

# FCC Radio Test Report

## FCC ID: YDB-SNOMD765

This report concerns (check one): Original Grant Class II Change

**Project No.** : 1506143  
**Equipment** : VoIP Phone  
**Model Name** : D765, snom D765, snom 765, 765  
**Applicant for** : Snom technology AG  
**Address for** : Wittestr. 30 G, Berlin, Germany 13509.

**Date of Receipt** : Jun. 24, 2015  
**Date of Test** : Jun. 24, 2015 ~ Sep. 02, 2015  
**Issued Date** : Sep. 07, 2015  
**Tested by** : BTL Inc.

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## **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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## REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1506143	Original Issue.	Sep. 07, 2015

## 1. CERTIFICATION

Equipment	: VoIP Phone
Brand Name	: Snom
Model Name	: D765, snom D765, snom 765, 765
Applicant	: Snom technology AG
Manufacturer	: SERCOMM CORP
Address	: 3F 81 YUYI RD CHU-NAN MIAO-LI, 350 TAIWAN
Factory	: SERCOMM CORP
Address	: 3F 81 YUYI RD CHU-NAN MIAO-LI, 350 TAIWAN
Date of Test	: Jun. 24, 2015 ~ Sep. 02, 2015
Standard(s)	: FCC Part15, Subpart C :2014 (15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1506143) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2014;				
Standard(s)	Section	Test Item	Judgment	Remark
	15.207	Conducted Emission	PASS	
	15.247(d)	Antenna conducted Spurious Emission	PASS	
	15.247(a)(2)	6dB Bandwidth	PASS	
	15.247(b)(3)	Peak Output Power	PASS	
	15.247(e)	Power Spectral Density	PASS	
	15.203	Antenna Requirement	PASS	
	15.209/15.205	Transmitter Radiated Emissions	PASS	

### NOTE:

(1)" N/A" denotes test is not applicable to this device.

### 2.1 TEST FACILITY

#### Conducted emission Test:

**C05:** (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)  
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

#### Radiated emission Test (Below 1 GHz):

**CB08:** (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)  
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

#### Radiated emission Test (Above 1 GHz):

**CB08:** (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)  
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

## 2.2 MEASUREMENT UNCERTAINTY

**The measurement uncertainty is not specified by FCC rules and Canada Industury for reference only.**

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%.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cisp}$  requirement.

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)	Note
C05	CISPR	150 kHz ~ 30MHz	2.04	

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)	Note
CB08 (3m)	CISPR	9kHz ~ 150kHz	4.00	
		150kHz ~ 30MHz	4.00	

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
CB08 (3m)	CISPR	30MHz ~ 200MHz	V	3.06	
		30MHz ~ 200MHz	H	2.58	
		200MHz ~ 1,000MHz	V	3.50	
		200MHz ~ 1,000MHz	H	3.10	

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
CB08 (3m)	CISPR	1GHz ~ 6GHz	V	4.14	
		1GHz ~ 6GHz	H	4.14	
		6GHz ~ 18GHz	V	5.34	
		6GHz ~ 18GHz	H	5.34	

Test Site	Method	Measurement Frequency Range	U, (dB)	Note
CB08 (3m)	CISPR	18 ~ 26.5 GHz	4.66	
		26.5 ~ 40 GHz	4.74	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our  $U_{lab}$  values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called  $U_{CISPR}$ , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our  $U_{lab}$  values are smaller than  $U_{CISPR}$ .

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	VoIP Phone	
Brand Name	Snom	
Model Name	D765, snom D765, snom 765, 765	
Model Difference	Only differ in model name due to marketing purpose.	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Output Power (Max.)	6.98 dBm (1Mbps)
Power Source	#1 DC Voltage supplied from AC/DC adapter (support unit). #2 Supplied from PoE.	
Power Rating	#1 I/P: AC 100-240V 0.3A 50-60Hz 23-32VA O/P: DC 5V 2.0A #2 DC 48V	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2.

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

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	 Advanced Ceramic X	AT8010 -E2R9HAA	Chip	N/A	2.50	

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode <b>NOTE (1)</b>
Mode 2	Bluetooth

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 2	Bluetooth

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode <b>NOTE (1)</b>

Note:

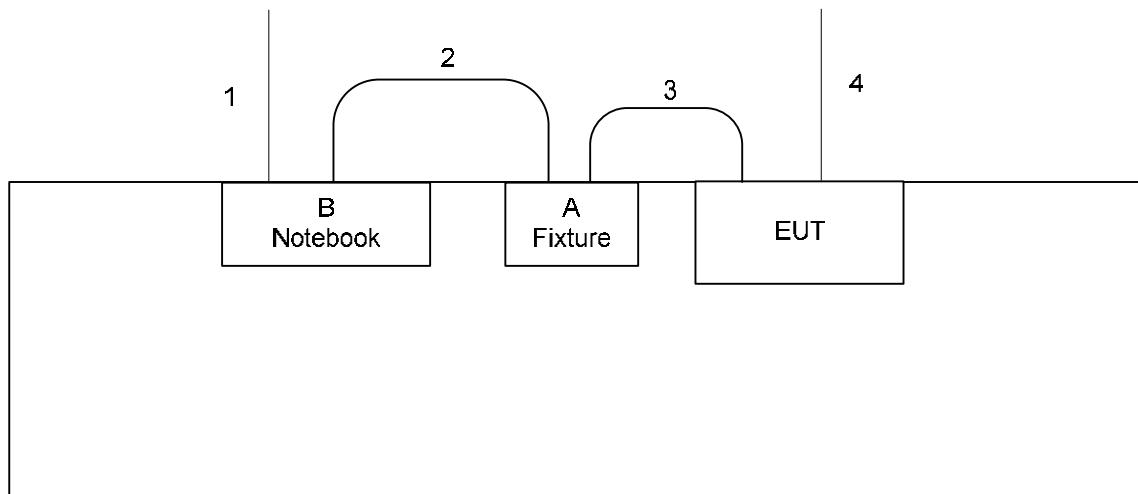
(1) The measurements are performed at the high, middle, low available channels.

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test Software Version	Terminal		
Frequency (MHz)	2402	2440	2480
BT LE	1	1	1

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	Fixture	N/A	N/A	N/A	N/A	N/A
B	Notebook	ASUS	X450J	DOC	E8N0WU31377235F	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	YES	1.5m	Power Line
2	YES	NO	1.8m	USB To RS-232 Cable
3	NO	NO	0.3m	Control Cable
4	NO	NO	1.3m	Power Line

Note:

(1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " \* " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

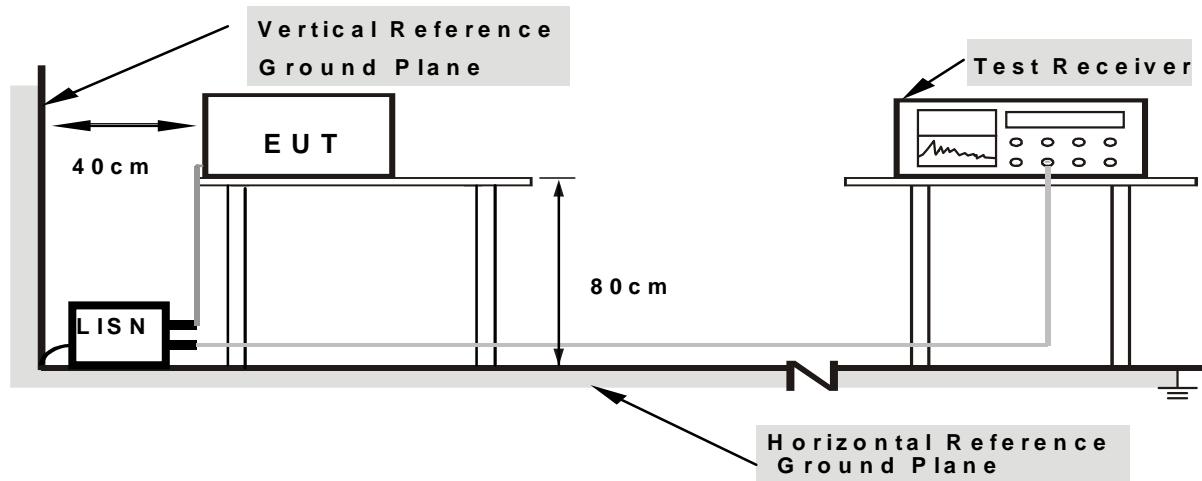
#### 4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: 26°C

Relative Humidity: 59%

Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of «Note». If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) “N/A” denotes test is not applicable to this device.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  

$$\text{Measurement Value} = \text{Reading Level} + \text{Correct Factor}$$
  

$$\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain(if use)}$$
  

$$\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}$$

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### 4.2.2 TEST PROCEDURE

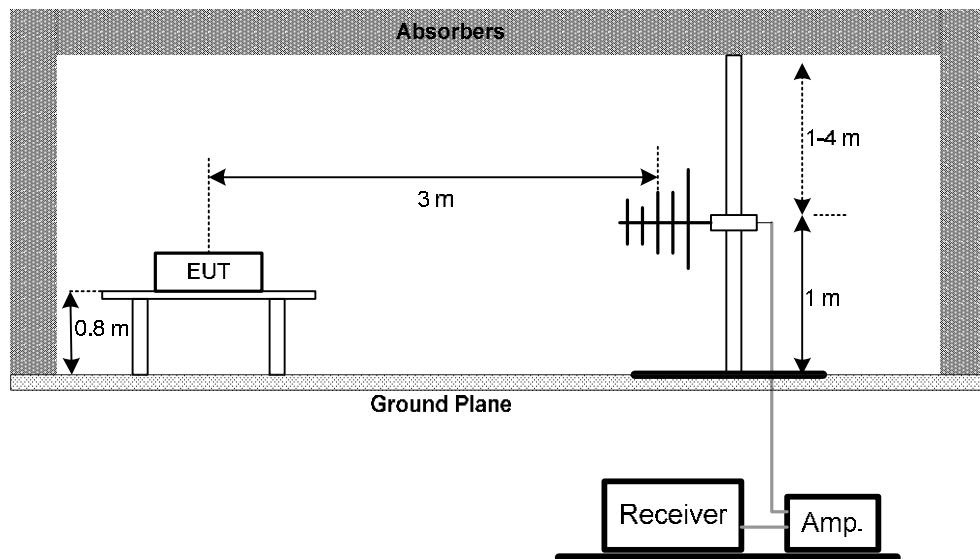
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

#### 4.2.3 DEVIATION FROM TEST STANDARD

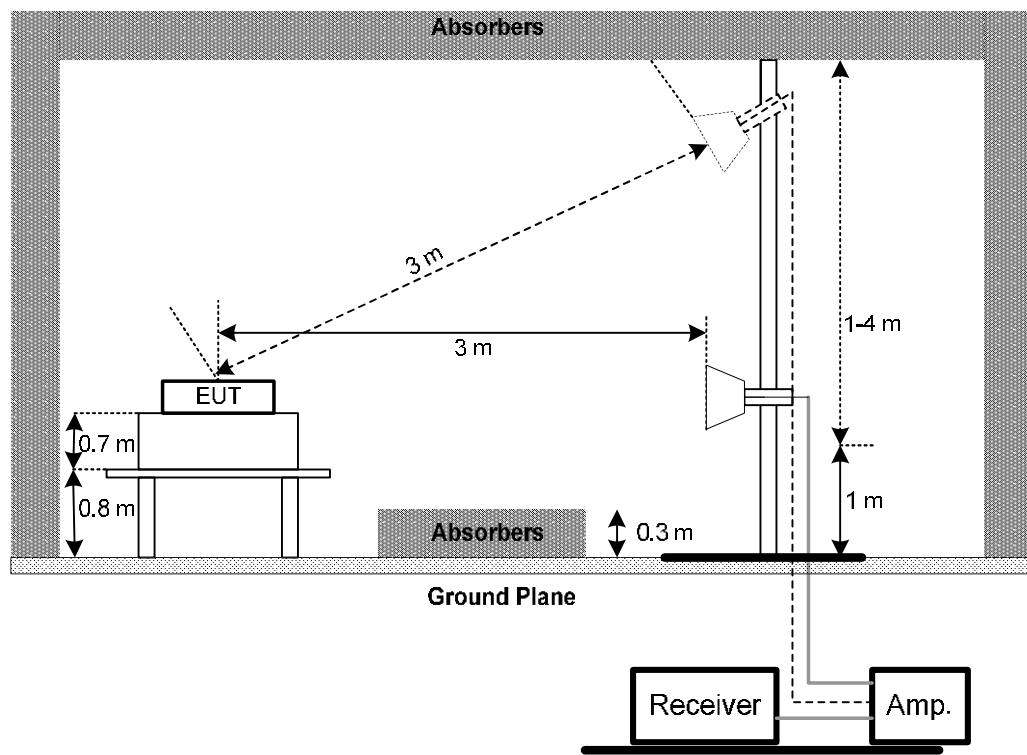
No deviation

#### 4.2.4 TEST SETUP

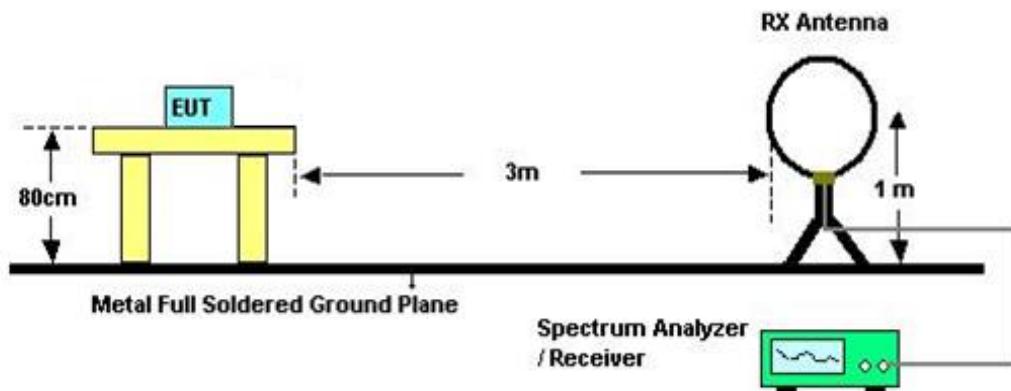
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



##### (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 24°C

Relative Humidity: 60%

Test Voltage: AC 120V/60Hz

#### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

**4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)**

**Please refer to the Attachment C.**

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz.
- (3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

**4.2.9 TEST RESULTS (ABOVE 1000 MHZ)**

**Please refer to the Attachment D.**

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (6) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH TEST

### 5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

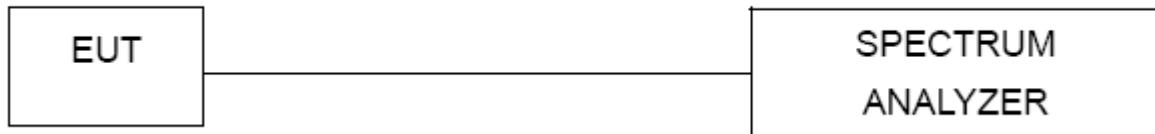
#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.1.5 EUT TEST CONDITIONS

Temperature: 25°C  
 Relative Humidity: 55%  
 Test Voltage: AC 120V/60Hz

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

#### 6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

#### 6.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+ cable loss

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

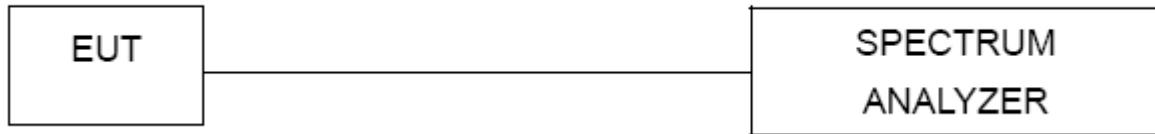
#### 8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 8.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101050	Nov. 24, 2015
2	Test Cable	TIMES	CFD300-NL	C01	Jun. 16, 2016
3	EMI Test Receiver	R&S	ESCI	100082	Apr. 14, 2016
4	Measurement Software	EZ	EZ_EMC (Version NB-02A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Jun. 15, 2016
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2016
4	Microflex Cable	Harbour industries	27478LL142	1m	May 13, 2016
5	Microflex Cable	EMC	S104-SMA	8m	May 15, 2016
6	Microflex Cable	Harbour industries	27478LL142	3m	May 13, 2016
7	Test Cable	LMR	LMR-400	12m	May 14, 2016
8	Test Cable	LMR	LMR-400	3m	May 14, 2016
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2016
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	July. 11, 2016
11	Loop Antenna	EMCO	6502	00042960	Nov. 07, 2016

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

**Antenna Conducted Spurious Emission Measurement**

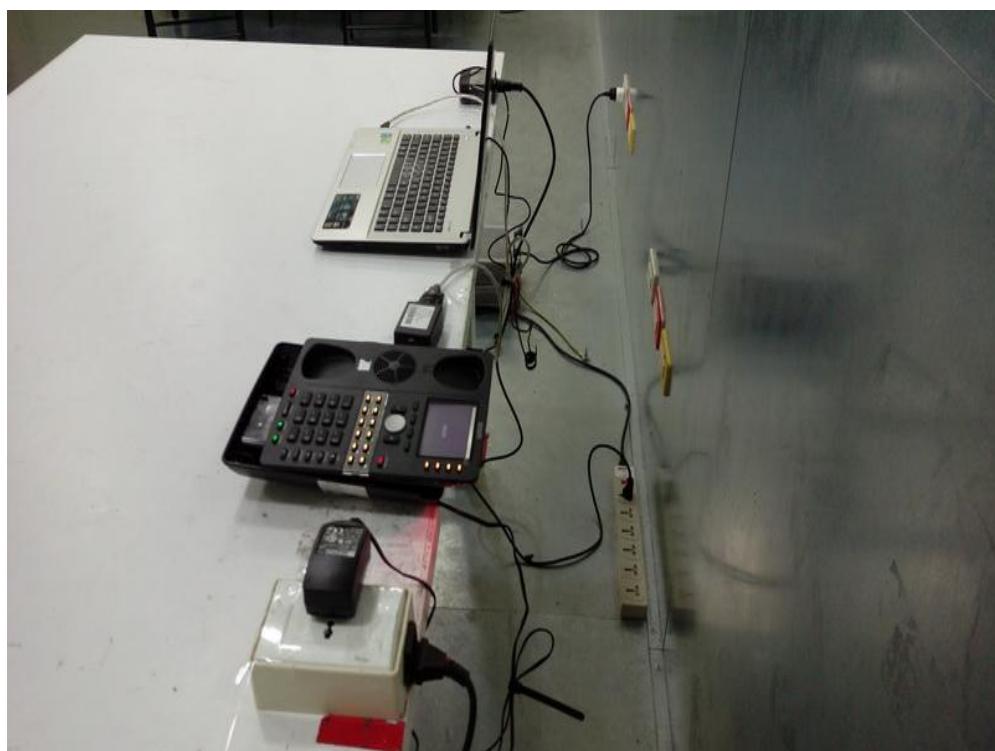
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

**Power Spectral Density Measurement**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

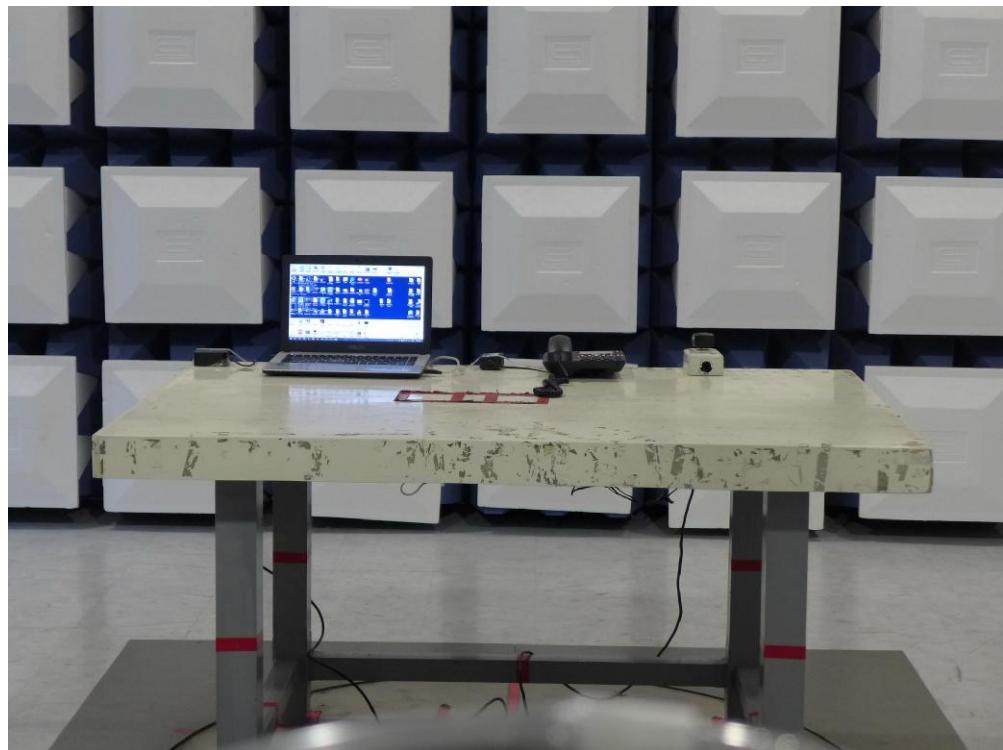
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

**10. EUT TEST PHOTO****Conducted Measurement Photos**

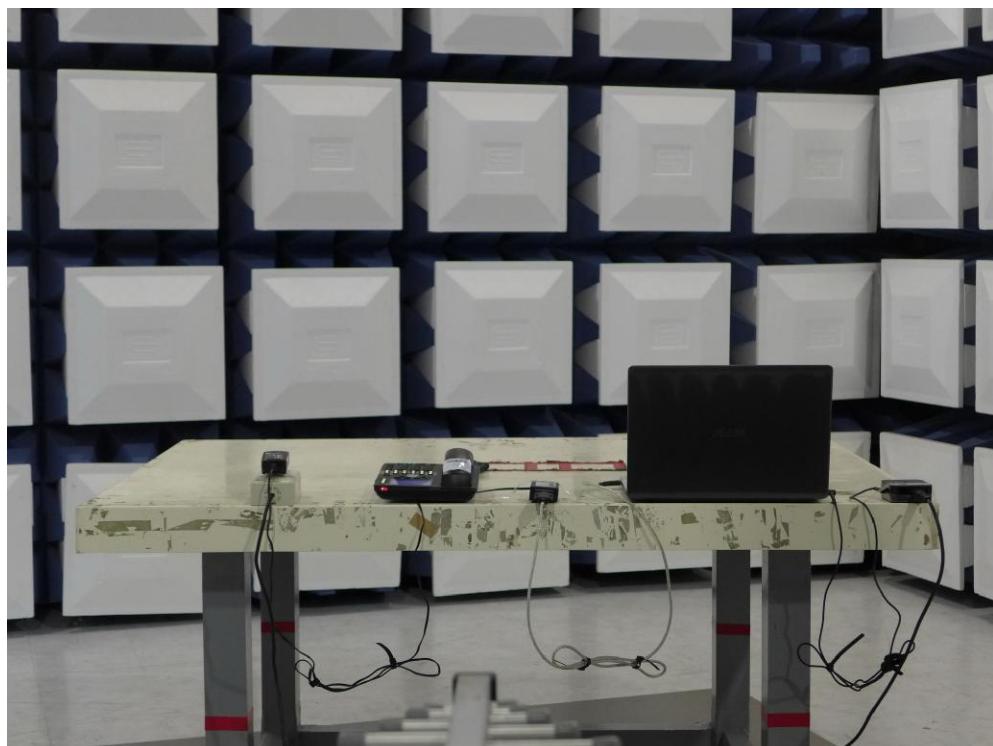
## Radiated Measurement Photos

**9K-30MHz**



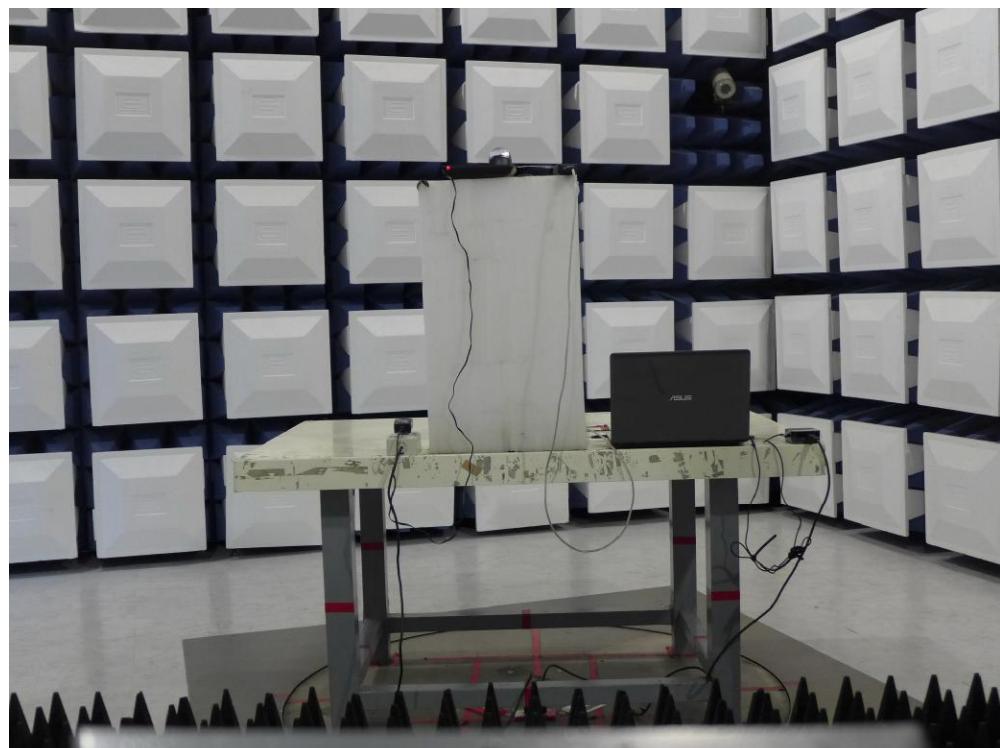
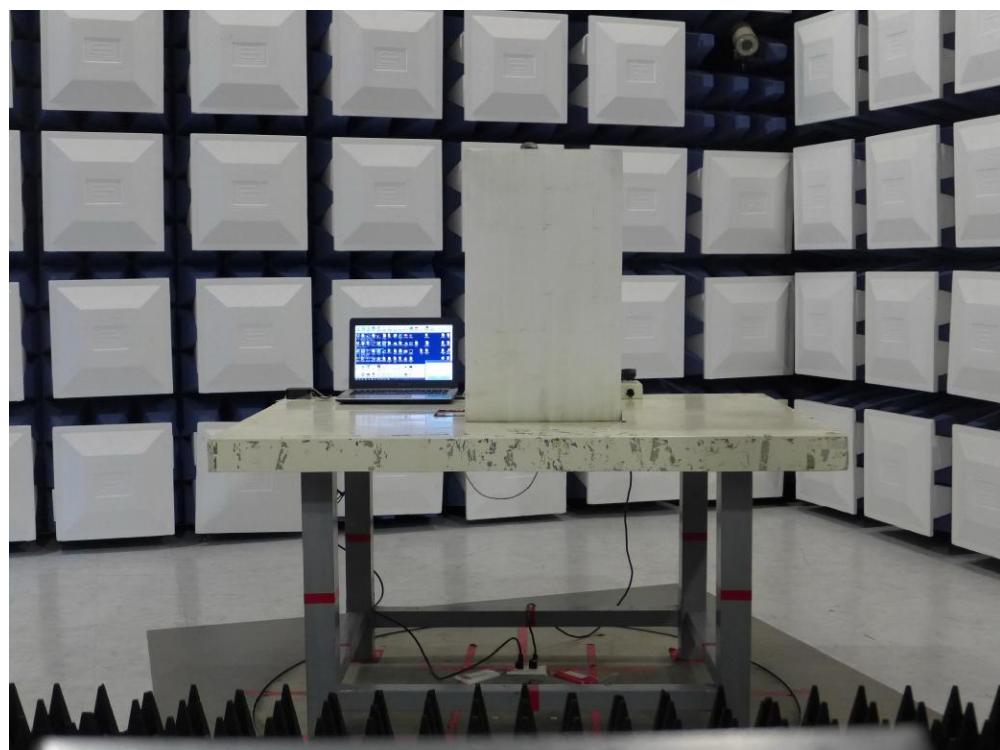
## Radiated Measurement Photos

**30MHz-1G**



## Radiated Measurement Photos

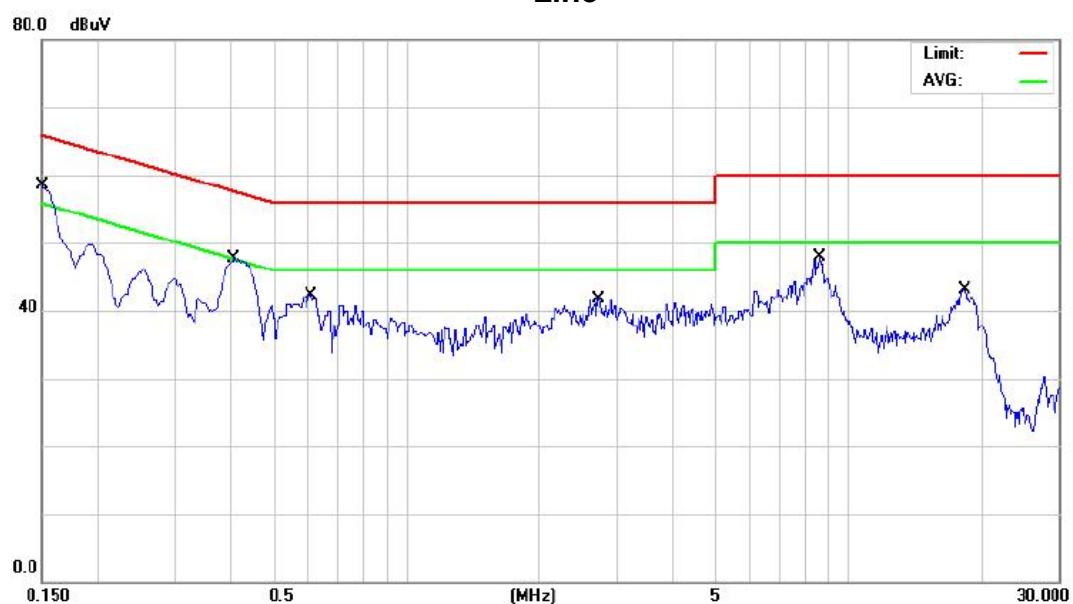
**Above 1G**



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode: Bluetooth

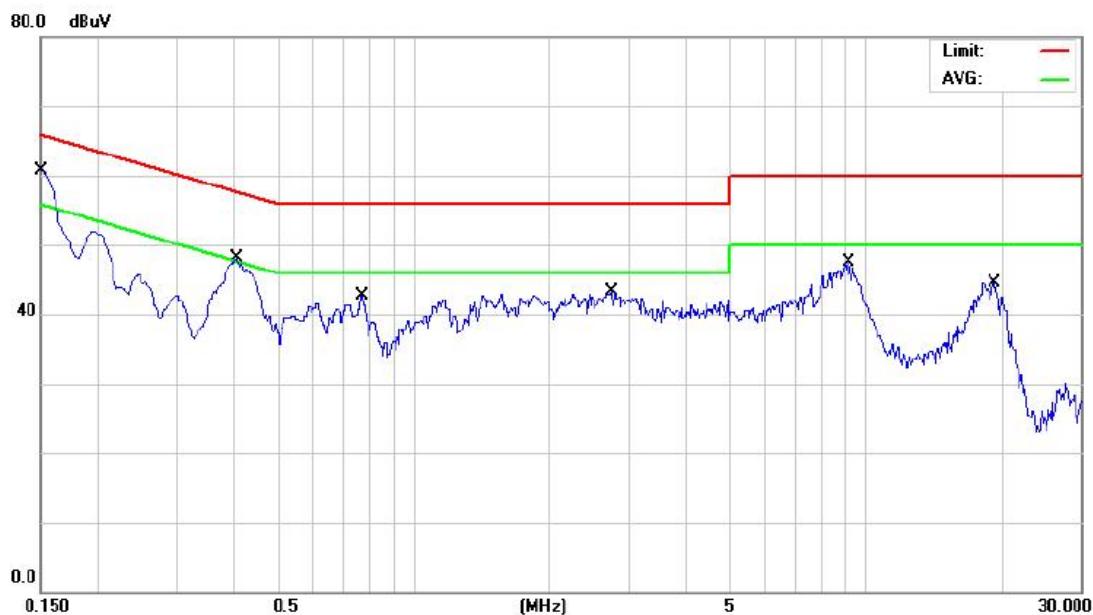
## Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1500	46.90	9.64	56.54	65.99	-9.45	QP	
2	*	0.1500	38.40	9.64	48.04	55.99	-7.95	AVG	
3		0.4083	32.90	9.63	42.53	57.68	-15.15	QP	
4		0.4083	28.20	9.63	37.83	47.68	-9.85	AVG	
5		0.6080	29.20	9.64	38.84	56.00	-17.16	QP	
6		0.6080	24.10	9.64	33.74	46.00	-12.26	AVG	
7		2.7139	26.40	9.76	36.16	56.00	-19.84	QP	
8		2.7139	19.90	9.76	29.66	46.00	-16.34	AVG	
9		8.6000	30.40	9.90	40.30	60.00	-19.70	QP	
10		8.6000	24.10	9.90	34.00	50.00	-16.00	AVG	
11		18.2500	29.60	9.84	39.44	60.00	-20.56	QP	
12		18.2500	24.90	9.84	34.74	50.00	-15.26	AVG	

Test Mode: Bluetooth

### Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV	dB		
1		0.1507	48.10	9.63	57.73	65.96	-8.23	QP	
2	*	0.1507	39.40	9.63	49.03	55.96	-6.93	AVG	
3		0.4048	32.30	9.64	41.94	57.75	-15.81	QP	
4		0.4048	27.30	9.64	36.94	47.75	-10.81	AVG	
5		0.7700	26.00	9.66	35.66	56.00	-20.34	QP	
6		0.7700	17.80	9.66	27.46	46.00	-18.54	AVG	
7		2.7410	27.60	9.75	37.35	56.00	-18.65	QP	
8		2.7410	21.60	9.75	31.35	46.00	-14.65	AVG	
9		9.2000	31.20	9.91	41.11	60.00	-18.89	QP	
10		9.2000	25.00	9.91	34.91	50.00	-15.09	AVG	
11		19.1500	30.50	9.86	40.36	60.00	-19.64	QP	
12		19.1500	26.70	9.86	36.56	50.00	-13.44	AVG	

## ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX Mode
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Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0155	0°	32.25	22.26	54.51	103.80	-49.29	AVG
0.0155	0°	42.82	22.26	65.08	123.80	-58.72	PK
0.0258	0°	30.54	22.01	52.55	99.37	-46.83	AVG
0.0258	0°	34.15	22.01	56.16	119.37	-63.22	PK
0.0439	0°	27.00	21.55	48.55	94.75	-46.20	AVG
0.0439	0°	35.00	21.55	56.55	114.75	-58.20	PK
0.0680	0°	34.18	21.11	55.29	110.95	-55.66	PK
1.2500	0°	34.82	20.35	55.17	65.67	-10.50	QP
1.6200	0°	36.53	19.98	56.51	63.41	-6.91	QP

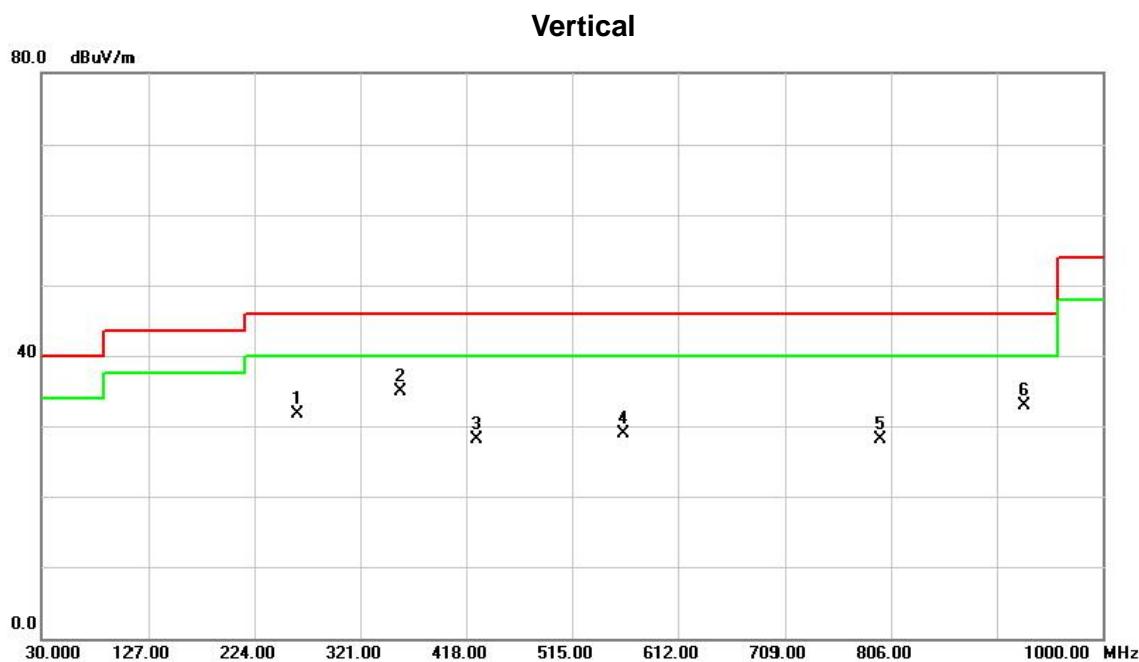
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0159	90°	33.21	22.25	55.46	103.58	-48.11	AVG
0.0159	90°	44.15	22.25	66.40	123.58	-57.17	PK
0.0269	90°	27.82	21.98	49.80	99.01	-49.21	AVG
0.0269	90°	33.62	21.98	55.60	119.01	-63.41	PK
0.0520	90°	27.15	21.37	48.52	93.28	-44.77	AVG
0.0520	90°	33.85	21.37	55.22	113.28	-58.07	PK
0.0623	90°	35.61	21.20	56.81	111.71	-54.90	PK
1.2690	90°	33.25	20.33	53.58	65.53	-11.95	QP
1.9500	90°	33.18	19.65	52.83	69.54	-16.71	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

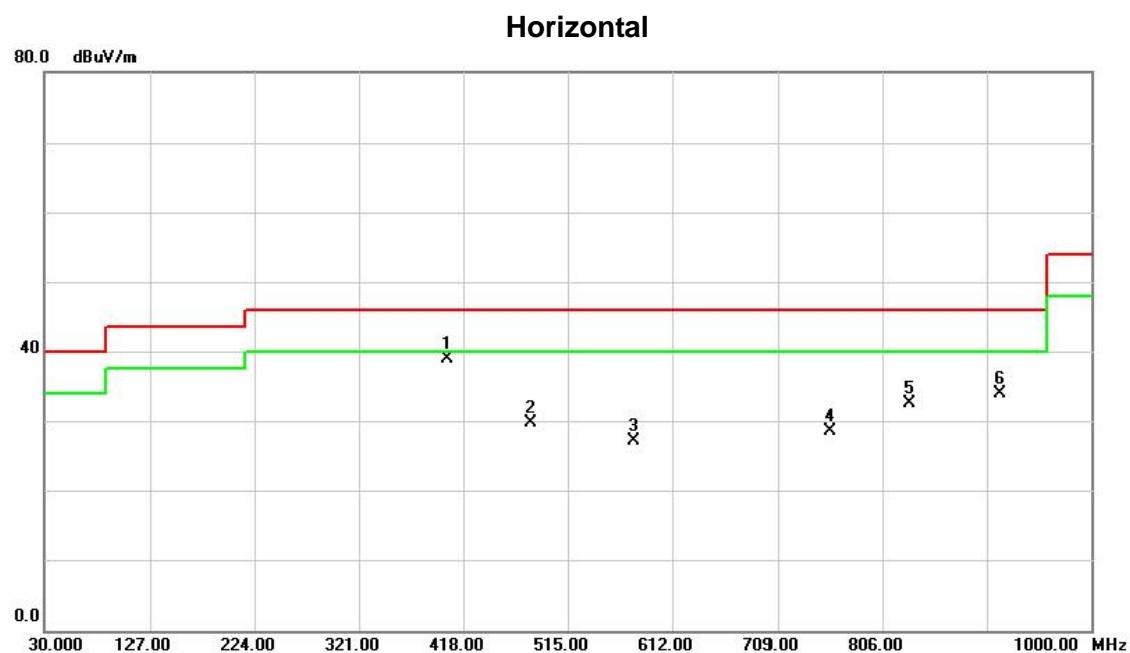
## ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX 2440MHz -CH19 -1Mbps



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		263.7700	44.26	-12.58	31.68	46.00	-14.32	peak
2	*	357.8600	45.24	-10.28	34.96	46.00	-11.04	peak
3		427.7000	37.44	-9.31	28.13	46.00	-17.87	peak
4		562.5300	36.36	-7.42	28.94	46.00	-17.06	peak
5		796.3000	31.51	-3.50	28.01	46.00	-17.99	peak
6		928.2200	34.09	-1.09	33.00	46.00	-13.00	peak

Test Mode: TX 2440MHz -CH19 -1Mbps

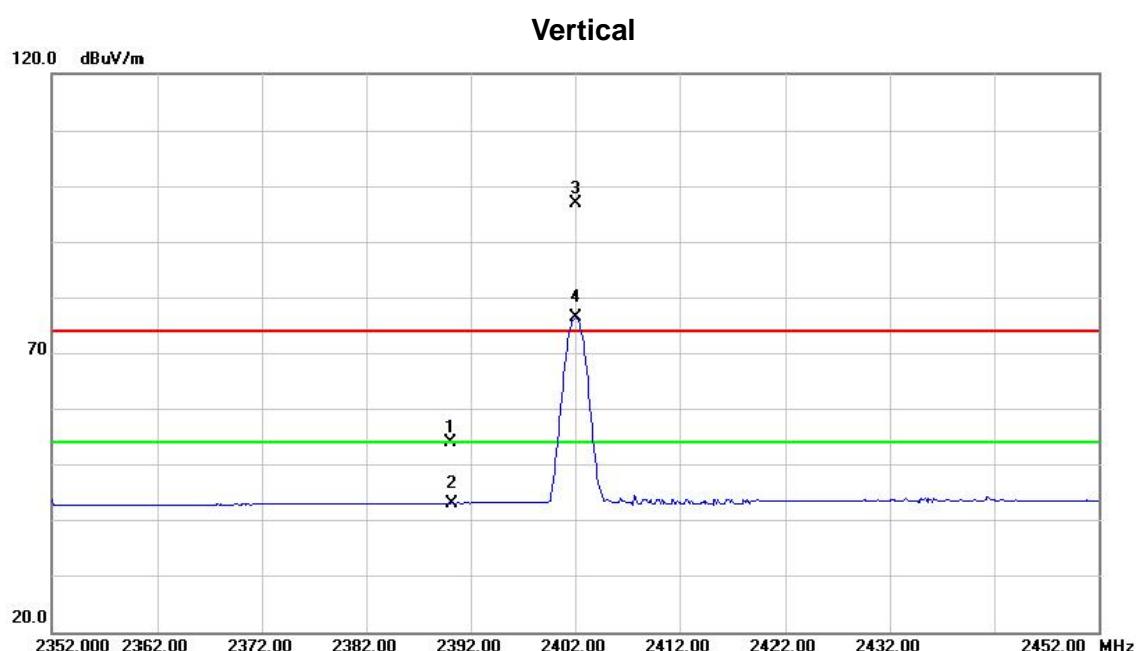


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	*	402.4800	48.63	-9.70	38.93	46.00	-7.07	peak	
2		480.0800	38.14	-8.53	29.61	46.00	-16.39	peak	
3		576.1100	34.29	-7.14	27.15	46.00	-18.85	peak	
4		757.5000	31.91	-3.44	28.47	46.00	-17.53	peak	
5		831.2200	35.31	-2.89	32.42	46.00	-13.58	peak	
6		915.6100	35.27	-1.27	34.00	46.00	-12.00	peak	

## ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis : X

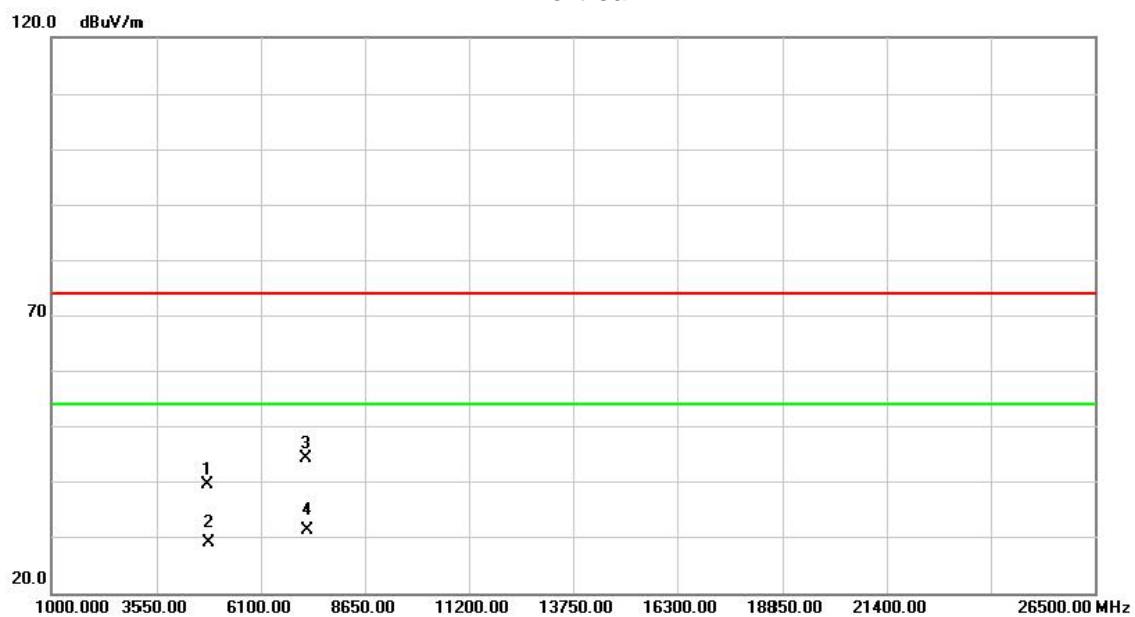
Test Mode : TX 2402MHz \_CH00\_1Mbps



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.42	30.56	53.98	74.00	-20.02	peak	
2		2390.000	12.41	30.56	42.97	54.00	-11.03	AVG	
3	*	2402.000	66.28	30.61	96.89	74.00	22.89	peak	NO Limit
4	X	2402.000	45.70	30.61	76.31	54.00	22.31	AVG	NO Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

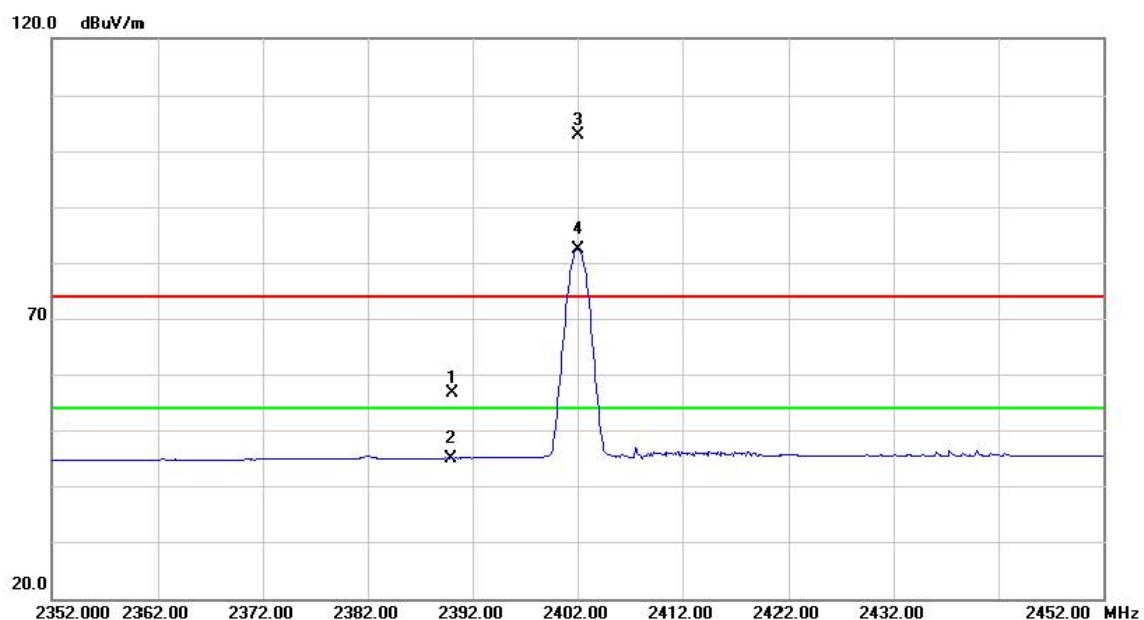
### Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dB		
1		4805.341	36.21	3.24	39.45	74.00	-34.55	peak	
2		4805.341	25.65	3.24	28.89	54.00	-25.11	AVG	
3		7204.152	35.67	8.39	44.06	74.00	-29.94	peak	
4	*	7204.152	22.77	8.39	31.16	54.00	-22.84	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

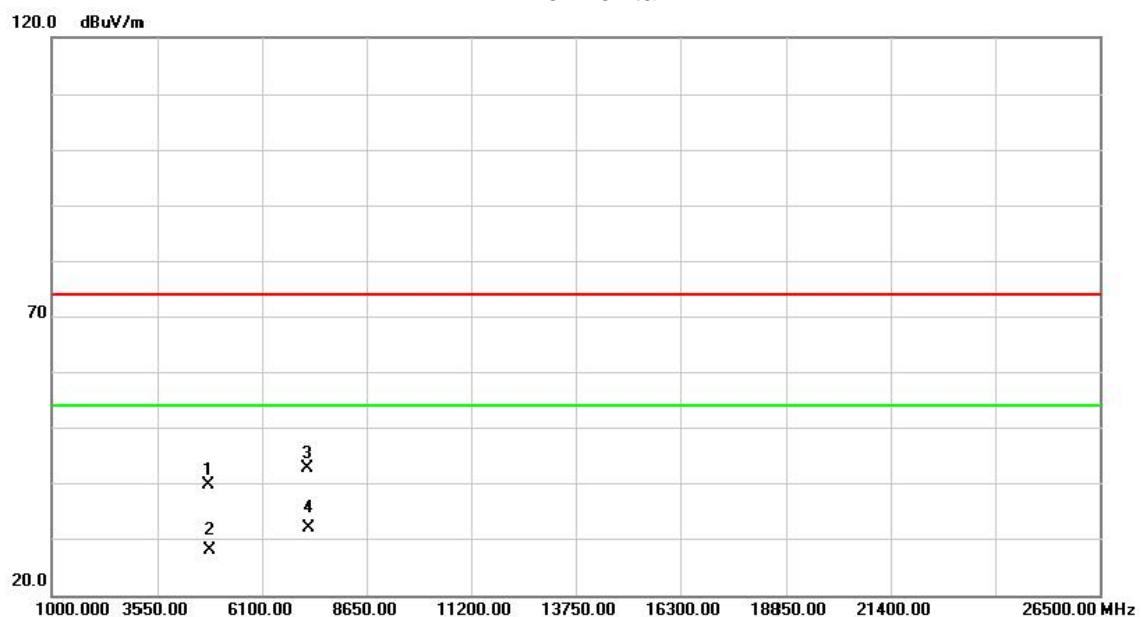
### Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dB <sub>UV</sub>	dB	dB <sub>UV</sub> /m	dB	Detector	
1		2390.000	26.17	30.56	56.73	74.00	-17.27	peak
2		2390.000	14.40	30.56	44.96	54.00	-9.04	AVG
3	*	2402.000	72.20	30.61	102.81	74.00	28.81	peak NO Limit
4	X	2402.000	51.72	30.61	82.33	54.00	28.33	AVG NO Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

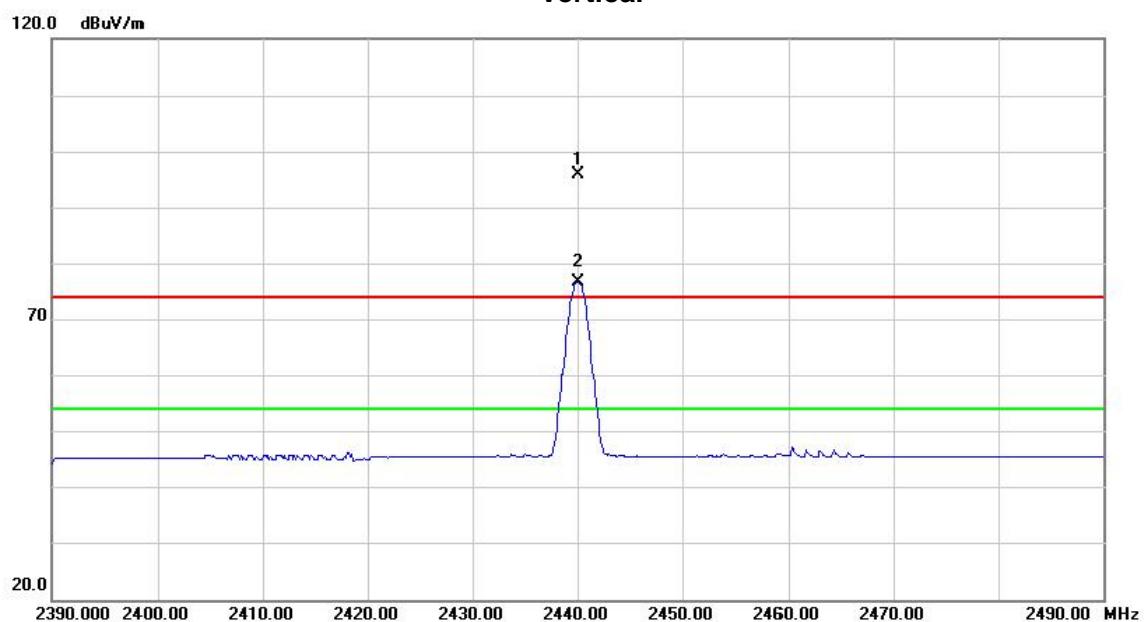
### Horizontal



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
			dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB		
1		4801.542	36.32	3.23	39.55	74.00	-34.45	peak	
2		4801.542	24.65	3.23	27.88	54.00	-26.12	AVG	
3		7203.352	34.33	8.39	42.72	74.00	-31.28	peak	
4	*	7203.352	23.54	8.39	31.93	54.00	-22.07	AVG	

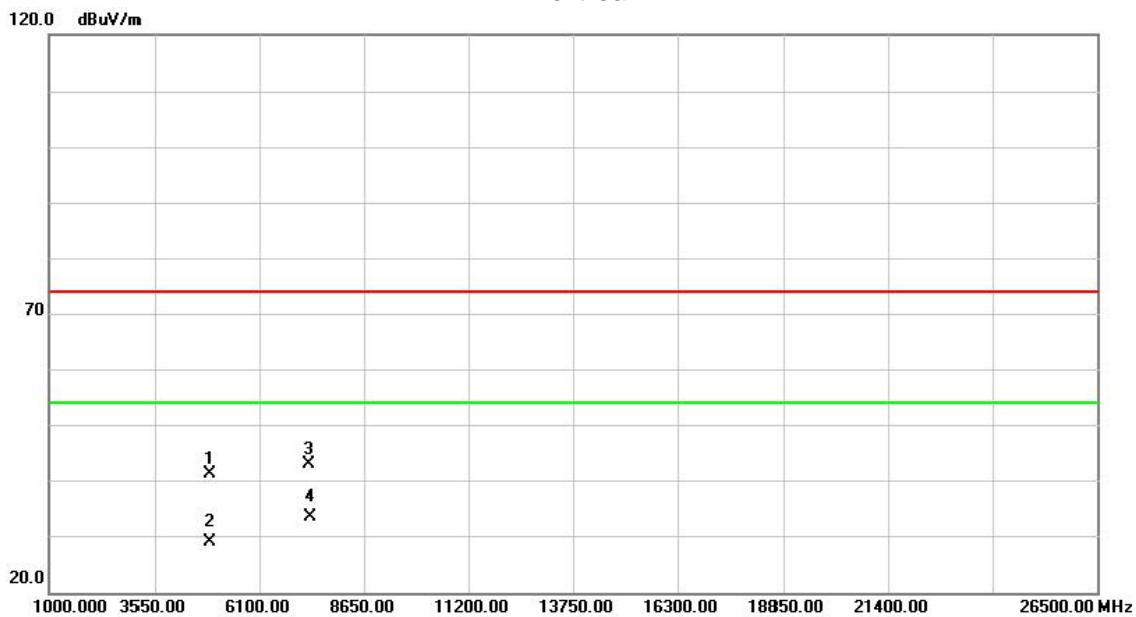
Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

### Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2440.000	65.26	30.72	95.98	74.00	21.98	peak NO Limit
2	*	2440.000	45.91	30.72	76.63	54.00	22.63	AVG NO Limit

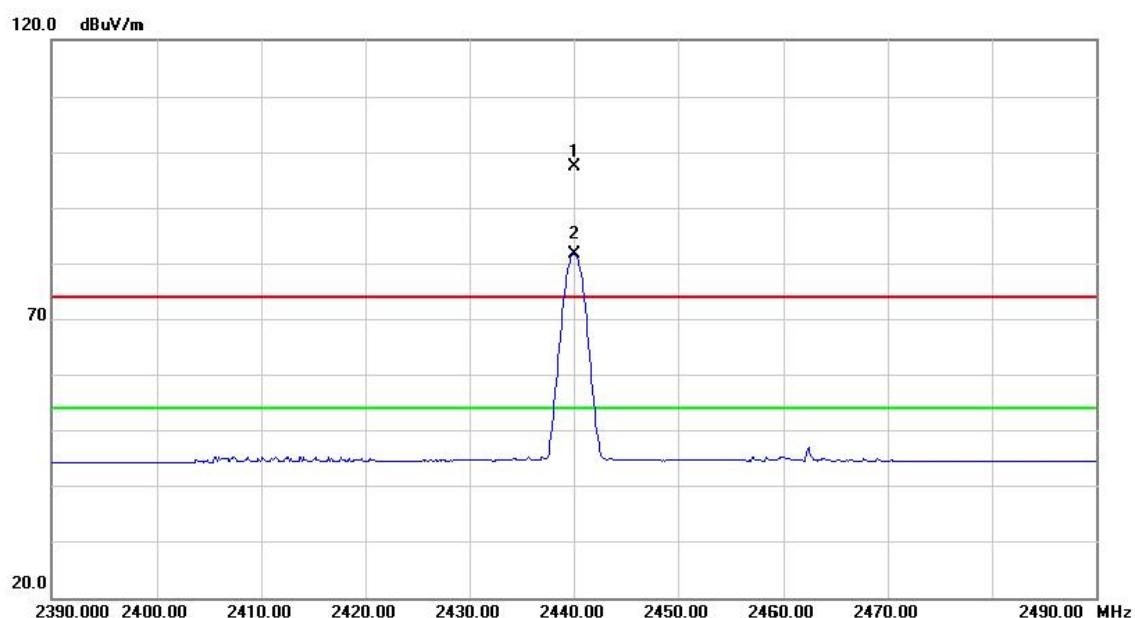
Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

**Vertical**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB		
1		4884.745	37.65	3.53	41.18	74.00	-32.82	peak	
2		4884.745	25.32	3.53	28.85	54.00	-25.15	AVG	
3		7321.547	34.37	8.62	42.99	74.00	-31.01	peak	
4	*	7321.547	24.65	8.62	33.27	54.00	-20.73	AVG	

Orthogonal Axis : X

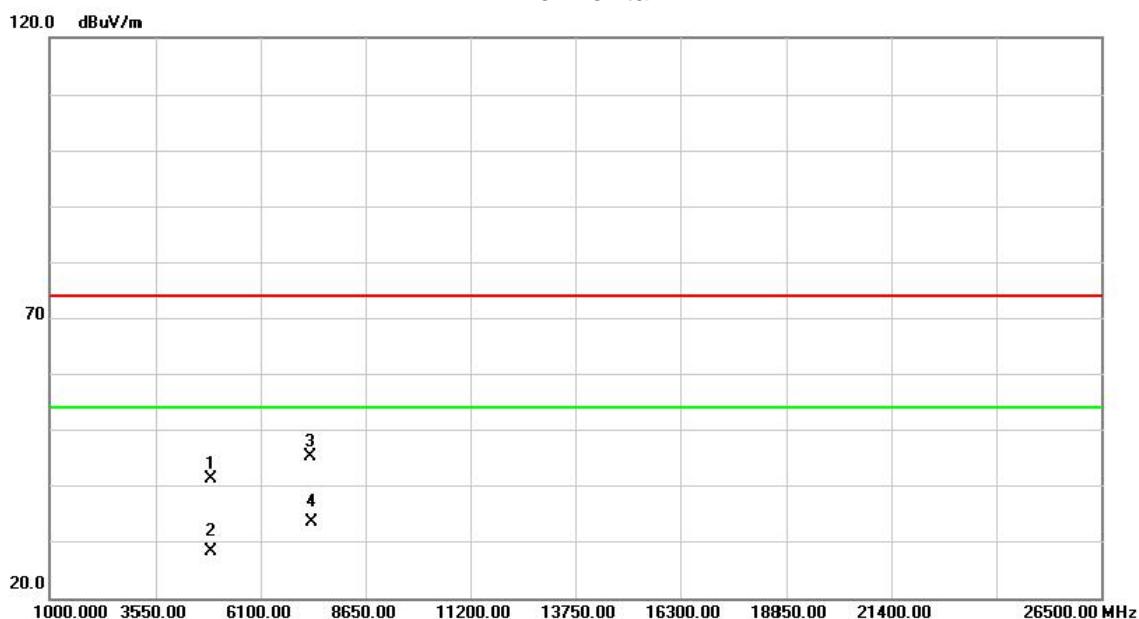
Test Mode : TX 2440MHz\_CH19\_1Mbps

**Horizontal**

No.	Mk.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X 2440.000	66.58	30.72	97.30	74.00	23.30	peak NO Limit
2	* 2440.000	50.87	30.72	81.59	54.00	27.59	AVG NO Limit

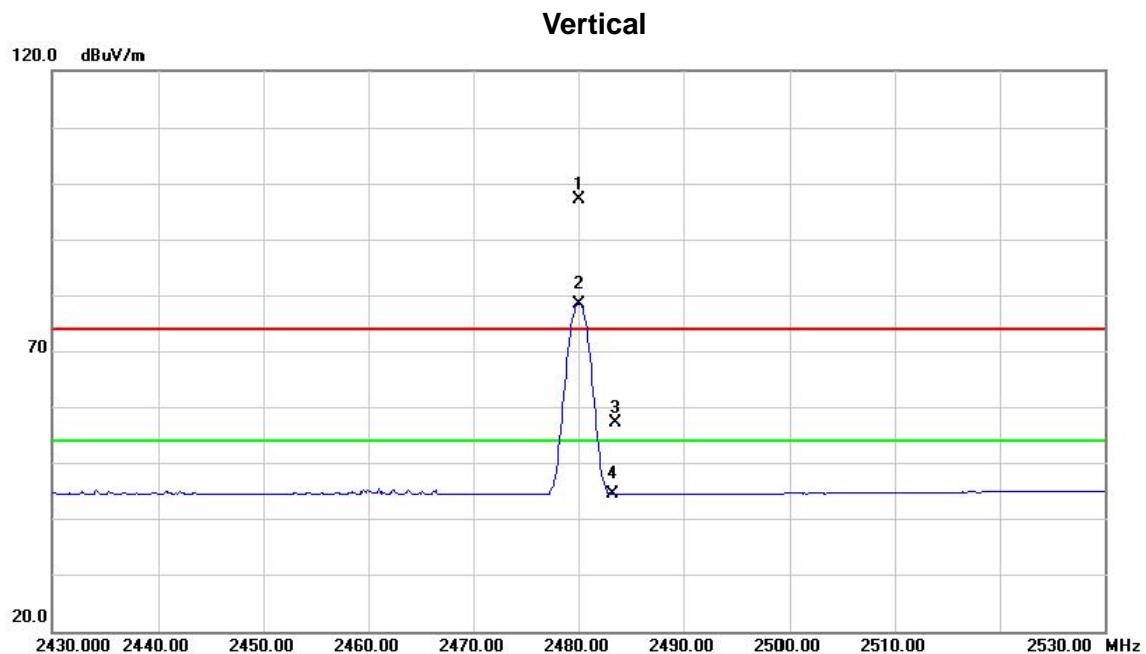
Orthogonal Axis :	X
Test Mode :	TX 2440MHz_CH19_1Mbps

### Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4881.695	37.65	3.52	41.17	74.00	-32.83	peak
2		4881.695	24.65	3.52	28.17	54.00	-25.83	AVG
3		7323.452	36.54	8.63	45.17	74.00	-28.83	peak
4	*	7323.452	24.65	8.63	33.28	54.00	-20.72	AVG

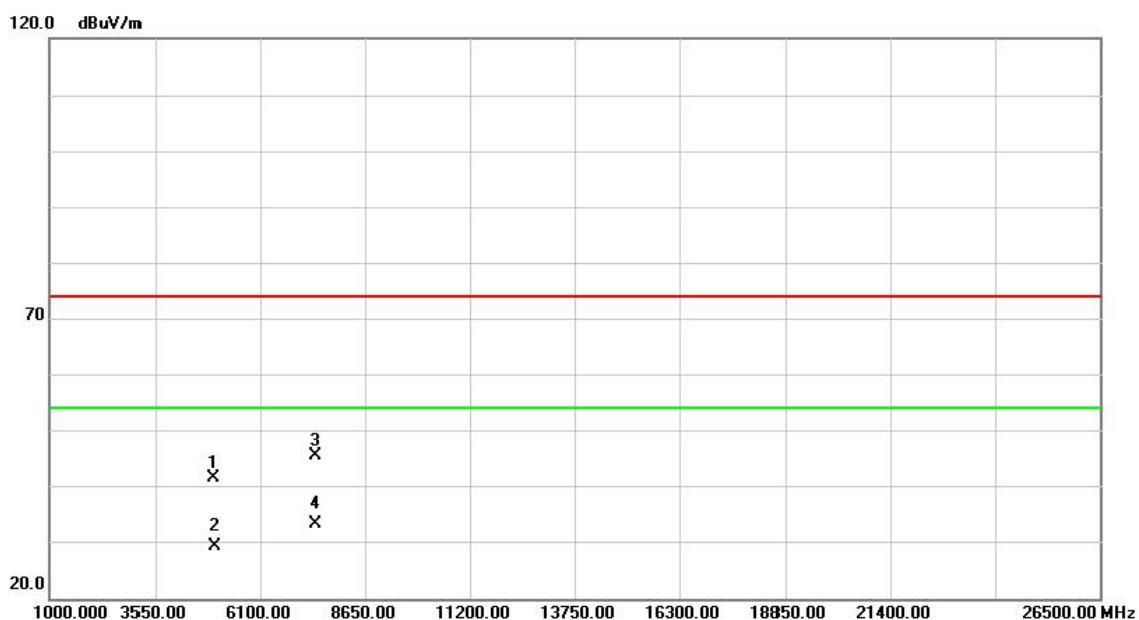
Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB	Detector	
1	X	2480.000	66.25	30.86	97.11	74.00	23.11	peak NO Limit
2	*	2480.000	47.61	30.86	78.47	54.00	24.47	AVG NO Limit
3		2483.500	26.27	30.87	57.14	74.00	-16.86	peak
4		2483.500	13.50	30.87	44.37	54.00	-9.63	AVG

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

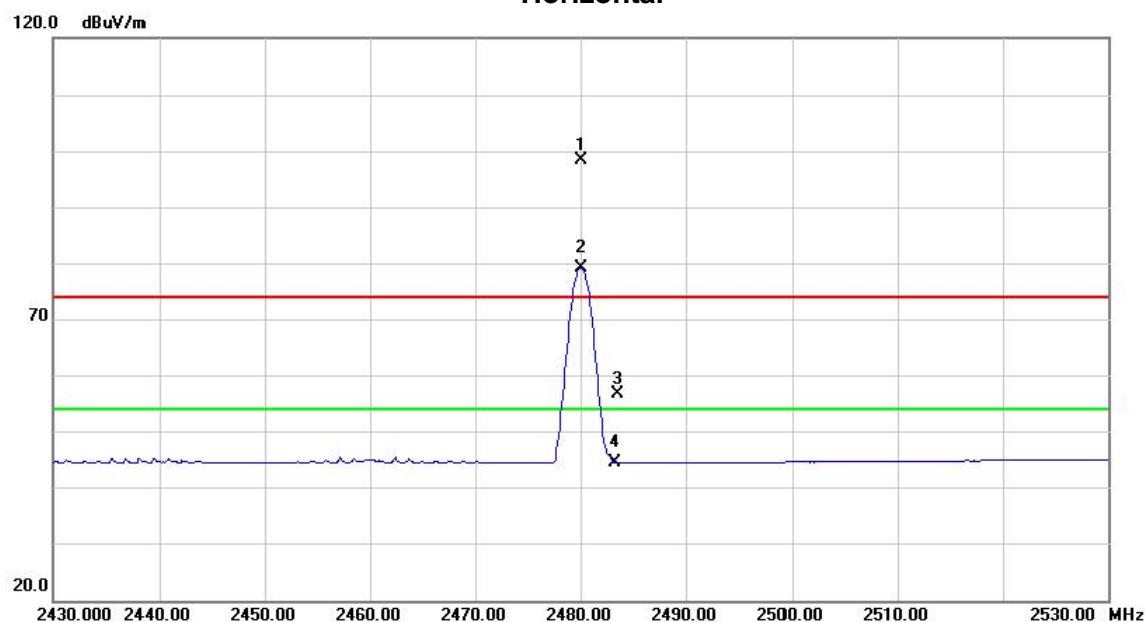
### Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4960.352	37.65	3.82	41.47	74.00	-32.53	peak	
2		4960.352	25.41	3.82	29.23	54.00	-24.77	AVG	
3		7440.152	36.54	8.85	45.39	74.00	-28.61	peak	
4	*	7440.152	24.21	8.85	33.06	54.00	-20.94	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

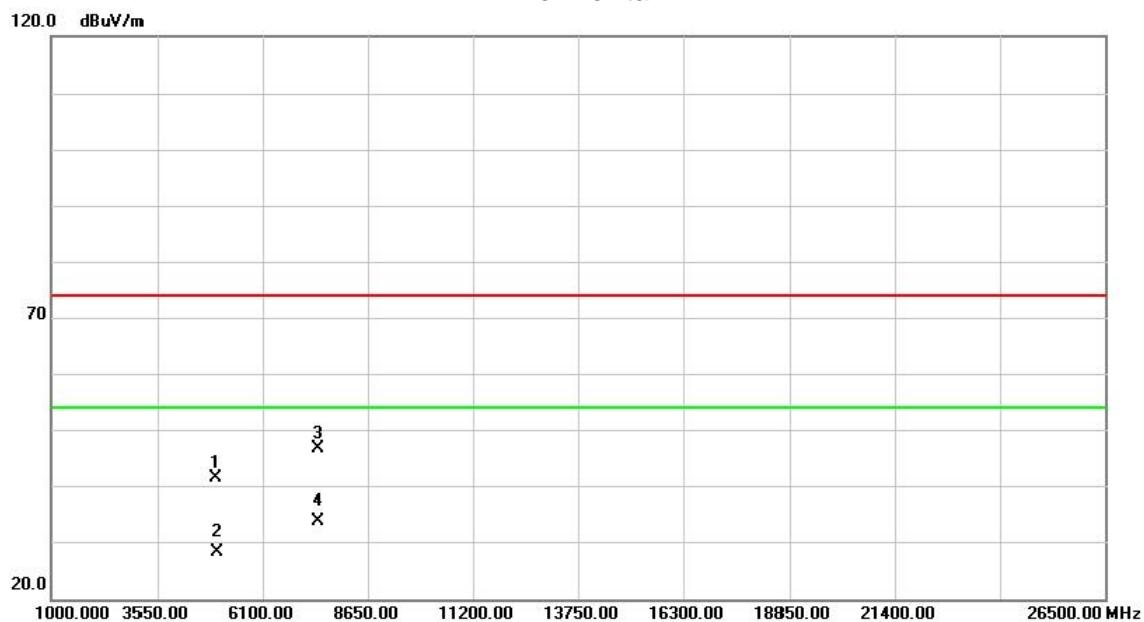
### Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	X	2480.000	67.59	30.86	98.45	74.00	24.45	peak	NO Limit
2	*	2480.000	48.30	30.86	79.16	54.00	25.16	AVG	NO Limit
3		2483.500	25.71	30.87	56.58	74.00	-17.42	peak	
4		2483.500	13.53	30.87	44.40	54.00	-9.60	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

### Horizontal

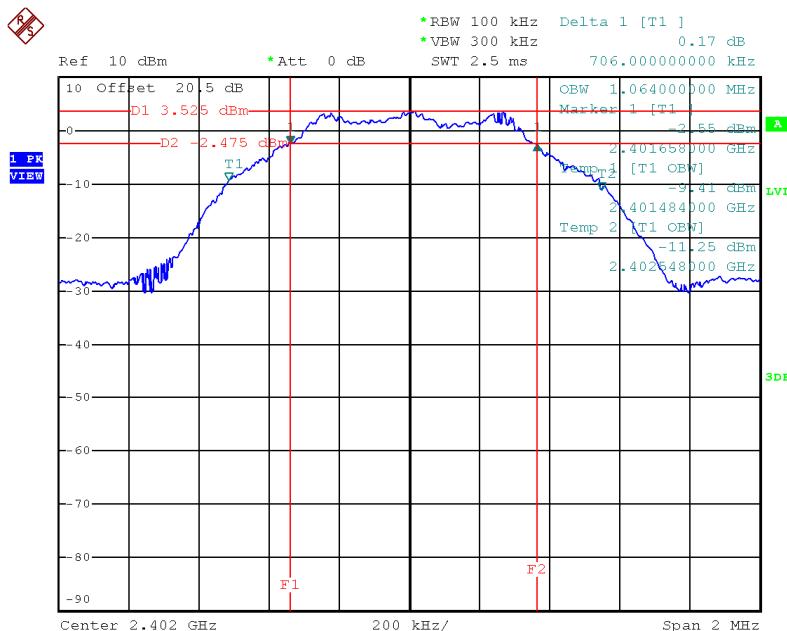


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	4956.241	37.54	3.80	41.34	74.00	-32.66	peak		
2	4956.241	24.32	3.80	28.12	54.00	-25.88	AVG		
3	7442.542	37.71	8.86	46.57	74.00	-27.43	peak		
4	* 7442.542	24.66	8.86	33.52	54.00	-20.48	AVG		

## ATTACHMENT E - BANDWIDTH

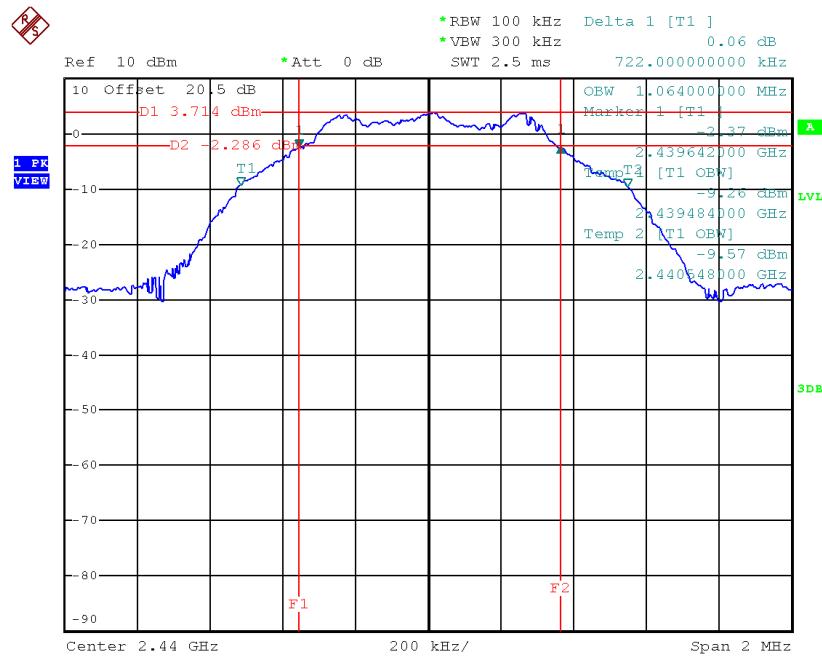
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.706	1.064	500	Complies
2440	0.722	1.064	500	Complies
2480	0.714	1.064	500	Complies

### TX CH00



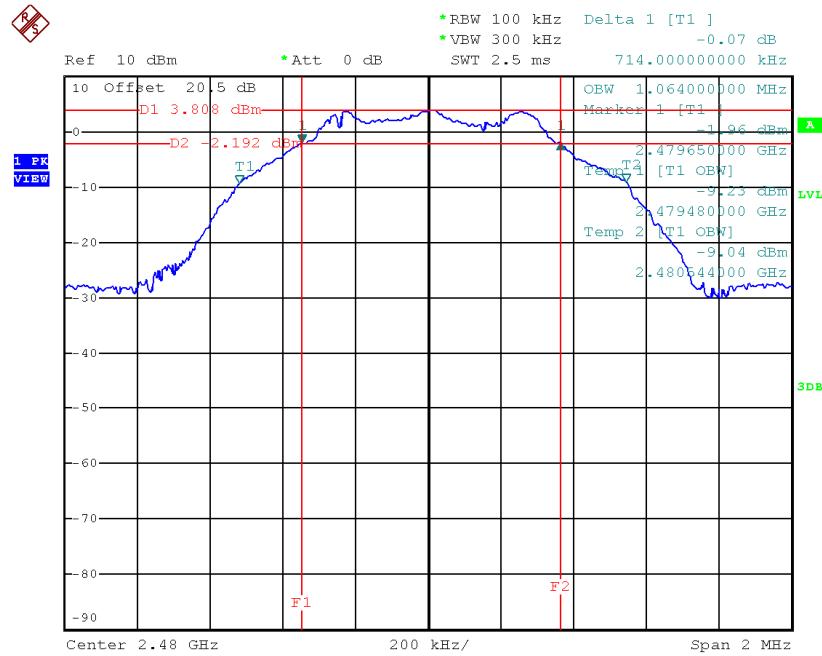
Date: 24.AUG.2015 18:11:41

## TX CH19



Date: 24.AUG.2015 18:15:03

## TX CH39



Date: 24.AUG.2015 18:16:46

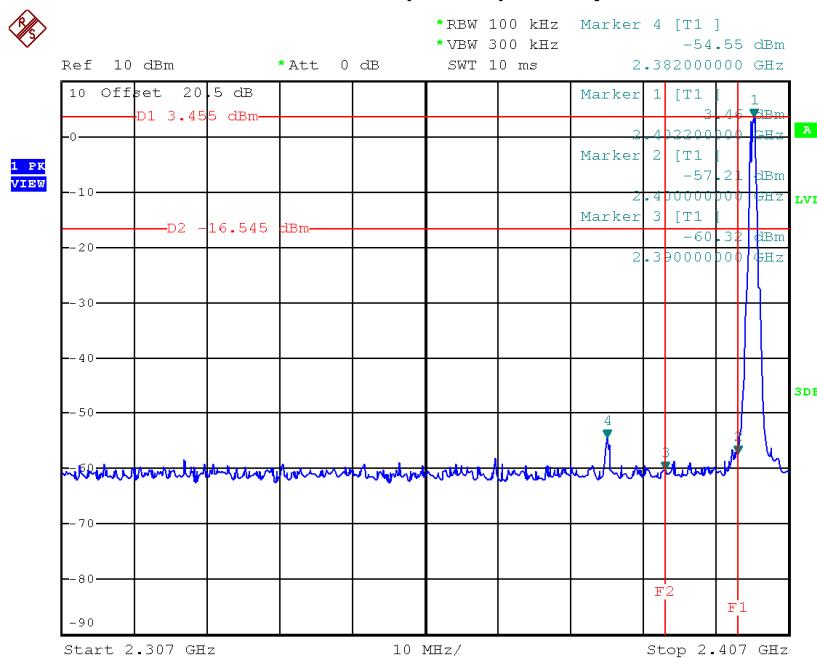
## ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	5.36	0.0034	30.00	1.00	Complies
2440	6.92	0.0049	30.00	1.00	Complies
2480	6.98	0.0050	30.00	1.00	Complies

## **ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION**

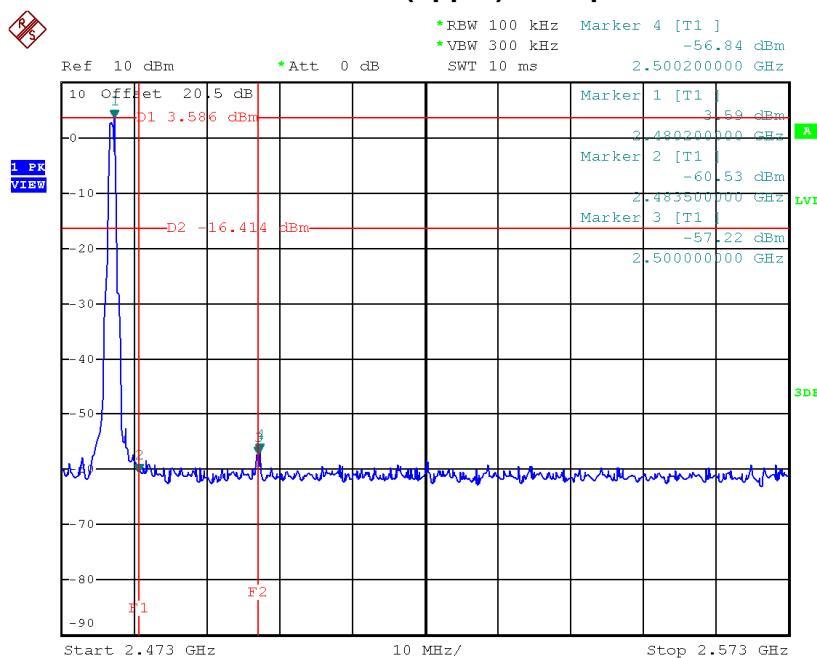
Test Mode : CH00, CH19 , CH39 - 1Mbps

### CH00 (Lower) - 1Mbps

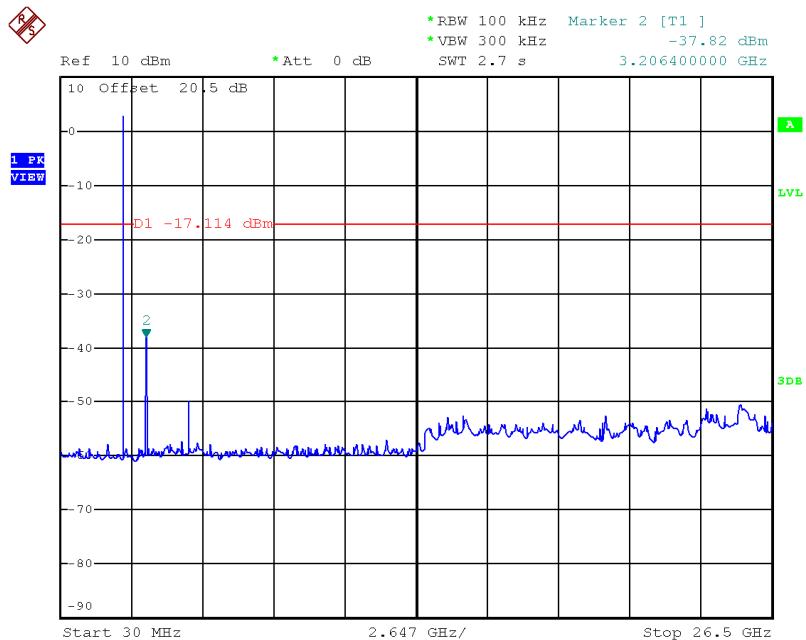


Date: 24.AUG.2015 18:12:05

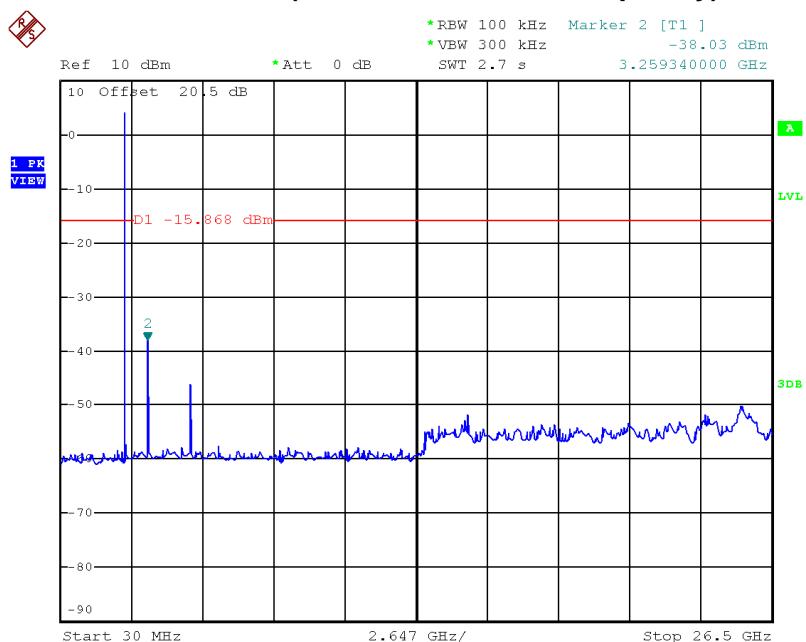
### CH39 (upper) - 1Mbps



Date: 24.AUG.2015 18:17:10

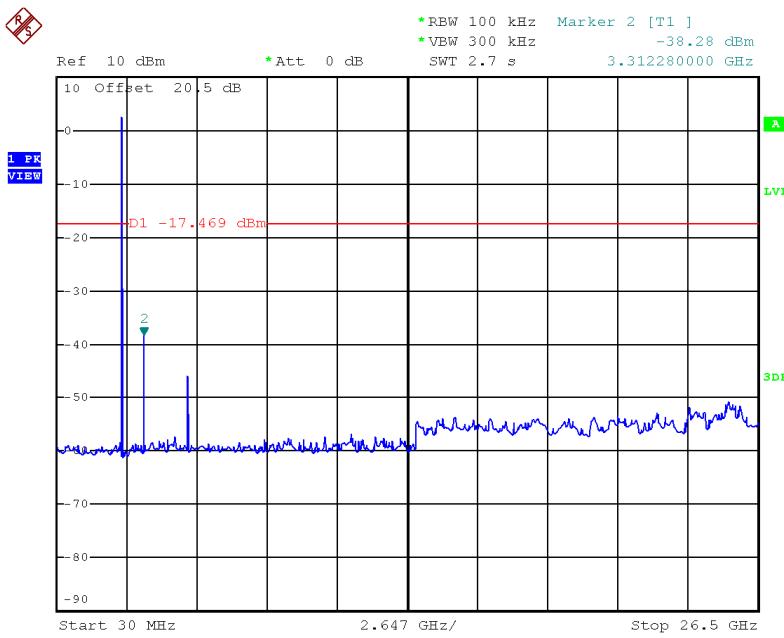
**CH00 (10 Harmonic of the frequency)**

Date: 24.AUG.2015 18:12:18

**CH19 (10 Harmonic of the frequency)**

Date: 24.AUG.2015 18:15:16

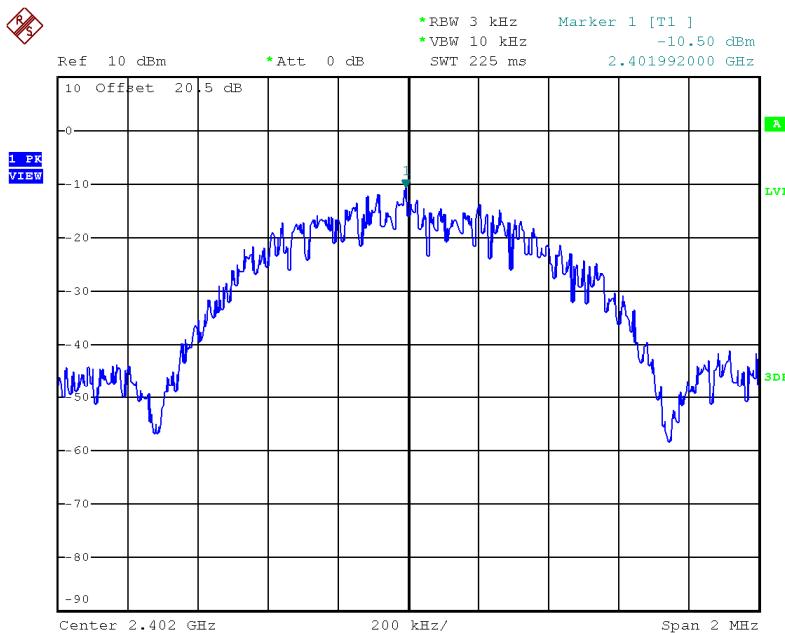
## CH39 (10 Harmonic of the frequency)



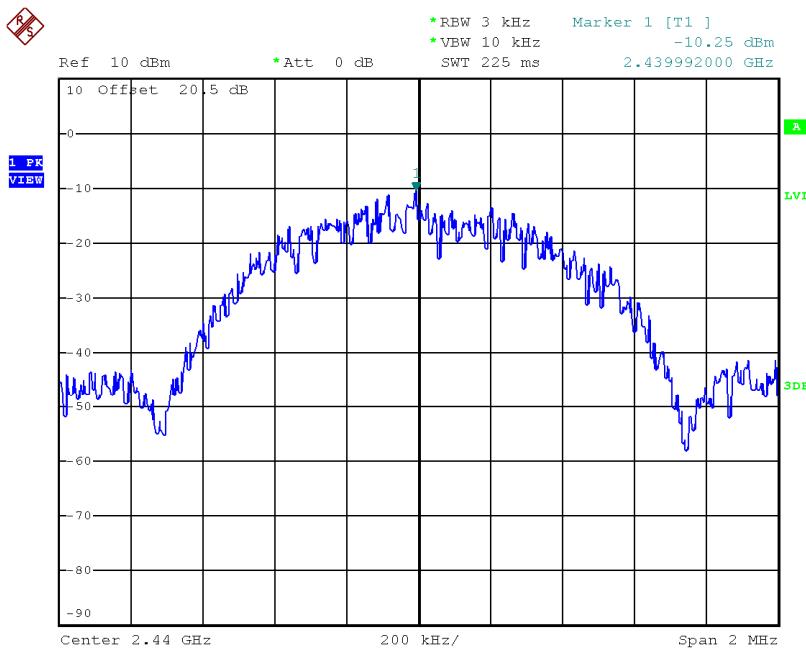
Date: 24.AUG.2015 18:17:22

## ATTACHMENT H - POWER SPECTRAL DENSITY TEST

Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-10.50	8	Complies
2440	-10.25	8	Complies
2480	-10.17	8	Complies

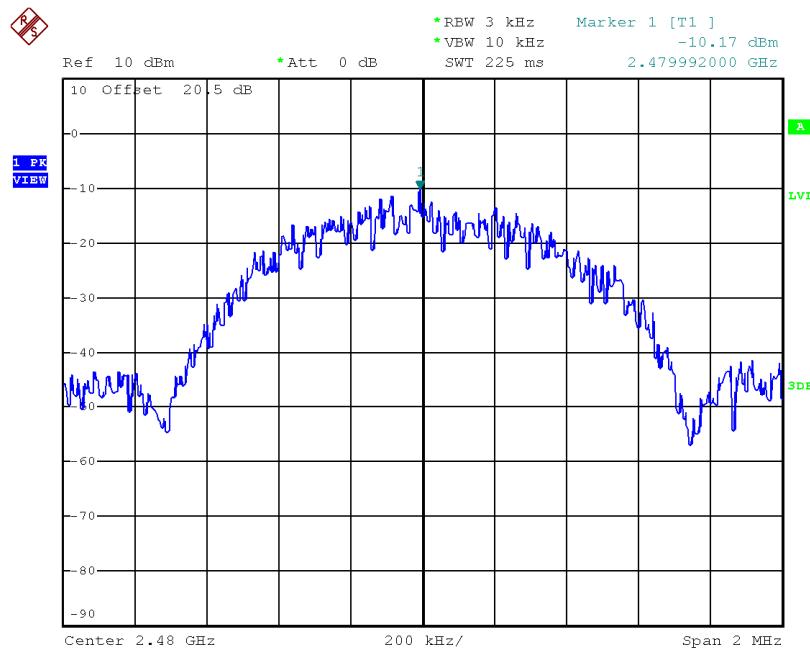
**TX CH00**

## TX CH19



Date: 24.AUG.2015 18:15:21

## TX CH39



Date: 24.AUG.2015 18:17:28