

FCC COMPLIANCE REPORT

for

CYFI LLC

CYFI Portable Speaker

Model Number: CYFI 18

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 Portable Speaker		
Model Number:	CYFI 18		
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 Portable Speaker(red, yellow, grey, black)
Model No.	: CYFI 18
Operating Frequency	: 2403MHz to 2478MHz
Number of Channels	: 16 Channels
Channel Separation	: 5MHz
Modulation type	: MSK
Transfer rate	: 2.37 Mb/s
Antenna Type	: Integral
Output power	: 1.11dBm(Maximum measured)
Antenna Assembly Gain	: 0.3Bi (maximum)
System Input Voltage	: Nominal Voltage: DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Temperature Range(Operating)	: +15 ~+ 35°C
ADAPTER	: Manufacturer : DVE Model No. : DSP-15P-05 US 050100
DC Line	: Unshielded, Undetachable 1.8m
USB Cable	: Shielded, Detachable 1.0m

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

2.2.9. For conducted emission at the mains terminal test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100199	Mar.20,08	Mar.20,09
L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100071	Mar.20,08	Mar.20,09
L.I.S.N.#2(AUX)	Rohde & Schwarz	ESH3-Z5	100317	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	PASS
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

4.1. Conducted Emission at The Mains Terminals Test

RESULT : **Pass**
Test procedure : ANSI C63.4: 2003
Frequency range : 0.15~30MHz
Test Site : Shielded Room
Limits : FCC Part 15: 15.207

Test Setup

Date of test : Aug. 21, 2008
Input Voltage : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Operation Mode : TX CH1 (2403MHz)
TX CH8 (2443MHz)
TX CH16 (2478MHz)

The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m.

The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (R&S ESCS30) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst case condition(s) was reported on the following page.



Test Data

EUT:	CYFI Portable Speaker	Temperature:	25.3°C
M/N:	CYFI 18	Humidity:	55%
Test Mode:	TX CH1 (2403MHz)	Test Engineer:	David

Conducted Emission at The Mains Terminals Test					
Frequency (MHz)	Reading (dB μ V)			Limit (dB μ V)	
	Quasi-Peak	Average	Ports	Quasi-Peak	Average
0.266	36.65	28.15	Neutral	61.3	51.3
0.524	25.37	18.30	Neutral	56.0	46.0
1.077	35.10	28.60	Neutral	56.0	46.0
2.155	36.47	29.05	Neutral	56.0	46.0
3.241	34.36	27.56	Neutral	56.0	46.0
12.920	24.13	16.36	Neutral	60.0	50.0
0.216	35.37	29.96	Line	63.0	53.0
0.272	42.38	37.57	Line	61.1	51.1
0.518	33.98	26.30	Line	56.0	46.0
1.076	37.61	31.90	Line	56.0	46.0
2.153	37.43	31.62	Line	56.0	46.0
12.918	27.40	21.22	Line	60.0	50.0

Note: 1. Test uncertainty: ± 1.99 dB at a level of confidence of 95%.

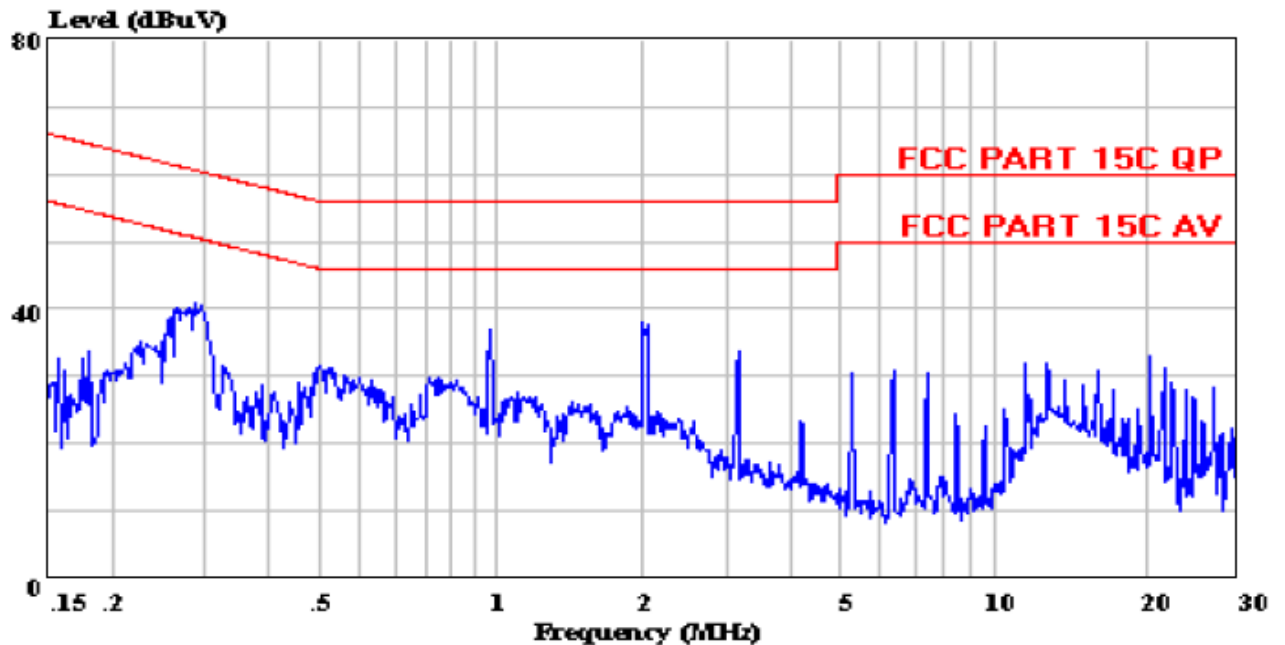


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Data#: 17 File#: D:\Conduction\P\president.EMI

Date: 2008-08-21 Time: 09:14:50



Site : 844 Shielded Room
Condition : FCC PART 15C AV FACTOR NEUTRAL
EUT : CYFI Portable Speaker
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
M/N : CYFI 18
Test Engineer: David
Comment : Temp:25'C Humi:56%
Memo : TX CH1 2403MHz

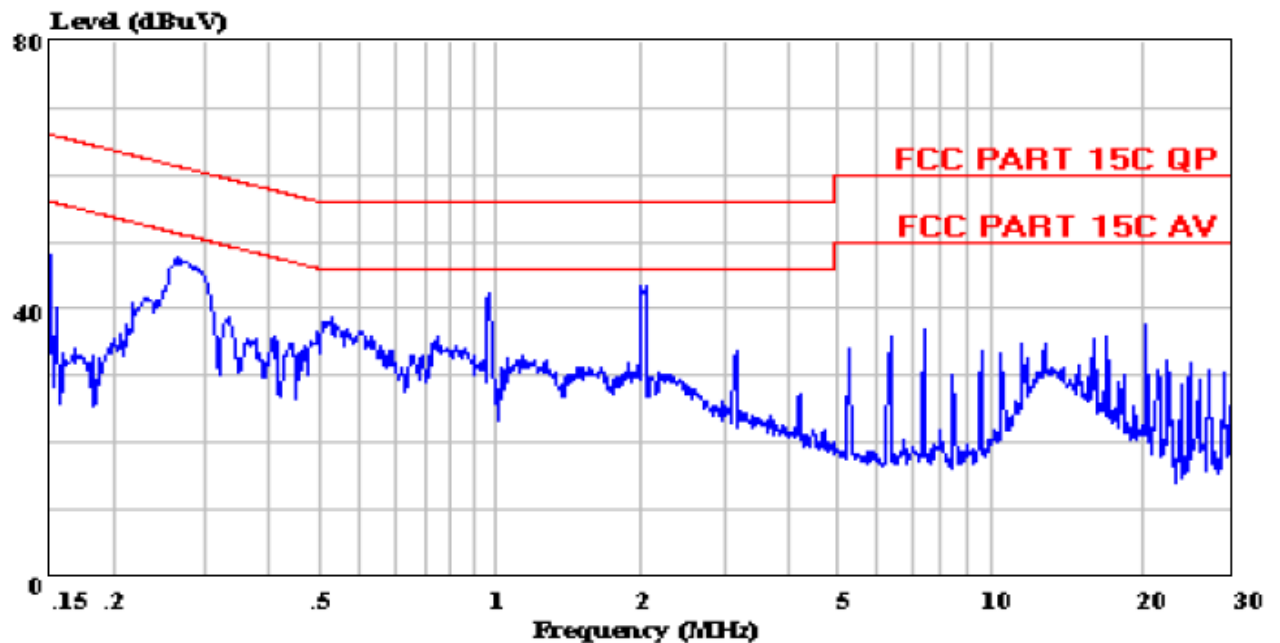


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Data#: 19 File#: D:\Conduction\P\president.EMI

Date: 2008-08-21 Time: 09:16:40



Site : 844 Shielded Room
Condition : FCC PART 15C AV FACTOR LINE
EUT : CYFI Portable Speaker
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
M/N : CYFI 18
Test Engineer: David
Comment : Temp:25'C Humi:56%
Memo : TX CH1 2403MHz



4.2. 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.

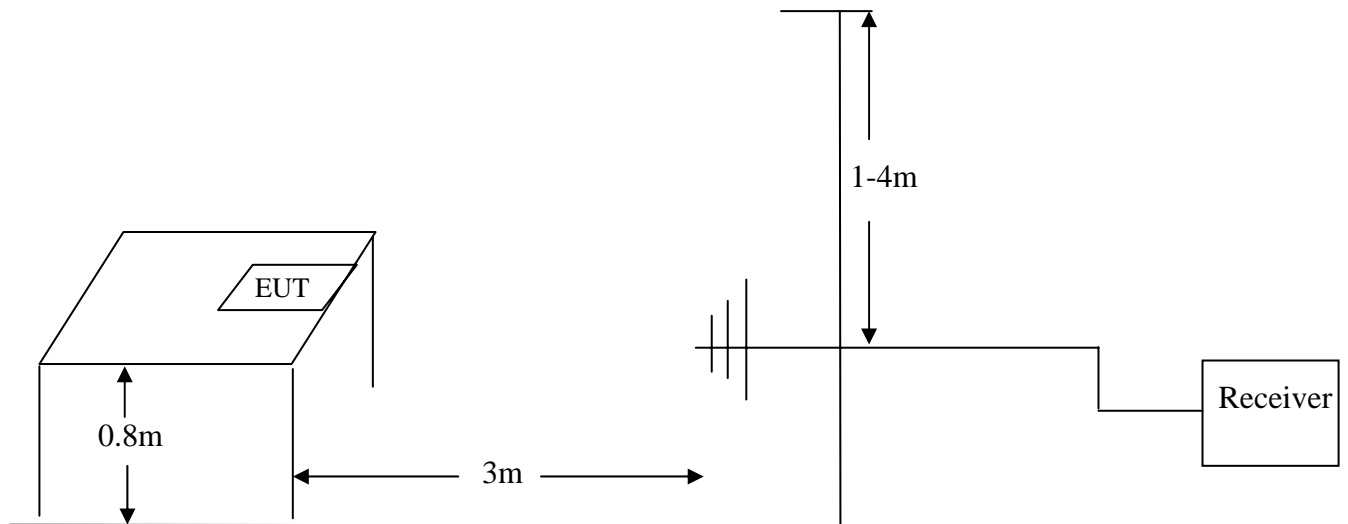
The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

The EUT was tested in Chamber Site.

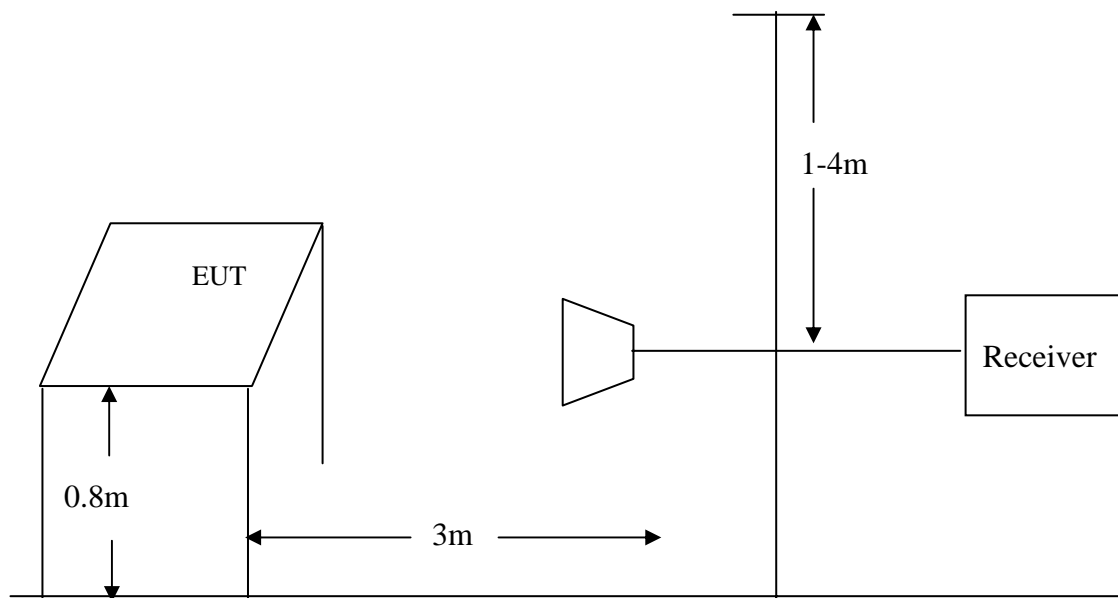


4.6.3. Test Setup Diagram

4.6.3.1. Frequency range: 30MHz-1000MHz



4.6.3.2. Frequency range: 1 GHz -25GHz

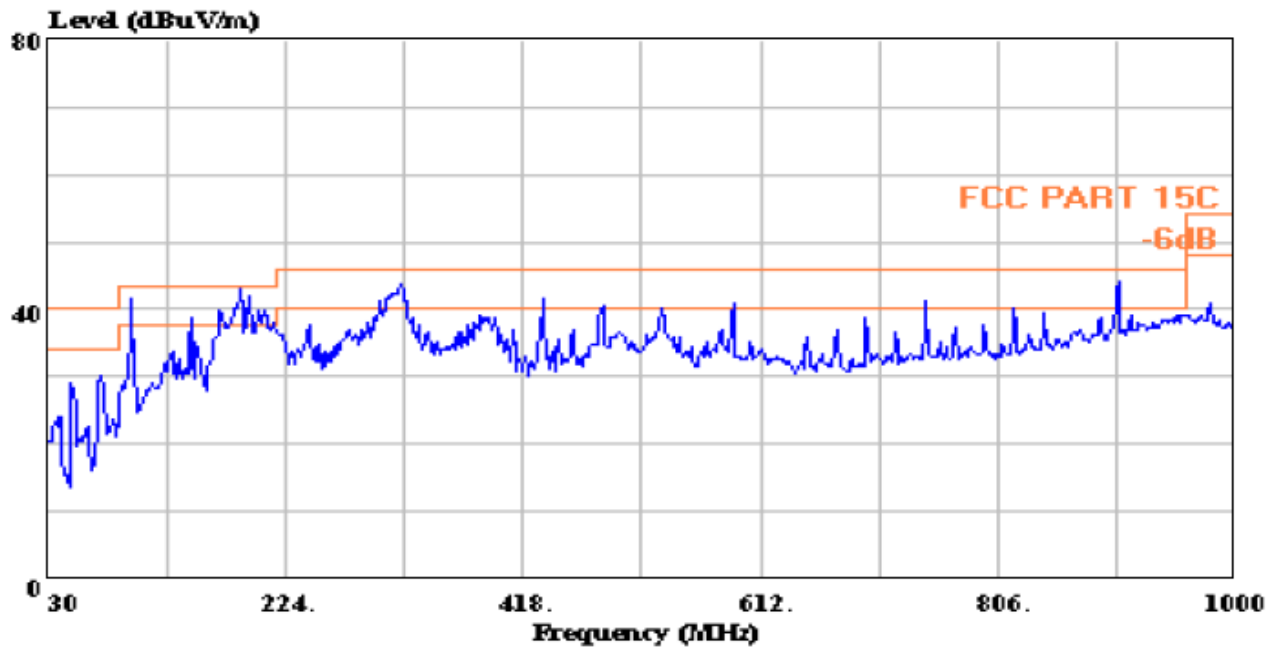


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Data#: 104 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:17:29



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

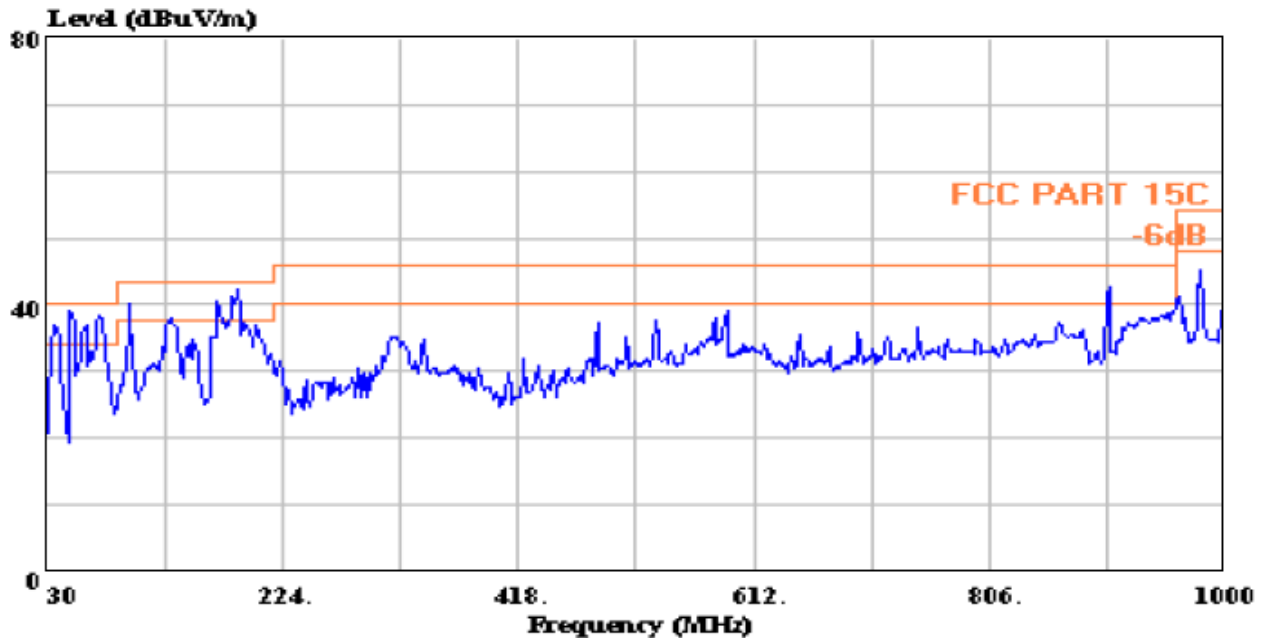


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Data#: 103 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:16:08



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

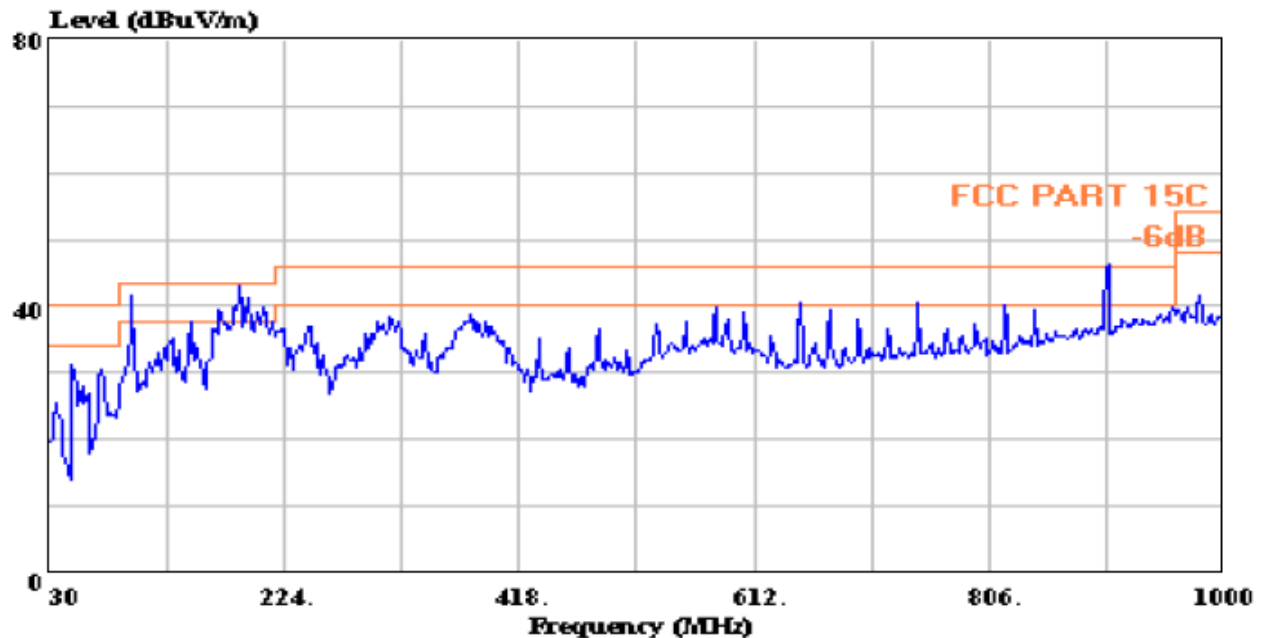


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Data#: 105 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:18:49



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz



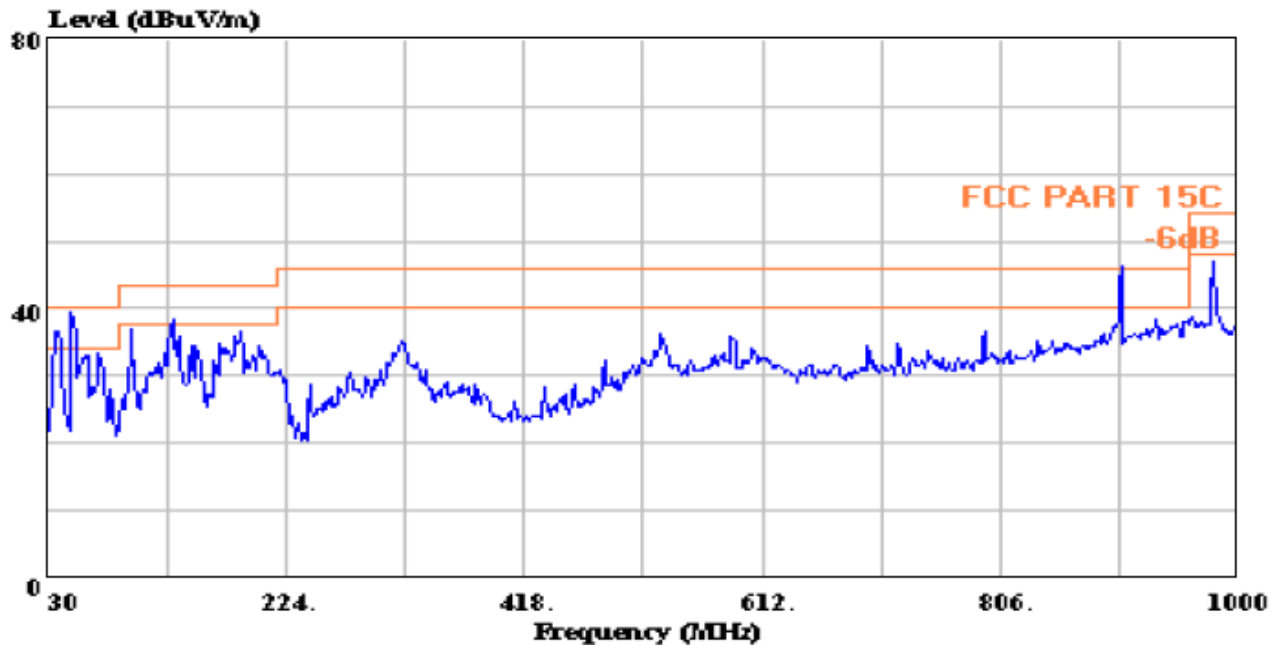
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Data#: 106 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:02



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

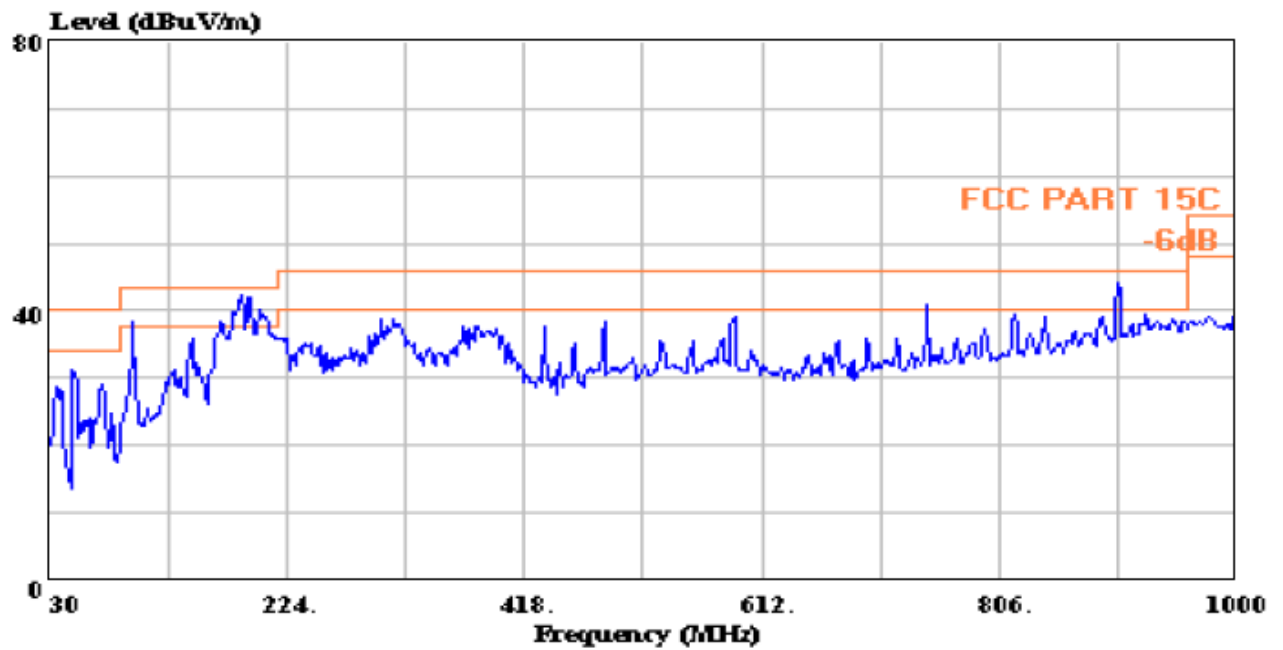


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Data#: 108 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:55



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

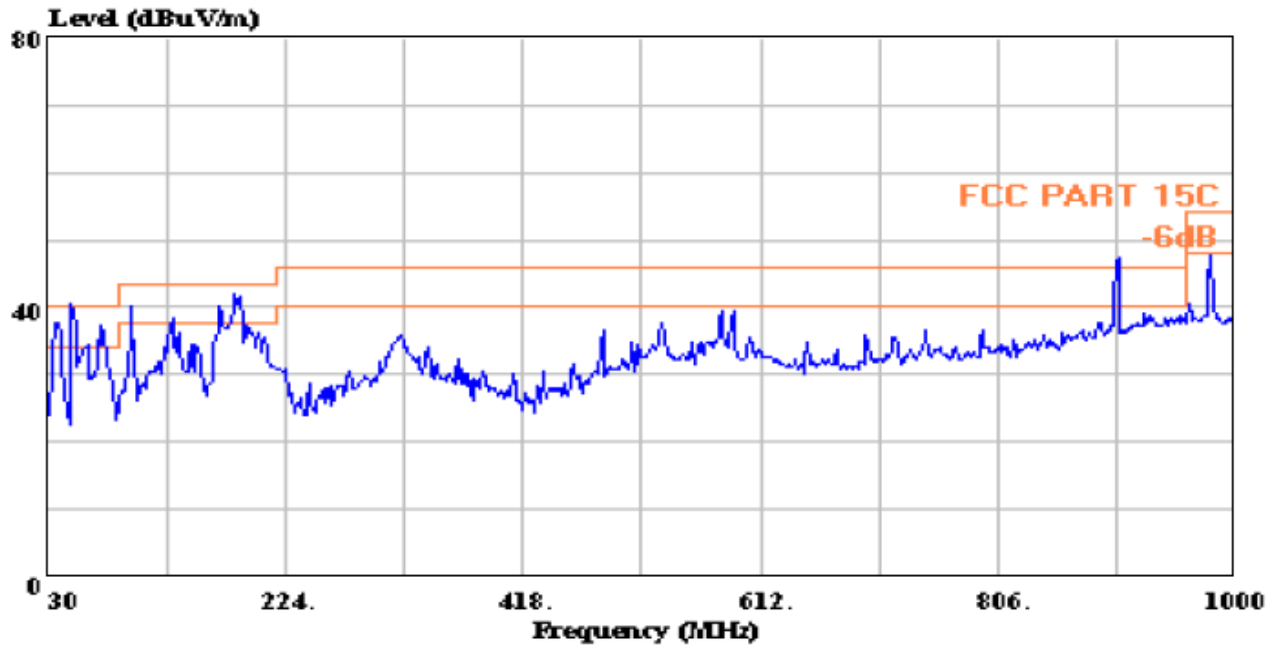


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Data#: 107 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:39



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

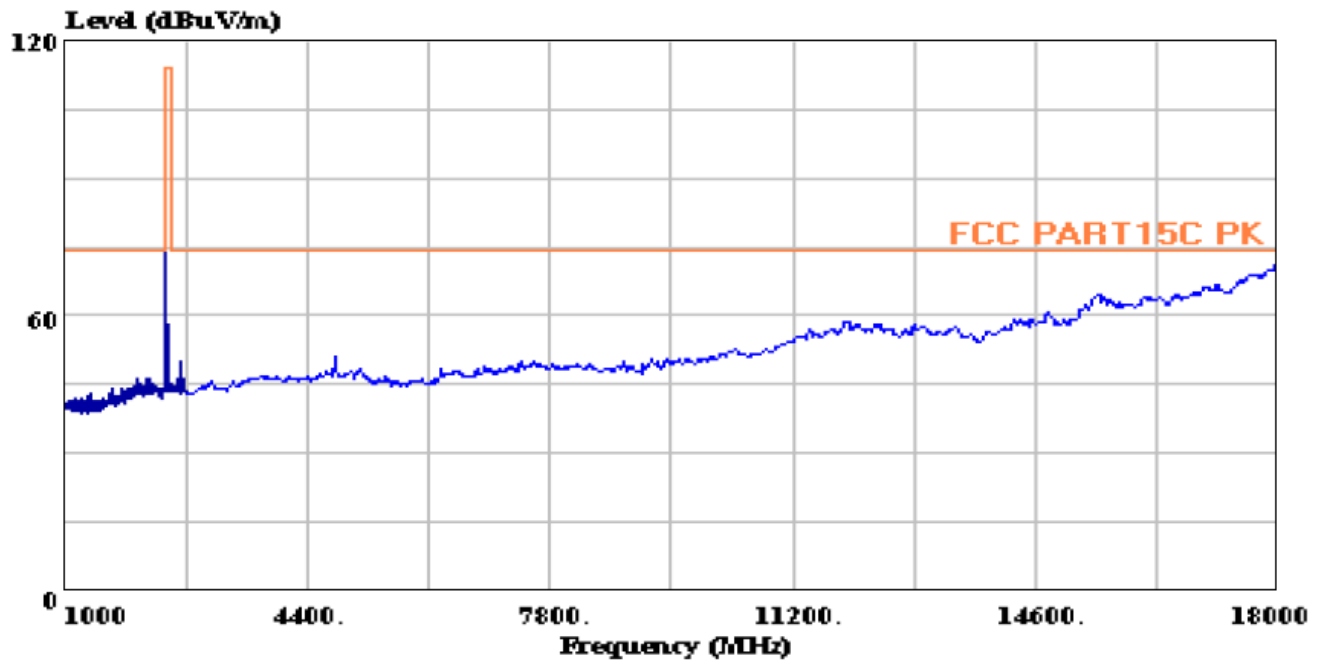


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Data#: 113 File#: \\966pcl\radiation\P\President.EMI Date: 2008-08-22 Time: 04:31:56



Trace: 77

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

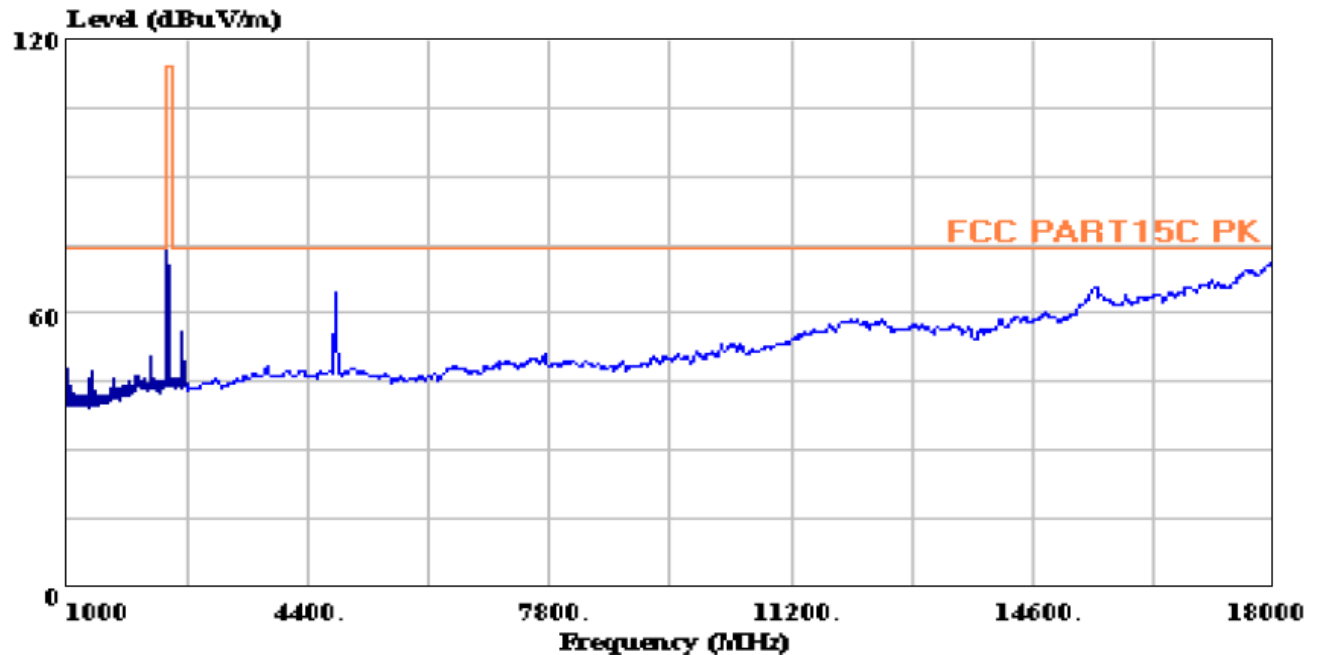


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Data#: 111 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:30:10



Trace: 75

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz

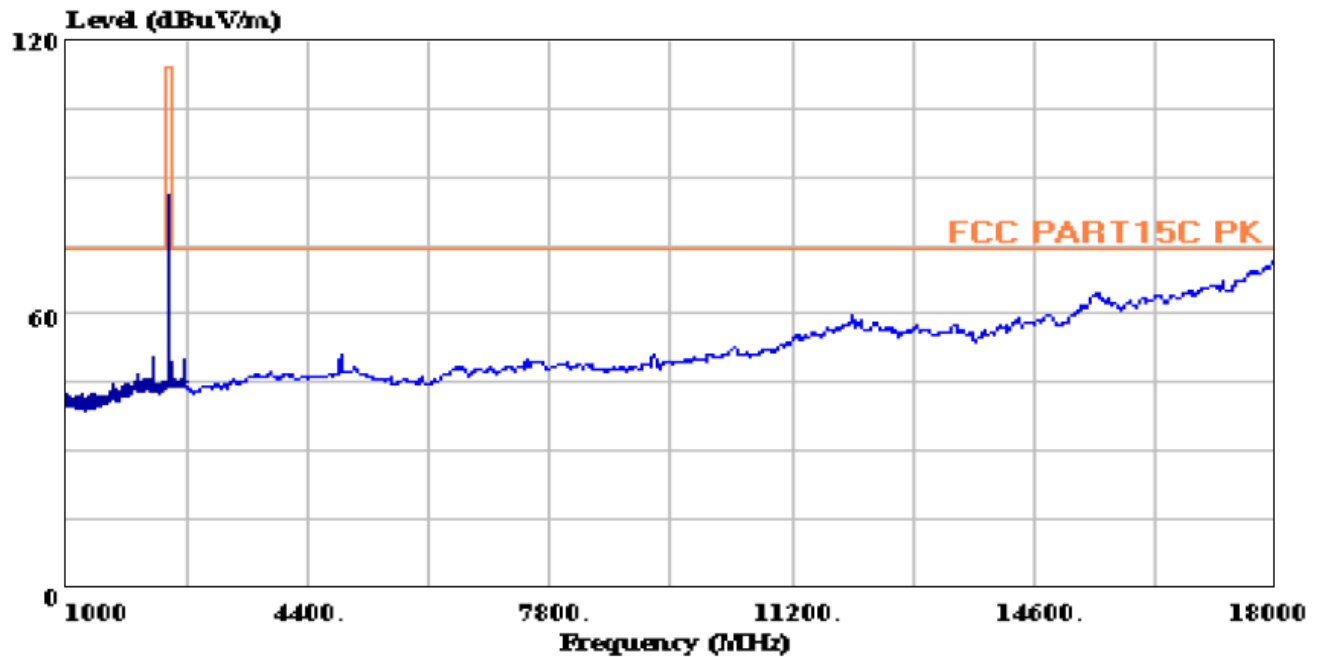


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Data#: 115 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:34:08

**Trace: 79**

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

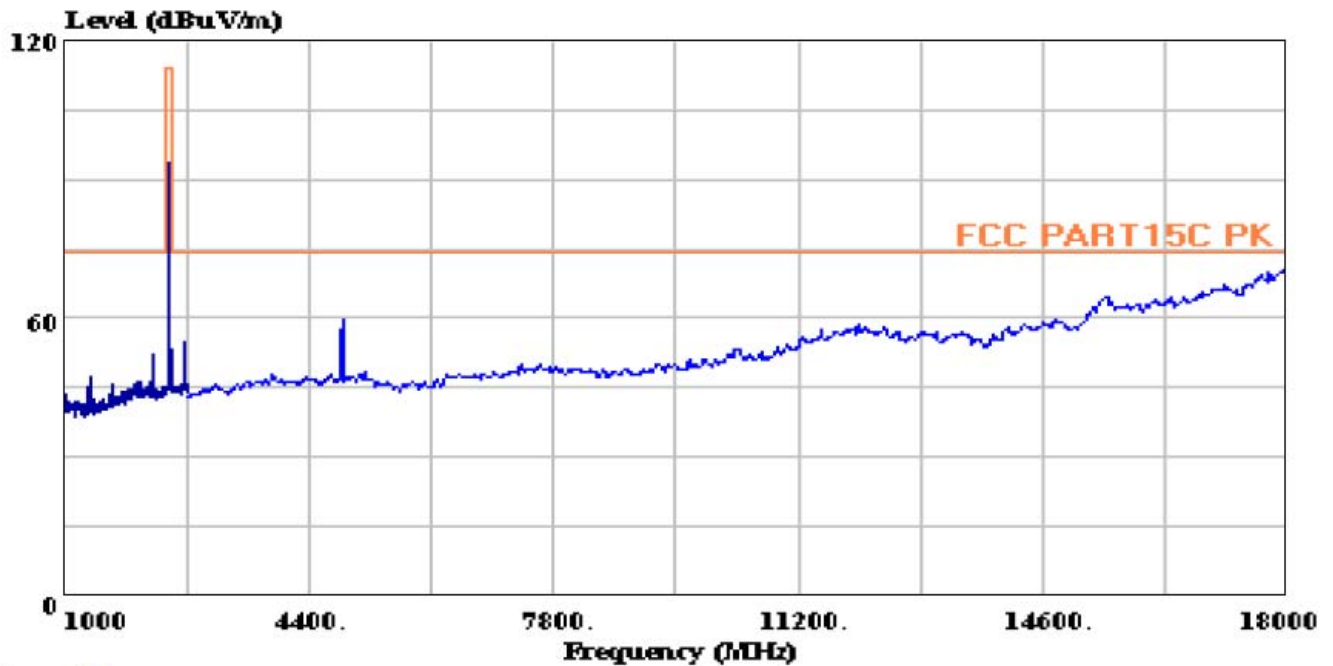


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Data#: 117 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:35:48

**Trace: 81**

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz

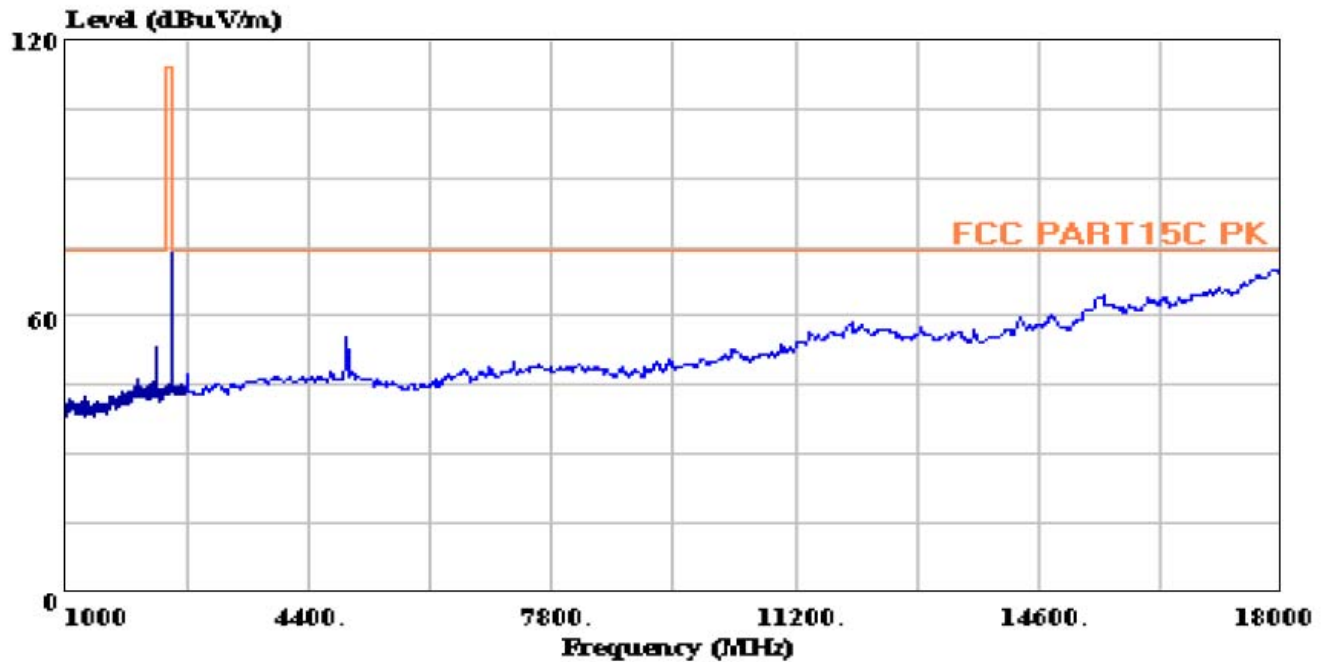


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Data#: 121 File#: \\966pcl\radiation\P\President.EMI Date: 2008-08-22 Time: 04:38:53

**Trace: 85**

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

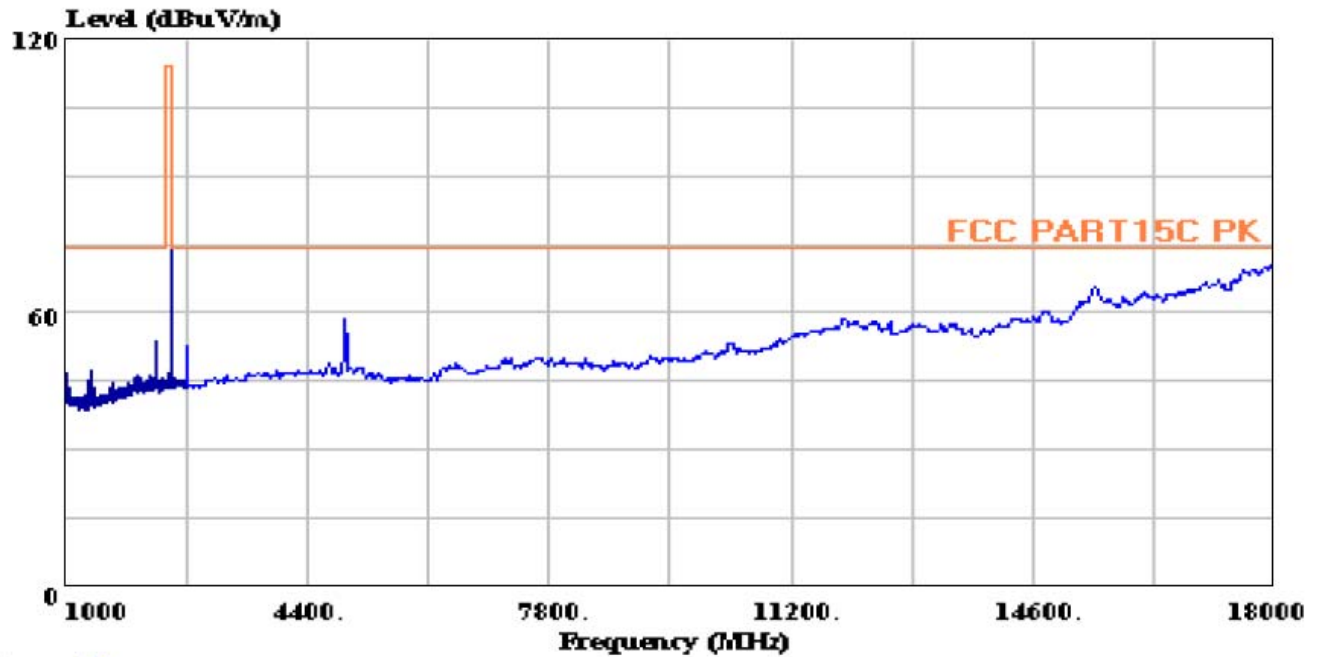


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Data#: 119 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:37:38

**Trace: 83**

Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz

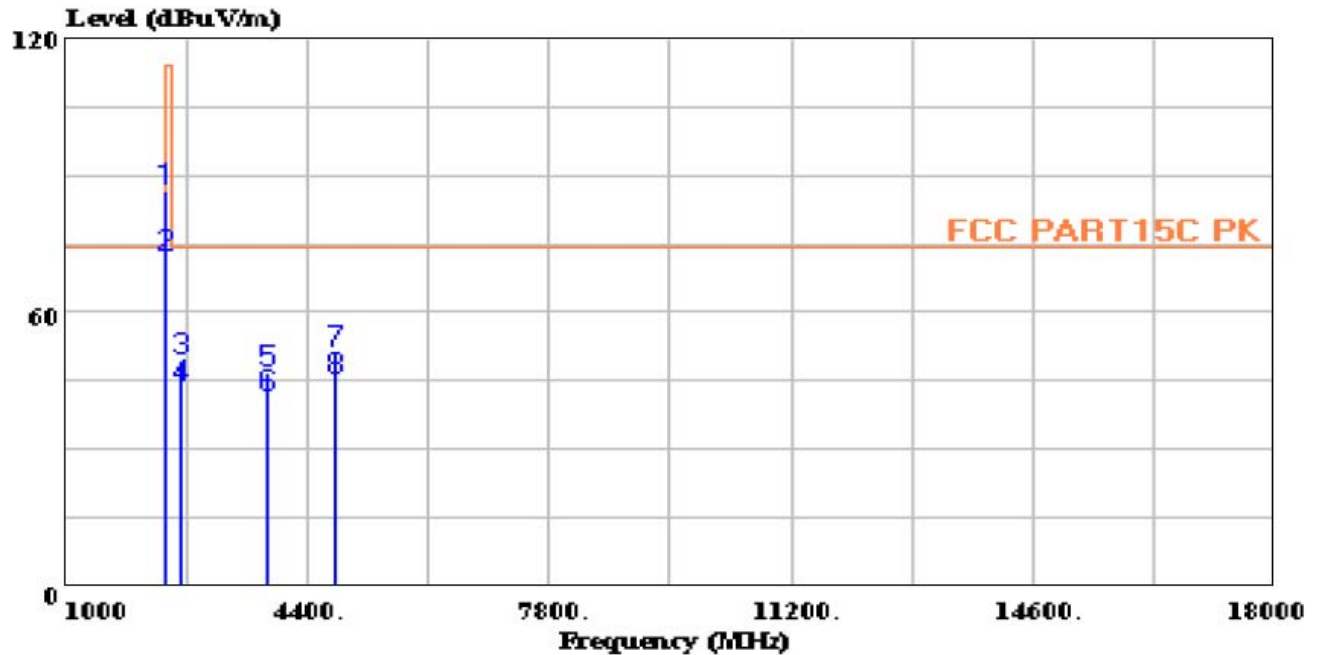


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Data#: 124 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:31:56



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	86.77	-27.21	113.98	53.04	2.23	31.50	Peak
2	2403.000	72.30	-21.68	93.98	38.57	2.23	31.50	Average
3	2624.560	49.55	-24.45	74.00	15.63	2.24	31.68	Peak
4	2624.560	43.36	-10.64	54.00	9.44	2.24	31.68	Average
5	3813.680	46.95	-27.05	74.00	11.39	2.31	33.25	Peak
6	3813.680	41.30	-12.70	54.00	5.74	2.31	33.25	Average
7	4778.840	50.89	-23.11	74.00	13.95	2.37	34.57	Peak
8	4778.840	45.36	-8.64	54.00	8.42	2.37	34.57	Average

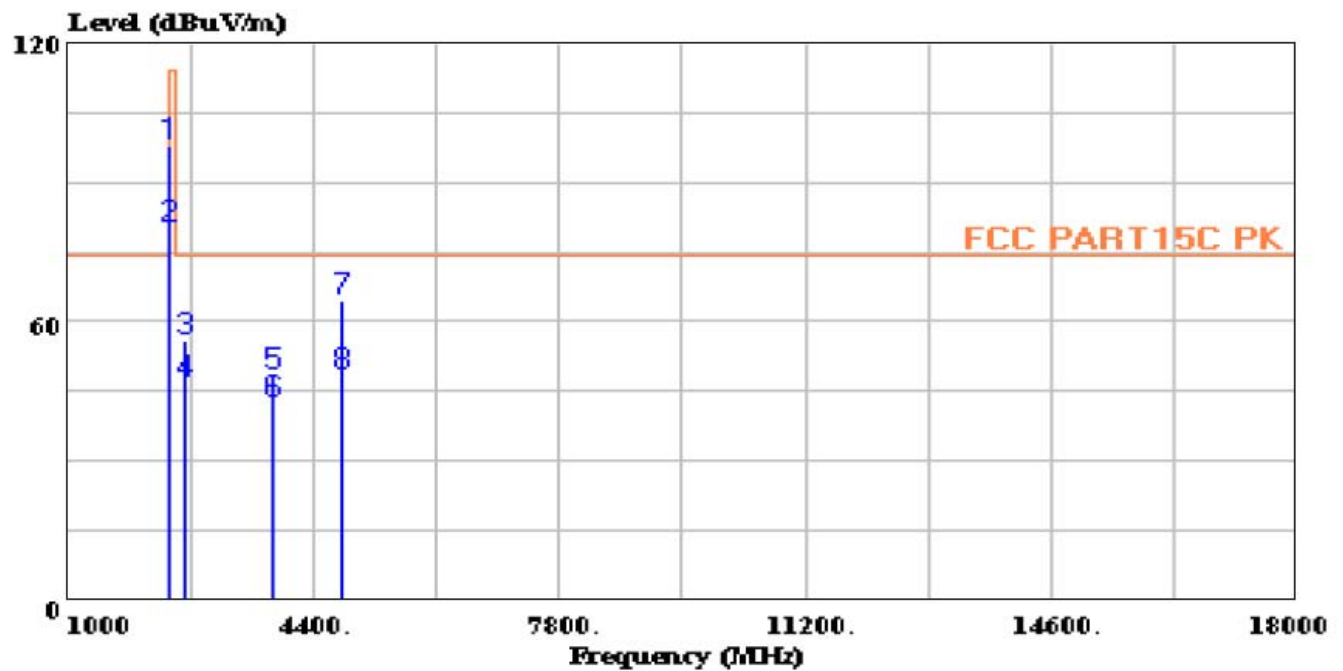


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Data#: 123 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:30:10



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	98.08	-15.90	113.98	64.35	2.23	31.50	Peak
2	2403.000	80.00	-13.98	93.98	46.27	2.23	31.50	Average
3	2624.560	56.22	-17.78	74.00	22.30	2.24	31.68	Peak
4	2624.560	46.81	-7.19	54.00	12.89	2.24	31.68	Average
5	3813.680	48.17	-25.83	74.00	12.61	2.31	33.25	Peak
6	3813.680	42.61	-11.39	54.00	7.05	2.31	33.25	Average
7	4778.840	64.56	-9.44	74.00	27.62	2.37	34.57	Peak
8	4778.840	48.67	-5.33	54.00	11.73	2.37	34.57	Average

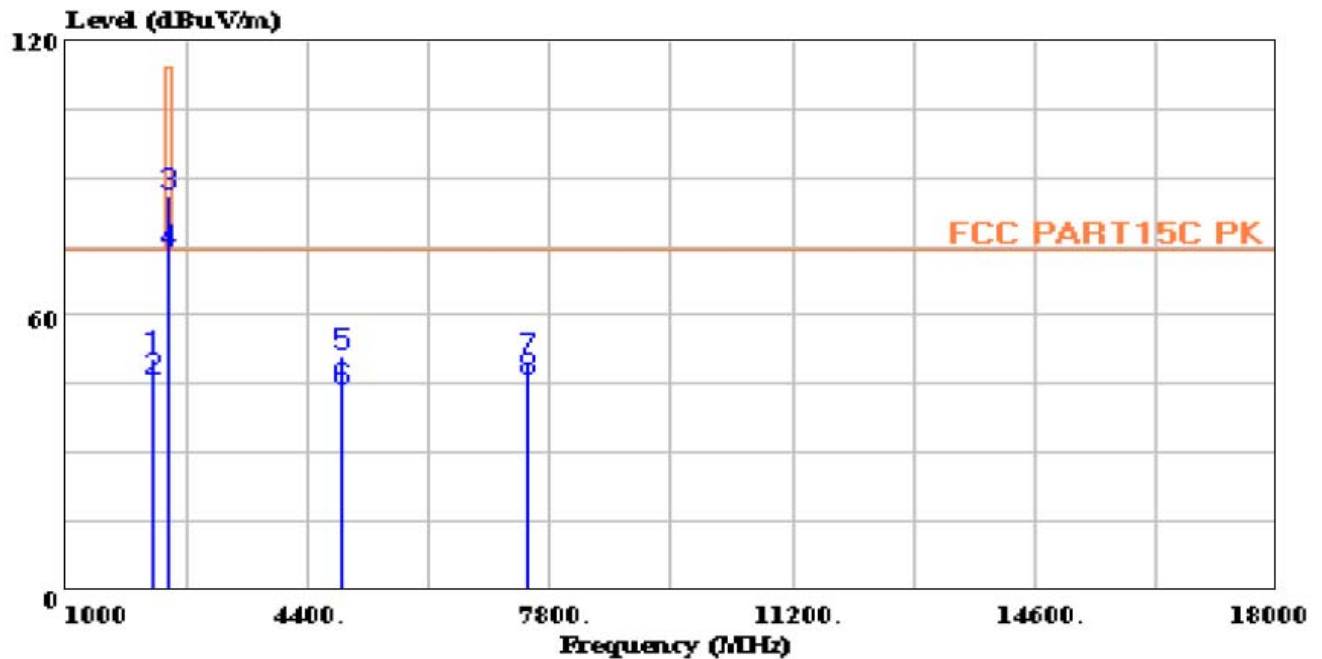


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Data#: 125 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:34:08



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2224.720	50.77	-23.23	74.00	17.22	2.22	31.33	Peak
2	2224.720	45.69	-8.31	54.00	12.16	2.21	31.32	Average
3	2443.000	85.90	-28.08	113.98	52.13	2.23	31.54	Peak
4	2443.000	73.68	-20.30	93.98	39.91	2.23	31.54	Average
5	4855.440	51.23	-22.77	74.00	14.24	2.38	34.61	Peak
6	4855.440	43.35	-10.65	54.00	6.36	2.38	34.61	Average
7	7459.840	50.29	-23.71	74.00	10.94	2.54	36.81	Peak
8	7459.840	45.70	-8.30	54.00	6.35	2.54	36.81	Average

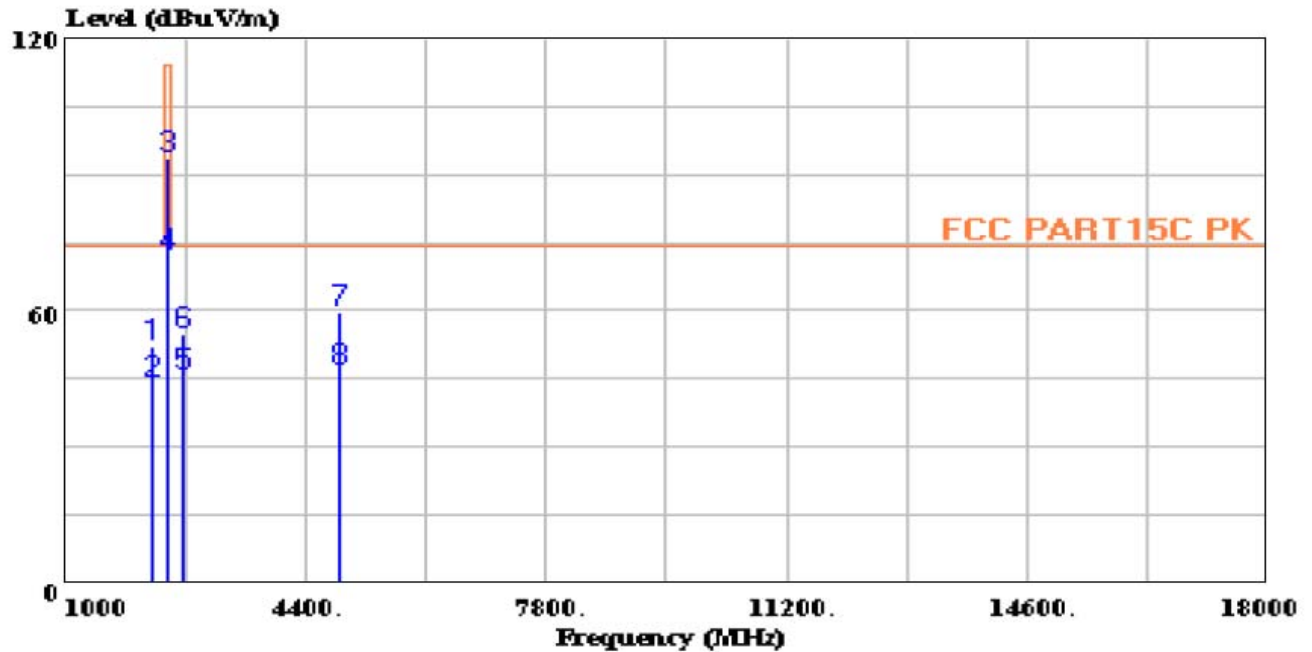


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Data#: 126 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:35:48



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2224.720	52.12	-21.88	74.00	18.59	2.21	31.32	Peak
2	2224.720	43.98	-10.02	54.00	10.45	2.21	31.32	Average
3	2443.000	93.52	-20.46	113.98	59.75	2.23	31.54	Peak
4	2443.000	72.36	-21.62	93.98	38.59	2.23	31.54	Average
5	2669.920	45.67	-8.33	54.00	11.73	2.24	31.70	Average
6	2669.920	55.09	-18.91	74.00	21.15	2.24	31.70	Peak
7	4855.440	59.66	-14.34	74.00	22.67	2.38	34.61	Peak
8	4855.440	46.98	-7.02	54.00	9.99	2.38	34.61	Average

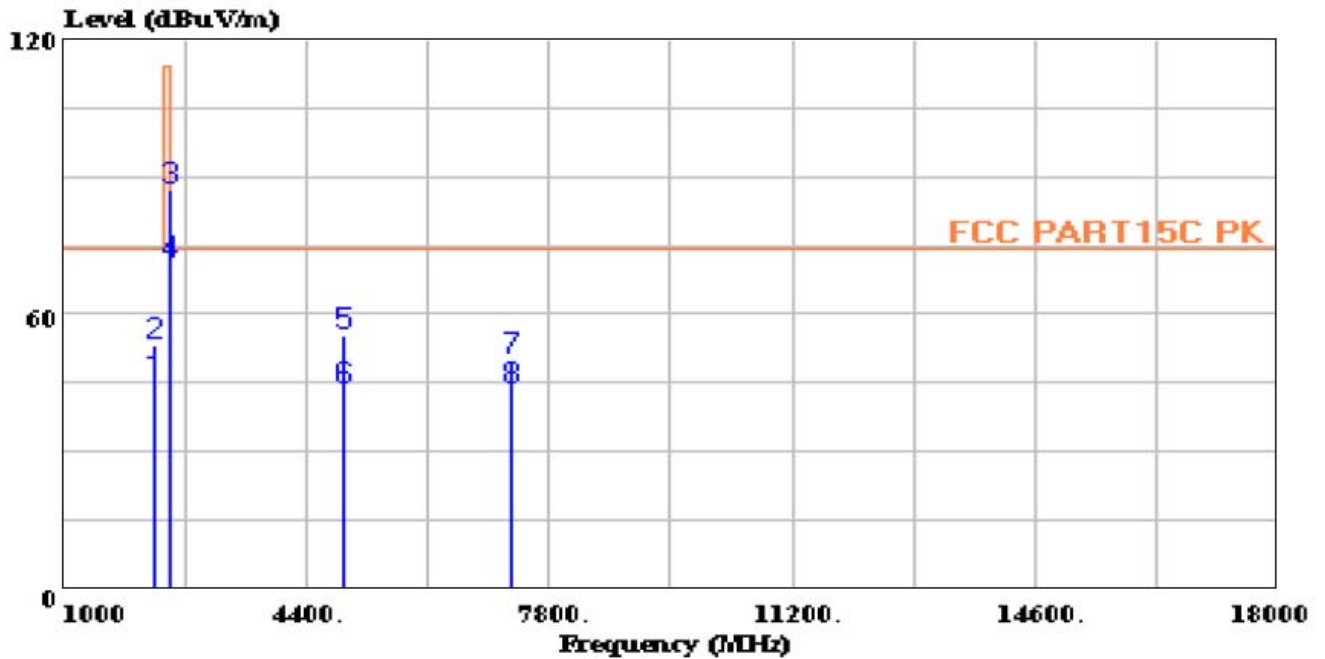


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Http://www.nasco.cn

Data#: 128 File#: \\966pcl\radiation\P\President.EMI Date: 2008-08-22 Time: 04:38:53



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2258.320	45.30	-8.70	54.00	11.73	2.22	31.35	Average
2	2258.320	53.52	-20.48	74.00	19.95	2.22	31.35	Peak
3	2478.000	87.05	-26.93	113.98	53.24	2.23	31.58	Peak
4	2478.000	71.29	-22.69	93.98	37.48	2.23	31.58	Average
5	4932.040	55.25	-18.75	74.00	18.21	2.38	34.66	Peak
6	4932.040	43.83	-10.17	54.00	6.79	2.38	34.66	Average
7	7260.080	49.81	-24.19	74.00	10.43	2.53	36.85	Peak
8	7260.680	43.65	-10.35	54.00	4.27	2.53	36.85	Average

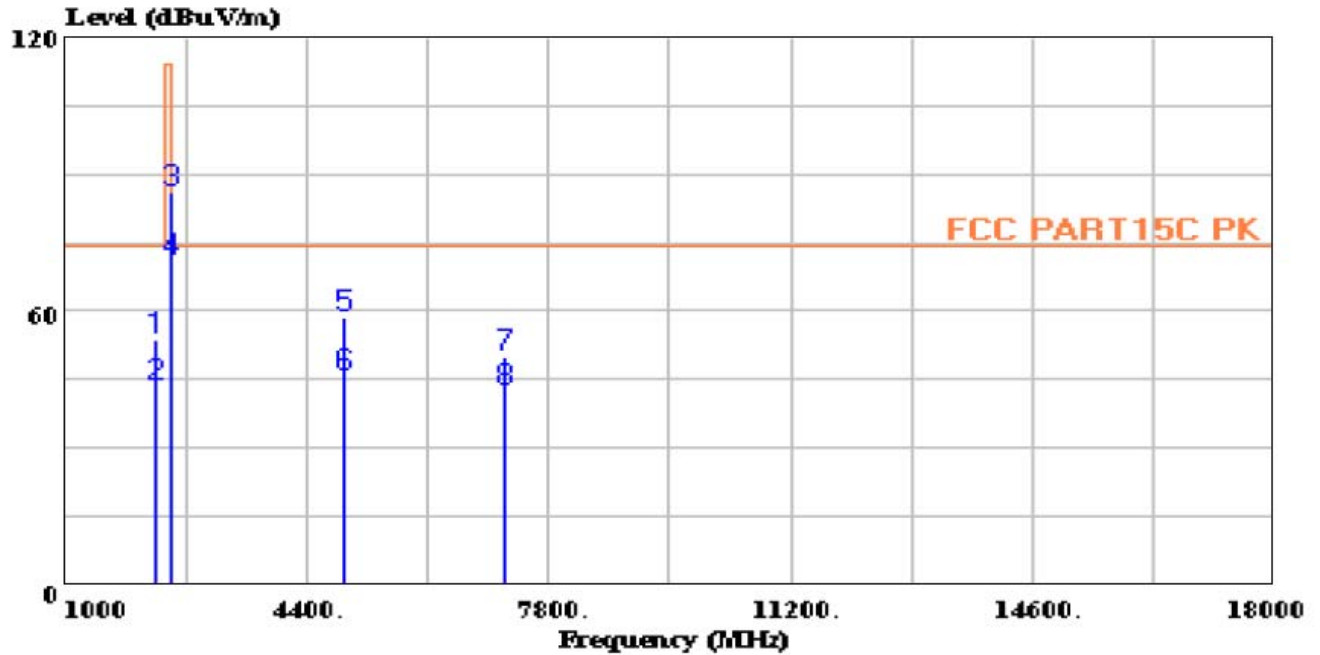


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Data#: 127 File#: \\966pc1\radiation\P\President.EMI Date: 2008-08-22 Time: 04:37:38



Site : 966 Chamber
Condition : FCC PART15C PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2254.960	53.88	-20.12	74.00	20.31	2.22	31.35	Peak
2	2254.960	43.36	-10.64	54.00	9.79	2.22	31.35	Average
3	2478.000	86.15	-27.83	113.98	52.34	2.23	31.58	Peak
4	2478.000	71.01	-22.97	93.98	37.20	2.23	31.58	Average
5	4932.040	58.39	-15.61	74.00	21.35	2.38	34.66	Peak
6	4932.040	45.61	-8.39	54.00	8.57	2.38	34.66	Average
7	7153.440	50.08	-23.92	74.00	10.69	2.52	36.87	Peak
8	7153.440	42.36	-11.64	54.00	2.97	2.52	36.87	Average



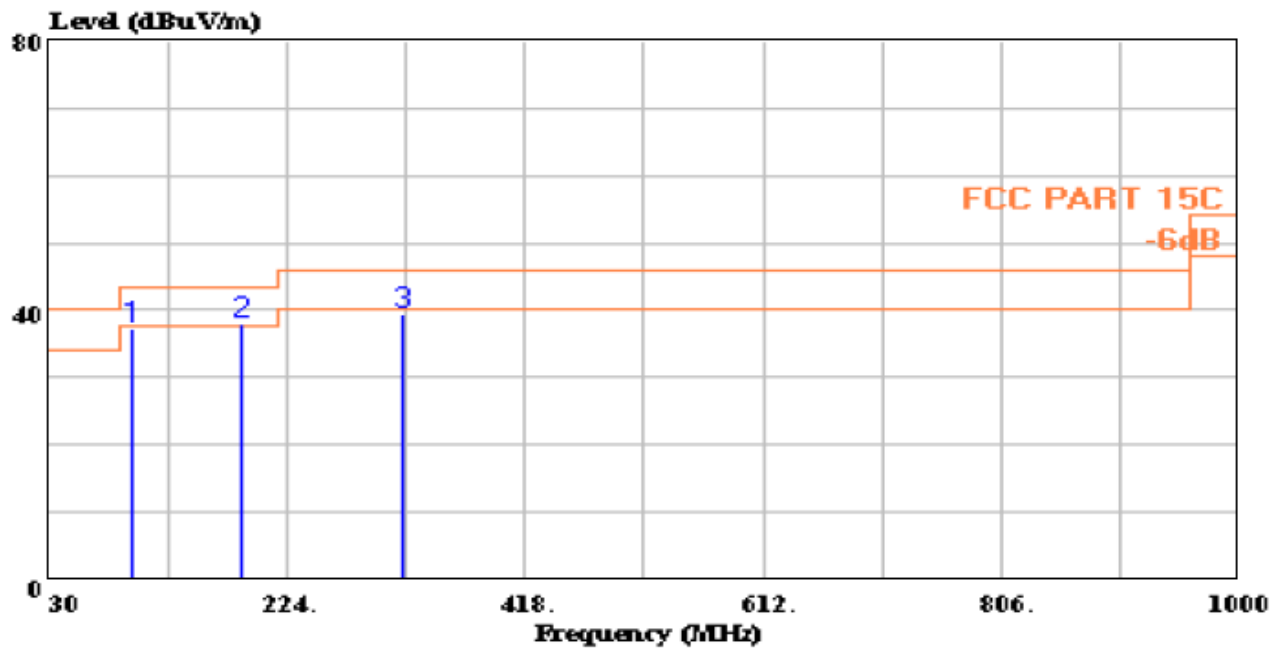
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www.nscn.cn

Data#: 130 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:17:29



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz
: Ant high:2.5m; Table angle:170'

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	37.31	-6.19	43.50	23.25	1.51	12.55	QP
2	187.140	38.15	-5.35	43.50	26.32	2.17	9.66	QP
3	318.090	39.31	-6.69	46.00	23.87	2.99	12.45	QP



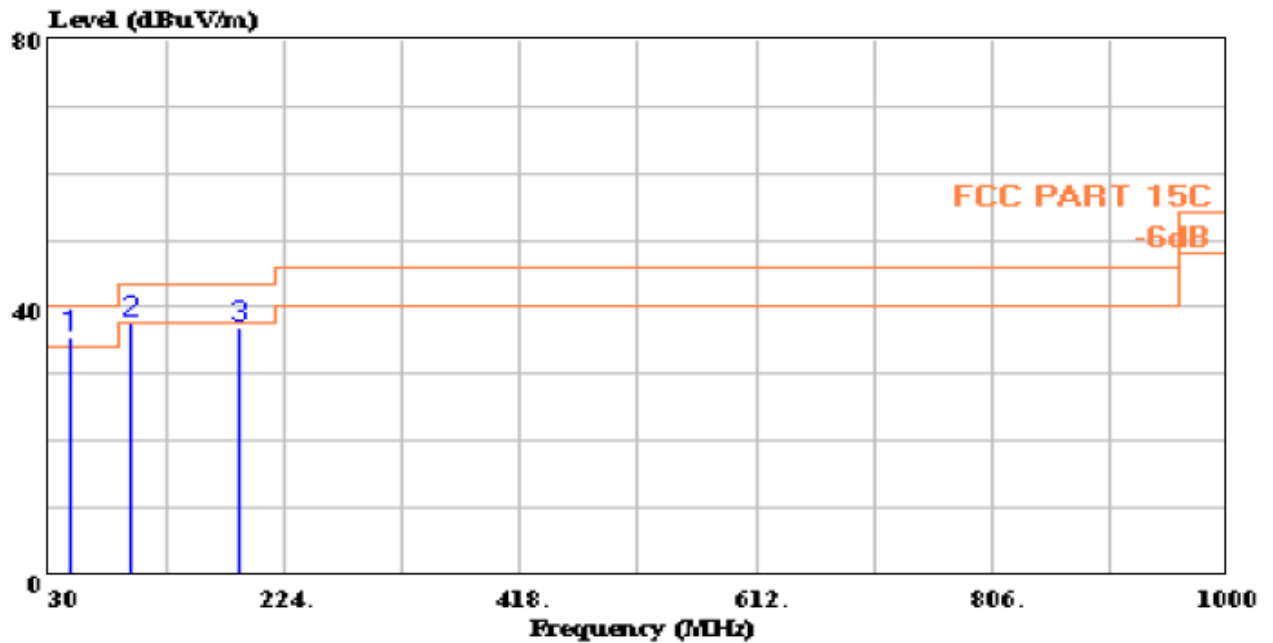
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Data#: 129 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:16:08



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH1 2403MHz
: Ant high:1.2m; Table angle:56'

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 !	48.430	35.67	-4.33	40.00	27.73	0.98	6.96	QP
2 !	96.930	37.61	-5.89	43.50	23.55	1.51	12.55	QP
3	187.140	37.06	-6.44	43.50	25.23	2.17	9.66	QP



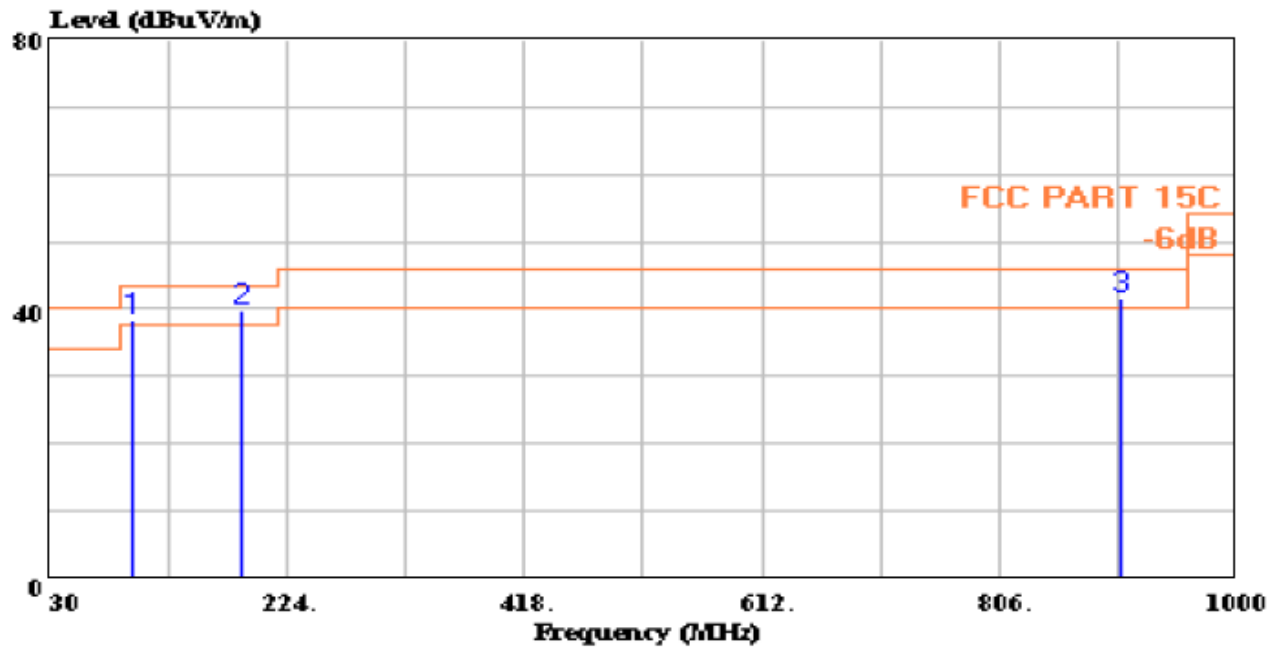
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Data#: 131 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:18:49



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz
: Ant high:2.3m; Table angle:173'

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 !	96.930	38.51	-4.99	43.50	24.45	1.51	12.55	QP
2 !	187.140	39.67	-3.83	43.50	27.84	2.17	9.66	QP
3 !	904.940	41.67	-4.33	46.00	9.99	6.39	25.29	QP



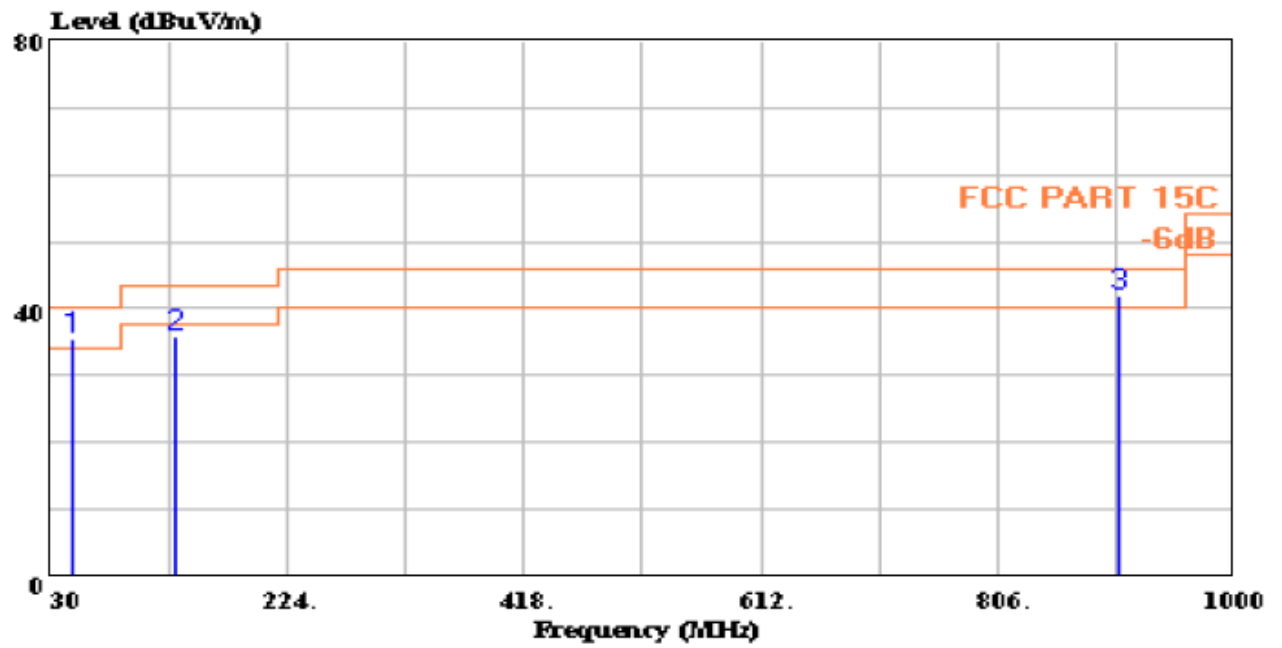
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Data#: 132 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:02



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH8 2443MHz
: Ant high:1.1m; Table angle:48'

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	35.46	-4.54	40.00	27.52	0.98	6.96	QP
2	130.880	35.80	-7.70	43.50	23.16	1.75	10.89	QP
3 !	904.940	41.87	-4.13	46.00	10.19	6.39	25.29	QP



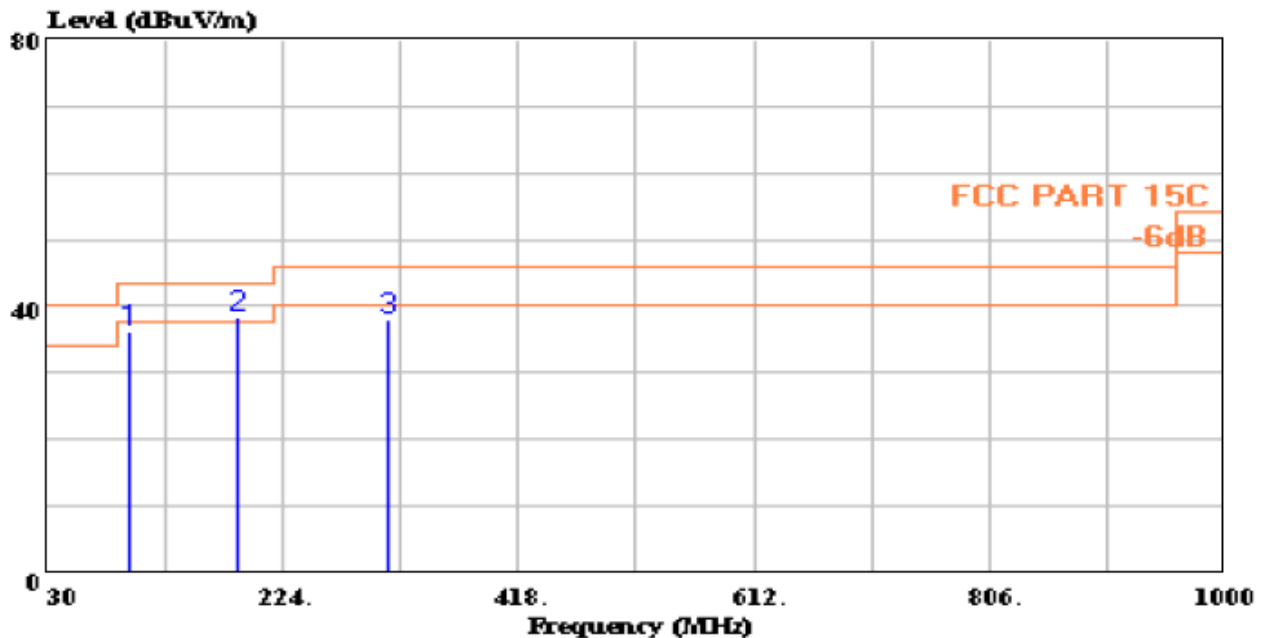
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Data#: 134 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:55



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz
: Ant high:2.6m; Table angle:181'

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	96.930	36.35	-7.15	43.50	22.29	1.51	12.55	QP
2 !	187.140	38.34	-5.16	43.50	26.51	2.17	9.66	QP
3	310.330	37.98	-8.02	46.00	23.23	2.88	11.87	QP



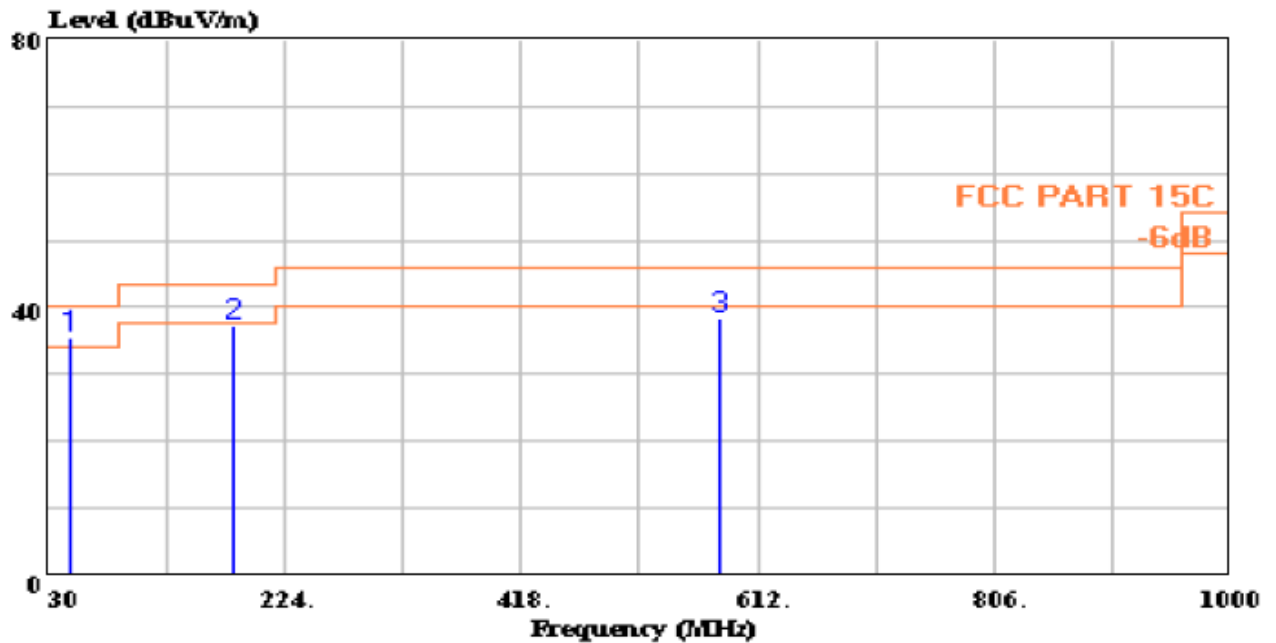
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Data#: 133 File#: D:\Radiation\P\President.EMI

Date: 2008-08-22 Time: 03:19:39



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
Test Engineer: David
Comment : Temp:25.3'C Humi:55%
Memo : TX CH16 2478MHz
: Ant high:1.0m; Table angle:72'

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	35.64	-4.36	40.00	27.70	0.98	6.96	QP
2	182.290	37.37	-6.13	43.50	25.43	2.11	9.83	QP
3	579.990	38.50	-7.50	46.00	12.13	4.24	22.13	QP



4.3. 20dB Occupied Bandwidth

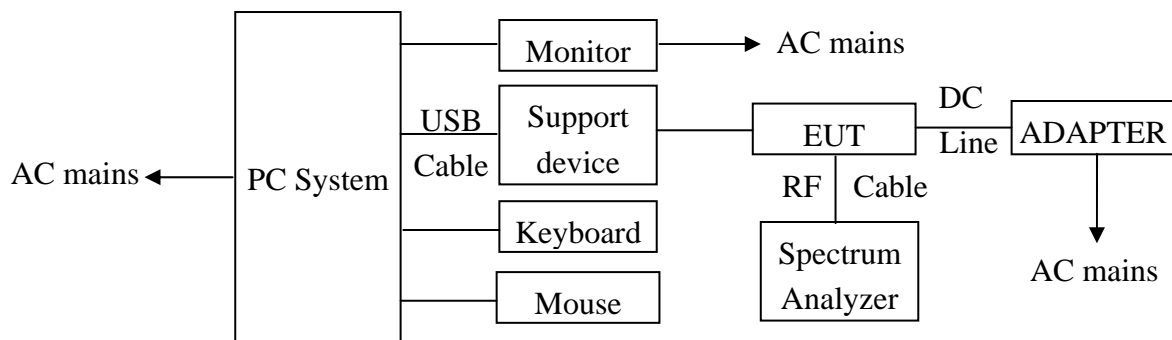
4.2.1. Test limits

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=30kHz,VBW=100kHz.
4. Set SA trace max hold, then view.

4.2.3. Test setup diagram



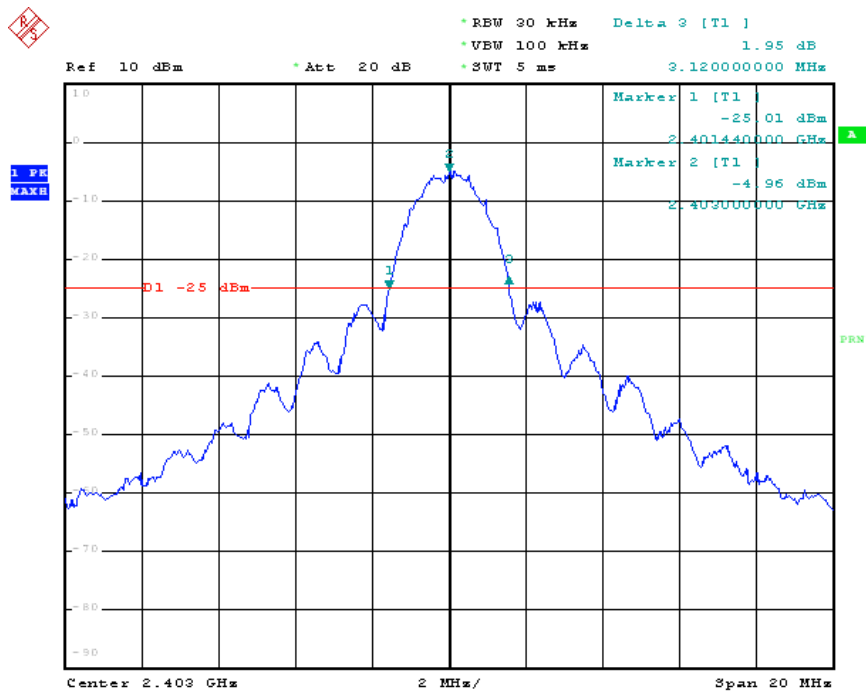
4.2.4. Test result

Pass

Test Channel	Frequency MHz	20dB Occupied bandwidth MHz
CH1	2403	3.12
CH8	2443	3.16
CH16	2478	3.24

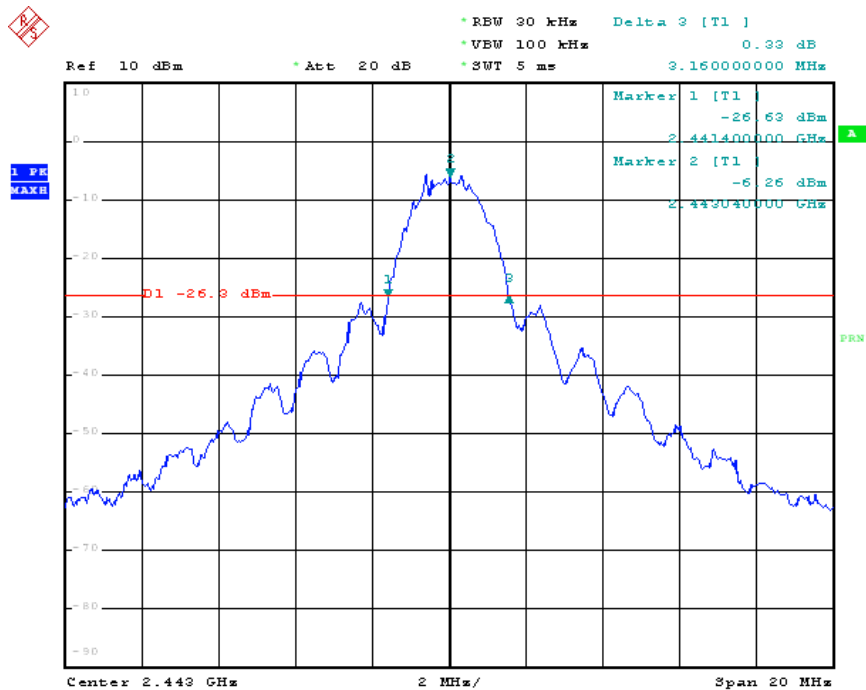
The test plots as following:

Test CH1:2403MHz



Date: 21.AUG.2008 21:17:43

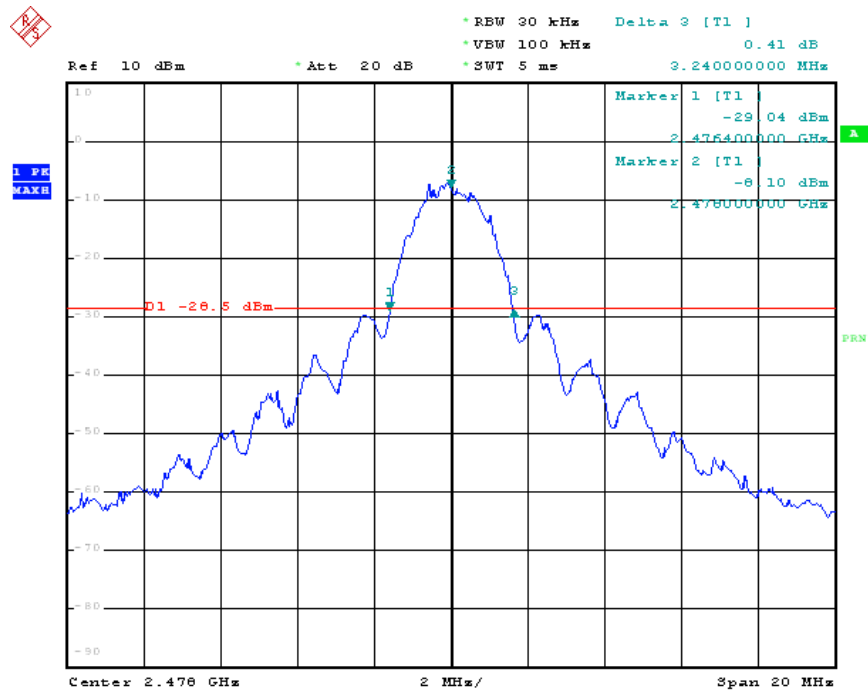
Test CH8:2443MHz



Date: 21.AUG.2008 21:19:20



Test CH16:2478MHz



Date: 21.AUG.2008 21:21:11



4.4. 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.

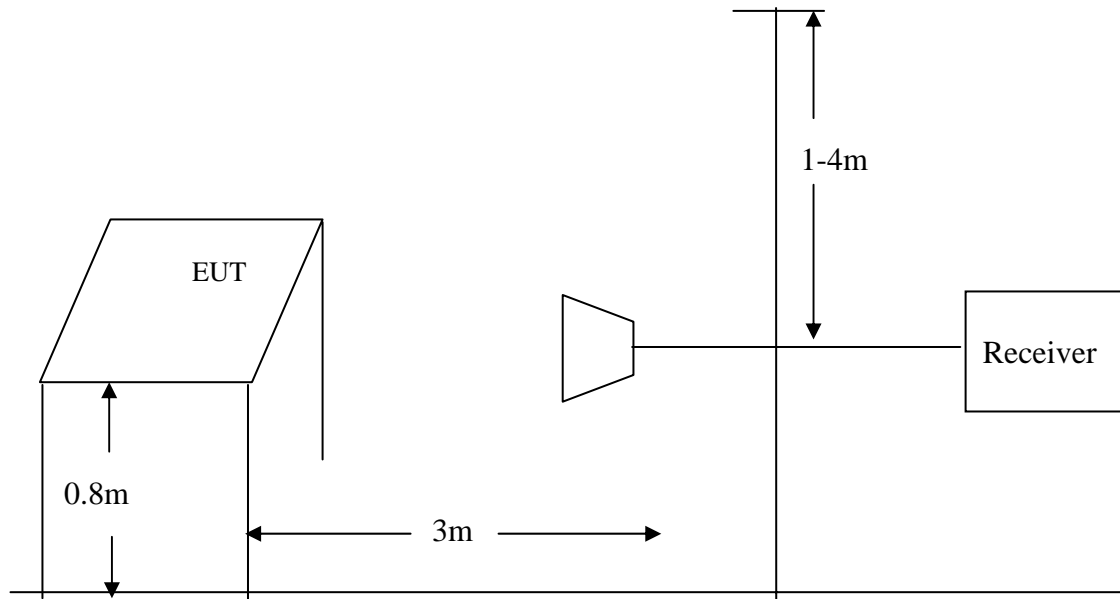
The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

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.

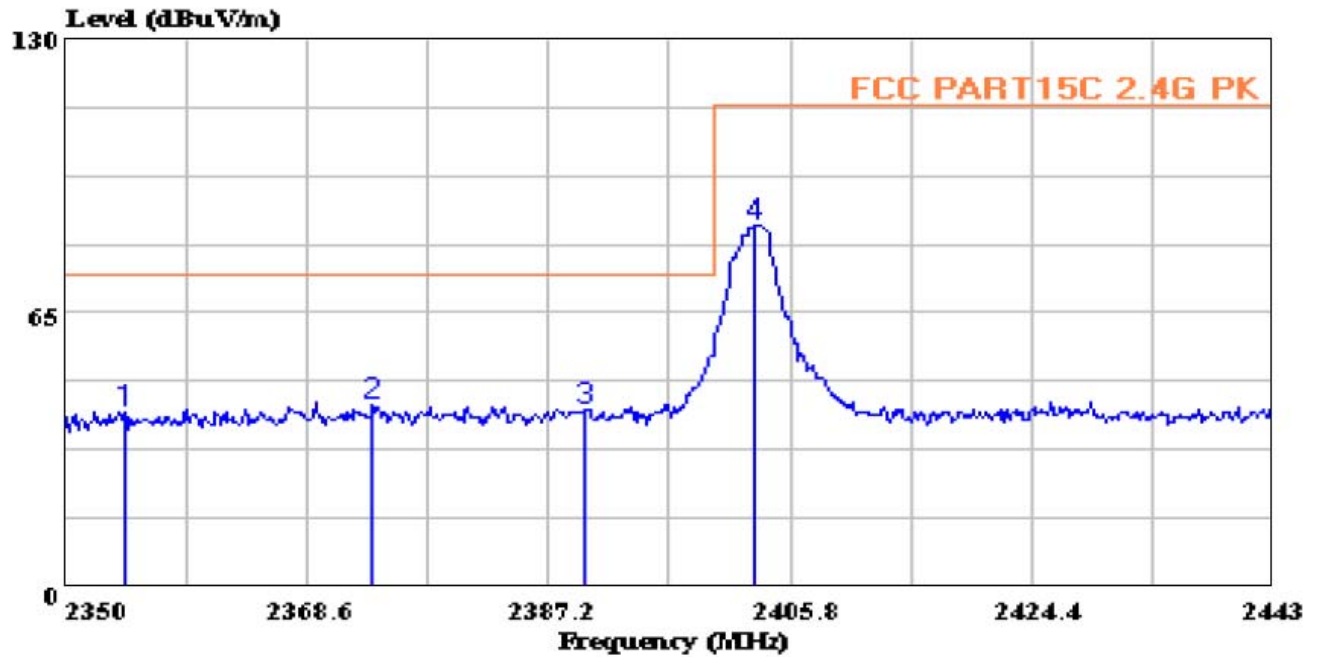
The test plots as following:

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Http://www.nasco.cn

Data#: 192 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:18:06



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2354.557	41.23	-32.77	74.00	7.55	2.22	31.46	Peak
2	2373.622	43.09	-30.91	74.00	9.39	2.22	31.48	Peak
3	2390.000	42.13	-31.87	74.00	8.40	2.23	31.50	Peak
4	2403.000	85.80	-28.18	113.98	52.06	2.23	31.51	Peak

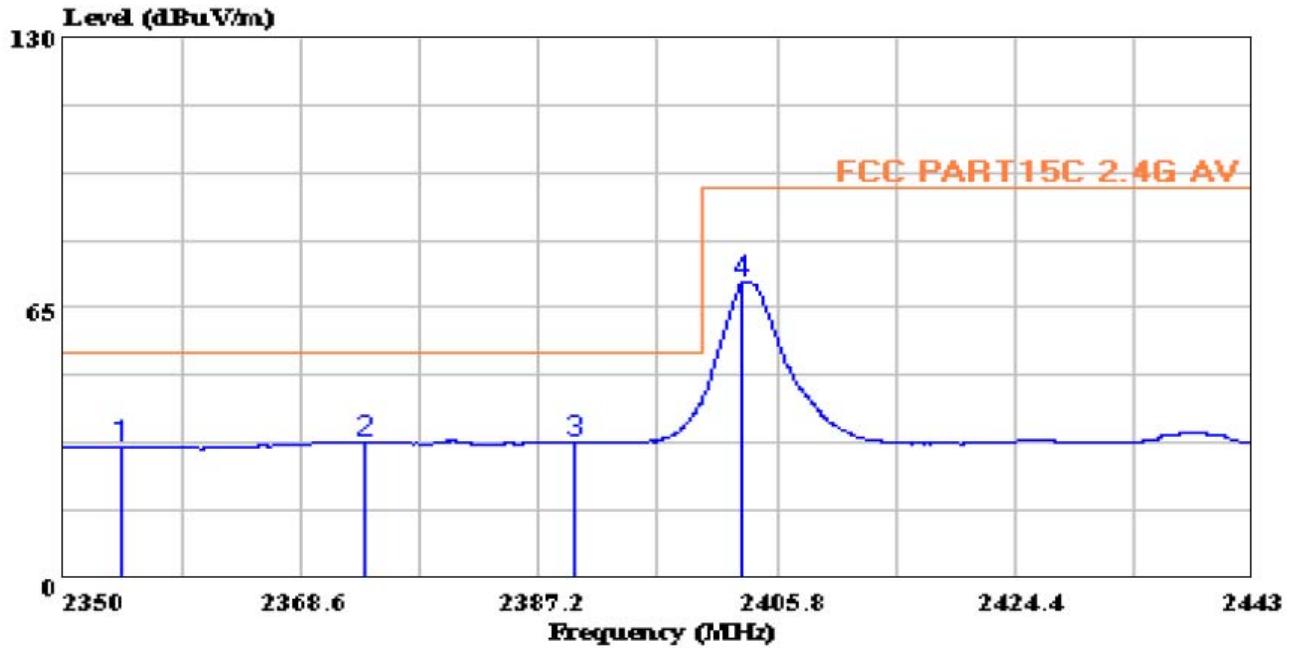


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Data#: 193 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:19:06



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2354.557	31.49	-22.51	54.00	-2.19	2.22	31.46	Average
2	2373.622	32.66	-21.34	54.00	-1.04	2.22	31.48	Average
3	2390.000	32.78	-21.22	54.00	-0.95	2.23	31.50	Average
4	2403.000	71.39	-22.59	93.98	37.65	2.23	31.51	Average

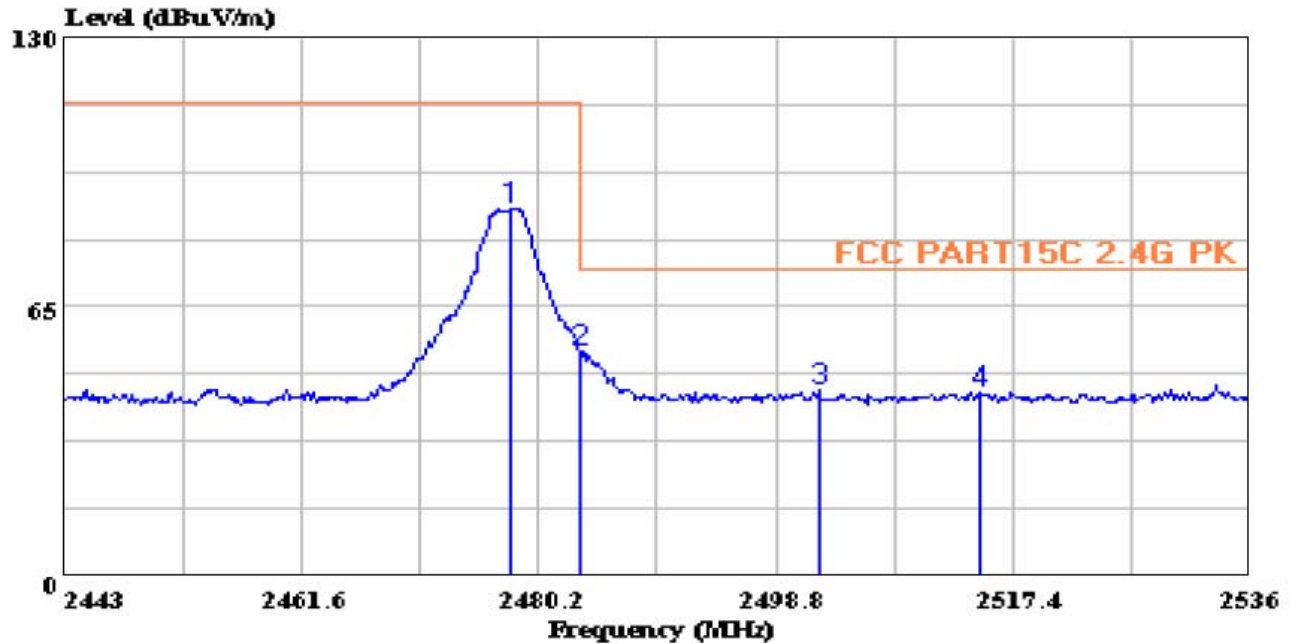


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Data#: 190 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:11:16



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	88.48	-25.50	113.98	54.66	2.23	31.59	Peak
2	2483.500	54.18	-19.82	74.00	20.36	2.23	31.59	Peak
3	2502.241	44.63	-29.37	74.00	10.79	2.23	31.61	Peak
4	2514.796	44.23	-29.77	74.00	10.39	2.23	31.61	Peak

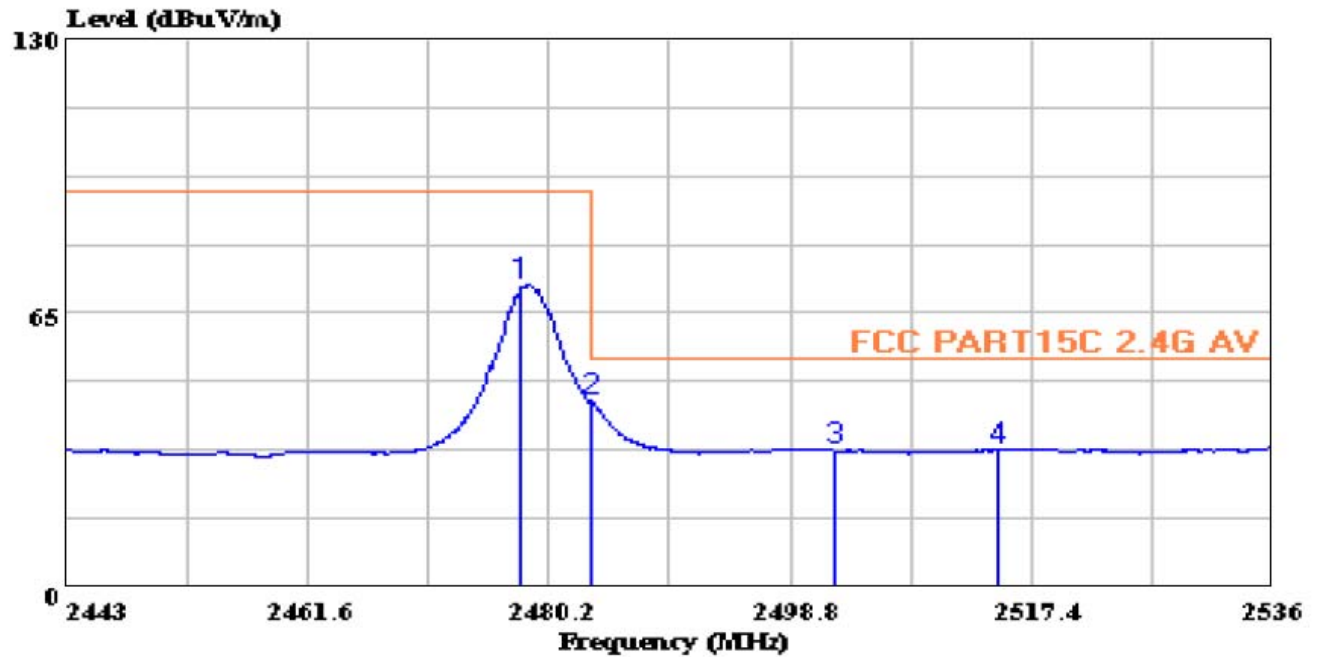


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Http://www.nscn.cn

Data#: 191 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:11:41



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 HORIZONTAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2478.000	71.47	-22.51	93.98	37.65	2.23	31.59	Average
2	2483.500	44.53	-9.47	54.00	10.71	2.23	31.59	Average
3	2502.241	32.79	-21.21	54.00	-1.05	2.23	31.61	Average
4	2514.796	32.50	-21.50	54.00	-1.34	2.23	31.61	Average

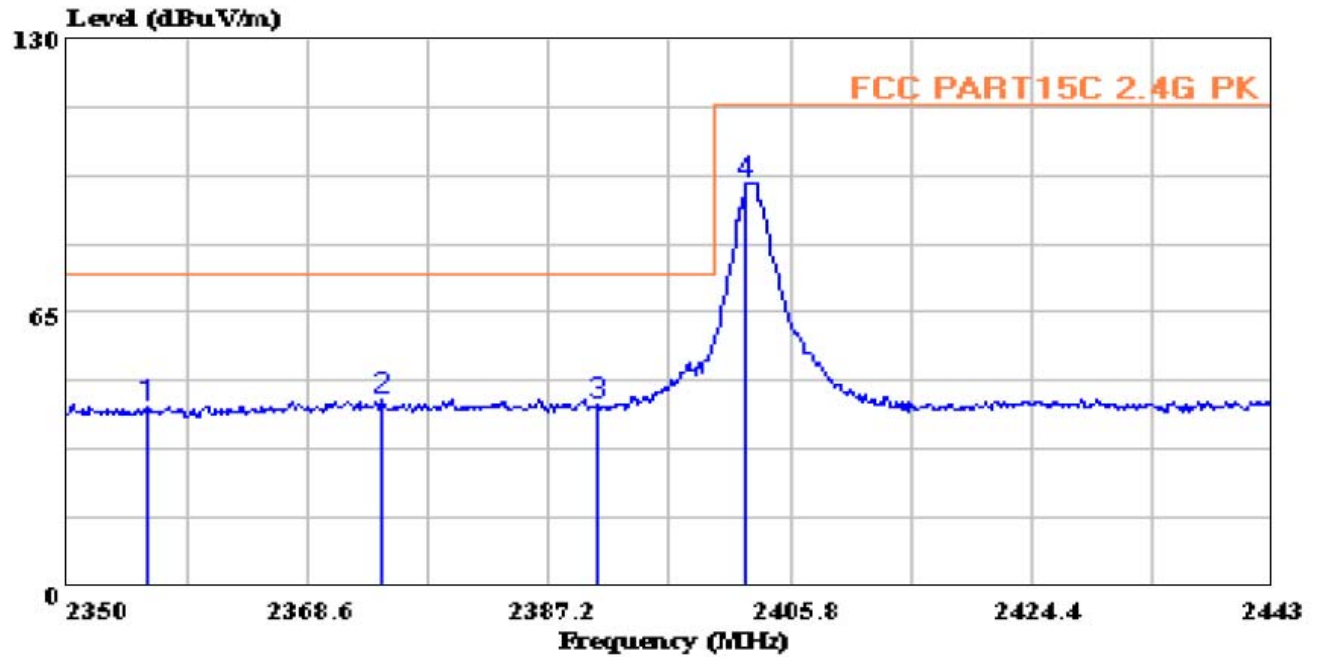


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Data#: 186 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:07:13



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2356.231	42.44	-31.56	74.00	8.76	2.22	31.46	Peak
2	2374.366	44.07	-29.93	74.00	10.37	2.22	31.48	Peak
3	2390.827	43.12	-30.88	74.00	9.39	2.23	31.50	Peak
4	2402.359	95.79	-18.19	113.98	62.05	2.23	31.51	Peak

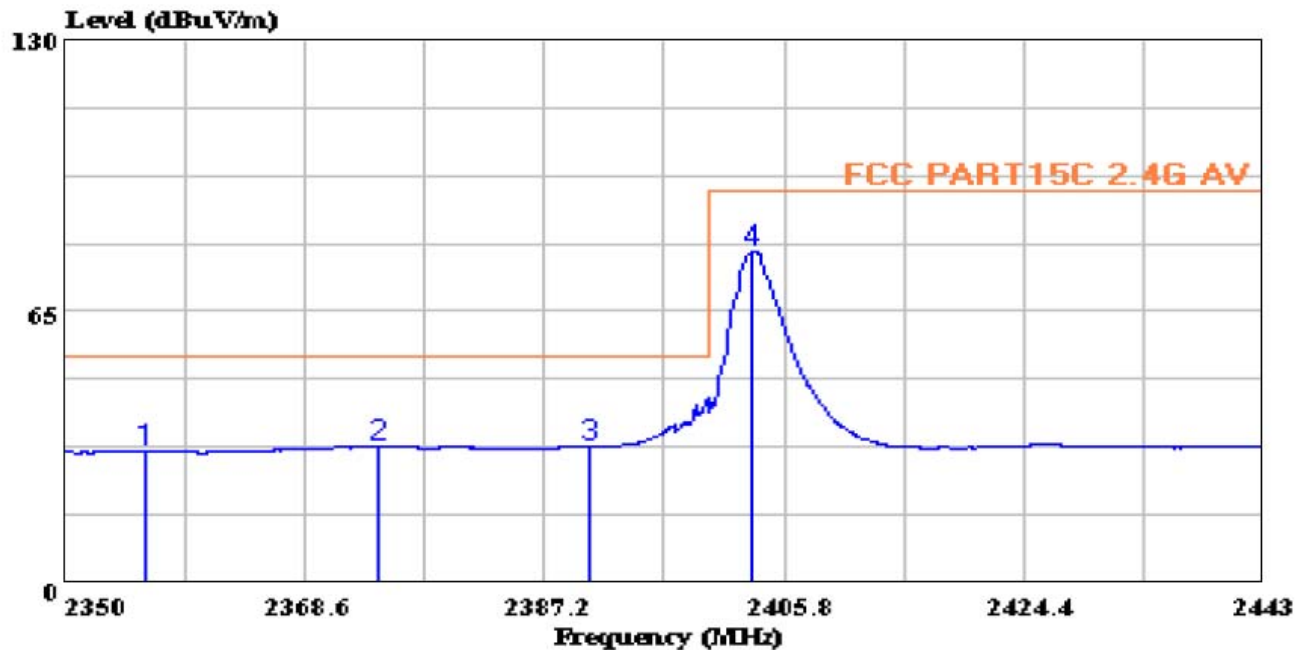


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Data#: 187 File#: \\966pcl\radiation\P\President.EMI Date: 2008-09-10 Time: 21:08:01



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2356.231	31.58	-22.42	54.00	-2.10	2.22	31.46	Average
2	2374.366	32.57	-21.43	54.00	-1.13	2.22	31.48	Average
3	2390.641	32.62	-21.38	54.00	-1.11	2.23	31.50	Average
4	2403.382	79.49	-14.49	93.98	45.75	2.23	31.51	Average

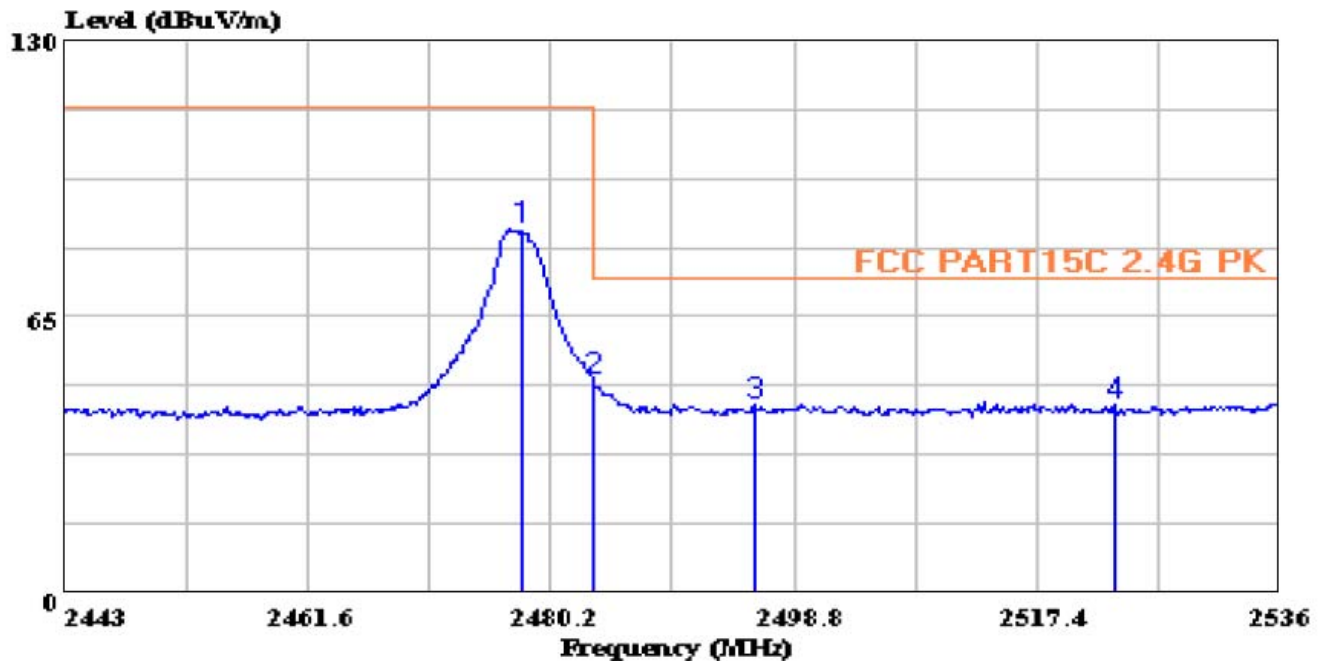


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Data#: 188 File#: \\966pc1\radiation\P\President.EMI Date: 2008-09-10 Time: 21:09:27



Site : 966 Chamber
Condition : FCC PART15C 2.4G PK 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	85.41	-28.57	113.98	51.59	2.23	31.59	Peak
2	2483.500	50.04	-23.96	74.00	16.22	2.23	31.59	Peak
3	2495.731	44.18	-29.82	74.00	10.35	2.23	31.60	Peak
4	2523.352	44.32	-29.68	74.00	10.47	2.23	31.62	Peak

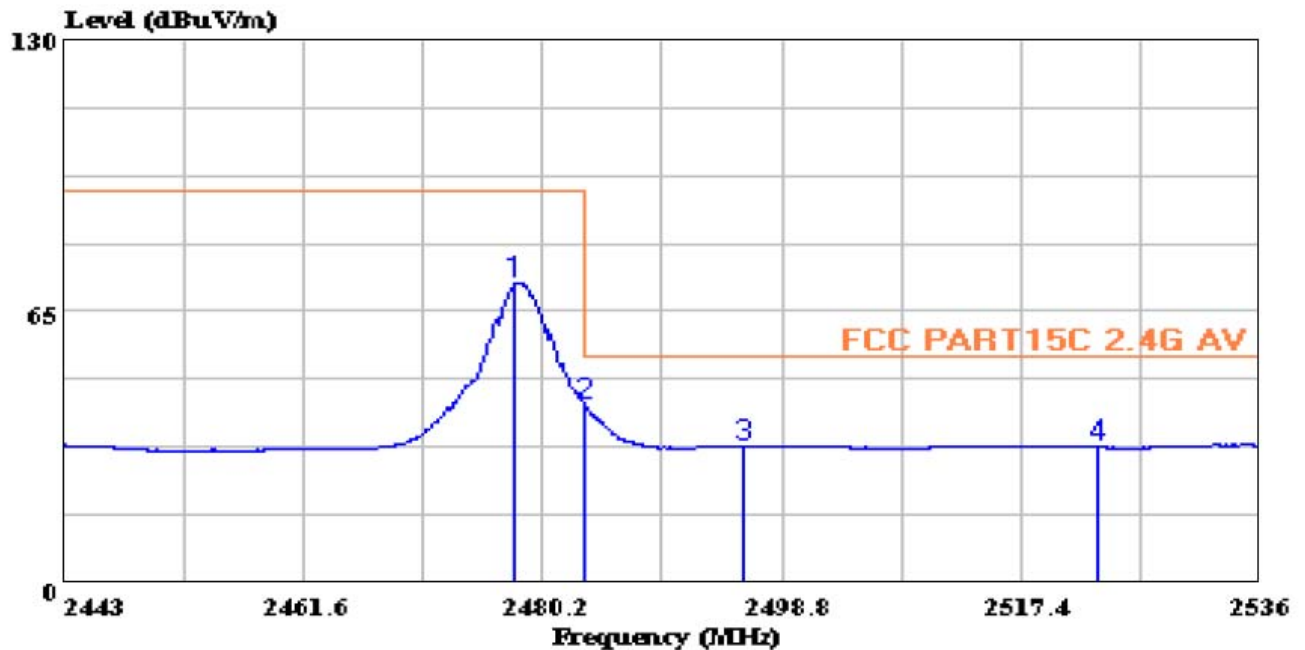


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Data#: 189 File#: \\966pcl\radiation\P\President.EMI Date: 2008-09-10 Time: 21:09:58



Site : 966 Chamber
Condition : FCC PART15C 2.4G AV 3m 3117 VERTICAL
EUT : CYFI Portable Speaker
M/N : CYFI 18
Power : DC 5V FROM ADAPTER INPUT AC 120V/60Hz
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	2478.000	71.71	-22.27	93.98	37.89	2.23	31.59	Average
2	2483.500	42.76	-11.24	54.00	8.94	2.23	31.59	Average
3	2495.731	32.58	-21.42	54.00	-1.25	2.23	31.60	Average
4	2523.352	32.63	-21.37	54.00	-1.22	2.23	31.62	Average

