

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Shenzhen Doking Electronic Technology Co.,Ltd

2.4G Receiver

Model Number: DOK-D001

FCC ID: AMRD001

Prepared for : Shenzhen Doking Electronic Technology Co.,Ltd
Dingfeng Hi-tech Estate, Shapu, Songgang Town, Baoan
District, Shenzhen

Prepared By : EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town,
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Report Number : ESTE-R1112012
Date of Test : Dec.1-Dec.16, 2011
Date of Report : Dec.19, 2011

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TEST REPORT CERTIFICATION




Applicant : Shenzhen Doking Electronic Technology Co.,Ltd
 Manufacturer : Shenzhen Doking Electronic Technology Co.,Ltd
 EUT Description : 2.4G Receiver
 FCC ID : AMRD001
 (A) MODEL NO. : DOK-D001
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V From PC Input AC 120V/60Hz
 (D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:
 FCC Rules and Regulations Part 15 Subpart C:2008

Test procedure used:
 ANSI C63.4:2003

The device described above is tested by EST Technology Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and EST Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment under test (EUT) is to be technically compliant with the FCC requirements.

Prepared by:	Tested by:	Approved by:
 <hr style="width: 100%;"/>	 <hr style="width: 100%;"/>	 <hr style="width: 100%;"/>
Ada / Assistant	Tony/ Engineer	Iceman Hu / Manager
<i>This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>		

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.4-2003	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.4-2003	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.4-2003	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.4-2003	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	: 2.4G Receiver
Model Number	: DOK-D001
FCC ID	: AMRD001
Operation frequency	: 2402MHz~2478MHz
Antenna	: Integrated PCB antenna, 1.97dBi gain
Modulation	: GFSK
Power Supply	: DC 5V From PC Input AC 120V/60Hz
Applicant	: Shenzhen Doking Electronic Technology Co.,Ltd Dingfeng Hi-tech Estate, Shapu, Songgang Town, Baoan District, Shenzhen
Manufacturer	: Shenzhen Doking Electronic Technology Co.,Ltd Dingfeng Hi-tech Estate, Shapu, Songgang Town, Baoan District, Shenzhen
Sample Type	: Prototype production

2.2. Tested Supporting System Details

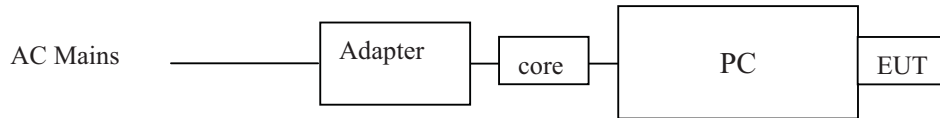
2.2.1. Personal Computer

Manufacturer : DELL
 M/N : PP25L

2.2.2. Adapter

Manufacturer : DELL
 M/N : DA65NS4-00
 Input : AC 100-240V~50/60Hz 0.2A

2.3. EUT Configuration and operation conditions for test.



(EUT: 2.4G Receiver)

EUT work continues Tx mode and frequency as below:

Channel Frequency	
Low 2402MHz	
Middle 2442MHz	
High 2478MHz	

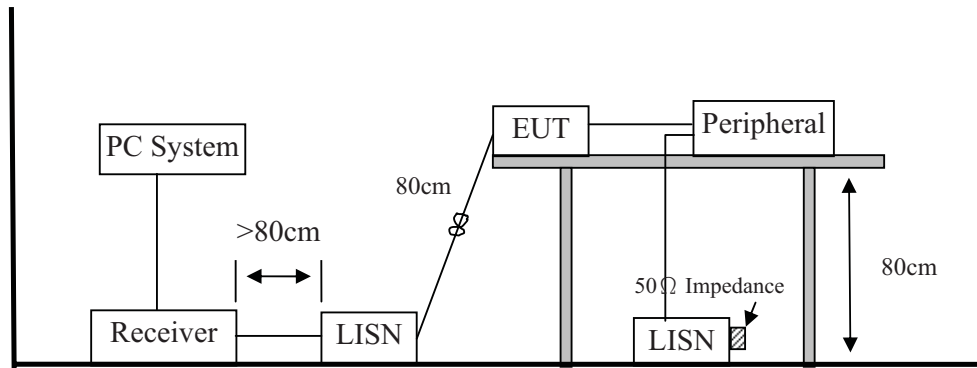
Note: A typical modulation was applied when performance test.

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	Mar,19,11	1 Year
2.	Artificial Mains Network	Rohde & Schwarz	ENV216	101260	Mar,19,11	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	Nov,20,11	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency range MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0,15 to 0,5	66-56	56-46
0,5 to 5	56-56	46-46
5 to 30	60-60	50-50

Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 2.3
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Tx mode) and measure it.

3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Powered from PC which mains connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.6. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

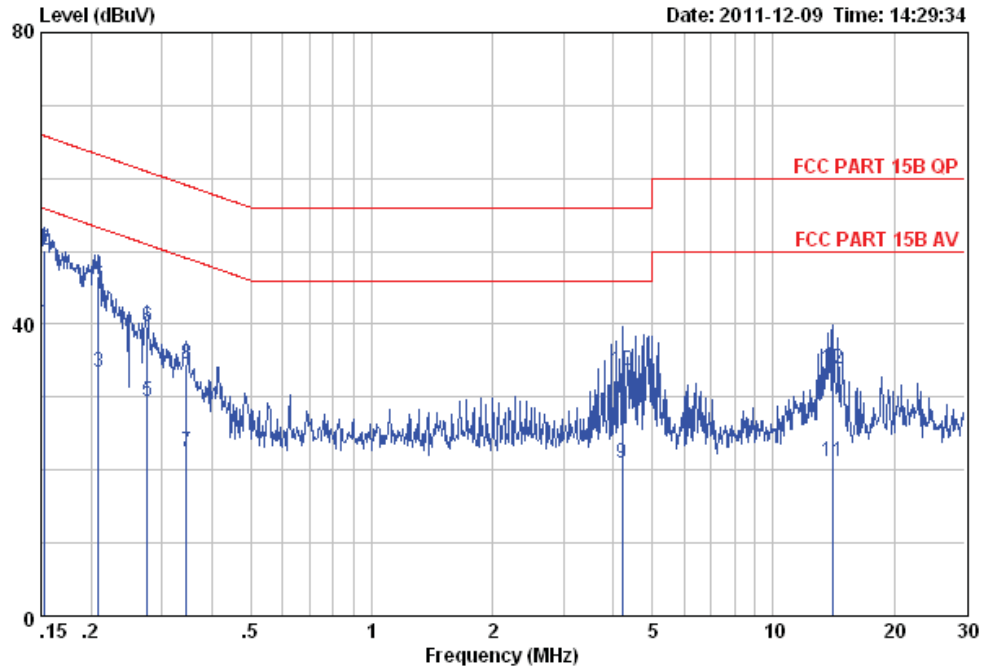
The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

Tets Data:

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Data: 9 File: D:\test data\D\Doking.EMI (16) Date: 2011-12-09 Time: 14:29:34



Site no. : EST 844 Shielded Room Data no. : 9
 Limit : FCC PART 15 QP LINE Phase : NEUTRAL
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX

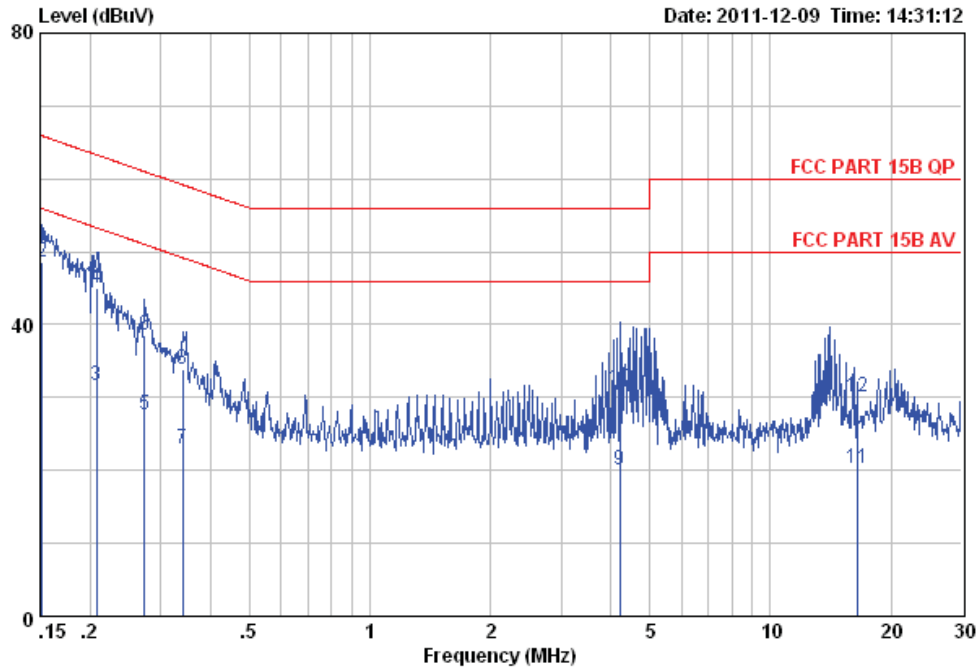
	Freq. (MHz)	Emission			Margin (dB)	Remark
		Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	0.15	20.92	40.20	55.82	15.62	Average
2	0.15	30.87	50.15	65.82	15.67	QP
3	0.21	14.10	33.50	53.27	19.77	Average
4	0.21	27.10	46.50	63.27	16.77	QP
5	0.28	9.97	29.40	50.94	21.54	Average
6	0.28	20.21	39.64	60.94	21.30	QP
7	0.34	3.18	22.60	49.09	26.49	Average
8	0.34	15.16	34.58	59.09	24.51	QP
9	4.20	1.51	21.00	46.00	25.00	Average
10	4.20	14.20	33.69	56.00	22.31	QP
11	14.14	1.45	21.10	50.00	28.90	Average
12	14.14	14.18	33.83	60.00	26.17	QP



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Data: 11 File: D:\test data\D\Doking.EMI (16) Date: 2011-12-09 Time: 14:31:12



Site no. : EST 844 Shielded Room Data no. : 11
 Limit : FCC PART 15 QP LINE Phase : LINE
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX

	Freq. (MHz)	Emission			Margin (dB)	Remark
		Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	0.15	18.78	38.20	55.91	17.71	Average
2	0.15	29.26	48.68	65.91	17.23	QP
3	0.21	12.19	31.60	53.32	21.72	Average
4	0.21	25.50	44.91	63.32	18.41	QP
5	0.27	8.16	27.60	51.03	23.43	Average
6	0.27	19.03	38.47	61.03	22.56	QP
7	0.34	3.56	23.00	49.18	26.18	Average
8	0.34	14.45	33.89	59.18	25.29	QP
9	4.20	0.61	20.10	46.00	25.90	Average
10	4.20	11.76	31.25	56.00	24.75	QP
11	16.49	0.67	20.30	50.00	29.70	Average
12	16.49	10.37	30.00	60.00	30.00	QP

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

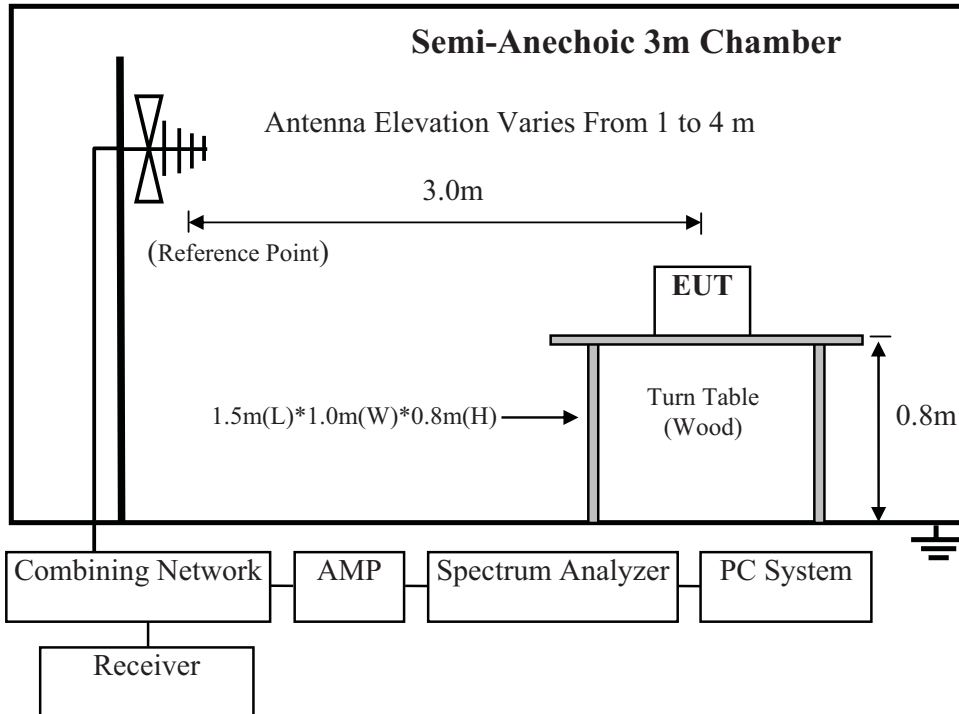
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
2	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
3	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
4	Bilog Antenna	Schaffner	CBL6112D	25237	Mar. 27,11	1 Year
5	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 11	1 Year
6	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 11	1 Year

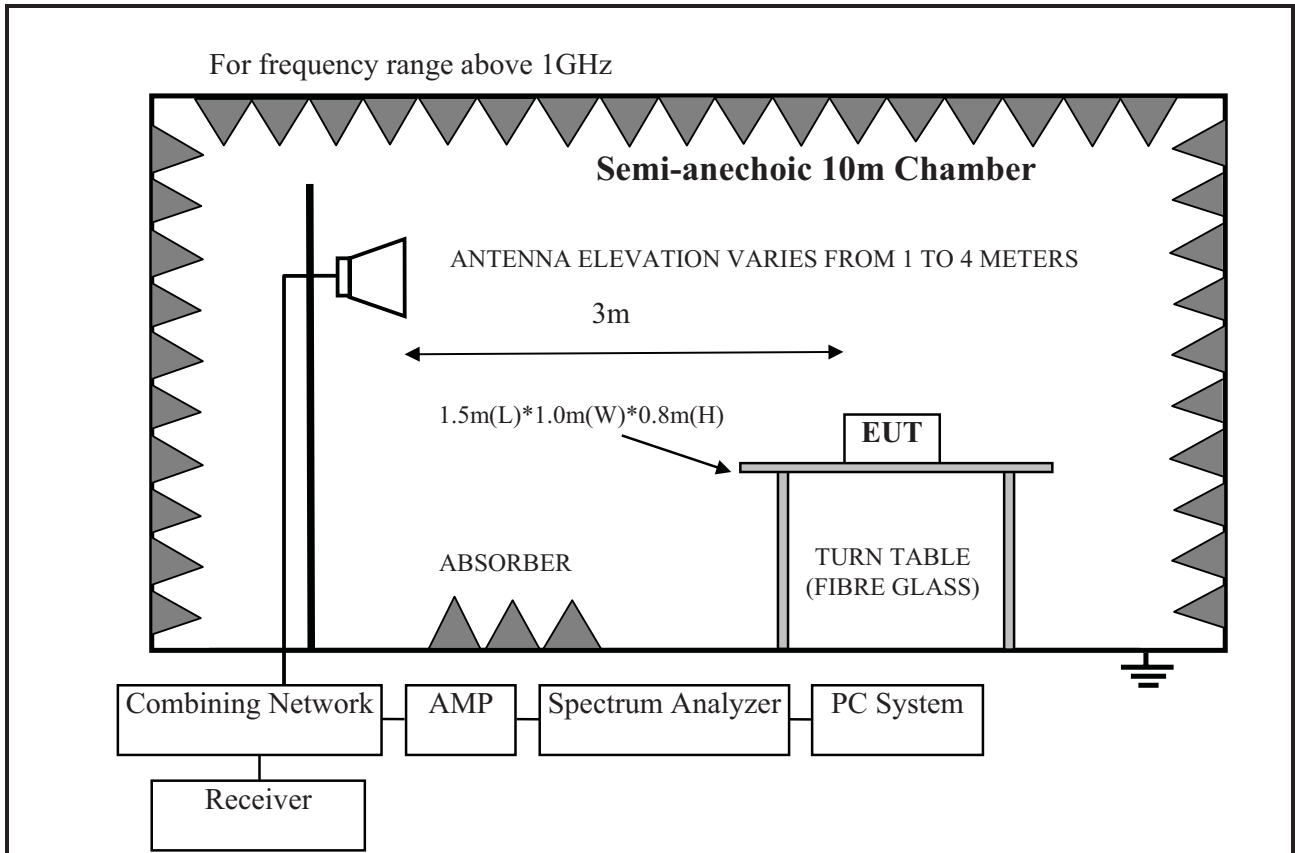
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 11	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.25, 11	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	May.25, 11	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 11	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 11	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$ dB($\mu\text{V}/\text{m}$
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 1000MHz	3	74.0 dB($\mu\text{V}/\text{m}$) (Peak) 54.0 dB($\mu\text{V}/\text{m}$) (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 dB($\mu\text{V}/\text{m}$) (Peak) 94.0 dB($\mu\text{V}/\text{m}$) (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.4.2. Turned on the power of all equipment.
- 4.4.3. Let EUT work in test mode (Tx mode) and test it.

4.5. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission Test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz

The bandwidth of the Spectrum Analyzer's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz, and 1MHz RBW, 10Hz VBW for average measurement above 1GHz.

4.6. Radiated Emission Test Results

PASS.

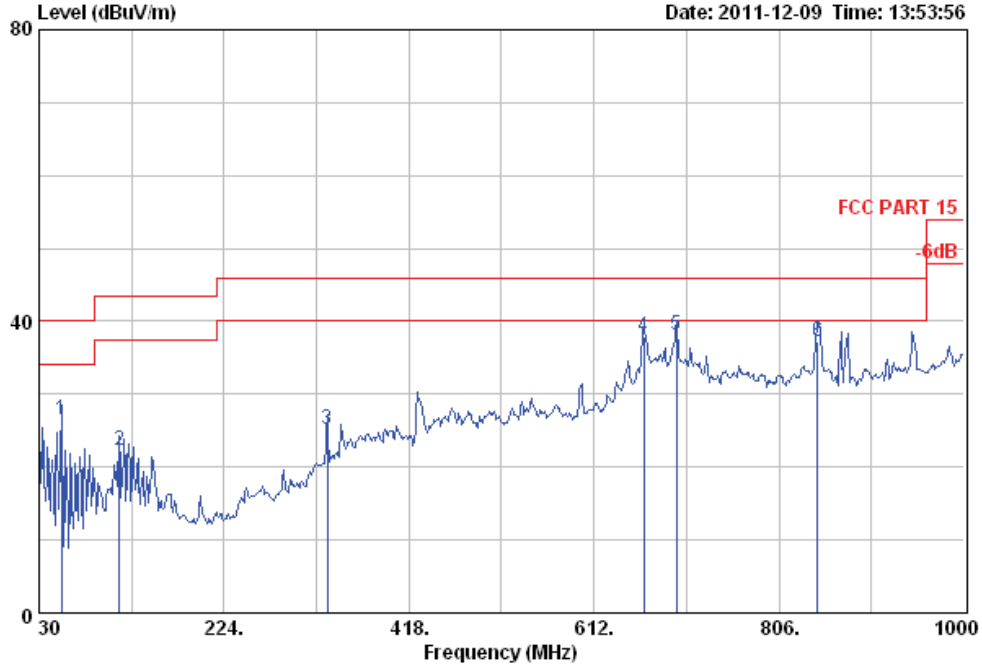
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Emissions from 30MHz to 1GHz:

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Data: 39 File: D:\test data\2011\10\Doking.EMI (50)



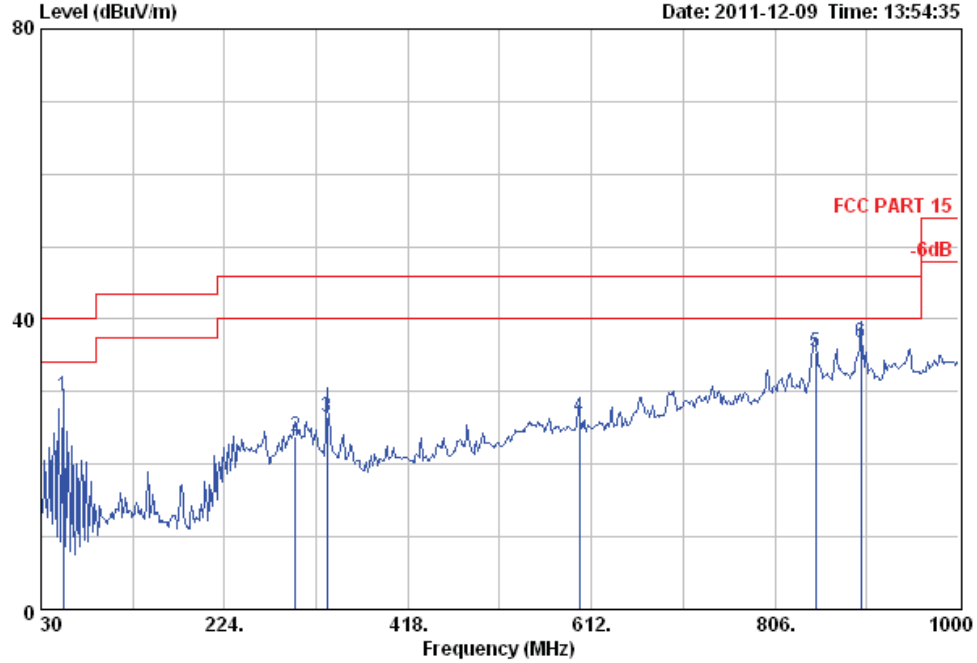
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

	Ant.	Cable	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	53.28	6.11	2.05	18.42	26.58	40.00	13.42	QP
2	114.39	10.85	3.15	8.31	22.31	43.50	21.19	QP
3	332.64	13.93	5.57	5.61	25.11	46.00	20.89	QP
4	664.38	20.13	8.18	9.47	37.78	46.00	8.22	QP
5	698.33	20.54	8.31	9.16	38.01	46.00	7.99	QP
6	846.74	22.85	9.25	5.03	37.13	46.00	8.87	QP

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Data: 40 File: D:\test data\2011\D\Doking.EMI (50)



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6'; Humi:56%; Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

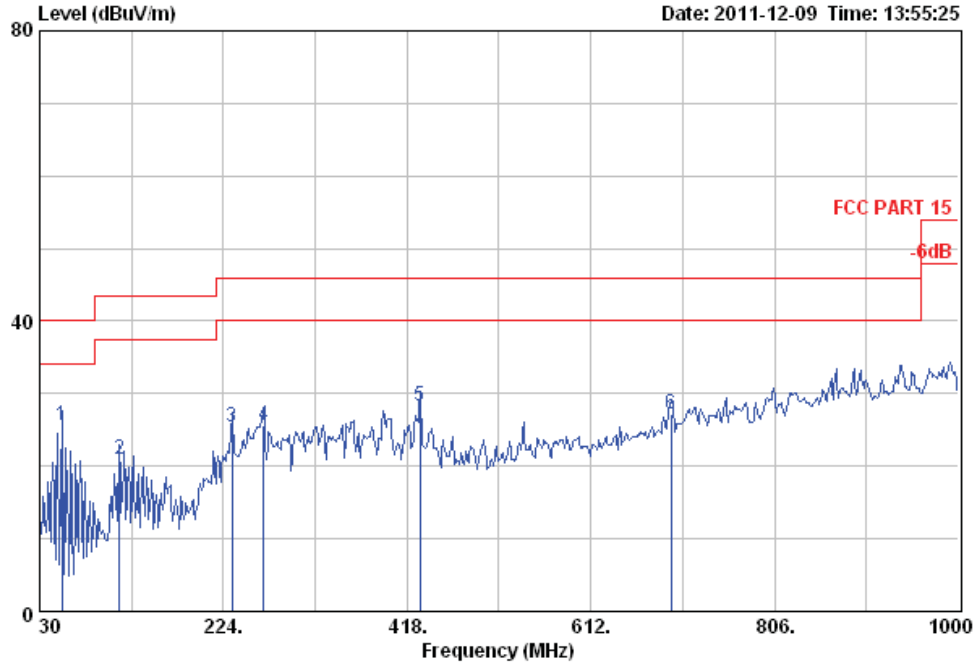
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark (dB)
					Level (dBuV/m)	Limits (dBuV/m)		
1	53.28	6.11	2.05	21.24	29.40	40.00	10.60	QP
2	298.69	13.00	5.28	5.61	23.89	46.00	22.11	QP
3	332.64	13.93	5.57	7.03	26.53	46.00	19.47	QP
4	599.39	19.58	7.61	-0.58	26.61	46.00	19.39	QP
5	848.68	22.92	9.23	3.28	35.43	46.00	10.57	QP
6	897.18	23.13	9.41	4.24	36.78	46.00	9.22	QP

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Data: 41 File: D:\test data\2011\D\Doking.EMI (50)

Date: 2011-12-09 Time: 13:55:25



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6'; Humi:56%; Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

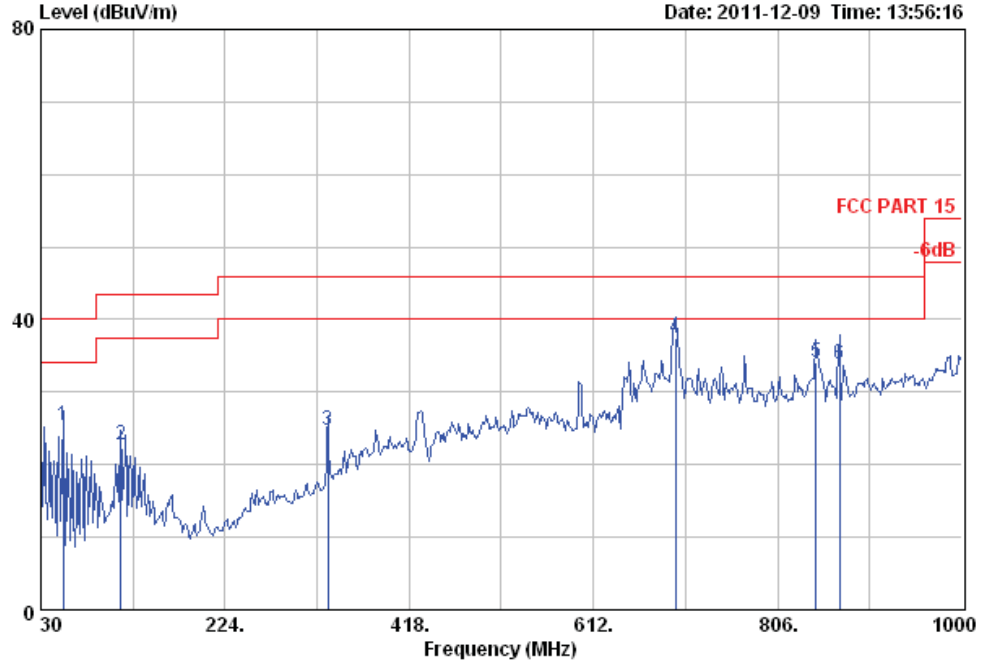
	Ant.	Cable	Emission		Margin	Remark		
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	53.28	6.11	2.05	17.41	25.57	40.00	14.43	QP
2	114.39	10.85	3.15	7.04	21.04	43.50	22.46	QP
3	232.73	9.59	4.63	11.11	25.33	46.00	20.67	QP
4	266.68	12.79	4.97	7.87	25.63	46.00	20.37	QP
5	431.58	16.09	6.31	5.98	28.38	46.00	17.62	QP
6	696.39	20.50	8.28	-1.56	27.22	46.00	18.78	QP



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Data: 42 File: D:\test data\2011\1\1\Doking.EMI (50)



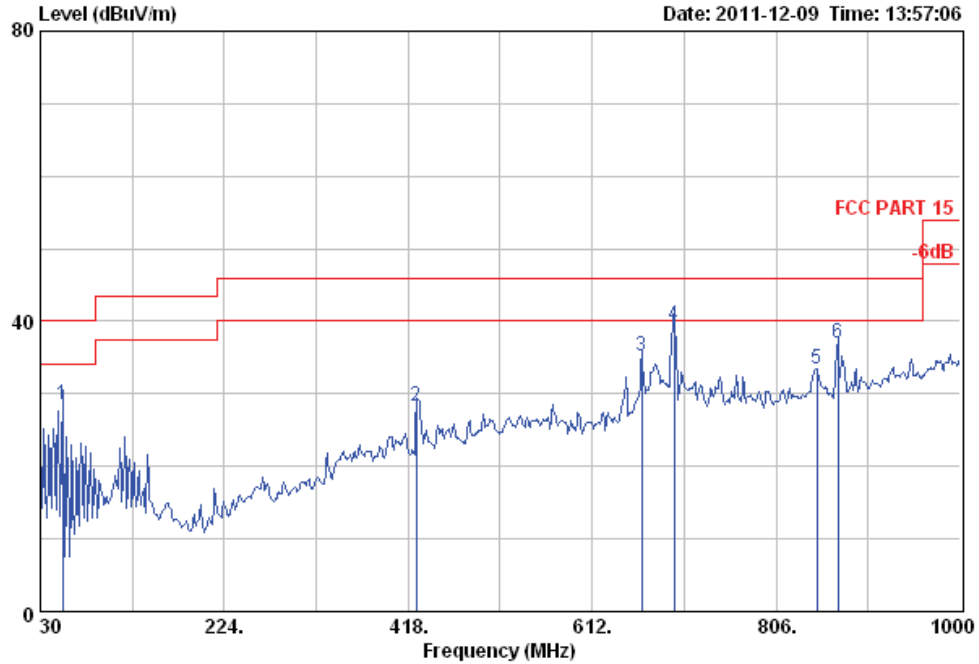
Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6'; Humi:56%; Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	53.28	6.11	2.05	17.16	25.32	40.00	14.68	QP
2	114.39	10.85	3.15	8.63	22.63	43.50	20.87	QP
3	332.64	13.93	5.57	5.29	24.79	46.00	21.21	QP
4	698.33	20.54	8.31	8.50	37.35	46.00	8.65	QP
5	846.74	22.85	9.25	2.02	34.12	46.00	11.88	QP
6	870.99	22.80	9.34	1.68	33.82	46.00	12.18	QP

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Data: 43 File: D:\test data\2011\D\Doking.EMI (50)



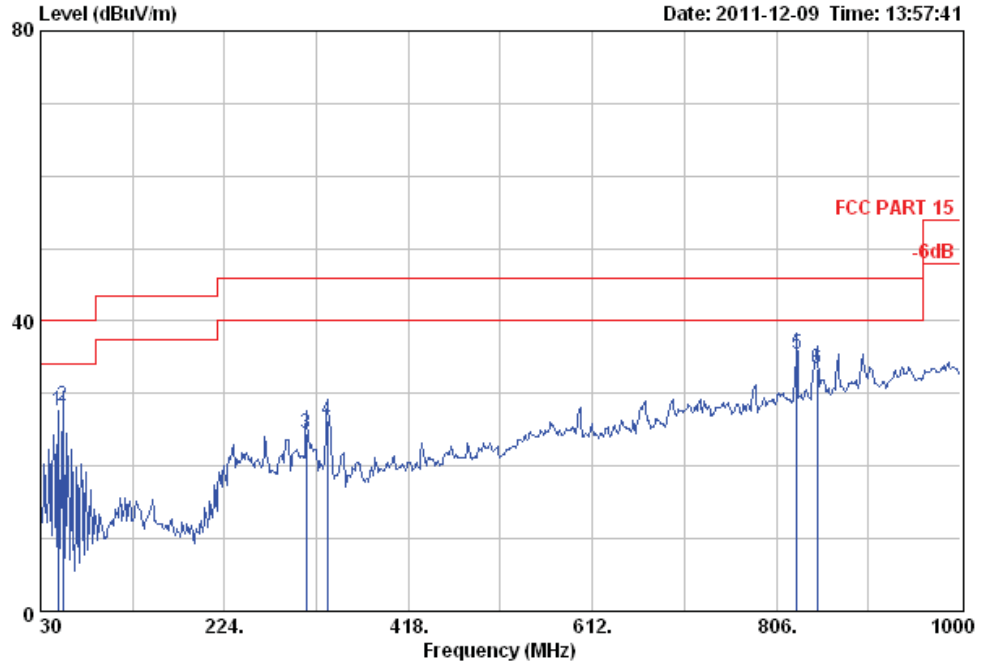
Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2478MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)		
1	53.28	6.11	2.05	20.44	28.60	40.00	11.40 QP
2	426.73	16.13	6.27	6.01	28.41	46.00	17.59 QP
3	664.38	20.13	8.18	6.88	35.19	46.00	10.81 QP
4	698.33	20.54	8.31	10.53	39.38	46.00	6.62 QP
5	848.68	22.92	9.23	1.38	33.53	46.00	12.47 QP
6	870.99	22.80	9.34	4.76	36.90	46.00	9.10 QP

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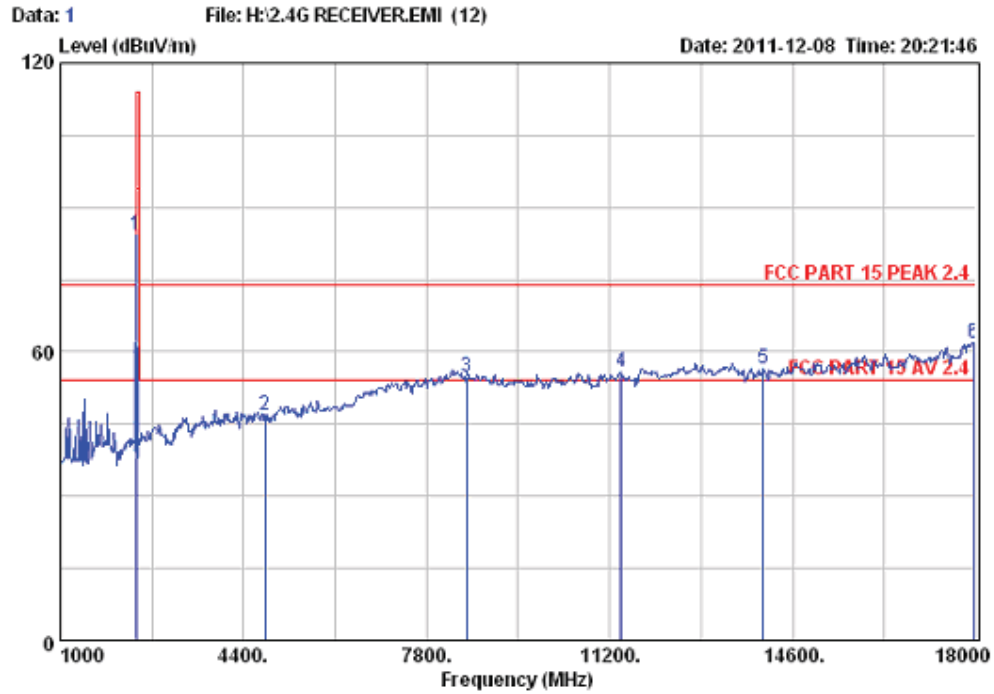
Data: 44 File: D:\test data\2011\1\1\Doking.EMI (50)



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15
 Env. / Ins. : Temp:25.6'; Humi:56%; Press:101.52kPa
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/60Hz
 M/N : DOK-D001
 Test Mode : TX 2478MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark (dB)
					Level (dBuV/m)	Limits (dBuV/m)		
1	48.43	8.37	1.95	17.36	27.68	40.00	12.32	QP
2	53.28	6.11	2.05	20.24	28.40	40.00	11.60	QP
3	310.33	13.20	5.38	6.01	24.59	46.00	21.41	QP
4	332.64	13.93	5.57	6.76	26.26	46.00	19.74	QP
5	827.34	22.46	9.17	3.70	35.33	46.00	10.67	QP
6	848.68	22.92	9.23	1.30	33.45	46.00	12.55	QP

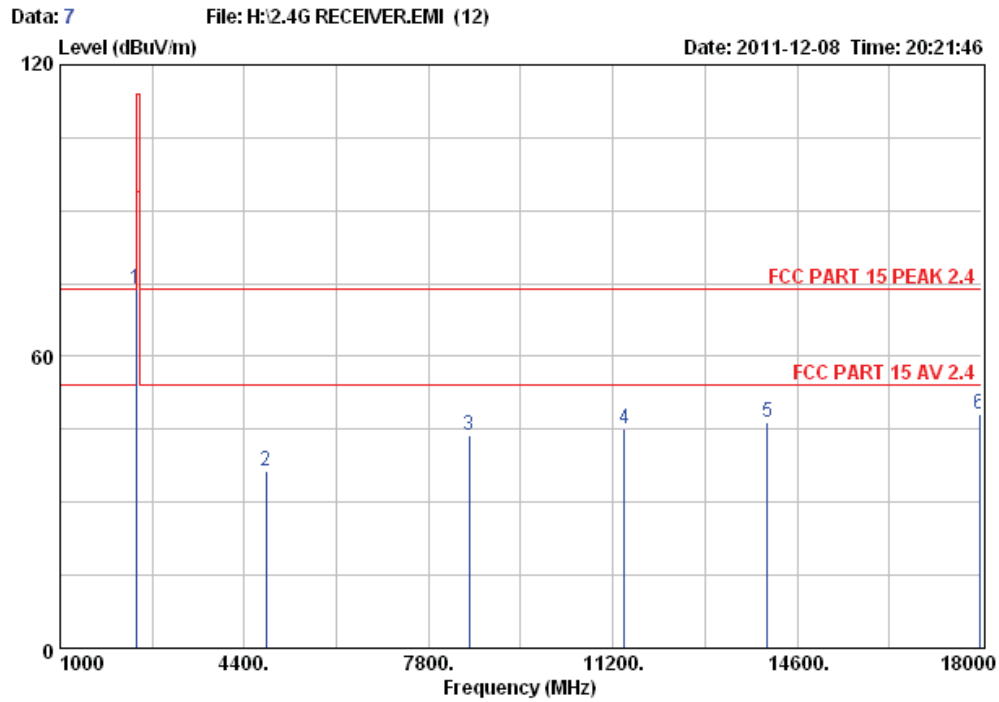
Emissions from 1GHz to 18GHz



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2402.00	84.33	114.00	29.67	Peak
2	4804.00	46.94	74.00	27.06	Peak
3	8548.00	54.97	74.00	19.03	Peak
4	11404.00	55.73	74.00	18.27	Peak
5	14056.00	56.51	74.00	17.49	Peak
6	17966.00	61.94	74.00	12.06	Peak

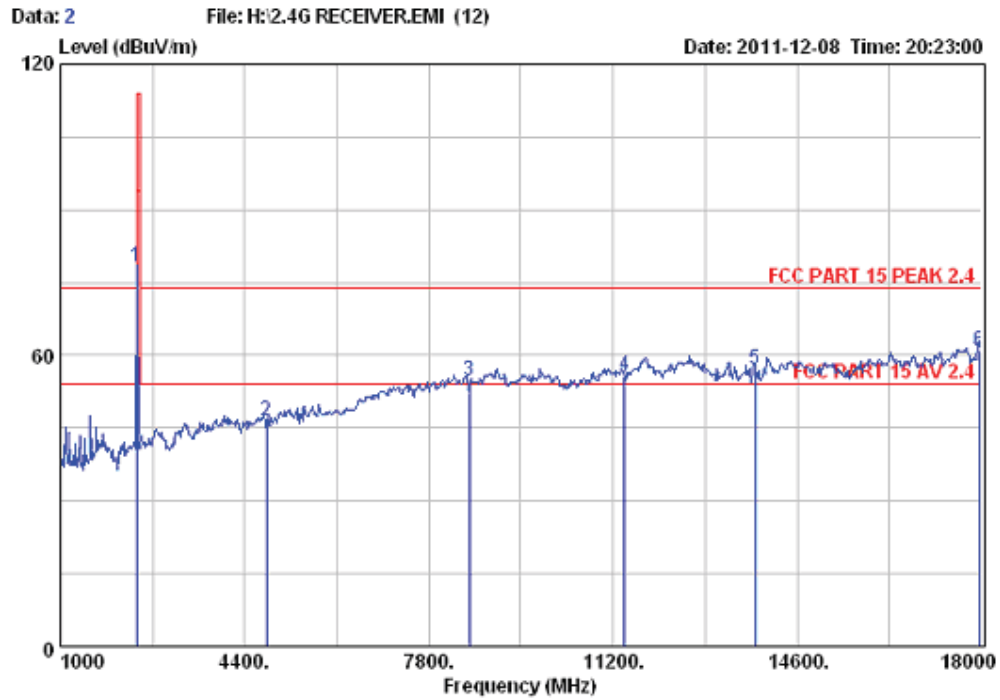
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Data: 7 File: H:\2.4G RECEIVER.EMI (12) Date: 2011-12-08 Time: 20:21:46
 Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Freq. (MHz)	Emission			
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1 2402.00	73.97	94.00	20.03	Average
2 4804.00	36.51	54.00	17.49	Average
3 8548.00	43.90	54.00	10.10	Average
4 11404.00	45.10	54.00	8.90	Average
5 14056.00	46.40	54.00	7.60	Average
6 17966.00	48.30	54.00	5.70	Average

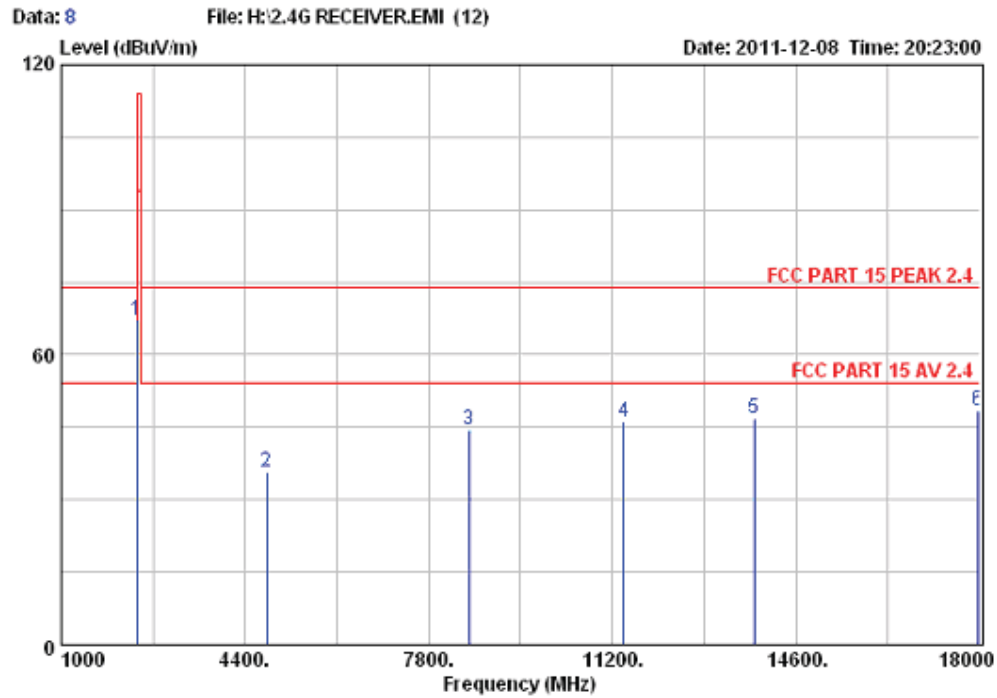
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2402.00	78.16	114.00	35.84	Peak
2	4804.00	46.36	74.00	27.64	Peak
3	8548.00	54.97	74.00	19.03	Peak
4	11404.00	55.73	74.00	18.27	Peak
5	13818.00	57.19	74.00	16.81	Peak
6	17966.00	60.94	74.00	13.06	Peak

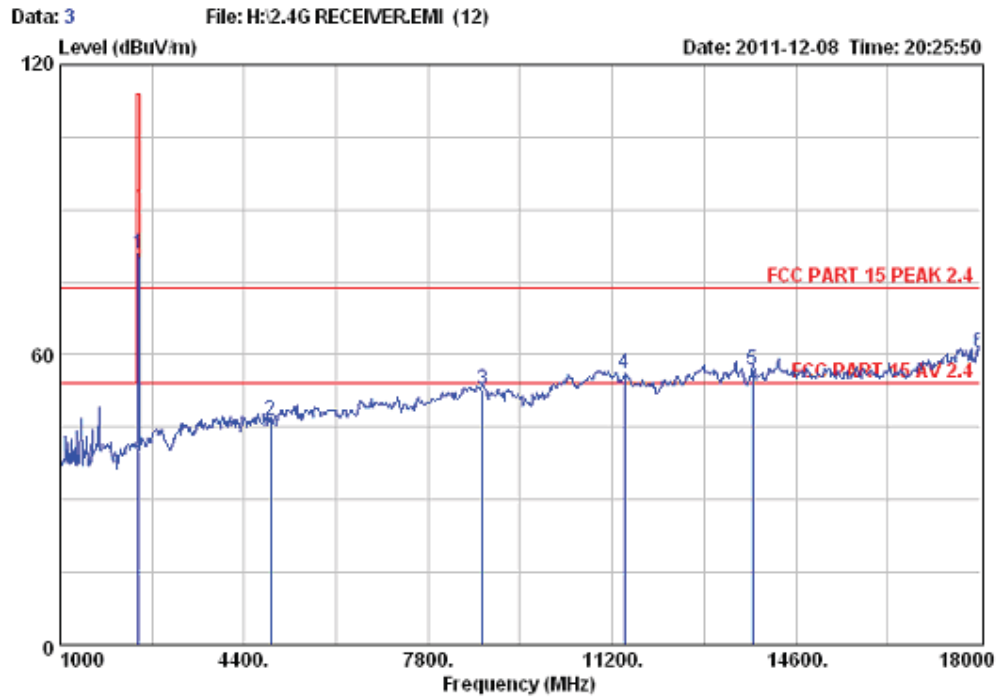
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Data: 8 File: H:\2.4G RECEIVER.EMI (12) Date: 2011-12-08 Time: 20:23:00
 Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2402.00	67.20	94.00	26.80	Average
2	4804.00	35.78	54.00	18.22	Average
3	8548.00	44.53	54.00	9.47	Average
4	11404.00	46.00	54.00	8.00	Average
5	13818.00	46.95	54.00	7.05	Average
6	17966.00	48.31	54.00	5.69	Average

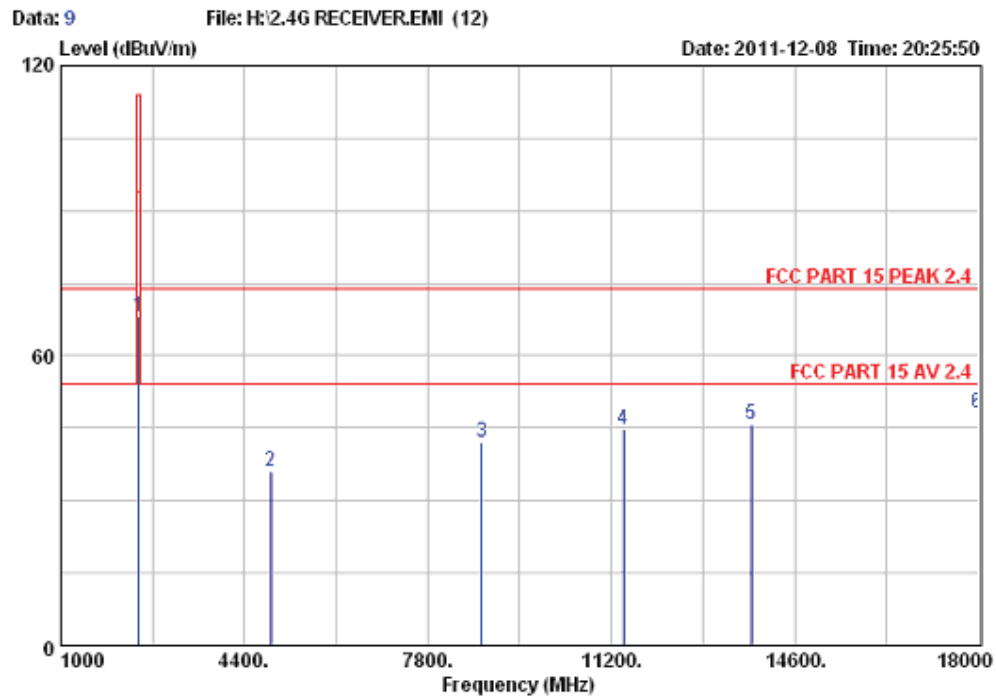
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

	Freq. (MHz)	Emission		Margin (dB)	Remark (dB)
		Level (dBuV/m)	Limits (dBuV/m)		
1	2442.00	80.88	114.00	33.12	Peak
2	4884.00	46.52	74.00	27.48	Peak
3	8803.00	52.89	74.00	21.11	Peak
4	11421.00	56.14	74.00	17.86	Peak
5	13801.00	56.81	74.00	17.19	Peak
6	18000.00	60.56	74.00	13.44	Peak

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor

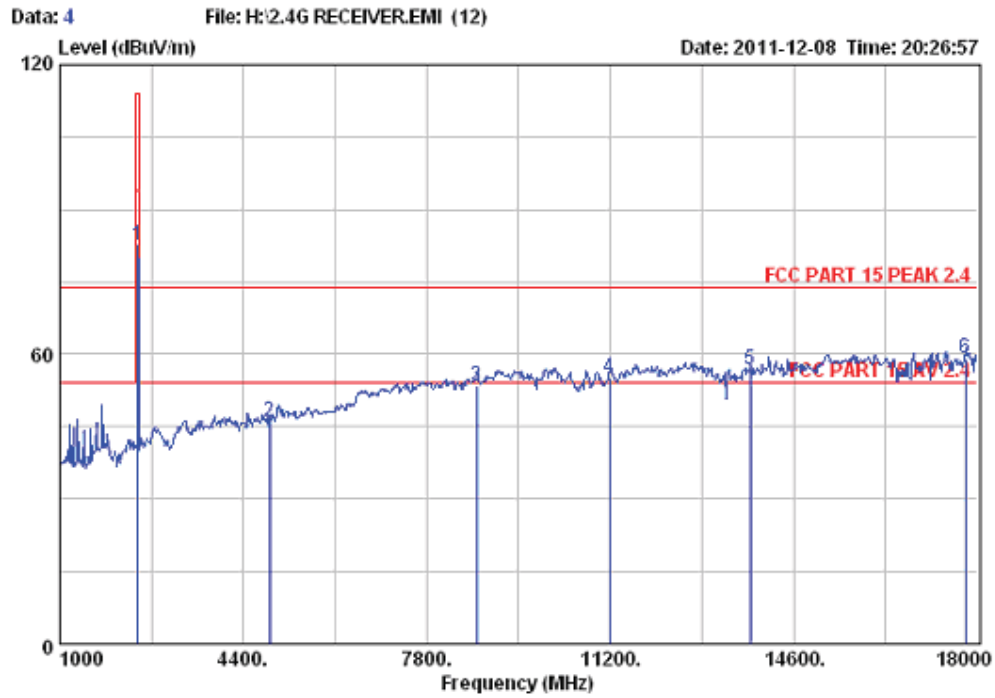


Site no. : 3m Chamber
 Dis. / Ant. : 3m 3115 FACTOR
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

Data no. : 9
 Ant. pol. : VERTICAL

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	2442.00	68.12	94.00	25.88	Average
2	4884.00	36.18	54.00	17.82	Average
3	8803.00	42.06	54.00	11.94	Average
4	11421.00	44.80	54.00	9.20	Average
5	13801.00	45.91	54.00	8.09	Average
6	18000.00	48.15	54.00	5.85	Average

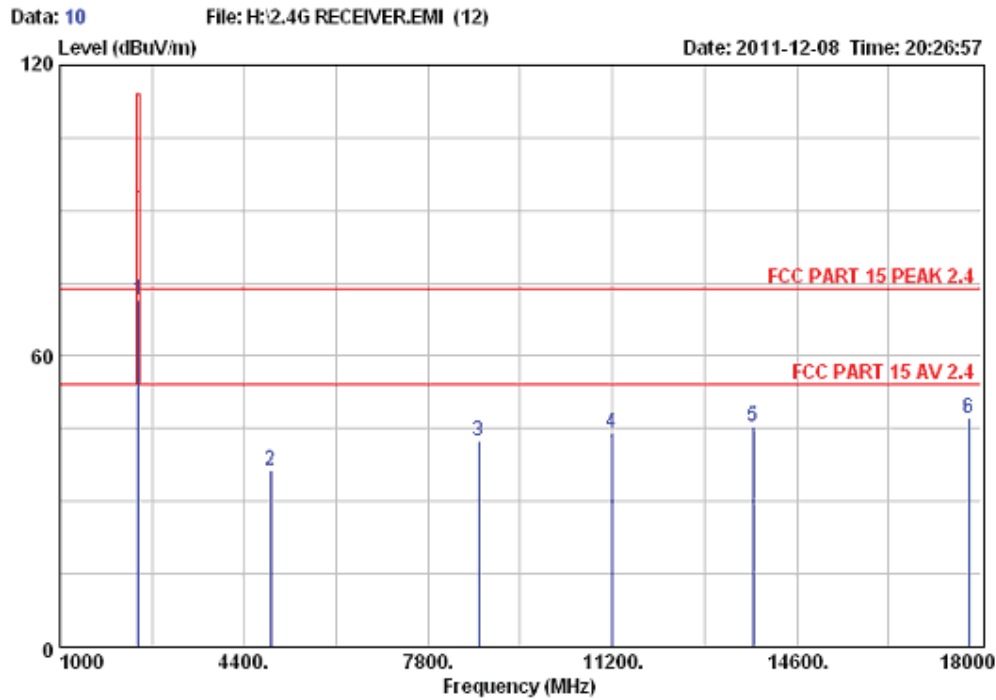
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2442.00	82.70	114.00	31.30	Peak
2	4884.00	46.29	74.00	27.71	Peak
3	8735.00	53.42	74.00	20.58	Peak
4	11183.00	55.12	74.00	18.88	Peak
5	13801.00	56.68	74.00	17.32	Peak
6	17779.00	59.23	74.00	14.77	Peak

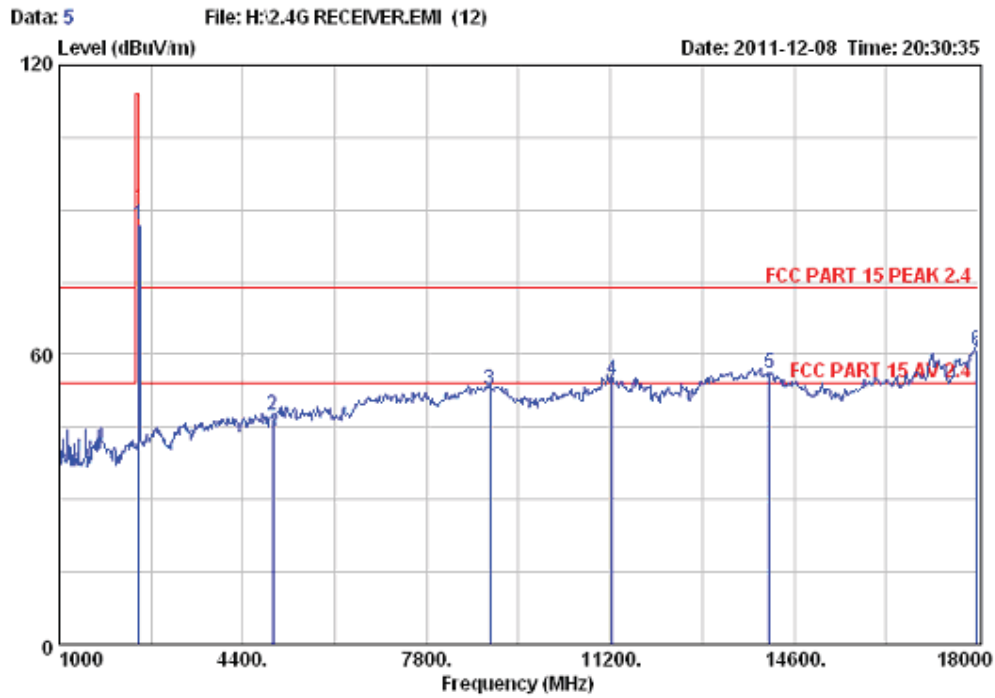
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Data: 10 File: H:2.4G RECEIVER.EMI (12) Date: 2011-12-08 Time: 20:26:57
 Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2442.00	71.44	94.00	22.56	Average
2	4884.00	36.27	54.00	17.73	Average
3	8735.00	42.51	54.00	11.49	Average
4	11183.00	44.00	54.00	10.00	Average
5	13801.00	45.36	54.00	8.64	Average
6	17779.00	47.11	54.00	6.89	Average

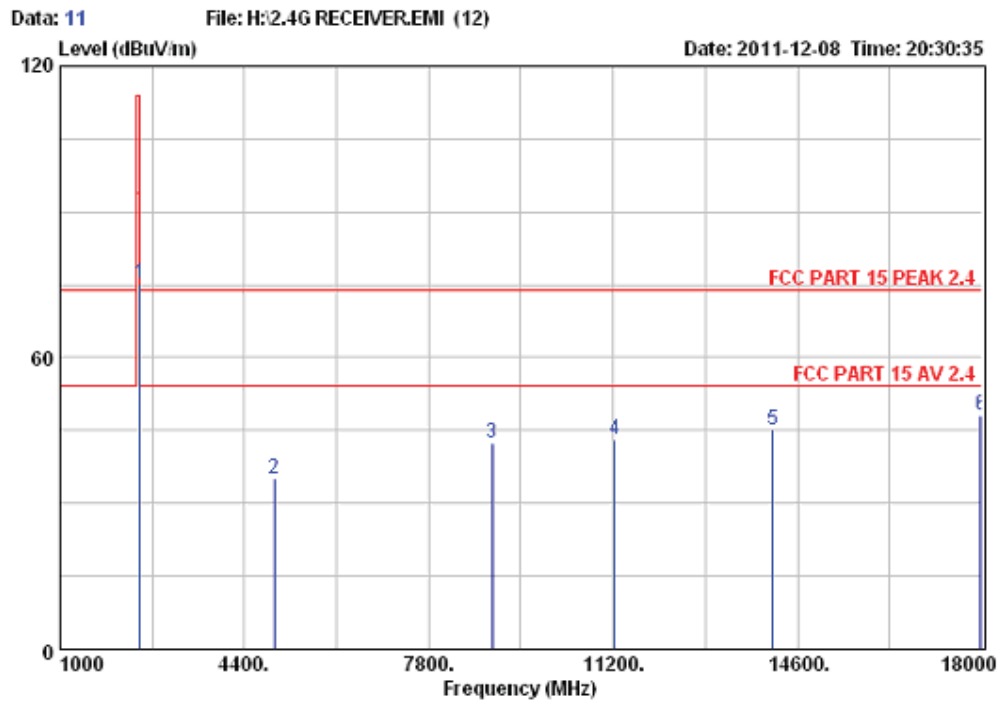
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 M/N : DOK-DOO1
 Test Mode : TX 2478MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2478.00	86.95	114.00	27.05	Peak
2	4956.00	47.31	74.00	26.69	Peak
3	8973.00	52.88	74.00	21.12	Peak
4	11234.00	54.88	74.00	19.12	Peak
5	14141.00	56.31	74.00	17.69	Peak
6	17983.00	60.89	74.00	13.11	Peak

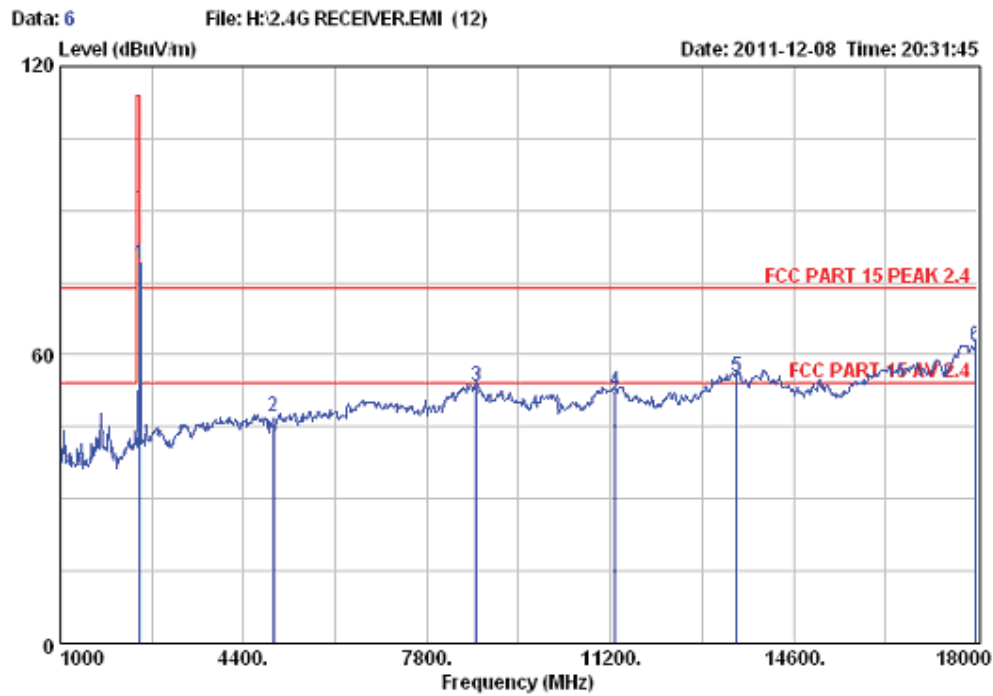
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Data: 11 File: H:2.4G RECEIVER.EMI (12) Date: 2011-12-08 Time: 20:30:35
 Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 M/N : DOK-DOO1
 Test Mode : TX 2478MHz

Emission					
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2478.00	75.11	94.00	18.89	Average
2	4956.00	35.22	54.00	18.78	Average
3	8973.00	42.33	54.00	11.67	Average
4	11234.00	43.25	54.00	10.75	Average
5	14141.00	45.27	54.00	8.73	Average
6	17983.00	48.14	54.00	5.86	Average

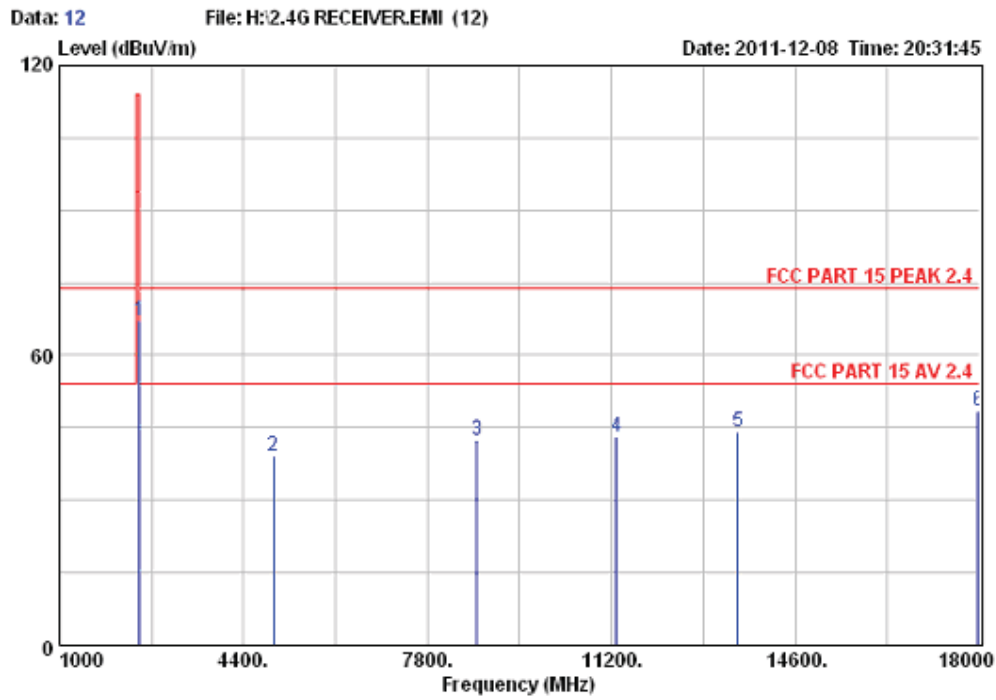
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 M/N : DOK-DOO1
 Test Mode : TX 2478MHz

	Emission				
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2479.00	78.87	114.00	35.13	Peak
2	4956.00	47.02	74.00	26.98	Peak
3	8718.00	53.42	74.00	20.58	Peak
4	11285.00	52.42	74.00	21.58	Peak
5	13546.00	55.47	74.00	18.53	Peak
6	17983.00	61.77	74.00	12.23	Peak

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor

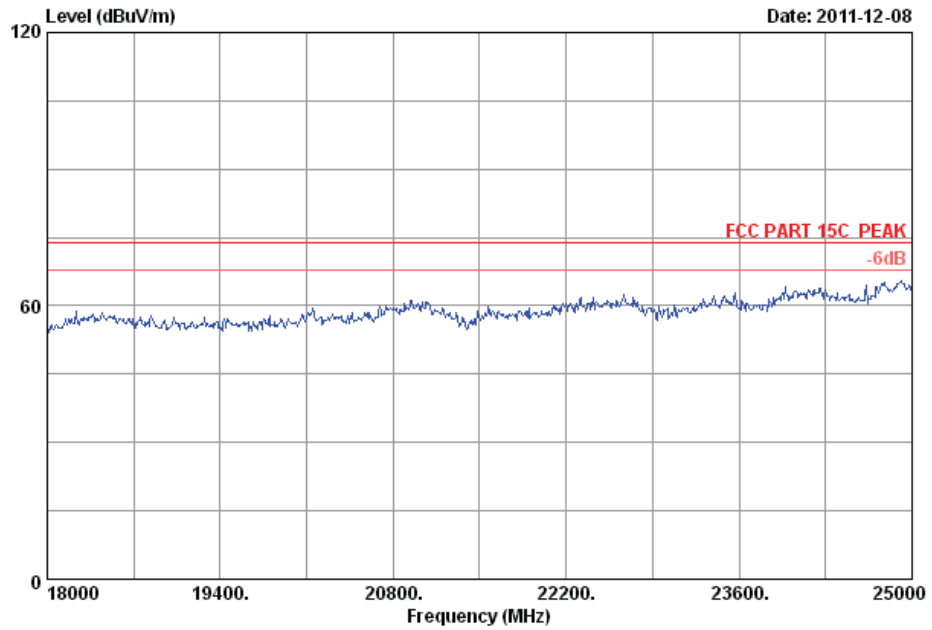


Data: 12 File: H:2.4G RECEIVER.EMI (12) Date: 2011-12-08 Time: 20:31:45
 Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24°C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 H/N : DOK-DOO1
 Test Mode : TX 2478MHz

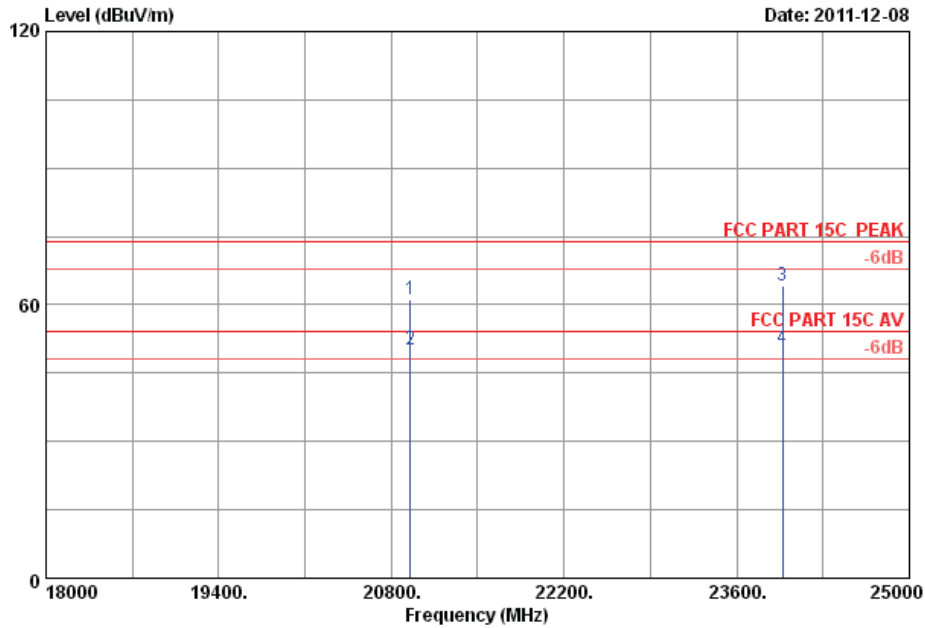
	Emission				
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	2479.00	67.03	94.00	26.97	Average
2	4956.00	39.15	54.00	14.85	Average
3	8718.00	42.51	54.00	11.49	Average
4	11285.00	42.97	54.00	11.03	Average
5	13546.00	44.08	54.00	9.92	Average
6	17983.00	46.52	54.00	5.48	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor

Emissions from 18GHz to 24GHz



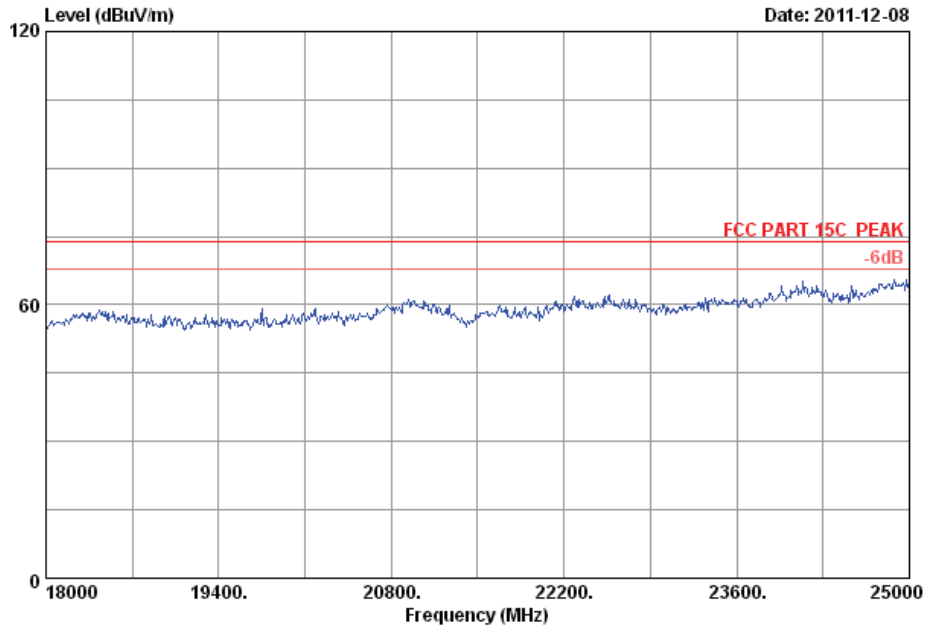
Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24*C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2402MHz



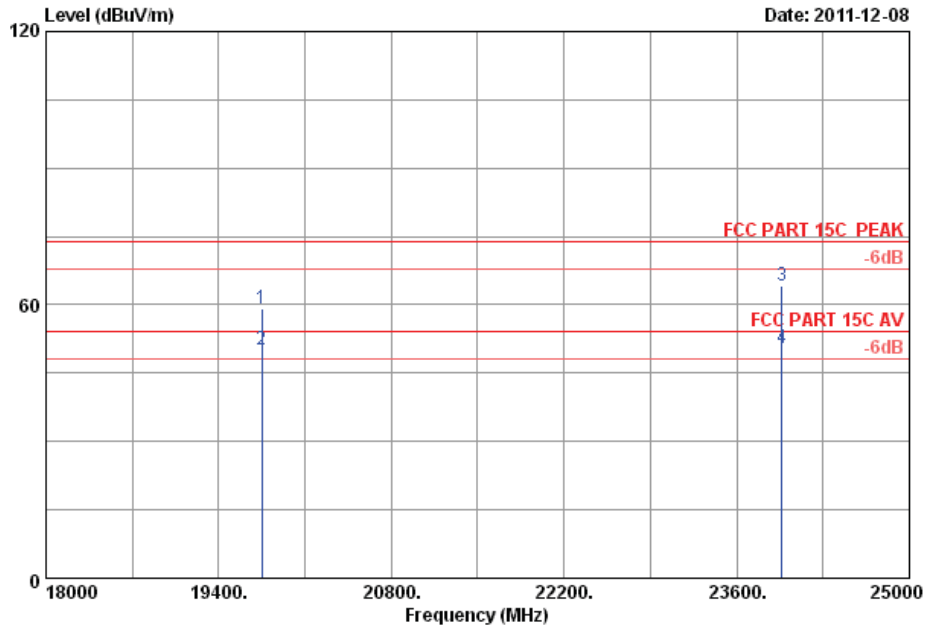
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	20954.000	61.26	74.00	12.74	Peak
2	20954.000	50.08	54.00	3.92	Average
3	23971.000	64.08	74.00	9.92	Peak
4	23971.000	50.58	54.00	3.42	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



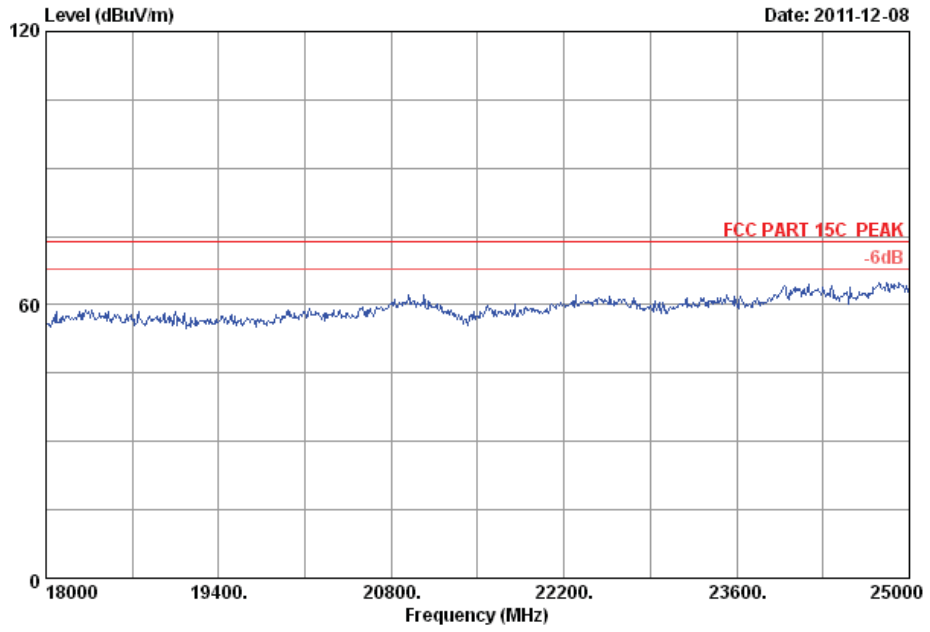
Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24*C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2402MHz



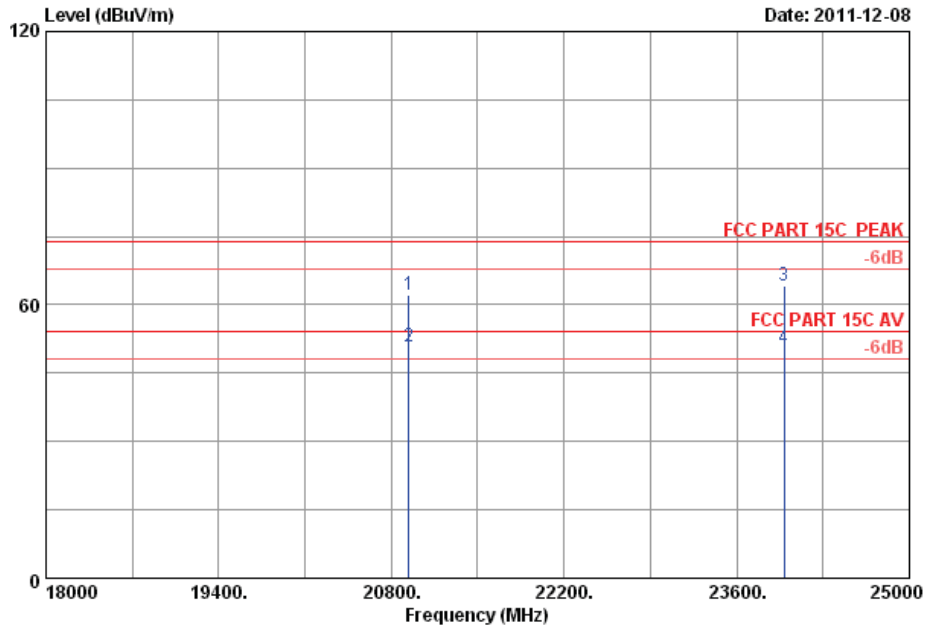
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission				
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 19750.000	59.09	74.00	14.91	Peak
2 19750.000	50.03	54.00	3.97	Average
3 23964.000	64.26	74.00	9.74	Peak
4 23964.000	50.51	54.00	3.49	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



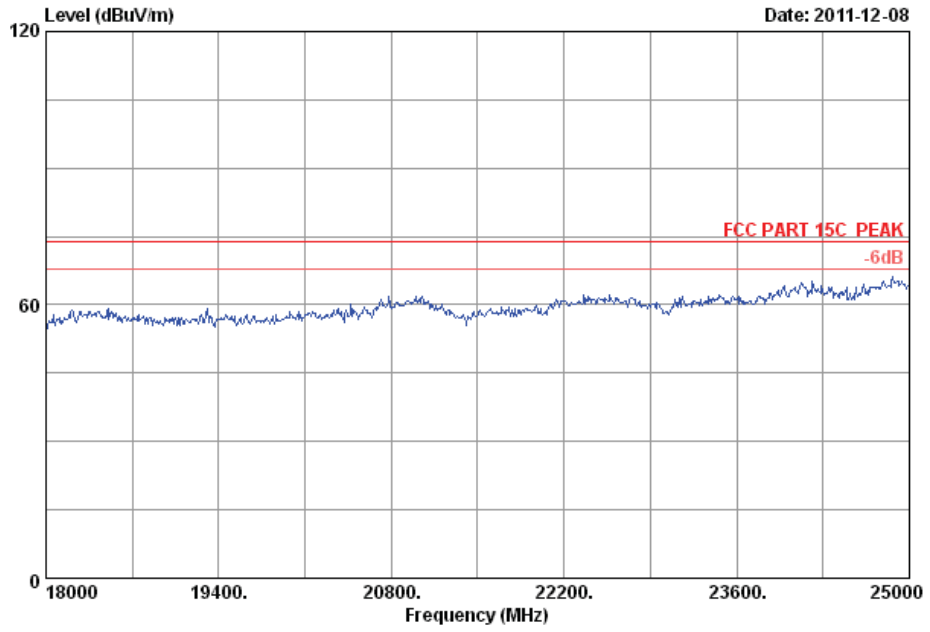
Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24°C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2442MHz



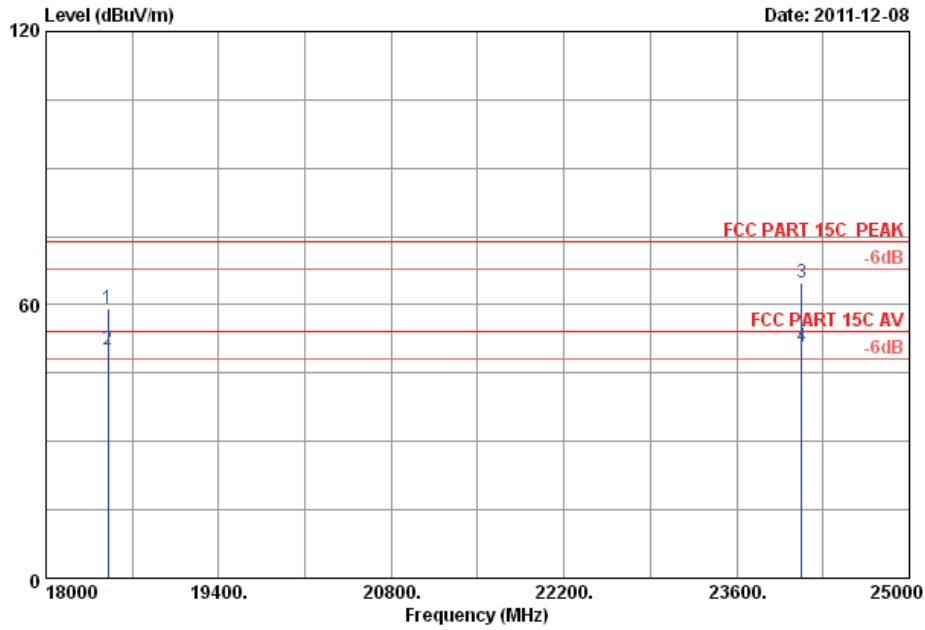
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

Emission				
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 20940.000	62.22	74.00	11.78	Peak
2 20940.000	50.75	54.00	3.25	Average
3 23985.000	64.17	74.00	9.83	Peak
4 23985.000	50.40	54.00	3.60	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



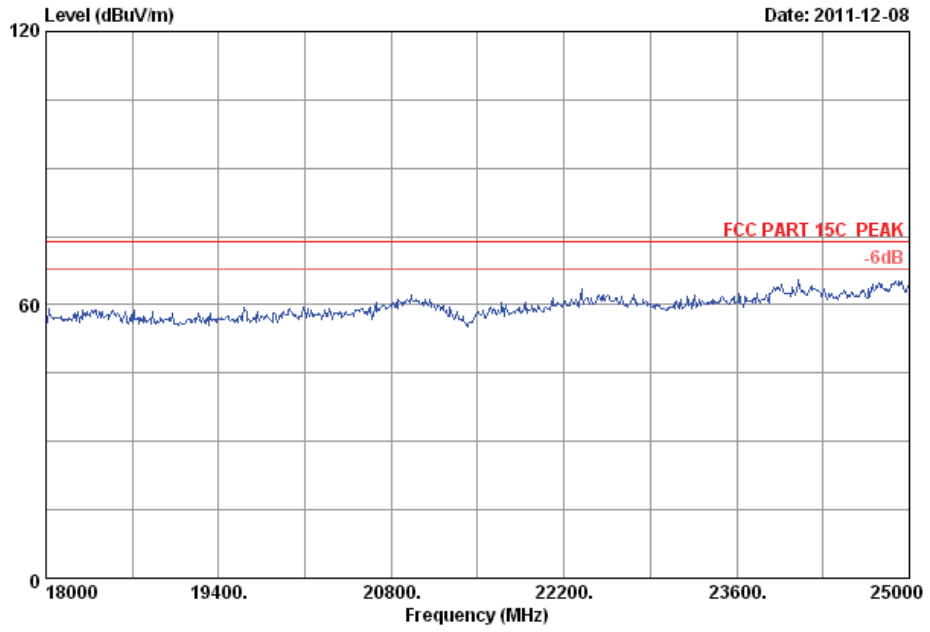
Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24*C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2442MHz



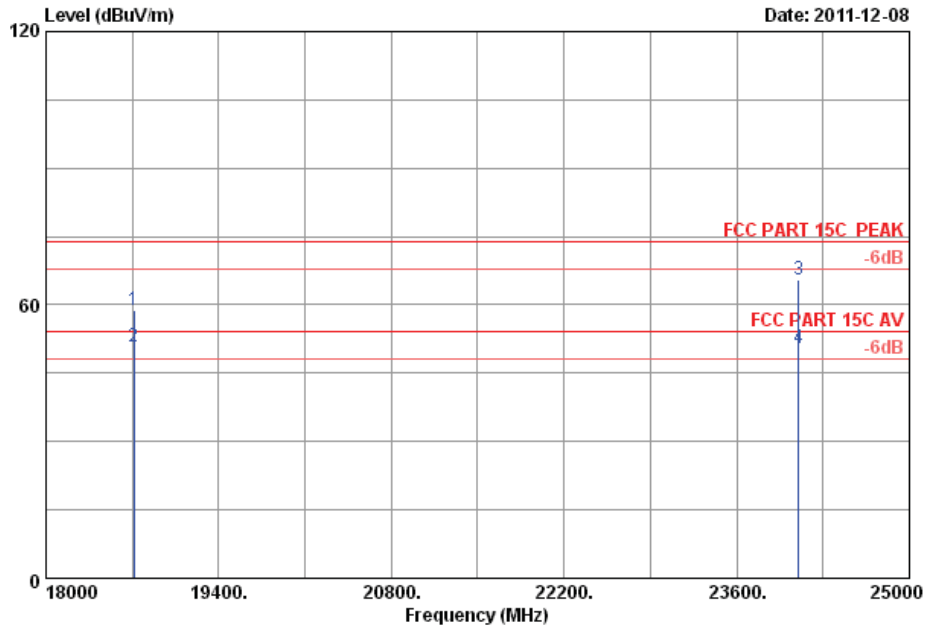
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2442MHz

Emission				
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 18504.000	59.21	74.00	14.79	Peak
2 18504.000	50.06	54.00	3.94	Average
3 24125.000	64.69	74.00	9.31	Peak
4 24125.000	50.75	54.00	3.25	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



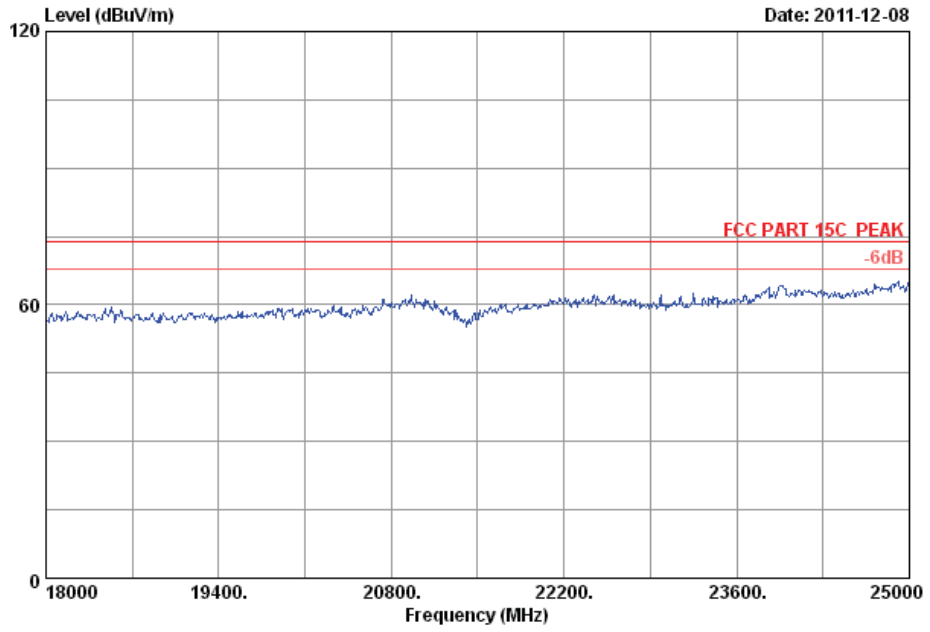
Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24*C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2478MHz



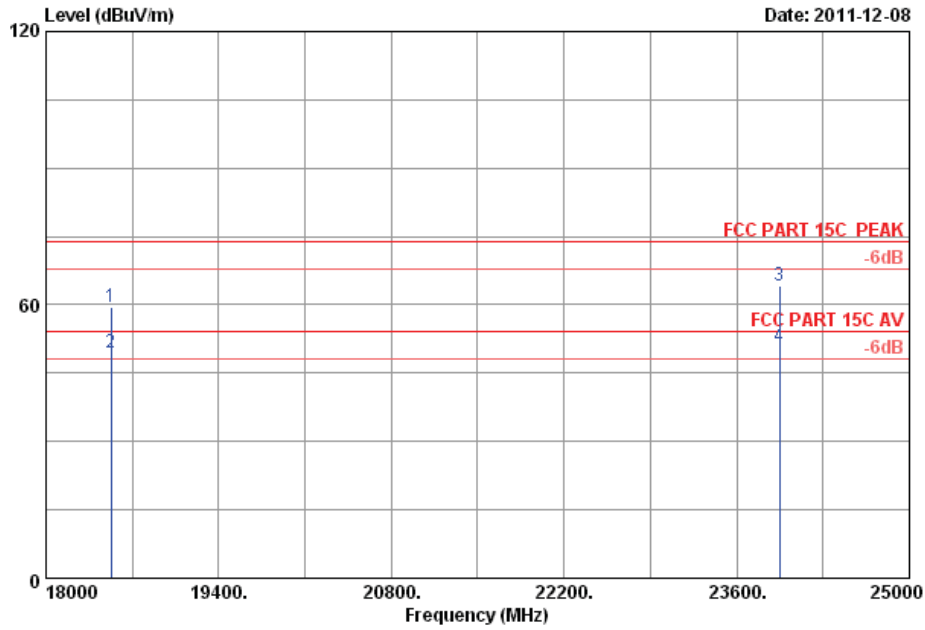
Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2478MHz

Emission				
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 18714.000	58.97	74.00	15.03	Peak
2 18714.000	50.83	54.00	3.17	Average
3 24104.000	65.41	74.00	8.59	Peak
4 24104.000	50.41	54.00	3.59	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 8593EM 24*C/51%
Engineer : Tony
EUT : 2.4G Receiver
Power : DC 5V From PC Input AC 120V/50Hz
M/N : DOK-D001
Test Mode : TX 2478MHz



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2478MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	18525.000	59.57	74.00	14.43	Peak
2	18525.000	49.45	54.00	4.55	Average
3	23950.000	64.29	74.00	9.71	Peak
4	23950.000	50.94	54.00	3.06	Average

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor

5. 20 DB BANDWIDTH TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyz	Rohde &Schwarz	ESL	1106/2011	Nov 29.11	1 Year

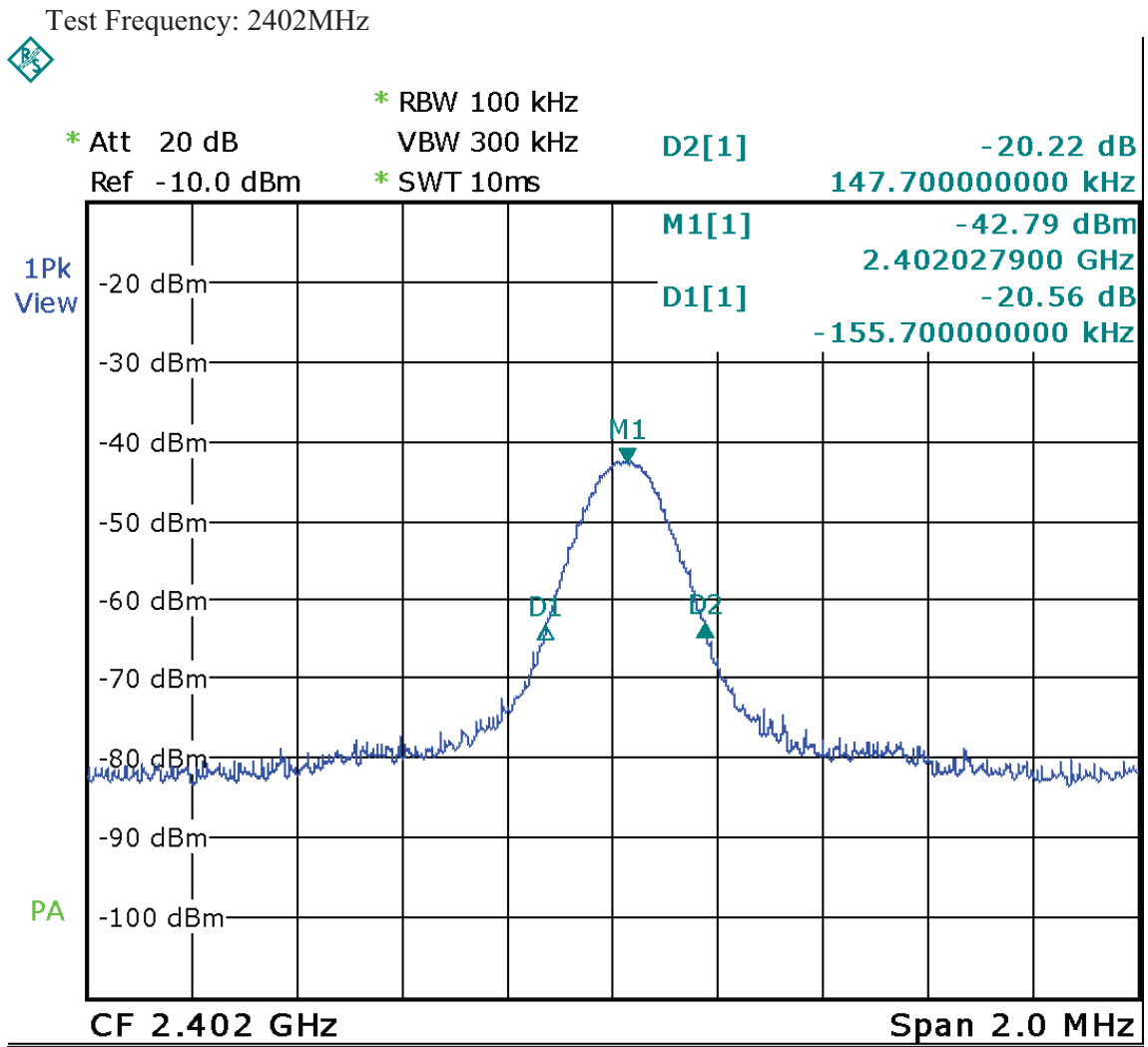
5.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Results

EUT: 2.4G Receiver		
M/N: DOK-D001		
Test date:2011-12-16	Pressure:101.4 kpa	Humidity:57 %
Tested by: Tony	Test site: RF site	Temperature : 24.1 °C

Frequency	20% bandwidth (MHz)	Lim it (KHz)
2402	0.303	N/A
2442	0.311	N/A
2478	0.123	N/A
Conclusion : PASS		



Test Frequency: 2442MHz



* RBW 100 kHz

* Att 20 dB

VBW 300 kHz

D2[1]

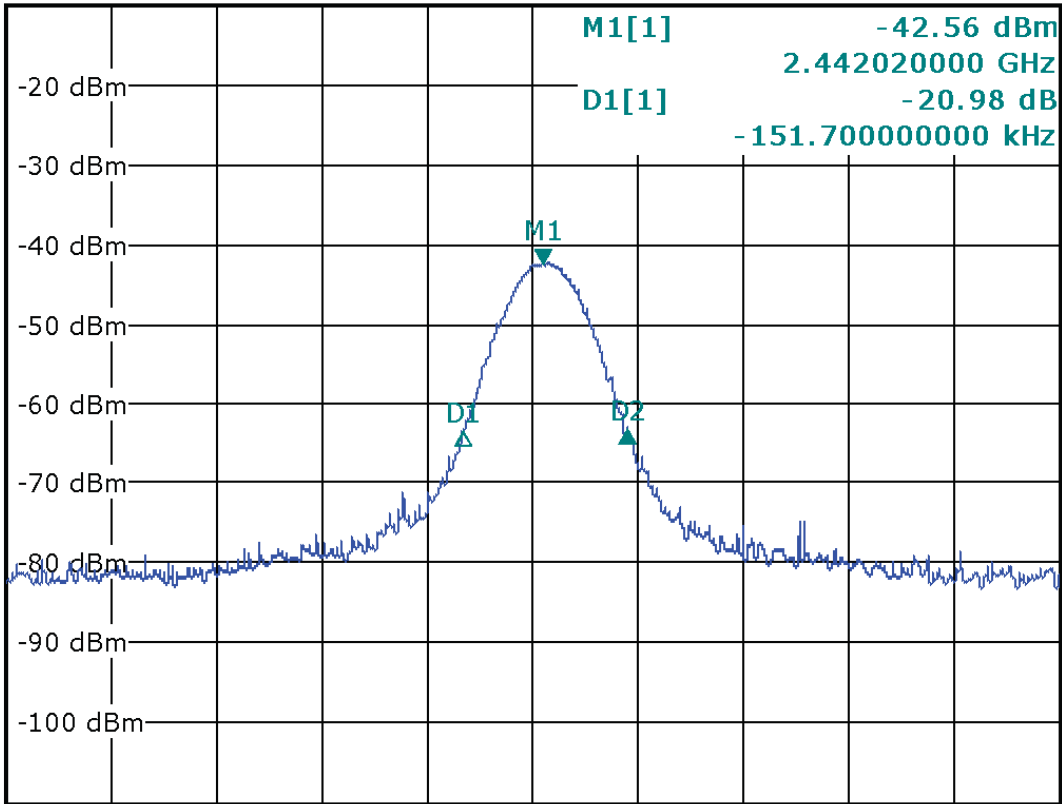
-20.70 dB

Ref -10.0 dBm

* SWT 10ms

159.70000000 kHz

1Pk
View



CF 2.442 GHz

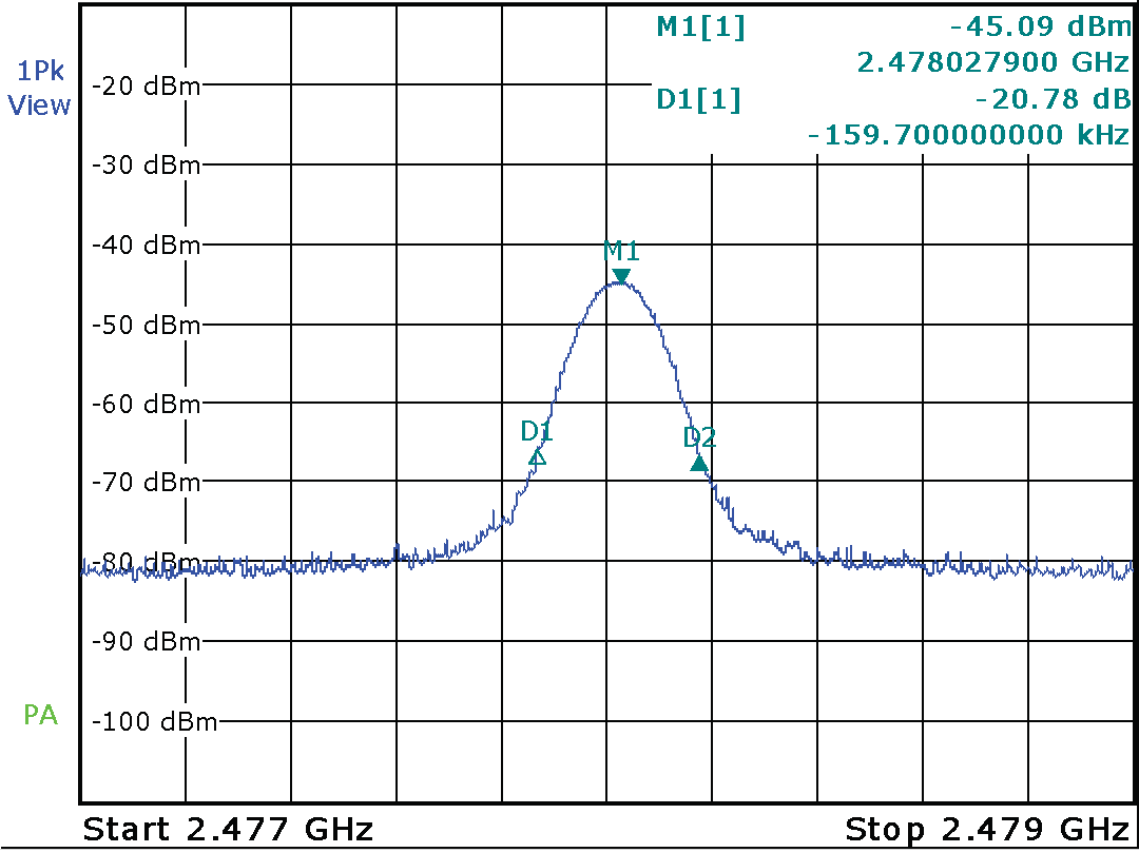
Span 2.0 MHz

PA

Test Frequency: 2478MHz



* Att 20 dB * RBW 100 kHz D2[1] -21.62 dB
Ref -10.0 dBm VBW 300 kHz 147.70000000 kHz
* SWT 10ms



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent E4446A		US44300459	May.08,11	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 11	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 11	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,11	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,11	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

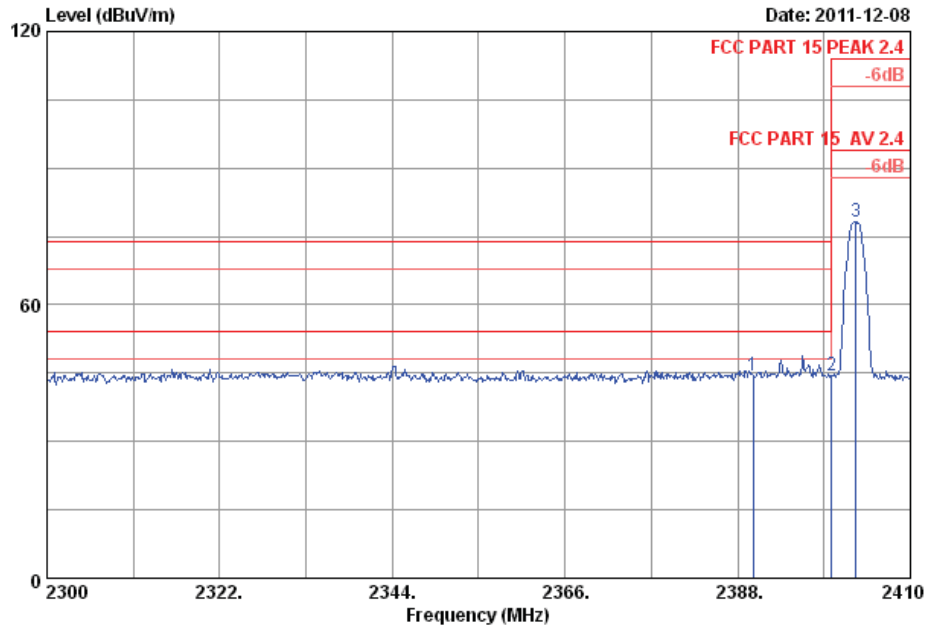
6.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was 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 emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) Average: RBW=1MHz ;VBW=10Hz, PK detector, Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

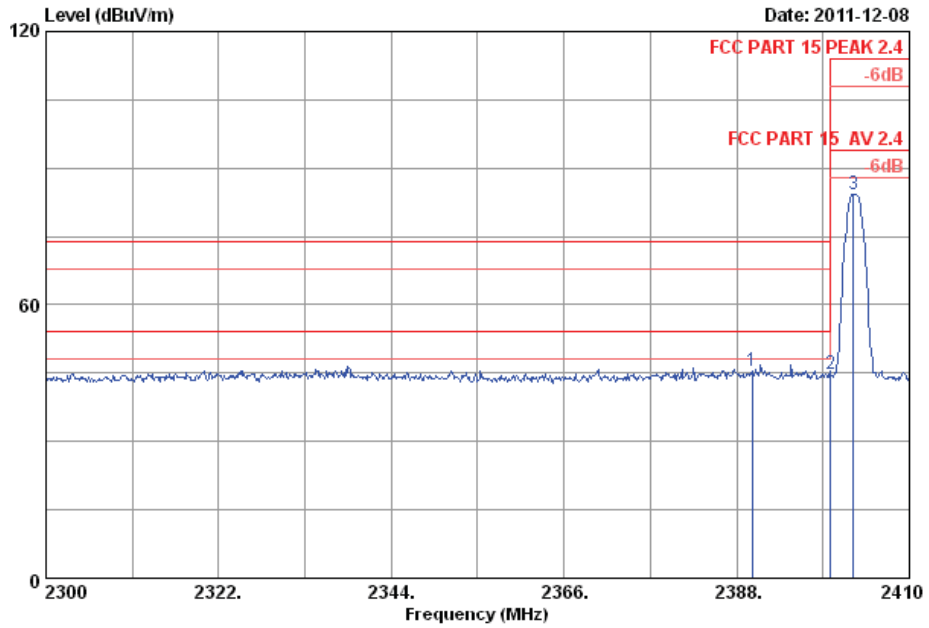
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	44.29	74.00	29.71	Peak
2	2400.000	44.31	74.00	29.69	Peak
3	2403.070	78.16	114.00	35.84	Peak

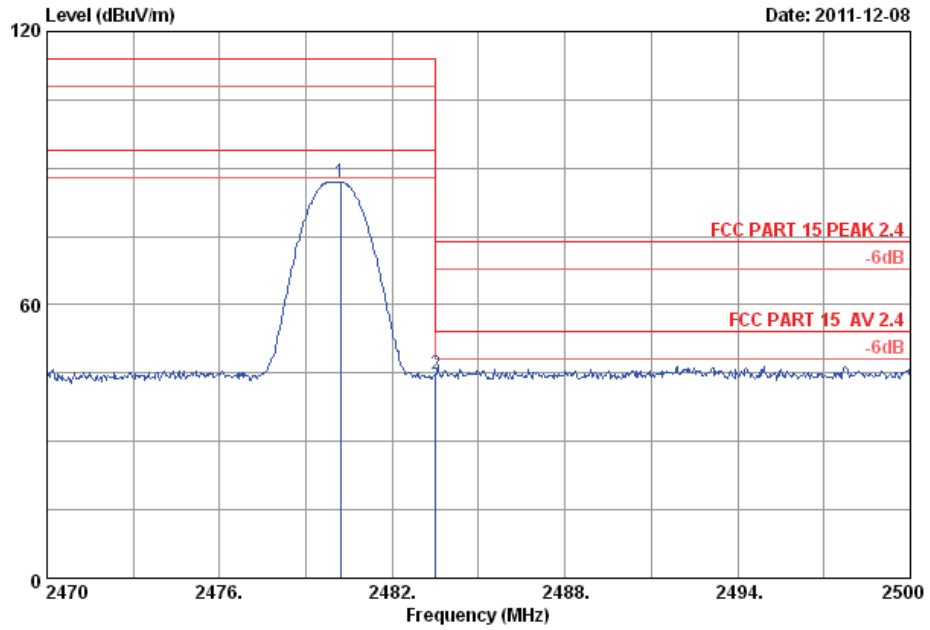
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Input AC 120V/50Hz
 M/N : DOK-D001
 Test Mode : TX 2402MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	45.37	74.00	28.63	Peak
2	2400.000	44.95	74.00	29.05	Peak
3	2402.850	84.33	114.00	29.67	Peak

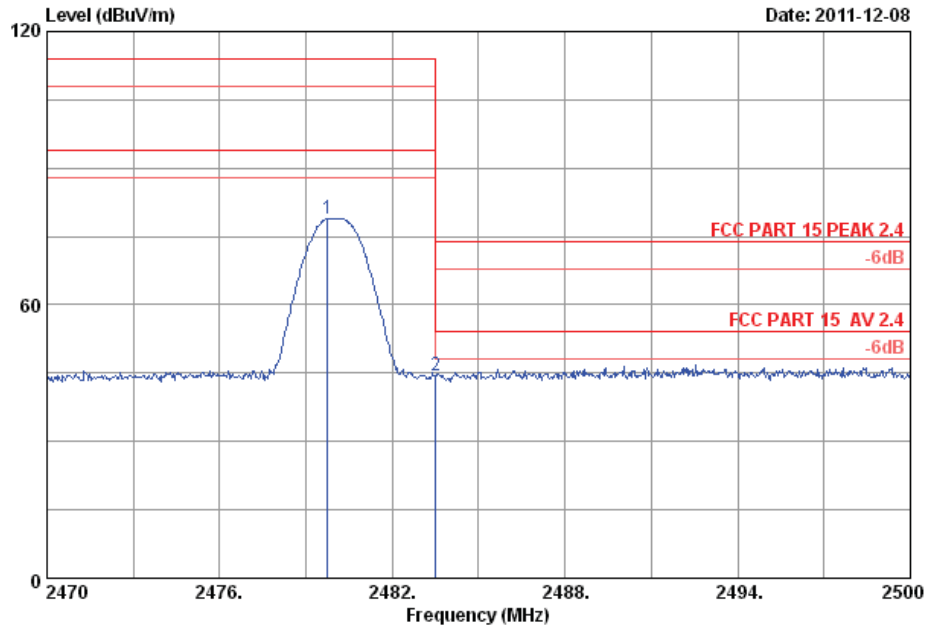
Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 M/N : DOK-DOO1
 Test Mode : TX 2478MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.200	86.95	114.00	27.05	Peak
2	2483.500	44.69	74.00	29.31	Peak

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor



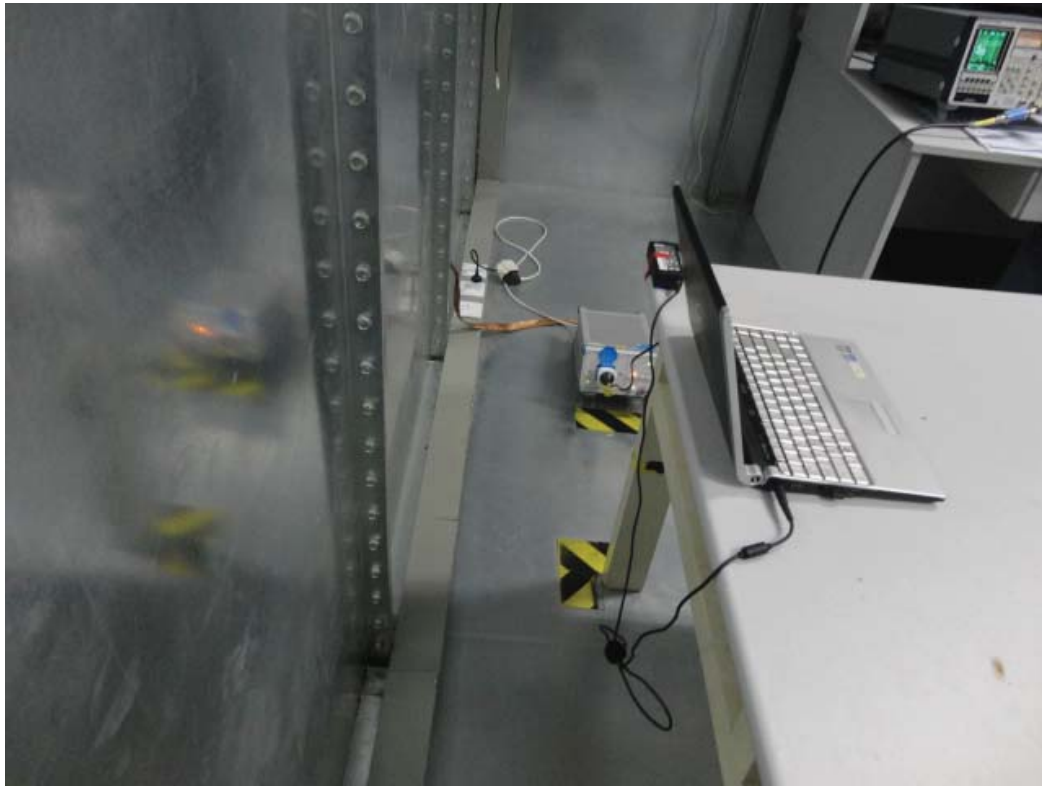
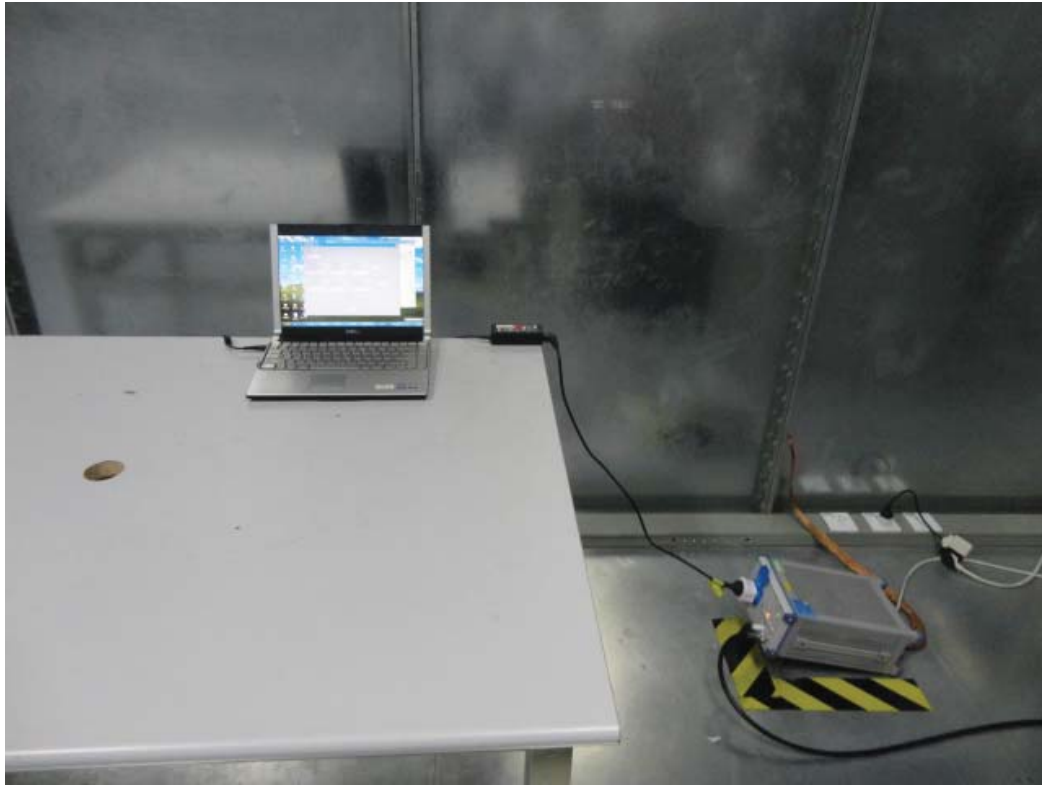
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 8593EM 24*C/51%
 Engineer : Tony
 EUT : 2.4G Receiver
 Power : DC 5V From PC Inpyt AC 120V/60Hz
 M/N : DOK-DOO1
 Test Mode : TX 2478MHz

Emission					
	Freq.	Level	Limits	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	2478.750	79.01	114.00	34.99	Peak
2	2483.500	44.34	74.00	29.66	Peak

Remarks: Emission Level = Antenna Factor + Cable Loss + Reading - AMP Factor

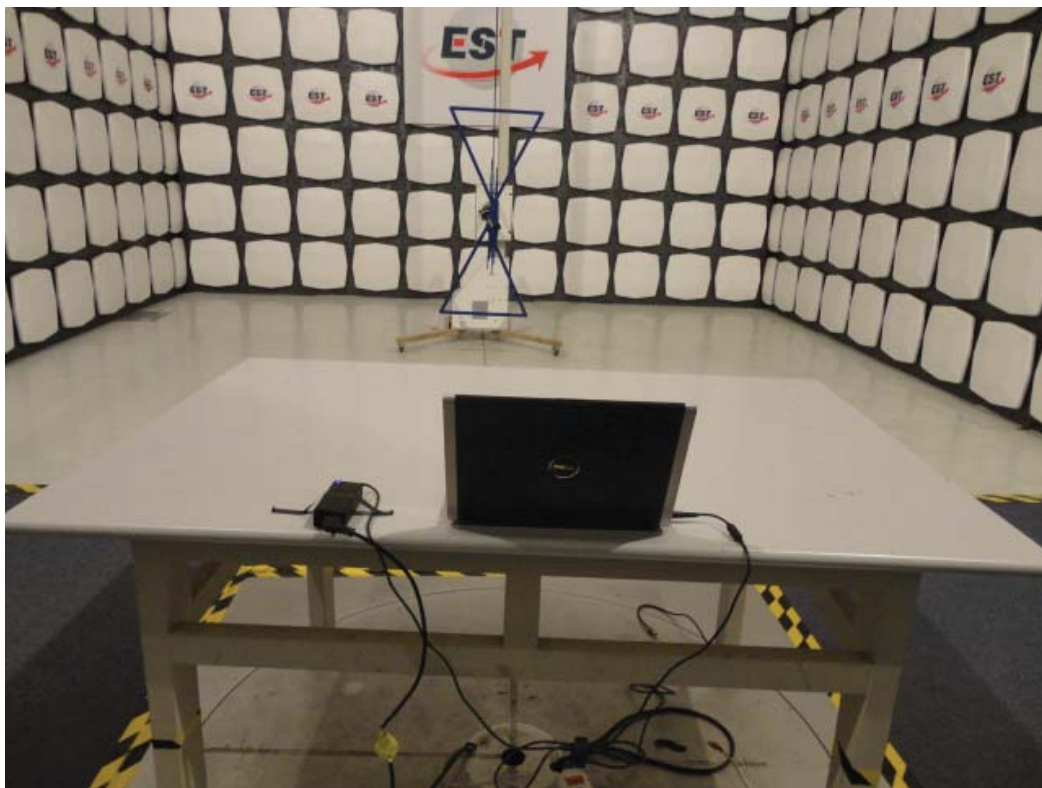
7. PHOTOGRAPH OF TEST

7.1.Photos of Conducted Emission Test(0.15-30MHz)

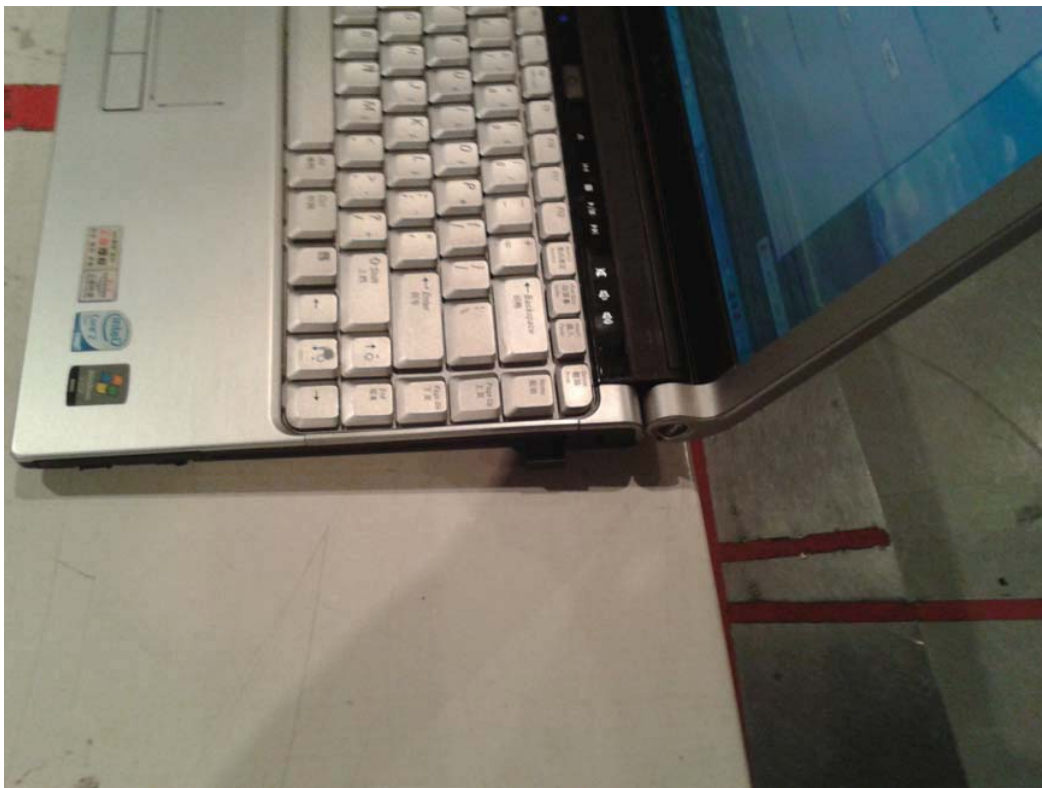
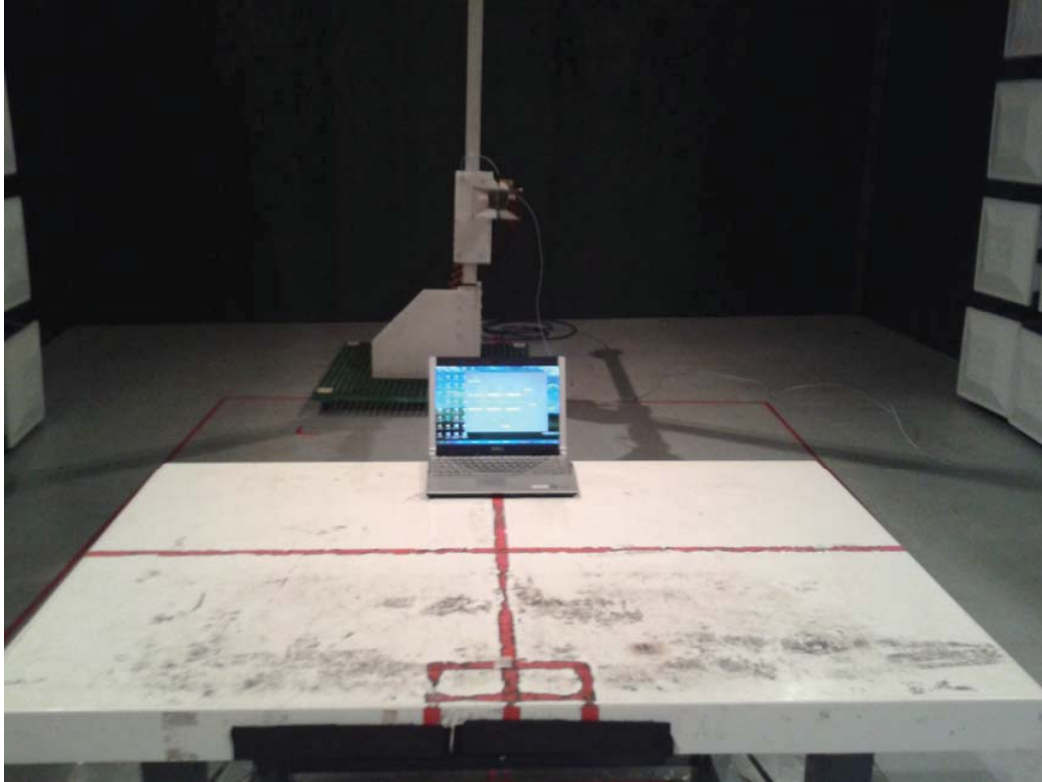




7.2. Photos of Radiated Emission Test
(30-1000MHz)



(Above 1000MHz)



8. PHOTOGRAPH OF EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT

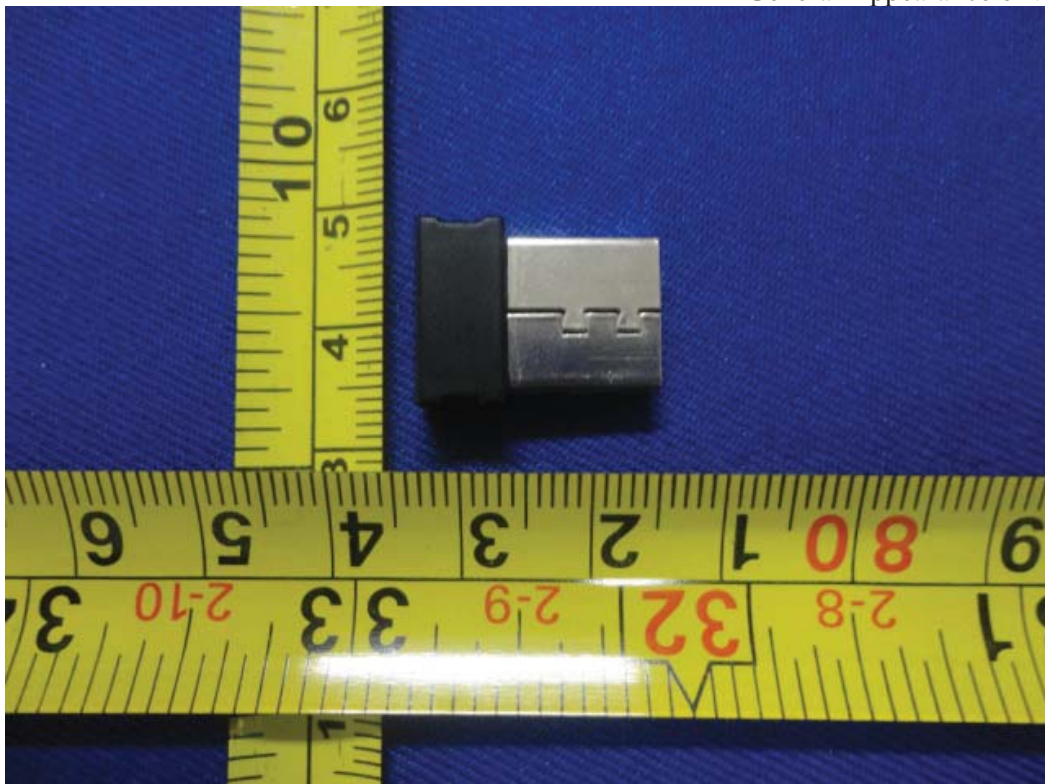


Figure 3
Iside of the EUT

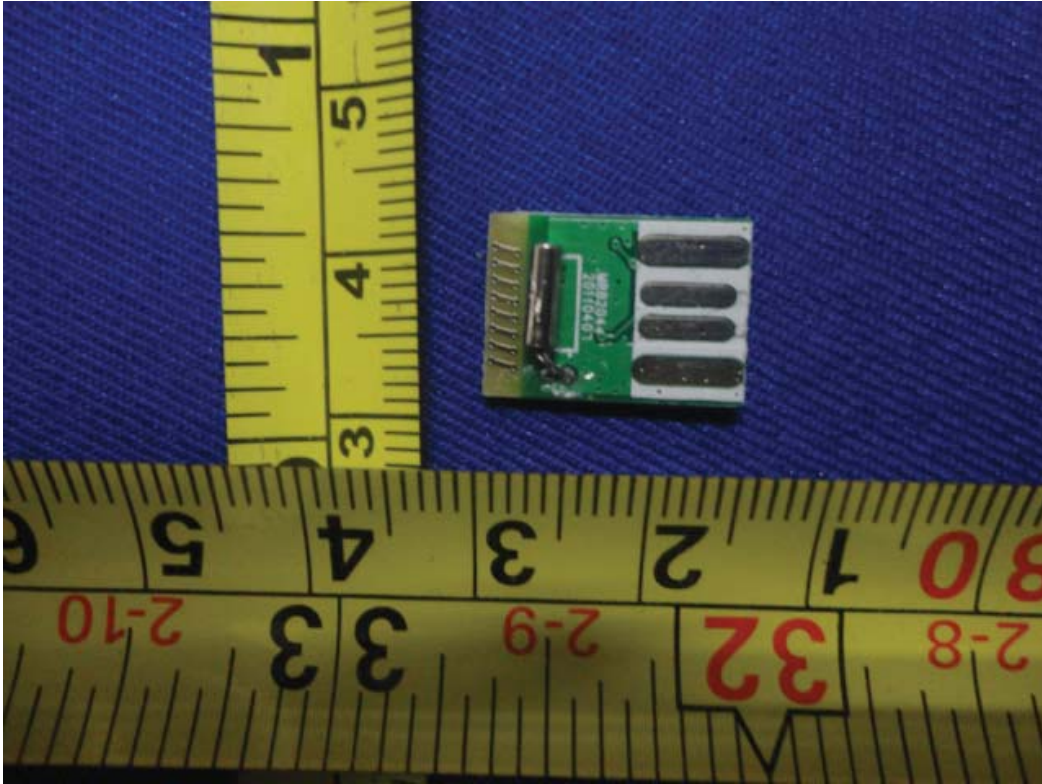


Figure 4
Iside of the EUT

