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# FCC Test Report

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Report No.: AGC02039150903FE03

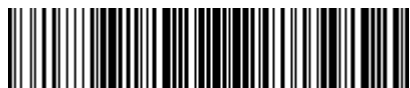
**FCC ID** : WTDS015  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Mono Bluetooth Headset  
**BRAND NAME** : DACOM  
**MODEL NAME** : S015, AngLink S015, K65, U31  
**CLIENT** : Shenzhen Sande Dacom Electronics Co., Ltd  
**DATE OF ISSUE** : Sep.24,2015  
**STANDARD(S)** : FCC Part 15 Rules  
**TEST PROCEDURE(S)**  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

<b>Report Version</b>	<b>Revise Time</b>	<b>Issued Date</b>	<b>Valid Version</b>	<b>Notes</b>
V1.0	/	Sep.24,2015	Valid	Original Report

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**1. VERIFICATION OF CONFORMITY**

<b>Applicant</b>	Shenzhen Sande Dacom Electronics Co., Ltd
<b>Address</b>	Building E, East District No.8, Shangxue Technolog ShenZhen,China
<b>Manufacturer</b>	Shenzhen Sande Dacom Electronics Co., Ltd
<b>Address</b>	Building E, East District No.8, Shangxue Technolog ShenZhen,China
<b>Product Designation</b>	Mono Bluetooth Headset
<b>Brand Name</b>	DACOM
<b>Test Model</b>	S015
<b>Series Model</b>	AngLink S015, K65, U31
<b>Different Description</b>	All the same except for the model name
<b>Date of test</b>	Sep.21,2015 to Sep.22,2015
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Compliance Certification Service(Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Tested By



Time Huang(Huang Nanhui) Sep.24,2015

Reviewed By



Forrest Lei(Lei Yonggang) Sep.24,2015

Approved By



Solger Zhang(Zhang Hongyi)  
Authorized Officer Sep.24,2015

## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	-6.38dBm(Max)
<b>Bluetooth Version</b>	V4.1
<b>Modulation</b>	GFSK, $\pi/4$ -DQPSK, 8DPSK
<b>Number of channels</b>	79 for BR/EDR, 40 for BLE
<b>Hardware Version</b>	V4
<b>Software Version</b>	V1
<b>Antenna Designation</b>	PCB Antenna (Met 15.203 Antenna requirement)
<b>Antenna Gain</b>	0.5dBi
<b>Power Supply</b>	DC 3.7V by battery
Note: The USB port only used for charging and can't be used to transfer data with PC. The BT does not work when charging	

### 2.2. TABLE OF CARRIER FREQUENCIES

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

### 3. 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	$\pm 3.18\text{dB}$
2	All emissions, radiated	$\pm 3.91\text{dB}$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

**Note:**

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used fully-charged battery when tested.

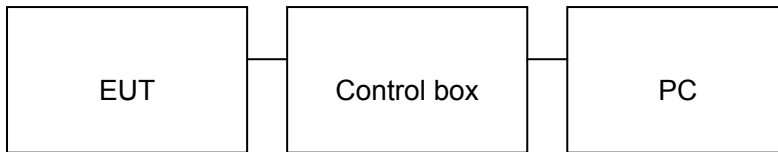
## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Mono Bluetooth Headset	DACOM	S015	EUT
2	PC	Lenovo	SL410K	A.E
3	Control box	N/A	N/A	A.E

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	N/A
N/A	BANDWIDTH	Compliant

Note: N/A means not applicable



**6. TEST FACILITY**

<b>Site</b>	Compliance Certification Service(Shenzhen) Inc.
<b>Location</b>	No.10-1 Mingkeda Logistics Park, No.18 Huanguan South RD. Guan lan Town,Baoan Distr
<b>FCC Registration No.</b>	441872
<b>Description</b>	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009.

**7 ALL TEST EQUIPMENT LIST**

<b>Radiated Emission Test Site 966(2)</b>					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2015	03/01/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2015	03/08/2016
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/17/2016
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2015	03/17/2016
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2015	07/09/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2015	03/01/2016
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2015	03/01/2016
Loop Antenna	COM-POWER	AL-130	121044	09/27/2014	09/26/2015
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

<b>Conducted Emission Test Site</b>					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2015	03/08/2016
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	03/09/2015	03/08/2016
LISN	EMCO	3825/2	8901-1459	03/09/2015	03/08/2016
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2015	03/03/2016
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

## 8. RADIATED EMISSION

### 8.1 TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m  
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 8.2. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1.5MHz VBW and RBW for peak reading. Then 1.5MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

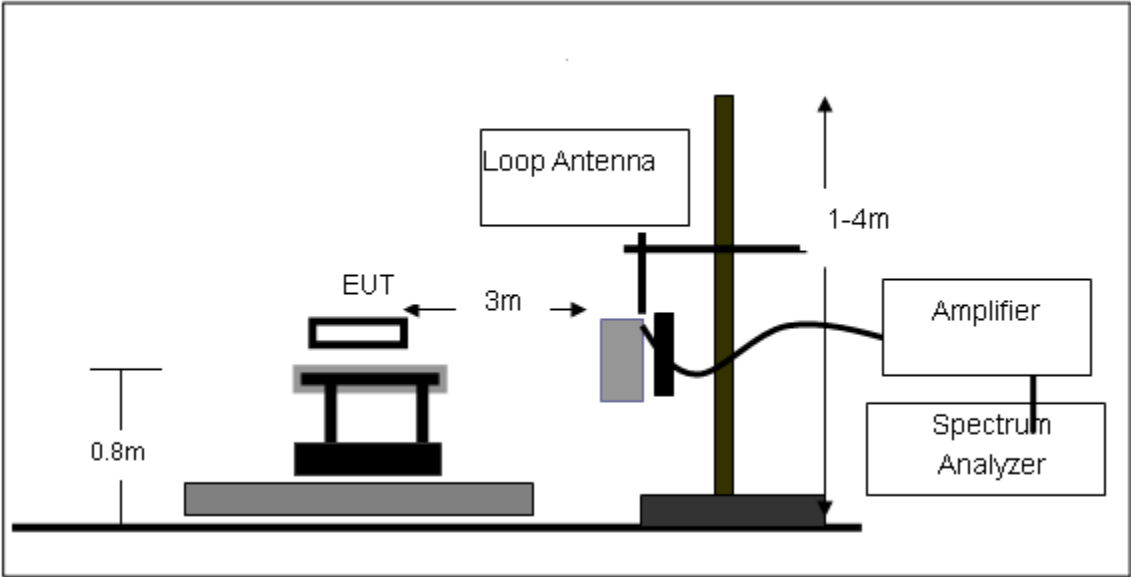
The following table is the setting of spectrum analyzer and receiver.

<b>Spectrum Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1.5MHz/1.5MHz for Peak, 1.5MHz/10Hz for Average

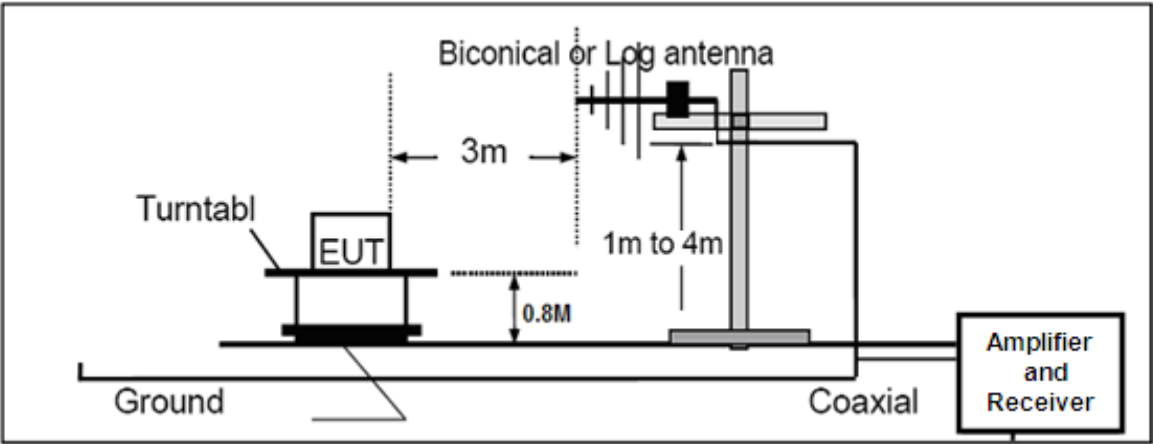
<b>Receiver Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

**8.3. TEST SETUP**

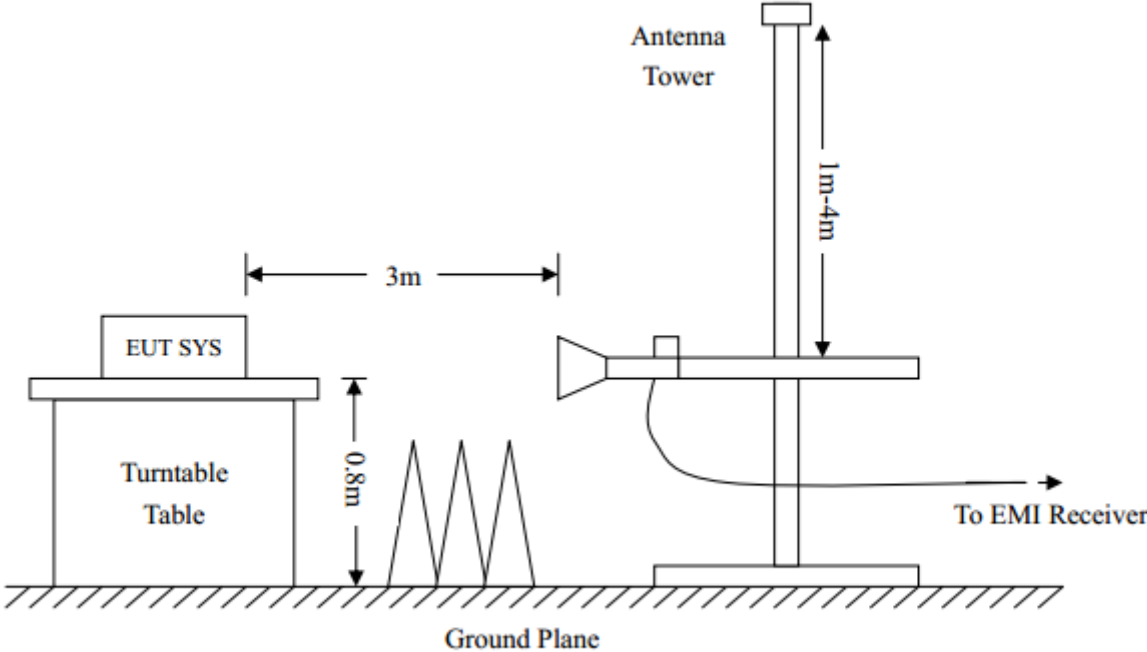
**Radiated Emission Test-Setup Frequency Below 30MHz**



**RADIATED EMISSION TEST SETUP 30MHz-1000MHz**



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



**8.4. TEST RESULT**

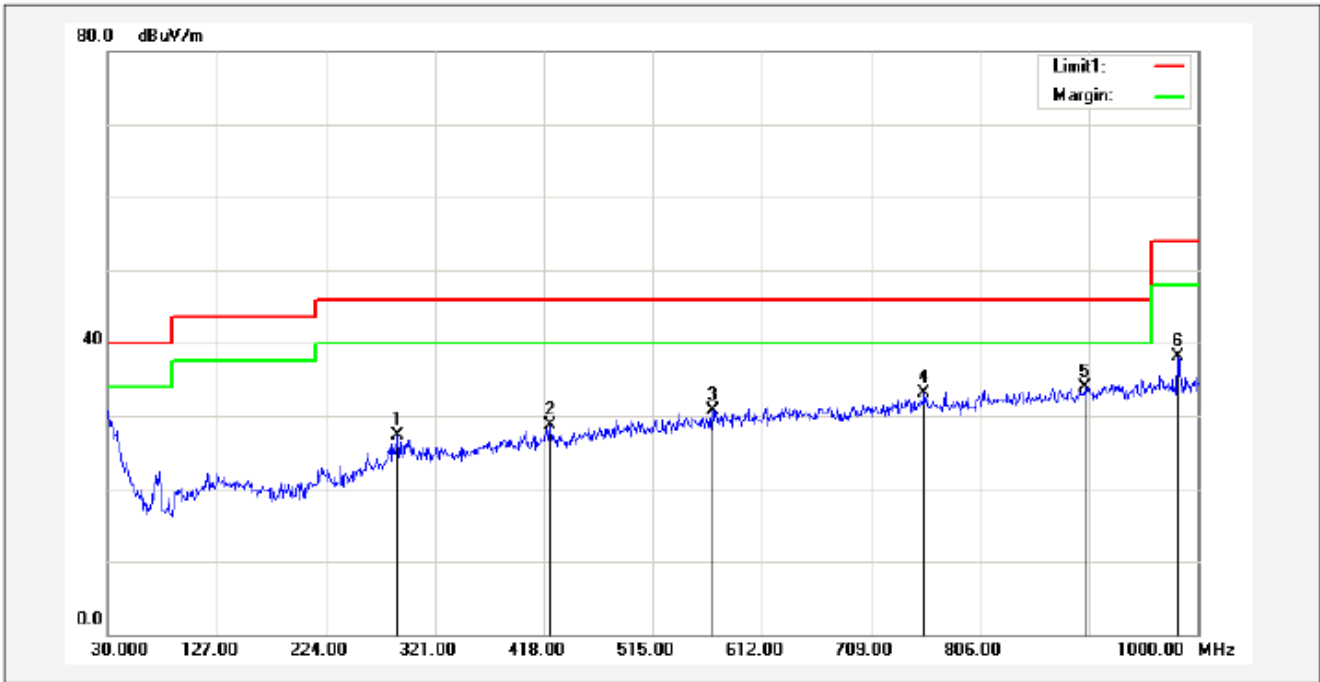
**(Worst modulation:GFSK)  
 FOR BR/EDR**

**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

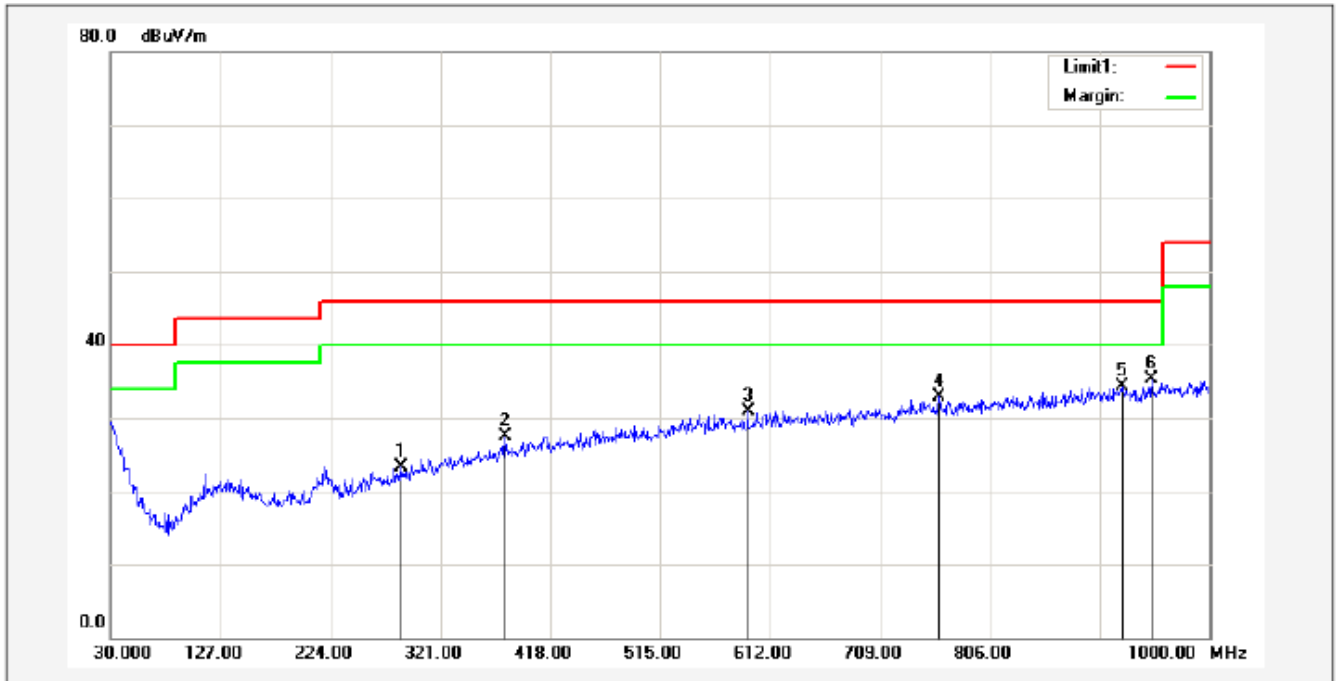
**RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL**



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	288.0200	47.66	-20.45	27.21	46.00	-18.79			peak
2	423.8200	44.12	-15.48	28.64	46.00	-17.36			peak
3	568.3500	43.75	-13.06	30.69	46.00	-15.31			peak
4	756.5300	44.13	-11.09	33.04	46.00	-12.96			peak
5*	899.1200	43.77	-9.84	33.93	46.00	-12.07			peak
6	982.5400	47.35	-9.23	38.12	54.00	-15.88			peak

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	287.0500	43.83	-20.45	23.38	46.00	-22.62			peak
2	378.2300	44.10	-16.59	27.51	46.00	-18.49			peak
3	592.6000	43.90	-13.00	30.90	46.00	-15.10			peak
4	761.3800	43.91	-11.04	32.87	46.00	-13.13			peak
5	923.3700	43.79	-9.44	34.35	46.00	-11.65			peak
6*	948.5900	44.62	-9.38	35.24	46.00	-10.76			peak

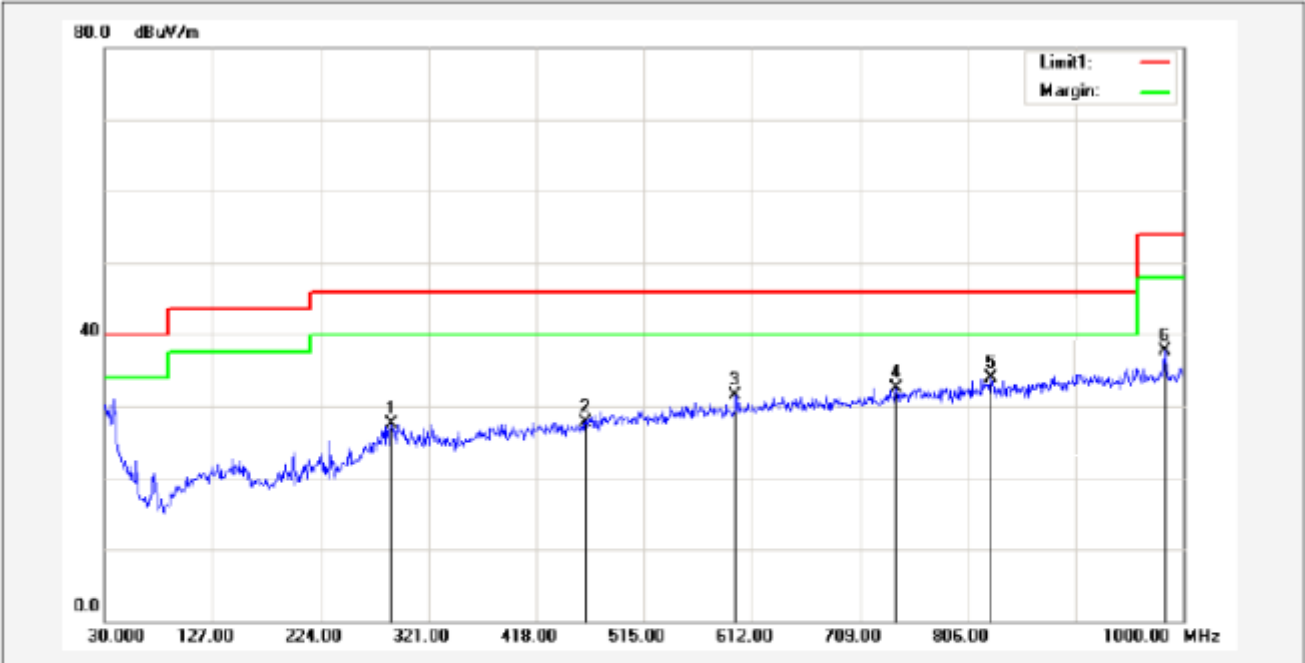
**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



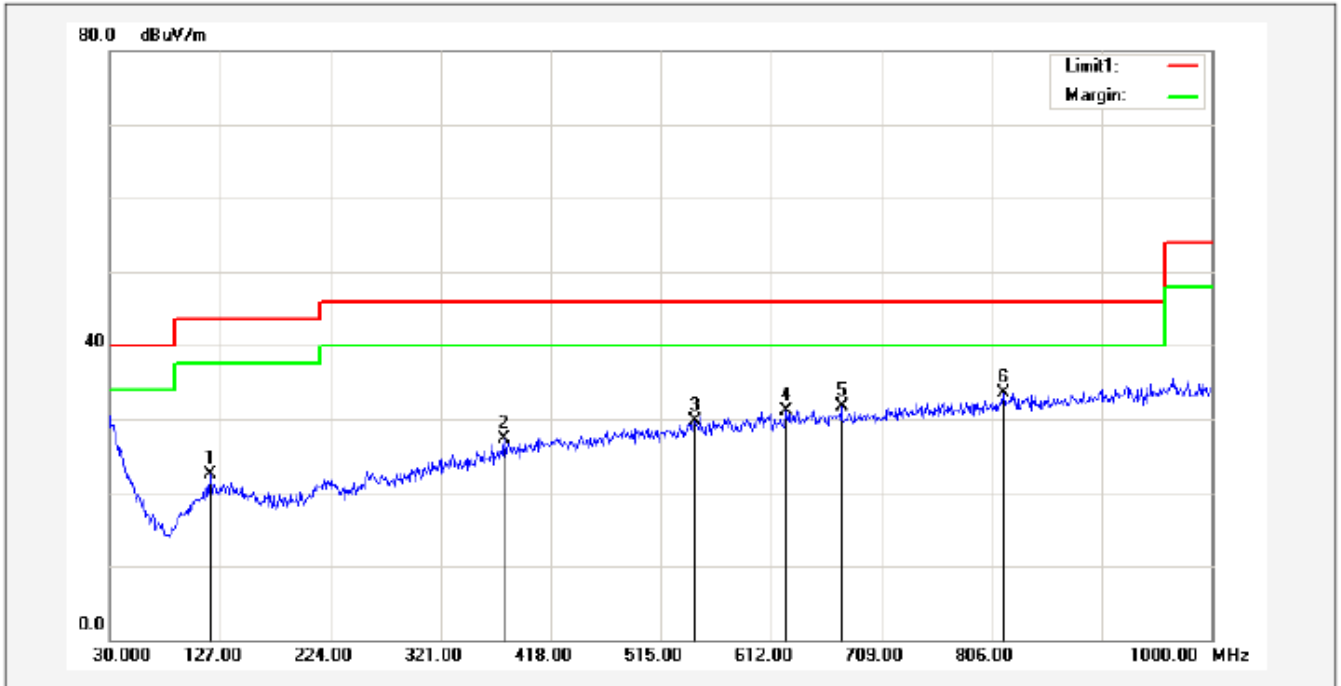
RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	288.0200	48.02	-20.45	27.57	46.00	-18.43			peak
2	462.6200	42.79	-15.06	27.73	46.00	-18.27			peak
3	597.4500	44.44	-12.91	31.53	46.00	-14.47			peak
4	741.9800	43.79	-11.32	32.47	46.00	-13.53			peak
5*	827.3400	44.47	-10.53	33.94	46.00	-12.06			peak
6	983.5100	46.94	-9.24	37.70	54.00	-16.30			peak

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	118.2700	43.73	-21.26	22.47	43.50	-21.03			peak
2	377.2600	43.95	-16.67	27.28	46.00	-18.72			peak
3	545.0700	42.80	-13.19	29.61	46.00	-16.39			peak
4	625.5800	43.85	-12.69	31.16	46.00	-14.84			peak
5	674.0800	43.99	-12.25	31.74	46.00	-14.26			peak
6*	816.6700	44.09	-10.52	33.57	46.00	-12.43			peak

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

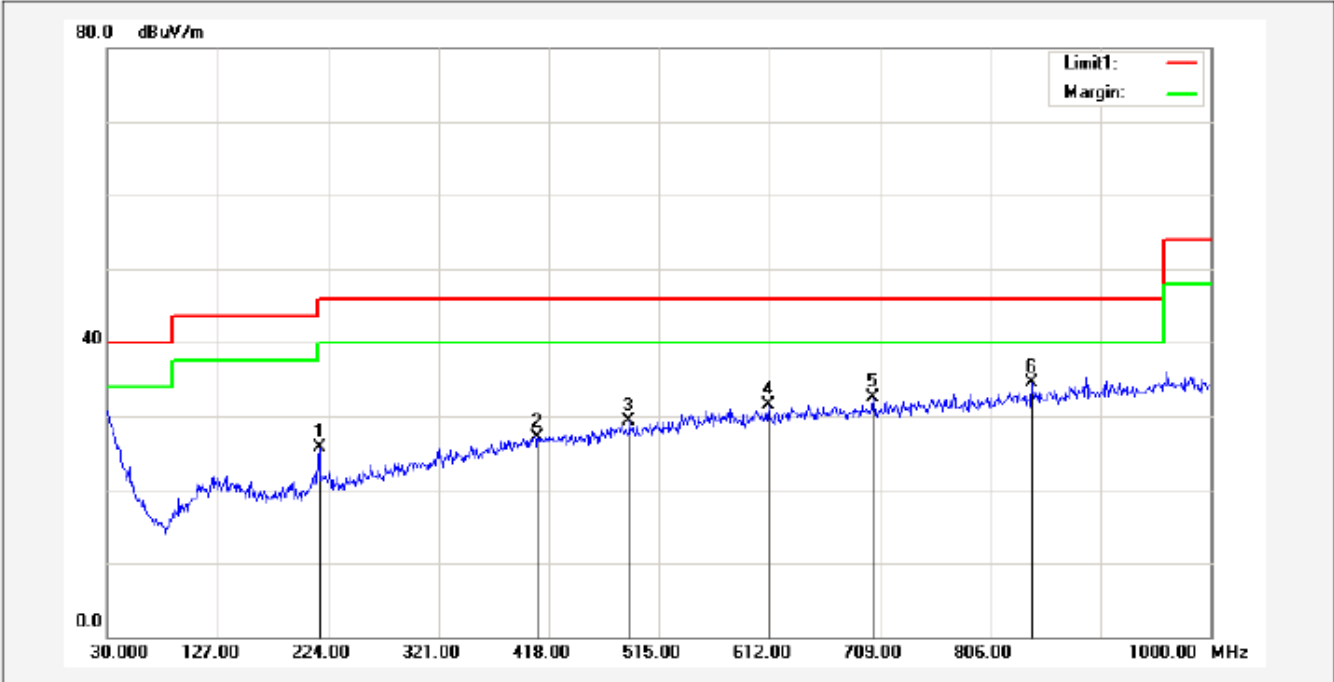
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	288.0200	47.77	-20.45	27.32	46.00	-18.68			peak
2	314.2100	47.21	-19.07	28.14	46.00	-17.86			peak
3	499.4800	43.98	-14.36	29.62	46.00	-16.38			peak
4	638.1900	44.74	-12.48	32.26	46.00	-13.74			peak
5*	729.3700	44.99	-11.62	33.37	46.00	-12.63			peak
6	983.5100	46.77	-9.24	37.53	54.00	-16.47			peak

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	216.2400	46.50	-20.79	25.71	46.00	-20.29			peak
2	408.3000	42.88	-15.69	27.19	46.00	-18.81			peak
3	488.8100	43.63	-14.36	29.27	46.00	-16.73			peak
4	611.0300	44.07	-12.64	31.43	46.00	-14.57			peak
5	703.1800	44.39	-11.93	32.46	46.00	-13.54			peak
6*	842.8600	45.16	-10.73	34.43	46.00	-11.57			peak

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

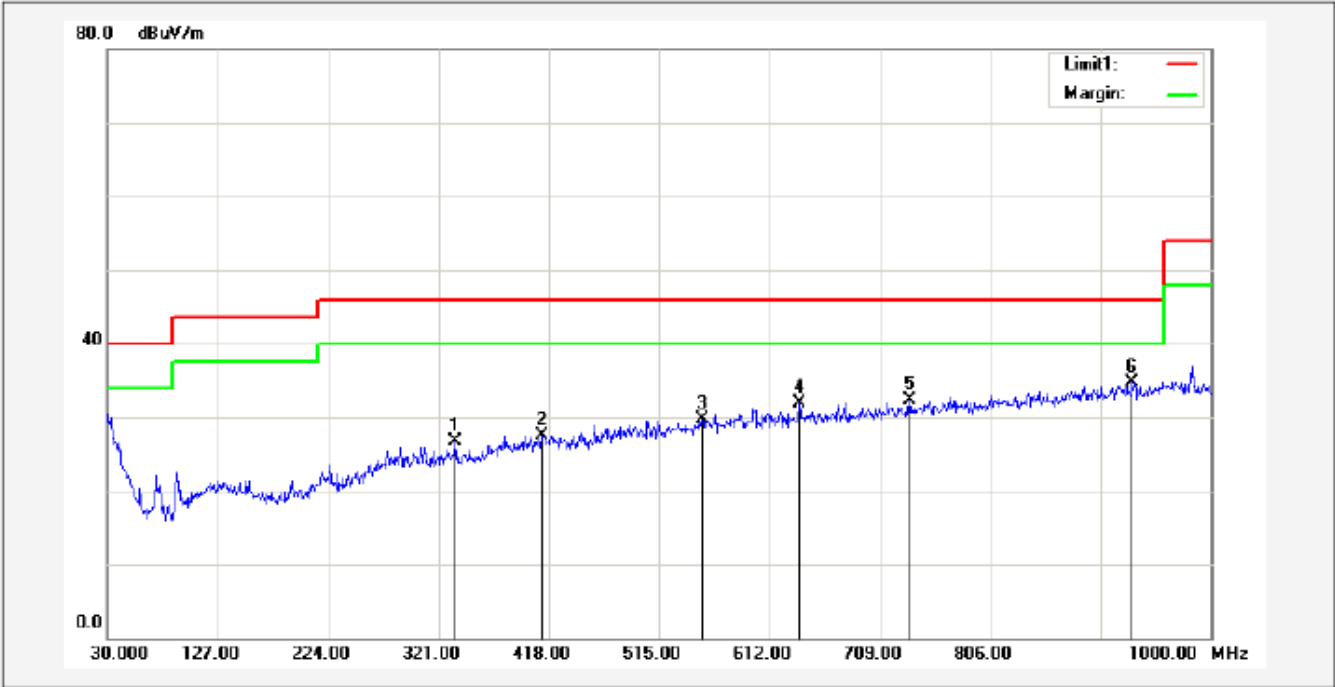
FOR BLE

**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

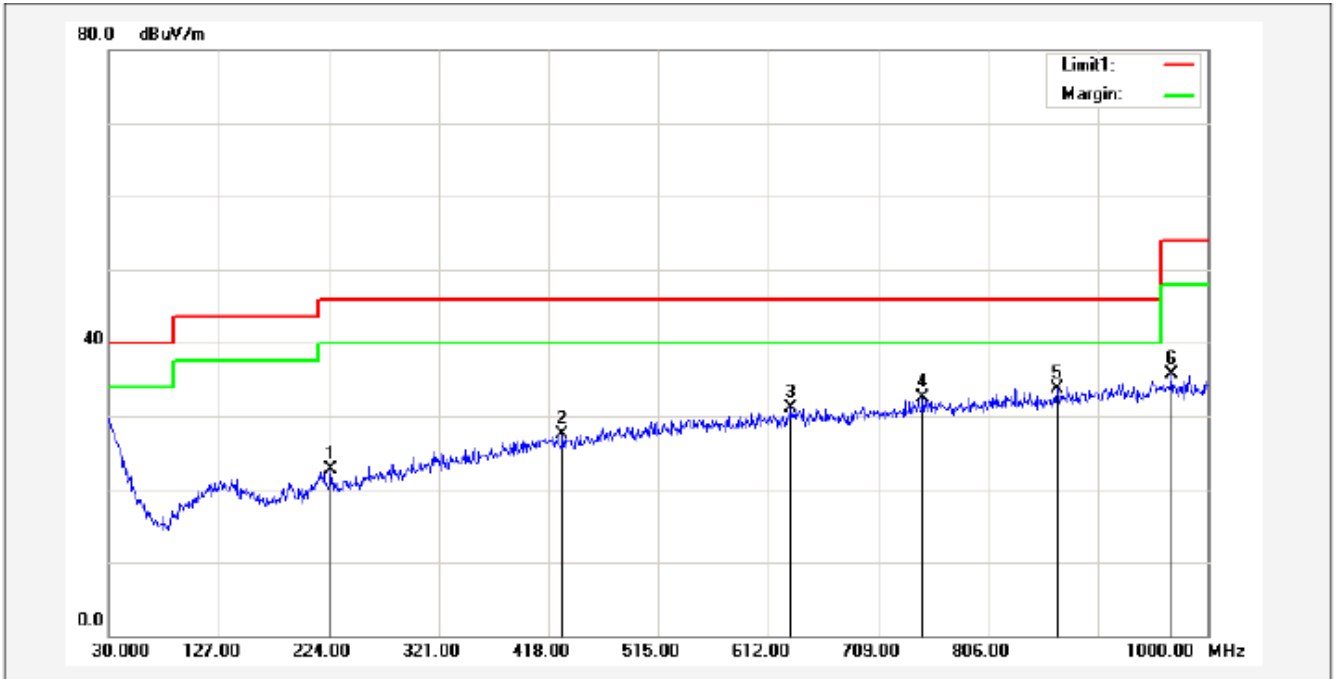
RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	335.5500	44.89	-18.26	26.63	46.00	-19.37			peak
2	412.1800	43.04	-15.57	27.47	46.00	-18.53			peak
3	552.8300	42.81	-13.15	29.66	46.00	-16.34			peak
4	638.1900	44.30	-12.48	31.82	46.00	-14.18			peak
5	735.1900	43.74	-11.47	32.27	46.00	-13.73			peak
6*	931.1300	44.28	-9.66	34.62	46.00	-11.38			peak

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



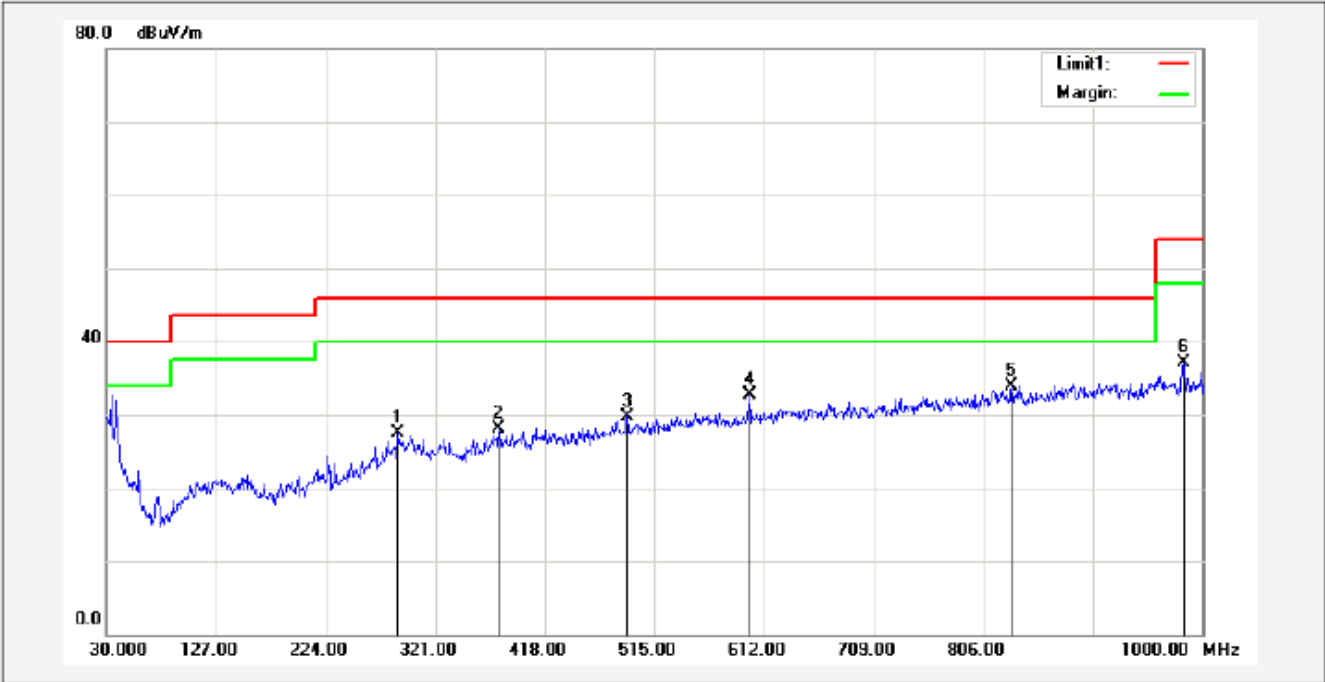
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	225.9400	43.95	-21.24	22.71	46.00	-23.29			peak
2	430.6100	43.02	-15.60	27.42	46.00	-18.58			peak
3	632.3700	43.60	-12.49	31.11	46.00	-14.89			peak
4	748.7700	43.62	-11.21	32.41	46.00	-13.59			peak
5*	867.1100	44.06	-10.40	33.66	46.00	-12.34			peak
6	967.9900	44.51	-8.89	35.62	54.00	-18.38			peak

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

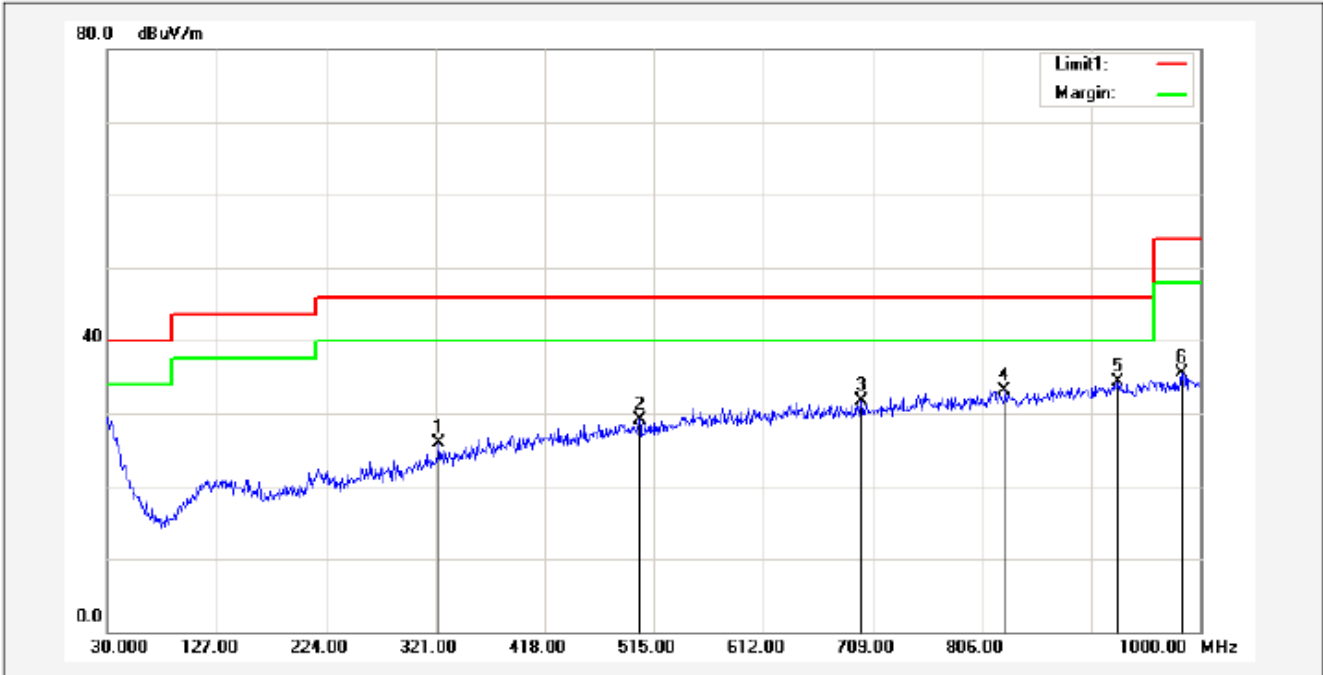
RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	288.0200	47.90	-20.45	27.45	46.00	-18.55			peak
2	377.2600	44.81	-16.67	28.14	46.00	-17.86			peak
3	490.7500	44.16	-14.36	29.80	46.00	-16.20			peak
4	599.3900	45.68	-12.88	32.80	46.00	-13.20			peak
5*	831.2200	44.55	-10.60	33.95	46.00	-12.05			peak
6	983.5100	46.32	-9.24	37.08	54.00	-16.92			peak

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	323.9100	44.58	-18.72	25.86	46.00	-20.14			peak
2	502.3900	43.36	-14.33	29.03	46.00	-16.97			peak
3	699.3000	43.73	-11.96	31.77	46.00	-14.23			peak
4	826.3700	43.53	-10.51	33.02	46.00	-12.98			peak
5*	927.2500	43.80	-9.55	34.25	46.00	-11.75			peak
6	983.5100	44.77	-9.24	35.53	54.00	-18.47			peak

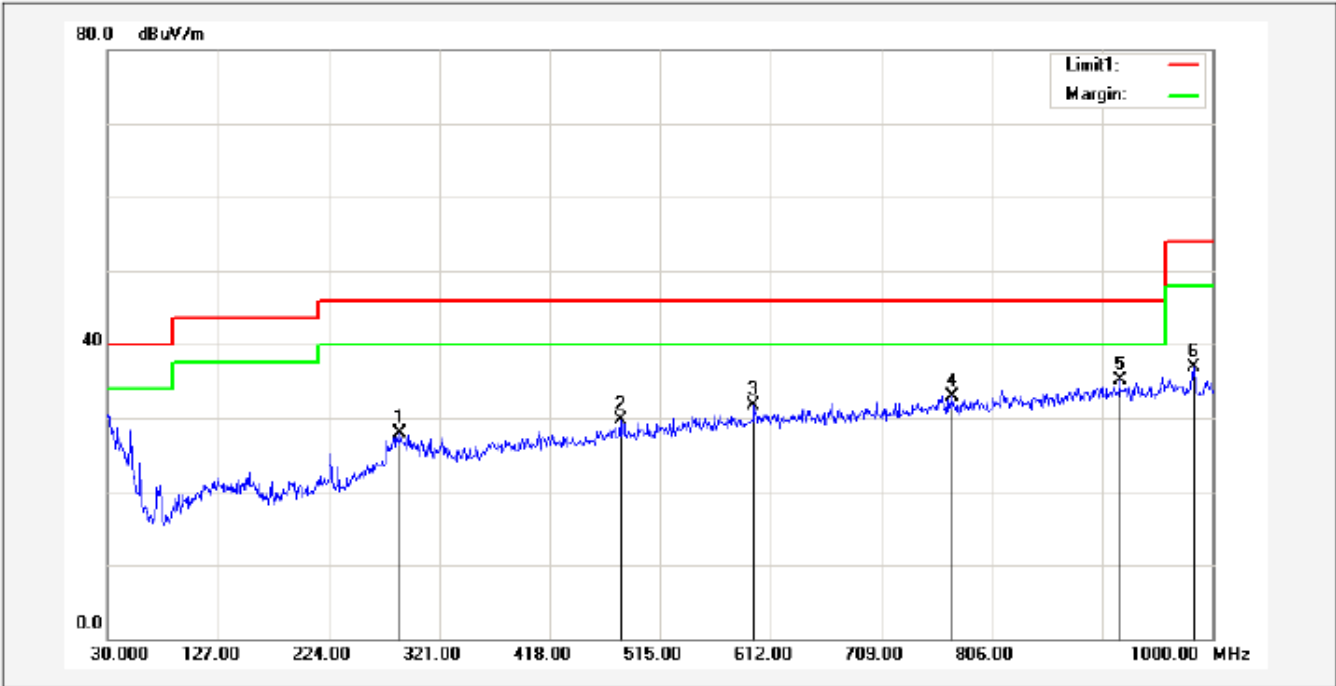
**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



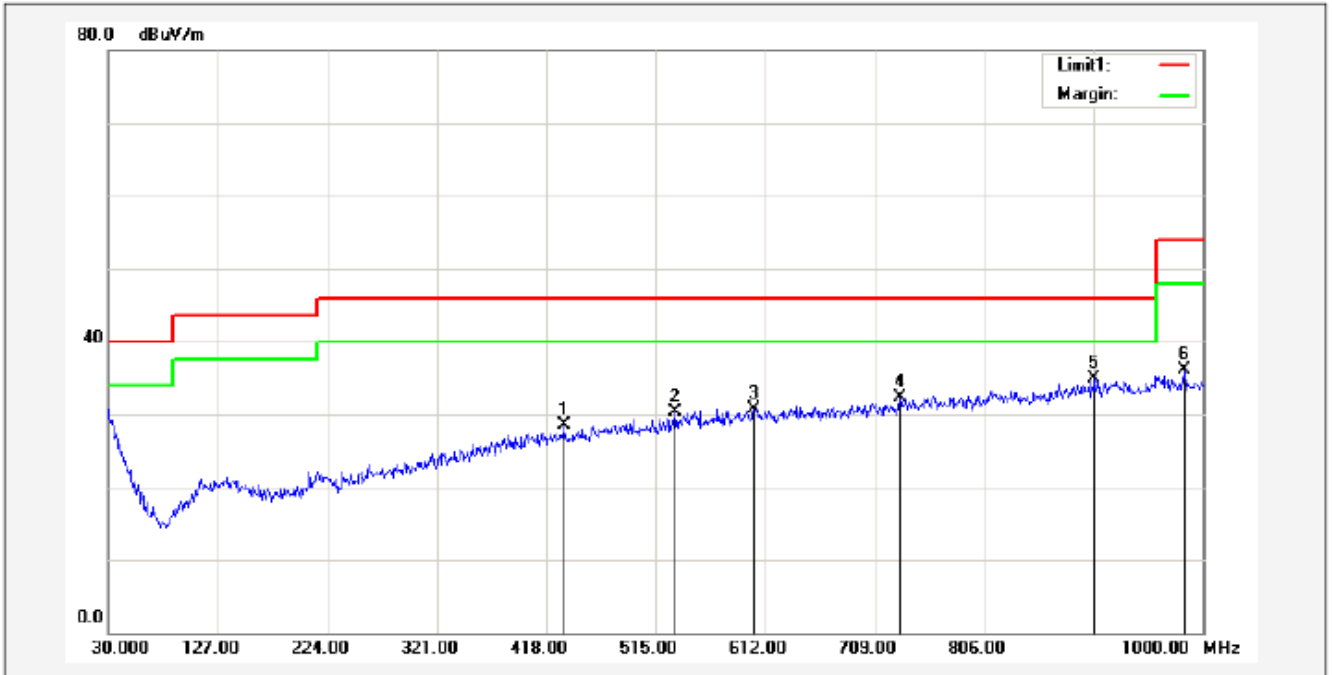
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	287.0500	48.35	-20.45	27.90	46.00	-18.10			peak
2	480.0800	43.98	-14.36	29.62	46.00	-16.38			peak
3	597.4500	44.57	-12.91	31.66	46.00	-14.34			peak
4	771.0800	44.09	-11.14	32.95	46.00	-13.05			peak
5*	918.5200	44.49	-9.39	35.10	46.00	-10.90			peak
6	983.5100	46.24	-9.24	37.00	54.00	-17.00			peak

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	433.5200	44.19	-15.62	28.57	46.00	-17.43			peak
2	532.4600	43.98	-13.74	30.24	46.00	-15.76			peak
3	602.3000	43.51	-12.81	30.70	46.00	-15.30			peak
4	731.3100	43.94	-11.57	32.37	46.00	-13.63			peak
5*	903.9700	44.67	-9.73	34.94	46.00	-11.06			peak
6	983.5100	45.36	-9.24	36.12	54.00	-17.88			peak

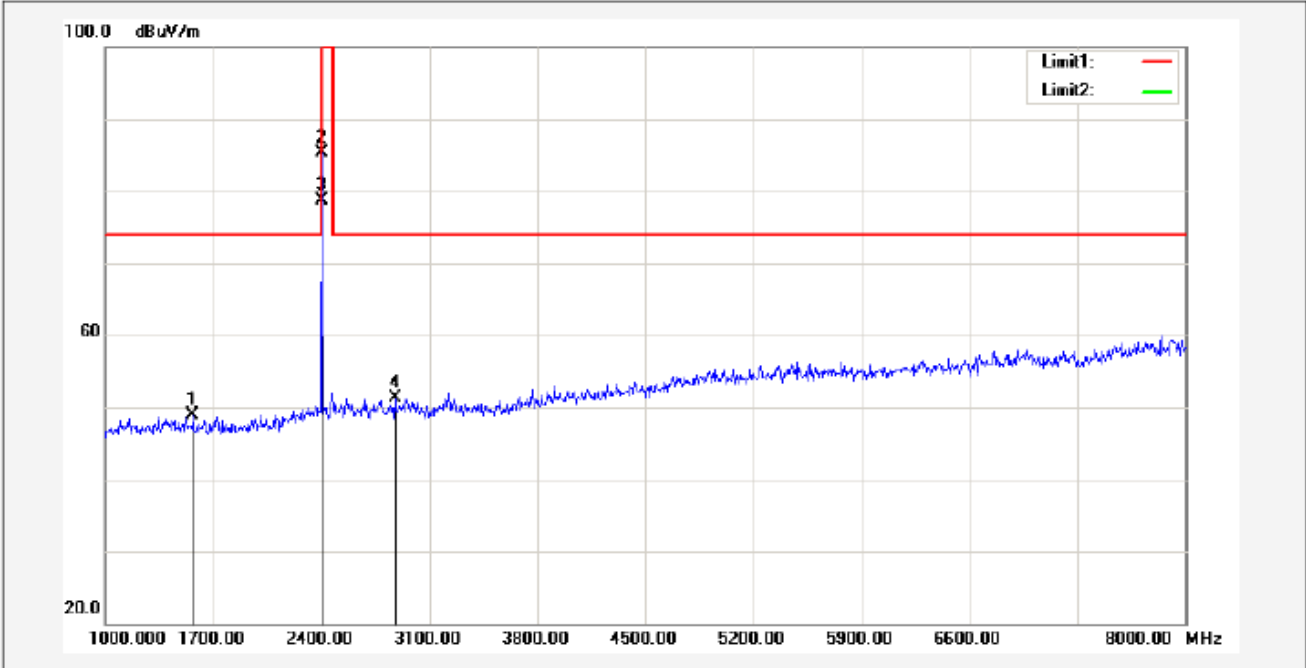
**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

**RADIATED EMISSION ABOVE 1GHZ  
 FOR BR/EDR**

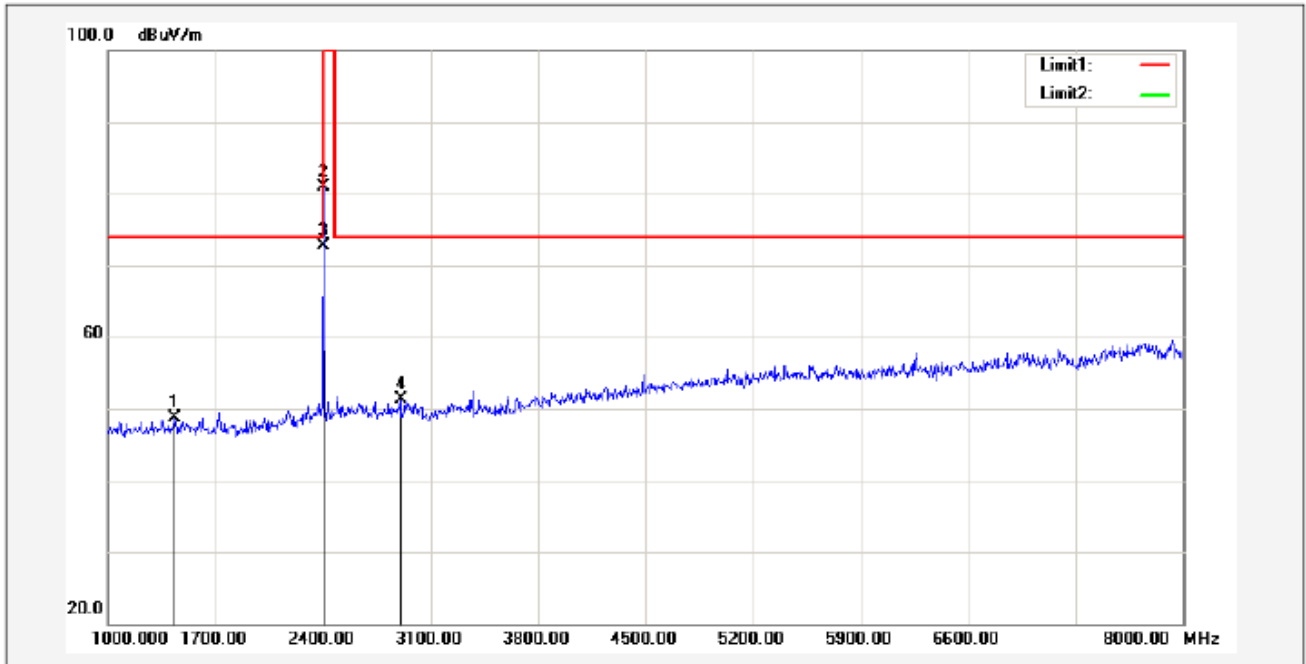
**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1567.000	55.68	-6.76	48.92	74.00	-25.08			peak
2X	2402.000	88.12	-2.81	85.31	114.00	-28.69			peak
3*	2402.000	81.49	-2.81	78.68	94.00	-15.32			AVG
4	2876.000	52.91	-1.58	51.33	74.00	-22.67			peak

**RESULT: PASS**

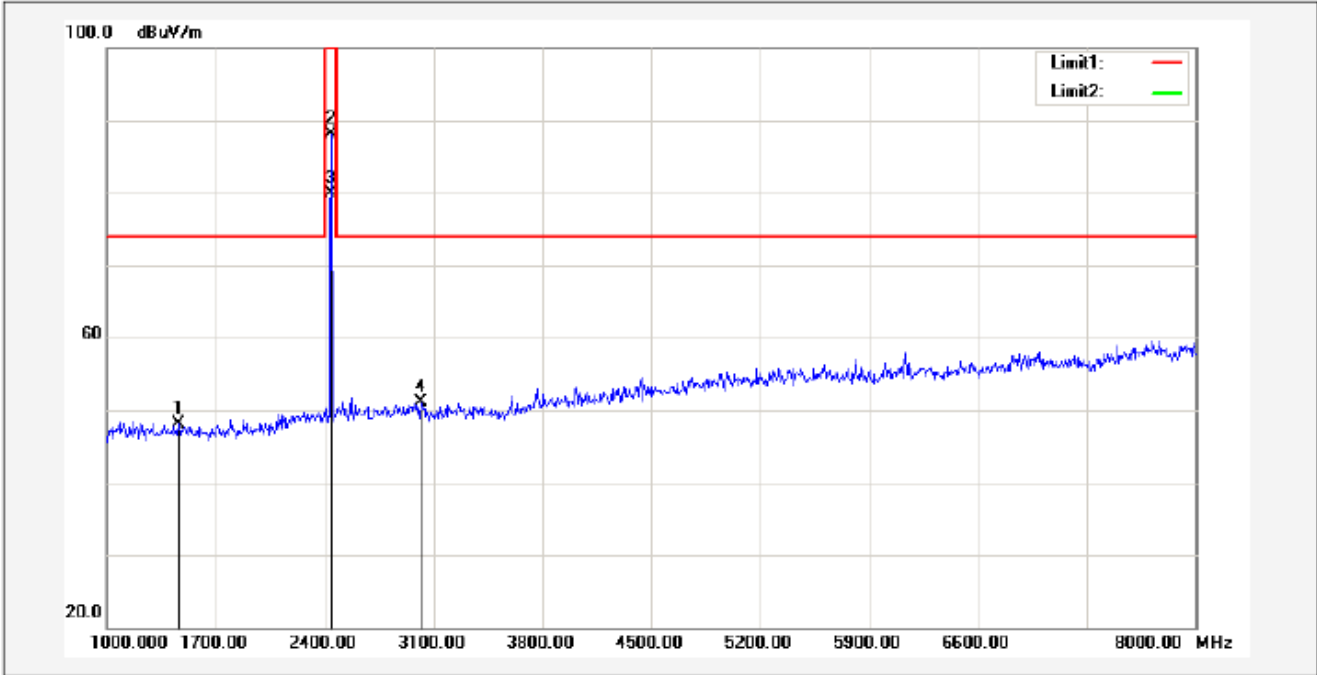
RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1434.000	55.78	-7.00	48.78	74.00	-25.22			peak
2X	2402.000	83.68	-2.81	80.87	114.00	-33.13			peak
3*	2402.000	75.46	-2.81	72.65	94.00	-21.35			AVG
4	2904.000	52.86	-1.53	51.33	74.00	-22.67			peak

**RESULT: PASS**

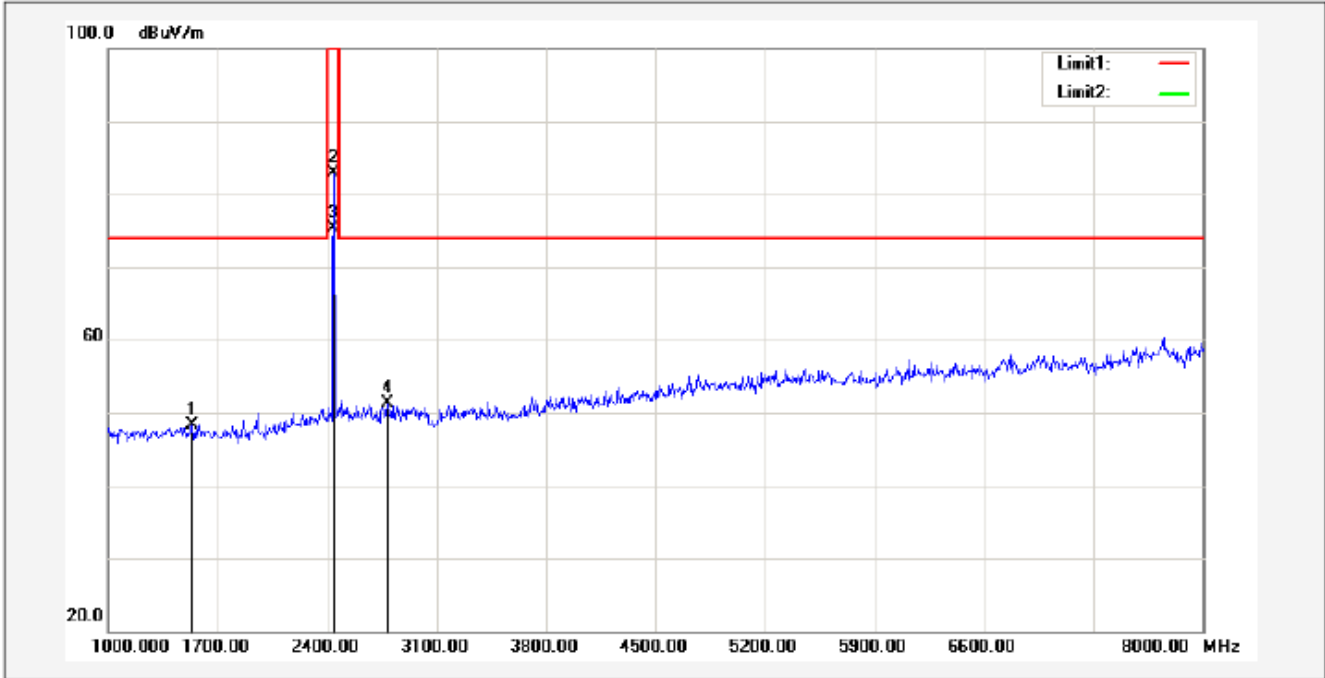
RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1462.000	55.04	-6.95	48.09	74.00	-25.91			peak
2	2441.000	90.71	-2.58	88.13	114.00	-25.87			peak
3*	2441.000	82.40	-2.58	79.82	94.00	-14.18			AVG
4	3016.000	52.41	-1.33	51.08	74.00	-22.92			peak

RESULT: PASS

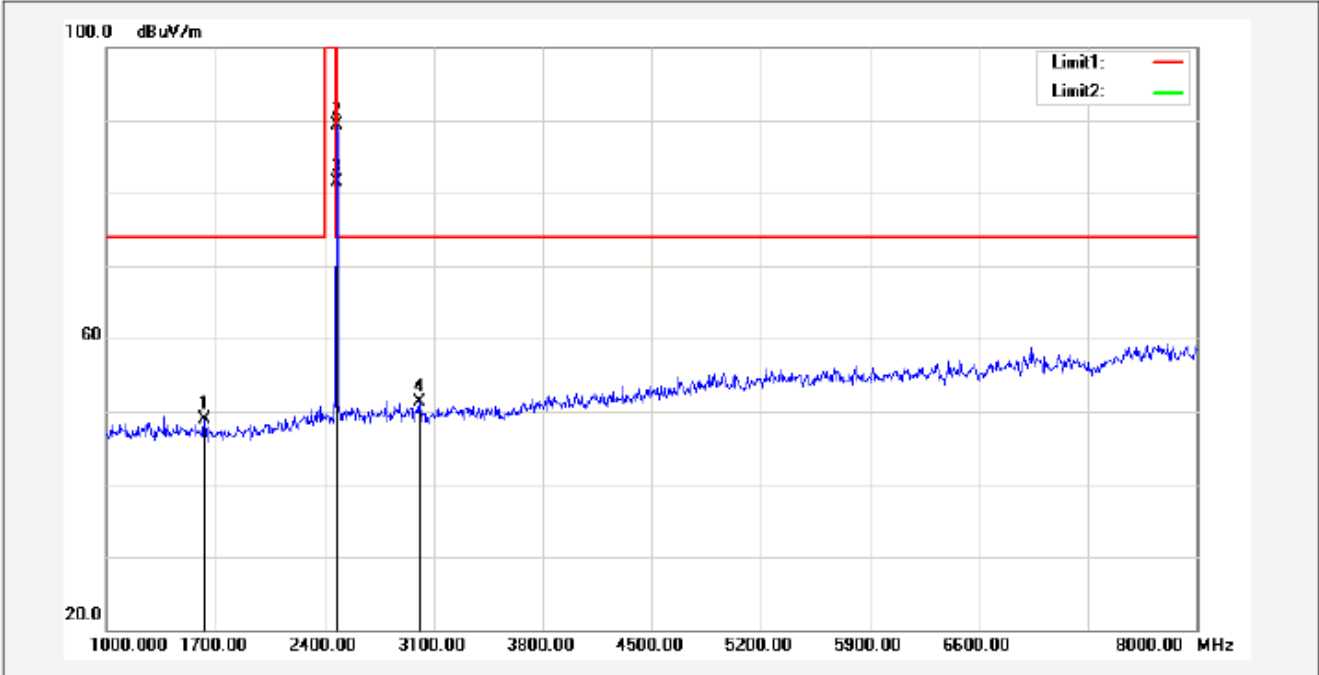
RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1539.000	55.10	-6.81	48.29	74.00	-25.71			peak
2	2441.000	85.58	-2.58	83.00	114.00	-31.00			peak
3*	2441.000	77.84	-2.58	75.26	94.00	-18.74			AVG
4	2785.000	53.08	-1.75	51.33	74.00	-22.67			peak

RESULT: PASS

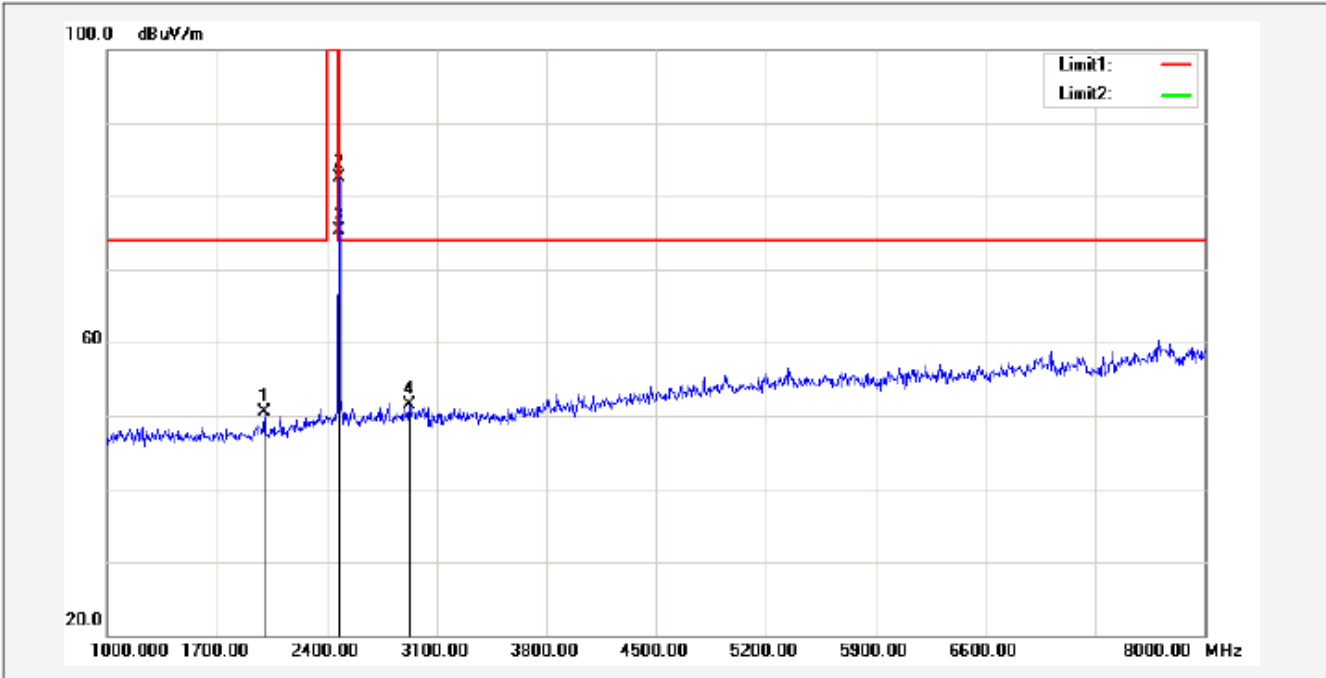
RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1630.000	55.47	-6.64	48.83	74.00	-25.17			peak
2	2480.000	91.77	-2.39	89.38	114.00	-24.62			peak
3*	2480.000	83.93	-2.39	81.54	94.00	-12.46			AVG
4	3009.000	52.74	-1.34	51.40	74.00	-22.60			peak

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	2001.000	55.53	-4.99	50.54	74.00	-23.46			peak
2	2480.000	84.98	-2.39	82.59	114.00	-31.41			peak
3*	2480.000	77.60	-2.39	75.21	94.00	-18.79			AVG
4	2925.000	52.97	-1.49	51.48	74.00	-22.52			peak

**RESULT: PASS**

**Note:** 8~25GHz at least have 20dB margin. No recording in the test report.  
 Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.  
 The "Factor" value can be calculated automatically by software of measurement system.



**Field strength of the fundamental signal**

**Peak value**

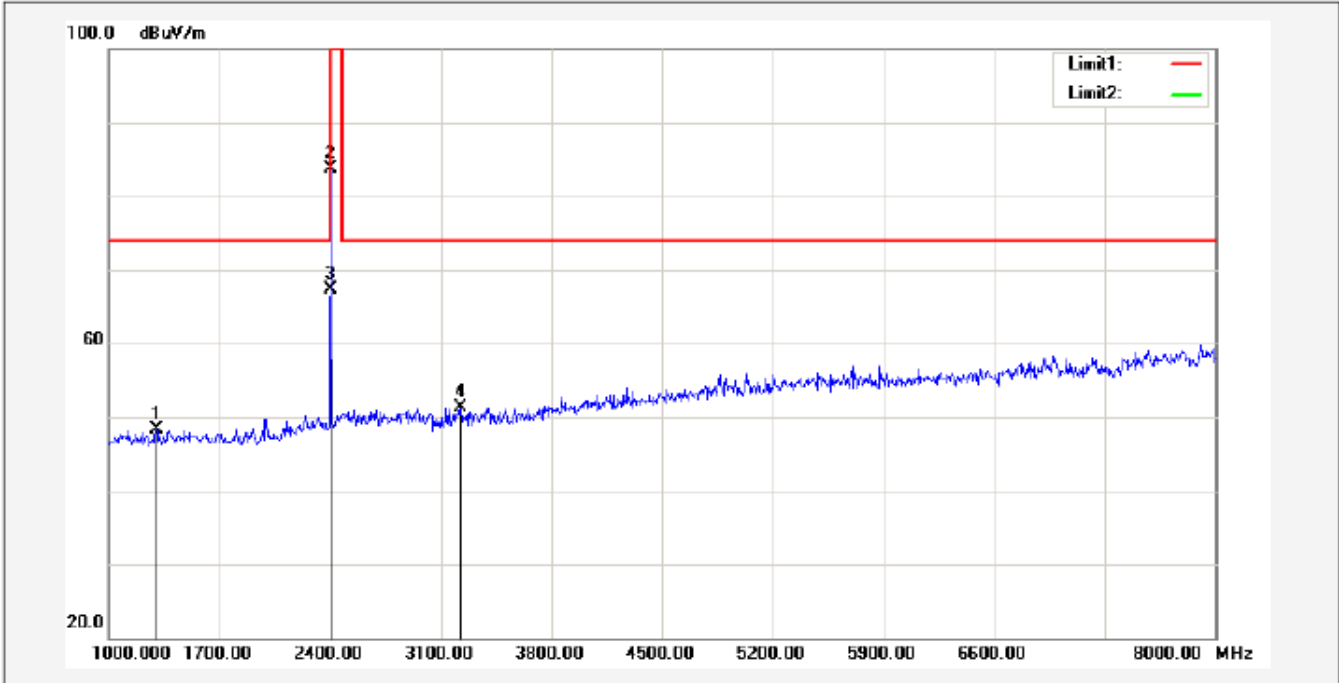
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	88.12	-2.81	85.31	114	-28.69	Horizontal
2402	83.68	-2.81	80.87	114	-33.13	Vertical
2441	90.71	-2.58	88.13	114	-25.87	Horizontal
2441	85.58	-2.58	83.00	114	-31.00	Vertical
2480	91.77	-2.39	89.38	114	-24.62	Horizontal
2480	84.98	-2.39	82.59	114	-31.41	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.49	-2.81	78.68	94	-15.32	Horizontal
2402	75.46	-2.81	72.65	94	-21.35	Vertical
2441	82.40	-2.58	79.82	94	-14.18	Horizontal
2441	77.84	-2.58	75.26	94	-18.74	Vertical
2480	83.93	-2.39	81.54	94	-12.46	Horizontal
2480	77.60	-2.39	75.21	94	-18.79	Vertical

**FOR BLE**

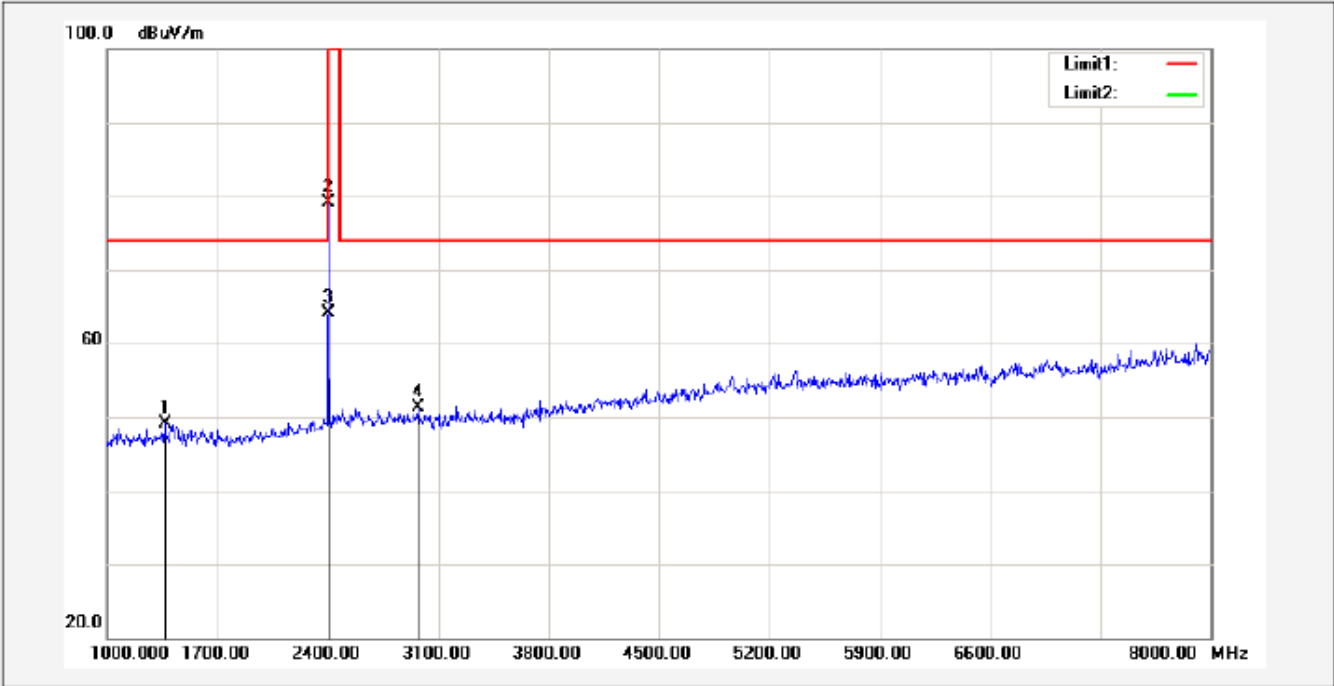
**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1301.000	55.71	-7.42	48.29	74.00	-25.71			peak
2X	2402.000	86.60	-2.81	83.79	114.00	-30.12			peak
3*	2402.000	70.09	-2.81	67.28	94.00	-26.72			AVG
4	3226.000	52.20	-0.98	51.22	74.00	-22.78			peak

**RESULT: PASS**

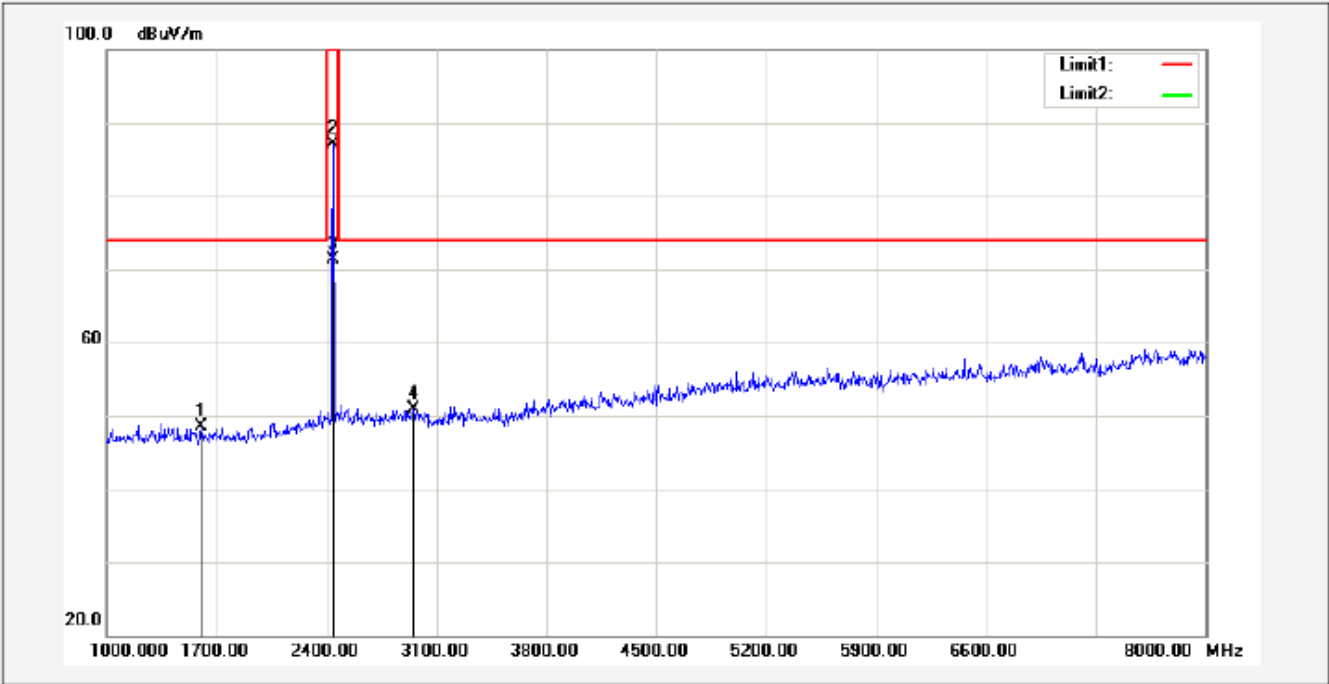
RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1364.000	56.35	-7.19	49.16	74.00	-24.84			peak
2X	2402.000	82.00	-2.81	79.19	114.00	-34.81			peak
3*	2402.000	66.88	-2.81	64.07	94.00	-29.93			AVG
4	2974.000	52.81	-1.41	51.40	74.00	-22.60			peak

**RESULT: PASS**

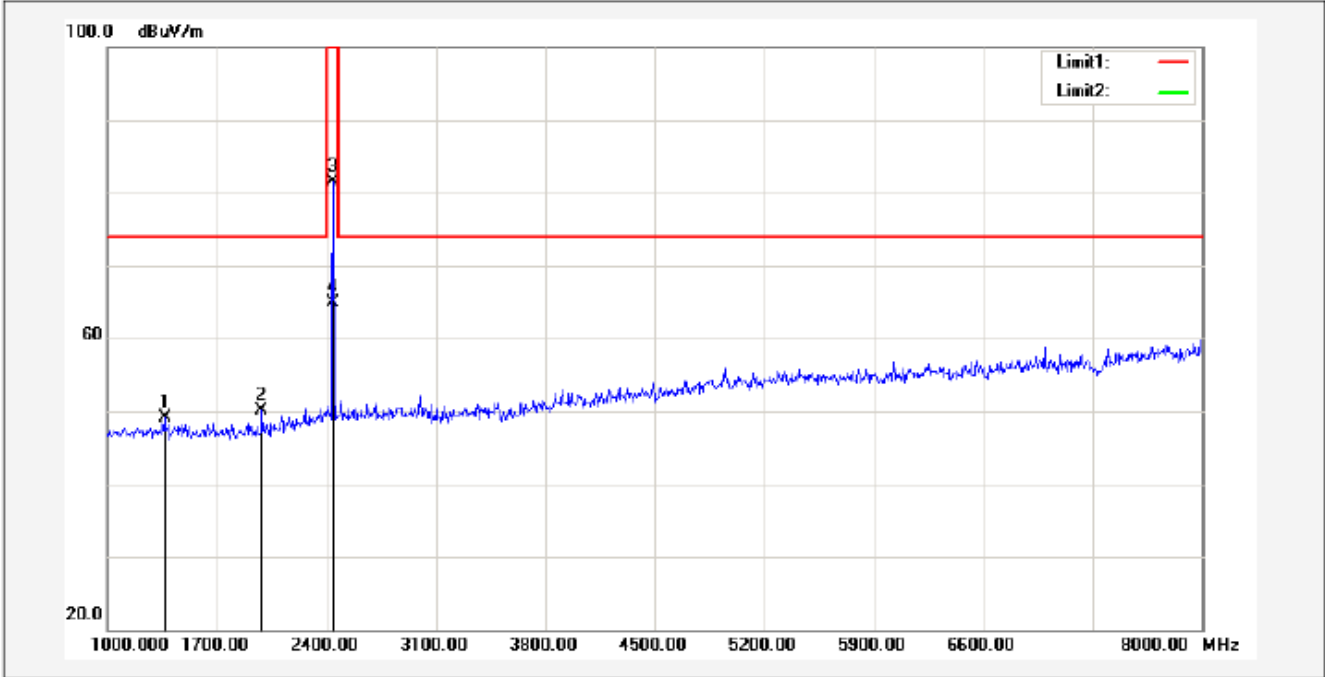
RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1602.000	55.17	-6.70	48.47	74.00	-25.53			peak
2	2440.000	89.72	-2.58	87.14	114.00	-26.86			peak
3*	2440.000	73.82	-2.58	71.24	94.00	-22.76			AVG
4	2953.000	52.35	-1.44	50.91	74.00	-23.09			peak

**RESULT: PASS**

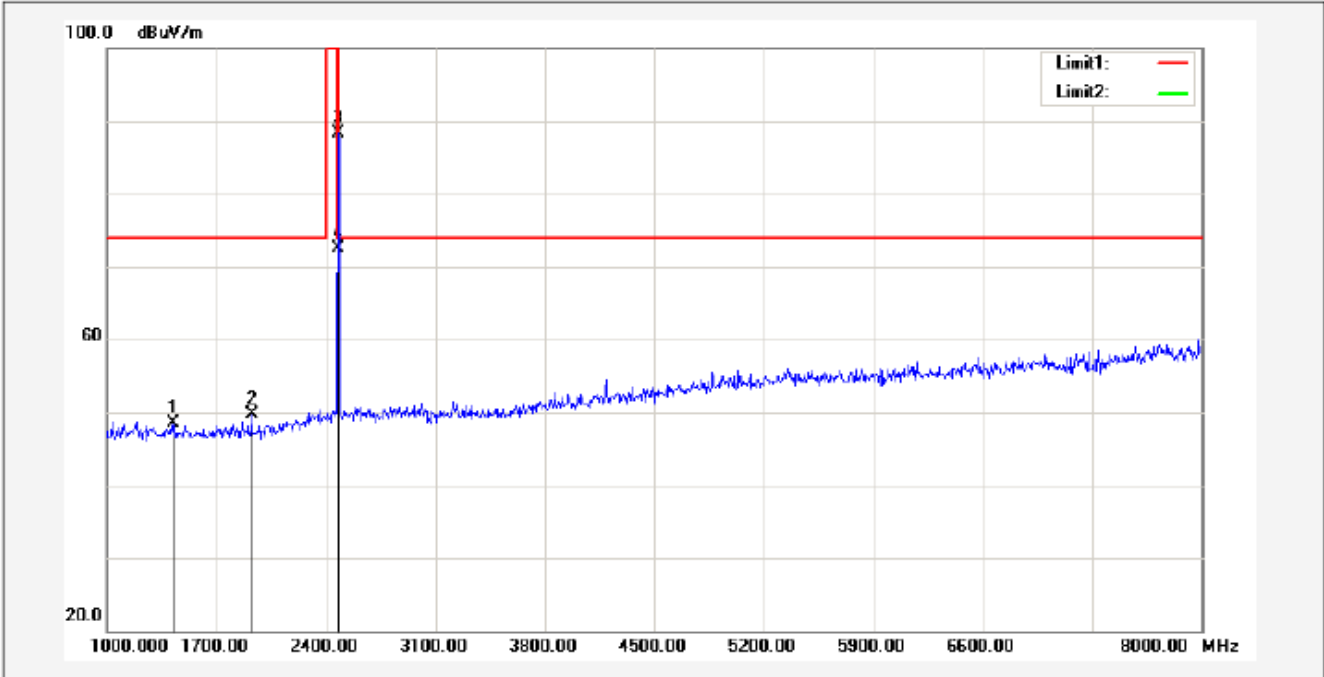
RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1364.000	56.25	-7.19	49.06	74.00	-24.94			peak
2*	1987.000	55.17	-5.08	50.09	74.00	-23.91			peak
3	2440.000	84.16	-2.58	81.58	114.00	-32.42			peak
4	2440.000	67.40	-2.58	64.82	94.00	-29.18			AVG

RESULT: PASS

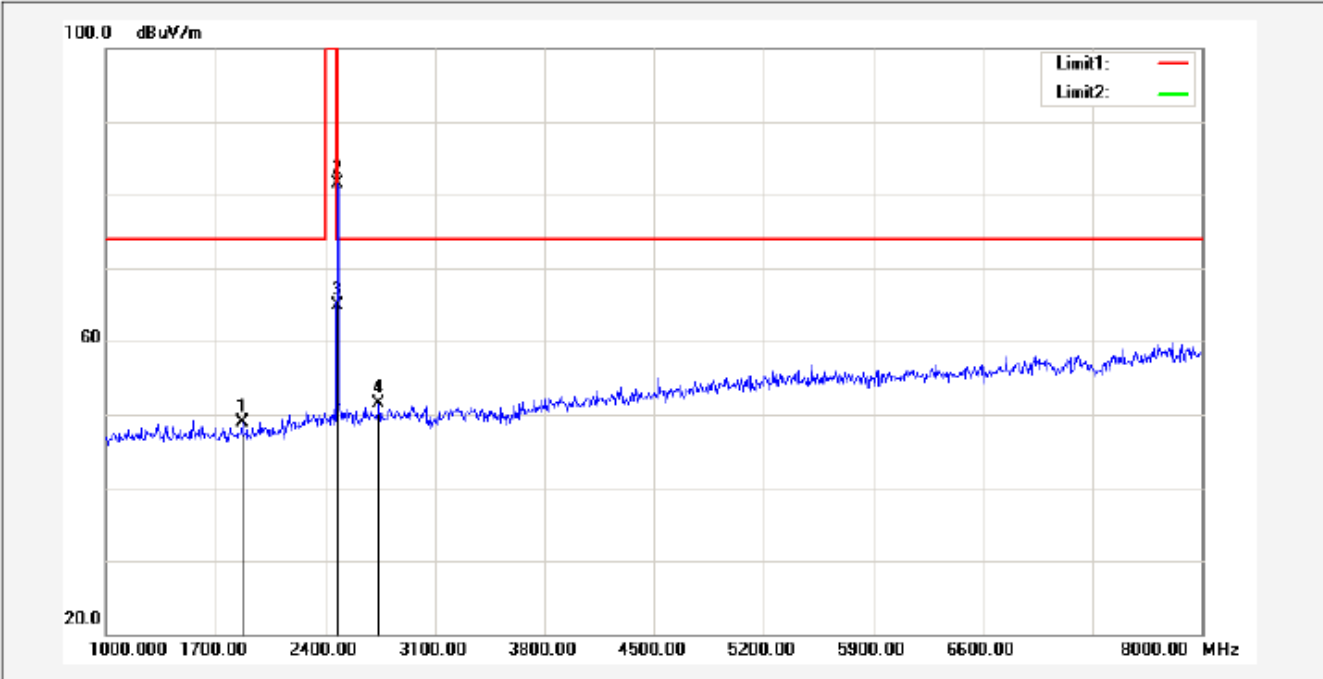
RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1427.000	55.50	-7.01	48.49	74.00	-25.51			peak
2*	1924.000	55.15	-5.48	49.67	74.00	-24.33			peak
3	2480.000	90.60	-2.39	88.21	114.00	-25.79			peak
4	2480.000	74.97	-2.39	72.58	114.00	-41.42			peak

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	1868.000	54.83	-5.84	48.99	74.00	-25.01			peak
2	2480.000	83.91	-2.39	81.52	114.00	-32.48			peak
3	2480.000	67.26	-2.39	64.87	94.00	-29.13			AVG
4*	2743.000	53.37	-1.82	51.55	74.00	-22.45			peak

**RESULT: PASS**

**Note:** 8~25GHz at least have 20dB margin. No recording in the test report.  
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.  
The "Factor" value can be calculated automatically by software of measurement system.

**Field strength of the fundamental signal****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.60	-2.81	83.79	114	-30.12	Horizontal
2402	82.00	-2.81	79.19	114	-34.81	Vertical
2440	89.72	-2.58	87.14	114	-26.86	Horizontal
2440	84.16	-2.58	81.58	114	-32.42	Vertical
2480	90.60	-2.39	88.21	114	-25.79	Horizontal
2480	83.91	-2.93	81.52	114	-32.48	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	70.09	-2.81	67.28	94	-26.72	Horizontal
2402	66.88	-2.81	64.07	94	-29.93	Vertical
2440	73.82	-2.58	71.24	94	-22.76	Horizontal
2440	67.40	-2.58	64.82	94	-29.18	Vertical
2480	74.97	-2.39	72.58	94	-41.42	Horizontal
2480	67.26	-2.39	64.87	94	-29.13	Vertical



## 9. BAND EDGE EMISSION

### 9.1. MEASUREMENT PROCEDURE

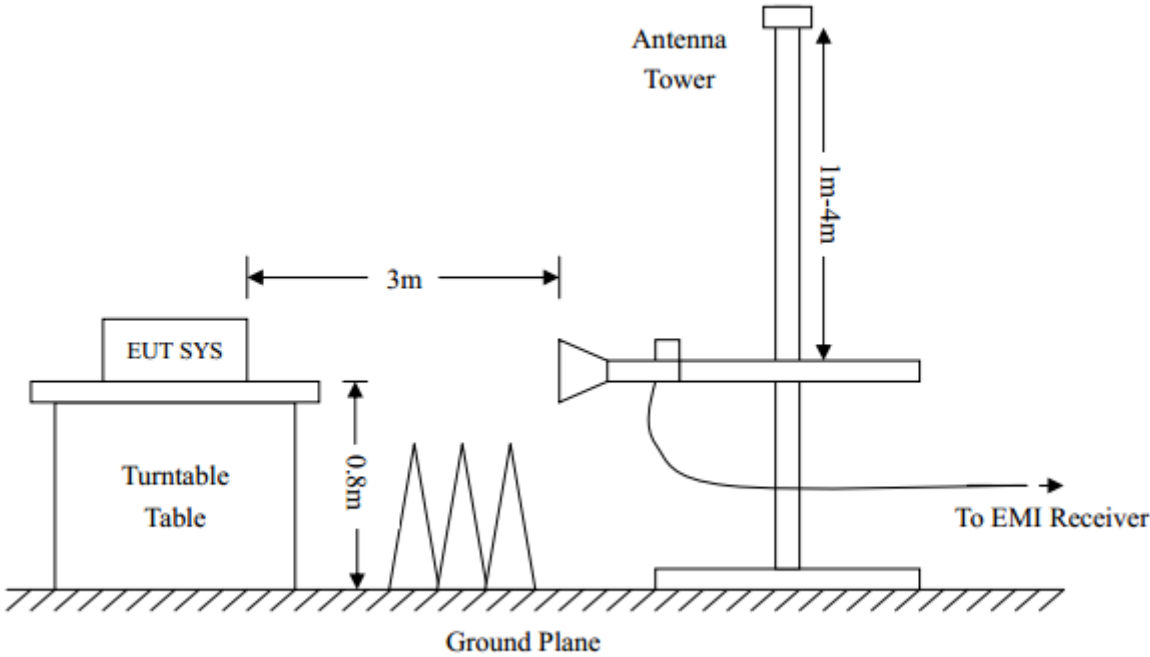
1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

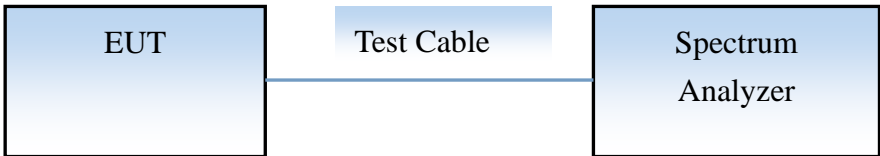
3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1.5MHz / Sweep=AUTO

### 9.2 TEST SETUP

RADIATED EMISSION TEST SETUP

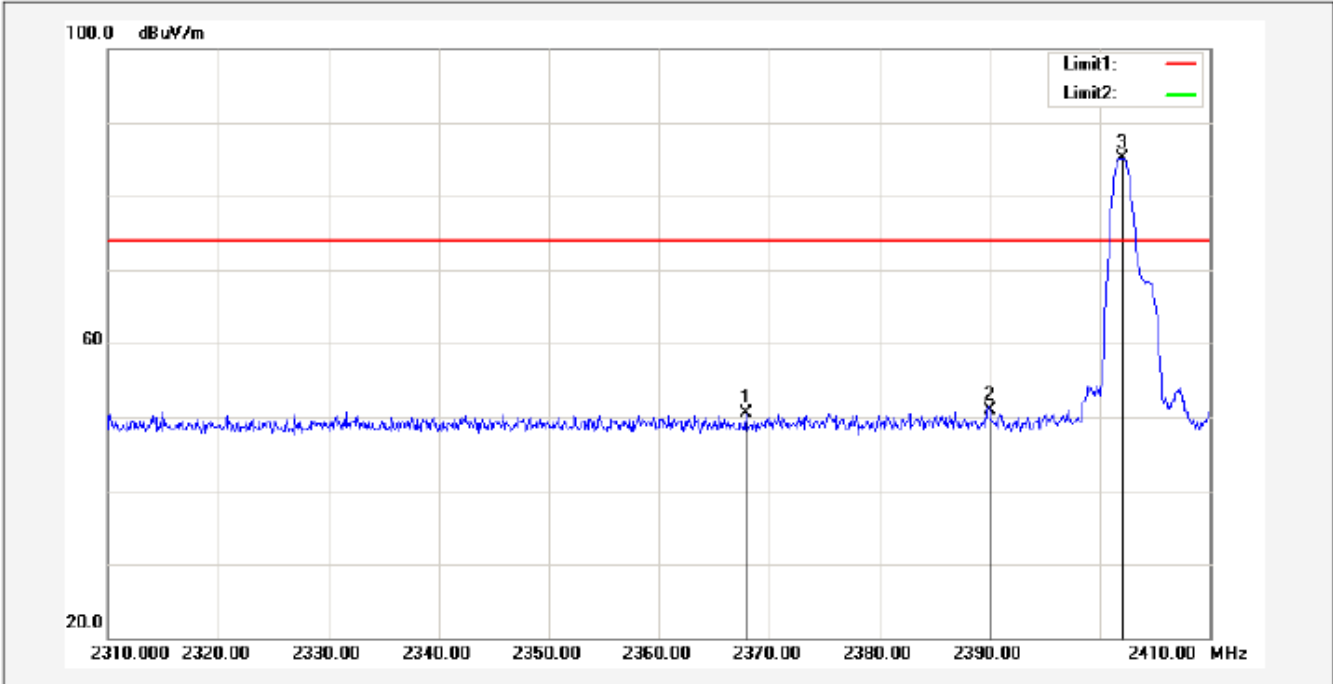


CONDUCTED TEST SETUP



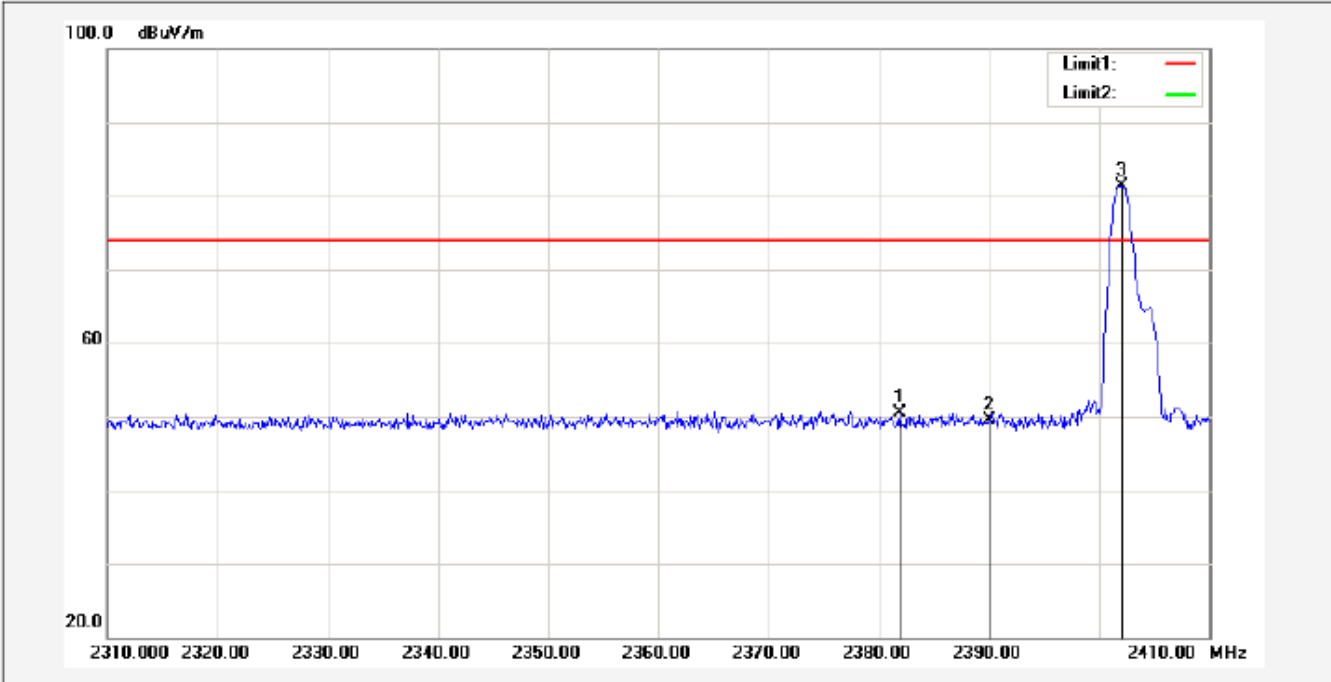
**9.3 RADIATED TEST RESULT**  
**(Worst modulation:GFSK)**  
**FOR BR/EDR**

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



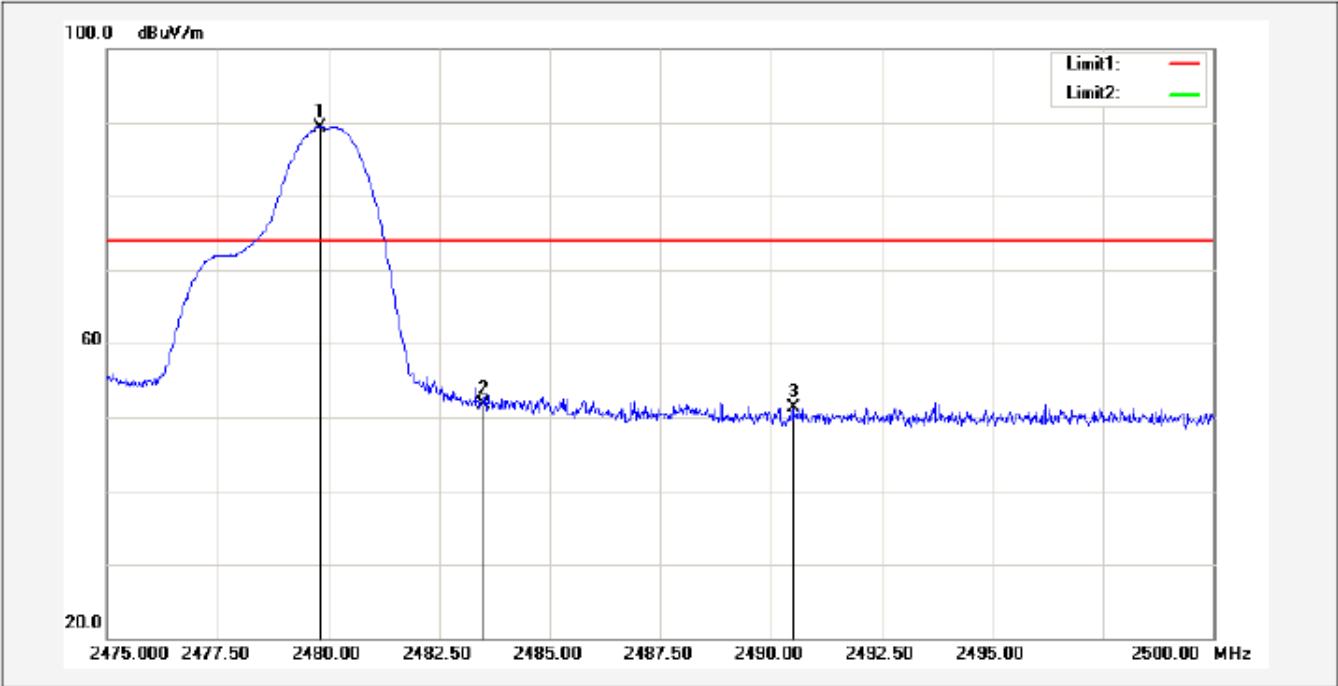
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	2367.900	53.43	-2.98	50.45	74.00	-23.55			peak
2	2390.000	53.78	-2.86	50.92	74.00	-23.08			peak
3*	2402.000	88.00	-2.80	85.20	74.00	11.20			peak

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



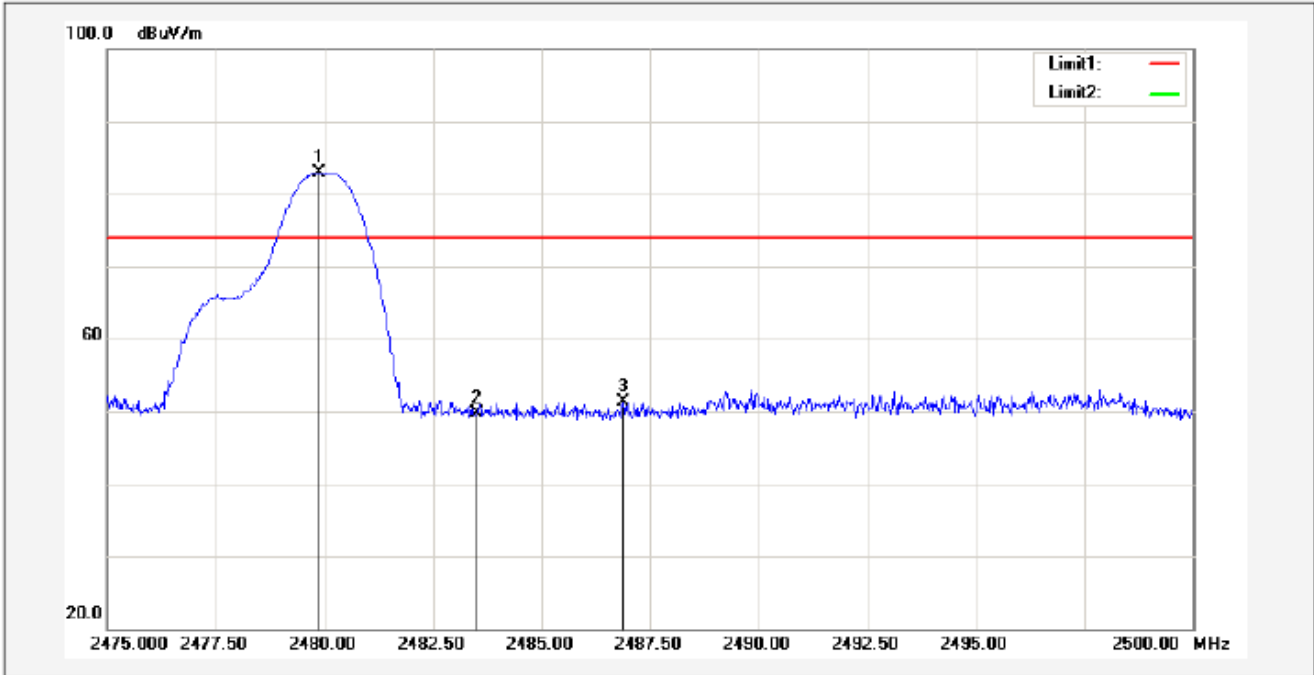
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	2381.900	53.48	-2.91	50.57	74.00	-23.43			peak
2	2390.000	52.28	-2.86	49.42	74.00	-24.58			peak
3*	2402.000	84.13	-2.80	81.33	74.00	7.33			peak

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	2480.000	91.68	-2.37	89.31	74.00	15.31			peak
2	2483.500	54.15	-2.35	51.80	74.00	-22.20			peak
3	2490.500	53.54	-2.31	51.23	74.00	-22.77			peak

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	2480.000	85.32	-2.37	82.95	74.00	8.95			peak
2	2483.500	52.13	-2.35	49.78	74.00	-24.22			peak
3	2486.875	53.57	-2.33	51.24	74.00	-22.76			peak

**RESULT: PASS**

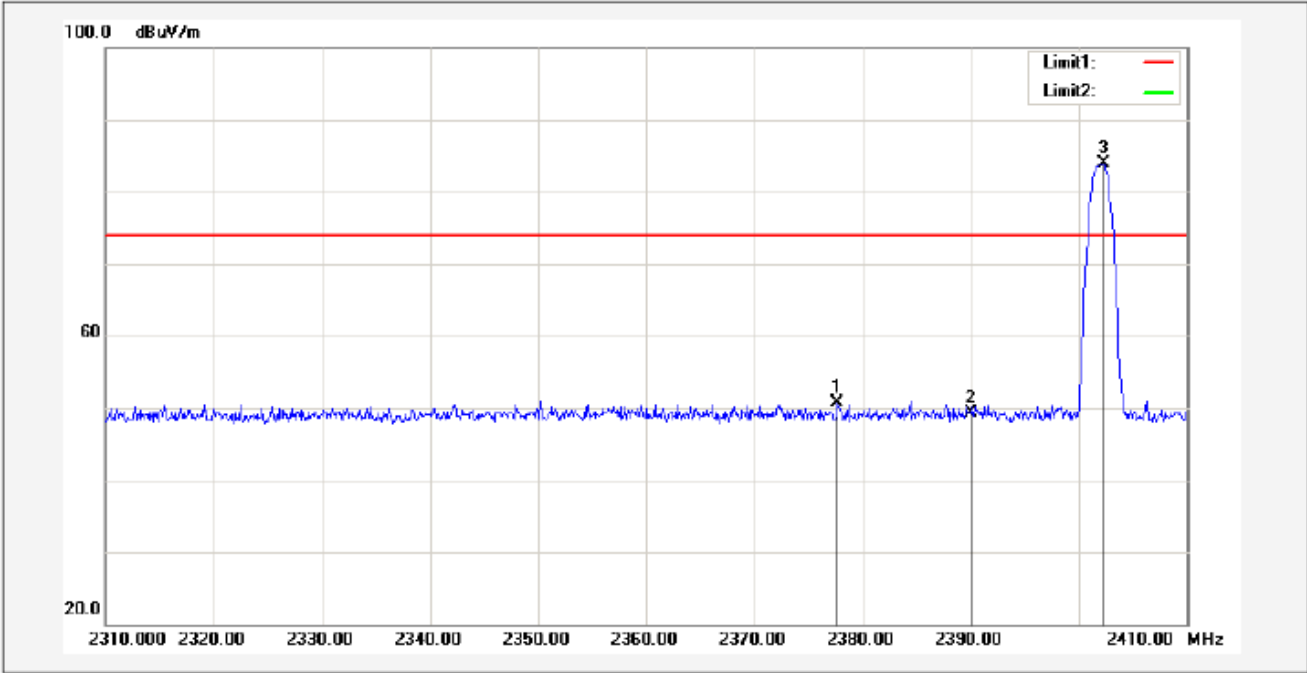
**Note:** The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

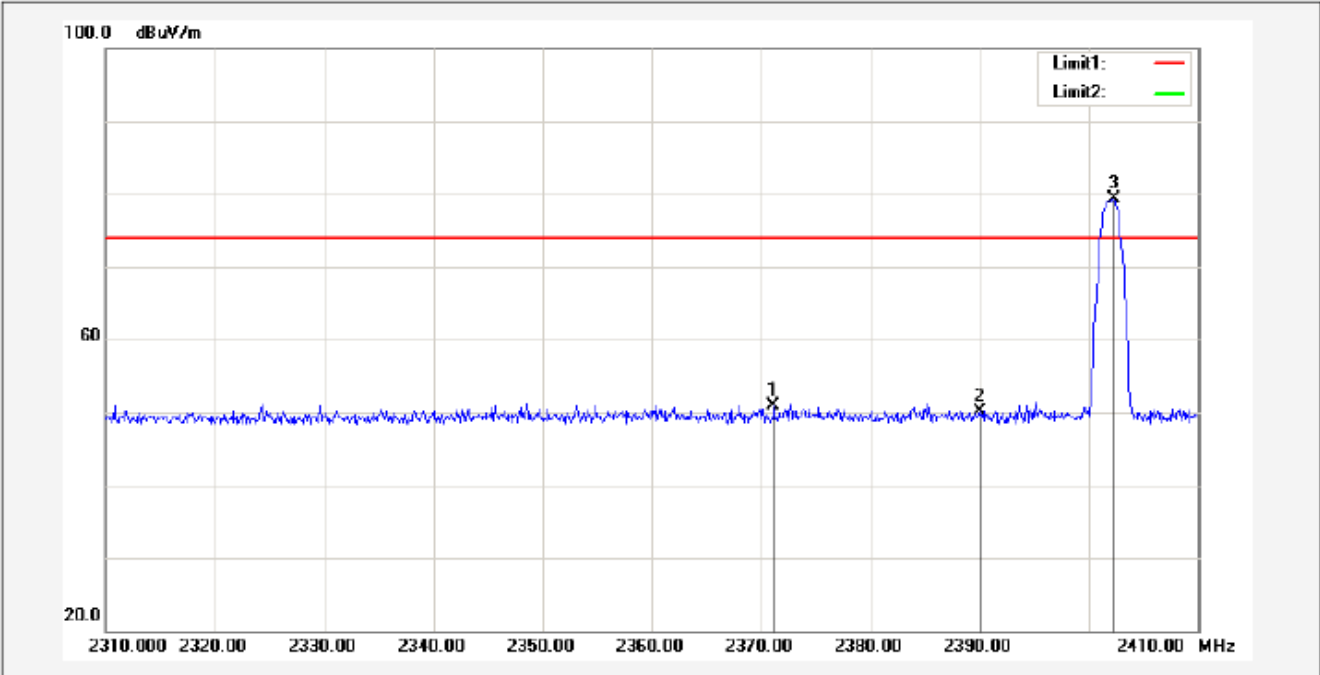
FOR BLE

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



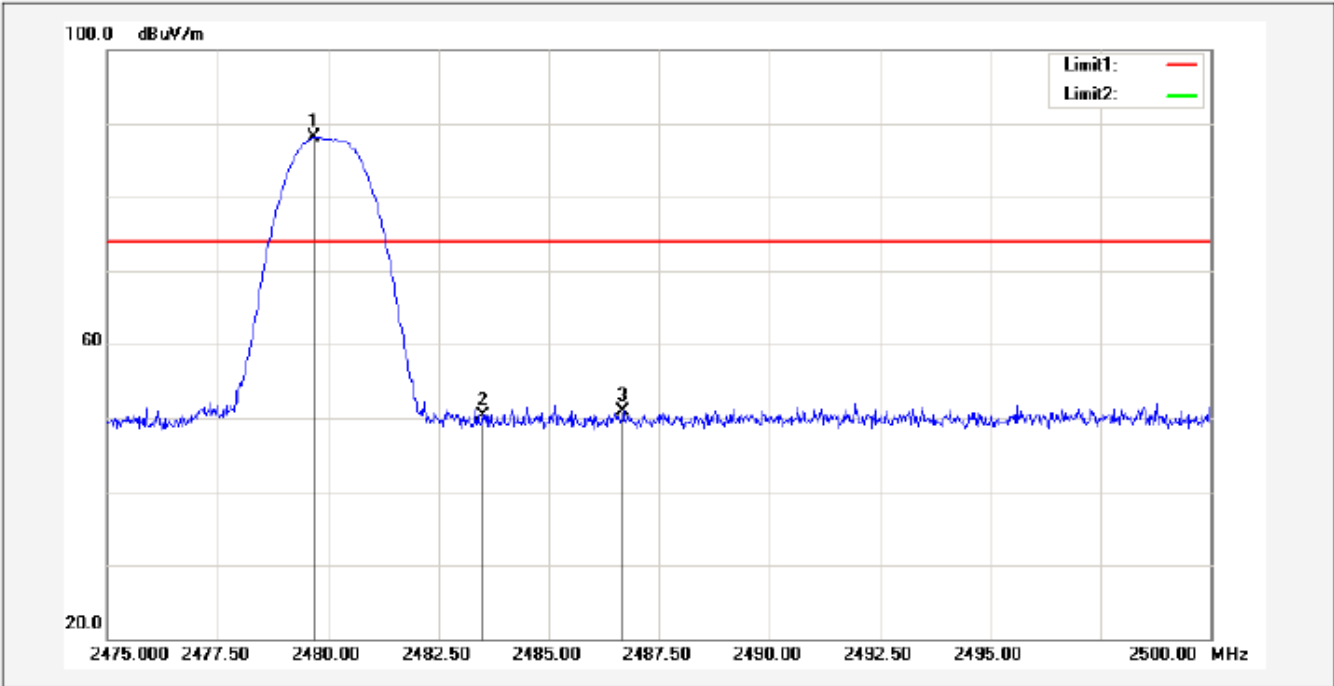
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	2377.700	53.56	-2.93	50.63	74.00	-23.37			peak
2	2390.000	52.21	-2.86	49.35	74.00	-24.65			peak
3*	2402.000	86.68	-2.80	83.88	74.00	9.88			peak

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	2371.200	53.95	-2.97	50.98	74.00	-23.02			peak
2	2390.000	53.02	-2.86	50.16	74.00	-23.84			peak
3*	2402.000	82.17	-2.80	79.37	74.00	5.37			peak

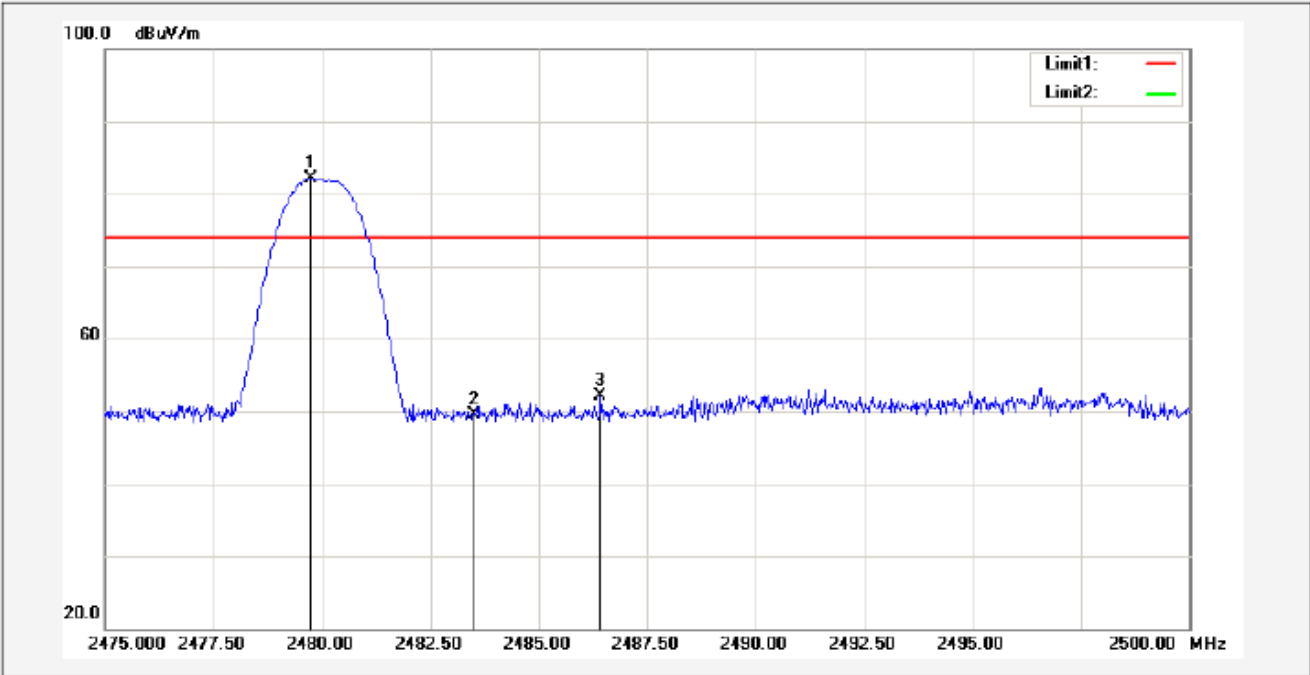
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	2480.000	90.49	-2.37	88.12	74.00	14.12			peak
2	2483.500	52.73	-2.35	50.38	74.00	-23.62			peak
3	2486.700	53.26	-2.33	50.93	74.00	-23.07			peak



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	2480.000	84.49	-2.37	82.12	74.00	8.12			peak
2	2483.500	51.84	-2.35	49.49	74.00	-24.51			peak
3	2486.425	54.52	-2.33	52.19	74.00	-21.81			peak

**RESULT: PASS**

**Note:** The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

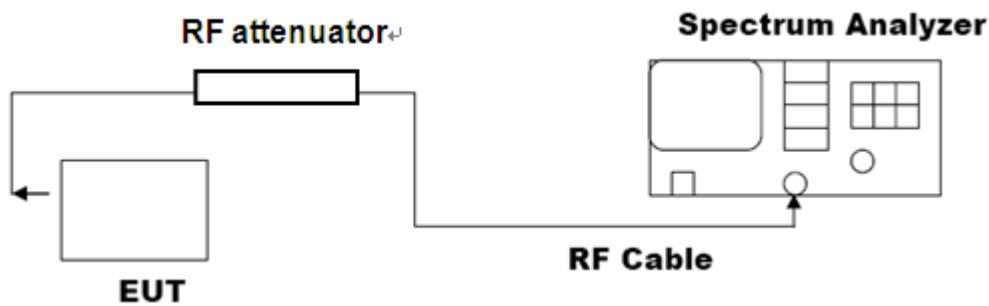
## 10. 20DB BANDWIDTH

### 10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
 $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq RBW$ ; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

### 10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



### 10.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	0.954	PASS
	Middle Channel	0.867	PASS
	High Channel	0.845	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

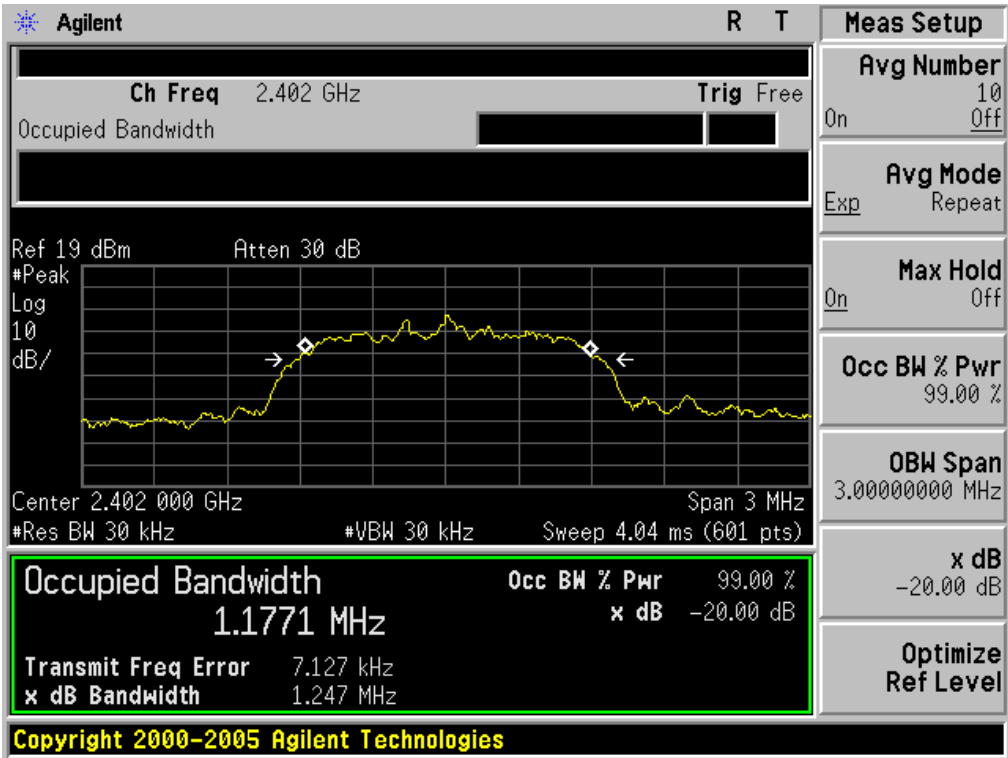


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

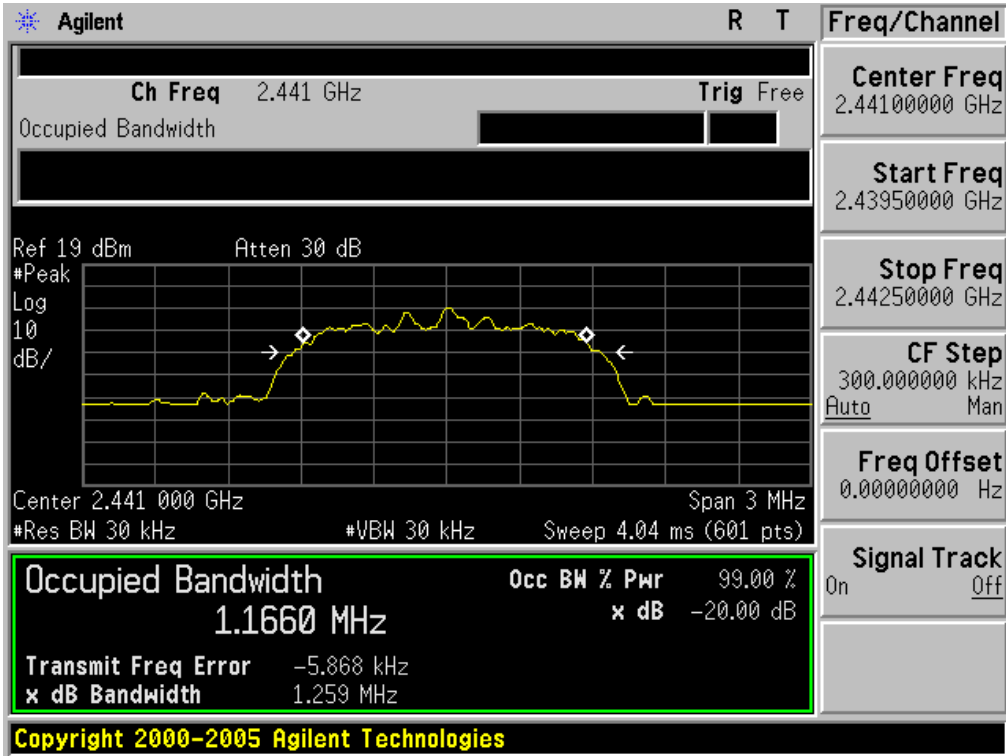


BLUETOOTH 2Mbps LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.247	PASS
	Middle Channel	1.259	PASS
	High Channel	1.259	PASS

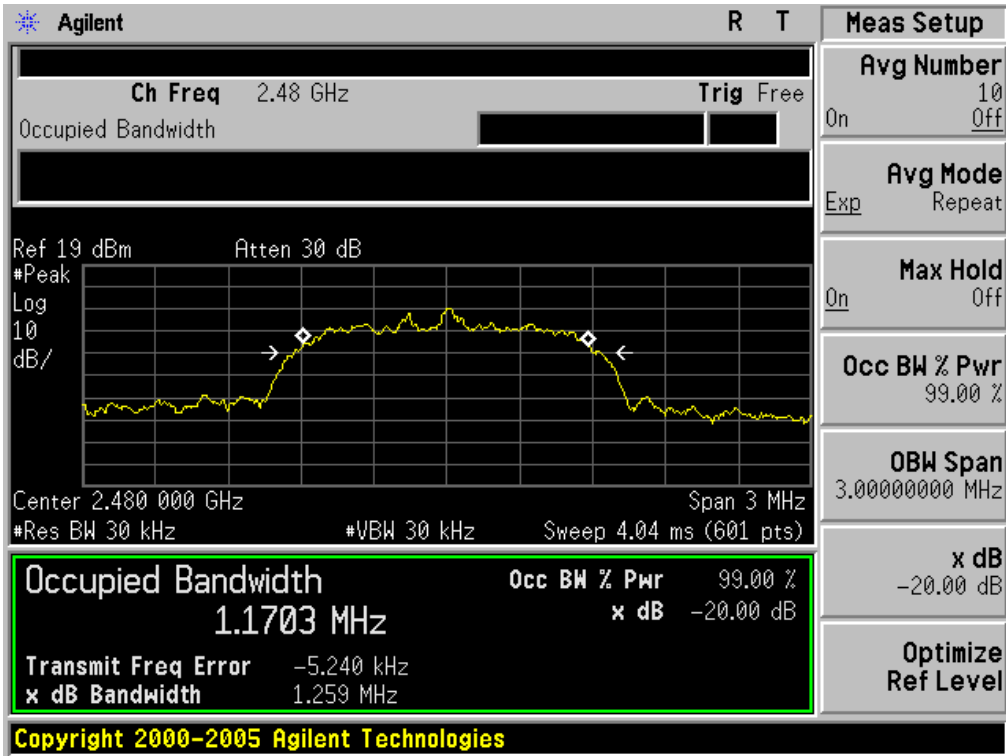
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

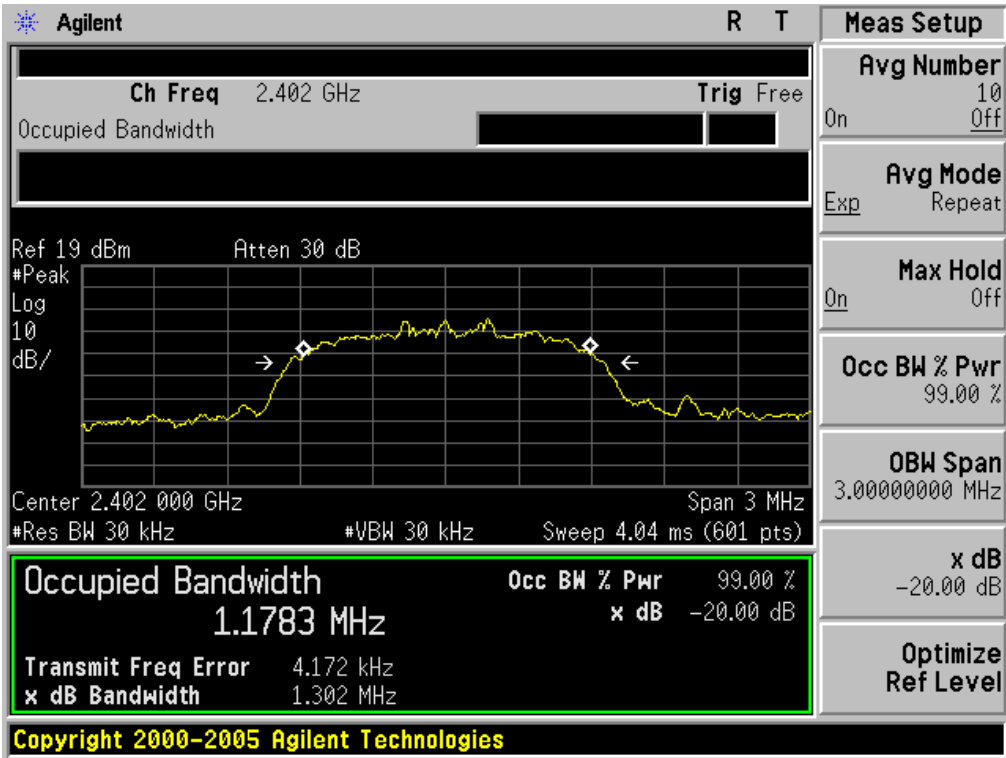


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

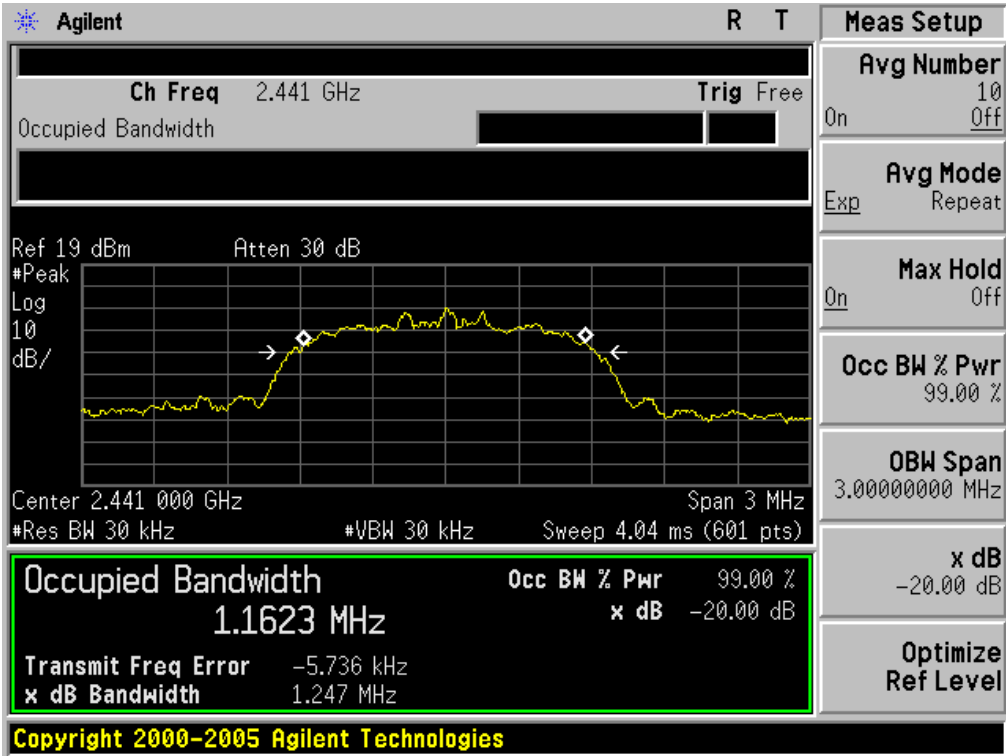


BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.302	PASS
	Middle Channel	1.247	PASS
	High Channel	1.265	PASS

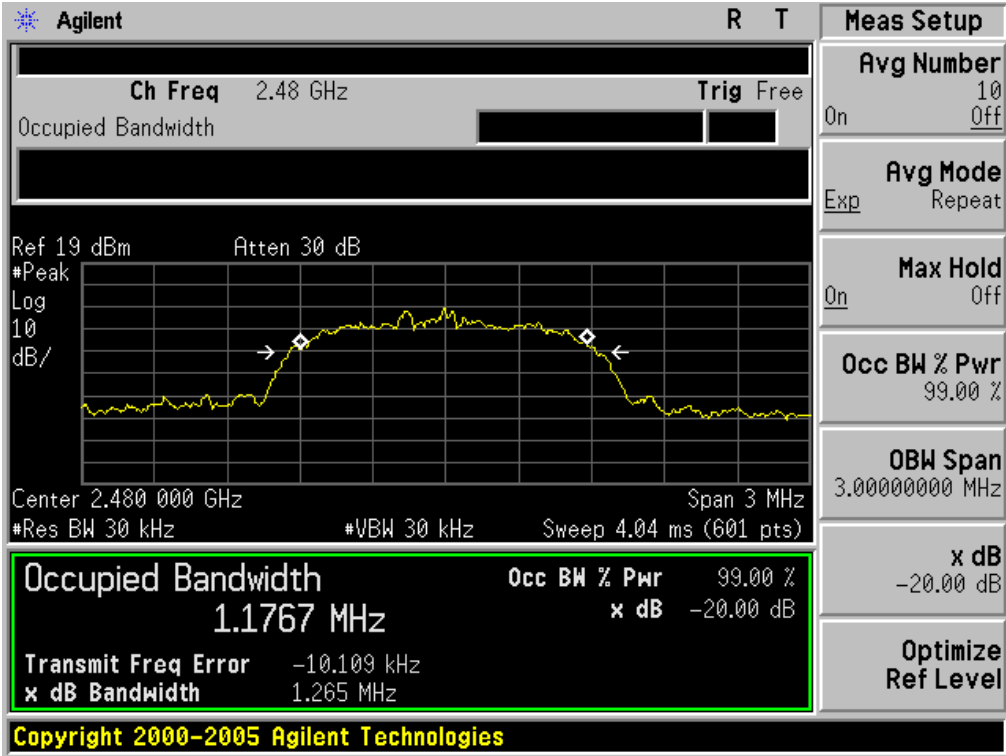
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

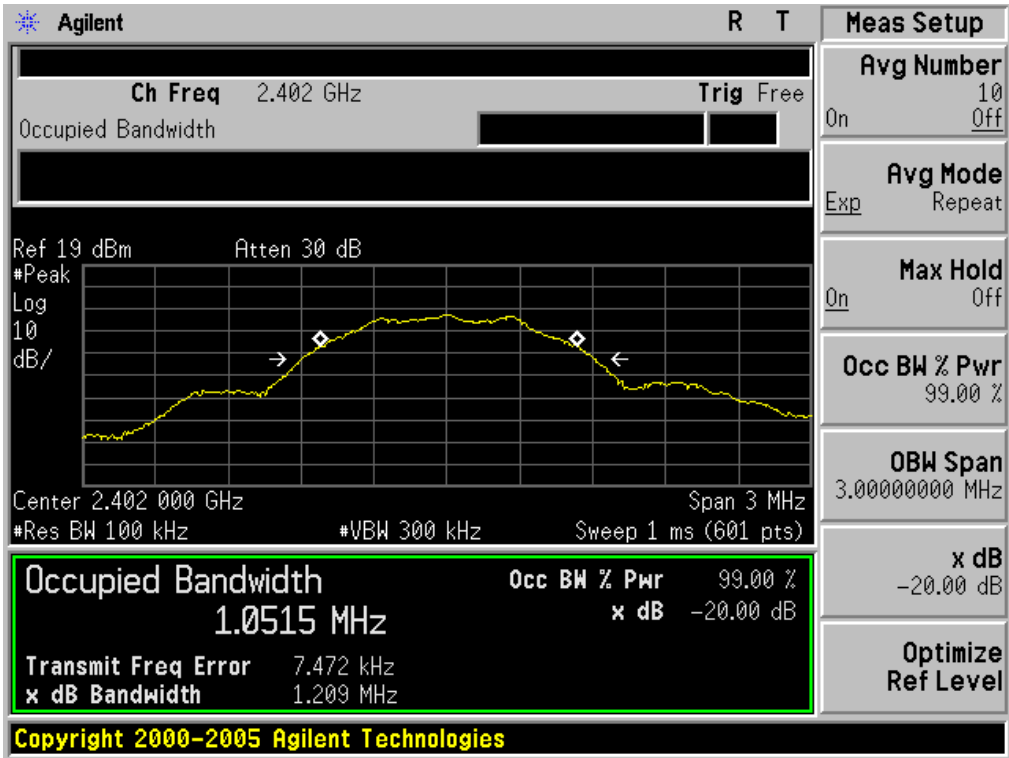




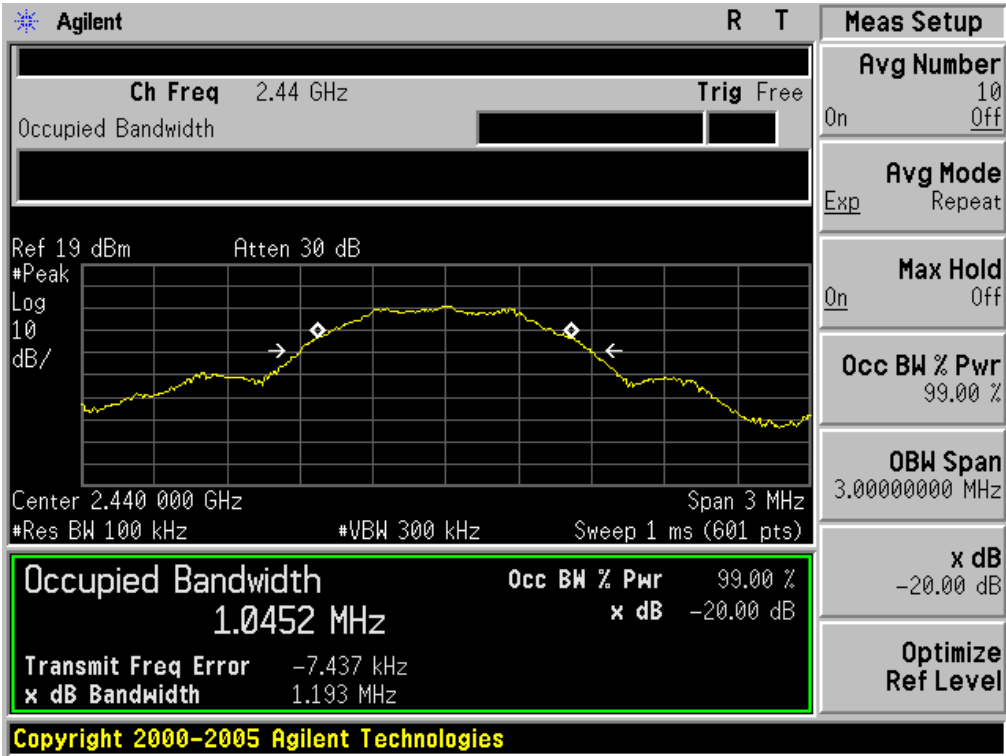
FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.209	PASS
	Middle Channel	1.193	PASS
	High Channel	1.210	PASS

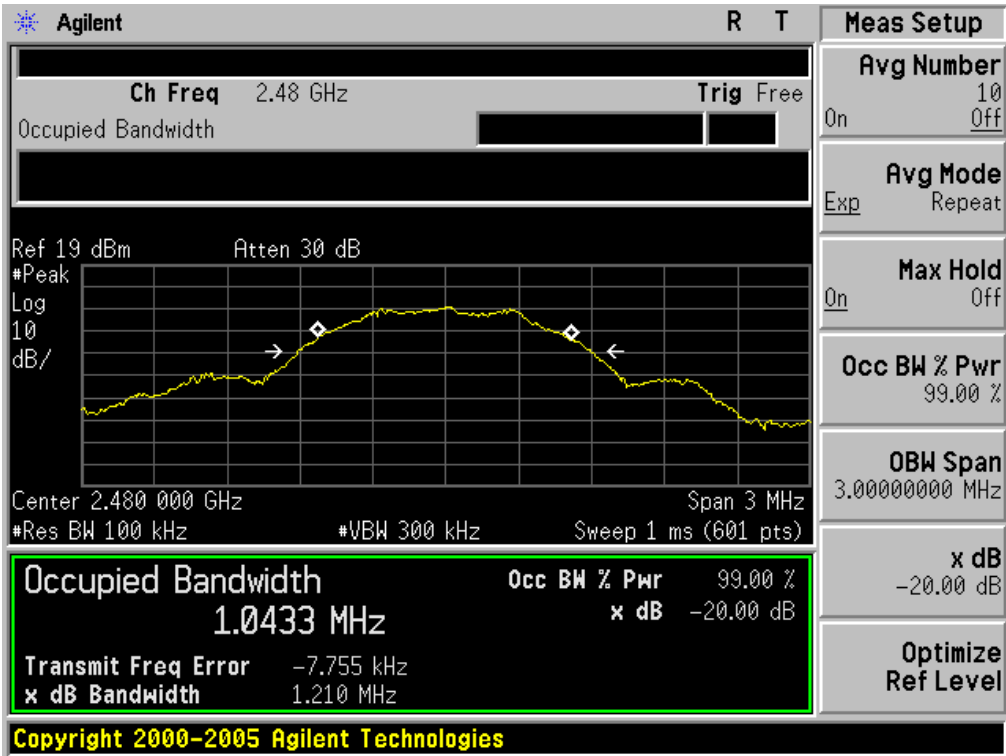
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



## 11. FCC LINE CONDUCTED EMISSION TEST

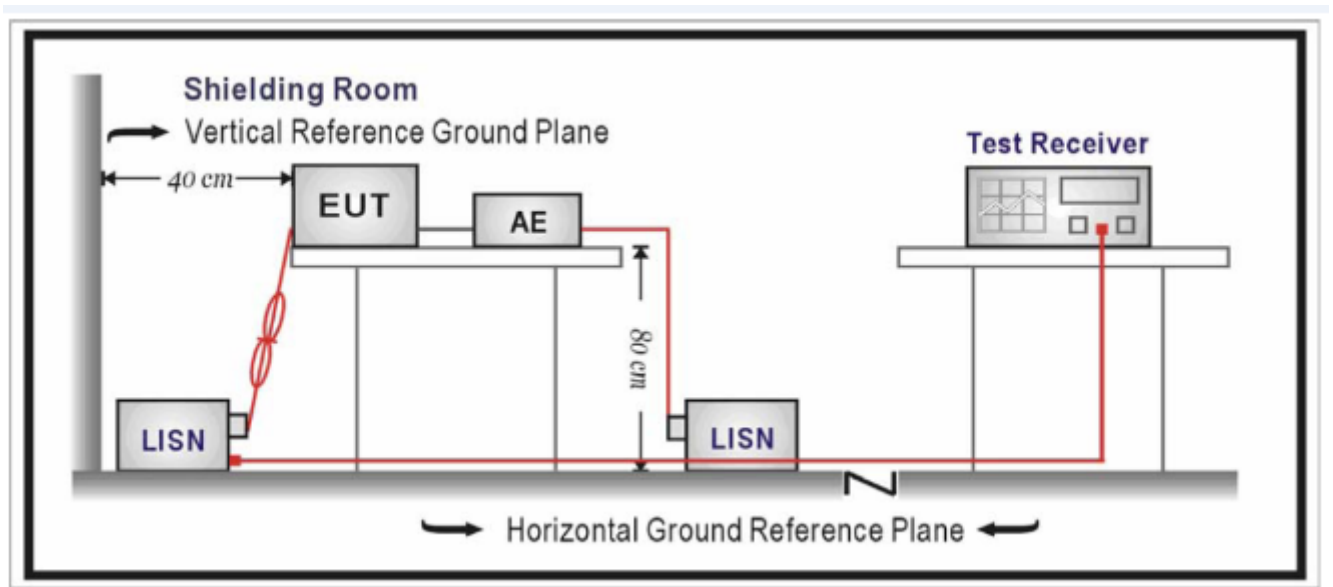
### 11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



### **11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by PC which received 120V/60Hz power by a LISN..
6. The 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.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

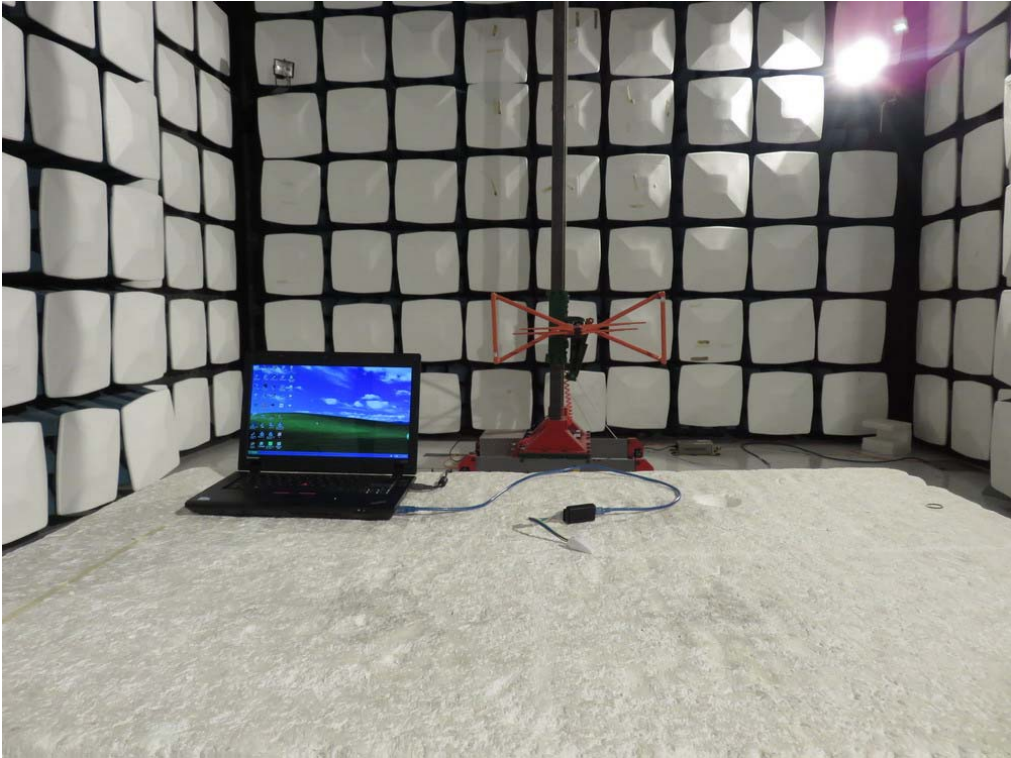
### **11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

### **11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST**

N/A

**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
FCC RADIATED EMISSION TEST SETUP

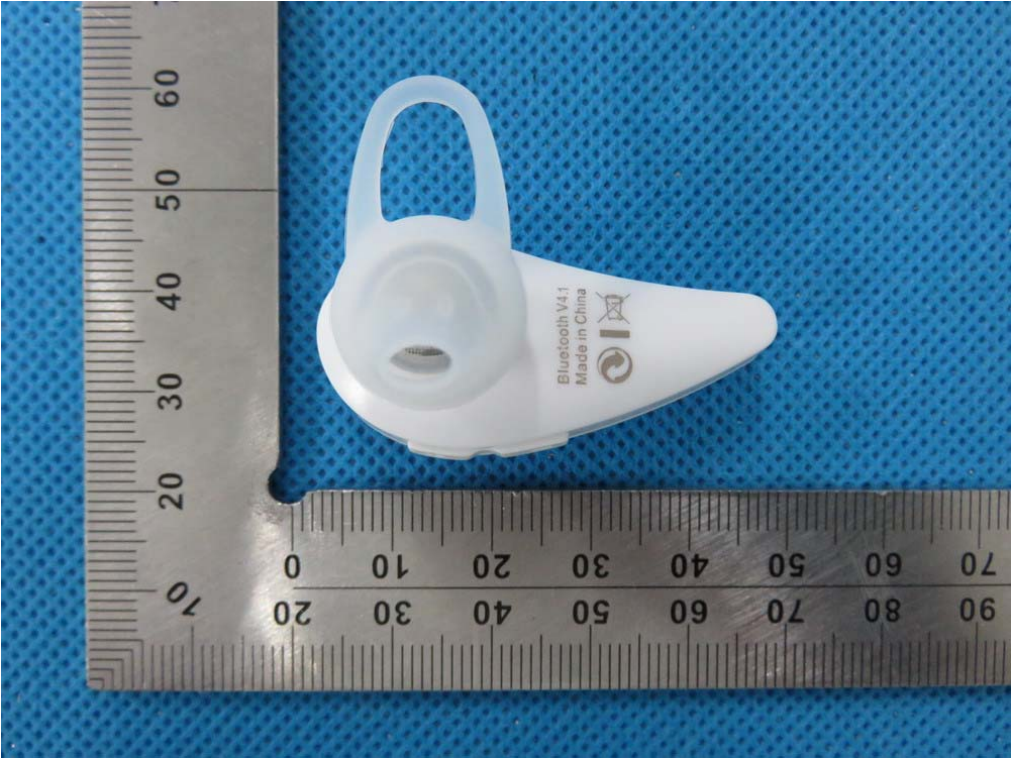




**APPENDIX B: PHOTOGRAPHS OF EUT**  
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT





LEFT VIEW OF EUT



RIGHT VIEW OF EUT





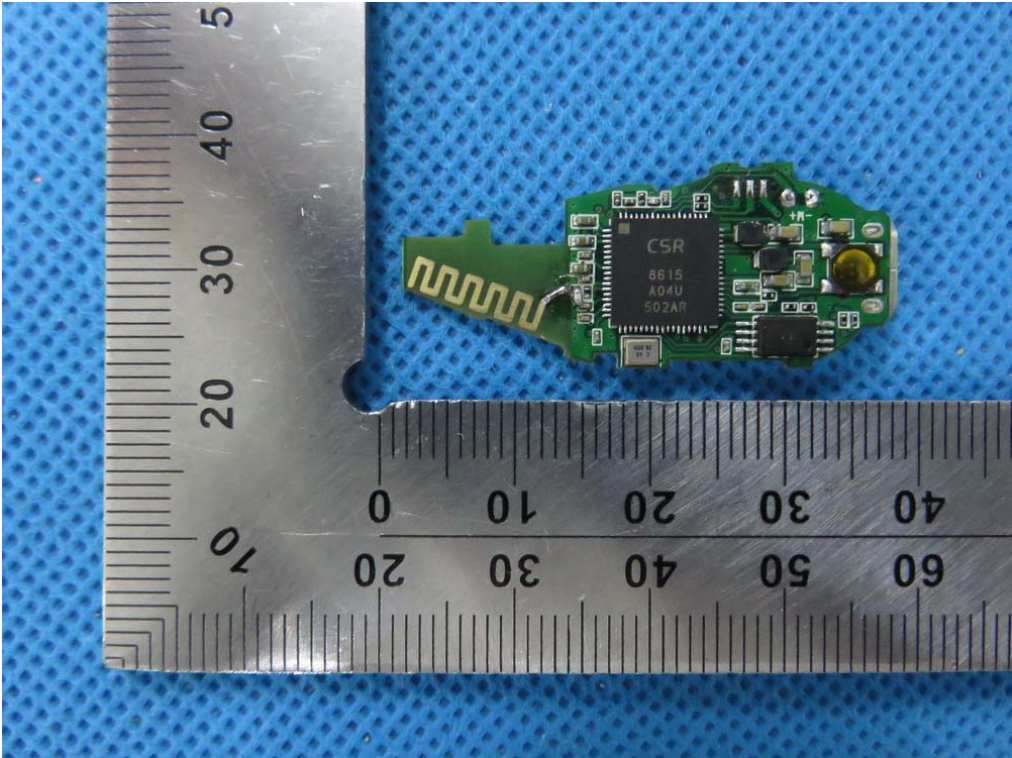
VIEW OF EUT (PORT)



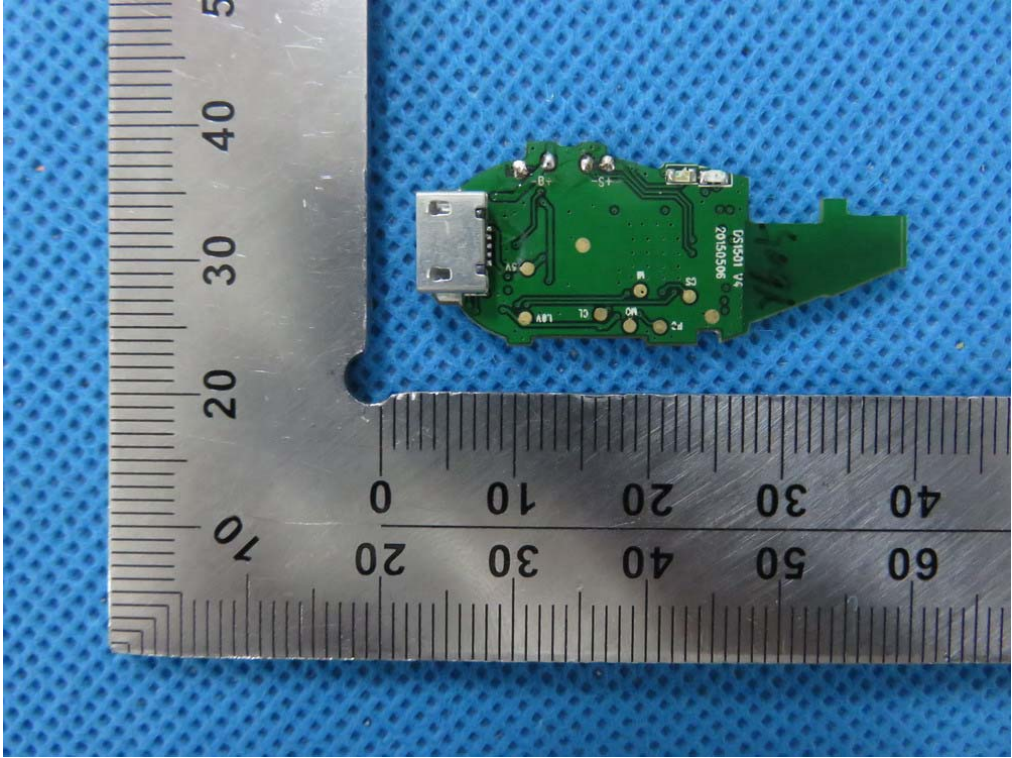
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1

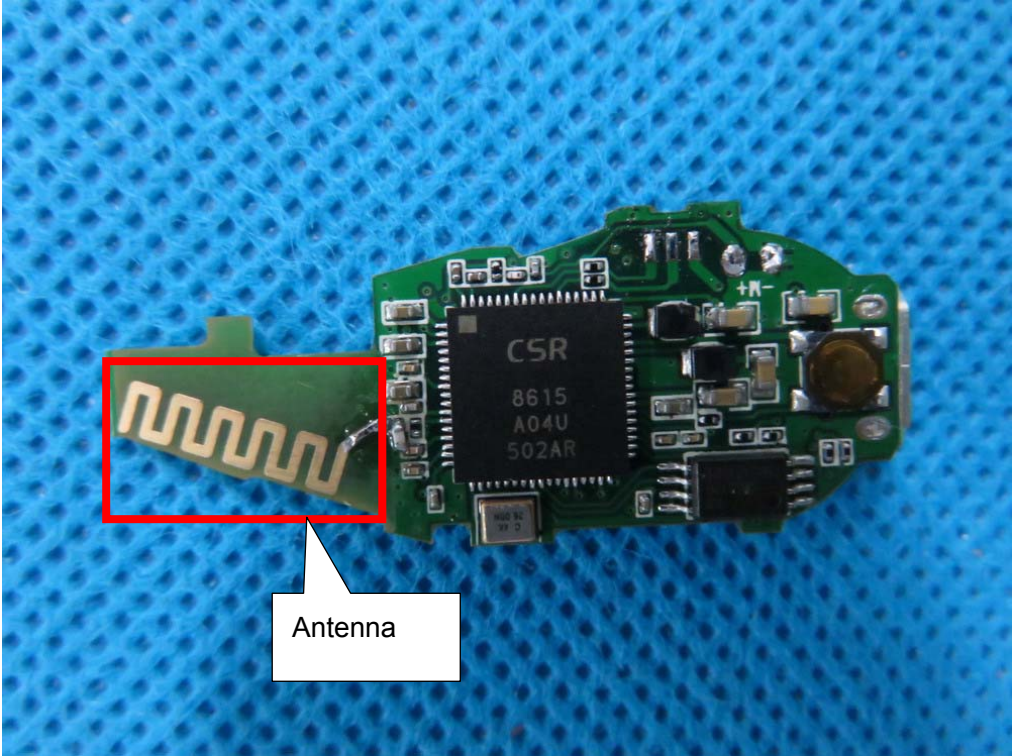


INTERNAL VIEW OF EUT-2





INTERNAL VIEW OF EUT-3



Antenna

----END OF REPORT----