

TEST REPORT

Equipment Under Test : Globalsat Bluetooth Dongle
Model No. : BTA-804

Applicant : Globalsat Technology Corporation
Address of Applicant : 2-1F, No 16, Chien 8 Rd, Far East Century Park, Chung Ho City, Taipei Hsien 235 Taiwan, R.O.C.

Standards:

FCC Part 15 subpart C

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan E&E Services or testing done by SGS Taiwan E&E Services in connection with distribution or use of the product described in this report must be approved by SGS Taiwan E&E Services in writing.

Tested by : Alex Hsieh **Date** : Sep. 9, 2003

Approved by : Robert Chang **Date** : Oct. 2, 2003

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. (FCC Registration number: 573967)
 1F, No. 134, Wukung Road, Wuku industrial zone
 Taipei county , Taiwan , R.O.C.
 Telephone : +886-2-2299-3279
 Fax : +886-2-2298-2698
 Internet : <http://www.sgs.com.tw>

1.2 Details of Applicant

Applicant : Globalsat Technology Corporation
Address of Applicant: 2-1F, No 16, Chien 8 Rd, Far East Century
 Park, Chung Ho City, Taipei Hsien 235
 Taiwan , R.O.C.
Contact: Ray Tsai
Telephone: +886-2-82263799 ext.206

1.3 Description of EUT(s)

1	Product name	Globalsat Bluetooth Dongle
2	Product ID	BTA-804
3	Supply Voltage	DC 5.0V from USB
4	Antenna Gain	0 dbi
5	Carrier Frequency	2402MHz to 2480MHz
6	Modulation Method	GFSK, 1Mbps, 0.5BT Gaussian
7	Hopping	1600hops/sec, 1MHz channel space
8	Output Interface	USB
9	Operation Temperature	-20 to +55 degree
10	Compliant	Bluetooth Specification Ver1.1

1.4 Operation Procedure

The Bluetooth is a FHSS system, and the output power and operating frequency are NOT End-user adjustable. Applicant offer a engineering software "BlueSuite" installed on PC to control the EUT. Setting of the software parameters are set as default. Operating frequency are set as testing required. The output power is set as Ext=255, Int=60 (at max. power). Inside the BlueSuite software, there is a BlueTest to control EUT hopping on or off. We select "Txdata1" (which modulated by pseudo-random sequence) and assign the transmit channel(as below). When the EUT is required to transmit in hopping on mode. We select "Txdata2"

The lowest operating frequency within Bluetooth specification is 2402Mhz, and highest operating frequency is 2480Mhz. So the frequency above are used as the lowest and highest frequency in the testing, and the middle frequency is set as 2441Mhz.

1.5 Testing Method

The testing standard follows CFR 47, Part 15.247 and ANSI C63.4 1992, and measurement method according to Public Notice DA00-705 (March 2000).

The Testing procedure is as following:

- a. The EUT was plug in the USB port of PC and placed on the top of a rotating table 0.8 meters above the ground at a 3m chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.
4. During the Output power testing, the manufacturer attach a test fixture which is a short cable that replace the antenna. So we use conducted method to measure the power. Hence the EIRP is the output power plus the antenna gain in dBi. Due to cable loss, the real value will equal to measured value(show on the instrument) add cable loss.

2.Summary of Results

subclause	Parameter to be measures	Verdict	Page
15.207	Conducted emission Limit	<i>PASS</i>	8
15.209	Radiated emission Limits, general requirement	<i>PASS</i>	11
15.247(a)(1)	Channel Spacing	<i>PASS</i>	18
15.247(a)(1)(ii)	20db bandwidth / No. of channels	<i>PASS</i>	19
15.247(a)(1)(ii)	Average Time of Occupancy	<i>PASS</i>	24
15.247(b)(1)	Peak Output power	<i>PASS</i>	28
15.247(c)	Band-Edge Emission	<i>PASS</i>	31
15.247(c)	Spurious Emission under 25Ghz	<i>PASS</i>	33

3. Instruments List

Instrument	Model	Serial number	Calibration date
Desktop PC	HP Pavillion 723D	N/A	N/A
Spectrum Analyzer	Agilent E7405A	US40240202	Jun 02, 2003
Spectrum Analyzer	R&S FSP 40	100034	Mar. 27, 2003
Antenna	Schwarzbeck BBHA9170A	184/185	Jul. 04, 2003
Antenna	Schwarzbeck BBHA9120A	309/320	Feb 24, 2003
Antenna	Schwarzbeck VULB9163	152	Jul. 07, 2003
Signal generator	R&S SMR 40	100210	Feb. 11, 2003
EMC Analyzer	HP 8594EM	3624A00203	Dec. 13, 2002
EMI Test Receiver	R&S ESCS 30	828985/004	Oct. 11, 2002
Transient Limiter	HP 11947A	3107A02062	Jul. 22, 2003
L.I.S.N	Rolf-Heine NNB-2/16Z	99012	Oct. 08, 2002

4. Measurements

4.1 Conducted emission Limits

SUBCLAUSE 15.207

Product Name: GlobalSat Bluetooth Dongle Test Date: September 02 2003
 Model No.: BTA-804 Tester : Peter Huang
 Test Mode: Operation mode Temperature 22 °C
 Test Result: PASS Humidity: 48 %

Main Terminals:L

FREQ MHz	QP1 dBuV	AVG1 dBuV	Factor	QP2 dBuV	AVG 2	QP Limit	AV Limit	QP Offset	AV Offset
0.152	44.3	38.1	3.00	47.30	41.10	65.90	55.90	-18.61	-14.81
0.554	36.1	29.1	2.89	38.99	31.99	56.00	46.00	-17.01	-14.01
1.846	35.3	33.2	3.05	38.35	36.25	56.00	46.00	-17.65	-9.75
3.604	33.4	30.7	3.15	36.55	33.85	56.00	46.00	-19.45	-12.15
6.002	27.9	25.7	3.22	31.12	28.92	60.00	50.00	-28.88	-21.08
10.16	31.8	27.3	3.30	35.10	30.60	60.00	50.00	-24.90	-19.40

1. "-" denotes the emission level was - 10 dB beneath the Average limit,so nothing need to re-check anymore.

2. QP1/ AVG1 value means the QP/AV reading without the factor.

3. QP2/AVG2 value means the QP/AV final reading with the factor.

Product Name: GlobalSat Bluetooth Dongle

Test Date: September 02 2003

Model No.: BTA-804

Tester : Peter Huang

Test Mode: Operation mode

Temperature 22 °C

Test Result: PASS

Humidity: 48 %

Main Terminals:N

FREQ MHz	QP1 dBuV	AVG1 dBuV	Factor	QP2 dBuV	AVG 2	QP Limit	AV Limit	QP Offset	AV Offset
0.152	47.4	41.3	2.996	50.4	44.3	65.9	55.9	-15.5	-11.61
0.55	36.10	26.60	2.89	38.99	29.49	56.00	46.00	-17.01	-16.51
1.02	28.10	24.70	2.80	30.90	27.50	56.00	46.00	-25.10	-18.50
3.60	35.60	34.30	3.15	38.75	37.45	56.00	46.00	-17.25	-8.55
5.81	26.40	22.70	3.22	29.62	25.92	60.00	50.00	-30.38	-24.08
10.16	27.30	21.60	3.30	30.60	24.90	60.00	50.00	-29.40	-25.10

1. " -" denotes the emission level was - 10 dB beneath the Average limit,so nothing need to re-check anymore.

2. QP1/ AVG1 value means the QP/AV reading without the factor.

3. QP2/AVG2 value means the QP/AV final reading with the factor.

4.1.1 Limits (CISPR 22)

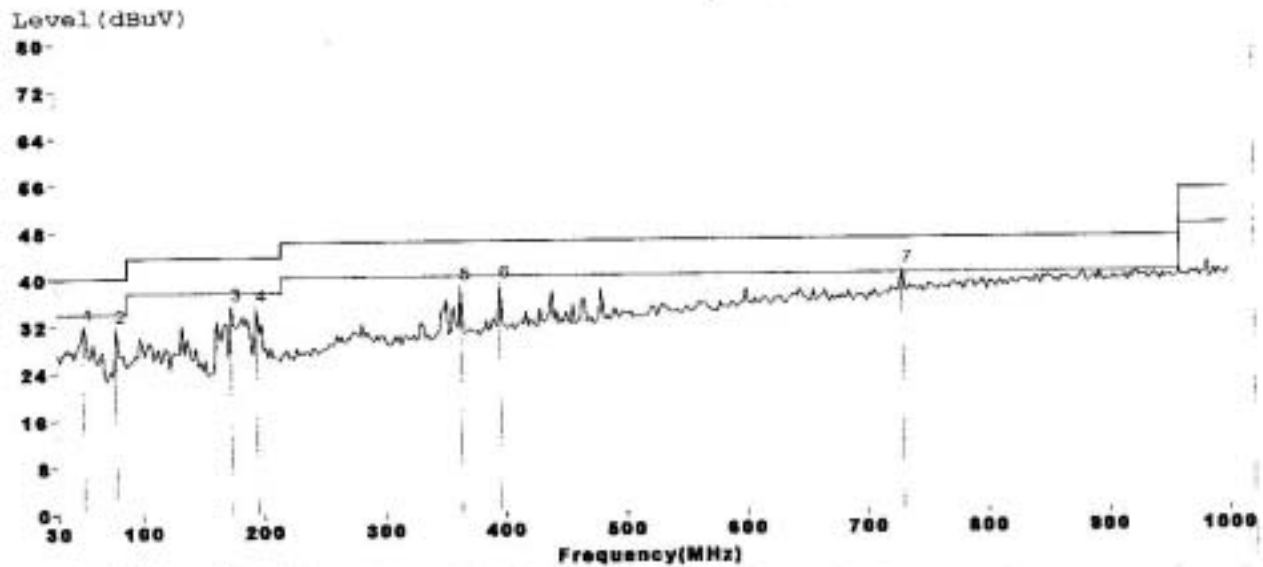
FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

4.2 Radiated emission Limits, general requirement SUBCLAUSE 15.209

1. Transmit at 2402Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Vertical**

Customer:
Model : USB Dongle
Spec. :
Ser. No.: 2402 MHz
Limit : FCC_B

Date: 2003-09-03 Time: 11:11
Polar. : Vertical- 3M
Report No.:
File : -1
Tester : Alex
Tmp. (C): 22.0 Humid. (%): 53



MEMO:

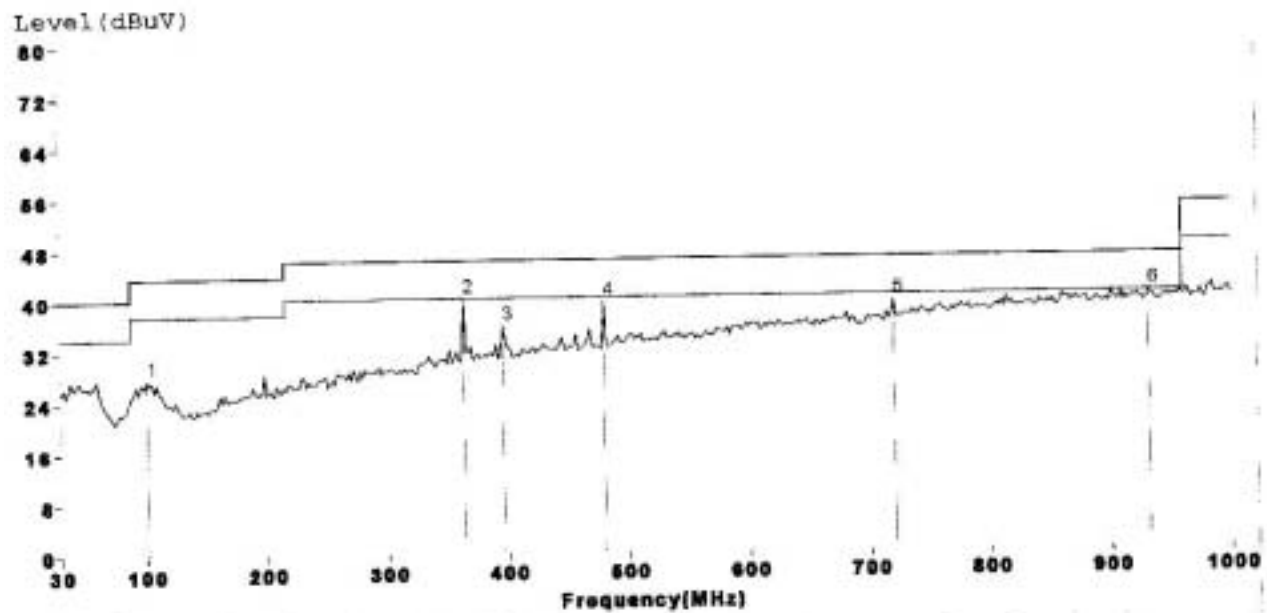
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	51.34	32.16	-7.84	40.00	19.70	11.94	0.53	0.00
2	78.50	31.74	-8.26	40.00	24.01	7.07	0.66	0.00
3	173.56	35.31	-8.19	43.50	25.66	8.73	0.92	0.00
4	194.90	35.07	-8.43	43.50	23.83	10.26	0.98	0.00
5	363.68	38.44	-7.56	46.00	22.03	14.95	1.47	0.00
6	396.66	38.67	-7.33	46.00	21.54	15.54	1.59	0.00

Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
51.34	32.16	-7.04	19.70	11.94	0.53
396.66	38.67	-7.33	21.54	15.54	1.59

2. Transmit at 2402Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Horizontal**

Customer:
 Model :USB Dungle
 Spec. :
 Ser. No.:2402 MHz
 Limit :FCC_B

Date:2003-09-03 Time:11:10
 Polar. :Horizontal- 3M
 Report No.:
 File :-1
 Tester :Alex
 Tmp.(C):22.0 Humid.(%):53



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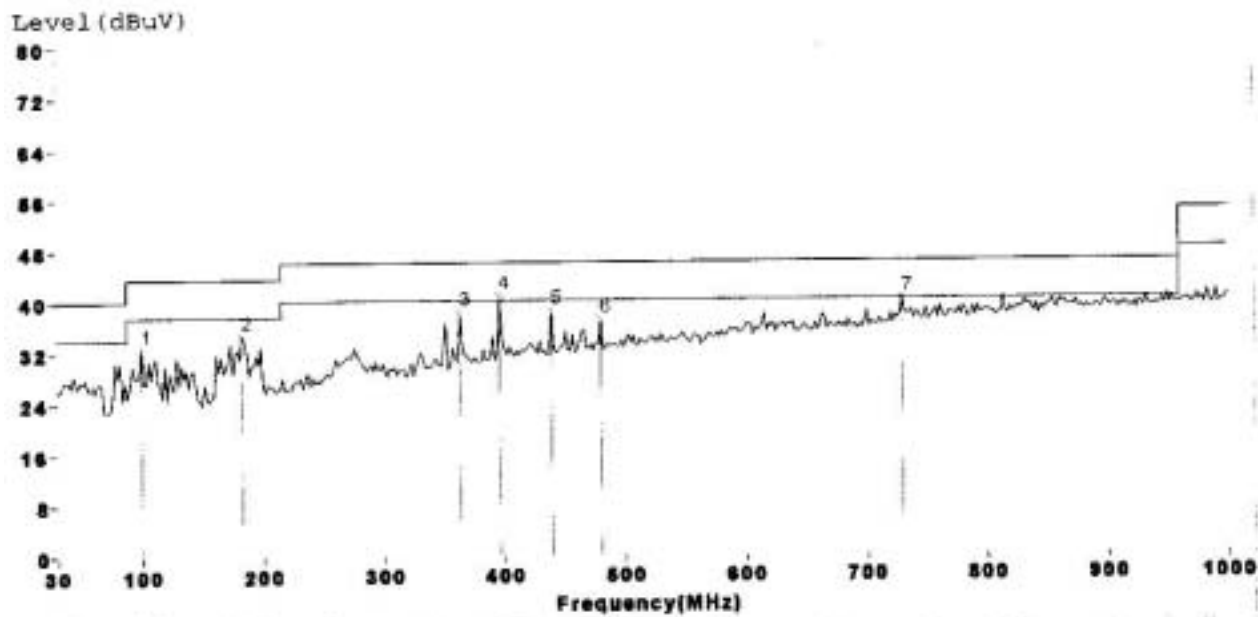
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	101.78	27.65	-15.85	43.50	15.16	11.75	0.74	0.00
2	363.68	39.94	-6.06	46.00	23.53	14.95	1.47	0.00
3	396.66	35.66	-10.34	46.00	18.53	15.54	1.59	0.00
4	480.08	39.29	-6.71	46.00	20.68	16.80	1.80	0.00
5	720.64	39.07	-6.93	46.00	16.59	20.22	2.27	0.00
6	932.10	39.99	-6.01	46.00	14.92	22.43	2.64	0.00

Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
932.10	39.99	-6.01	14.92	22.43	2.64
363.68	39.94	-6.06	23.53	14.95	1.47

3. Transmit at 2441Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Vertical**

Customer:
 Model :USB Dungle
 Spec. :
 Ser. No.:2441 MHz
 Limit :FCC_B

Date:2003-09-03 Time:11:22
 Polar. :Vertical- 3M
 Report No.:
 File :-1
 Tester :Alex
 Tmp.(C):22.0 Humid.(%):53



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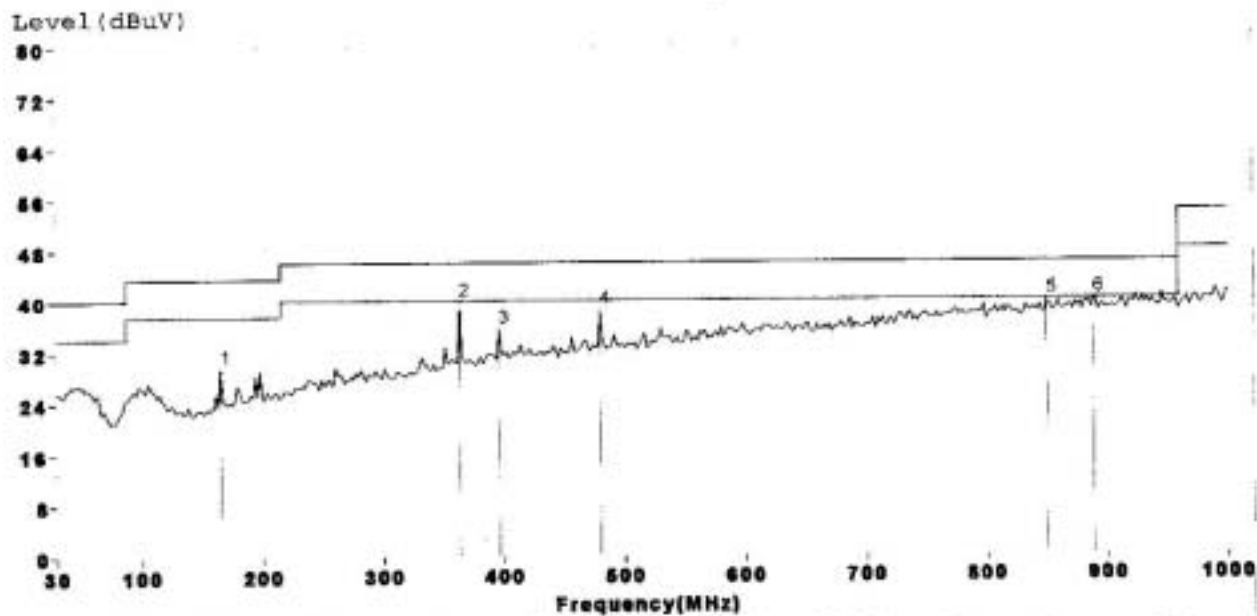
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	99.84	32.89	-10.61	43.50	20.25	11.90	0.74	0.00
2	183.26	34.70	-8.80	43.50	24.19	9.56	0.95	0.00
3	363.68	38.37	-7.63	46.00	21.96	14.95	1.47	0.00
4	396.66	40.99	-5.01	46.00	23.86	15.54	1.59	0.00
5	439.34	38.53	-7.47	46.00	20.63	16.21	1.70	0.00
6	480.08	37.08	-8.92	46.00	18.48	16.80	1.80	0.00

Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
396.66	40.99	-5.01	23.86	15.54	1.59
439.34	38.53	-7.47	20.63	16.21	1.70

4. Transmit at 2441Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Horizontal**

Customer:
 Model :USB Dungle
 Spec. :
 Ser. No.:2441 MHz
 Limit :FCC_B

Date:2003-09-03 Time:11:21
 Polar. :Horizontal- 3M
 Report No.:
 File :-1
 Tester :Alex
 Temp.(C):22.0 Humid.(%):53



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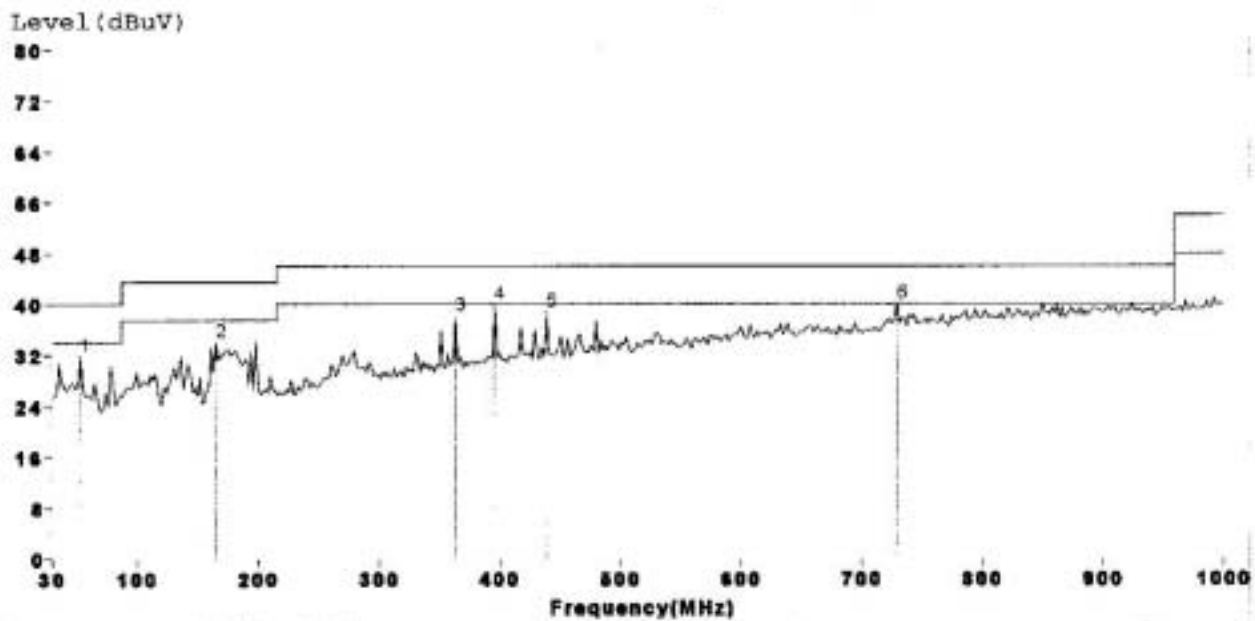
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	165.80	29.38	-14.12	43.50	20.21	8.27	0.90	0.00
2	363.68	39.74	-6.26	46.00	23.33	14.95	1.47	0.00
3	396.66	35.58	-10.42	46.00	18.45	15.54	1.59	0.00
4	480.08	38.46	-7.54	46.00	19.86	16.80	1.80	0.00
5	850.62	39.66	-6.34	46.00	15.49	21.67	2.51	0.00
6	889.42	39.82	-6.18	46.00	15.13	22.14	2.56	0.00

Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
889.42	39.82	-6.18	15.13	22.14	2.56
363.68	39.74	-6.26	23.33	14.95	1.47

5. Transmit at 2480Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Vertical**

Customer:
Model : USB Dongle
Spec. :
Ser. No.: 2480 MHz
Limit : FCC_B

Date: 2003-09-03 Time: 11:29
Polar. : Vertical- 3M
Report No.:
File : -1
Tester : Alex
Tmp. (C): 22.0 Humid. (%): 53



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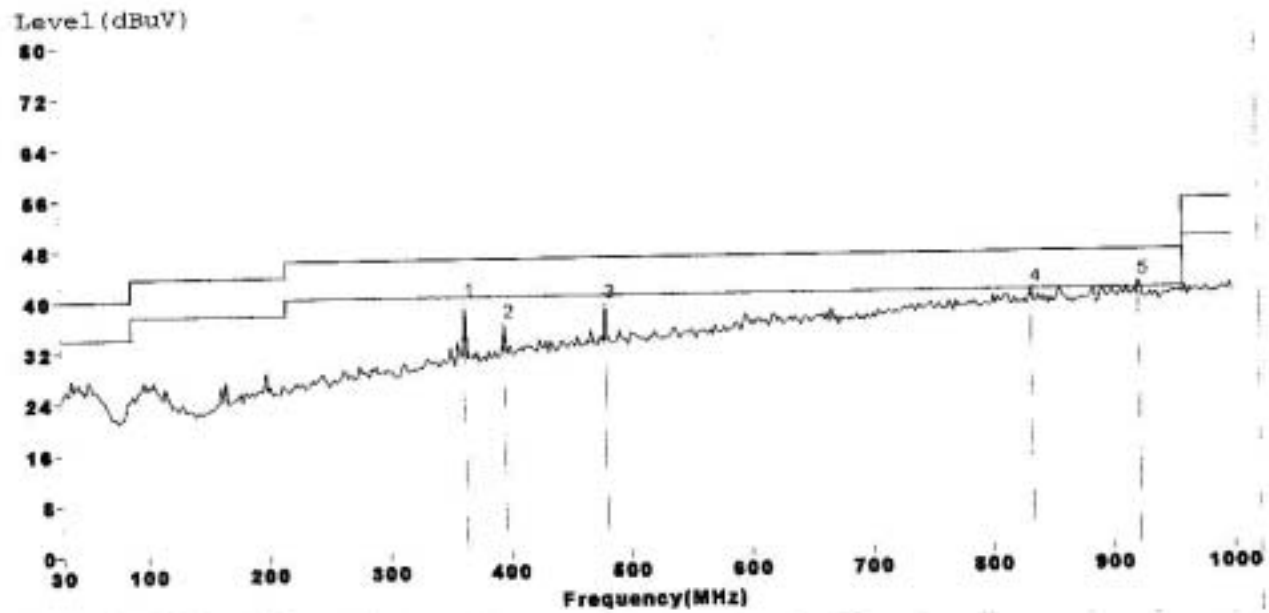
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	53.28	31.72	-8.28	40.00	19.34	11.84	0.54	0.00
2	165.80	33.95	-9.55	43.50	24.78	8.27	0.90	0.00
3	363.68	37.98	-8.02	46.00	21.56	14.95	1.47	0.00
4	396.66	39.78	-6.22	46.00	22.64	15.54	1.59	0.00
5	439.34	38.62	-7.38	46.00	20.71	16.21	1.70	0.00
6	730.34	39.86	-6.14	46.00	17.00	20.57	2.29	0.00

Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
730.34	39.86	-6.14	17.00	20.57	2.29
396.66	39.78	-6.22	22.64	15.54	1.59

6. Transmit at 2480Mhz, The Spectrum setting : RBW=120Khz , VBW=120Khz, **Horizontal**

Customer:
 Model : USB Dungle
 Spec. :
 Ser. No.: 2480 MHz
 Limit : FCC_B

Date: 2003-09-03 Time: 11:28
 Polar. : Horizontal- 3M
 Report No.:
 File : -1
 Tester : Alex
 Temp. (C): 22.0 Humid. (%): 53



MEMO:

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Factor	Other Factor
	MHz	dB	dB	dB	dB	dB	dB	dB
1	363.66	39.27	-6.73	46.00	22.86	14.95	1.47	0.00
2	396.66	35.74	-10.26	46.00	18.61	15.54	1.59	0.00
3	480.08	38.58	-7.42	46.00	19.98	16.80	1.80	0.00
4	833.16	40.01	-5.99	46.00	16.13	21.39	2.48	0.00
5	922.40	40.96	-5.04	46.00	15.90	22.45	2.62	0.00

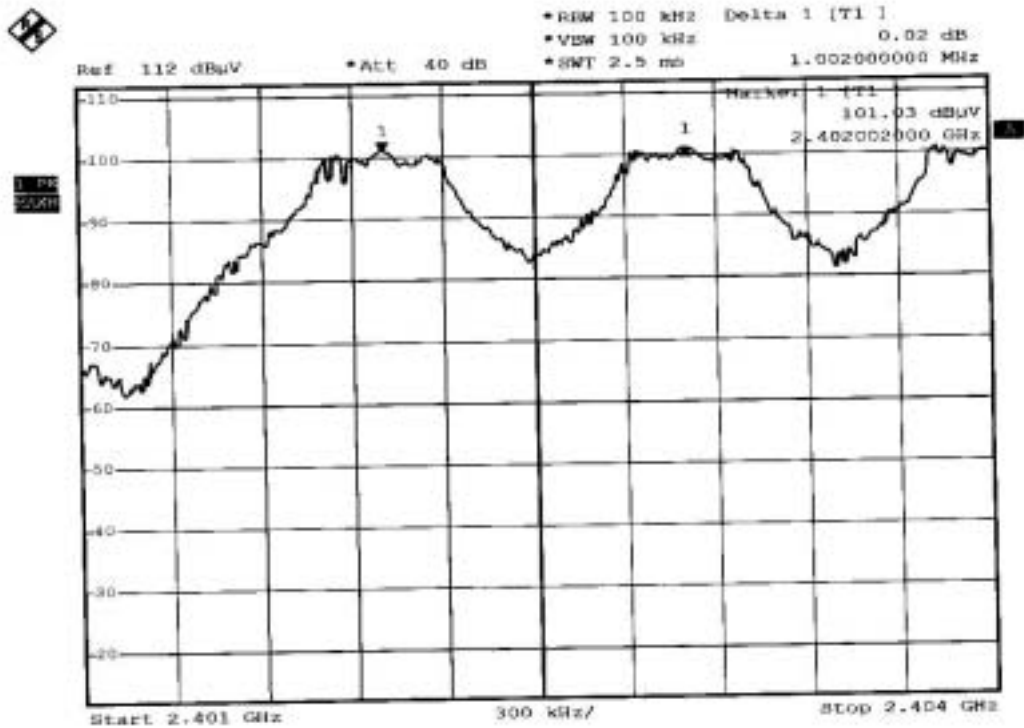
Freq	Level	Over Limit	Read Level	Antenna Factor	Cable Factor
922.40	40.96	-5.04	15.90	22.45	2.62
833.16	40.01	-5.99	16.13	21.39	2.48

4.2.1 Limits

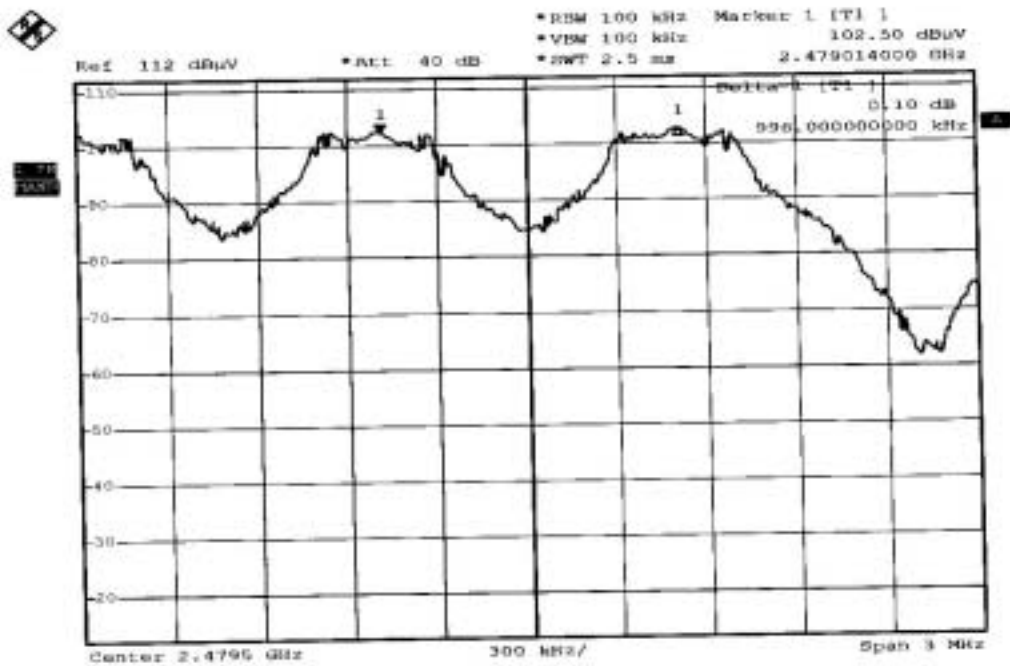
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

4.3 Channel Spacing

SUBCLAUSE 15.247(a)(1)



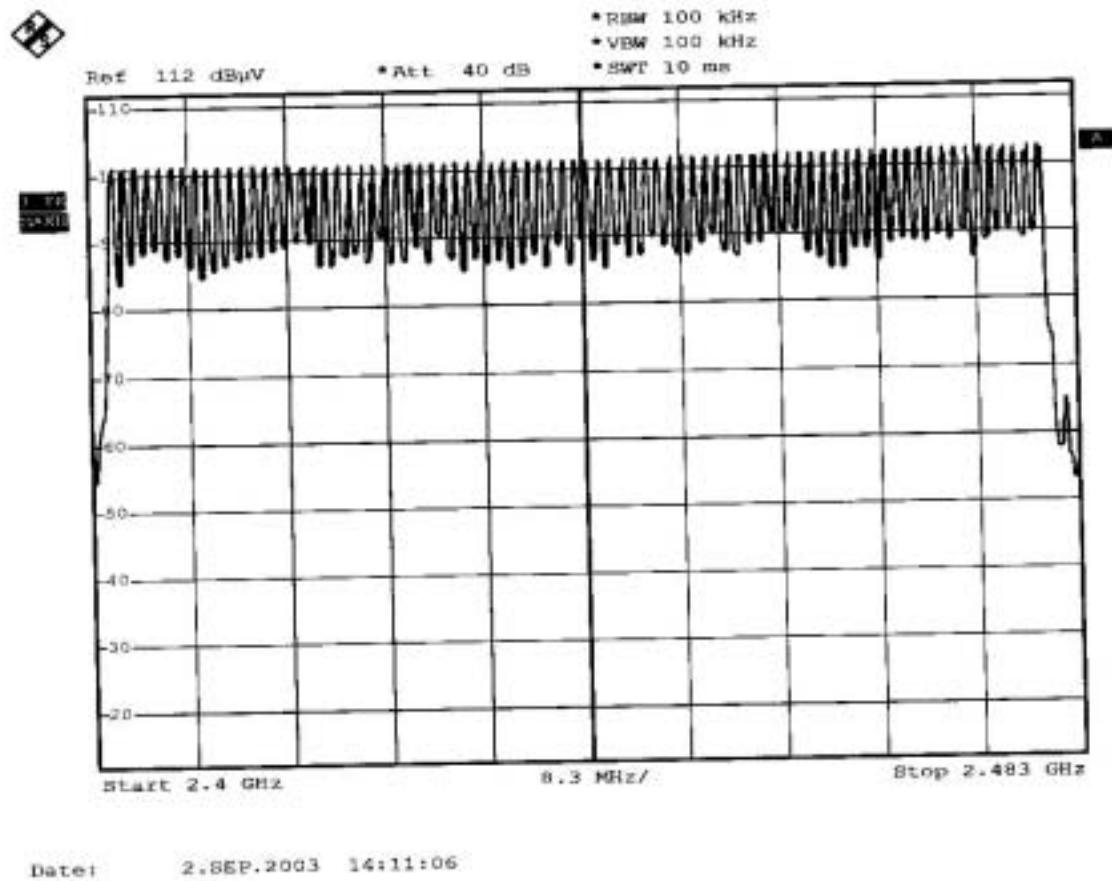
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Date: 2-SEP-2003 14:06:51

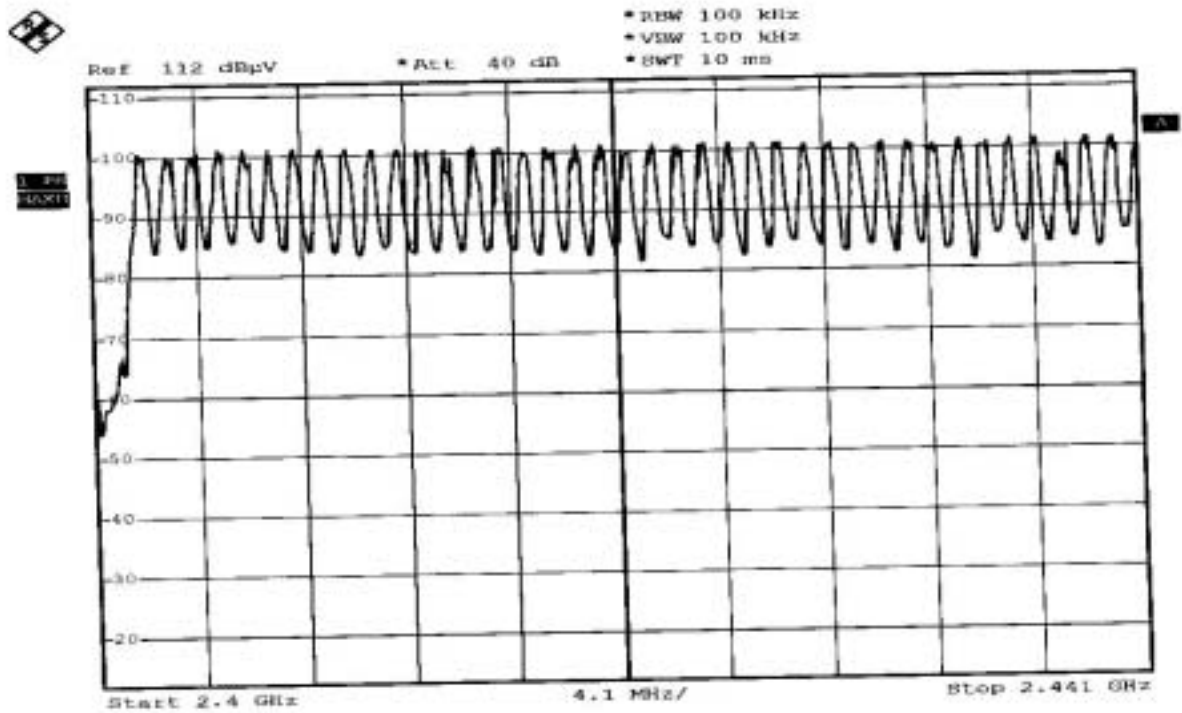
4.4 No. of carrier frequency / 20db Bandwidth

SUBCLAUSE15.247(a)(1)(ii)

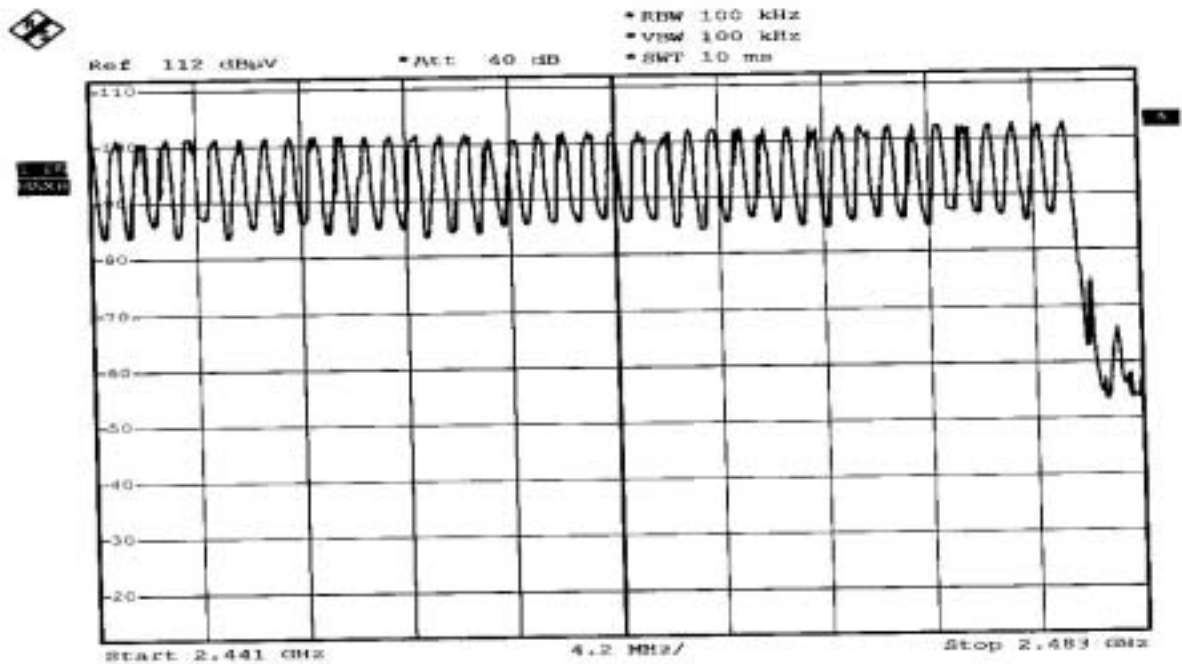


Number of channels = 79

Split the whole frequency band into two.

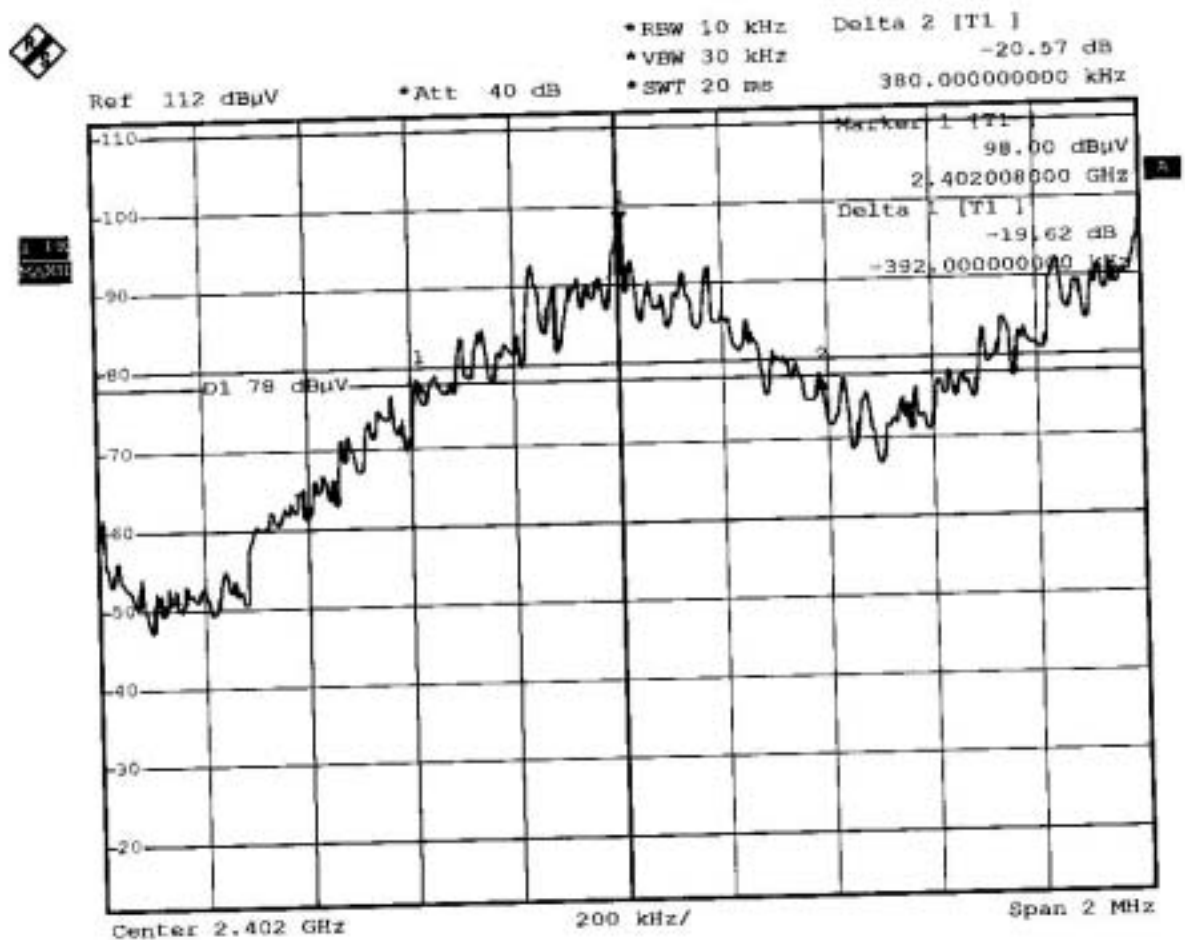


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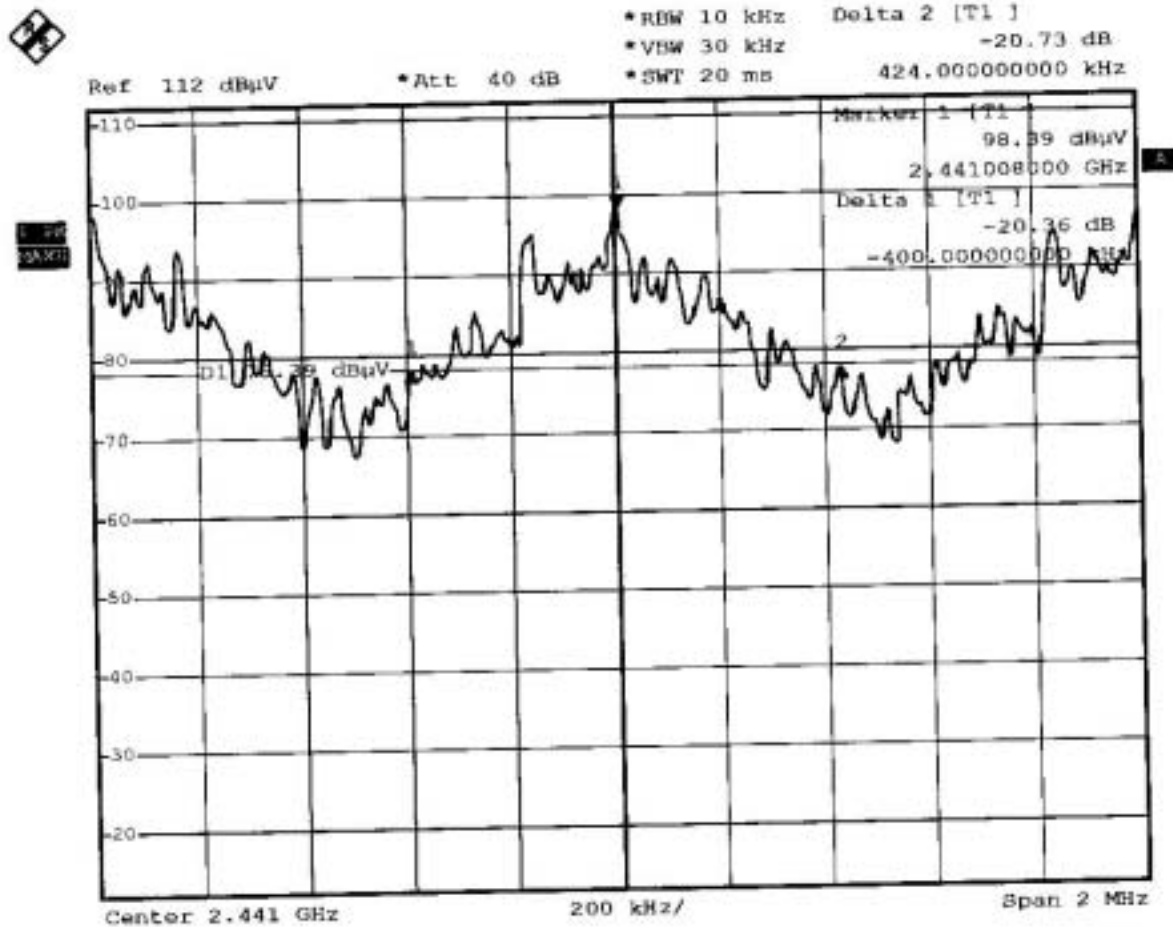
Date: 2.SEP.2003 14:14:03

20dB bandwidth at lowest (2402Mhz), middle(2441Mhz), highest channel(2480Mhz)



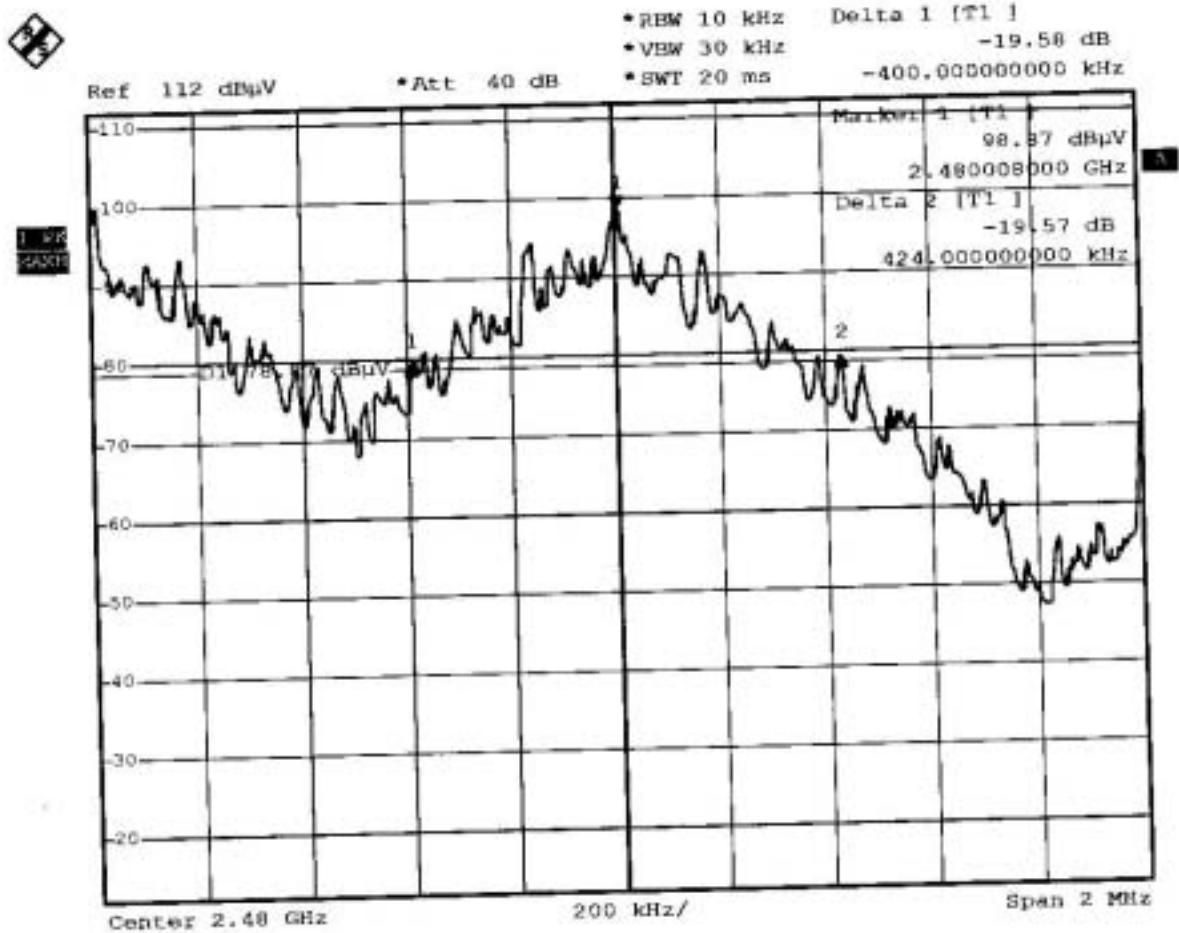
Date: 2.SEP.2003 14:16:42

Channel bandwidth = 872 KHZ



Date: 2.SEP.2003 14:20:19

Channel bandwidth = 824 KHZ

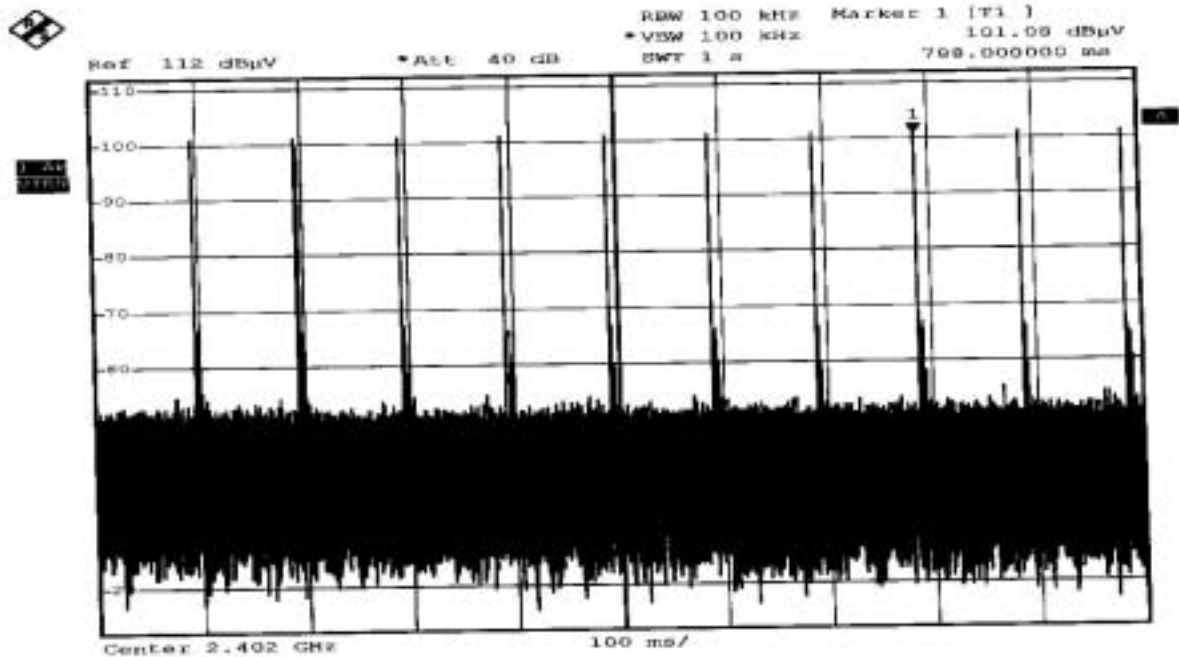


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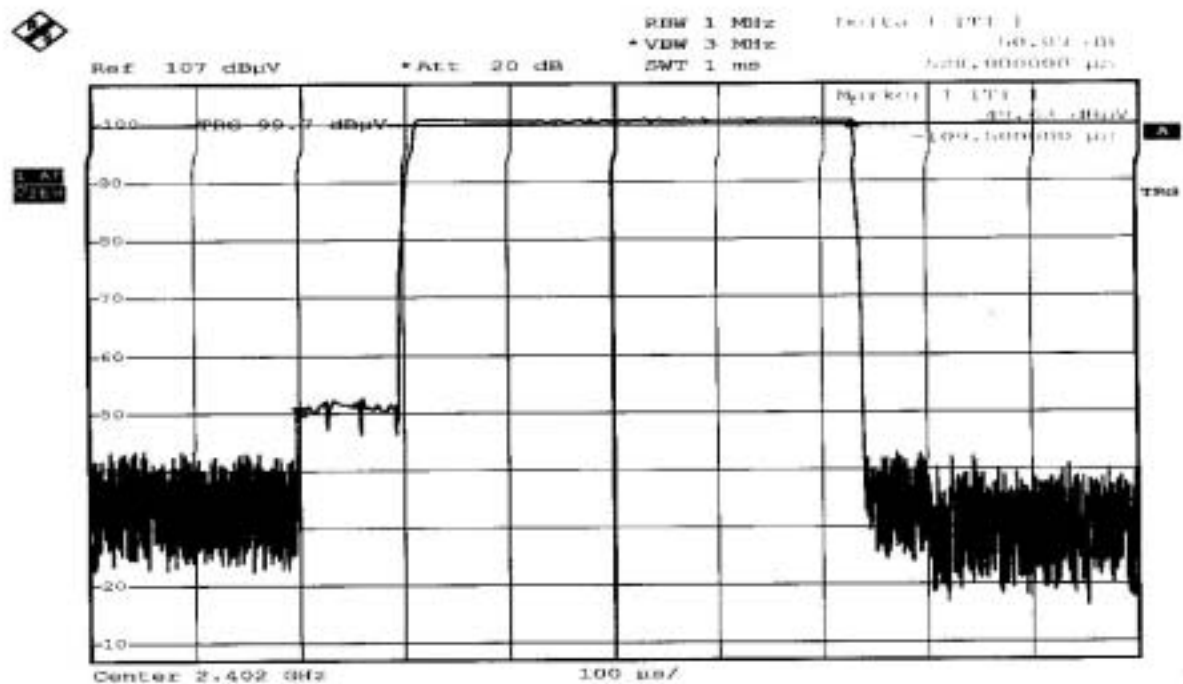
Channel bandwidth = 824 KHZ

4.5 Average Time of Occupancy

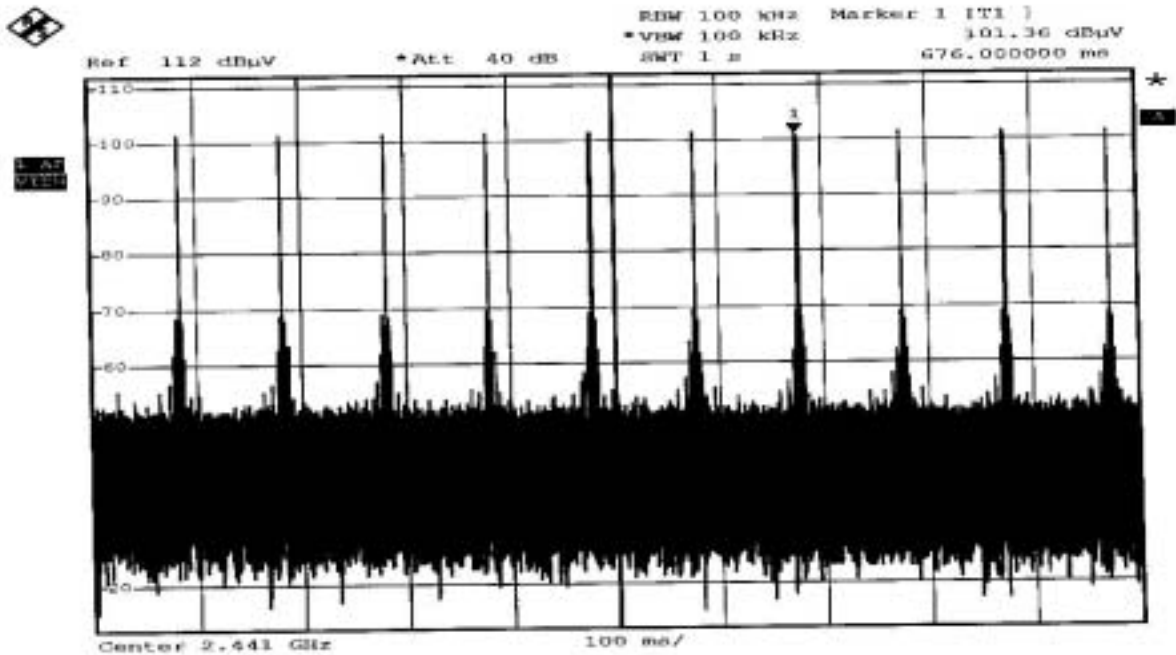
SUBCLAUSE15.247(a)(1)(ii)



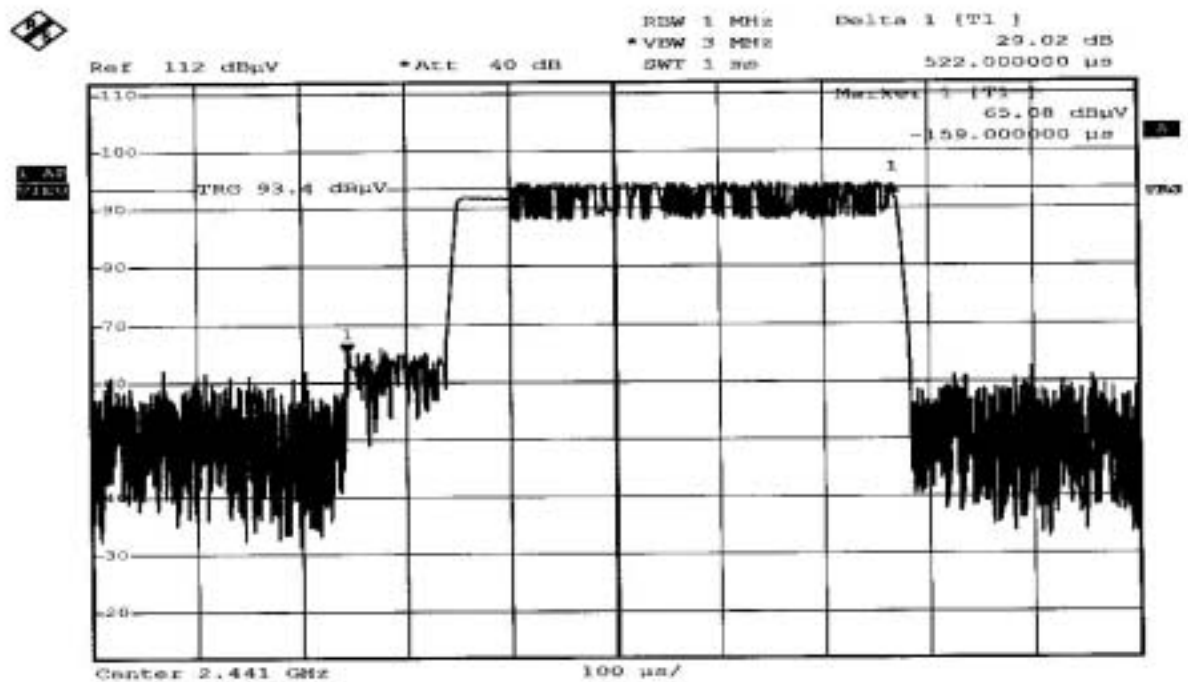
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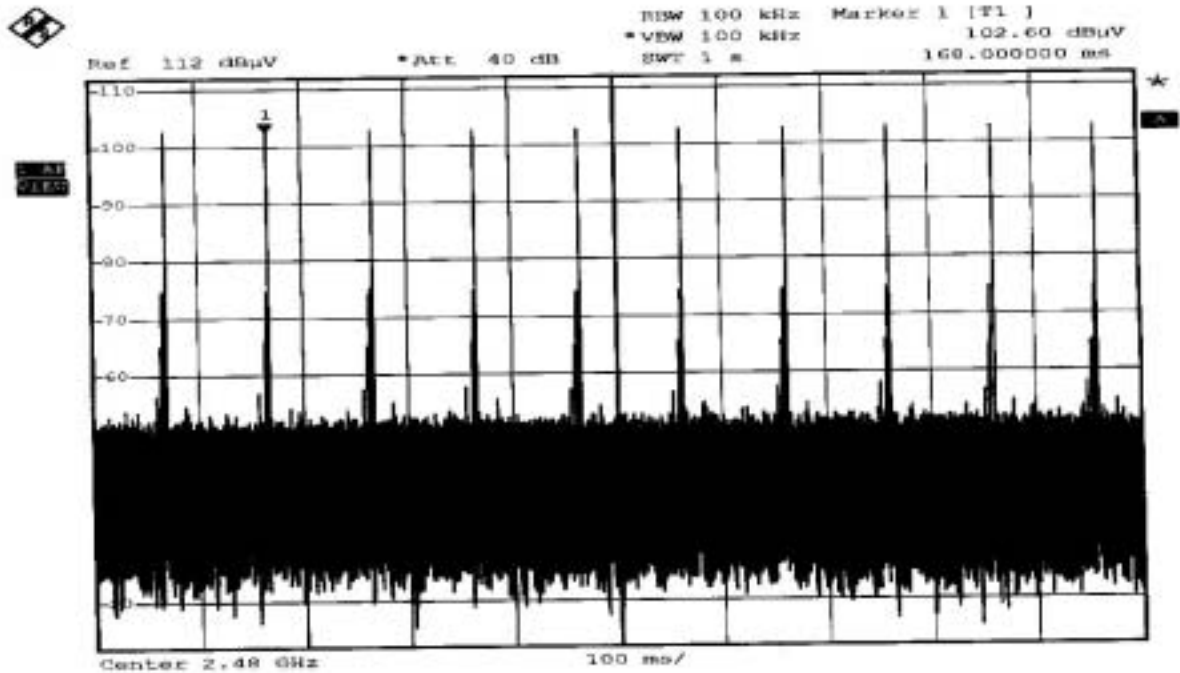
Date: 2.SEP.2003 14:38:45



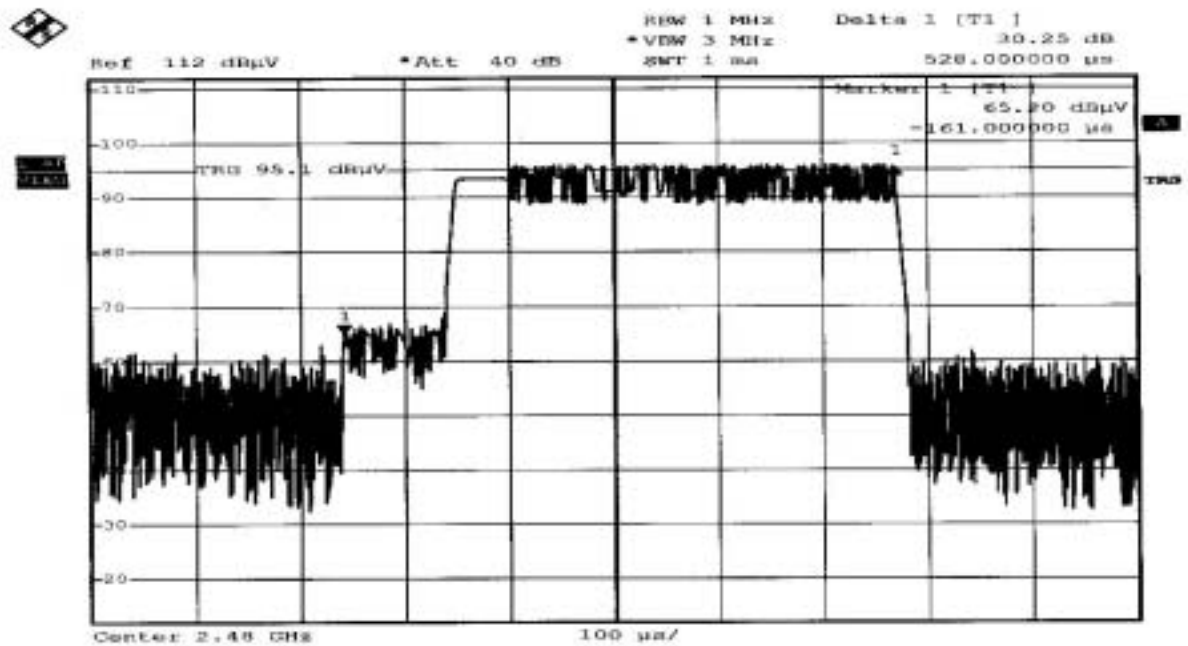
Date: 2.SEP.2003 14:24:17



Date: 2.SEP.2003 14:27:54



Date: 2.SEP.2003 14:24:56



Date: 2.SEP.2003 14:27:18

4.5.1 calculation

At channel 2402 (528 μ Sec), 2441(522 μ Sec)and 2480Mhz(528 μ Sec), there are 10 bursts in 1 sec. Time period of each burst is 528 μ Sec(worst case). So the occupancy time within 30 second is $528 \times 10 \times 30 = 158400 \mu \text{ Sec} = 158.4 \text{mSec} = 0.1584 \text{ Sec}$.

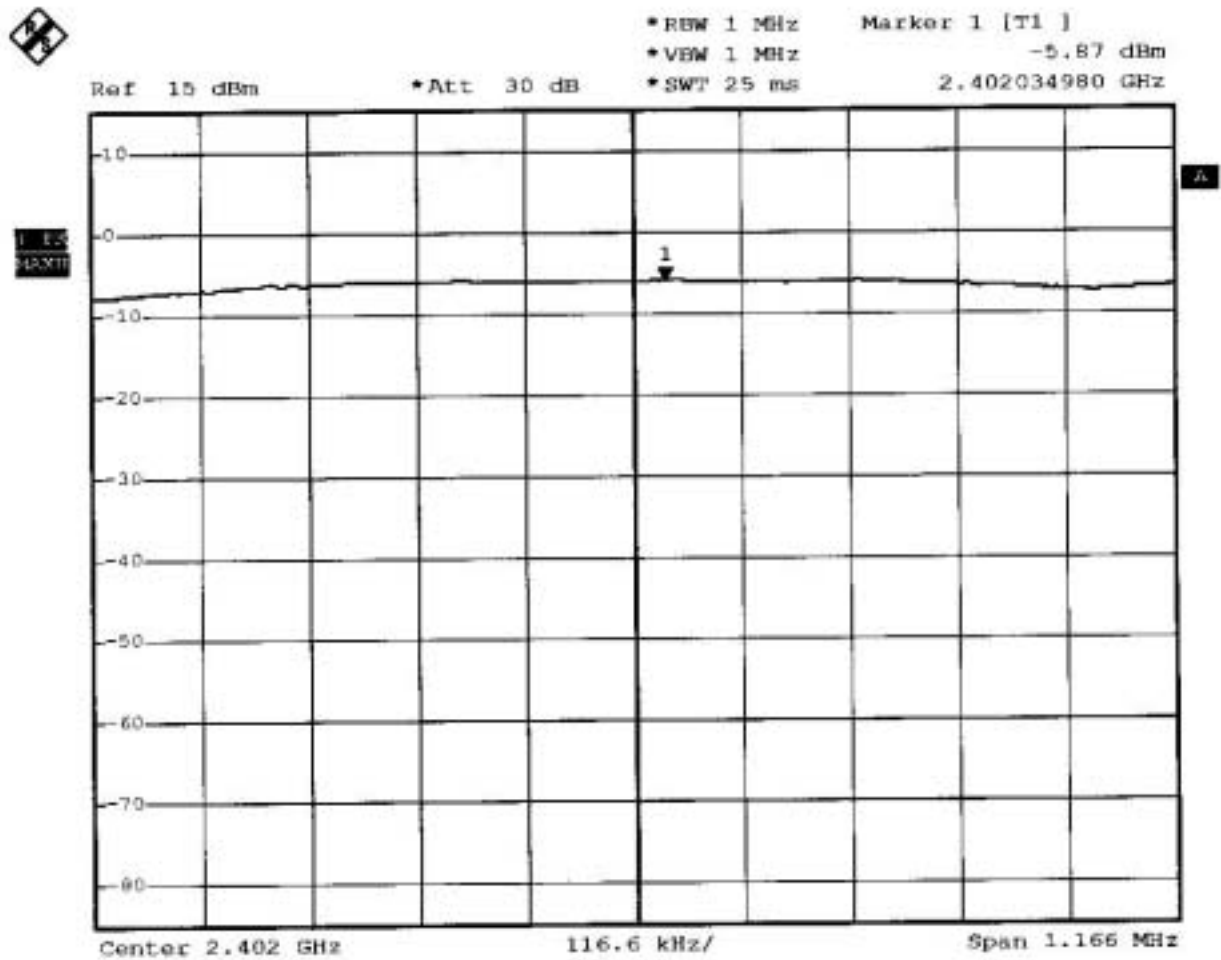
4.5.2 Limits

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

The EUT comply with the requirement in Sec 15.247(a)(1) that use at least 75 hopping frequencies. The maximum 20dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

4.6 Peak output Power**SUBCLAUSE 15.247(b)(1)**

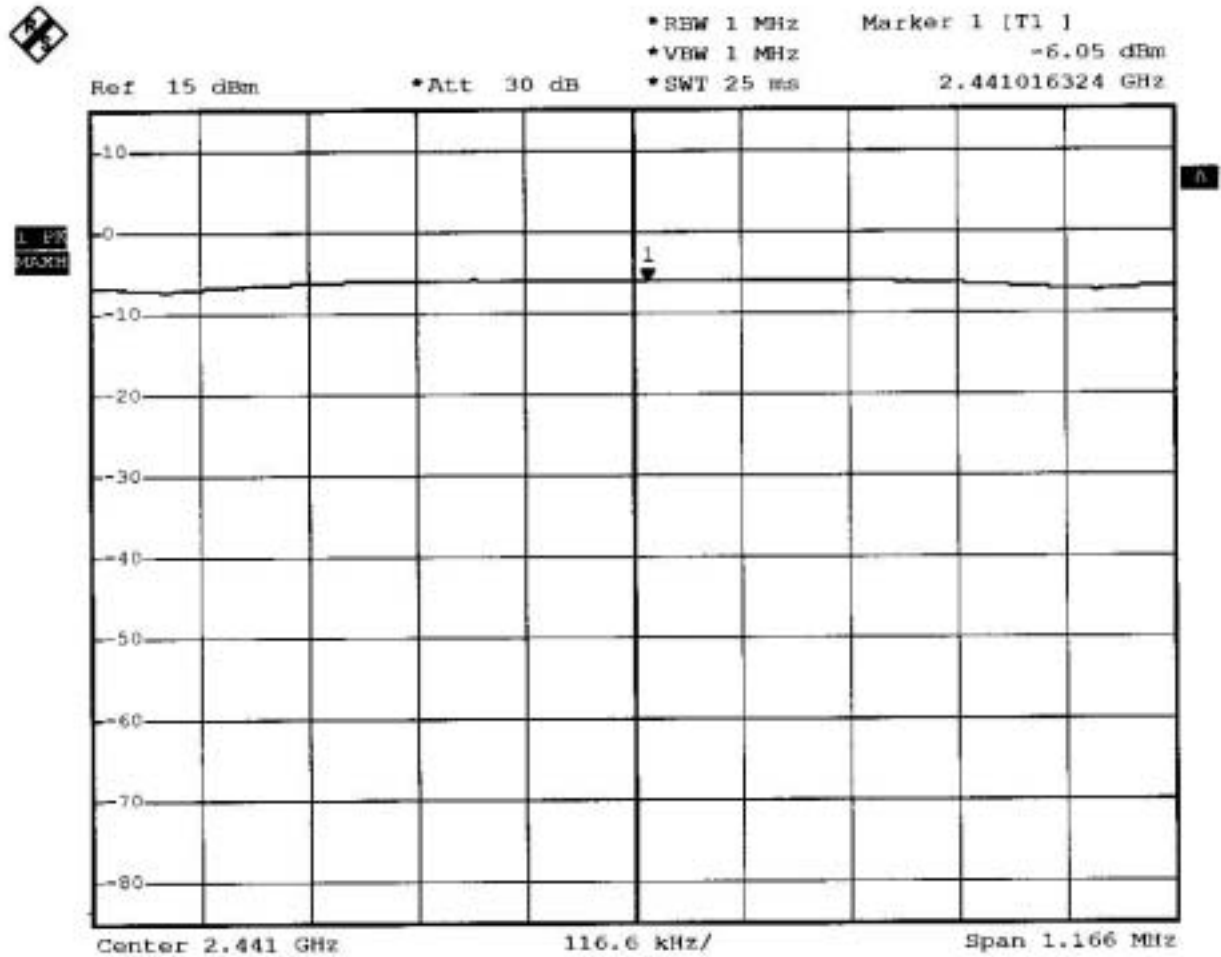
Transmitter transmit at lowest channel (2402Mhz)



The Power (ERP) = Output power + cable loss + antenna gain

$$= -5.85 \text{ dbm} + 3.3 \text{ db} + 0 \text{ dBi} = -2.55 \text{ dbm}$$

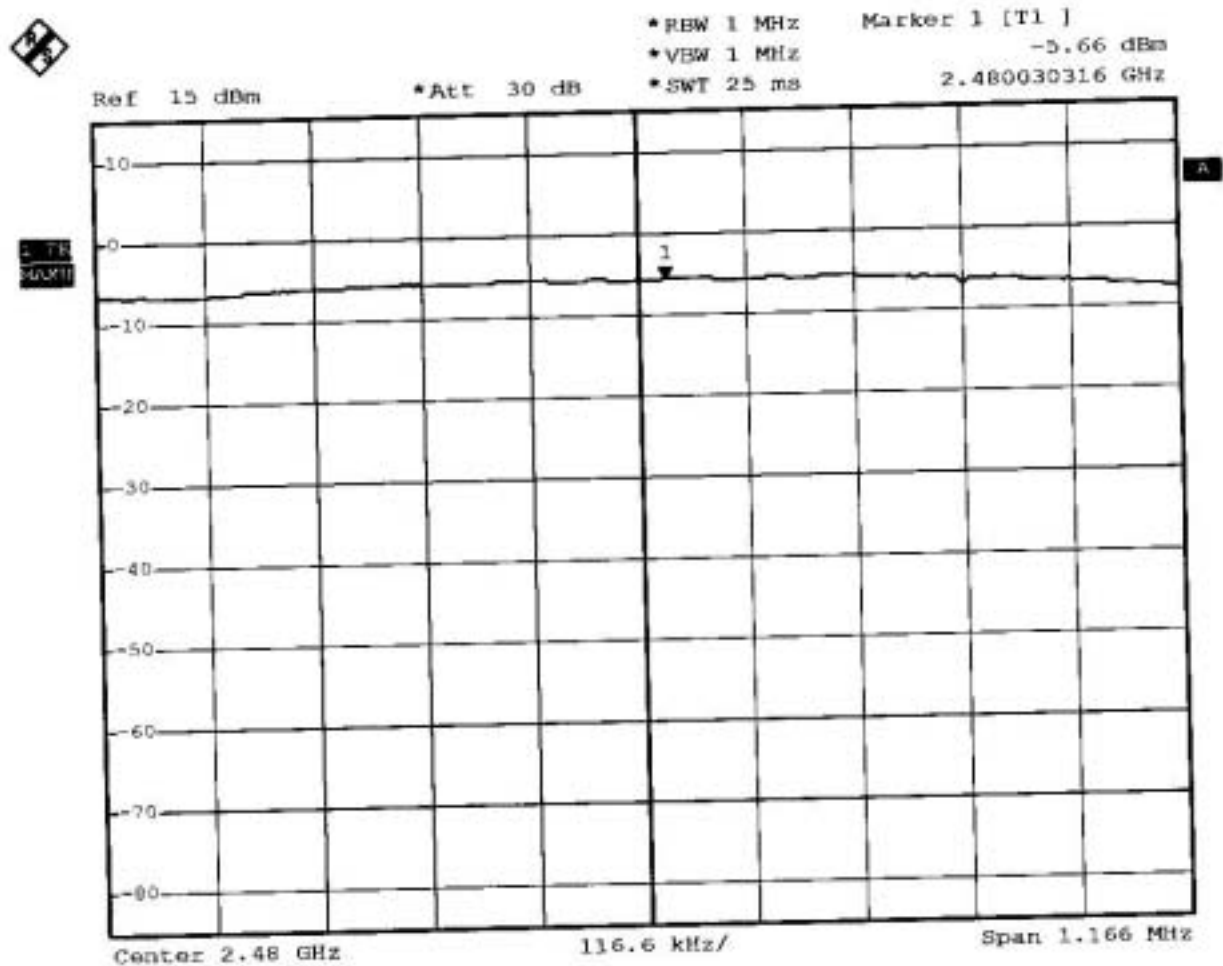
Transmitter transmit at middle channel (2441Mhz)



The Power (ERP) = Output power + cable loss + antenna gain

$$= -6.05 \text{ dbm} + 3.3 \text{ db} + 0 \text{ dBi} = -2.75 \text{ dbm}$$

Transmitter transmit at highest channel (2480Mhz)



The Power (ERP) = Output power + cable loss + antenna gain

$$= -5.66 \text{ dbm} + 3.3 \text{ db} + 0 \text{ dBi} = -2.36 \text{ dbm}$$

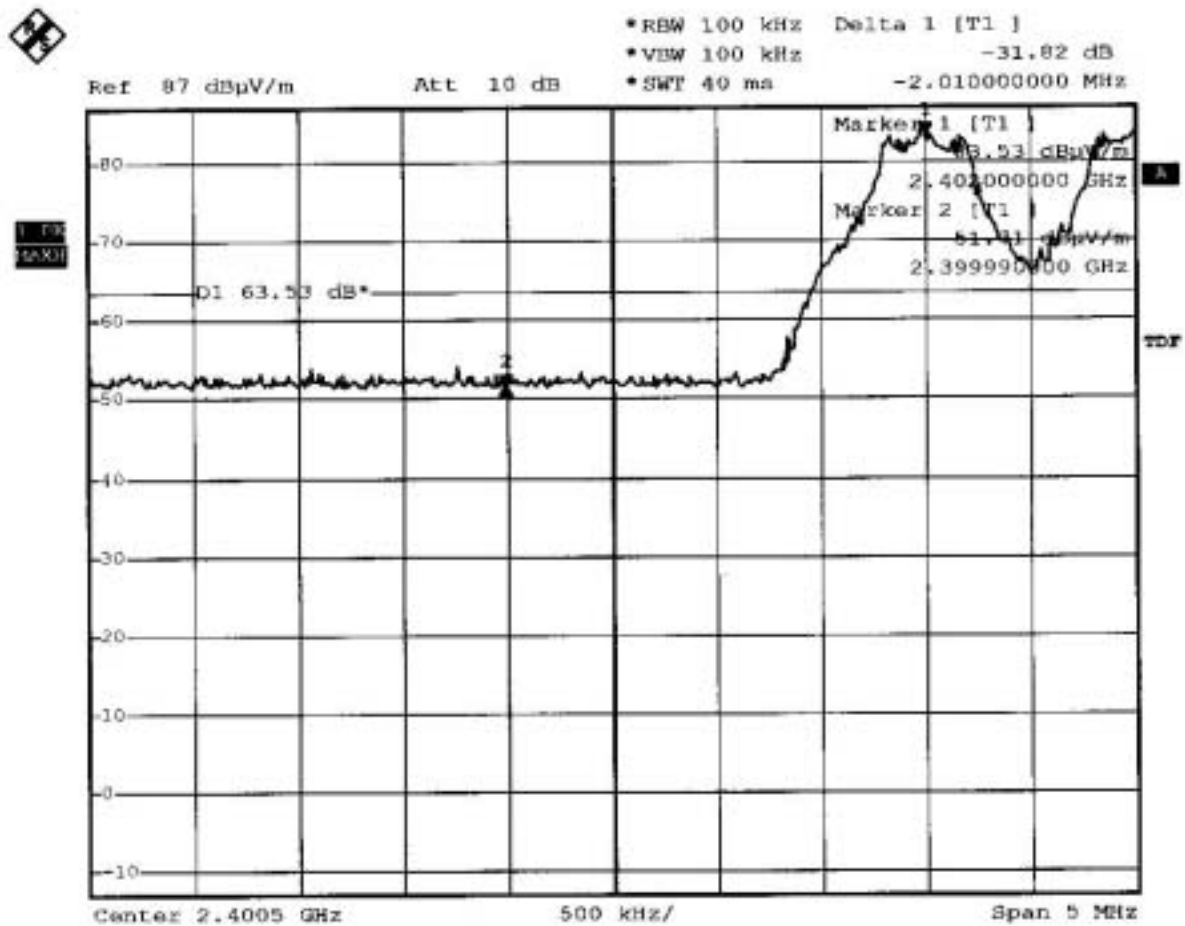
So the max power happens at 2480Mhz , which equals to $-2.36 \text{ dbm} = 0.58 \text{ mW}$

Limits:

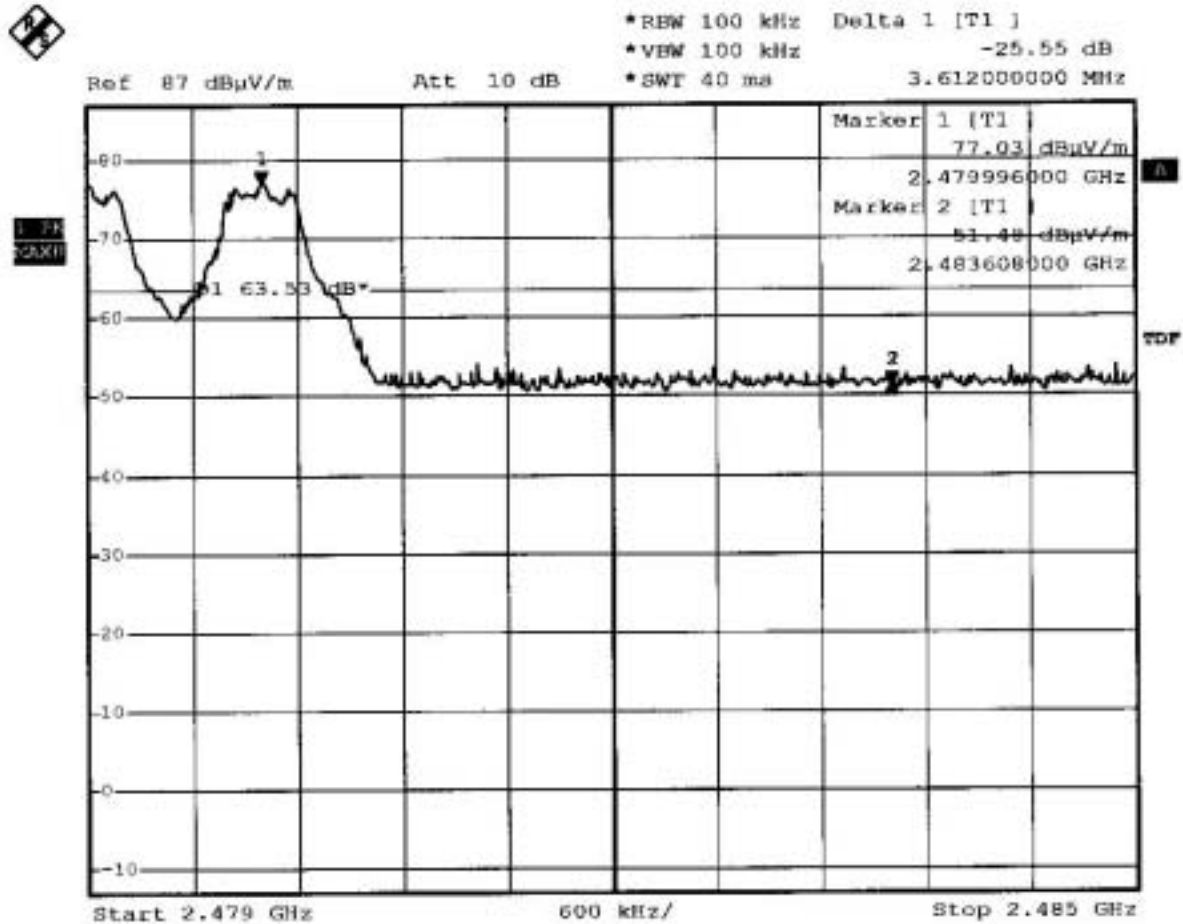
For frequency hopping systems operating in the 2400-2483.5 MHz band employing
 At least 75 hopping channels, all frequency hopping systems in the 5725-5850MHz
 Band, and all direct sequence systems: 1 Watt.

4.7 Band Edge emission

SUBCLAUSE15.247(c)



Date: 2.SEP.2003 15:11:34



Date: 2.SEP.2003 15:13:29

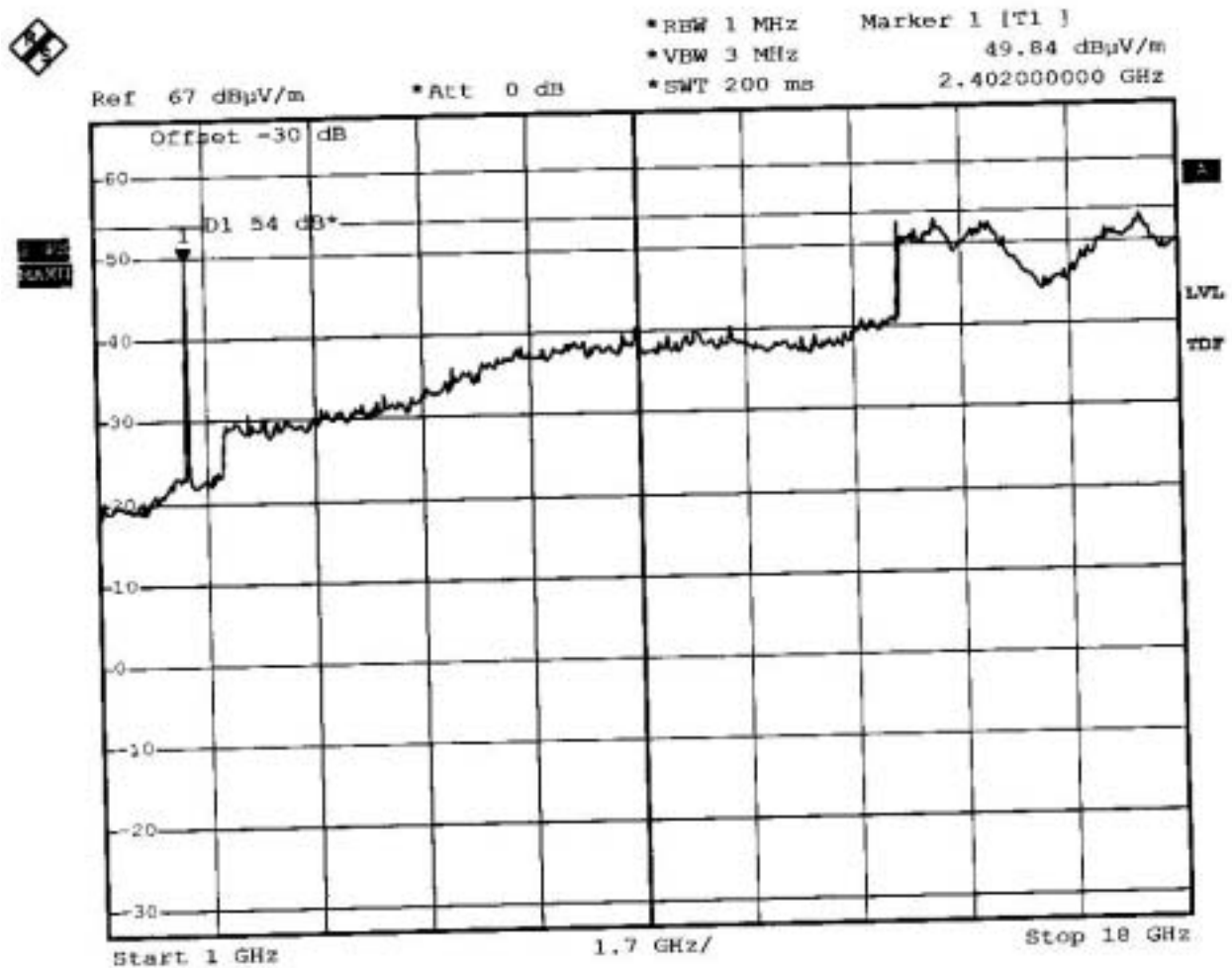
	Lower bandedge	Upper bandedge
Bandedge difference from main channel	31.82 db	25.55 db

4.7.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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, and it must comply with the limit in 15.209.

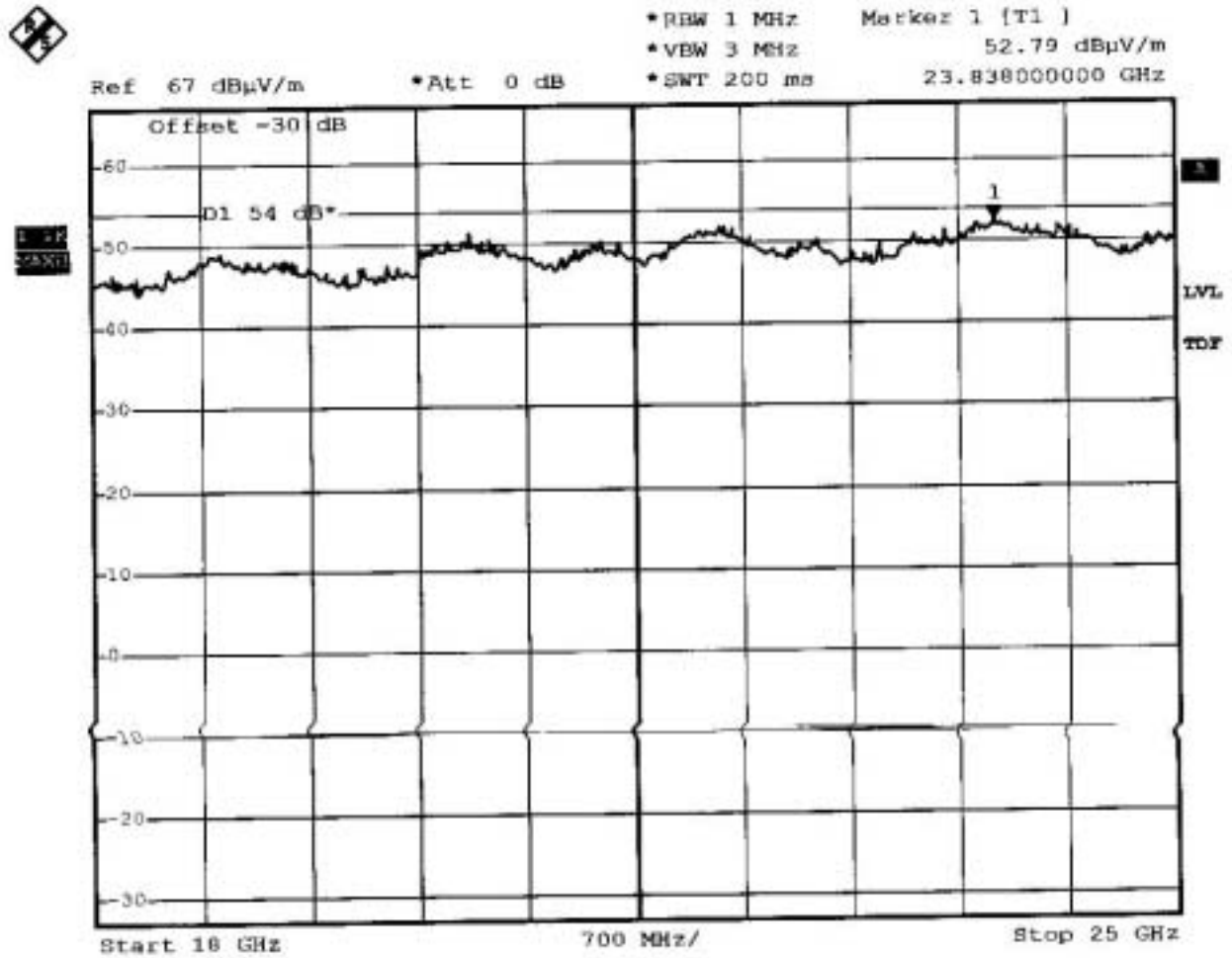
4.8 Spurious Emission under 25Ghz (from 1Ghz) SUBCLAUSE15.247(c)

1. Transmit at 2402Mhz 1Ghz – 18Ghz , Vertical



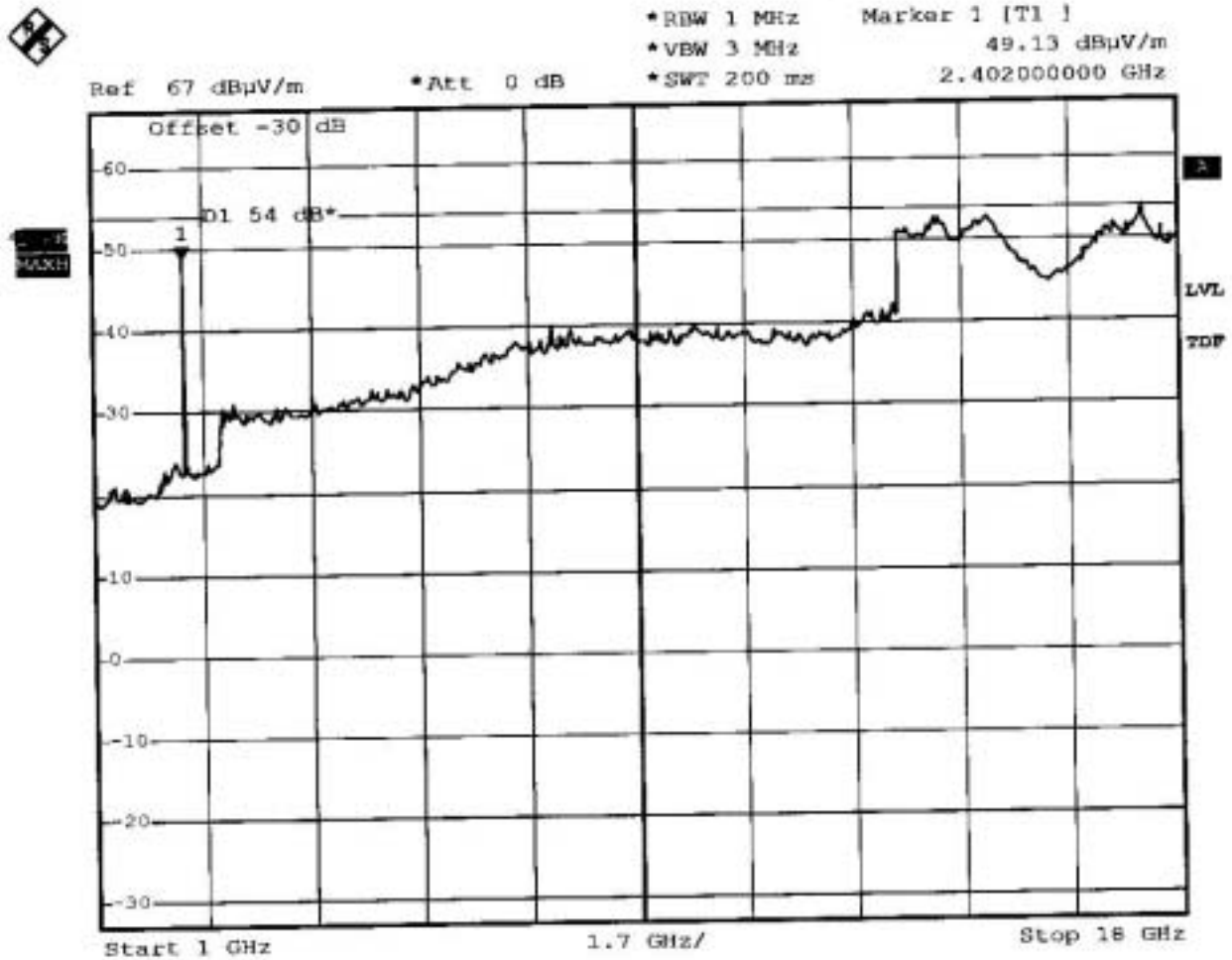
Date: 3.SEP.2003 11:44:22

18GHz – 25GHz , Vertical



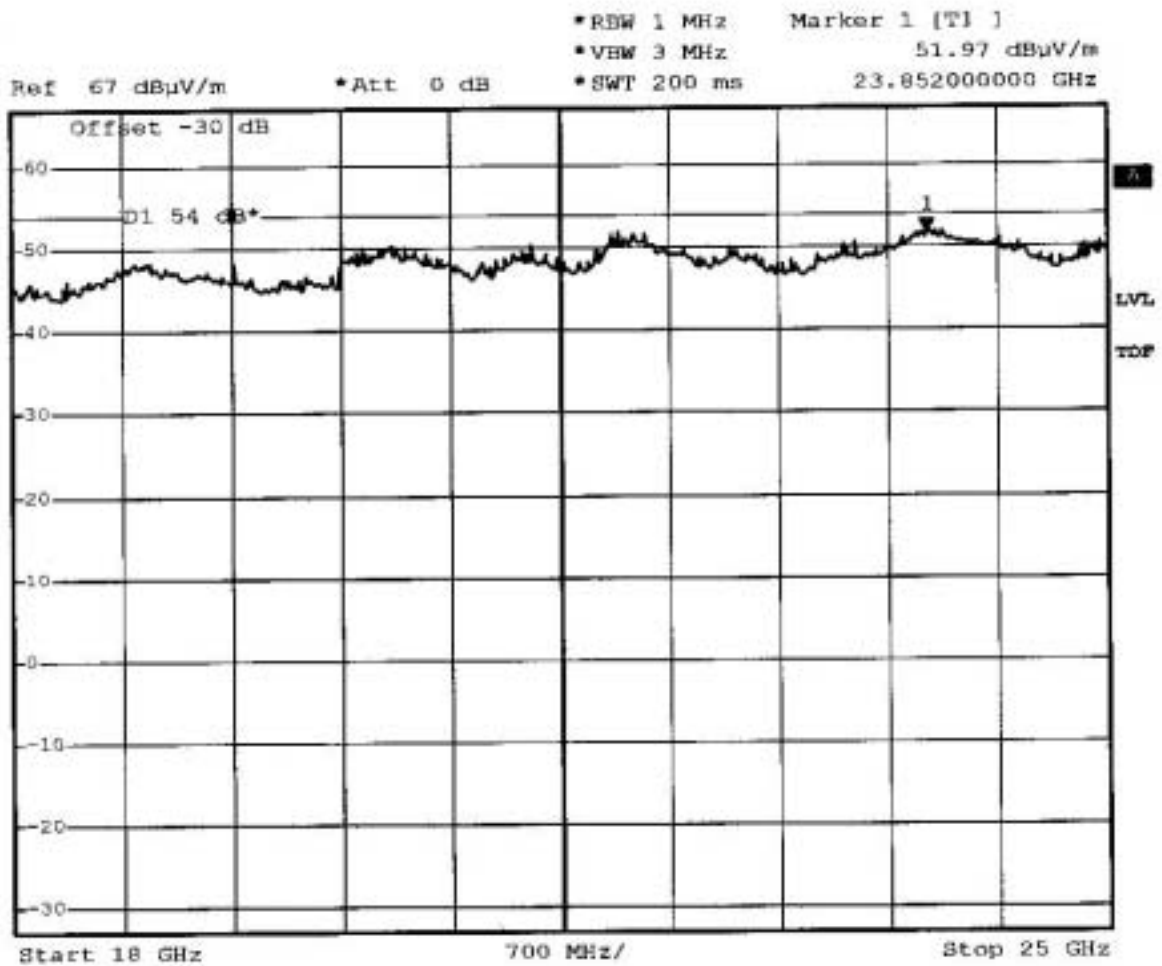
Date: 3.SEP.2003 18:29:48

1Ghz – 18Ghz , Horizontal



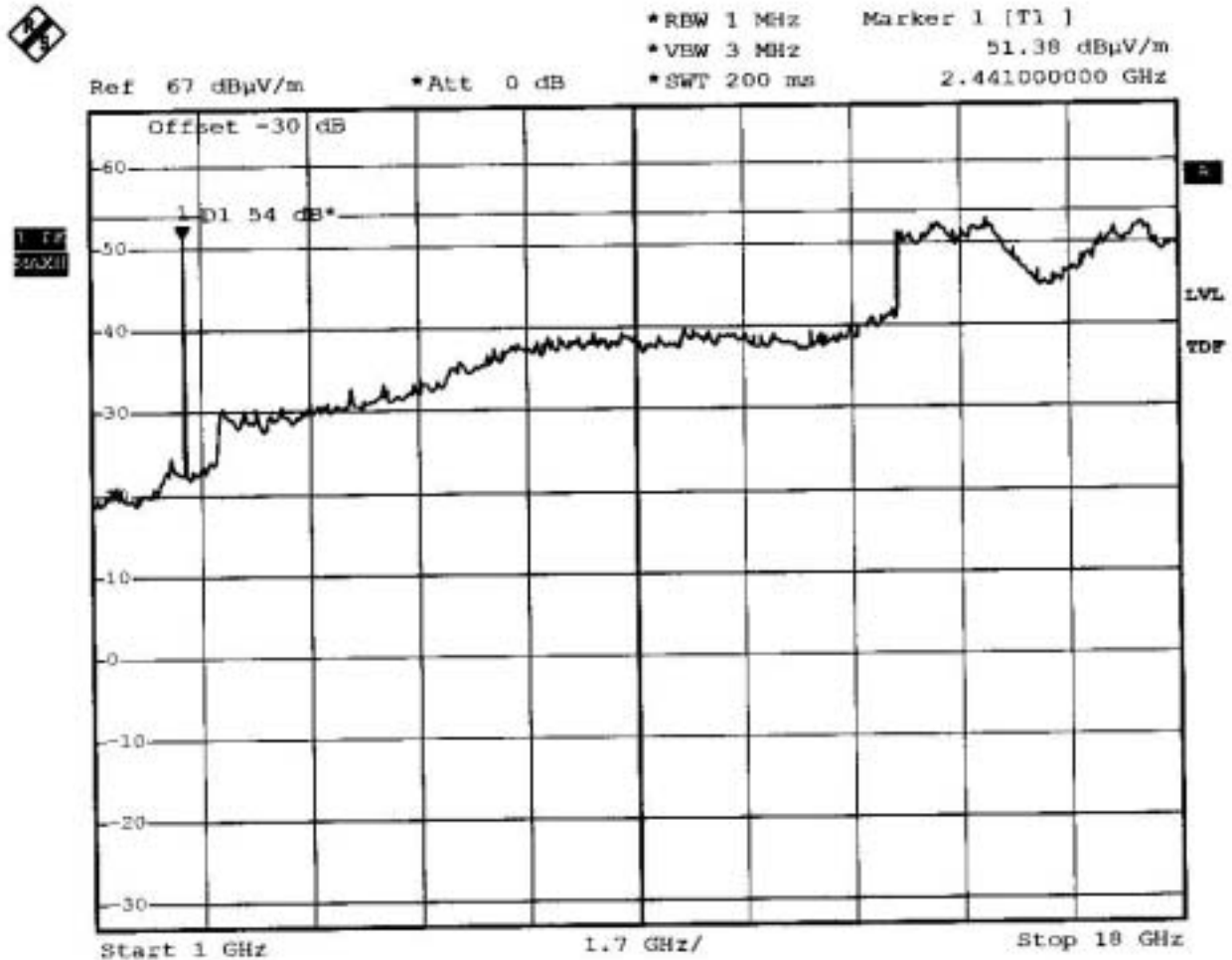
Date: 3.SEP.2003 11:43:21

18GHz – 25GHz , Horizontal



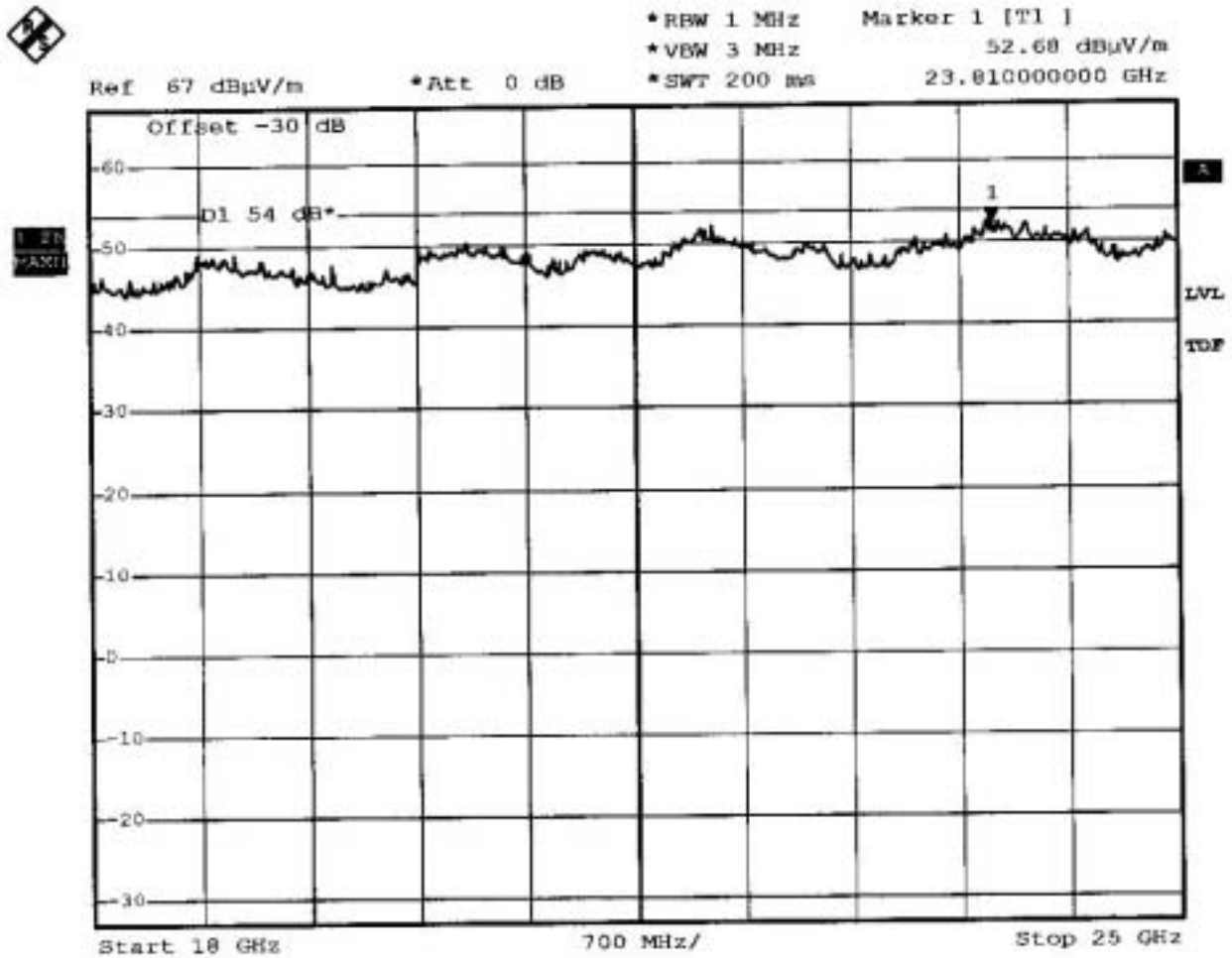
Date: 3.SEP.2003 18:30:30

2. Transmit at 2441Mhz 1Ghz – 18Ghz , Vertical



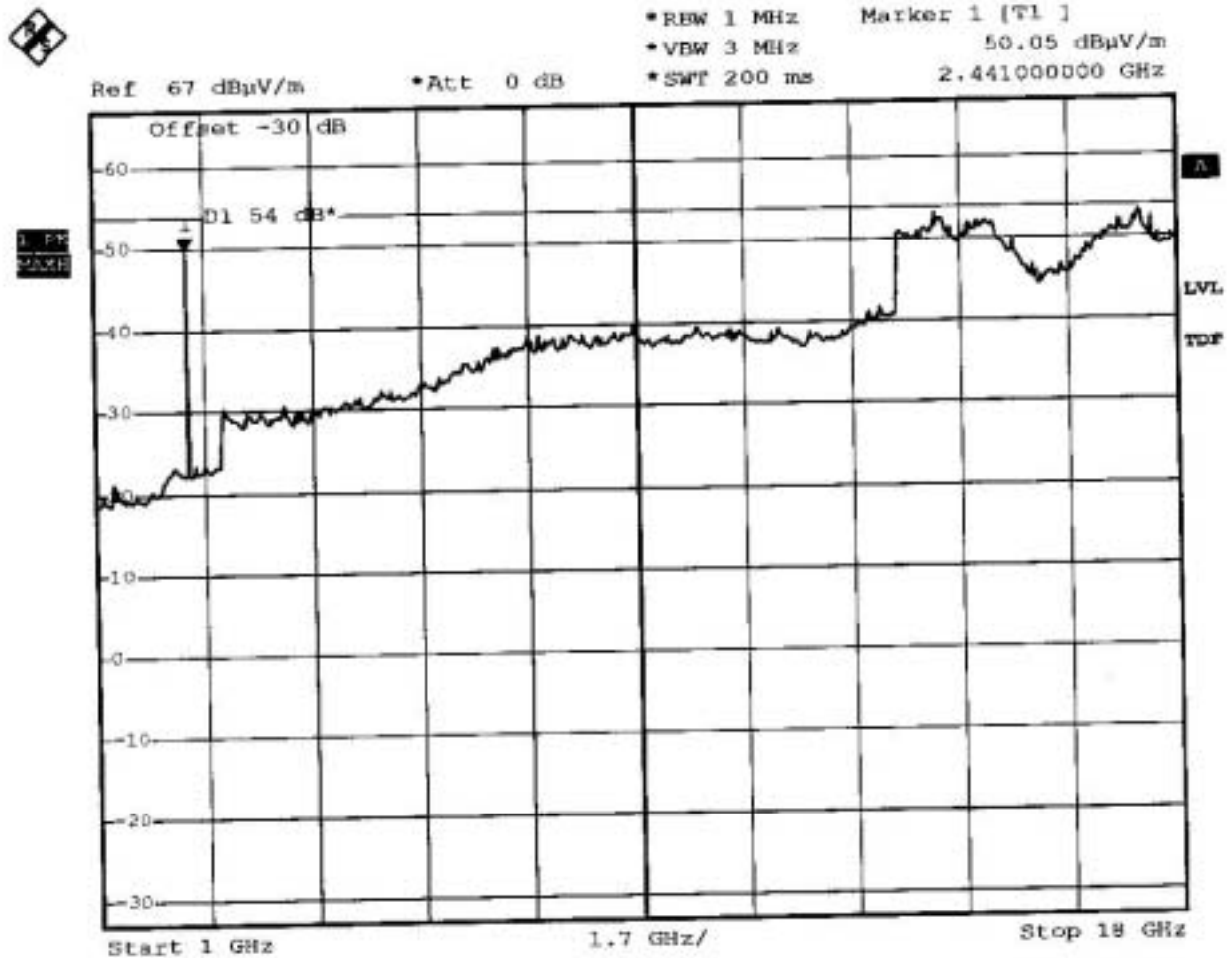
Date: 3.SEP.2003 11:48:13

18GHz – 25GHz , Vertical



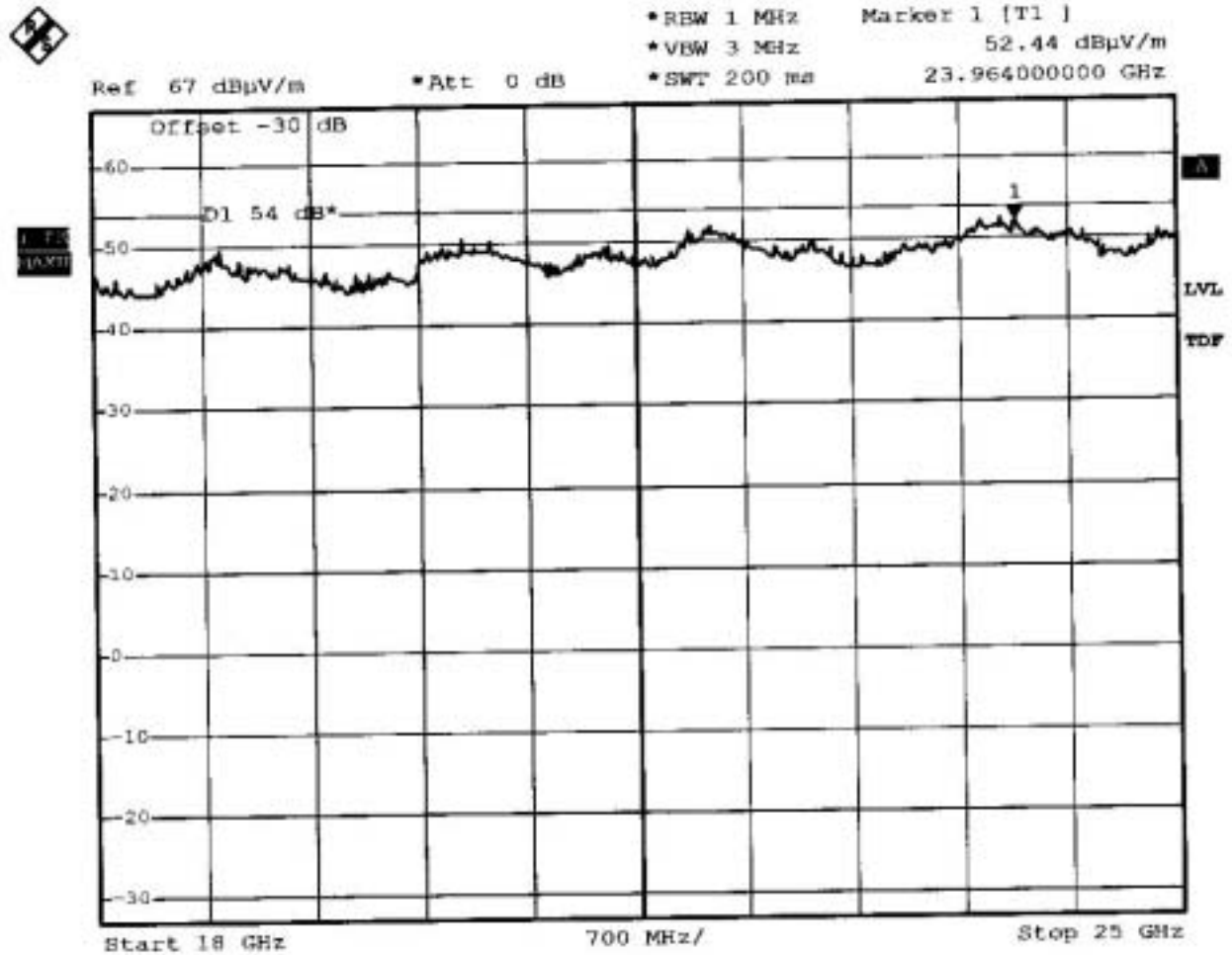
Date: 3.SEP.2003 18:31:41

1Ghz – 18Ghz , Horizontal



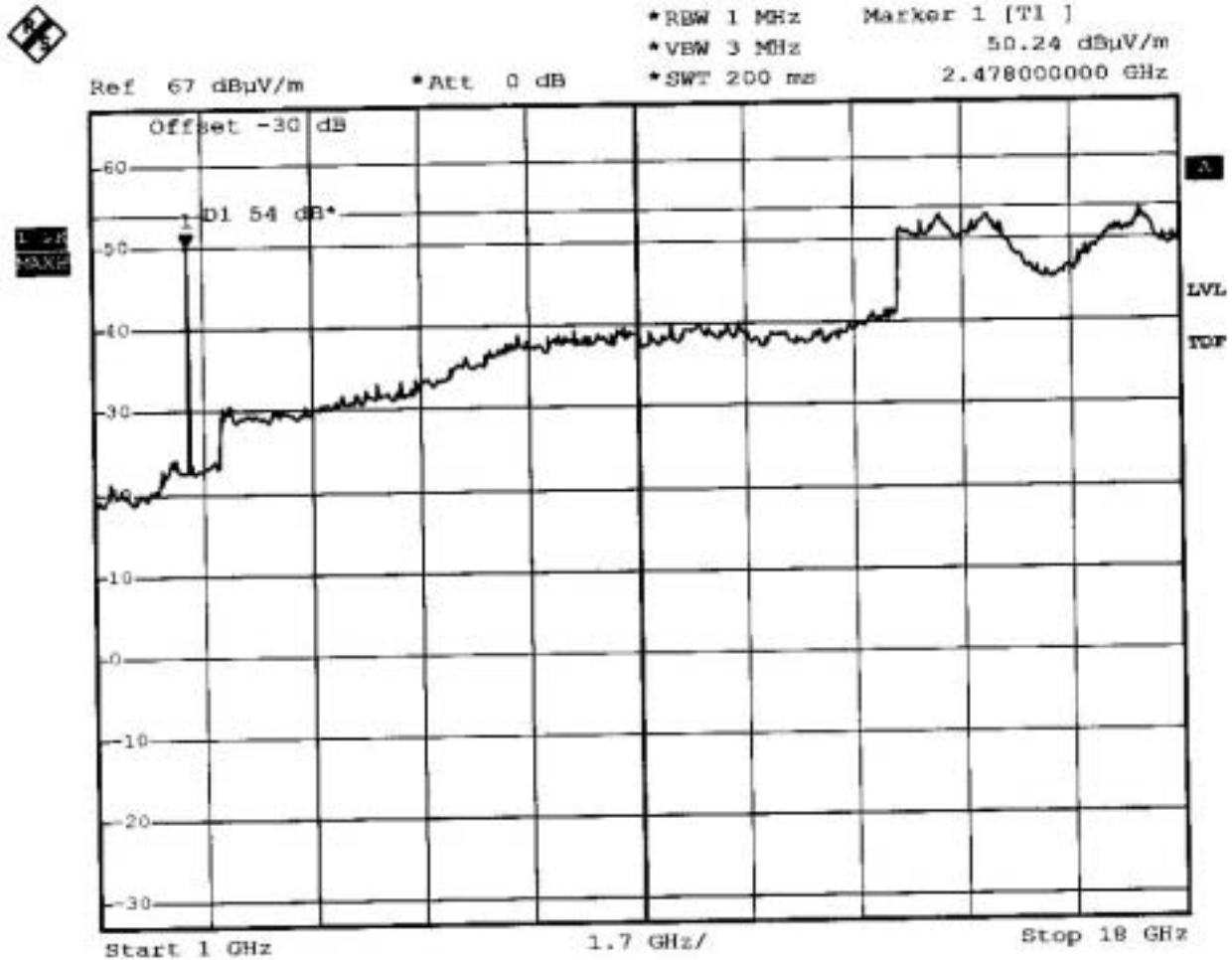
Date: 3.SEP.2003 11:49:24

18GHz – 25GHz , Horizontal



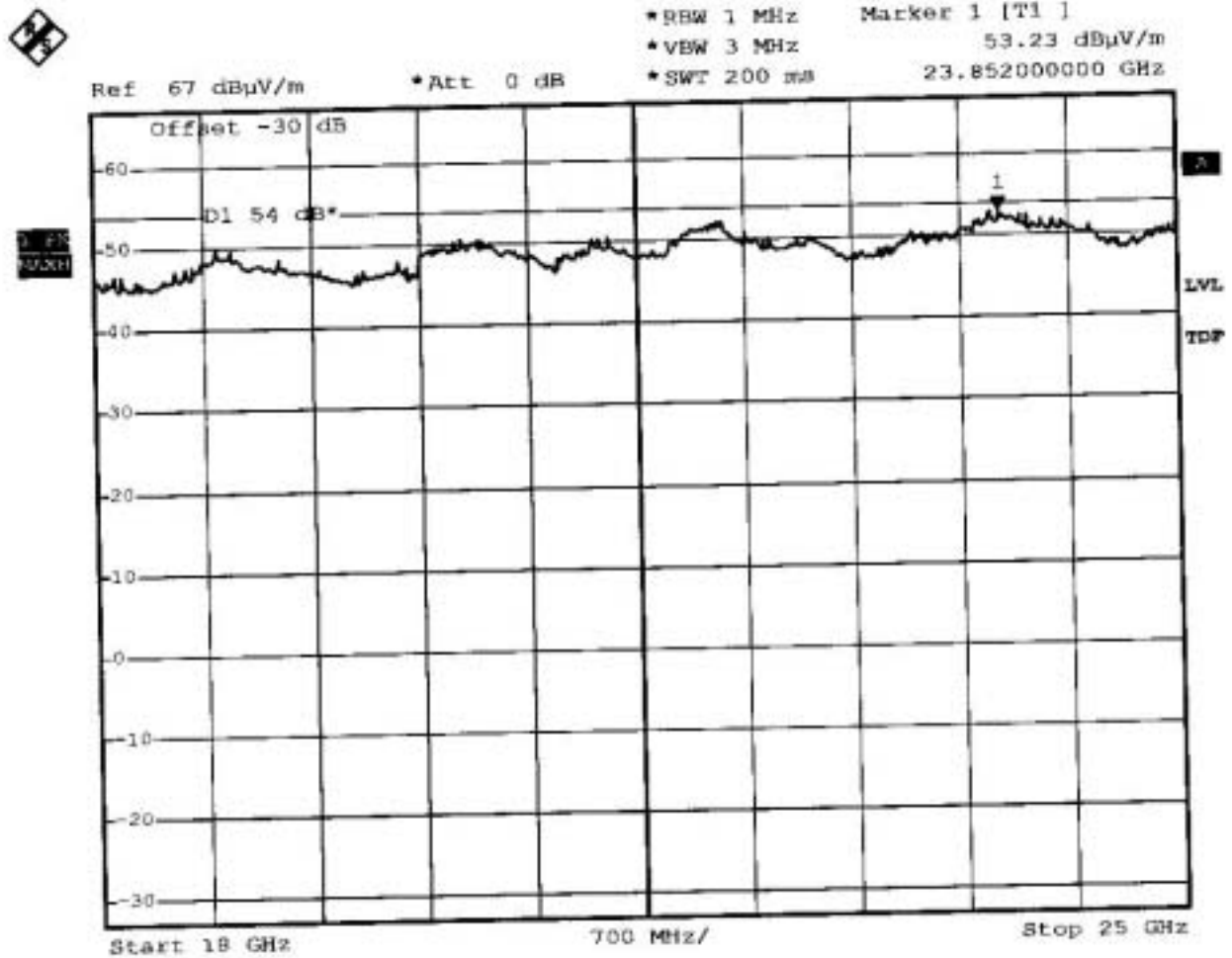
Date: 3.SEP.2003 18:32:45

3. Transmit at 2480Mhz 1Ghz – 18Ghz , Vertical



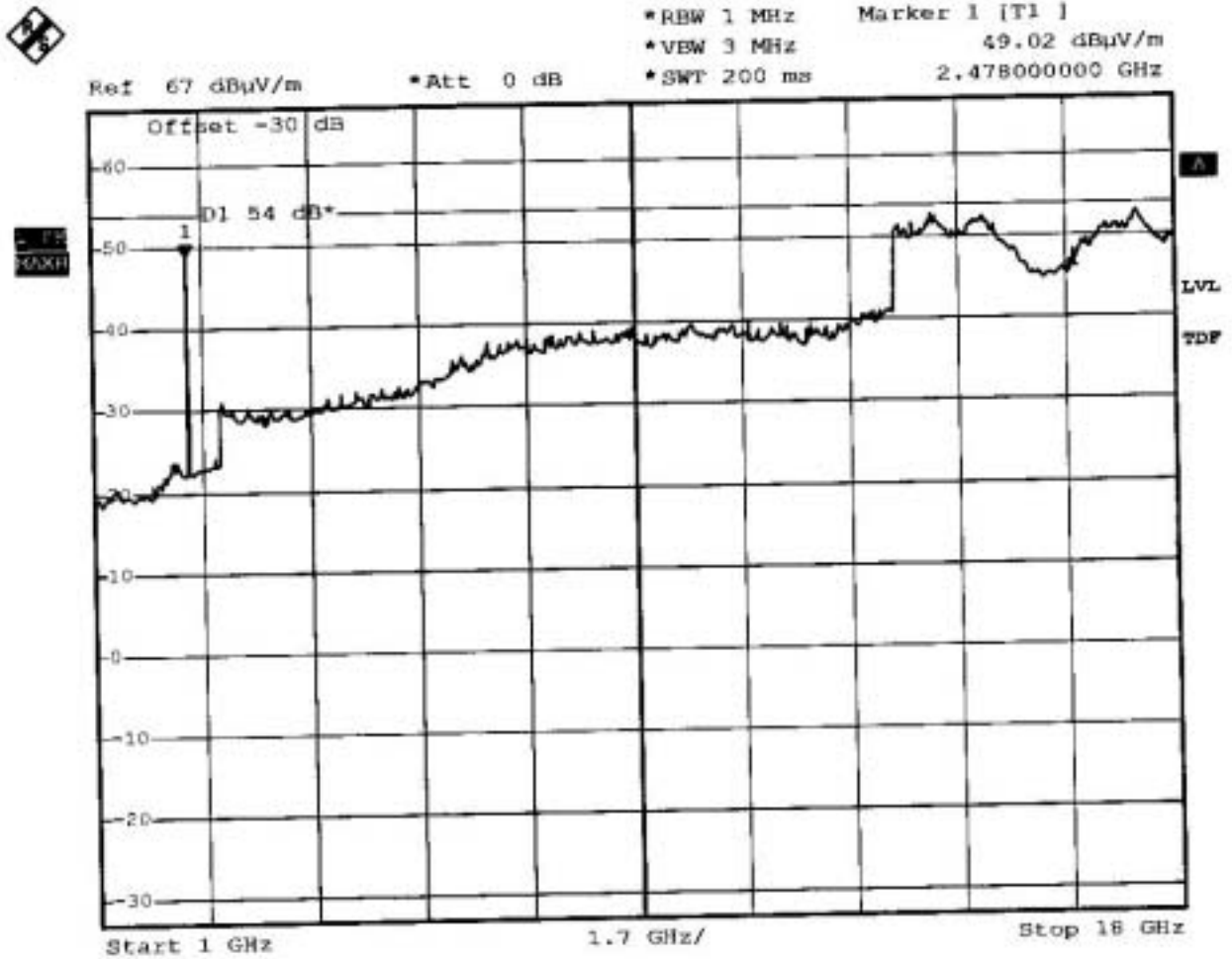
Date: 3.SEP.2003 12:59:38

18GHz – 25GHz , Vertical



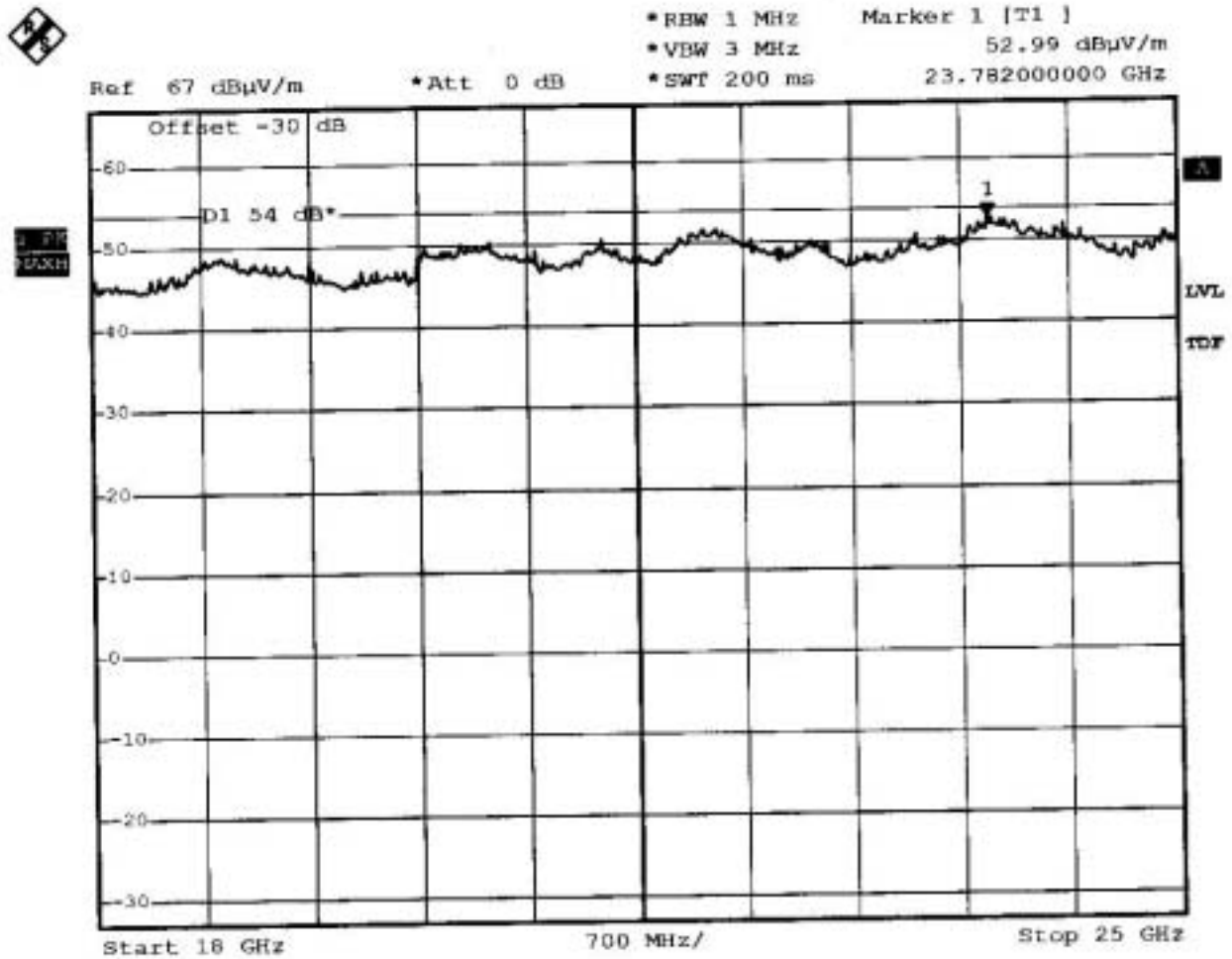
Date: 3.SEP.2003 18:33:29

1Ghz – 18Ghz , Horizontal



Date: 3.SEP.2003 13:01:20

18GHz – 25GHz , Horizontal



Date: 3.SEP.2003 18:33:48

APPENDIX: Photographs of Test Setup

(The Photos are saved separately)

APPENDIX : Photographs of EUT

Internal Photos

(The Photos are saved separately)

External Photos

(The Photos are saved separately)