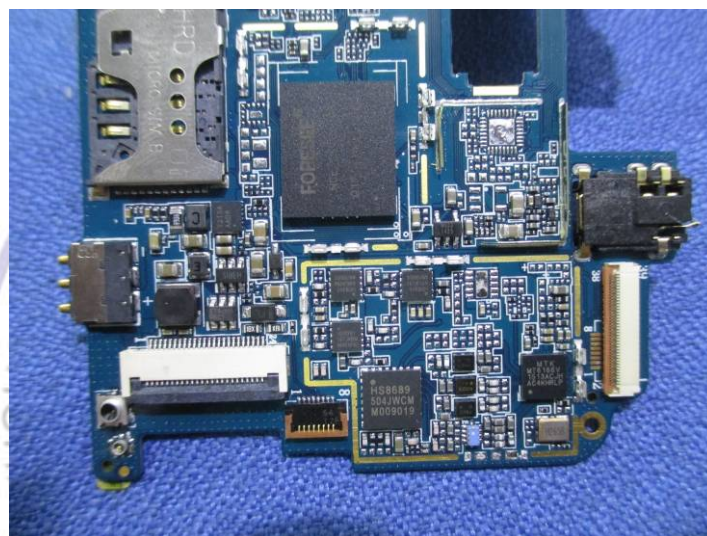
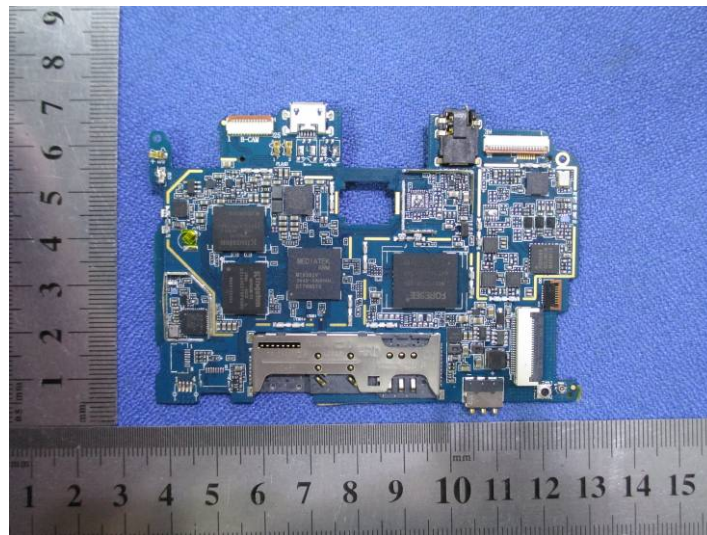


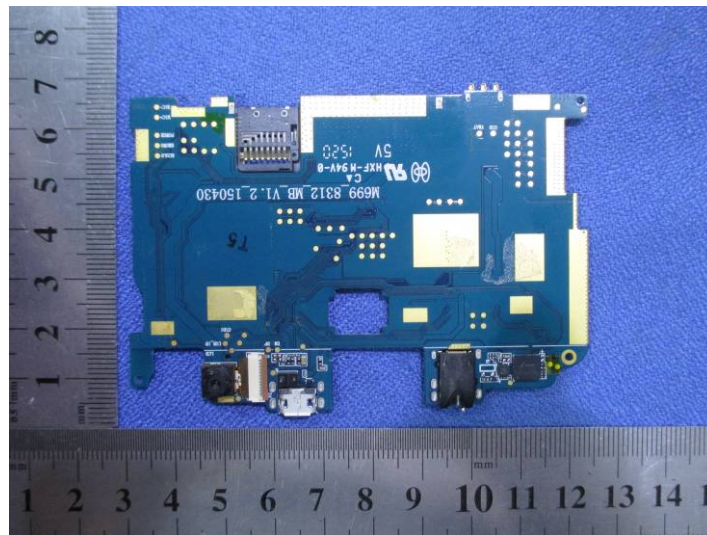


Internal Photos of EUT









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

