

FCC COMPLIANCE REPORT

for

CYFI LLC

CYFI iPod Transmitter

Model Number: KB84TX

Prepared for : CYFI LLC

Address : 12400 Wilshire Blvd #1400 Los Angeles, Ca 90025

Prepared By : NS Technology Co., Ltd.

Address : Chenwu Industrial Zone, Houjie Town, Dongguan City,
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Report Number : NSE-F08082413

Date of Test : Aug. 21~Sep.10, 2008

Date of Report : Sep. 11, 2008






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NS Technology Co., Ltd.

Applicant:	CYFI LLC		
Address:	12400 Wilshire Blvd #1400 Los Angeles, Ca 90025		
Manufacturer:	President Industry Development(Shenzhen)Co.Ltd		
Address:	West side of Bulong Road,Shangtang Village, Longhua, ShenZhen.		
E.U.T:	CYFI iPod Transmitter		
Model Number:	KB84TX		
Trade Name:	-----	Operating Frequency:	2403MHz~2478MHz
Date of Receipt:	Aug. 8, 2008	Date of Test:	Aug. 21~Sep.10, 2008
Test Specification:	FCC PART 15: 2008 Section 15.249 ANSI C63.4:2003		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
	Issue Date: Sep. 11, 2008		
Tested by:	Reviewed by:	Approved by:	
			
David / Engineer	Iceman Hu / Supervisor	Steven Lee / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
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 NS Technology Co., Ltd.			



1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

E.U.T.	: CYFI iPod Transmitter
Model No.	: KB84TX
Operating Frequency	: 2403MHz to 2478MHz
Number of Channels	: 16 Channels
Channel Separation	: 5MHz
Antenna Type	: Integral
Output power	: 2.29dBm(Maximum measured)
Antenna Assembly Gain	: 0.3Bi (maximum)
System Input Voltage	: Nominal Voltage: DC 5V
Temperature Range(Operating)	: +15 ~+ 35°C

1.3. Independent Operation Modes

The basic operation modes are:

Channel No.	Operation Frequency(MHz)	Channel No.	Operation Frequency(MHz)
CH1	2403	CH9	2443
CH2	2408	CH10	2448
CH3	2413	CH11	2453
CH4	2418	CH12	2458
CH5	2423	CH13	2463
CH6	2428	CH14	2468
CH7	2433	CH15	2473
CH8	2438	CH16	2478

The tested modes are:

- 1.3.1. TX CH1 (2403MHz),
- 1.3.2. TX CH8 (2443MHz),
- 1.3.3. TX CH16 (2478MHz)



2. TEST SITES

2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.
Date of registration: July 28, 2003

Certificated by FCC, USA
Registration No.: 897109
Date of registration: October 10, 2003

Certificated by VCCI, Japan
Registration No.: R-1798 & C-1926
Date of registration: January 30, 2004

Certificated by CNAL, CHINA
Registration No.: L1744
Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO
Registration No.: TMP-013
Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong
Date of registration: December 1, 2005

Certificated by Industry Canada
Registration No.: 5936
Date of registration: March 24, 2006

Certificated by ATCB, America
Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,
Guangdong, China



2.2. List of Test and Measurement Instruments

2.2.1. For 20dB occupied bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.2. For radiation emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100199	Mar.20,08	Mar.20,09
Spectrum Analyzer	HP	8593E	3448U00806	Mar.20,08	Mar.20,09
Amplifier	Agilent	8447D	2944A10488	May 2,08	May 2,09
Signal Generator	HP	8648A	3426A01263	Apr.8,08	Apr.8,09
Bilog Antenna	EMCO	3142B	00022050	May 2,08	May 2,09
Horn Antenna	EMCO	3117	00062558	May 2,08	May 2,09

2.2.3. For band edge test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Test Operation Mode and Test Software

Refer to clause 1.4

3.3. Special Accessories and Auxiliary Equipment

None.

3.4. Countermeasures to Achieve EMC Compliance

None.

4. TEST SUMMARY

Test items and result lists

No.	Item	Specification	Remarks	Results
1	Conducted emission	FCC Part15.207	Conducted	N/A
2	Flid Strength of Fundamental	FCC Part 15.249(a)	Radiated	PASS
4	Flid Strength of Harmornics or other Frequency	FCC Part 15.249(a) FCC Part15.209	Radiated	PASS
5	20dB Bandwidth	FCC Part 15.249	Conducted	PASS
6	Band Edge	FCC Part 15.247(c)	Radiated	PASS

Note : N/A stand for not applicable.

4.1. Radiated Emission

4.6.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.249(a)

4.6.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than $1/T$, so the video bandwidth is 10Hz.

In 18GHz to 25GHz, The EUT was checked by Horn ANT . But the test result is background.

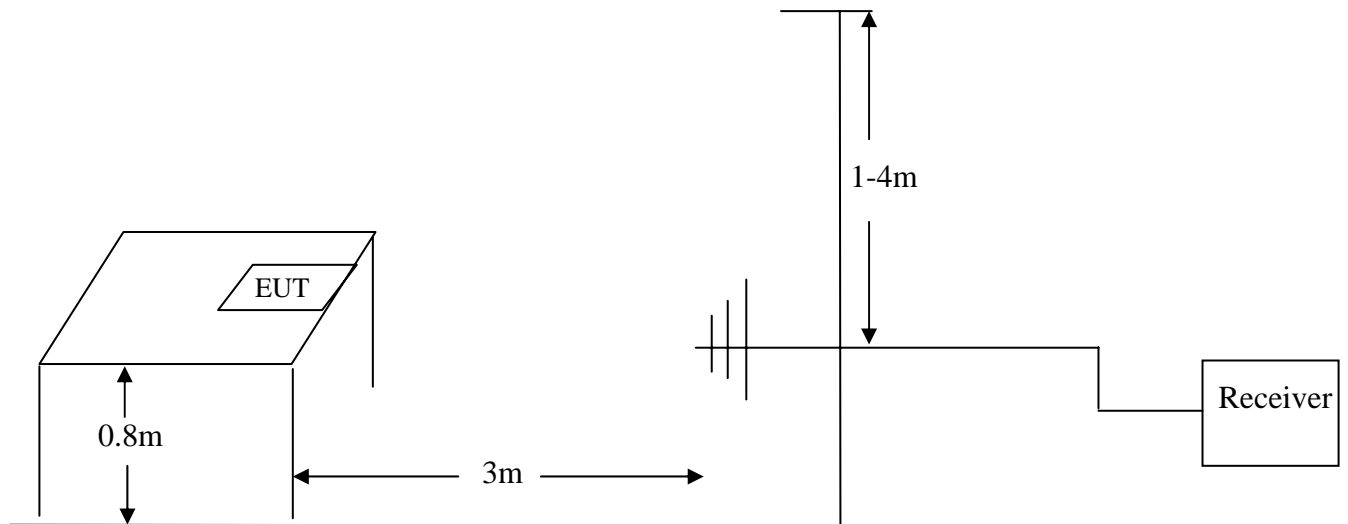
The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

The EUT was tested in Chamber Site.

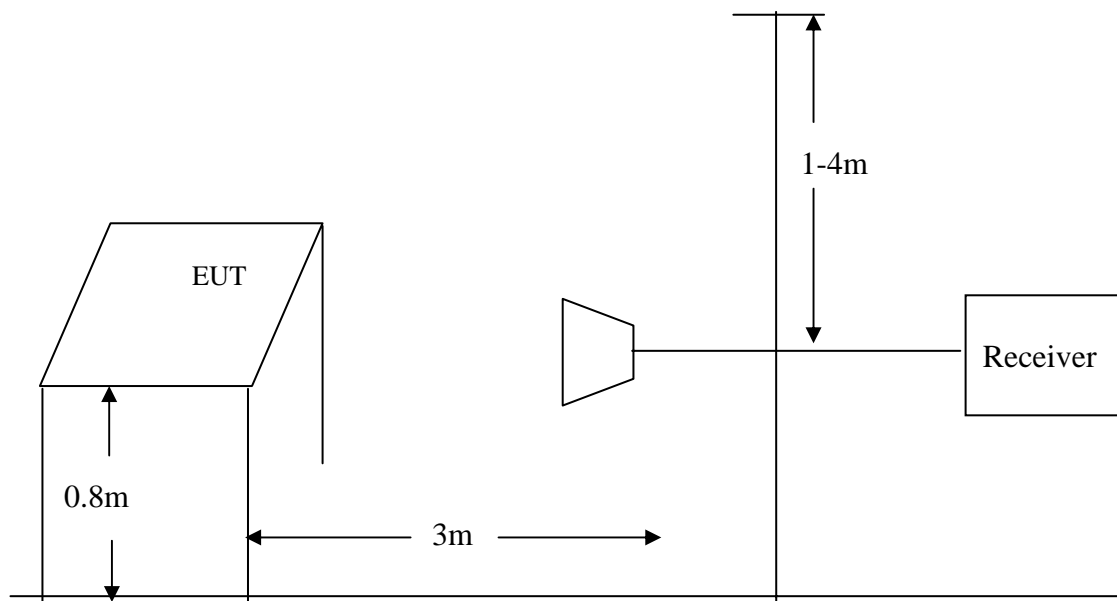


4.6.3. Test Setup Diagram

4.6.3.1. Frequency range: 30MHz-1000MHz



4.6.3.2. Frequency range: 1 GHz -25GHz



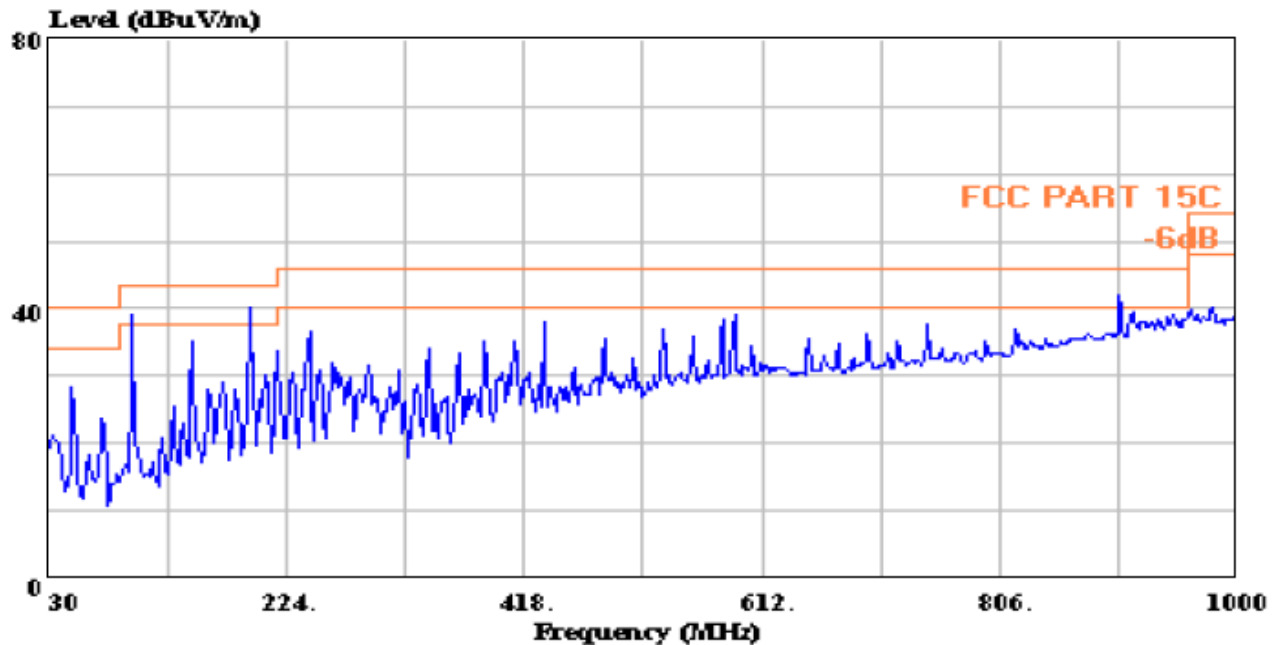
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Data#: 50 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:40:07



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz



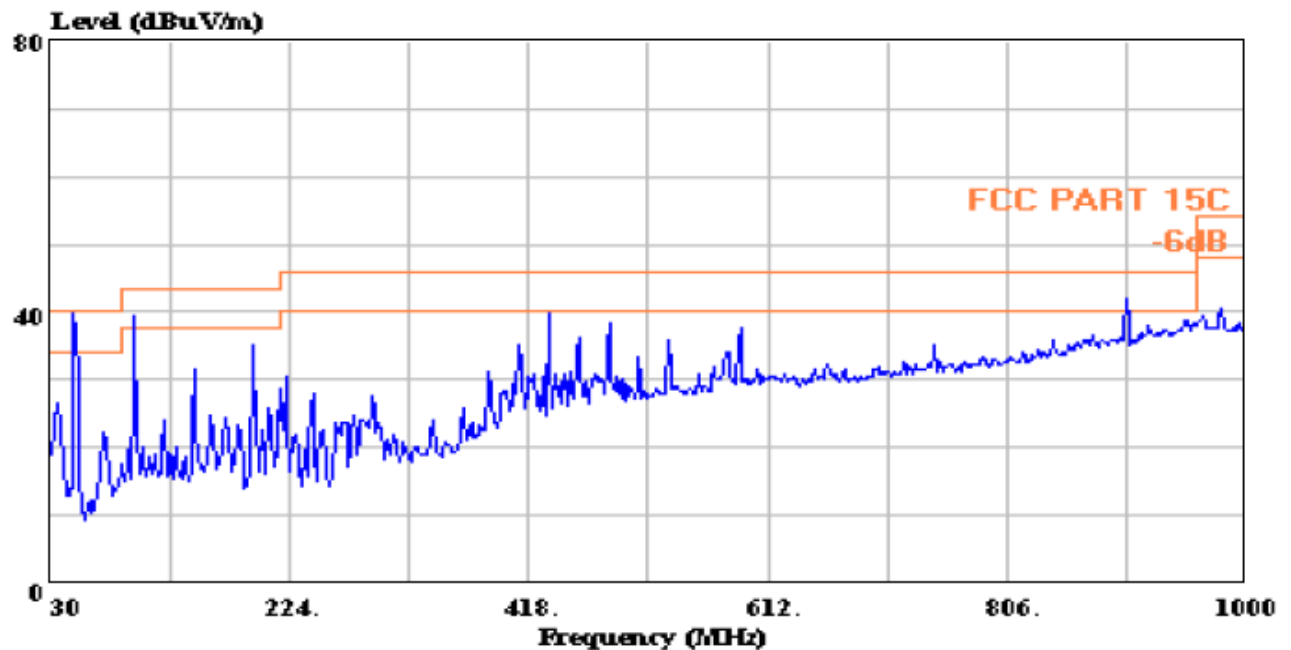
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Date: 2008-08-22 Time: 03:40:26



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz



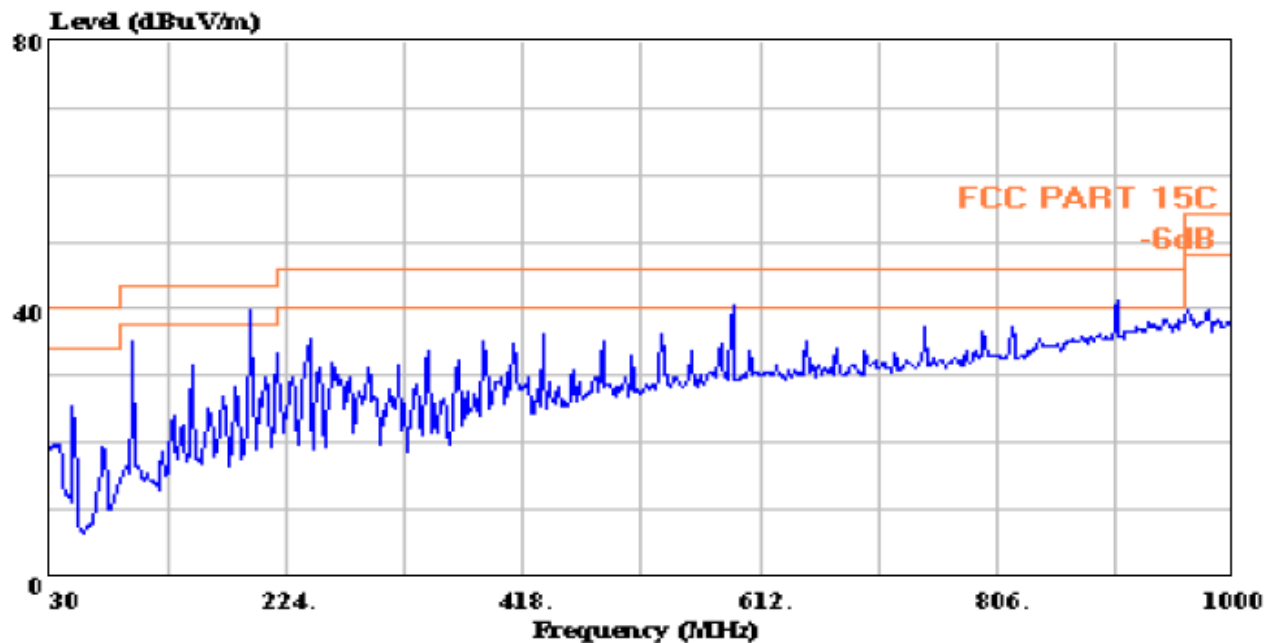
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Data#: 53 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:43:56



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

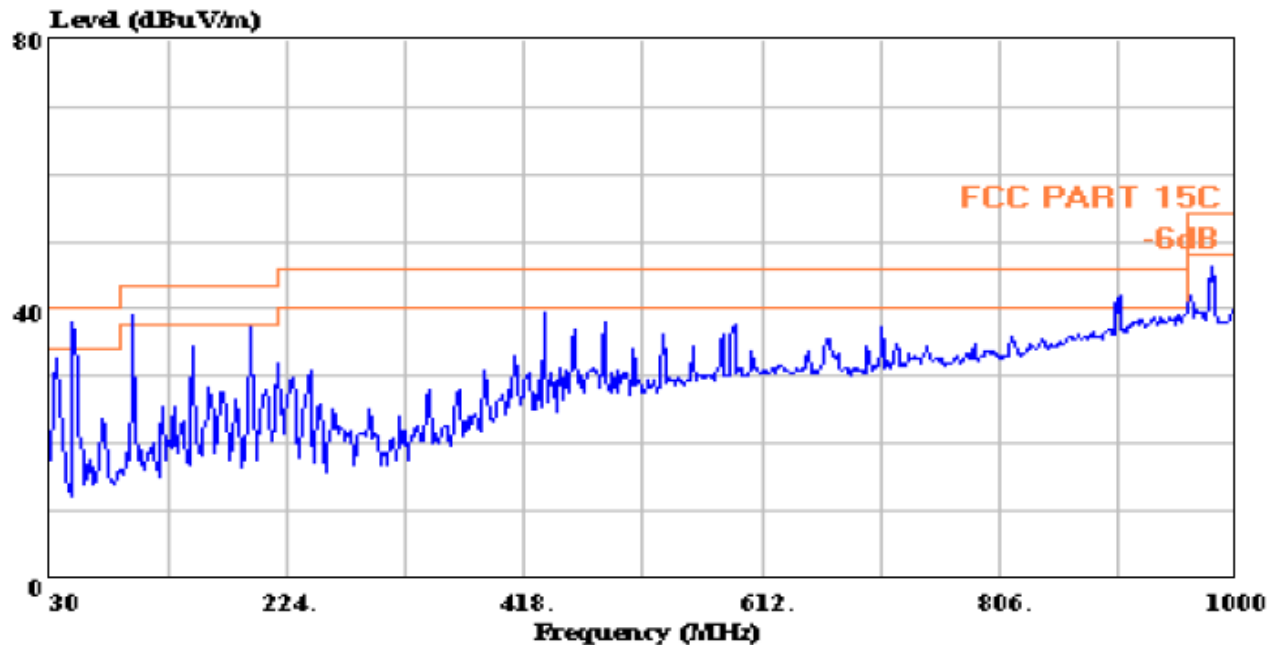


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Date: 2008-08-22 Time: 03:43:24



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

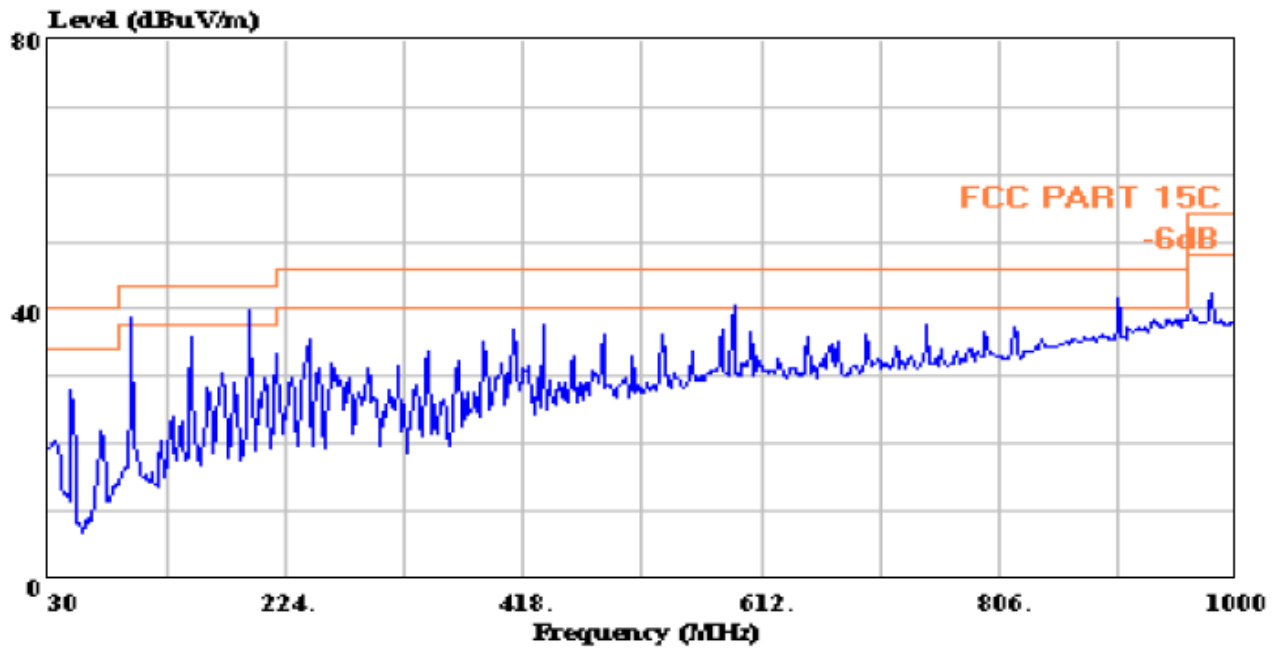


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Date: 2008-08-22 Time: 03:44:19



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz



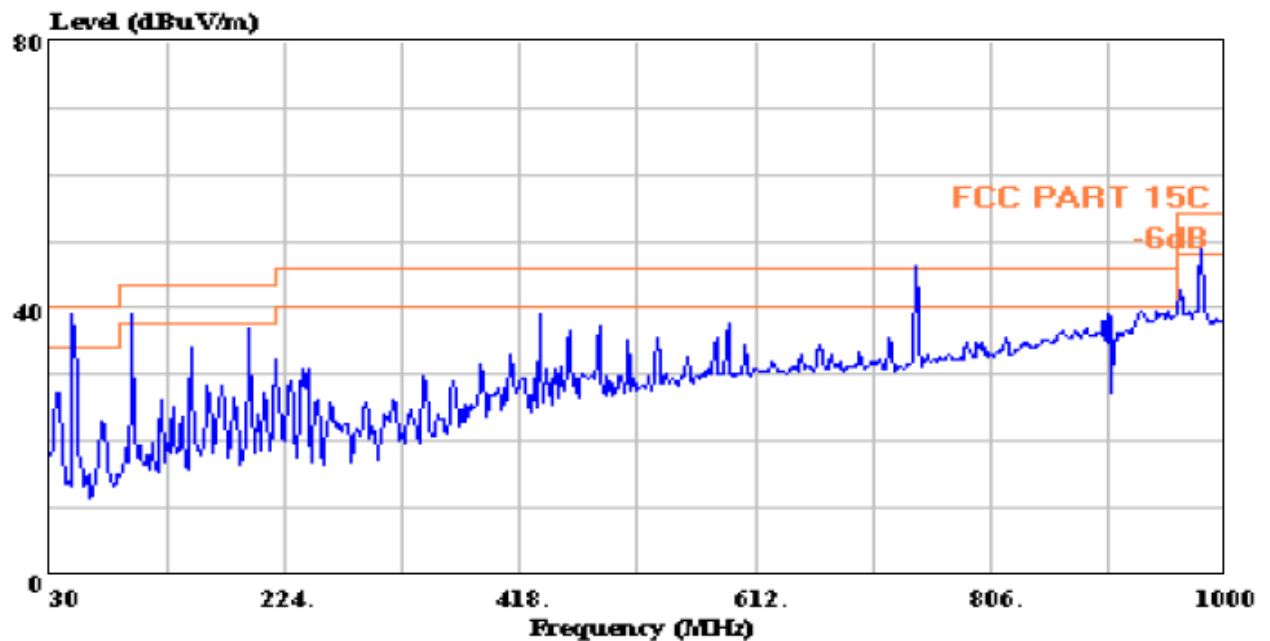
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Date: 2008-08-22 Time: 03:45:54



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

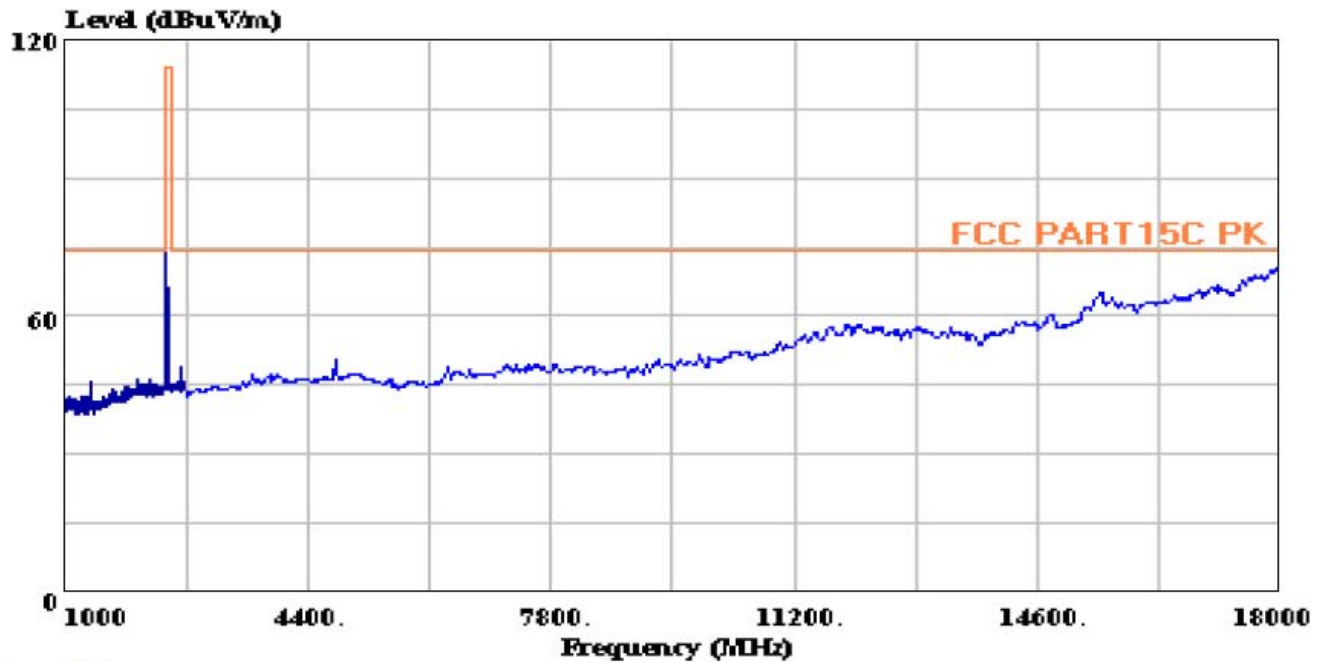


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Data#: 59 File#: \\966pci\radiation\P\President.EMI Date: 2008-08-22 Time: 03:59:38



Trace: 58

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

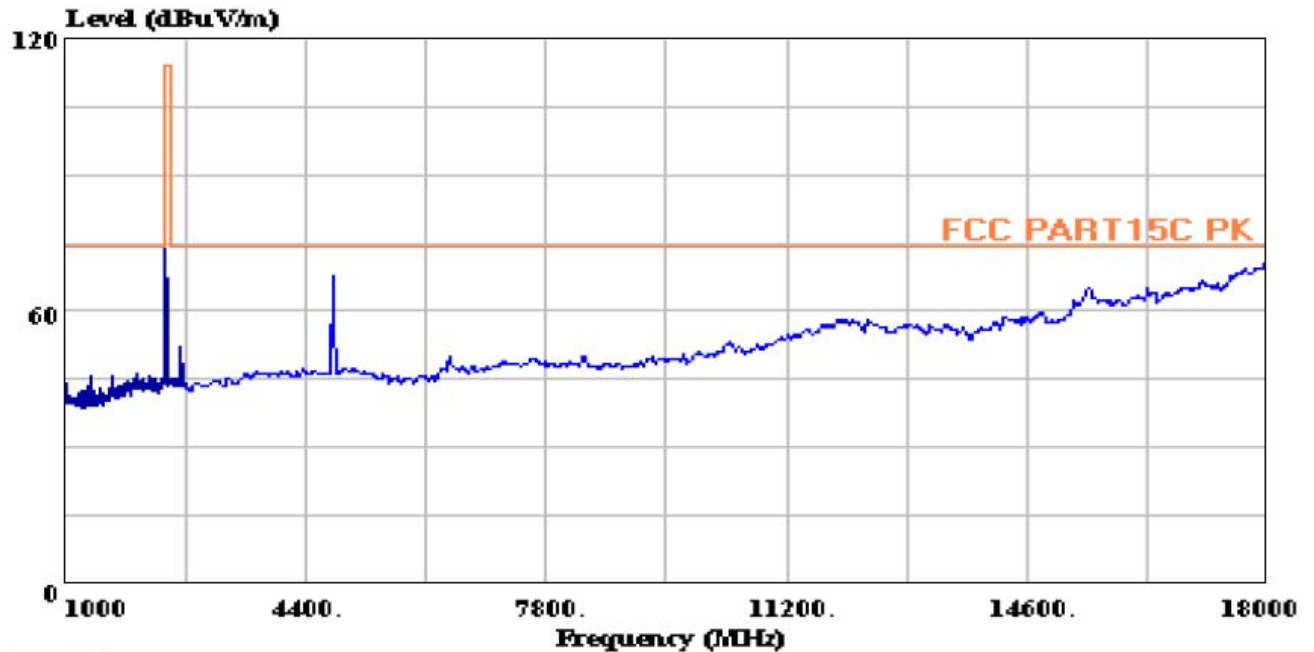


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Data#: 61 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:01:57

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Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

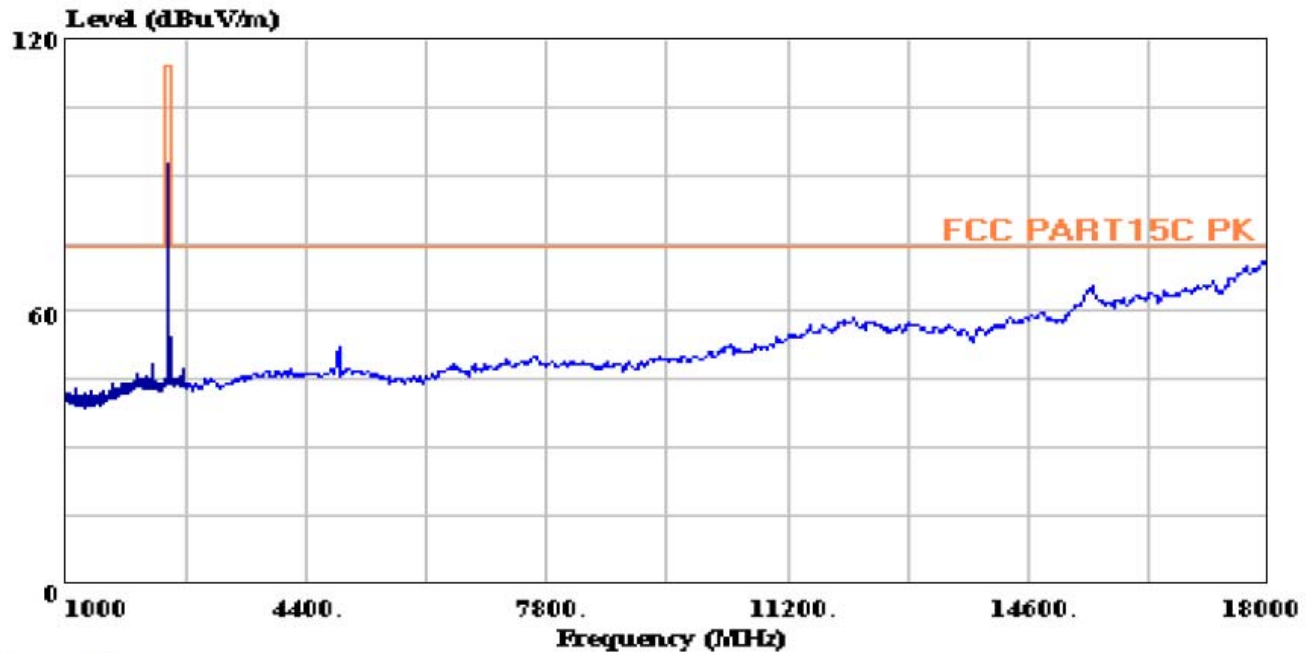


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Data#: 65 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:06:44



Trace: 64

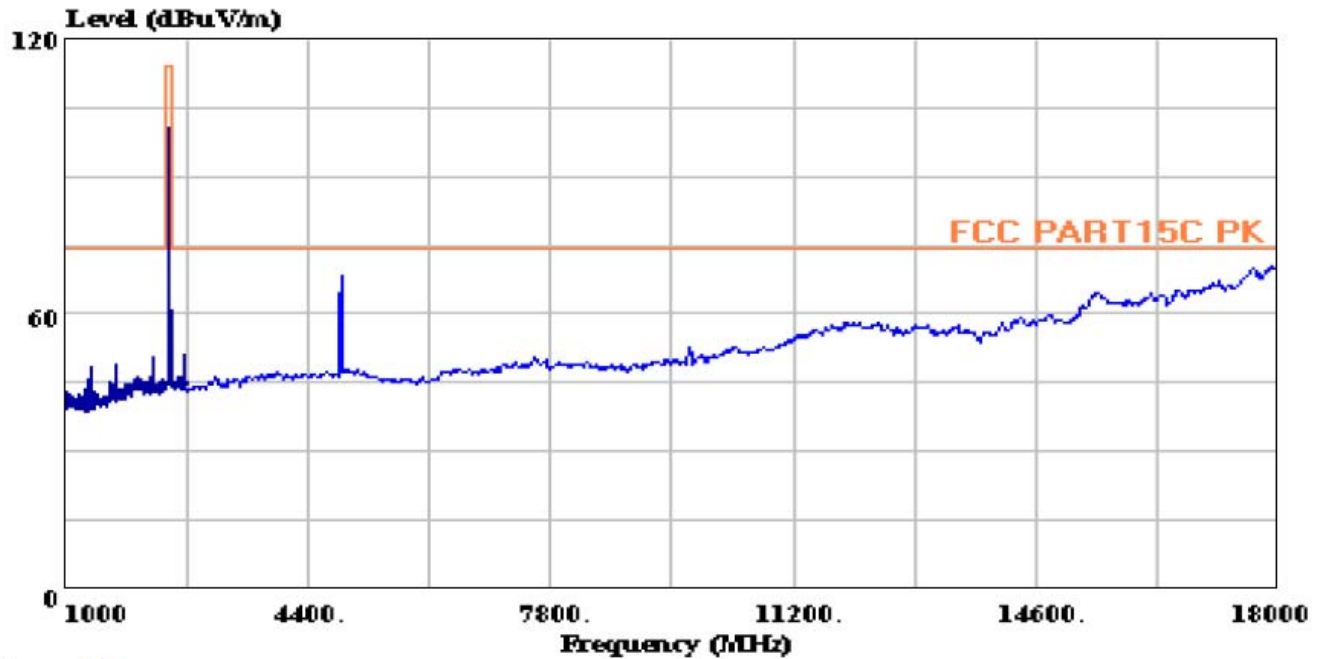
Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz



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Trace: 62

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

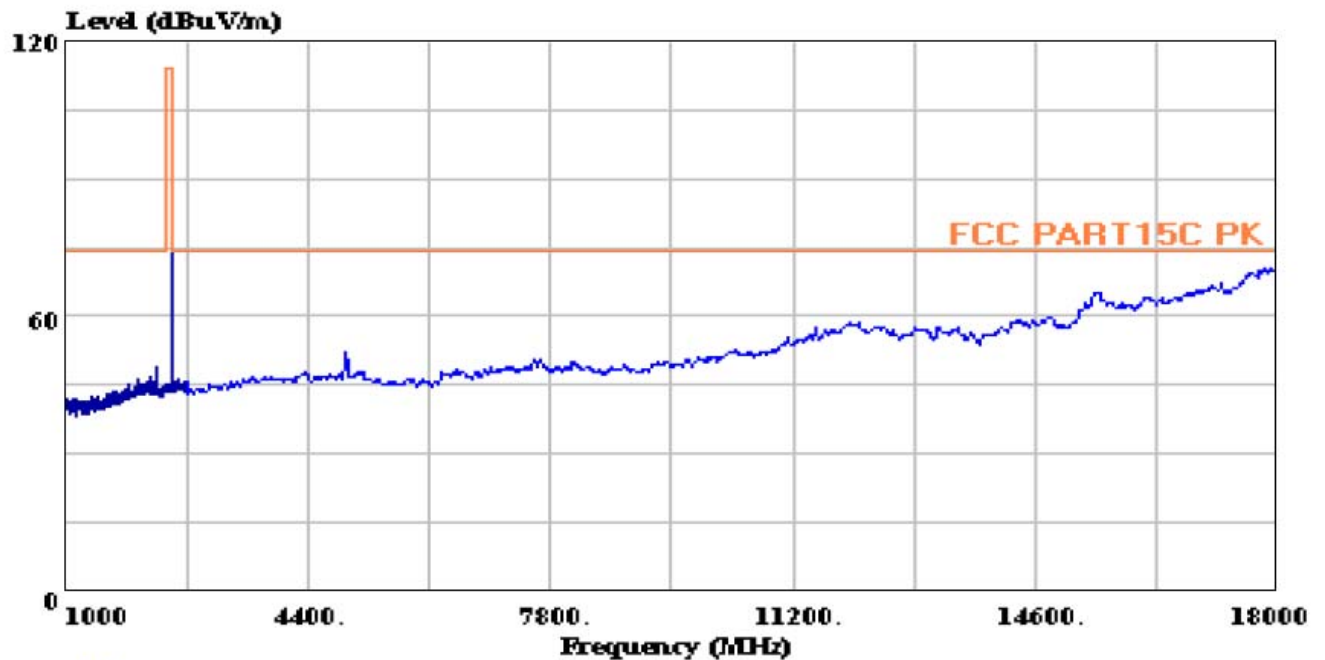


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Data#: 67 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:08:49

**Trace: 66**

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

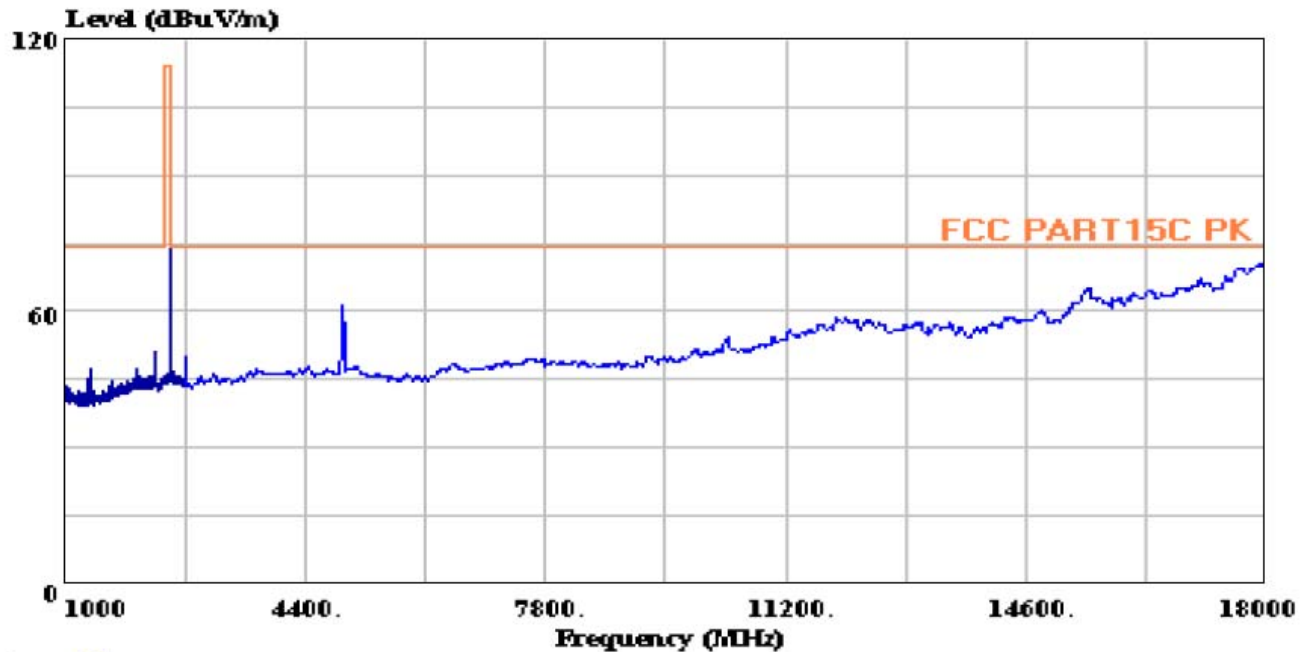


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Trace: 68

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz



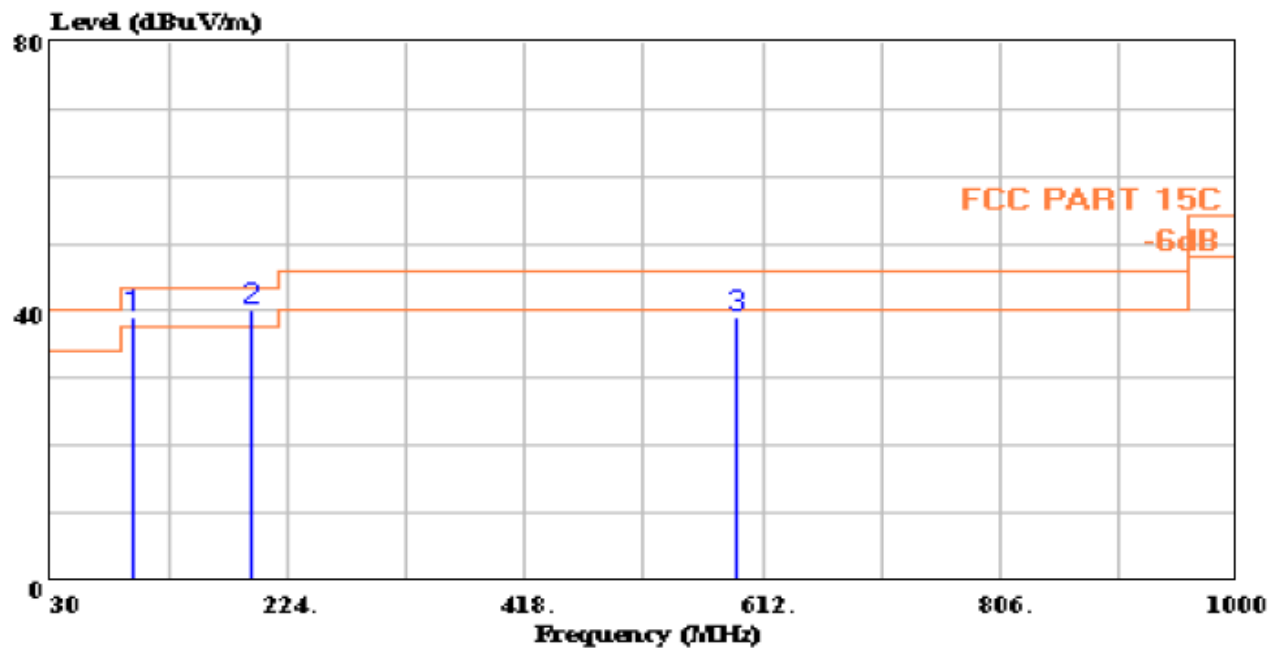
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Date: 2008-08-22 Time: 03:40:07



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz
: Ant high:2.6m; Table angle:172'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	96.930	38.96	-4.54	43.50	24.90	1.51	12.55	QP
2 !	193.930	40.17	-3.33	43.50	28.52	2.19	9.46	QP
3	589.690	39.11	-6.89	46.00	12.52	4.36	22.23	QP



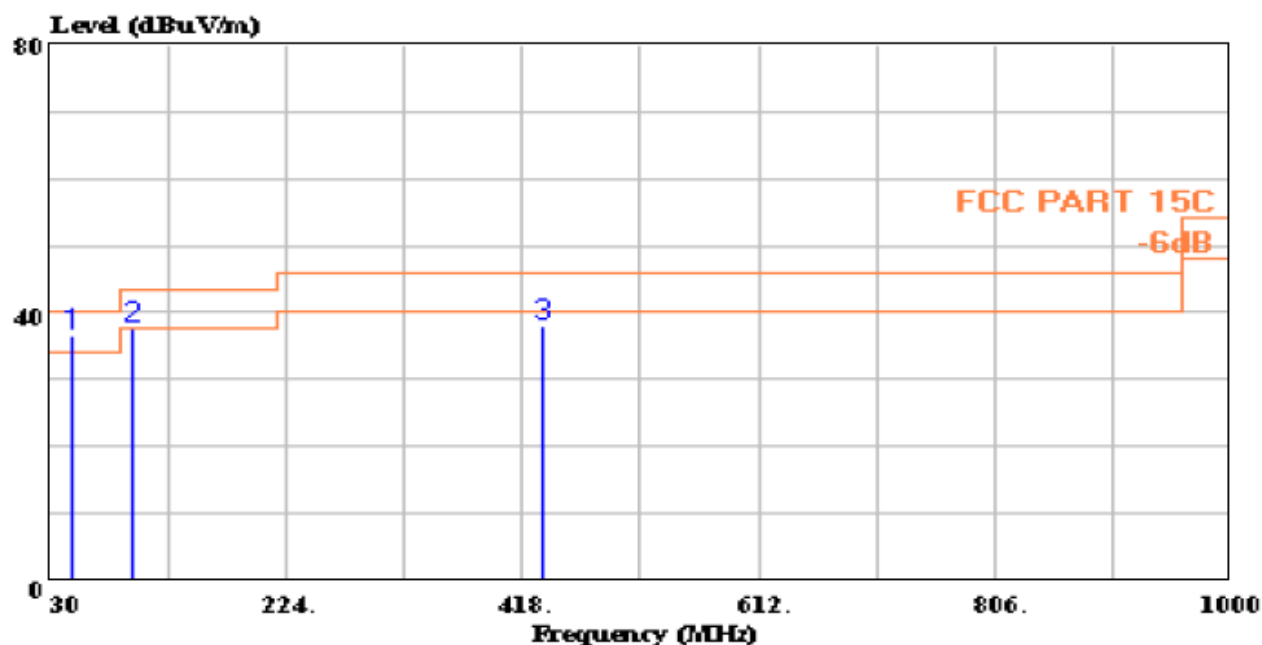
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Date: 2008-08-22 Time: 03:40:26



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz
: Ant high:1.3m; Table angle:53'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	48.430	36.62	-3.38	40.00	28.68	0.98	6.96	QP
2 !	96.930	37.64	-5.86	43.50	23.58	1.51	12.55	QP
3	434.490	38.13	-7.87	46.00	16.66	3.55	17.92	QP



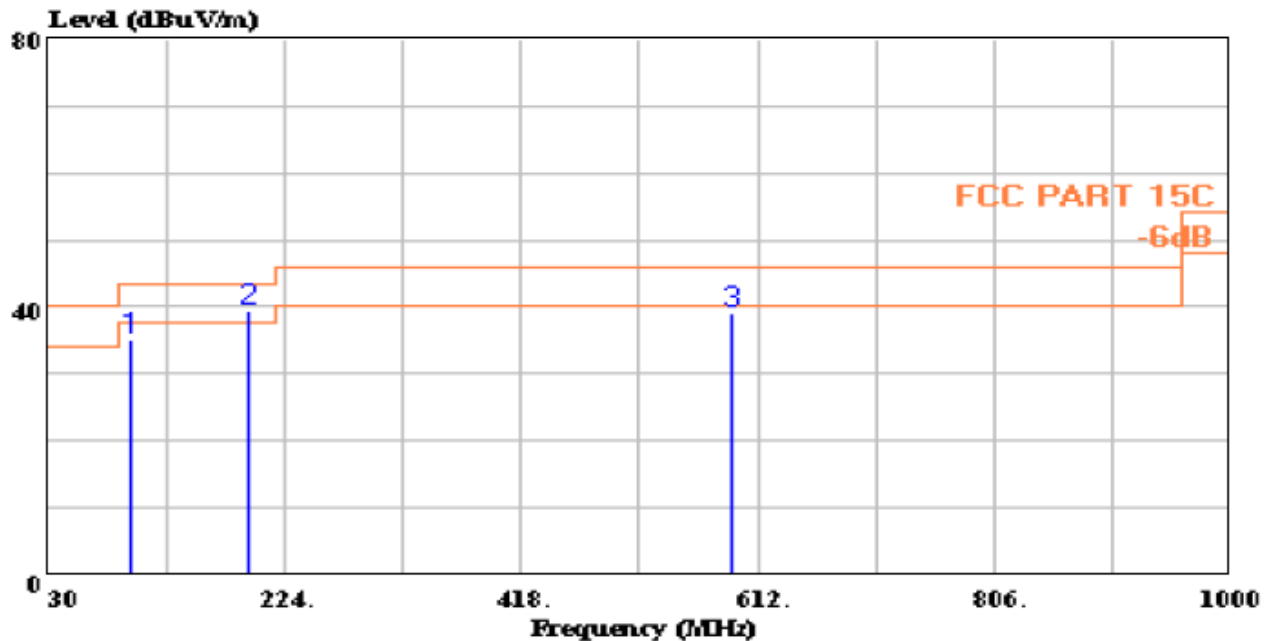
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Date: 2008-08-22 Time: 03:43:56



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz
: Ant high:3.4m; Table angle:168'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	96.930	35.30	-8.20	43.50	21.24	1.51	12.55	QP
2	193.930	39.34	-4.16	43.50	27.69	2.19	9.46	QP
3	589.690	39.05	-6.95	46.00	12.46	4.36	22.23	QP



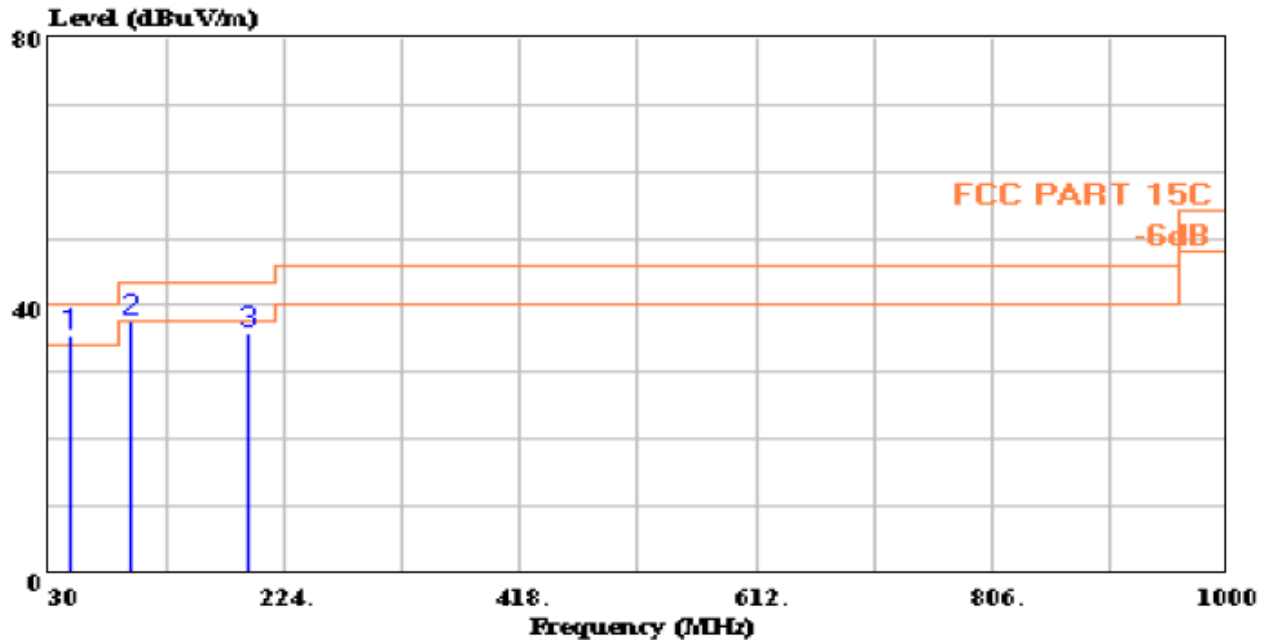
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Date: 2008-08-22 Time: 03:43:24



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz
: Ant high:1.1m; Table angle:42'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	48.430	35.67	-4.33	40.00	27.73	0.98	6.96	QP
2 !	96.930	37.72	-5.78	43.50	23.66	1.51	12.55	QP
3	193.930	35.80	-7.70	43.50	24.15	2.19	9.46	QP



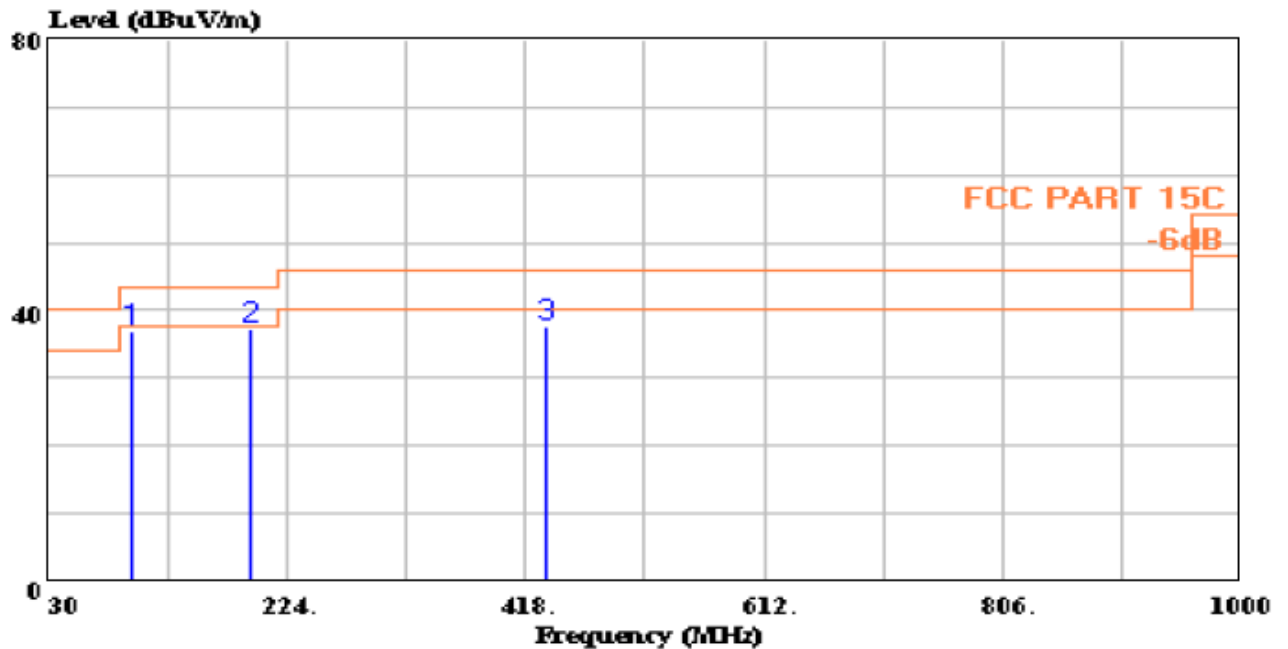
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www.nsemcsafety.com
www.nscn.cn

Data#: 92 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:44:19



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz
: Ant high:3.0m; Table angle:185'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	96.930	36.92	-6.58	43.50	22.86	1.51	12.55	QP
2	193.930	37.14	-6.36	43.50	25.49	2.19	9.46	QP
3	434.490	37.85	-8.15	46.00	16.38	3.55	17.92	QP



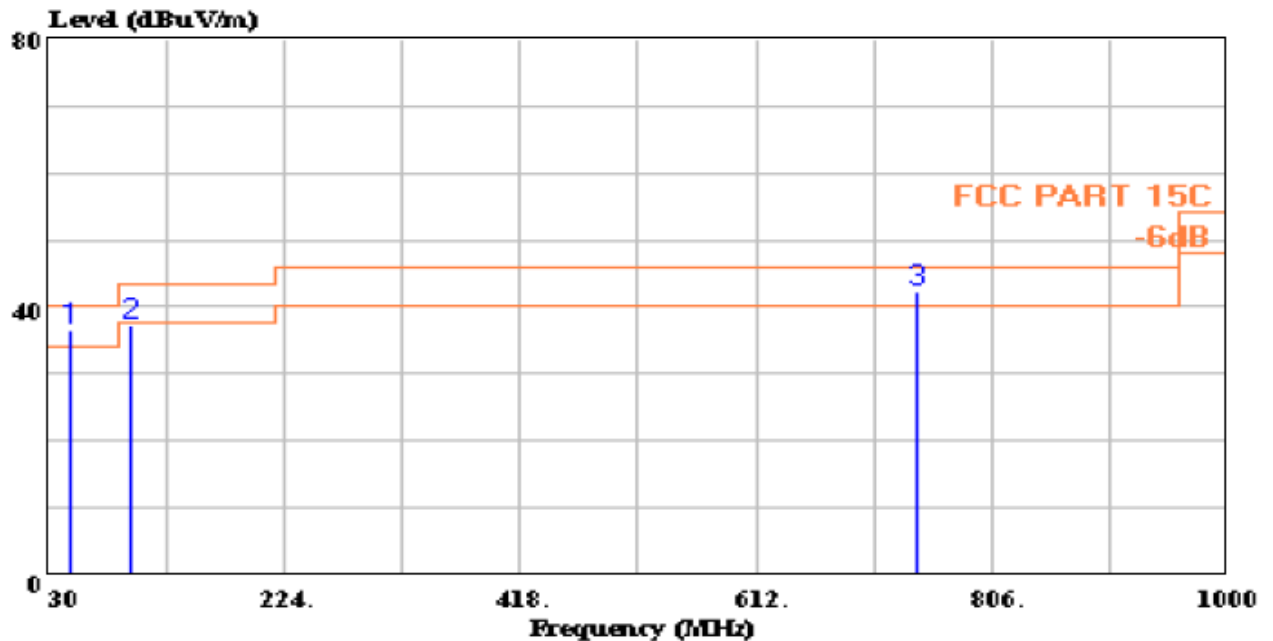
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Data#: 93 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:45:54



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz
: Ant high:1.1m; Table angle:39'

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1 !	48.430	36.62	-3.38	40.00	28.68	0.98	6.96	QP
2	96.930	37.14	-6.36	43.50	23.08	1.51	12.55	QP
3 !	744.890	42.31	-3.69	46.00	14.10	5.21	23.00	QP

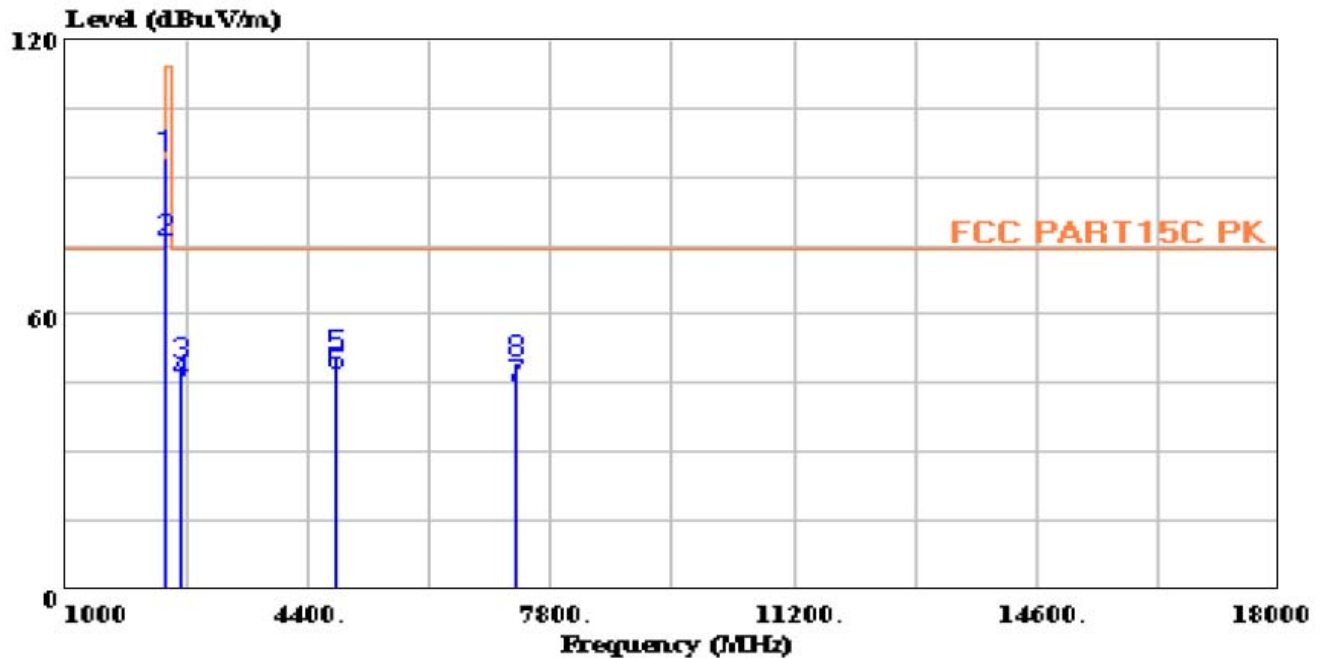


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Data#: 94 File#: \\966pcl\radiation\P\President.EMI Date: 2008-08-22 Time: 03:59:38



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2403.000	93.97	-20.01	113.98	60.24	2.23	31.50	Peak
2	2403.000	75.82	-18.16	93.98	42.09	2.23	31.50	Average
3	2624.560	49.11	-24.89	74.00	15.19	2.24	31.68	Peak
4	2624.560	45.32	-8.68	54.00	11.40	2.24	31.68	Average
5	4778.840	50.33	-23.67	74.00	13.39	2.37	34.57	Peak
6	4778.840	46.97	-7.03	54.00	10.03	2.37	34.57	Average
7	7306.640	44.32	-9.68	54.00	4.95	2.53	36.84	Average
8	7306.640	49.65	-24.35	74.00	10.28	2.53	36.84	Peak

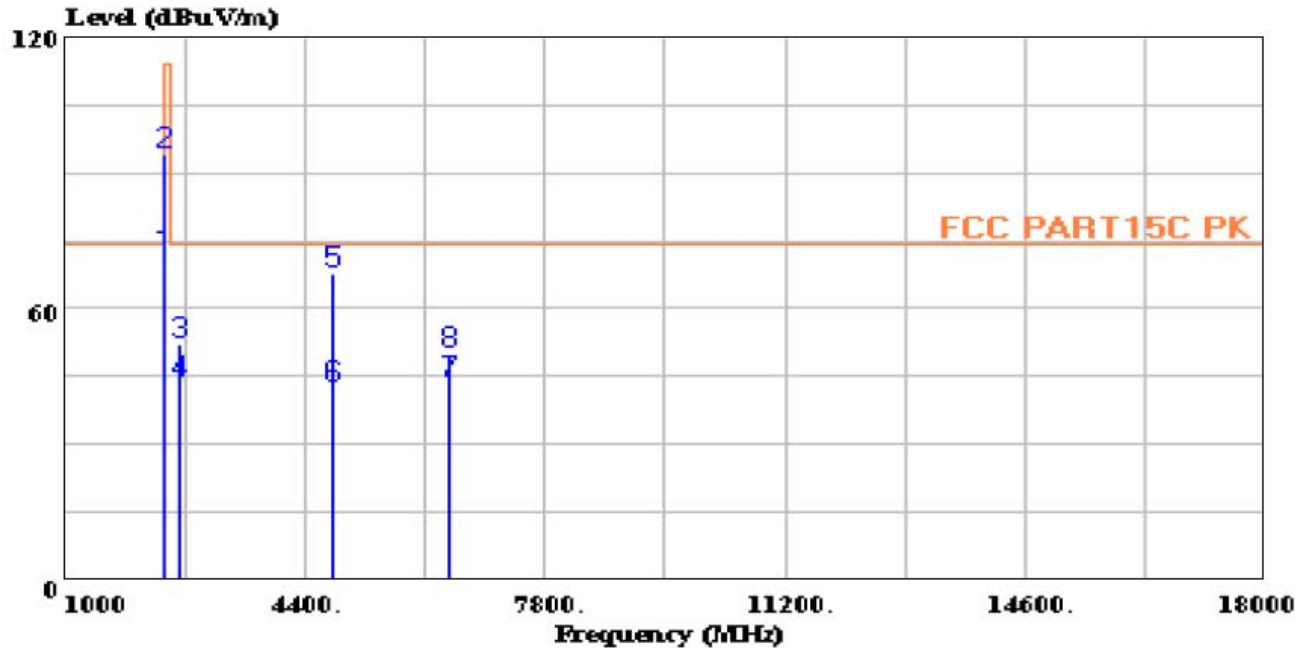


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Data#: 95 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:01:57



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2403.000	71.50	-22.48	93.98	37.77	2.23	31.50	Average
2	2403.000	94.34	-19.64	113.98	60.61	2.23	31.50	Peak
3	2627.920	51.95	-22.05	74.00	18.03	2.24	31.68	Peak
4	2627.920	43.37	-10.63	54.00	9.45	2.24	31.68	Average
5	4778.840	67.98	-6.02	74.00	31.04	2.37	34.57	Peak
6	4778.920	42.36	-11.64	54.00	5.42	2.37	34.57	Average
7	6418.080	43.82	-10.18	54.00	4.81	2.48	36.53	Average
8	6418.080	50.10	-23.90	74.00	11.09	2.48	36.53	Peak

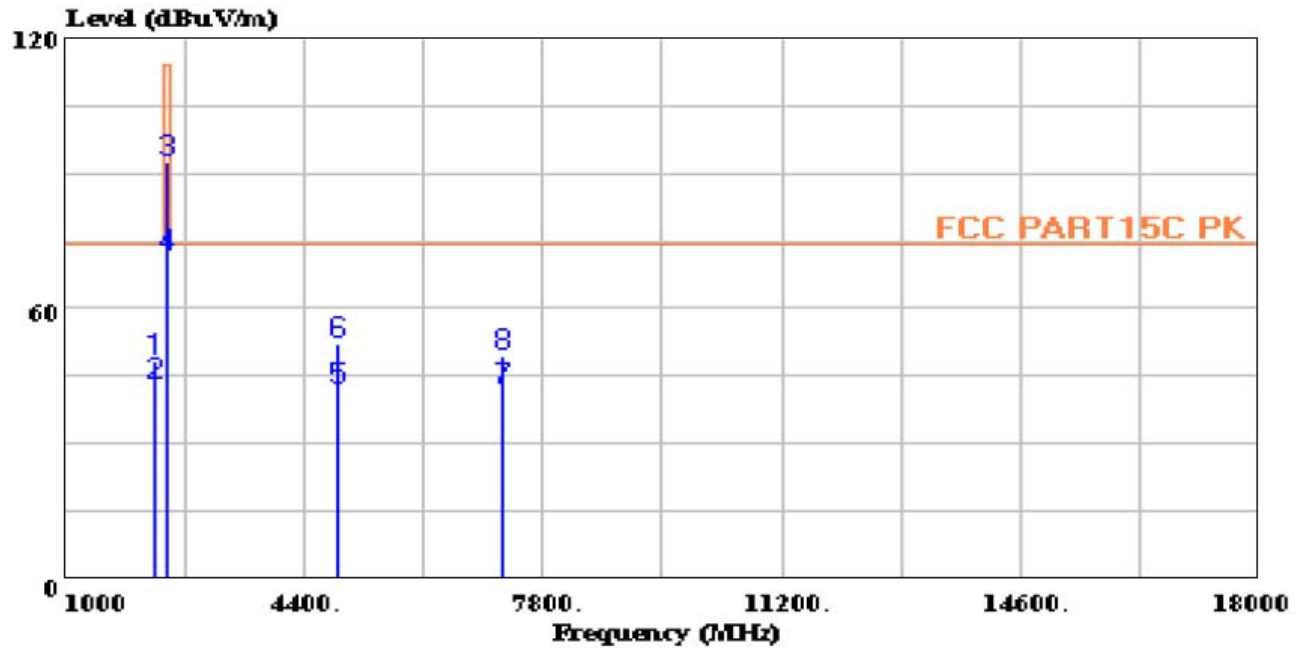


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Data#: 97 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:06:44



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2254.720	48.39	-25.61	74.00	14.84	2.22	31.33	Peak
2	2254.720	42.83	-11.17	54.00	9.26	2.22	31.35	Average
3	2443.000	92.67	-21.31	113.98	58.90	2.23	31.54	Peak
4	2443.000	71.51	-22.47	93.98	37.74	2.23	31.54	Average
5	4855.440	42.01	-11.99	54.00	5.02	2.38	34.61	Average
6	4855.440	52.20	-21.80	74.00	15.21	2.38	34.61	Peak
7	7230.040	41.92	-12.08	54.00	2.53	2.53	36.86	Average
8	7230.040	49.44	-24.56	74.00	10.05	2.53	36.86	Peak

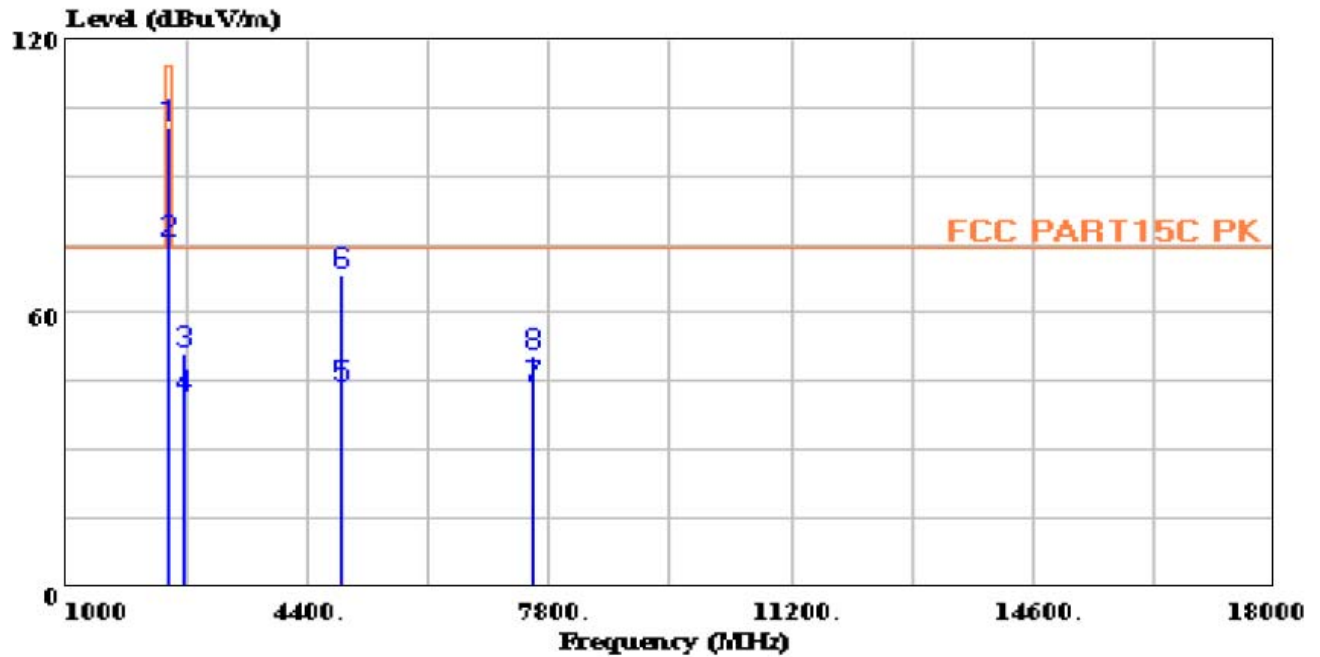


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Data#: 96 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:04:54



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2443.000	100.51	-13.47	113.98	66.74	2.23	31.54	Peak
2	2443.000	75.36	-18.62	93.98	41.59	2.23	31.54	Average
3	2669.920	51.20	-22.80	74.00	17.26	2.24	31.70	Peak
4	2669.920	41.68	-12.32	54.00	7.74	2.24	31.70	Average
5	4855.440	43.81	-10.19	54.00	6.82	2.38	34.61	Average
6	4855.440	68.10	-5.90	74.00	31.11	2.38	34.61	Peak
7	7567.080	43.32	-10.68	54.00	3.95	2.55	36.82	Average
8	7567.080	50.78	-23.22	74.00	11.41	2.55	36.82	Peak

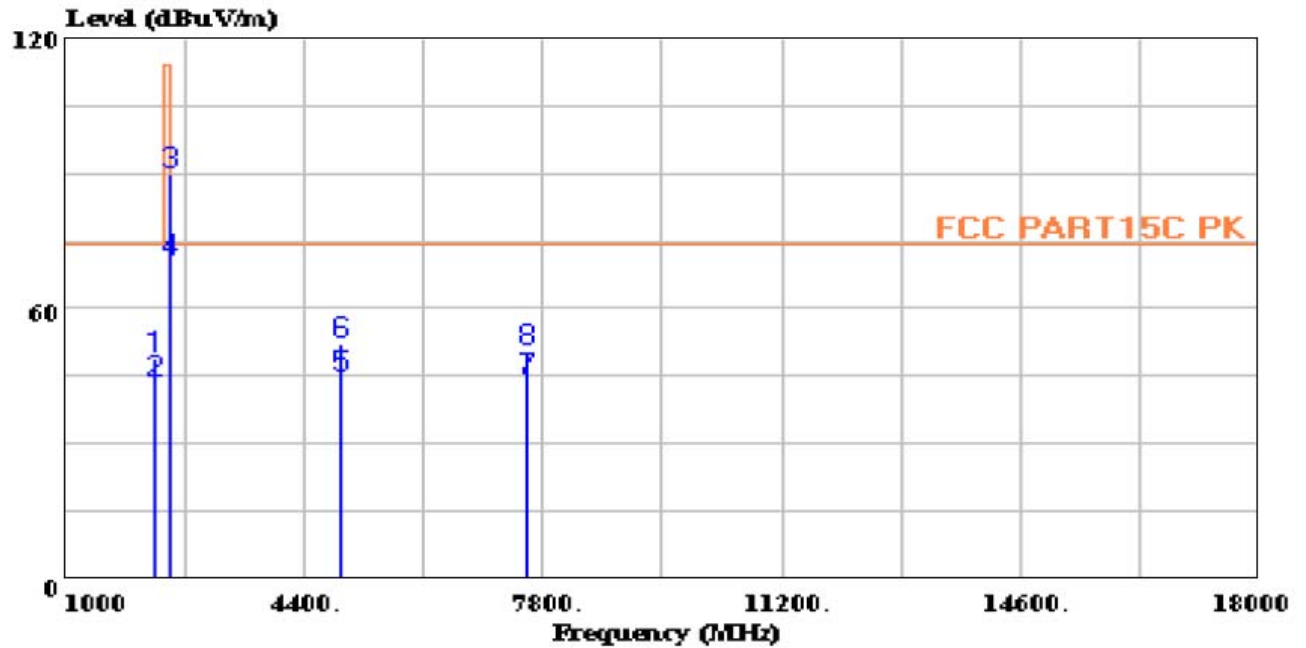


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Data#: 98 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:08:49



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2254.960	49.15	-24.85	74.00	15.58	2.22	31.35	Peak
2	2254.960	43.62	-10.38	54.00	10.05	2.22	31.35	Average
3	2478.000	89.99	-23.99	113.98	56.18	2.23	31.58	Peak
4	2478.000	70.56	-23.42	93.98	36.75	2.23	31.58	Average
5	4932.040	44.61	-9.39	54.00	7.57	2.38	34.66	Average
6	4932.040	52.16	-21.84	74.00	15.12	2.38	34.66	Peak
7	7567.080	44.30	-9.70	54.00	4.93	2.55	36.82	Average
8	7567.080	50.41	-23.59	74.00	11.04	2.55	36.82	Peak

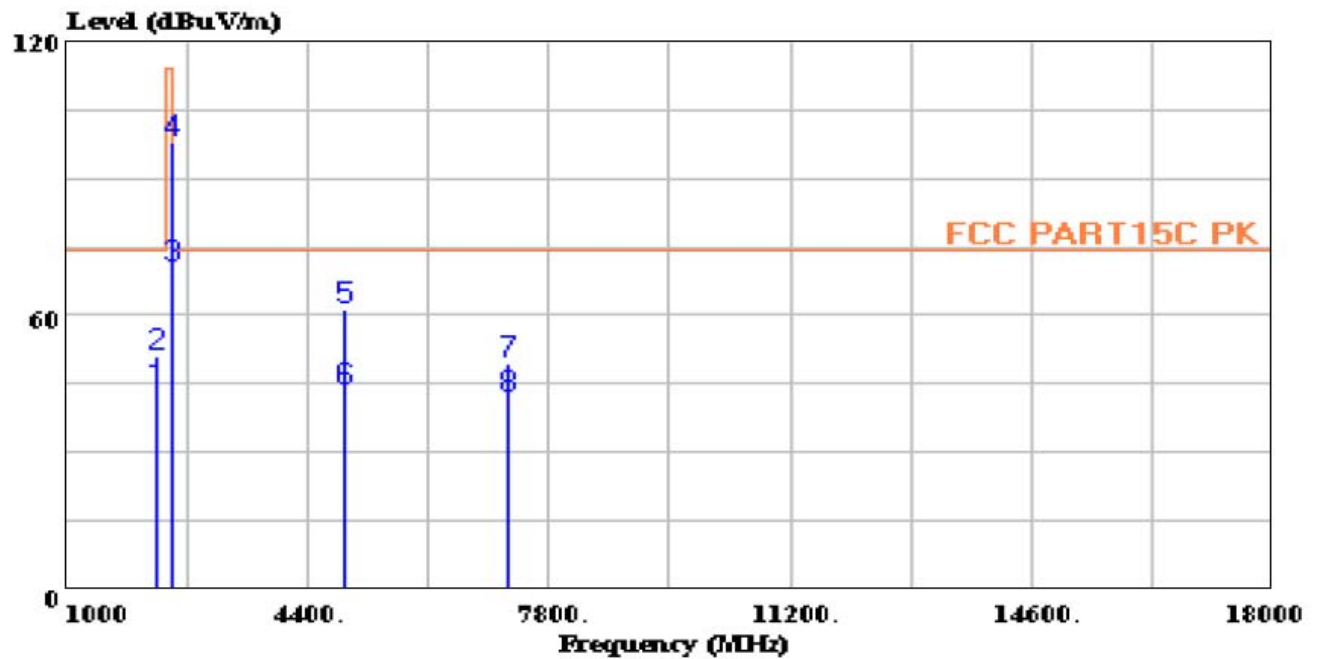


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Data#: 99 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:11:03



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2254.960	43.60	-10.40	54.00	10.03	2.22	31.35	Average
2	2254.960	51.36	-22.64	74.00	17.79	2.22	31.35	Peak
3	2478.000	70.68	-23.30	93.98	36.87	2.23	31.58	Average
4	2478.000	98.11	-15.87	113.98	64.30	2.23	31.58	Peak
5	4932.040	61.17	-12.83	74.00	24.13	2.38	34.66	Peak
6	4932.040	43.62	-10.38	54.00	6.58	2.38	34.66	Average
7	7230.040	49.32	-24.68	74.00	12.28	2.38	34.66	Peak
8	7230.040	41.85	-12.15	54.00	2.46	2.53	36.86	Average



4.2. 20dB Occupied Bandwidth

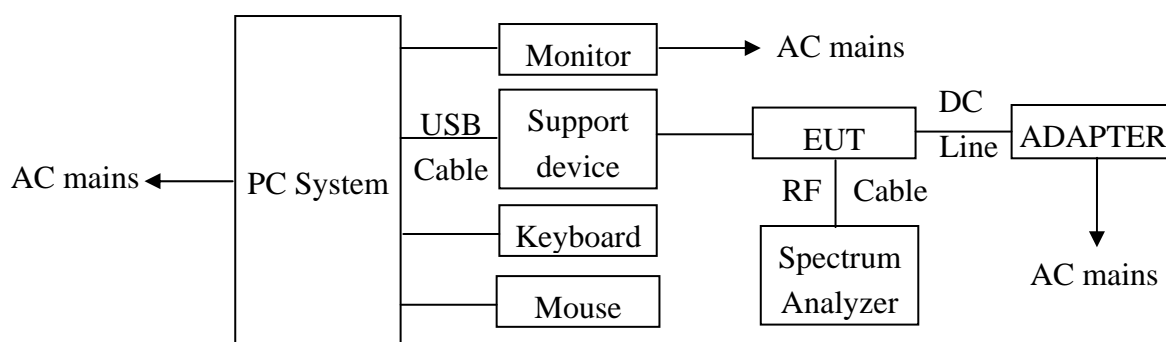
4.2.1. Test limits

No requirement.

4.2.2. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
2. Set the EUT work on the CH1, CH8,CH16 individually.
3. Set SA Center Frequency = Operation frequency, RBW=100kHz,VBW=100kHz.
4. Set SA trace max hold, then view.

4.2.3. Test setup diagram



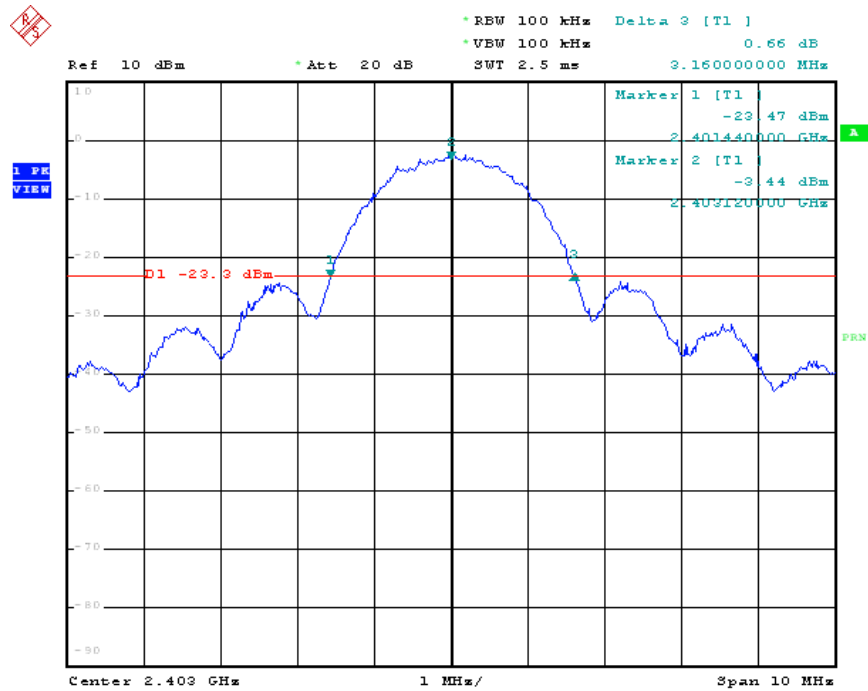
4.2.4. Test result

Pass

Test Channel	Frequency MHz	20dB Occupied bandwidth MHz
CH1	2403	3.16
CH8	2443	3.18
CH16	2478	3.16

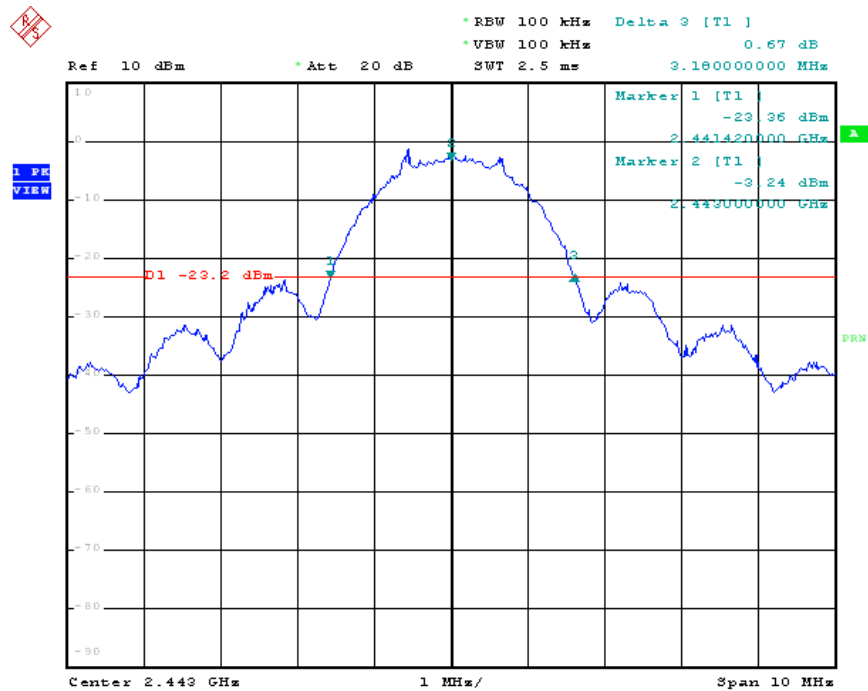
The test plots as following:

Test CH1:2403MHz



Date: 4.SEP.2008 11:56:46

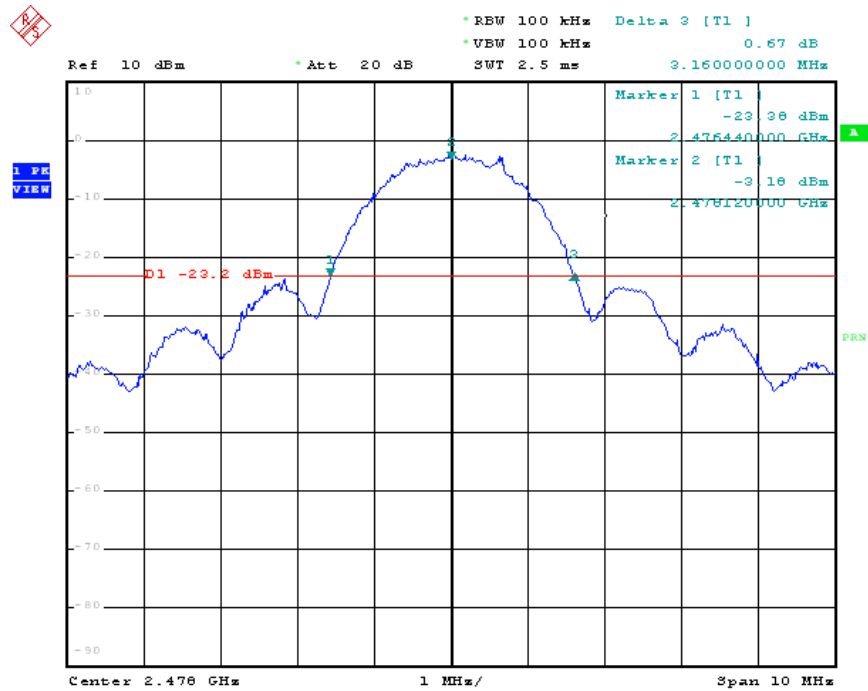
Test CH8:2443MHz



Date: 4.SEP.2008 11:59:56



Test CH16:2478MHz



Date: 4. SEP. 2008 12:02:52



4.3. Band Edge

4.4.1. Test limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

4.4.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used was a receiving antenna.

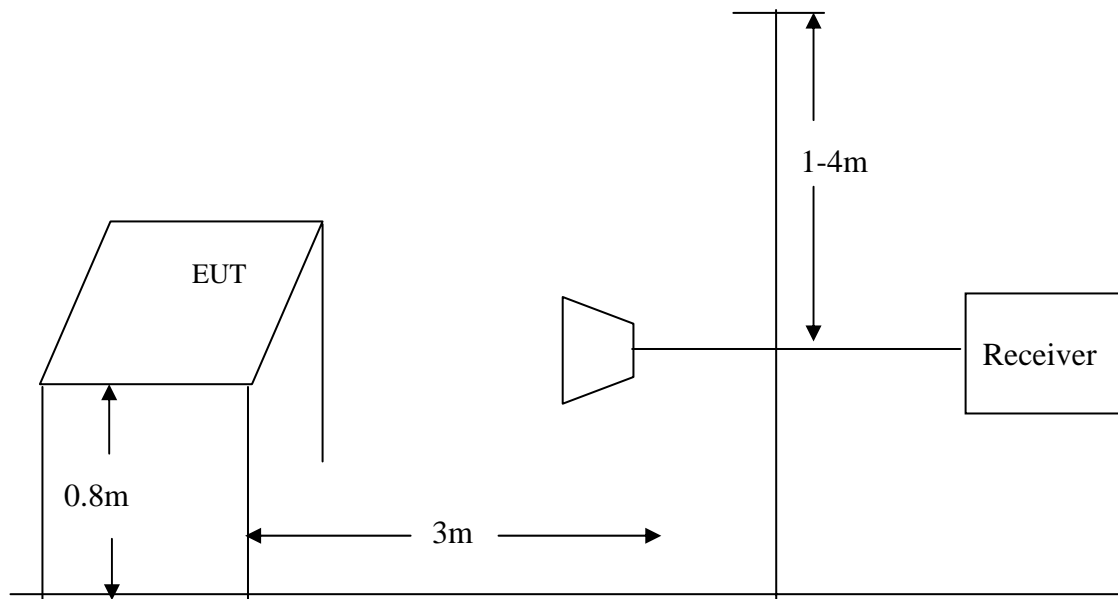
The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than $1/T$, so the video bandwidth is 10Hz.

The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

The EUT was tested in Chamber Site.

4.4.3. Test Setup Diagram



4.4.4. Test result

PASS.

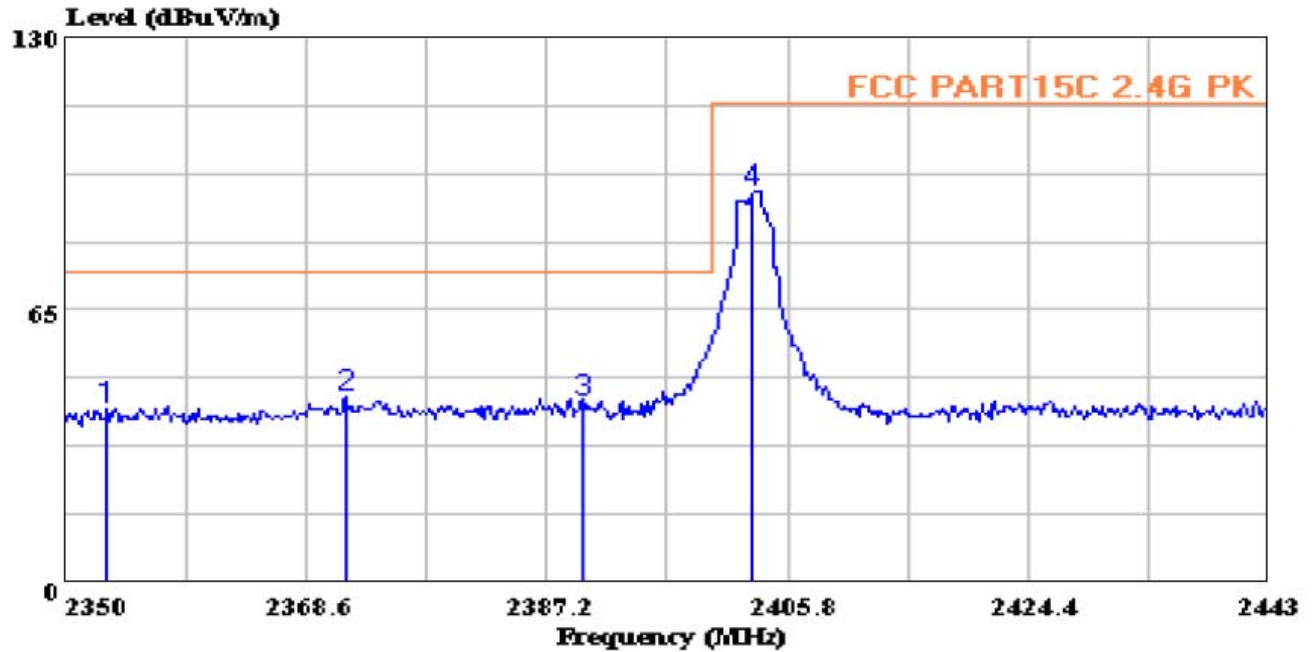
The test plots as following:

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Http://www.nsko.cn

Data#: 195 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:22:33



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2353.162	41.23	-32.77	74.00	7.56	2.22	31.45	Peak
2	2371.576	44.29	-29.71	74.00	10.59	2.22	31.48	Peak
3	2390.000	43.13	-30.87	74.00	9.40	2.23	31.50	Peak
4	2403.000	93.17	-20.81	113.98	59.43	2.23	31.51	Peak

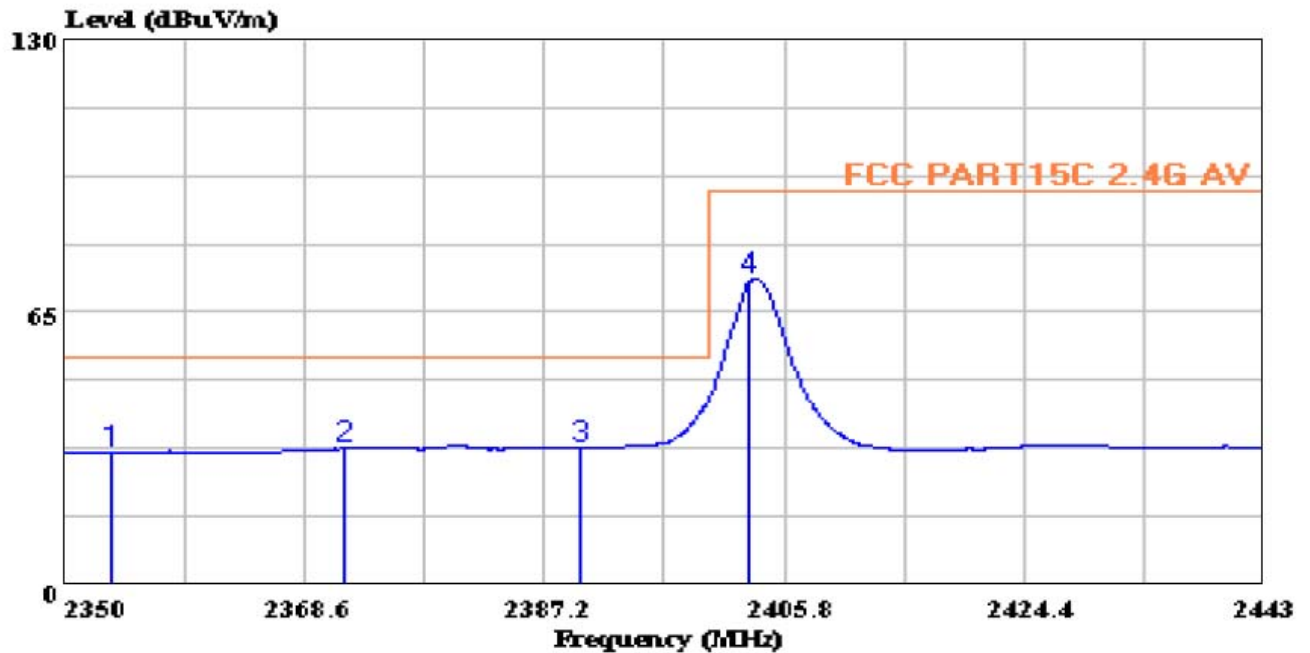


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Data#: 196 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:23:05



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2353.451	31.58	-22.42	54.00	-2.10	2.22	31.46	Average
2	2371.576	32.55	-21.45	54.00	-1.15	2.22	31.48	Average
3	2390.000	32.94	-21.06	54.00	-0.79	2.23	31.50	Average
4	2403.000	73.08	-20.90	93.98	39.34	2.23	31.51	Average

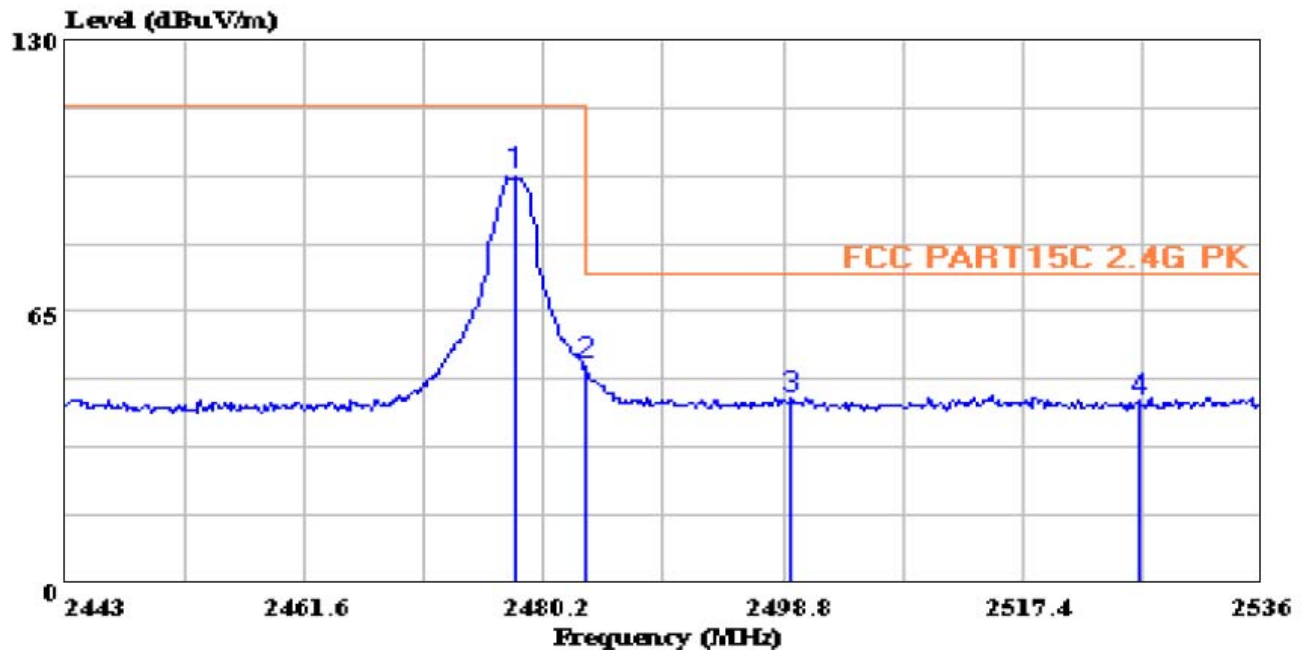


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Data#: 197 File#: \\966pcl\radiation\P\President.EMI Date: 2008-09-10 Time: 21:25:32



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m		dBuV/m	dBuV	dB	dB	
1	2478.000	97.87	-16.11	113.98	64.05	2.23	31.59	Peak
2	2483.500	52.72	-21.28	74.00	18.89	2.23	31.59	Peak
3	2499.451	44.41	-29.59	74.00	10.58	2.23	31.60	Peak
4	2526.421	43.63	-30.37	74.00	9.78	2.23	31.62	Peak

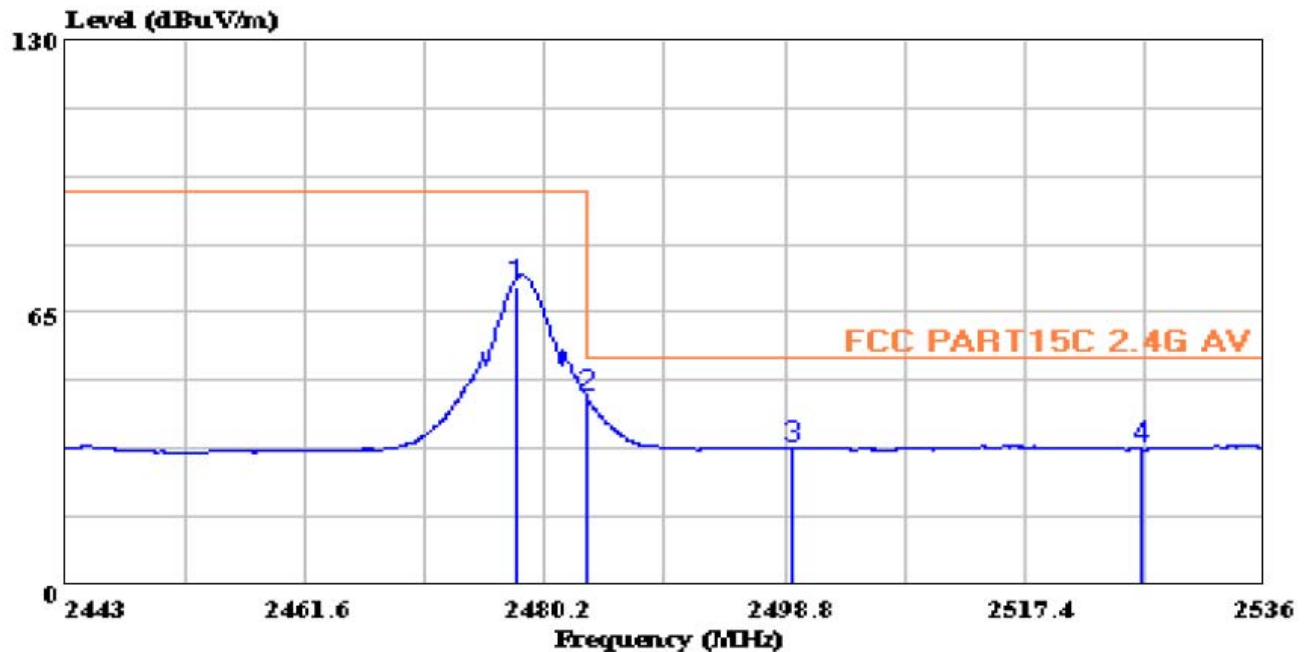


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Data#: 198 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:26:01



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 VERTICAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2478.000	71.35	-22.63	93.98	37.53	2.23	31.59	Average
2	2483.500	44.85	-9.15	54.00	11.03	2.23	31.59	Average
3	2499.451	32.66	-21.34	54.00	-1.18	2.23	31.61	Average
4	2526.421	32.79	-21.21	54.00	-1.06	2.23	31.62	Average

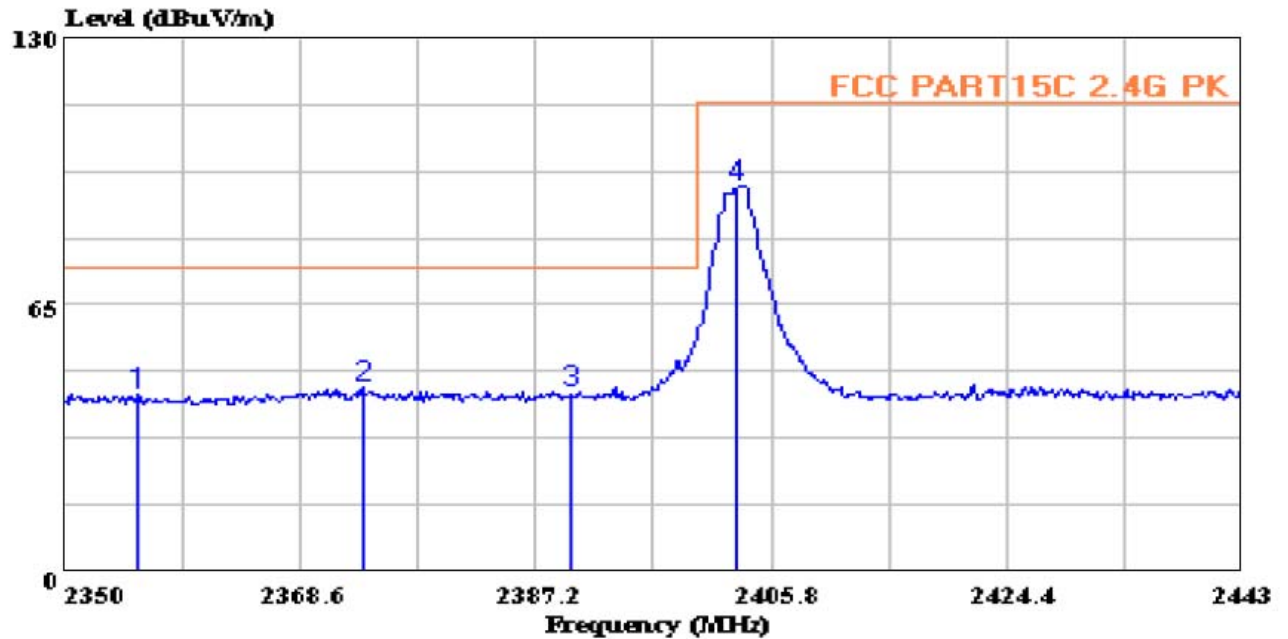


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Data#: 201 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:29:34



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2355.766	43.19	-30.81	74.00	9.51	2.22	31.46	Peak
2	2373.436	44.68	-29.32	74.00	10.98	2.22	31.48	Peak
3	2390.000	43.71	-30.29	74.00	9.98	2.23	31.50	Peak
4	2403.000	93.67	-20.31	113.98	59.93	2.23	31.51	Peak

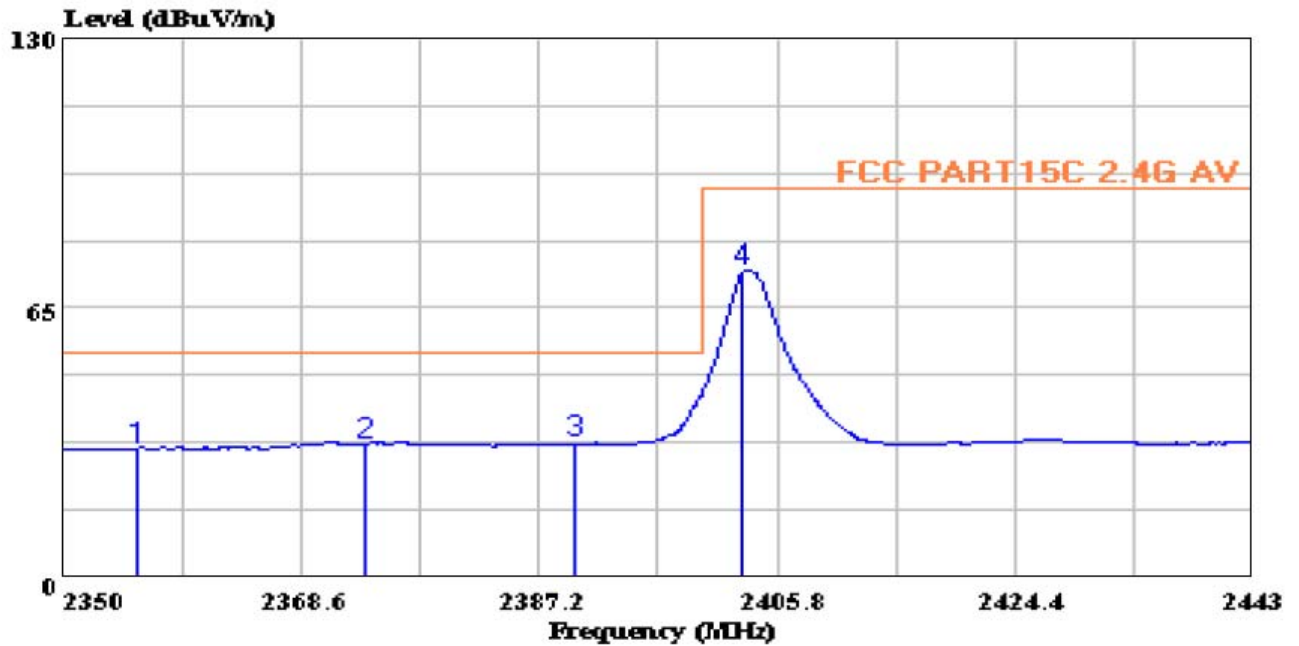


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Data#: 202 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:32:36



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

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	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2355.766	31.03	-22.97	54.00	-2.65	2.22	31.46	Average
2	2373.436	32.33	-21.67	54.00	-1.37	2.22	31.48	Average
3	2390.000	32.36	-21.64	54.00	-1.37	2.23	31.50	Average
4	2403.000	74.29	-19.69	93.98	40.55	2.23	31.51	Average

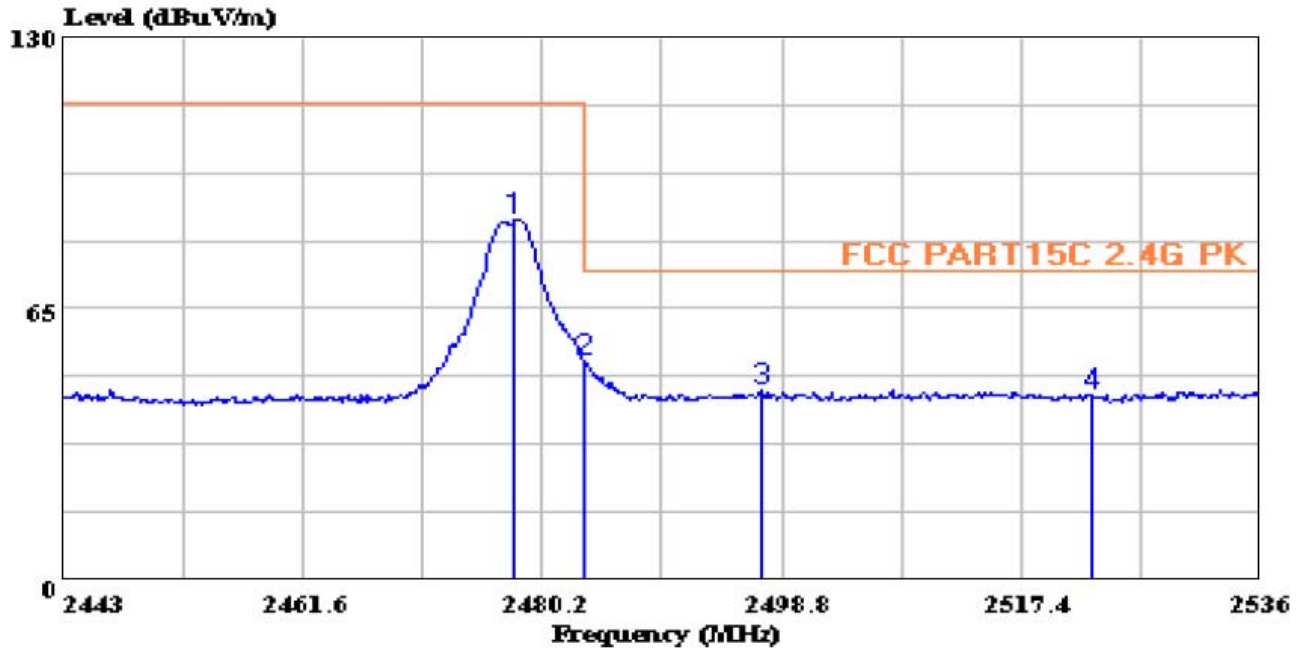


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Data#: 200 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:28:08



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

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	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m		dBuV/m	dBuV			
1	2478.000	86.11	-27.87	113.98	52.29	2.23	31.59	Peak
2	2483.500	52.30	-21.70	74.00	18.48	2.23	31.59	Peak
3	2497.126	45.19	-28.81	74.00	11.36	2.23	31.60	Peak
4	2522.887	44.26	-29.74	74.00	10.41	2.23	31.62	Peak

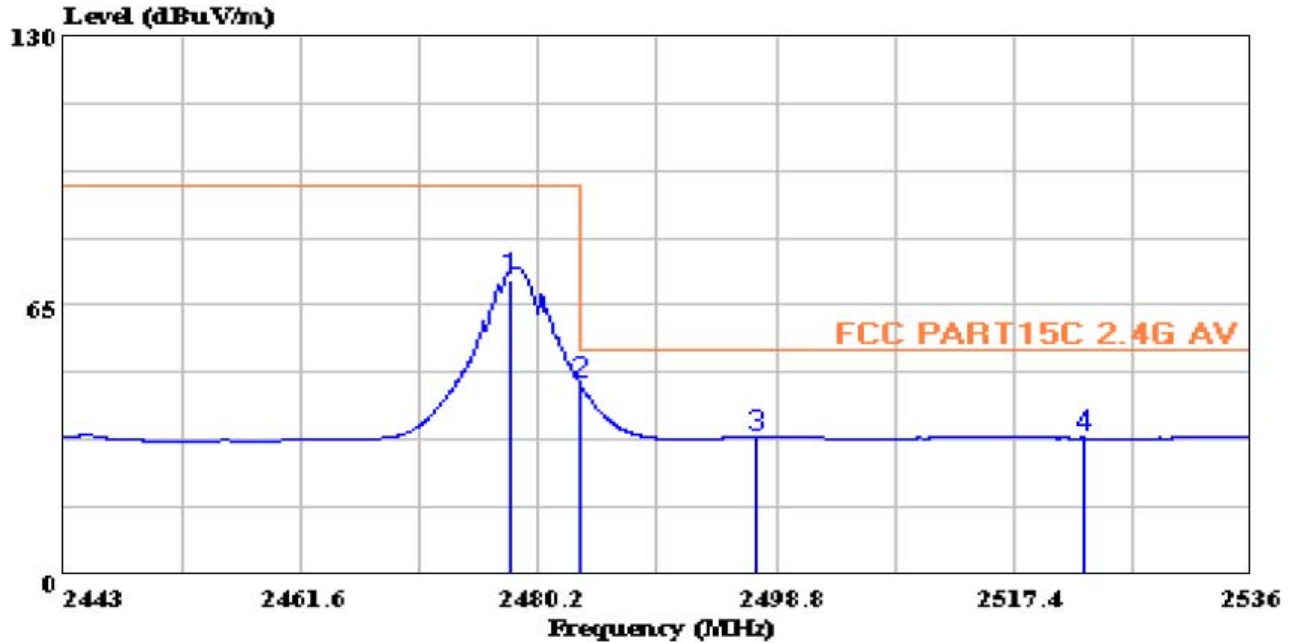


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Data#: 199 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:27:35



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 HORIZONTAL
EUT : CYFI iPod Transmitter
M/N : KB84TX
Power : DC 5V
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

Page: 1

	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2478.000	71.36	-22.62	93.98	37.54	2.23	31.59	Average
2	2483.500	45.97	-8.03	54.00	12.15	2.23	31.59	Average
3	2497.126	33.23	-20.77	54.00	-0.61	2.23	31.61	Average
4	2522.887	33.09	-20.91	54.00	-0.76	2.23	31.62	Average

