

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

DESAV A&V SCIENCE AND TECHNOLOGY CO.,LTD

BLU-RAY DISC PLAYER

Model Number: DS-B202-R

Additional Mode: HBD316
DS-XXXXX(where X could be any alphanumeric or blank)

FCC ID: XJGDS0015

Prepared for : DESAV A&V SCIENCE AND TECHNOLOGY CO.,LTD
Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong,
516229, China

Prepared By :EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town,
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Report Number: ESTE-R1205009
Date of Test : May.18~24, 2012
Date of Report : May.24, 2012

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Test Report Verification

Applicant:	DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong, 516229, China		
Manufacturer:	DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong, 516229, China		
Factory:	DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong, 516229, China		
E.U.T:	BLU-RAY DISC PLAYER		
Model Number:	DS-B202-R Additional Mode: HBD316; DS-XXXXX (where X could be any alphanumeric or blank) Note: The products are difference in model number only.		
Power Supply:	AC 120V/60Hz		
Test Voltage:	AC 120V/60Hz		
Trade Name:	DESAY; HITACHI	Serial No.:	-----
Date of Receipt:	Apr.20.2012	Date of Test:	May.18~24, 2012
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2011 ANSI C63.4:2003		
Test Result:	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the ETSI EN FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> <p>Date: May.24.2012</p>		
Prepared by:	Tested by:	Approved by:	
			
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
<p><i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i></p>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	: BLU-RAY DISC PLAYER
Model Number	: DS-B202-R
FCC ID	: XJGDS0015
Operation frequency	: IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11n HT20: 2412MHz—2462MHz IEEE802.11n HT40: 2422MHz—2452MHz
Number of channel	: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels
Antenna	: Integrated PCB antenna, 2dBi Gain(maximum)
Modulation	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Power Supply	: AC 120V/60Hz
Applicant	: DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong, 516229, China
Manufacturer	: DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD Desay 3rd Industry Zone, Chenjiang Town, Huizhou City, Guangdong, 516229, China
Sample Type	: Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.4:2003	PASS
Radiated Emission	FCC Part 15: 15.207 ANSI C63.4:2003	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.4:2003	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.4:2003	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.4:2003	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.4:2003	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.4:2003	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA
Registration No.: L5288
Date of registration: October 28, 2011

Certificated by FCC, USA
Registration No.: 989591
Date of registration: December 07, 2010

Certificated by Industry Canada
Registration No.: 46405-9405
Date of registration: December 16, 2010

Certificated by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

Certificated by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

2.3. Assistant equipment used for test

N/A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into BT test mode by Bluesuite software before test.



2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.6. Test Equipment

2.6.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	Mar,13,12	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	Mar,13,12	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	Aug.25,11	1 Year

2.6.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	Mar,18,12	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	Mar,18,12	1 Year
Bilog Antenna	Teseq	CBL 6111D	25872	June.08,11	1 .5Year
Signal Amplifier	Agilent	310N	187037	Aug,25,11	1 Year

2.6.3. For radiated emission test(above 1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Temperature controller	Terchy	MHQ	120	May.02,12	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	May.02,12	1 Year
Vector Signal Generator	R&S	SMBV100A	1407.6004K02	May.02,12	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Jan.16.11	2 Year
Double Ridged Horn Antenna	R&S	HF907	100268	Jan.16.11	2 Year
Log-periodic Dipole Antenna	R&S	HL223	100435	Jan.16.11	2 Year
Biconical Antenna	R&S	HK116	100431	Jan.16.11	2 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-462	Jan.16.11	2 Year
Pre-amplifier	AH	PAM-0118	10008	May.02,12	1 Year
Pre-amplifier	R&S	SCU-01	10049	May.02,12	1 Year
High Pass filter	Micro	HPM50111	324455	May.02,12	1 Year
RF Cable	Hubersuhner	W10.02	534096	May.02,12	1 Year
RF Cable	Hubersuhner	W10.02	534123	May.02,12	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	May.02,12	1 Year
RF Cable	Hubersuhner	RG 214/U	523455	May.02,12	1 Year
Power Meter	R&S	NRVS	101807	May.02,12	1 Year

3. POWER LINE CONDUCTED EMISSION TEST

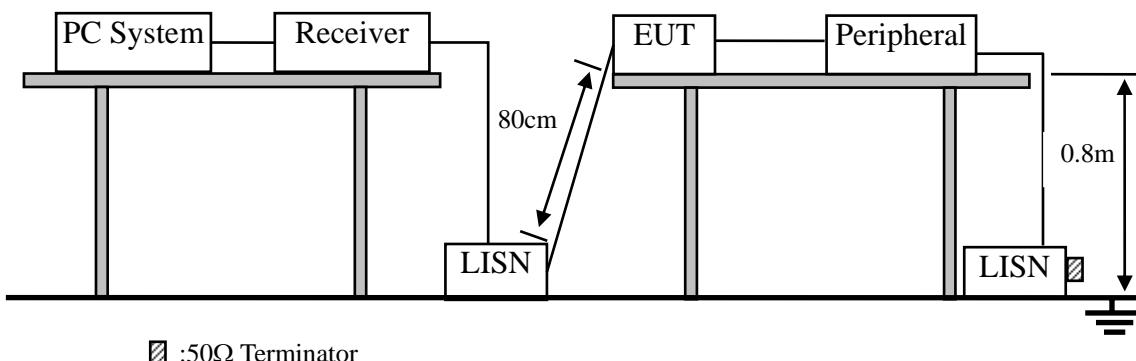
3.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ 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.

3.2. Block Diagram of Test Setup



3.3. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The 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 C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

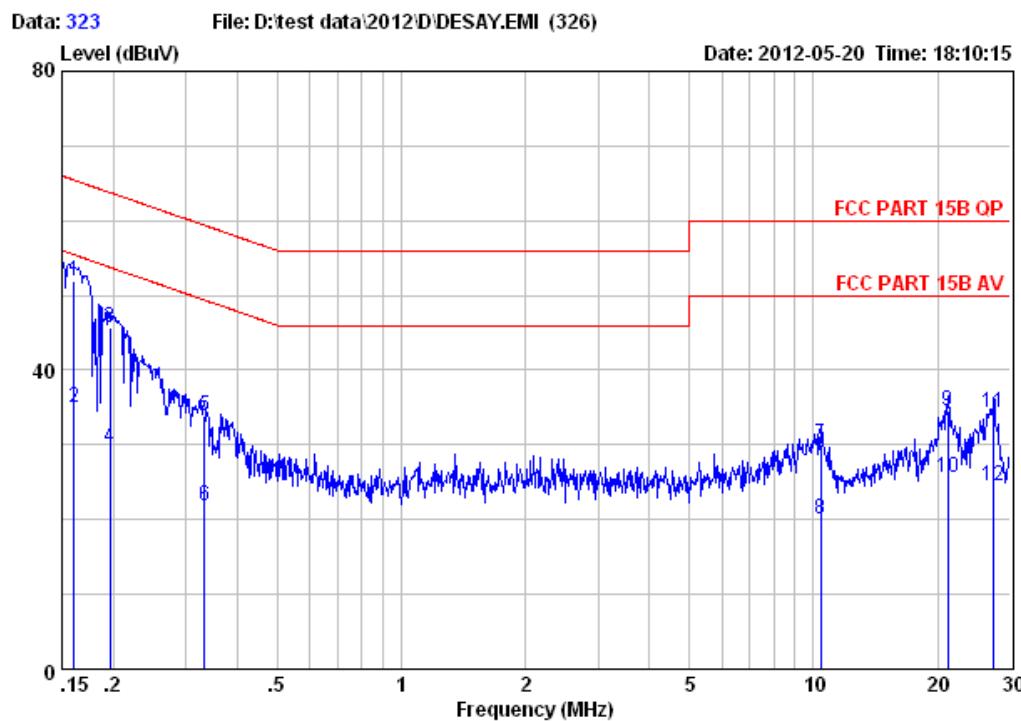
3.4. Test Result

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

3.5. Test data

EST Technology

San Tun Management Zone, Houjie Town,
 Dongguan, Guangdong, China
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 Fax: +86-769-83081878



Site no. : EST 844 Shielded Room Data no. : 323
 Limit : FCC PART 15B QP LINE Phase : LINE
 Env. / Ins. : Temp:24.3°C Humi:58% Press:101.50kPa
 Engineer : Tong
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : TX

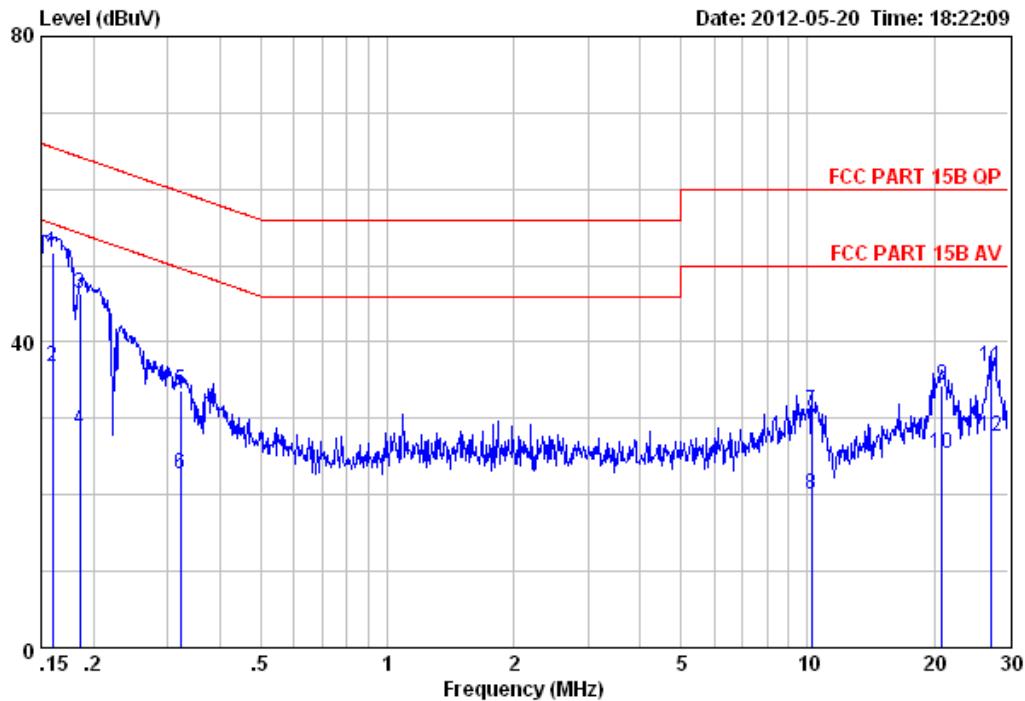
Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.16	9.61	9.81	32.48	51.90	65.43	QP
2	0.16	9.61	9.81	15.48	34.90	55.43	Average
3	0.20	9.61	9.80	26.24	45.65	63.76	QP
4	0.20	9.61	9.80	10.24	29.65	53.76	Average
5	0.33	9.61	9.83	14.48	33.92	59.40	QP
6	0.33	9.61	9.83	2.48	21.92	49.40	Average
7	10.40	9.66	9.89	10.61	30.16	60.00	QP
8	10.40	9.66	9.89	0.61	20.16	50.00	Average
9	21.15	9.68	9.98	14.88	34.54	60.00	QP
10	21.15	9.68	9.98	5.88	25.54	50.00	Average
11	27.42	9.70	10.04	14.68	34.42	60.00	QP
12	27.42	9.70	10.04	4.68	24.42	50.00	Average

EST Technology

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Data: 325 File: D:\test data\2012\0\DESAY.EMI (326)

Date: 2012-05-20 Time: 18:22:09



Site no. : EST 844 Shielded Room Data no. : 325
 Limit : FCC PART 15B QP LINE Phase : NEUTRAL
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : TX

Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission				Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	0.16	9.49	9.81	32.48	51.78	65.47	13.69	QP
2	0.16	9.49	9.81	17.48	36.78	55.47	18.69	Average
3	0.19	9.56	9.80	27.10	46.46	64.24	17.78	QP
4	0.19	9.56	9.80	9.10	28.46	54.24	25.78	Average
5	0.32	9.59	9.83	14.30	33.72	59.66	25.94	QP
6	0.32	9.59	9.83	3.30	22.72	49.66	26.94	Average
7	10.23	9.70	9.89	11.43	31.02	60.00	28.98	QP
8	10.23	9.70	9.89	0.43	20.02	50.00	29.98	Average
9	20.92	9.82	9.98	14.61	34.41	60.00	25.59	QP
10	20.92	9.82	9.98	5.61	25.41	50.00	24.59	Average
11	27.42	9.82	10.04	16.84	36.70	60.00	23.30	QP
12	27.42	9.82	10.04	7.84	27.70	50.00	22.30	Average

4. RADIATED EMISSION TEST

4.1. Limit

4.1.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.1.2.15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2. Test Procedure

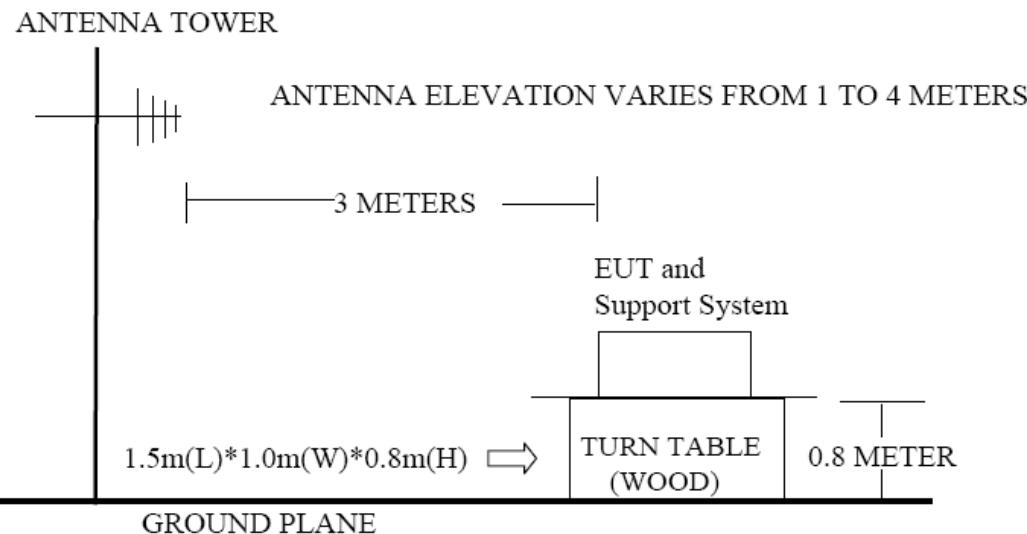
EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

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

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

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.3. Block Diagram of Test setup



4.4. Test Result

PASS.

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

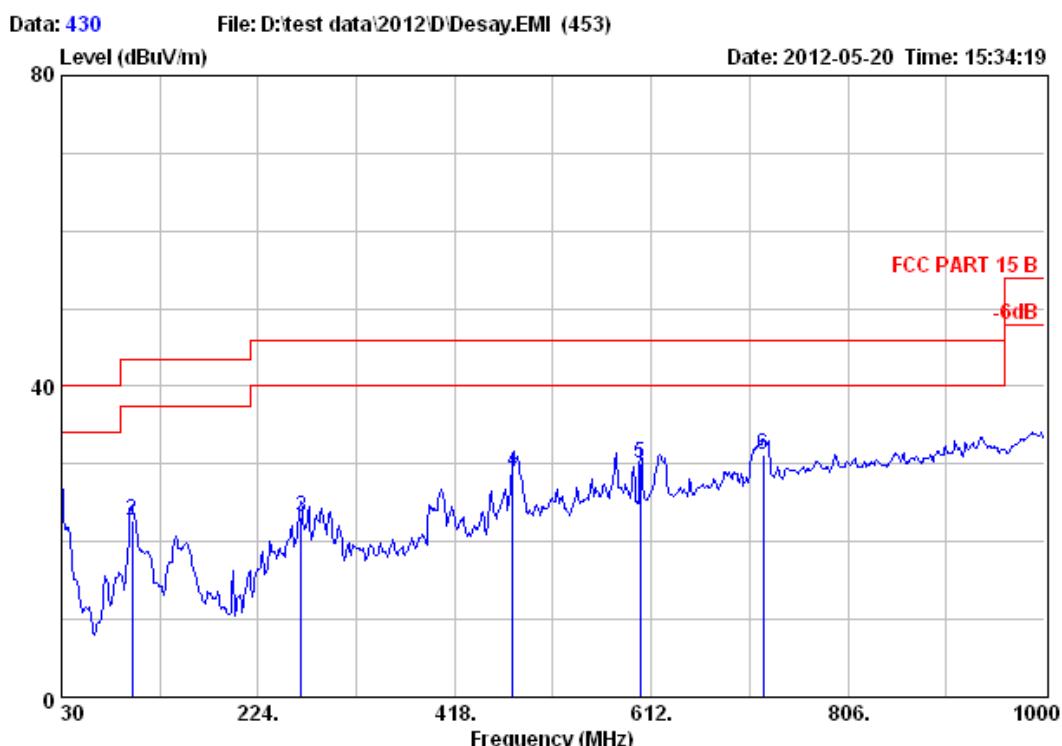
Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

4.5. Test Data

30-1000 MHz

EST Technology

San Tun Management Zone, Houjie Town,
 Dongguan City, Guangdong, China
 Tel: +86-769-83081888
 Fax: +86-769-83081878



Site no. : 3m Chamber Data no. : 430
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

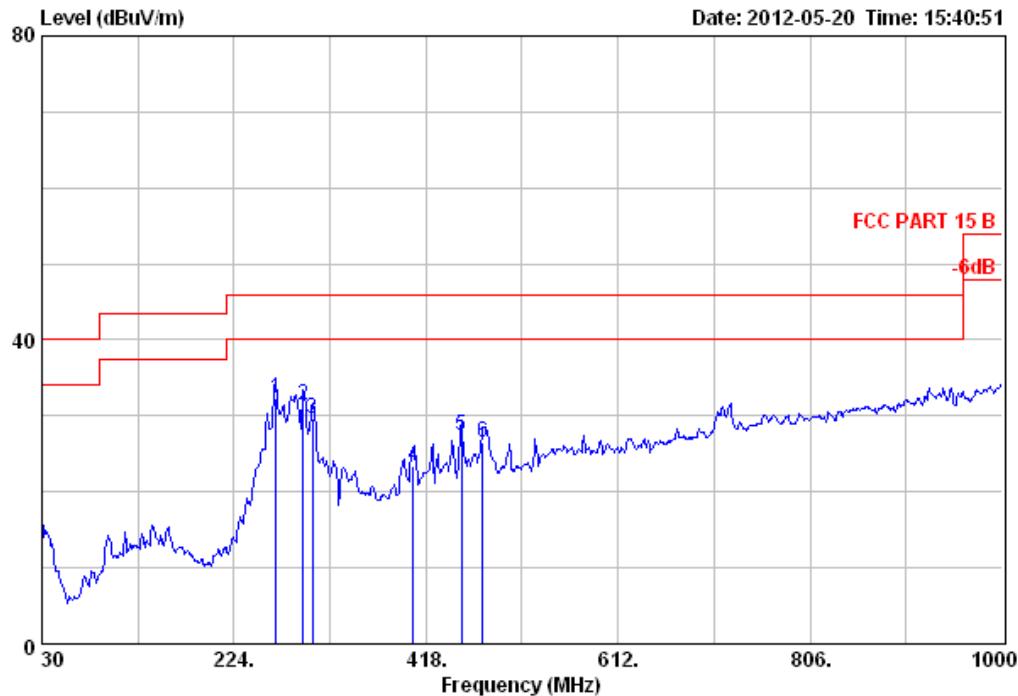
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	5.97	26.39	40.00	13.61	QP
2 99.84	9.45	3.04	10.16	22.65	43.50	20.85	QP
3 266.68	12.79	5.00	5.29	23.08	46.00	22.92	QP
4 475.23	17.33	6.61	5.02	28.96	46.00	17.04	QP
5 601.33	19.63	7.36	3.05	30.04	46.00	15.96	QP
6 722.58	21.67	7.80	1.75	31.22	46.00	14.78	QP

EST Technology

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Data: 431 File: D:\test data\2012\4\Desay.EMI (453)

Date: 2012-05-20 Time: 15:40:51



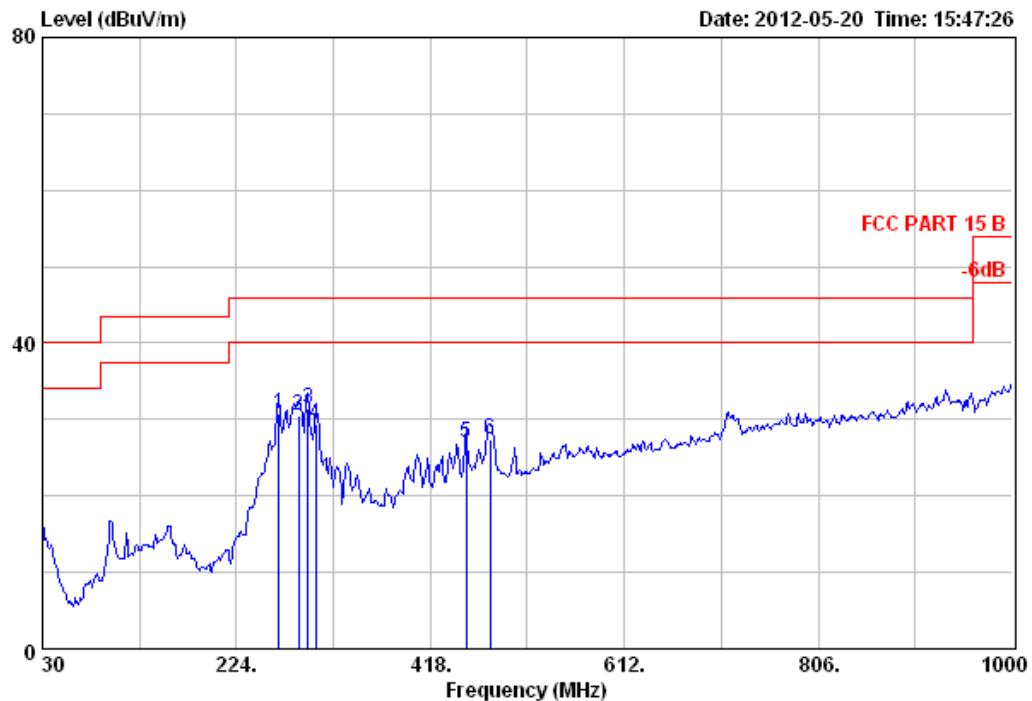
Site no. : 3m Chamber Data no. : 431
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	266.68	12.79	5.00	14.56	32.35	46.00	QP
2	293.84	12.92	5.21	13.25	31.38	46.00	QP
3	303.54	13.08	5.27	11.39	29.74	46.00	QP
4	405.39	16.18	6.05	1.08	23.31	46.00	QP
5	453.89	16.62	6.41	4.47	27.50	46.00	QP
6	475.23	17.33	6.61	2.58	26.52	46.00	QP

EST Technology

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Data: 432 File: D:\test data\2012\0\Desay.EMI (453)

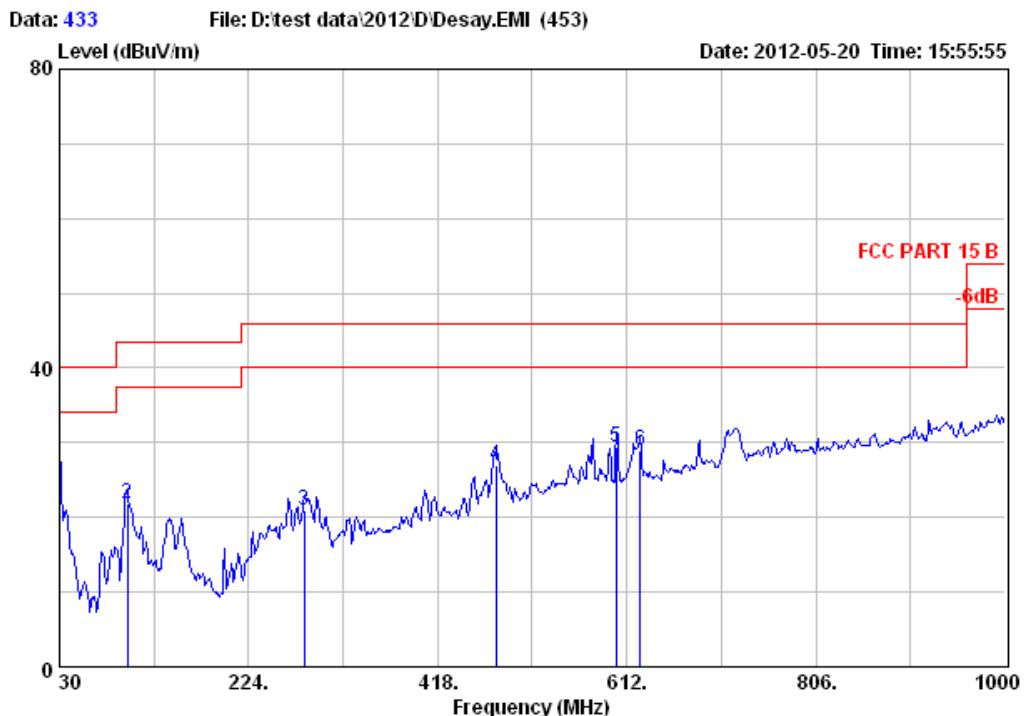


Site no. : 3m Chamber Data no. : 432
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	12.87	30.66	46.00	15.34	QP
2 286.08	12.59	5.14	12.84	30.57	46.00	15.43	QP
3 295.78	12.98	5.21	13.23	31.42	46.00	14.58	QP
4 303.54	13.08	5.27	11.16	29.51	46.00	16.49	QP
5 453.89	16.62	6.41	3.90	26.93	46.00	19.07	QP
6 478.14	17.40	6.63	3.45	27.48	46.00	18.52	QP

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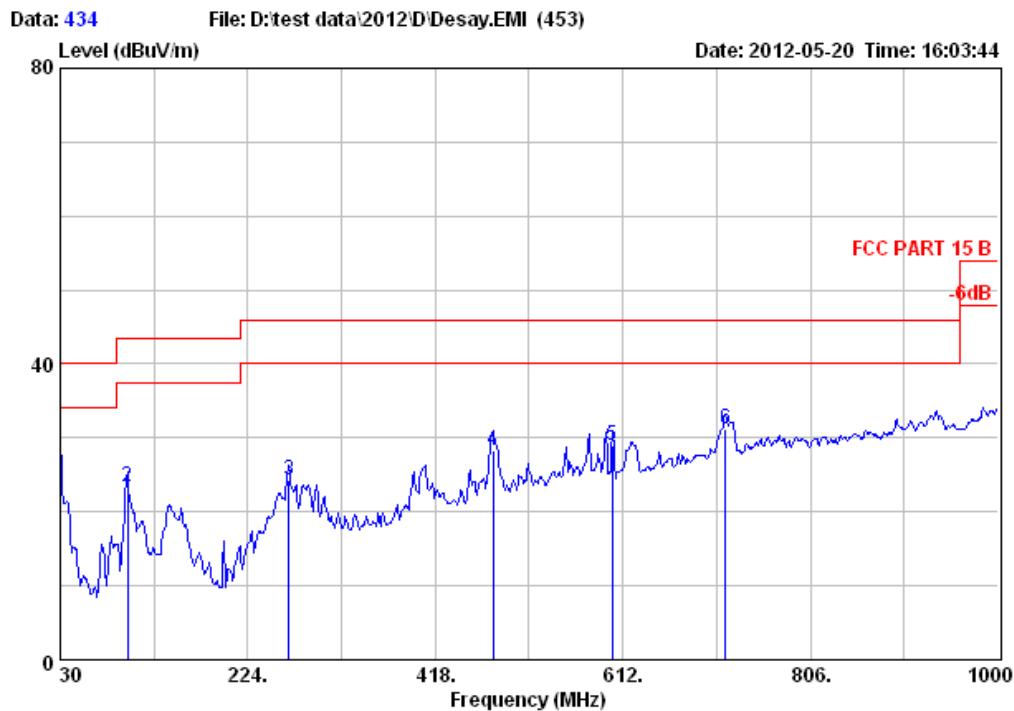


Site no. : 3m Chamber Data no. : 433
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	6.82	27.24	40.00	12.76	QP
2 99.84	9.45	3.04	9.28	21.77	43.50	21.73	QP
3 281.23	12.41	5.09	3.37	20.87	46.00	25.13	QP
4 478.14	17.40	6.63	2.87	26.90	46.00	19.10	QP
5 601.33	19.63	7.36	2.42	29.41	46.00	16.59	QP
6 625.58	20.11	7.54	1.27	28.92	46.00	17.08	QP

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Site no. : 3m Chamber Data no. : 434
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

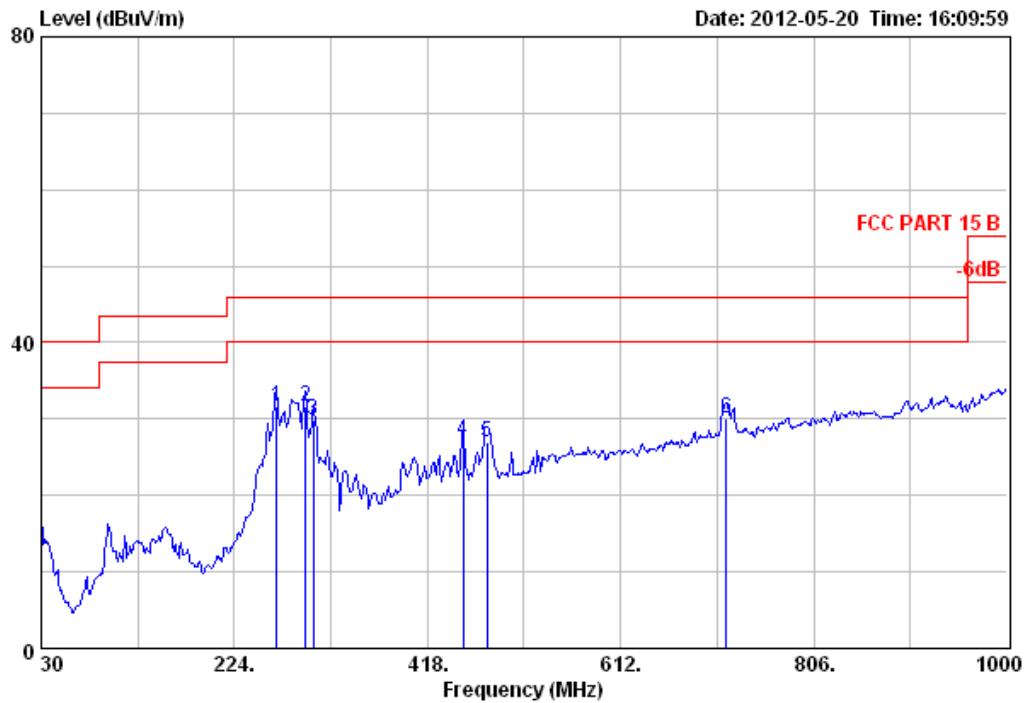
Freq. (MHz)	Ant. Factor	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	7.26	27.68	40.00	12.32	QP
2 99.84	9.45	3.04	10.83	23.32	43.50	20.18	QP
3 266.68	12.79	5.00	6.39	24.18	46.00	21.82	QP
4 478.14	17.40	6.63	4.22	28.25	46.00	17.75	QP
5 601.33	19.63	7.36	1.89	28.88	46.00	17.12	QP
6 717.73	21.39	7.85	2.04	31.28	46.00	14.72	QP

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Data: 435 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 16:09:59



Site no. : 3m Chamber Data no. : 435
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

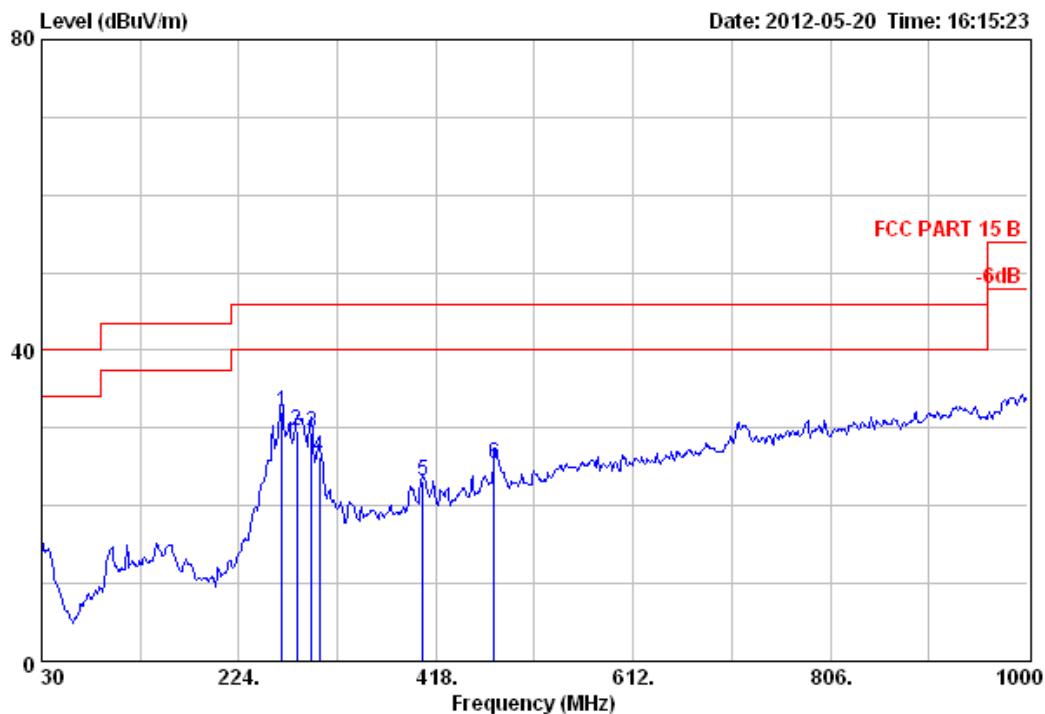
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)			
1 266.68	12.79	5.00	13.84	31.63	46.00	14.37	QP	
2 295.78	12.98	5.21	13.42	31.61	46.00	14.39	QP	
3 303.54	13.08	5.27	11.56	29.91	46.00	16.09	QP	
4 453.89	16.62	6.41	4.14	27.17	46.00	18.83	QP	
5 478.14	17.40	6.63	2.91	26.94	46.00	19.06	QP	
6 717.73	21.39	7.85	0.85	30.09	46.00	15.91	QP	

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Data: 436 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 16:15:23



Site no. : 3m Chamber Data no. : 436
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

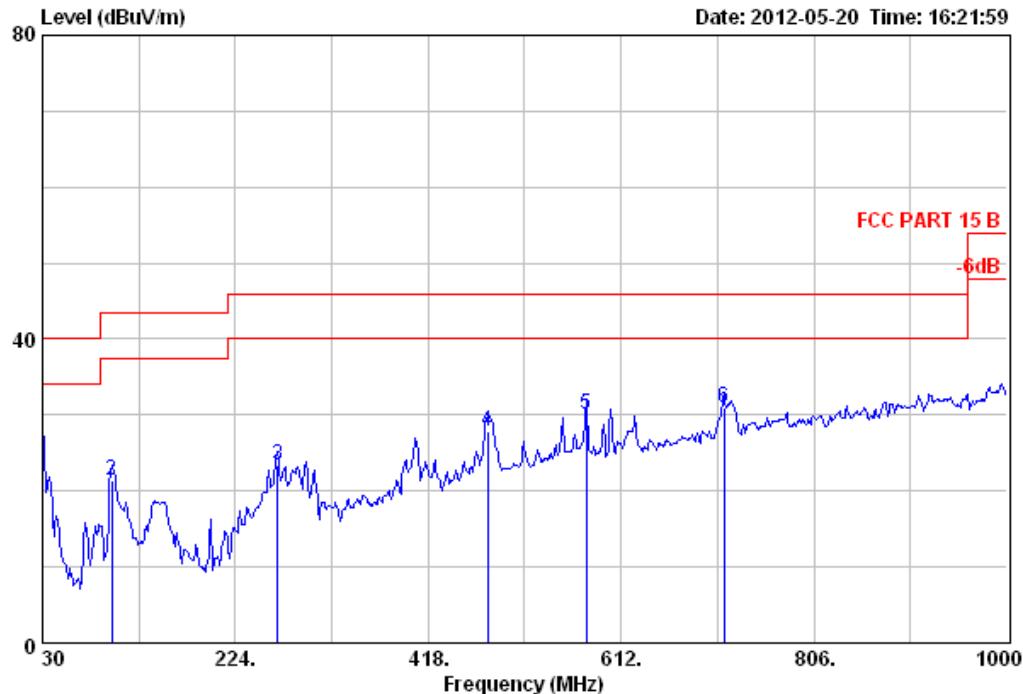
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	14.30	32.09	46.00	13.91	QP
2 281.23	12.41	5.09	12.18	29.68	46.00	16.32	QP
3 295.78	12.98	5.21	11.27	29.46	46.00	16.54	QP
4 303.54	13.08	5.27	7.88	26.23	46.00	19.77	QP
5 405.39	16.18	6.05	0.85	23.08	46.00	22.92	QP
6 475.23	17.33	6.61	1.54	25.48	46.00	20.52	QP

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Data: 437 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 16:21:59

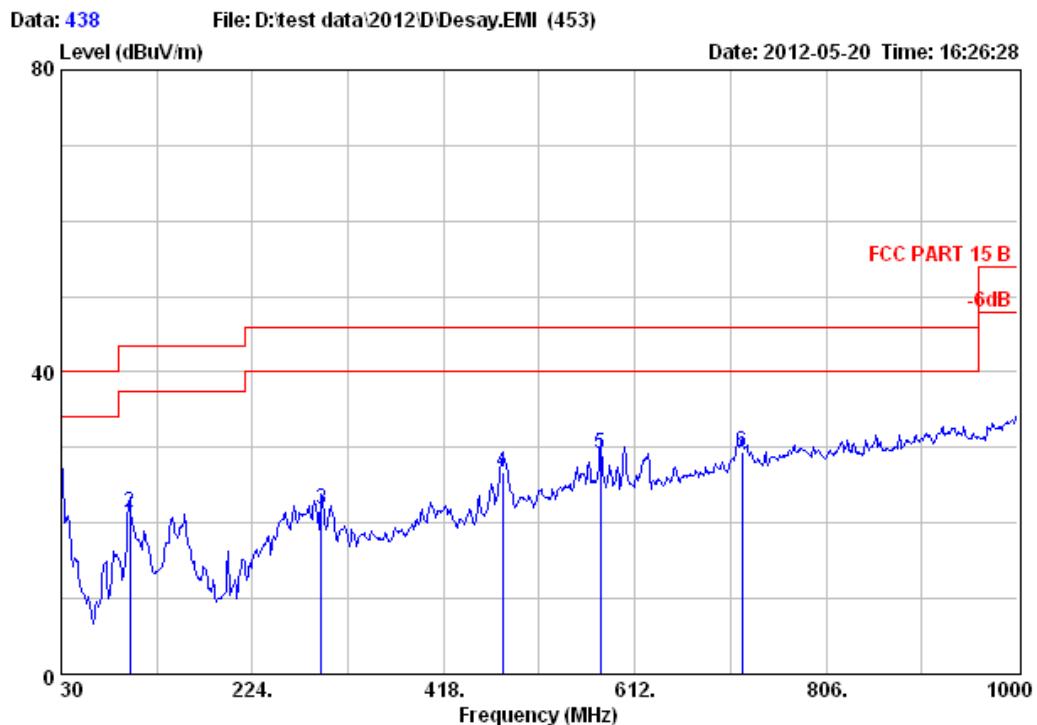


Site no. : 3m Chamber Data no. : 437
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dB _B V)	Level (dB _B V/m)	Limits (dB _B V/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	6.23	26.65	40.00	13.35	QP
2 99.84	9.45	3.04	8.87	21.36	43.50	22.14	QP
3 266.68	12.79	5.00	5.50	23.29	46.00	22.71	QP
4 478.14	17.40	6.63	3.86	27.89	46.00	18.11	QP
5 577.08	19.53	7.22	3.23	29.98	46.00	16.02	QP
6 715.79	21.30	7.86	1.77	30.93	46.00	15.07	QP

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Site no. : 3m Chamber Data no. : 438
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

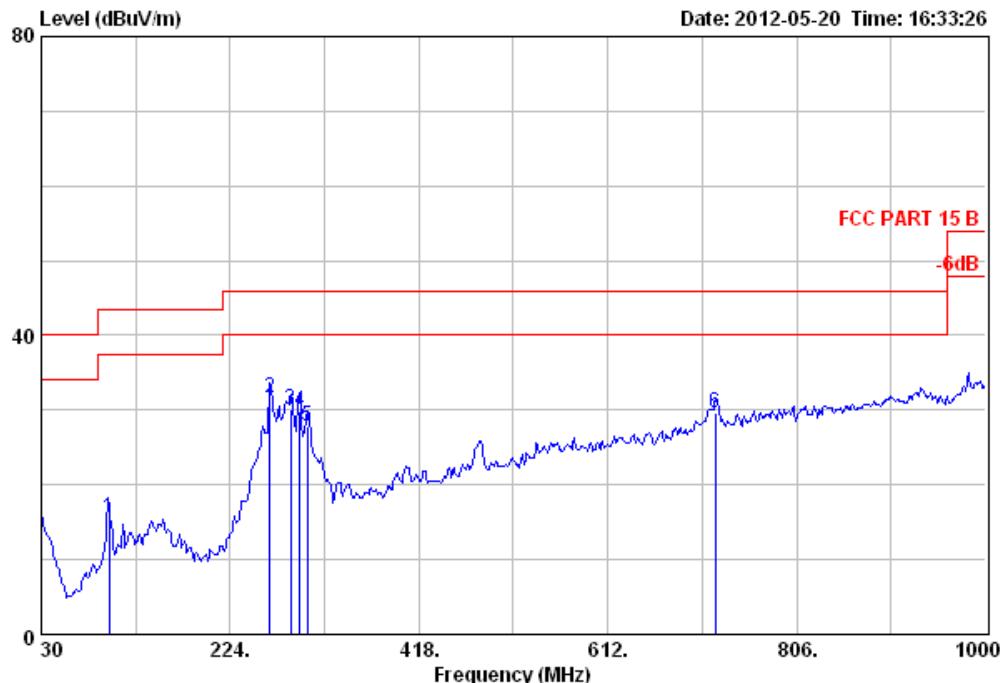
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 30.00	18.51	1.91	6.09	26.51	40.00	13.49	QP	
2 99.84	9.45	3.04	9.01	21.50	43.50	22.00	QP	
3 293.84	12.92	5.21	3.63	21.76	46.00	24.24	QP	
4 478.14	17.40	6.63	2.66	26.69	46.00	19.31	QP	
5 577.08	19.53	7.22	2.45	29.20	46.00	16.80	QP	
6 720.64	21.55	7.82	-0.06	29.31	46.00	16.69	QP	

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Data: 439 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 16:33:26

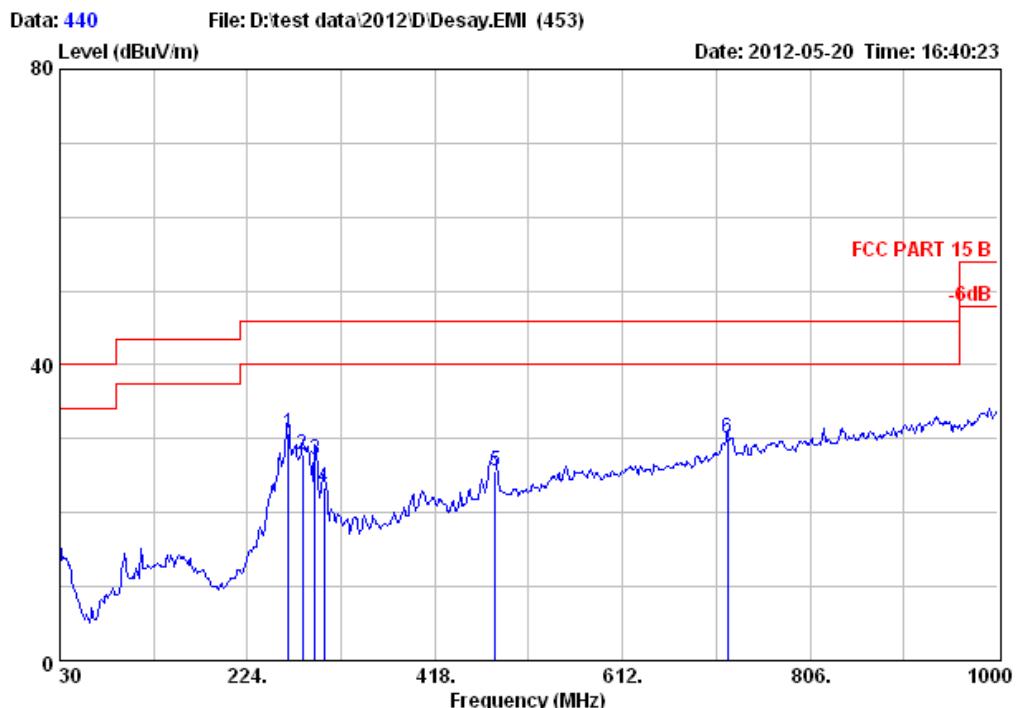


Site no. : 3m Chamber Data no. : 439
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 99.84	9.45	3.04	3.07	15.56	43.50	27.94	QP
2 264.74	12.94	4.97	13.79	31.70	46.00	14.30	QP
3 286.08	12.59	5.14	12.39	30.12	46.00	15.88	QP
4 295.78	12.98	5.21	11.69	29.88	46.00	16.12	QP
5 303.54	13.08	5.27	9.45	27.80	46.00	18.20	QP
6 722.58	21.67	7.80	0.10	29.57	46.00	16.43	QP

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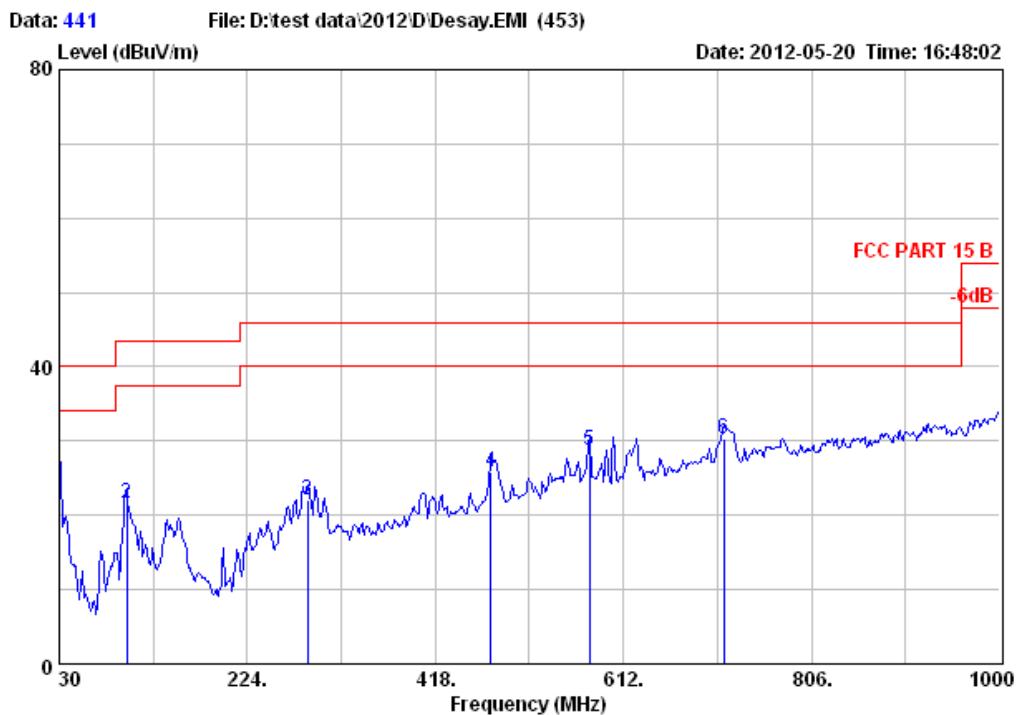


Site no. : 3m Chamber Data no. : 440
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	12.93	30.72	46.00	15.28	QP
2 281.23	12.41	5.09	10.40	27.90	46.00	18.10	QP
3 293.84	12.92	5.21	8.99	27.12	46.00	18.88	QP
4 303.54	13.08	5.27	5.06	23.41	46.00	22.59	QP
5 480.08	17.45	6.60	1.60	25.65	46.00	20.35	QP
6 720.64	21.55	7.82	0.80	30.17	46.00	15.83	QP

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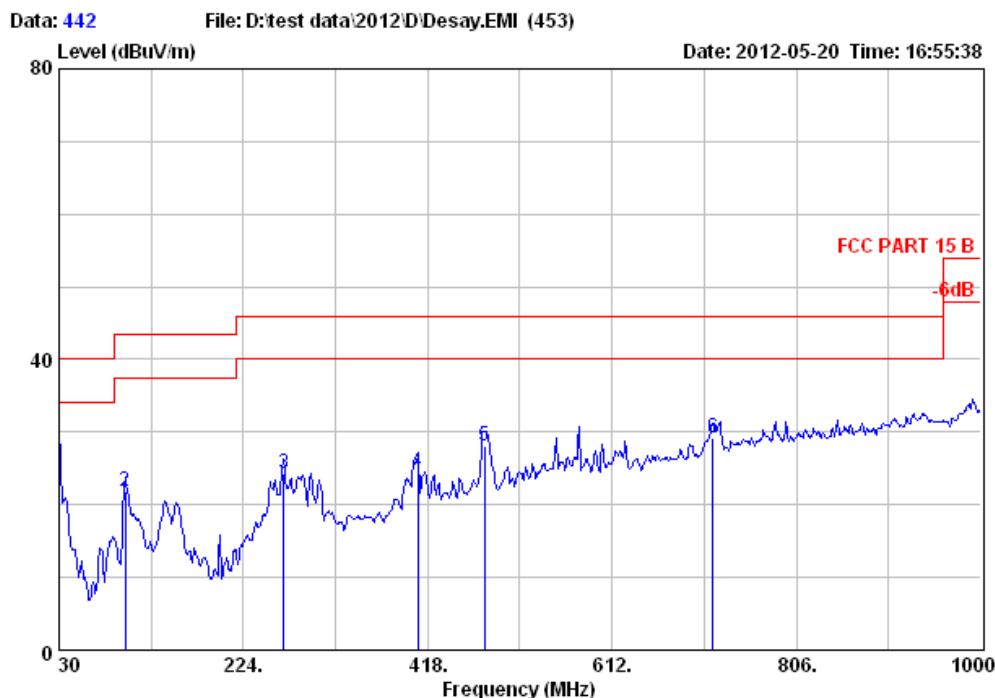


Site no. : 3m Chamber Data no. : 441
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	6.40	26.82	40.00	13.18	QP
2 99.84	9.45	3.04	9.04	21.53	43.50	21.97	QP
3 286.08	12.59	5.14	4.29	22.02	46.00	23.98	QP
4 475.23	17.33	6.61	1.89	25.83	46.00	20.17	QP
5 577.08	19.53	7.22	1.96	28.71	46.00	17.29	QP
6 715.79	21.30	7.86	1.11	30.27	46.00	15.73	QP

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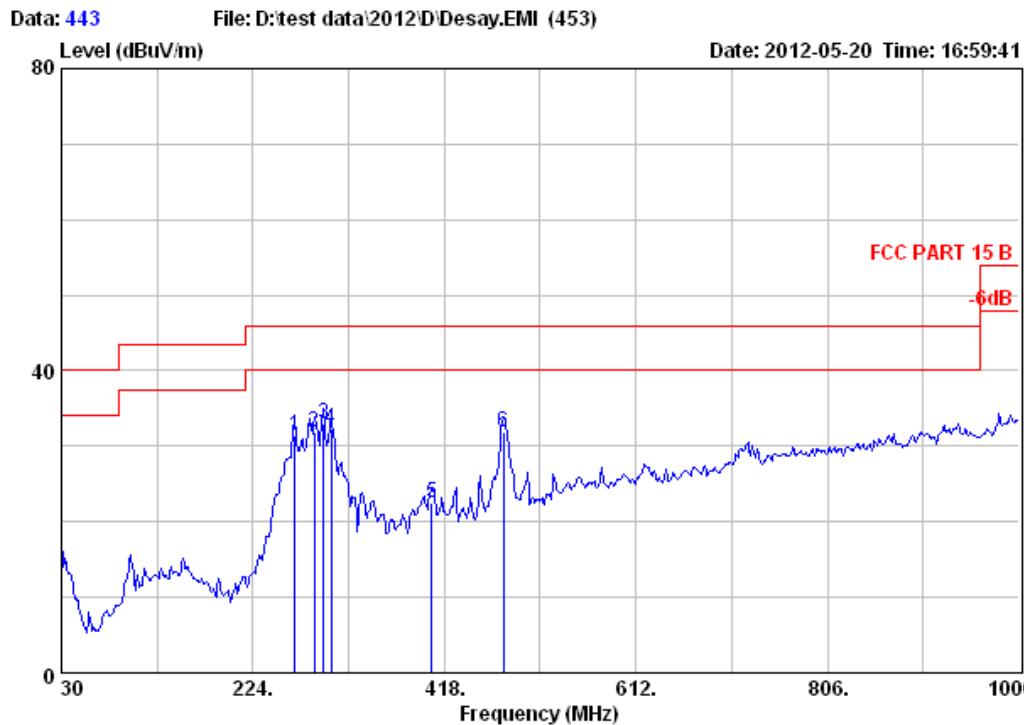


Site no. : 3m Chamber Data no. : 442
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	7.57	27.99	40.00	12.01	QP
2 99.84	9.45	3.04	9.44	21.93	43.50	21.57	QP
3 266.68	12.79	5.00	6.54	24.33	46.00	21.67	QP
4 407.33	16.22	6.08	2.19	24.49	46.00	21.51	QP
5 478.14	17.40	6.63	4.11	28.14	46.00	17.86	QP
6 717.73	21.39	7.85	0.06	29.30	46.00	16.70	QP

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Site no. : 3m Chamber Data no. : 443
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

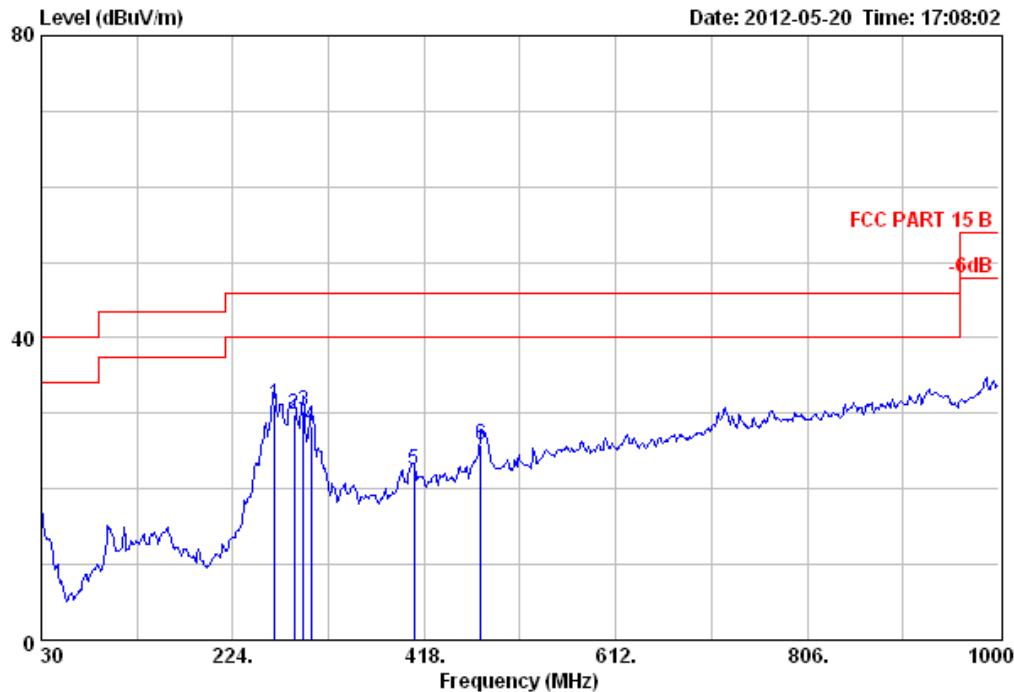
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	13.55	31.34	46.00	14.66	QP
2 286.08	12.59	5.14	14.10	31.83	46.00	14.17	QP
3 295.78	12.98	5.21	14.72	32.91	46.00	13.09	QP
4 303.54	13.08	5.27	13.93	32.28	46.00	13.72	QP
5 405.39	16.18	6.05	0.23	22.46	46.00	23.54	QP
6 478.14	17.40	6.63	7.81	31.84	46.00	14.16	QP

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Data: 444 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:08:02



Site no. : 3m Chamber Data no. : 444
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

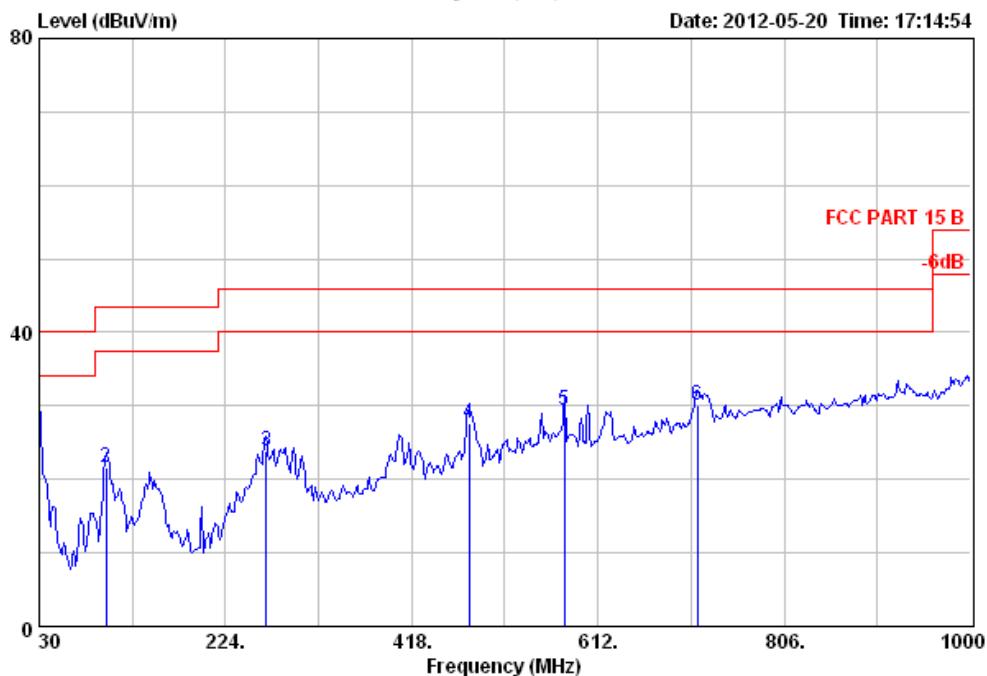
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	13.43	31.22	46.00	14.78	QP
2 286.08	12.59	5.14	12.03	29.76	46.00	16.24	QP
3 295.78	12.98	5.21	12.22	30.41	46.00	15.59	QP
4 303.54	13.08	5.27	10.01	28.36	46.00	17.64	QP
5 407.33	16.22	6.08	0.16	22.46	46.00	23.54	QP
6 475.23	17.33	6.61	1.83	25.77	46.00	20.23	QP

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Data: 445 File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:14:54



Site no. : 3m Chamber Data no. : 445
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	Ant.		Cable	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 30.00	18.51	1.91	8.16	28.58	40.00	11.42	QP	
2 99.84	9.45	3.04	9.13	21.62	43.50	21.88	QP	
3 266.68	12.79	5.00	6.07	23.86	46.00	22.14	QP	
4 478.14	17.40	6.63	3.63	27.66	46.00	18.34	QP	
5 577.08	19.53	7.22	2.69	29.44	46.00	16.56	QP	
6 715.79	21.30	7.86	0.83	29.99	46.00	16.01	QP	

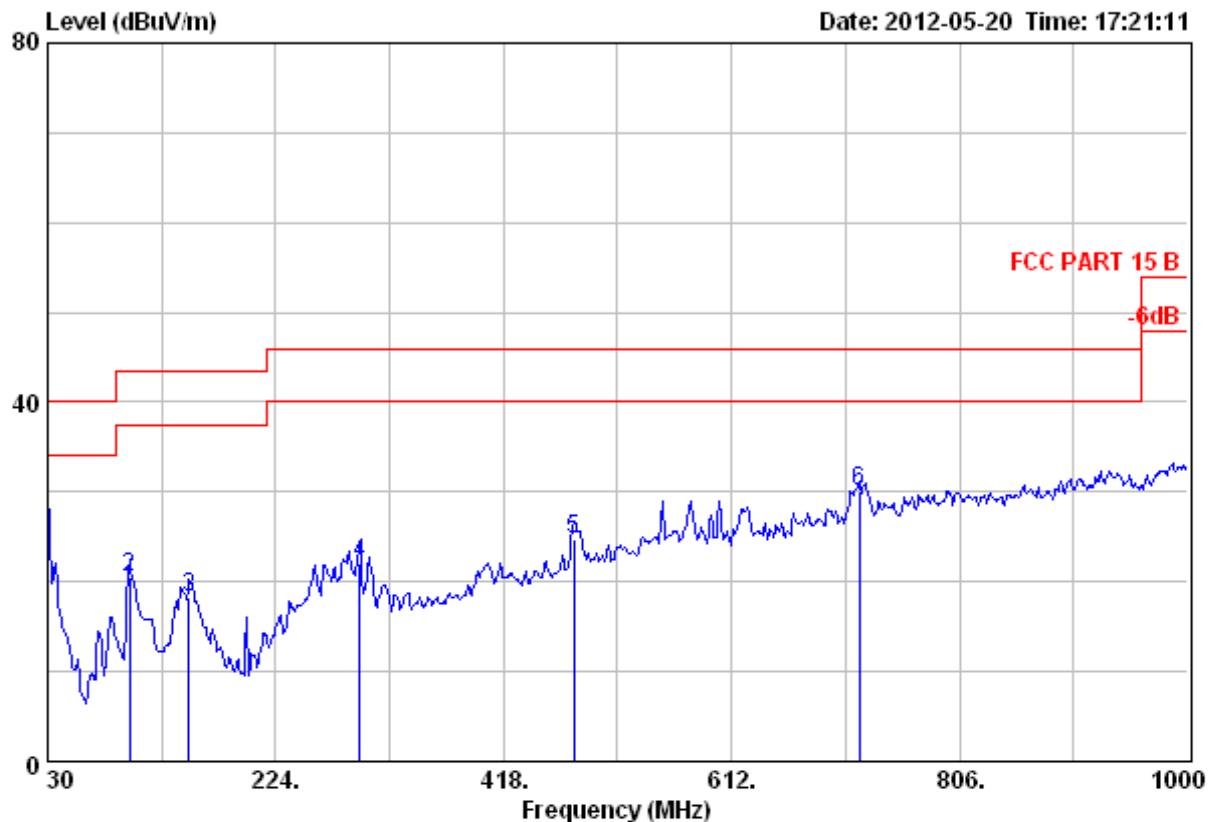
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Data: 446

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:21:11



Site no. : 3m Chamber Data no. : 446
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	30.00	18.51	1.91	7.74	28.16	40.00	11.84	QP
2	99.84	9.45	3.04	7.96	20.45	43.50	23.05	QP
3	150.28	10.86	3.78	3.57	18.21	43.50	25.29	QP
4	295.78	12.98	5.21	3.89	22.08	46.00	23.92	QP
5	478.14	17.40	6.63	0.79	24.82	46.00	21.18	QP
6	720.64	21.55	7.82	0.75	30.12	46.00	15.88	QP

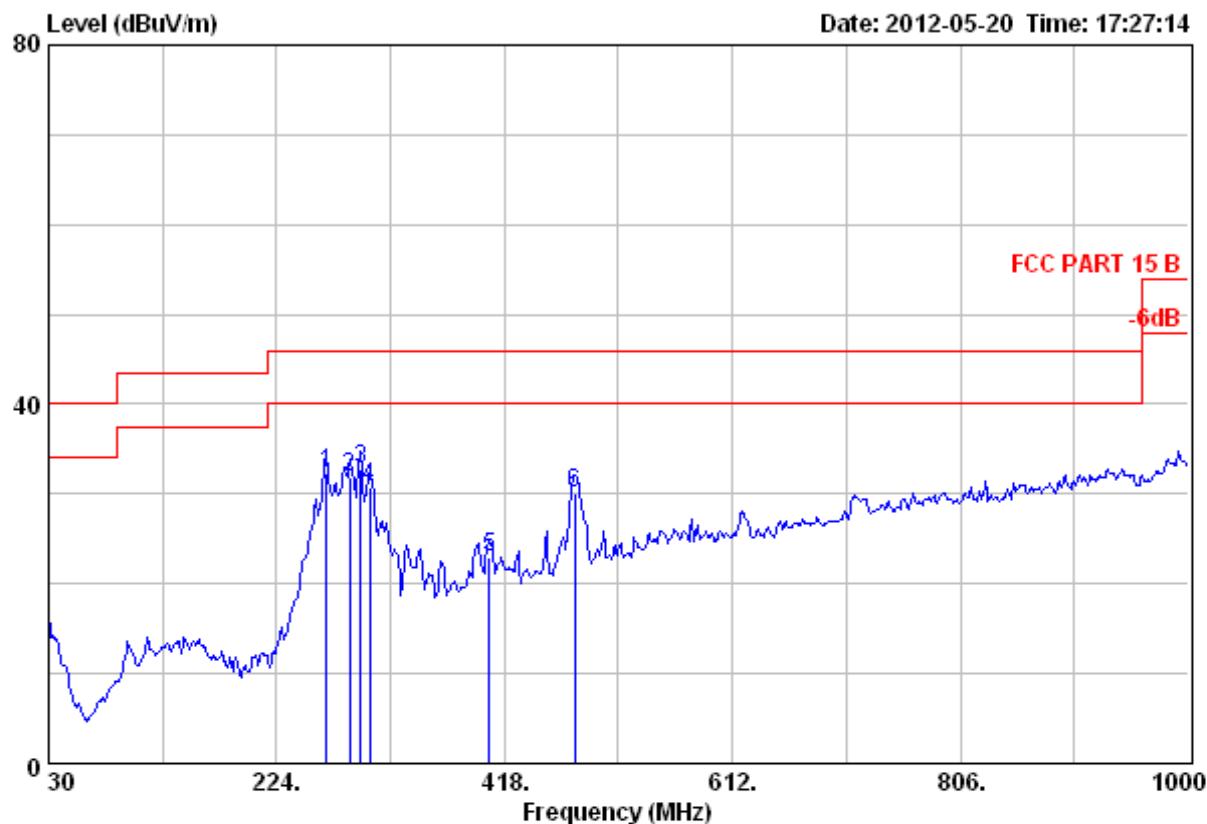
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Data: 447

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:27:14



Site no. : 3m Chamber Data no. : 447
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 266.68	12.79	5.00	14.58	32.37	46.00	13.63	QP
2 286.08	12.59	5.14	14.08	31.81	46.00	14.19	QP
3 295.78	12.98	5.21	14.56	32.75	46.00	13.25	QP
4 303.54	13.08	5.27	12.41	30.76	46.00	15.24	QP
5 405.39	16.18	6.05	0.74	22.97	46.00	23.03	QP
6 478.14	17.40	6.63	6.14	30.17	46.00	15.83	QP

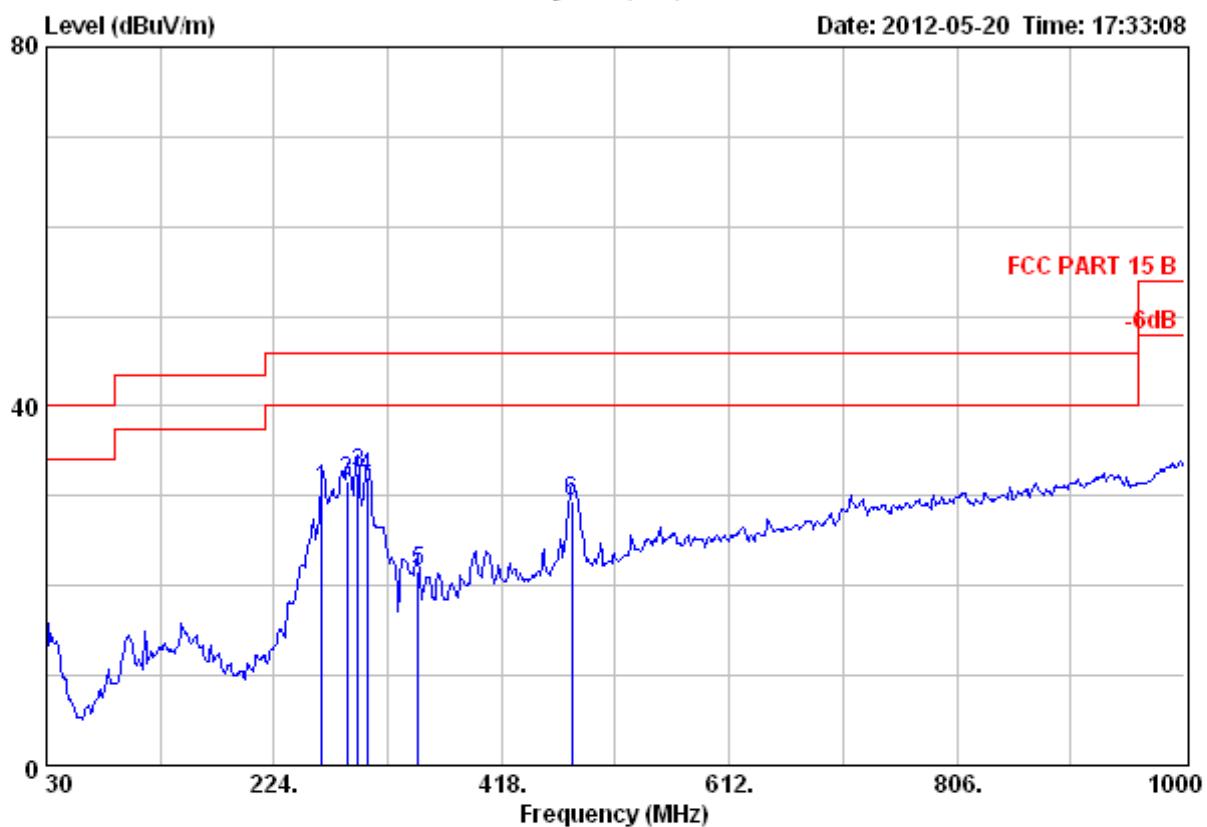
EST Technology

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 Fax: +86-769-83081878

Data: 448

File: D:\test data\2012\Desay.EMI (453)

Date: 2012-05-20 Time: 17:33:08



Site no. : 3m Chamber Data no. : 448
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 264.74	12.94	4.97	12.89	30.80	46.00	15.20	QP	
2 286.08	12.59	5.14	13.89	31.62	46.00	14.38	QP	
3 295.78	12.98	5.21	14.37	32.56	46.00	13.44	QP	
4 303.54	13.08	5.27	13.82	32.17	46.00	13.83	QP	
5 347.19	14.38	5.67	1.46	21.51	46.00	24.49	QP	
6 478.14	17.40	6.63	5.38	29.41	46.00	16.59	QP	

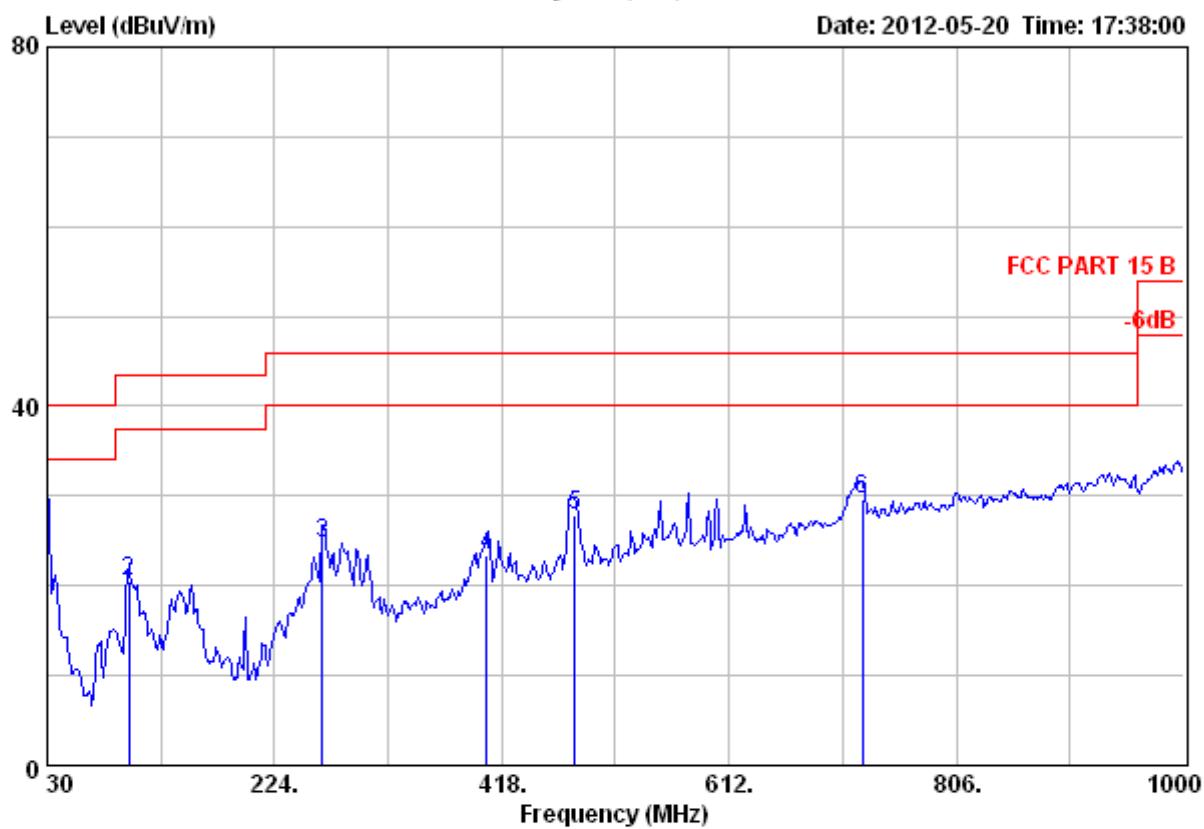
EST Technology

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Data: 449

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:38:00



Site no. : 3m Chamber Data no. : 449
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	9.05	29.47	40.00	10.53	QP
2 99.84	9.45	3.04	7.93	20.42	43.50	23.08	QP
3 264.74	12.94	4.97	6.90	24.81	46.00	21.19	QP
4 405.39	16.18	6.05	1.19	23.42	46.00	22.58	QP
5 480.08	17.45	6.60	3.89	27.94	46.00	18.06	QP
6 725.49	21.85	7.82	0.06	29.73	46.00	16.27	QP

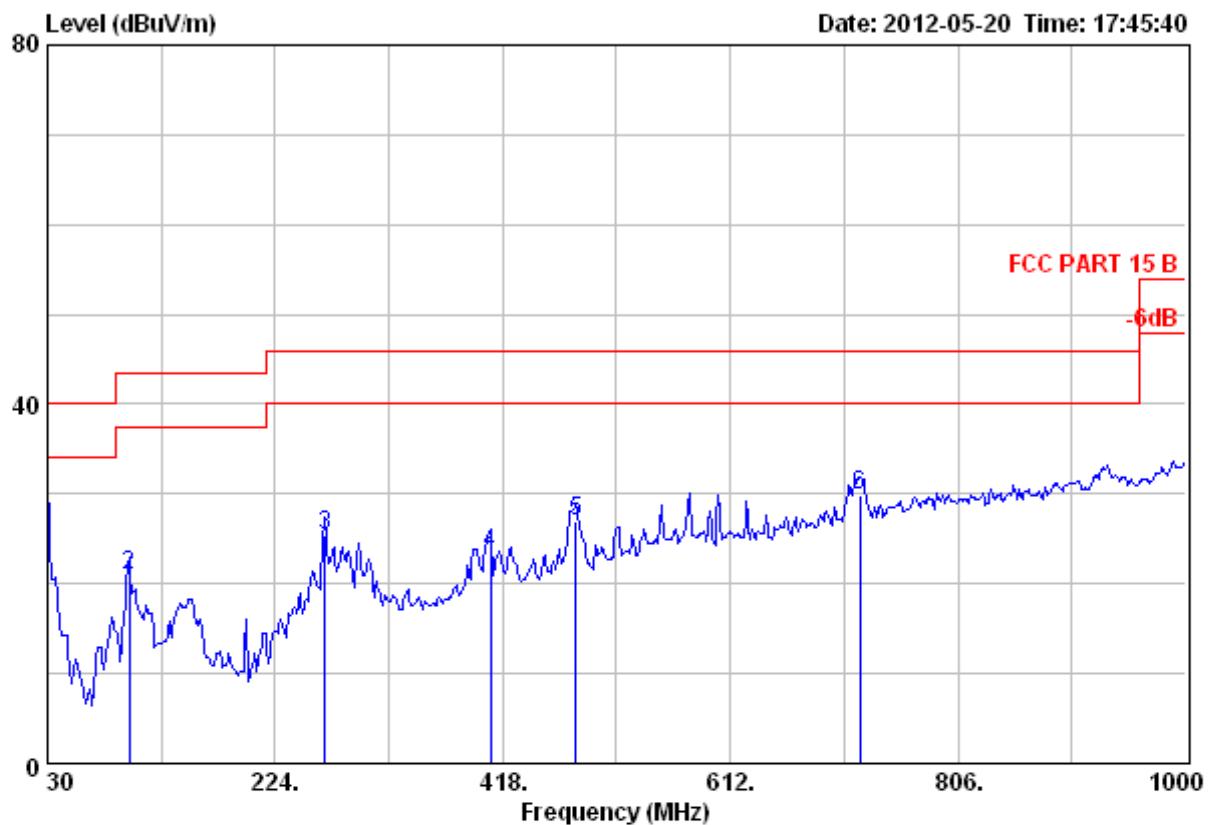
EST Technology

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Data: 450

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:45:40



Site no. : 3m Chamber Data no. : 450
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 30.00	18.51	1.91	8.85	29.27	40.00	10.73	QP	
2 99.84	9.45	3.04	8.36	20.85	43.50	22.65	QP	
3 266.68	12.79	5.00	7.66	25.45	46.00	20.55	QP	
4 407.33	16.22	6.08	1.07	23.37	46.00	22.63	QP	
5 480.08	17.45	6.60	2.99	27.04	46.00	18.96	QP	
6 722.58	21.67	7.80	0.34	29.81	46.00	16.19	QP	

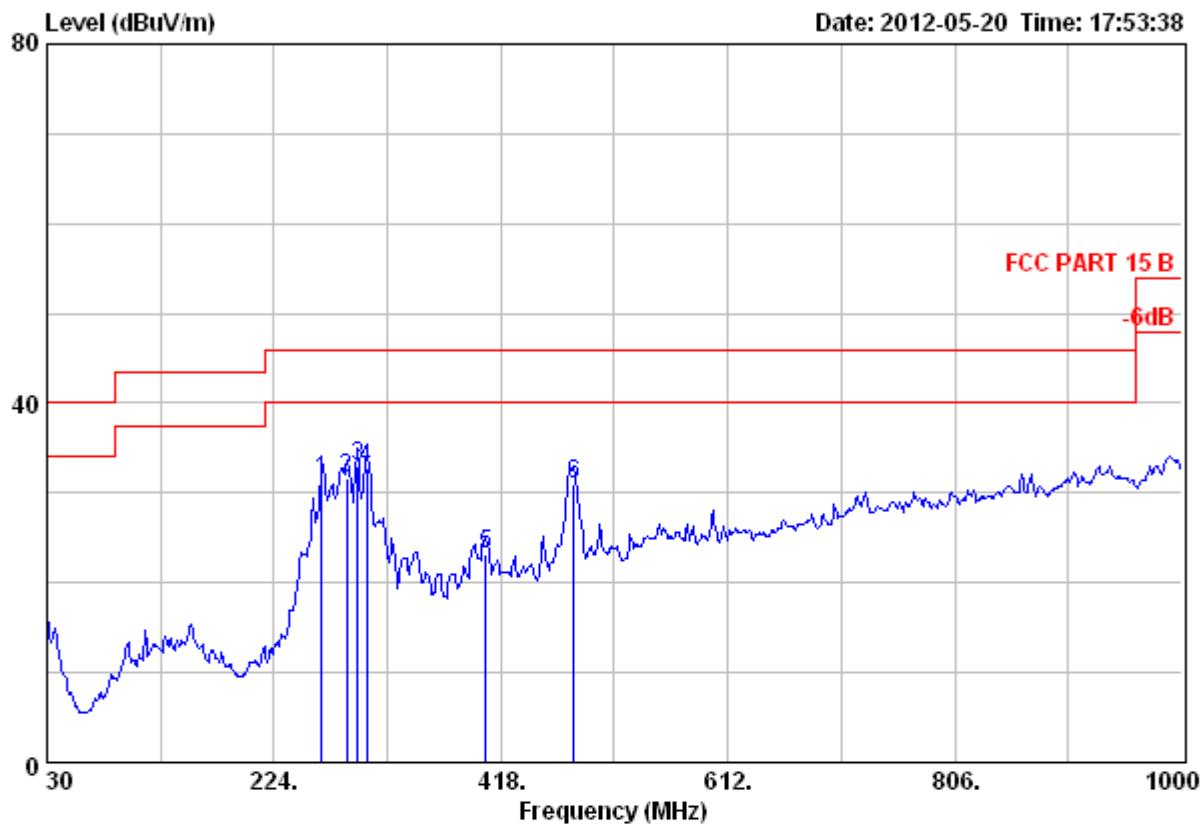
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Data: 451

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:53:38



Site no. : 3m Chamber Data no. : 451
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 264.74	12.94	4.97	13.42	31.33	46.00	14.67	QP
2 286.08	12.59	5.14	13.90	31.63	46.00	14.37	QP
3 295.78	12.98	5.21	14.69	32.88	46.00	13.12	QP
4 303.54	13.08	5.27	14.31	32.66	46.00	13.34	QP
5 405.39	16.18	6.05	0.89	23.12	46.00	22.88	QP
6 480.08	17.45	6.60	6.99	31.04	46.00	14.96	QP

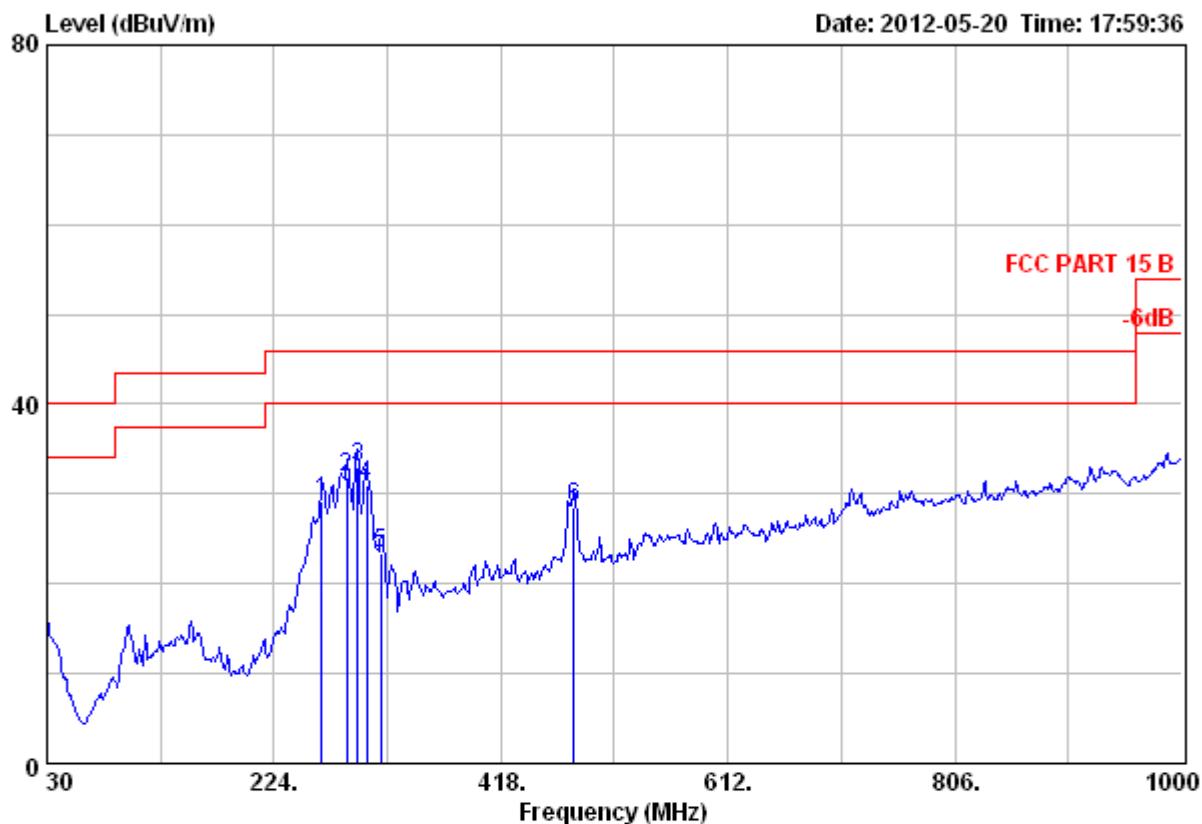
EST Technology

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Data: 452

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 17:59:36



Site no. : 3m Chamber Data no. : 452
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 264.74	12.94	4.97	11.21	29.12	46.00	16.88	QP	
2 286.08	12.59	5.14	14.08	31.81	46.00	14.19	QP	
3 295.78	12.98	5.21	14.71	32.90	46.00	13.10	QP	
4 303.54	13.08	5.27	12.73	31.08	46.00	14.92	QP	
5 315.18	13.39	5.33	4.78	23.50	46.00	22.50	QP	
6 480.08	17.45	6.60	4.57	28.62	46.00	17.38	QP	

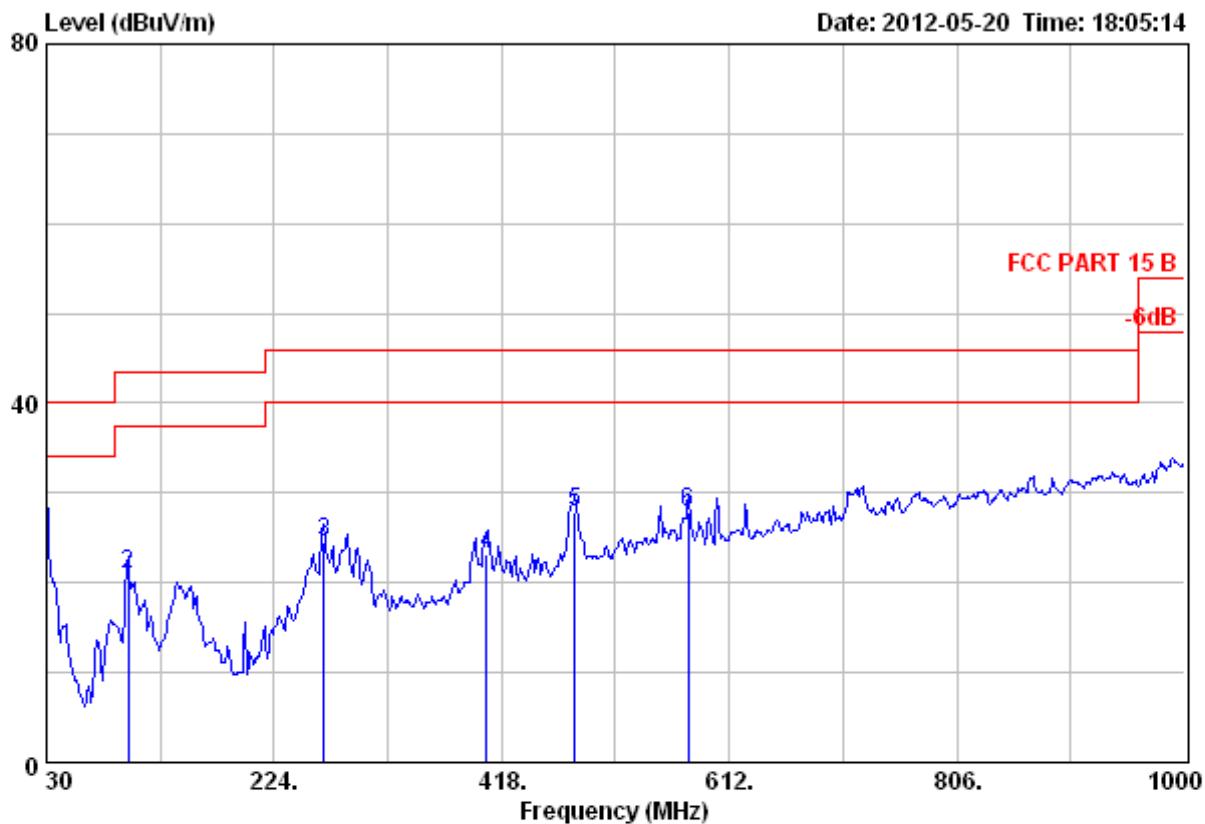
EST Technology

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Data: 453

File: D:\test data\2012\0\Desay.EMI (453)

Date: 2012-05-20 Time: 18:05:14



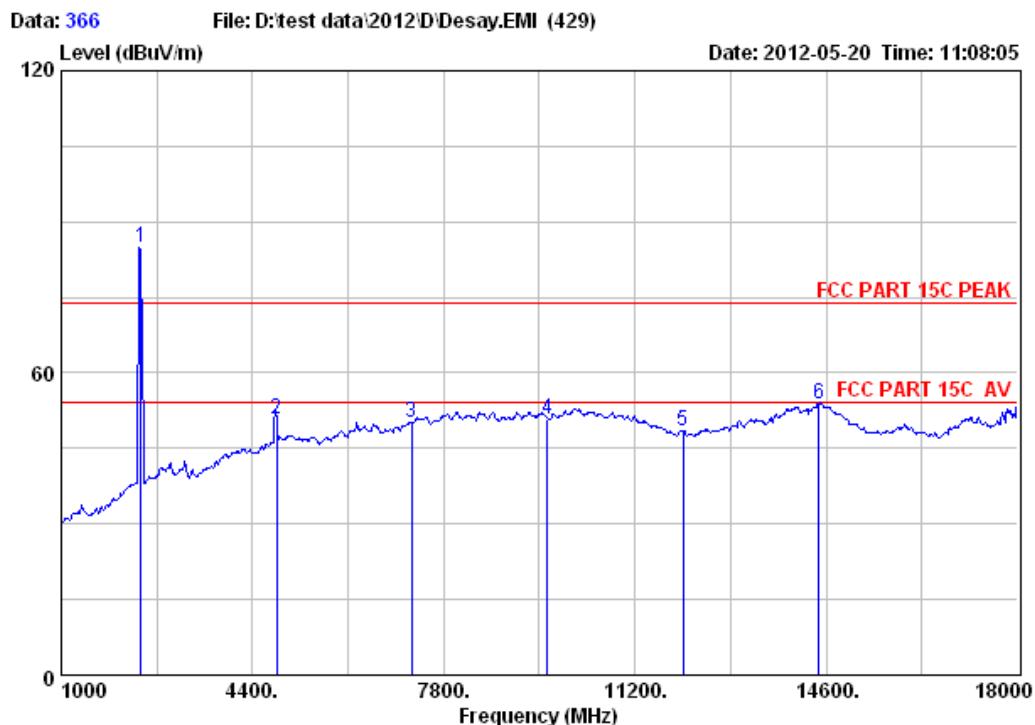
Site no. : 3m Chamber Data no. : 453
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	7.92	28.34	40.00	11.66	QP
2 99.84	9.45	3.04	8.57	21.06	43.50	22.44	QP
3 266.68	12.79	5.00	6.72	24.51	46.00	21.49	QP
4 405.39	16.18	6.05	0.98	23.21	46.00	22.79	QP
5 480.08	17.45	6.60	3.88	27.93	46.00	18.07	QP
6 577.08	19.53	7.22	1.00	27.75	46.00	18.25	QP

1000-18000 MHz

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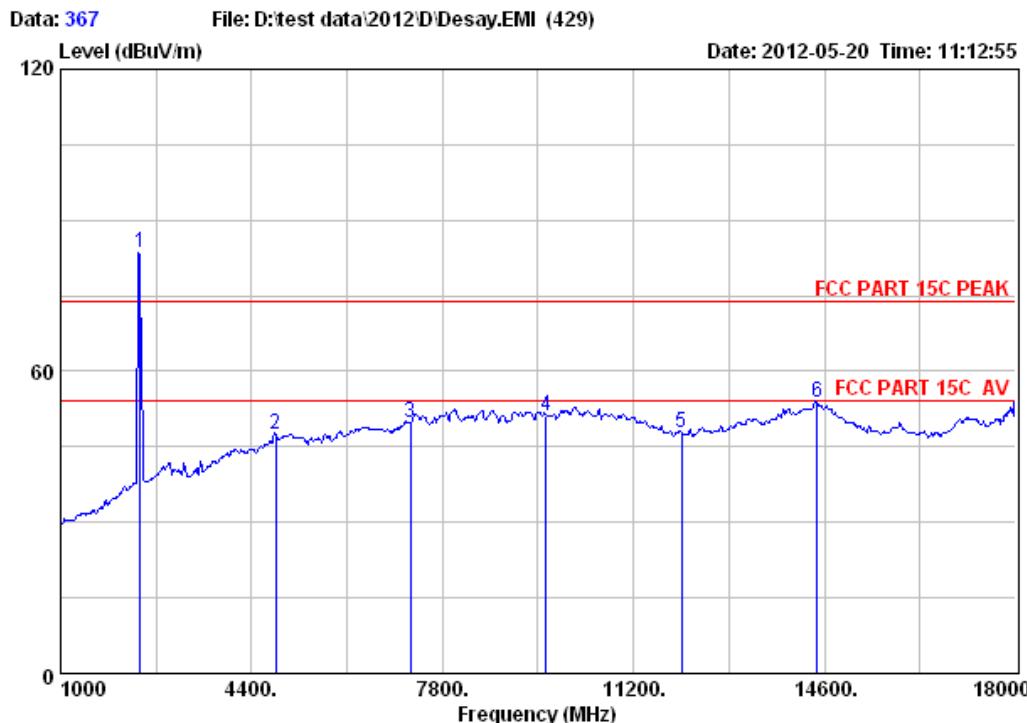
Site no. : 3m Chamber Data no. : 366
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2412.00	27.60	6.64	34.15	84.89	84.98	74.00	-10.98	Peak
2 4824.00	31.28	11.84	31.83	39.56	50.85	74.00	23.15	Peak
3 7236.00	36.53	11.55	32.07	34.07	50.08	74.00	23.92	Peak
4 9648.00	37.96	11.67	31.91	33.22	50.94	74.00	23.06	Peak
5 12060.00	38.64	11.35	35.58	34.00	48.41	74.00	25.59	Peak
6 14472.00	41.86	10.93	33.02	33.98	53.75	74.00	20.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 367
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2412.00	27.60	6.64	34.15	83.51	83.60	74.00	-9.60	Peak
2 4824.00	31.28	11.84	31.83	36.13	47.42	74.00	26.58	Peak
3 7236.00	36.53	11.55	32.07	33.71	49.72	74.00	24.28	Peak
4 9648.00	37.96	11.67	31.91	33.39	51.11	74.00	22.89	Peak
5 12060.00	38.64	11.35	35.58	33.33	47.74	74.00	26.26	Peak
6 14472.00	41.86	10.93	33.02	34.11	53.88	74.00	20.12	Peak

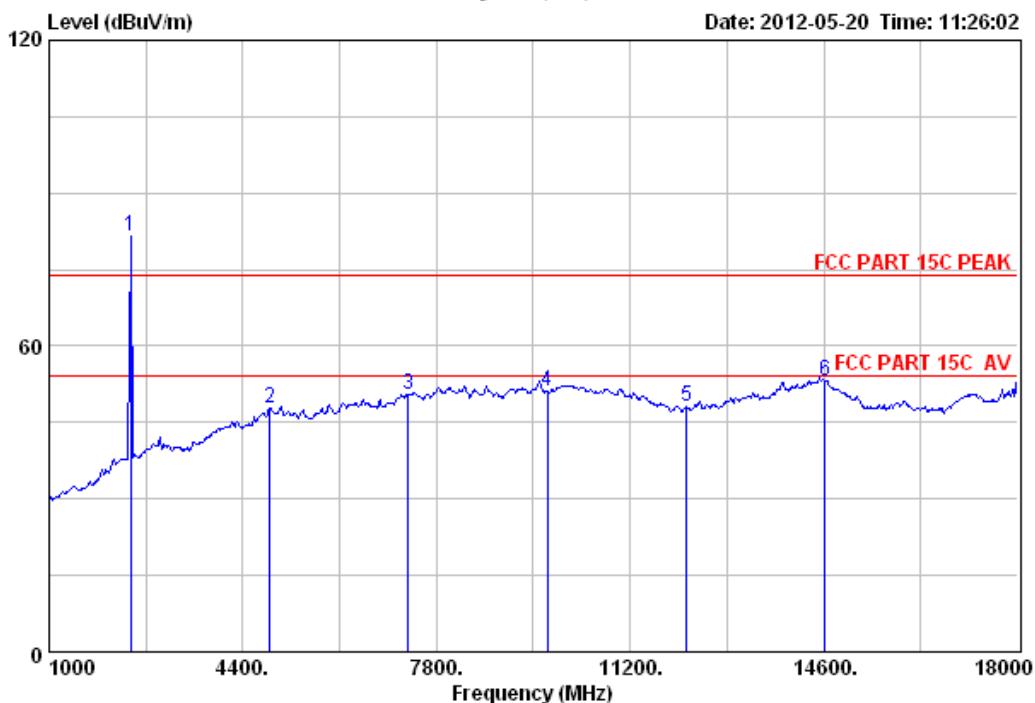
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 370 File: D:\test data\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 11:26:02



Site no. : 3m Chamber Data no. : 370
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Remark
1 2437.00	27.60	6.67	34.12	81.41	81.56	74.00	-7.56	Peak
2 4874.00	31.37	12.07	31.90	36.22	47.76	74.00	26.24	Peak
3 7311.00	36.55	11.57	31.99	34.37	50.50	74.00	23.50	Peak
4 9748.00	38.11	11.65	31.87	33.11	51.00	74.00	23.00	Peak
5 12185.00	38.67	11.22	35.69	33.77	47.97	74.00	26.03	Peak
6 14622.00	41.48	10.91	33.56	34.31	53.14	74.00	20.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

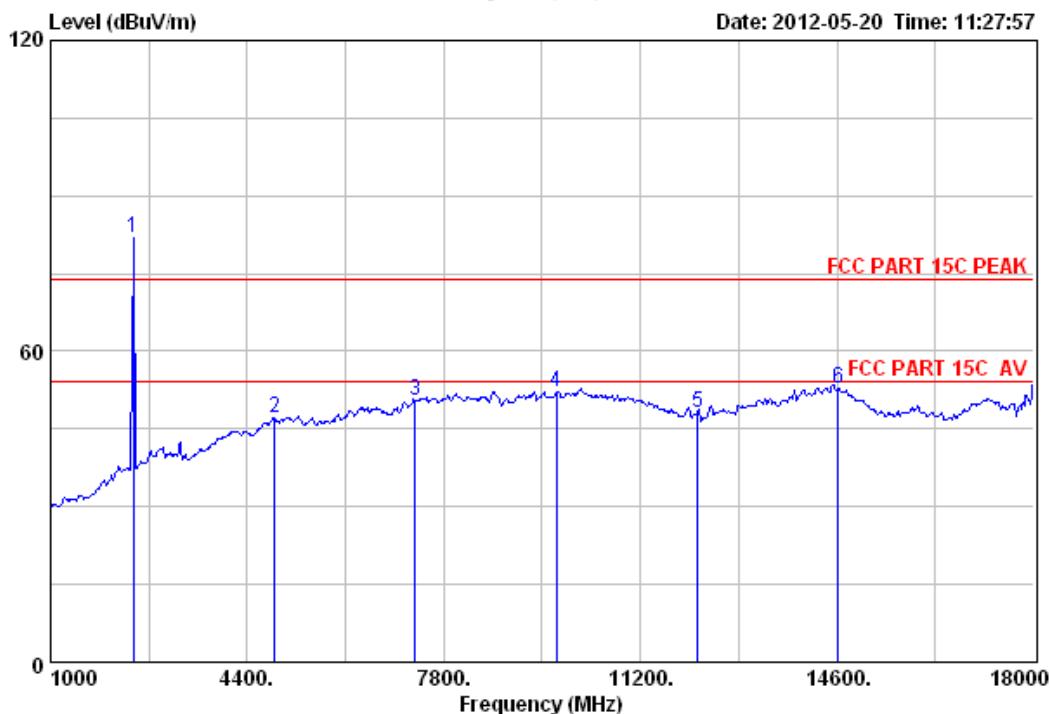
EST Technology

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Data: 371

File: D:\test data\2012\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 11:27:57



Site no. : 3m Chamber Data no. : 371
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	81.69	81.84	74.00	-7.84	Peak
2 4874.00	31.37	12.07	31.90	35.43	46.97	74.00	27.03	Peak
3 7311.00	36.55	11.57	31.99	34.40	50.53	74.00	23.47	Peak
4 9748.00	38.11	11.65	31.87	34.14	52.03	74.00	21.97	Peak
5 12185.00	38.67	11.22	35.69	33.91	48.11	74.00	25.89	Peak
6 14622.00	41.48	10.91	33.56	33.95	52.78	74.00	21.22	Peak

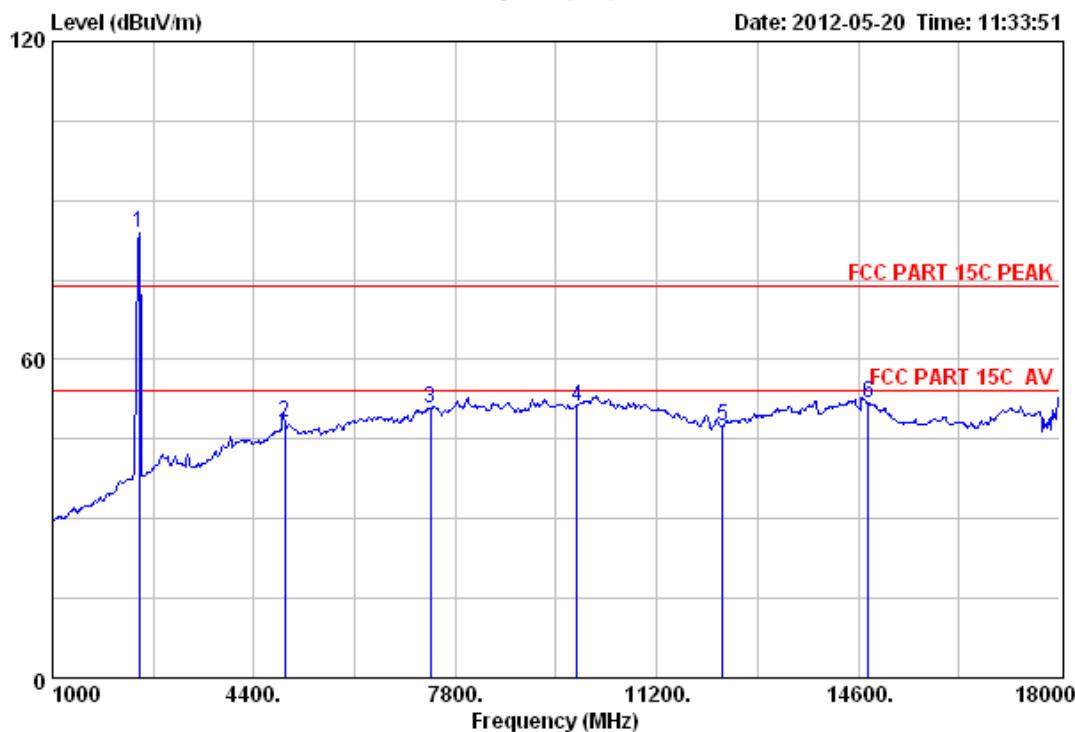
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 372 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 11:33:51



Site no.	:	3m Chamber	Data no. :	372
Dis. / Ant.	:	3m ANT 1-18G	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	Temp:25.6';Humi:56%;Press:101.52kPa		
Engineer	:	Tony		
EUT	:	BLU-RAY DISC PLAYER		
Power	:	AC 120V/60Hz		
M/N	:	DS-B202-R		
Test Mode	:	IEEE 802.11b CH11 2462TX		

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.00	27.58	6.69	34.06	83.80	84.01	74.00	-10.01	Peak
2 4924.00	31.45	12.29	31.95	36.39	48.18	74.00	25.82	Peak
3 7386.00	36.57	11.59	31.97	34.58	50.77	74.00	23.23	Peak
4 9848.00	38.16	11.63	31.81	33.23	51.21	74.00	22.79	Peak
5 12310.00	38.70	11.10	35.52	33.16	47.44	74.00	26.56	Peak
6 14772.00	41.01	10.89	34.03	33.82	51.69	74.00	22.31	Peak

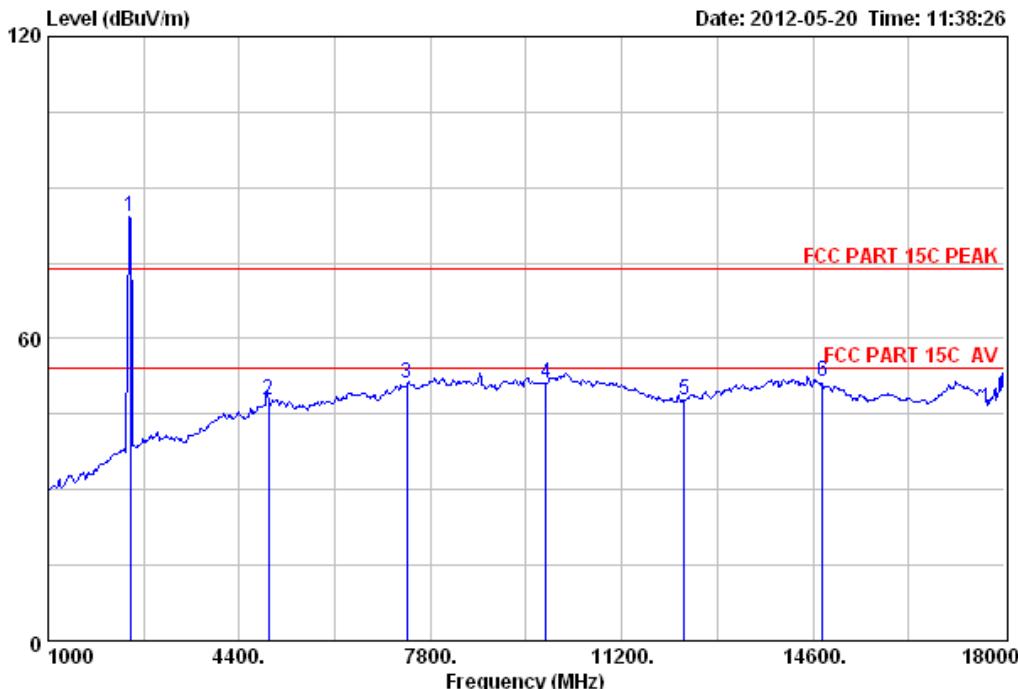
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 373 File: D:\test data\2012\DI\Desay.EMI (429)

Date: 2012-05-20 Time: 11:38:26



Site no. : 3m Chamber Data no. : 373
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

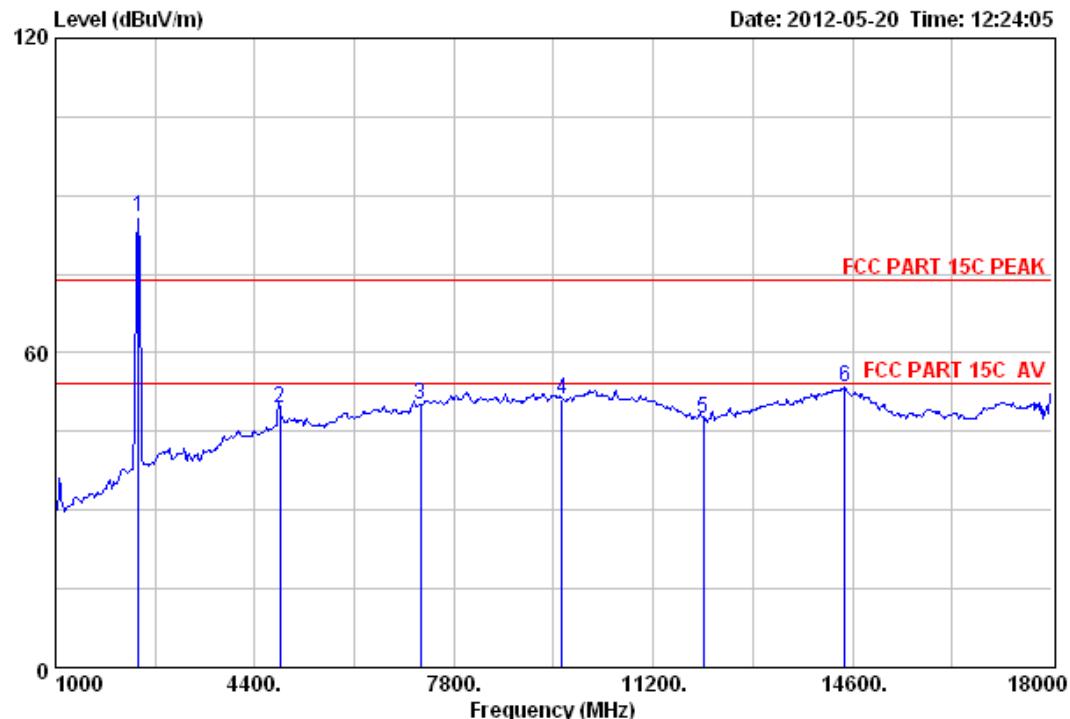
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.00	27.58	6.69	34.06	83.87	84.08	74.00	-10.08	Peak
2 4924.00	31.45	12.29	31.95	36.02	47.81	74.00	26.19	Peak
3 7386.00	36.57	11.59	31.97	34.90	51.09	74.00	22.91	Peak
4 9848.00	38.16	11.63	31.81	33.08	51.06	74.00	22.94	Peak
5 12310.00	38.70	11.10	35.52	33.51	47.79	74.00	26.21	Peak
6 14772.00	41.01	10.89	34.03	33.67	51.54	74.00	22.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 376 File: D:\test data\2012\0\Desay.EMI (429)



Site no. : 3m Chamber Data no. : 376
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant.		Cable	Amp	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2412.00	27.60	6.64	34.15	85.68	85.77	74.00	-11.77	Peak	
2 4824.00	31.28	11.84	31.83	38.17	49.46	74.00	24.54	Peak	
3 7236.00	36.53	11.55	32.07	34.26	50.27	74.00	23.73	Peak	
4 9648.00	37.96	11.67	31.91	33.34	51.06	74.00	22.94	Peak	
5 12060.00	38.64	11.35	35.58	33.12	47.53	74.00	26.47	Peak	
6 14472.00	41.86	10.93	33.02	33.56	53.33	74.00	20.67	Peak	

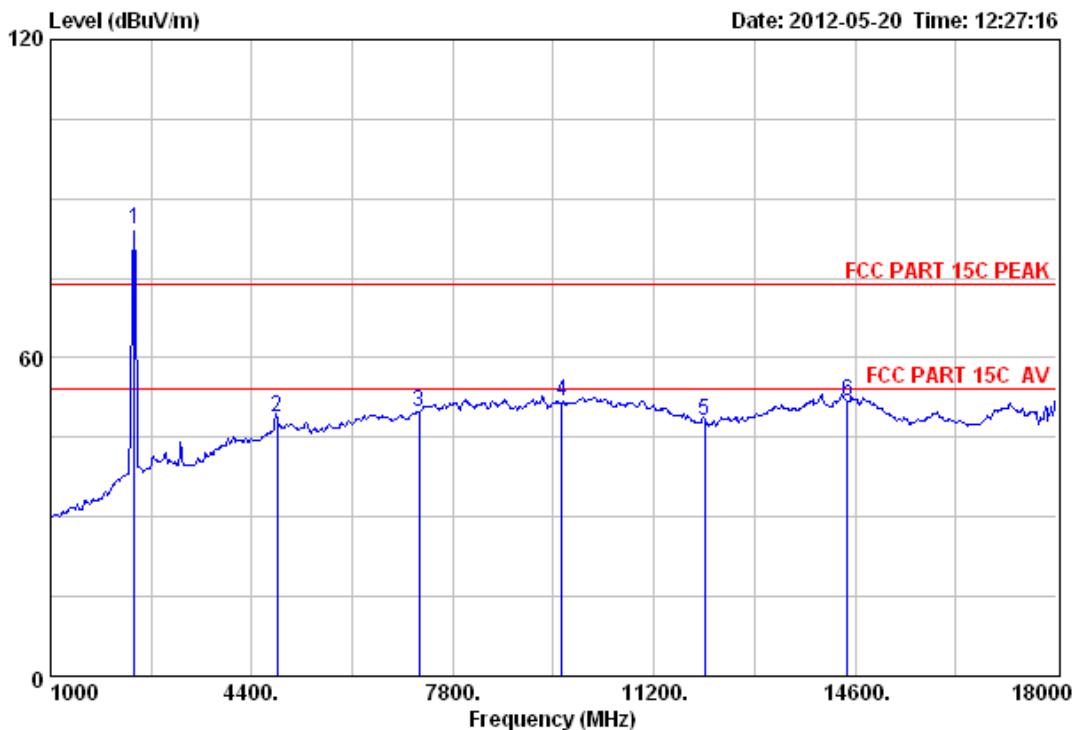
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 377 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 12:27:16



Site no. : 3m Chamber Data no. : 377
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2412.00	27.60	6.64	34.15	83.99	84.08	74.00	-10.08	Peak
2 4824.00	31.28	11.84	31.83	37.41	48.70	74.00	25.30	Peak
3 7236.00	36.53	11.55	32.07	33.80	49.81	74.00	24.19	Peak
4 9648.00	37.96	11.67	31.91	34.14	51.86	74.00	22.14	Peak
5 12060.00	38.64	11.35	35.58	33.74	48.15	74.00	25.85	Peak
6 14472.00	41.86	10.93	33.02	32.13	51.90	74.00	22.10	Peak

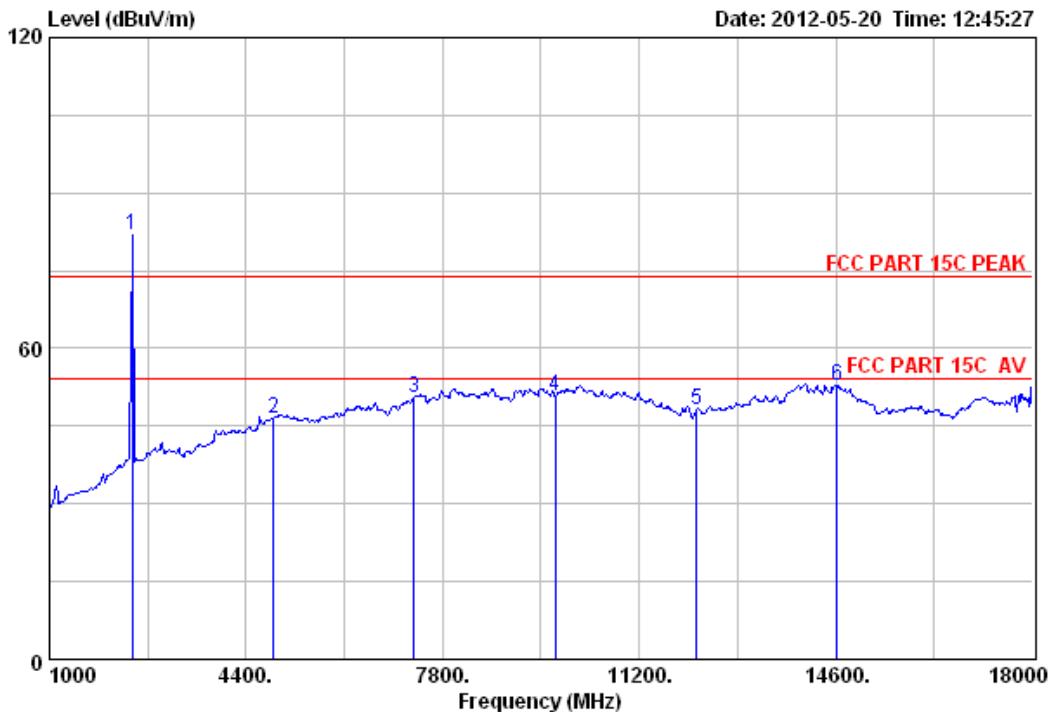
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 380 File: D:\test data\2012\DESAY.EMI (429)

Date: 2012-05-20 Time: 12:45:27



Site no. : 3m Chamber Data no. : 380
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	81.77	81.92	74.00	-7.92	Peak
2 4874.00	31.37	12.07	31.90	35.05	46.59	74.00	27.41	Peak
3 7311.00	36.55	11.57	31.99	34.41	50.54	74.00	23.46	Peak
4 9748.00	38.11	11.65	31.87	33.08	50.97	74.00	23.03	Peak
5 12185.00	38.67	11.22	35.69	33.90	48.10	74.00	25.90	Peak
6 14622.00	41.48	10.91	33.56	33.89	52.72	74.00	21.28	Peak

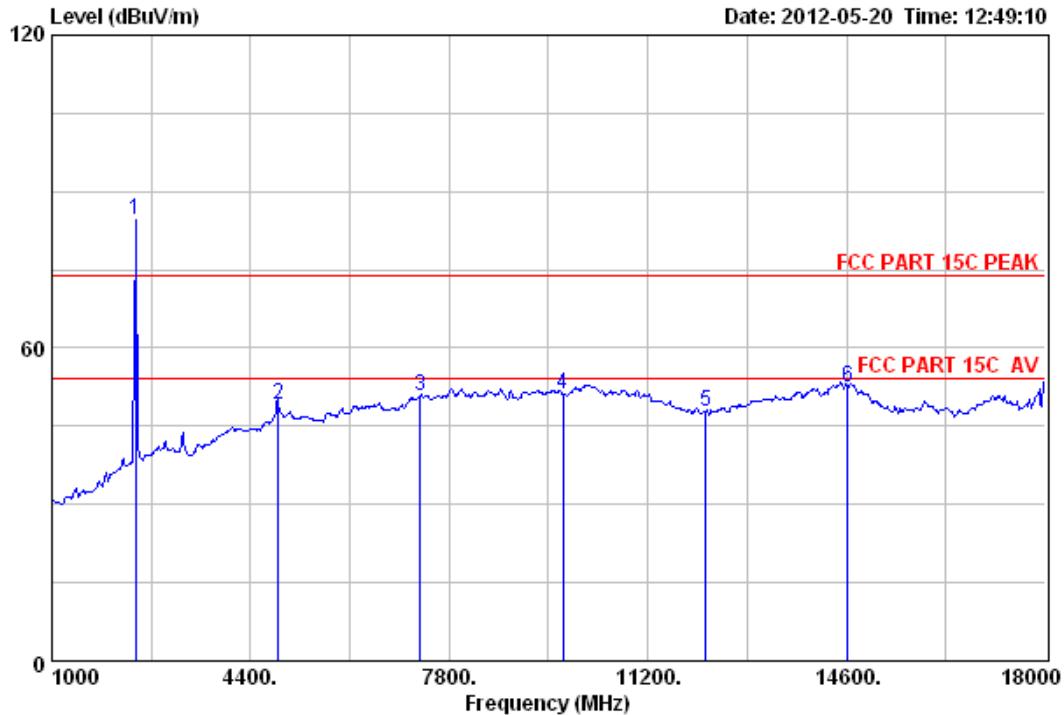
Remarks: 1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 381 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 12:49:10



Site no. : 3m Chamber Data no. : 381
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	84.54	84.69	74.00	-10.69	Peak
2 4874.00	31.37	12.07	31.90	37.70	49.24	74.00	24.76	Peak
3 7311.00	36.55	11.57	31.99	34.83	50.96	74.00	23.04	Peak
4 9748.00	38.11	11.65	31.87	33.17	51.06	74.00	22.94	Peak
5 12185.00	38.67	11.22	35.69	33.73	47.93	74.00	26.07	Peak
6 14622.00	41.48	10.91	33.56	33.75	52.58	74.00	21.42	Peak

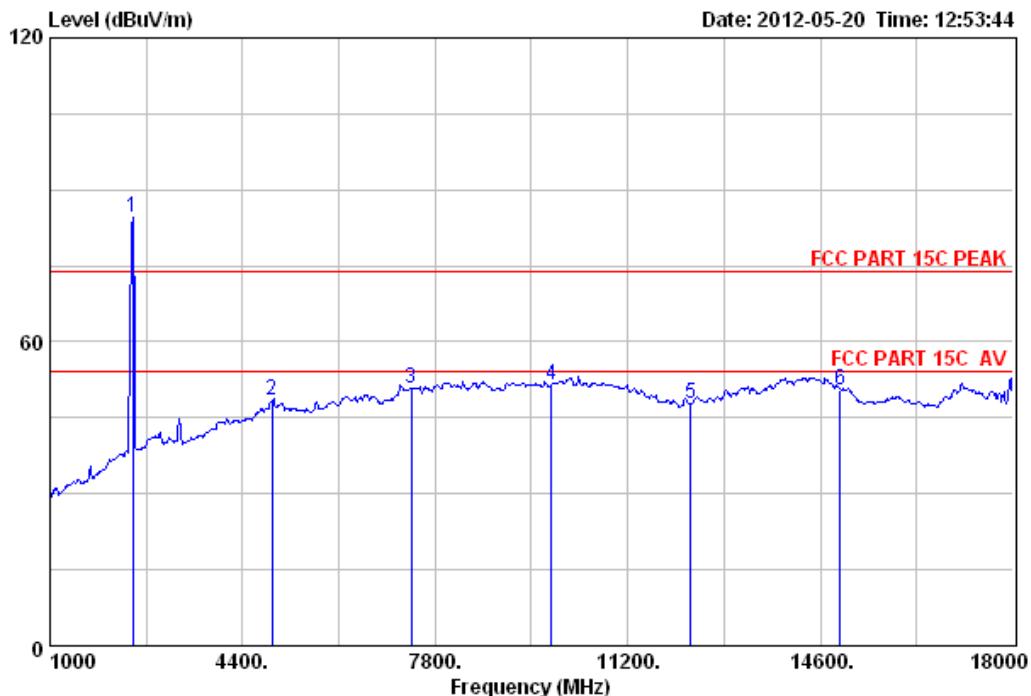
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 382 File: D:\test data\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 12:53:44



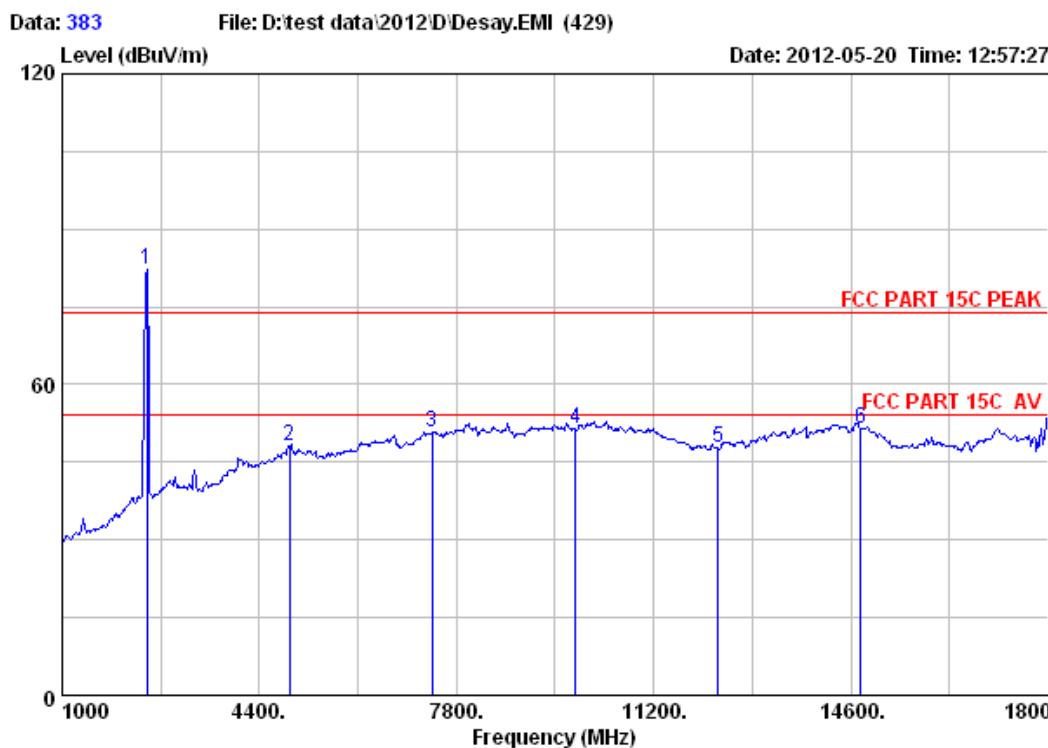
Site no. : 3m Chamber Data no. : 382
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.00	27.58	6.69	34.06	84.28	84.49	74.00	-10.49	Peak
2 4924.00	31.45	12.29	31.95	36.74	48.53	74.00	25.47	Peak
3 7386.00	36.57	11.59	31.97	34.59	50.78	74.00	23.22	Peak
4 9848.00	38.16	11.63	31.81	33.41	51.39	74.00	22.61	Peak
5 12310.00	38.70	11.10	35.52	33.37	47.65	74.00	26.35	Peak
6 14952.00	40.36	10.87	34.69	34.05	50.59	74.00	23.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 383
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.00	27.58	6.69	34.06	81.89	82.10	74.00	-8.10	Peak
2 4924.00	31.45	12.29	31.95	36.46	48.25	74.00	25.75	Peak
3 7386.00	36.57	11.59	31.97	34.64	50.83	74.00	23.17	Peak
4 9848.00	38.16	11.63	31.81	33.42	51.40	74.00	22.60	Peak
5 12310.00	38.70	11.10	35.52	33.40	47.68	74.00	26.32	Peak
6 14772.00	41.01	10.89	34.03	33.71	51.58	74.00	22.42	Peak

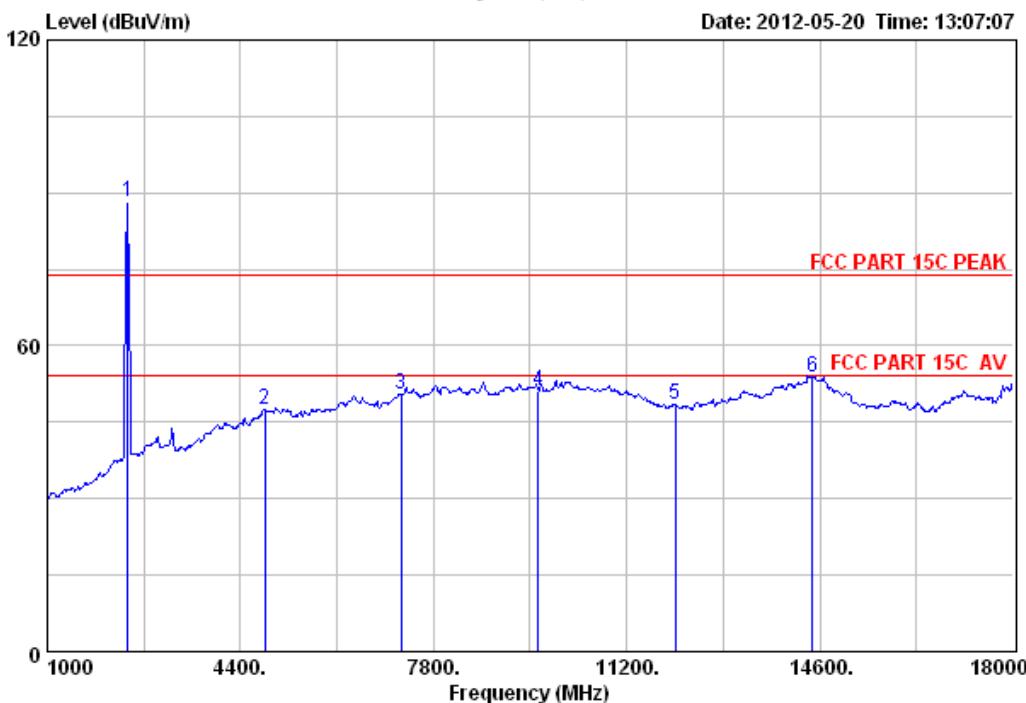
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 386 File: D:\test data\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 13:07:07



Site no. : 3m Chamber Data no. : 386
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2412.00	27.60	6.64	34.15	88.28	88.37	74.00	-14.37	Peak
2 4824.00	31.28	11.84	31.83	36.03	47.32	74.00	26.68	Peak
3 7236.00	36.53	11.55	32.07	34.52	50.53	74.00	23.47	Peak
4 9648.00	37.96	11.67	31.91	33.38	51.10	74.00	22.90	Peak
5 12060.00	38.64	11.35	35.58	33.90	48.31	74.00	25.69	Peak
6 14472.00	41.86	10.93	33.02	34.07	53.84	74.00	20.16	Peak

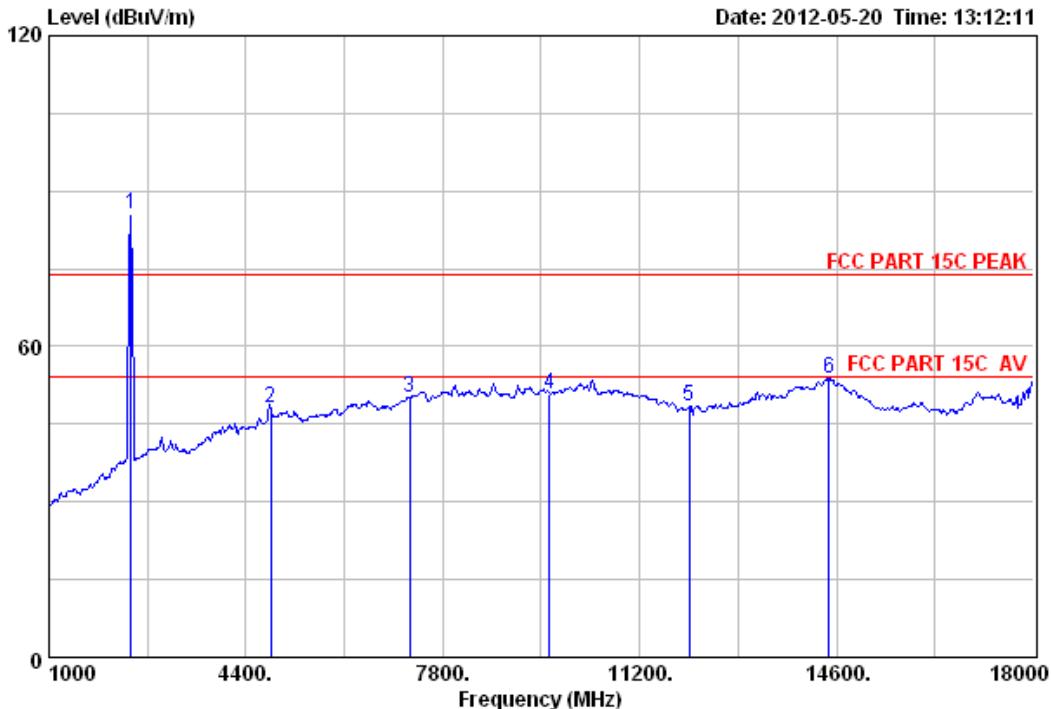
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 387 File: D:\test data\2012\DDesay.EMI (429)

Date: 2012-05-20 Time: 13:12:11



Site no. : 3m Chamber Data no. : 387
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2412.00	27.60	6.64	34.15	85.56	85.65	74.00	-11.65	Peak
2 4824.00	31.28	11.84	31.83	36.75	48.04	74.00	25.96	Peak
3 7236.00	36.53	11.55	32.07	34.00	50.01	74.00	23.99	Peak
4 9648.00	37.96	11.67	31.91	32.94	50.66	74.00	23.34	Peak
5 12060.00	38.64	11.35	35.58	34.00	48.41	74.00	25.59	Peak
6 14472.00	41.86	10.93	33.02	33.97	53.74	74.00	20.26	Peak

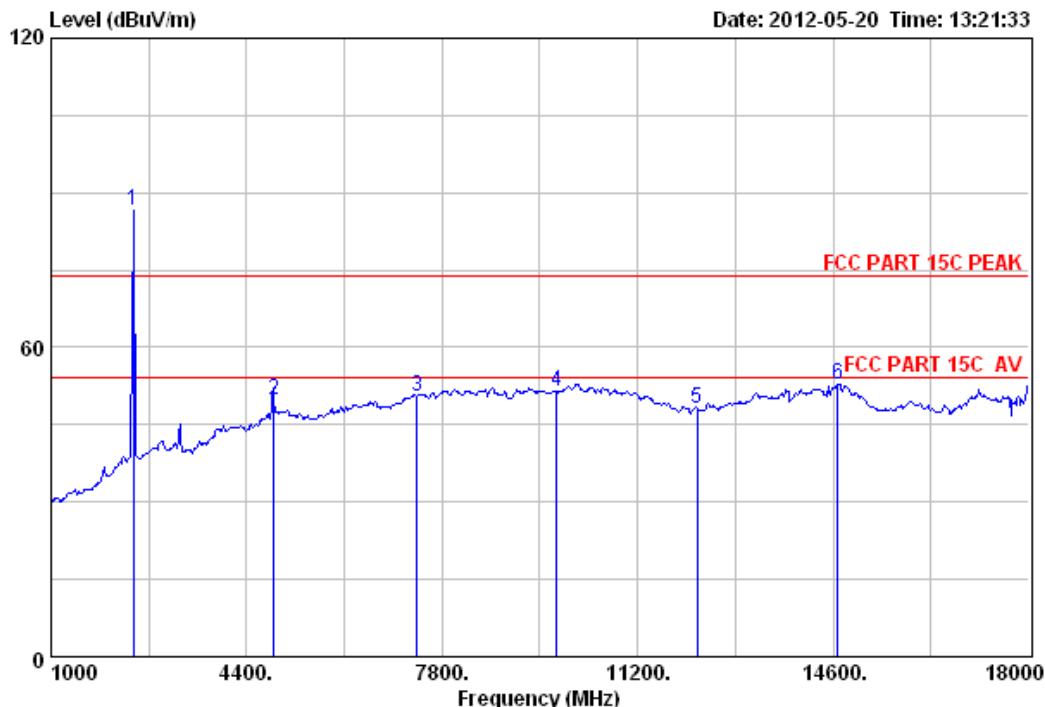
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 390 File: D:\test data\2012\1\Desay.EMI (429)

Date: 2012-05-20 Time: 13:21:33



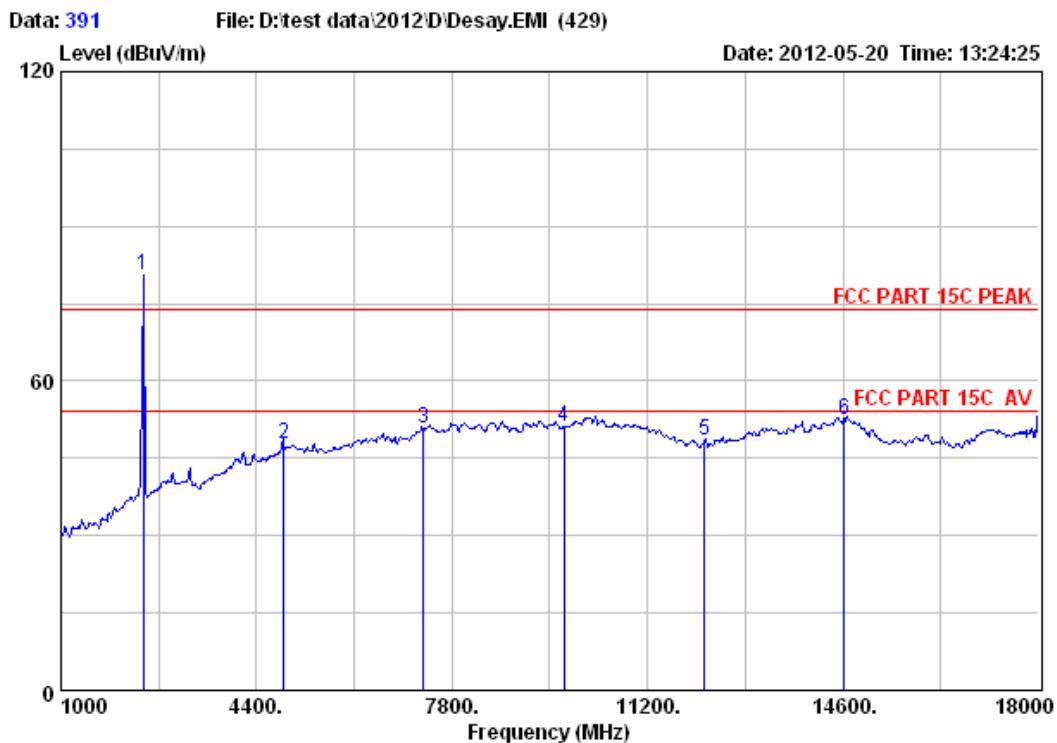
Site no. : 3m Chamber Data no. : 390
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	86.35	86.50	74.00	-12.50	Peak
2 4874.00	31.37	12.07	31.90	38.26	49.80	74.00	24.20	Peak
3 7361.00	36.56	11.58	31.99	34.43	50.58	74.00	23.42	Peak
4 9798.00	38.18	11.64	31.86	33.44	51.40	74.00	22.60	Peak
5 12235.00	38.68	11.17	35.65	33.93	48.13	74.00	25.87	Peak
6 14672.00	41.30	10.91	33.74	34.39	52.86	74.00	21.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Site no. : 3m Chamber Data no. : 391
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

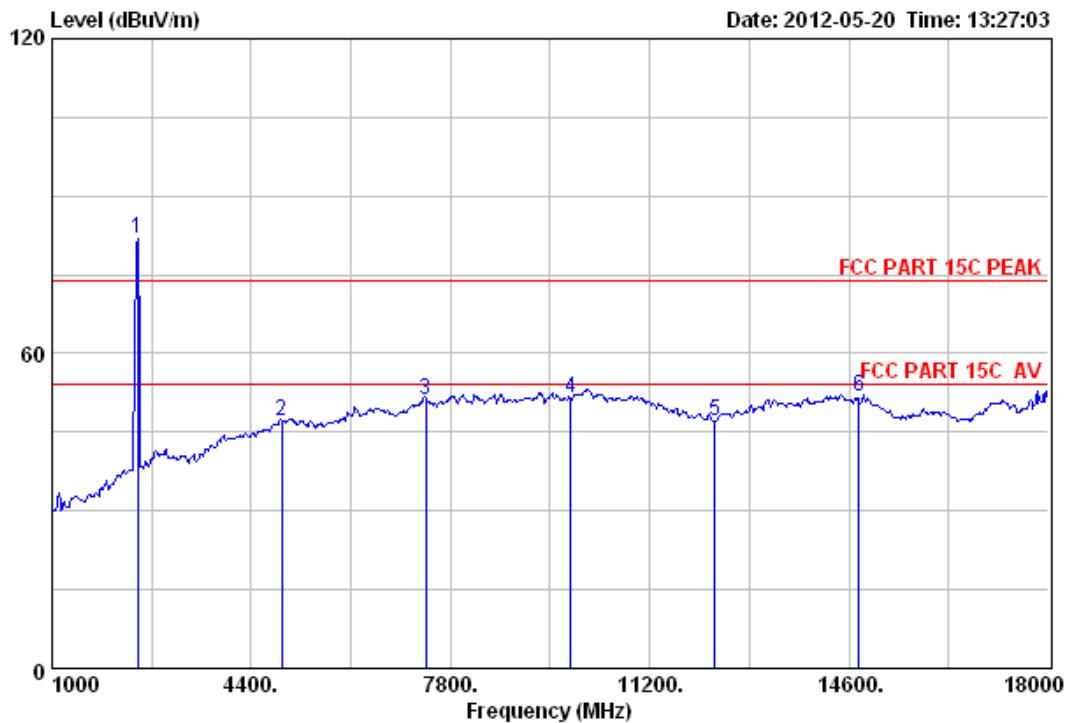
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	80.24	80.39	74.00	-6.39	Peak
2 4874.00	31.37	12.07	31.90	36.29	47.83	74.00	26.17	Peak
3 7311.00	36.55	11.57	31.99	34.53	50.66	74.00	23.34	Peak
4 9748.00	38.11	11.65	31.87	33.24	51.13	74.00	22.87	Peak
5 12185.00	38.67	11.22	35.69	34.25	48.45	74.00	25.55	Peak
6 14622.00	41.48	10.91	33.56	33.68	52.51	74.00	21.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 392 File: D:\test data\2012\0\Desay.EMI (429)



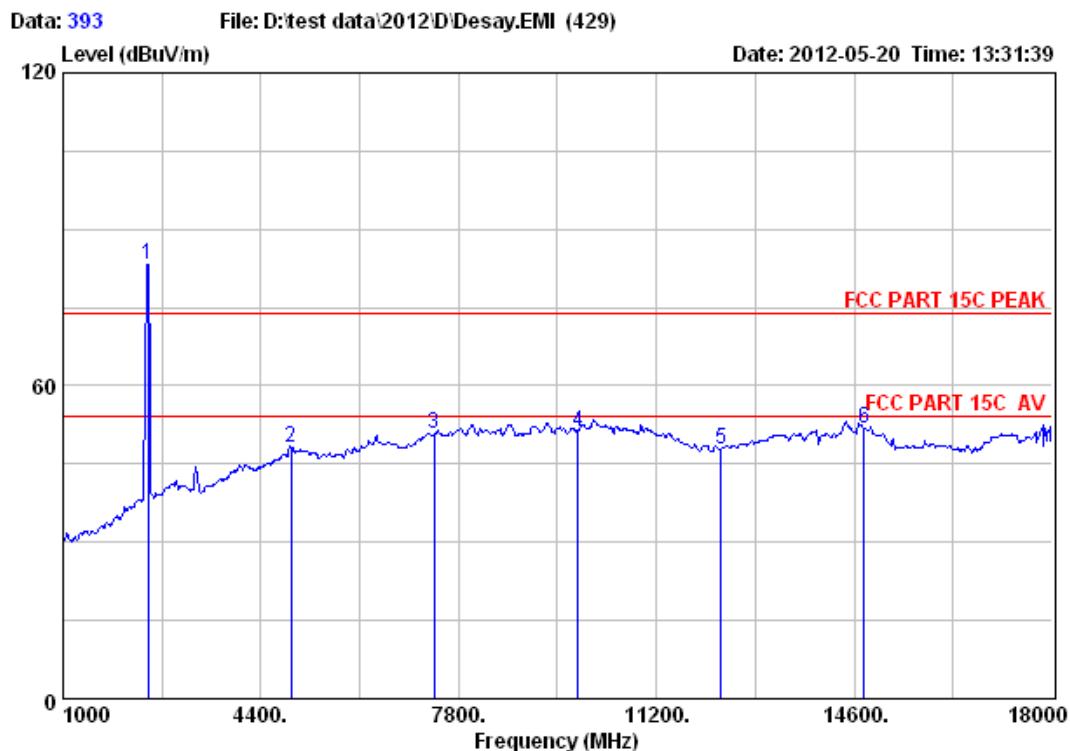
Site no. : 3m Chamber Data no. : 392
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.00	27.58	6.69	34.06	81.66	81.87	74.00	-7.87	Peak
2 4924.00	31.45	12.29	31.95	35.49	47.28	74.00	26.72	Peak
3 7386.00	36.57	11.59	31.97	34.89	51.08	74.00	22.92	Peak
4 9848.00	38.16	11.63	31.81	33.63	51.61	74.00	22.39	Peak
5 12310.00	38.70	11.10	35.52	32.84	47.12	74.00	26.88	Peak
6 14772.00	41.01	10.89	34.03	33.81	51.68	74.00	22.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 393
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

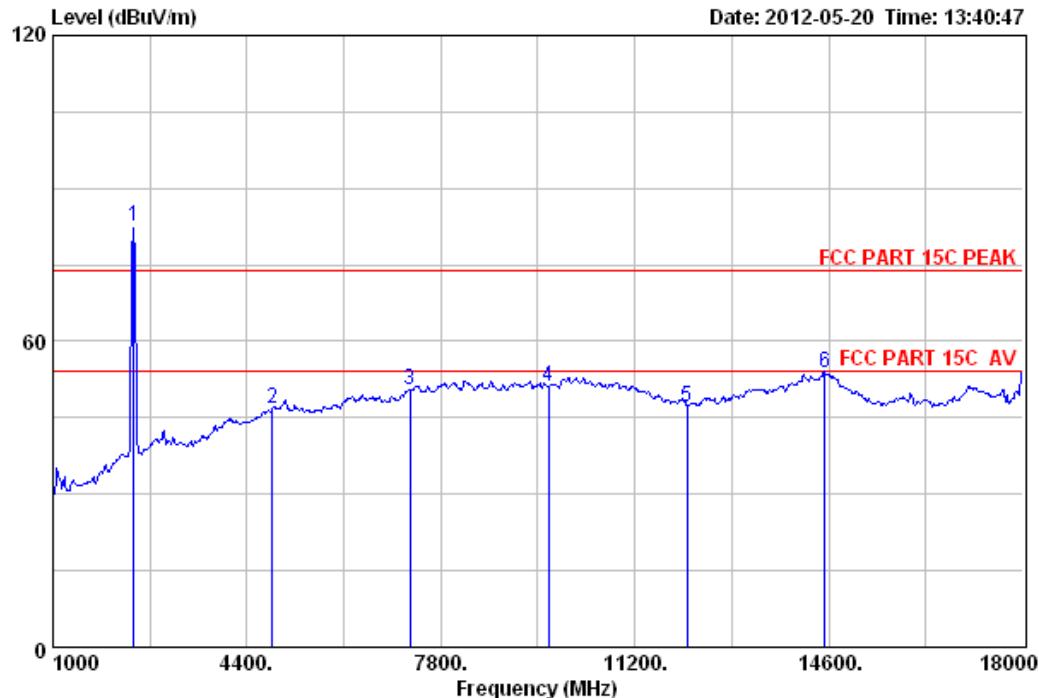
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2462.00	27.58	6.69	34.06	83.04	83.25	74.00	-9.25	Peak
2 4924.00	31.45	12.29	31.95	36.47	48.26	74.00	25.74	Peak
3 7386.00	36.57	11.59	31.97	34.59	50.78	74.00	23.22	Peak
4 9848.00	38.16	11.63	31.81	33.28	51.26	74.00	22.74	Peak
5 12310.00	38.70	11.10	35.52	33.62	47.90	74.00	26.10	Peak
6 14772.00	41.01	10.89	34.03	33.91	51.78	74.00	22.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 396 File: D:\test data\2012\0\Desay.EMI (429)



Site no. : 3m Chamber Data no. : 396
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2422.00	27.60	6.66	34.15	82.31	82.42	74.00	-8.42	Peak
2 4844.00	31.31	11.92	31.85	35.36	46.74	74.00	27.26	Peak
3 7266.00	36.54	11.56	32.04	34.47	50.53	74.00	23.47	Peak
4 9688.00	38.03	11.66	31.87	33.46	51.28	74.00	22.72	Peak
5 12110.00	38.65	11.29	35.63	32.97	47.28	74.00	26.72	Peak
6 14532.00	41.83	10.93	33.20	34.28	53.84	74.00	20.16	Peak

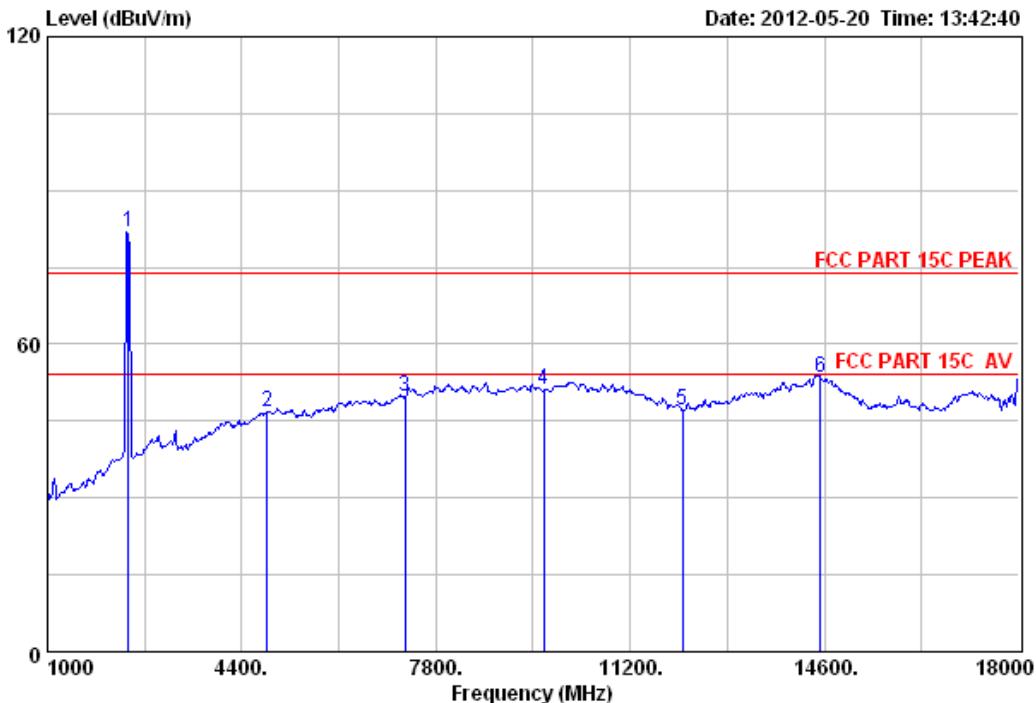
Remarks: 1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 397 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 13:42:40



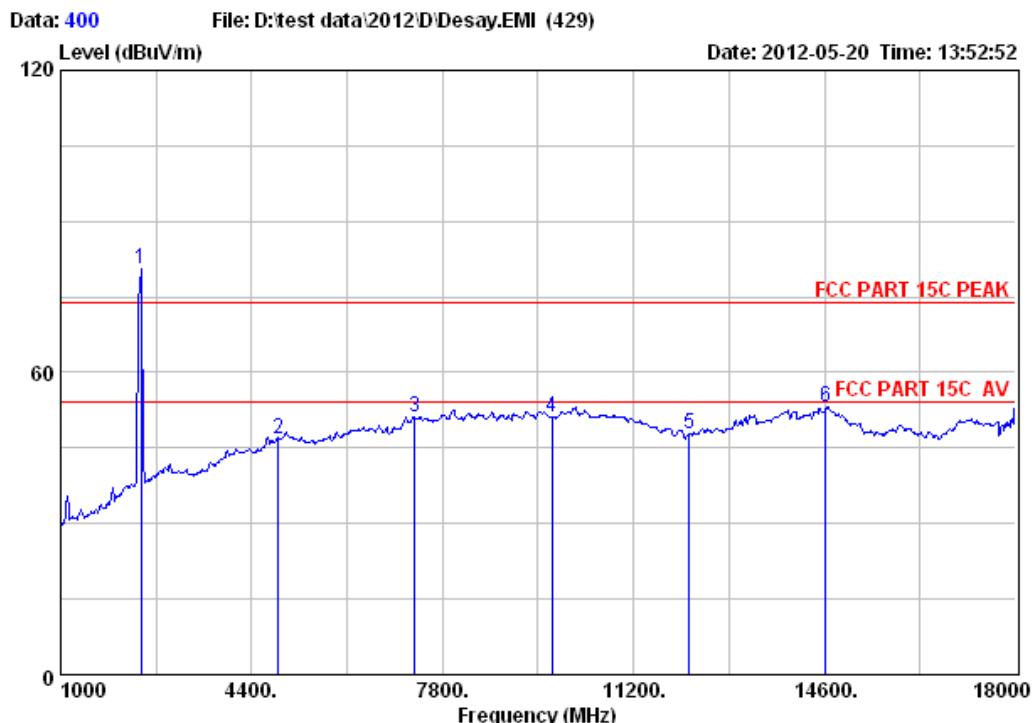
Site no. : 3m Chamber Data no. : 397
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2422.00	27.60	6.66	34.15	81.76	81.87	74.00	-7.87	Peak
2 4844.00	31.31	11.92	31.85	35.37	46.75	74.00	27.25	Peak
3 7266.00	36.54	11.56	32.04	33.66	49.72	74.00	24.28	Peak
4 9688.00	38.03	11.66	31.87	33.24	51.06	74.00	22.94	Peak
5 12110.00	38.65	11.29	35.63	32.66	46.97	74.00	27.03	Peak
6 14532.00	41.83	10.93	33.20	33.92	53.48	74.00	20.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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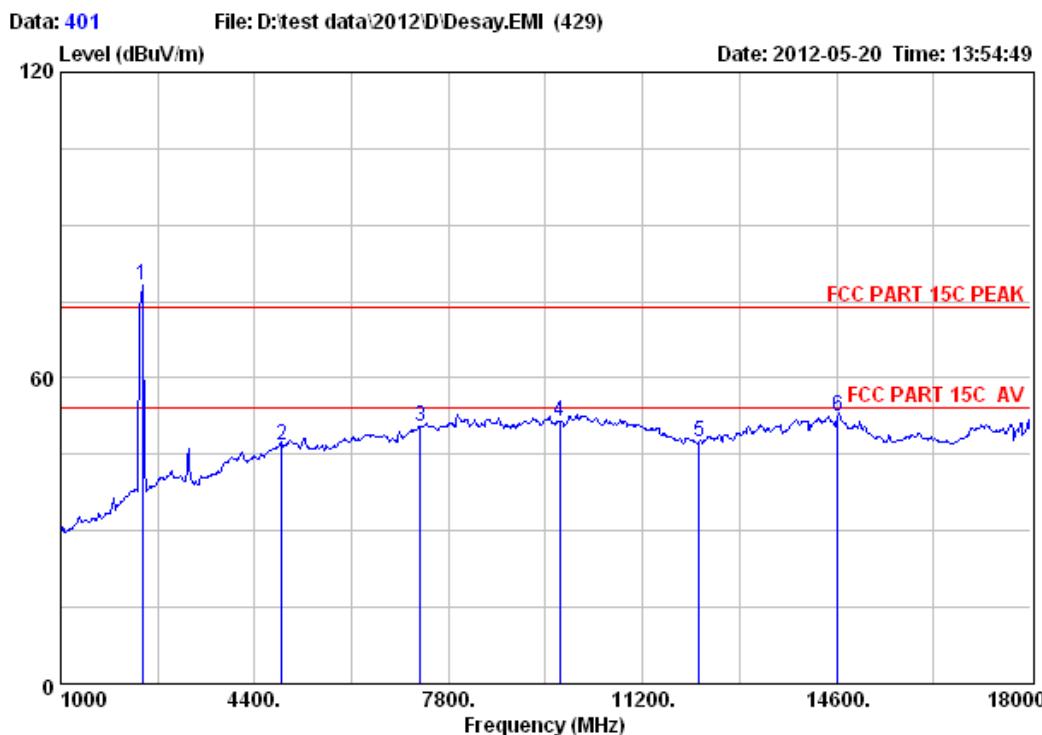
Site no. : 3m Chamber Data no. : 400
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2437.00	27.60	6.67	34.12	80.34	80.49	74.00	-6.49	Peak
2 4874.00	31.37	12.07	31.90	35.33	46.87	74.00	27.13	Peak
3 7311.00	36.55	11.57	31.99	34.93	51.06	74.00	22.94	Peak
4 9748.00	38.11	11.65	31.87	33.38	51.27	74.00	22.73	Peak
5 12185.00	38.67	11.22	35.69	33.62	47.82	74.00	26.18	Peak
6 14622.00	41.48	10.91	33.56	34.27	53.10	74.00	20.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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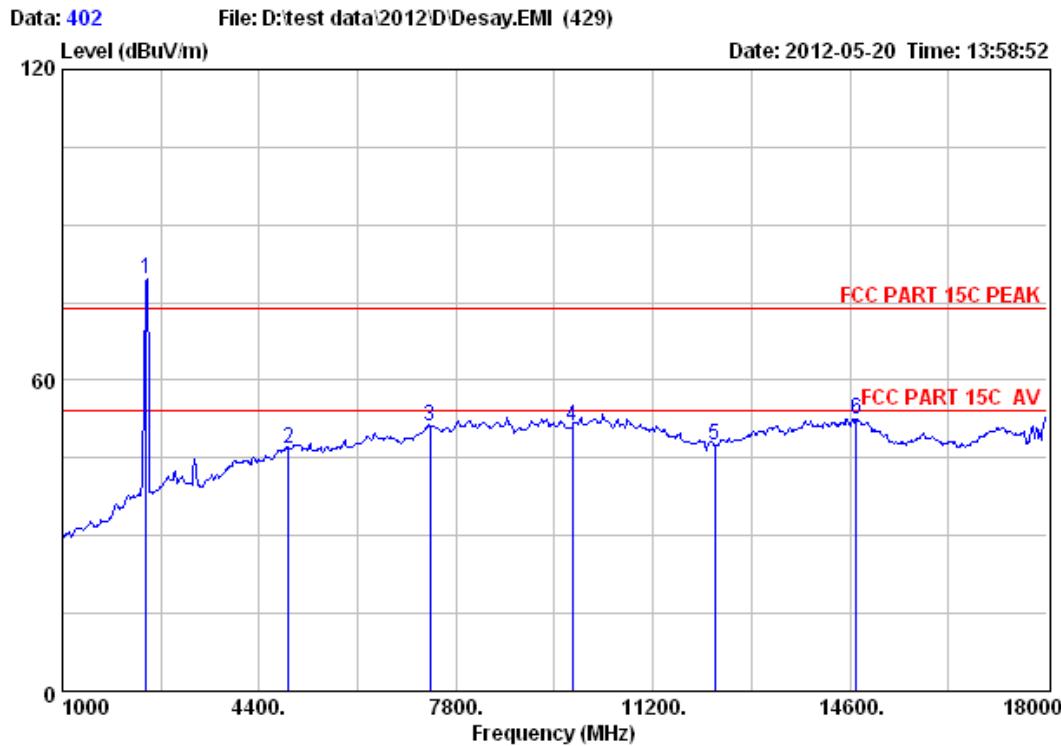
Site no. : 3m Chamber Data no. : 401
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.00	27.60	6.67	34.12	78.18	78.33	74.00	-4.33	Peak
2 4874.00	31.37	12.07	31.90	35.38	46.92	74.00	27.08	Peak
3 7311.00	36.55	11.57	31.99	34.28	50.41	74.00	23.59	Peak
4 9748.00	38.11	11.65	31.87	33.62	51.51	74.00	22.49	Peak
5 12185.00	38.67	11.22	35.69	33.36	47.56	74.00	26.44	Peak
6 14622.00	41.48	10.91	33.56	33.79	52.62	74.00	21.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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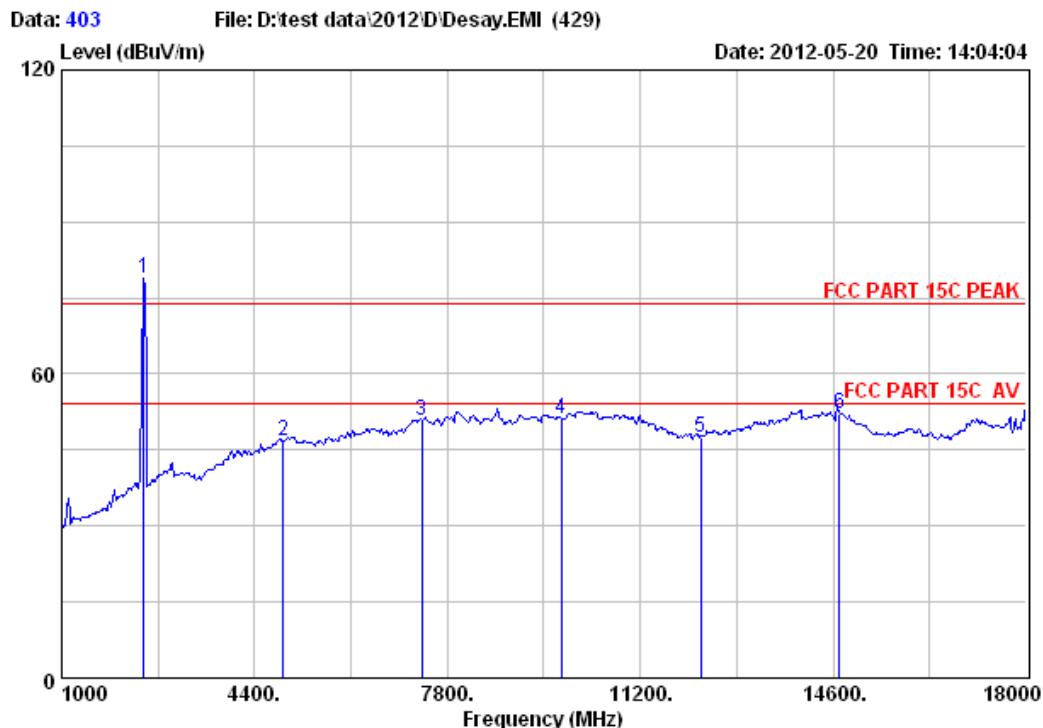
Site no. : 3m Chamber Data no. : 402
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2452.00	27.59	6.67	34.09	79.50	79.67	74.00	-5.67	Peak
2 4904.00	31.42	12.22	31.93	35.23	46.94	74.00	27.06	Peak
3 7356.00	36.56	11.58	31.99	34.88	51.03	74.00	22.97	Peak
4 9808.00	38.17	11.64	31.84	33.29	51.26	74.00	22.74	Peak
5 12260.00	38.69	11.15	35.61	33.33	47.56	74.00	26.44	Peak
6 14712.00	41.18	10.90	33.85	34.16	52.39	74.00	21.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 403
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

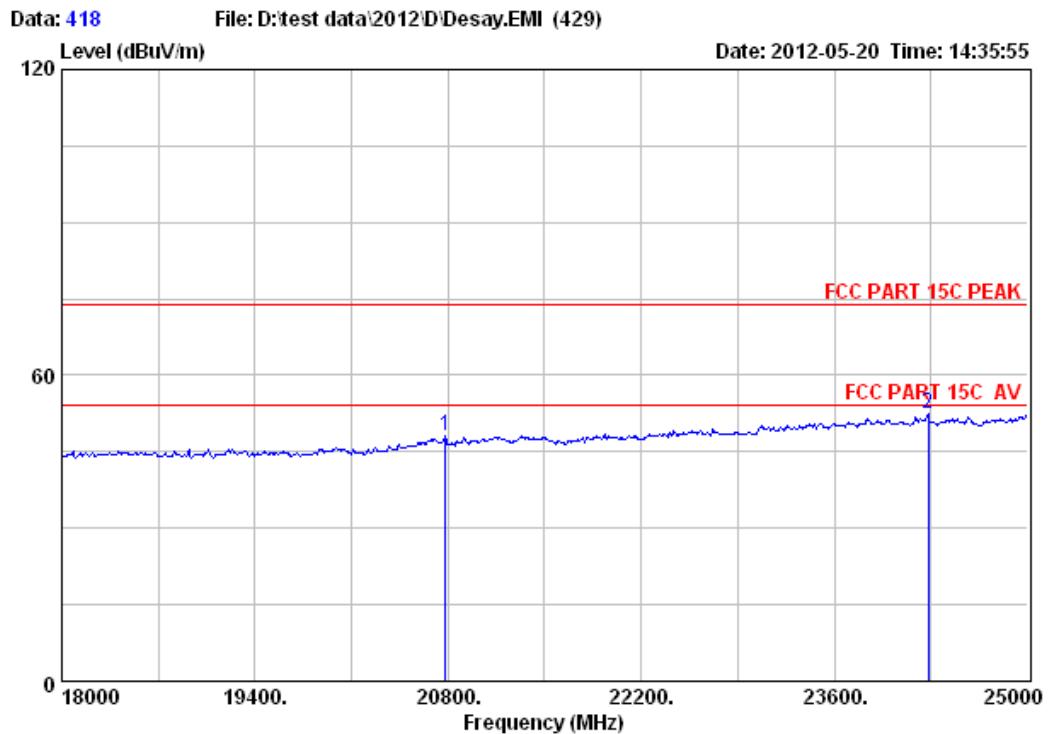
Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
				(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2452.00	27.59	6.67	34.09	78.79	78.96	74.00	-4.96	Peak
2 4904.00	31.42	12.22	31.93	35.11	46.82	74.00	27.18	Peak
3 7356.00	36.56	11.58	31.99	34.78	50.93	74.00	23.07	Peak
4 9808.00	38.17	11.64	31.84	33.32	51.29	74.00	22.71	Peak
5 12260.00	38.69	11.15	35.61	33.32	47.55	74.00	26.45	Peak
6 14712.00	41.18	10.90	33.85	33.99	52.22	74.00	21.78	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

18000-25000 MHz

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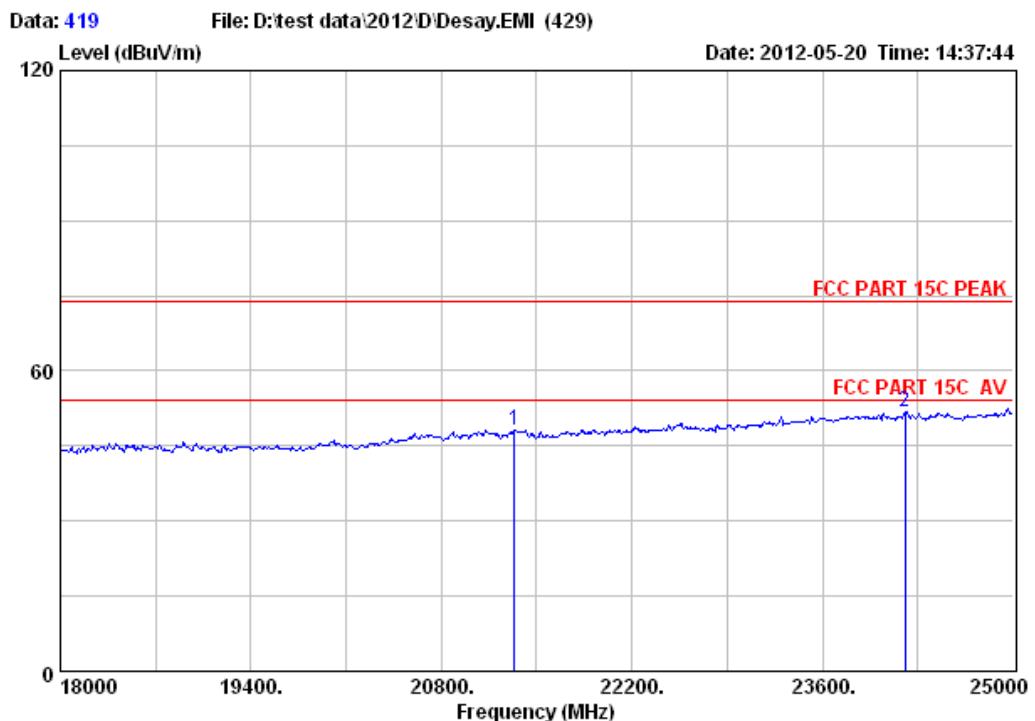
Site no. : 3m Chamber Data no. : 418
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 20779.00	46.16	20.03	36.00	17.84	48.03	74.00	25.97	Peak
2 24279.00	45.65	22.20	33.23	17.71	52.33	74.00	21.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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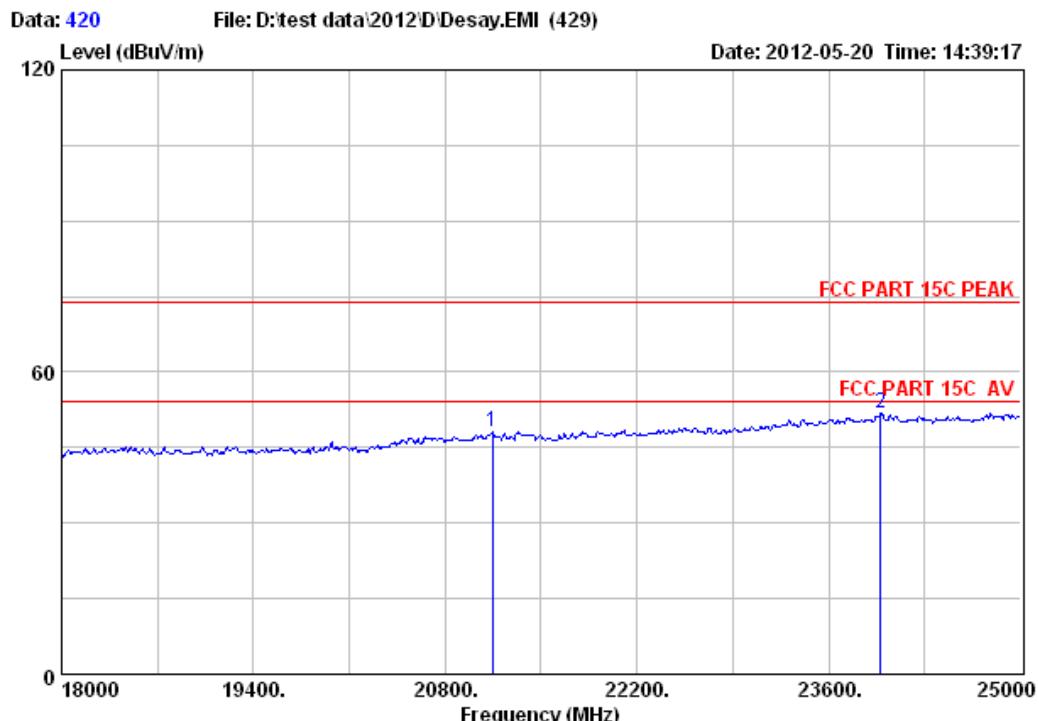
Site no. : 3m Chamber Data no. : 419
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Remark
1 21339.00	46.09	20.28	35.49	17.37	48.25	74.00	25.75	Peak
2 24209.00	45.64	22.16	33.11	17.28	51.97	74.00	22.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 420
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21143.00	46.21	20.19	35.67	17.54	48.27	74.00	25.73	Peak
2 23978.00	45.60	22.03	32.83	16.98	51.78	74.00	22.22	Peak

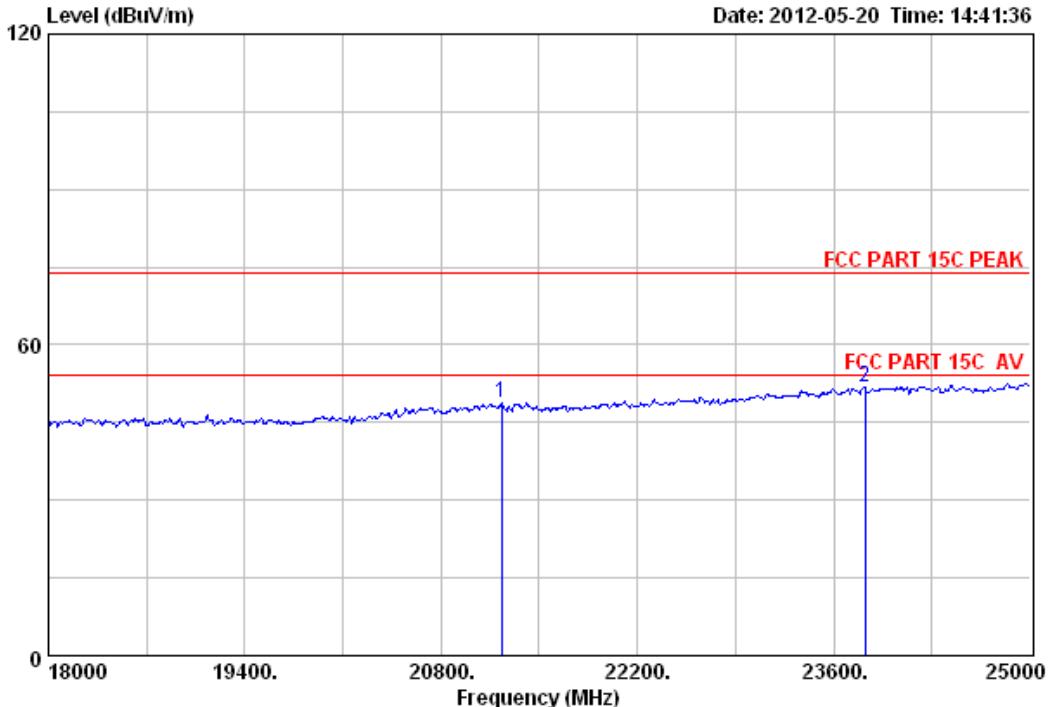
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 421 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:41:36



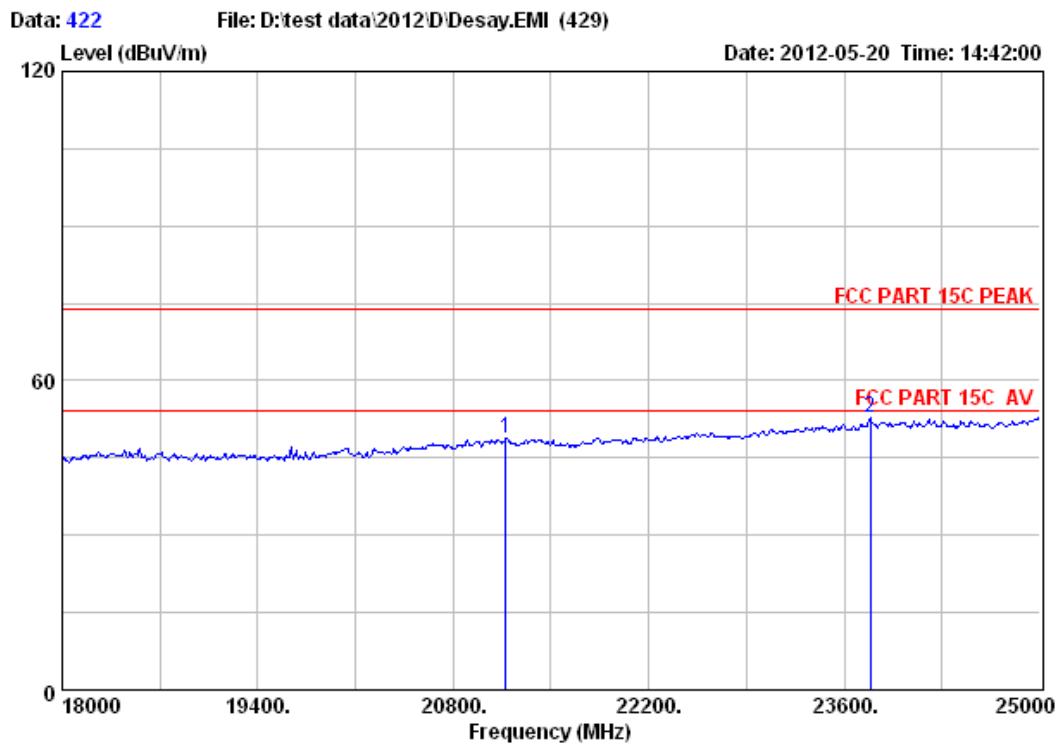
Site no. : 3m Chamber Data no. : 421
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21234.00	46.16	20.23	35.60	17.98	48.77	74.00	25.23	Peak
2 23824.00	45.63	21.89	32.98	17.43	51.97	74.00	22.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 422
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission					Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 21178.00	46.20	20.21	35.64	18.16	48.93	74.00	25.07	Peak	
2 23789.00	45.64	21.86	33.01	18.36	52.85	74.00	21.15	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

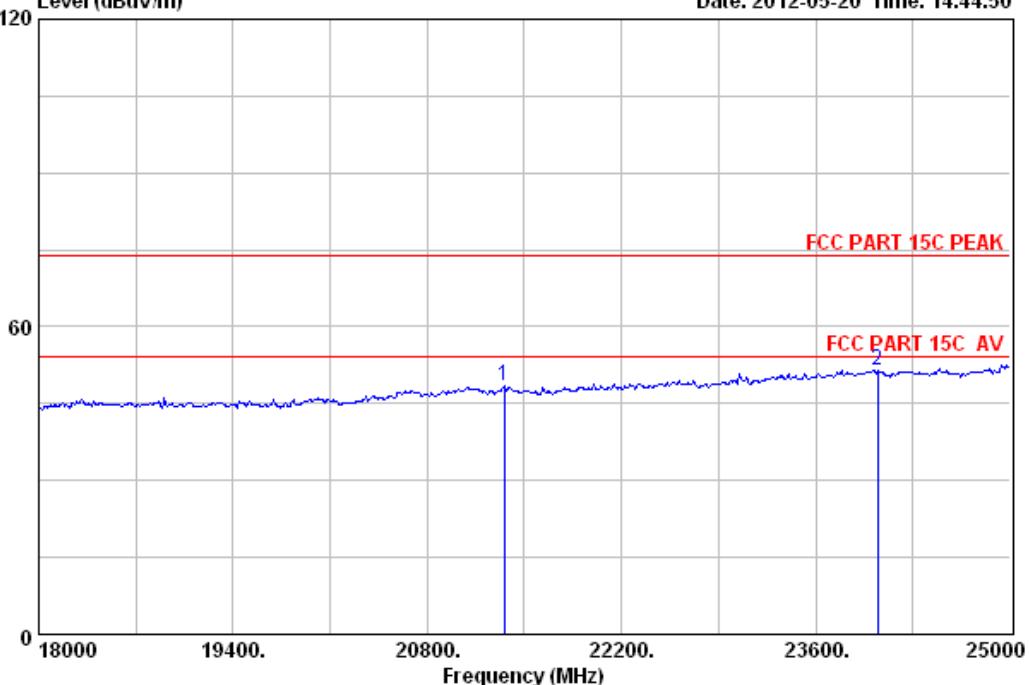
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Data: 423 File: D:\test data\2012\Desay.EMI (429)

Level (dBuV/m)

Date: 2012-05-20 Time: 14:44:50



Site no. : 3m Chamber Data no. : 423
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21353.00	46.09	20.28	35.49	17.54	48.42	74.00	25.58	Peak
2 24048.00	45.61	22.07	32.88	16.76	51.56	74.00	22.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

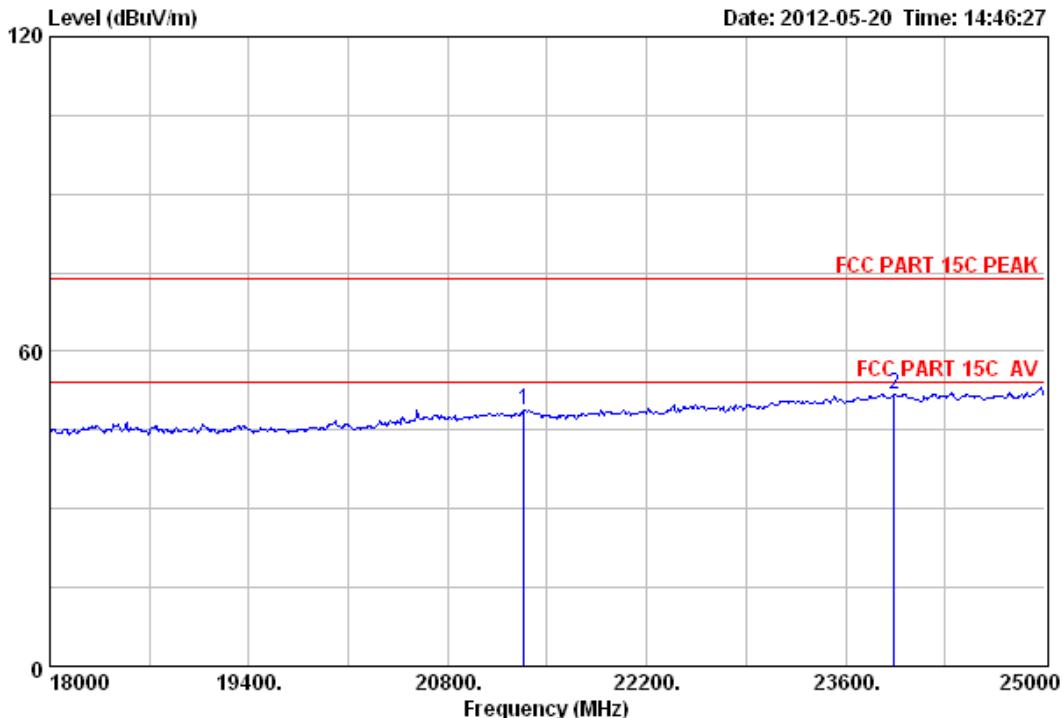
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Data: 424

File: D:\test data\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 14:46:27



Site no. : 3m Chamber Data no. : 424
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

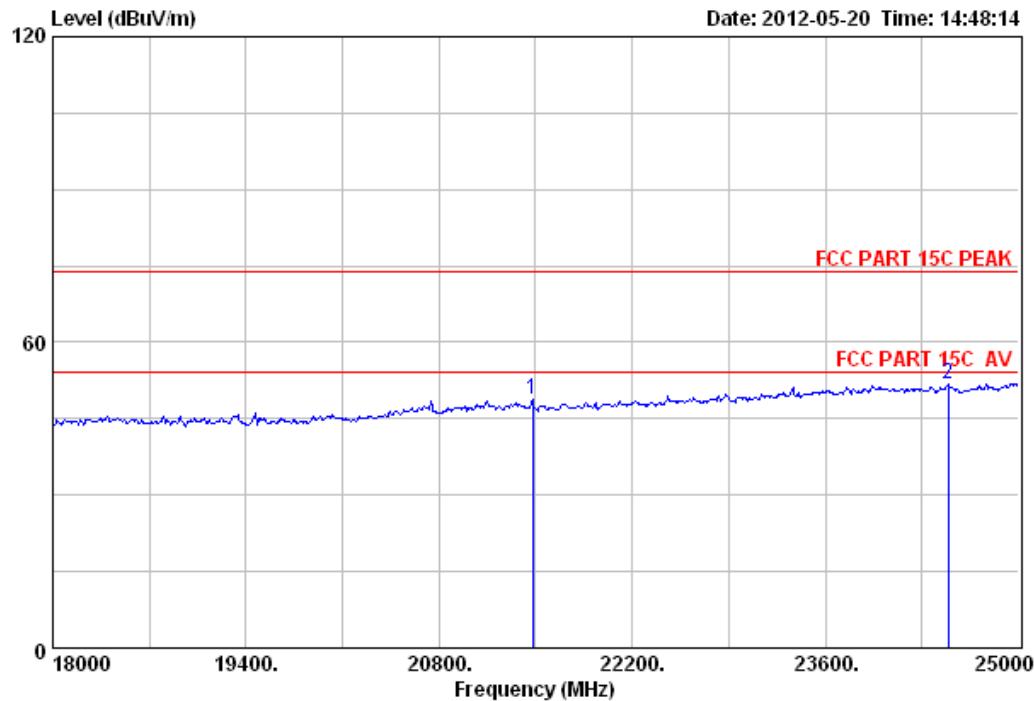
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 21339.00	46.09	20.28	35.49	18.02	48.90	74.00	25.10	Peak
2 23943.00	45.61	21.99	32.85	17.18	51.93	74.00	22.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 425 File: D:\test data\2012\4\Desay.EMI (429)



Site no. : 3m Chamber Data no. : 425
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor			Cable Loss			Amp Factor			Emission		
	(dB/m)	(dB)	(dB)	Reading	Level	Limits	(dBuV)	(dBuV/m)	(dBuV/m)	Margin	Remark	
1 21479.00	46.01	20.34	35.37	17.81	48.79	74.00	25.21	25.21	25.21	Peak		
2 24489.00	45.70	22.31	33.58	17.31	51.74	74.00	22.26	22.26	22.26	Peak		

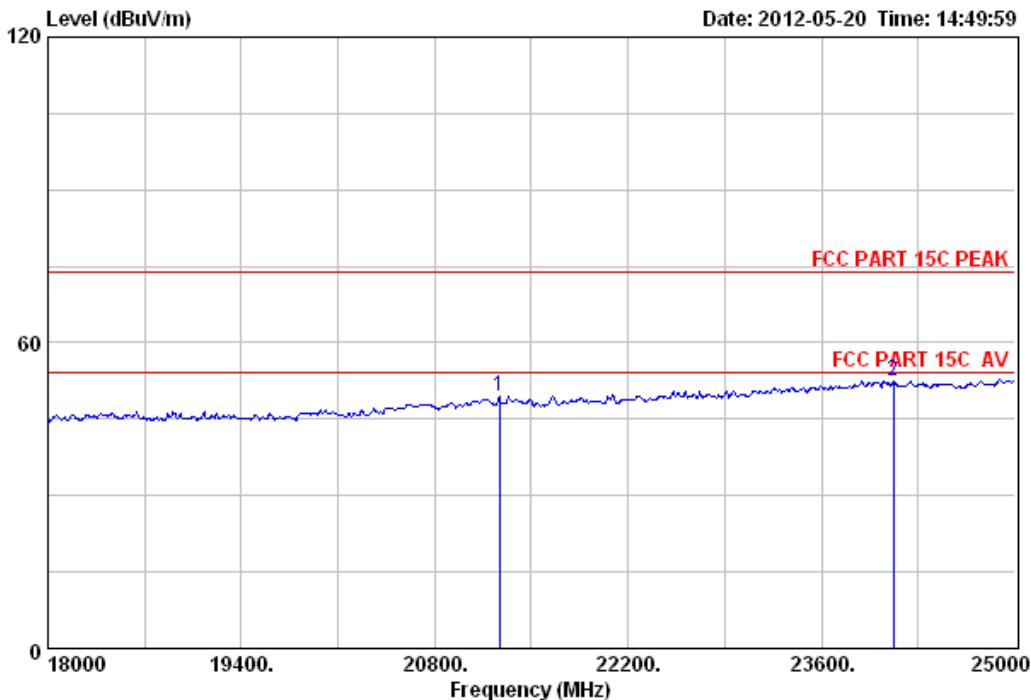
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 426 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:49:59



Site no. : 3m Chamber Data no. : 426
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21269.00	46.13	20.25	35.55	18.80	49.63	74.00	24.37	Peak
2 24118.00	45.62	22.11	32.99	17.74	52.48	74.00	21.52	Peak

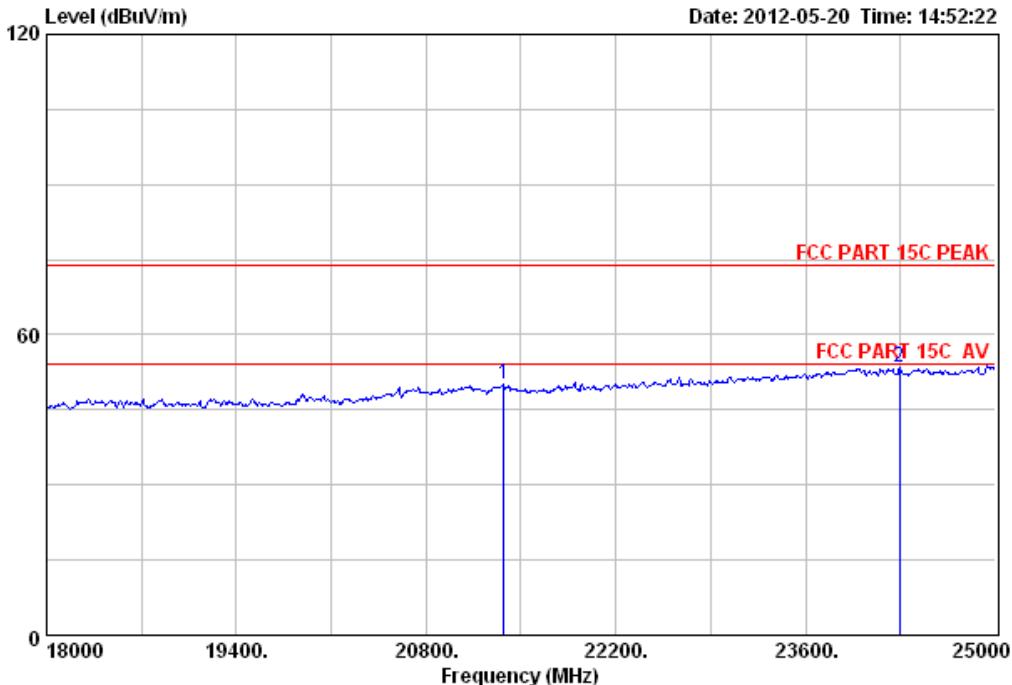
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 427 File: D:\test data\2012\1\Desay.EMI (429)

Date: 2012-05-20 Time: 14:52:22



Site no. : 3m Chamber Data no. : 427
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

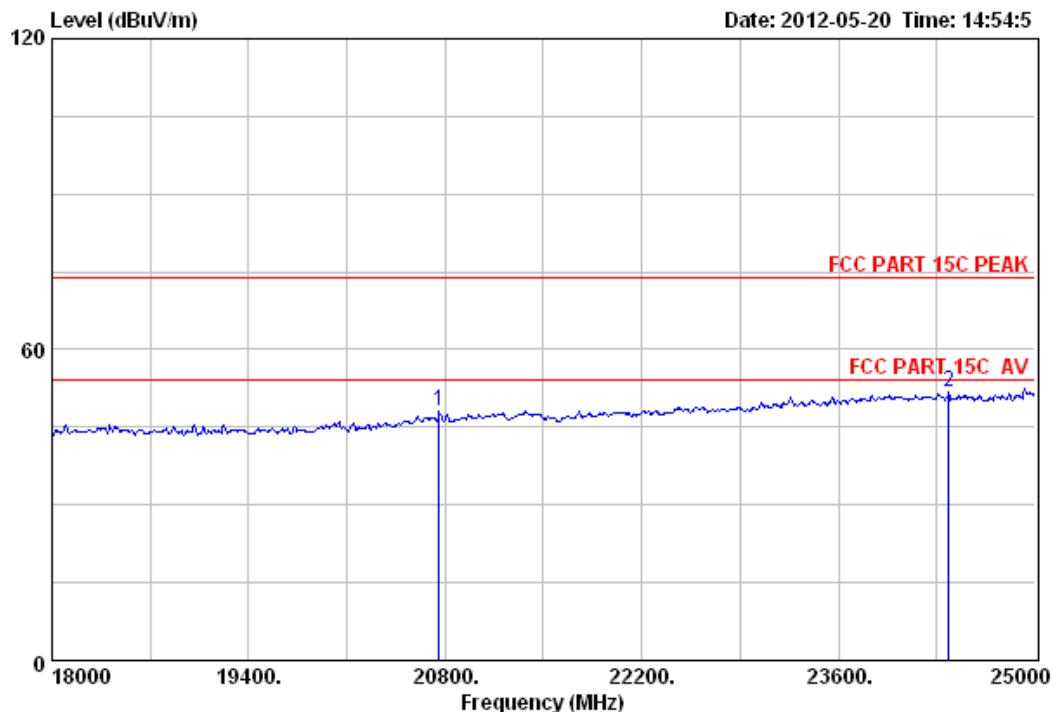
Freq. (MHz)	Ant. Cable Amp			Emission				Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21374.00	46.08	20.29	35.46	19.13	50.04	74.00	23.96	Peak
2 24293.00	45.66	22.21	33.26	18.89	53.50	74.00	20.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 428 File: D:\test data\2012\0\Desay.EMI (429)



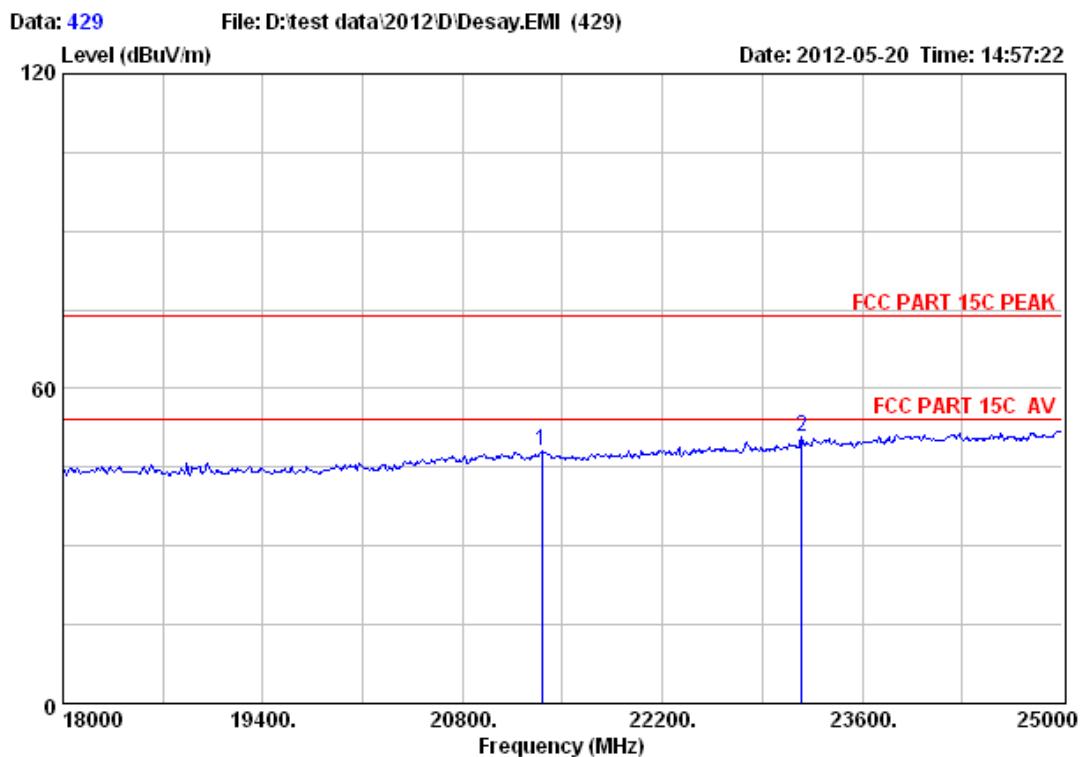
Site no. : 3m Chamber Data no. : 428
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant.	Cable Factor (dB/m)	Amp Factor (dB)	Emission				
				Reading (dB)	Level (dBuV)	Limits (dBuV/m)	Margin (dBuV/m)	Remark
1 20758.00		46.15	20.02	36.03	17.94	48.08	74.00	25.92 Peak
2 24384.00		45.68	22.25	33.38	17.16	51.71	74.00	22.29 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 429
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant.	Cable	Amp	Emission				Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21353.00	46.09	20.28	35.49	17.09	47.97	74.00	26.03	Peak
2 23173.00	45.63	21.30	33.67	17.52	50.78	74.00	23.22	Peak

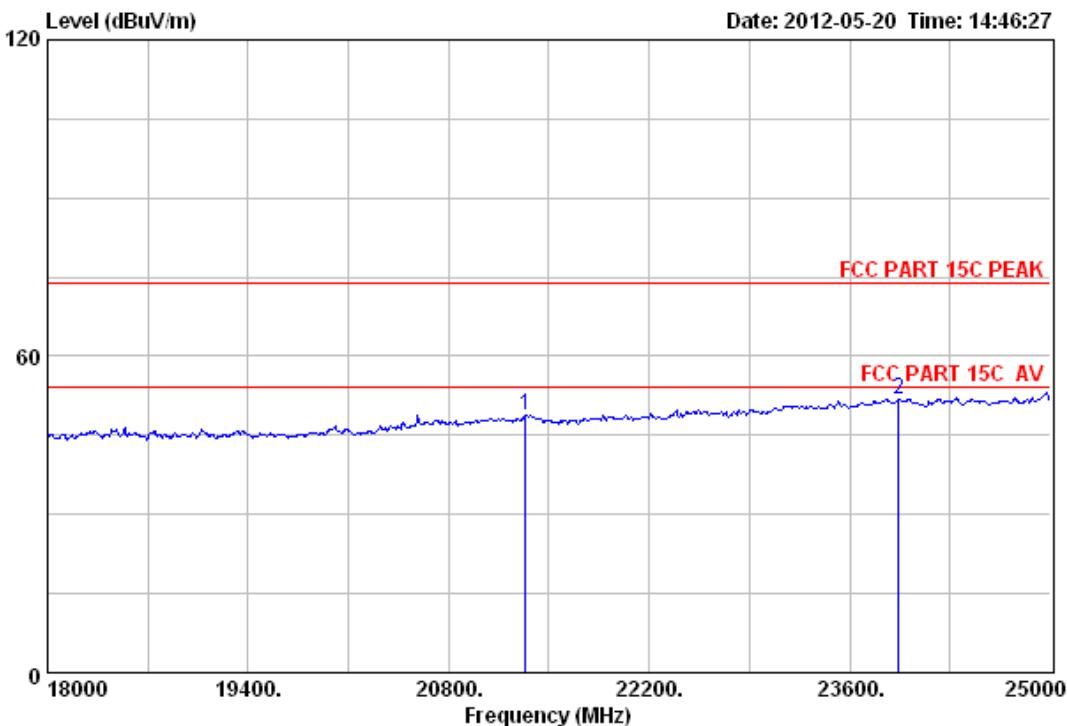
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 424 File: D:\test data\2012\Desay.EMI (429)

Date: 2012-05-20 Time: 14:46:27



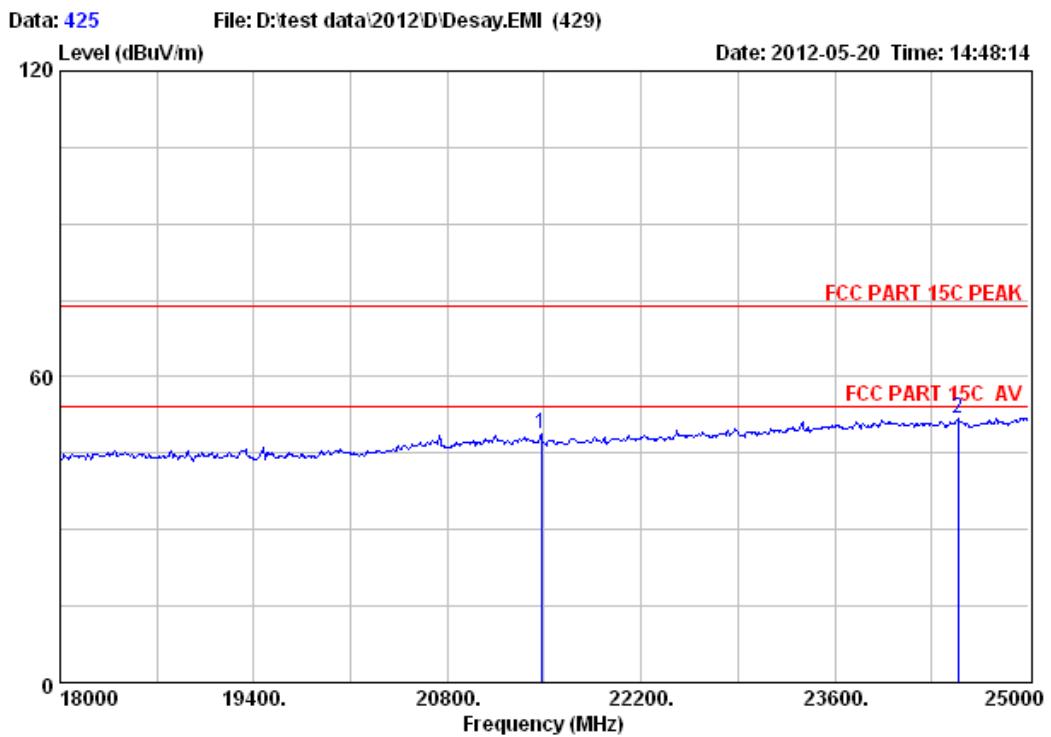
Site no. : 3m Chamber Data no. : 424
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21339.00	46.09	20.28	35.49	18.02	48.90	74.00	25.10	Peak
2 23943.00	45.61	21.99	32.85	17.18	51.93	74.00	22.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 425
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21479.00	46.01	20.34	35.37	17.81	48.79	74.00	25.21	Peak
2 24489.00	45.70	22.31	33.58	17.31	51.74	74.00	22.26	Peak

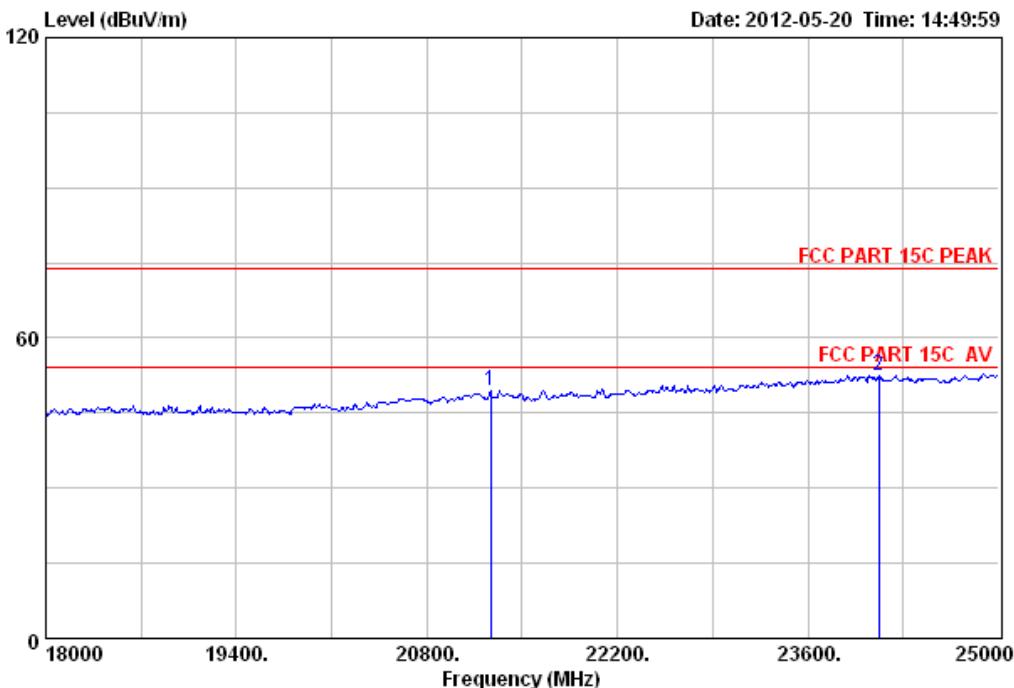
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 426 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:49:59



Site no. : 3m Chamber Data no. : 426
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21269.00	46.13	20.25	35.55	18.80	49.63	74.00	24.37	Peak
2 24118.00	45.62	22.11	32.99	17.74	52.48	74.00	21.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

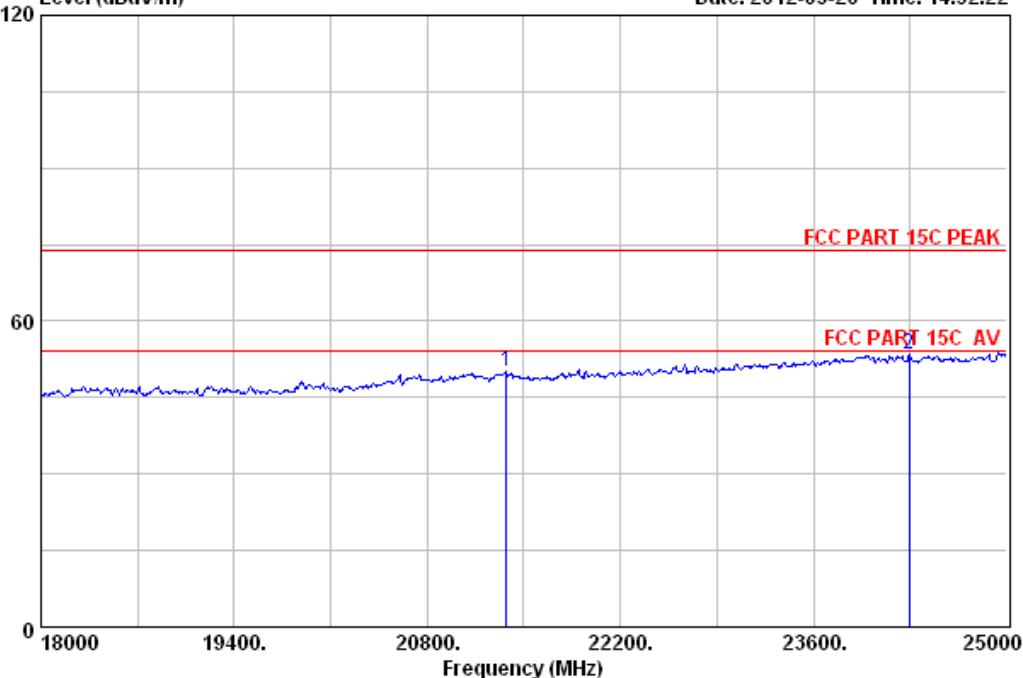
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Data: 427 File: D:\test data\2012\Desay.EMI (429)

Level (dBuV/m)

Date: 2012-05-20 Time: 14:52:22



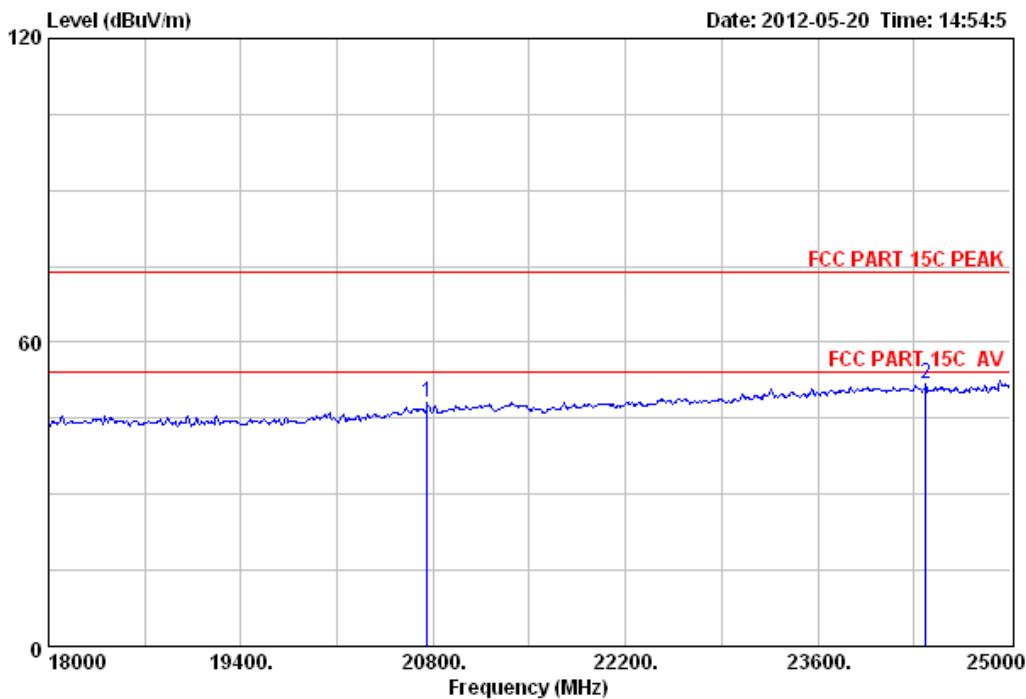
Site no.	:	3m Chamber	Data no. :	427
Dis. / Ant.	:	3m ANT ABOVE 18G	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	Temp:25.6';Humi:56%;Press:101.52kPa		
Engineer	:	Tony		
EUT	:	BLU-RAY DISC PLAYER		
Power	:	AC 120V/60Hz		
M/N	:	DS-B202-R		
Test Mode	:	IEEE 802.11g CH6 2437TX		

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Data: 428 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:54:5



Site no. : 3m Chamber Data no. : 428
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant.		Cable	Amp	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 20758.00	46.15	20.02	36.03	17.94	48.08	74.00	25.92	Peak	
2 24384.00	45.68	22.25	33.38	17.16	51.71	74.00	22.29	Peak	

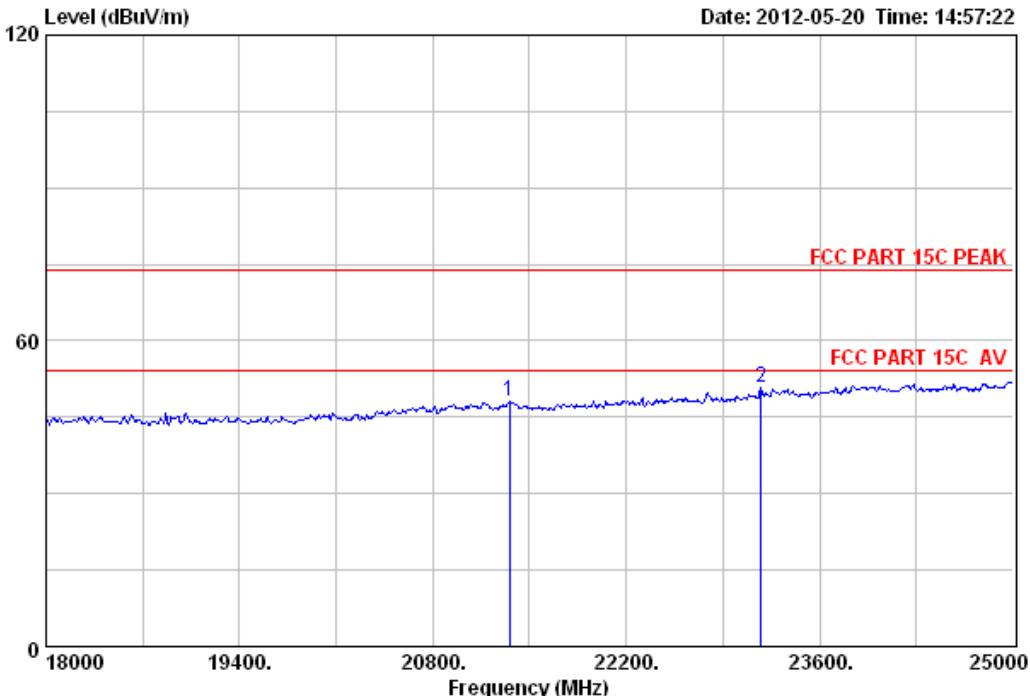
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 429 File: D:\test data\2012\4\Desay.EMI (429)

Date: 2012-05-20 Time: 14:57:22



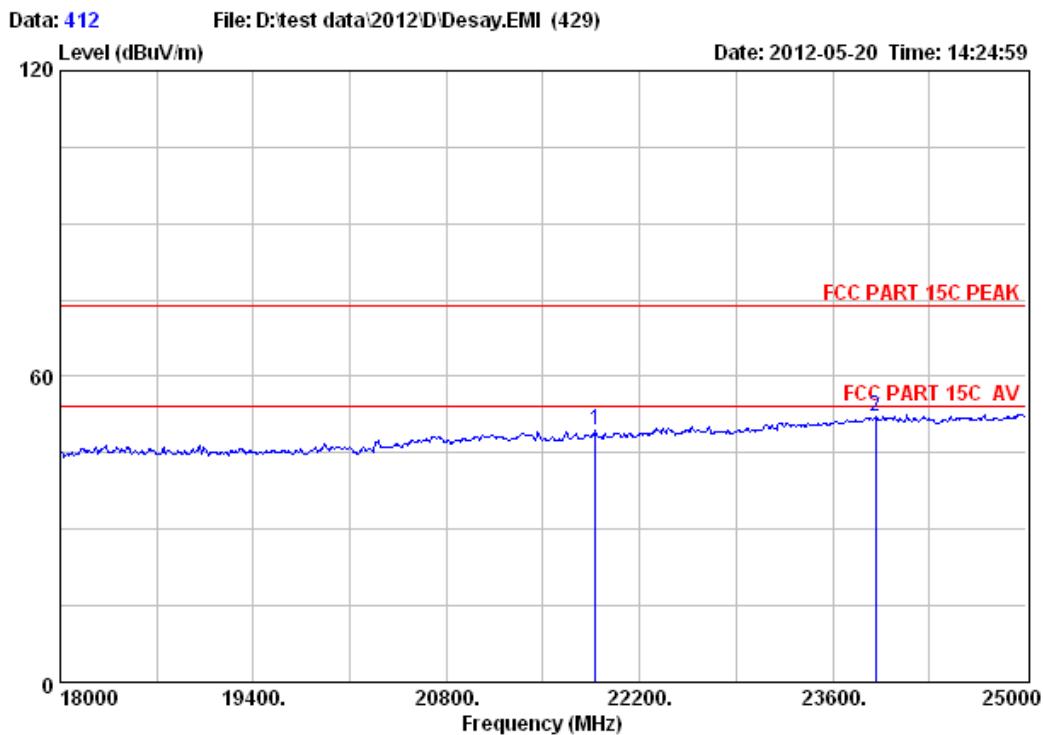
Site no. : 3m Chamber Data no. : 429
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21353.00	46.09	20.28	35.49	17.09	47.97	74.00	26.03	Peak
2 23173.00	45.63	21.30	33.67	17.52	50.78	74.00	23.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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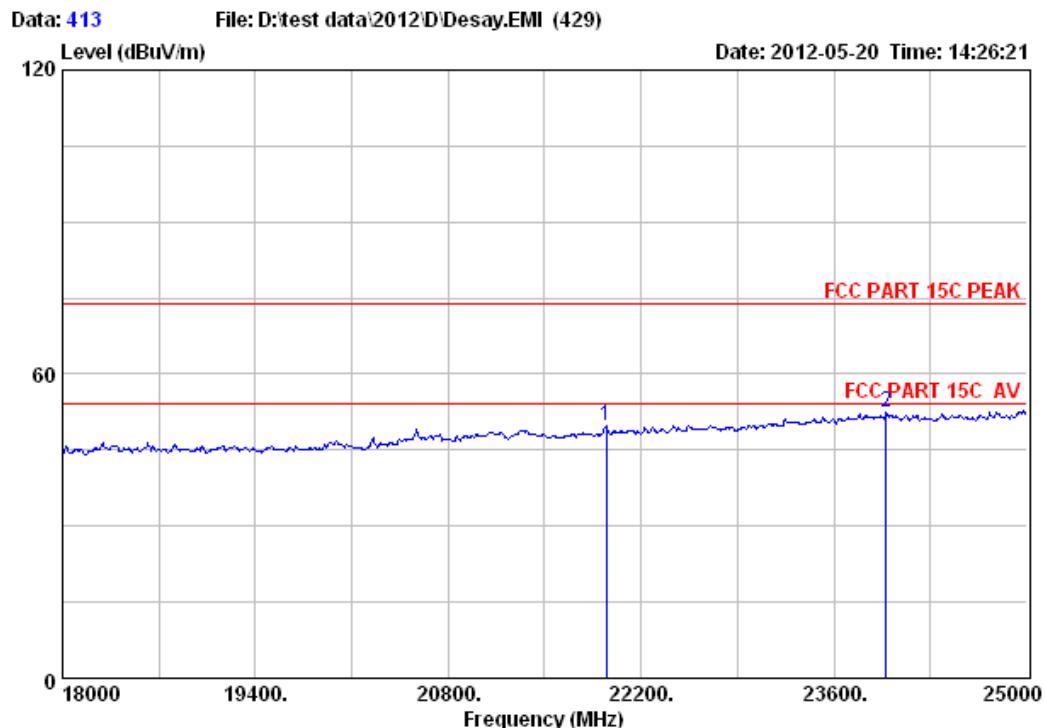
Site no. : 3m Chamber Data no. : 412
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21878.00	45.78	20.51	35.01	18.09	49.37	74.00	24.63 Peak
2	23908.00	45.62	21.96	32.90	17.62	52.30	74.00	21.70 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 413
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

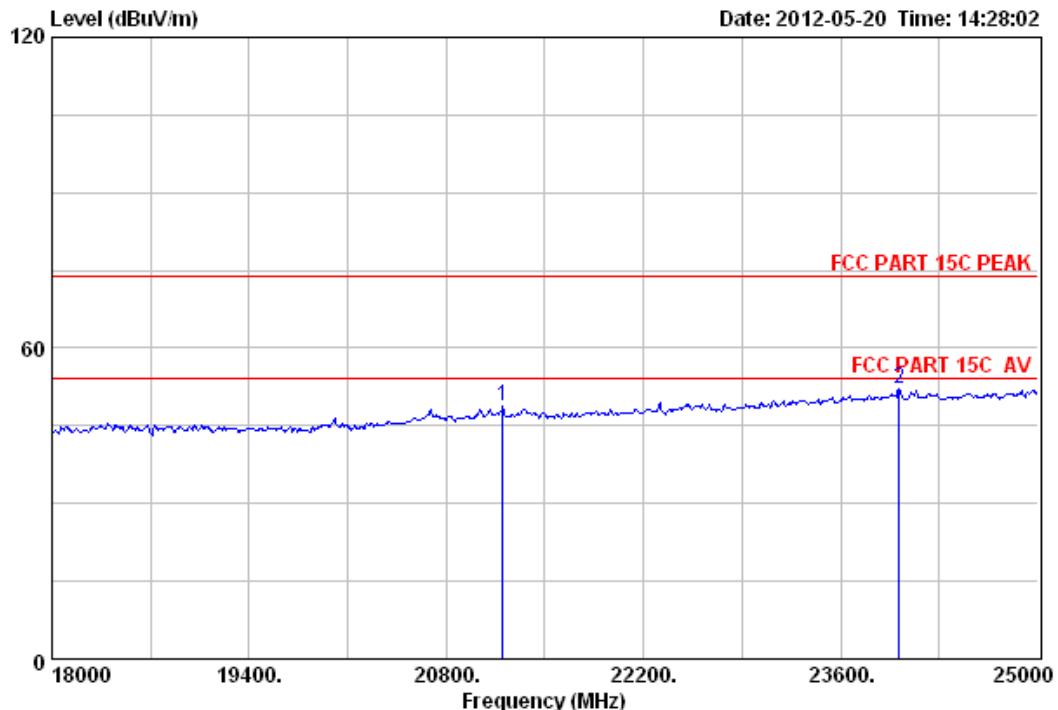
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21948.00	45.74	20.54	34.94	18.58	49.92	74.00	24.08	Peak
2 23978.00	45.60	22.03	32.83	17.51	52.31	74.00	21.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 414 File: D:\test data\2012\0\Desay.EMI (429)



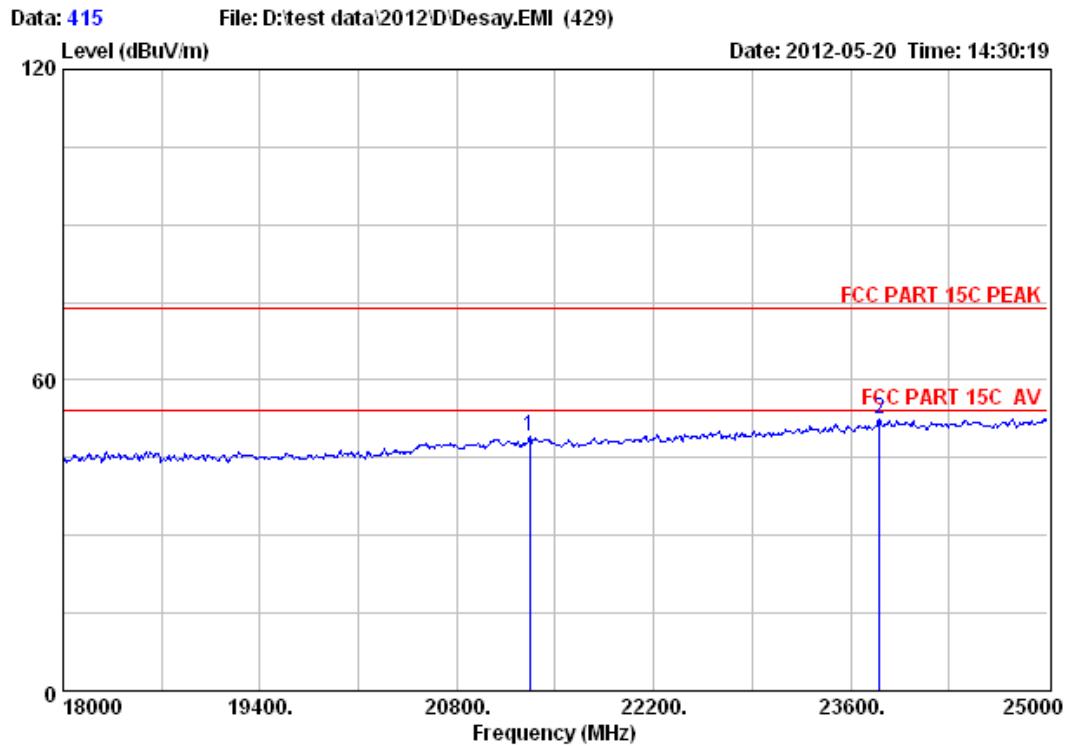
Site no. : 3m Chamber Data no. : 414
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
				(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 21199.00	46.18	20.22	35.62	17.99	48.77	74.00	25.23	Peak
2 24013.00	45.60	22.05	32.84	17.46	52.27	74.00	21.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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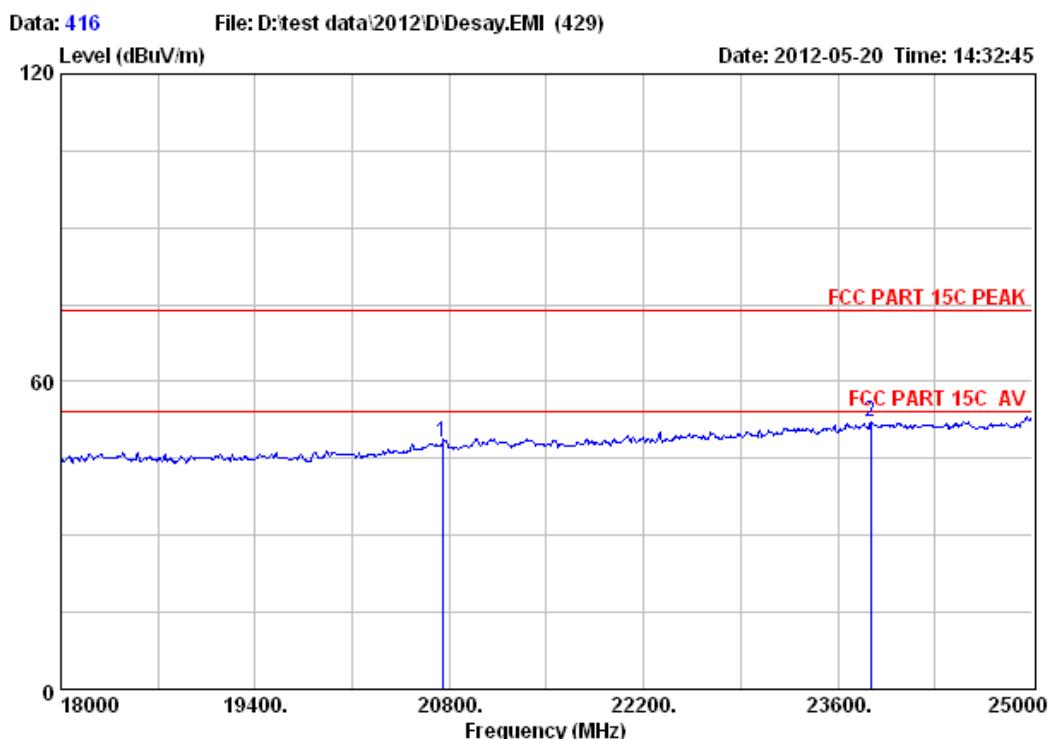
Site no. : 3m Chamber Data no. : 415
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuW)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21318.00	46.10	20.27	35.51	18.40	49.26	74.00	24.74	Peak
2 23803.00	45.64	21.87	33.01	18.07	52.57	74.00	21.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 416
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	20751.00	46.15	20.02	36.03	18.00	48.14	74.00	25.86 Peak
2	23838.00	45.63	21.90	32.96	17.44	52.01	74.00	21.99 Peak

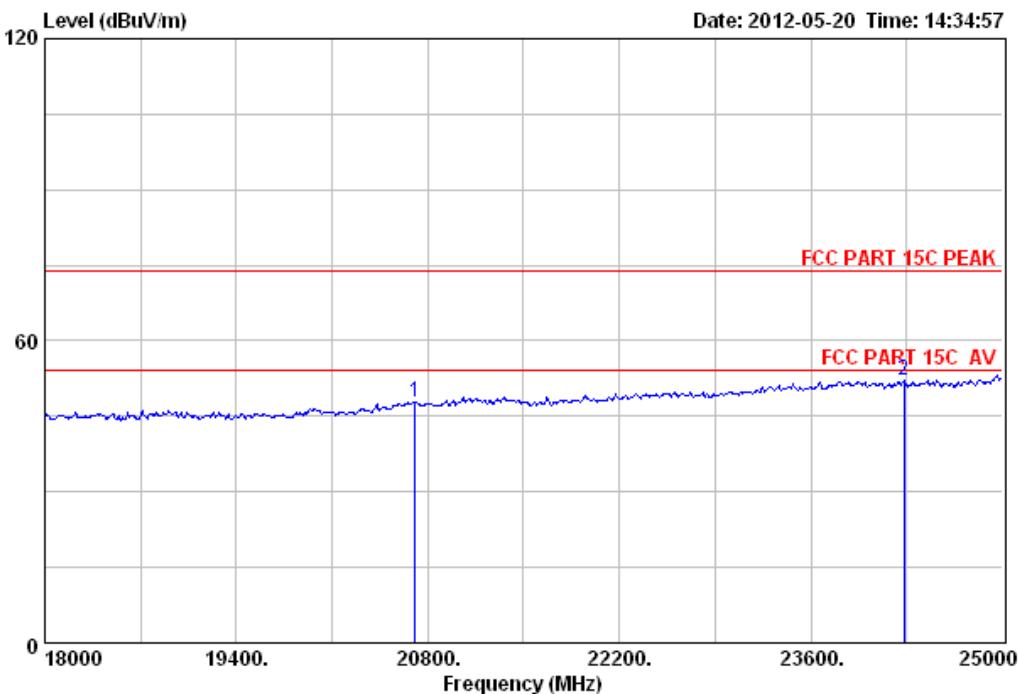
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 417 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:34:57



Site no. : 3m Chamber Data no. : 417
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

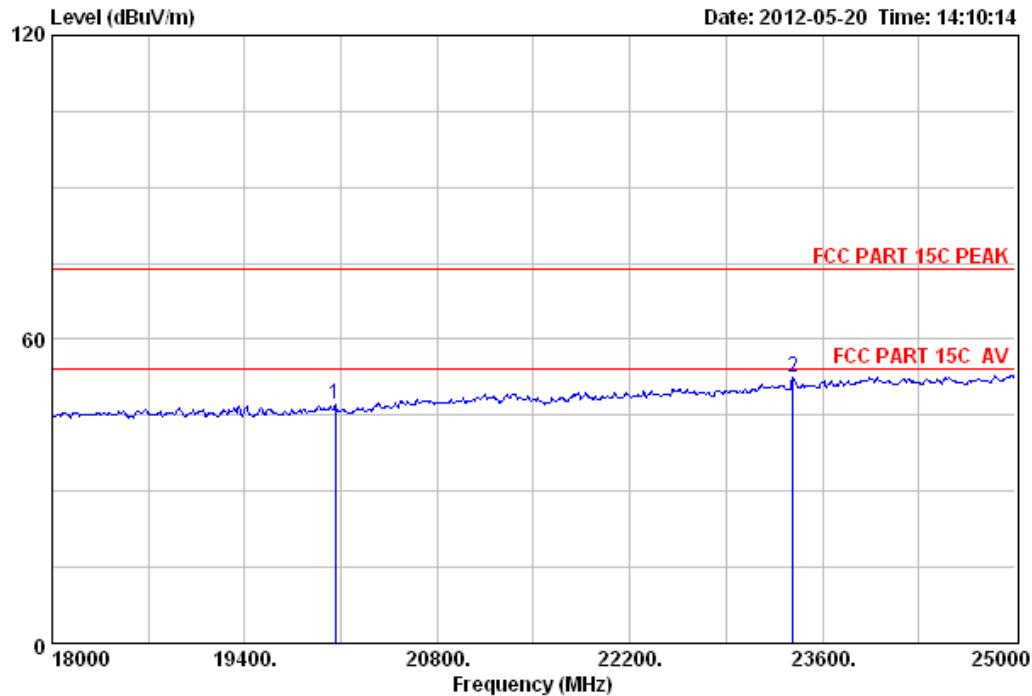
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 20709.00	46.12	20.00	36.07	17.76	47.81	74.00	26.19	Peak
2 24279.00	45.65	22.20	33.23	17.60	52.22	74.00	21.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 406 File: D:\test data\2012\0\Desay.EMI (429)



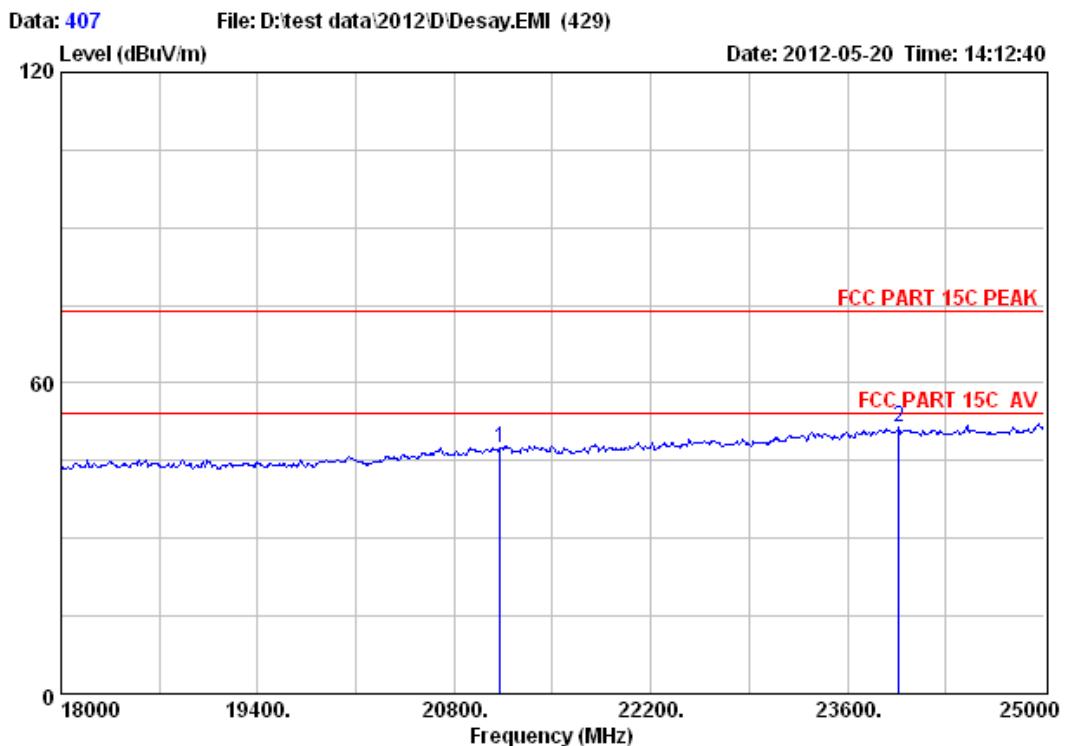
Site no. : 3m Chamber Data no. : 406
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 20058.00	46.09	19.71	36.66	17.92	47.06	74.00	26.94	Peak
2 23383.00	45.68	21.49	33.46	18.88	52.59	74.00	21.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 407
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21129.00	46.22	20.19	35.69	16.90	47.62	74.00	26.38	Peak
2 23964.00	45.61	22.02	32.83	16.55	51.35	74.00	22.65	Peak

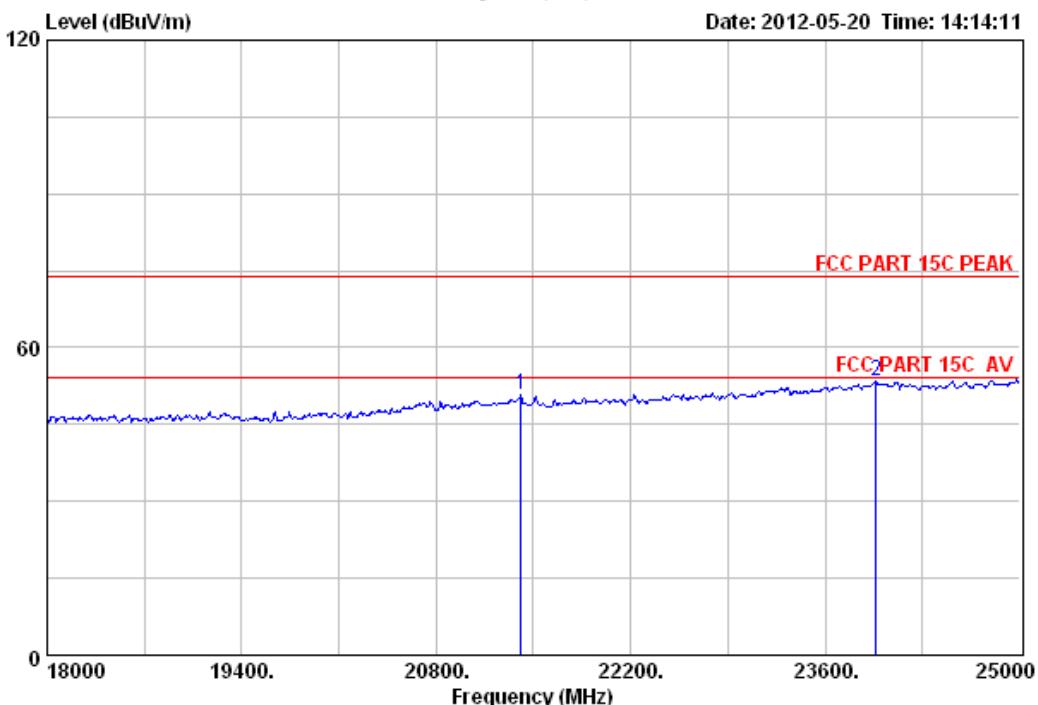
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 408 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:14:11



Site no. : 3m Chamber Data no. : 408
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21409.00	46.05	20.31	35.44	19.72	50.64	74.00	23.36	Peak
2 23964.00	45.61	22.02	32.83	18.67	53.47	74.00	20.53	Peak

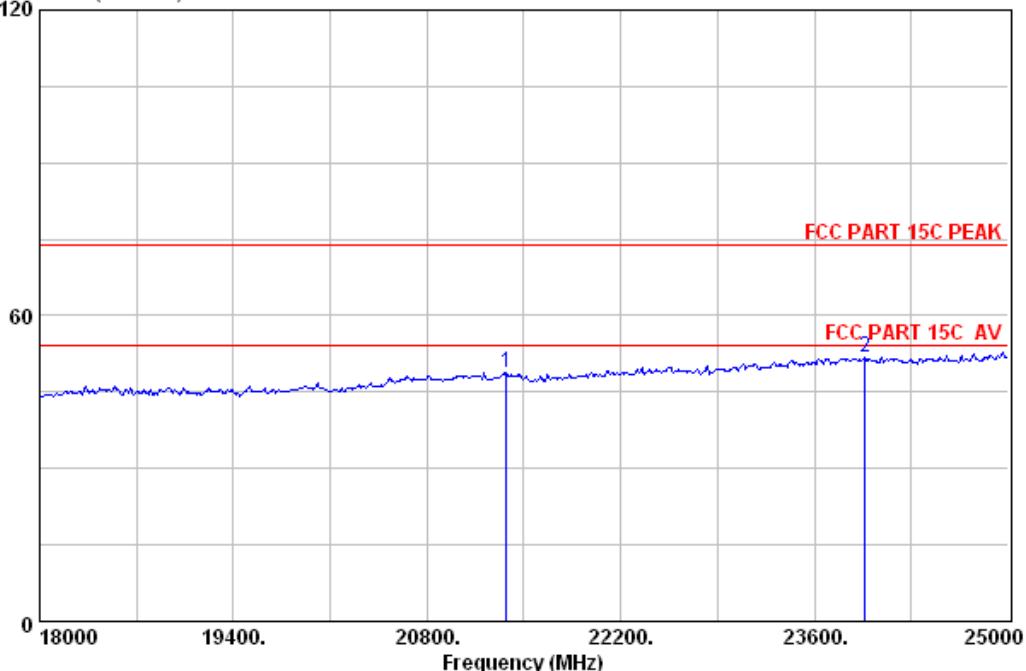
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 409 File: D:\test data\2012\Desay.EMI (429)

Level (dBuV/m) Date: 2012-05-20 Time: 14:16:25



Site no. : 3m Chamber Data no. : 409
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21374.00	46.08	20.29	35.46	17.85	48.76	74.00	25.24	Peak
2 23964.00	45.61	22.02	32.83	17.09	51.89	74.00	22.11	Peak

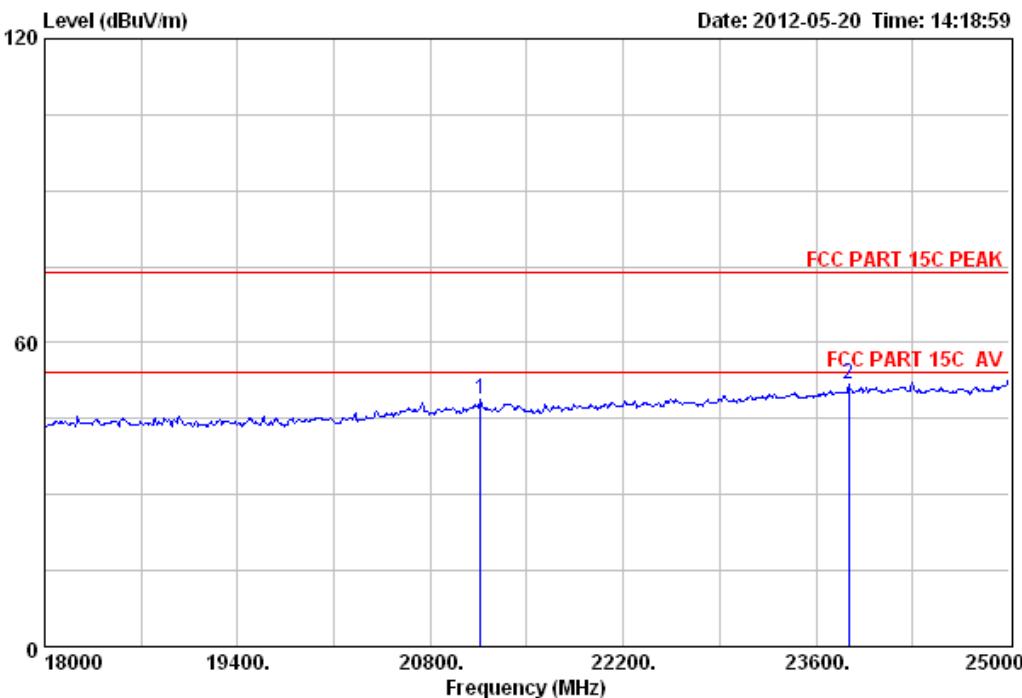
Remarks: 1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone, Houjie Town,
 Dongguan City, Guangdong, China
 Tel:+86-769-83081888
 Fax:+86-769-83081878

Data: 410 File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 14:18:59



Site no. : 3m Chamber Data no. : 410
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

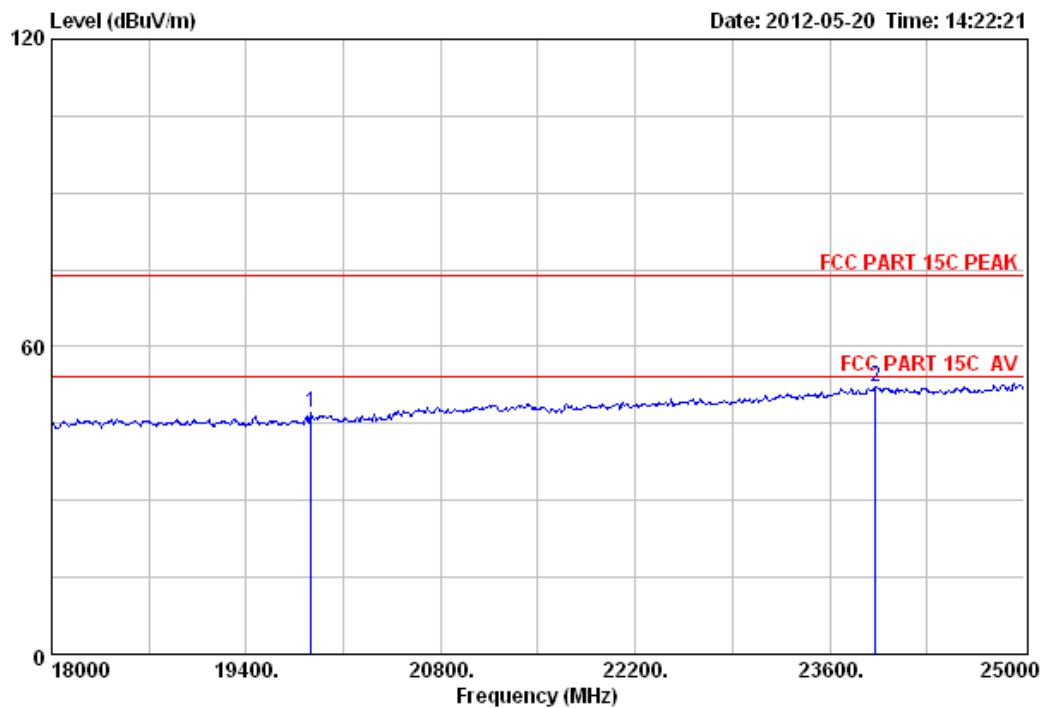
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21164.00	46.20	20.20	35.64	17.89	48.65	74.00	25.35	Peak
2 23838.00	45.63	21.90	32.96	17.23	51.80	74.00	22.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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 Dongguan City, Guangdong, China
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 Fax: +86-769-83081878

Data: 411 File: D:\test data\2012\0\Desay.EMI (429)



Site no. : 3m Chamber Data no. : 411
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 19869.00	46.05	19.54	36.59	17.97	46.97	74.00	27.03	Peak
2 23929.00	45.61	21.99	32.88	17.51	52.23	74.00	21.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSION

5.1. Limit

In any 100kHz 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.

5.2. Test Procedure

The transmitter output was connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

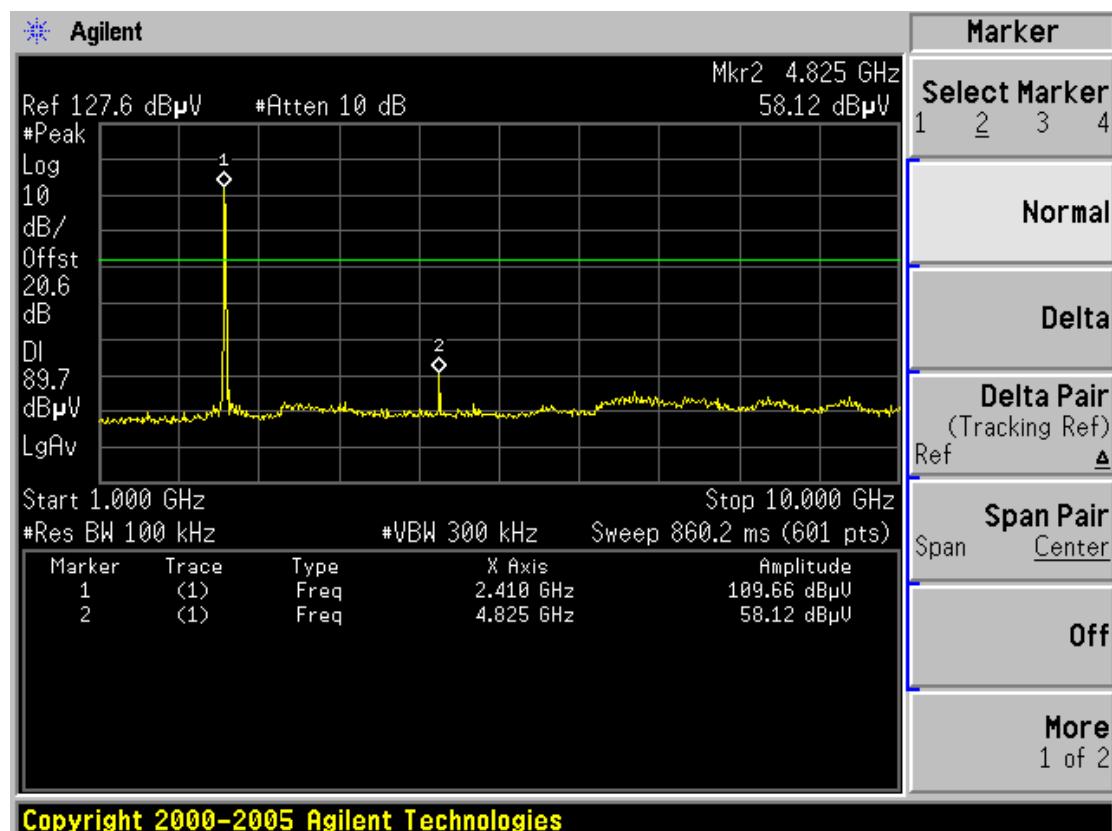
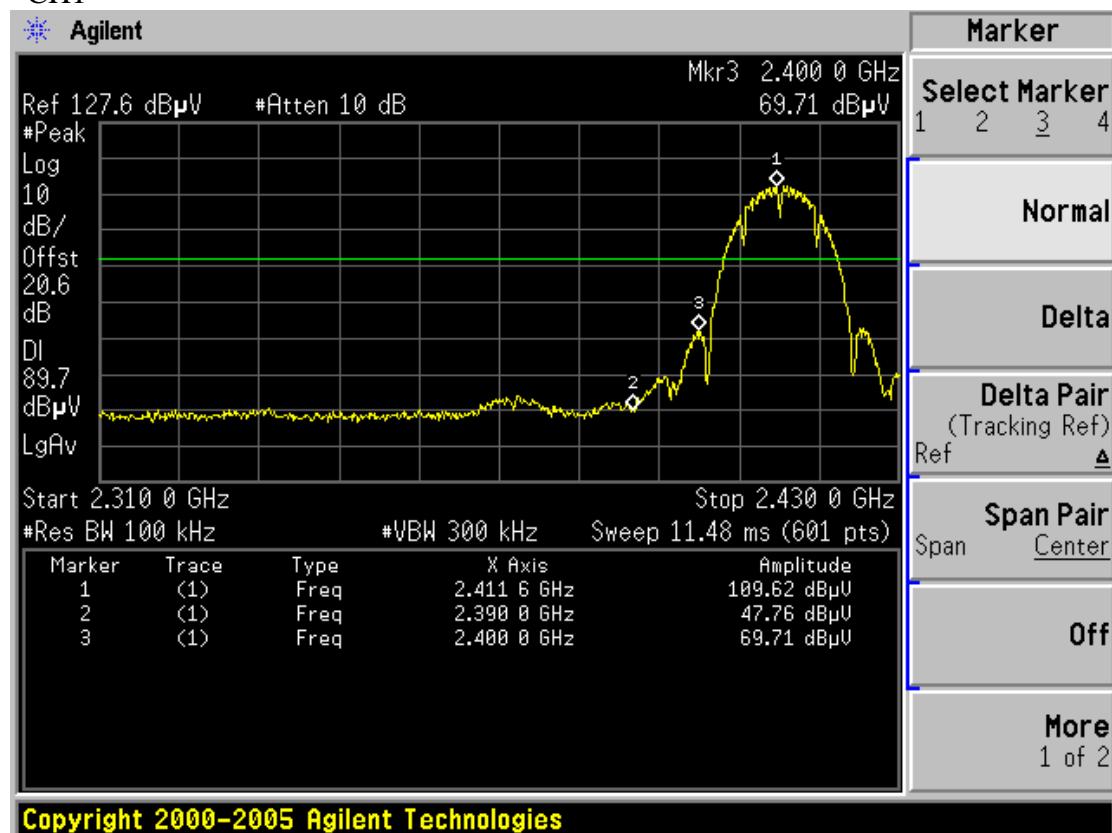
5.3. Test Result

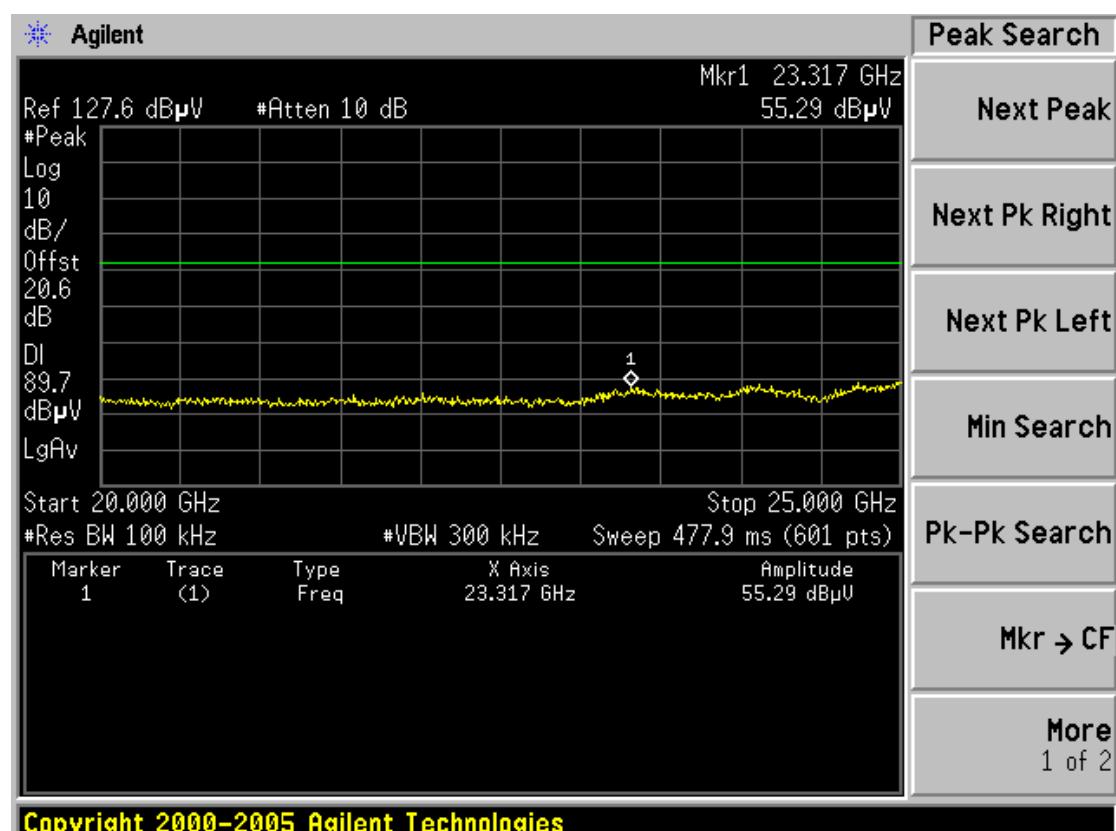
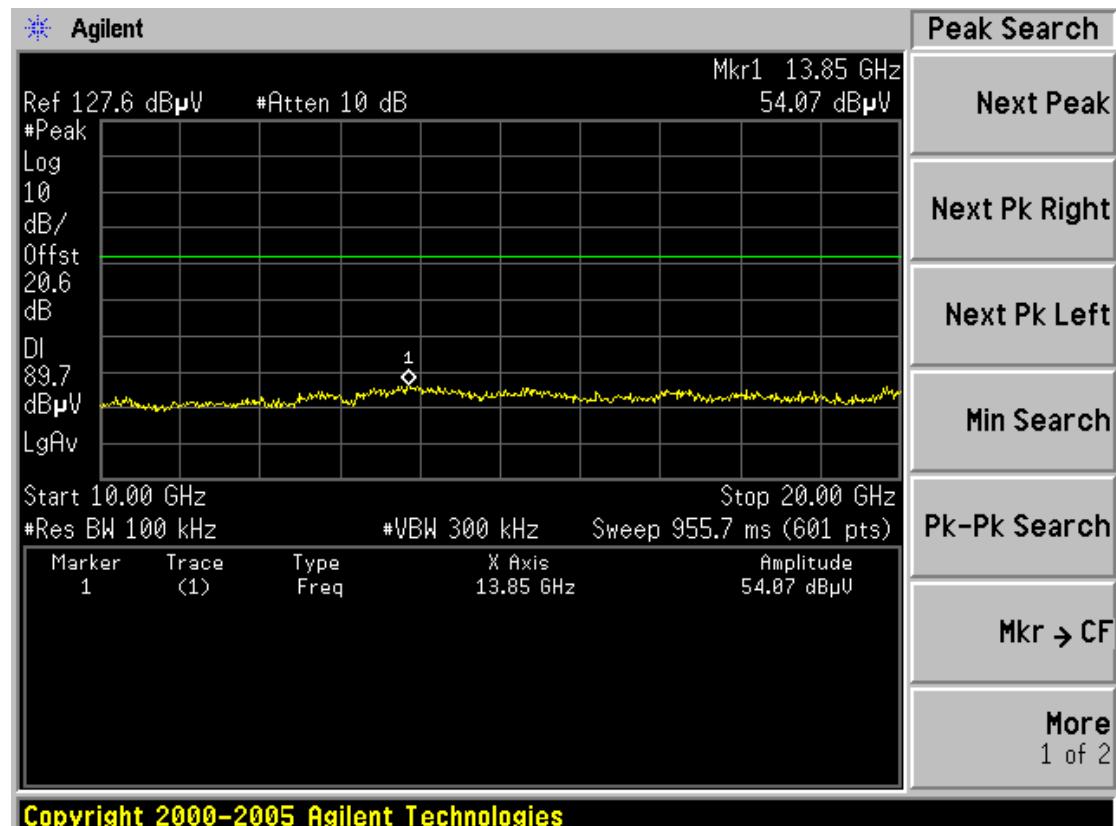
PASS (The testing data was attached in the next pages.)

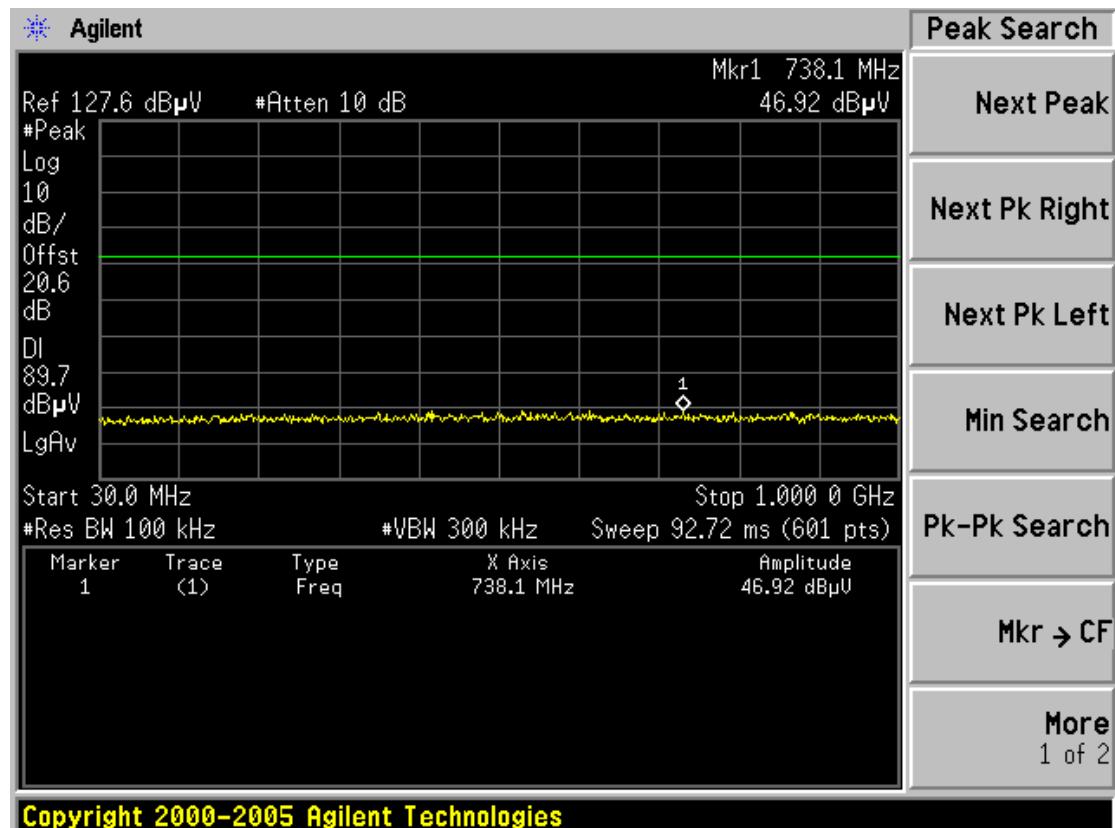
5.4. Test Data

Test Mode: IEEE 802.11b TX

CH1

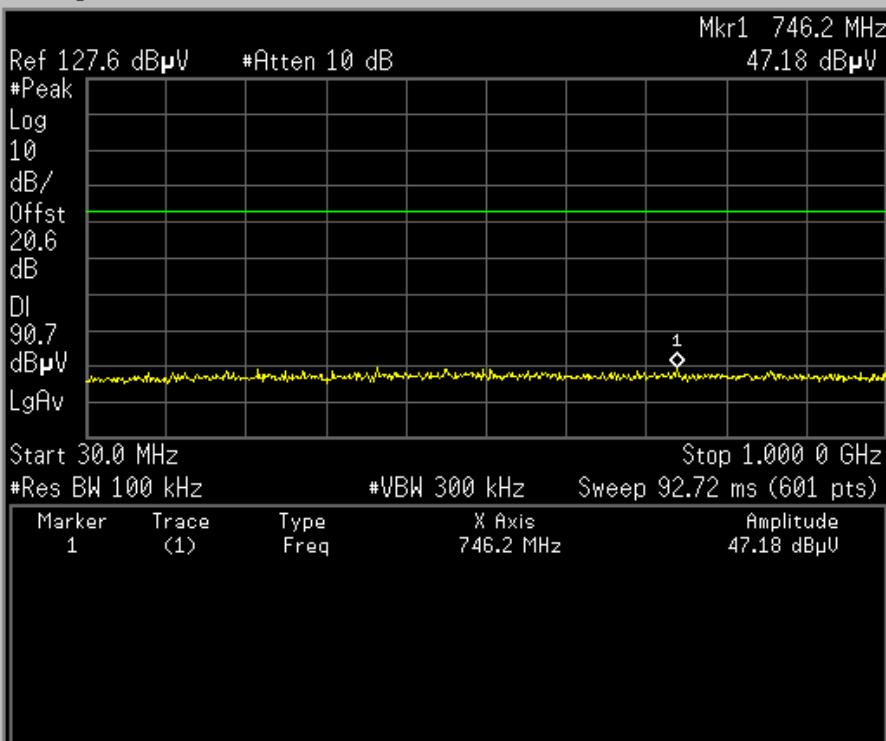






CH6

Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

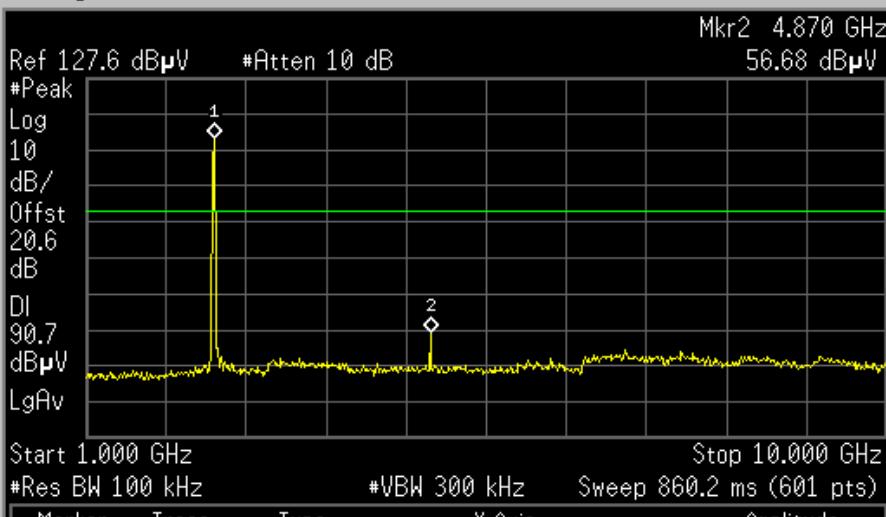
Pk-Pk Search

Mkr → CF

More
1 of 2

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Marker

Select Marker

1 2 3 4

Normal

Delta

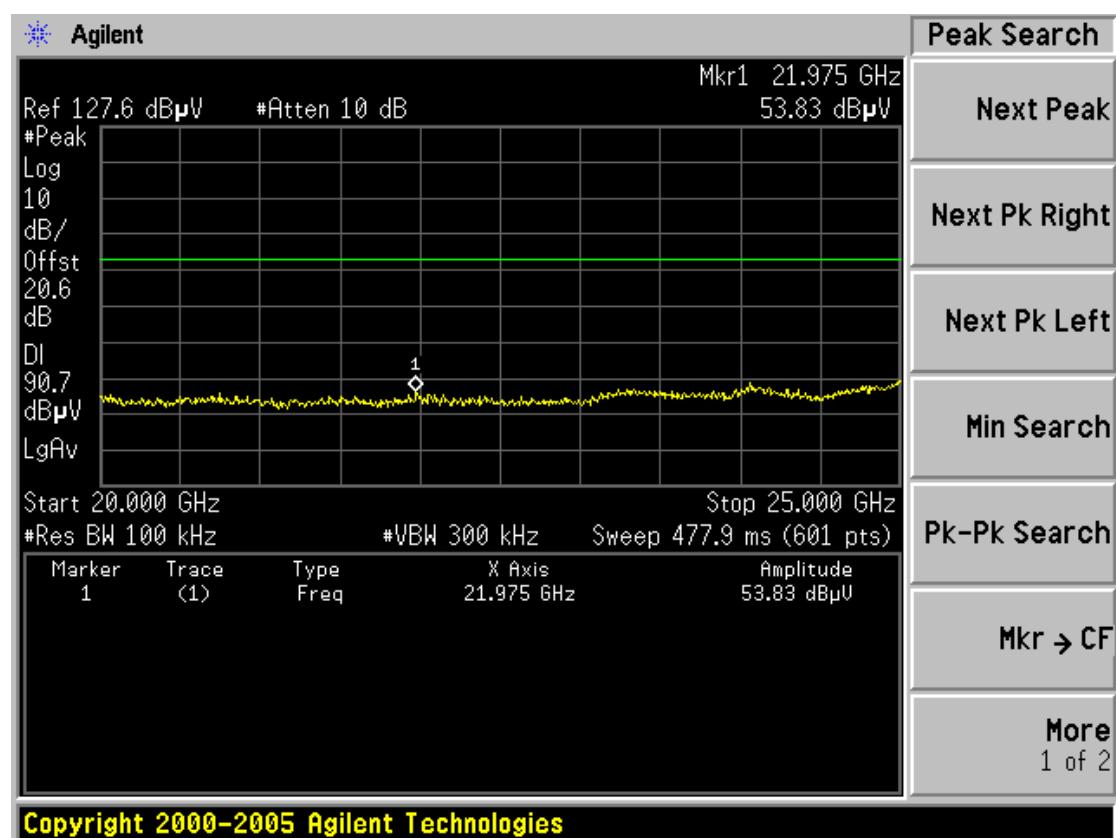
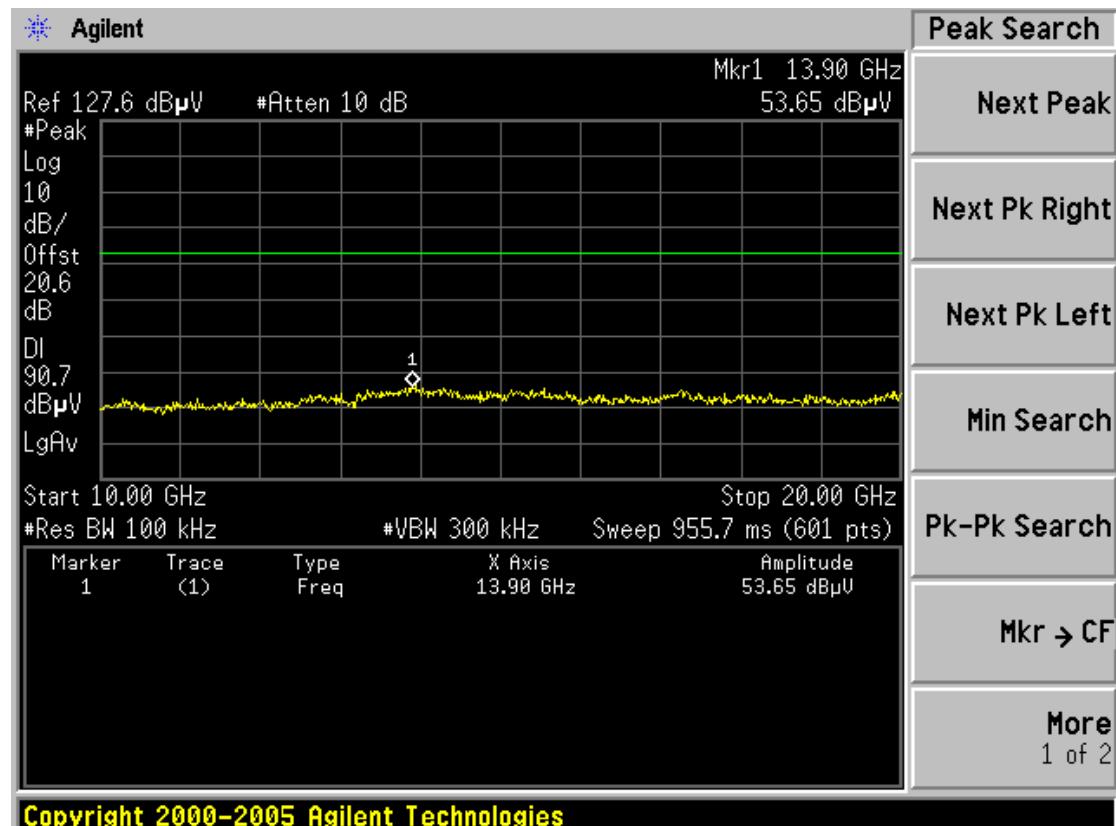
Delta Pair
(Tracking Ref)
Ref ▲Span Pair
Span Center

Off

More
1 of 2

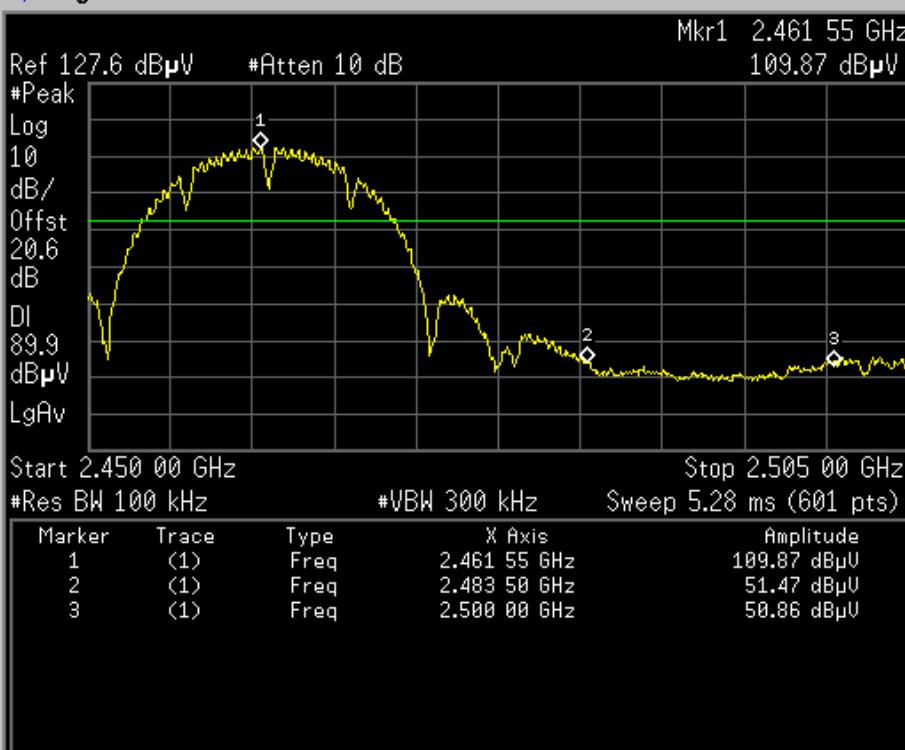
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CH11

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Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

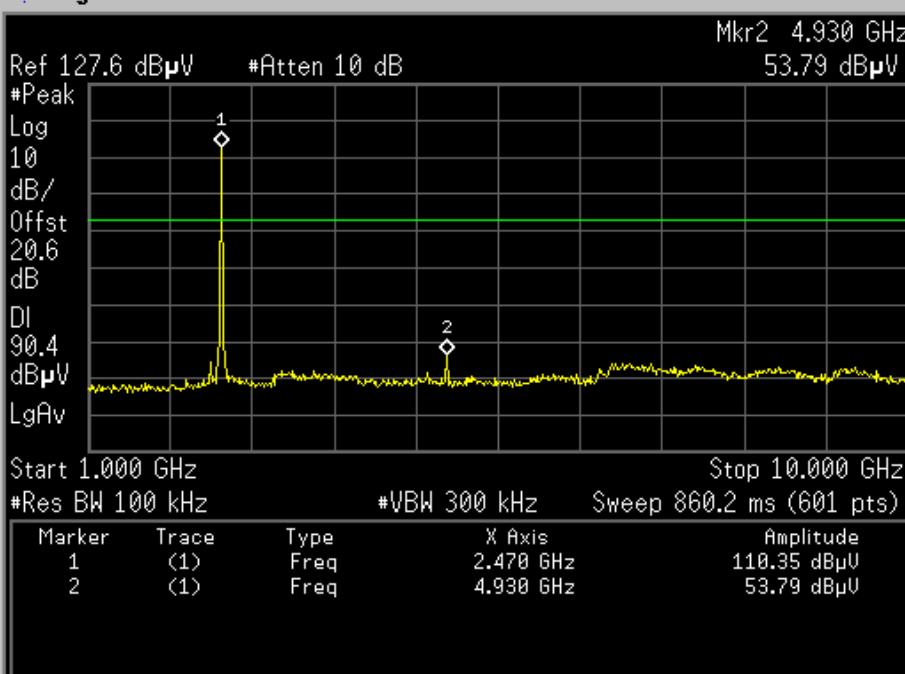
Pk-Pk Search

Mkr → CF

More
1 of 2

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Marker

Select Marker
1 2 3 4

Normal

Delta

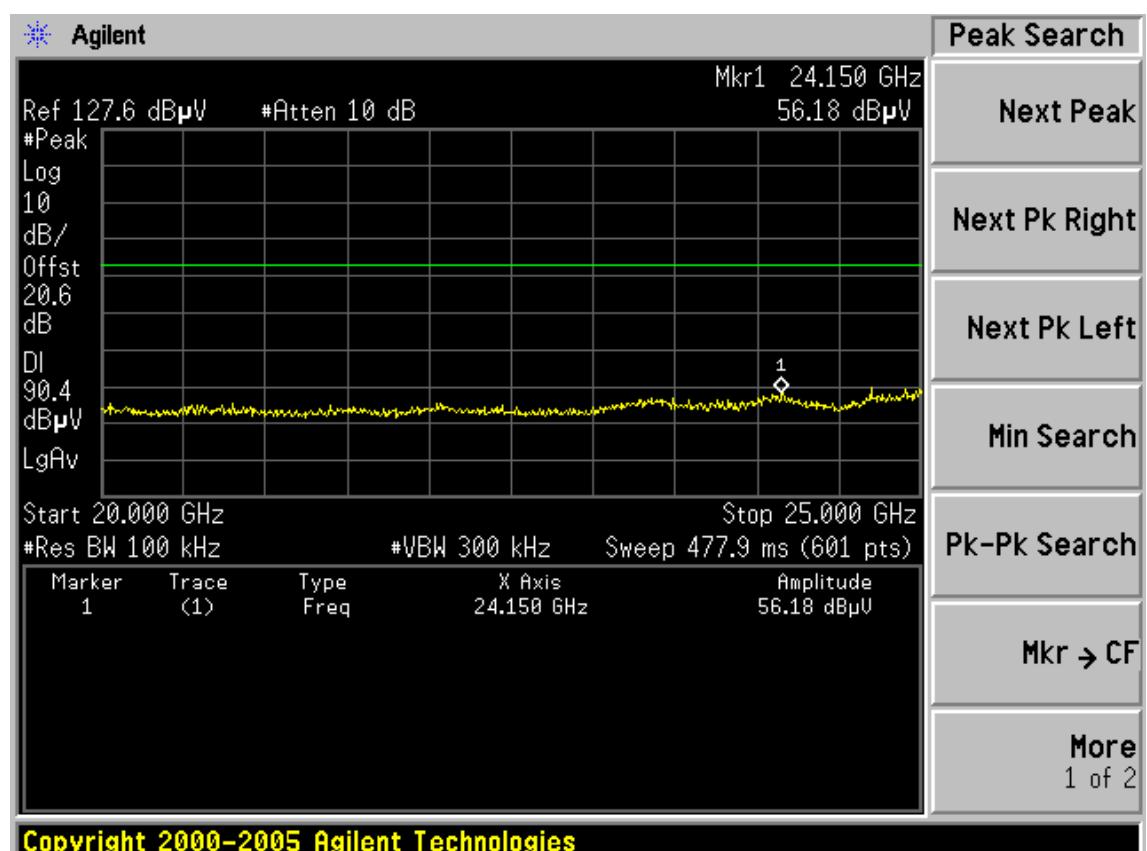
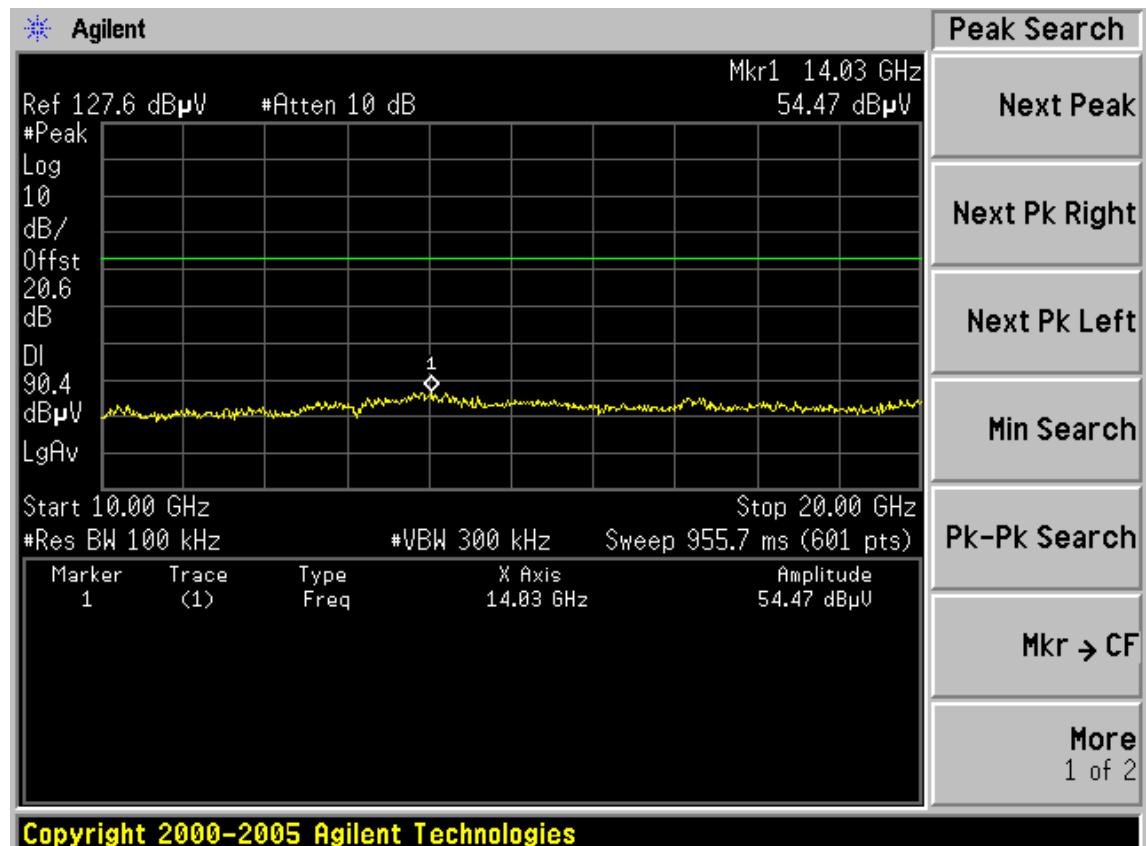
Delta Pair
(Tracking Ref)
Ref ▲Span Pair
Span Center

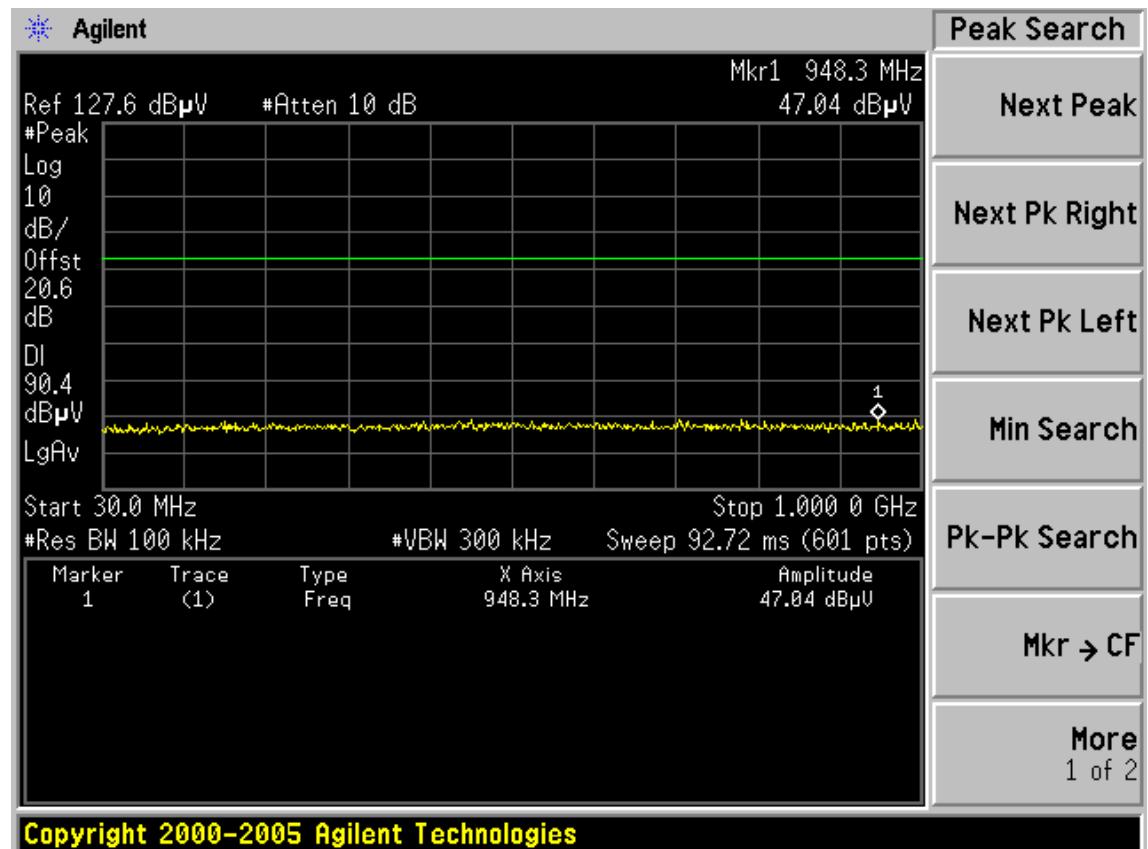
Off

More
1 of 2

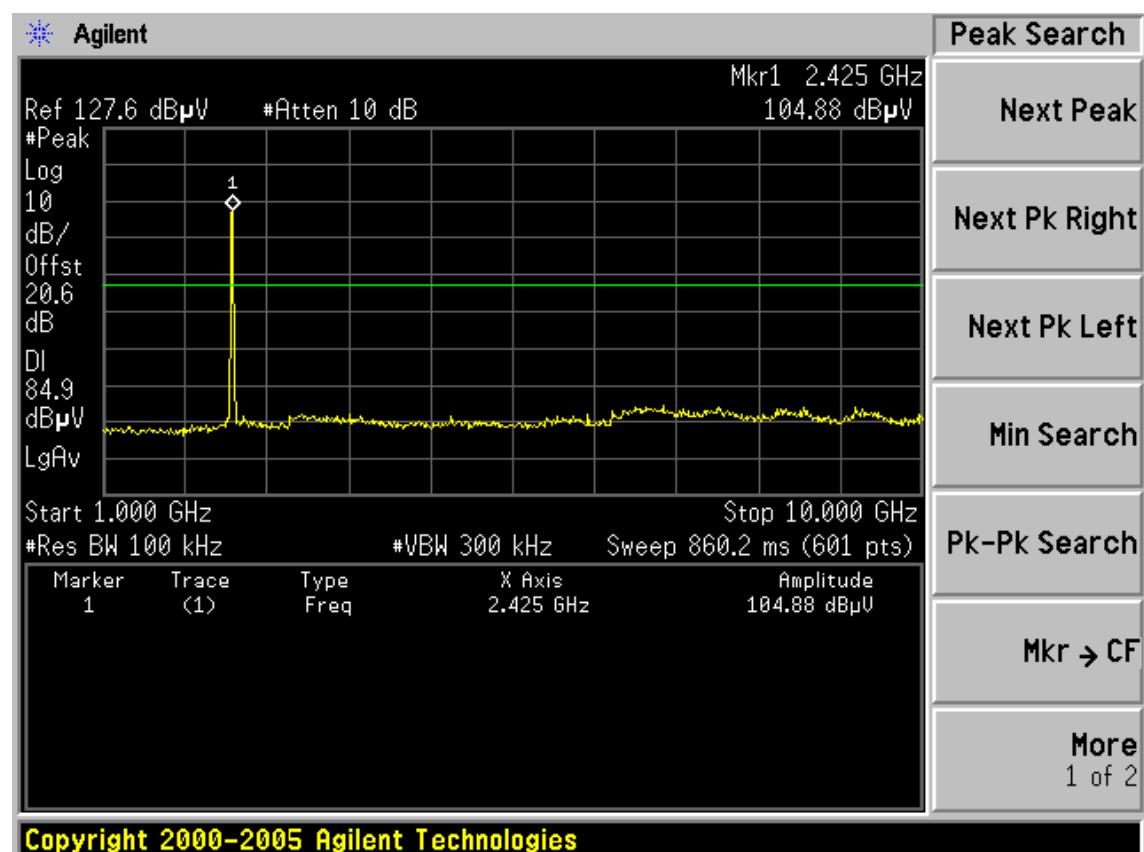
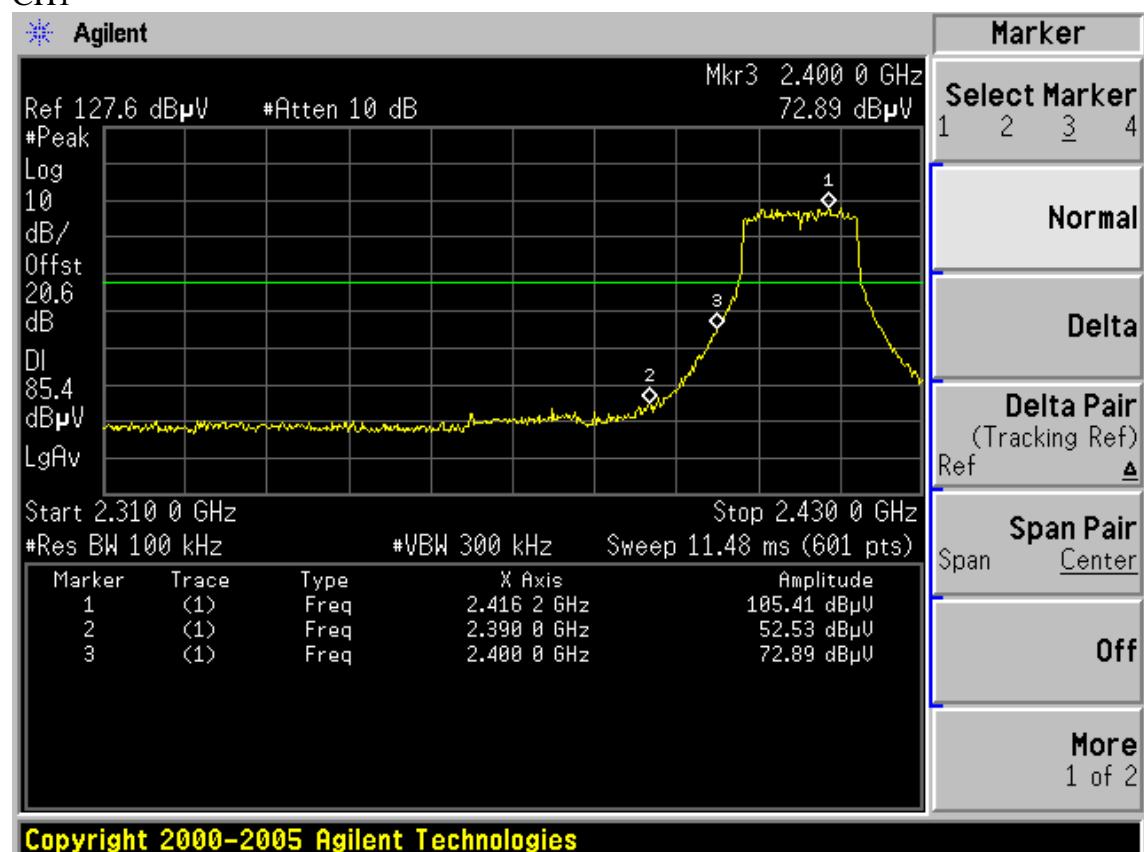
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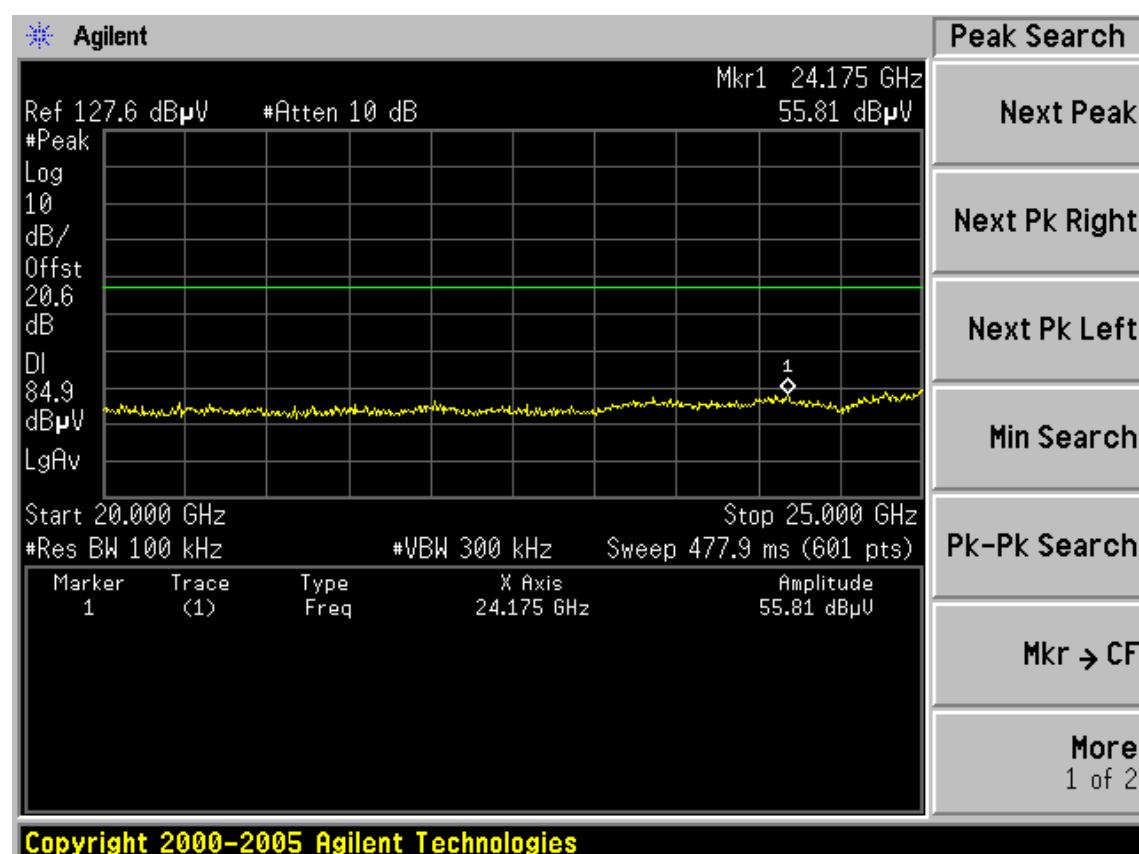
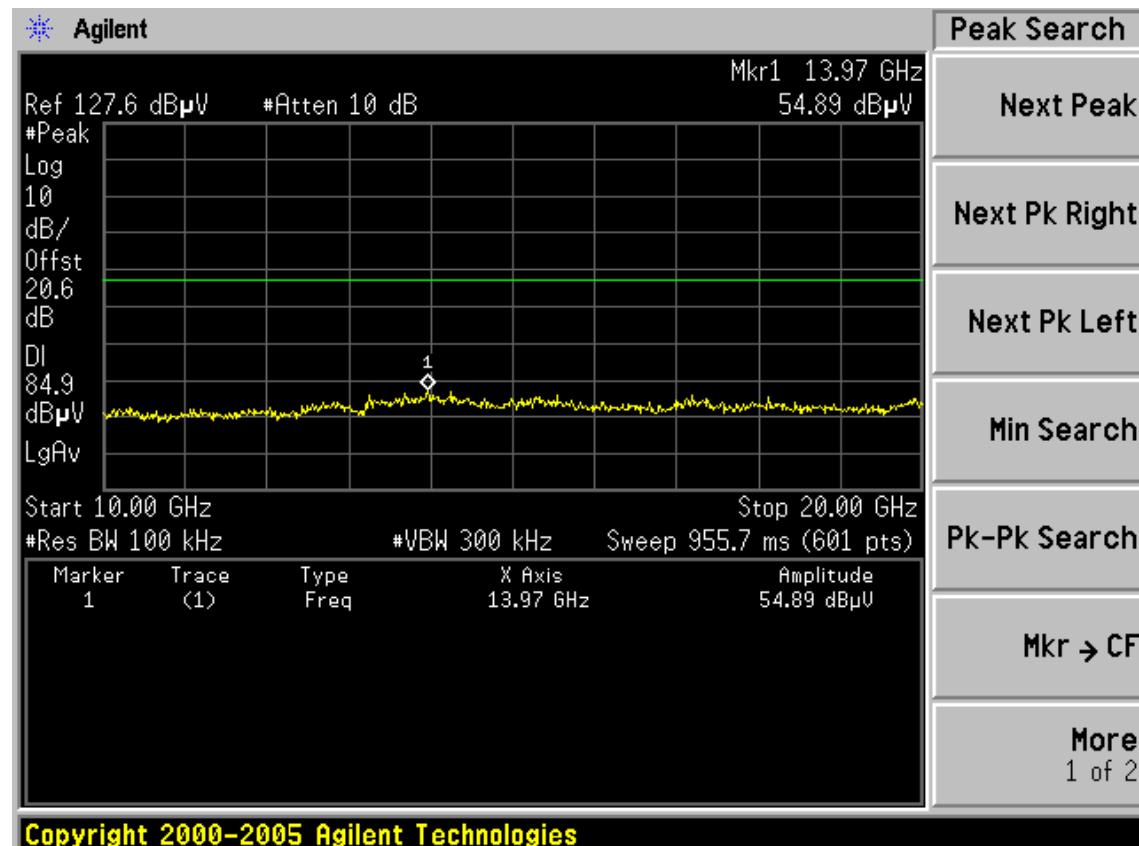


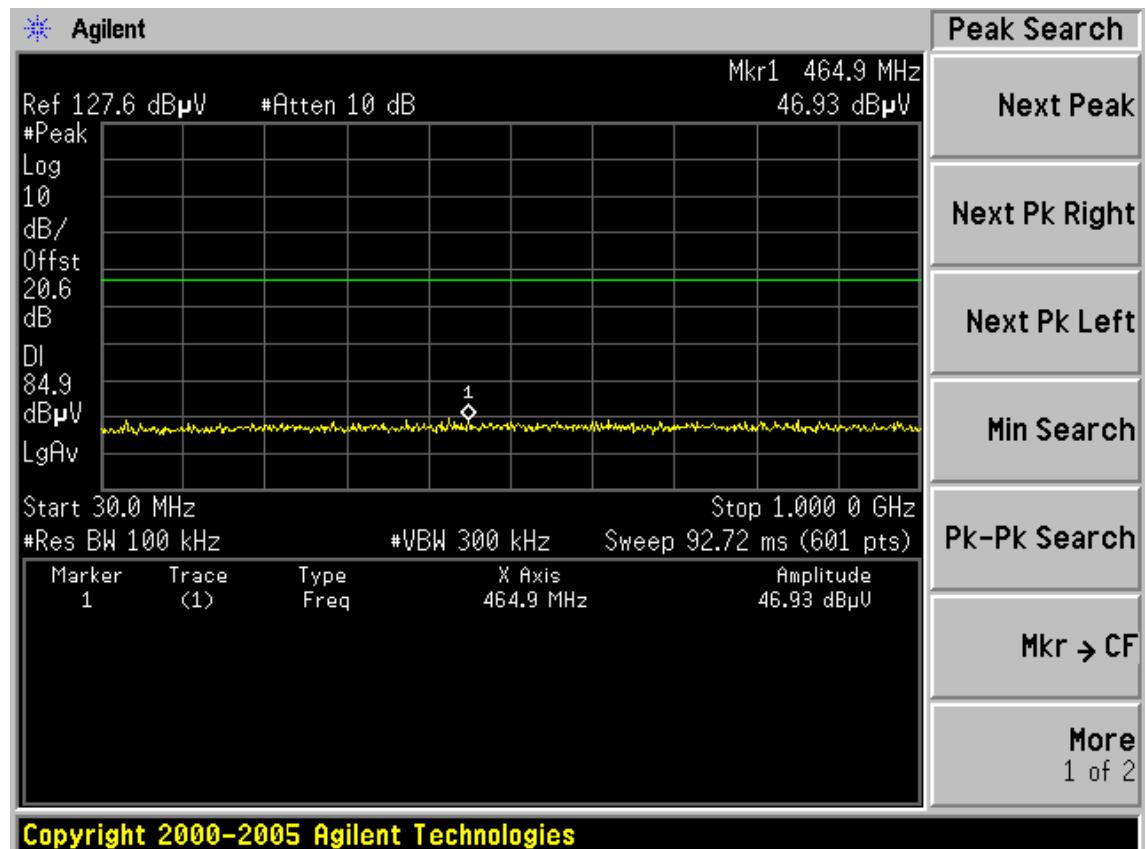




Test Mode: IEEE 802.11g TX
CH1

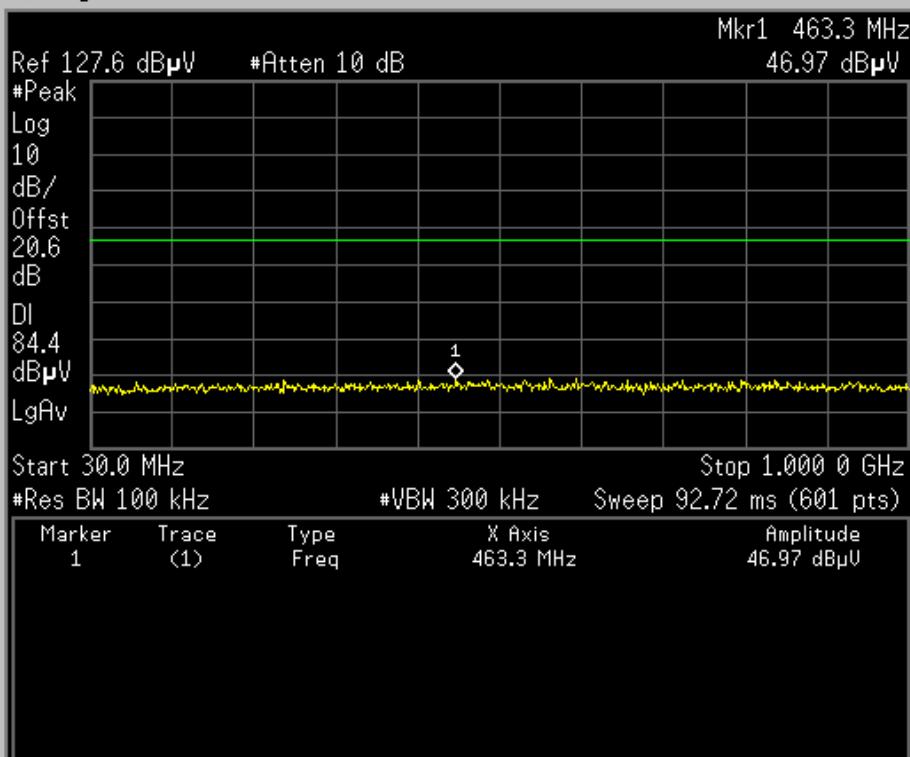






CH6

Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

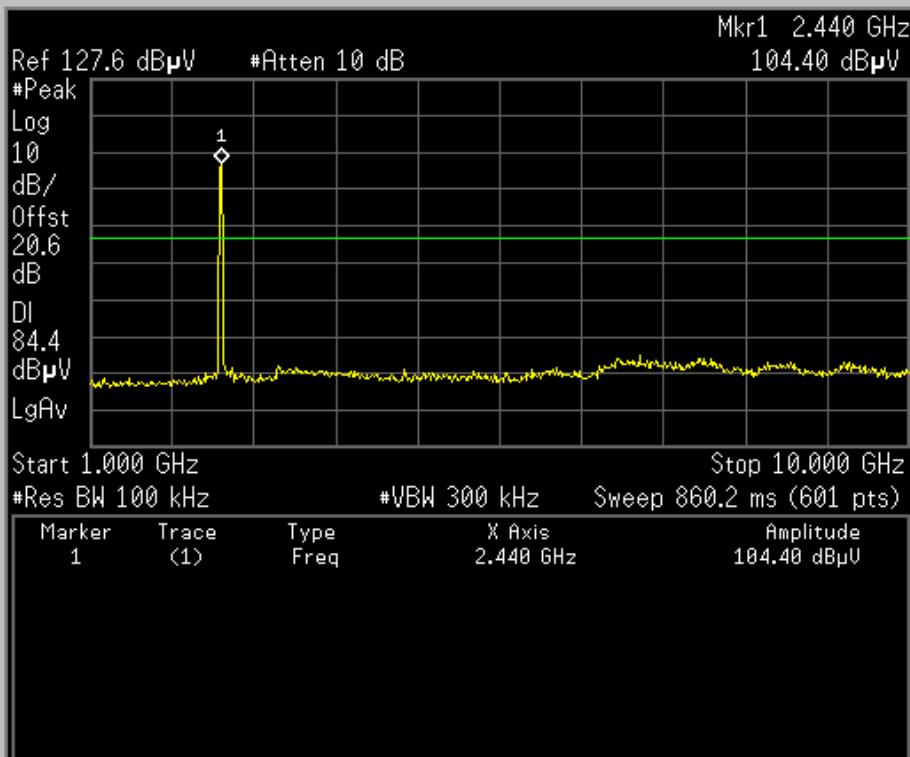
Pk-Pk Search

Mkr → CF

More
1 of 2

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Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

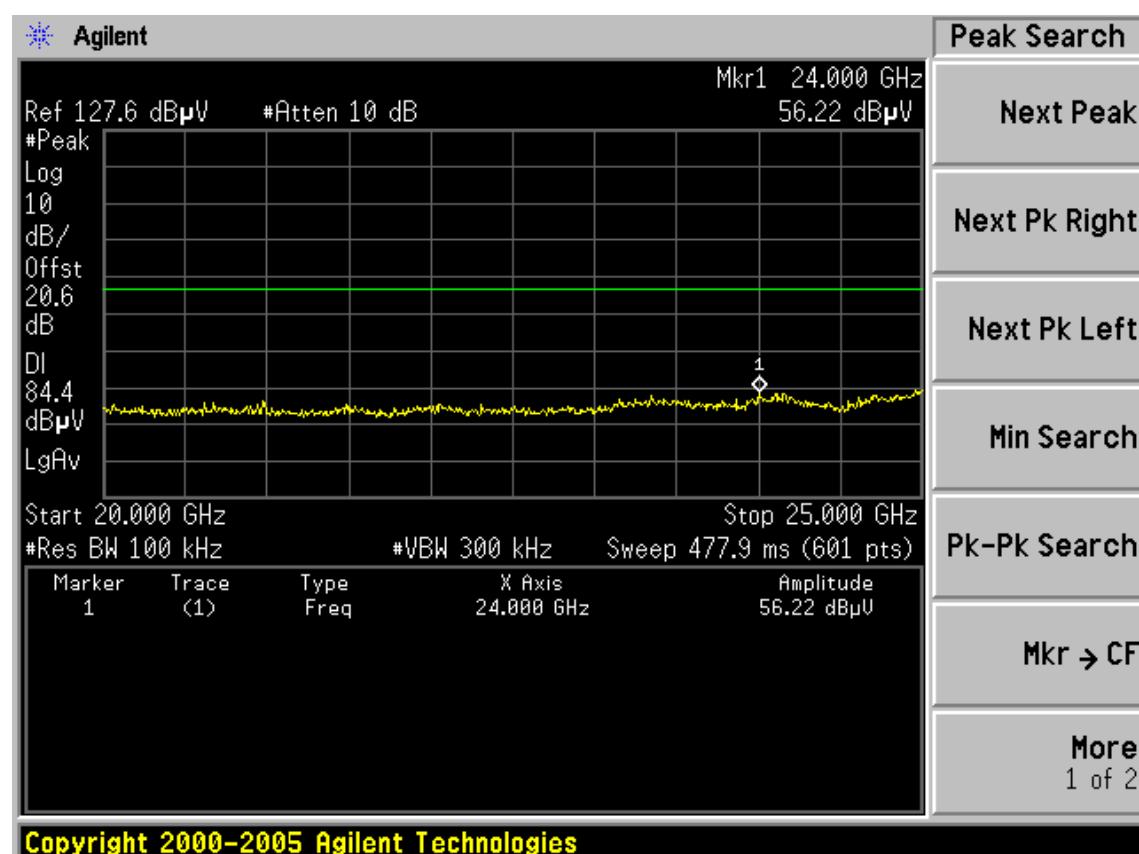
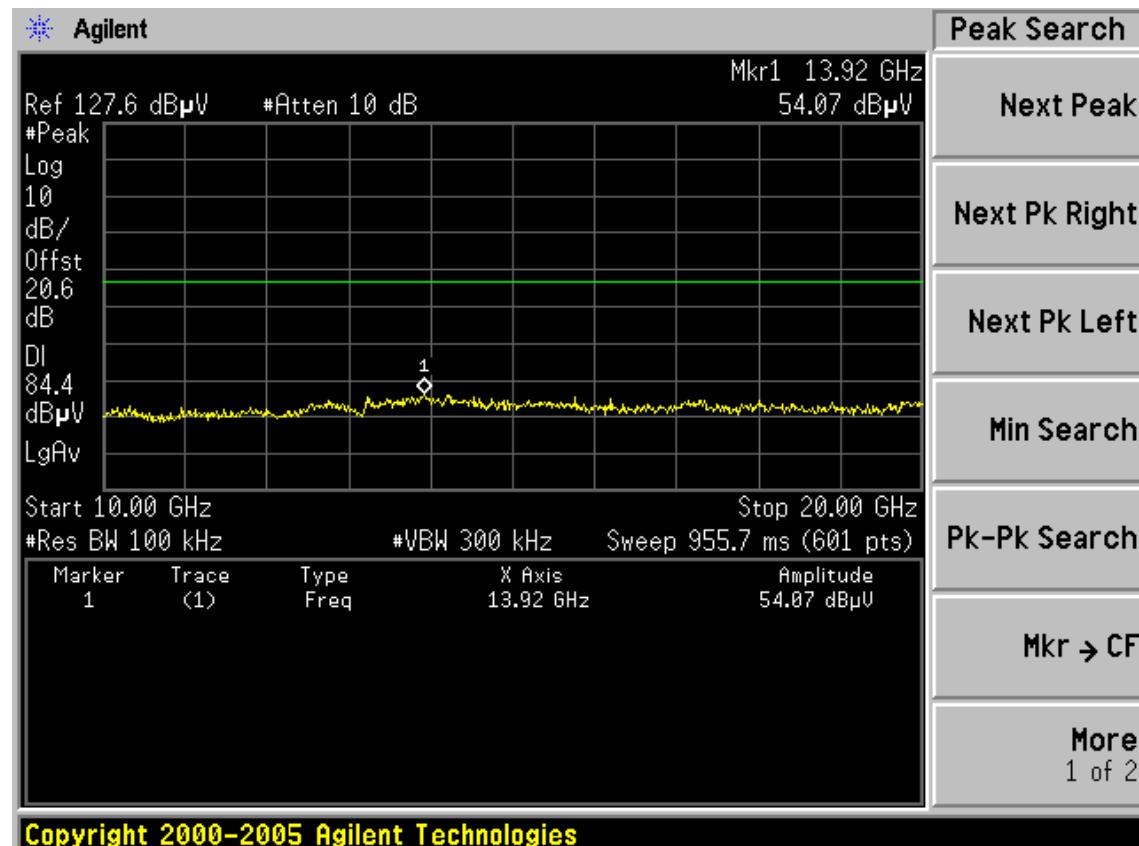
Pk-Pk Search

Mkr → CF

More
1 of 2

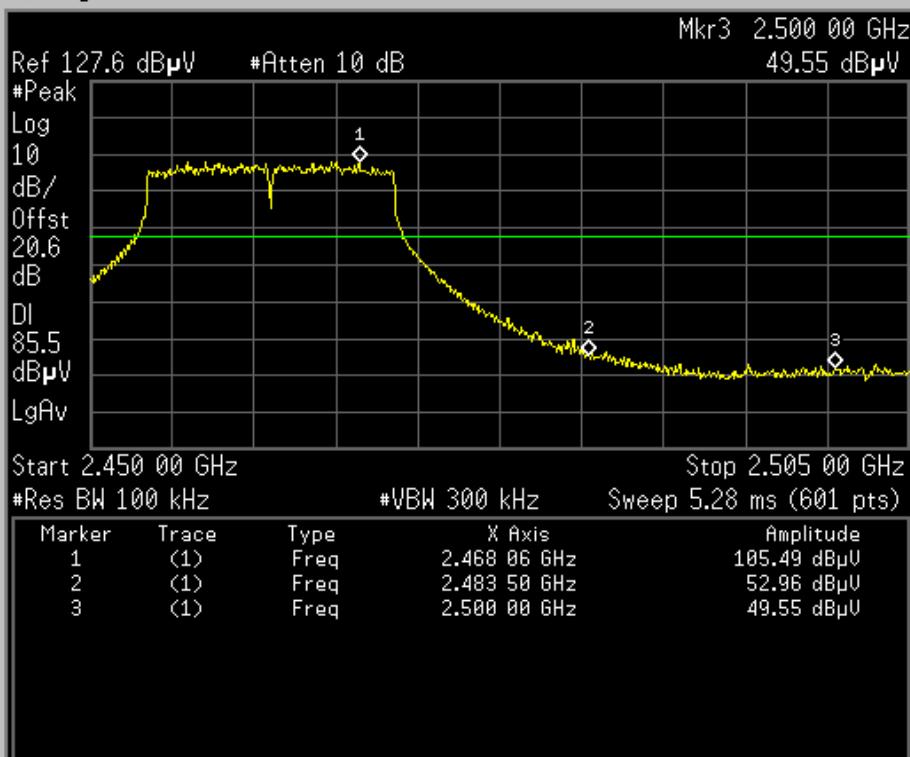
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CH11

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Marker

Select Marker

1 2 3 4

Normal

Delta

Delta Pair
(Tracking Ref)

Ref ▲

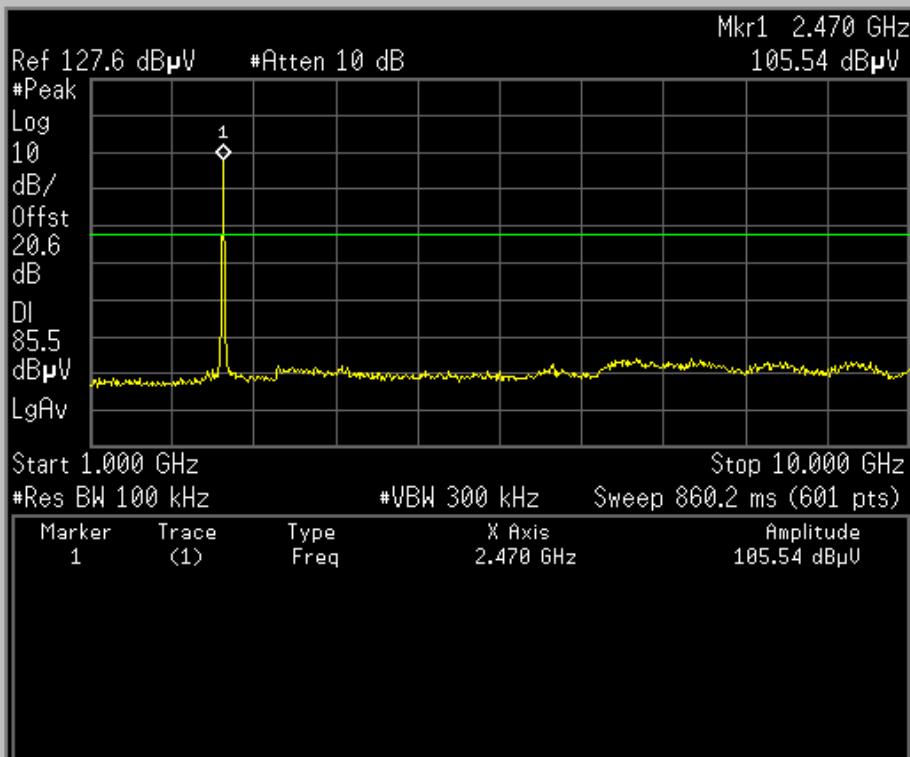
Span Pair
Span Center

Off

More
1 of 2

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Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

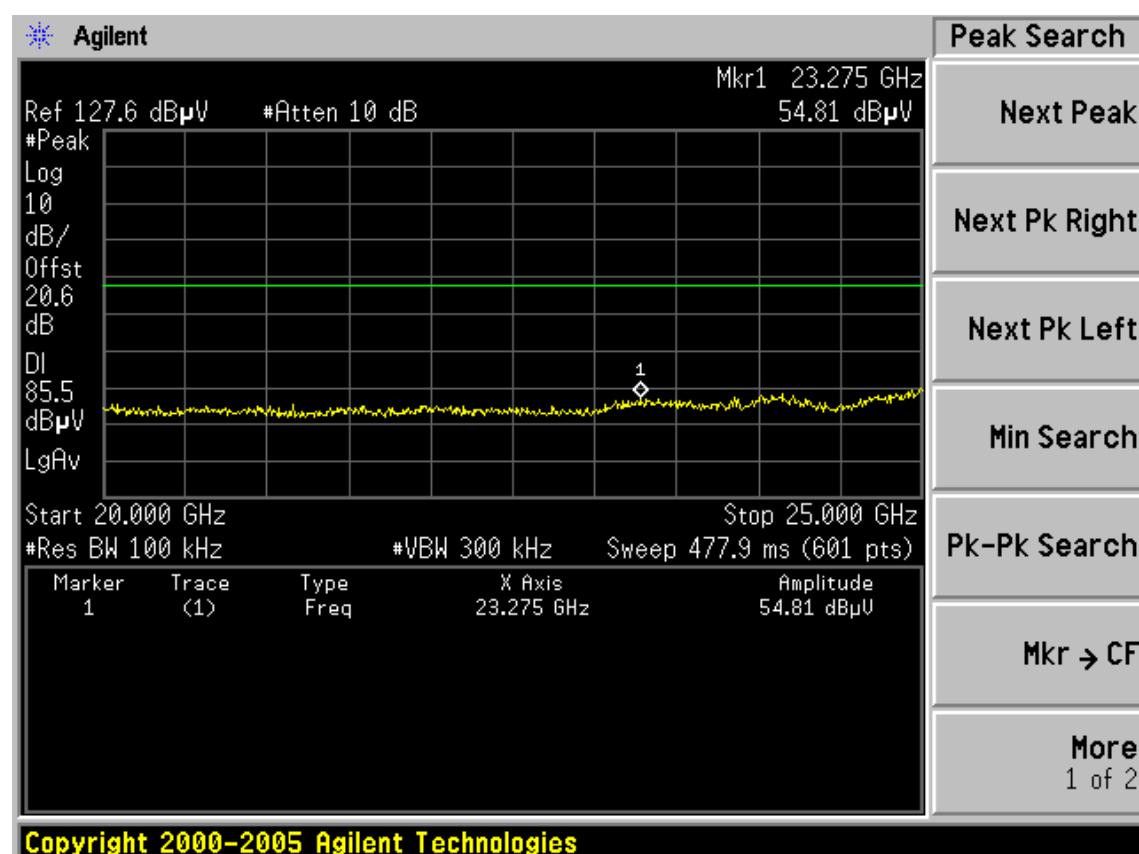
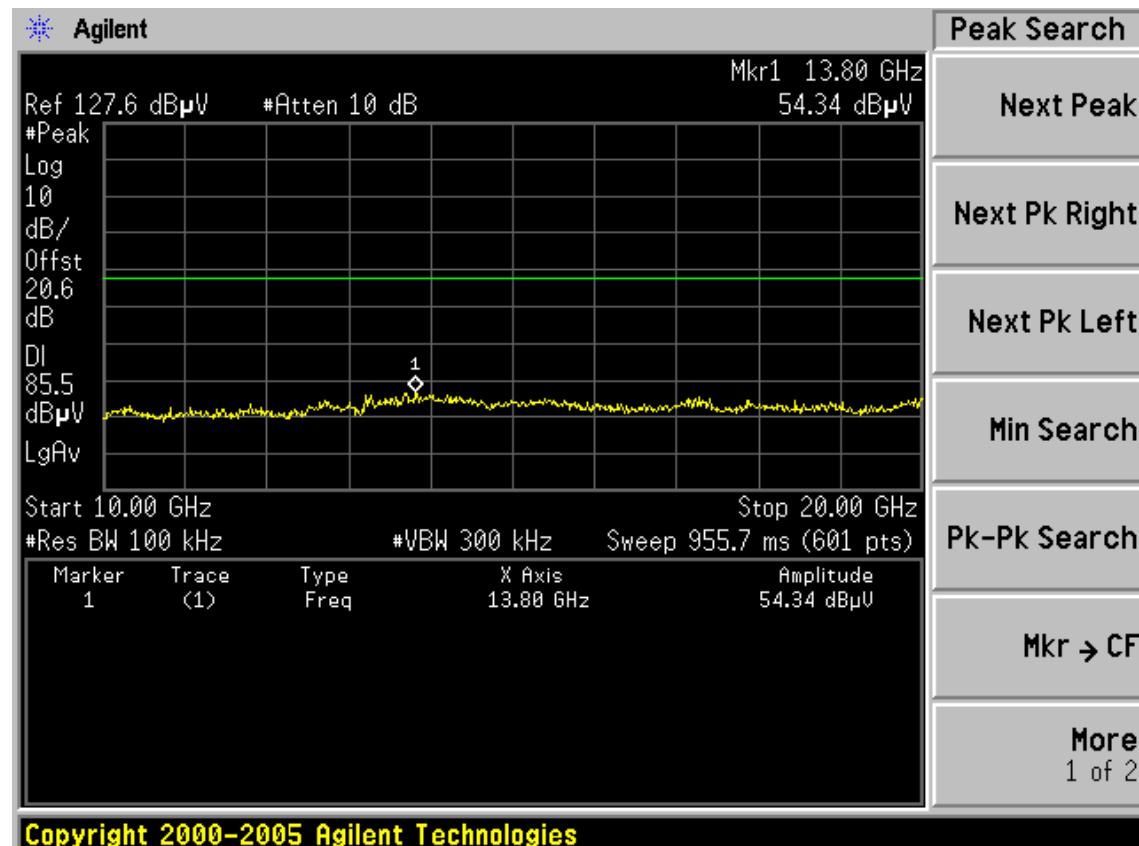
Pk-Pk Search

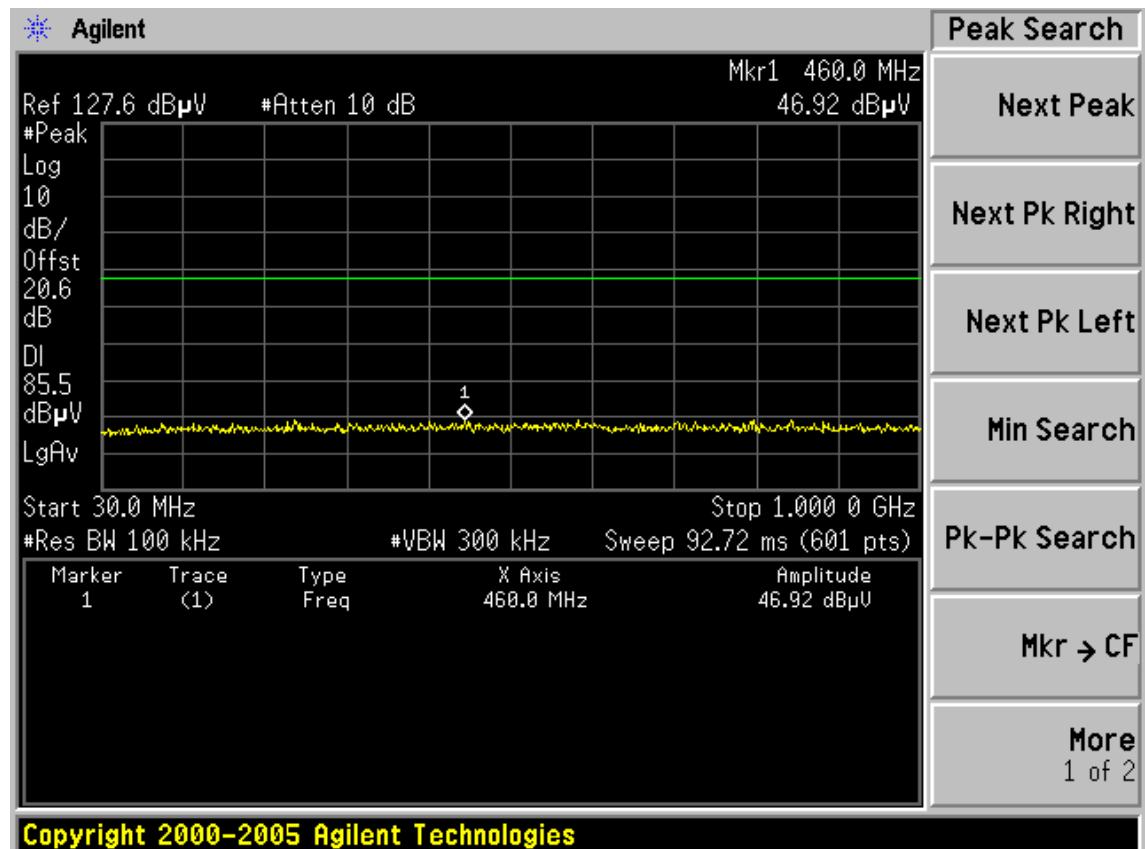
Mkr → CF

More
1 of 2

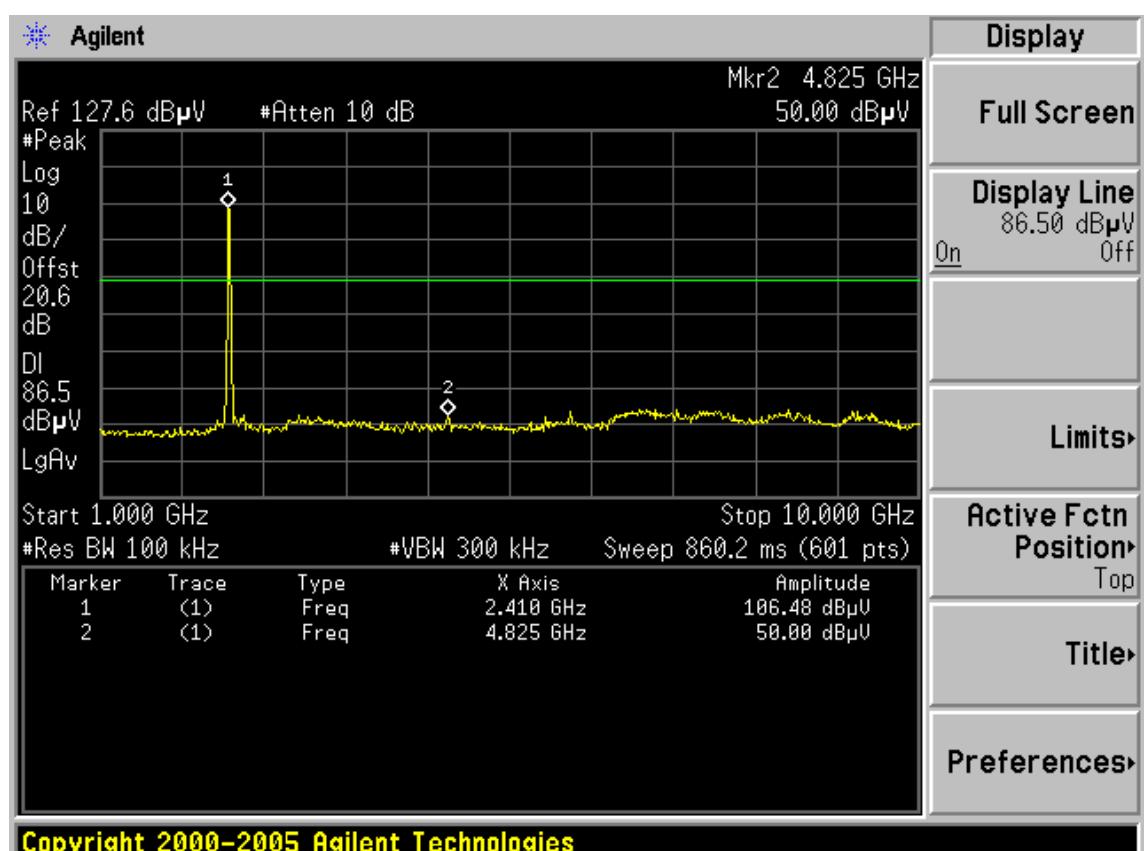
Copyright 2000-2005 Agilent Technologies

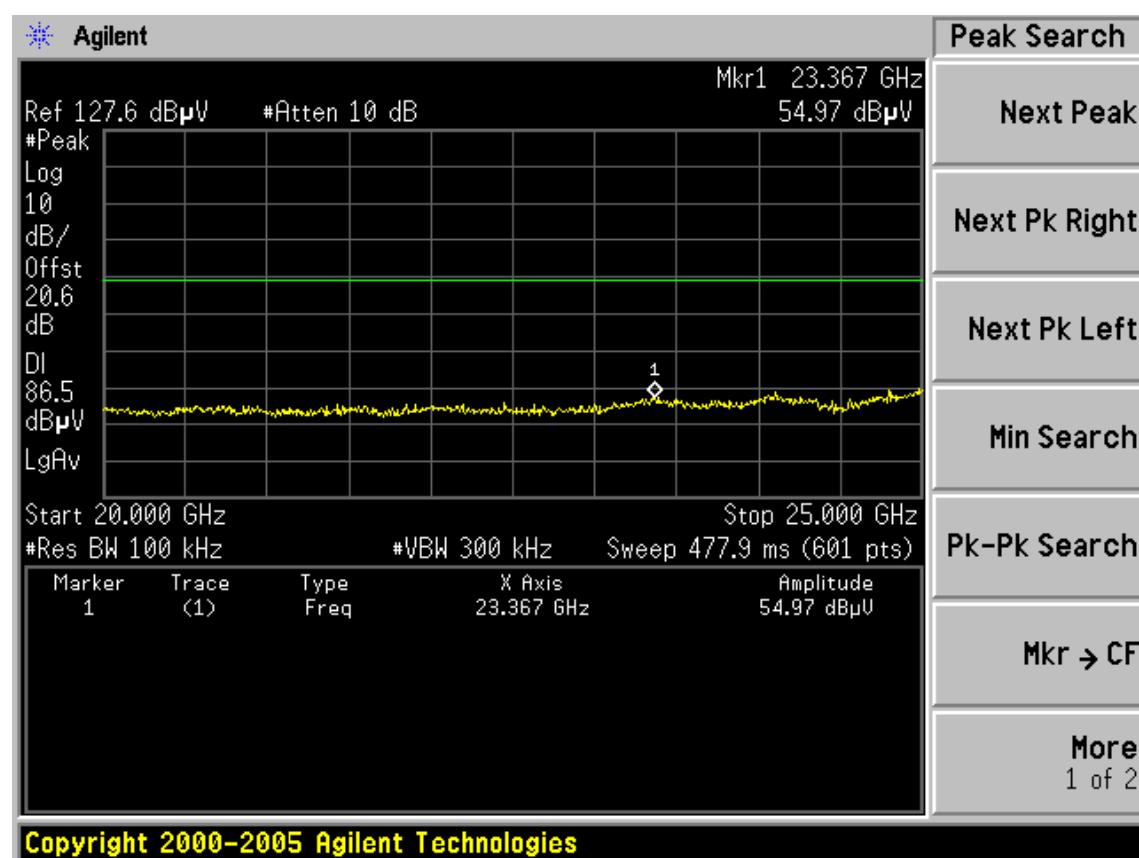
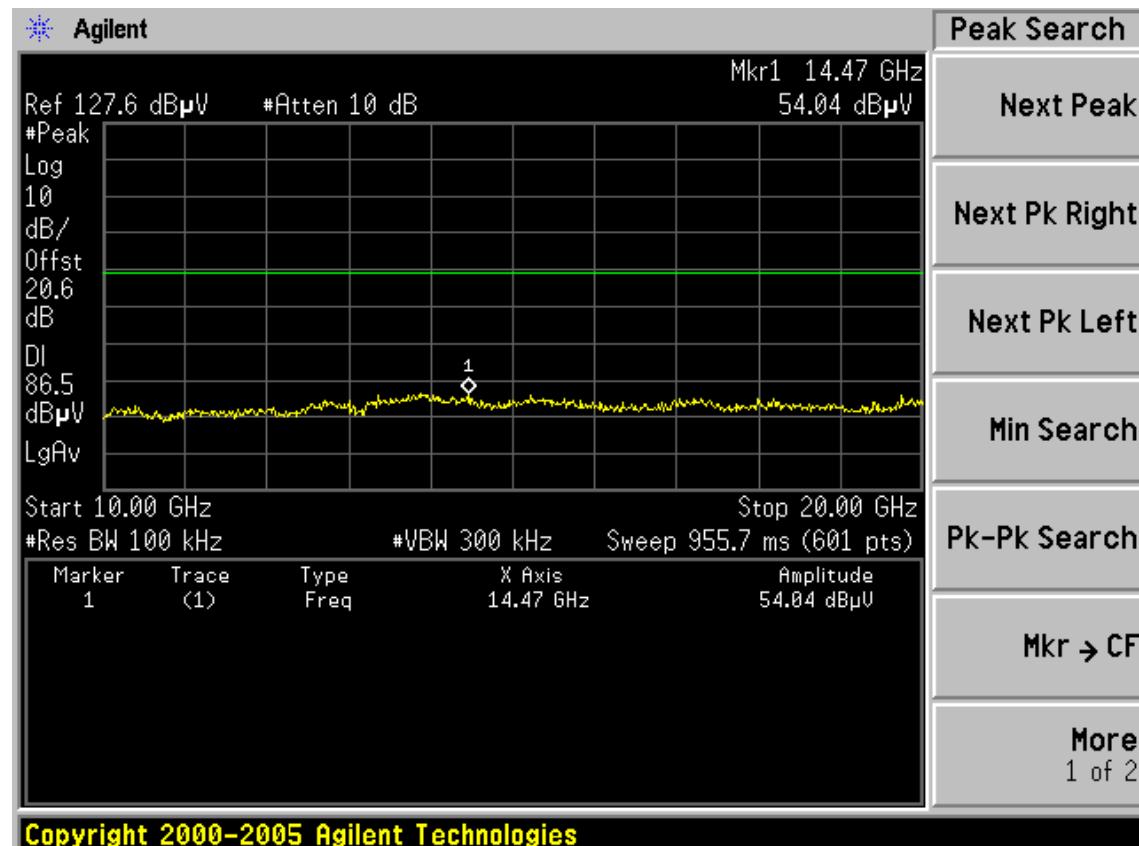


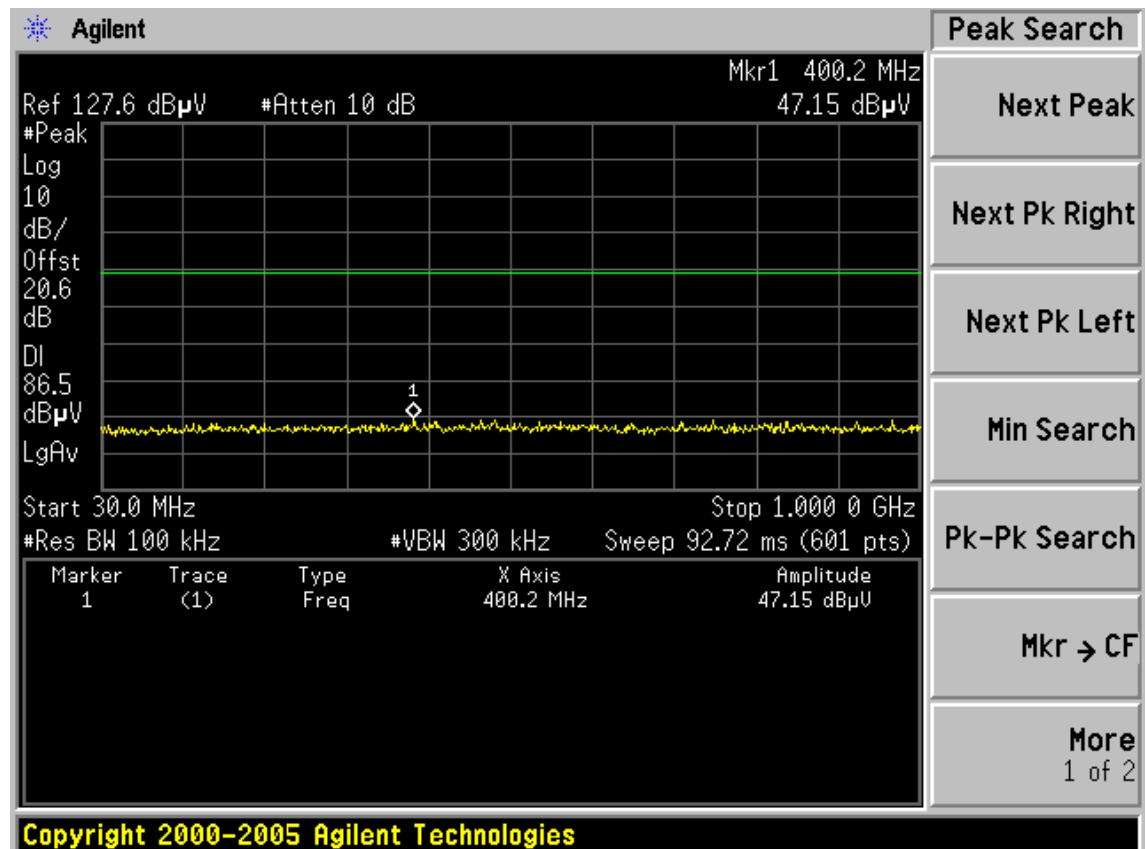




Test Mode: IEEE 802.11n HT20 TX
CH1

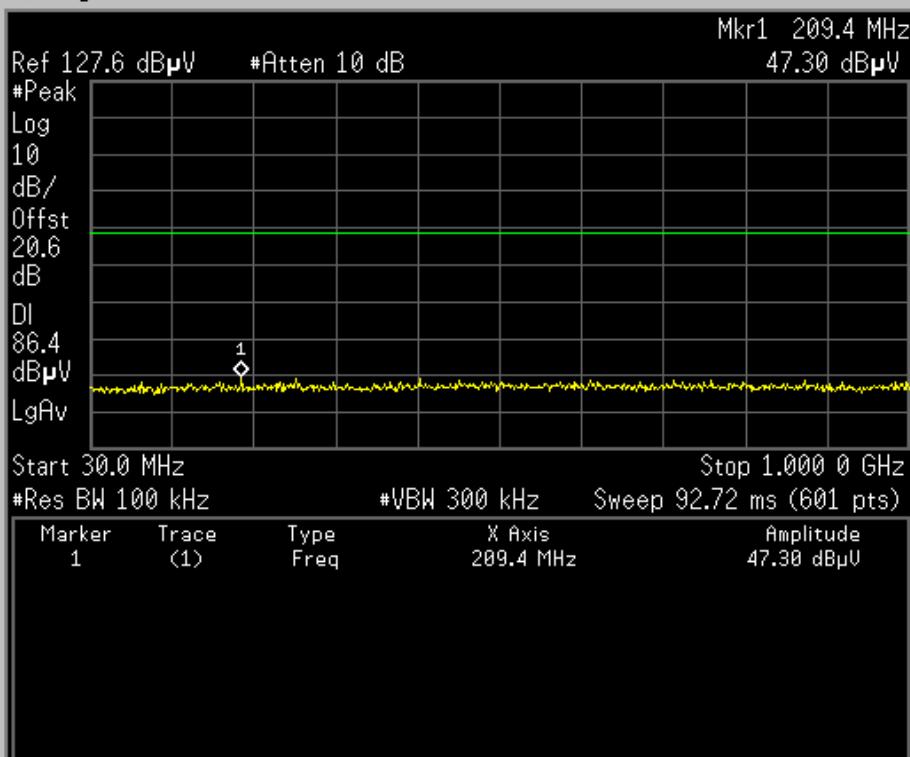






CH6

Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

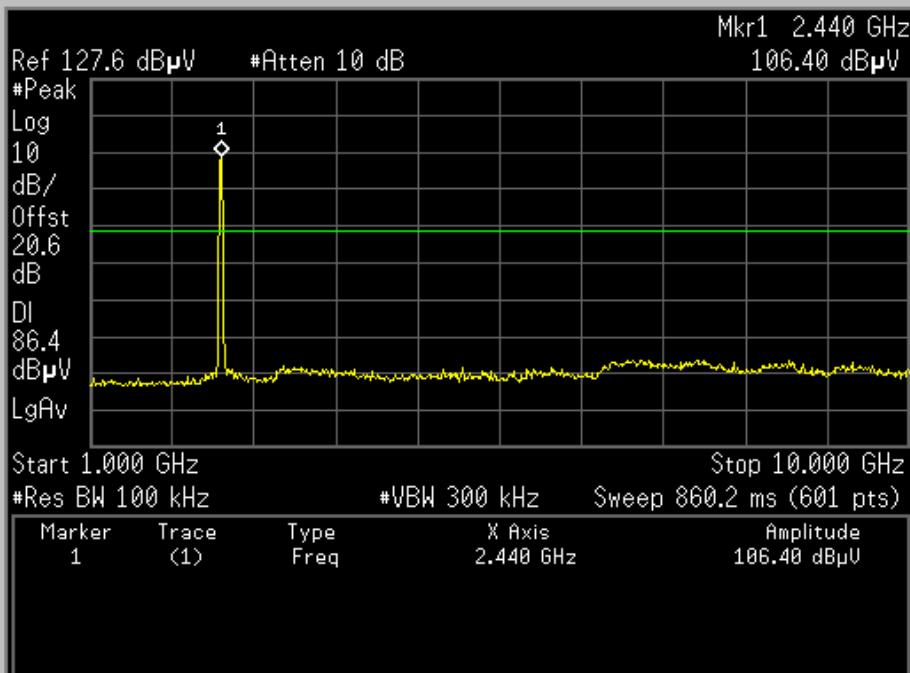
Pk-Pk Search

Mkr → CF

More
1 of 2

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Marker

Select Marker
1 2 3 4

Normal

Delta

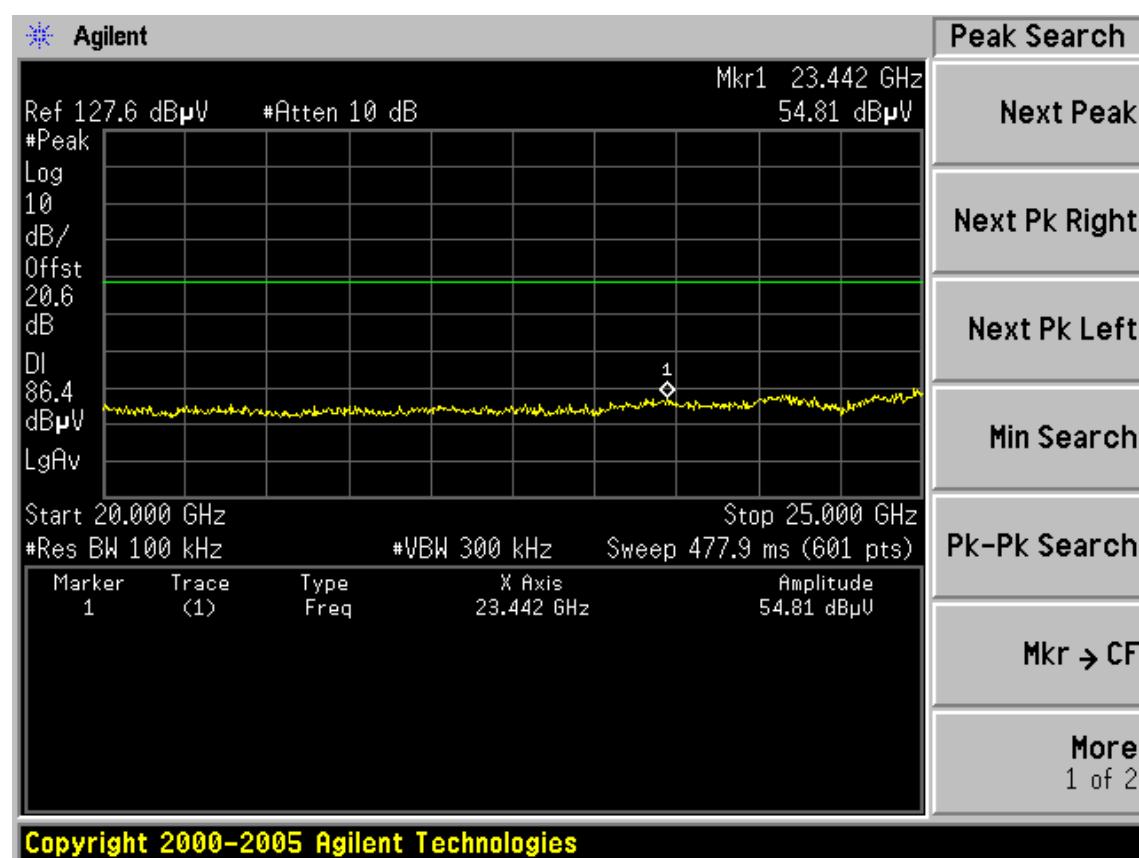
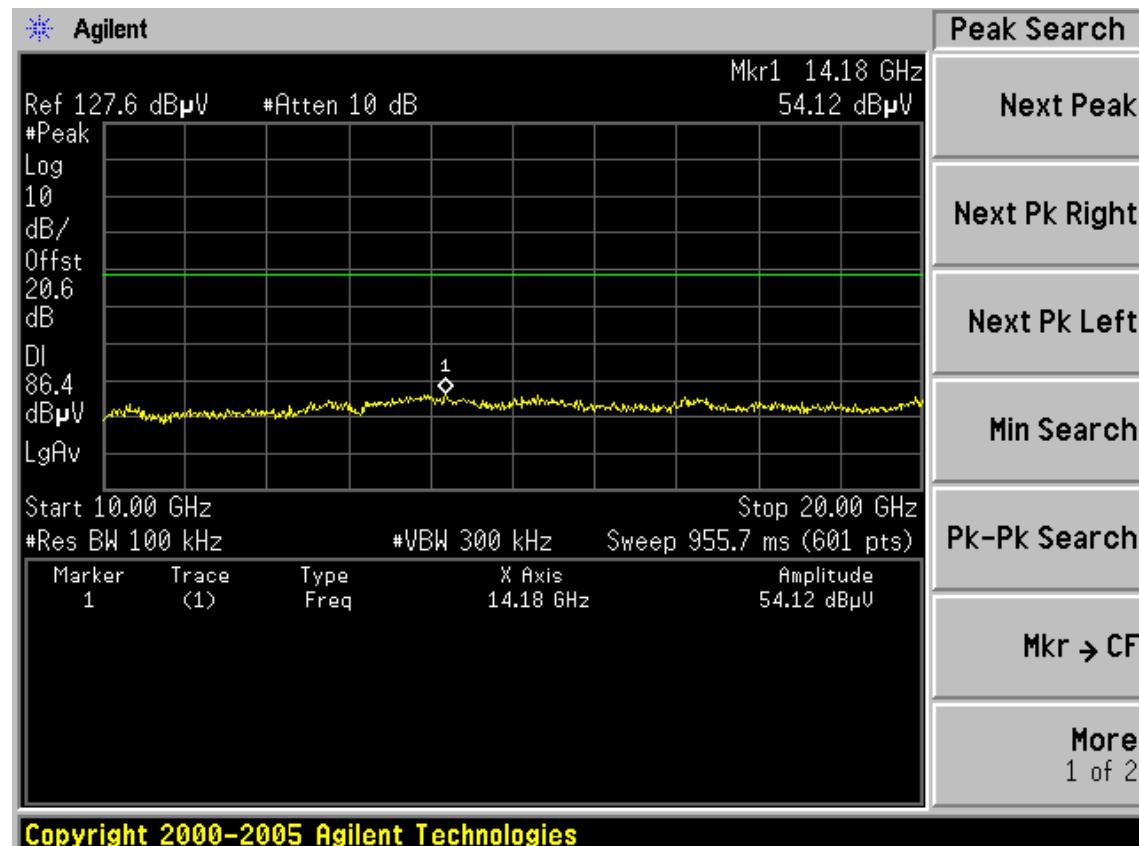
Delta Pair
(Tracking Ref)
Ref ▲Span Pair
Span Center

Off

More
1 of 2

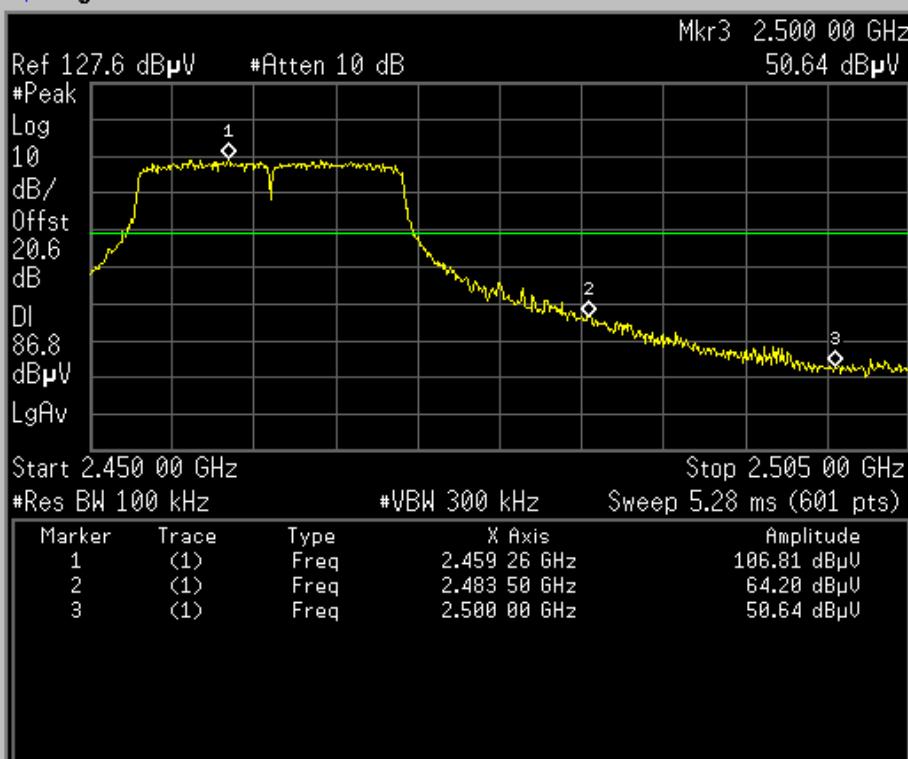
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CH11

Agilent



Marker

Select Marker

1 2 3 4

Normal

Delta

Delta Pair
(Tracking Ref)

Ref ▲

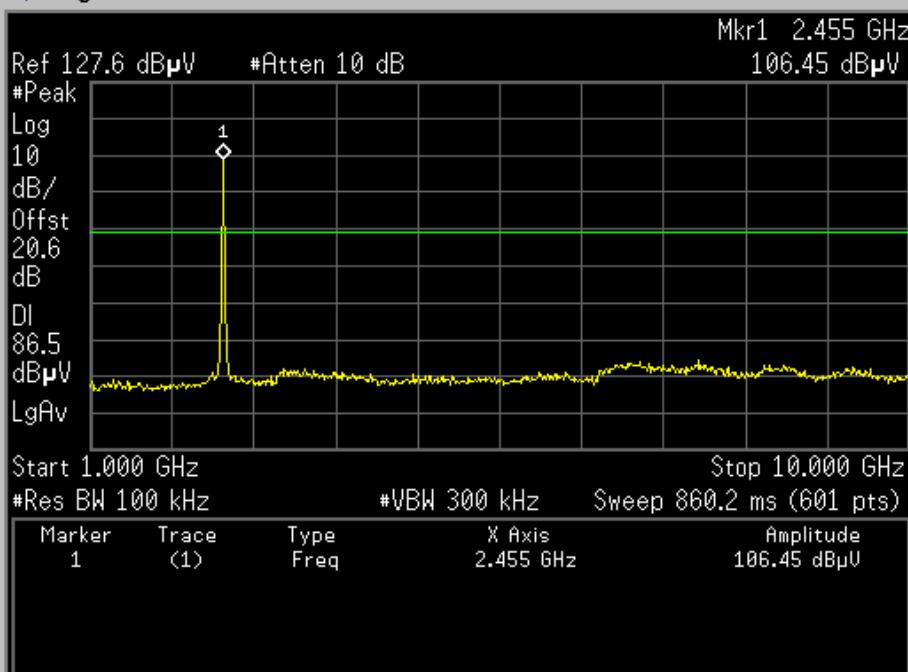
Span Pair
Span Center

Off

More
1 of 2

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Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

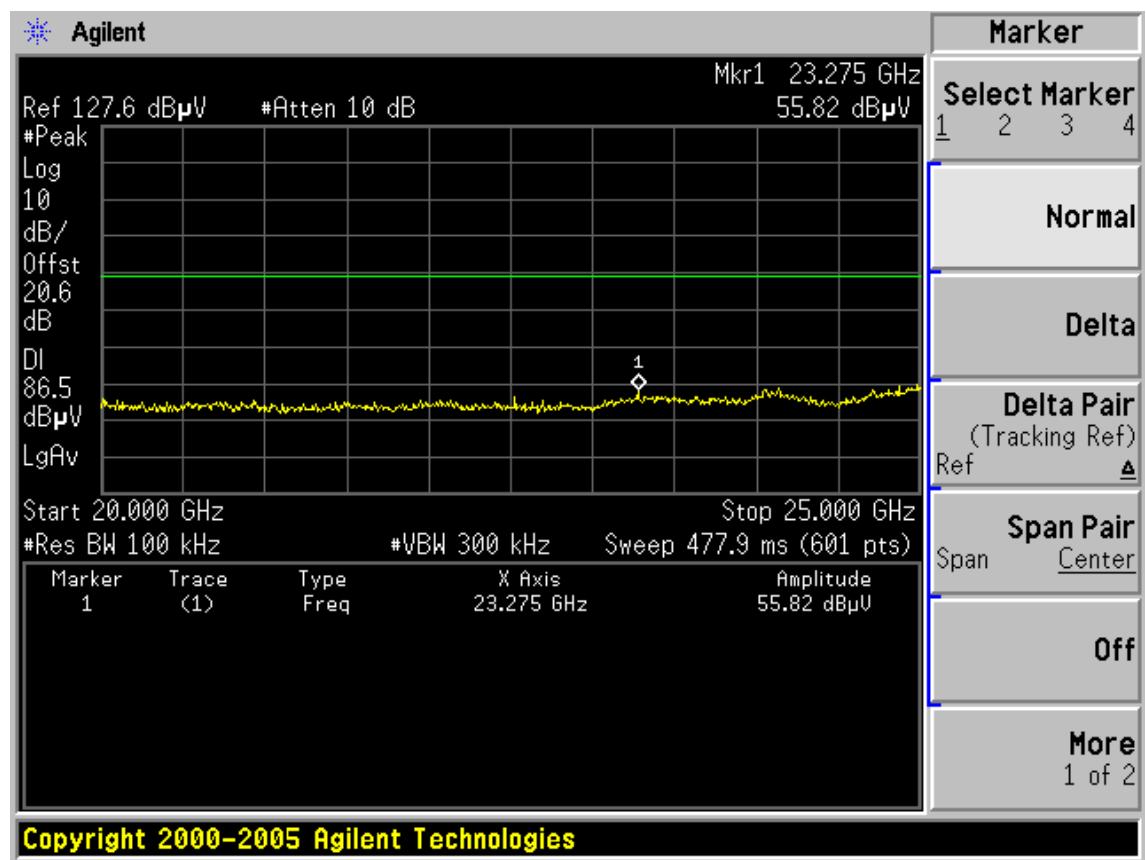
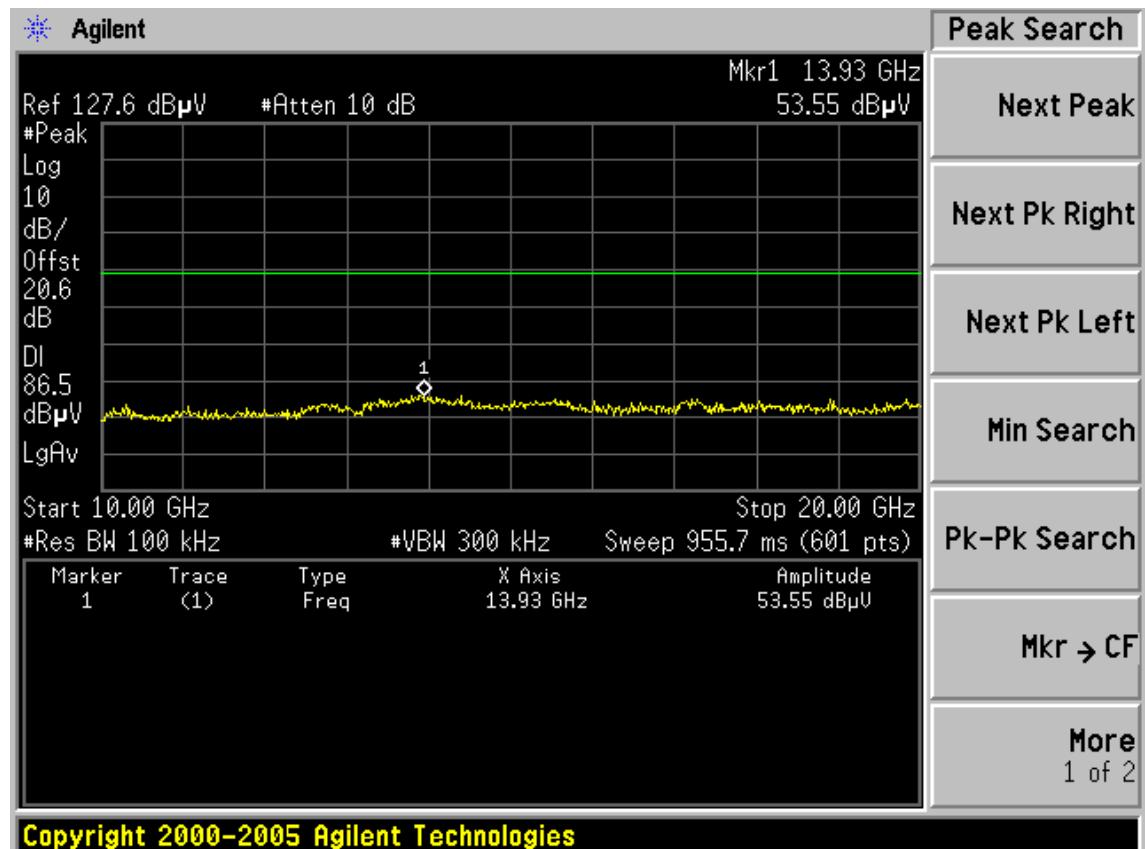
Pk-Pk Search

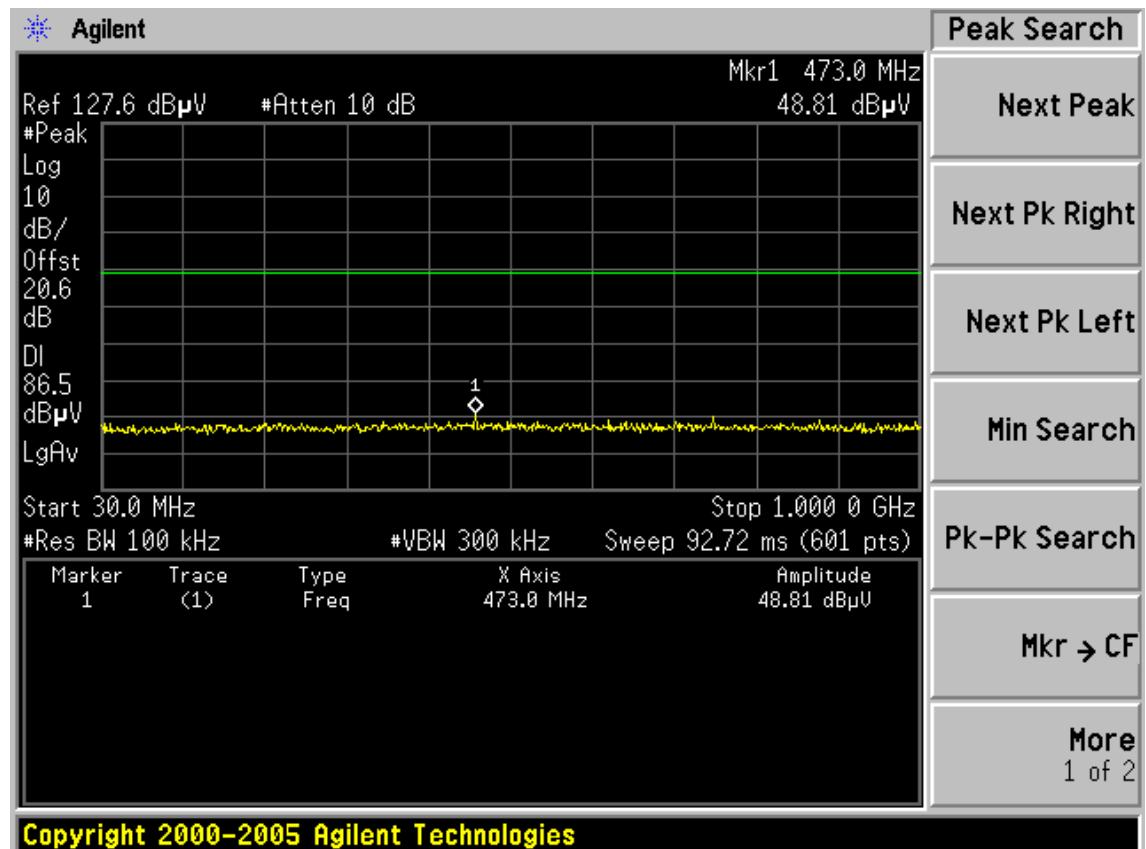
Mkr → CF

More
1 of 2

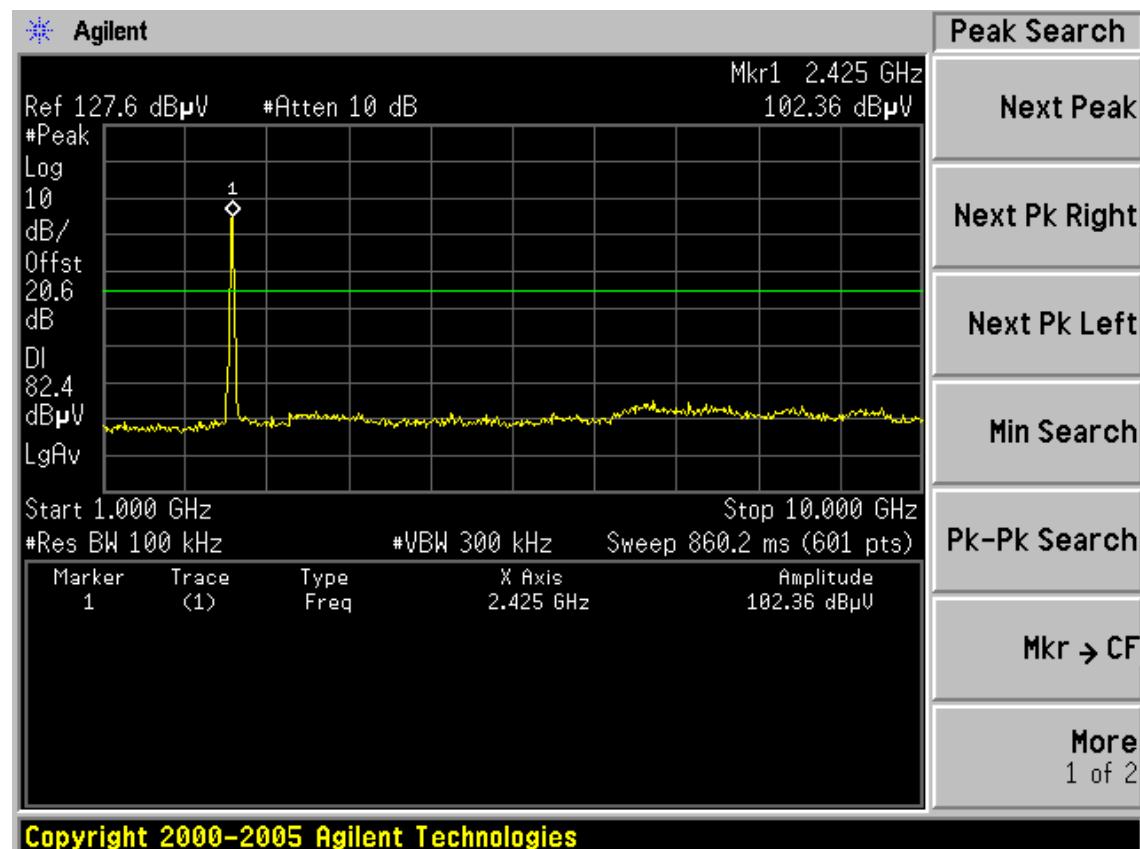
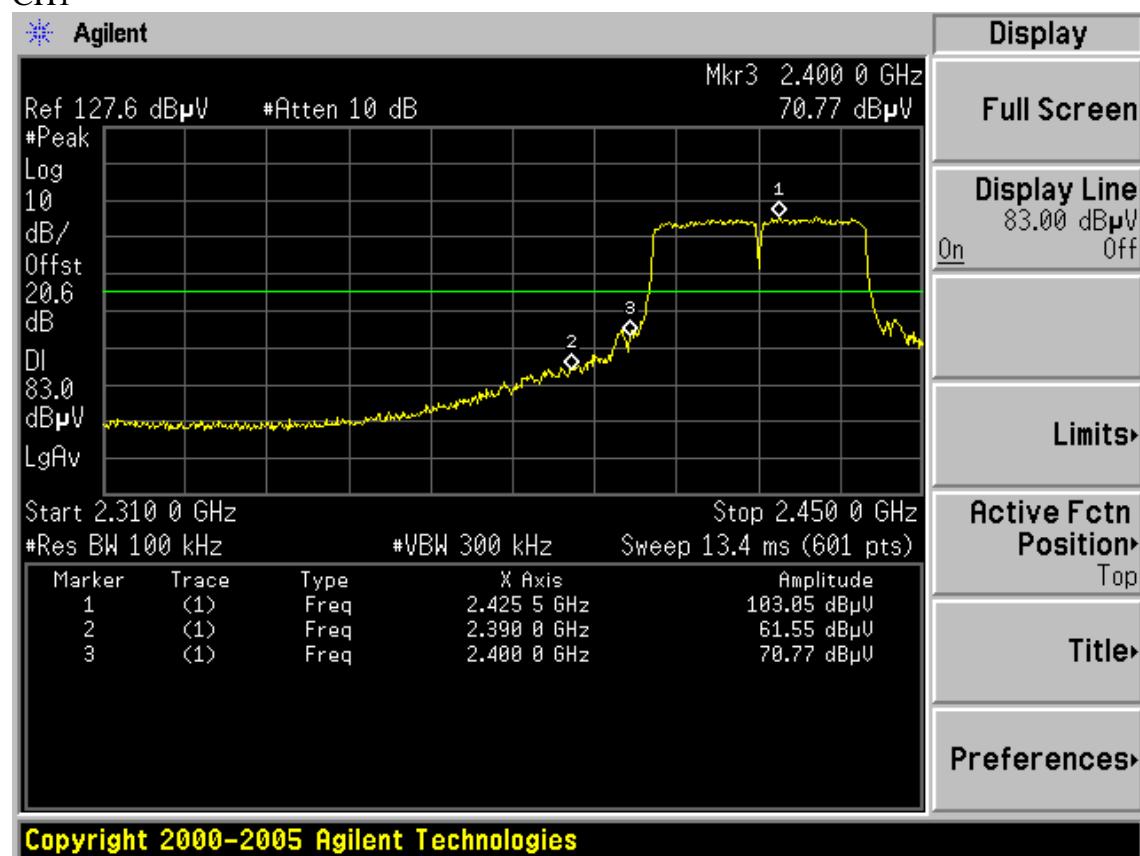
Copyright 2000-2005 Agilent Technologies

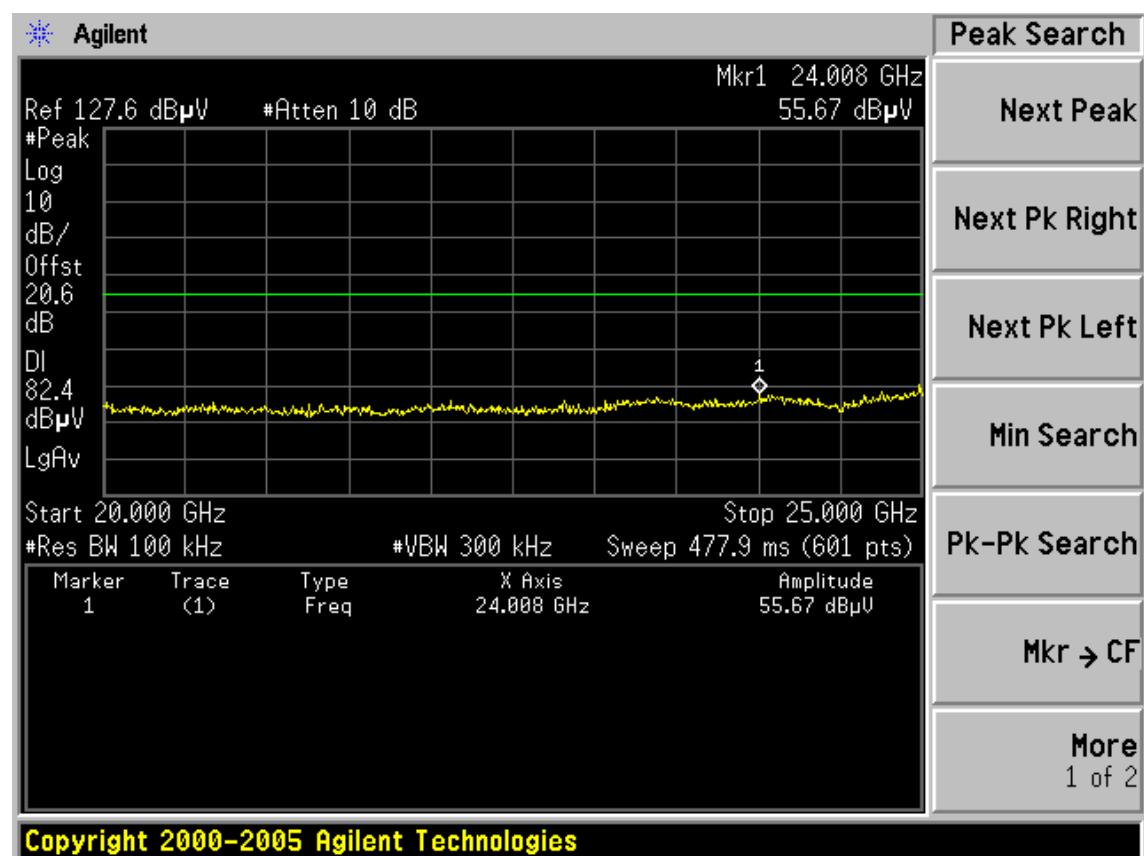
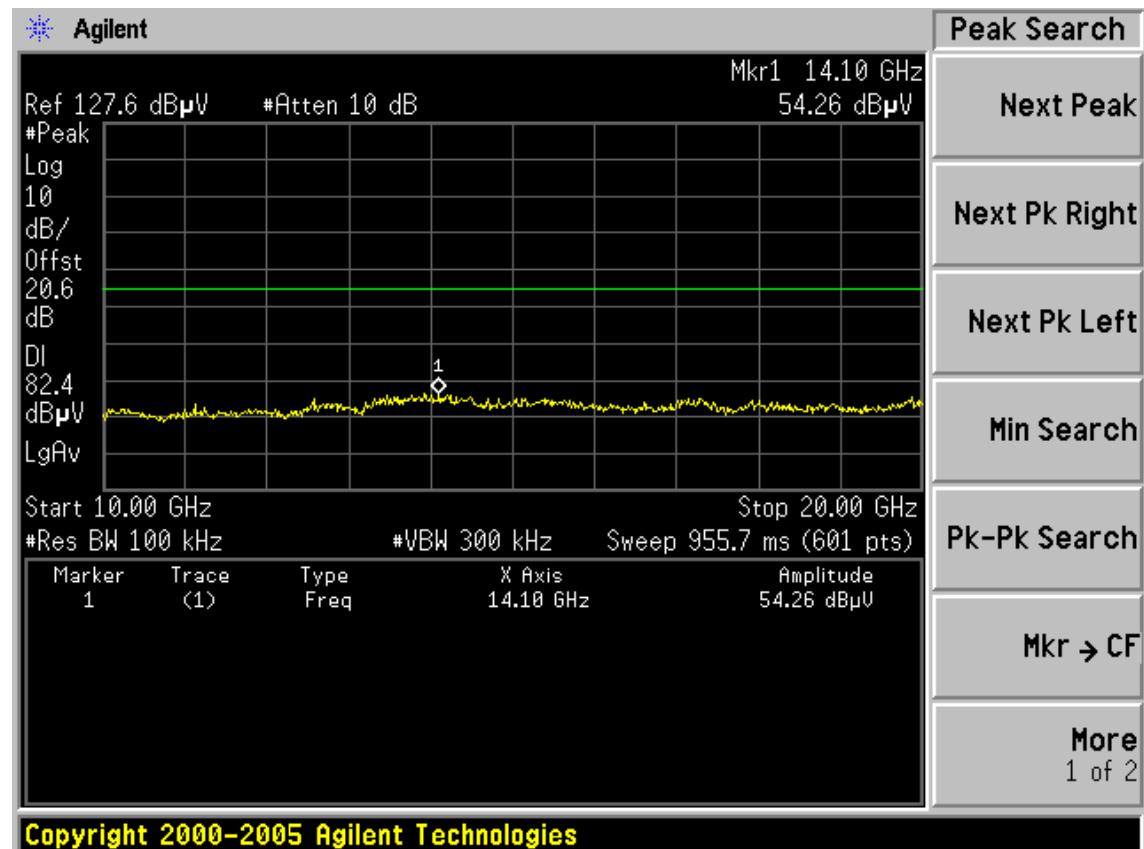


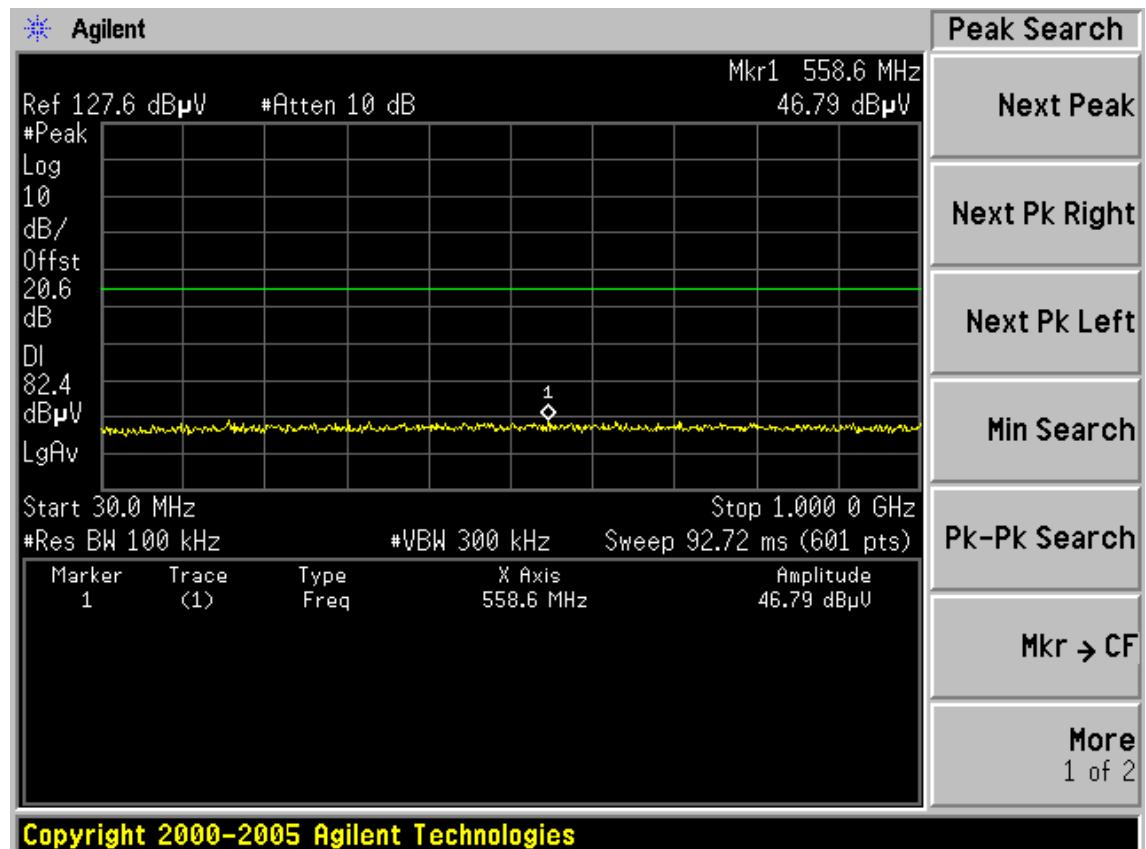




Test Mode: IEEE 802.11n HT40TX
CH1

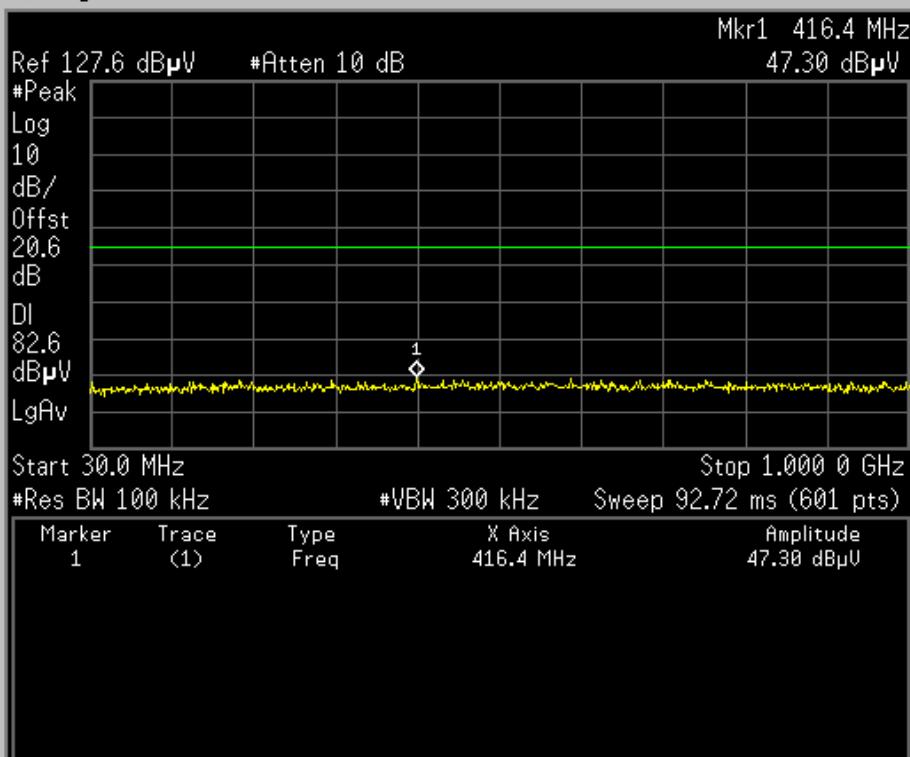






CH4

Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

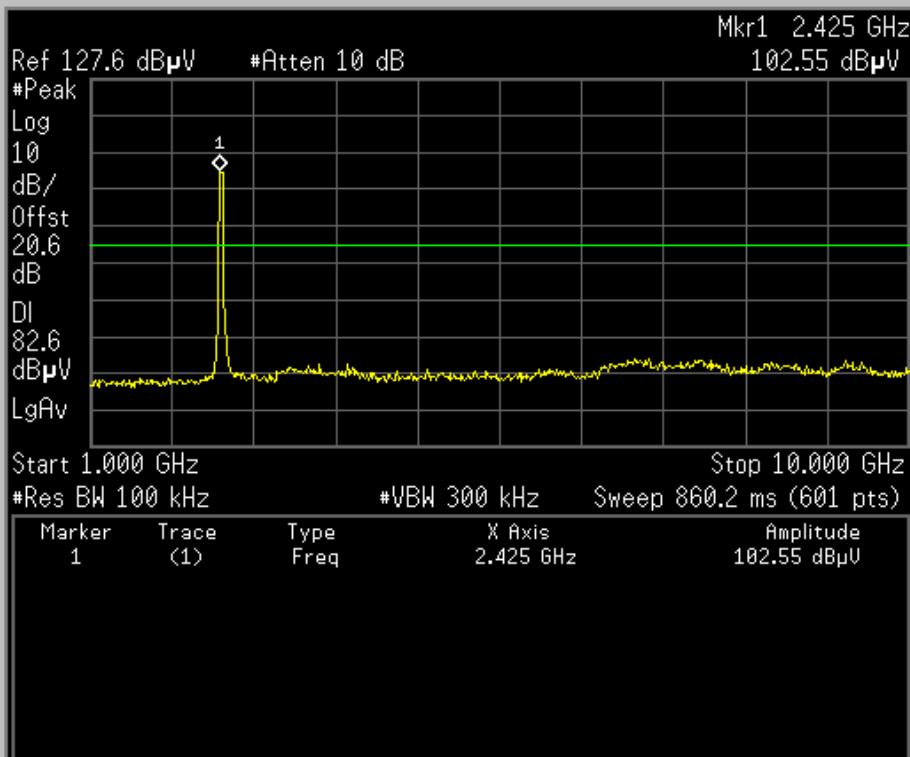
Pk-Pk Search

Mkr → CF

More
1 of 2

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Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

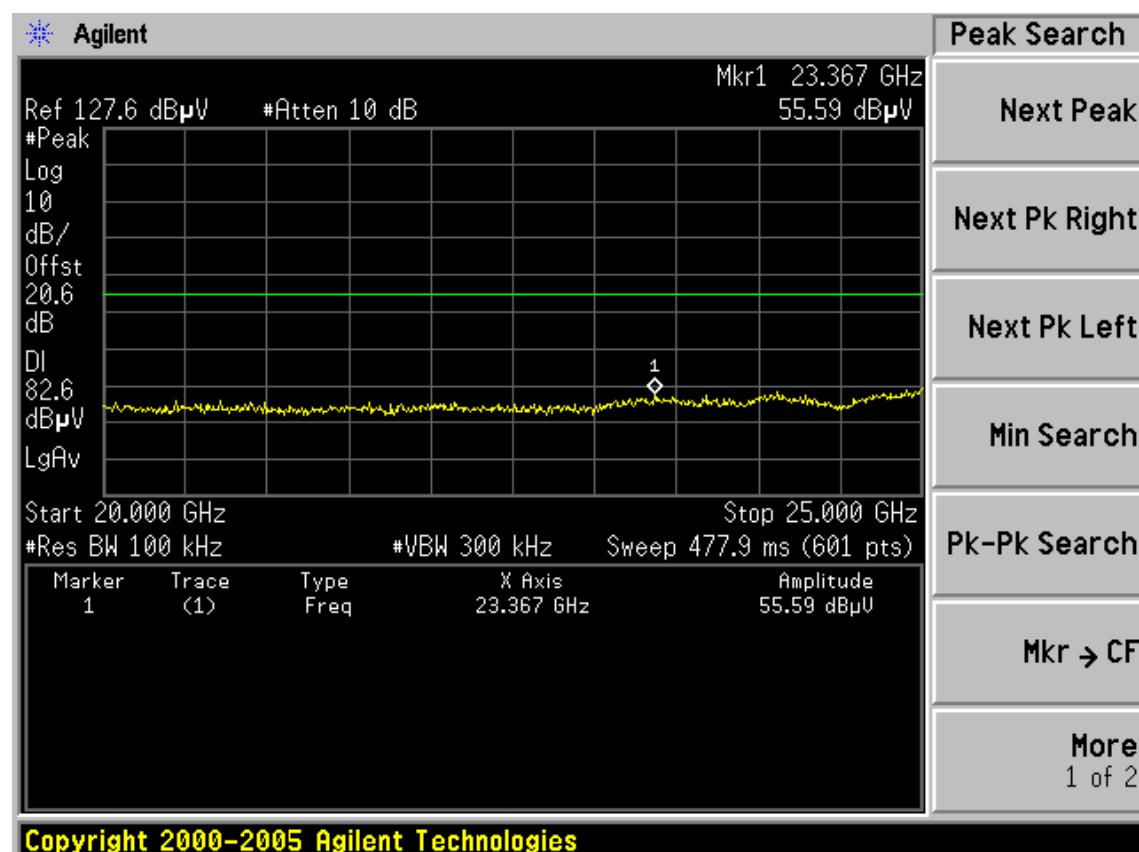
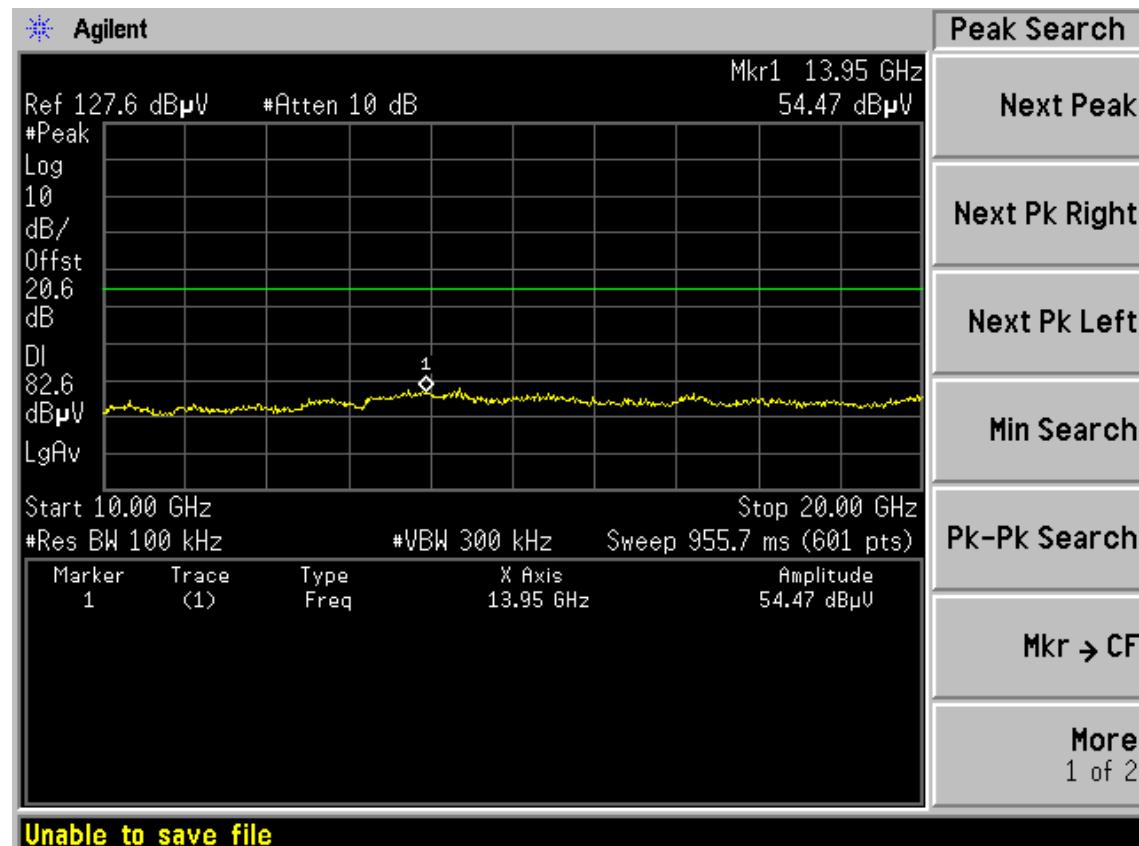
Pk-Pk Search

Mkr → CF

More
1 of 2

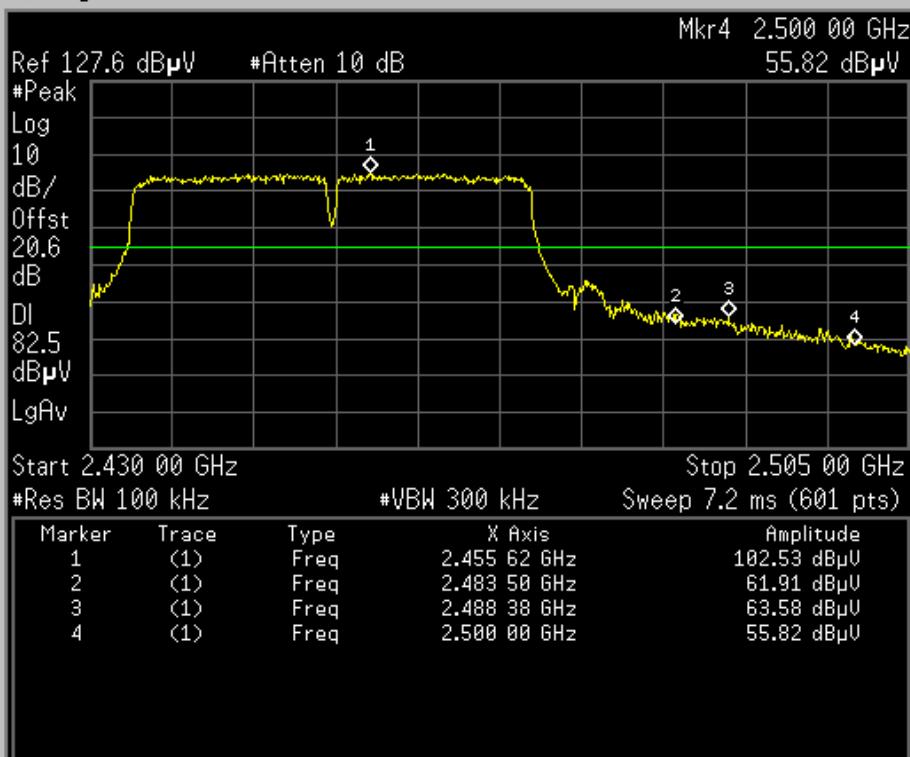
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CH7

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Marker

Select Marker

1 2 3 4

Normal

Delta

Delta Pair
(Tracking Ref)

Ref ▲

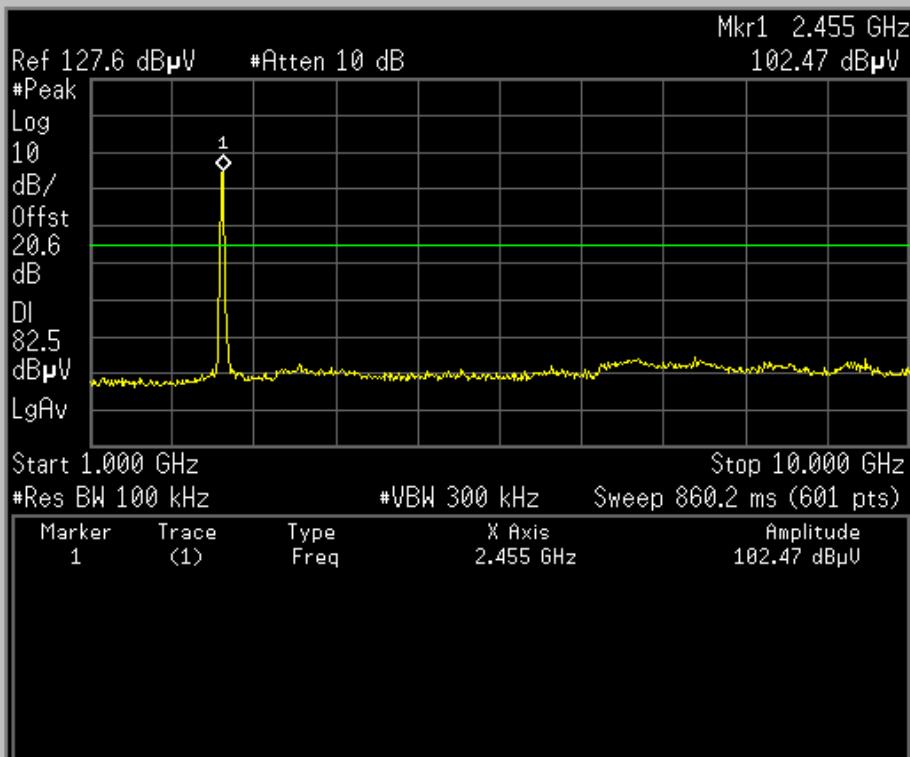
Span Pair
Span Center

Off

More
1 of 2

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Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

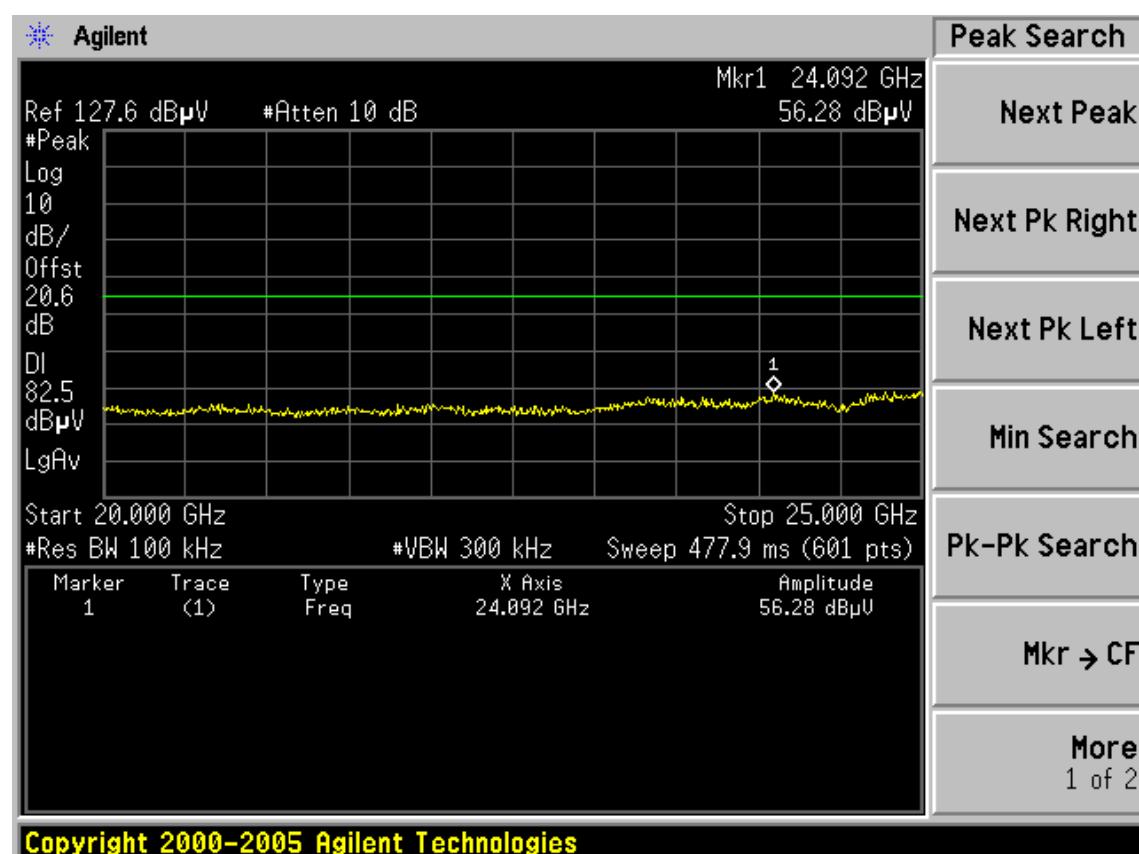
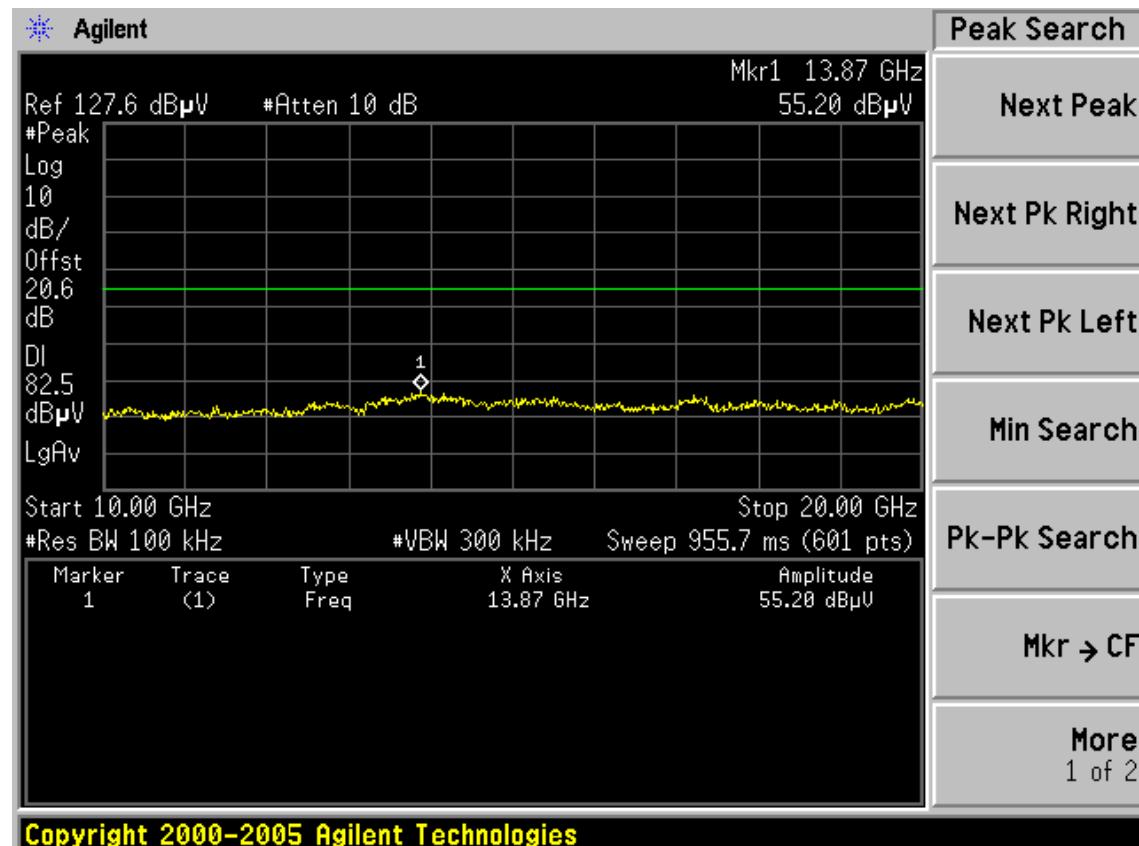
Pk-Pk Search

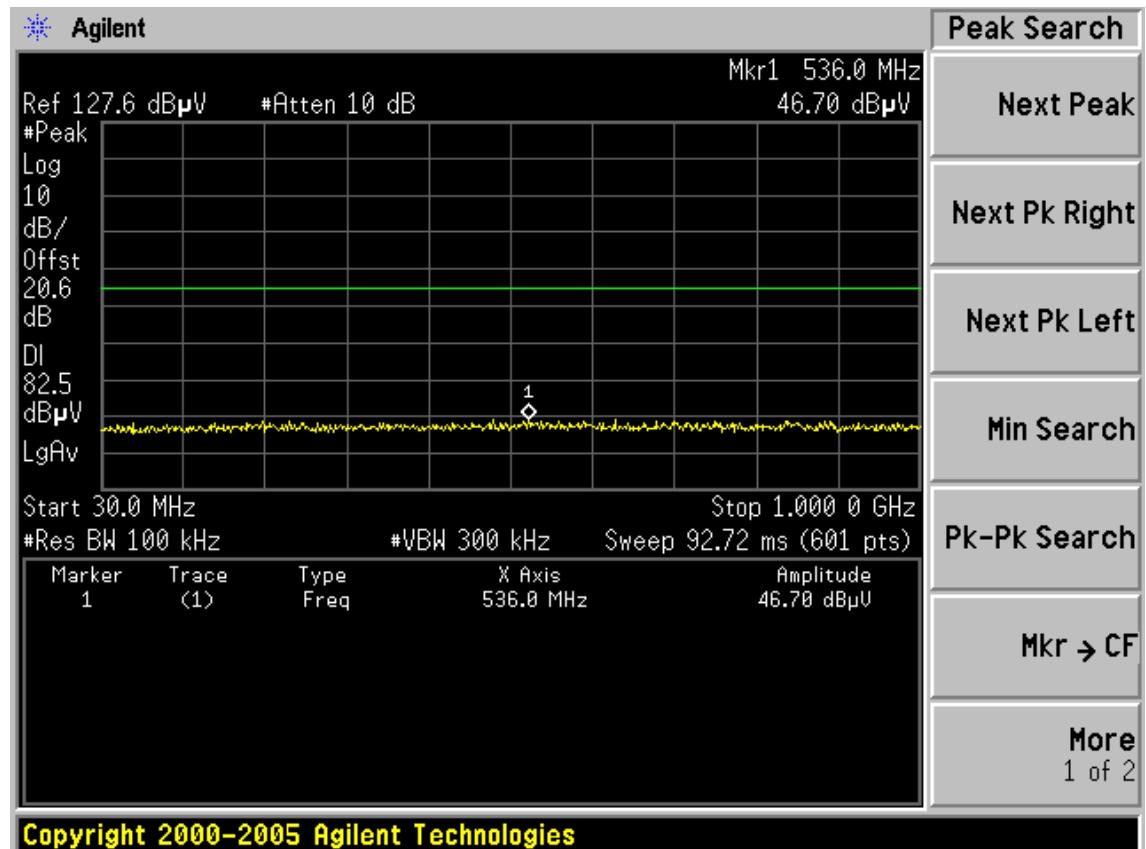
Mkr → CF

More
1 of 2

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6. BAND EDGE COMPLIANCE TEST

6.1. Limit

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

6.2. 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 upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.3. Test Result

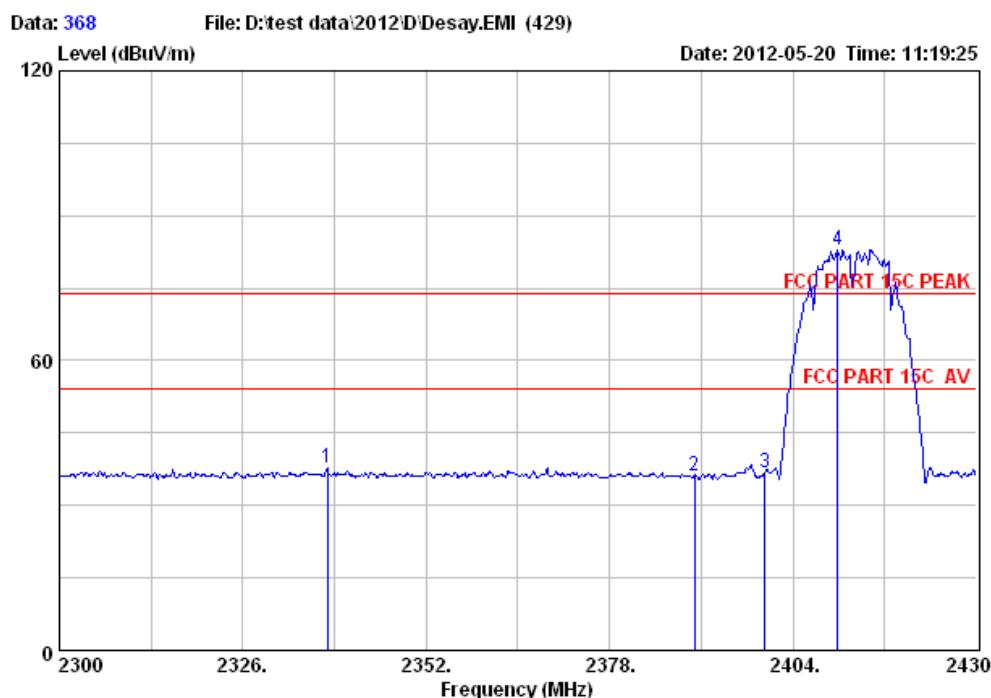
Pass (The testing data was attached in the next pages.)

6.4. Test Data

IEEE 802.11b

EST Technology

San Tun Management Zone, Houjie Town,
Dongguan City, Guangdong, China
Tel:+86-769-83081888
Fax:+86-769-83081878



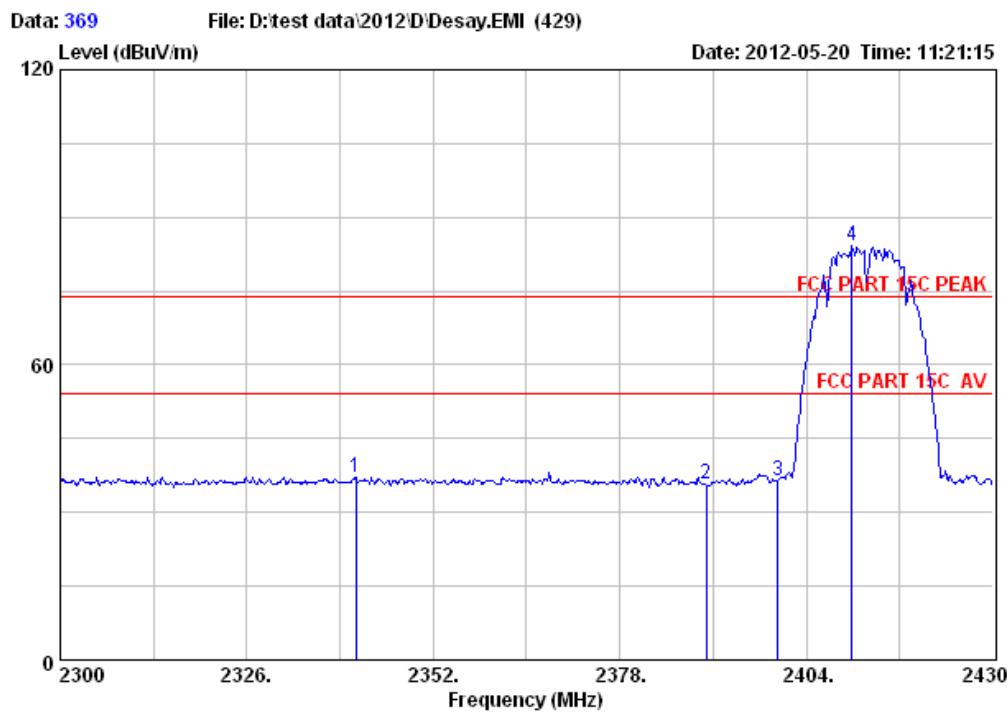
Site no. : 3m Chamber Data no. : 368
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2337.96	27.73	6.56	34.23	37.58	37.64	74.00	36.36	Peak
2 2390.00	27.64	6.62	34.19	35.91	35.98	74.00	38.02	Peak
3 2400.00	27.61	6.62	34.18	36.88	36.93	74.00	37.07	Peak
4 2410.37	27.60	6.64	34.15	82.84	82.93	74.00	-8.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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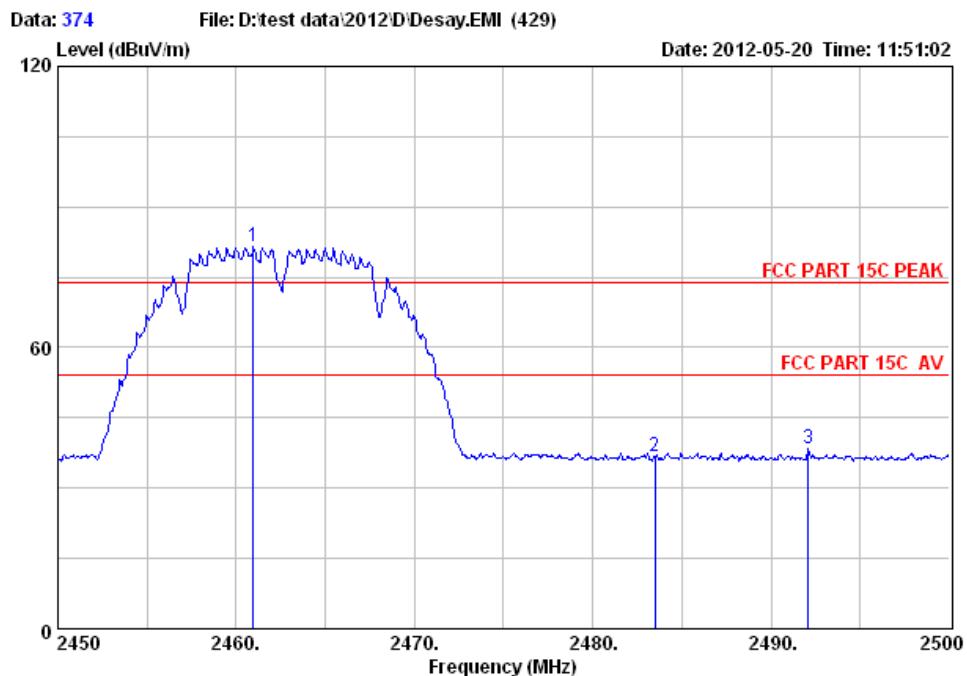
Site no. : 3m Chamber Data no. : 369
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2341.21	27.70	6.56	34.22	37.16	37.20	74.00	36.80	Peak
2 2390.00	27.64	6.62	34.19	35.55	35.62	74.00	38.38	Peak
3 2400.00	27.61	6.62	34.18	36.43	36.48	74.00	37.52	Peak
4 2410.37	27.60	6.64	34.15	84.08	84.17	74.00	-10.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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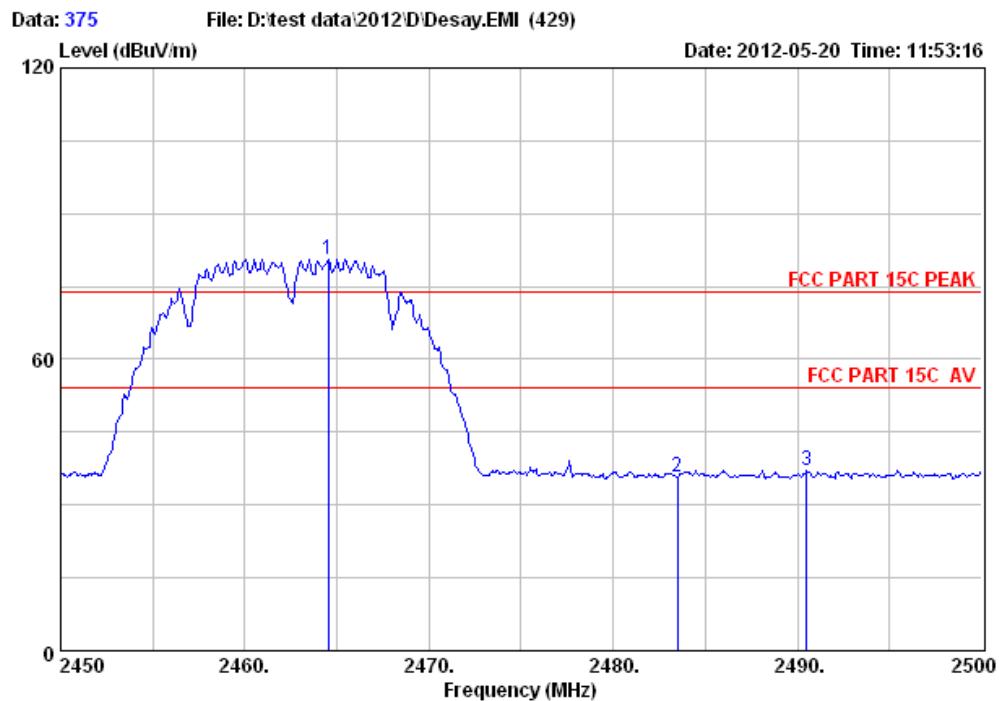
Site no. : 3m Chamber Data no. : 374
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
				(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.95	27.58	6.69	34.06	81.23	81.44	74.00	-7.44 Peak
2	2483.50	27.58	6.71	34.03	36.51	36.77	74.00	37.23 Peak
3	2492.10	27.58	6.73	34.03	38.02	38.30	74.00	35.70 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 375
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11b CH11 2462TX

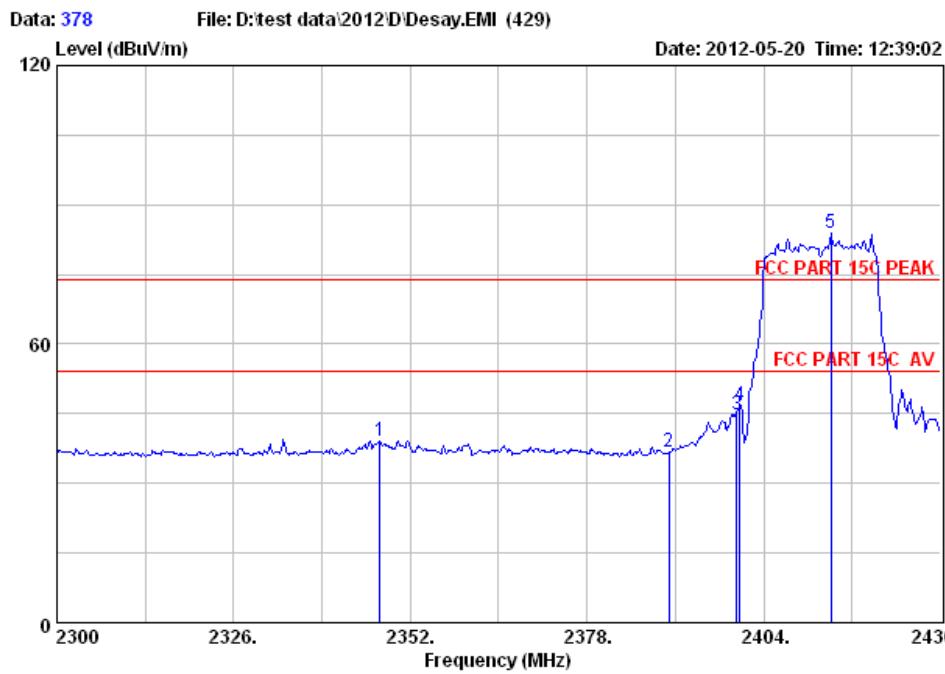
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2464.54	27.58	6.69	34.06	80.45	80.66	74.00	-6.66	Peak
2 2483.50	27.58	6.71	34.03	35.67	35.93	74.00	38.07	Peak
3 2490.52	27.58	6.73	34.03	36.83	37.11	74.00	36.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

IEEE 802.11g

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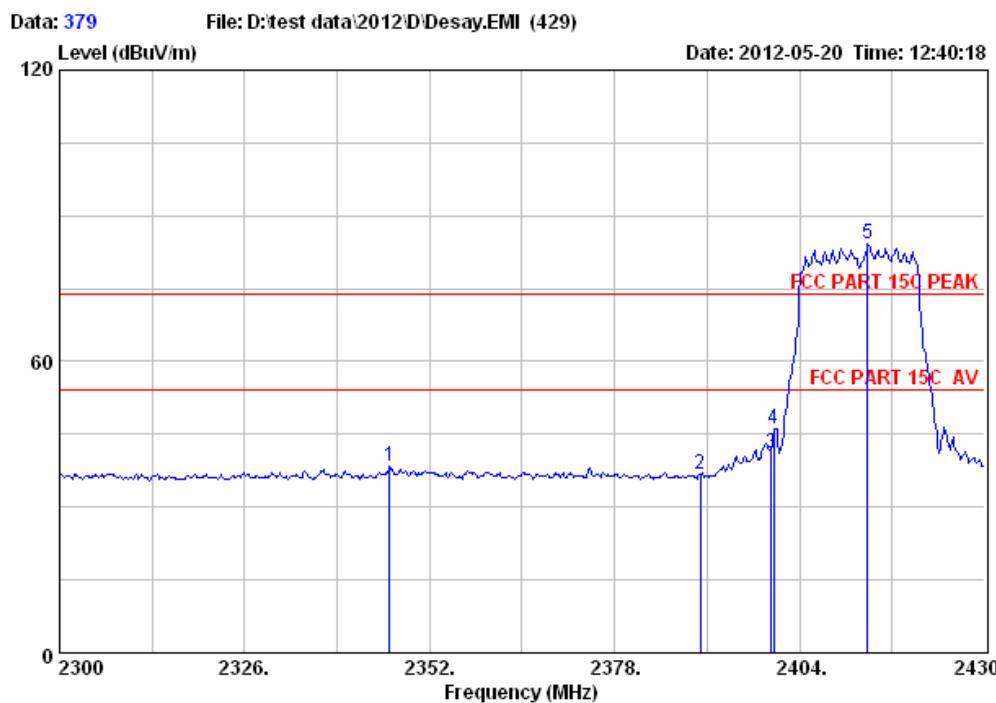
Site no. : 3m Chamber Data no. : 378
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2347.55	27.70	6.56	34.22	39.19	39.23	74.00	34.77	Peak
2 2390.00	27.64	6.62	34.19	36.54	36.61	74.00	37.39	Peak
3 2400.00	27.61	6.62	34.18	44.86	44.91	74.00	29.09	Peak
4 2400.50	27.61	6.62	34.18	46.91	46.96	74.00	27.04	Peak
5 2413.85	27.60	6.64	34.15	83.75	83.84	74.00	-9.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 379
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2346.35	27.70	6.56	34.22	38.33	38.37	74.00	35.63	Peak
2 2390.00	27.64	6.62	34.19	36.66	36.73	74.00	37.27	Peak
3 2400.00	27.61	6.62	34.18	40.95	41.00	74.00	33.00	Peak
4 2400.35	27.61	6.62	34.18	45.96	46.01	74.00	27.99	Peak
5 2413.55	27.60	6.64	34.15	84.30	84.39	74.00	-10.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

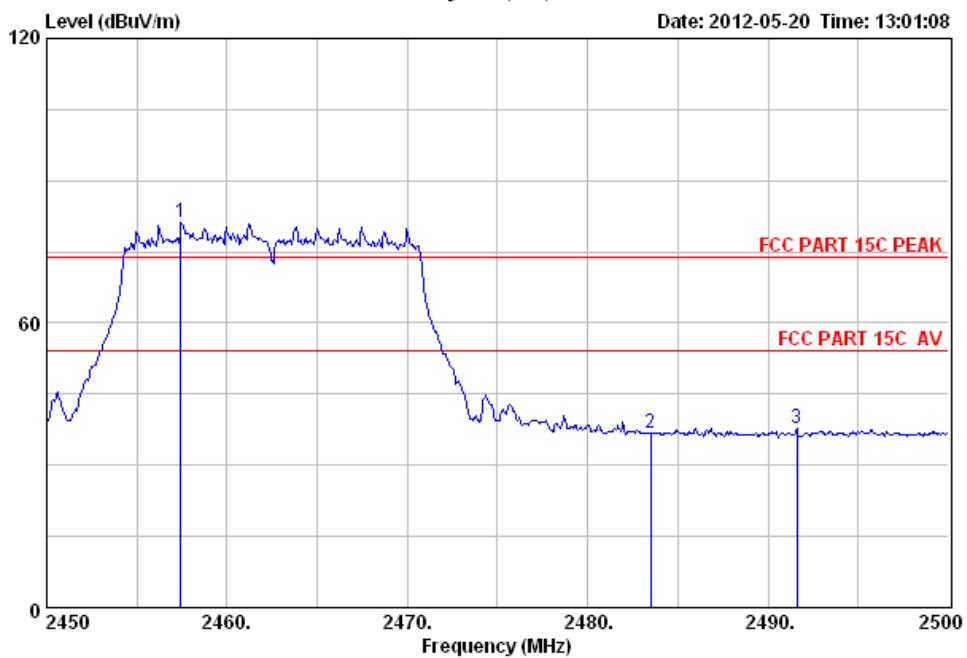
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Data: 384

File: D:\test data\2012\1\Desay.EMI (429)

Date: 2012-05-20 Time: 13:01:08



Site no. : 3m Chamber Data no. : 384
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2457.45	27.59	6.69	34.09	80.90	81.09	74.00	-7.09	Peak
2 2483.50	27.58	6.71	34.03	36.47	36.73	74.00	37.27	Peak
3 2491.60	27.58	6.73	34.03	37.36	37.64	74.00	36.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

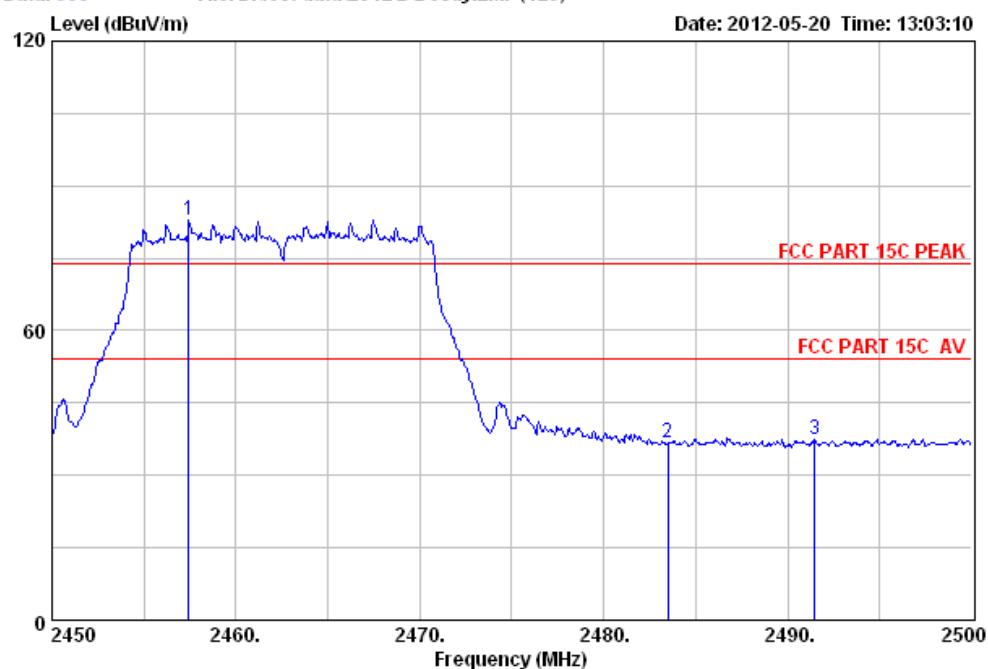
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Data: 385

File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 13:03:10



Site no. : 3m Chamber Data no. : 385
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11g CH11 2462TX

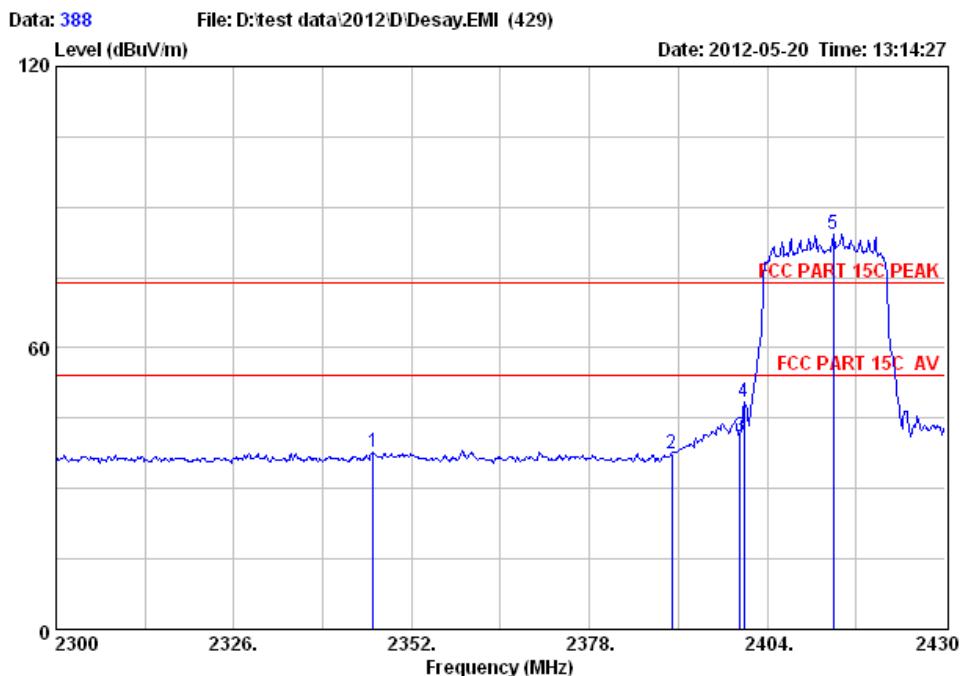
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2457.45	27.59	6.69	34.09	82.62	82.81	74.00	-8.81	Peak
2 2483.50	27.58	6.71	34.03	36.34	36.60	74.00	37.40	Peak
3 2491.45	27.58	6.73	34.03	37.31	37.59	74.00	36.41	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

IEEE 802.11n HT20

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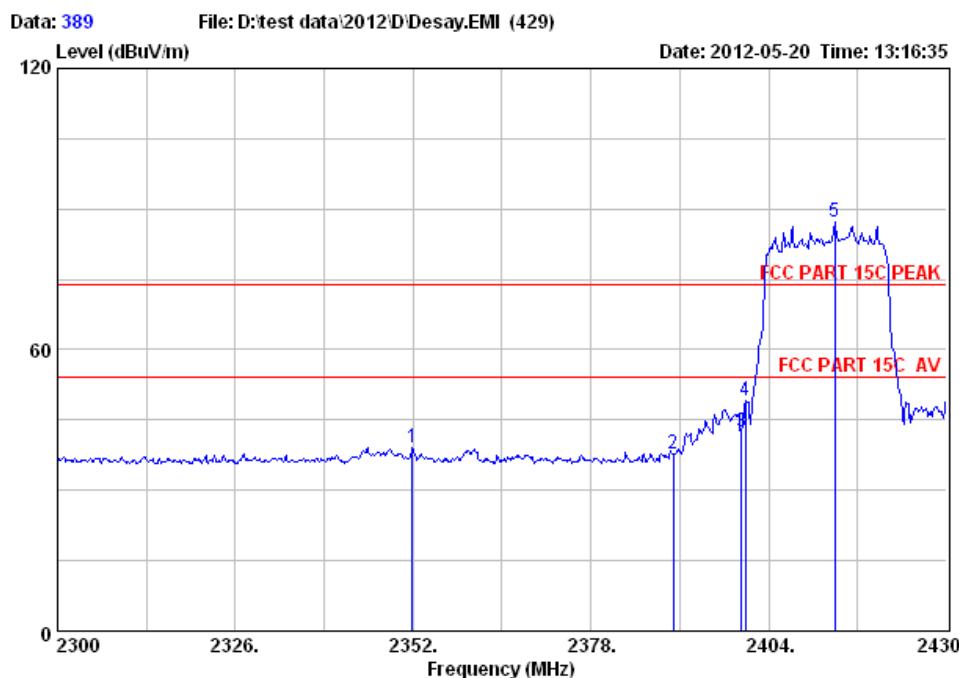
Site no. : 3m Chamber Data no. : 388
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2346.41	27.70	6.56	34.22	37.60	37.64	74.00	36.36	Peak
2 2390.00	27.64	6.62	34.19	37.35	37.42	74.00	36.58	Peak
3 2400.00	27.61	6.62	34.18	41.05	41.10	74.00	32.90	Peak
4 2400.62	27.61	6.62	34.18	48.44	48.49	74.00	25.51	Peak
5 2413.62	27.60	6.64	34.15	84.09	84.18	74.00	-10.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 389
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2351.87	27.70	6.58	34.22	39.03	39.09	74.00	34.91	Peak
2 2390.00	27.64	6.62	34.19	37.65	37.72	74.00	36.28	Peak
3 2400.00	27.61	6.62	34.18	42.34	42.39	74.00	31.61	Peak
4 2400.62	27.61	6.62	34.18	49.05	49.10	74.00	24.90	Peak
5 2413.62	27.60	6.64	34.15	87.07	87.16	74.00	-13.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

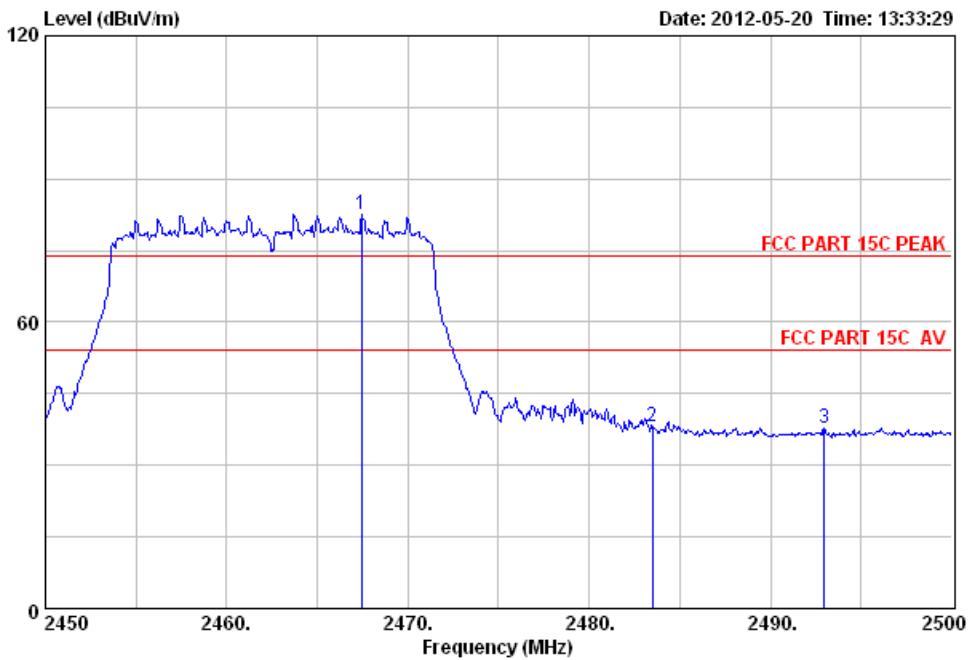
EST Technology

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Data: 394

File: D:\test data\2012\0\Desay.EMI (429)

Date: 2012-05-20 Time: 13:33:29



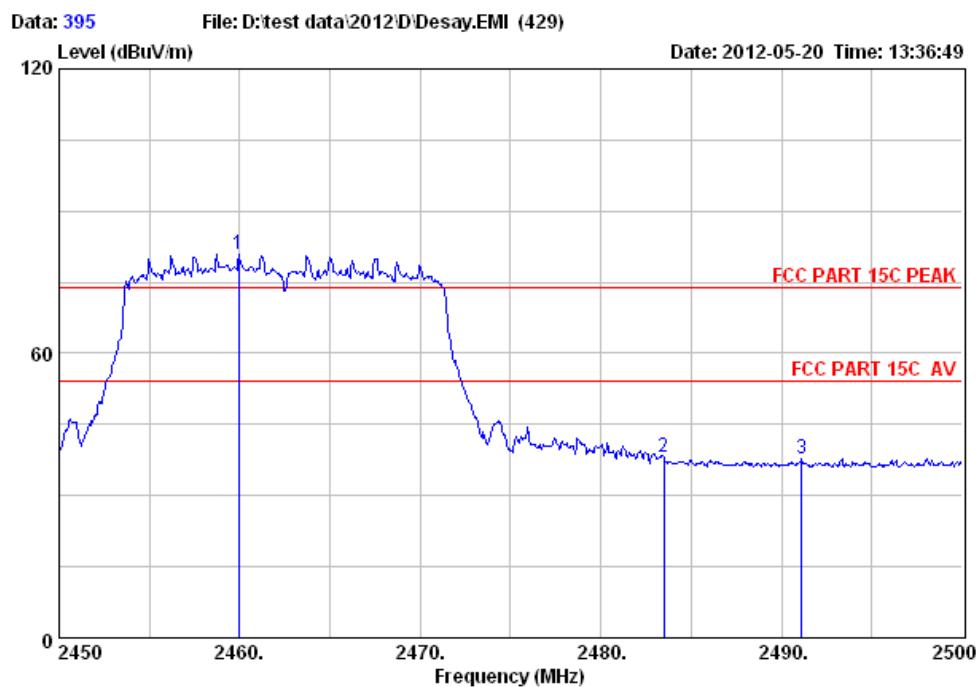
Site no. : 3m Chamber Data no. : 394
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2467.45	27.58	6.69	34.06	82.37	82.58	74.00	-8.58	Peak
2 2483.50	27.58	6.71	34.03	37.89	38.15	74.00	35.85	Peak
3 2492.95	27.58	6.73	34.03	37.47	37.75	74.00	36.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 395
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

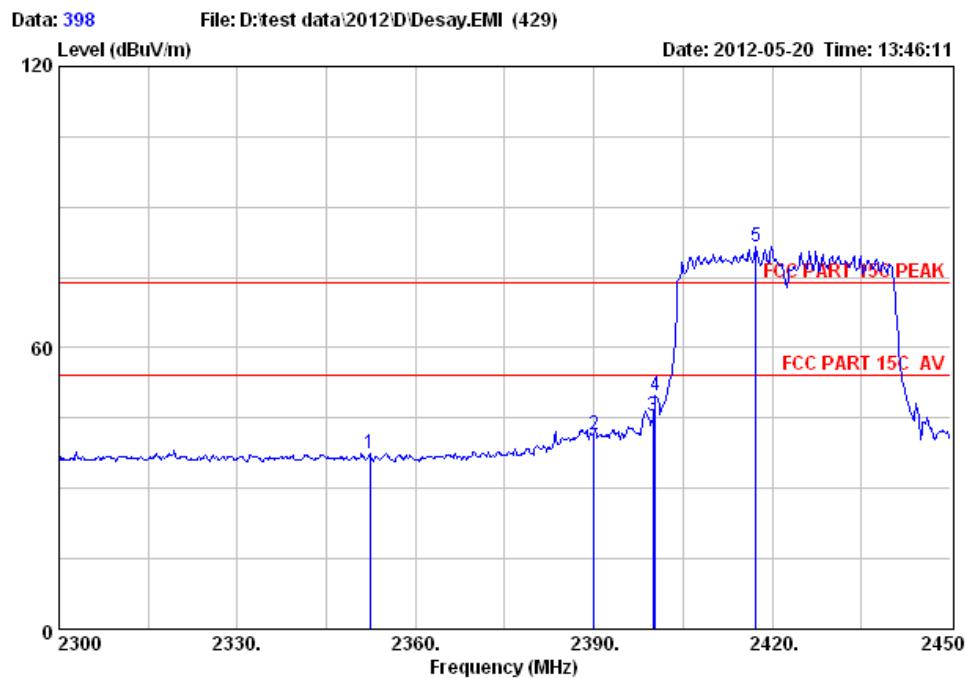
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2459.95	27.58	6.69	34.06	80.80	81.01	74.00	-7.01	Peak
2 2483.50	27.58	6.71	34.03	37.69	37.95	74.00	36.05	Peak
3 2491.10	27.58	6.73	34.03	37.42	37.70	74.00	36.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

IEEE 802.11n HT40

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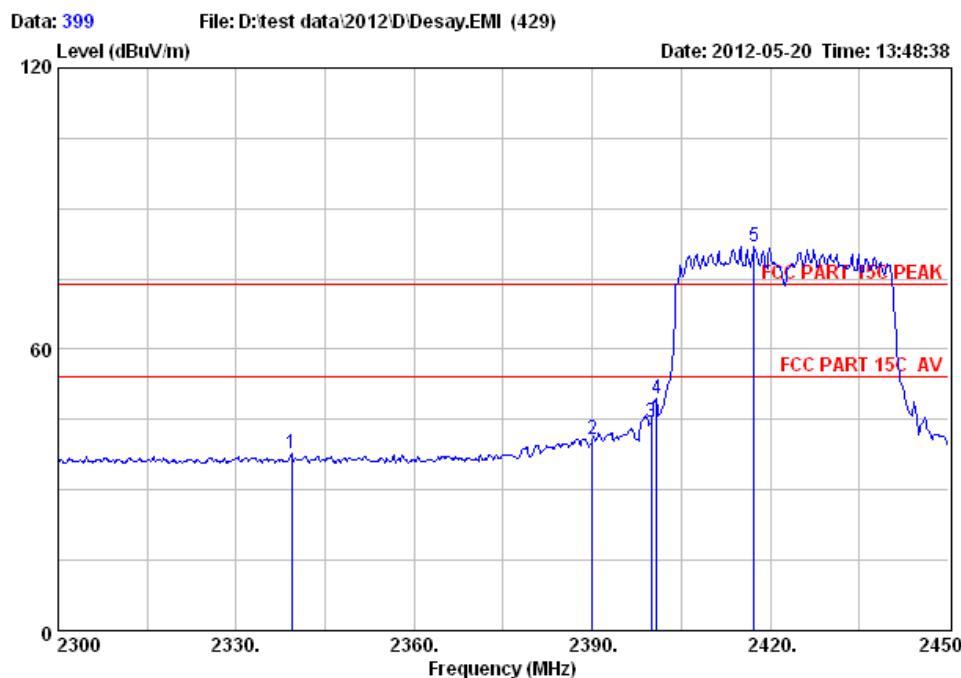
Site no. : 3m Chamber Data no. : 398
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant.		Cable	Amp	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2352.35	27.70	6.58	34.22	37.45	37.51	74.00	36.49	Peak	
2 2390.00	27.64	6.62	34.19	41.41	41.48	74.00	32.52	Peak	
3 2400.00	27.61	6.62	34.18	45.54	45.59	74.00	28.41	Peak	
4 2400.35	27.61	6.62	34.18	49.71	49.76	74.00	24.24	Peak	
5 2417.30	27.60	6.64	34.15	81.47	81.56	74.00	-7.56	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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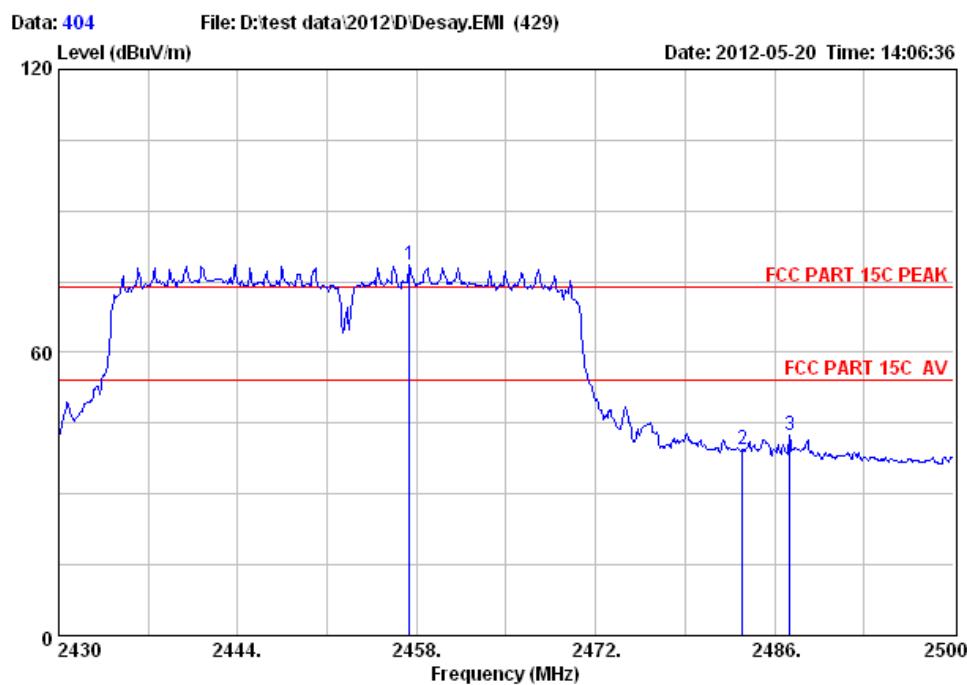
Site no. : 3m Chamber Data no. : 399
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH1 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2339.30	27.73	6.56	34.23	37.65	37.71	74.00	36.29	Peak
2 2390.00	27.64	6.62	34.19	40.56	40.63	74.00	33.37	Peak
3 2400.00	27.61	6.62	34.18	44.54	44.59	74.00	29.41	Peak
4 2400.80	27.61	6.62	34.18	49.28	49.33	74.00	24.67	Peak
5 2417.30	27.60	6.64	34.15	81.69	81.78	74.00	-7.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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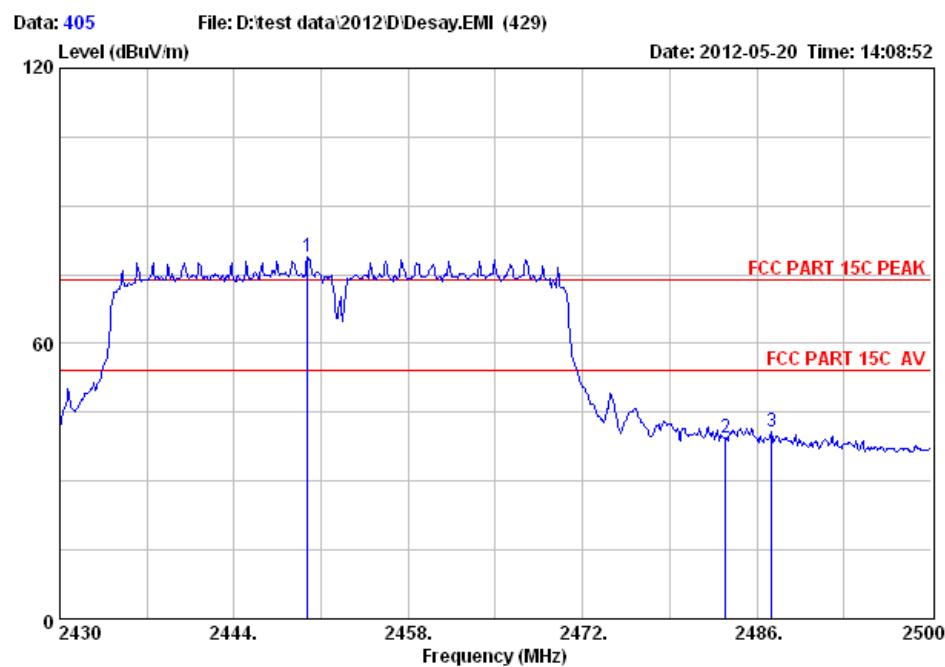
Site no. : 3m Chamber Data no. : 404
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2457.44	27.59	6.69	34.09	78.43	78.62	74.00	-4.62	Peak
2 2483.50	27.58	6.71	34.03	39.19	39.45	74.00	34.55	Peak
3 2487.19	27.58	6.71	34.03	42.33	42.59	74.00	31.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 405
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BLU-RAY DISC PLAYER
 Power : AC 120V/60Hz
 M/N : DS-B202-R
 Test Mode : IEEE 802.11n HT40 CH7 2452TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2449.88	27.59	6.67	34.09	78.72	78.89	74.00	-4.89	Peak
2 2483.50	27.58	6.71	34.03	39.29	39.55	74.00	34.45	Peak
3 2487.19	27.58	6.71	34.03	40.56	40.82	74.00	33.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.2. Test Procedure

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB

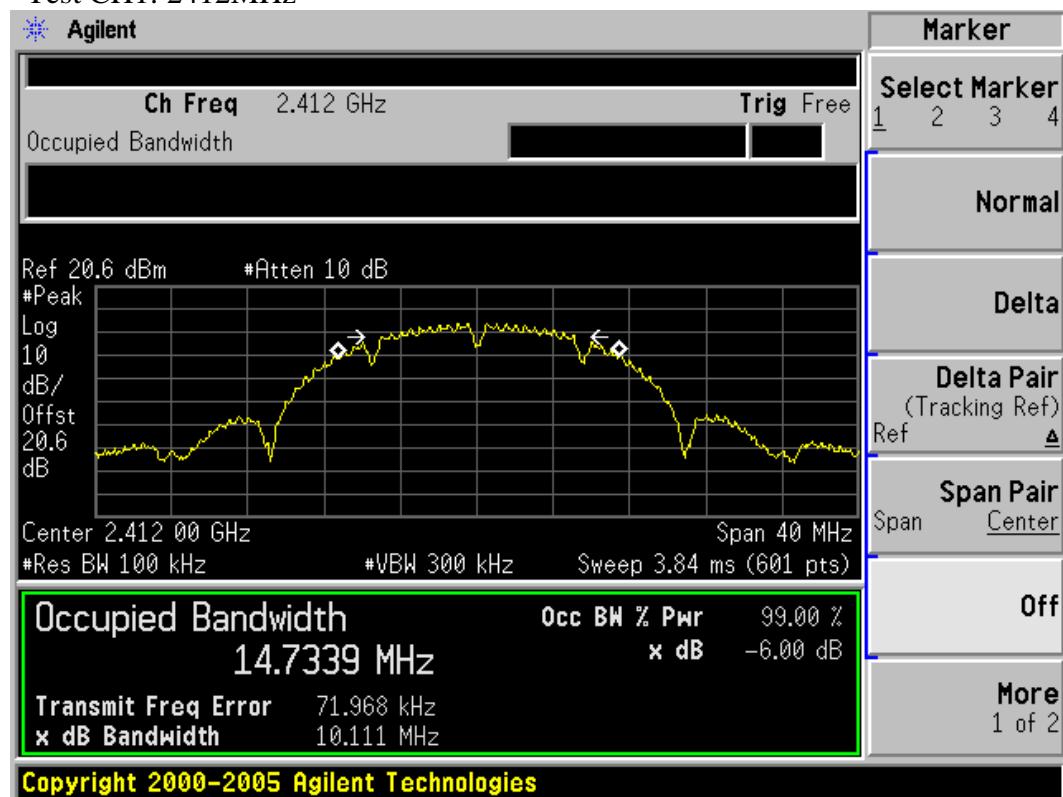
7.3. Test Result

EUT: BLU-RAY DISC PLAYER			
M/N:DS-B202-R			
Test date:2012-05-20		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	10.111	>500
	CH6	10.106	>500
	CH11	10.057	>500
11g	CH1	16.564	>500
	CH6	16.541	>500
	CH11	16.559	>500
11n HT20	CH1	17.743	>500
	CH6	17.702	>500
	CH11	17.742	>500
11n HT40	CH1	36.440	>500
	CH4	36.464	>500
	CH7	36.463	>500
Conclusion : PASS			

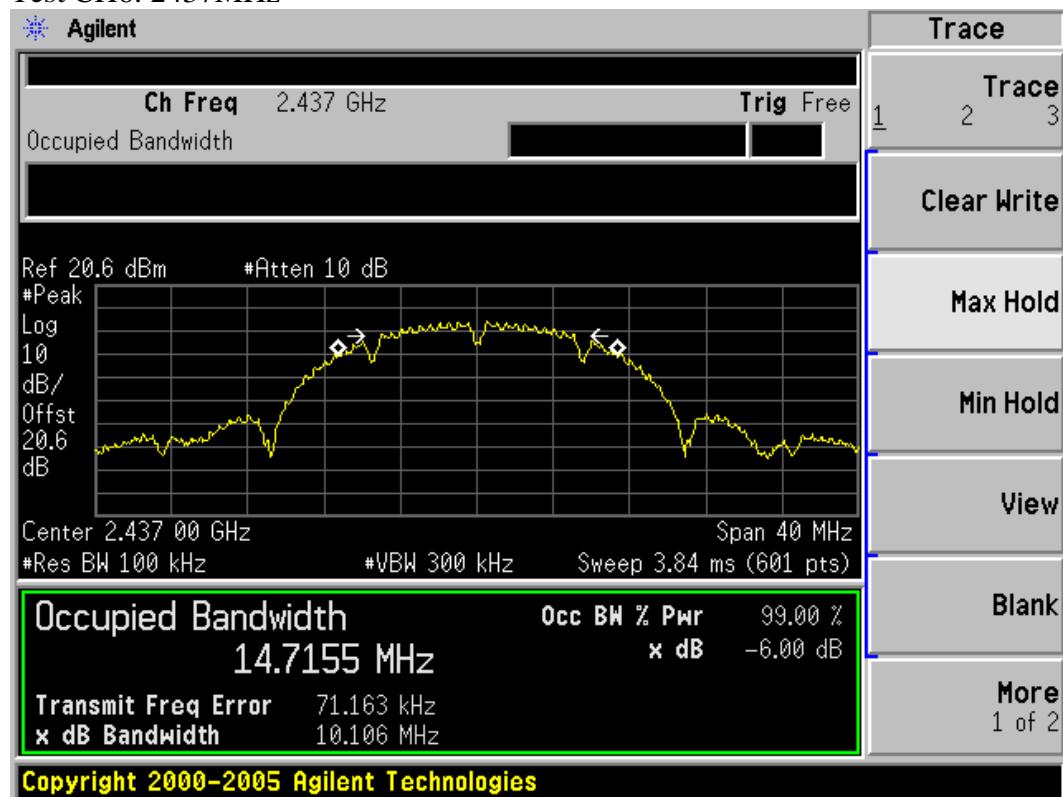
7.4. Test Data

Test Mode: IEEE 802.11b TX

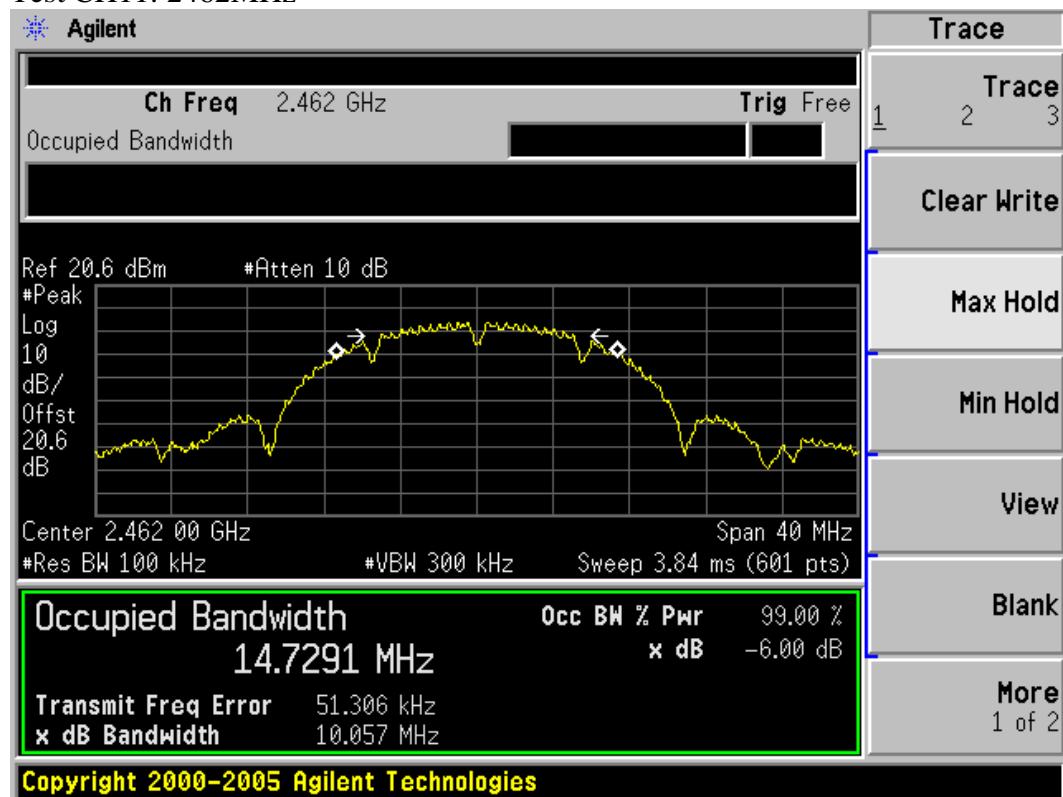
Test CH1: 2412MHz



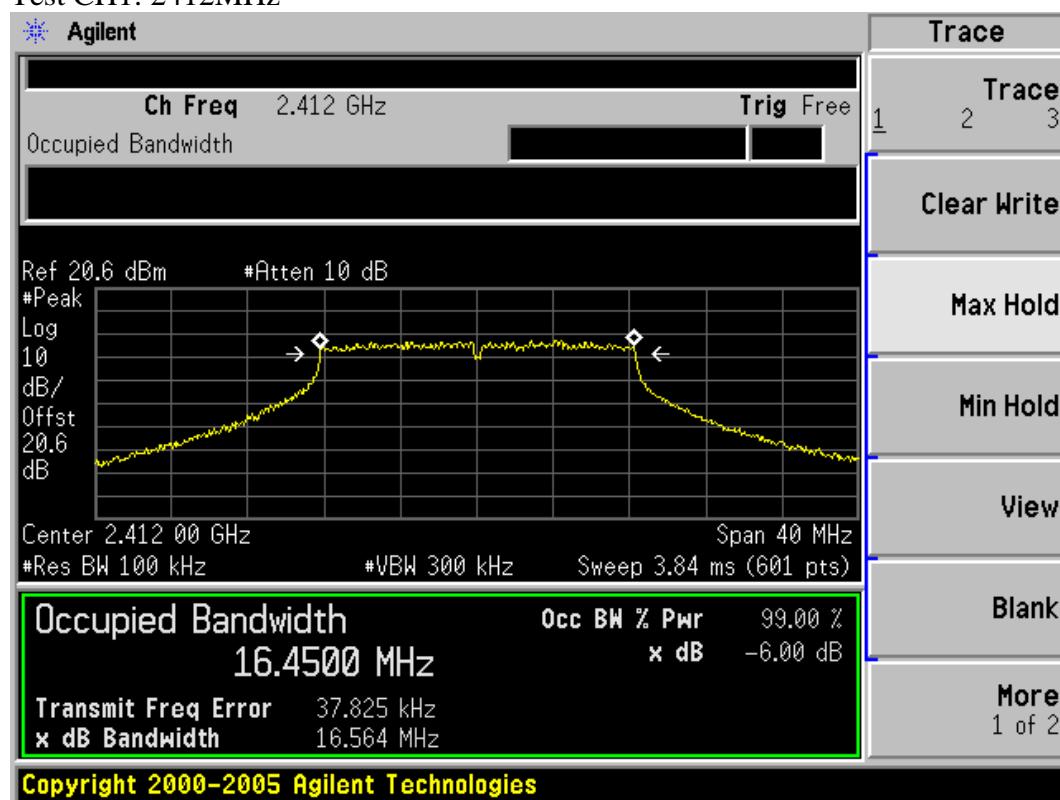
Test CH6: 2437MHz



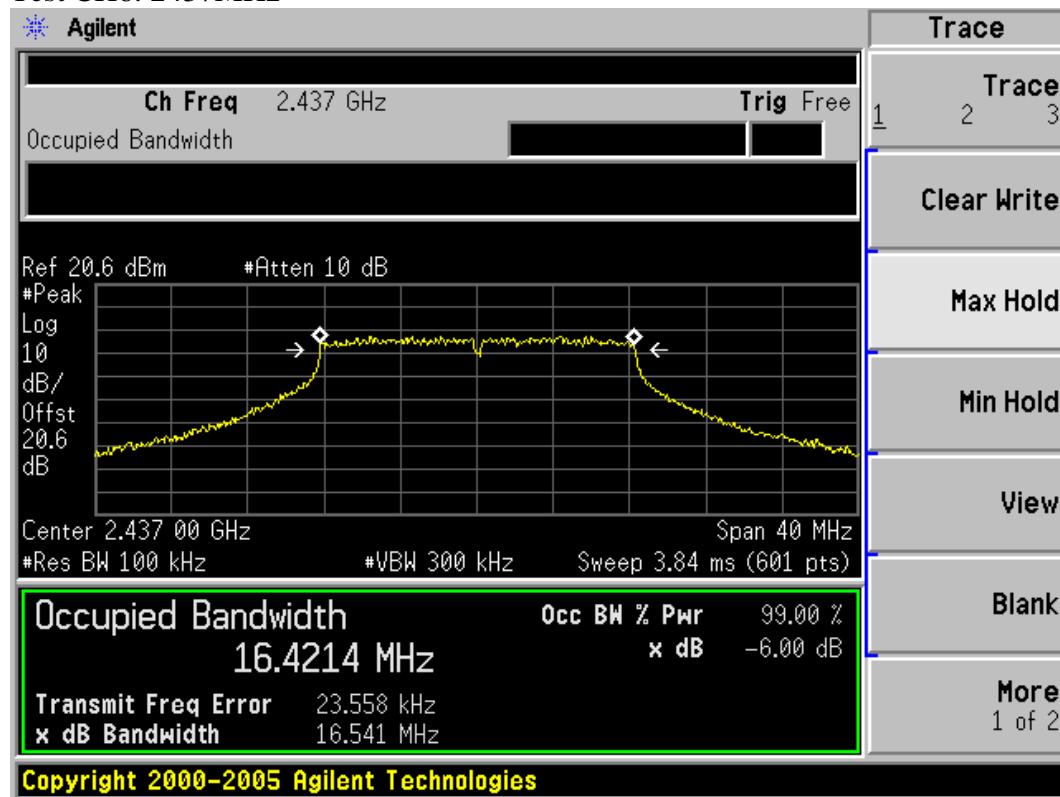
Test CH11: 2462MHz



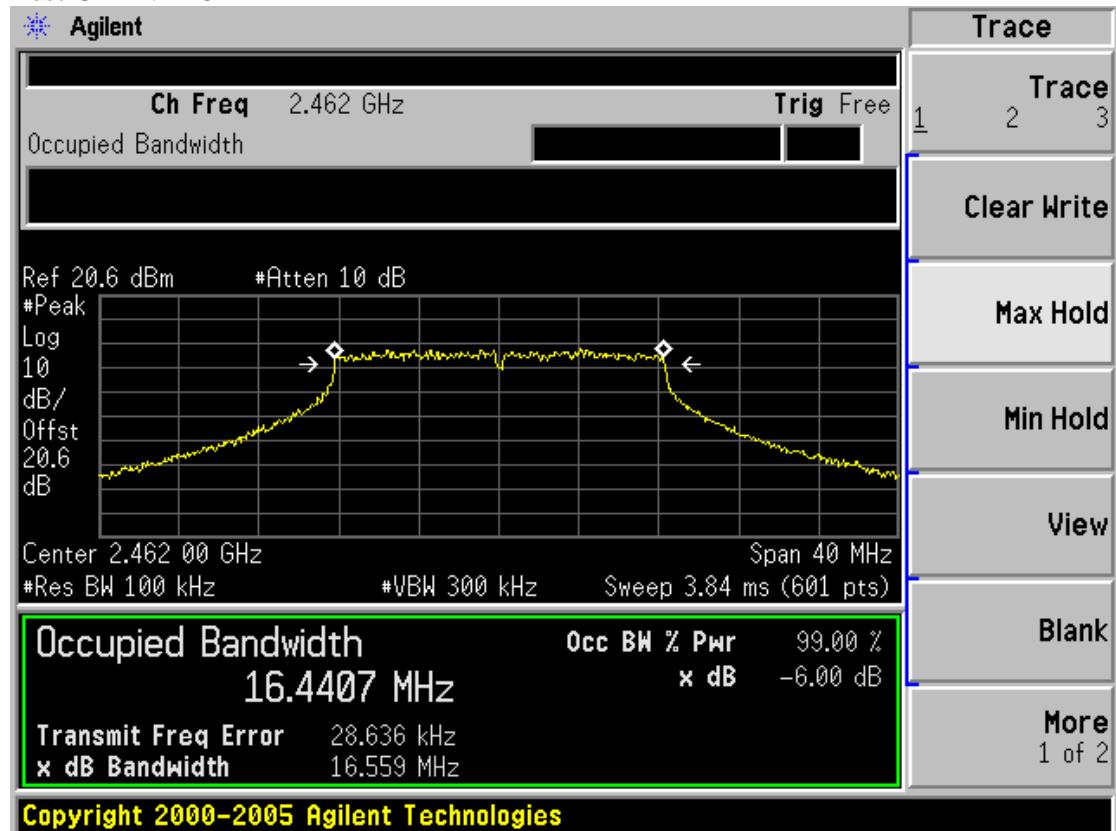
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz



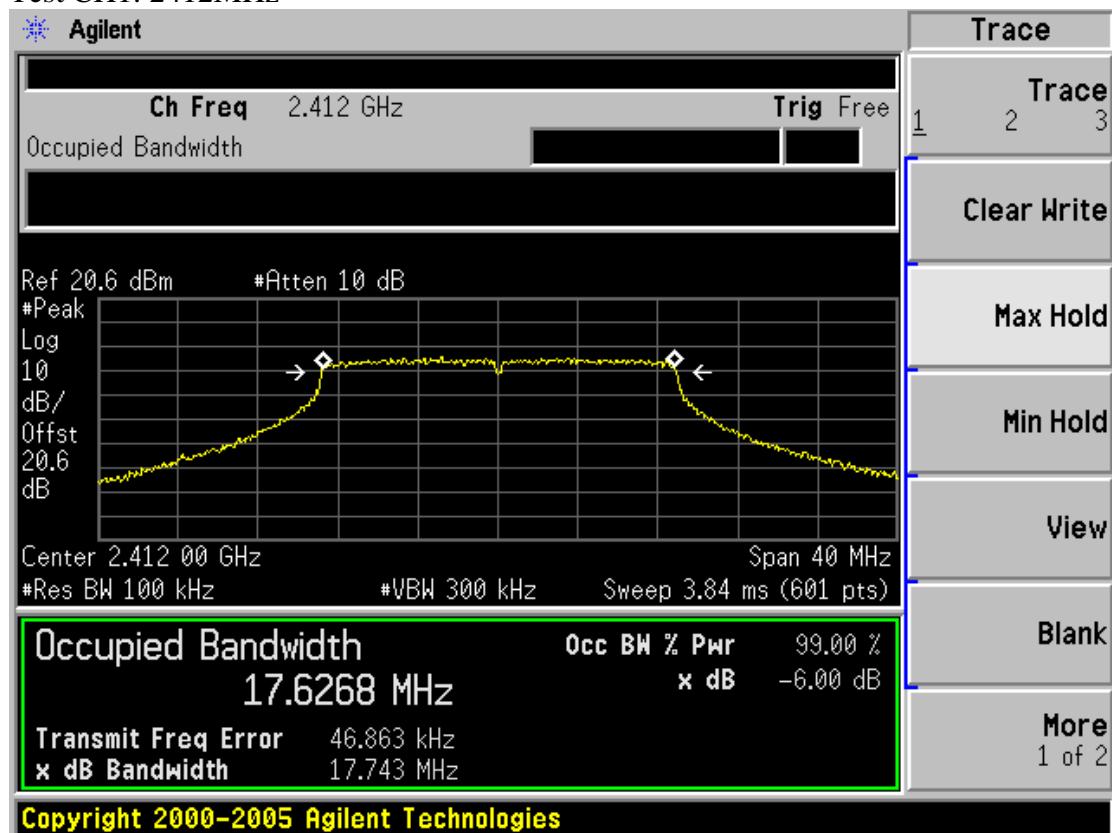
Test CH6: 2437MHz



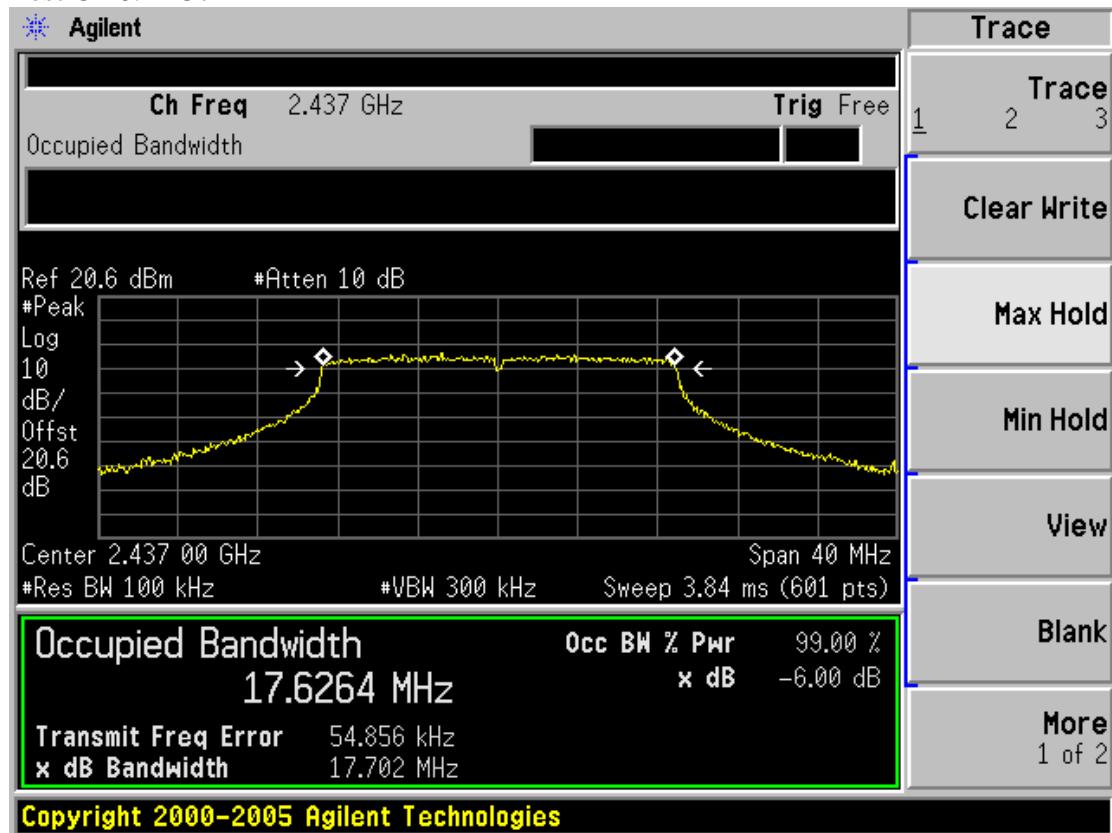
Test CH11: 2462MHz



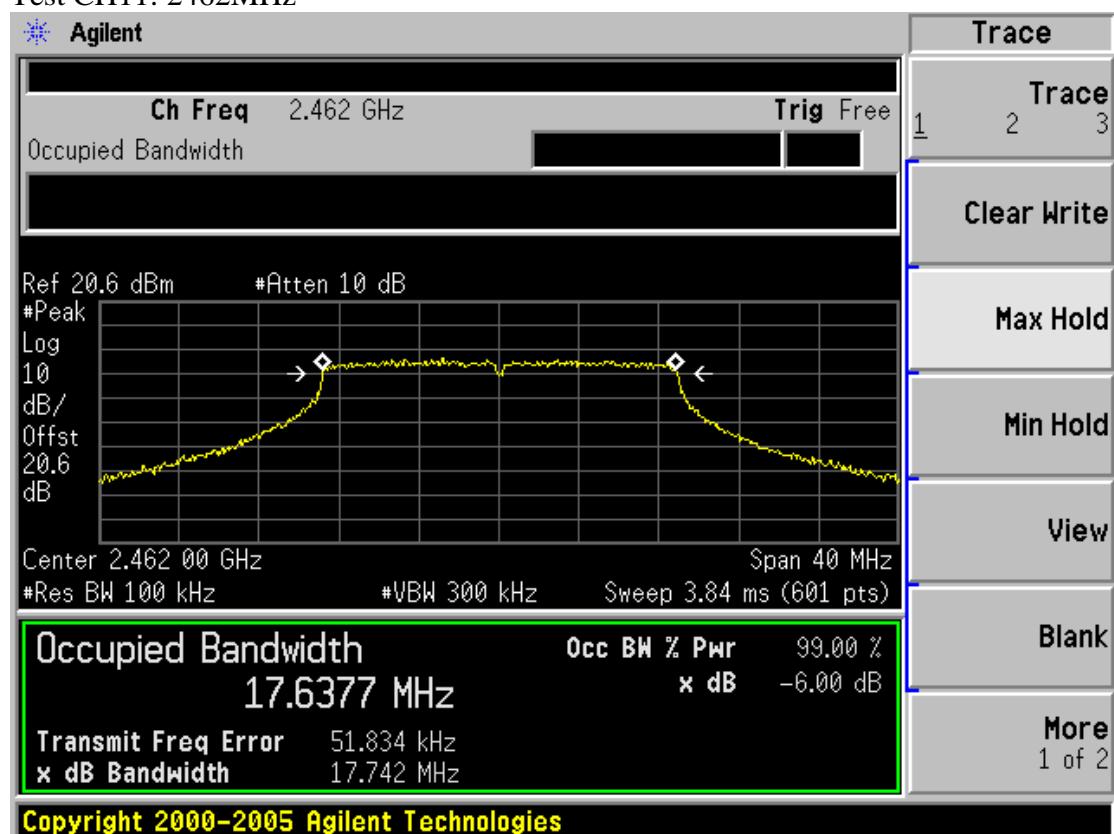
Test Mode: IEEE 802.11n HT20TX
 Test CH1: 2412MHz



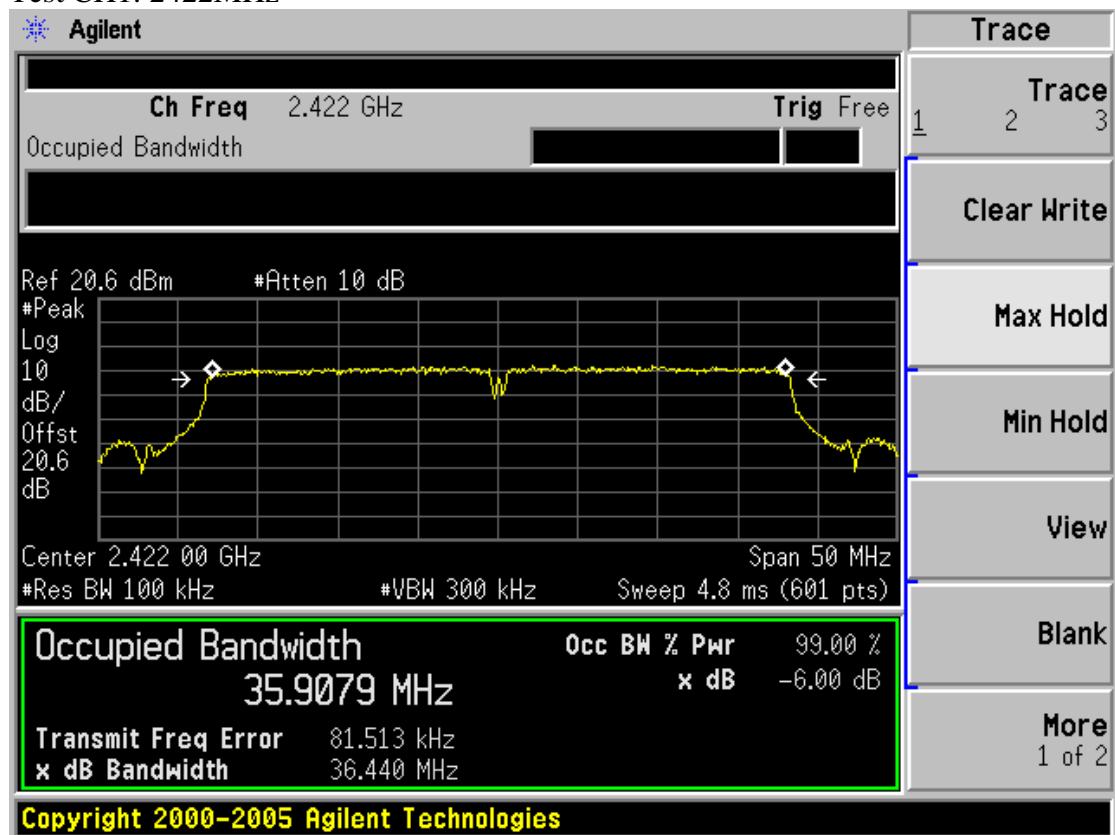
Test CH6: 2437MHz



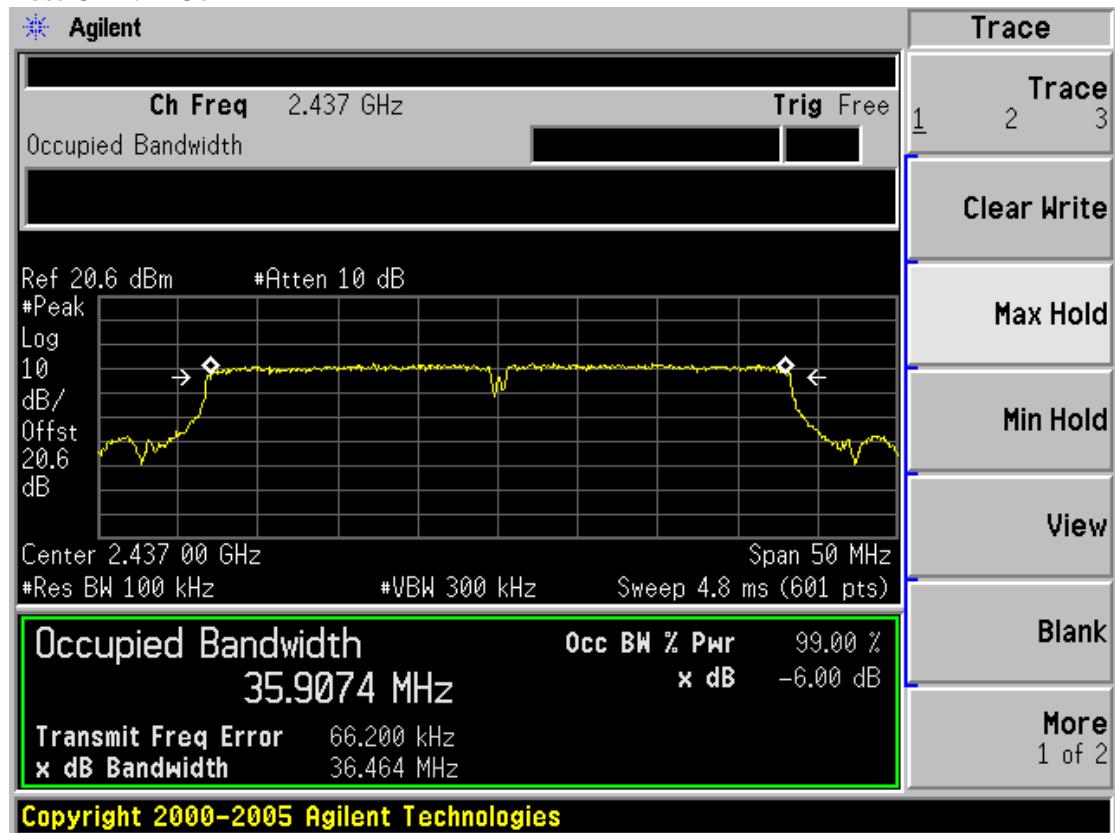
Test CH11: 2462MHz



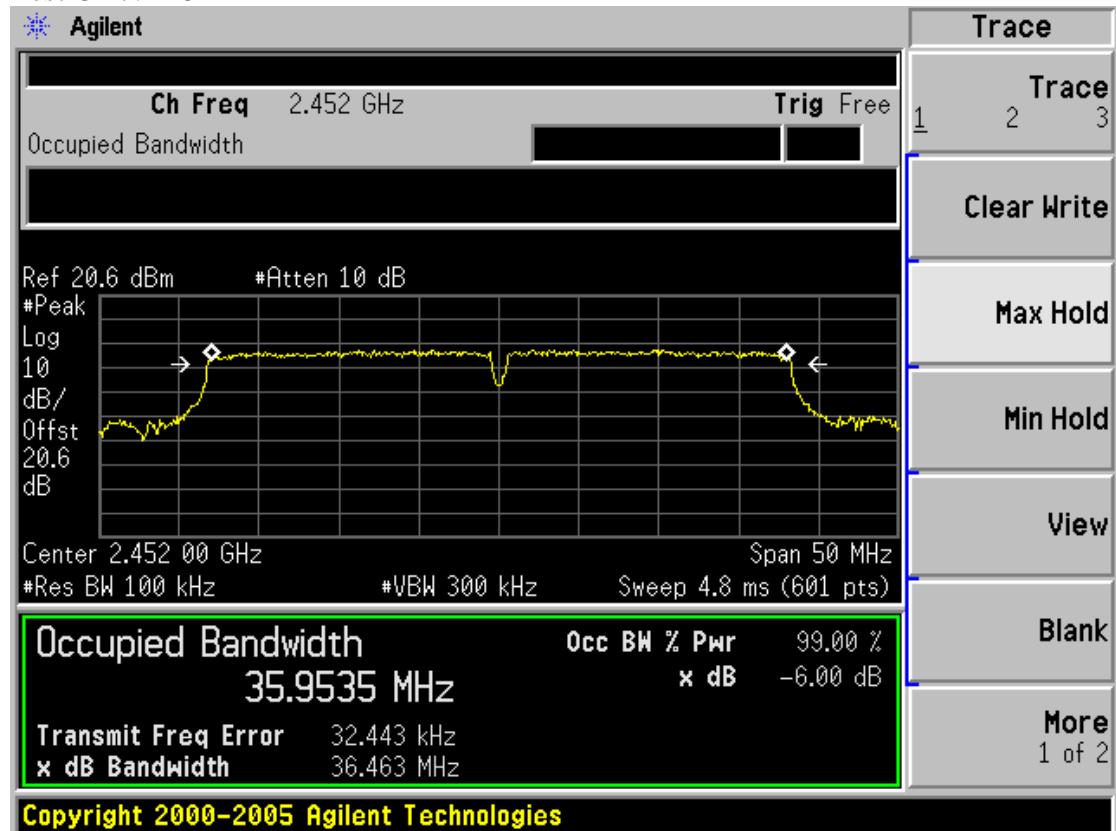
Test Mode: IEEE 802.11n HT40TX
 Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm)

8.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

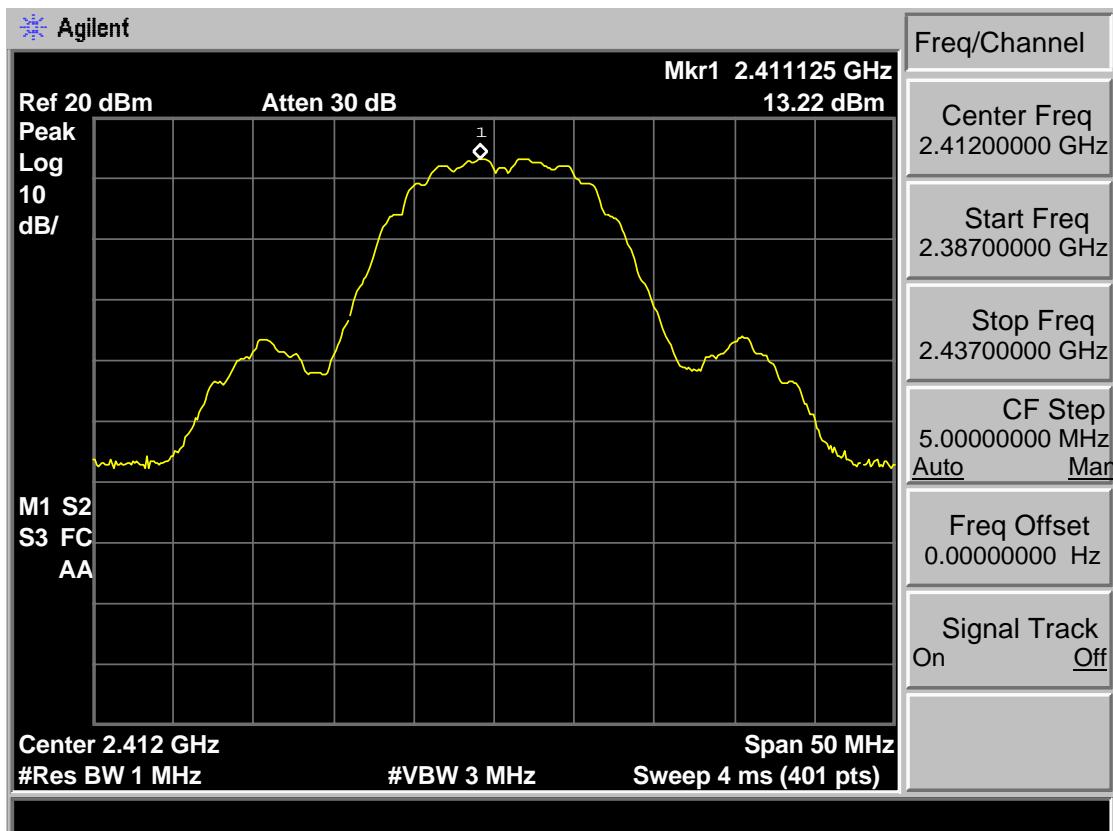
8.3. Test Result

EUT:BLU-RAY DISC PLAYER		
M/N:DS-B202-R		
Test date:2012-05-20	Test site: 3m Chamber	Tested by: Tony Tang
Pass		

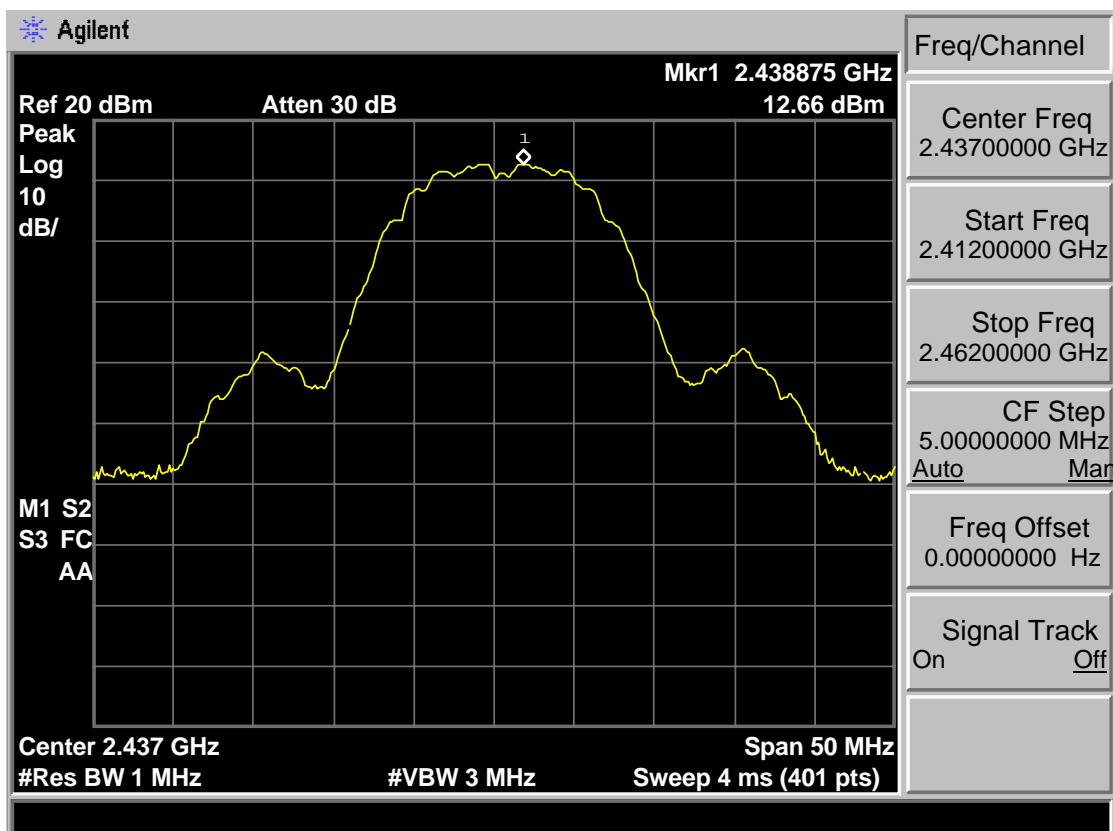
Test Mode	CH	Peak output Power (dBm)	Limit (dBm)
11b	CH1	13.22	30
	CH6	12.66	30
	CH11	11.94	30
11g	CH1	15.32	30
	CH6	15.06	30
	CH11	14.58	30
11n HT20	CH1	15.11	30
	CH6	14.81	30
	CH11	14.44	30
11n HT40	CH1	13.12	30
	CH4	12.85	30
	CH7	12.38	30
Conclusion : PASS			

8.4. Test Data

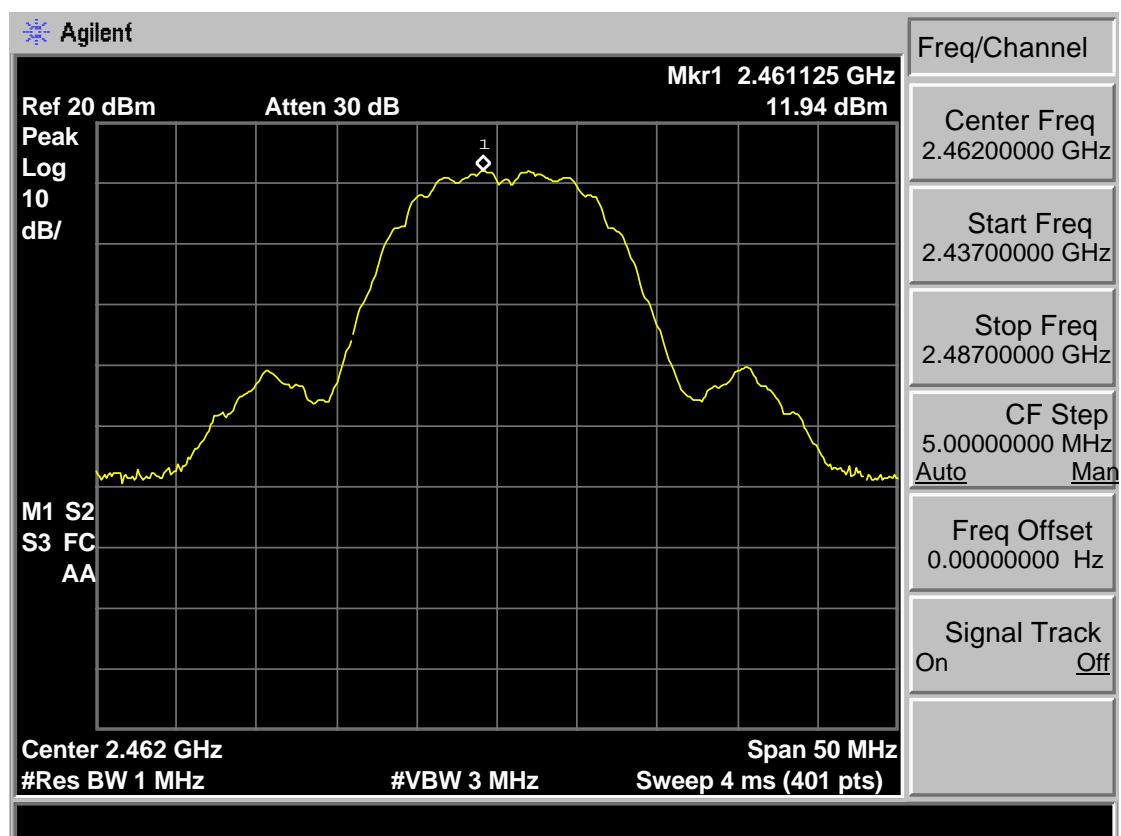
Test Mode: IEEE 802.11b
CH 1



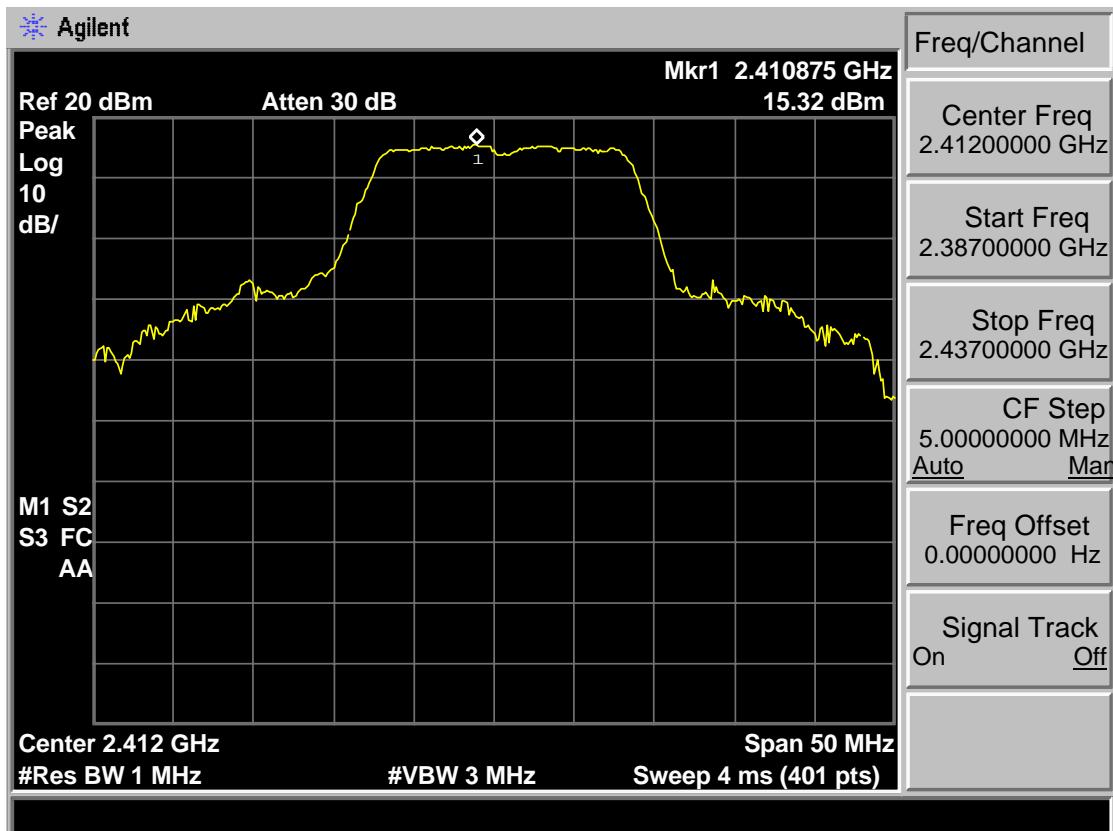
CH 6



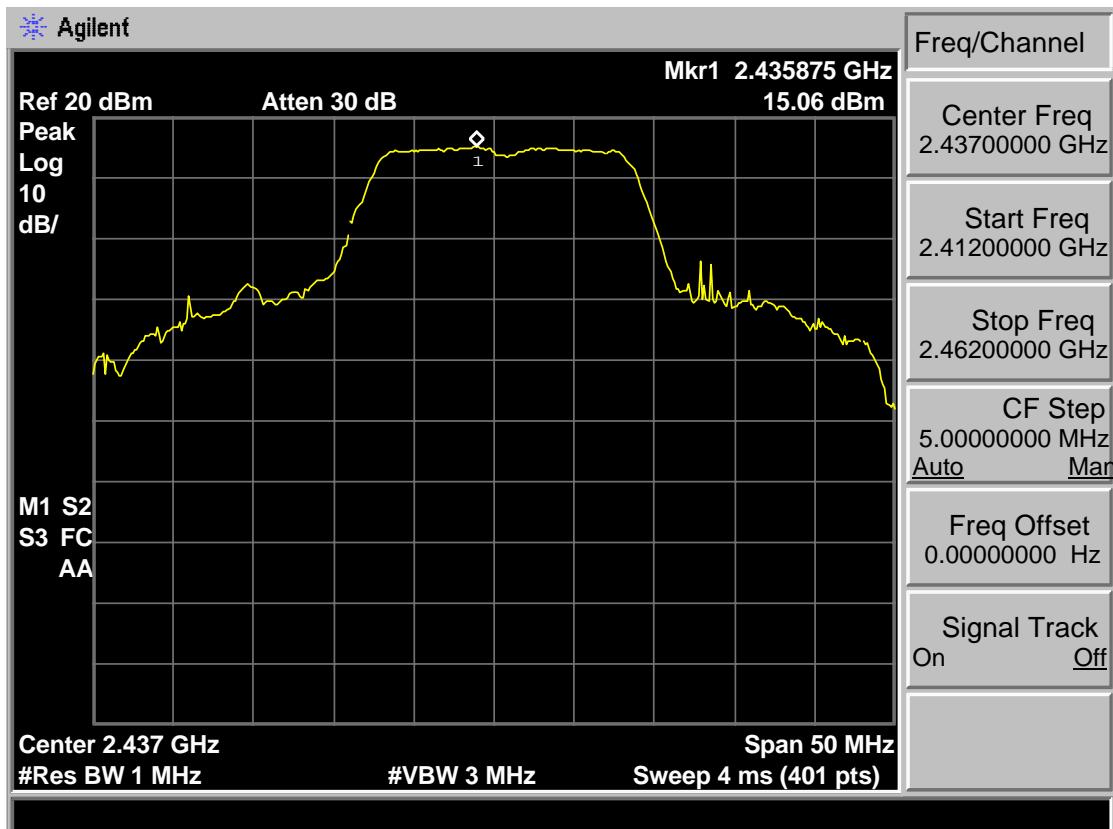
CH 11



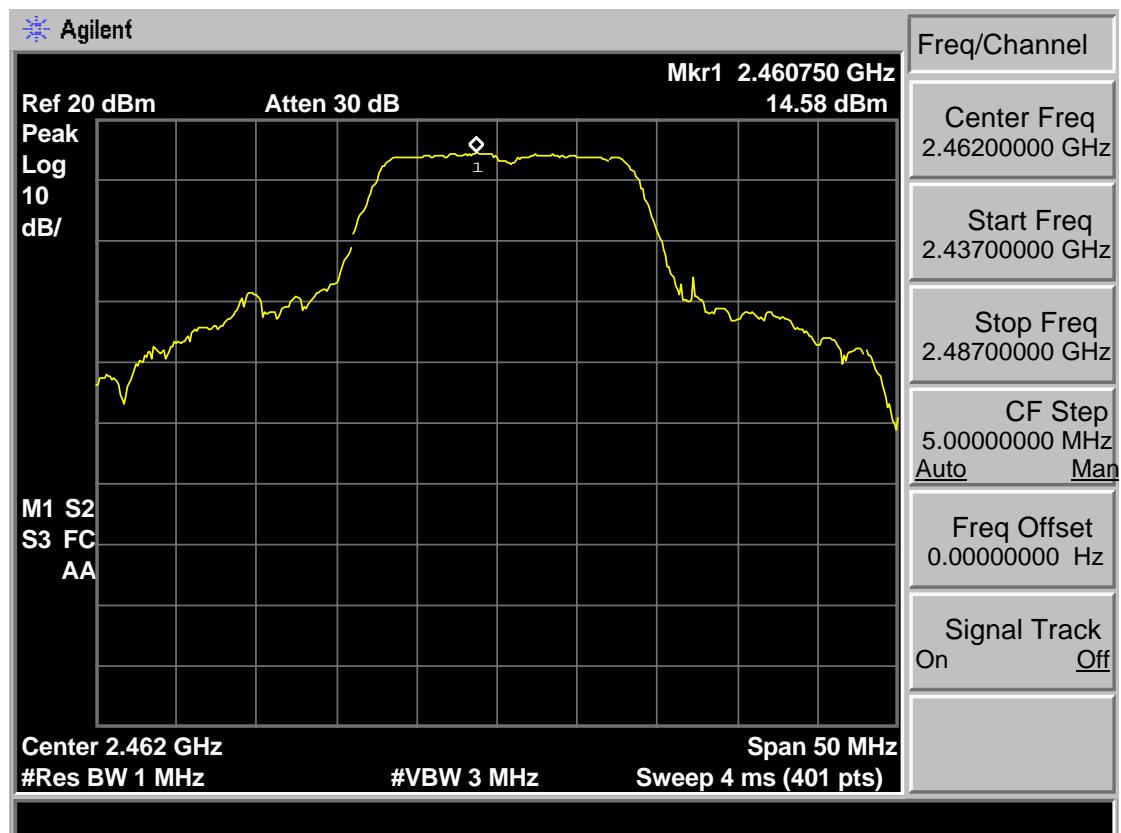
Test Mode: IEEE 802.11g
CH 1



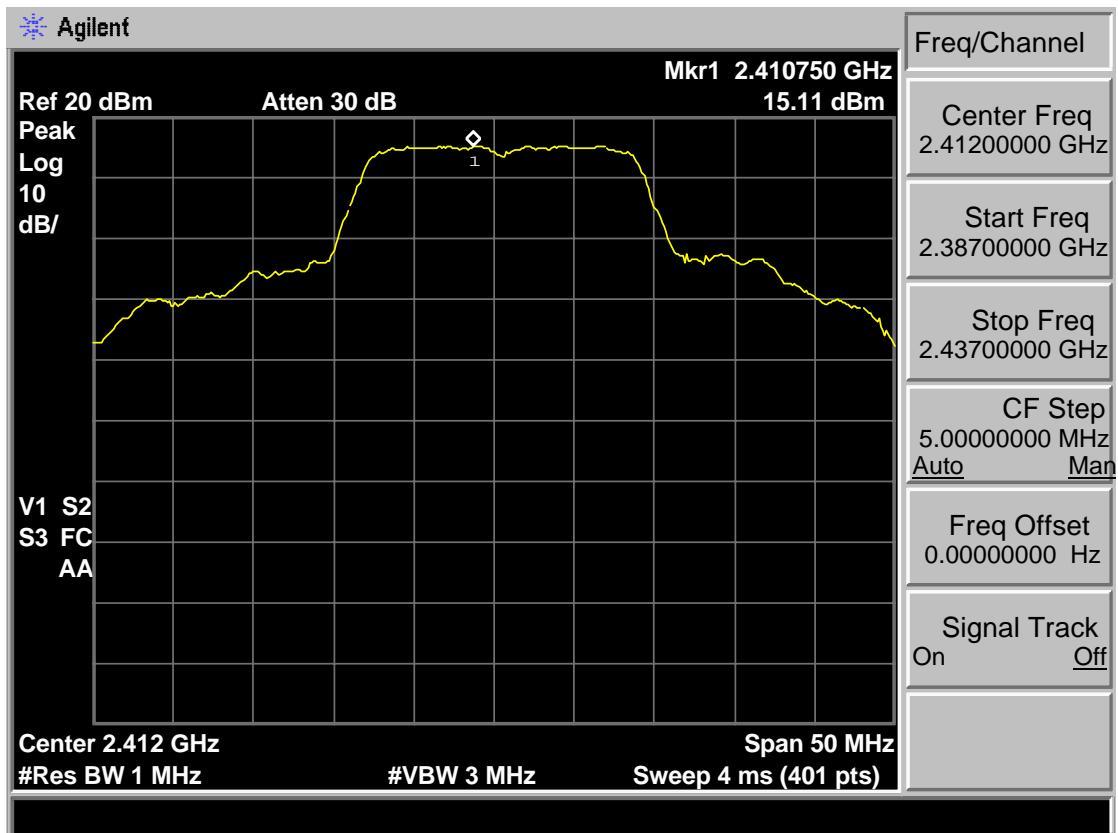
CH 6



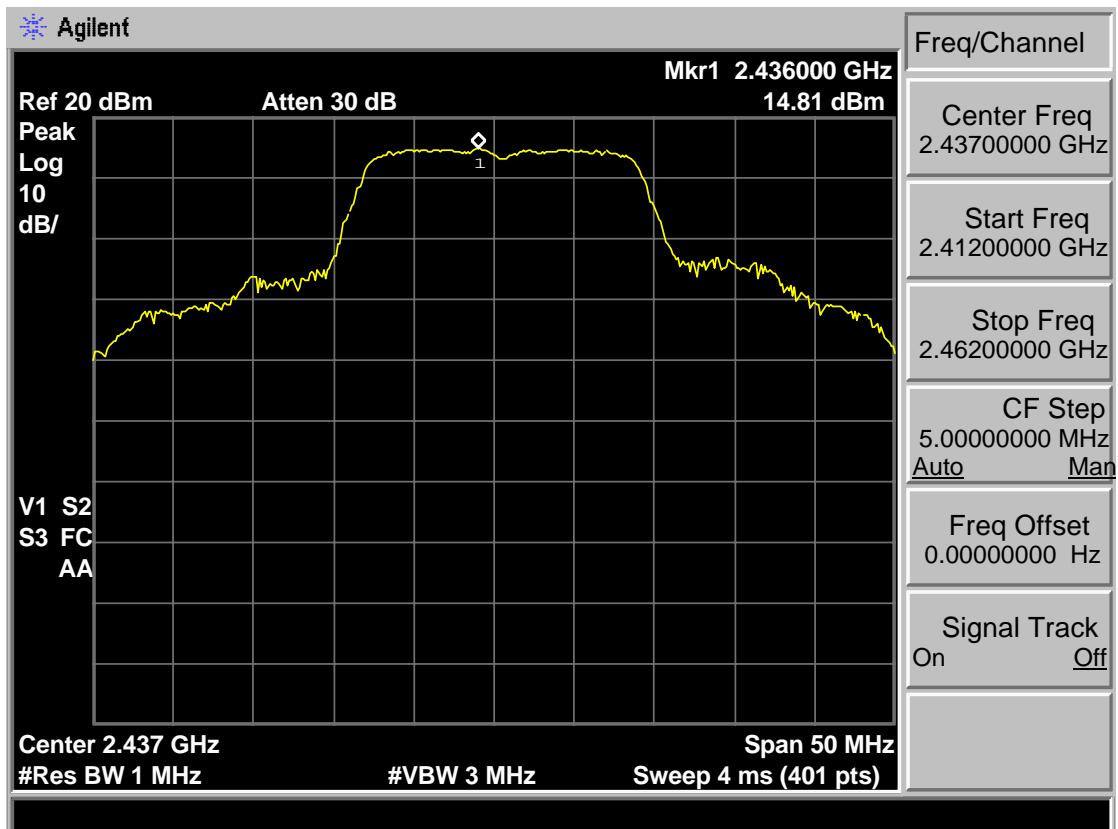
CH 11



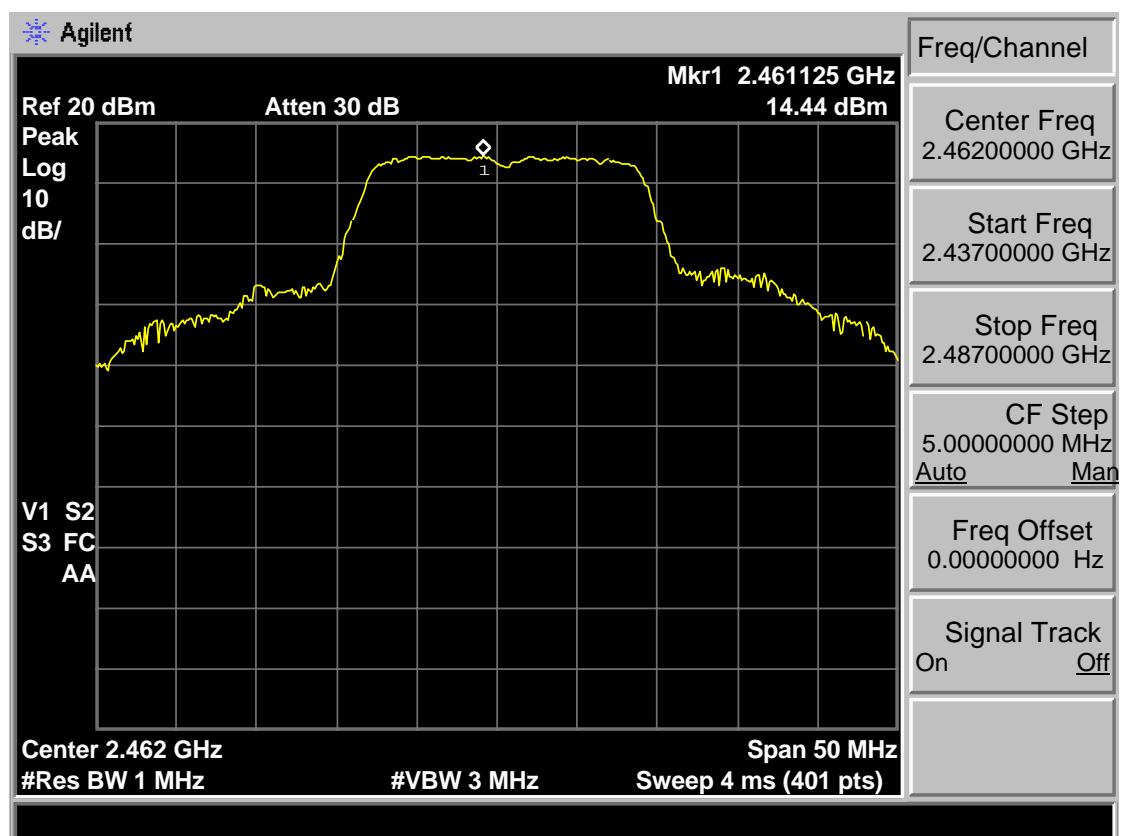
Test Mode: IEEE 802.11n HT20
CH 1



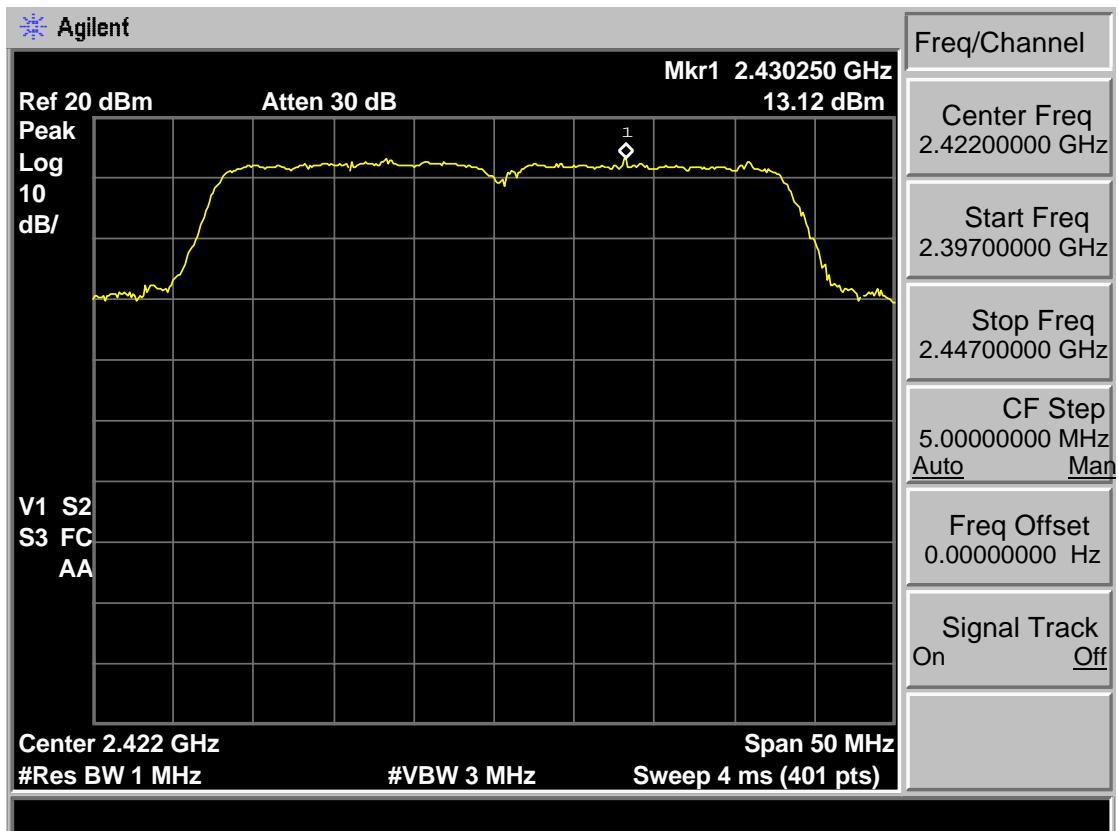
CH 6



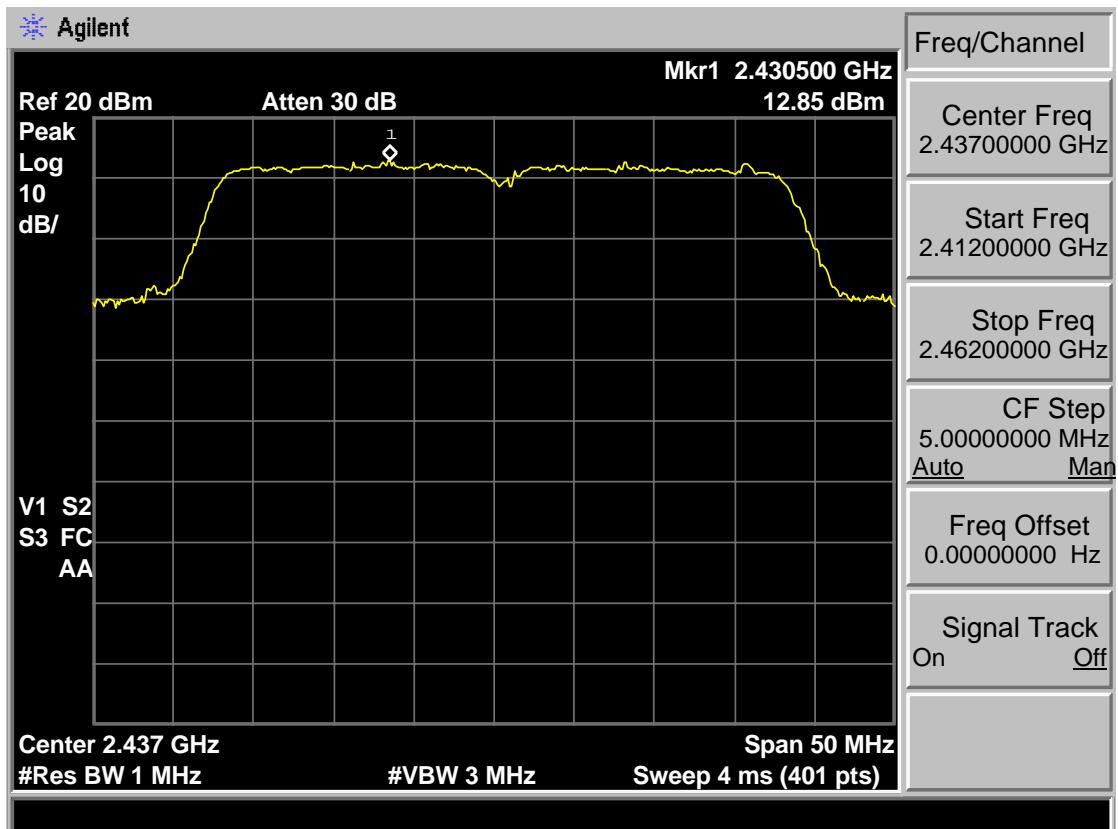
CH 11



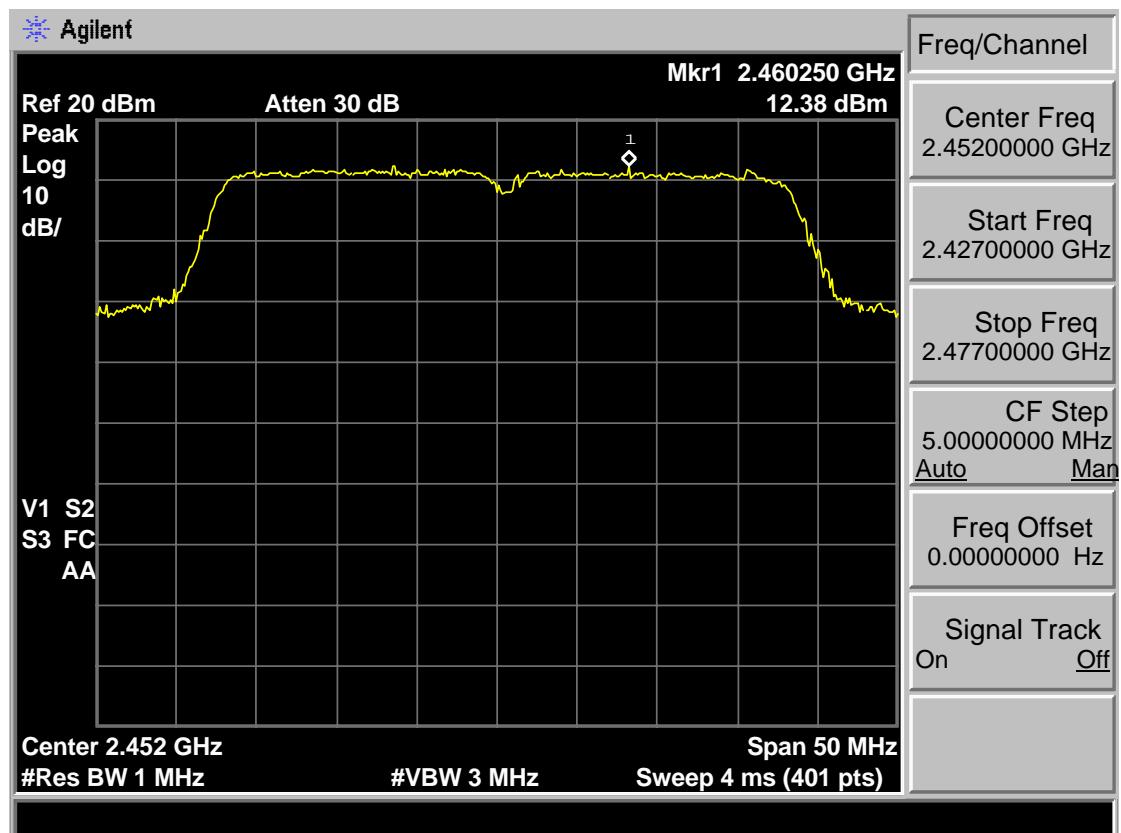
Test Mode: IEEE 802.11n HT40
CH 1



CH 4



CH 7



9. POWER SPECTRAL DENSITY TEST

9.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.2. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.63.4 to measure out each test modes and chain's power density with 3KHz.

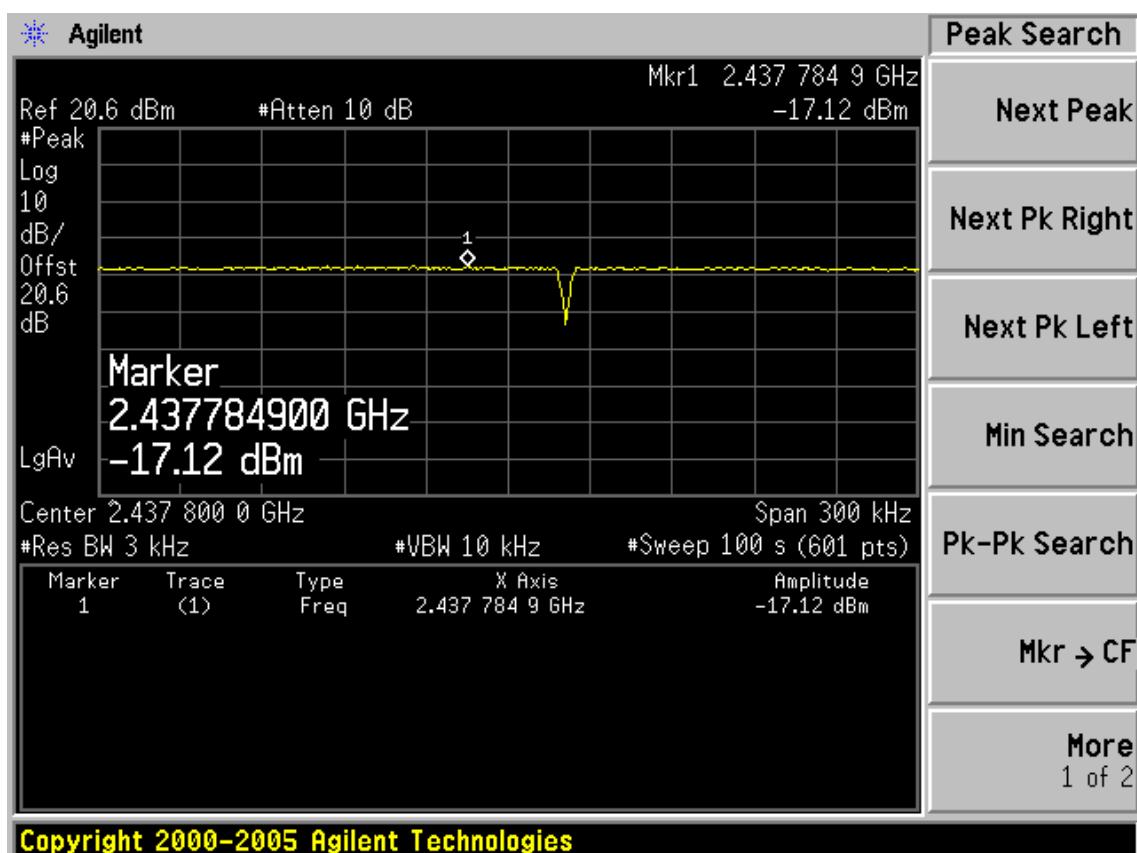
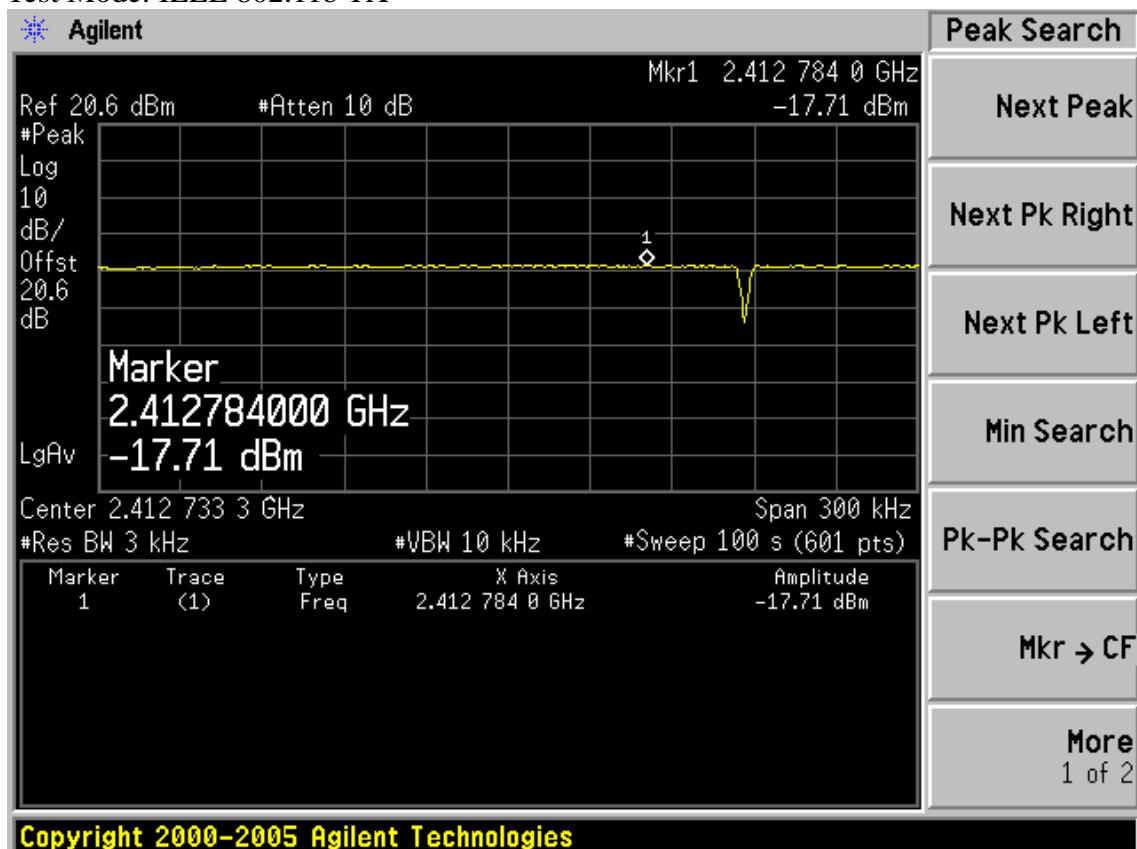
9.3. Test Result

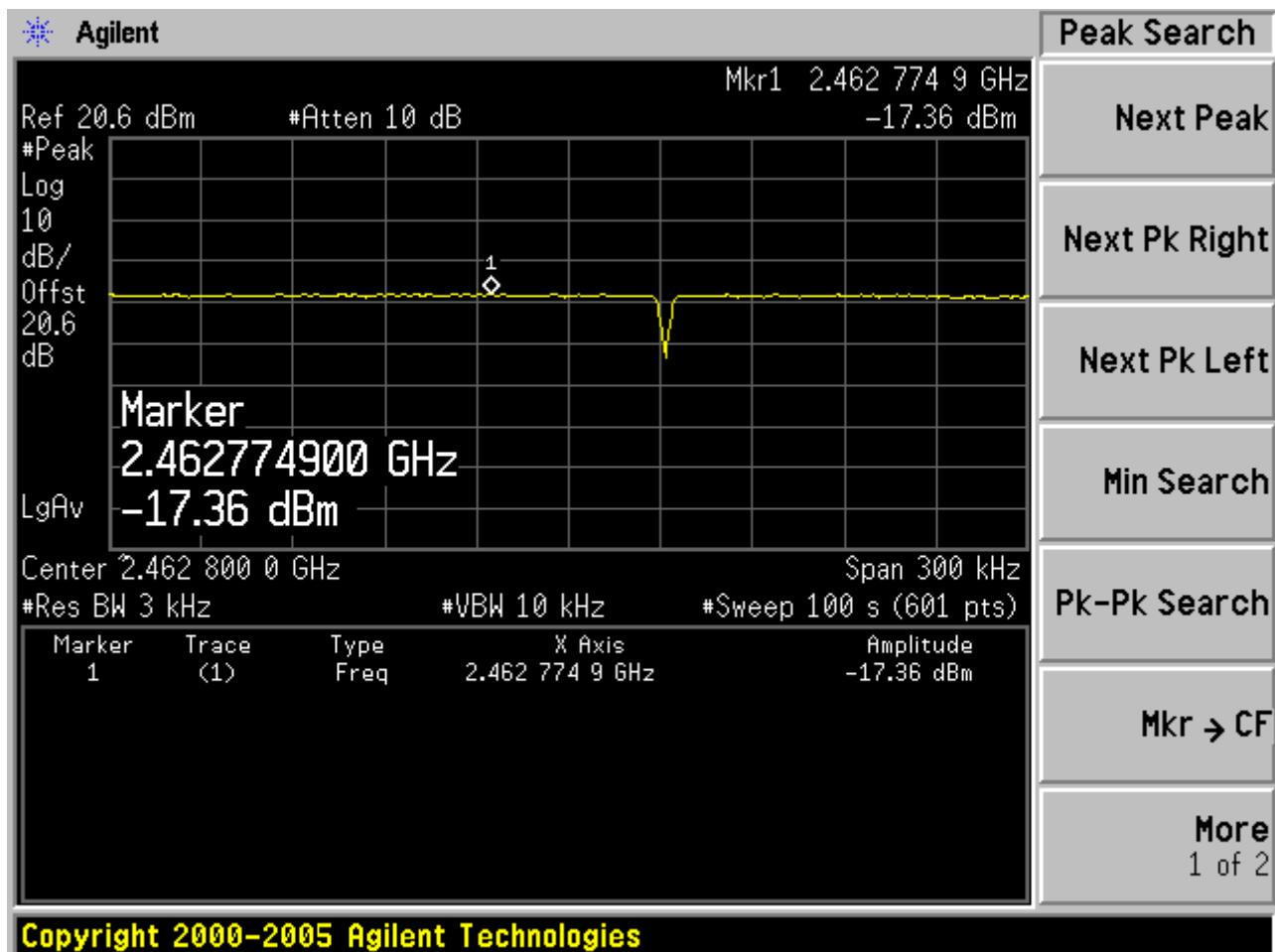
EUT:BLU-RAY DISC PLAYER			
M/N:DS-B202-R			
Test date:2012-05-20	Test site: 3m Chamber	Tested by: Tony Tang	
Pass			

Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-17.71	8
	CH6	-17.12	8
	CH11	-17.36	8
11g	CH1	-16.88	8
	CH6	-16.42	8
	CH11	-16.52	8
11n HT20	CH1	-14.02	8
	CH6	-13.36	8
	CH11	-13.76	8
11n HT40	CH1	-15.65	8
	CH4	-15.47	8
	CH7	-16.14	8
Conclusion : PASS			

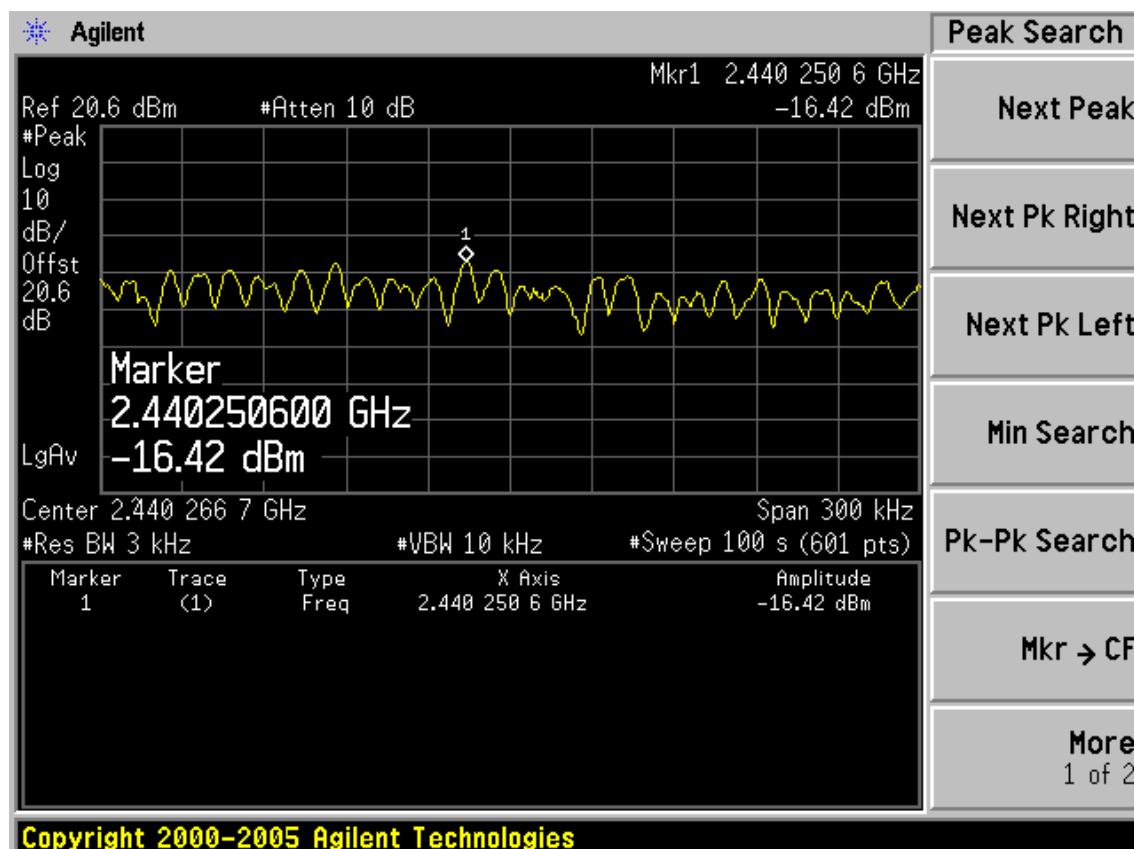
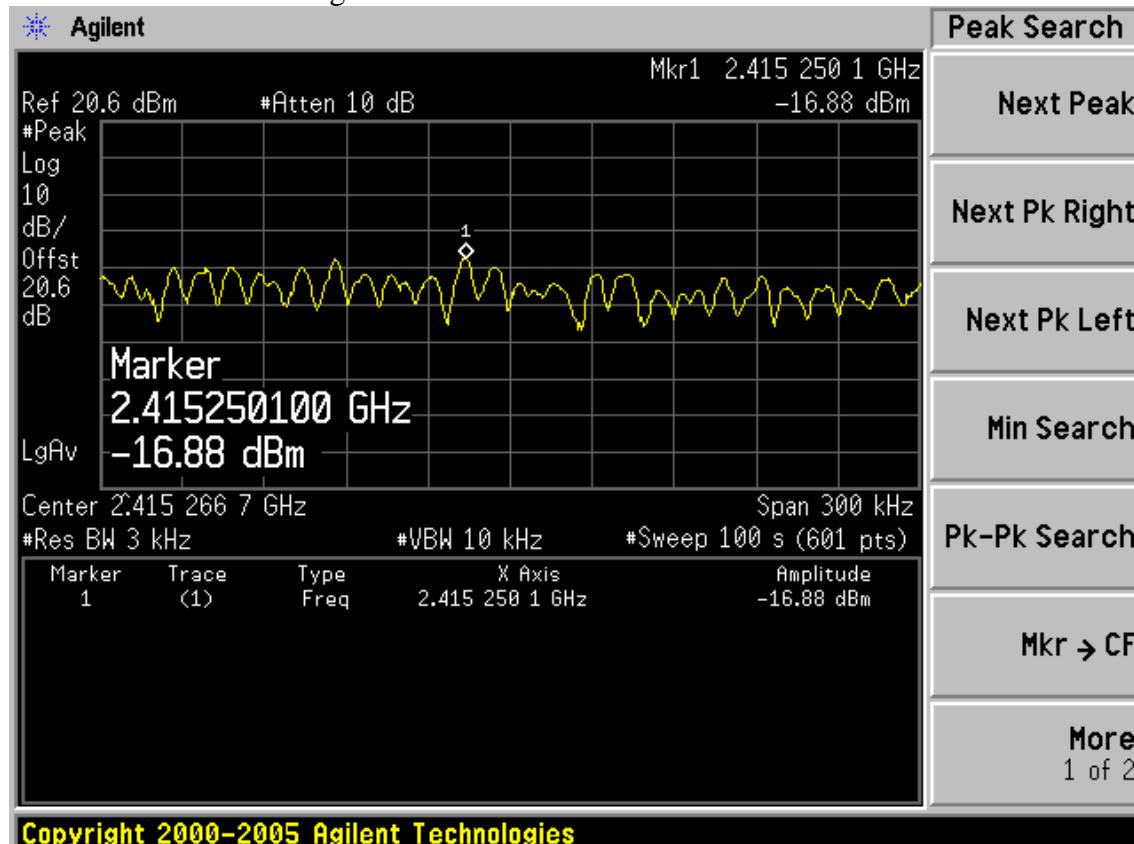
9.4. Test Data

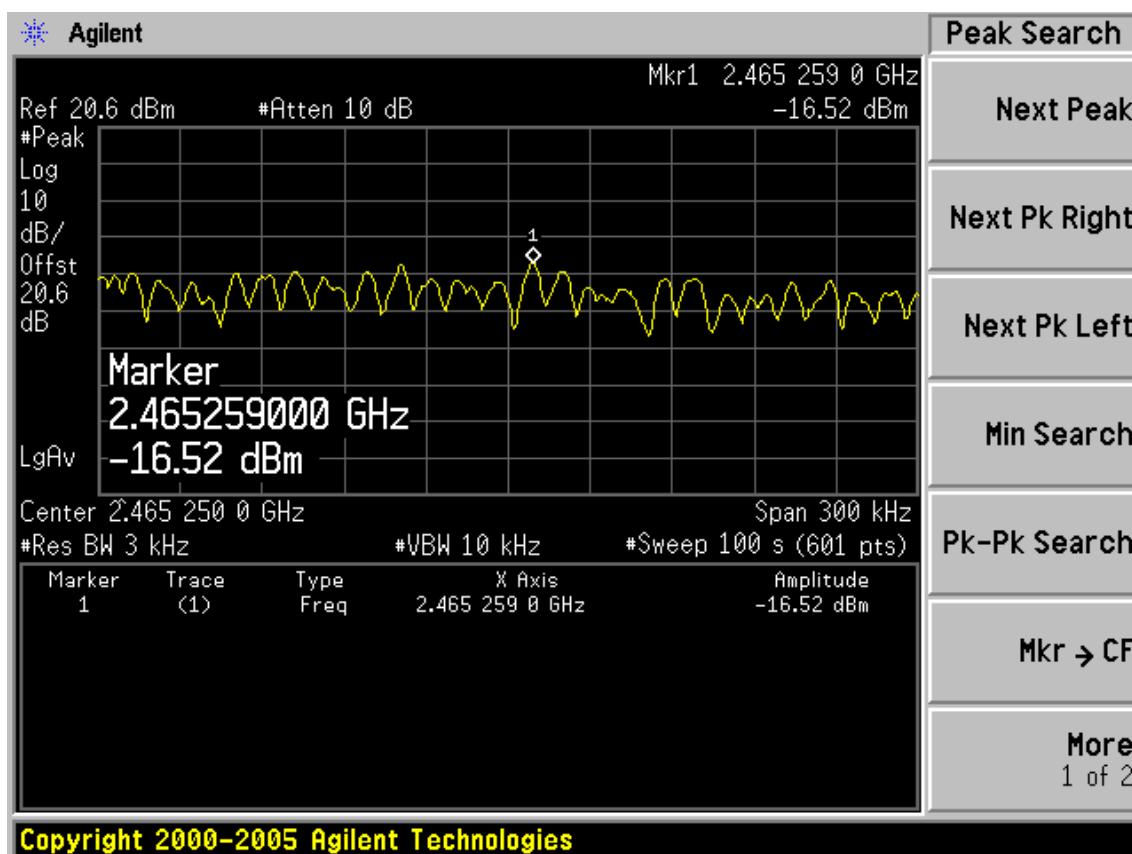
Test Mode: IEEE 802.11b TX



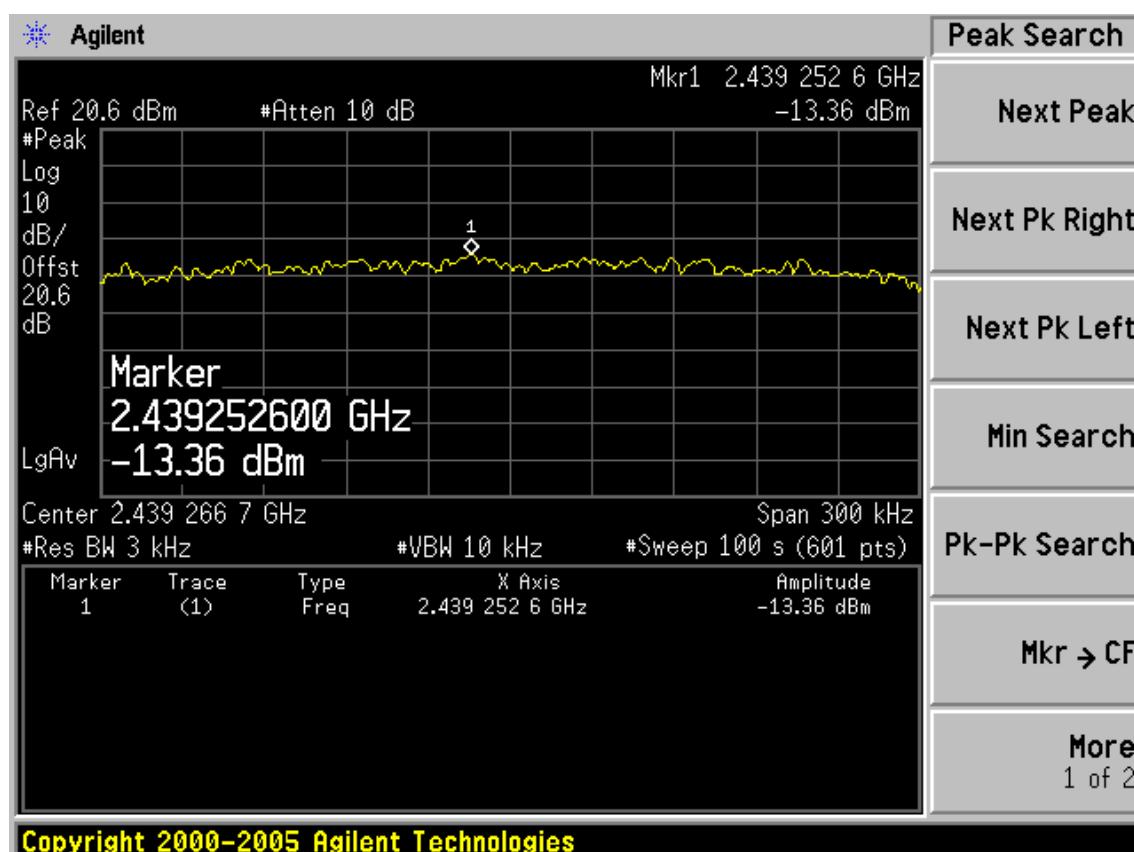
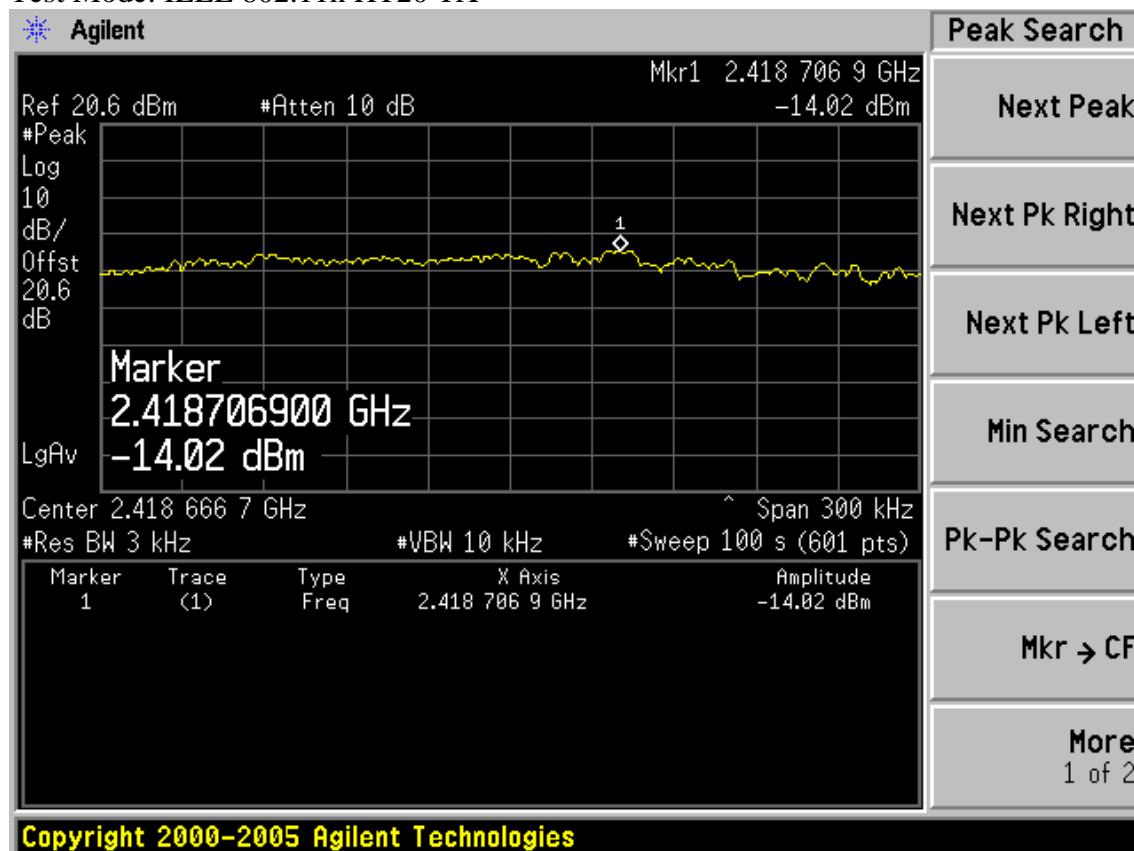


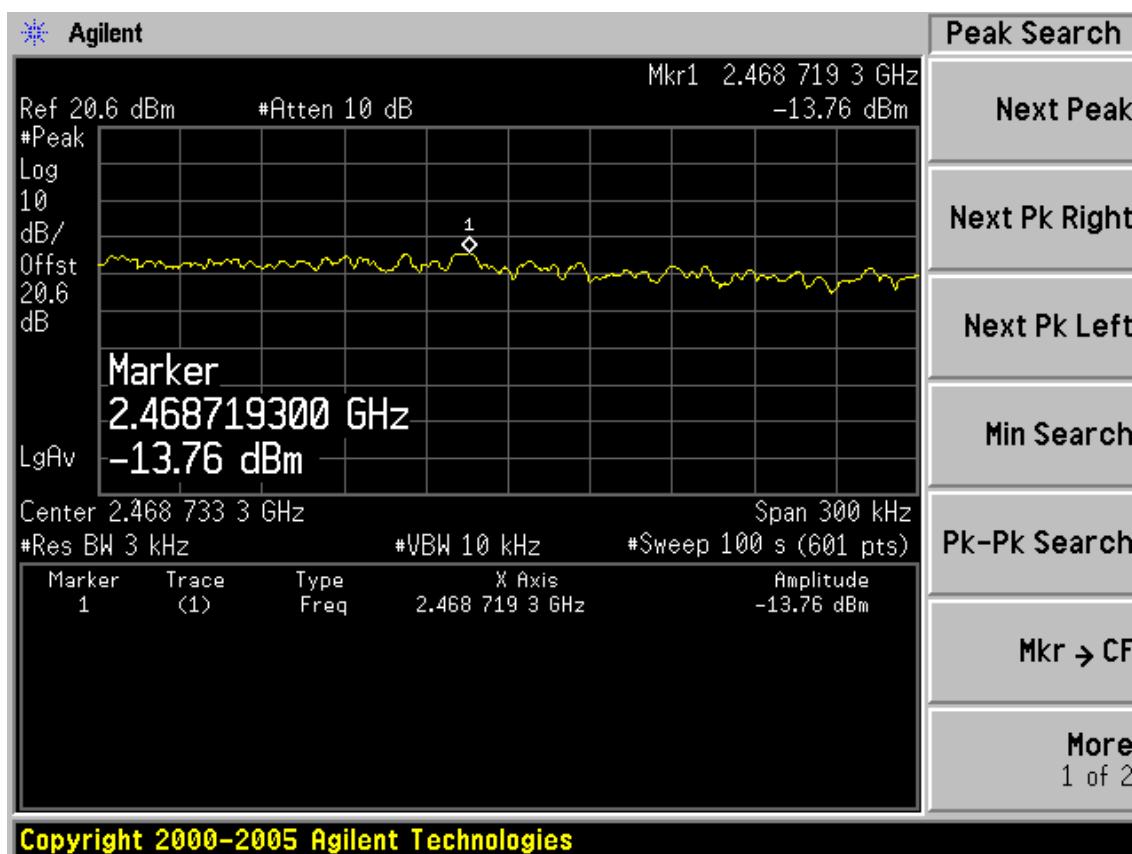
Test Mode: IEEE 802.11g TX



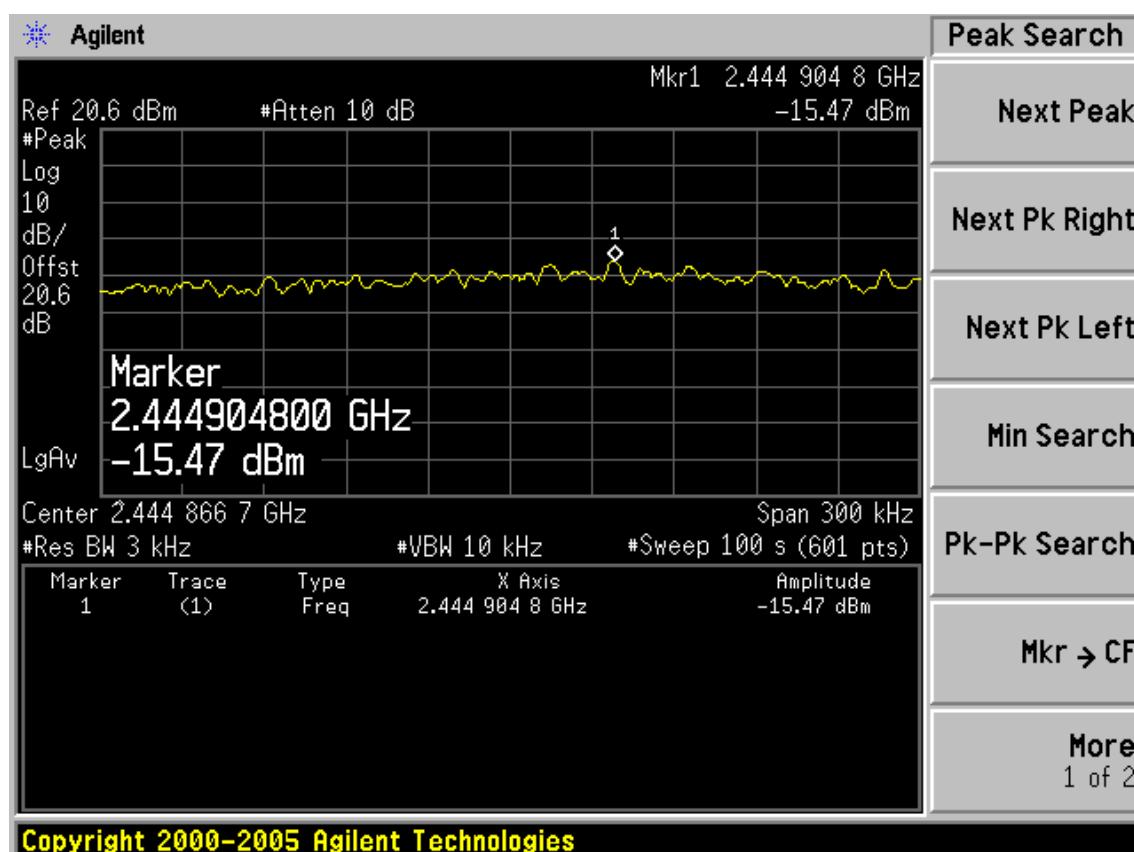
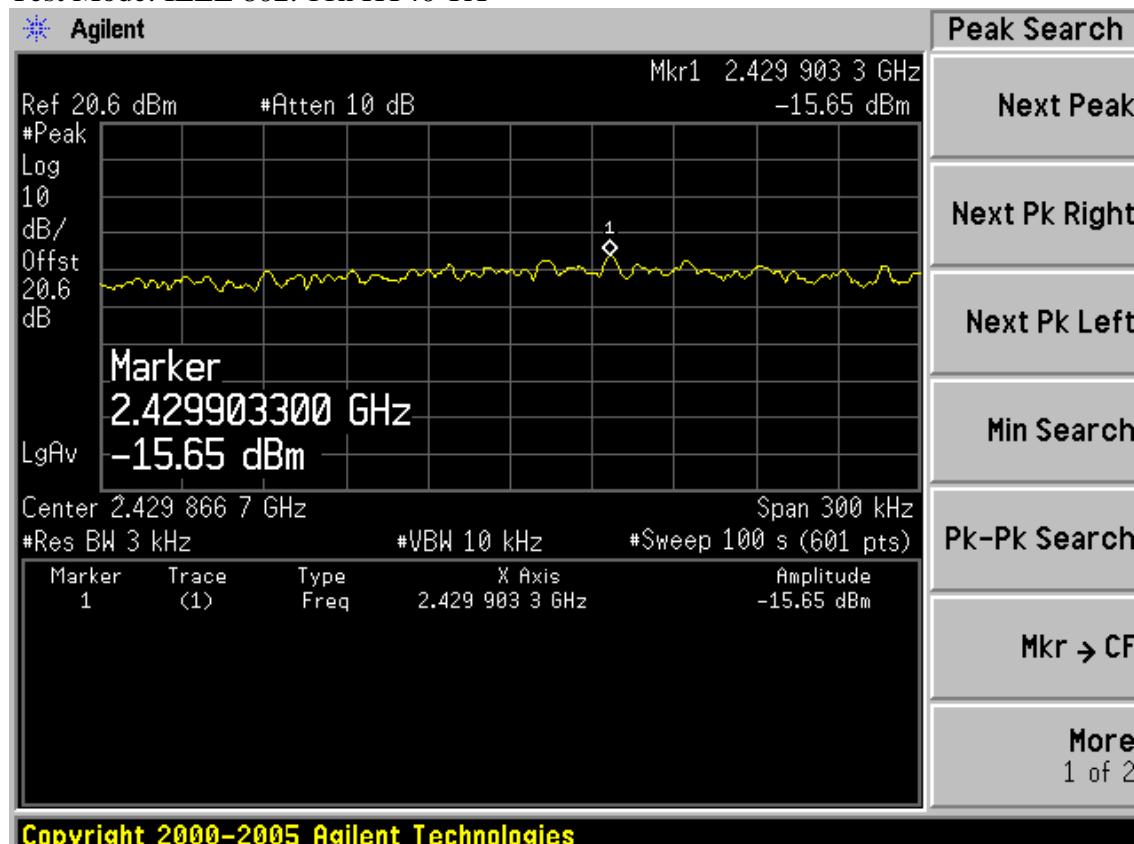


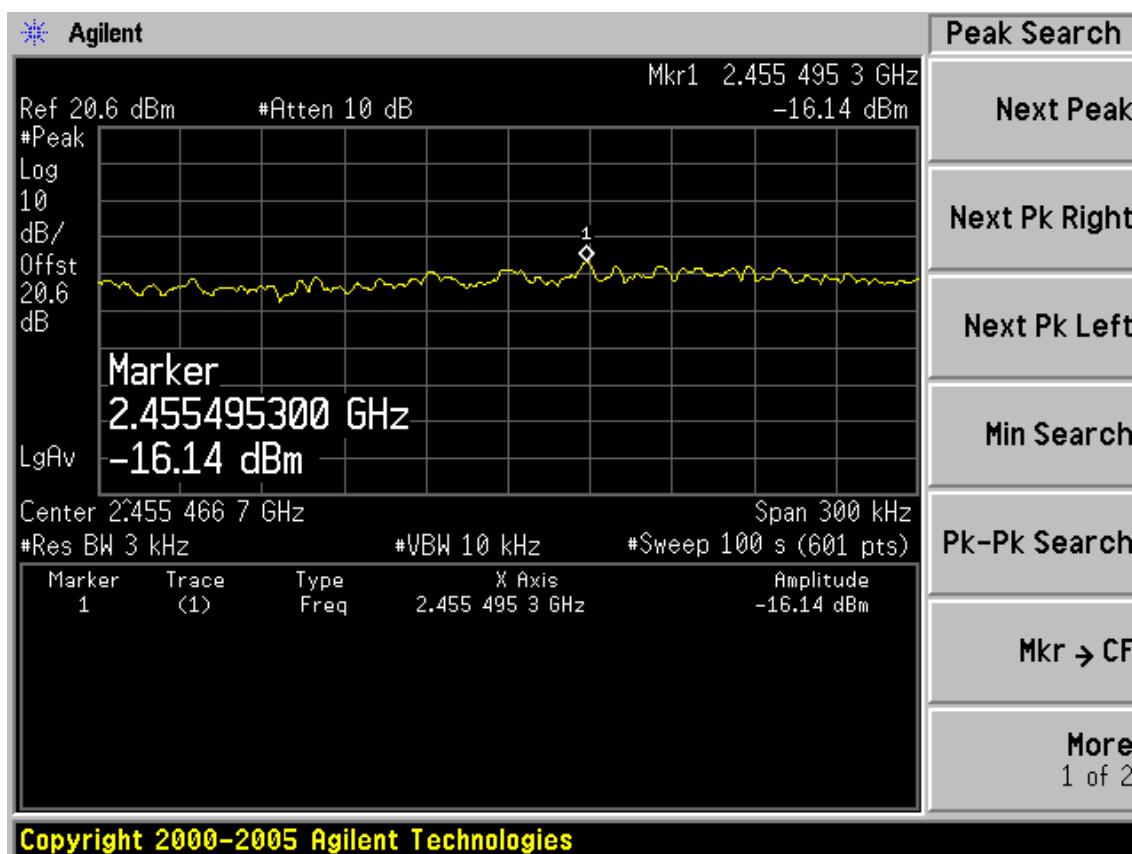
Test Mode: IEEE 802.11n HT20 TX





Test Mode: IEEE 802.11n HT40 TX





10. ANTENNA REQUIREMENTS

10.1. Limit

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.

10.2. Result

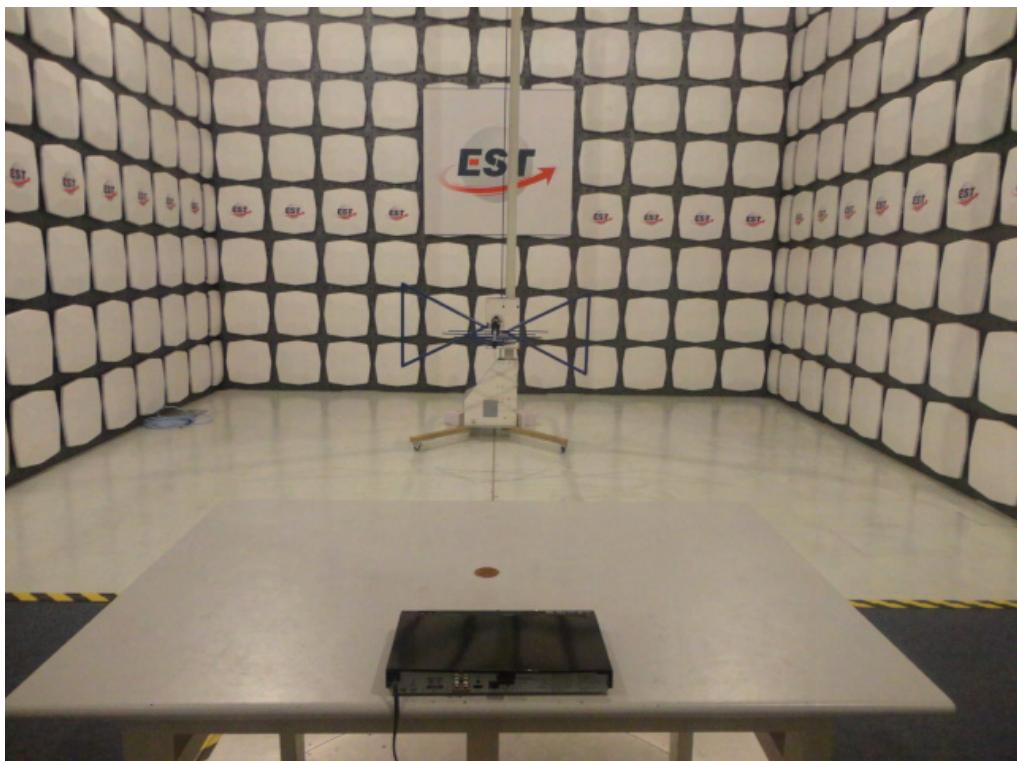
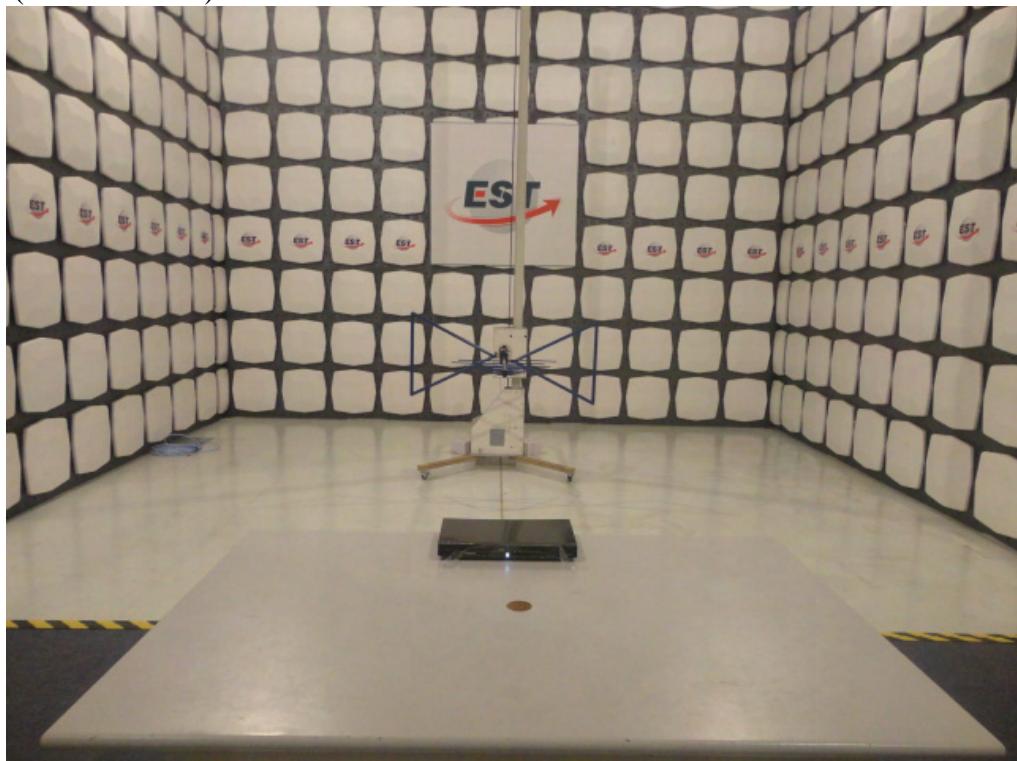
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.0 dBi.

11. TEST SETUP PHOTO

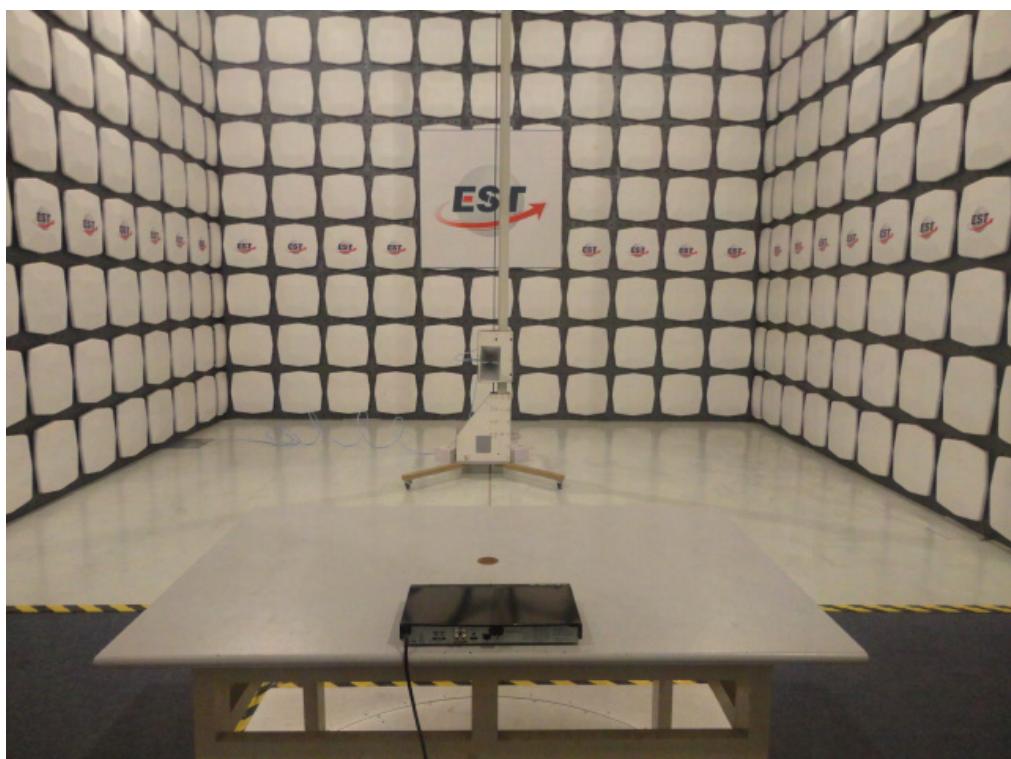
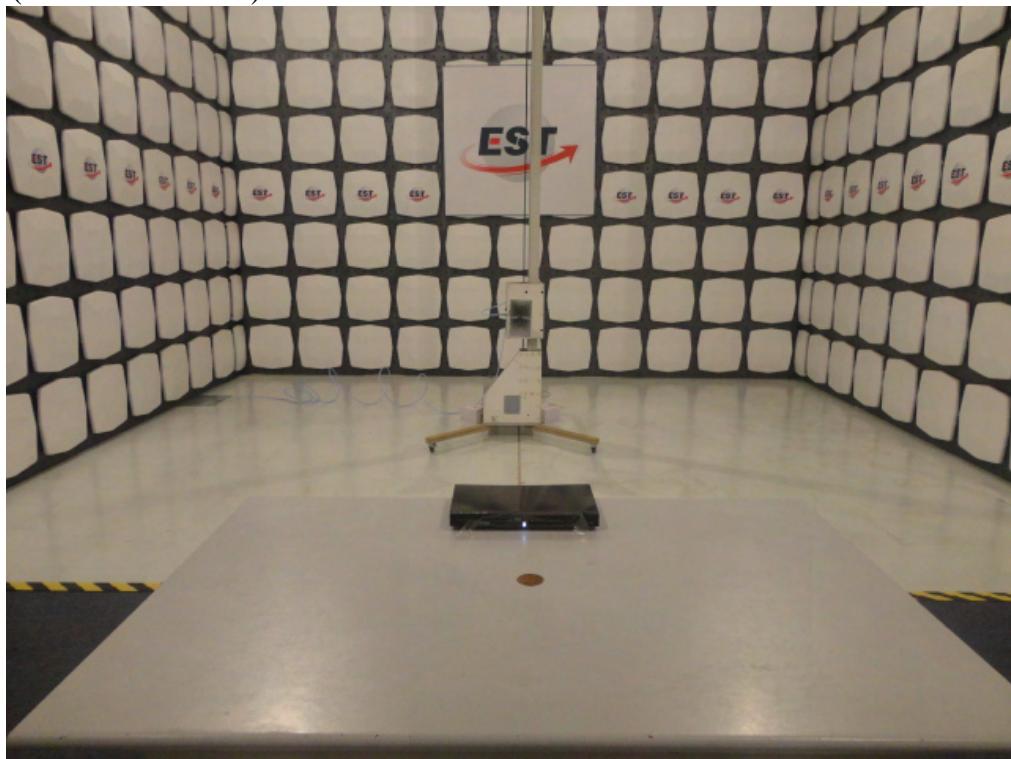
Conducted Test



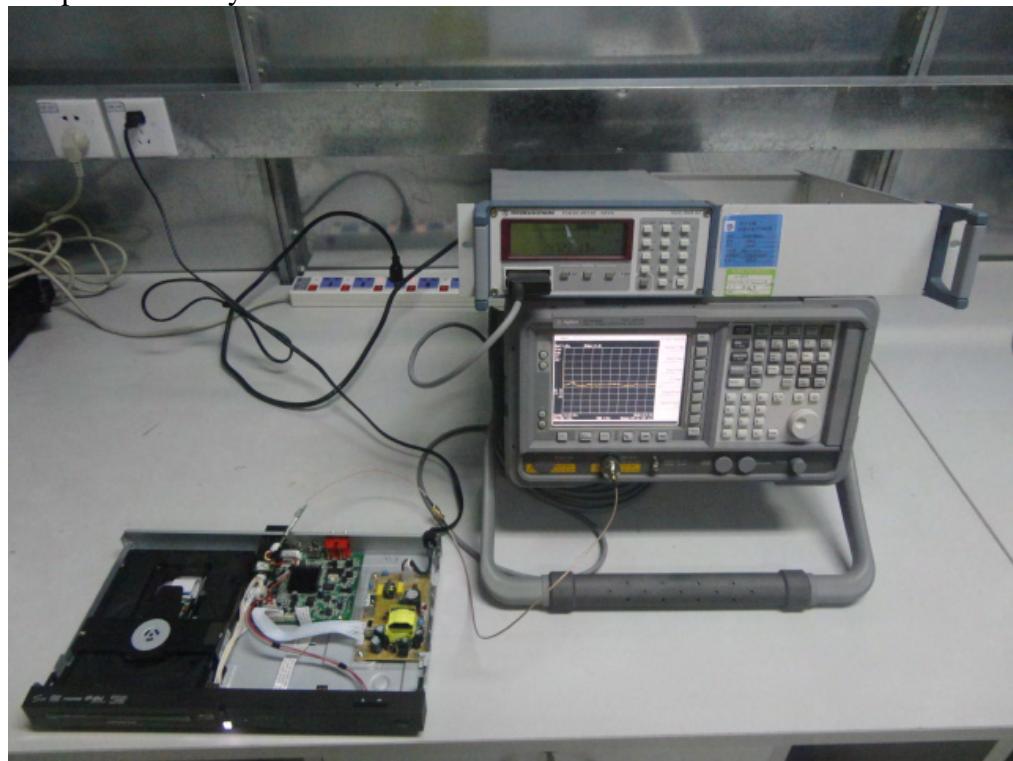
Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



connected to the spectrum analyzer

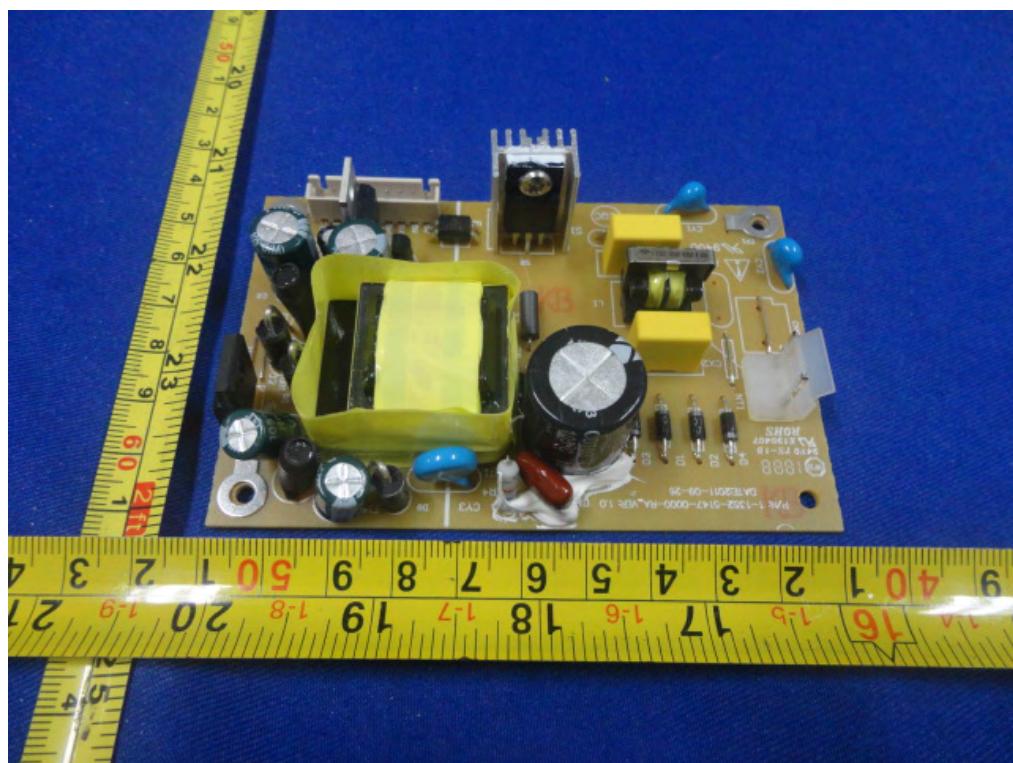
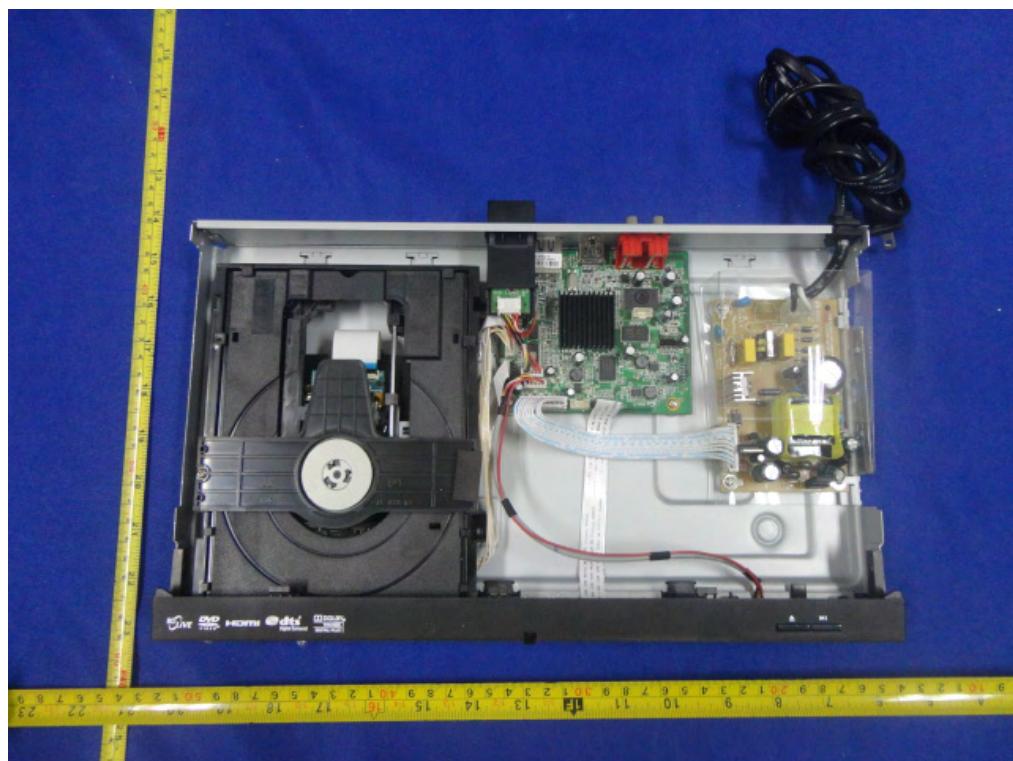


12. PHOTOS OF EUT

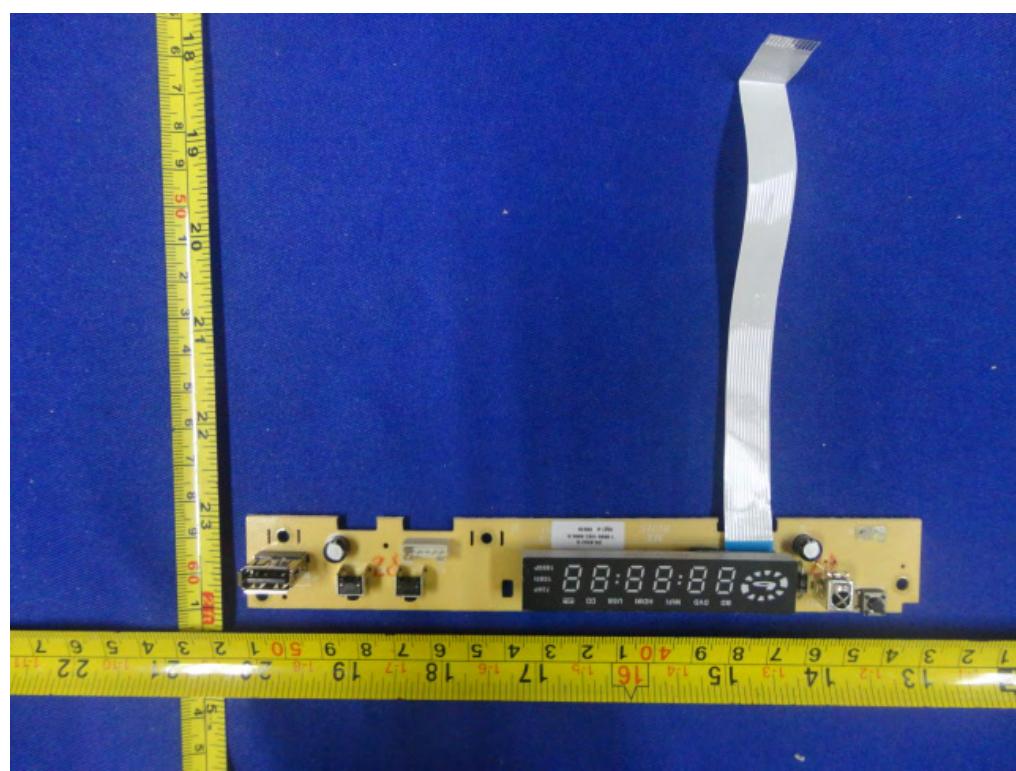
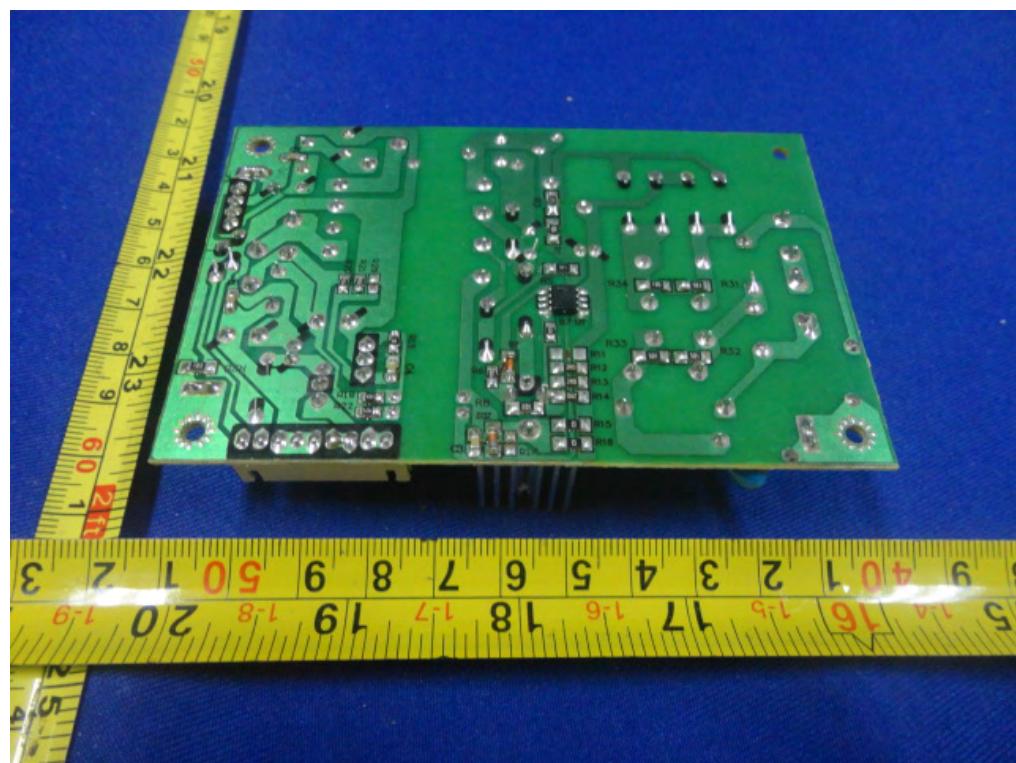
External Photos



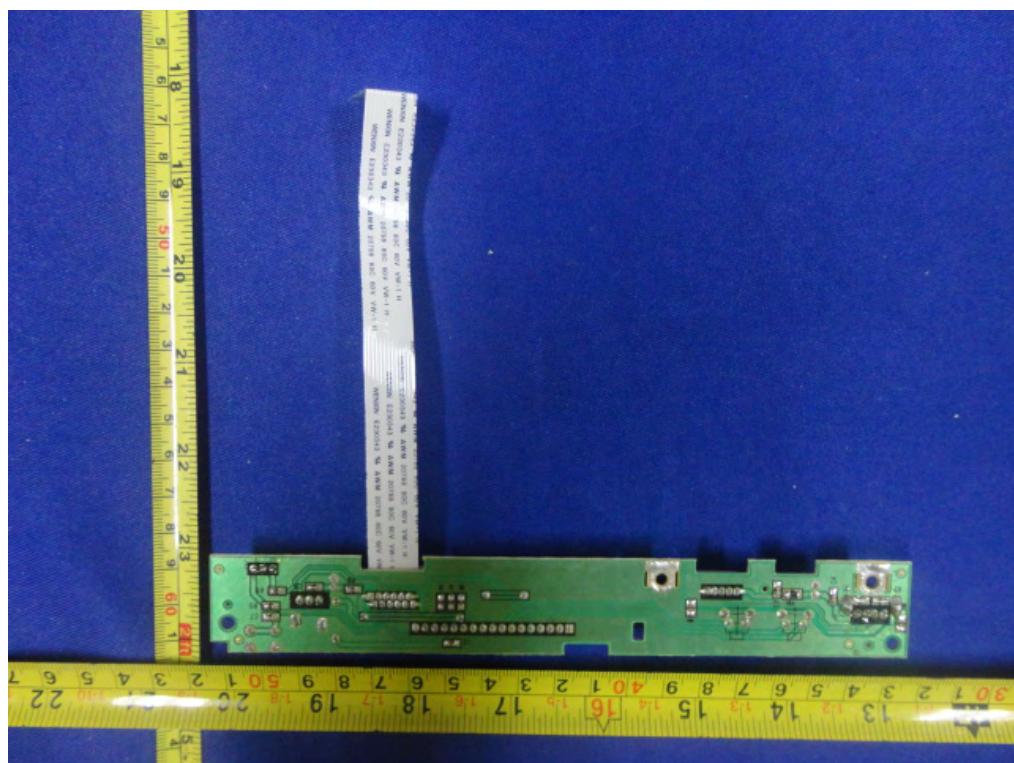
Internal Photos



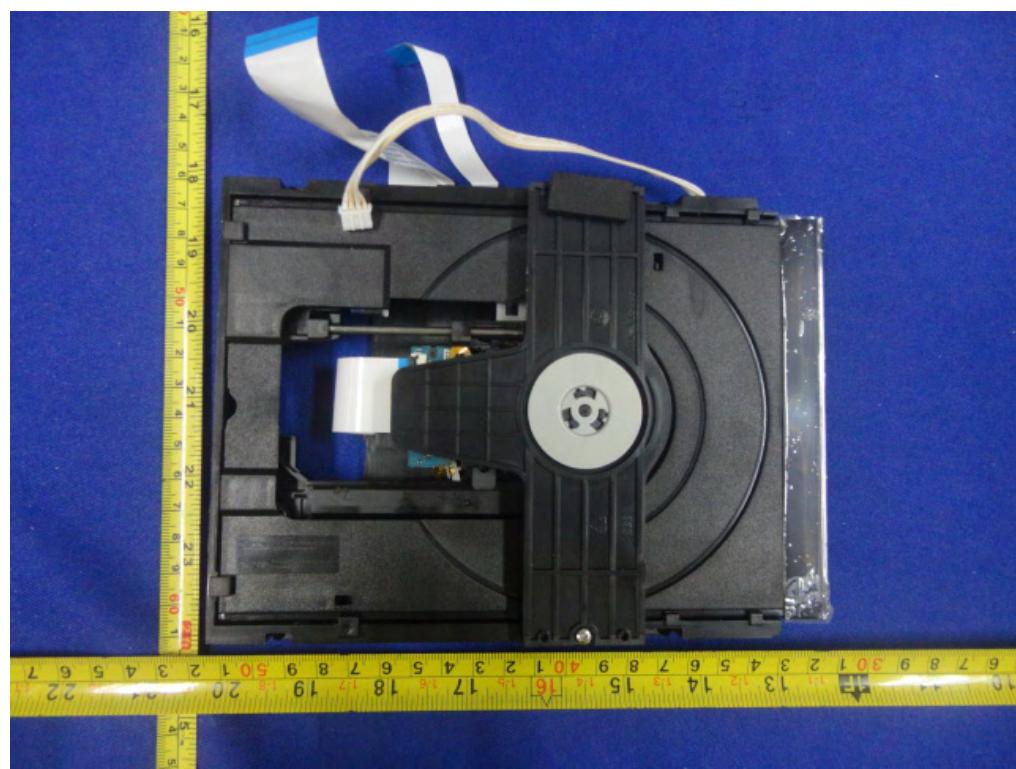
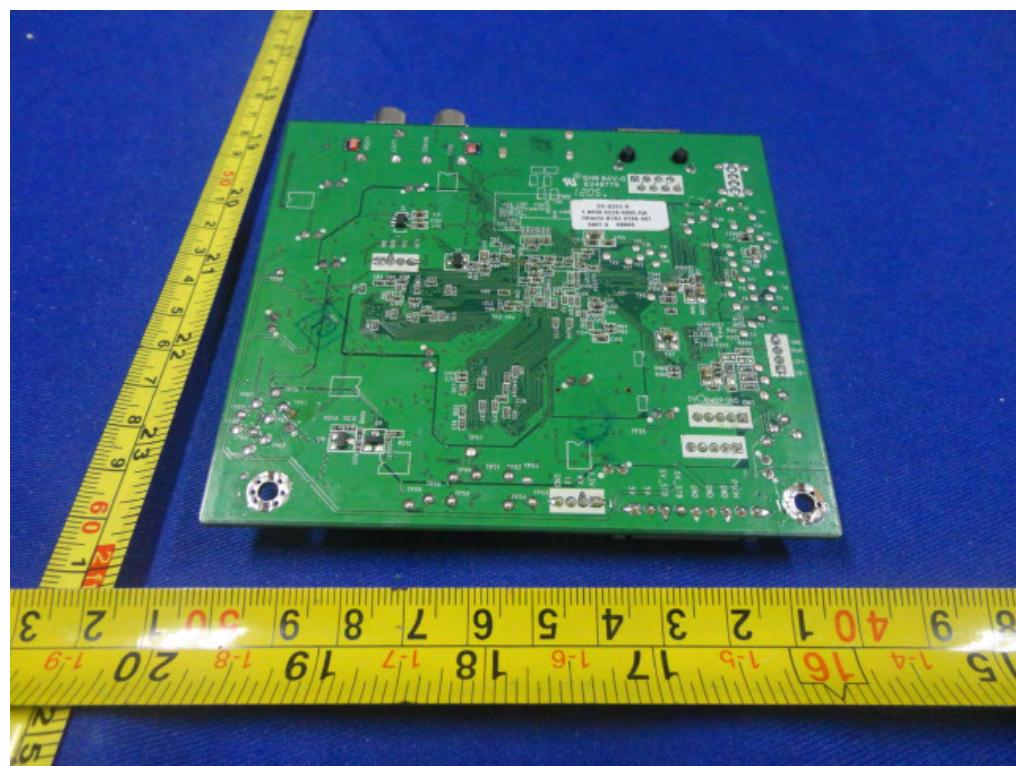
Internal Photos



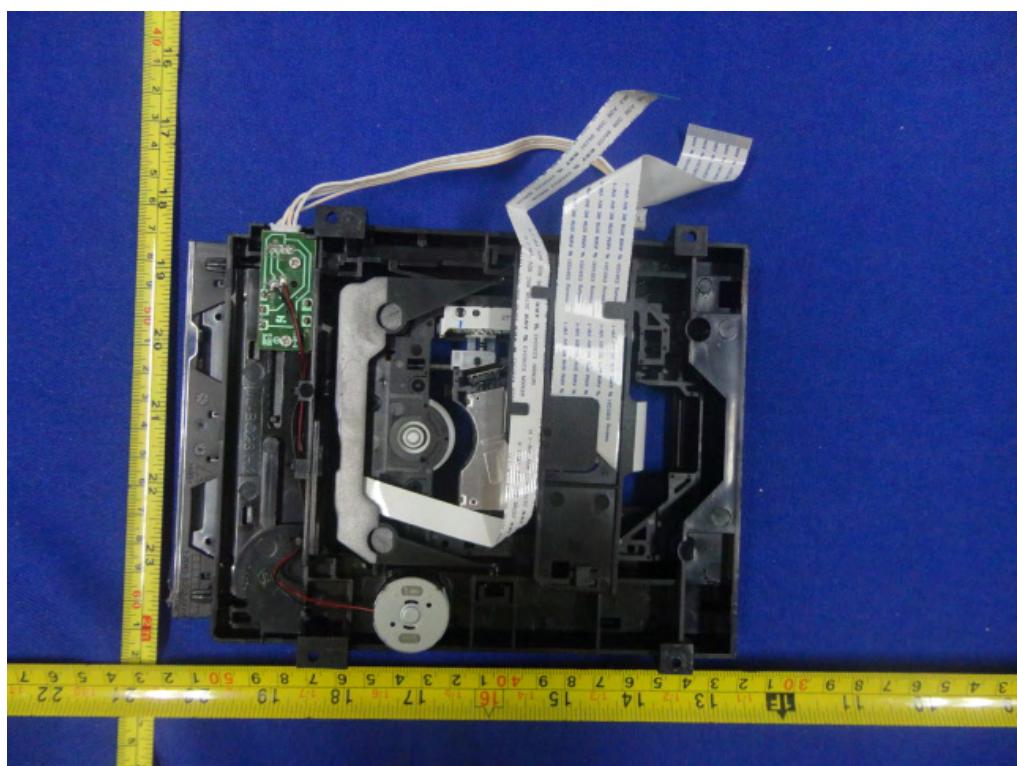
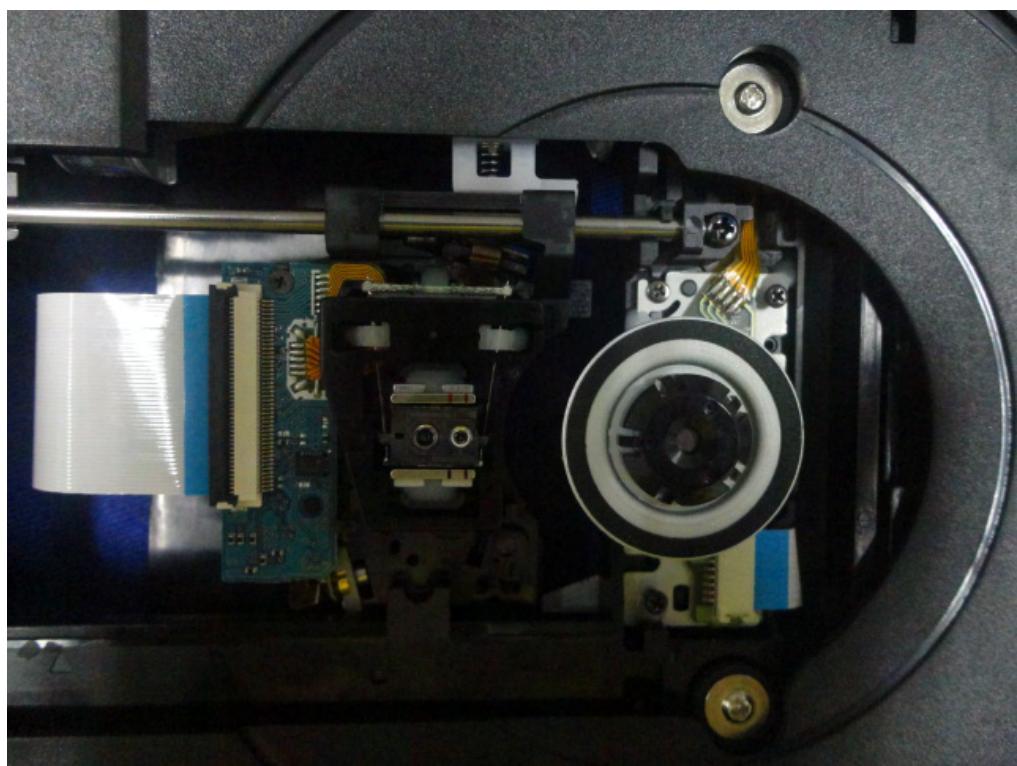
Internal Photos



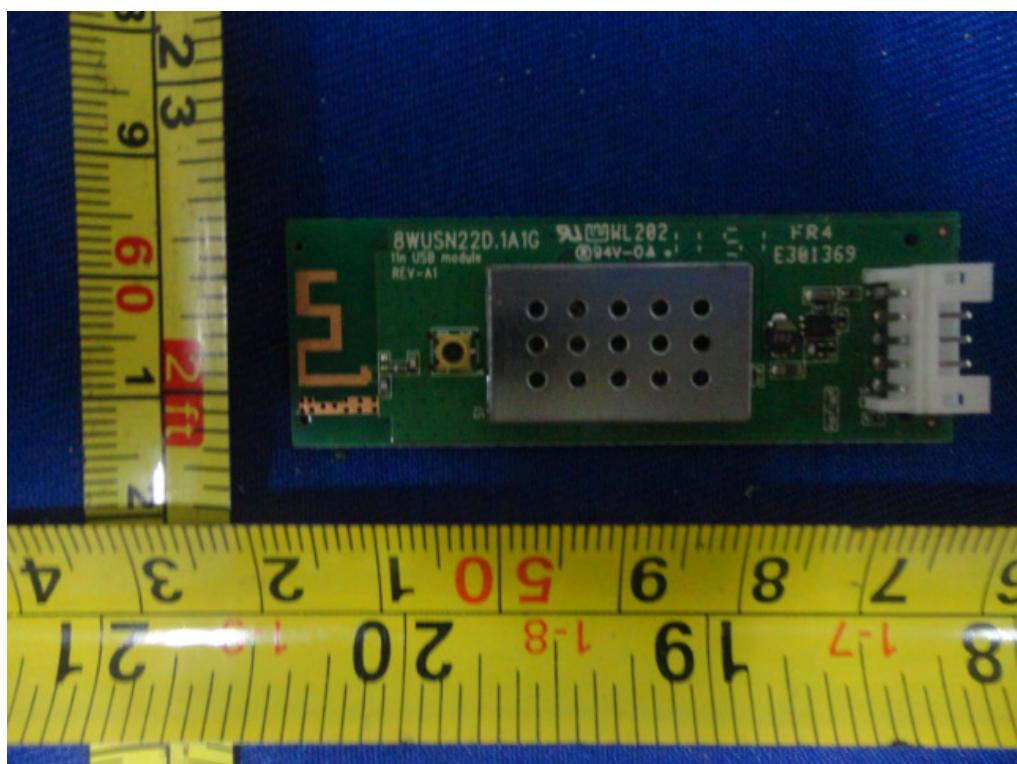
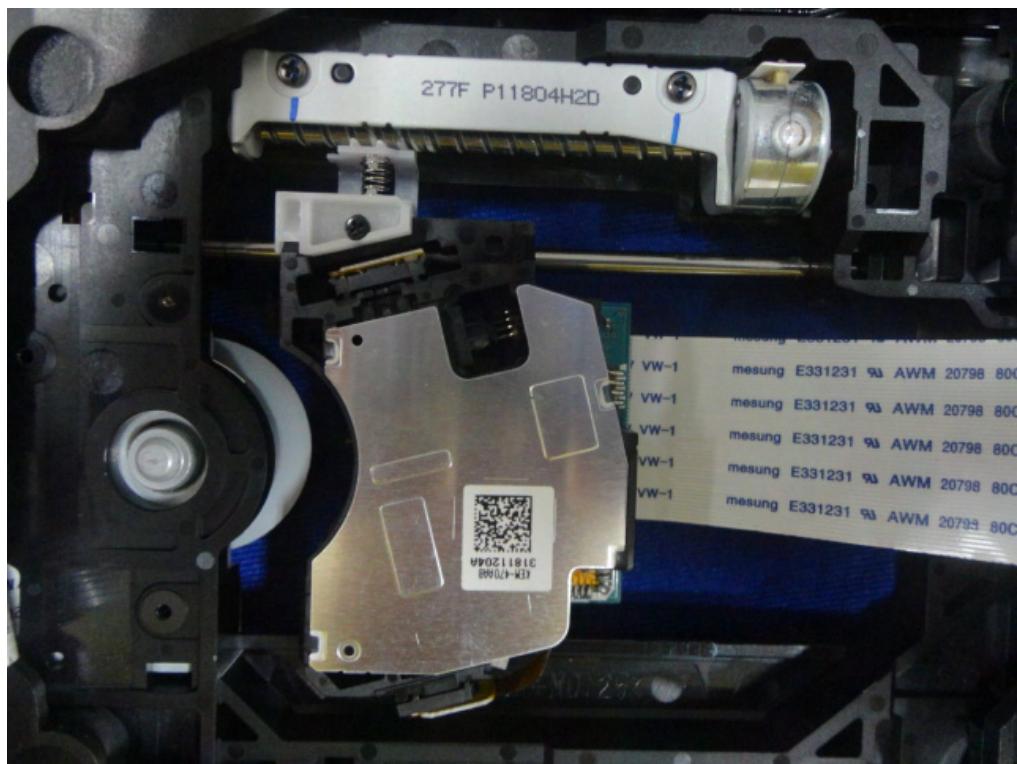
Internal Photos



Internal Photos



Internal Photos



Internal Photos

