

FCC COMPLIANCE REPORT

for

DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD

BLU-RAY DISC PLAYER

Model Number: NS-WBRDVD, NS-WBRDVD-CA, DS-B052

Prepared for : DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD
Address : DESAY 3RD INDUSTRY ZONE,CHENJIANG,TOWN,
HUIZHOU CITY GUANGDONG 516229 CHINA

Prepared By : NS Technology Co., Ltd.
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Report Number : NSE-F09073501
Date of Test : Jun. 25~Jul. 12, 2009
Date of Report : Jul. 15, 2009






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NS Technology Co., Ltd.

Applicant:	DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD		
Address:	DESAY 3 RD INDUSTRY ZONE,CHENJIANG,TOWN, HUIZHOU CITY GUANGDONG 516229 CHINA		
Manufacturer:	DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD		
Address:	DESAY 3 RD INDUSTRY ZONE,CHENJIANG,TOWN, HUIZHOU CITY GUANGDONG 516229 CHINA		
E.U.T:	BLU-RAY DISC PLAYER		
Model Number:	NS-WBRDVD, NS-WBRDVD-CA, DS-B052		
Trade Name:	-----	Operating Frequency:	2412MHz-----2462MHz 2422MHz-----2452MHz
Date of Receipt:	Jun. 18, 2009	Date of Test:	Jun. 25~Jul. 12, 2009
Test Specification:	FCC Part 15 Subpart C: Jul. 2008 ANSI C63.4:2003 KDB558074		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Jul. 15, 2009	
Tested by:	Reviewed by:	Approved by:	
			
Jade/ Engineer	Iceman Hu / Supervisor	Steven Lee / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.</i>			



1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

Description	: BLU-RAY DISC PLAYER
Model No.	: NS-WBRDVD
Operation frequency	: IEEE 802.11b/g ,802.11n HT20:2412MHz---2462MHz IEEE802.11n HT40:2422MHz-----2452MHz
Channel Number	: IEEE 802.11b/g, 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Modulation Technology	: DSSS for IEEE 802.11b and OFDM for IEEE 802.11g OFDM for IEEE802.11n
Antenna gain	: 2dBi (maximum)
System Input Voltage	: AC 120V/60Hz

1.3. Different Between Model Numbers

Note: The product are different only for the model number.

1.4. Independent Operation Modes

The tested modes are:

1.4.1. IEEE 802.11b/g ,802.11n HT20:2412MHz---2462MHz

1.4.2. IEEE802.11n HT40:2422MHz-----2452MHz

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.: 502831
Date of registration: February 09, 2009

Certificated by VCCI, Japan
Registration No.: R-2527 & C-2770
Date of registration: March 23, 2007

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.: 5936A
Date of registration: March 4, 2009

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 conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	100340	May 31,09	May 31,10
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 31,09	May 31,10
Artificial Mains Network (AUX)	Kyoritsu	KNW-407	8-1579-1	Jan.19,09	Jan.19,11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 2,09	May 2,10
RF Cable	FUJIKURA	3D-2W	843 Cable 1#	May 2,09	May 2,10

2.2.2. For Radiation emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	841431/004	Jan.19, 09	Jan.19,10
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10
Amplifier	Agilent	8447D	2944A11174	Jan.19,09	Jan.19,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 15,08	Oct. 15,09
Coaxial Switch	Anritsu	MP59B	6200530579	May 2,09	May 2,10

2.2.3.For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30 M18G -12-SFF	NSEMC001	May 31,09	May 31,11
RF Cable	DRAKA	M06/25-RG 102	966Cable 3#24G	May 2,09	May 2,10

2.2.4.For 6dB bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10

2.2.5.For Output power test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	Agilent	E4416A	MY45100656	Jan. 19,09	Jan. 19,10
Power Sensor	Agilent	E9327A	MY44420694	Jan. 19,09	Jan. 19,10

2.2.6.For Band edge compliance test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30 M18G -12-SFF	NSEMC001	May 31,09	May 31,11
RF Cable	DRAKA	M06/25-RG 102	966Cable 3#24G	May 2,09	May 2,10

2.2.7. For Power spectral density test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E7405A	MY45118807	May 31,09	May 31,10

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

EMISSION		
Description of Test Item	Standard	Results
Conducted Spurious Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 KDB558074	PASS
Radiated Spurious Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 KDB558074	PASS
6dB Bandwidth Test	FCC Part 15: 15.247 KDB558074	PASS
Output Power Test	FCC Part 15: 15.247 KDB558074	PASS
Band Edge Compliance Test	FCC Part 15: 15.247 KDB558074	PASS
Power Spectral Density Test	FCC Part 15: 15.247 KDB558074	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

Note: N/A is an abbreviation for Not Applicable.

4.1. Conducted Emission

4.1.1. Test limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(√V)	Average Level dB(√V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

4.1.2. Test procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

4.1.3. Test result

PASS.

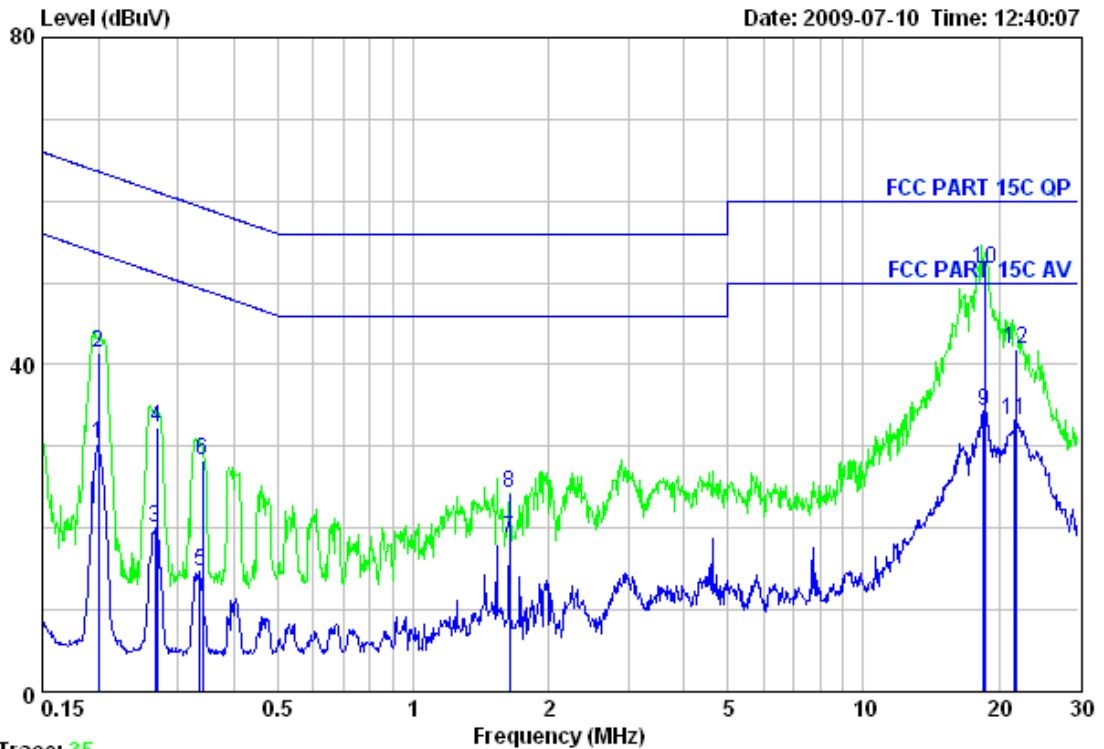
The test plots as following:

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Data: 36 File: D:\Conduction\Desay.EMI (38)

Date: 2009-07-10 Time: 12:40:07



Trace: 35

Test Site : 843 Shielded Room
 Limit : FCC PART 15C QP LINE Phase : LINE
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : NS-WBRDVD
 Test Engineer: Jade
 Comment : Temp:25.3'C Humi:56%
 Test Mode : TX Mode

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20	30.40	53.62	23.22	Average
2	0.20	41.50	63.62	22.12	QP
3	0.27	20.02	51.20	31.18	Average
4	0.27	32.39	61.12	28.73	QP
5	0.34	14.66	49.31	34.65	Average
6	0.34	28.31	59.20	30.89	QP
7	1.64	18.67	46.00	27.33	Average
8	1.64	24.38	56.00	31.62	QP
9	18.52	34.40	50.00	15.60	Average
10	18.62	51.75	60.00	8.25	QP
11	21.71	33.22	50.00	16.78	Average
12	21.83	41.98	60.00	18.02	QP

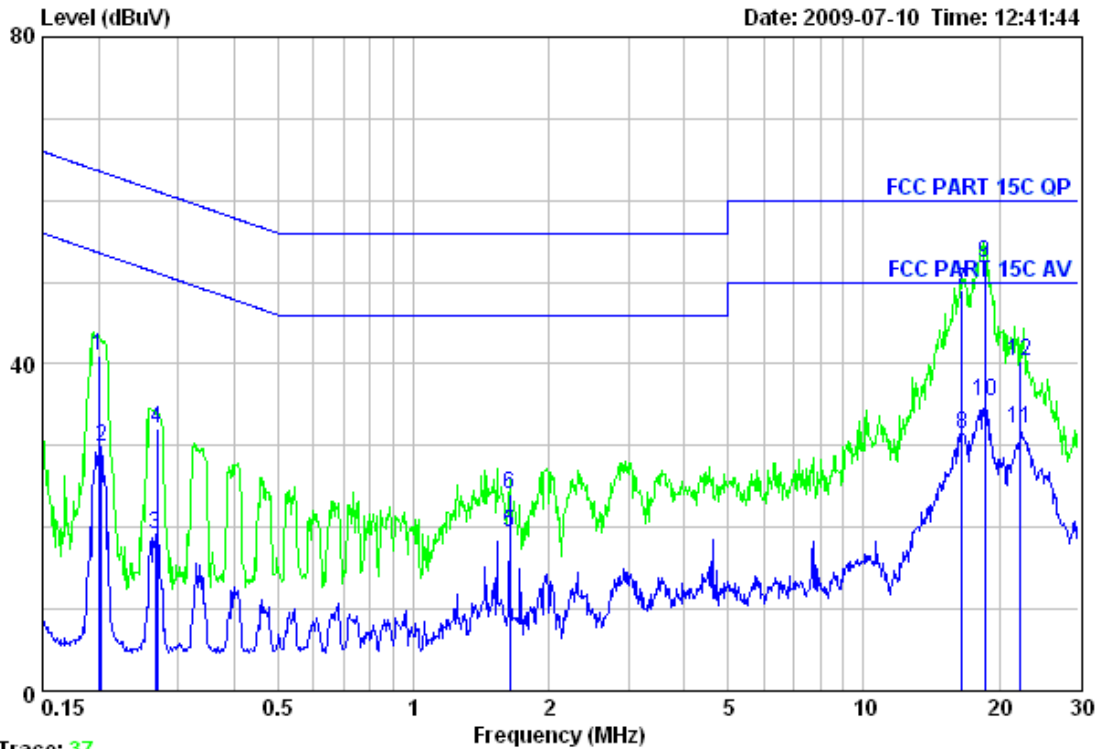


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Data: 38 File: D:\Conduction\Desay.EMI (38)

Date: 2009-07-10 Time: 12:41:44



Trace: 37

Test Site : 843 Shielded Room
Limit : FCC PART 15C QP LINE Phase : NEUTRAL
EUT : BLU-RAY DISC PLAYER
Power : AC 120V/60Hz
M/N : NS-WBRDVD
Test Engineer: Jade
Comment : Temp:25.3'C Humi:56%
Test Mode : TX Mode

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20	40.92	63.61	22.69	QP
2	0.20	29.96	53.49	23.53	Average
3	0.27	19.11	51.20	32.09	Average
4	0.27	32.04	61.12	29.08	QP
5	1.64	19.48	46.00	26.52	Average
6	1.64	24.12	56.00	31.88	QP
7	16.57	49.07	60.00	10.93	QP
8	16.57	31.40	50.00	18.60	Average
9	18.62	52.30	60.00	7.70	QP
10	18.62	35.39	50.00	14.61	Average
11	22.30	32.00	50.00	18.00	Average
12	22.30	40.23	60.00	19.77	QP



4.2. 6dB Bandwidth Test

4.2.1. Test procedure

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.2.2. Test result

Pass

Test Mode: IEEE 802.11b TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	12.53	>500	PASS
6	12.27	>500	PASS
11	12.00	>500	PASS

Test Mode: IEEE 802.11g TX

CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.53	>500	PASS
6	16.53	>500	PASS
11	16.53	>500	PASS

Test Mode: IEEE 802.11n TX (HT20)

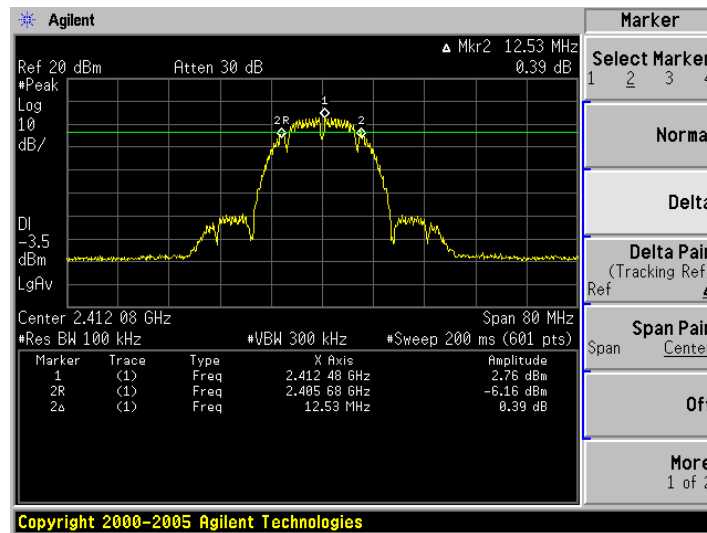
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	17.87	>500	PASS
6	18.00	>500	PASS
11	17.87	>500	PASS

Test Mode: IEEE 802.11n TX (HT40)

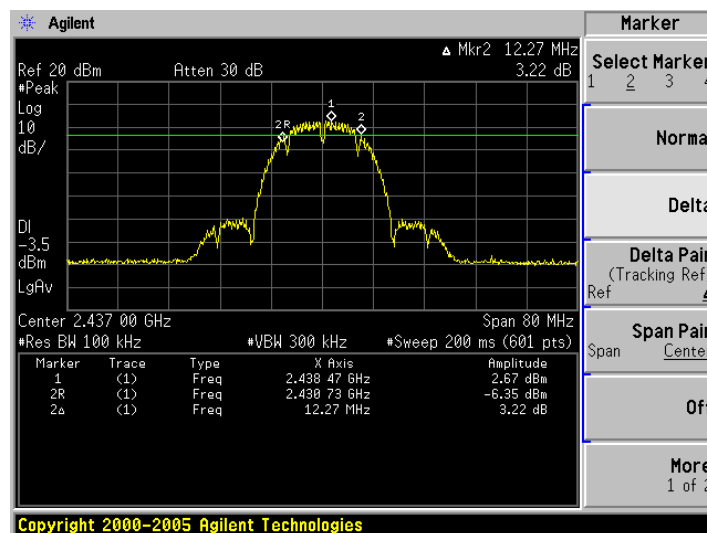
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	36.53	>500	PASS
4	36.53	>500	PASS
7	36.53	>500	PASS

Test Mode: IEEE 802.11b TX

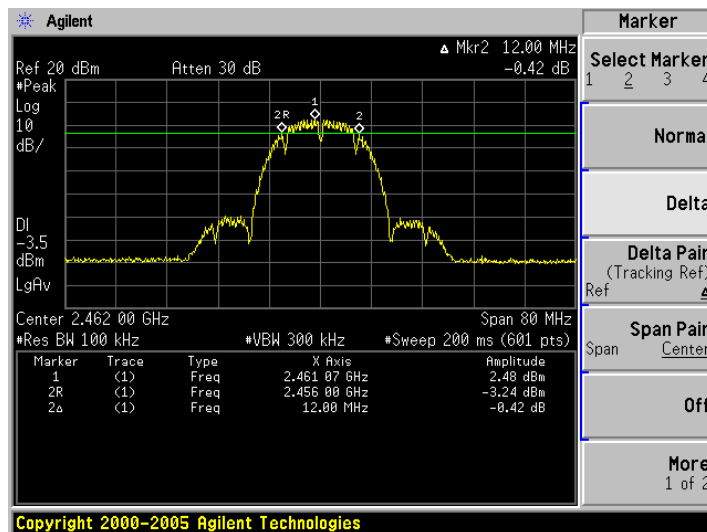
Test CH1: 2412MHz



Test CH6: 2437MHz

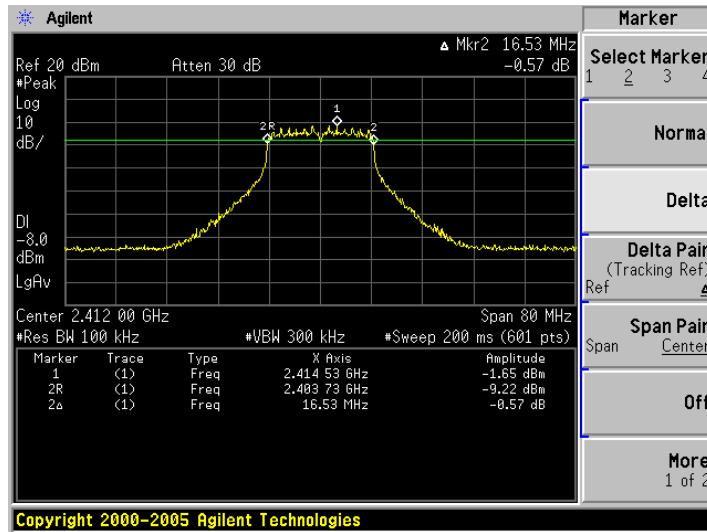


Test CH11: 2462MHz

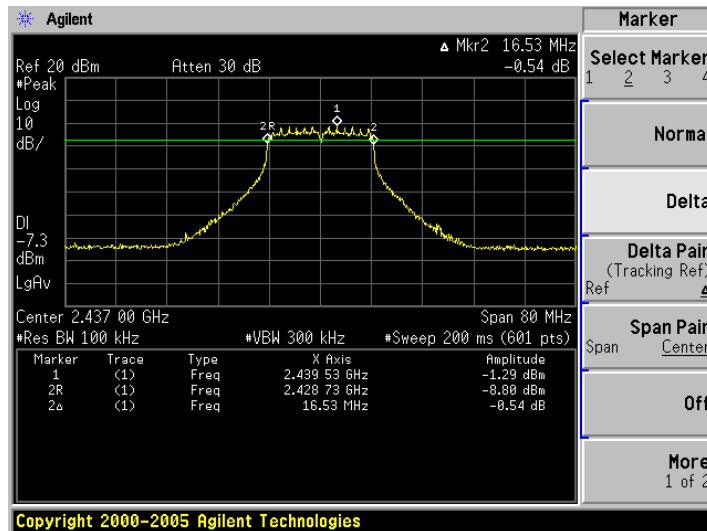


Test Mode: IEEE 802.11g TX

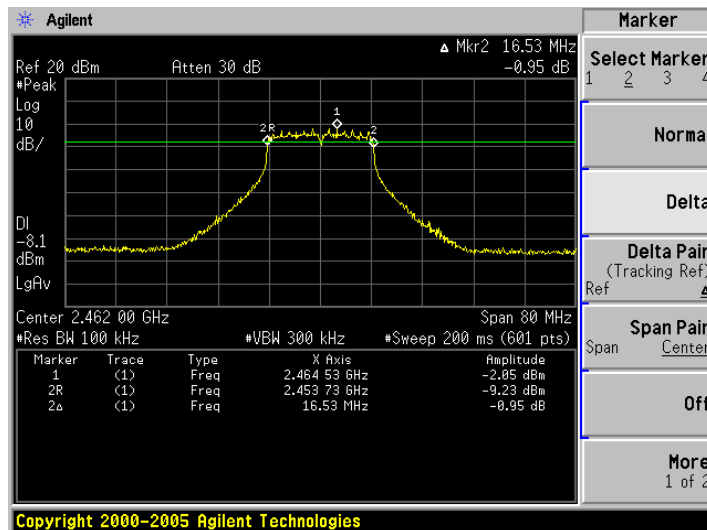
Test CH1: 2412MHz



Test CH6: 2437MHz

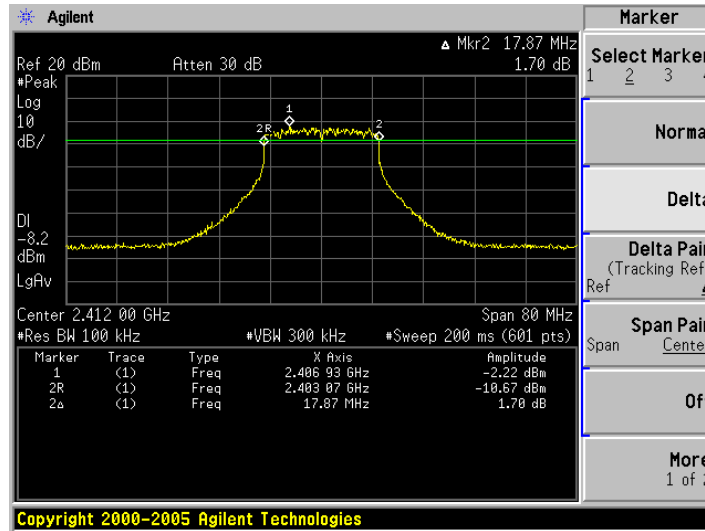


Test CH11: 2462MHz

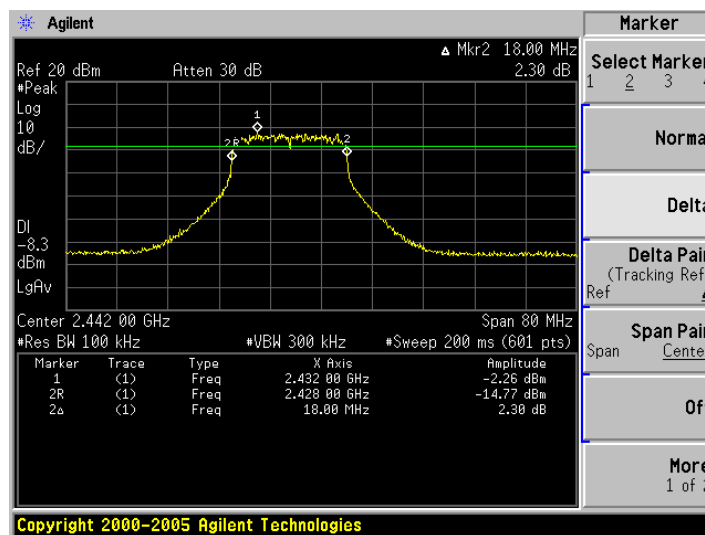


Test Mode: IEEE 802.11n TX (HT20)

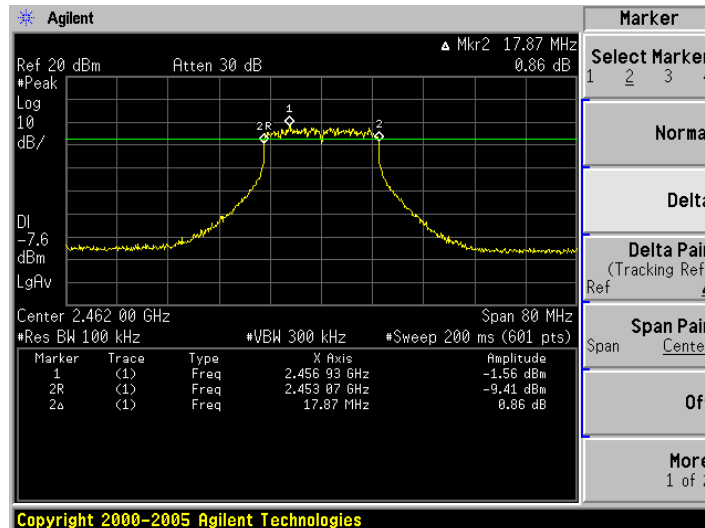
Test CH1: 2412MHz



Test CH6: 2437MHz

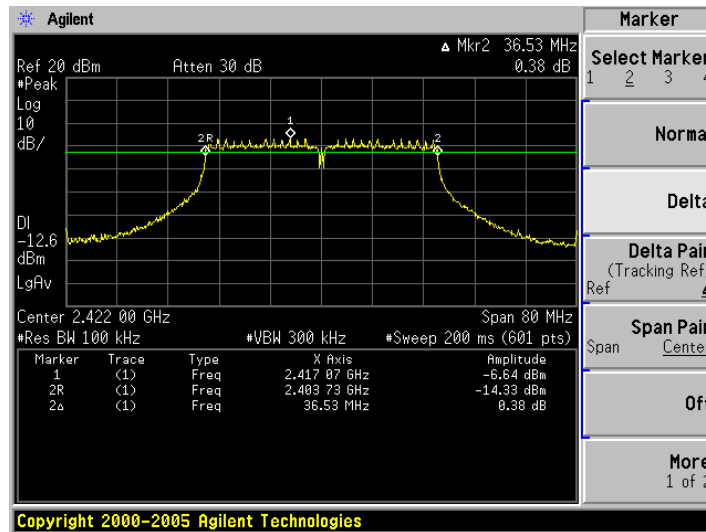


Test CH11: 2462MHz

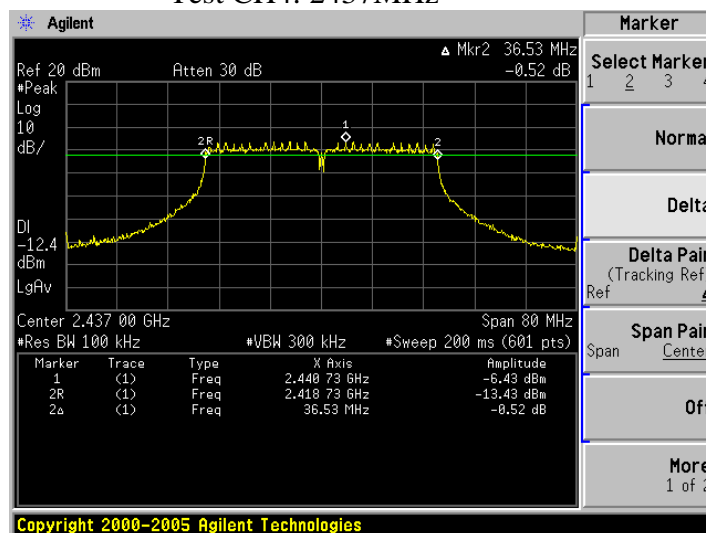


Test Mode: IEEE 802.11n TX (HT40)

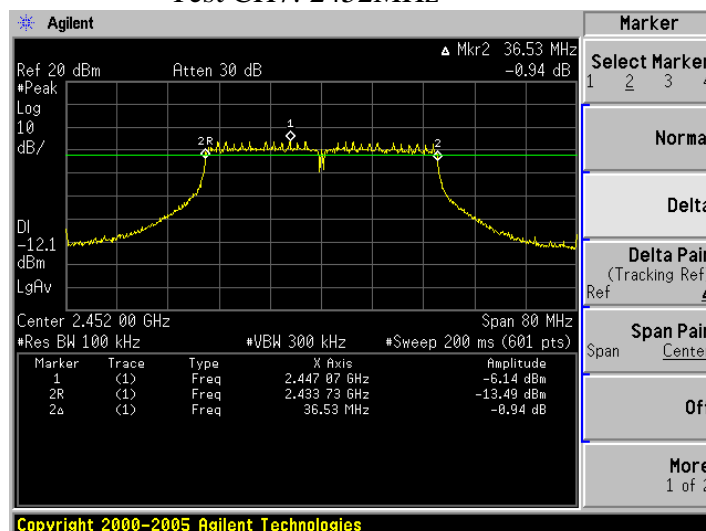
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



4.3. OUTPUT POWER TEST

4.3.1. Test procedure

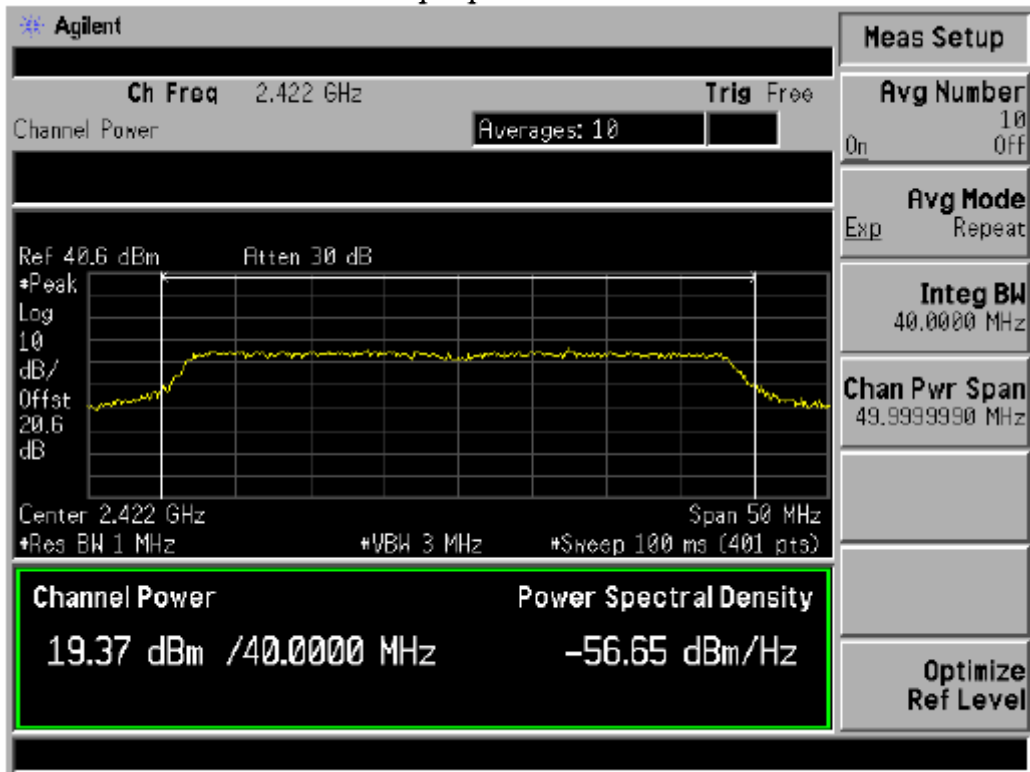
- 1, For IEEE 802.11b/g and IEEE802.11n HT20 mode, the transmitter output was connected to a power meter, use the power meter to read out the peak out put power.
- 2, For IEEE802.11n HT40 mode the transmitter output was connected to a Spectrum Analyzer through a 20dB Attenuator, and use the channel power measure function of Spectrum Analyzer to read out the peak output power.

4.3.2. Test result

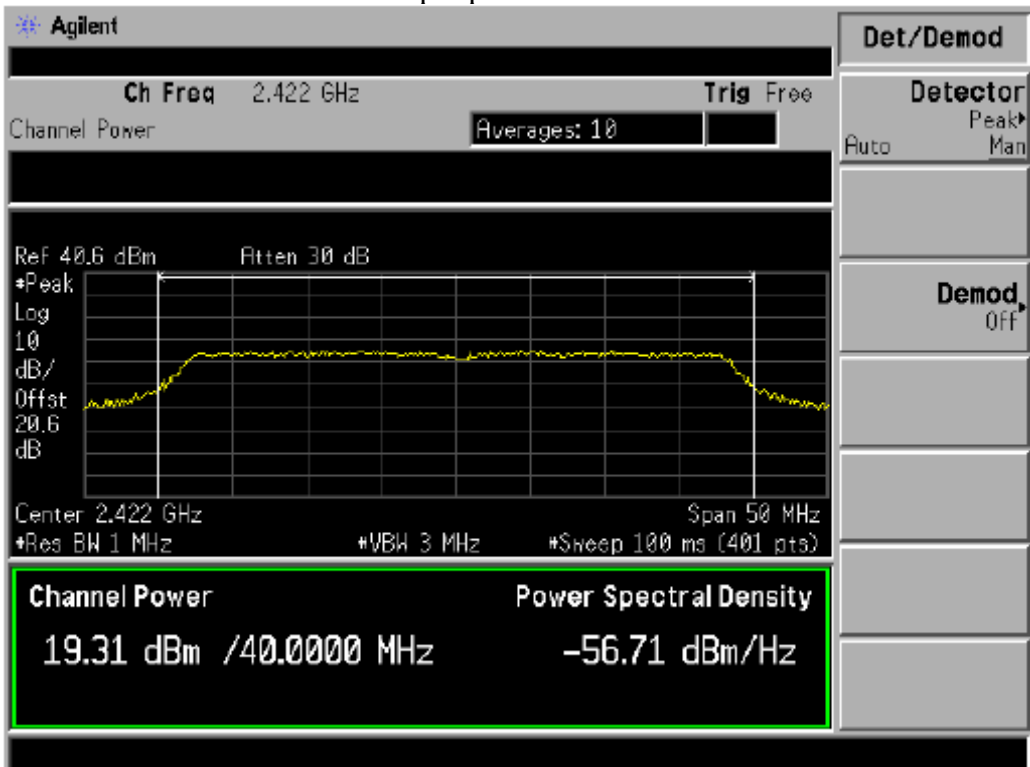
Pass

Test CH	11b,11g,11n HT20		CH1:2412MHz CH6:2437MHz CH11:2462MHz			
Test CH	11n HT40		CH1:2422MHz CH4:2437MHz CH7:2452MHz			
Mode	CH	Chain1	Chain2	Chain3	Res	
		Level (dBm)	Level (dBm)	Level (dBm)	Total Power (dBm)	Limit (dBm)
11b	CH1	15.32	15.53	15.65	20.27	30.0
	CH6	15.65	15.26	15.89	20.38	30.0
	CH11	15.72	15.68	15.91	20.54	30.0
11g	CH1	17.56	17.48	17.77	22.38	30.0
	CH6	17.45	17.92	17.90	22.53	30.0
	CH11	17.72	18.01	17.63	22.56	30.0
11n HT20	CH1	17.96	17.85	17.94	22.69	30.0
	CH6	18.02	17.92	17.68	22.65	30.0
	CH11	18.12	17.53	17.83	22.60	30.0
11n HT40	CH1	19.37	19.31	19.83	24.28	30.0
	CH4	19.76	18.88	19.21	24.07	30.0
	CH7	18.96	19.29	19.45	24.01	30.0
Note1:According Exploratory test, These data rate have the maximum output power						
Total power=Chain1 Level +Chain2 Level+Chain3 Level(Linear)						

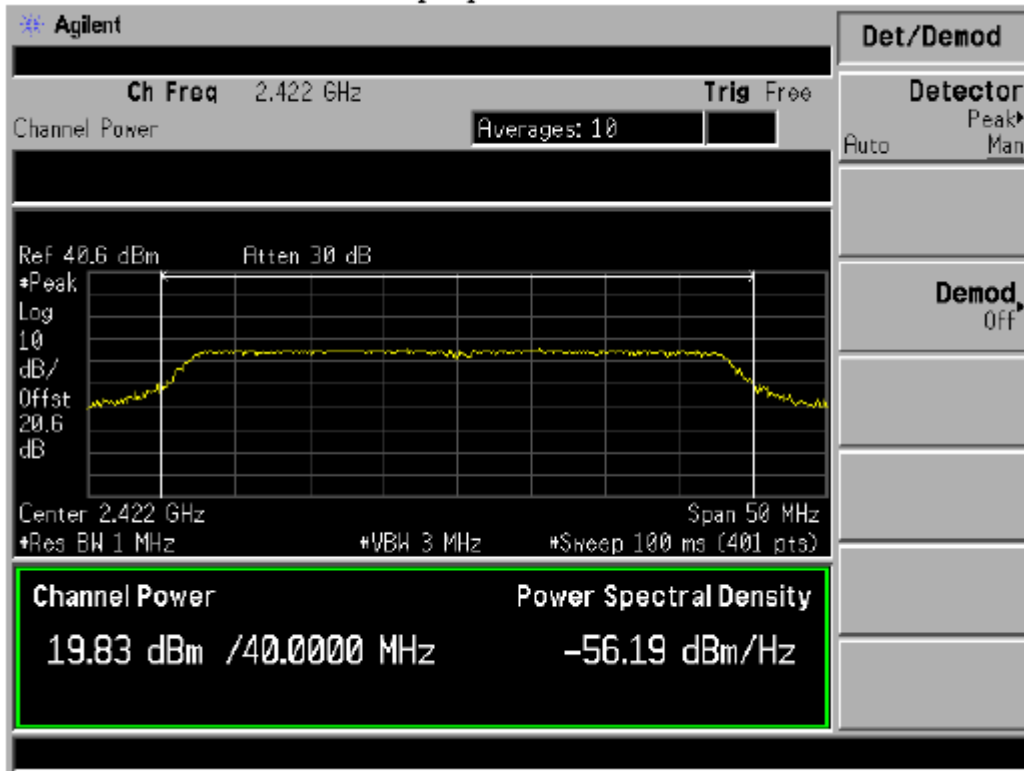
11n HT40 CH1 Chain1 Peak output power:



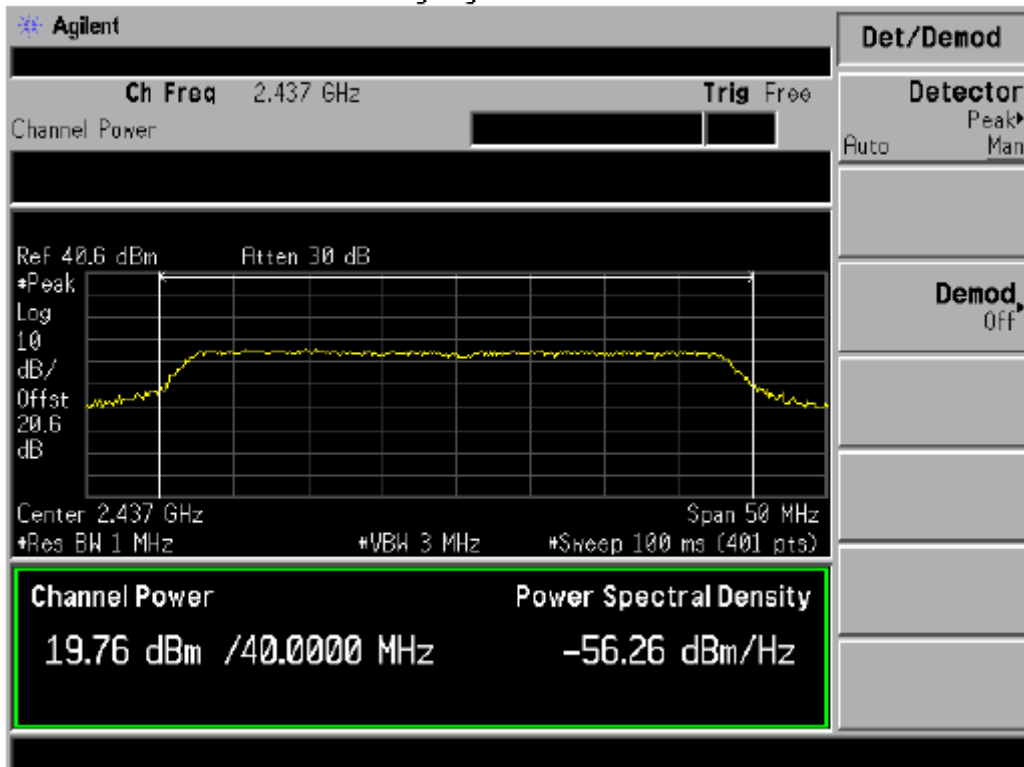
11n HT40 CH1 Chain2 Peak output power:



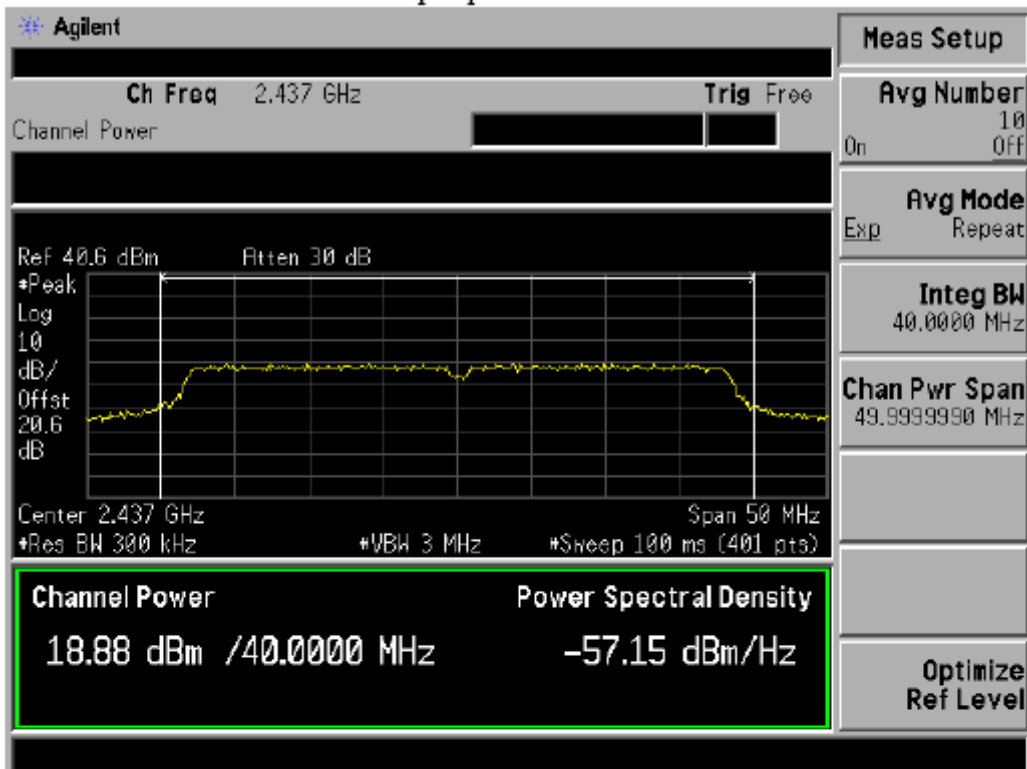
11n HT40 CH1 Chain3 Peak output power:



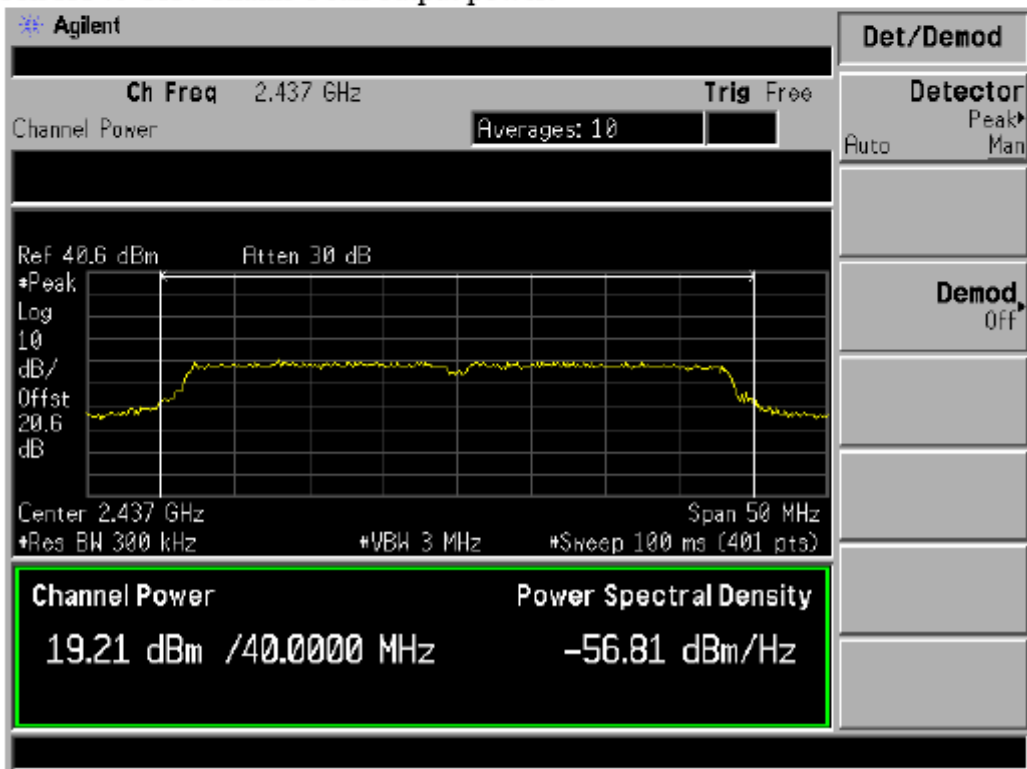
11n HT40 CH4 Chain1 Peak output power:



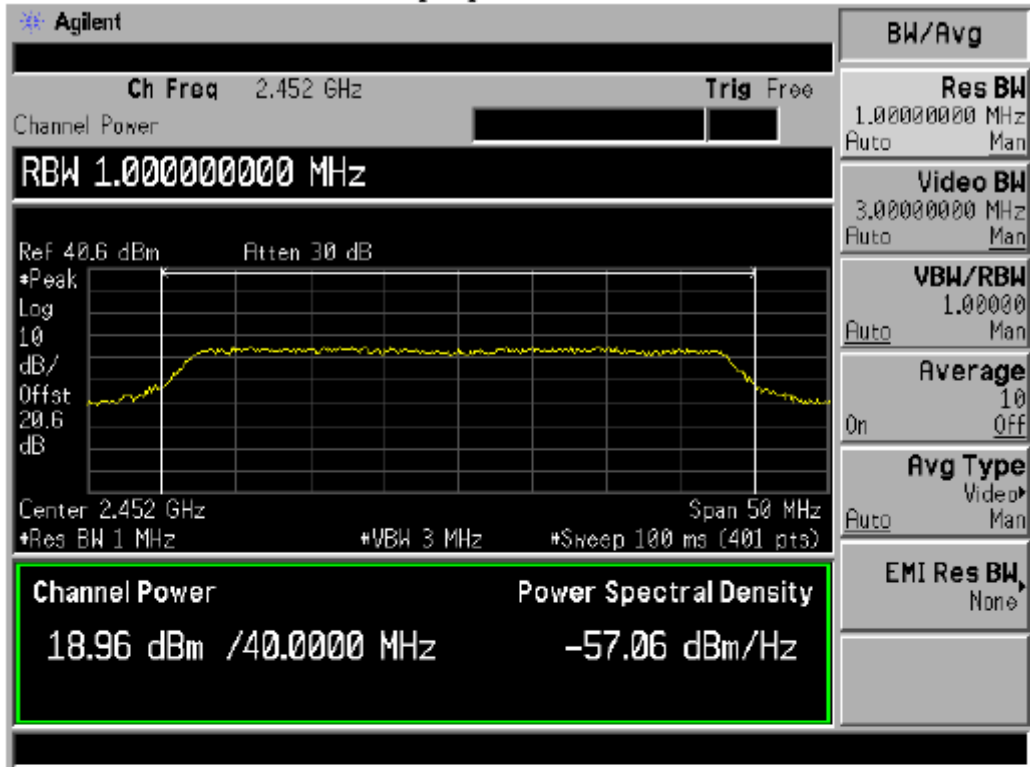
11n HT40 CH4 Chain2 Peak output power:



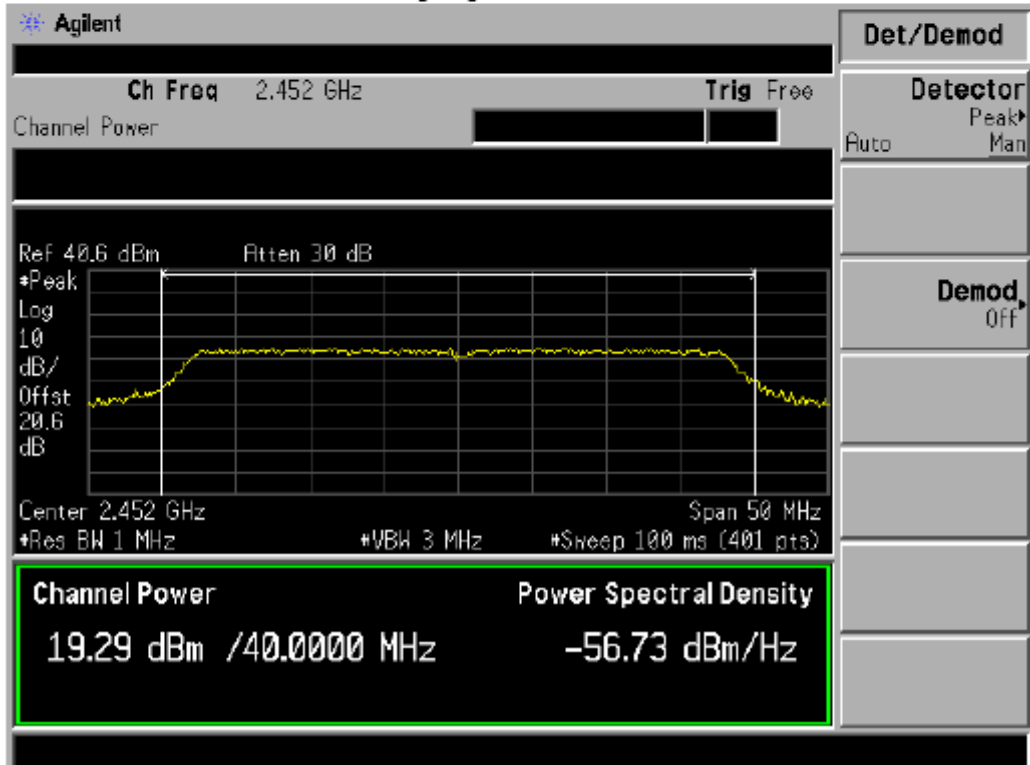
11n HT40 CH4 Chain3 Peak output power:



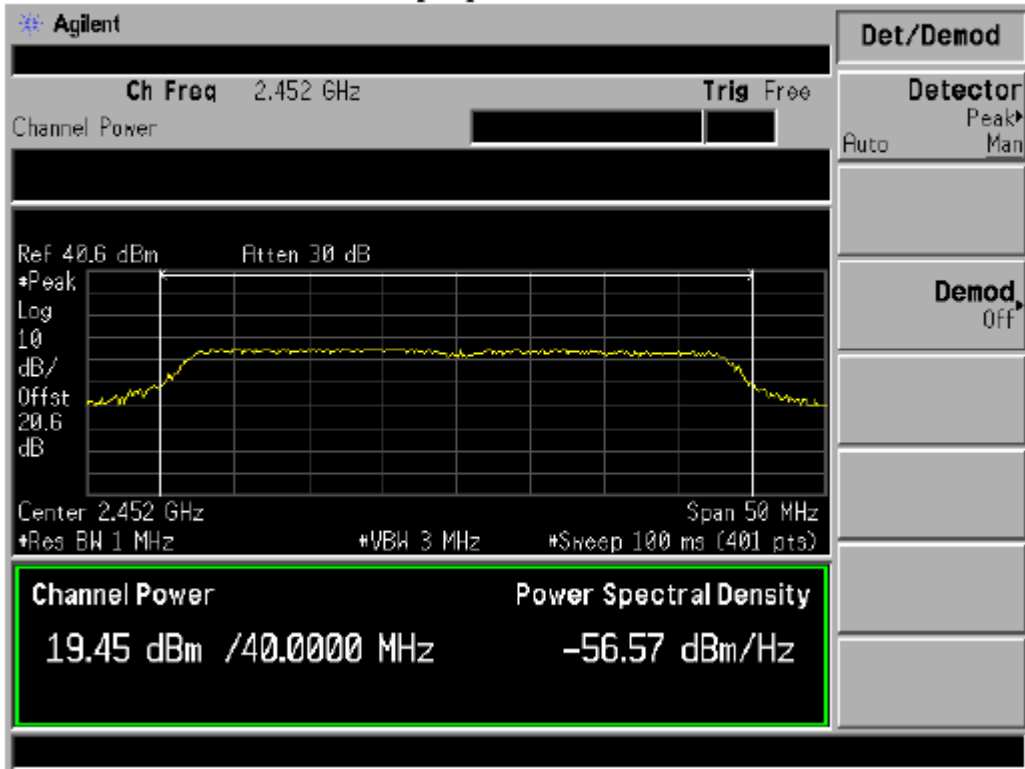
11n HT40 CH7 Chain1 Peak output power:



11n HT40 CH7 Chain2 Peak output power:



11n HT40 CH7 Chain3 Peak output power:



4.4. BAND EDGE COMPLIANCE TEST

4.4.1. Test limits

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.4.2. Test procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

4.4.3. Test result

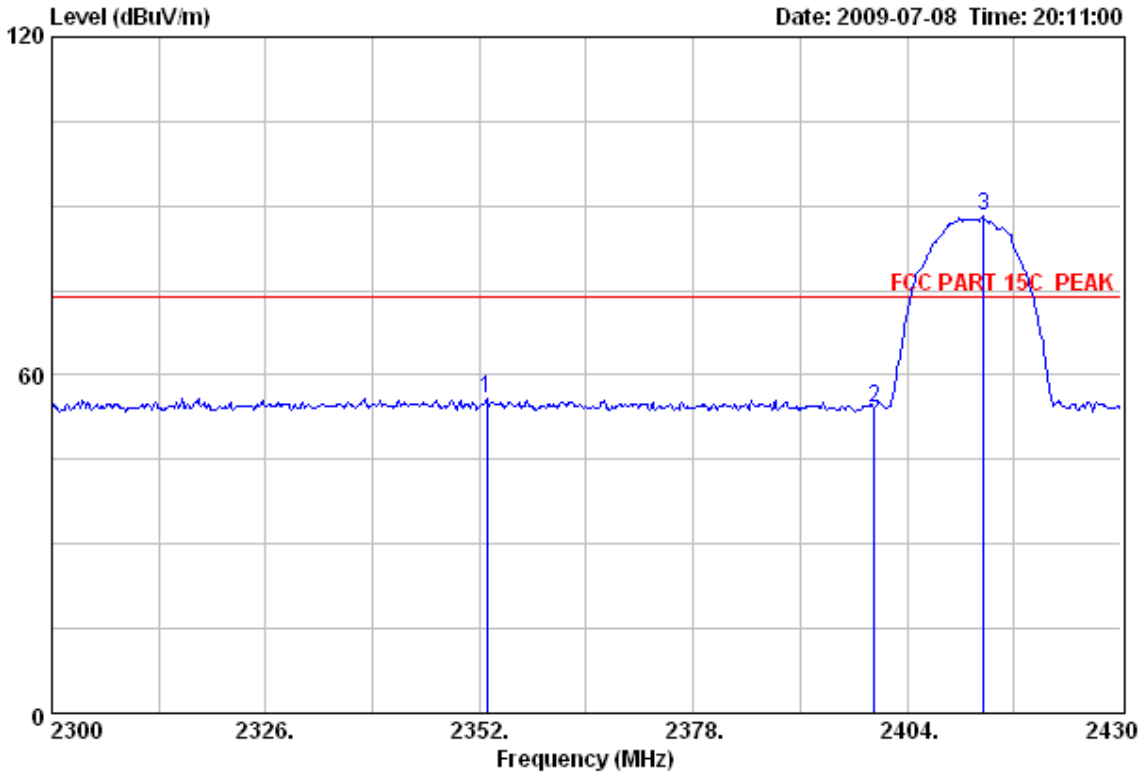
PASS.

The test plots as following:

NS Technology

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Fax: +86-769-85991080

Data: 72 File: D:\Radiation 10m data\DESAY.EMI (103) Date: 2009-07-08 Time: 20:11:00



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

	Emission				Ant. Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.91	55.76	74.00	18.24	22.09	31.45	2.22	Peak
2 2400.00	54.14	74.00	19.86	20.41	31.50	2.23	Peak
3 2413.36	88.12	74.00	-14.12	54.39	31.50	2.23	Peak



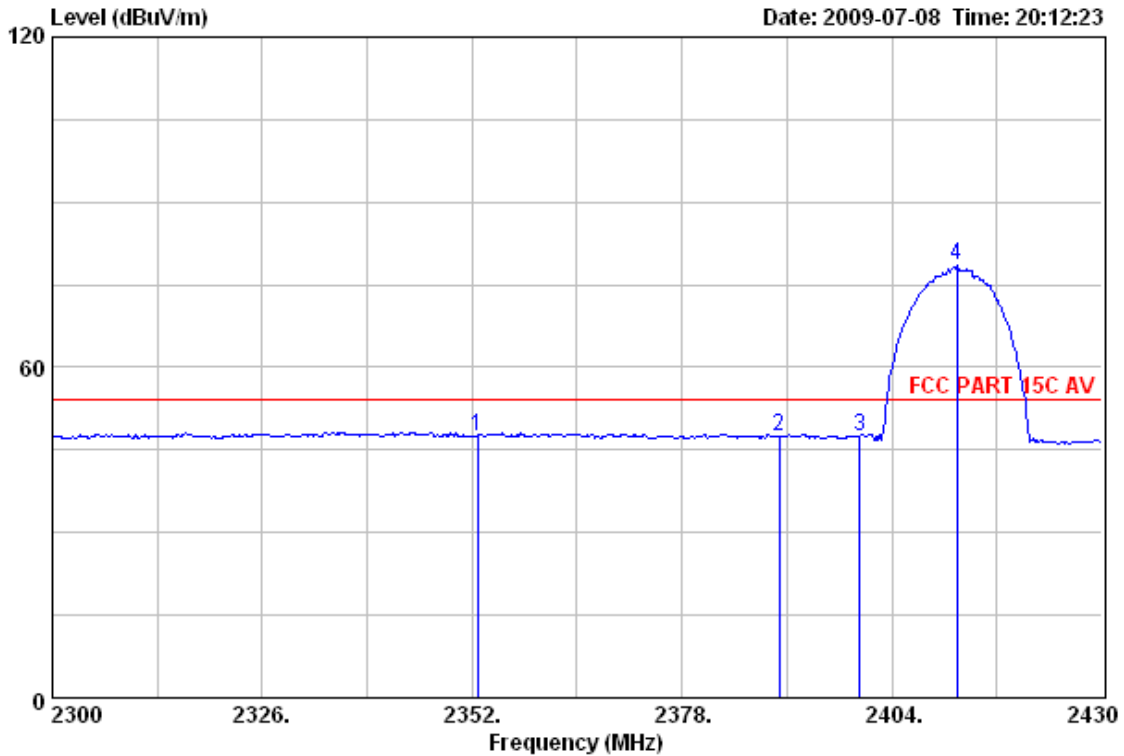
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Data: 73

File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:12:23



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2352.65	47.57	54.00	6.43	13.90	31.45	2.22	Average
2 2390.00	47.33	54.00	6.67	13.63	31.48	2.22	Average
3 2400.00	47.57	54.00	6.43	13.84	31.50	2.23	Average
4 2412.06	78.69	54.00	-24.69	44.96	31.50	2.23	Average



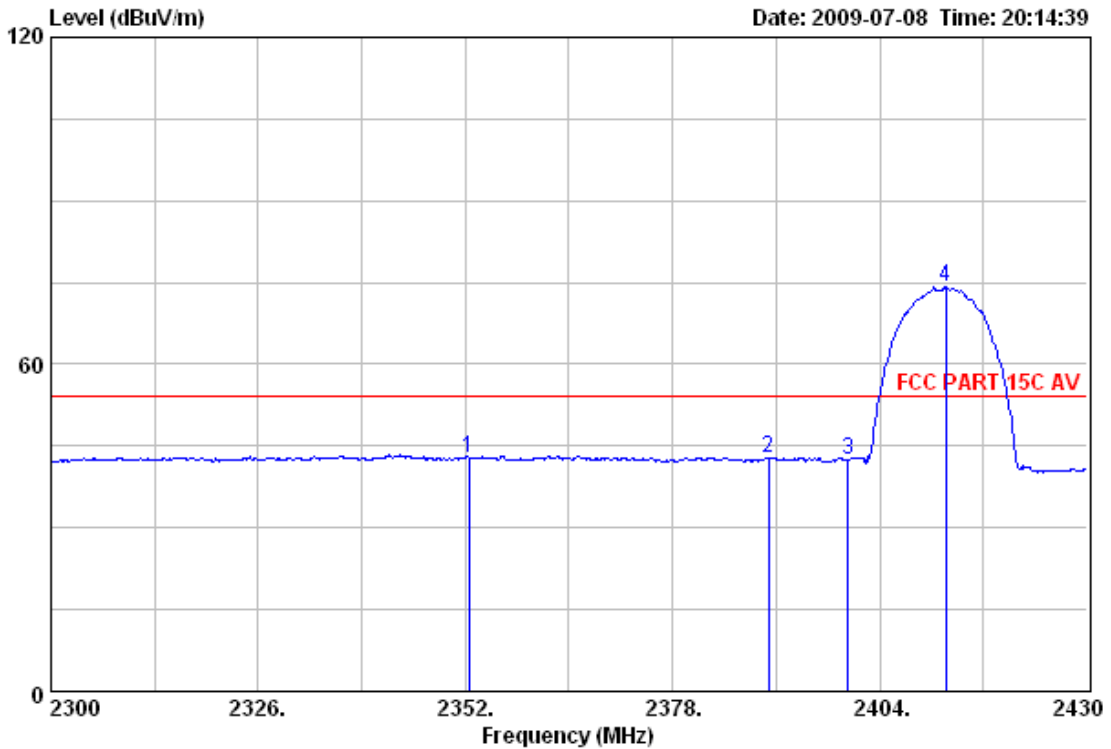
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Data: 74

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:14:39



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

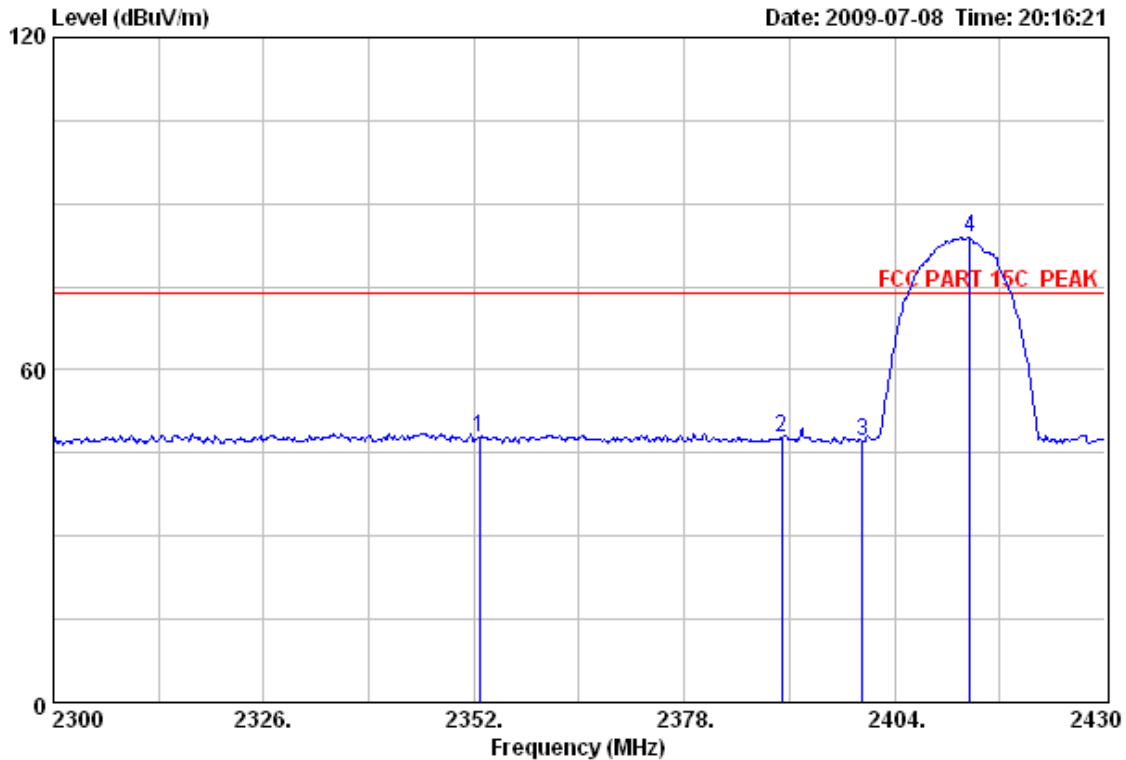
Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2352.39	42.94	54.00	11.06	9.27	31.45	2.22	Average
2 2390.00	42.66	54.00	11.34	8.96	31.48	2.22	Average
3 2400.00	42.52	54.00	11.48	8.79	31.50	2.23	Average
4 2412.32	74.34	54.00	-20.34	40.61	31.50	2.23	Average



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Data: 75 File: D:\Radiation 10m data\DESAY.EMI (103) Date: 2009-07-08 Time: 20:16:21



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

	Emission			Ant. Cable				
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1 2352.65	47.86	74.00	26.14	14.19	31.45	2.22	Peak	
2 2390.00	47.69	74.00	26.31	13.99	31.48	2.22	Peak	
3 2400.00	47.24	74.00	26.76	13.51	31.50	2.23	Peak	
4 2413.36	84.02	74.00	-10.02	50.29	31.50	2.23	Peak	



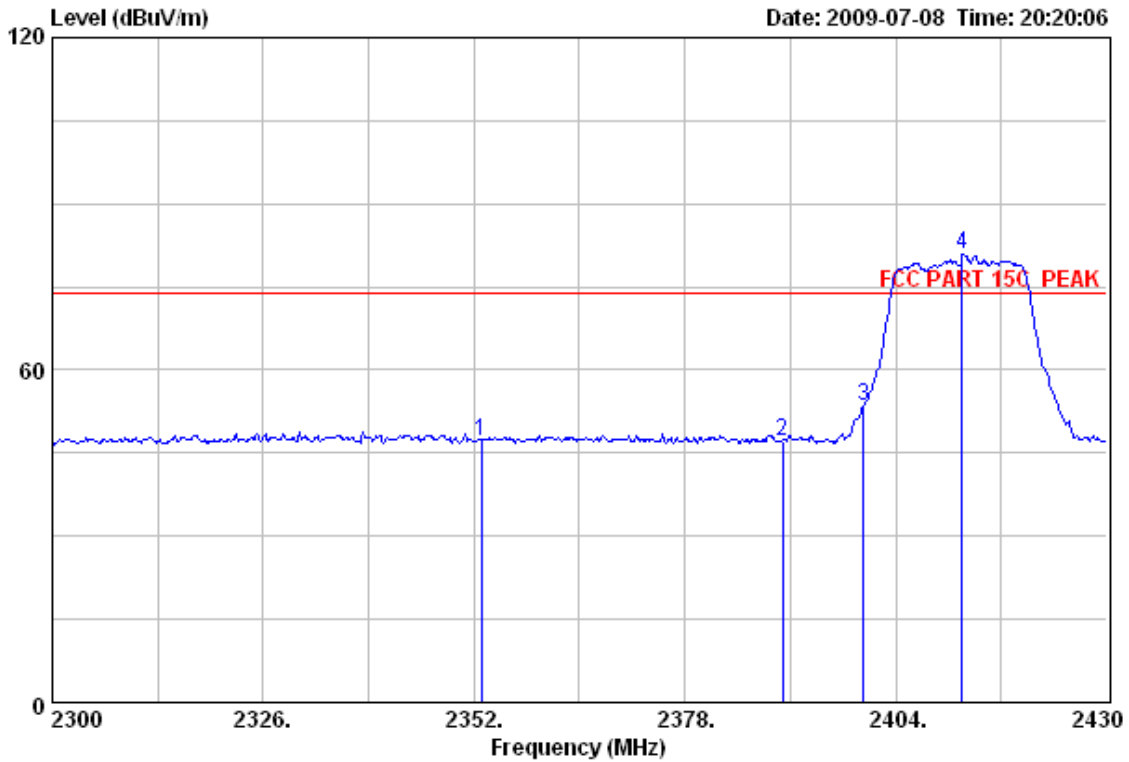
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Data: 76

File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:20:06



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

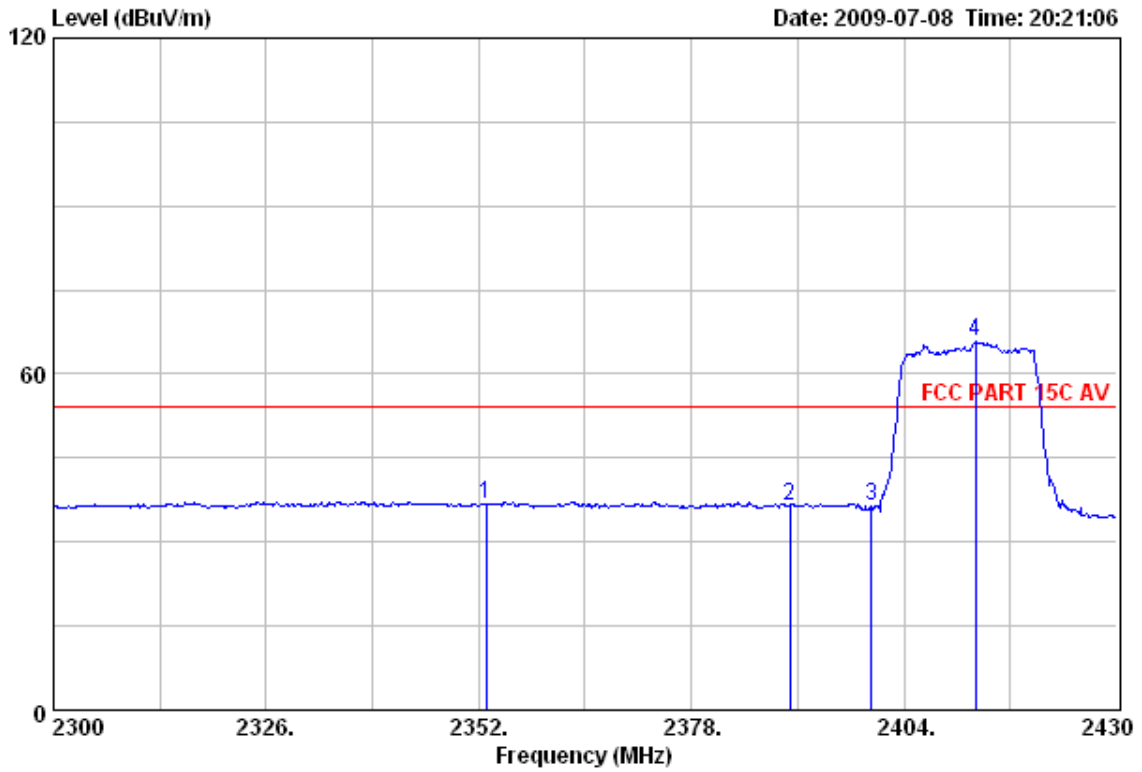
Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2352.91	47.27	74.00	26.73	13.60	31.45	2.22	Peak
2 2390.00	47.26	74.00	26.74	13.56	31.48	2.22	Peak
3 2400.00	53.37	74.00	20.63	19.64	31.50	2.23	Peak
4 2412.19	80.94	74.00	-6.94	47.21	31.50	2.23	Peak



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Data: 77 File: D:\Radiation 10m data\DESAY.EMI (103)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

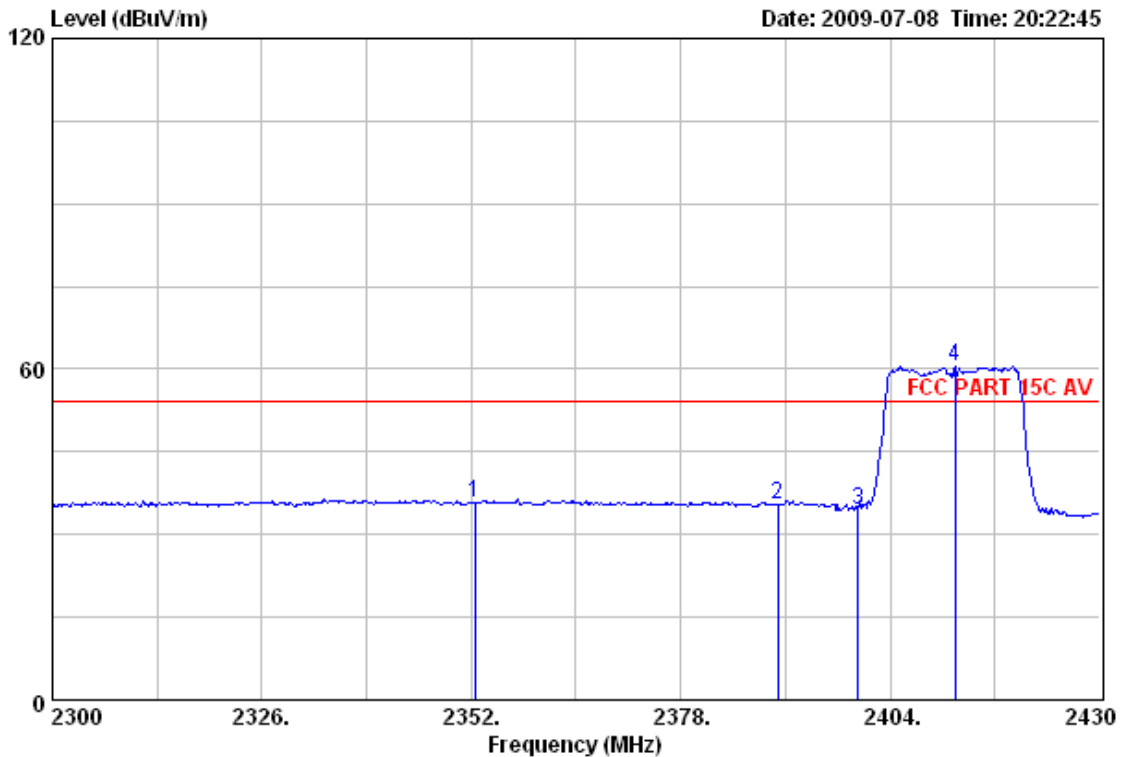
	Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1 2352.91	36.83	54.00	17.17	3.16	31.45	2.22	Average	
2 2390.00	36.28	54.00	17.72	2.58	31.48	2.22	Average	
3 2400.00	36.54	54.00	17.46	2.81	31.50	2.23	Average	
4 2412.71	65.92	54.00	-11.92	32.19	31.50	2.23	Average	



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Data: 78 File: D:\Radiation 10m data\DESAY.EMI (103) Date: 2009-07-08 Time: 20:22:45



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2352.39	35.64	54.00	18.36	1.97	31.45	2.22	Average
2 2390.00	35.36	54.00	18.64	1.66	31.48	2.22	Average
3 2400.00	34.58	54.00	19.42	0.85	31.50	2.23	Average
4 2412.06	60.52	54.00	-6.52	26.79	31.50	2.23	Average

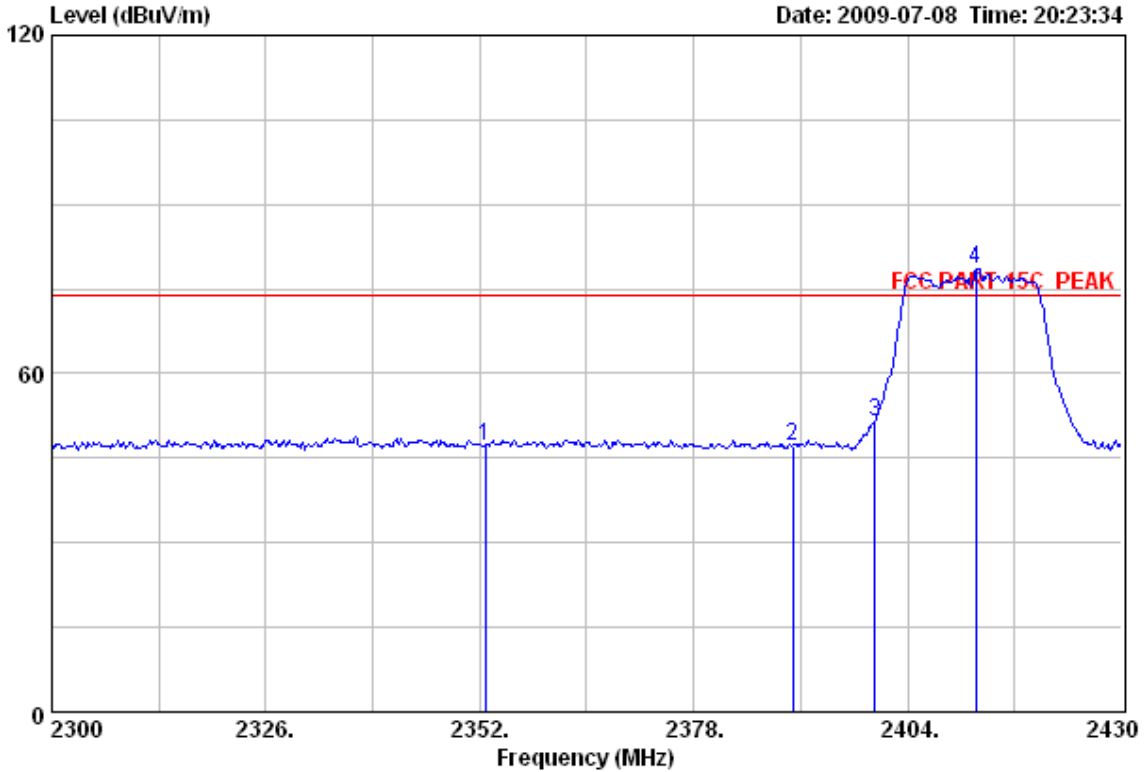


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Data: 79 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:23:34



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.65	47.19	74.00	26.81	13.52	31.45	2.22	Peak
2 2390.00	46.97	74.00	27.03	13.27	31.48	2.22	Peak
3 2400.00	51.38	74.00	22.62	17.65	31.50	2.23	Peak
4 2412.32	78.62	74.00	-4.62	44.89	31.50	2.23	Peak



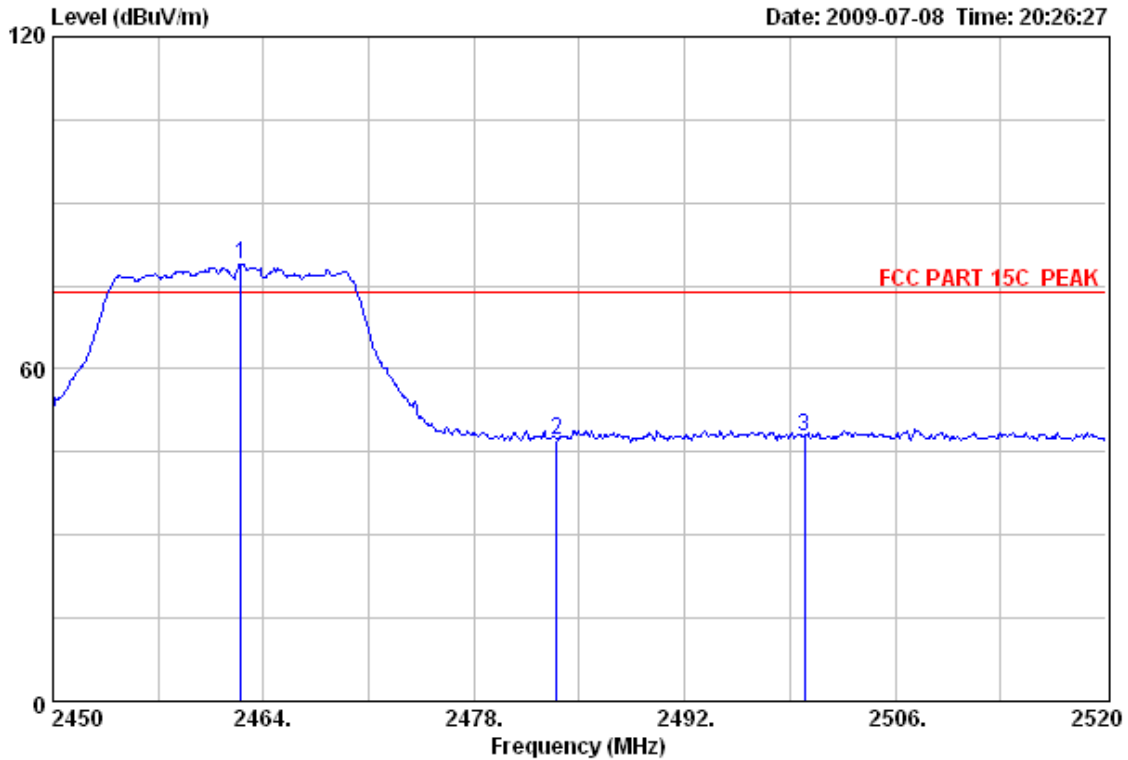
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Data: 80

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:26:27



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2462.53	78.90	74.00	-4.90	45.11	31.56	2.23	Peak
2 2483.50	47.27	74.00	26.73	13.46	31.58	2.23	Peak
3 2500.00	47.87	74.00	26.13	14.04	31.60	2.23	Peak



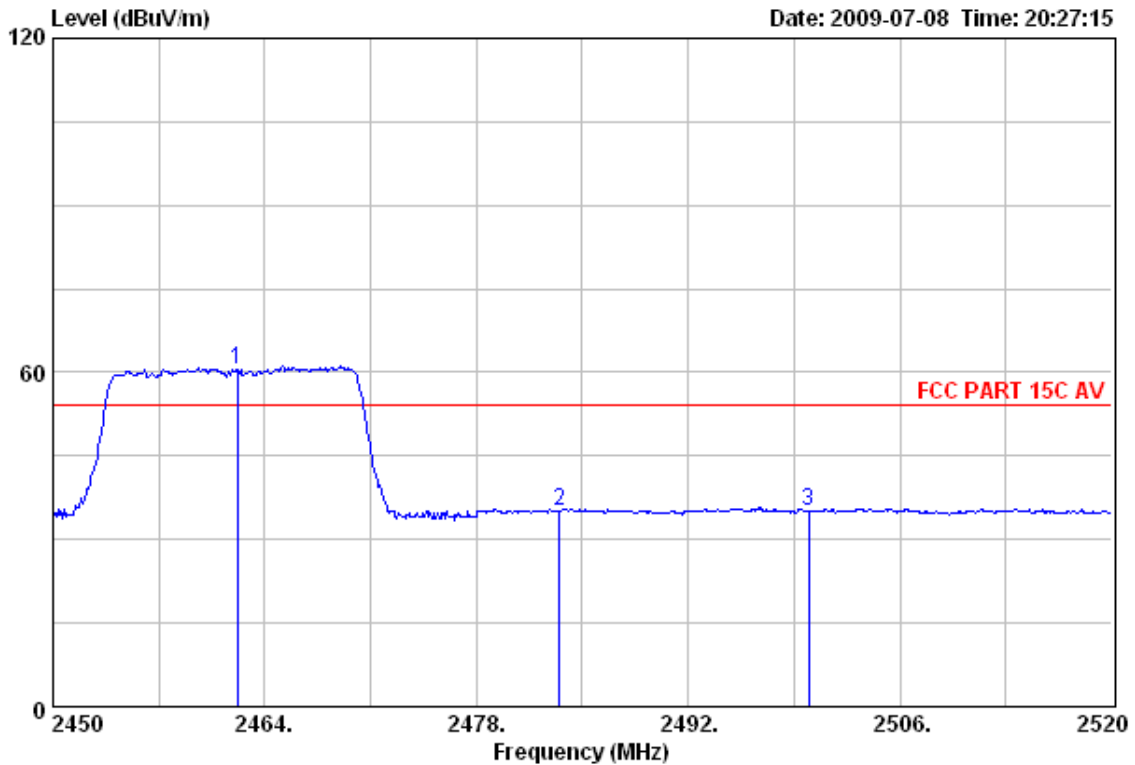
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Data: 81

File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:27:15



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.18	60.54	54.00	-6.54	26.75	31.56	2.23	Average
2 2483.50	35.15	54.00	18.85	1.34	31.58	2.23	Average
3 2500.00	35.23	54.00	18.77	1.40	31.60	2.23	Average



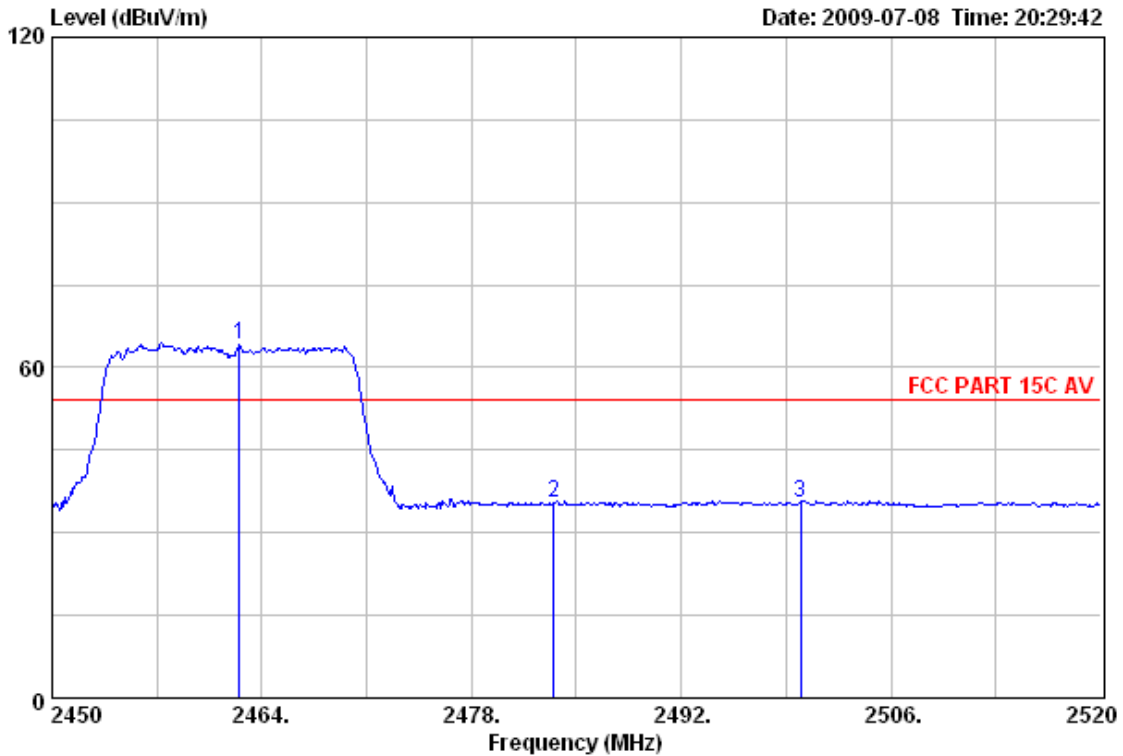
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Data: 82

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:29:42



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2462.53	64.04	54.00	-10.04	30.25	31.56	2.23	Average
2 2483.50	35.56	54.00	18.44	1.75	31.58	2.23	Average
3 2500.00	35.51	54.00	18.49	1.68	31.60	2.23	Average



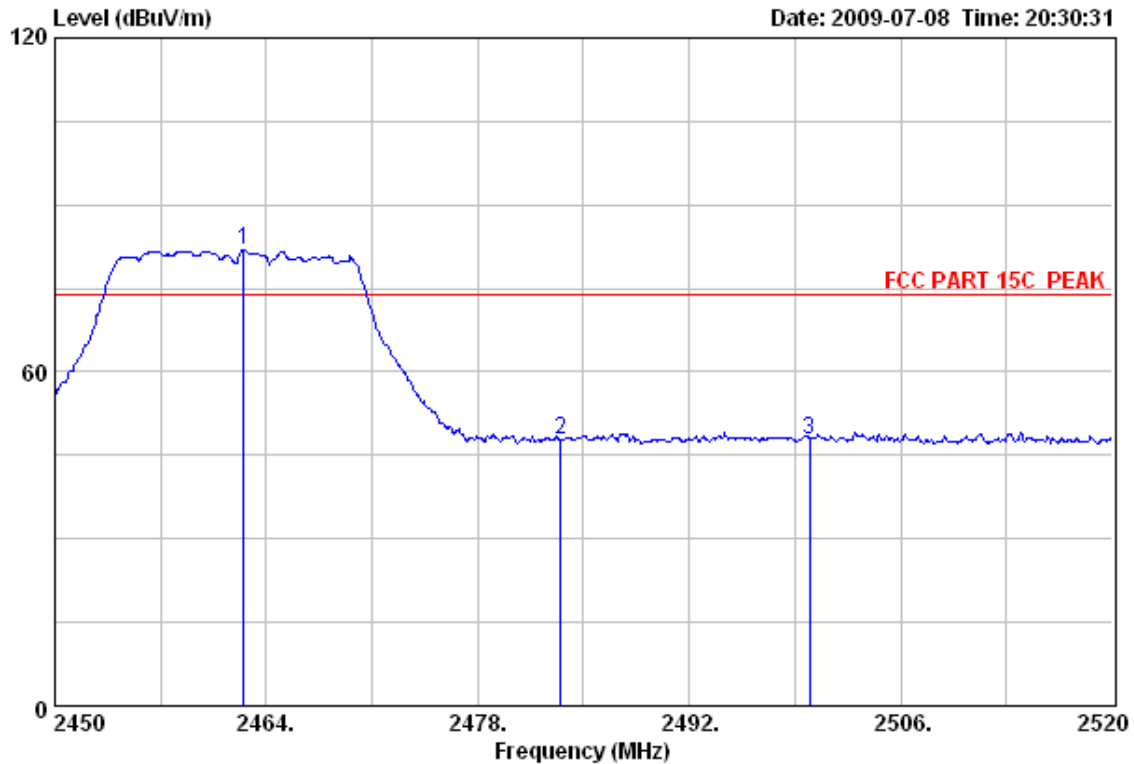
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Data: 83

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:30:31



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.53	81.92	74.00	-7.92	48.13	31.56	2.23	Peak
2 2483.50	47.78	74.00	26.22	13.97	31.58	2.23	Peak
3 2500.00	47.91	74.00	26.09	14.08	31.60	2.23	Peak

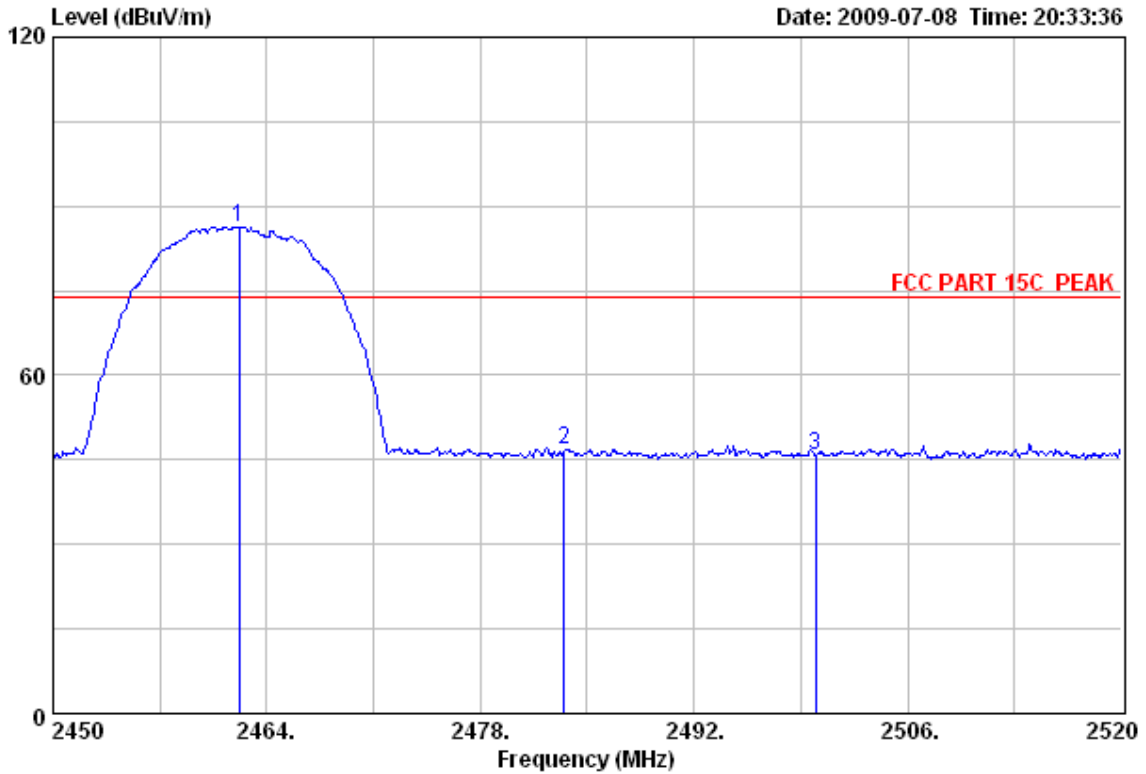


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Data: 84 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:33:36



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2462.18	86.37	74.00	-12.37	52.58	31.56	2.23	Peak
2 2483.50	46.66	74.00	27.34	12.85	31.58	2.23	Peak
3 2500.00	45.73	74.00	28.27	11.90	31.60	2.23	Peak

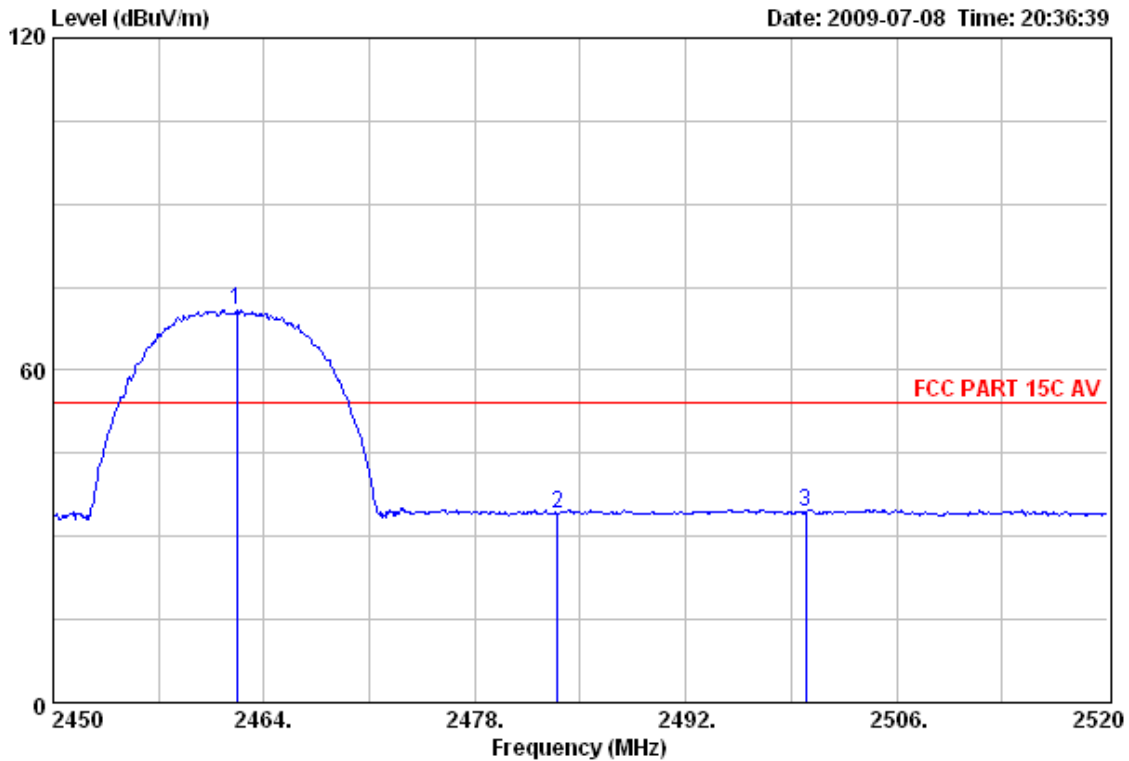


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Data: 85 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:36:39



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBUV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)					
1 2462.18	71.00	54.00	-17.00	37.21	31.56	2.23	Average	
2 2483.50	34.09	54.00	19.91	0.28	31.58	2.23	Average	
3 2500.00	34.52	54.00	19.48	0.69	31.60	2.23	Average	



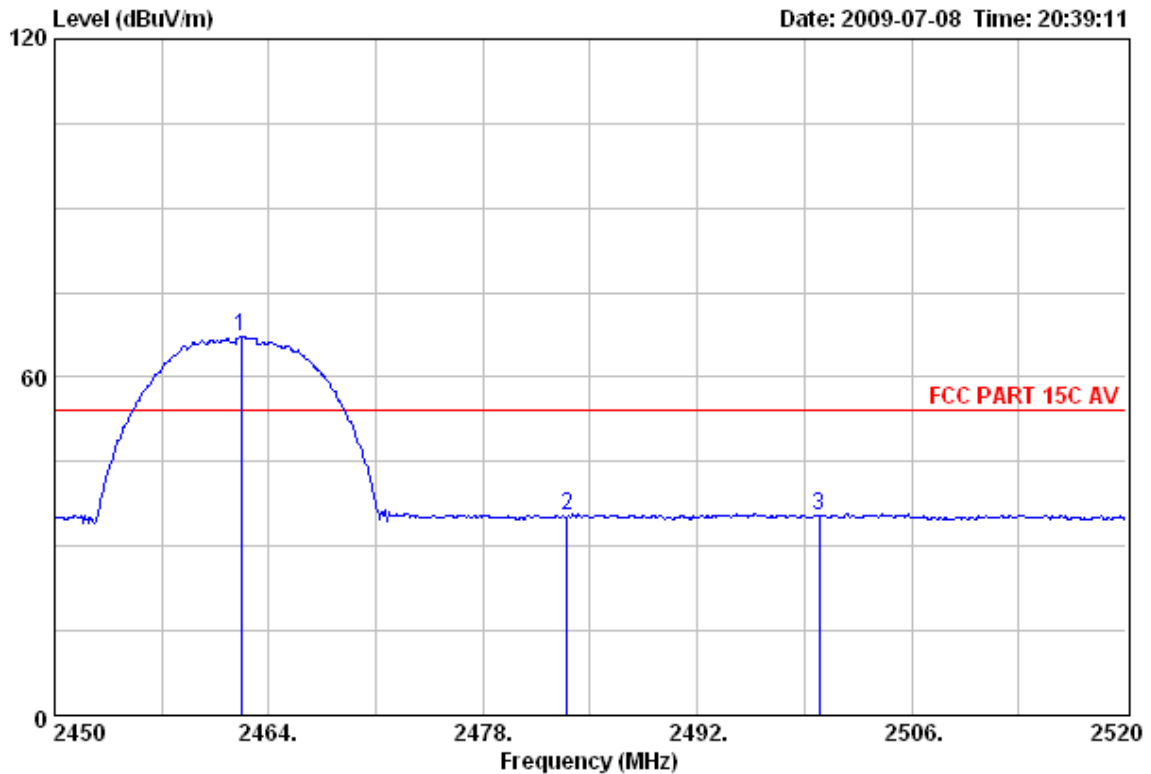
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Data: 86

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:39:11



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Emission	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
						Factor (dB/m)	Loss (dB)	
1	2462.18	67.23	54.00	-13.23	33.44	31.56	2.23	Average
2	2483.50	35.31	54.00	18.69	1.50	31.58	2.23	Average
3	2500.00	35.36	54.00	18.64	1.53	31.60	2.23	Average

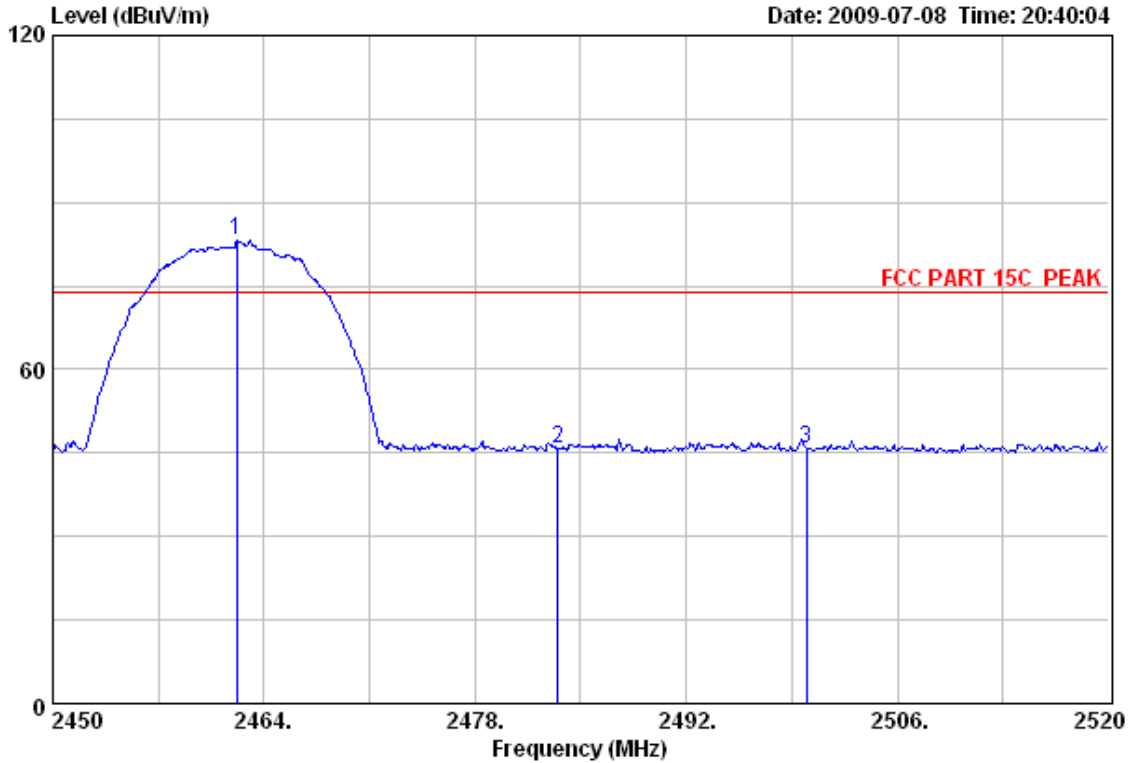


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Data: 87 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:40:04



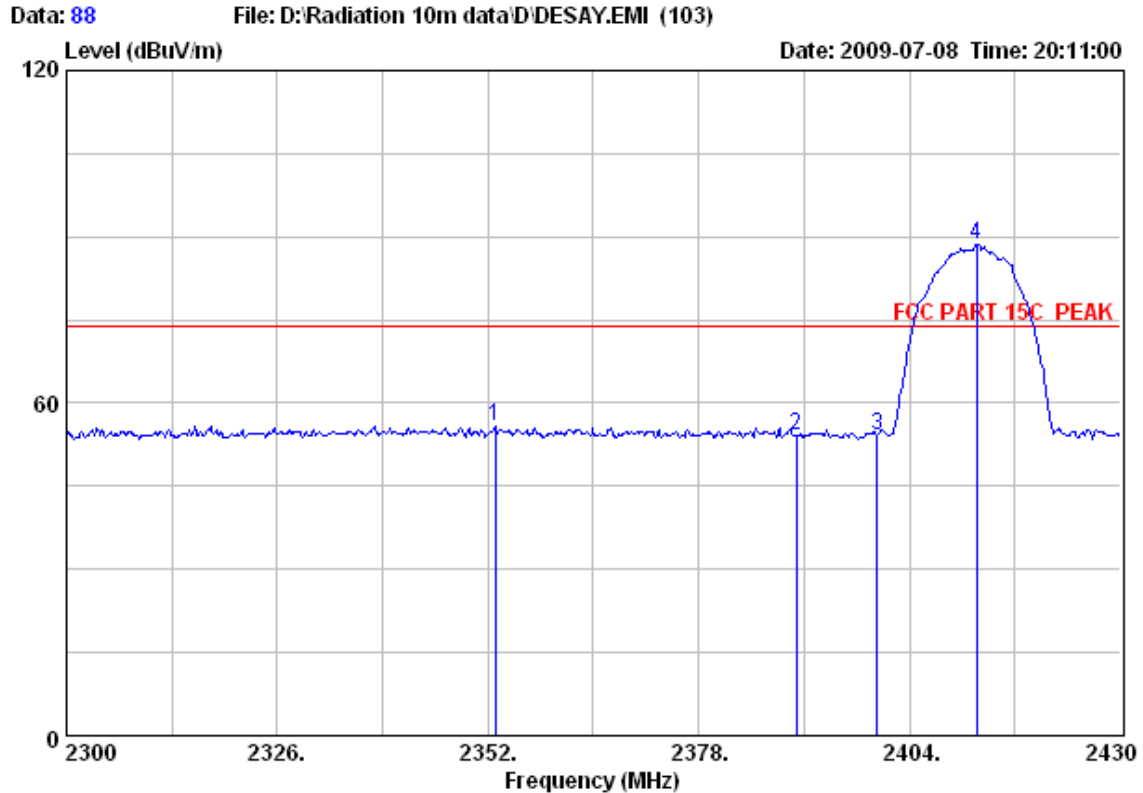
Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)			Factor (dB/m)	Loss (dB)	
1 2462.18	83.07	74.00	-9.07	49.28	31.56	2.23	Peak
2 2483.50	45.80	74.00	28.20	11.99	31.58	2.23	Peak
3 2500.00	45.87	74.00	28.13	12.04	31.60	2.23	Peak



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Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH1 2422MHz Tx Mode

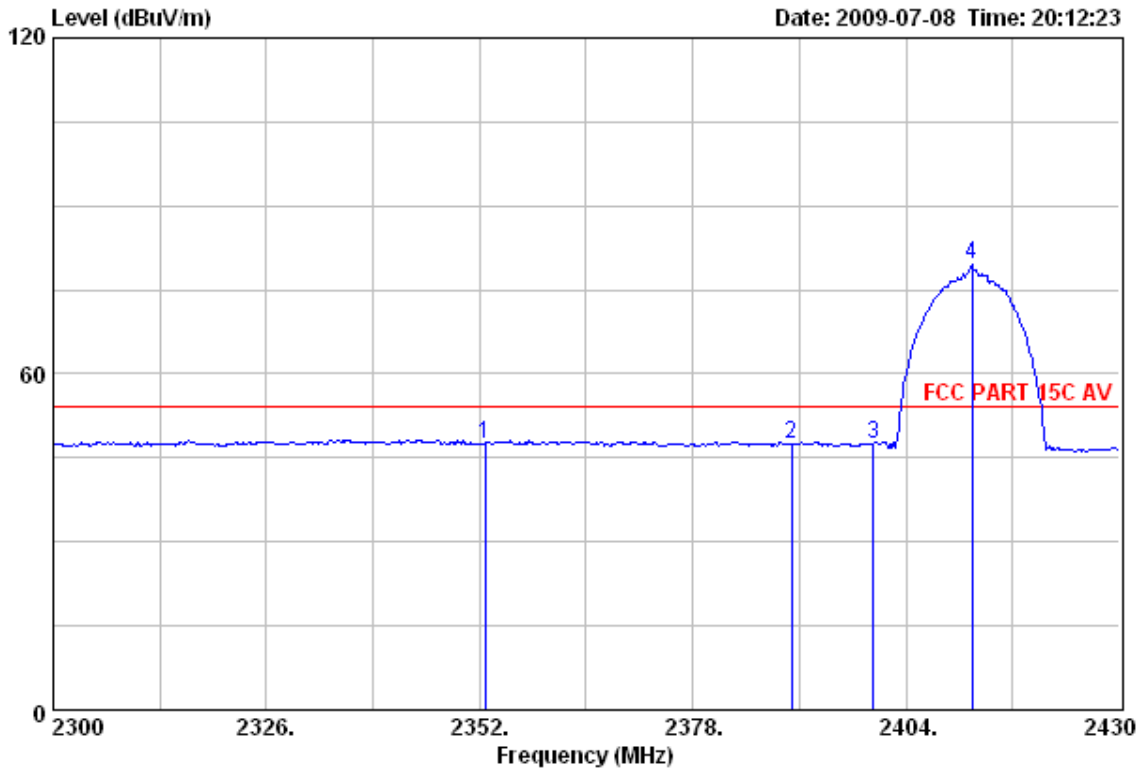
	Emission					Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1 2352.91	55.76	74.00	18.24	22.09	31.45	2.22	Peak	
2 2390.00	54.18	74.00	19.82	20.48	31.48	2.22	Peak	
3 2400.00	54.14	74.00	19.86	20.41	31.50	2.23	Peak	
4 2412.32	88.61	74.00	-14.61	54.88	31.50	2.23	Peak	



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Data: 89 File: D:\Radiation 10m data\DESAY.EMI (103)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH1 2422MHz Tx Mode

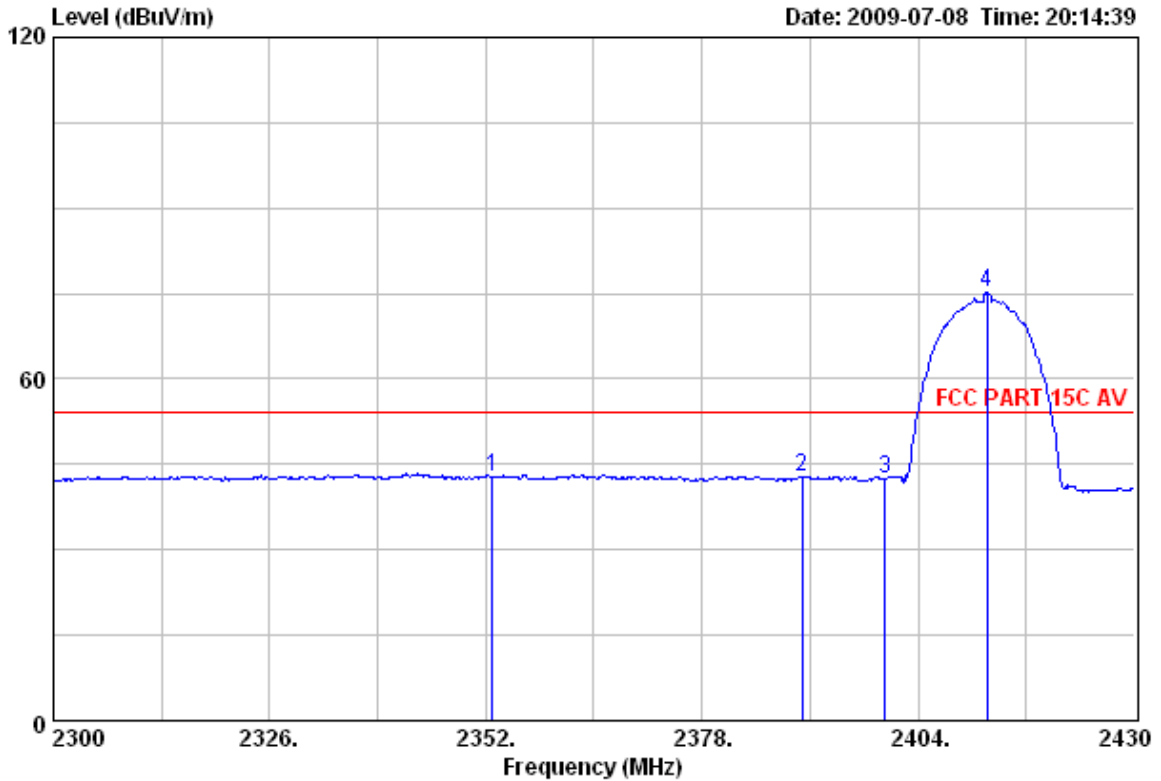
	Emission				Ant. Cable		
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.65	47.57	54.00	6.43	13.90	31.45	2.22	Average
2 2390.00	47.33	54.00	6.67	13.63	31.48	2.22	Average
3 2400.00	47.57	54.00	6.43	13.84	31.50	2.23	Average
4 2412.06	79.69	54.00	-25.69	45.96	31.50	2.23	Average



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Data: 90 File: D:\Radiation 10m data\DESAY.EMI (103) Date: 2009-07-08 Time: 20:14:39



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH1 2422MHz Tx Mode

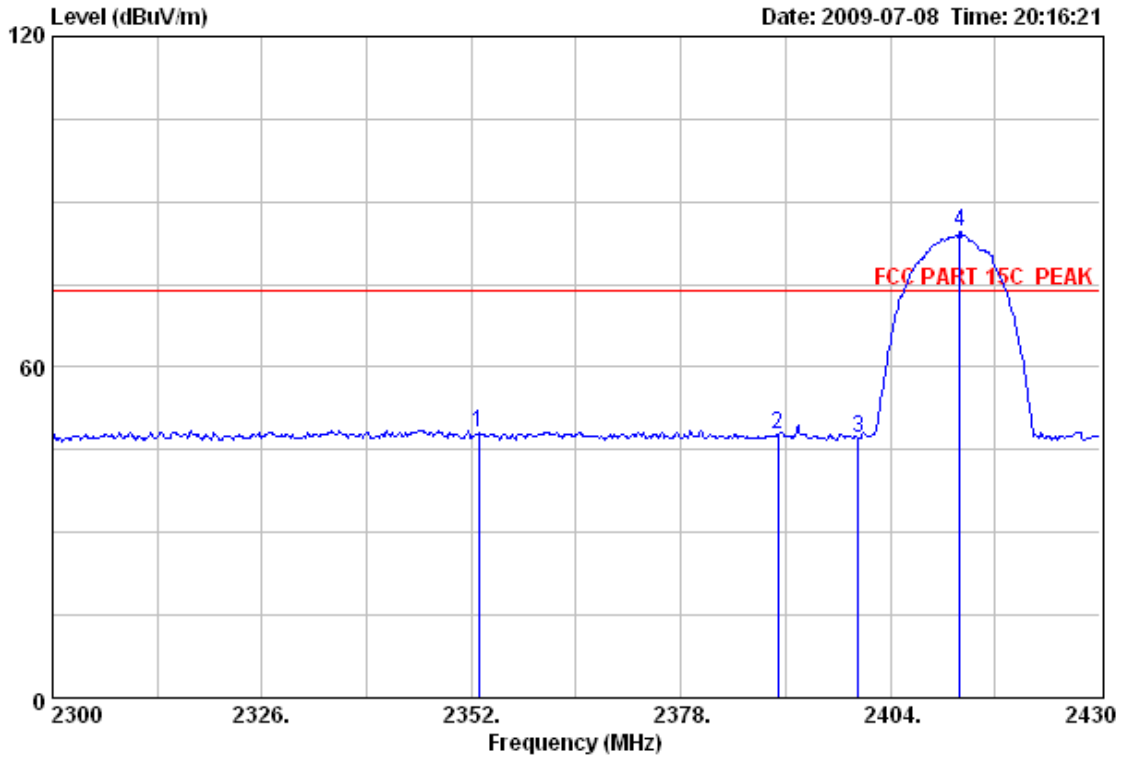
	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.78	42.75	54.00	11.25	9.08	31.45	2.22	Average
2 2390.00	42.66	54.00	11.34	8.96	31.48	2.22	Average
3 2400.00	42.52	54.00	11.48	8.79	31.50	2.23	Average
4 2412.32	75.34	54.00	-21.34	41.61	31.50	2.23	Average



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Data: 91 File: D:\Radiation 10m data\DESAY.EMI (103)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH1 2422MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2352.91	48.02	74.00	25.98	14.35	31.45	2.22	Peak	
2 2390.00	47.69	74.00	26.31	13.99	31.48	2.22	Peak	
3 2400.00	47.24	74.00	26.76	13.51	31.50	2.23	Peak	
4 2412.58	84.55	74.00	-10.55	50.82	31.50	2.23	Peak	

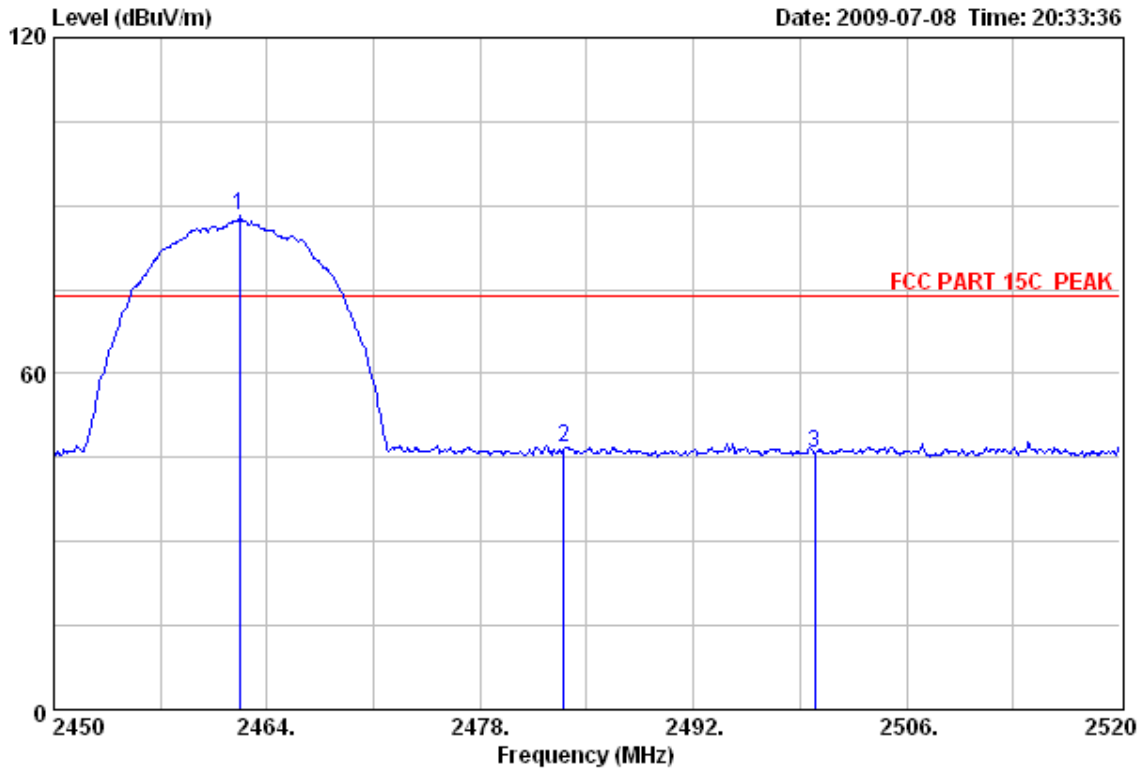


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Data: 92 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:33:36



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

	Emission			Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2462.18	88.37	74.00	-14.37	54.58	31.56	2.23	Peak
2 2483.50	46.66	74.00	27.34	12.85	31.58	2.23	Peak
3 2500.00	45.73	74.00	28.27	11.90	31.60	2.23	Peak

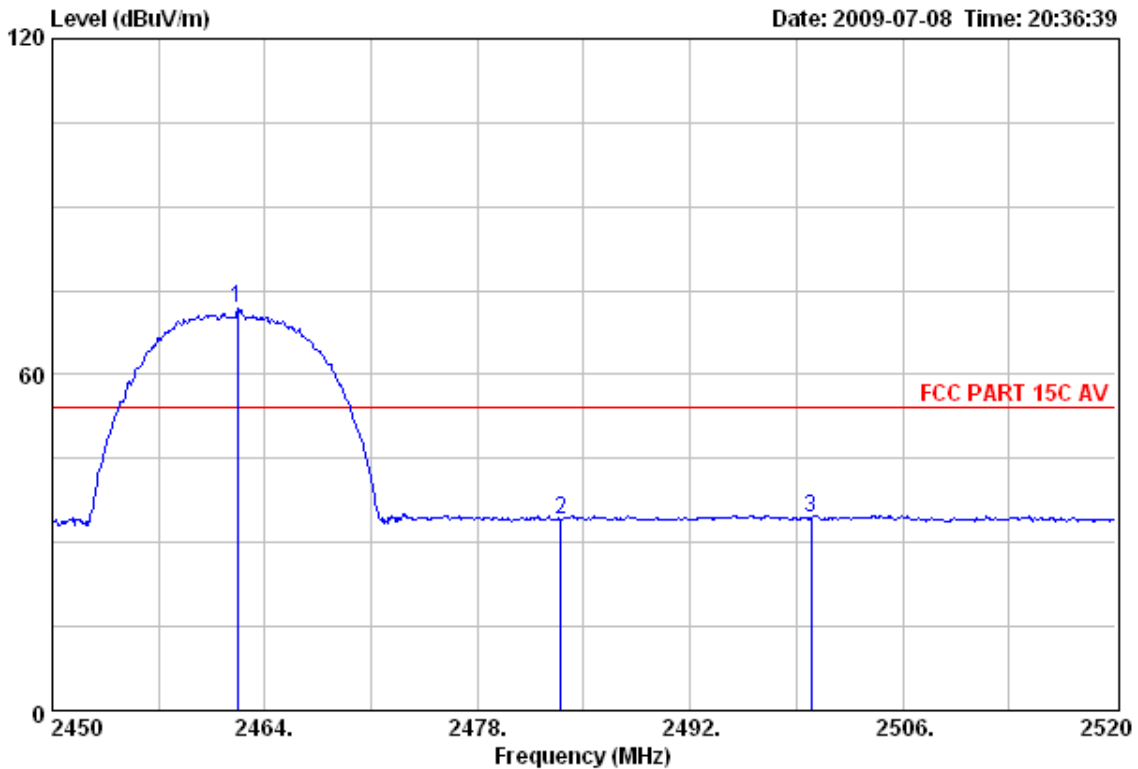


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Data: 93 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:36:39



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

Emission	Emission				Ant. Cable			Remark
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1	2462.18	72.00	54.00	-18.00	38.21	31.56	2.23	Average
2	2483.50	34.09	54.00	19.91	0.28	31.58	2.23	Average
3	2500.00	34.52	54.00	19.48	0.69	31.60	2.23	Average

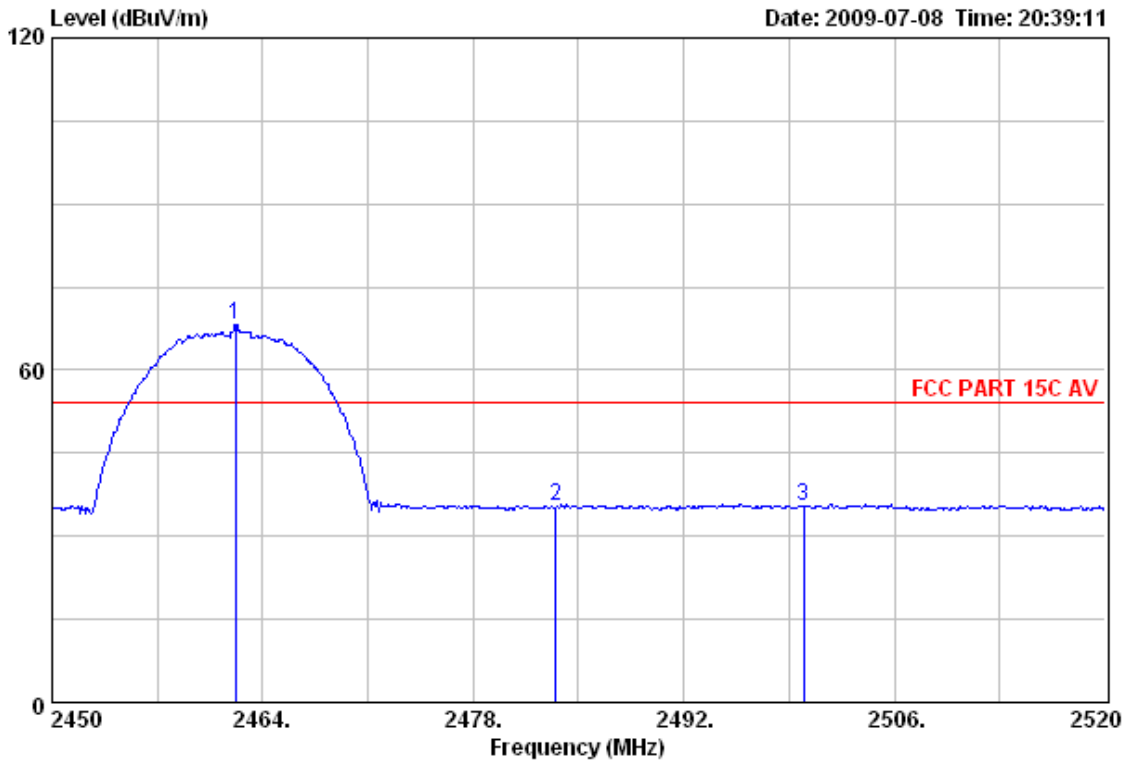


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Data: 94 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:39:11



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2462.18	68.23	54.00	-14.23	34.44	31.56	2.23	Average	
2 2483.50	35.31	54.00	18.69	1.50	31.58	2.23	Average	
3 2500.00	35.36	54.00	18.64	1.53	31.60	2.23	Average	



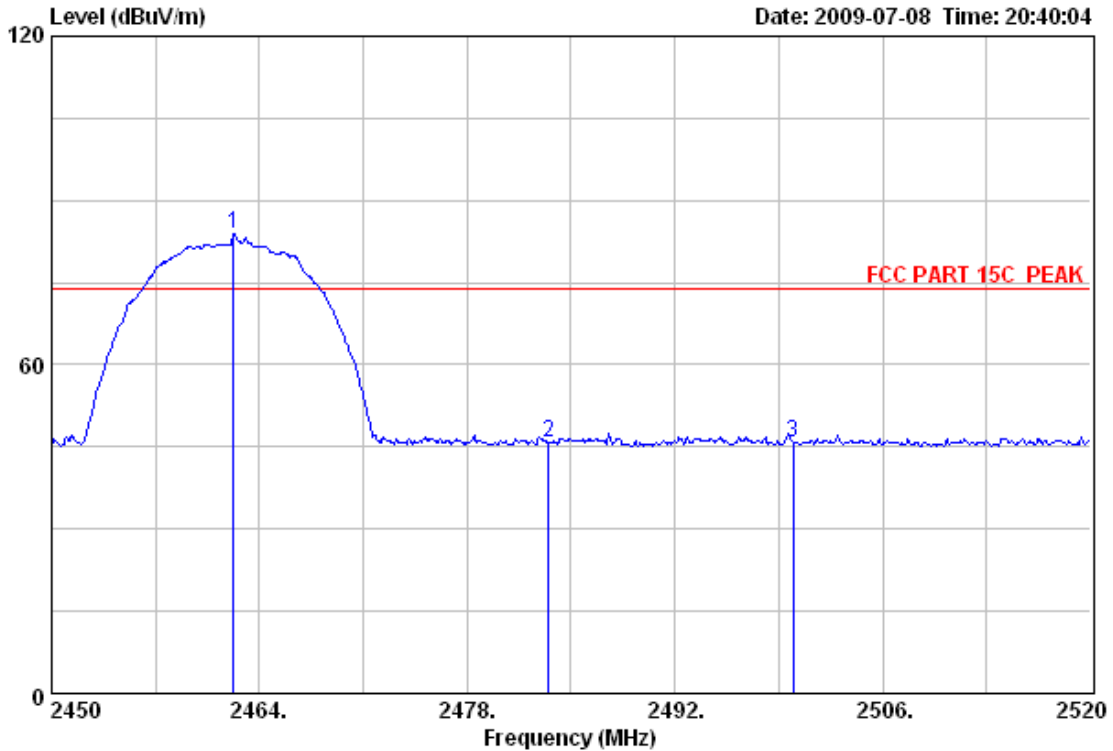
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Data: 95

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-08 Time: 20:40:04



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

	Emission				Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark	
1 2462.25	84.04	74.00	-10.04	50.25	31.56	2.23	Peak	
2 2483.50	45.80	74.00	28.20	11.99	31.58	2.23	Peak	
3 2500.00	45.87	74.00	28.13	12.04	31.60	2.23	Peak	

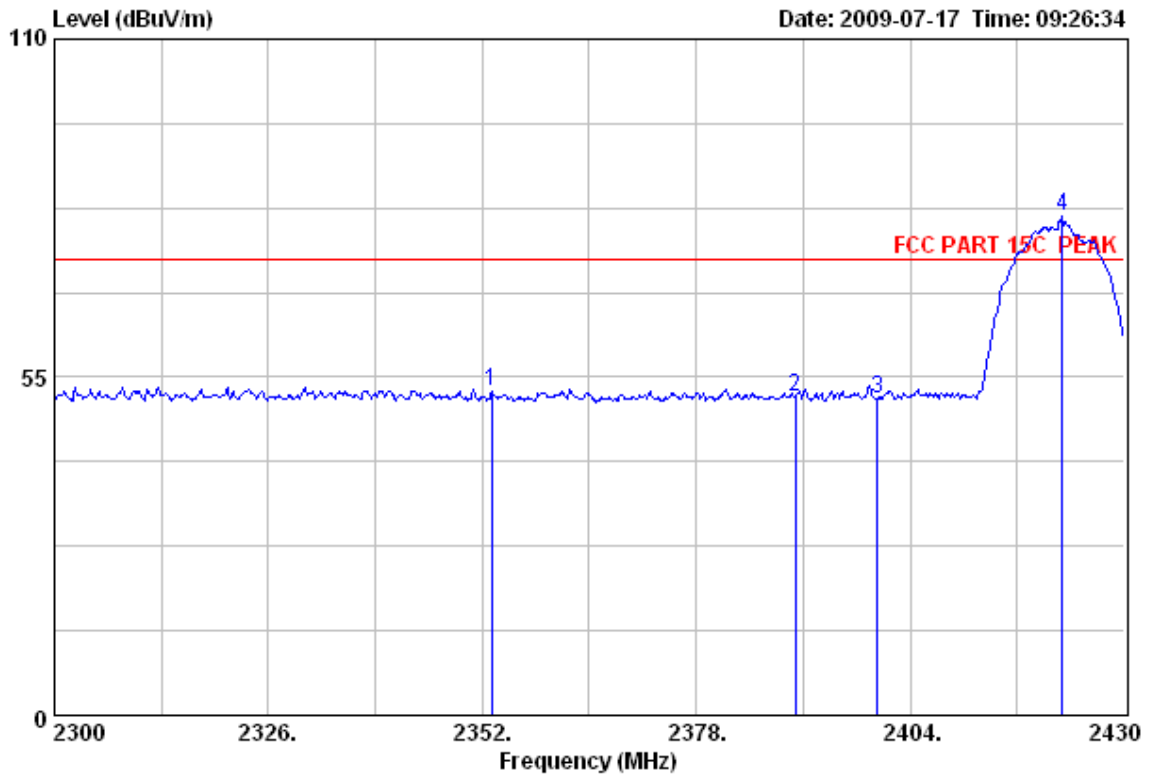


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Data: 96 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-17 Time: 09:26:34



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2353.17	52.69	74.00	21.31	21.24	31.45	0.00	Peak	
2 2390.00	51.75	74.00	22.25	20.27	31.48	0.00	Peak	
3 2400.00	51.54	74.00	22.46	20.04	31.50	0.00	Peak	
4 2422.46	81.17	74.00	-7.17	49.65	31.52	0.00	Peak	

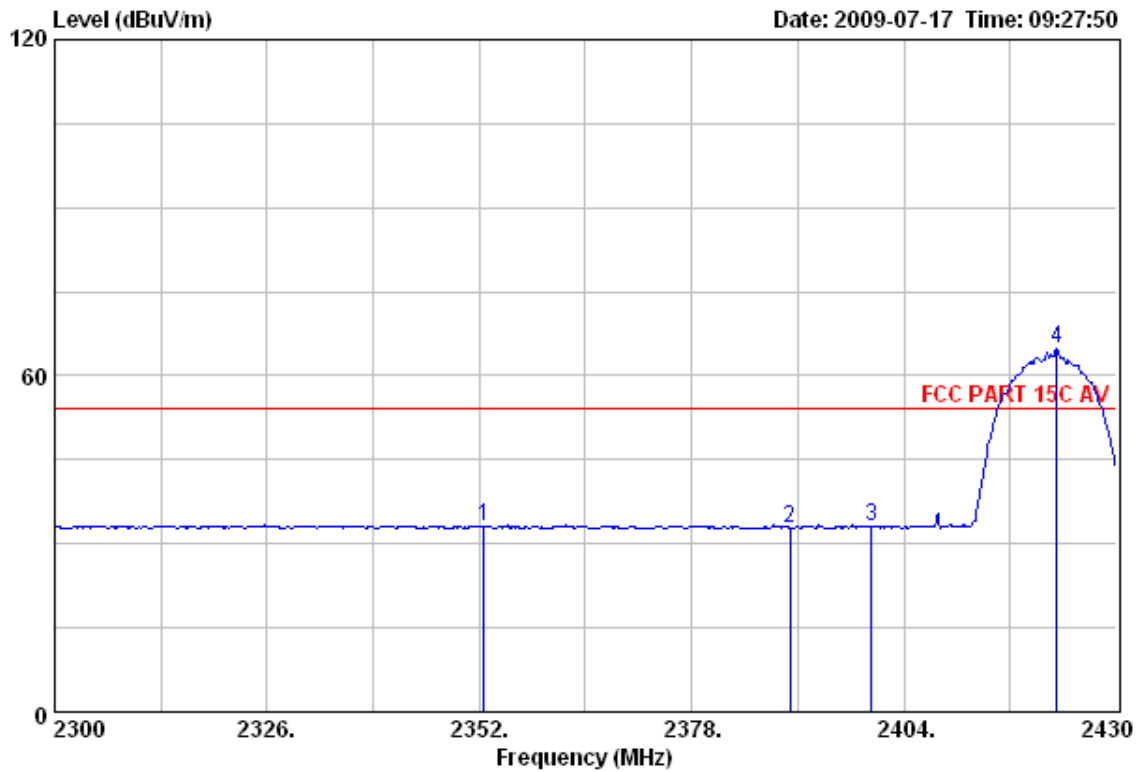


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Data: 97 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-17 Time: 09:27:50



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

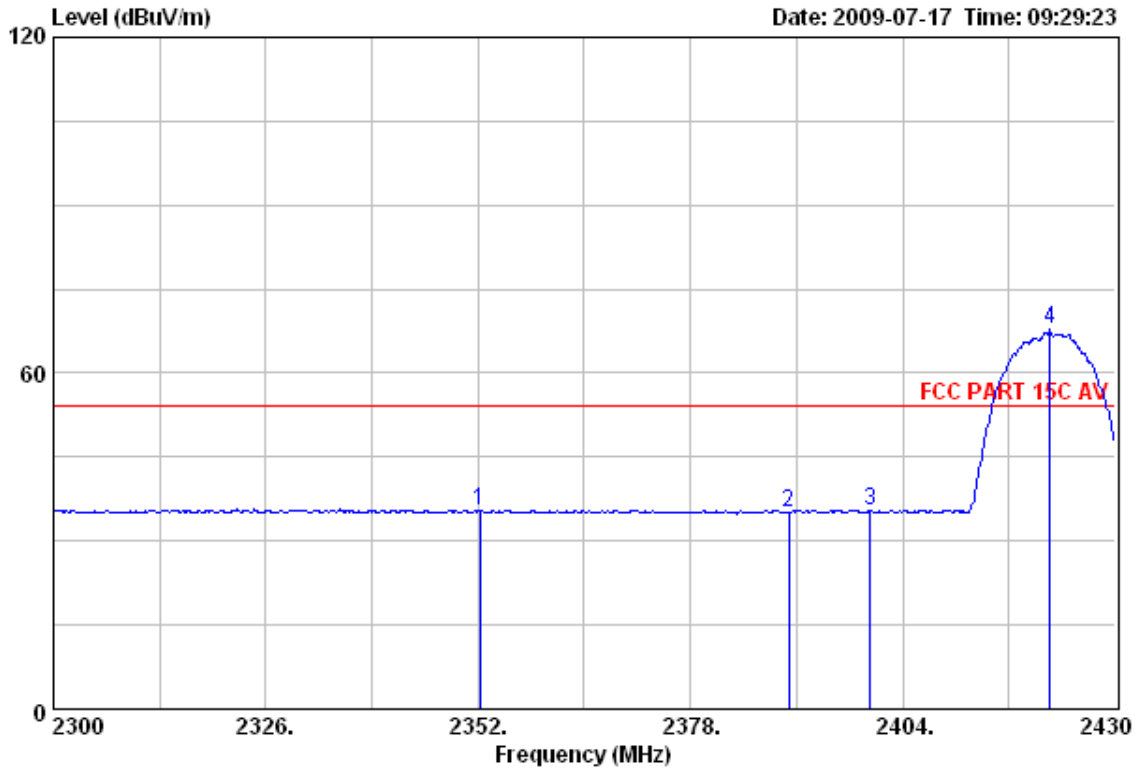
	Emission			Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.52	33.23	54.00	20.77	-0.44	31.45	2.22	Average
2 2390.00	32.92	54.00	21.08	-0.78	31.48	2.22	Average
3 2400.00	33.07	54.00	20.93	-0.66	31.50	2.23	Average
4 2422.72	64.73	54.00	-10.73	30.98	31.52	2.23	Average



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Data: 98 File: D:\Radiation 10m data\DESAY.EMI (103)



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2352.26	35.43	54.00	18.57	1.76	31.45	2.22	Average
2 2390.00	35.13	54.00	18.87	1.43	31.48	2.22	Average
3 2400.00	35.40	54.00	18.60	1.67	31.50	2.23	Average
4 2422.07	68.01	54.00	-14.01	34.26	31.52	2.23	Average



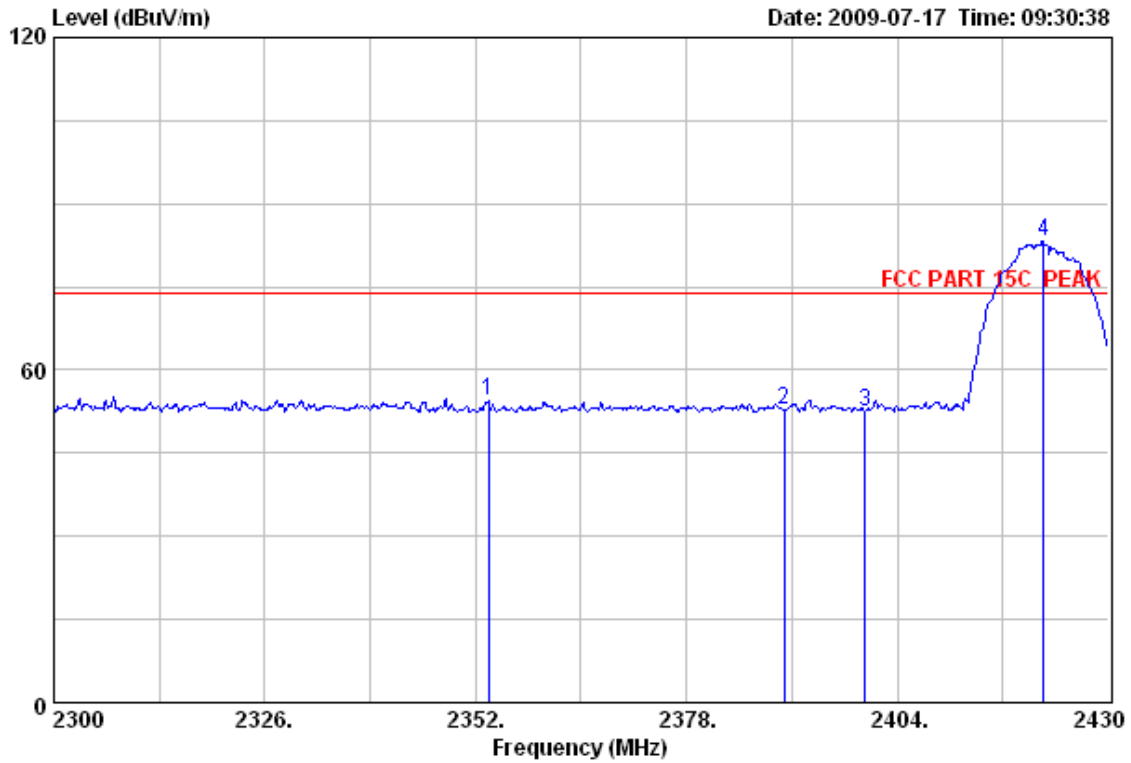
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Data: 99

File: D:\Radiation 10m data\D\DESAY.EMI (103)

Date: 2009-07-17 Time: 09:30:38



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

No.	Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1	2353.56	54.52	74.00	19.48	20.85	2.22	Peak	
2	2390.00	52.86	74.00	21.14	19.16	2.22	Peak	
3	2400.00	52.58	74.00	21.42	18.85	2.23	Peak	
4	2422.07	83.38	74.00	-9.38	49.63	2.23	Peak	



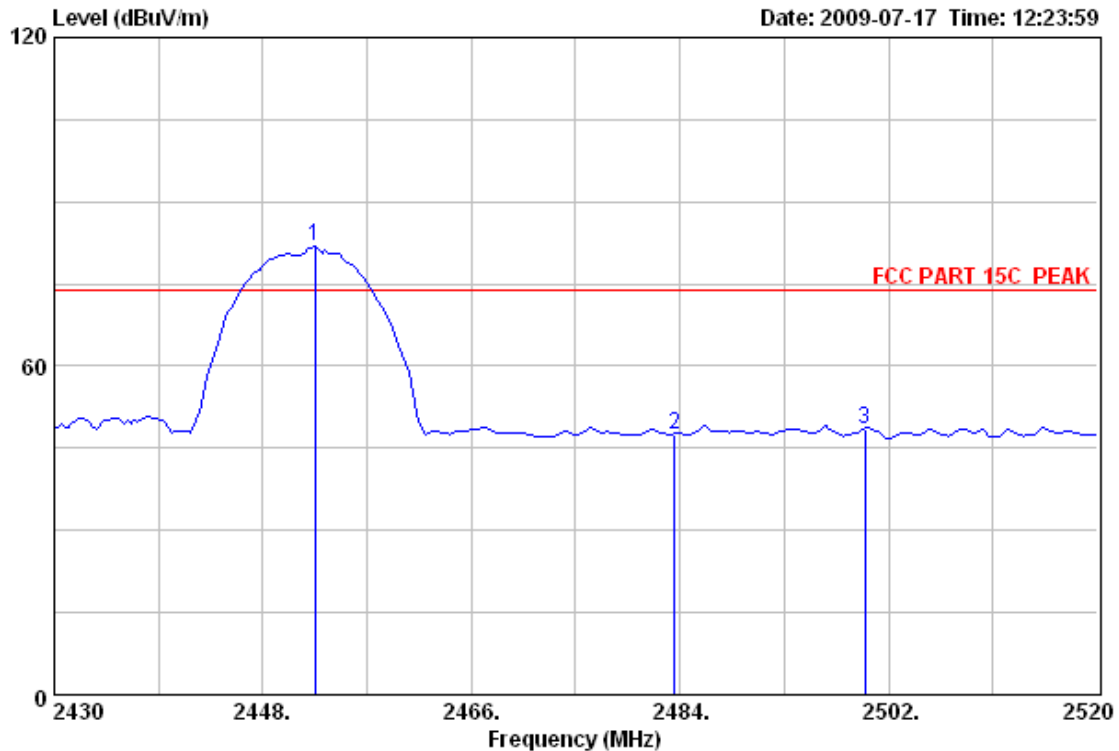
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Data: 100

File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-17 Time: 12:23:59



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

	Emission				Ant. Cable		Remark
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	
1 2452.50	81.94	74.00	-7.94	48.17	31.54	2.23	Peak
2 2483.50	47.59	74.00	26.41	13.78	31.58	2.23	Peak
3 2500.00	48.39	74.00	25.61	14.56	31.60	2.23	Peak

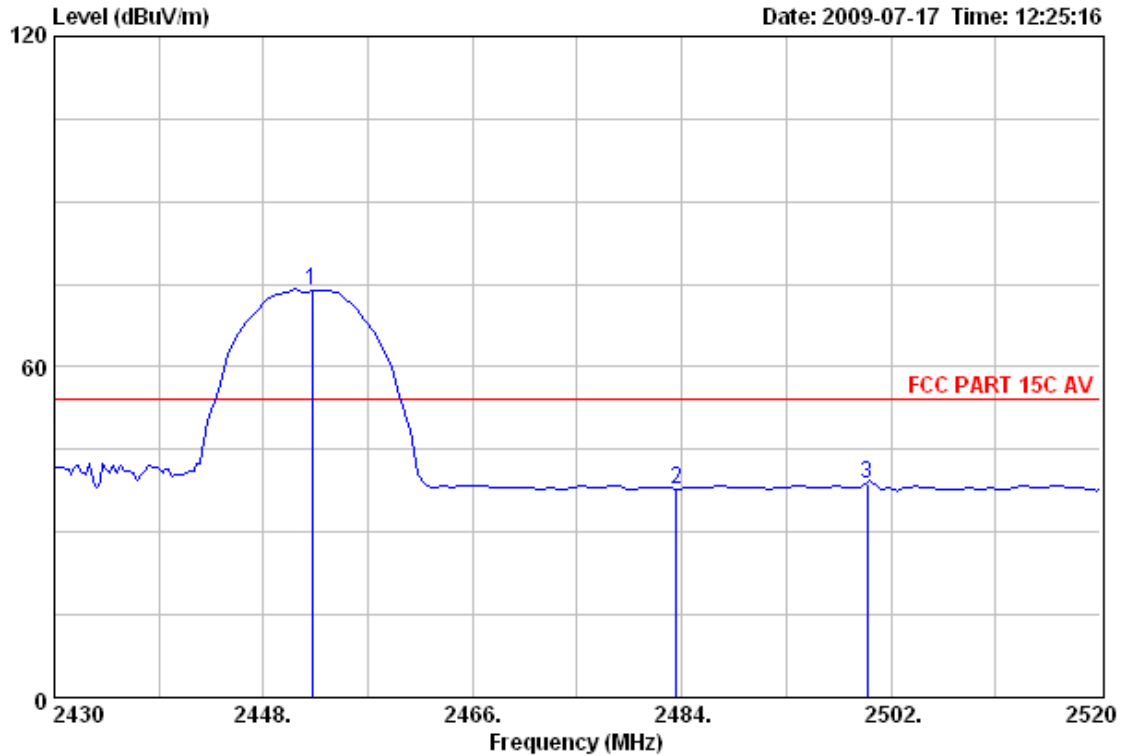


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Data: 101 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-17 Time: 12:25:16



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

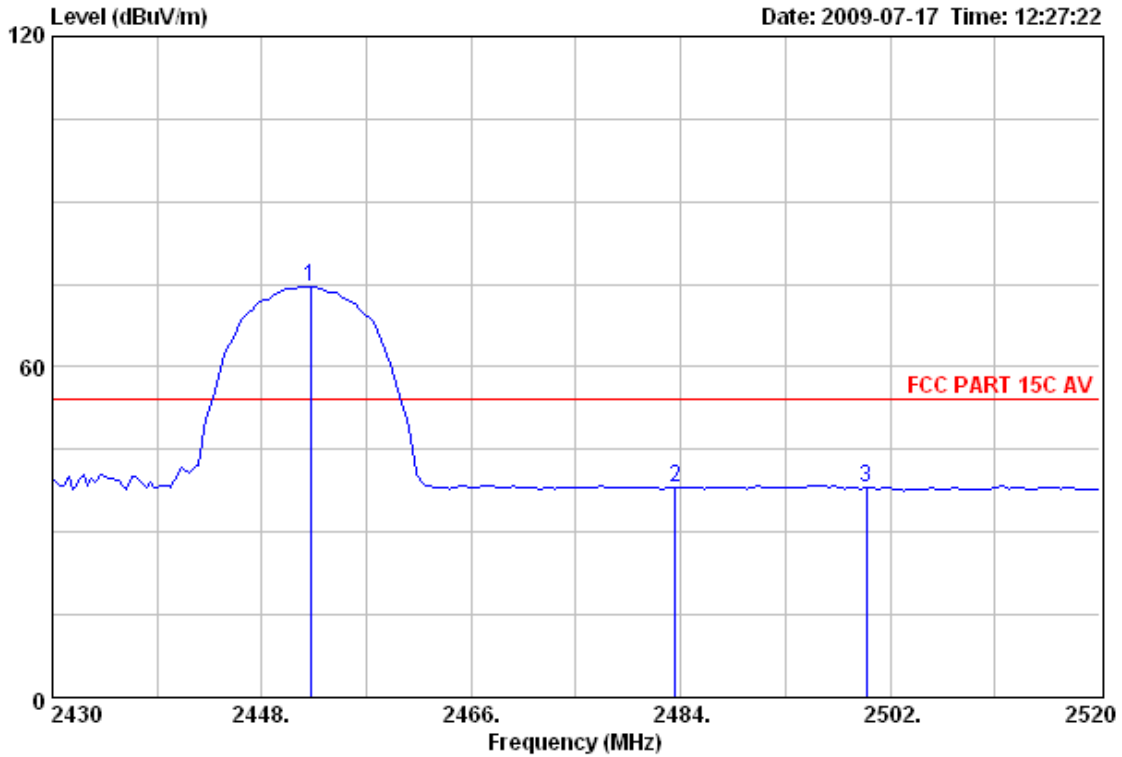
Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2452.20	74.02	54.00	-20.02	40.25	31.54	2.23	Average
2 2483.50	37.92	54.00	16.08	4.11	31.58	2.23	Average
3 2500.00	38.84	54.00	15.16	5.01	31.60	2.23	Average



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Data: 102 File: D:\Radiation 10m data\D\DESAY.EMI (103) Date: 2009-07-17 Time: 12:27:22



Test Site : 10m Chamber
 Limit : FCC PART 15C AV
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2452.20	74.54	54.00	-20.54	40.77	31.54	2.23	Average
2 2483.50	38.08	54.00	15.92	4.27	31.58	2.23	Average
3 2500.00	37.99	54.00	16.01	4.16	31.60	2.23	Average

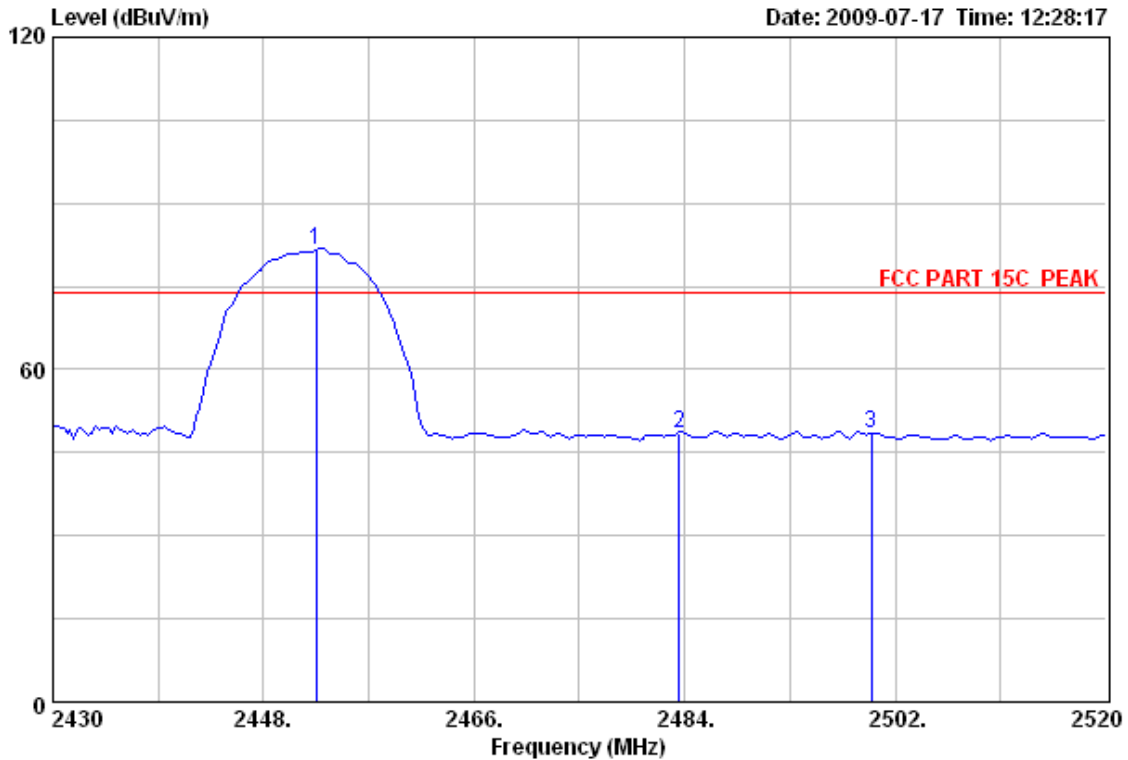


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Data: 103 File: D:\Radiation 10m data\DESAY.EMI (103)

Date: 2009-07-17 Time: 12:28:17



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2452.50	81.56	74.00	-7.56	47.79	31.54	2.23	Peak
2 2483.50	48.40	74.00	25.60	14.59	31.58	2.23	Peak
3 2500.00	48.40	74.00	25.60	14.57	31.60	2.23	Peak



4.5. POWER SPECTRAL DENSITY TEST

4.5.1. Test procedure

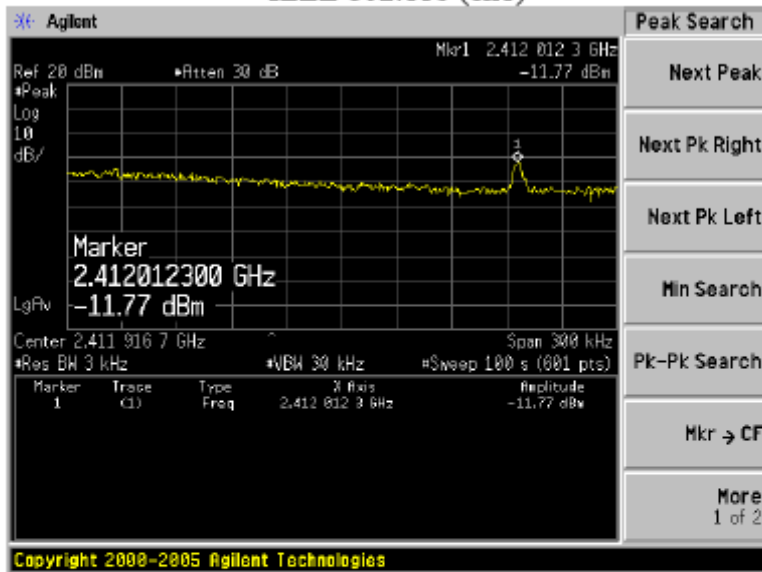
The transmitter output was connected to a spectrum analyzer , The power density was measured by spectrum analyzer with 3 KHz RBW and 30KHz VBW, sweep time=span/3KHz.

4.5.2. Test result

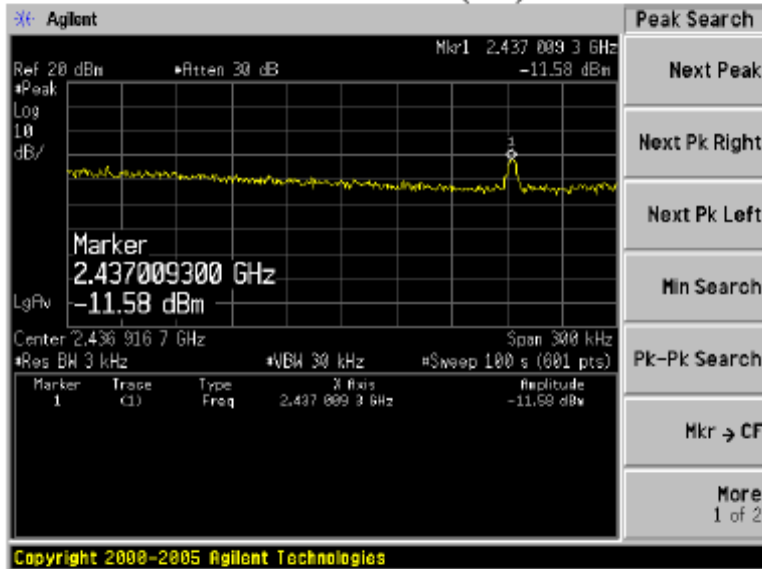
PASS.

Test CH	11b,11g,11n HT20	CH1:2412MHz CH6:2437MHz CH11:2462MHz							
Test CH	11n HT40	CH1:2422MHz CH4:2437MHz CH7:2452MHz							
Mode	CH	Chain1		Chain2		Chain3		Result	
		Read (dBm)	Level (dBm)	Read (dBm)	Level (dBm)	Read (dBm)	Level (dBm)	Total Power (dBm)	Limit
11b	CH1	-11.77	-11.17	-11.99	-11.39	-12.95	-12.35	-6.84	8.00
	CH6	-11.58	-10.98	-12.48	-11.88	-12.76	-12.16	-6.87	8.00
	CH11	-11.59	-10.99	-10.49	-9.89	-12.81	-12.21	-6.16	8.00
11g	CH1	-18.63	-18.03	-19.44	-18.84	-20.25	-19.65	-14.02	8.00
	CH6	-19.19	-18.59	-19.68	-19.08	-20.33	-19.73	-14.34	8.00
	CH11	-19.32	-18.72	-17.01	-16.41	-20.32	-19.72	-13.28	8.00
11n HT20	CH1	-19.55	-18.95	-20.18	-19.58	-20.45	-19.85	-14.67	8.00
	CH6	-20.44	-19.84	-19.98	-19.38	-20.37	-19.77	-14.89	8.00
	CH11	-19.94	-19.34	-20.76	-20.16	-20.08	-19.48	-14.87	8.00
11n HT40	CH1	-24.45	-23.85	-23.12	-22.52	-19.52	-18.92	-16.47	8.00
	CH4	-23.45	-22.85	-22.37	-21.77	-20.40	-19.80	-16.51	8.00
	CH7	-24.70	-24.10	-22.61	-22.01	-20.52	-19.92	-16.91	8.00
Note1:According Exploratory test, These data rate have the maximum output power									
Note2:Level=Read+ cable loss Total power=Chain1 Level +Chain2 Level+Chain3 Level(Linear)									

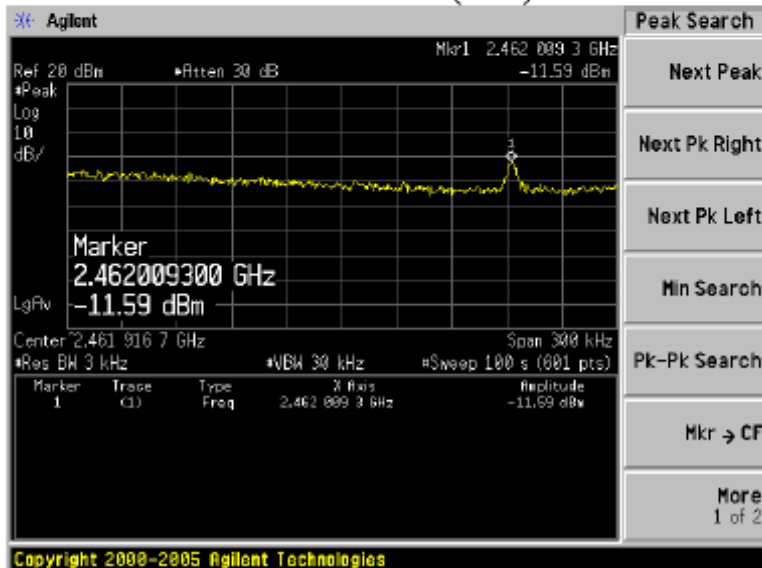
CHAIN1:
IEEE 802.11b (ch1)



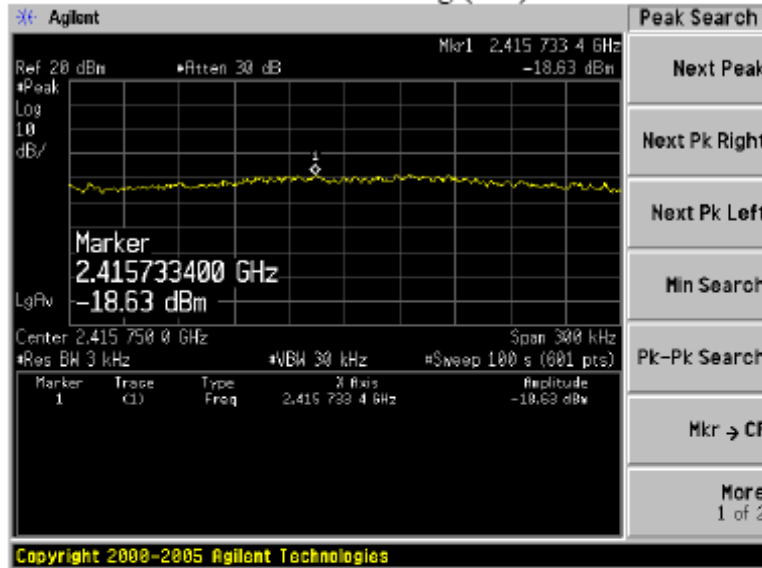
IEEE 802.11b (ch6)



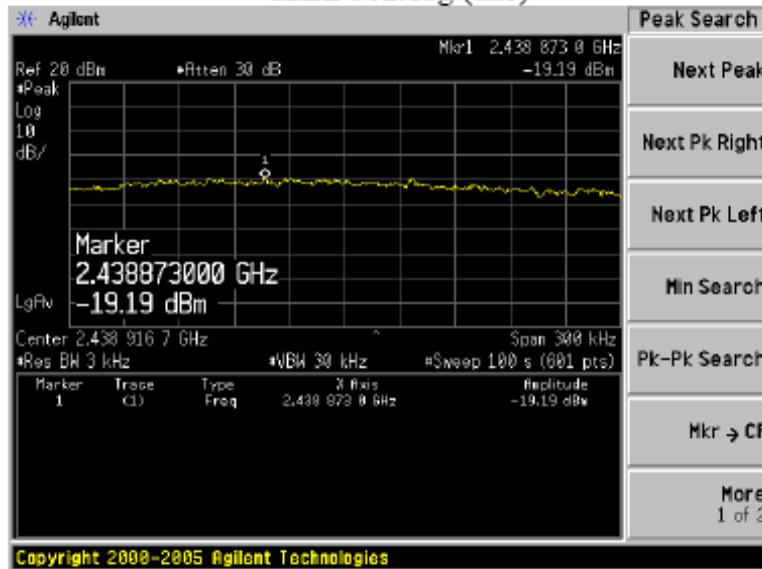
IEEE 802.11b (ch11)



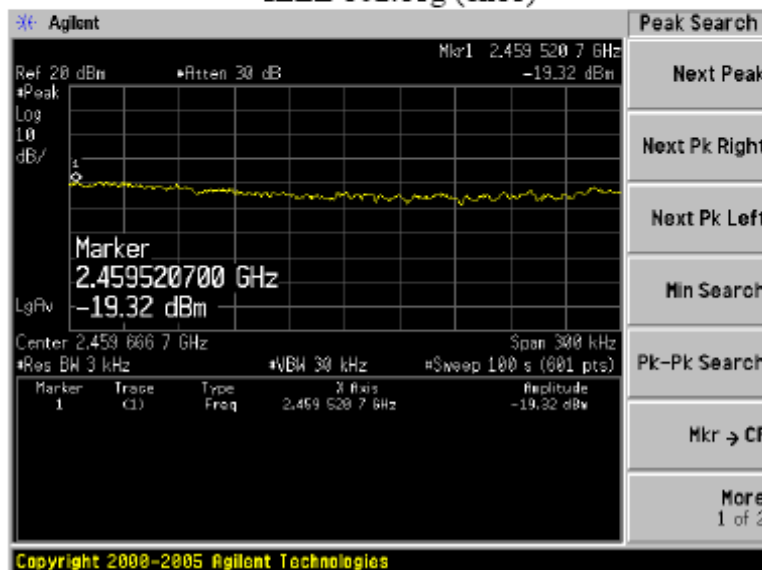
IEEE 802.11g (ch1)



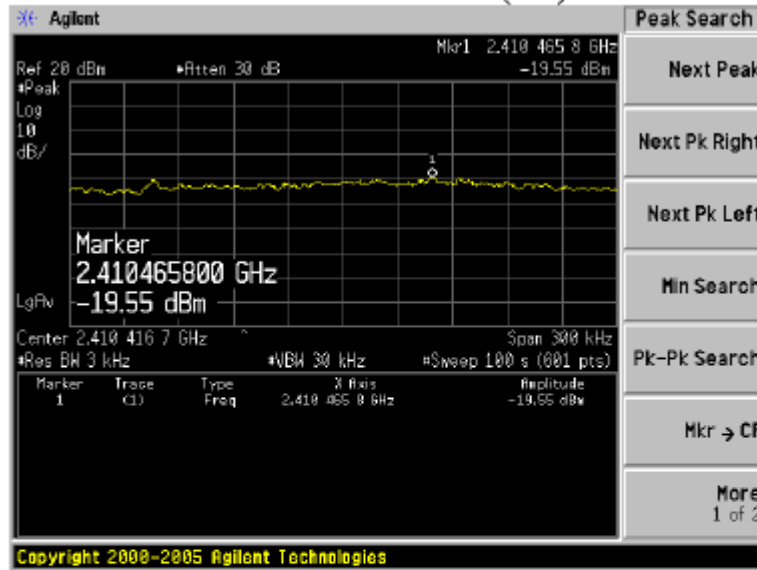
IEEE 802.11g (ch6)



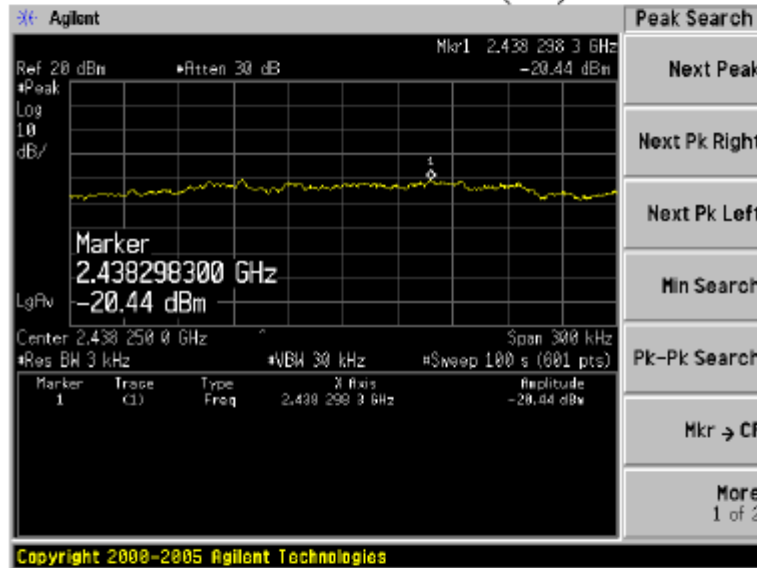
IEEE 802.11g (ch11)



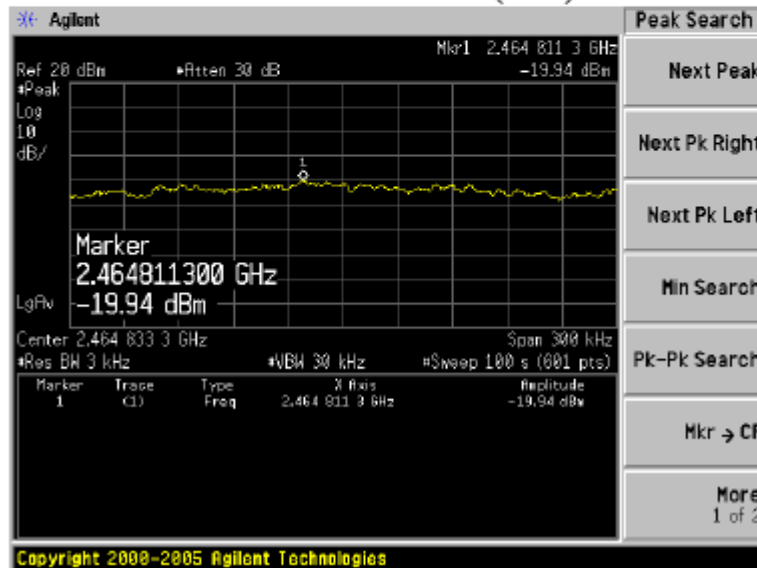
IEEE 802.11n HT20 (ch1)



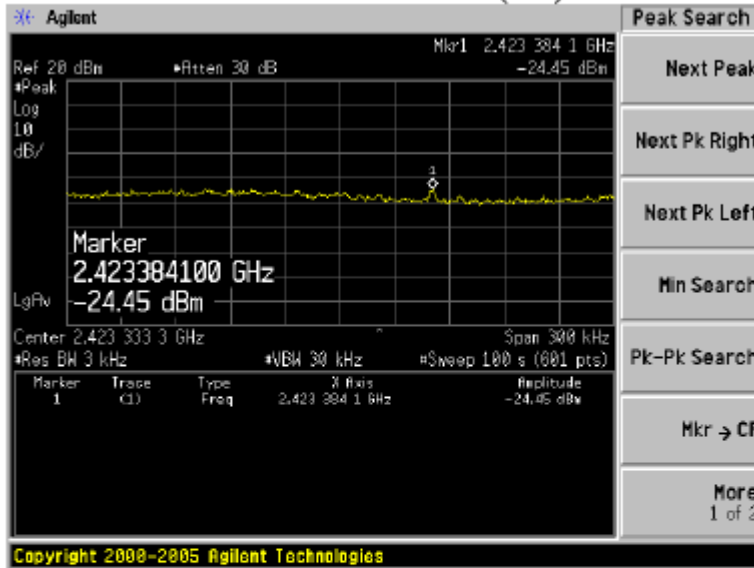
IEEE 802.11n HT20 (ch6)



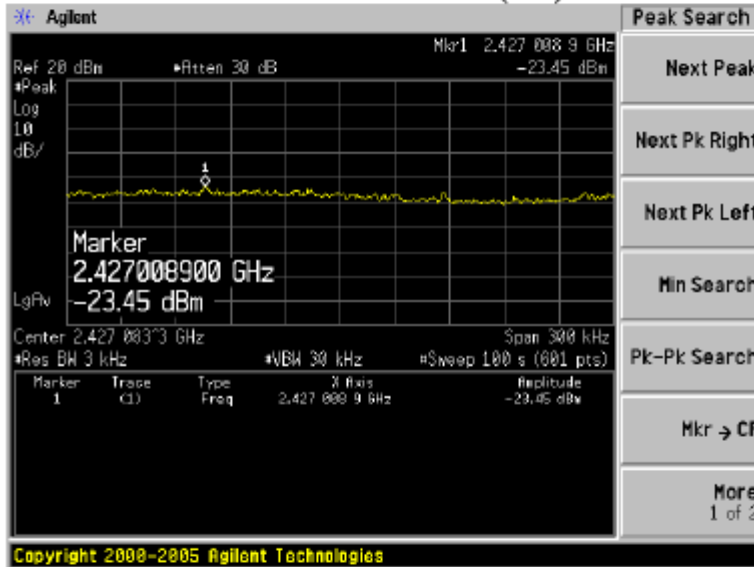
IEEE 802.11n HT20 (ch11)



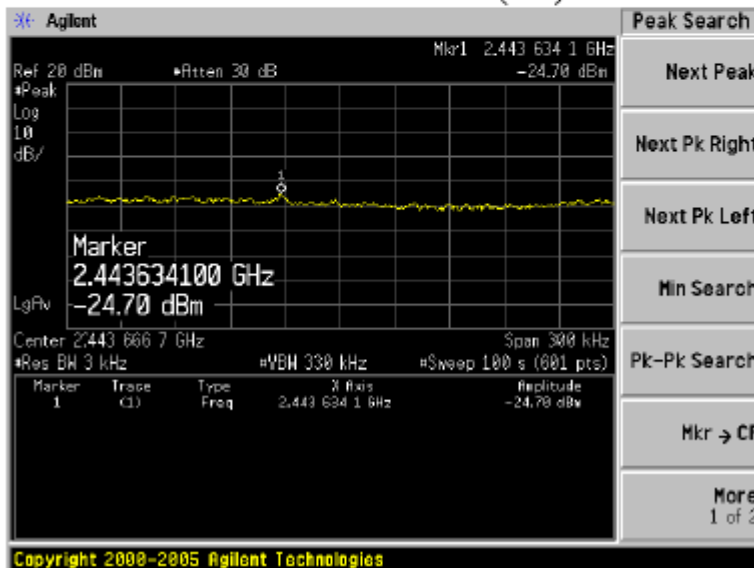
IEEE 802.11n HT40 (ch1)



IEEE 802.11n HT40 (ch4)



IEEE 802.11n HT40 (ch7)



4.6.MPE ESTIMATION

4.6.1. Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm ²)	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm ²)	Averaging time (minutes)
2412	0.6	30
2437	0.61	30
2462	0.62	30

Note: F = Frequency in MHz

4.6.2. Estimation Result

Mode	CH	Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	MPE estimation result(mW/cm ²) at 20cm
IEEE802.11b	CH1:2412MHz	20.27	106.41	2	0.03
	CH6:2437MHz	20.38	109.14	2	0.03
	CH11:2462MHz	20.54	113.24	2	0.04
IEEE802.11g	CH1:2412MHz	22.38	172.98	2	0.05
	CH6:2437MHz	22.53	179.06	2	0.06
	CH11:2462MHz	22.56	180.3	2	0.06
IEEE802.11n HT20	CH1:2412MHz	22.69	185.78	2	0.06
	CH6:2437MHz	22.65	184.08	2	0.06
	CH11:2462MHz	22.6	181.97	2	0.06
IEEE802.11n HT40	CH1:2422MHz	24.28	267.92	2	0.08
	CH4:2437MHz	24.07	255.27	2	0.08
	CH7:2452MHz	24.01	251.77	2	0.08

4.6.3. MPE Calculation Method

$$E(\text{V/m})=(30*\text{P}*G)^{0.5}/d$$

E=Electric Field(V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d=Separation distance between radiator and human body (m)

4.7.ANTENNA REQUIREMENT

4.7.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2. ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is antenna with SMA-B connector (see EUT photo) that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is only 2dBi.

4.8. Radiated Emission

4.8.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.247(d)

4.8.2. 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.

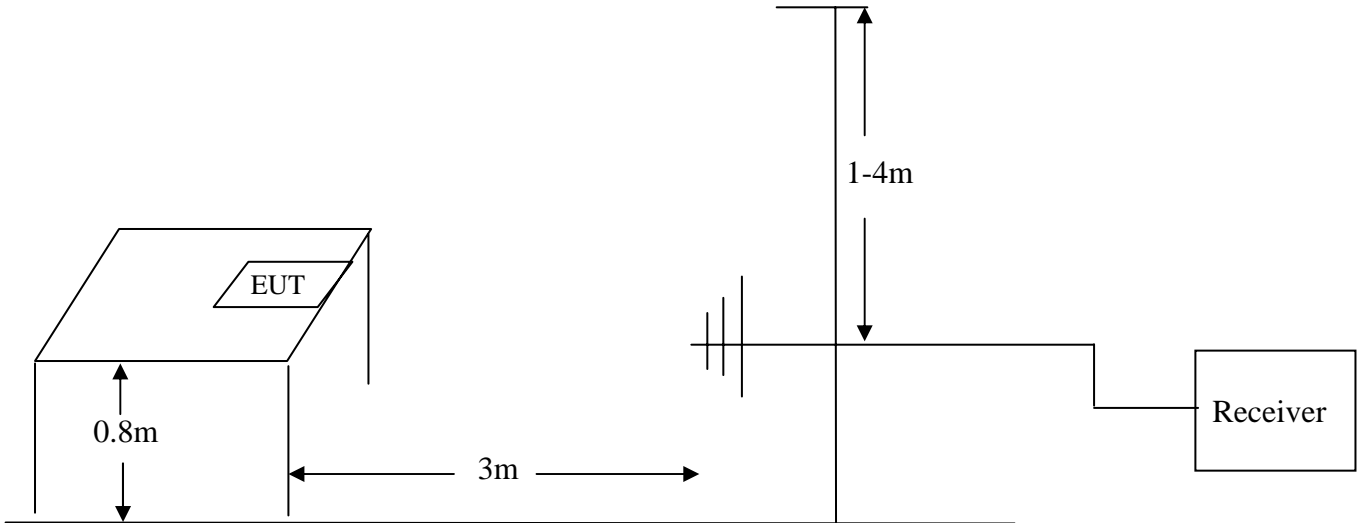
For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than $1/T$, so the video bandwidth is 10Hz.

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

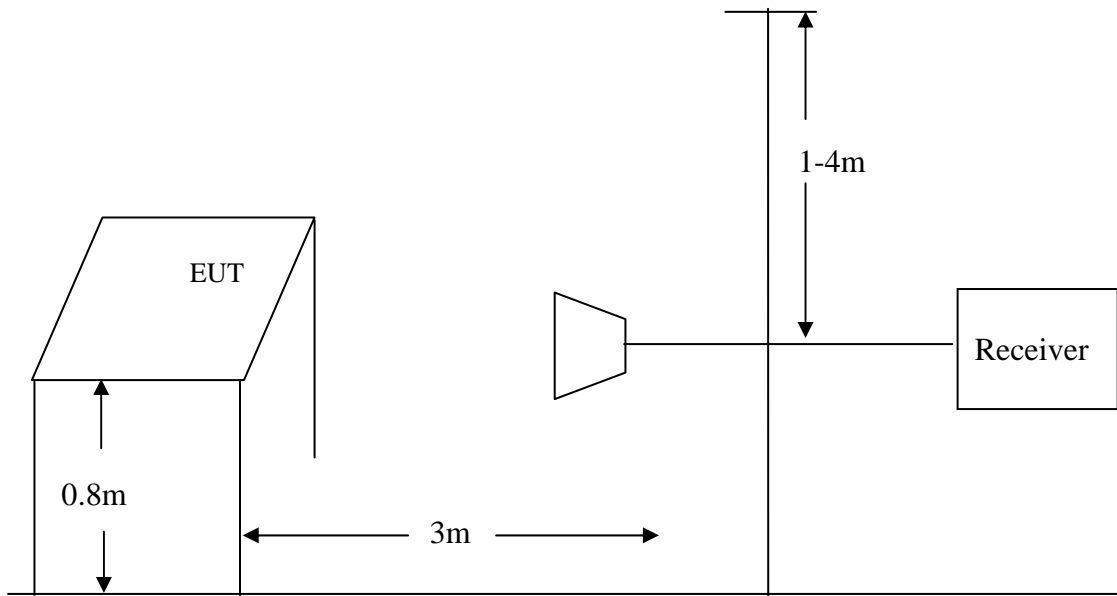
The EUT was tested in Chamber Site.

4.8.3. Test Setup Diagram

Frequency range: 30MHz-1000MHz



Frequency range: 1 GHz -18GHz

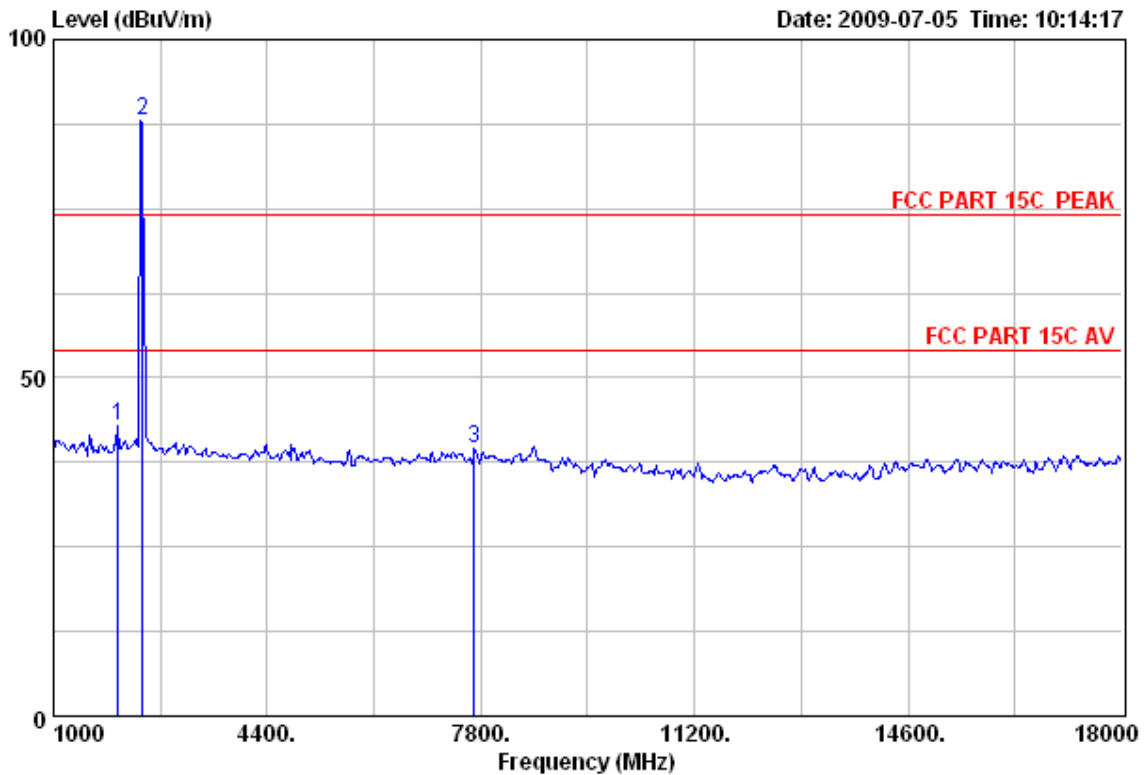


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Data: 48 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:14:17



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2020.00	42.83	74.00	31.17	9.51	31.12	2.20	Peak
2 2412.00	88.06	74.00	-14.06	54.33	31.50	2.23	Peak
3 7698.00	39.63	74.00	34.37	0.19	36.88	2.56	Peak

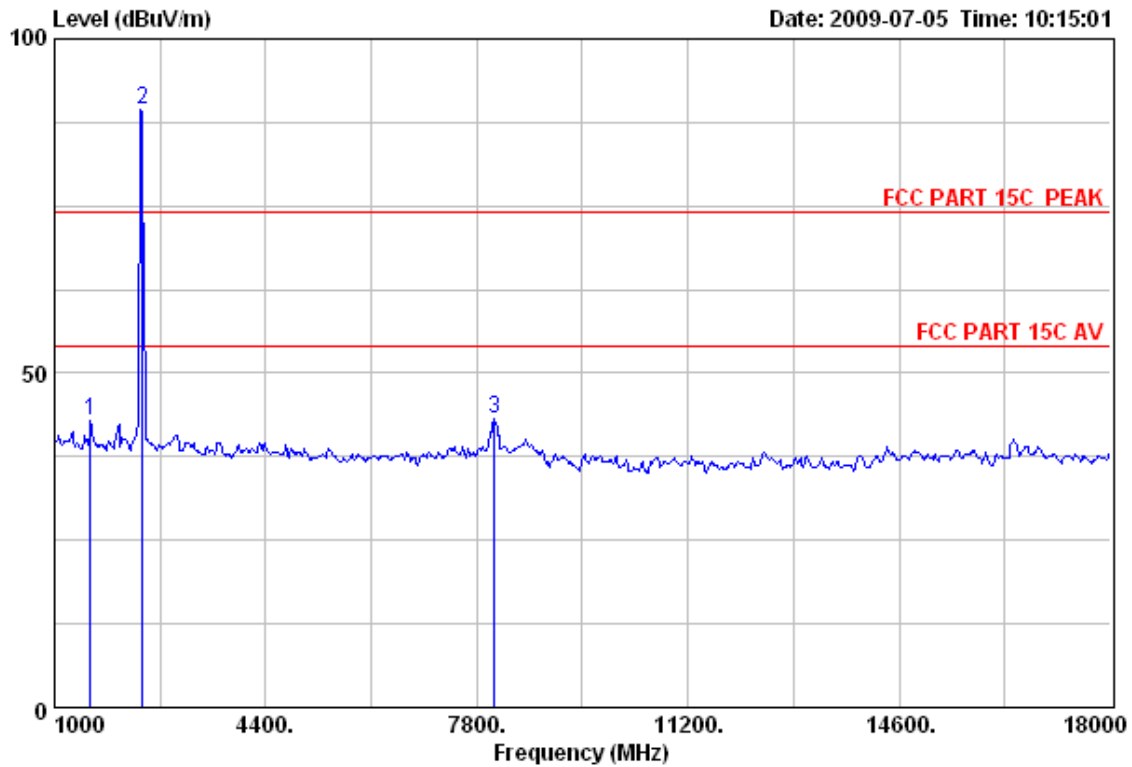


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Data: 49 File: D:\Radiation 10m data\D\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:15:01



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH1 2412MHz Tx Mode

	Emission			Ant. Cable			
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 1578.00	43.00	74.00	31.00	12.64	28.20	2.16	Peak
2 2412.00	89.41	74.00	-15.41	55.68	31.50	2.23	Peak
3 8089.00	43.18	74.00	30.82	3.62	36.98	2.58	Peak



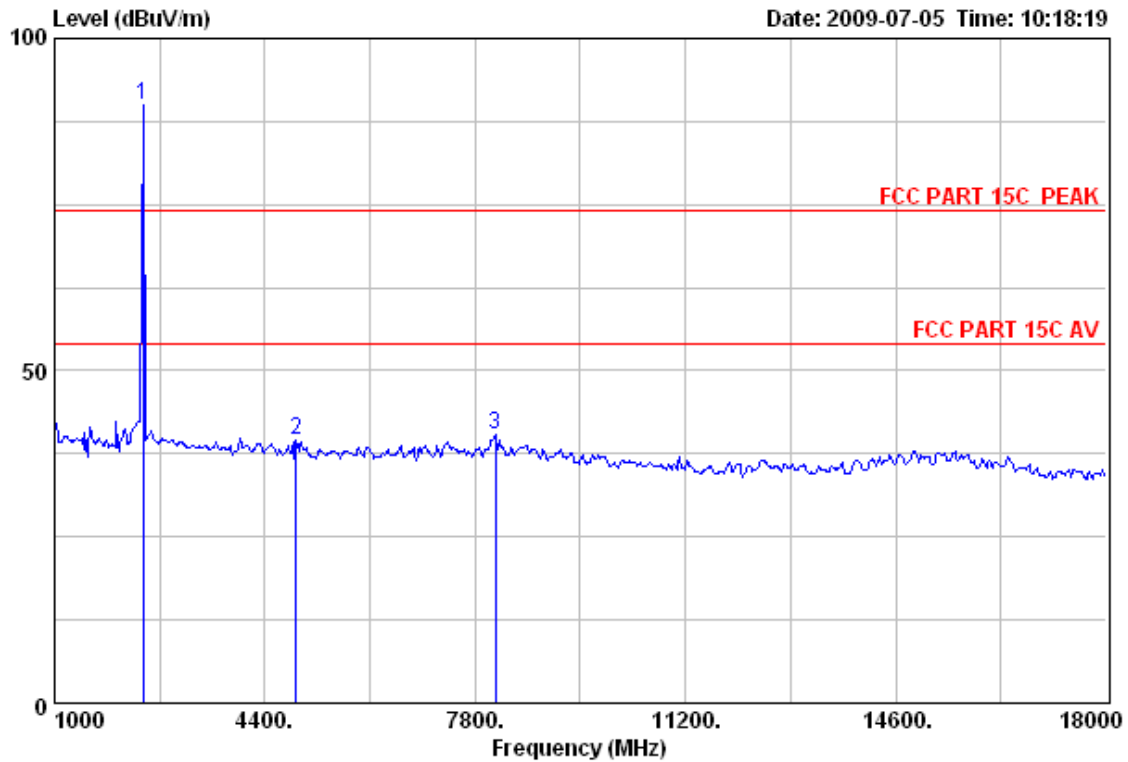
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Data: 50

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:18:19



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH6 2437MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2437.00	89.84	74.00	-15.84	56.07	31.54	2.23	Peak
2 4910.00	39.61	74.00	34.39	2.59	34.64	2.38	Peak
3 8123.00	40.27	74.00	33.73	0.72	36.97	2.58	Peak



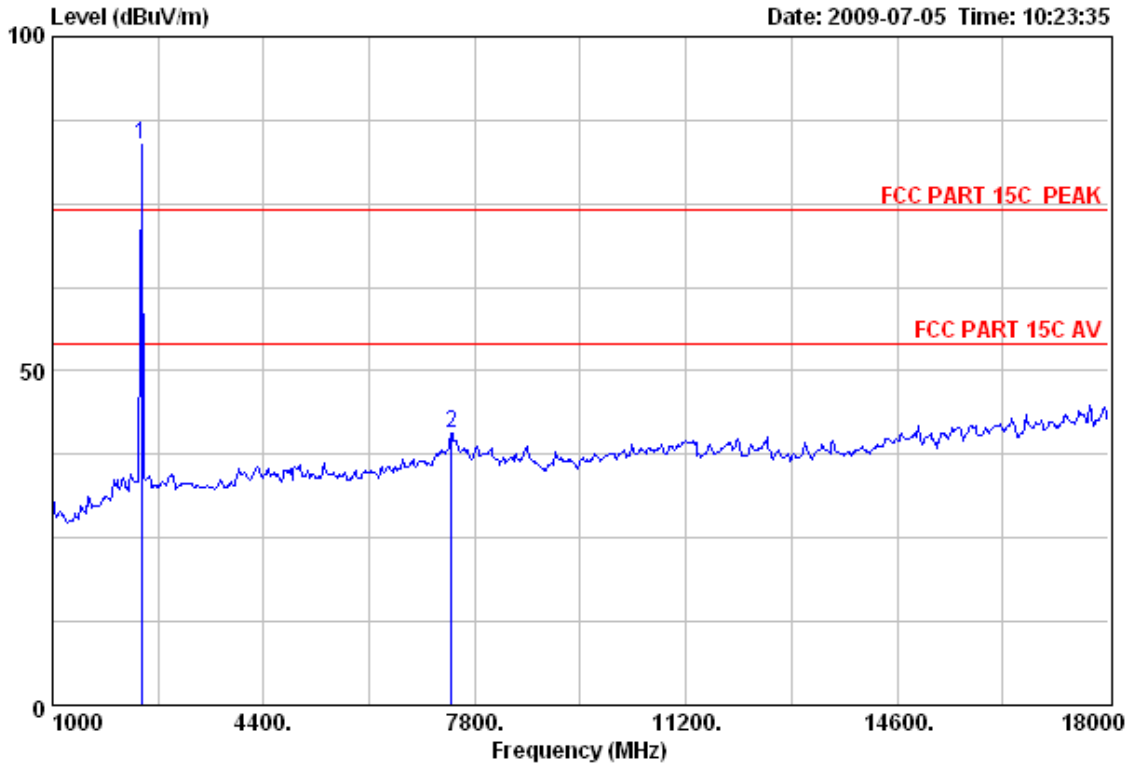
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Data: 51

File: D:\Radiation 10m data\D\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:23:35



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH6 2437MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2437.00	83.94	74.00	-9.94	50.17	31.54	2.23	Peak	
2 7426.00	40.78	74.00	33.22	1.42	36.82	2.54	Peak	

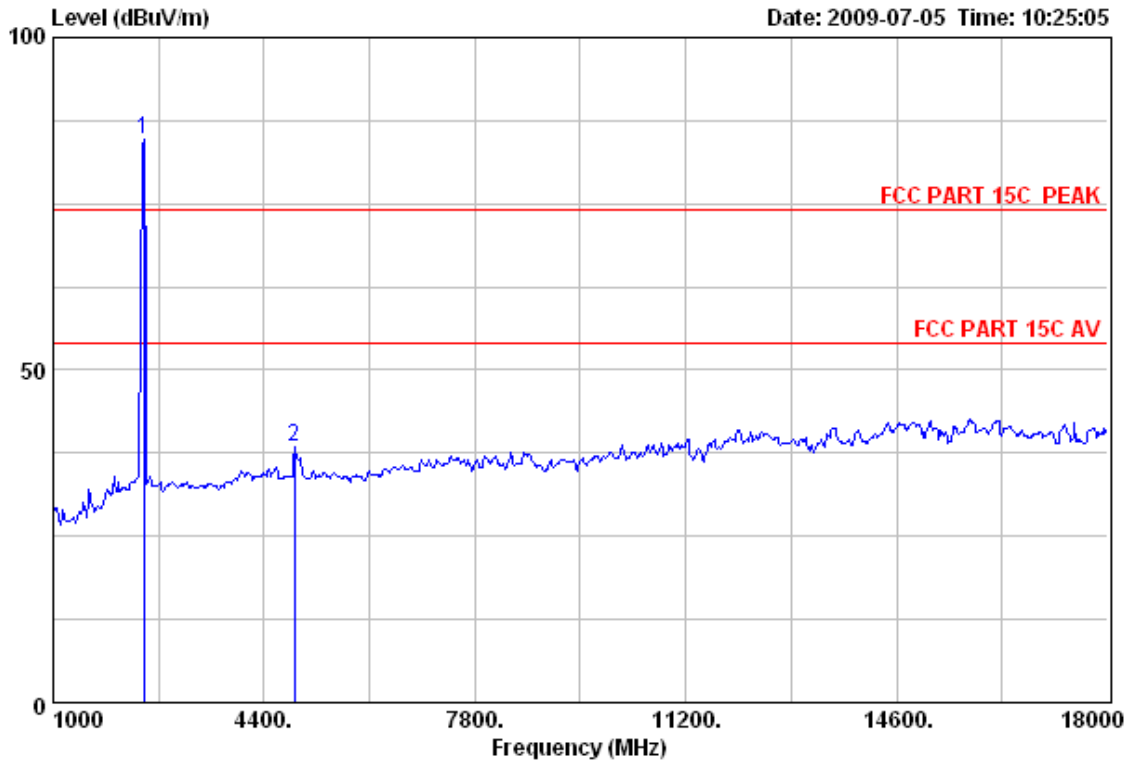


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Data: 52 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:25:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2462.00	84.72	74.00	-10.72	50.93	31.56	2.23	Peak
2 4893.00	38.37	74.00	35.63	1.36	34.63	2.38	Peak



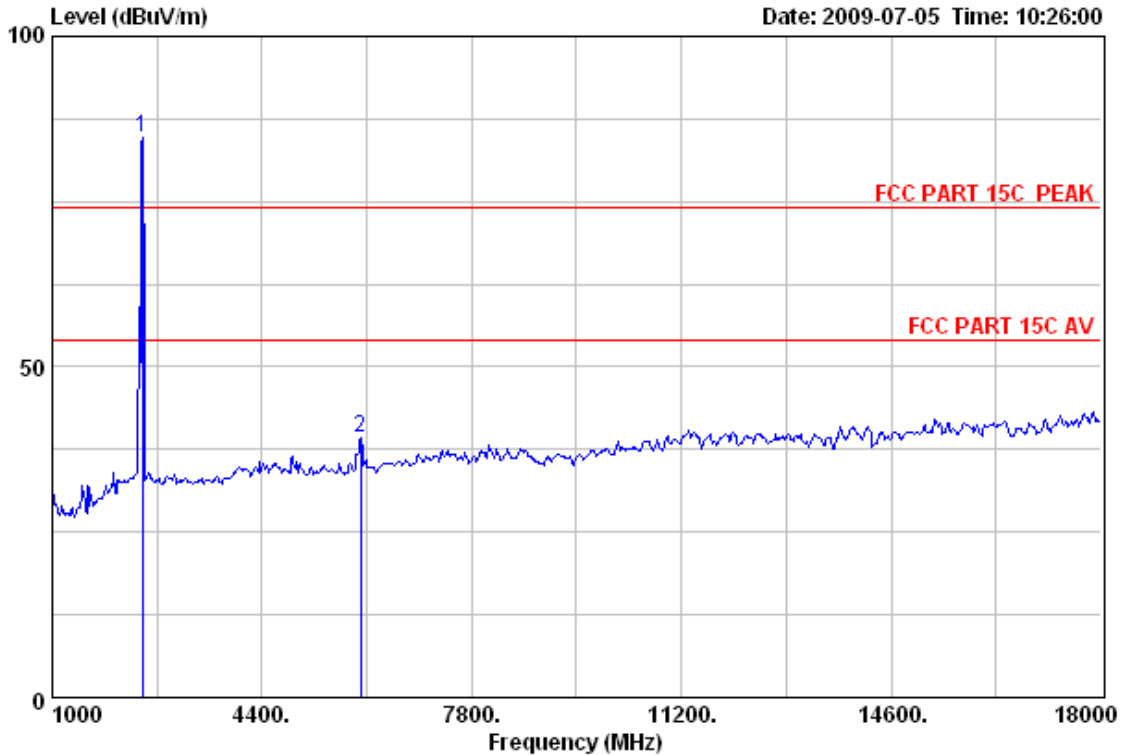
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Data: 53

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:26:00



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11b CH11 2462MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant.	Cable	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		Factor (dB/m)	Loss (dB)	
1 2462.00	84.72	74.00	-10.72	50.93	31.56	2.23	Peak
2 5998.00	39.40	74.00	34.60	0.85	36.10	2.45	Peak

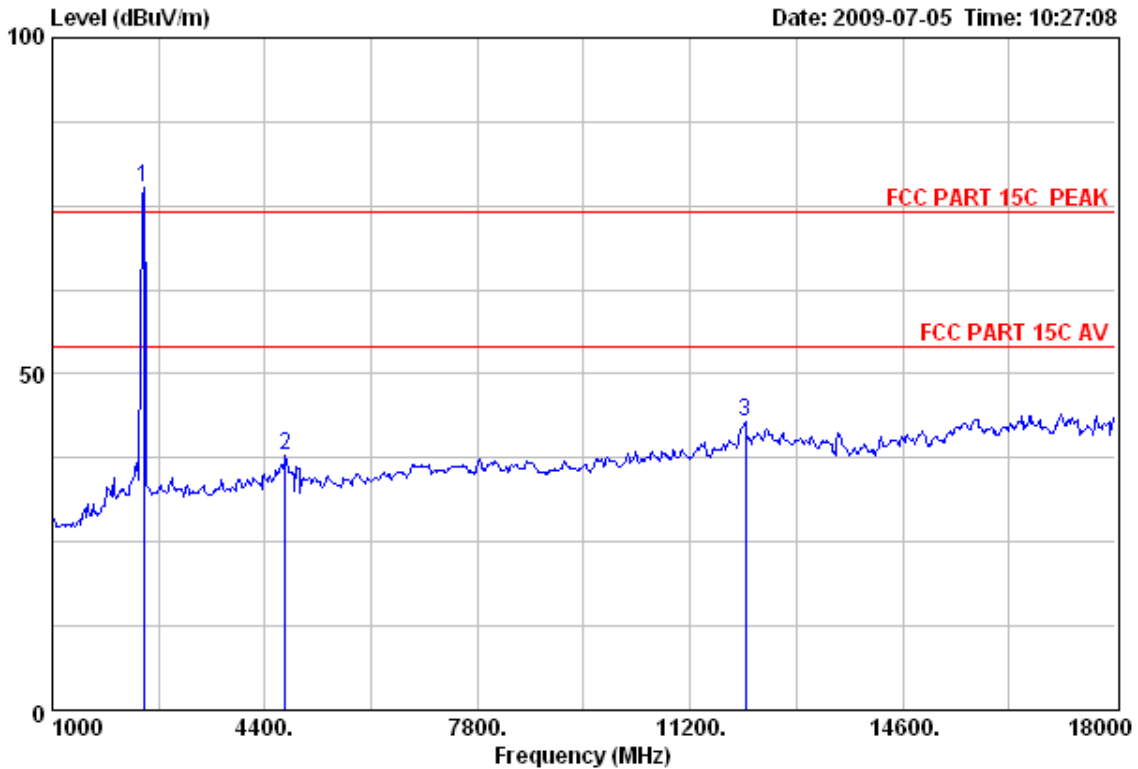


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Data: 54 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:27:08



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.00	77.71	74.00	-3.71	43.92	31.56	2.23	Peak
2 4723.00	37.82	74.00	36.18	0.92	34.53	2.37	Peak
3 12084.00	42.93	74.00	31.07	0.27	39.83	2.83	Peak



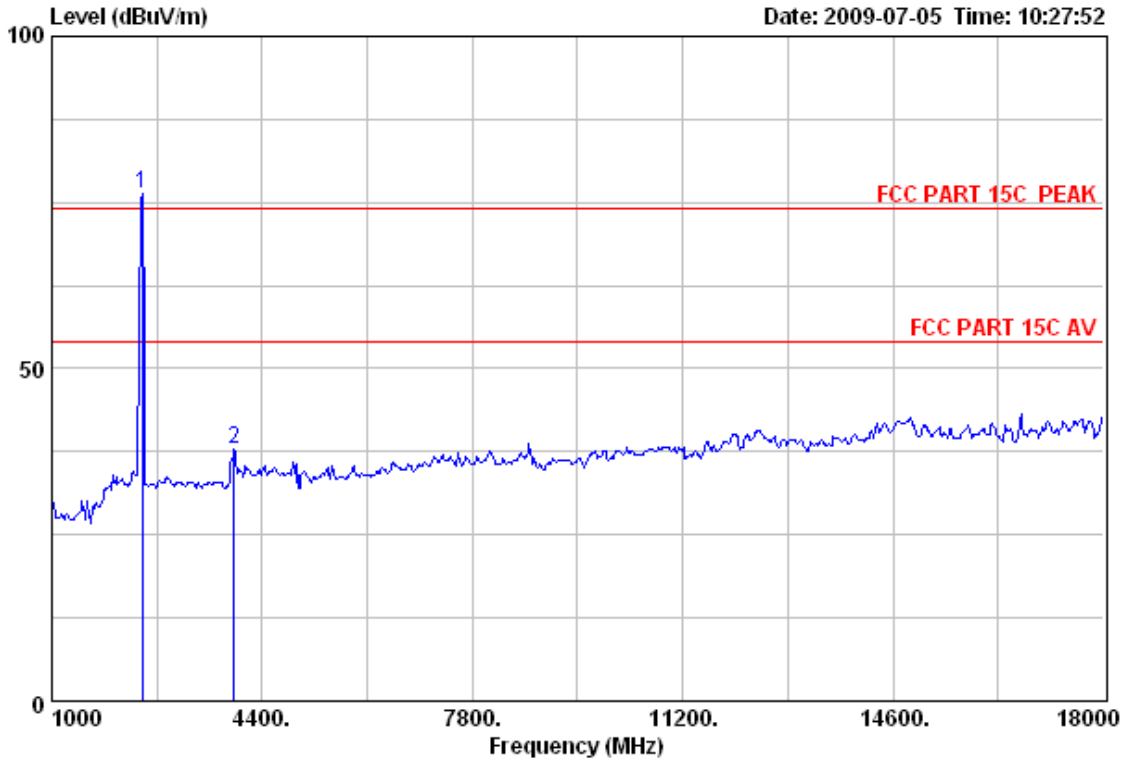
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Data: 55

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:27:52



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH11 2462MHz Tx Mode

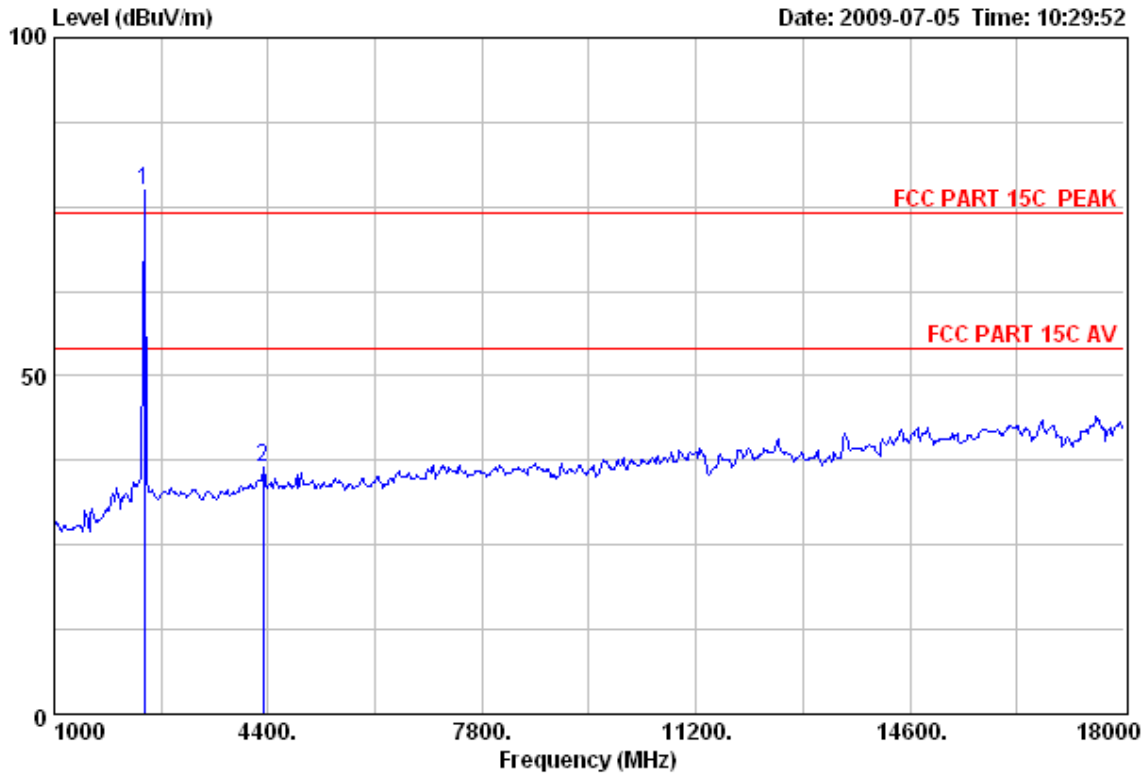
Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.00	76.35	74.00	-2.35	42.56	31.56	2.23	Peak
2 3941.00	37.82	74.00	36.18	1.95	33.55	2.32	Peak



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Data: 56 File: D:\Radiation 10m data\DESAY.EMI (71)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-R&Y DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH6 2437MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2437.00	77.49	74.00	-3.49	43.72	31.54	2.23	Peak
2 4315.00	36.61	74.00	37.39	0.13	34.13	2.35	Peak

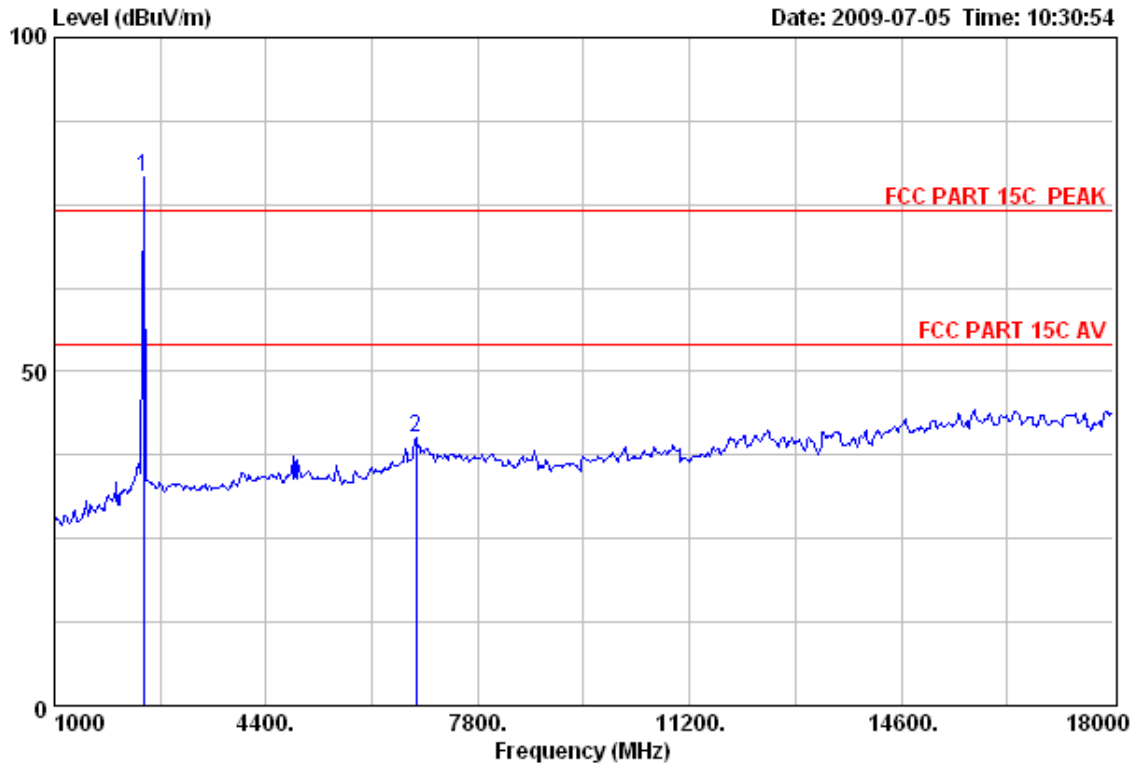


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Data: 57 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:30:54



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH6 2437MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2437.00	79.11	74.00	-5.11	45.34	31.54	2.23	Peak	
2 6814.00	40.23	74.00	33.77	0.94	36.79	2.50	Peak	



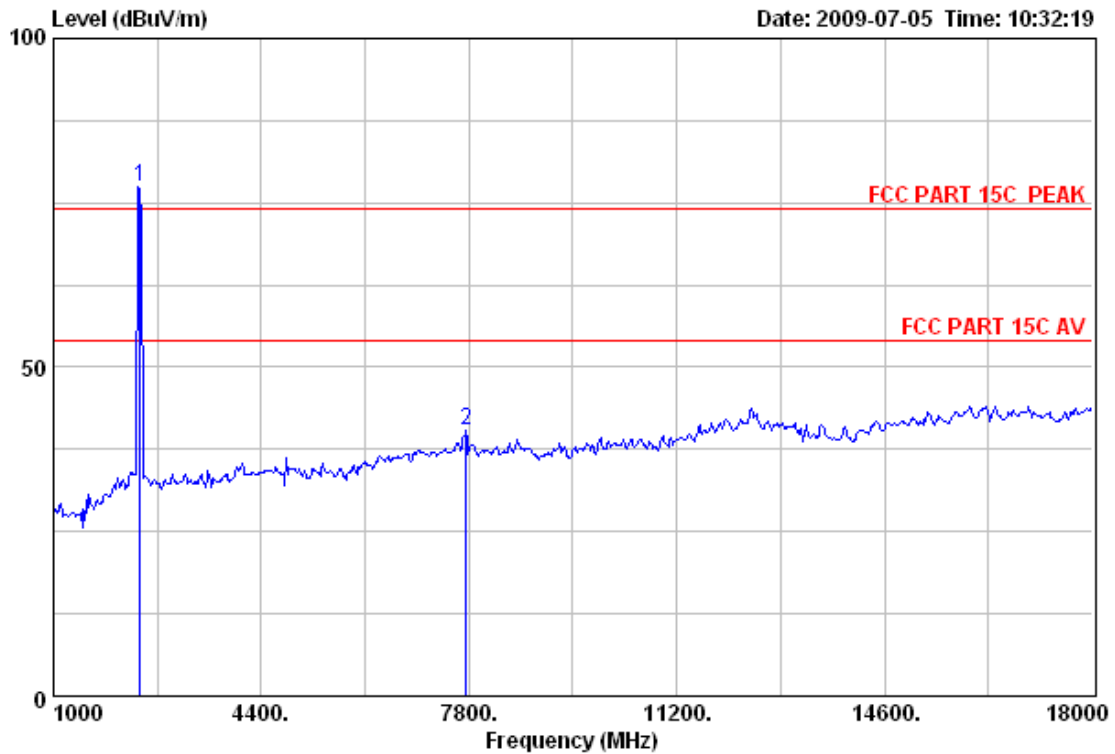
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Data: 58

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:32:19



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2412.00	77.57	74.00	-3.57	43.84	31.50	2.23	Peak
2 7749.00	40.30	74.00	33.70	0.84	36.90	2.56	Peak



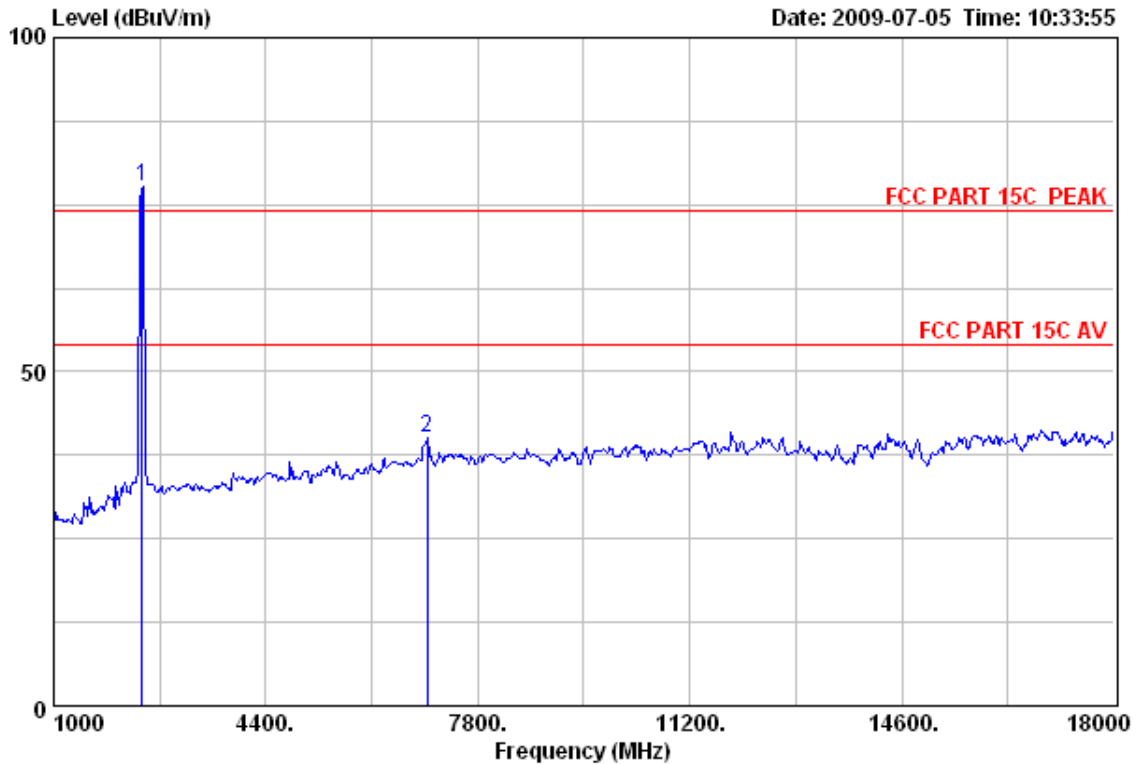
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Data: 59

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:33:55



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11g CH1 2412MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2412.00	77.71	74.00	-3.71	43.98	31.50	2.23	Peak
2 6984.00	40.21	74.00	33.79	0.81	36.89	2.51	Peak



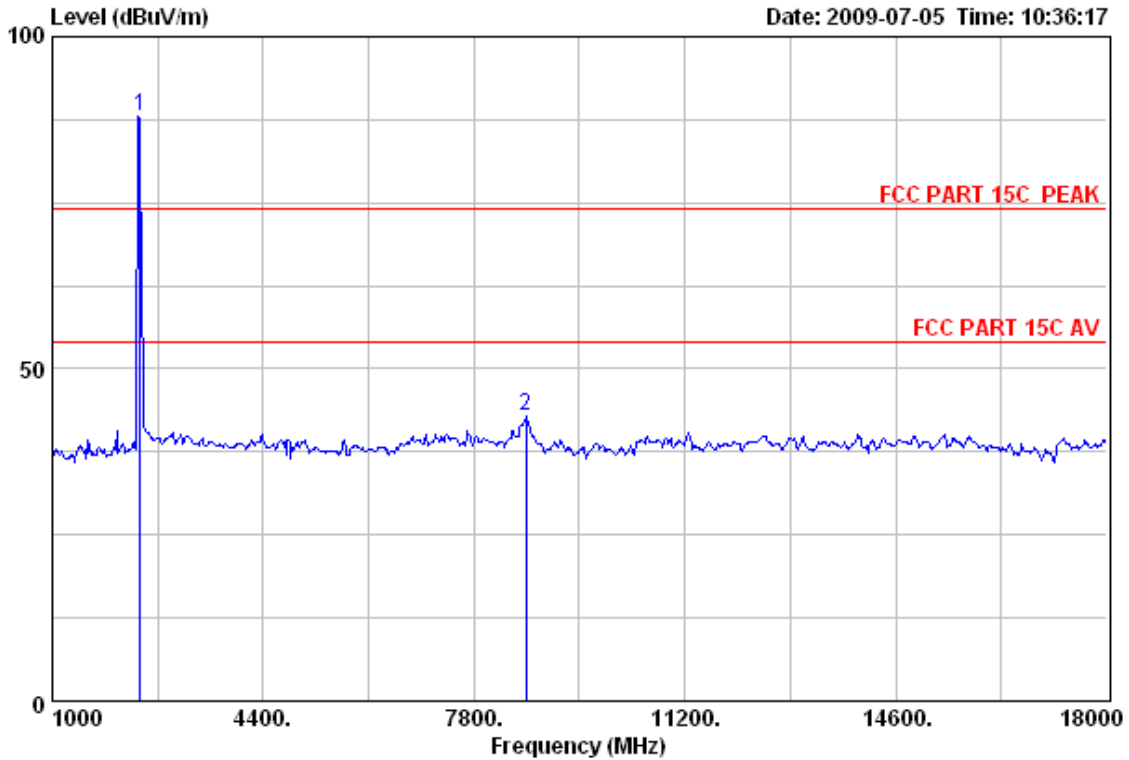
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Data: 60

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:36:17



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

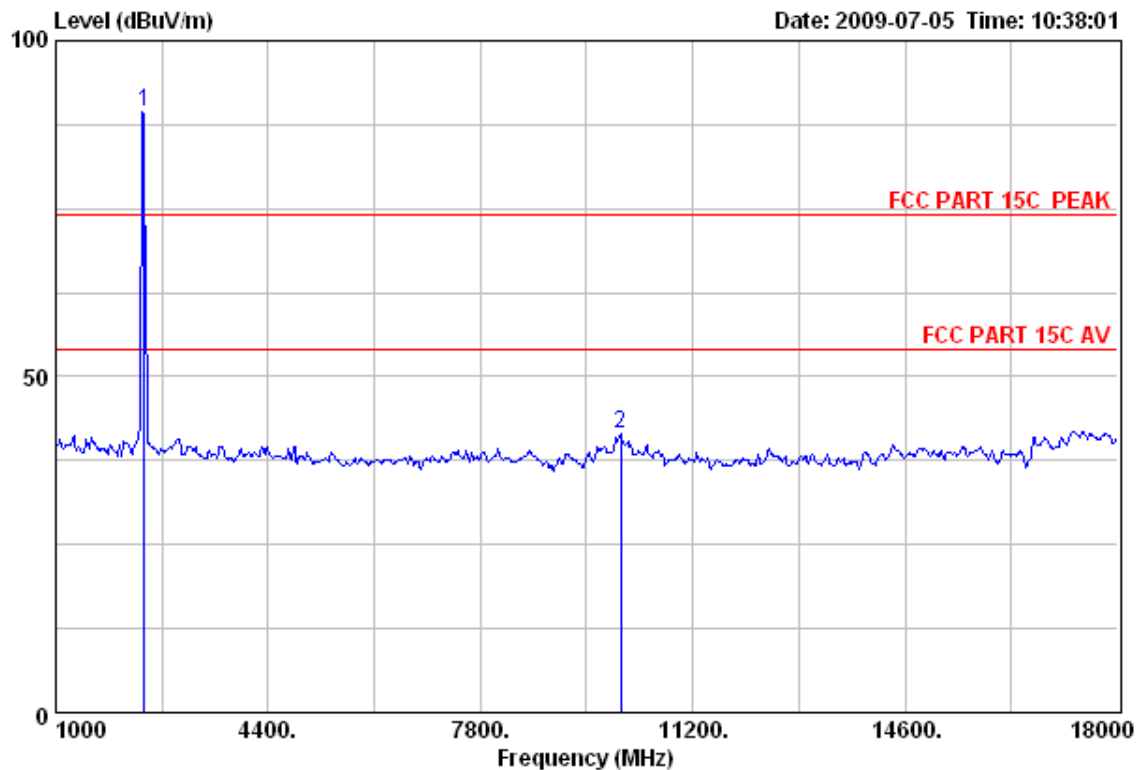
Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2422.00	88.06	74.00	-14.06	54.31	31.52	2.23	Peak
2 8633.00	42.95	74.00	31.05	3.38	36.95	2.62	Peak



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Data: 61 File: D:\Radiation 10m data\DESAY.EMI (71)



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH1 2422MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2422.00	89.41	74.00	-15.41	55.66	31.52	2.23	Peak
210044.00	41.61	74.00	32.39	0.89	38.02	2.70	Peak



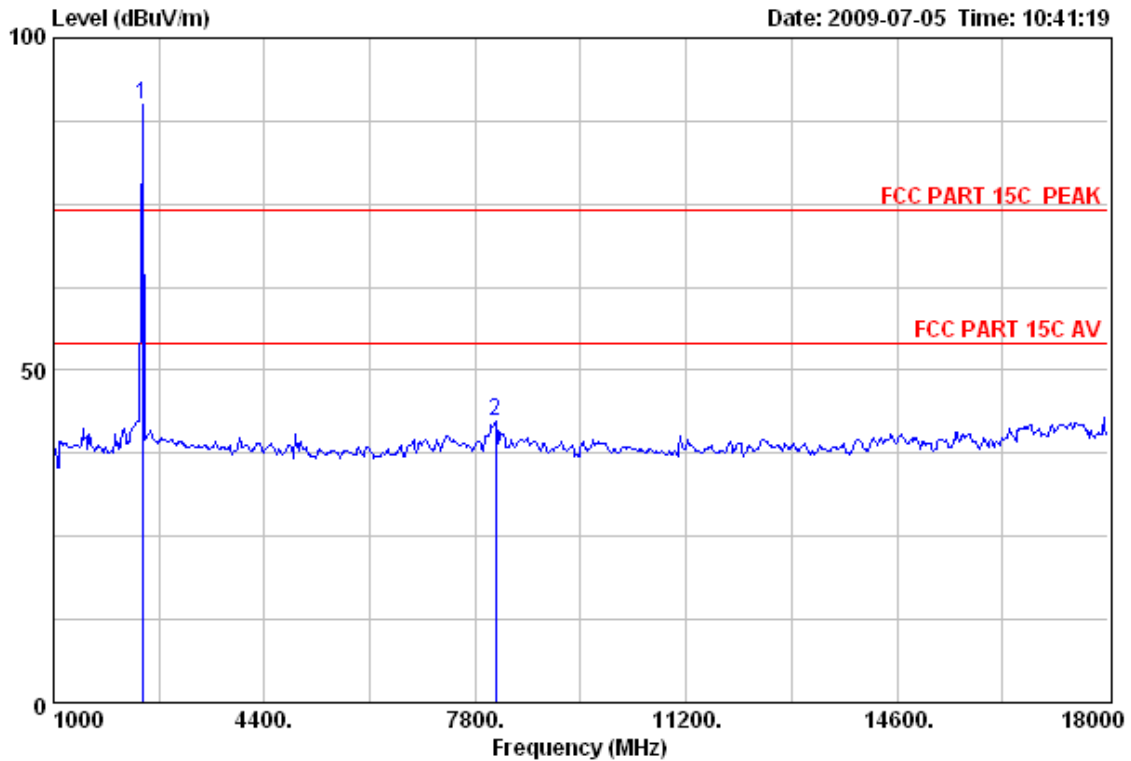
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Data: 62

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:41:19



```

Test Site      : 10m Chamber
Limit         : FCC PART 15C PEAK
Dis. / Ant.   : 3m 3117           Ant. Pol.: HORIZONTAL
EUT          : BLU-RAY DISC PLAYER
M/N          : NS-WBRDVD
Power        : AC 120V/60Hz
Test Engineer : Jade
Comment      : Temp.:25.2'C Humi.:56%
Test Mode    : IEEE802.11n HT40 CH4 2437MHz Tx Mode
    
```

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2437.00	89.84	74.00	-15.84	56.07	31.54	2.23	Peak	
2 8123.00	42.27	74.00	31.73	2.72	36.97	2.58	Peak	

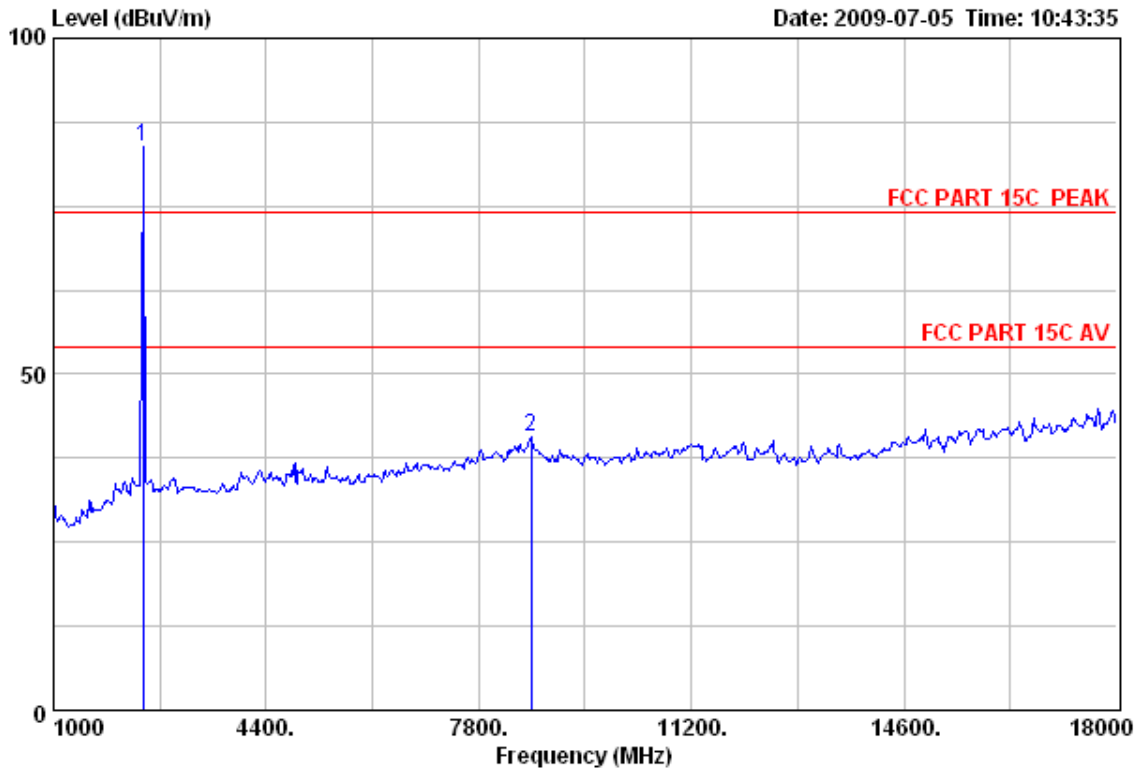


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Data: 63 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:43:35



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH4 2437MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2437.00	83.94	74.00	-9.94	50.17	31.54	2.23	Peak
2 8633.00	40.59	74.00	33.41	1.02	36.95	2.62	Peak

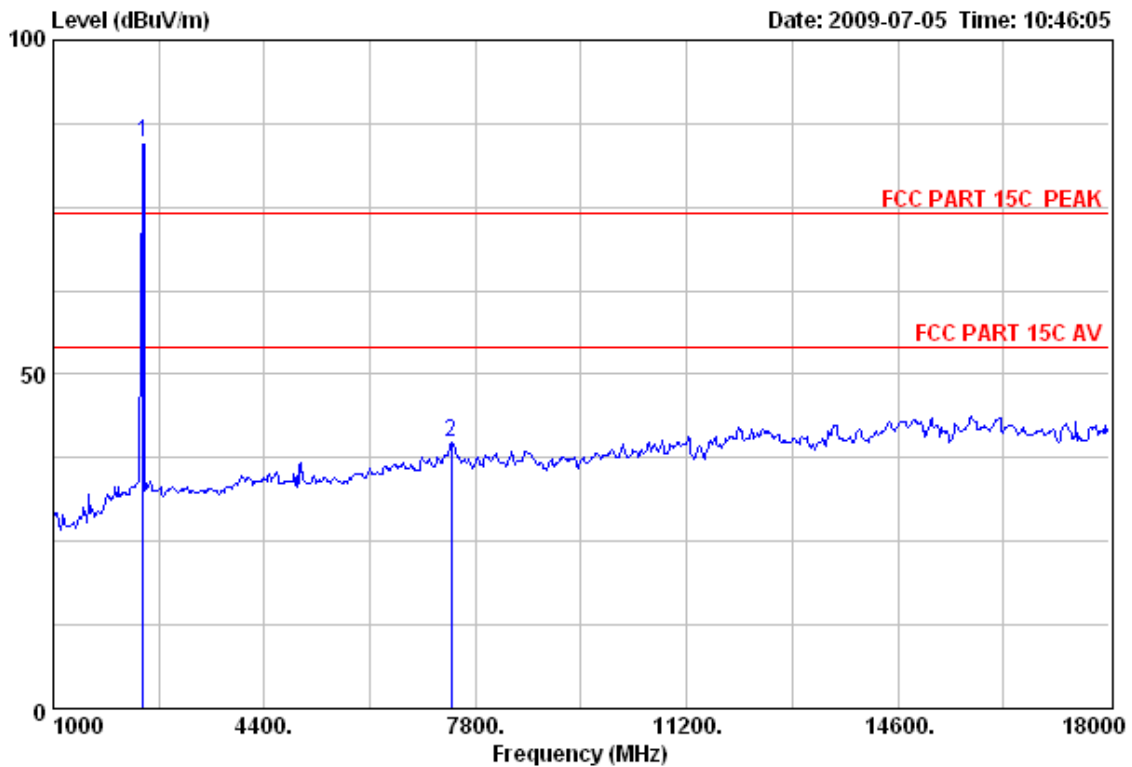


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Data: 64 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:46:05



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)						
1 2452.00	84.72	74.00	-10.72	50.95	31.54	2.23	Peak	
2 7409.00	39.97	74.00	34.03	0.61	36.82	2.54	Peak	



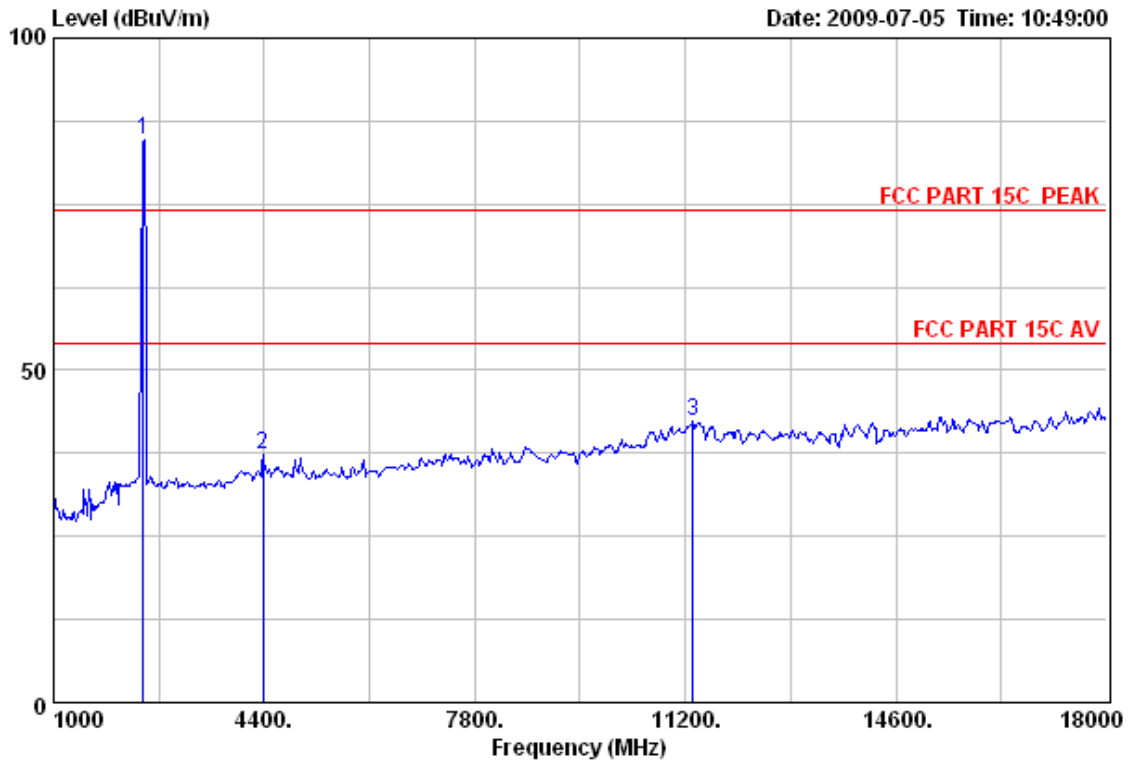
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Data: 65

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:49:00



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT40 CH7 2452MHz Tx Mode

Freq. (MHz)	Emission			Reading (dBUV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)				
1 2452.00	84.72	74.00	-10.72	50.95	31.54	2.23	Peak
2 4383.00	37.30	74.00	36.70	0.71	34.24	2.35	Peak
3 11319.00	42.42	74.00	31.58	0.84	38.80	2.78	Peak



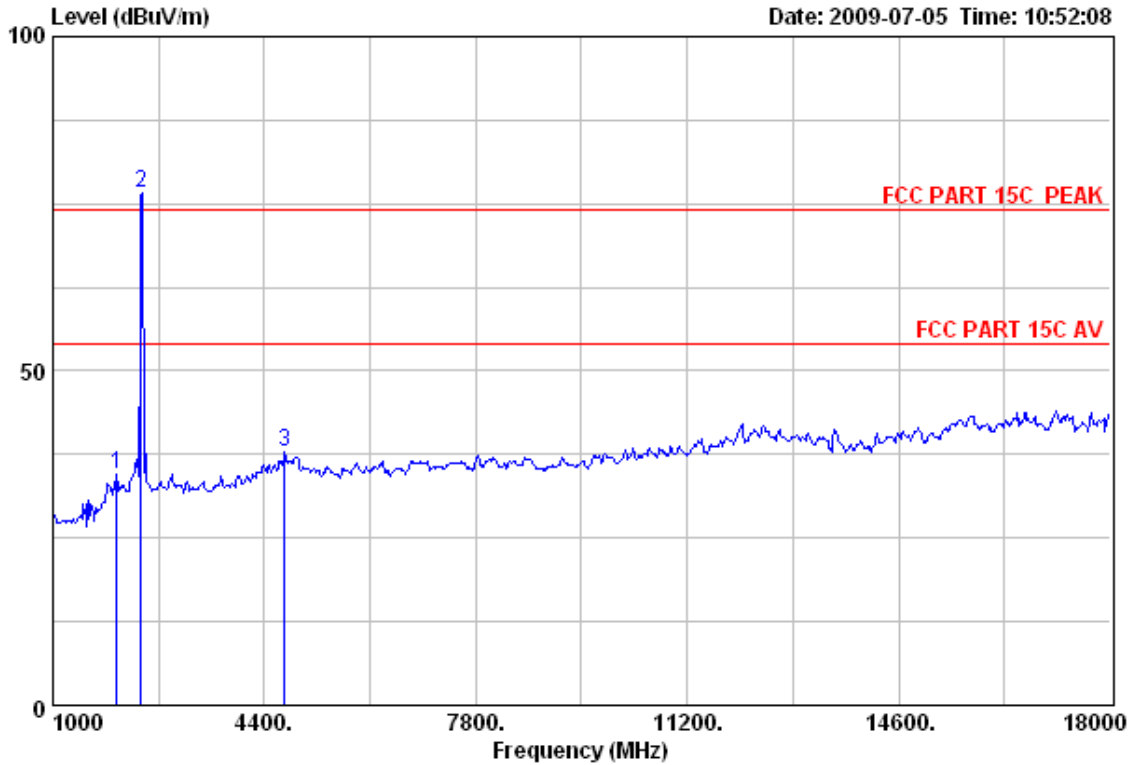
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Data: 66

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:52:08



```

Test Site      : 10m Chamber
Limit         : FCC PART 15C PEAK
Dis. / Ant.   : 3m 3117           Ant. Pol.: HORIZONTAL
EUT          : BLU-RAY DISC PLAYER
M/N          : NS-WBRDVD
Power        : AC 120V/60Hz
Test Engineer : Jade
Comment      : Temp.:25.2'C Humi.:56%
Test Mode    : IEEE802.11n HT20 CH1 2422MHz Tx Mode
    
```

Emission	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
						Factor (dB/m)	Loss (dB)	
1	2020.00	34.49	74.00	39.51	1.17	31.12	2.20	Peak
2	2422.00	76.63	74.00	-2.63	42.88	31.52	2.23	Peak
3	4723.00	37.82	74.00	36.18	0.92	34.53	2.37	Peak

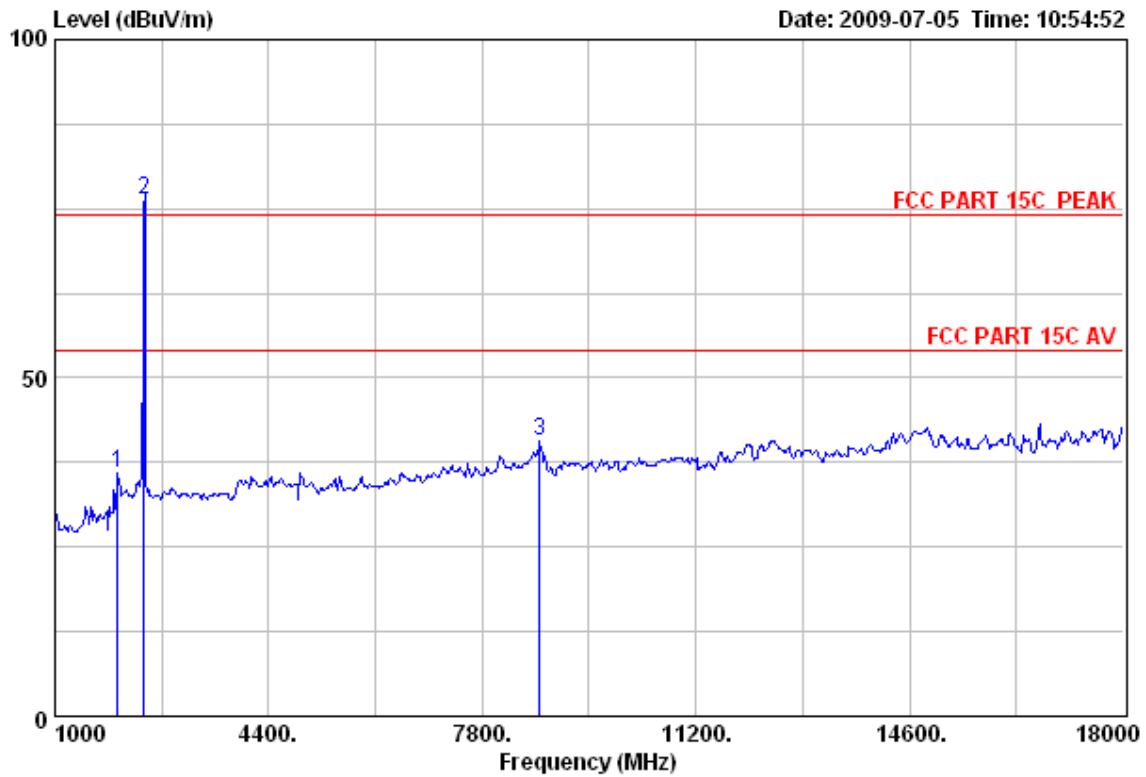


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Data: 67 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:54:52



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH1 2422MHz Tx Mode

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Factor (dB/m)	Loss (dB)	Remark
1 2003.00	35.98	74.00	38.02	2.68	31.10	2.20	Peak
2 2422.00	76.35	74.00	-2.35	42.60	31.52	2.23	Peak
3 8718.00	40.72	74.00	33.28	1.12	36.98	2.62	Peak



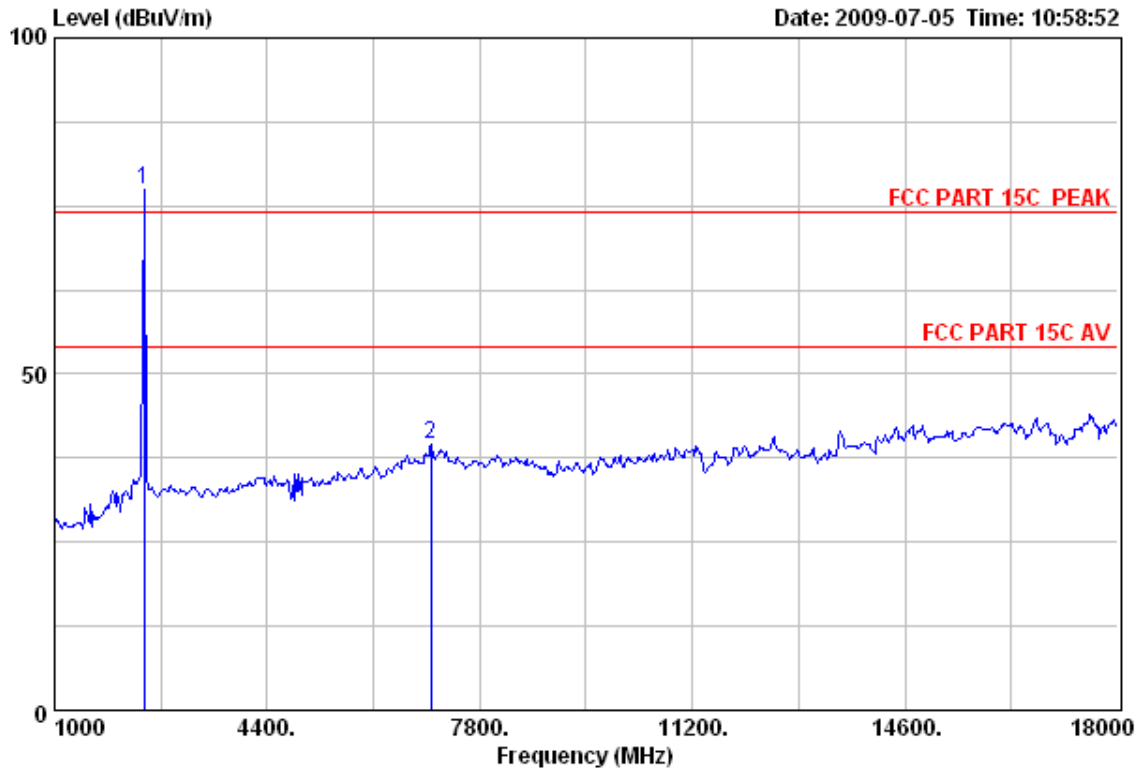
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Data: 68

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 10:58:52



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH6 2437MHz Tx Mode

Freq. (MHz)	Emission			Margin (dB)	Reading (dBuV)	Ant. Cable		Remark
	Level (dBuV/m)	Limits (dBuV/m)				Factor (dB/m)	Loss (dB)	
1 2437.00	77.49	74.00	-3.49	43.72	31.54	2.23	Peak	
2 7018.00	39.65	74.00	34.35	0.24	36.90	2.51	Peak	

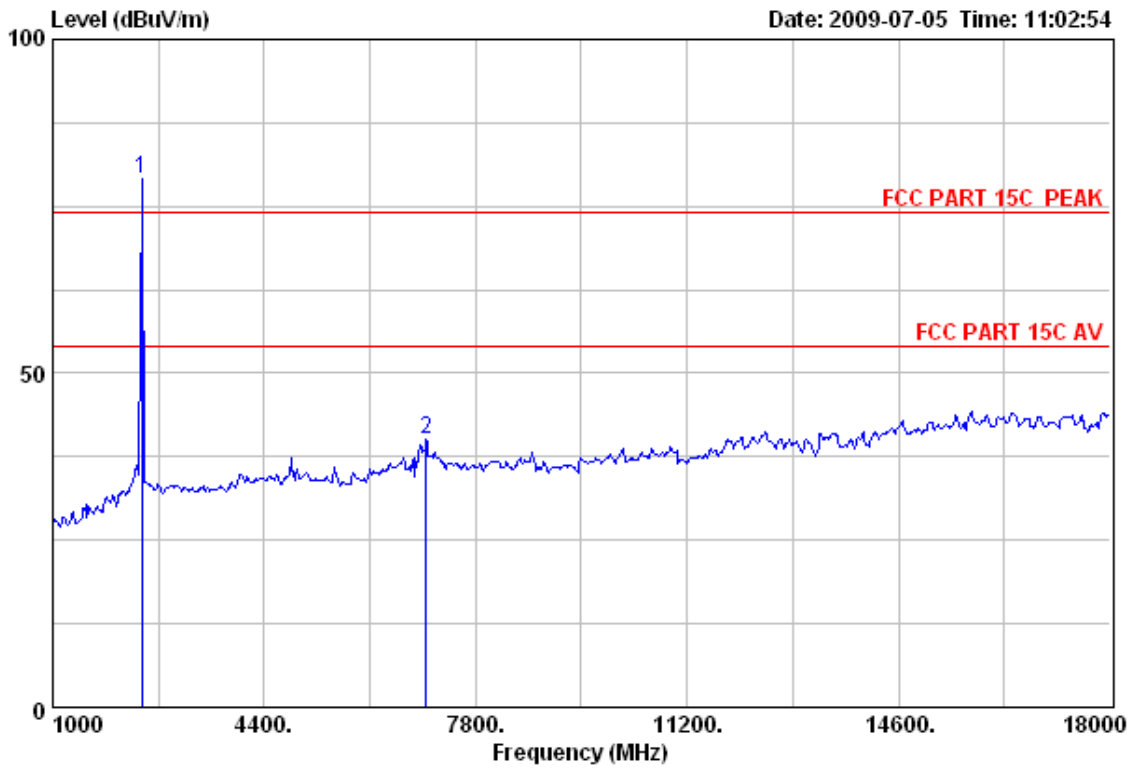


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Data: 69 File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 11:02:54



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH6 2437MHz Tx Mode

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1 2437.00	79.11	74.00	-5.11	45.34	31.54	2.23	Peak
2 7001.00	40.16	74.00	33.84	0.75	36.90	2.51	Peak



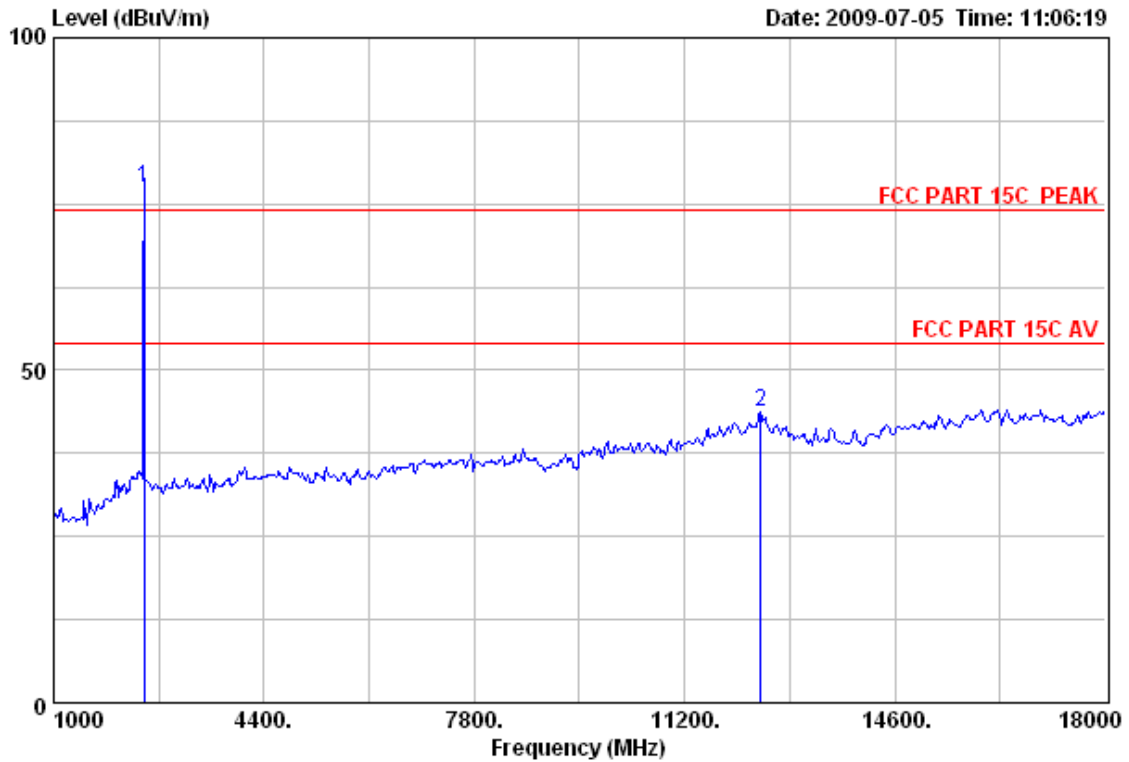
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Data: 70

File: D:\Radiation 10m data\D\DESAY.EMI (71)

Date: 2009-07-05 Time: 11:06:19



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.00	77.57	74.00	-3.57	43.78	31.56	2.23	Peak
212424.00	43.75	74.00	30.25	0.93	39.97	2.85	Peak



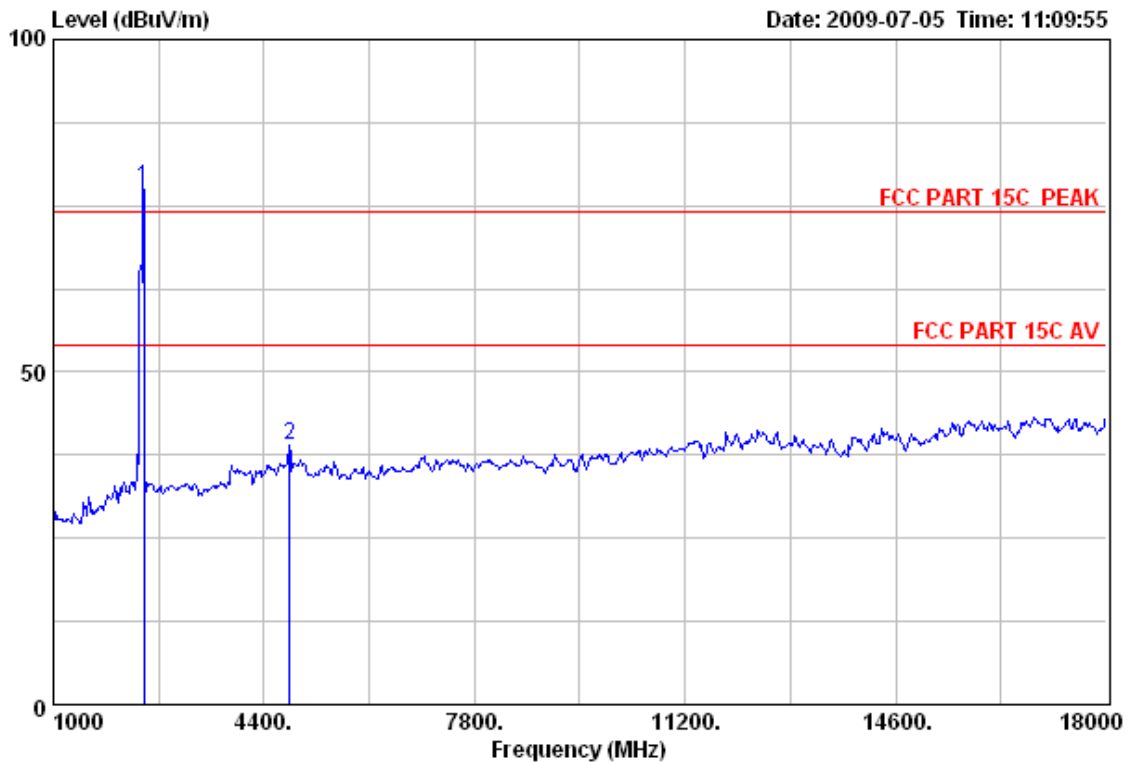
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Data: 71

File: D:\Radiation 10m data\DESAY.EMI (71)

Date: 2009-07-05 Time: 11:09:55



Test Site : 10m Chamber
 Limit : FCC PART 15C PEAK
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL
 EUT : BLU-RAY DISC PLAYER
 M/N : NS-WBRDVD
 Power : AC 120V/60Hz
 Test Engineer : Jade
 Comment : Temp.:25.2'C Humi.:56%
 Test Mode : IEEE802.11n HT20 CH11 2462MHz Tx Mode

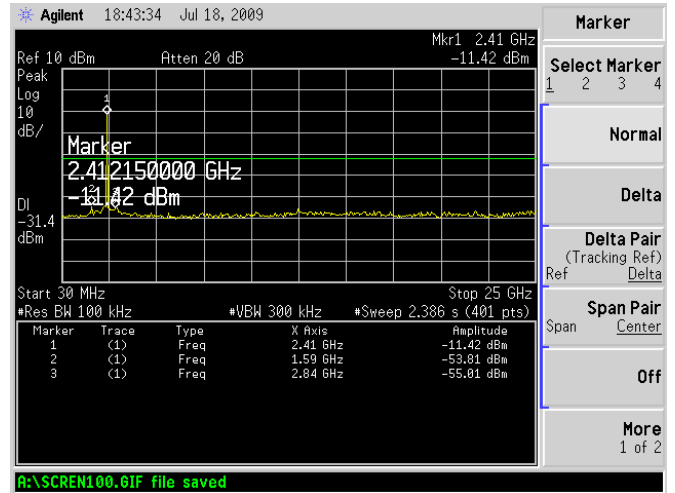
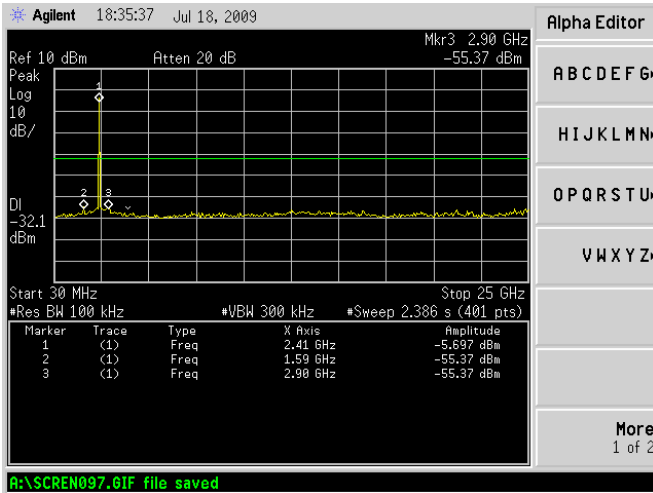
Freq. (MHz)	Emission		Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
	Level (dBuV/m)	Limits (dBuV/m)					
1 2462.00	77.71	74.00	-3.71	43.92	31.56	2.23	Peak
2 4808.00	38.98	74.00	35.02	2.02	34.58	2.38	Peak



Conducted emission test data:

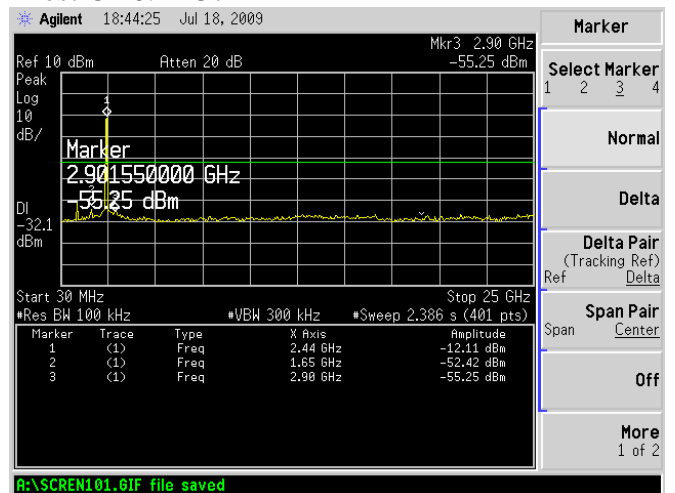
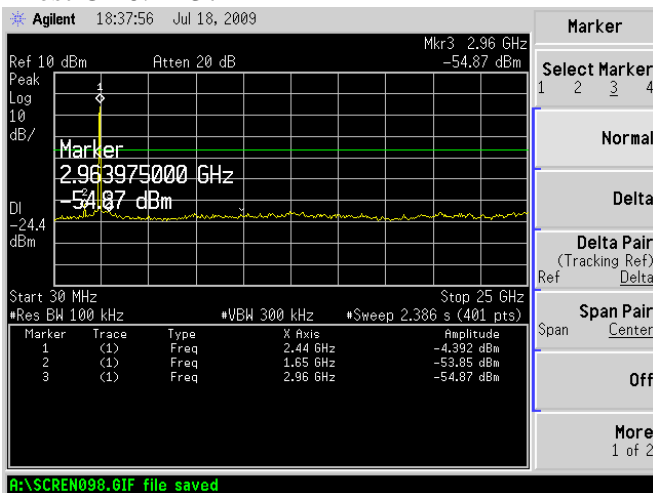
Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz

Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz



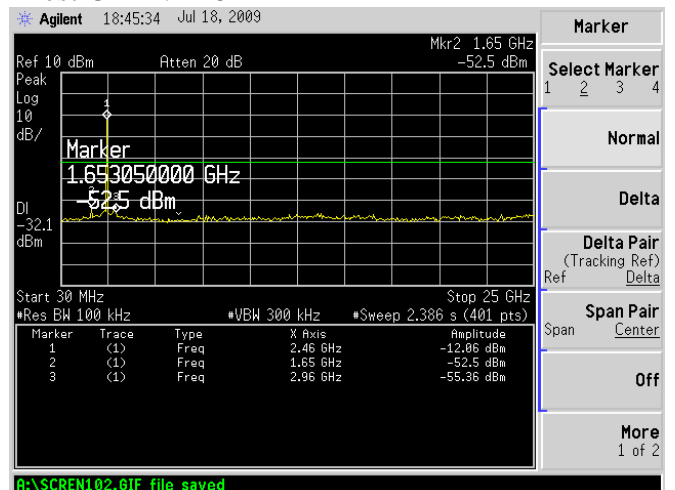
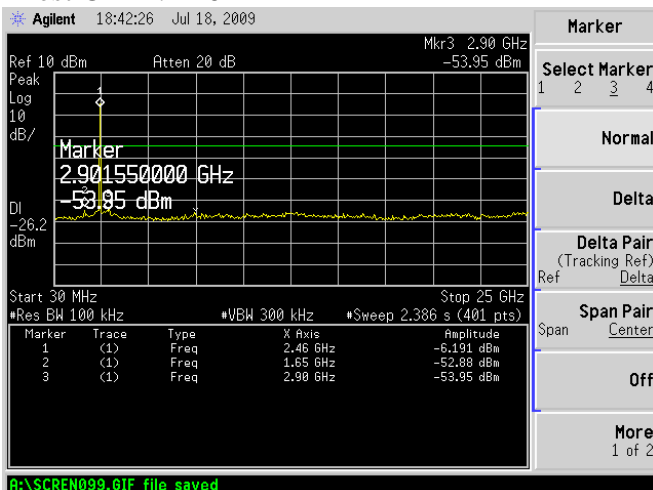
Test CH6: 2437MHz

Test CH6: 2437MHz

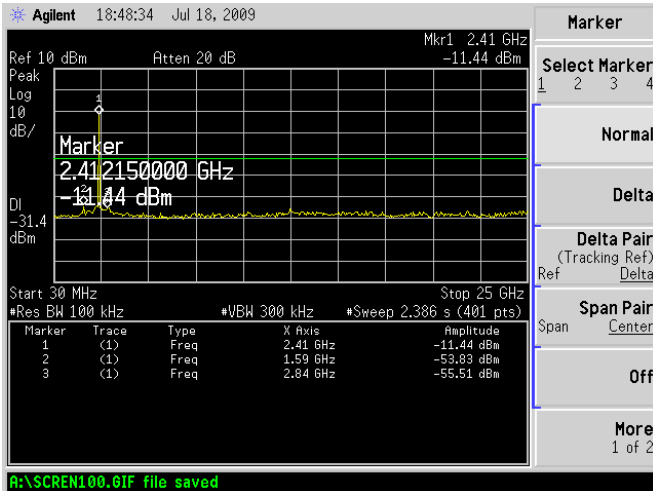


Test CH11: 2462MHz

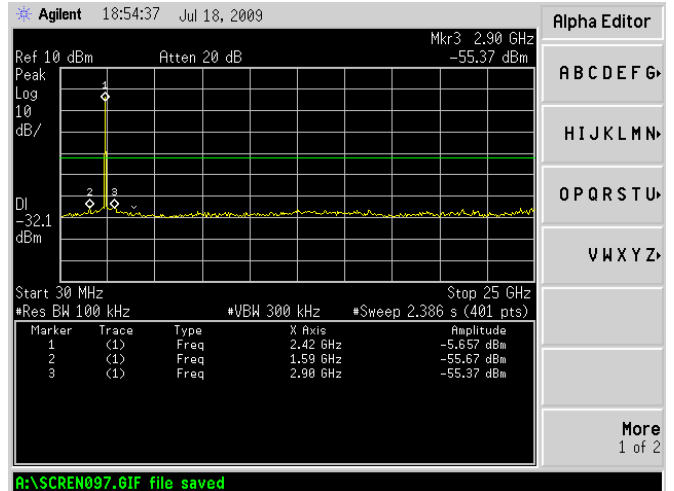
Test CH11: 2462MHz



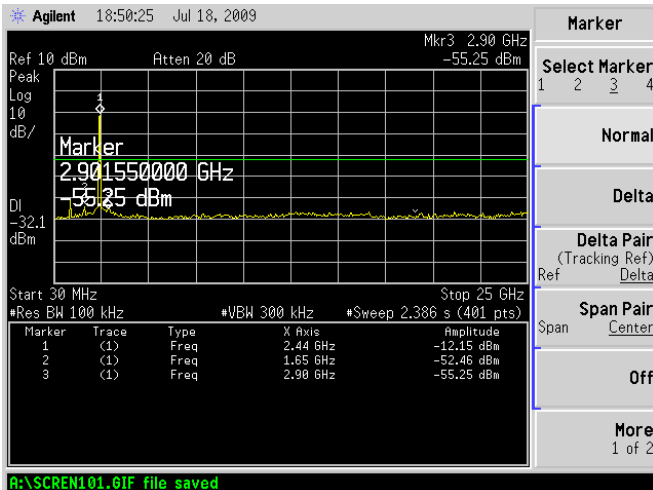
Test Mode: IEEE 802.11n TX (HT20)
Test CH1: 2412MHz



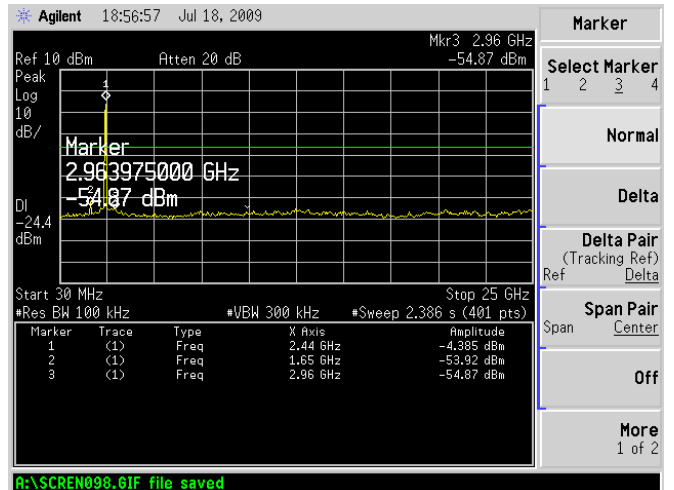
Test Mode: IEEE 802.11n TX (HT40)
Test CH1: 2422MHz



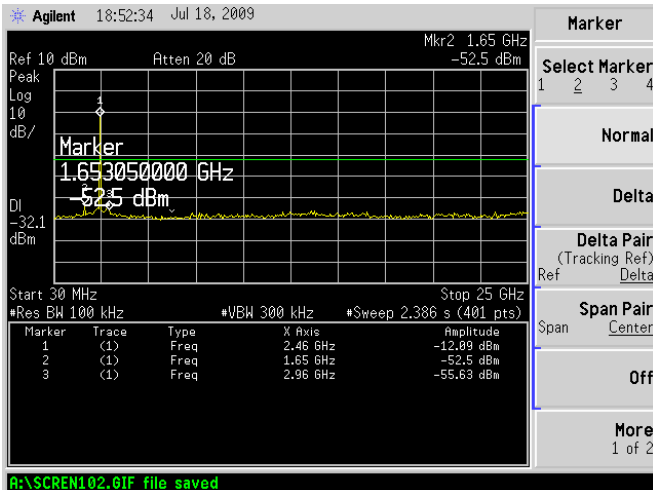
Test CH6: 2437MHz



Test CH4: 2437MHz



Test CH11: 2462MHz



Test CH7: 2452MHz

