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Application for FCC Certification On behalf of

Hisense Electric Co., Ltd.

Product Name: Sero 7 Pro

Model No.: M470BSA

FCC ID: W9HPADP0001

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

Prepared By :Audix Technology (Shanghai) Co., Ltd. 3F 34Bldg 680 Guiping Rd., Caohejing Hi-Tech Park, Shanghai 200233, China

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Report No. : ACI-F13036

Date of Test : Feb. 28 – Mar. 30, 2013

Date of Report: Mar. 31, 2013

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : Sero 7 Pro

(A) Model No. : M470BSA

(B) Test Voltage : AC 120V/60Hz,

DC 5V (USB Power)

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2012 AND ANSI C63.4-2003

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: M470BSA), which was tested on Feb. 28 – Mar. 30, 2013 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

The test results for EUT's other function are contained in No. EM-F1020201, a FCC Doc report; for EUT's Bluetooth function are contained in No. F12035, a Certification report; for EUT's UNII function are contained in No. F12037, a Certification report.

Date of Test: Feb. 28 – Mar. 30, 2013 Date of Report: Mar. 31, 2013

Producer: Lathy Wang

KATHY WANG / Assistant

Review:

For and on behalf of Audix Technology (Shanghai) Co., Ltd.

Authorized Signature EMC SAMMY CHEN/ Deputy Manager

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1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
	EMISSION		
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012	Pass	15.207
Conducted Emission	AND ANSI C63.4:2003 AND KDB558074 D01 v02	F 488	13.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.209(a) 15.205(a)(c)
6 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.247(a)(2)
Maximum Peak Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.247(b)(3)
Emission Limitations Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.247(d)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.247(d)
Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND ANSI C63.4:2003 AND KDB558074 D01 v02	Pass	15.247(e)

Audix Technology (Shanghai) Co., Ltd. Report No.: ACI-F13036

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2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : Sero 7 Pro

Type of EUT : ☑ Production ☐ Pre-product ☐ Pro-type

Model Number: M470BSA

Radio Tech : IEEE 802.11b/g/n HT20 (2.4GHz)

IEEE 802.11a/n HT20 (5.8GHz)

Freq. Band : $2412MHz \sim 2462MHz$ (Ch1- Ch11) for 802.11b/g/n

5745MHz ~ 5805MHz (Ch149, Ch153, Ch157, Ch161)

for 802.11a/n

Tested Freq. : for 802.11b/g/n 2.4GHz:

2412MHz (Ch1), 2437MHz (Ch6), 2462MHz (Ch11)

for 802.11a/n 5.8GHz:

5745MHz (Ch149), 5785MHz (Ch157), 5805MHz

(Ch161)

Modulation : DSSS for 802.11b

OFDM for 802.11a/g/n HT20

Transmit : 802.11a: 6, 9, 12, 24, 36, 48, 54 Mbps

data rate 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 24, 36, 48, 54 Mbps

802.11n HT20:

(MCS0-MCS7) 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps

After testing, the highest peak output power of the EUT was at **6 Mbps** in 802.11a mode, **1 Mbps** in 802.11b mode, **6 Mbps** in 802.11g mode, **6.5 Mbps** (MCS0) in

802.11n HT20 mode.

So data rate mentioned above were representative

selected to test in this report.

Antenna Gain : 2.77 dBi for 2.4GHz

3.28 dBi for 5.8GHz

Adapter : Manufacturer : Meic

Model Number : MN-A110-L120

Input : $100-240V \sim$, 50/60Hz 0.3A max

Output : 5V = 2A

USB cable : Shielded, Detachable, 1.2m

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Applicant : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

Manufacturer : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

2.2 Description of Test Facility

Site Description : Sept. 17, 1998 file on (Semi-Anechoic Chamber) Mar 16, 2012 Renewed

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3 F 34 Bldg 680 Guiping Rd.,

Caohejing Hi-Tech Park, Shanghai 200233, China

FCC registration Number : 91789

Accredited by NVLAP, Lab Code: 200371-0

2.3 Measurement Uncertainty

Conducted Emission Expanded Uncertainty : U = 3.42 dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.14dB (Horizontal)

U = 4.28dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):

U = 4.18dB (Horizontal)

U = 4.26dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):

U= 4.50 dB (Horizontal)

U= 4.16 dB (Vertical)

6 dB Bandwidth Expanded Uncertainty : U = 0.05 kHzMaximum Peak Output Power Expanded Uncertainty: U = 0.30 dBmEmission Limitations Expanded Uncertainty : U = 0.15 dBBand Edge Expanded Uncertainty : U = 0.15 dBPower Spectral Density Expanded Uncertainty : U = 0.15 dB Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 8 of 111

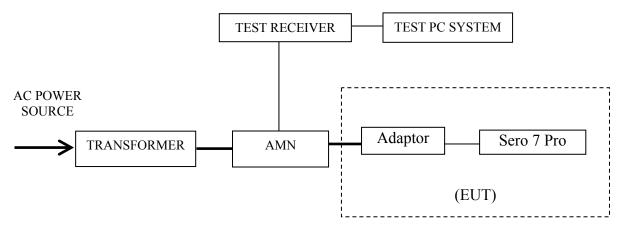
3 CONDUCTED EMISSION TEST

3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	100841	Mar 22, 2012	Mar 22, 2013
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Feb 25, 2013	Feb 25, 2014
3.	50Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 18, 2012	Mar 18, 2013
4.	Software	Audix	E3	SET00200 9804M592	-1	

3.2 Block Diagram of Test Setup



: Signal Line: Power Line

3.3 Conducted Emission Limits [FCC Part 15 Subpart C 15.207]

Frequency Range	Conducted Limit (dBµV)						
(MHz)	Quasi-peak	Average					
0.15 ~ 0.5	66~56*	56~46*					
0.5 ~ 5	56	46					
5 ~ 30	60	50					
NOTE – *Decreases with the logarithm of the frequency.							

3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

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3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the EUT on the test mode (Transmitting), and then test.

3.6 Test Procedures

The EUT was connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

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

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

NOTE 1 - Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.

NOTE 4 – The worst emission is detected at 0.332 MHz (QP Value) with corrected signal level of 38.23 dB (μ V) (limit is 59.14 dB (μ V)), when the Neutral of the EUT is connected to AMN.

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EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 44%RH

Test Mode : ____ Transmitting Date of Test : Mar. 13, 2013

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.152	33.78	0.23	34.01	65.91	31.90	
	0.325	33.72	0.30	34.02	59.57	25.55	
	0.759	30.26	0.21	30.47	56.00	25.53	QP
	2.088	28.45	0.39	28.84	56.00	27.16	Qr
	5.221	21.26	0.50	21.76	60.00	38.24	
Line	13.695	27.83	0.83	28.66	60.00	31.34	
Line	0.152	23.50	0.23	23.73	55.91	32.18	
	0.325	23.70	0.30	24.00	49.57	25.57	
	0.759	20.41	0.21	20.62	46.00	25.38	AV
	2.088	18.50	0.39	18.89	46.00	27.11	AV
	5.221	11.51	0.50	12.01	50.00	37.99	
	13.695	17.40	0.83	18.23	50.00	31.77	
	0.151	34.08	0.13	34.21	65.96	31.75	
	0.332	38.09	0.14	38.23	59.40	21.17	
	0.844	31.24	0.22	31.46	56.00	24.54	OD
	2.033	28.85	0.17	29.02	56.00	26.98	QP
	5.221	23.48	0.42	23.90	60.00	36.10	
Neutral	13.551	29.04	0.70	29.74	60.00	30.26	
Neuman	0.151	24.80	0.13	24.93	55.96	31.03	
	0.332	27.26	0.14	27.40	49.40	22.00	
	0.844	21.30	0.22	21.52	46.00	24.48	AV
	2.033	18.20	0.17	18.37	46.00	27.63	AV
	5.221	13.21	0.42	13.63	50.00	36.37	
	13.551	19.20	0.70	19.90	50.00	30.10	

TEST ENGINEER: JOE YE

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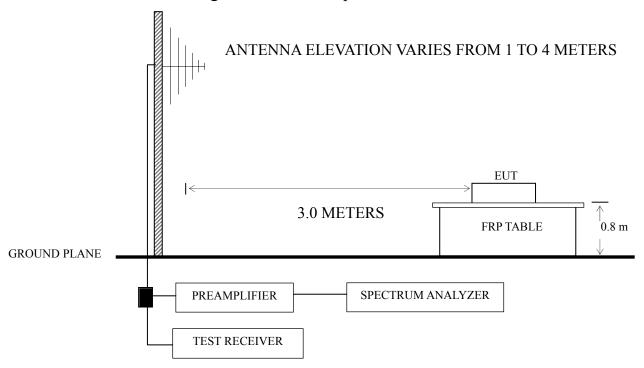
4 RADIATED EMISSION TEST

4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2013	Sep 18, 2013
2.	Preamplifier	HP	8449B	3008A00864	Apr 29, 2012	Apr 29, 2013
3.	Spectrum Analyzer	Agilent	E4447A	MY45300136	Jan 05, 2013	Jan 05, 2014
4.	Test Receiver	R&S	ESVS10	844594/001	Mar 22, 2013	Mar 22, 2014
5.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 03, 2012	May 03, 2013
6.	Horn Antenna	EMCO	3115	9607-4878	May 03, 2012	May 03, 2013
7.	Horn Antenna	EMCO	3116	00062643	Jul 21, 2012	Jul 21, 2013
8.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2013	Sep 18, 2013
9.	Software	Audix	E3	SET00200 9912M295-2		

4.2 Block Diagram of Test Setup



■ : 50 ohm Coaxial Switch

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4.3 Radiated Emission Limit [FCC Part 15 Subpart C 15.209]

Frequency	Distance	Field strength limits (μV/m)			
(MHz)	(m)	(µV/m)	$dB(\mu V/m)$		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
Above 960	3	500	54.0		

- NOTE 1 Emission Level dB (μ V/m) = 20 log Emission Level (μ V/m)
- NOTE 2 The tighter limit applies at the band edges.
- NOTE 3 Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- NOTE 4 The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.
- NOTE 5 Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

4.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.3.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

4.5 Operating Condition of EUT

- 4.5.1 Setup the EUT as shown in Sec. 3.2.
- 4.5.2 Turn on the power of all equipment.
- 4.5.3 Turn the EUT on the test mode, and then test.

4.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

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The EUT was placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of the VBW was set at 1MHz and RBW was set at 1MHz for peak emission measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emission above 1GHz for Spectrum Agilent E7405A.

The frequency range from 30 MHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked for 2.4 GHz band, 30 MHz to 40 GHz was checked for 5.8 GHz band

The EUT was tested under the following test modes:

Mode	Operation	Channel
1.		01
2.		06
3.	Tuonamittina	11
4.	Transmitting	149
5.		157
6.		161
7.	Receiving	
8.	Transmitting	01
9.	Band-Edge	11

All the test results are listed in Sec.4.7.

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4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

No.	Operation	Modulation	Channel	Channel Frequency		Page	
1.	W	orst case emis	sion < 1GF	Ηz	P1	.5	
2.			01	2412 MHz			
3.		802.11b	06	2437 MHz	P1	.6	
4.			11	2462 MHz			
5.			01	2412 MHz			
6.		802.11g	06	2437 MHz	P1	.7	
7.			11	2462 MHz			
8.	Transmitting	802.11n	01	2412 MHz			
9.		HT20	06	2437 MHz	P18		
10.		11120	11	2462 MHz			
11.		802.11a	149	5745 MHz	P19		
12.			157	5785 MHz			
13.			161	5805 MHz			
14.			149	5745 MHz			
15.		802.11n	157	5785 MHz	P2	20	
16.		HT20	161	5805 MHz			
17.	Receiving				P2	21	
19.		802.11b	01	2412 MHz		P22-25	
20.	Transmitting	802.110	11	2462 MHz		P26-29	
21.		802.11g	01	2412 MHz	Restricted	P30-33	
22.		002.11g	11	2462 MHz	BandEdge	P34-37	
23.		802.11n	01	2412 MHz		P38-41	
24.		HT20	11	2462 MHz		P42-45	

- NOTE 1 Level = Read Level + Antenna Factor + Cable Loss (<1GHz)
- NOTE 2 Level = Read Level + Antenna Factor + Cable Loss Preamp Factor (>1GHz)
- NOTE 3 EUT configured in Lying, Side & Stand direction were all evaluated. The emission levels recorded below is data of EUT configured in **Lying** direction, for Lying direction was the maximum emission direction during the test.
- NOTE 4 All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

 For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- NOTE 5 For emission > 1GHz, except the reported emissions, no other emissions were detected above the system noise floor.

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Worst case emission < 1GHz

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : Transmitting Date of Test : Mar 30, 2013

2.4GHz Band

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	45.52	15.09	9.32	0.82	25.23	40.00	14.77	
	100.81	13.26	10.58	1.35	25.19	43.50	18.31	
Horizontal	166.77	18.29	8.40	1.75	28.44	43.50	15.06	OD
Попідопіаї	351.07	14.69	14.83	2.63	32.15	46.00	13.85	QP
	476.20	11.94	17.80	2.92	32.66	46.00	13.34	
	884.57	8.55	19.65	4.32	32.52	46.00	13.48	
	55.22	18.96	6.08	0.87	25.91	40.00	14.09	
	128.94	15.29	11.82	1.53	28.64	43.50	14.86	
Vertical	221.09	15.86	8.37	2.06	26.29	46.00	19.71	OD
Vertical	294.81	13.02	12.60	2.52	28.14	46.00	17.86	QP
	476.20	9.69	17.80	2.92	30.41	46.00	15.59	
	718.70	6.76	19.42	3.56	29.74	46.00	16.26	

5.8GHz Band

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	45.52	14.88	9.32	0.82	25.02	40.00	14.98	
	100.81	12.83	10.58	1.35	24.76	43.50	18.74	
Horizontal	166.77	17.04	8.40	1.75	27.19	43.50	16.31	ΩD
попиона	351.07	14.45	14.83	2.63	31.91	46.00	14.09	QP
	476.20	10.78	17.80	2.92	31.50	46.00	14.50	
	714.82	6.73	19.55	3.56	29.84	46.00	16.16	
	55.22	18.47	6.08	0.87	25.42	40.00	14.58	
	105.66	17.45	11.40	1.38	30.23	43.50	13.27	
Vertical	294.81	13.35	12.60	2.52	28.47	46.00	17.53	ΩD
vertical	431.58	7.09	17.55	2.78	27.42	46.00	18.58	QP
	582.90	7.00	18.78	3.18	28.96	46.00	17.04	
	717.73	6.46	19.42	3.56	29.44	46.00	16.56	

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Radiated Emission > 1GHz

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : 802.11b Transmitting Date of Test : Mar 30, 2013

Ch01

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	4824.00	52.07	30.00	9.07	35.04	56.10	74.00	17.90	Peak
Horizontal	4824.00	48.03	30.00	9.07	35.04	52.06	54.00	1.94	Average
Попиона	7236.00	47.29	35.05	10.63	34.53	58.44	74.00	15.56	Peak
	7236.00	38.66	35.05	10.63	34.53	49.81	54.00	4.19	Average
Vertical	4824.00	45.92	30.00	9.07	35.04	49.95	74.00	24.05	Peak
vertical	4824.00	41.25	30.00	9.07	35.04	45.28	54.00	8.72	Average

Ch06

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB $(\mu V/m)$	Margin (dB)	Remark
	4874.00	52.34	29.89	9.11	35.02	56.32	74.00	17.68	Peak
Horizontal	4874.00	47.46	29.89	9.11	35.02	51.44	54.00	2.56	Average
Попідопіаї	7311.00	47.09	35.27	10.80	34.53	58.63	74.00	15.37	Peak
	7311.00	37.71	35.27	10.80	34.53	49.25	54.00	4.75	Average
Vertical	4874.00	46.15	29.89	9.11	35.02	50.13	74.00	23.87	Peak
vertical	4874.00	41.35	29.89	9.11	35.02	45.33	54.00	8.67	Average

Ch11

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	4924.00	52.62	29.76	9.16	34.99	56.55	74.00	17.45	Peak
Horizontal	4924.00	48.27	29.76	9.16	34.99	52.20	54.00	1.80	Average
Попідопіаї	7386.00	46.15	35.56	11.05	34.53	58.23	74.00	15.77	Peak
	7386.00	37.38	35.56	11.05	34.53	49.46	54.00	4.54	Average
Vertical	4924.00	45.71	29.76	9.16	34.99	49.64	74.00	24.36	Peak
Vertical	4924.00	41.70	29.76	9.16	34.99	45.63	54.00	8.37	Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 17 of 111

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : 802.11g Transmitting Date of Test : Mar 30, 2013

Ch01

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	4824.00	55.34	30.00	9.07	35.04	59.37	74.00	14.63	Peak
II	4824.00	39.81	30.00	9.07	35.04	43.84	54.00	10.16	Average
Horizontal	7236.00	58.25	35.05	10.63	34.53	69.40	74.00	4.60	Peak
	7236.00	39.92	35.05	10.63	34.53	51.07	54.00	2.93	Average
Vertical	4824.00	43.45	30.00	9.07	35.04	47.48	74.00	26.52	Peak
vertical	4824.00	27.50	30.00	9.07	35.04	31.53	54.00	22.47	Average

Ch06

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	$\begin{array}{c} Limits \\ dB \\ (\mu V/m) \end{array}$	Margin (dB)	Remark
	4874.00	50.43	29.89	9.11	35.02	54.41	74.00	19.59	Peak
Horizontal	4874.00	34.08	29.89	9.11	35.02	38.06	54.00	15.94	Average
Пописона	7311.00	55.50	35.27	10.80	34.53	67.04	74.00	6.96	Peak
	7311.00	38.26	35.27	10.80	34.53	49.80	54.00	4.20	Average
Vertical	4874.00	44.18	29.89	9.11	35.02	48.16	74.00	25.84	Peak
Vertical	4874.00	28.21	29.89	9.11	35.02	32.19	54.00	21.81	Average

Ch11

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	4924.00	46.57	29.76	9.16	34.98	50.51	74.00	23.49	Peak
Horizontal	4924.00	30.24	29.76	9.16	34.98	34.18	54.00	19.82	Average
Попідопіаї	7386.00	52.45	35.56	11.05	34.53	64.53	74.00	9.47	Peak
	7386.00	34.59	35.56	11.05	34.53	46.67	54.00	7.33	Average
Vertical	7386.00	47.69	35.78	11.30	34.52	60.25	74.00	13.75	Peak
vertical	7386.00	30.34	35.78	11.30	34.52	42.90	54.00	11.10	Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 18 of 111

EUT : Sero 7 Pro Temperature : 25°C

Model No. : M470BSA Humidity : 45%RH

Test Mode : 802.11n Transmitting Date of Test : Mar 30, 2013

Ch01

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	4824.00	47.77	30.00	9.07	35.04	51.80	74.00	22.20	Peak
Horizontal	4824.00	34.62	30.00	9.07	35.04	38.65	54.00	15.35	Average
Попідопіаї	7236.00	52.22	35.05	10.63	34.53	63.37	74.00	10.63	Peak
	7236.00	35.47	35.05	10.63	34.53	46.62	54.00	7.38	Average
Vertical	4824.00	44.44	30.00	9.07	35.04	48.47	74.00	25.53	Peak
vertical	4824.00	30.57	30.00	9.07	35.04	34.60	54.00	19.40	Average

Ch06

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB $(\mu V/m)$	Margin (dB)	Remark
	4874.00	47.62	29.89	9.11	35.02	51.60	74.00	22.40	Peak
Horizontal	4874.00	33.31	29.89	9.11	35.02	37.29	54.00	16.71	Average
Попідопіаї	7311.00	52.28	35.34	10.80	34.53	63.89	74.00	10.11	Peak
	7311.00	34.82	35.34	10.80	34.53	46.43	54.00	7.57	Average
Vertical	4874.00	44.15	29.89	9.11	35.02	48.13	74.00	25.87	Peak
Vertical	4874.00	29.93	29.89	9.11	35.02	33.91	54.00	20.09	Average

Ch11

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	4924.00	51.09	29.76	9.16	34.99	55.02	74.00	18.98	Peak
Horizontal	4924.00	37.34	29.76	9.16	34.99	41.27	54.00	12.73	Average
Попідопіаї	7386.00	56.73	35.56	11.05	34.53	68.81	74.00	5.19	Peak
	7386.00	39.06	35.56	11.05	34.53	51.14	54.00	2.86	Average
Vertical	4924.00	44.04	29.76	9.16	34.99	47.97	74.00	26.03	Peak
vertical	4924.00	29.78	29.76	9.16	34.99	33.71	54.00	20.29	Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 19 of 111

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : 802.11a Transmitting Date of Test : Mar 30, 2013

Ch149

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
Horizontal	11490.00	44.87	38.10	13.20	35.35	60.82	74.00	13.18	Peak
Horizoniai	11490.00	33.15	38.10	13.20	35.35	49.10	54.00	4.90	Average
Vertical	11490.00	45.29	38.10	13.20	35.35	61.24	74.00	12.76	Peak
vertical	11490.00	34.05	38.10	13.20	35.35	50.00	54.00	4.00	Average

Ch157

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
Horizontal	11570.00	45.46	38.03	13.32	35.36	61.45	74.00	12.55	Peak
Попідопіаї	11570.00	34.31	38.03	13.32	35.36	50.30	54.00	3.70	Average
Vertical	11570.00	44.72	38.03	13.32	35.36	60.71	74.00	13.29	Peak
Vertical	11570.00	33.38	38.03	13.32	35.36	49.37	54.00	4.63	Average

Ch161

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
Horizontal	11610.00	46.02	37.99	13.32	35.37	61.96	74.00	12.04	Peak
Horizoniai	11610.00	34.22	37.99	13.32	35.37	50.16	54.00	3.84	Average
Vartical	11610.00	44.67	37.99	13.32	35.37	60.61	74.00	13.39	Peak
Vertical	11610.00	33.25	37.99	13.32	35.37	49.19	54.00	4.81	Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 20 of 111

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : 802.11n Transmitting Date of Test : Mar 30, 2013

Ch149

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
II 1	11490.00	46.68	38.10	13.20	35.35	62.63	74.00	11.37	Peak
Horizontal	11490.00	34.10	38.10	13.20	35.35	50.05	54.00	3.95	Average
Vertical	11490.00	45.21	38.10	13.20	35.35	61.16	74.00	12.84	Peak
	11490.00	33.73	38.10	13.20	35.35	49.68	54.00	4.32	Average

Ch157

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
IIi4 - 1	11570.00	45.55	38.03	13.32	35.36	61.54	74.00	12.46	Peak
Horizontal	11570.00	33.06	38.03	13.32	35.36	49.05	54.00	4.95	Average
Vertical	11570.00	45.20	38.03	13.32	35.36	61.19	74.00	12.81	Peak
	11570.00	33.48	38.03	13.32	35.36	49.47	54.00	4.53	Average

Ch161

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
TT ' 4 1	11610.00	44.50	37.99	13.32	35.37	60.44	74.00	13.56	Peak
Horizontal	11610.00	32.50	37.99	13.32	35.37	48.44	54.00	5.56	Average
Vertical	11610.00	45.14	37.99	13.32	35.37	61.08	74.00	12.92	Peak
	11610.00	33.82	37.99	13.32	35.37	49.76	54.00	4.24	Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 21 of 111

EUT : Sero 7 Pro Temperature : 25° C

Model No. : M470BSA Humidity : 45%RH

Test Mode : Receiving Date of Test : Mar 30, 2013

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
Horizontal	1221.00	52.80	24.63	5.20	37.69	44.94	74.00	29.06	
	3720.00	44.68	31.70	8.32	35.45	49.25	74.00	24.75	Peak
Попідопіаї	6032.00	44.24	32.63	9.14	34.60	51.41	74.00	22.59	
	1221.00	52.80	24.63	5.20	37.69	44.94	74.00	29.06	
	1680.00	54.80	27.61	5.97	36.54	51.84	74.00	22.16	
Vertical	3924.00	44.09	32.44	8.44	35.41	49.56	74.00	24.44	Peak
vertical	5539.00	44.12	33.44	8.68	34.74	51.50	74.00	22.50	reak
	1680.00	54.80	27.61	5.97	36.54	51.84	74.00	22.16	

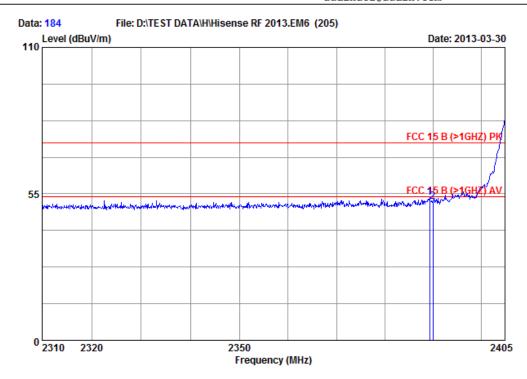
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Radiated Band Edge measurement:

For 802.11b Ch01:



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Site no : Audix ACI (3m Chamber) Data no. : 184

Dis. / Ant. : 3m /EMCO 3115

Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

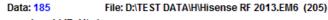
Test Mode : WIFI B1

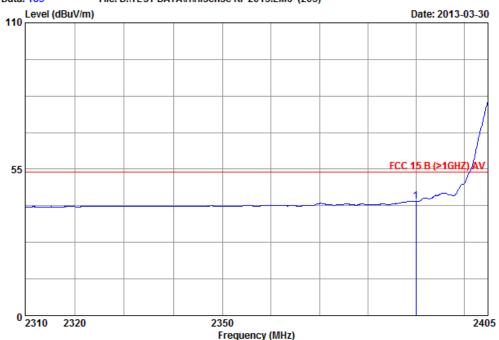
Freq	 Factor	Loss	_	Emission Level (dBuV/m)	_	Remark
1 2389.254 2 2389.968	 35.95 35.95		54.49 52.71	53.76 51.98	 20.24	Peak Peak

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Site no : Audix ACI (3m Chamber) Data no. : 185

Dis. / Ant. : 3m /EMCO3115 2012-05-03

: FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL Limit

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B1

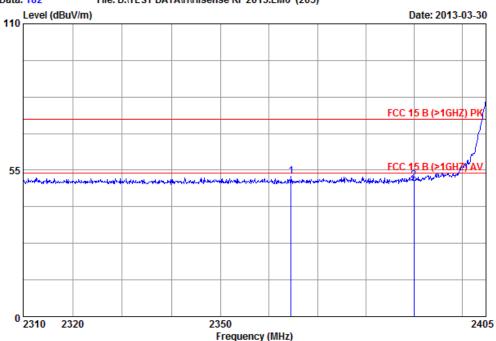
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark Factor Factor Loss Level $(MHz) \quad (dB/m) \qquad (dB) \qquad (dBuV) \qquad (dBuV/m) \quad (dBuV/m) \quad (dB)$ 1 2389.968 28.80 35.95 6.42 43.62 42.89 54.00 11.11 Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 24 of 111



Audix Technology (Shanghai) Co., Ltd. 3F #34Bldg. No.680 GuiPing Rd., CaoHeJing Hi-Tech Park, Shanghai 200233, China Tel:+86-21-64955500 Fax:+86-21-64955491 audixaci@audix.com





Site no : Audix ACI (3m Chamber) Data no. : 182

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B1

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

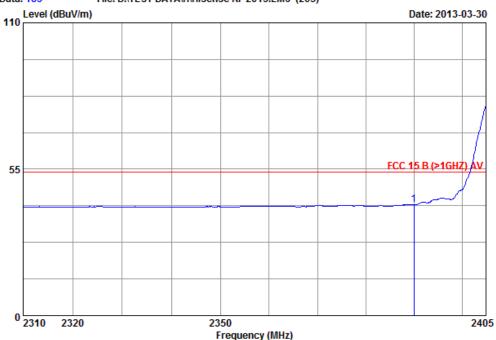
1 2364.570 28.90 35.96 6.40 53.48 52.82 74.00 21.18 Peak
2 2390.000 28.80 35.95 6.42 51.90 51.17 74.00 22.83 Peak

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 25 of 111



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Site no : Audix ACI (3m Chamber) Data no. : 183

Dis. / Ant. : 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B1

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

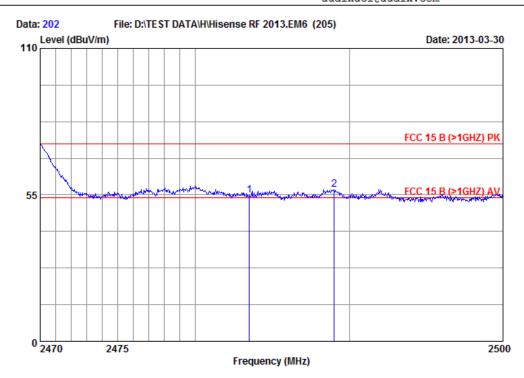
1 2390.000 28.80 35.95 6.42 42.41 41.68 54.00 12.32 Average

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For 802.11b Ch11:



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Site no : Audix ACI (3m Chamber) Data no. : 202

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B11

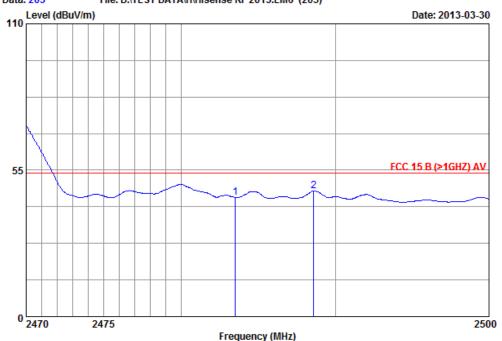
	1		Factor	Loss		Emission Level (dBuV/m)	_	Remark
1 2483.		28.36 28.36			55.99 58.05	54.89 56.97	 19.11 17.03	Peak Peak

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Site no : Audix ACI (3m Chamber) Data no. : 203

Dis. / Ant. : 3m /EMCO3115 2012-05-03 Limit : FCC 15 B (>1GHZ) AV

Ant. pol. : HORIZONTAL Env. / Ins. : 22'C 60%RH/ E7405A

Engineer : Dio

Test Mode : WIFI B11

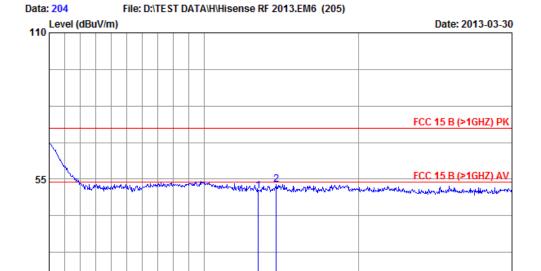
Freq.	Antenna Factor (dB/m)	Preamp Factor (dB)		Emission Level (dBuV/m)		Remark
1 2483.508 2 2488.600	28.36 28.36	35.91 35.91	45.95 48.21	44.85 47.13	54.00 54.00	Average Average

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Audix Technology (Shanghai) Co., Ltd.
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2500



Site no : Audix ACI (3m Chamber) Data no. : 204

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B11

2475

0 2470

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

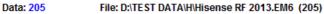
1 2483.508 28.36 35.91 6.45 51.73 50.63 74.00 23.37 Peak
2 2484.686 28.36 35.91 6.47 54.12 53.04 74.00 20.96 Peak

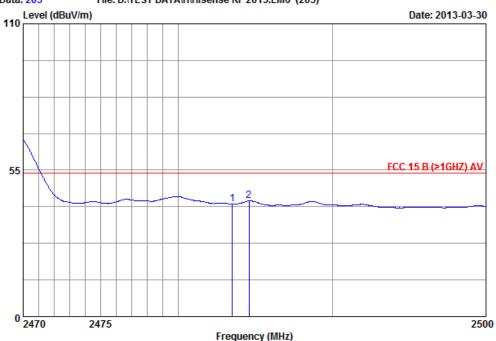
Frequency (MHz)

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Site no : Audix ACI (3m Chamber) Data no. : 205

Dis. / Ant. : 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI B11

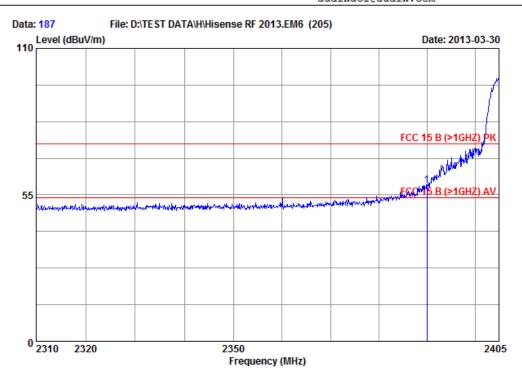
	-		Preamp Factor (dB)	Loss	_	Emission Level (dBuV/m)	-	Remark
_	2483.508 2484.610	28.36 28.36	35.91 35.91		43.29 44.55	42.19 43.47		Average Average

Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 30 of 111

For 802.11g Ch01:



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Site no : Audix ACI (3m Chamber) Data no. : 187

Dis. / Ant. : 3m /EMCO 3115

Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G1

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

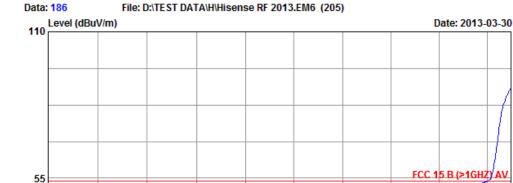
1 2389.968 28.80 35.95 6.42 59.34 58.61 74.00 15.39 Peak

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Audix Technology (Shanghai) Co., Ltd. 3F #34Bldg. No.680 GuiPing Rd., CaoHeJing Hi-Tech Park, Shanghai 200233, China Tel:+86-21-64955500 Fax:+86-21-64955491 audixaci@audix.com

2405



Site no : Audix ACI (3m Chamber) Data no. : 186 Dis. / Ant. : 3m /EMCO3115 2012-05-03

2350

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G1

2320

2310

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

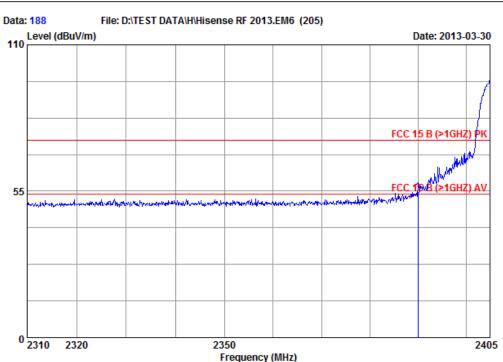
1 2389.968 28.80 35.95 6.42 46.46 45.73 54.00 8.27 Average

Frequency (MHz)

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Site no : Audix ACI (3m Chamber) Data no. : 188

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G1

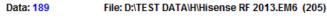
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

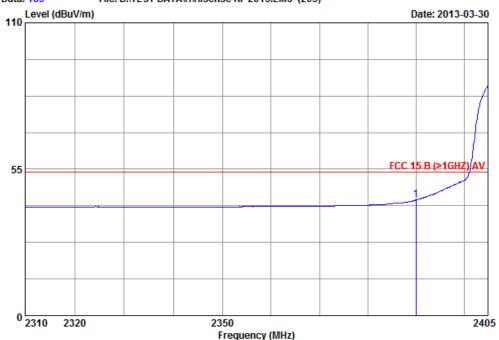
1 2389.968 28.80 35.95 6.42 55.34 54.61 74.00 19.39 Peak

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Site no : Audix ACI (3m Chamber) Data no. : 189

Dis. / Ant. : 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G1

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

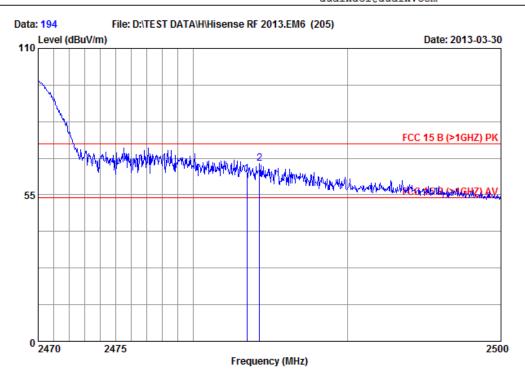
1 2389.968 28.80 35.95 6.42 44.11 43.38 54.00 10.62 Average

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For 802.11g Ch11:



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Site no : Audix ACI (3m Chamber) Data no. : 194

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G11

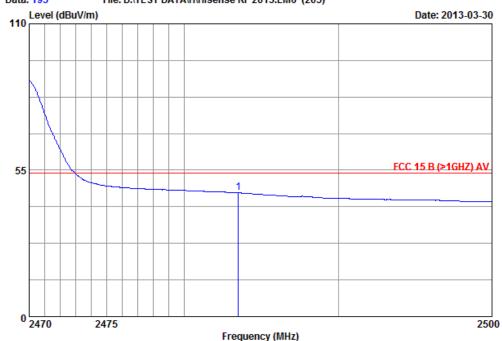
Freq.		Preamp Factor		Reading	Emission Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2483.500	28.36	35.91	6.45	63.95	62.85	74.00	11.15	Peak
2 2484.306	28.36	35.91	6.47	67.73	66.65	74.00	7.35	Peak

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Site no : Audix ACI (3m Chamber) Data no. : 195

Dis. / Ant.: 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G11

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

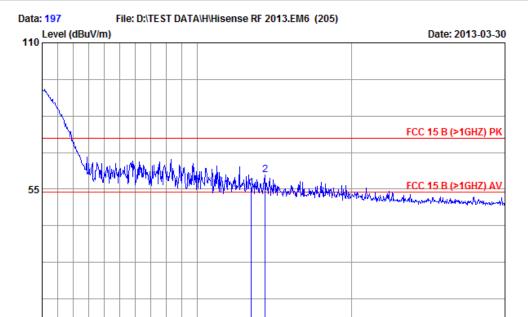
1 2483.508 28.36 35.91 6.45 47.61 46.51 54.00 7.49 Average

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2500



Site no : Audix ACI (3m Chamber) Data no. : 197

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G11

2475

0 2470

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

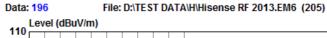
1 2483.508 28.36 35.91 6.45 56.64 55.54 74.00 18.46 Peak
2 2484.420 28.36 35.91 6.47 61.45 60.37 74.00 13.63 Peak

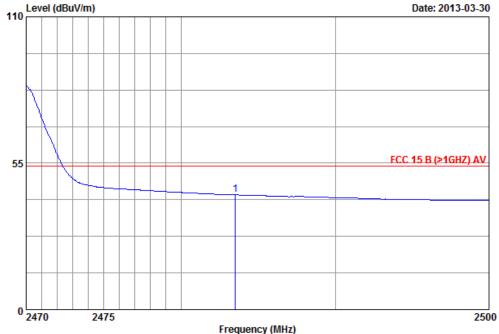
Frequency (MHz)

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Site no : Audix ACI (3m Chamber) Data no. : 196

Dis. / Ant. : 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI G11

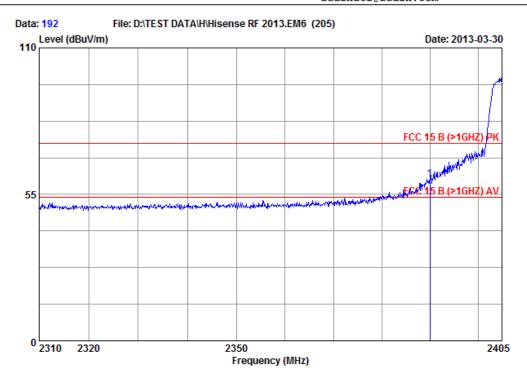
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark Factor Factor Loss Level $(MHz) \quad (dB/m) \qquad (dB) \qquad (dBuV) \qquad (dBuV/m) \quad (dBuV/m) \quad (dB)$

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For 802.11n Ch01:



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Site no : Audix ACI (3m Chamber) Data no. : 192

Dis. / Ant. : 3m /EMCO 3115

Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N1

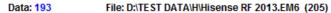
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

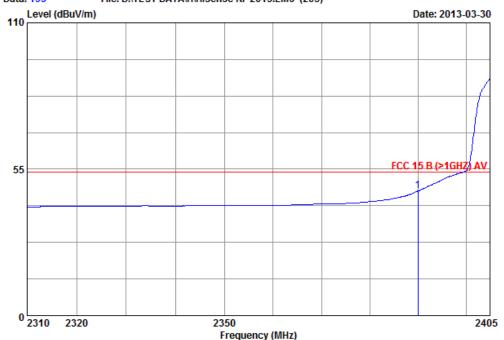
1 2389.968 28.80 35.95 6.42 61.52 60.79 74.00 13.21 Peak

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Site no : Audix ACI (3m Chamber) Data no. : 193

Dis. / Ant.: 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N1

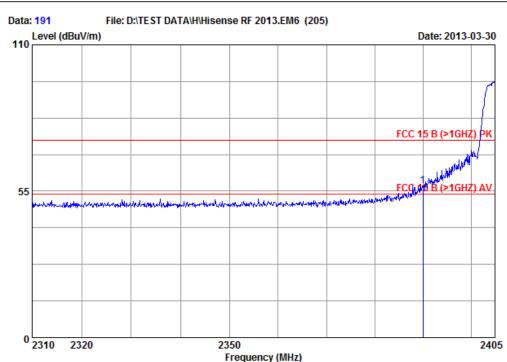
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

1 2389.968 28.80 35.95 6.42 47.55 46.82 54.00 7.18 Average

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Site no : Audix ACI (3m Chamber) Data no. : 191

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N1

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

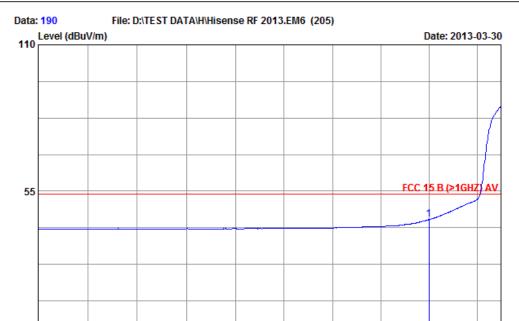
1 2389.968 28.80 35.95 6.42 57.66 56.93 74.00 17.07 Peak

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2405



Site no : Audix ACI (3m Chamber) Data no. : 190

2350

Dis. / Ant. : 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N1

2320

2310

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

1 2389.968 28.80 35.95 6.42 45.06 44.33 54.00 9.67 Average

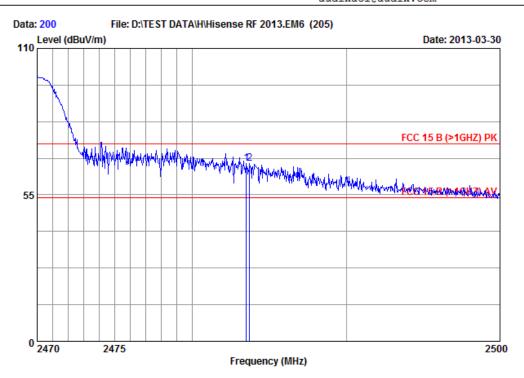
Frequency (MHz)

Hisense Electric Co., Ltd. Page 42 of 111 FCC ID: W9HPADP0001

For 802.11n Ch11:



Audix Technology (Shanghai) Co., Ltd. 3F #34Bldg. No.680 GuiPing Rd., CaoHeJing Hi-Tech Park, Shanghai 200233, China Tel:+86-21-64955500 Fax:+86-21-64955491 audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 200

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N11

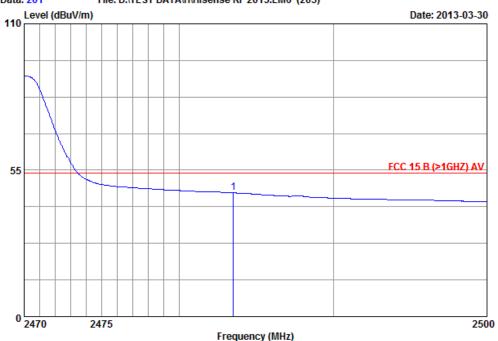
-	Factor	Loss	_	Emission Level (dBuV/m)		_	Remark
1 2483.508 2 2483.736	 35.91 35.91		67.80 67.90	66.70 66.80	74.00 74.00	7.30 7.20	Peak Peak

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Audix Technology (Shanghai) Co., Ltd.
3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai 200233, China
Tel:+86-21-64955500 Fax:+86-21-64955491
audixaci@audix.com





Site no : Audix ACI (3m Chamber) Data no. : 201

Dis. / Ant.: 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL

Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N11

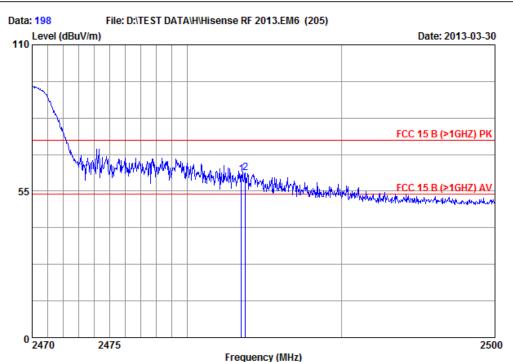
Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

1 2483.508 28.36 35.91 6.45 47.57 46.47 54.00 7.53 Average

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Audix Technology (Shanghai) Co., Ltd. 3F #34Bldg. No.680 GuiPing Rd., CaoHeJing Hi-Tech Park, Shanghai 200233, China Tel:+86-21-64955500 Fax:+86-21-64955491 audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 198

Dis. / Ant. : 3m /EMCO 3115 Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N11

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

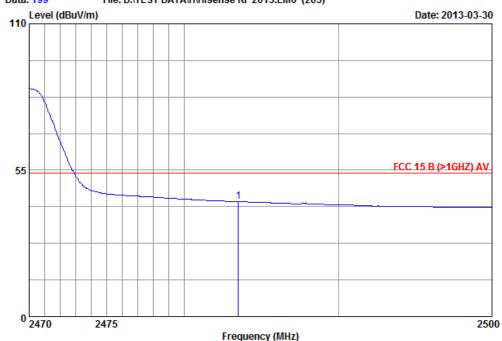
1 2483.508 28.36 35.91 6.45 62.36 61.26 74.00 12.74 Peak
2 2483.774 28.36 35.91 6.45 63.14 62.04 74.00 11.96 Peak

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Site no : Audix ACI (3m Chamber) Data no. : 199

Dis. / Ant.: 3m /EMCO3115 2012-05-03

Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio

Test Mode : WIFI N11

Freq. Antenna Preamp Cable Reading Emission Limits Margin Remark
Factor Factor Loss Level
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB)

1 2483.508 28.36 35.91 6.45 44.28 43.18 54.00 10.82 Average

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5 6 dB BANDWIDTH MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Iter	n Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	Sep 11, 2012	Sep 11, 2013
2.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013

5.2 Block Diagram of Test Setup

Test Receiver /	EUT
Spectrum Analyzer	

5.3 Specification Limits (§15.247(a)(2))

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.4 Operating Condition of EUT

The test program "adb shell" was used to enable the EUT to transmit data at different channel frequency individually.

5.5 Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100 kHz RBW / 300 kHz VBW.

The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

The test procedure is defined in KDB558074 v02:2012 (the 7.1 Measurement Procedure "Option 1" was used).

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5.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: Feb. 28 – Mar. 04, 2013 Temperature: 24°C Humidity: 45 %)

2.4GHz band:

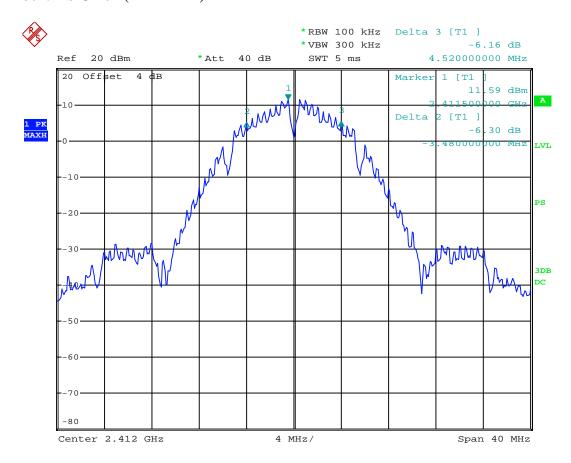
Modulation	Channel	Frequency	6dB Bandwidth
	01	2412 MHz	8.00 MHz
802.11b	06	2437 MHz	8.00 MHz
	11	2462 MHz	8.00 MHz
	01	2412 MHz	15.36 MHz
802.11g	06	2437 MHz	15.48 MHz
	11	2462 MHz	15.52 MHz
202 11n	01	2412 MHz	16.32 MHz
802.11n HT20	06	2437 MHz	15.36 MHz
11120	11	2462 MHz	15.46 MHz

5.8GHz band:

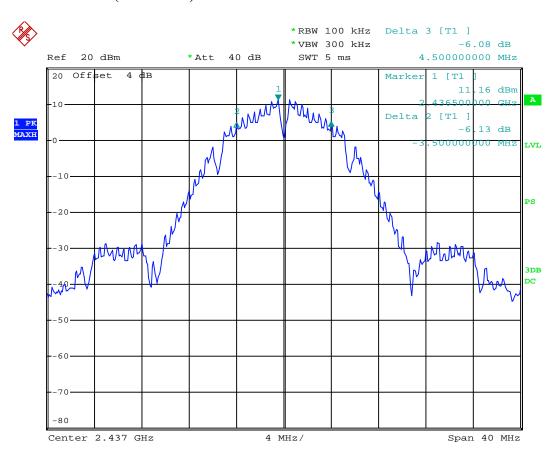
Modulation	Channel	Frequency	6dB Bandwidth
	149	5745 MHz	16.256 MHz
802.11a	157	5785 MHz	15.969 MHz
	161	5805 MHz	16.388 MHz
000 11	149	5745 MHz	15.991 MHz
802.11n HT20	157	5785 MHz	15.969 MHz
11120	161	5805 MHz	16.123 MHz

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802.11b Ch 01 (2412 MHz)

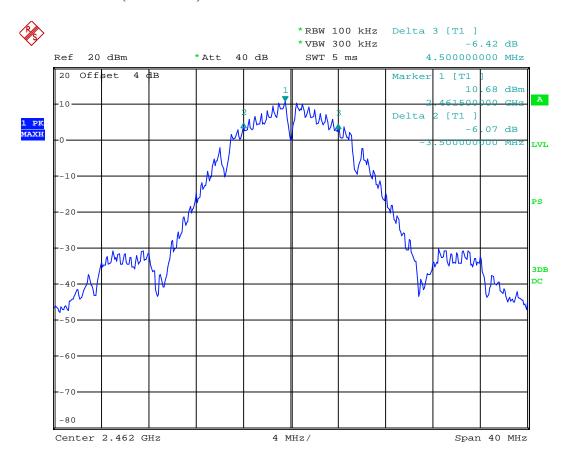


802.11b Ch 06 (2437 MHz)



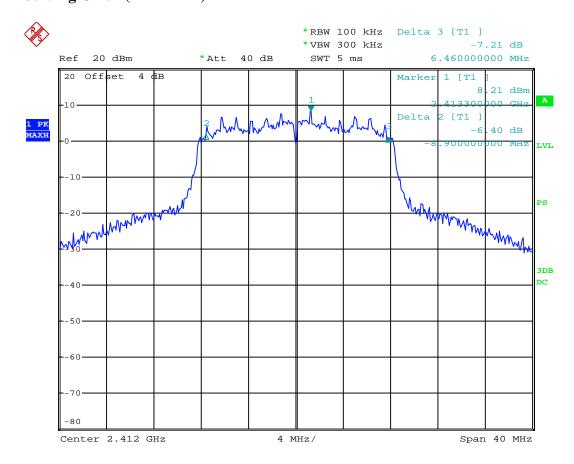
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802.11b Ch 11 (2462 MHz)

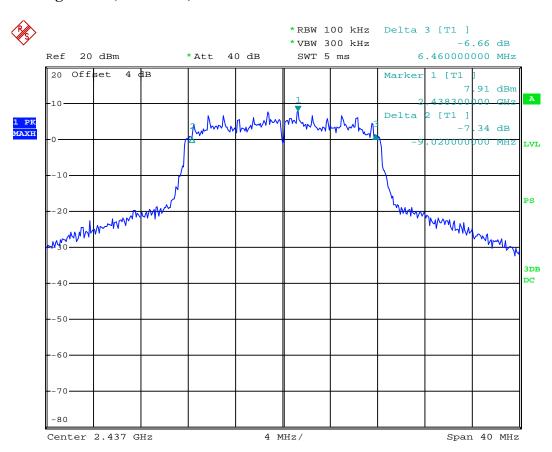


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802.11g Ch 01 (2412 MHz)

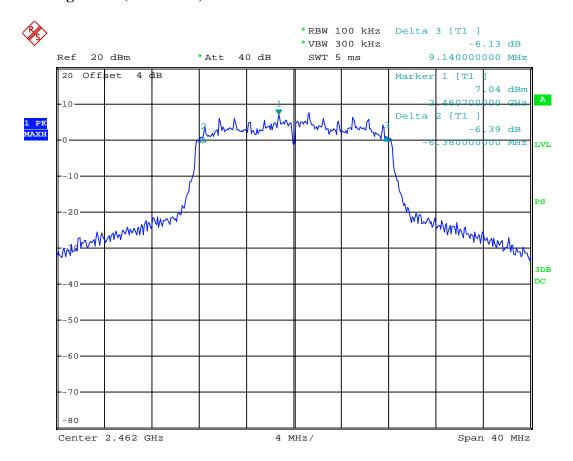


802.11g Ch 06 (2437 MHz)



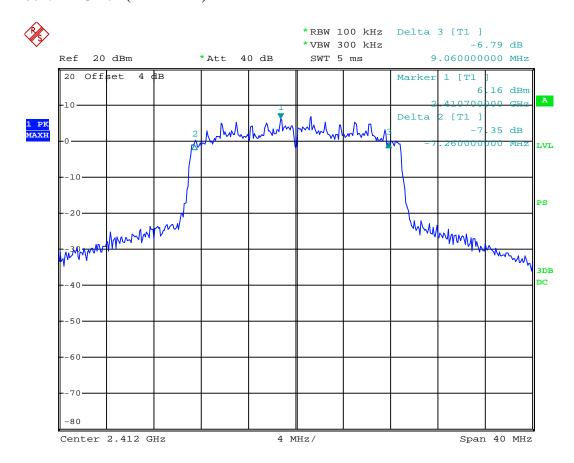
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802.11g Ch 11 (2462 MHz)

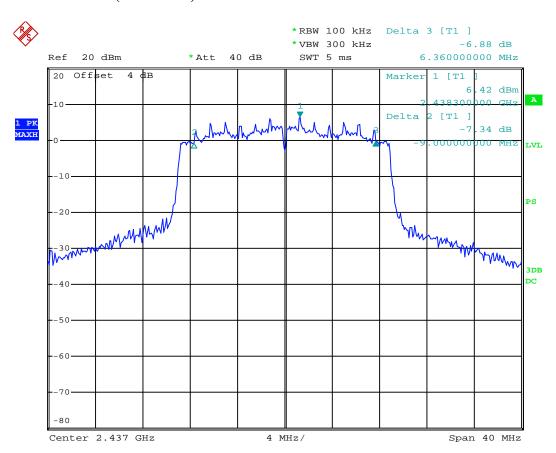


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802.11n Ch 01 (2412 MHz)

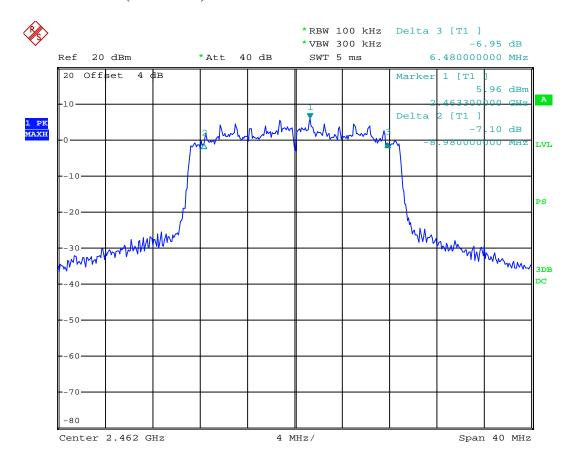


802.11n Ch 06 (2437 MHz)



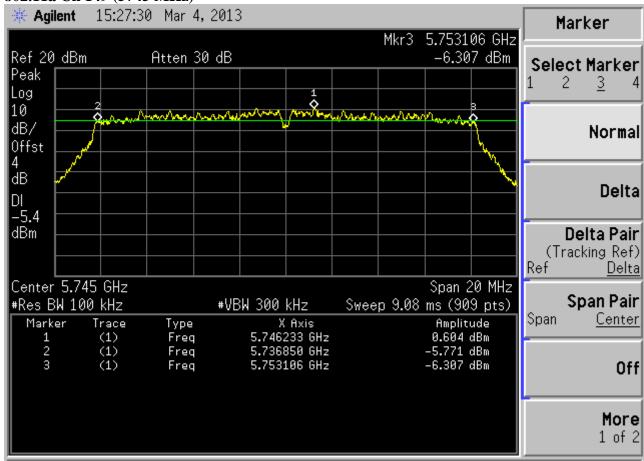
Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 53 of 111

802.11n Ch 11 (2462 MHz)

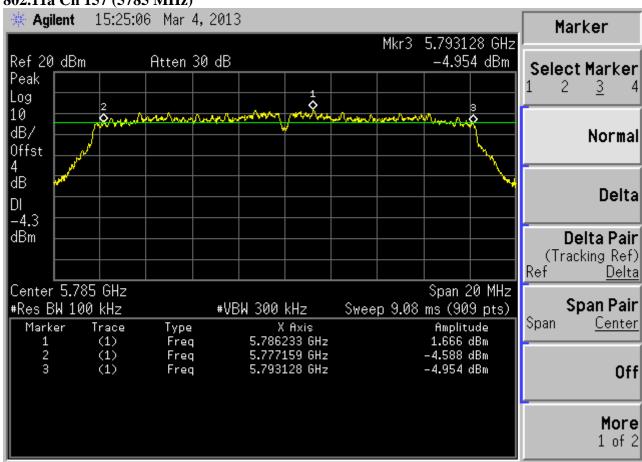


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802.11a Ch 149 (5745 MHz)

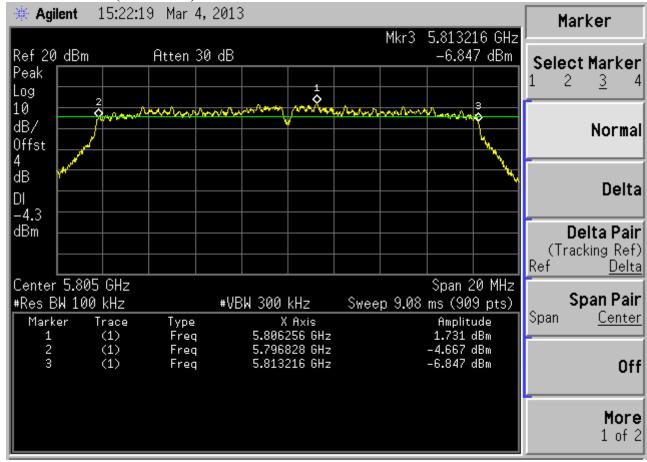


802.11a Ch 157 (5785 MHz)



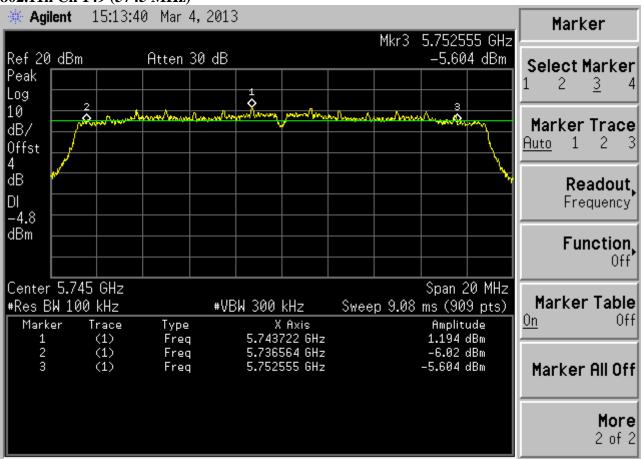
Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 55 of 111

802.11a Ch 161 (5805 MHz)

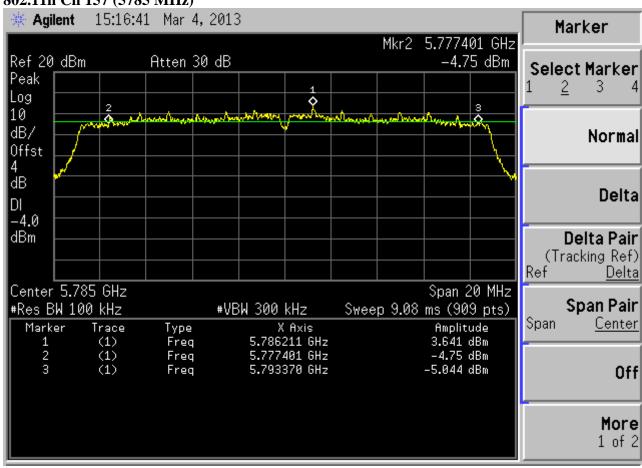


Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 56 of 111

802.11n Ch 149 (5745 MHz)

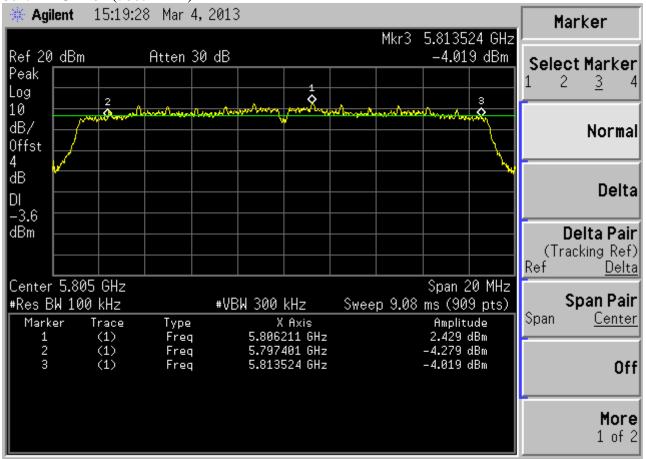


802.11n Ch 157 (5785 MHz)



Hisense Electric Co., Ltd. FCC ID: W9HPADP0001 Page 57 of 111

802.11n Ch 161 (5805 MHz)



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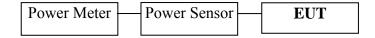
6 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

6.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

]	Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	1.	Power Meter	Anritsu	ML2487A	6K00003245	Mar 22, 2012	Mar 22, 2013
	2.	Power Sensor	Anritsu	MA2491A	32489	Mar 22, 2012	Mar 22, 2013

6.2 Block Diagram of Test Setup



6.3 Specification Limits ((§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5 MHz and 5725-5850 MHz is: 1 Watt. (30 dBm)

6.4 Operating Condition of EUT

The test program "adb shell" was used to enable the EUT to transmit data at different channel frequency individually.

6.5 Test Procedure

This is an RF conducted test.

Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation. We use Power Output Option 1 (which defined in KDB558074) to measure the power output. Power Output Option 1 is a peak measurement. The transmitter output was connected to the power meter that was designed to detect peak value automatically.

Note: The bandwidth of the power meter is 20MHz.

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6.6 Test Results

PASSED. All the test results are listed below.

(Test Date: Mar. 01, 2013 Temperature: 24°C Humidity: 45 %)

2.4GHz band:

Modulation	Channel	Frequency	Peak Output Power	Limit
	01	2412 MHz	15.73 dBm	30 dBm
802.11b	06	2437 MHz	15.48 dBm	30 dBm
	11	2462 MHz	14.80 dBm	30 dBm
	01	2412 MHz	19.90 dBm	30 dBm
802.11g	06	2437 MHz	19.40 dBm	30 dBm
	11	2462 MHz	18.93 dBm	30 dBm
002 11	01	2412 MHz	19.62 dBm	30 dBm
802.11n HT20	06	2437 MHz	19.28 dBm	30 dBm
П120	11	2462 MHz	18.73 dBm	30 dBm

5.8GHz band:

Modulation	Channel	Frequency	Peak Output Power	Limit
	149	5745 MHz	15.60 dBm	30 dBm
802.11a	157	5785 MHz	17.00 dBm	30 dBm
	161	5805 MHz	17.29 dBm	30 dBm
002 11.	149	5745 MHz	16.09 dBm	30 dBm
802.11n HT20	157	5785 MHz	17.40 dBm	30 dBm
11120	161	5805 MHz	17.78 dBm	30 dBm

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7 EMISSION LIMITATIONS MEASUREMENT

7.1 Test Equipment

The following test equipment was used during the emission limitations test:

Ite	n Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013
2	Spectrum Analyzer	Agilent	E4447A	MY45300136	Jan 05, 2013	Jan 05, 2014

7.2 Block Diagram of Test Setup

The same as Section. 5.2.

7.3 Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(**This test result attaching to Section. 4.7)

7.4 Operating Condition of EUT

The test program "adb shell" was used to enable the EUT to transmit data at different channel frequency individually.

7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW = 100 kHz, VBW $\geq 300 \text{ kHz}$, scan up through 10^{th} harmonic or 40 GHz. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

The test procedure is defined in KDB558074 v02:2012 (the 10.1.2 Unwanted Emission Level Measurement was used).

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7.6 Test Results

PASSED.

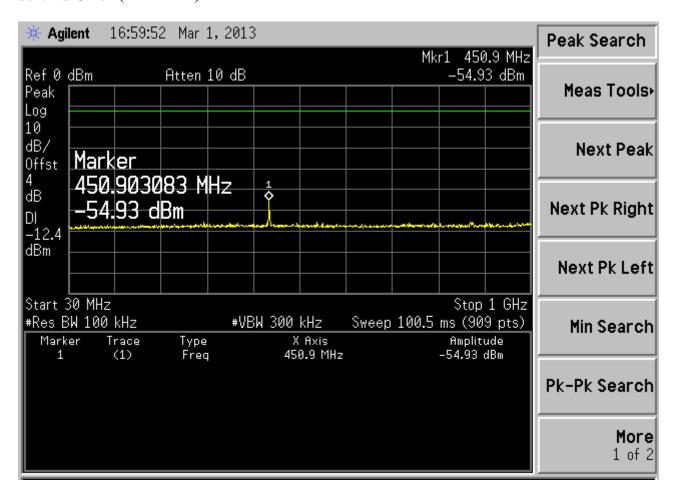
The test data was attached in the next pages.

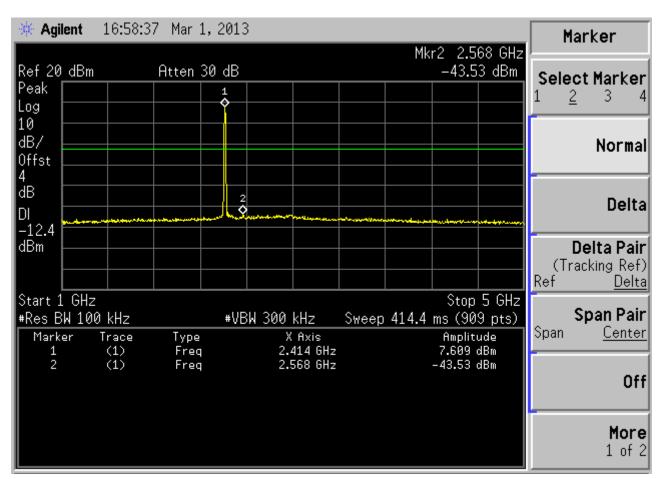
(Test Date: Mar. 01, 2013 Temperature: 24°C Humidity: 46 %)

Modulation	Data Page
2.4GHz 802.11b	P62-67
2.4GHz 802.11g	P68-73
2.4GHz 802.11n HT20	P74-79
5.8GHz 802.11a	P80-85
5.8GHz 802.11n HT20	P86-91

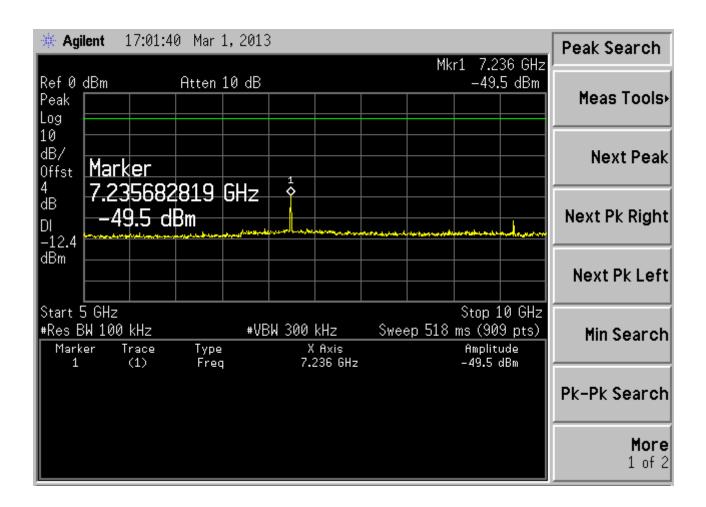
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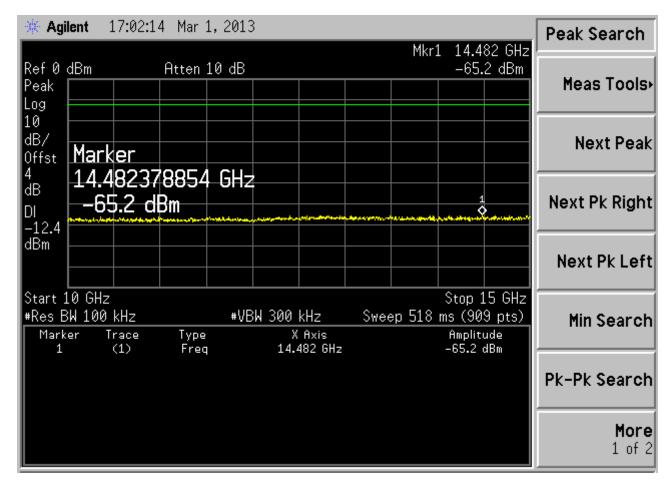
802.11b Ch 01 (2412 MHz)



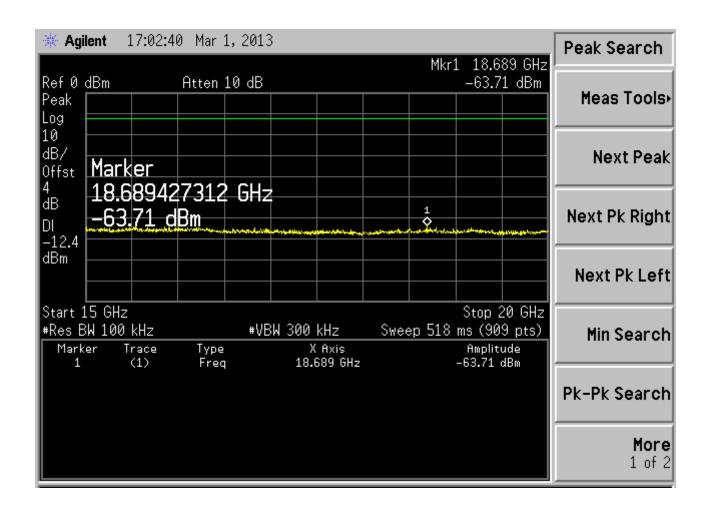


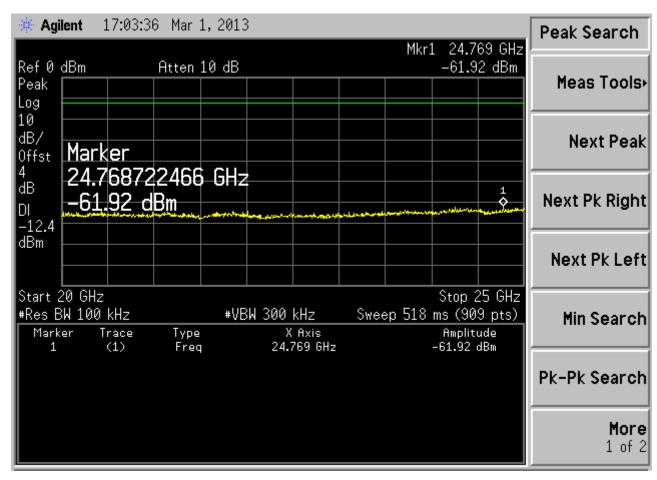
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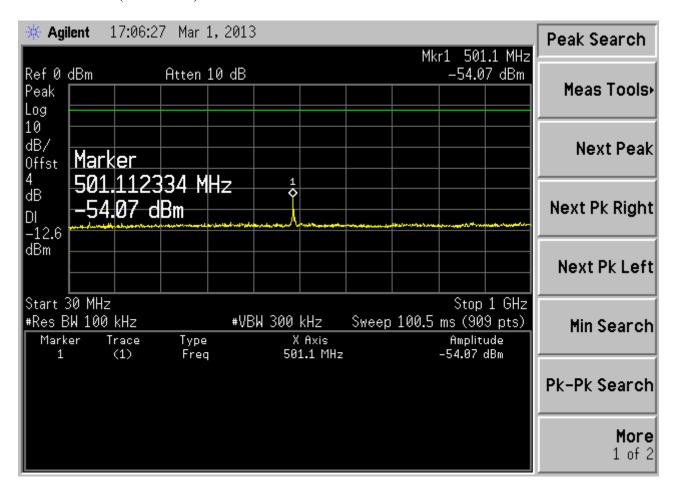
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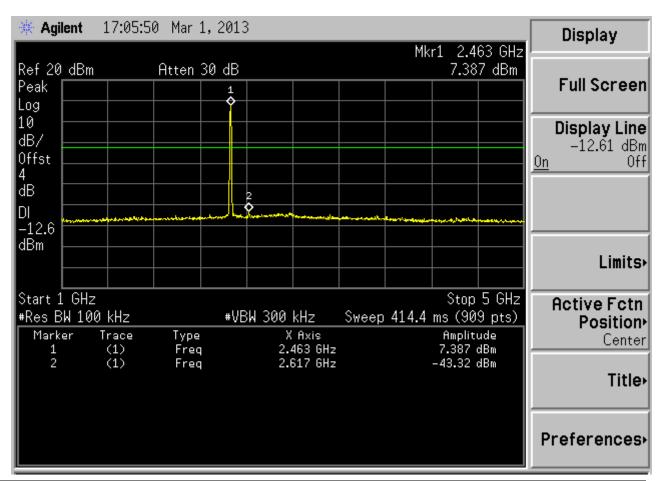




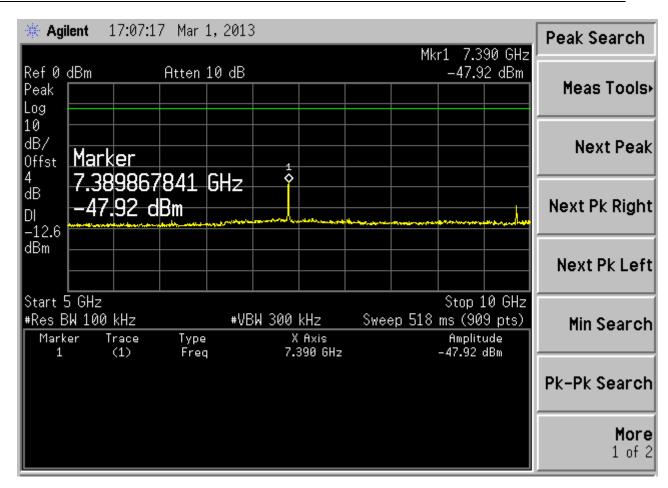
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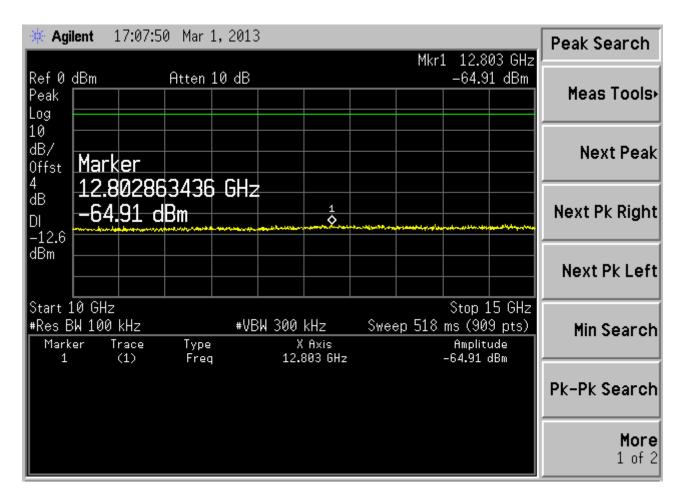
802.11b Ch 11 (2462 MHz)



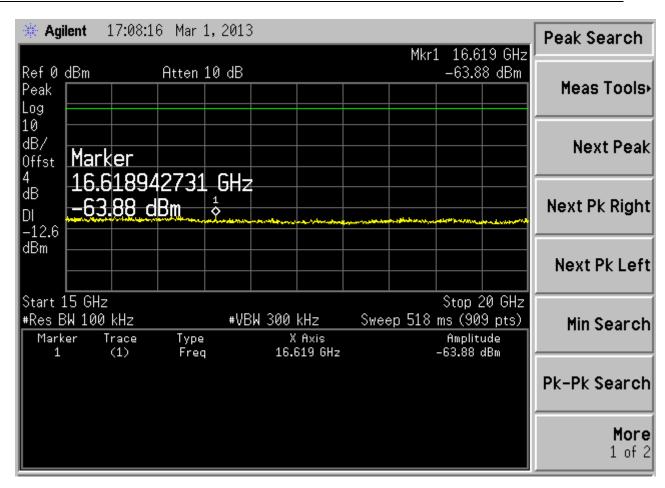


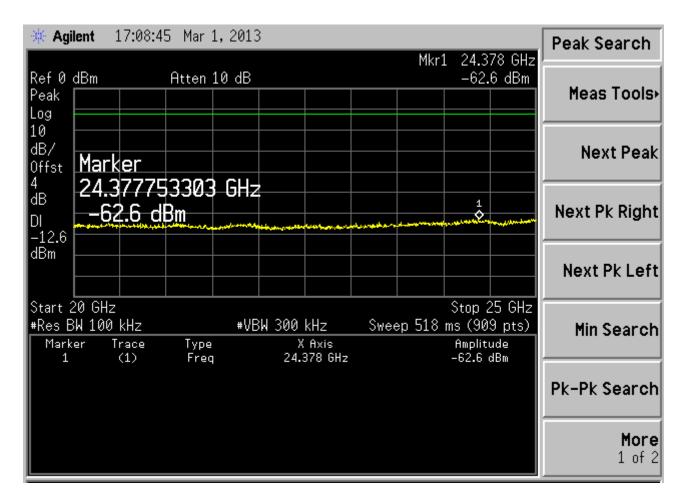
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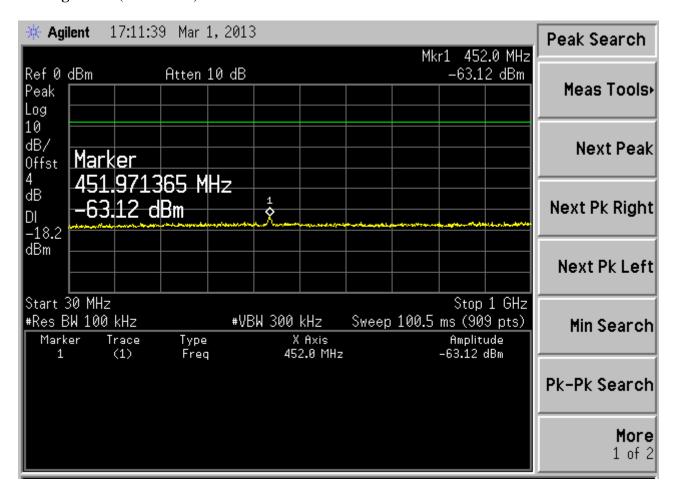
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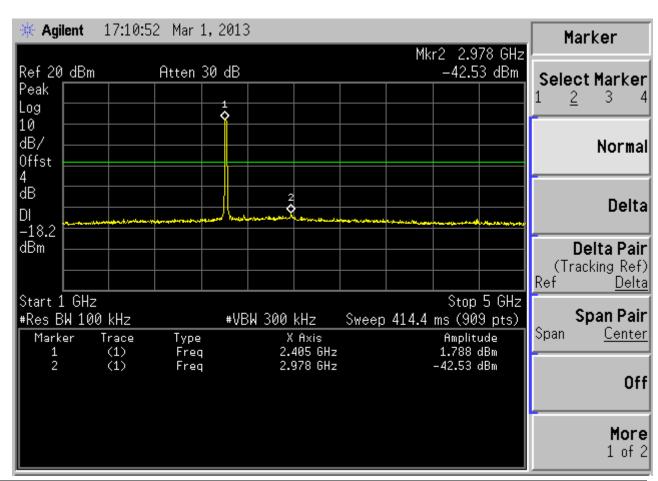




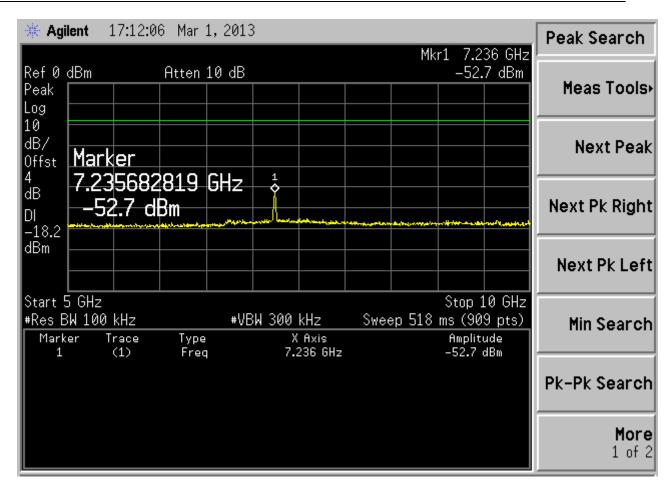
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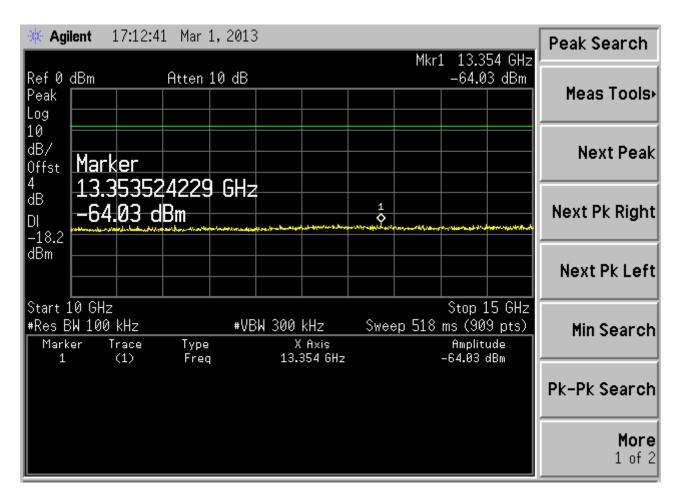
802.11g Ch 01 (2412 MHz)



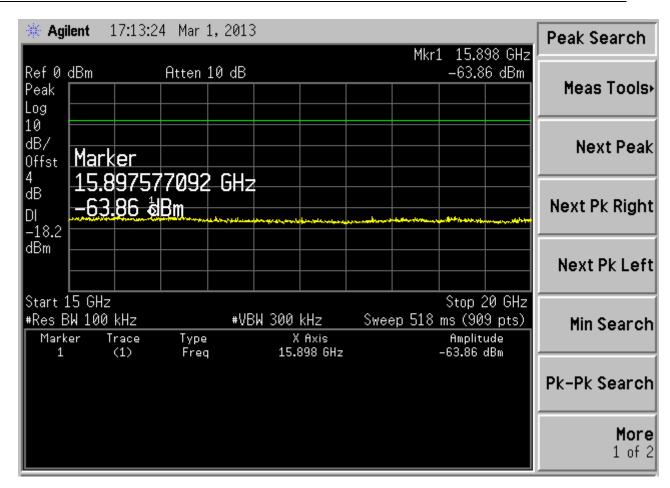


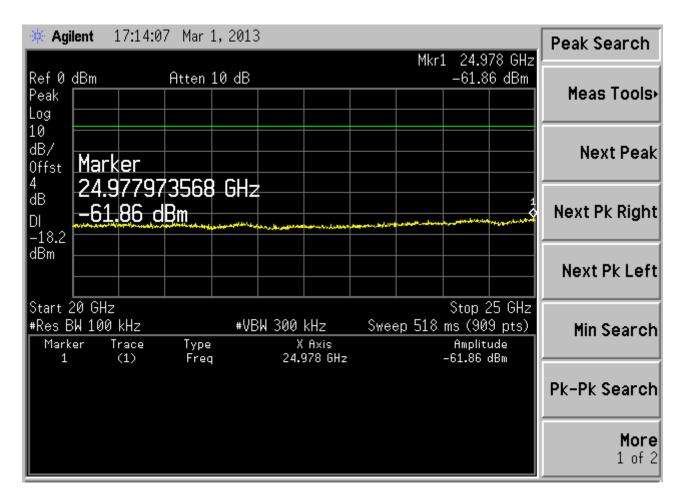
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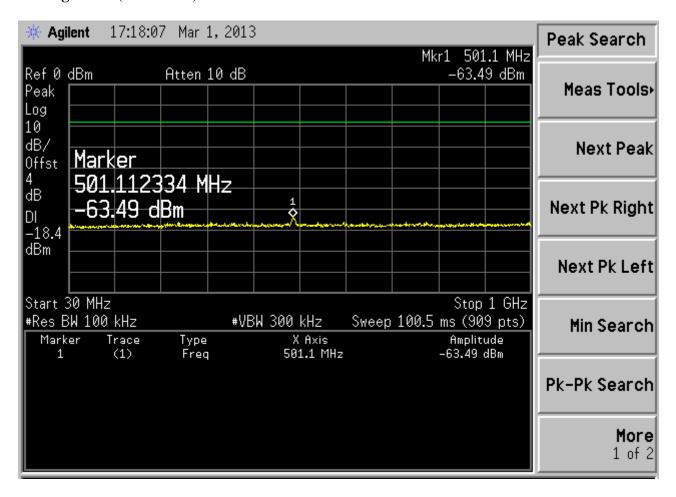
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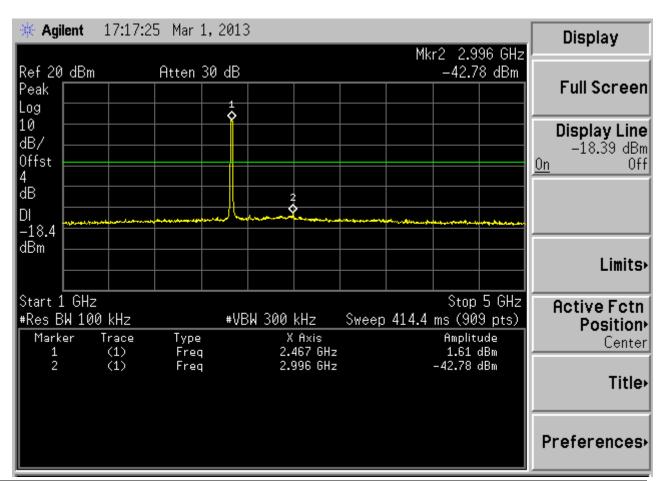




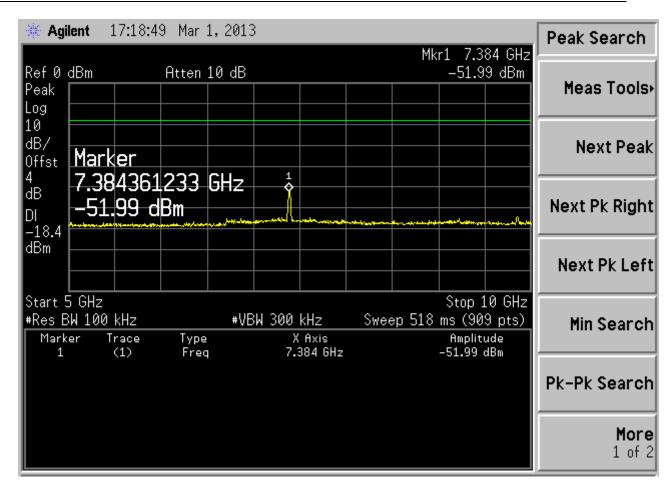
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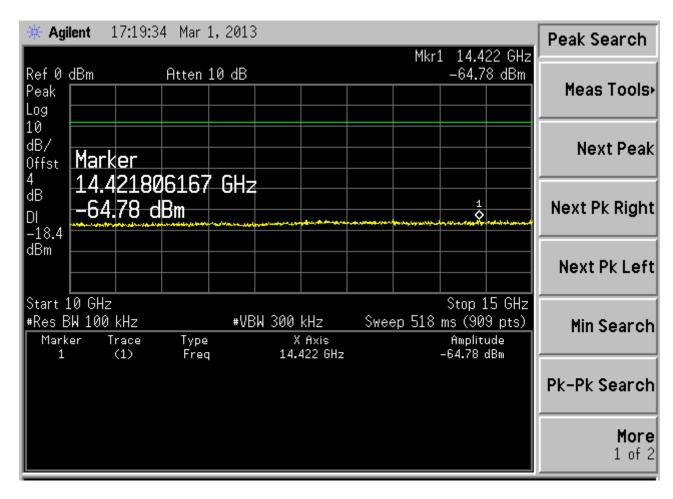
802.11g Ch 11 (2462 MHz)



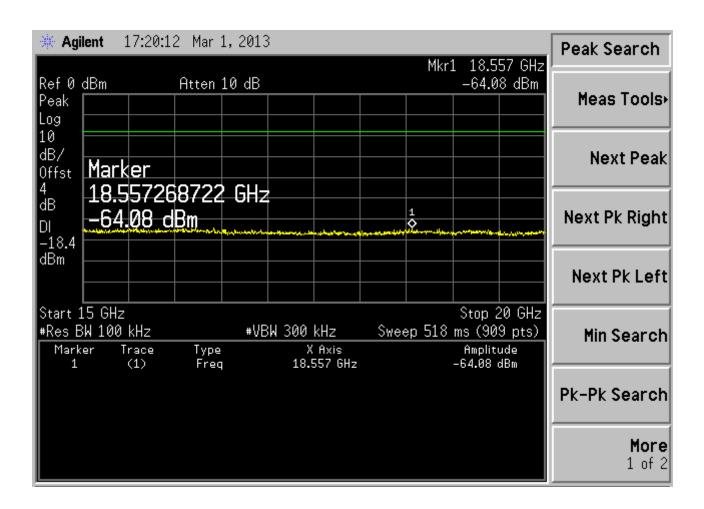


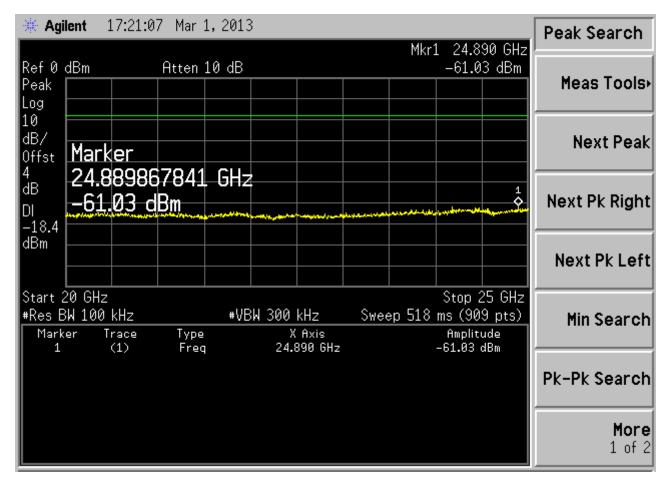
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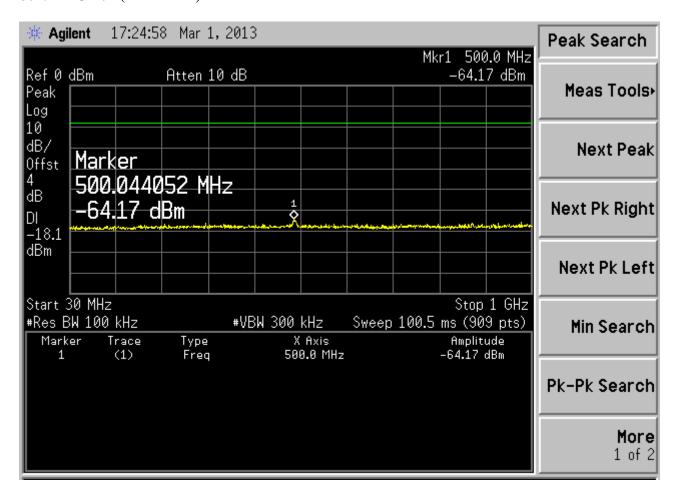
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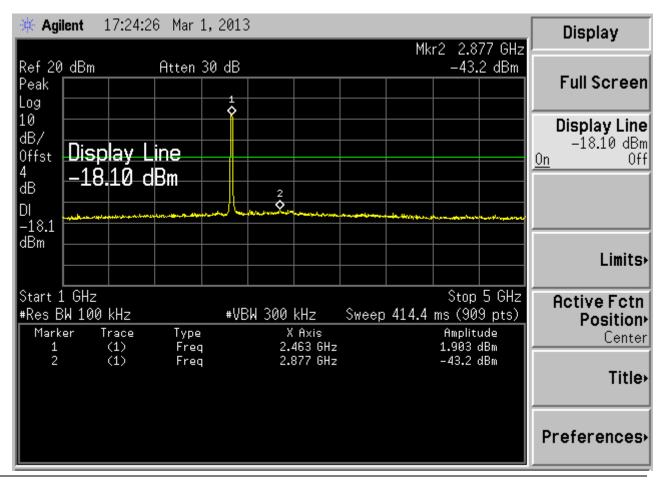




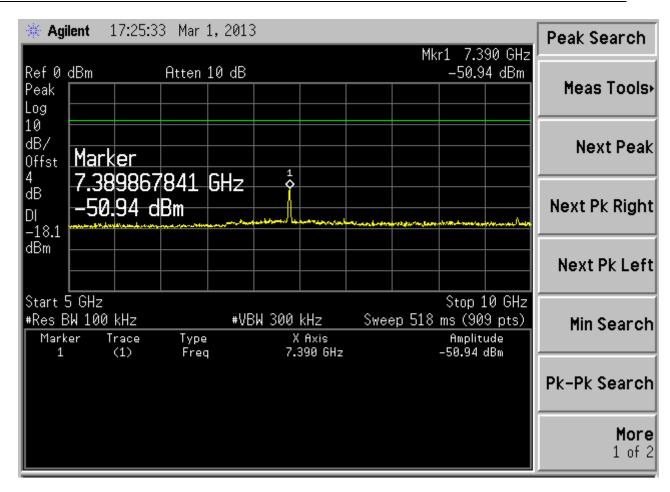
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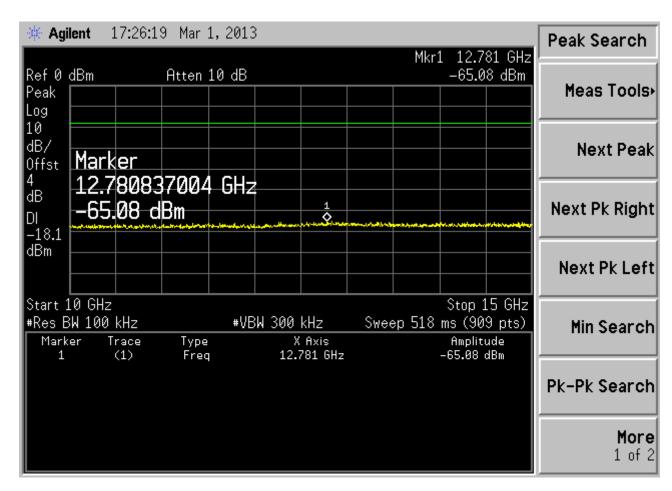
802.11n Ch 01 (2412 MHz)



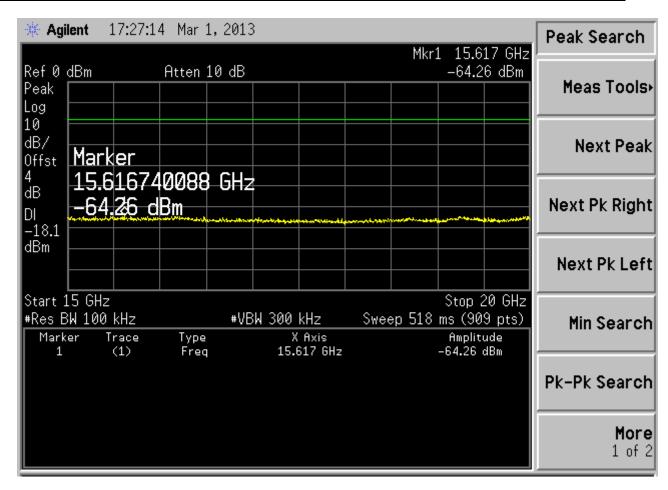


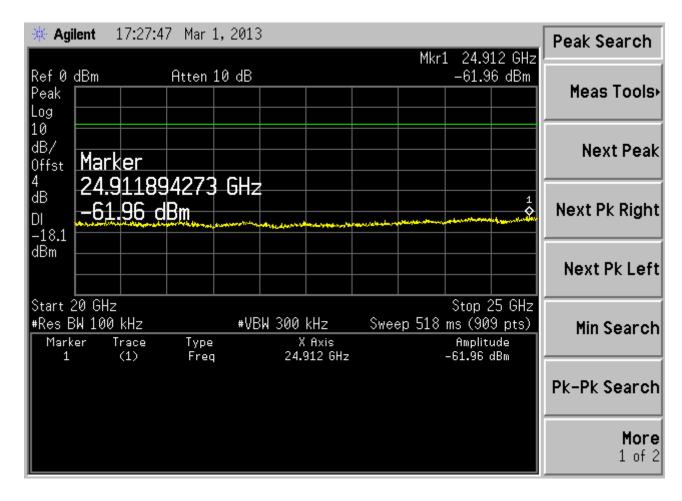
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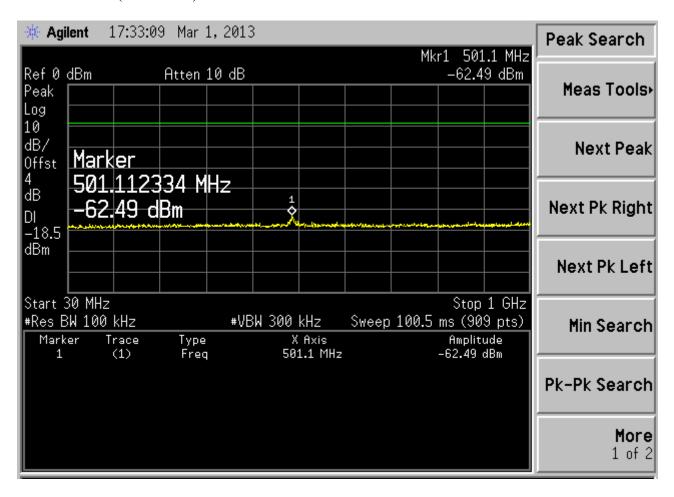
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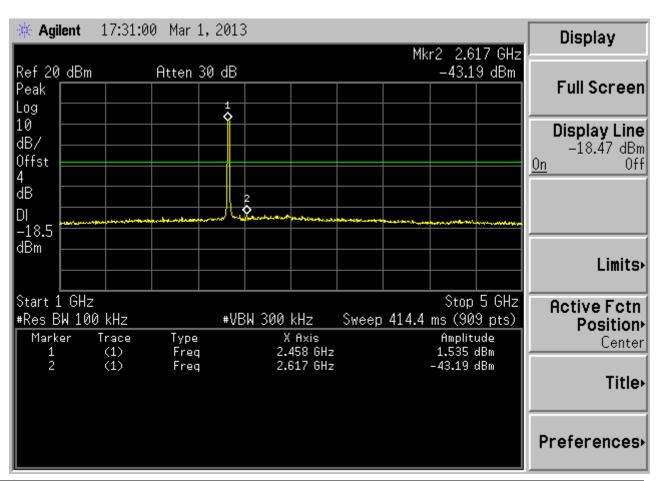




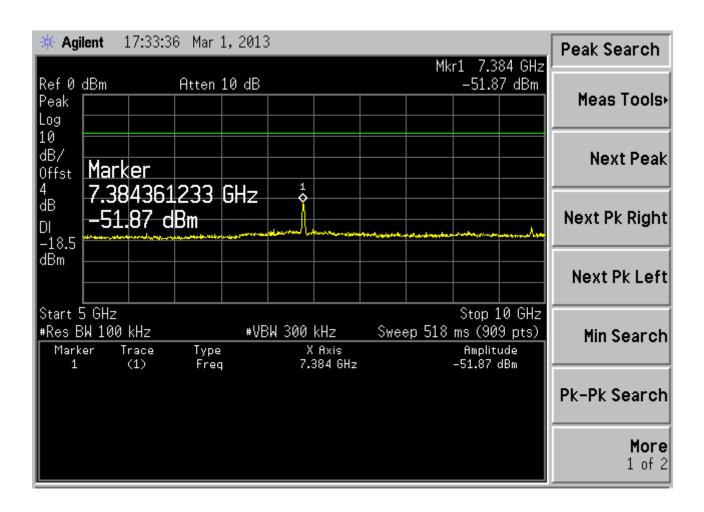
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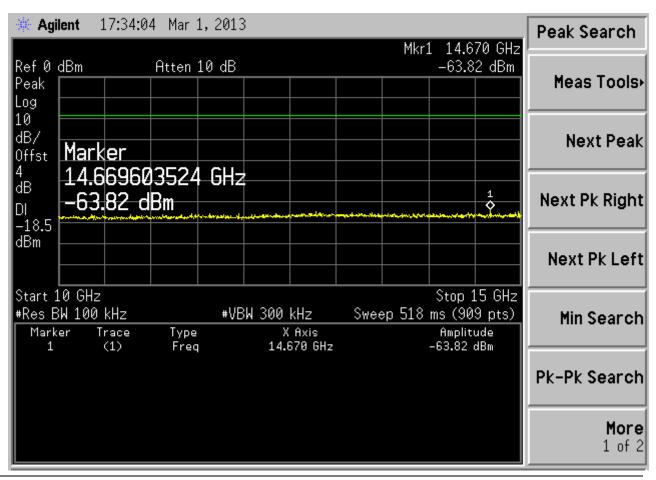
802.11n Ch 11 (2462 MHz)



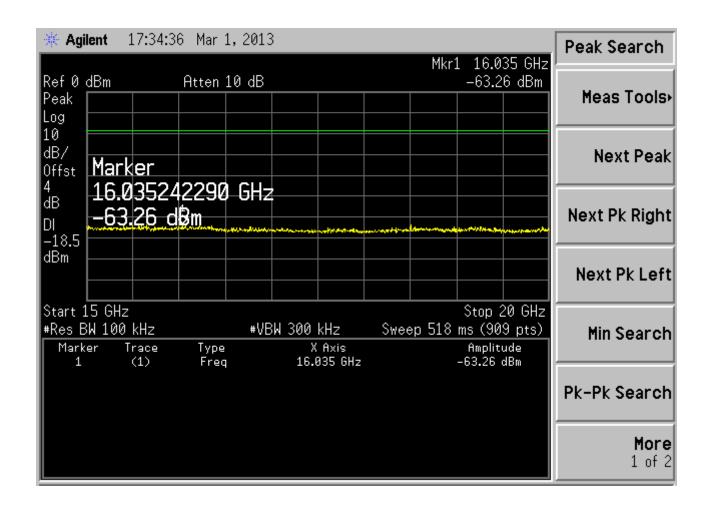


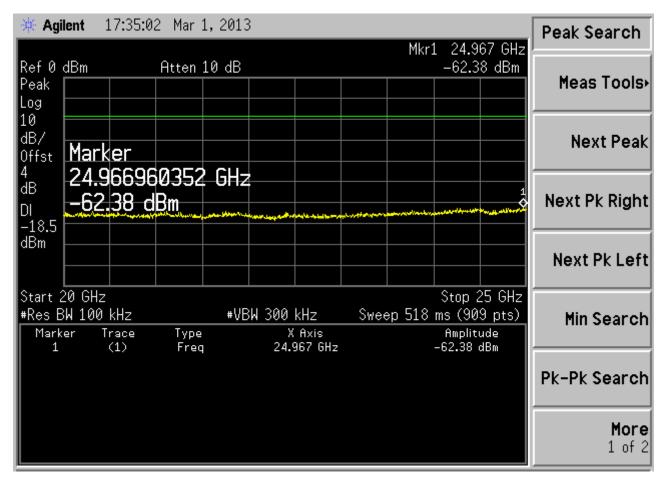
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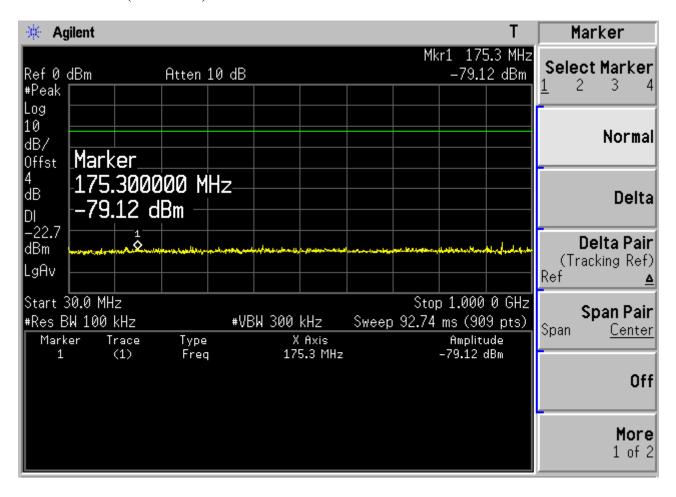
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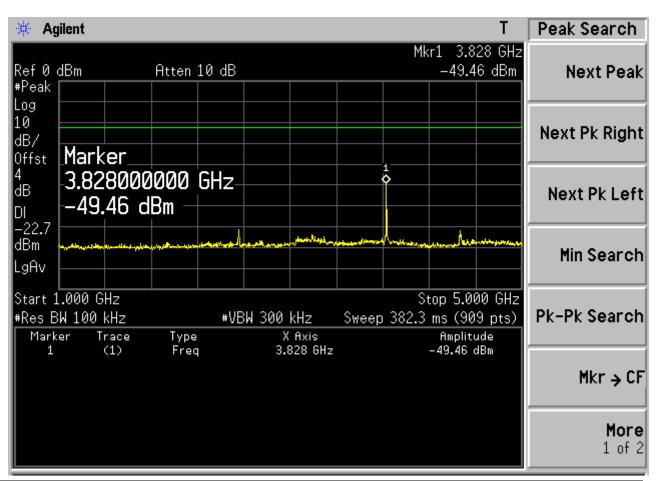




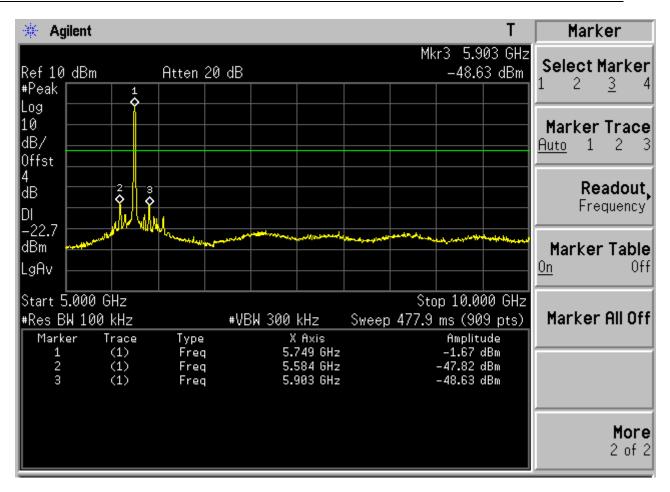
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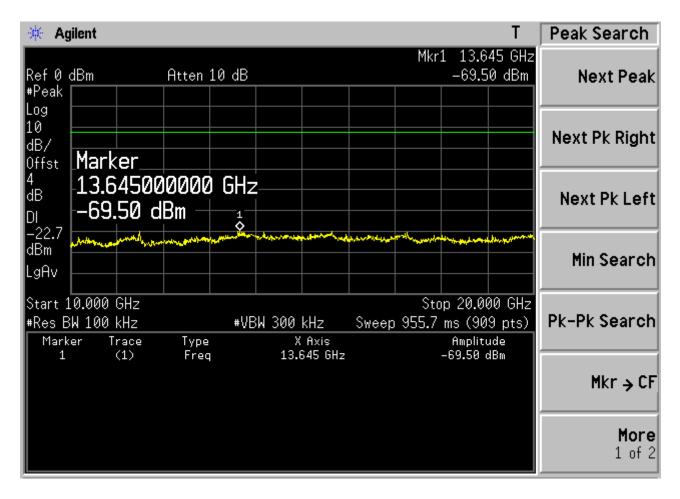
802.11a Ch 149 (5745 MHz)



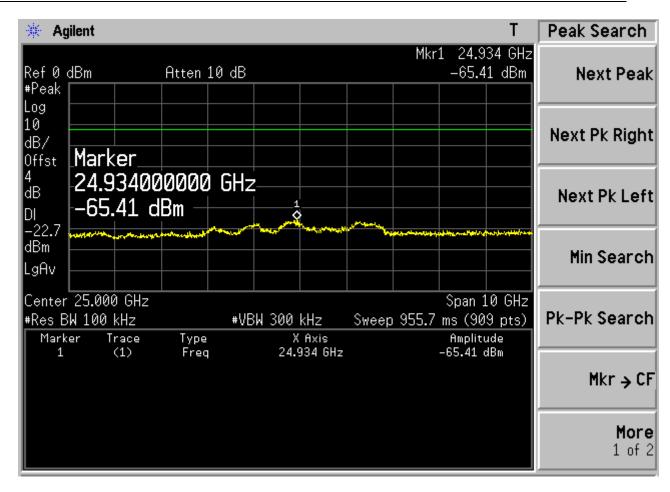


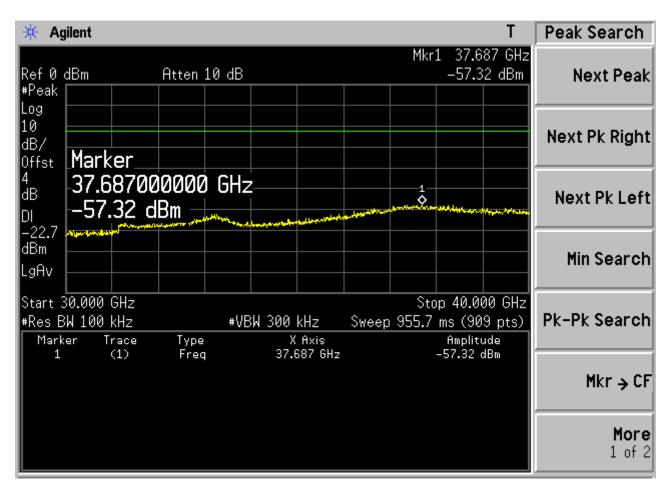
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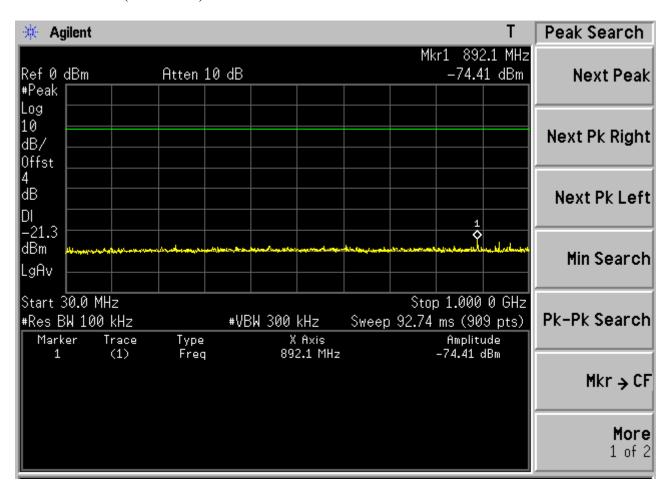
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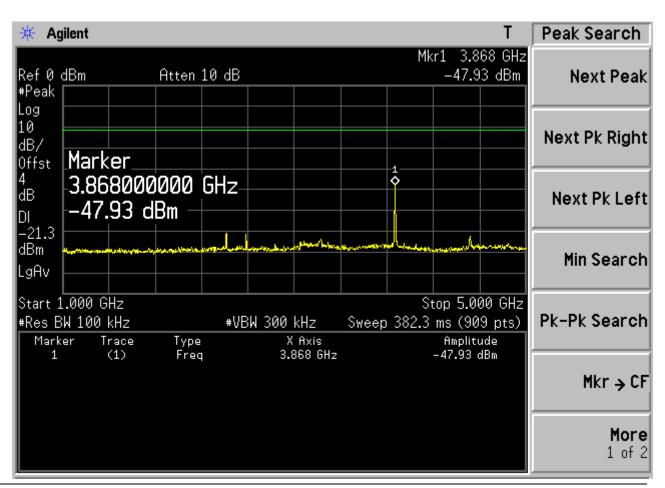




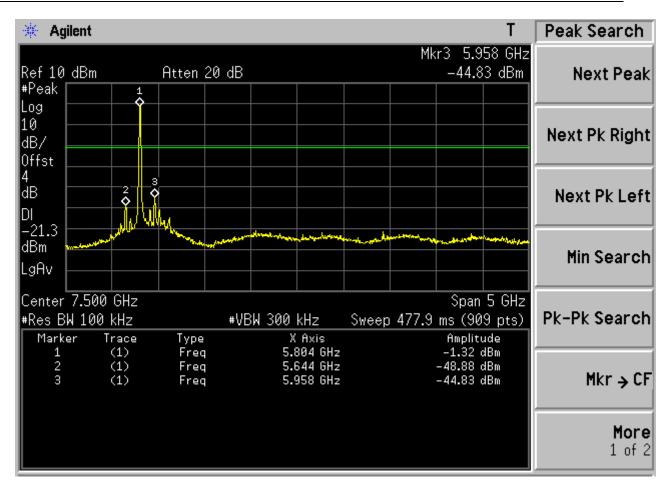
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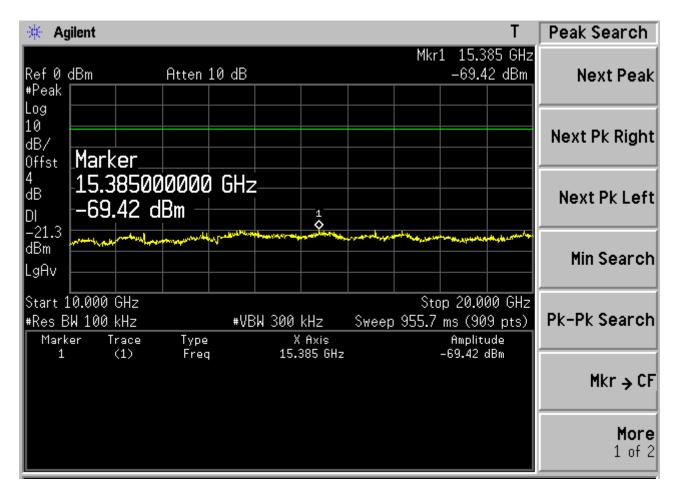
802.11a Ch 161 (5805 MHz)



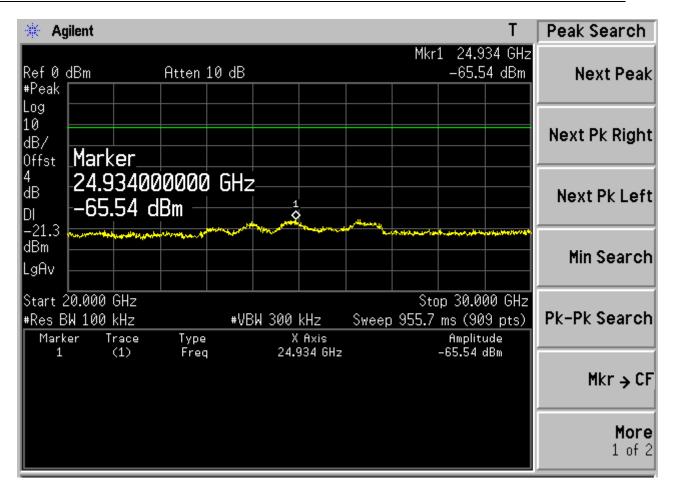


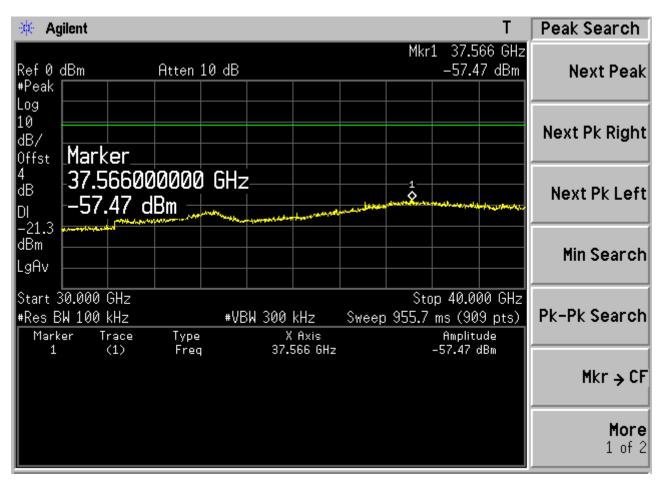
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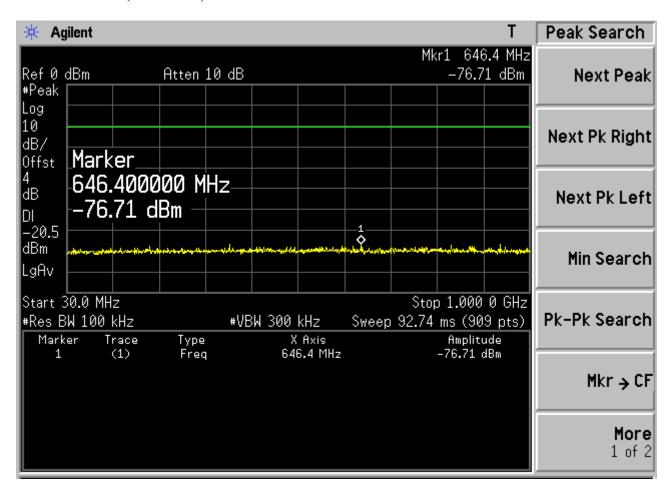
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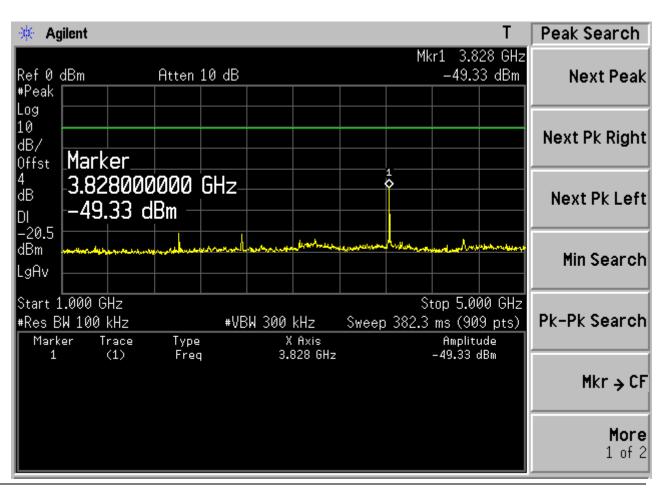




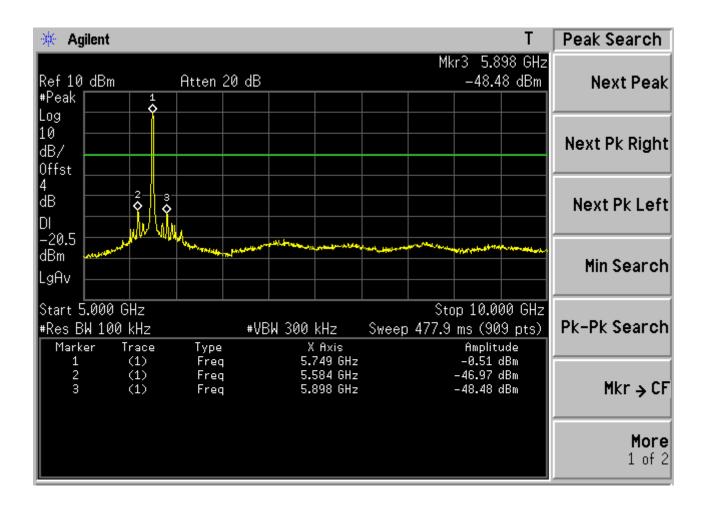
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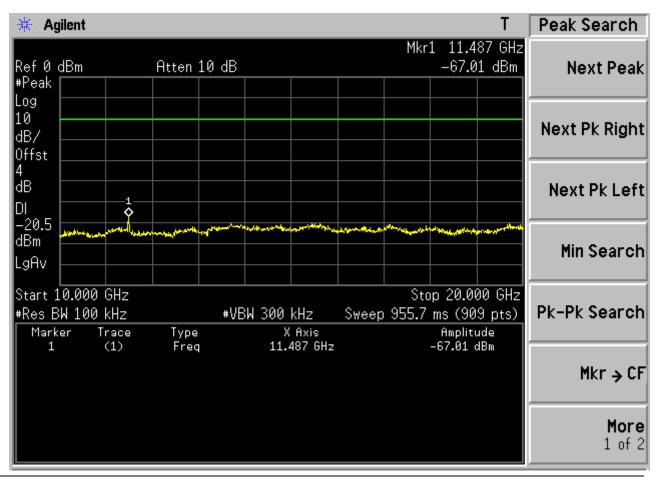
802.11n Ch 149 (5745 MHz)



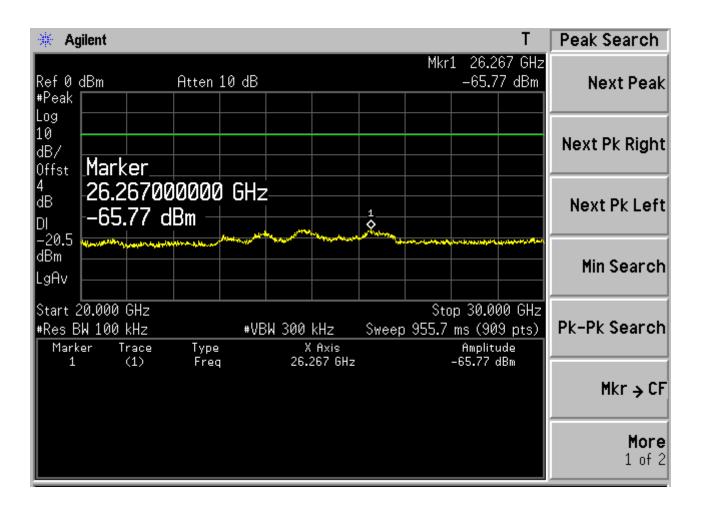


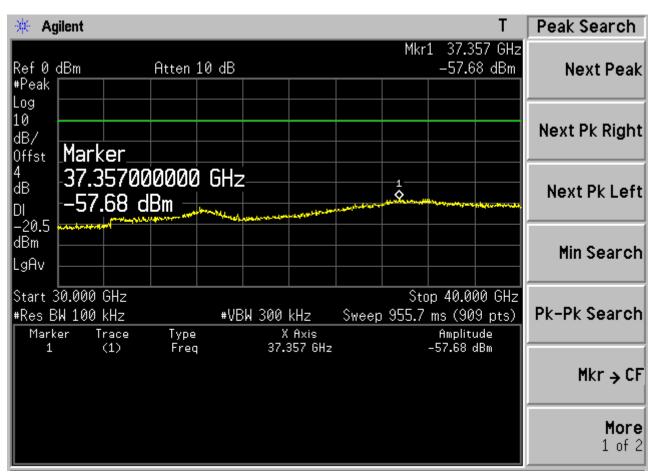
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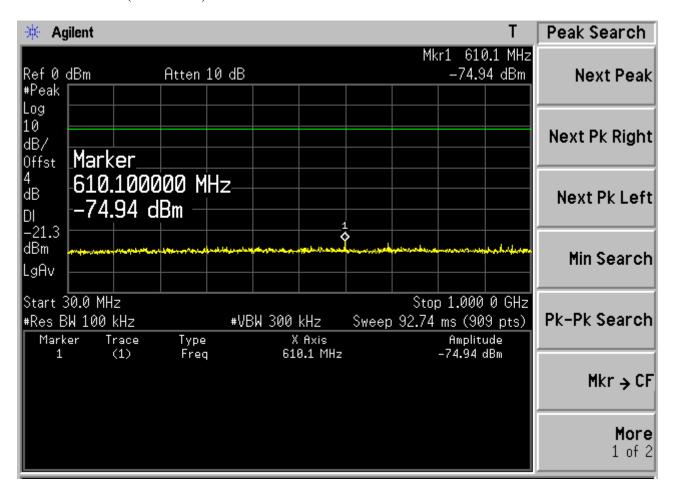
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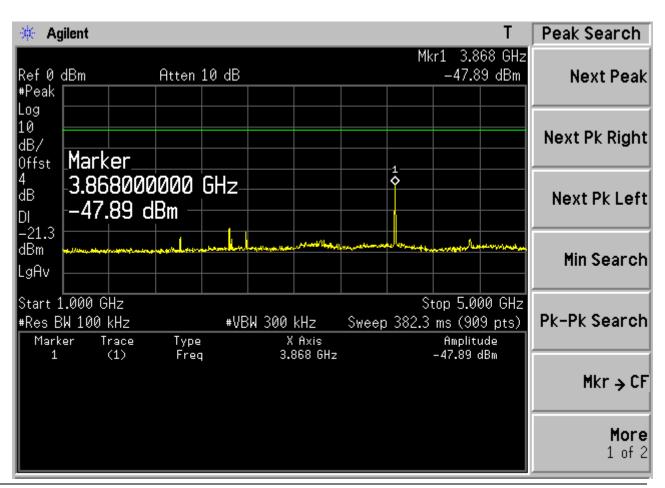




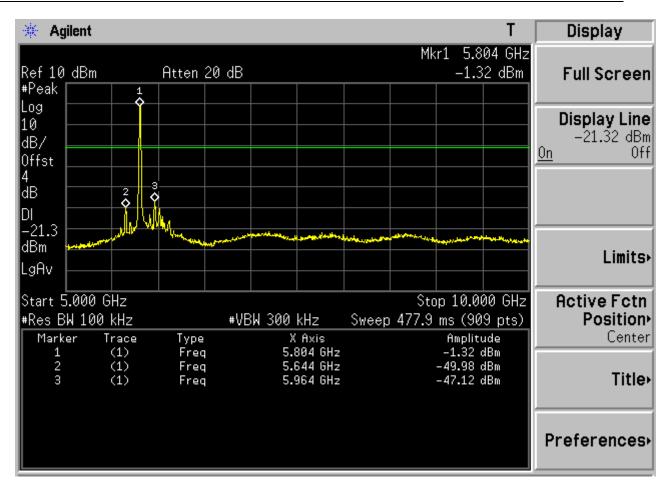
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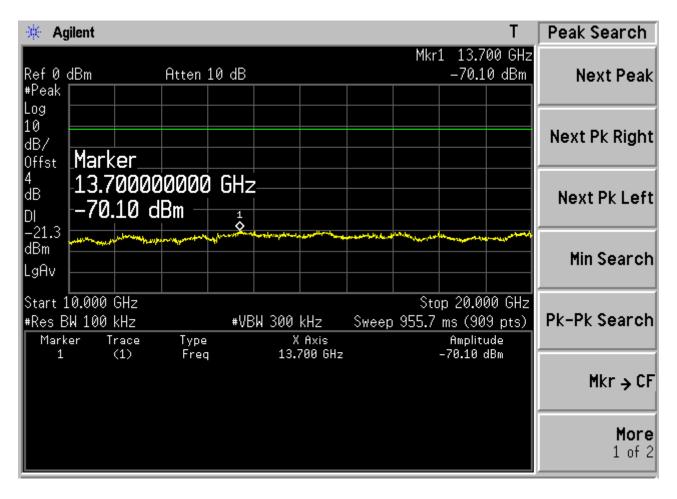
802.11n Ch 161 (5805 MHz)



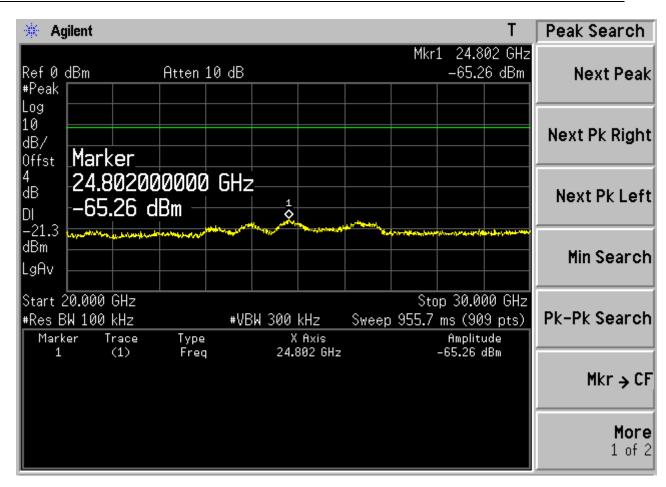


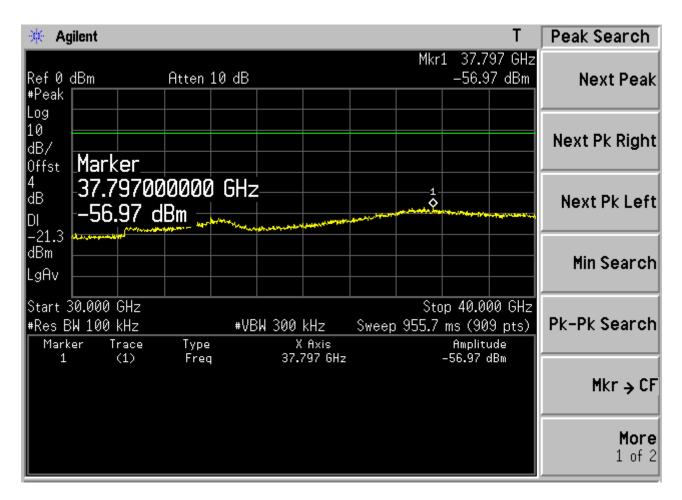
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8 BAND EDGES MEASUREMENT

8.1 Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	Sep 11, 2012	Sep 11, 2013
2.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013

8.2 Block Diagram of Test Setup

The same as section.5.2.

8.3 Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

8.4 Operating Condition of EUT

The test program "adb shell" was used to enable the EUT to transmit data at different channel frequency individually.

8.5 Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

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8.6 Test Results

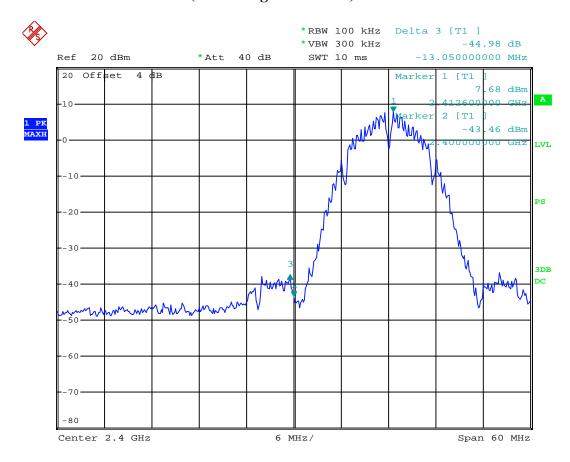
PASSED. All the test results are attached in next pages.

(Test Date: Mar. 01 - 15, 2013 Temperature: 24°C Humidity: 46 %)

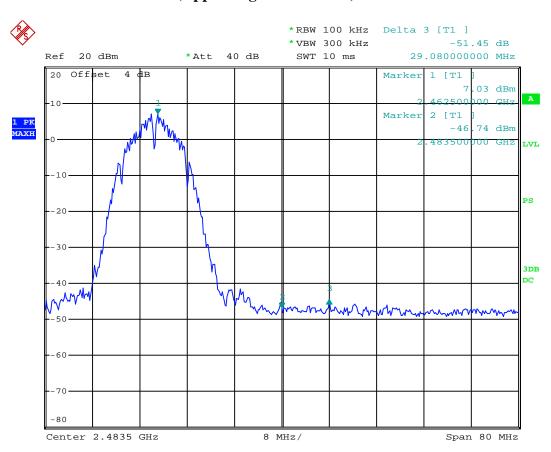
Modulation	Location	Channel	Frequency	Delta Marker	Result
002 111	Below Band Edge	01	2412 MHz	44.98 dB	
802.11b	Upper Band Edge	11	2462 MHz	51.45 dB	
002.11-	Below Band Edge	01	2412 MHz	38.06 dB	
802.11g	Upper Band Edge	11	2462 MHz	44.87 dB	
802.11n	Below Band Edge	01	2412 MHz	37.03 dB	More than 20 dB below the highest
HT20	Upper Band Edge	11	2462 MHz	44.86 dB	level of the desired power
802.11a	Below Band Edge	149	5745 MHz	39.94 dB	
002.11d	Upper Band Edge	161	5805 MHz	52.35 dB	
802.11n	Below Band Edge	149	5745 MHz	43.56 dB	
HT20	Upper Band Edge	161	5805 MHz	53.03 dB	

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802.11b Ch01 2412MHz (Below Edge 2400 MHz)

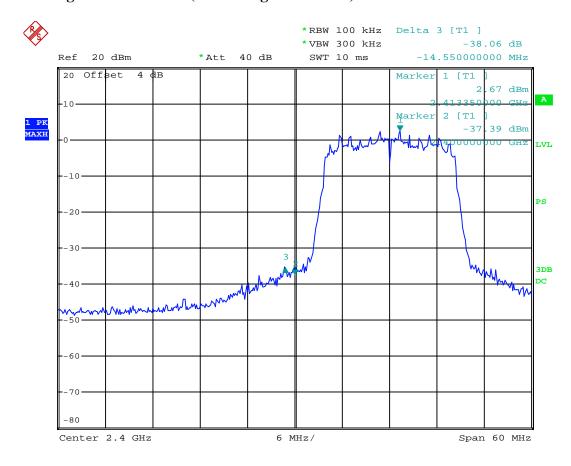


802.11b Ch11 2462MHz (Upper Edge 2483.5 MHz)

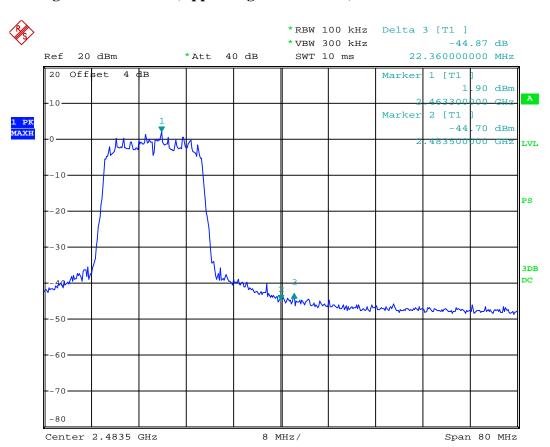


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802.11g Ch01 2412MHz (Below Edge 2400 MHz)

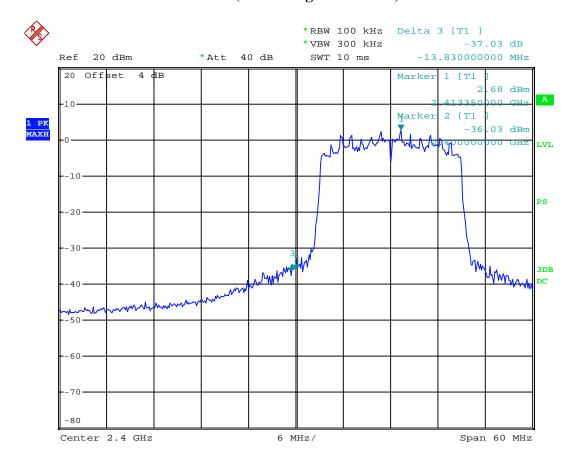


802.11g Ch11 2462MHz (Upper Edge 2483.5 MHz)

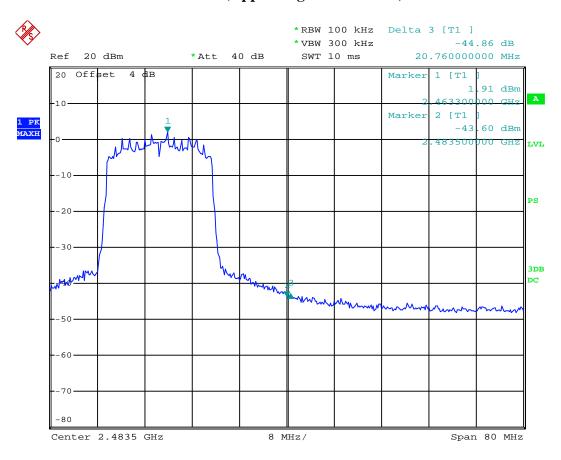


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802.11n HT20 Ch01 2412MHz (Below Edge 2400 MHz)

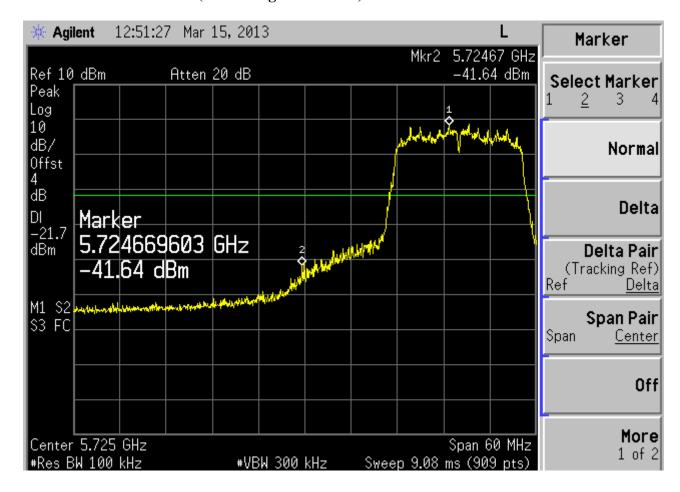


802.11n HT20 Ch11 2462MHz (Upper Edge 2483.5 MHz)

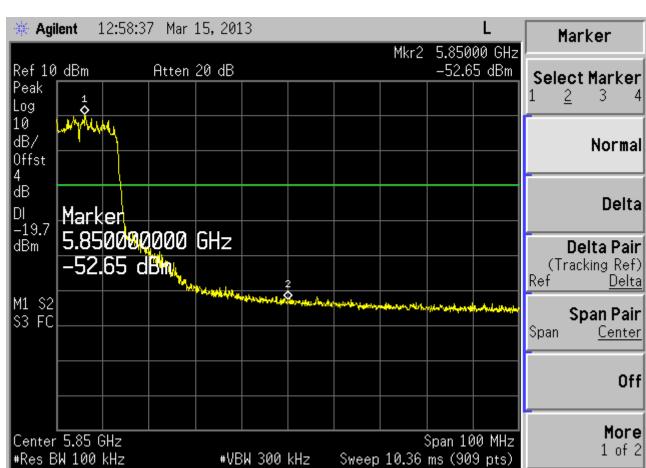


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802.11a Ch149 5745MHz (Below Edge 5725 MHz)

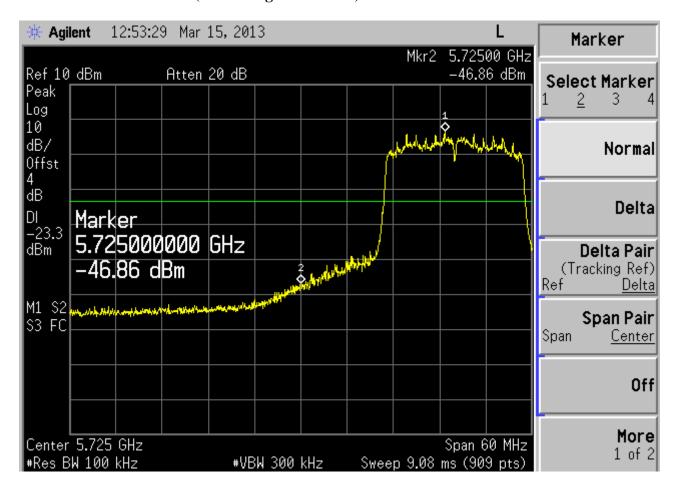


802.11a Ch161 5805MHz (Upper Edge 5850 MHz)

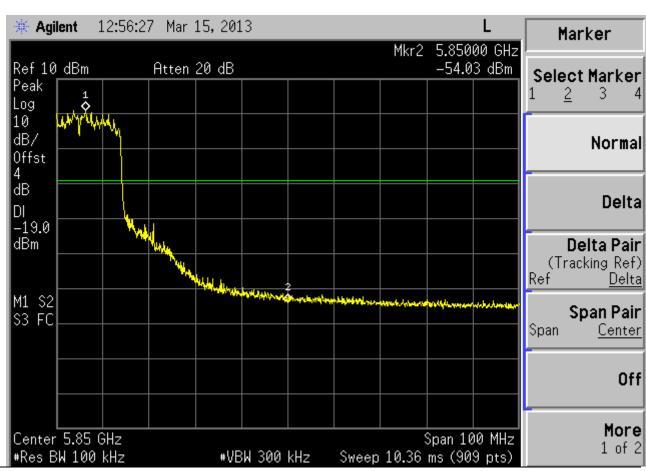


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802.11n Ch149 5745MHz (Below Edge 5725 MHz)



802.11n Ch161 5805MHz (Upper Edge 5850 MHz)



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9 POWER SPECTRAL DENSITY MEASUREMENT

9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Iter	m Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	Sep 11, 2012	Sep 11, 2013
2.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Mar 22, 2012	Mar 22, 2013

9.2 Block Diagram of Test Setup

The same as section.5.2.

9.3 Specification Limits (§15.247(e))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band.

9.4 Operating Condition of EUT

The test program "adb shelll" was used to enable the EUT to transmit data at different channel frequency individually.

9.5 Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. The spectrum analyzer was set as RBW \geq 3kHz, VBW \geq 3 x RBW, span = 1.5 times the DTS channel bandwidth.

The test procedure is defined in KDB558074 v02:2012 (the 9.1 Measurement Procedure "Option 1" was used).

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9.6 Test Results

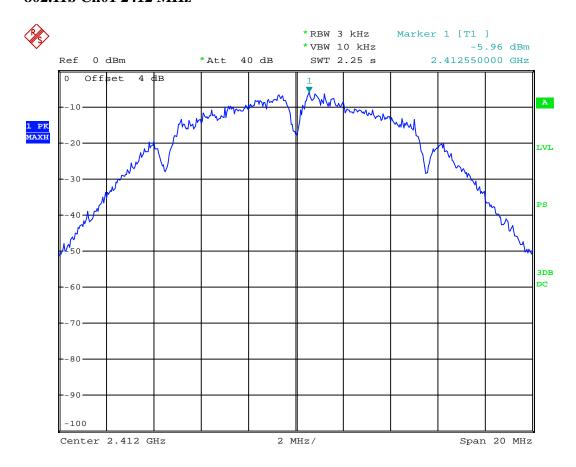
PASSED. All the test results are attached in next pages.

(Test Date: Mar. 01 - 04, 2013 Temperature: 24°C Humidity: 46 %)

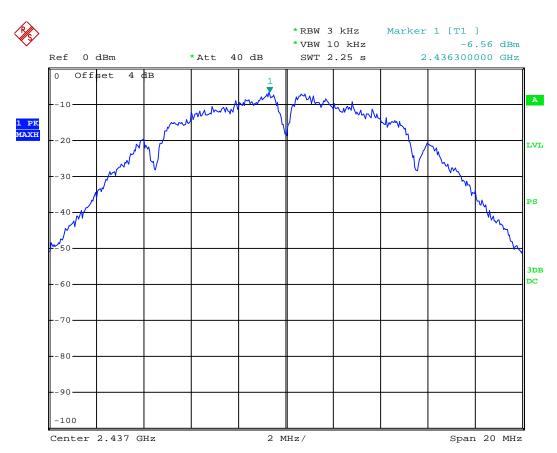
Modulation	odulation Channel		Power Spectral Density	Limit
	01	2412 MHz	-5.96 dBm	8dBm
802.11b	06	2437 MHz	-6.56 dBm	8dBm
	11	2462 MHz	-6.52 dBm	8dBm
	01	2412 MHz	-10.59 dBm	8dBm
802.11g	06	2437 MHz	-10.88 dBm	8dBm
	11	2462 MHz	-10.61 dBm	8dBm
000 11	01	2412 MHz	-10.81 dBm	8dBm
802.11n HT20	06	2437 MHz	-11.18 dBm	8dBm
11120	11	2462 MHz	-11.05 dBm	8dBm
	149	5745 MHz	-12.73 dBm	8dBm
802.11a	157	5785 MHz	-11.03 dBm	8dBm
	161	5805 MHz	-12.01 dBm	8dBm
000 11	149	5745 MHz	-11.44 dBm	8dBm
802.11n HT20	157	5785 MHz	-11.62 dBm	8dBm
11120	161	5805 MHz	-10.29 dBm	8dBm

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802.11b Ch01 2412 MHz

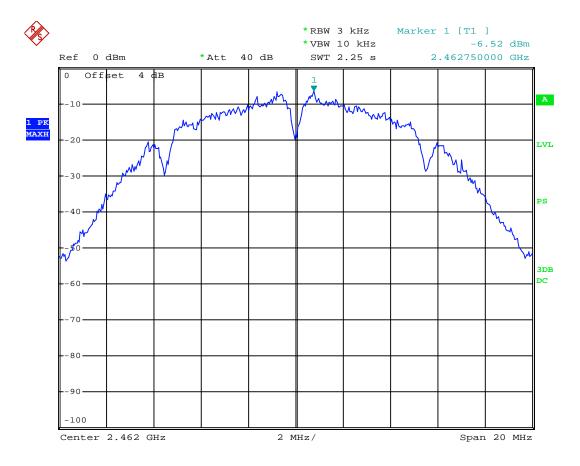


802.11b Ch06 2437 MHz



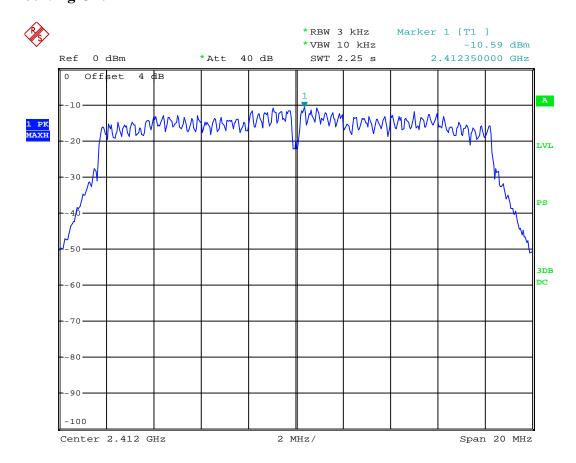
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802.11b Ch11 2462 MHz

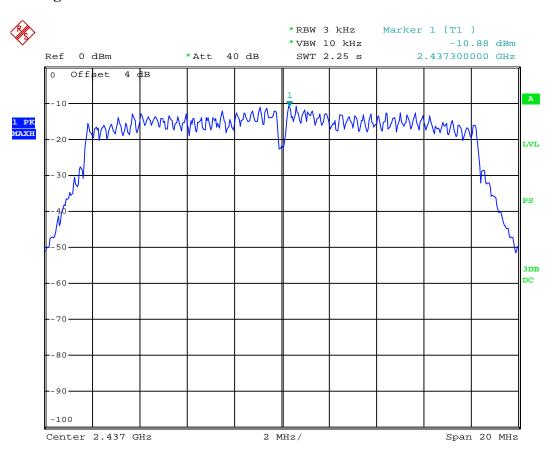


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802.11g Ch01 2412 MHz

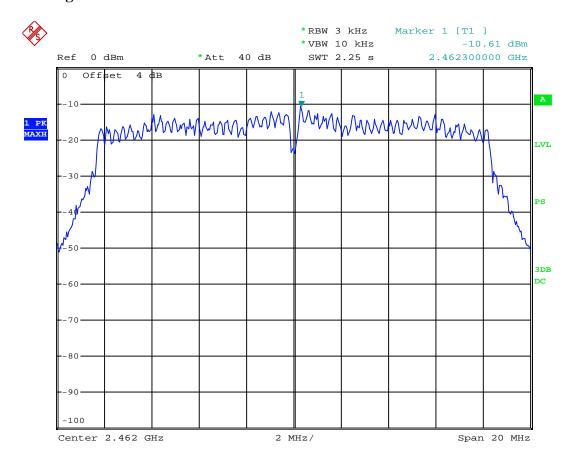


802.11g Ch06 2437 MHz



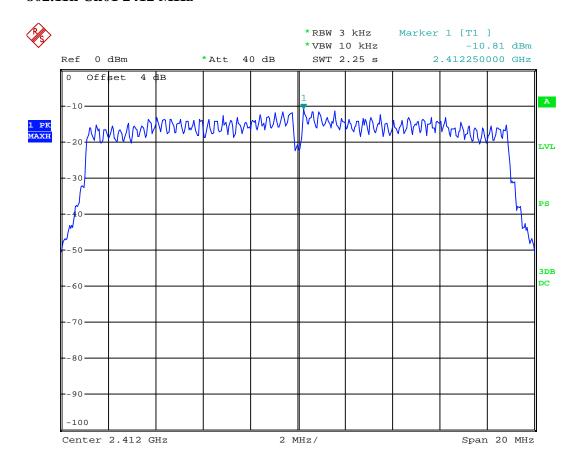
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802.11g Ch11 2462 MHz

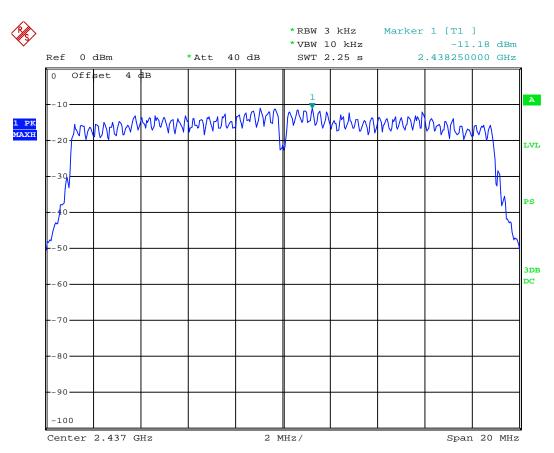


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802.11n Ch01 2412 MHz

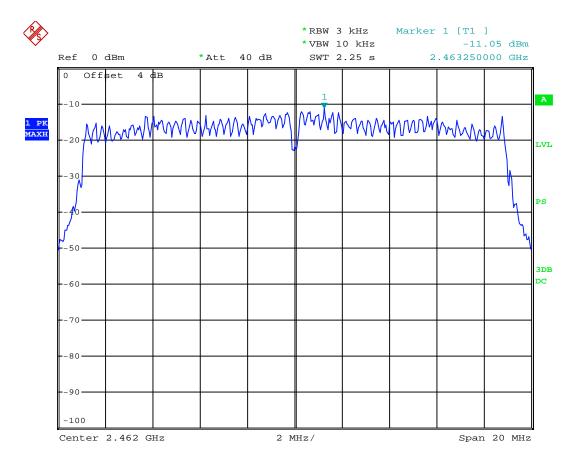


802.11n Ch06 2437 MHz



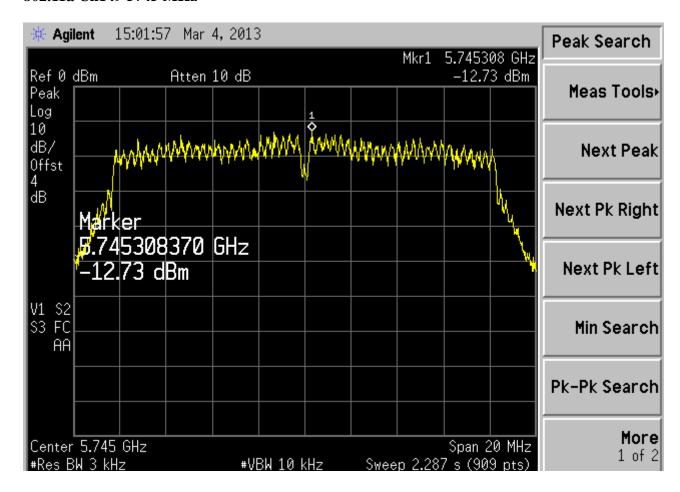
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802.11n Ch11 2462 MHz

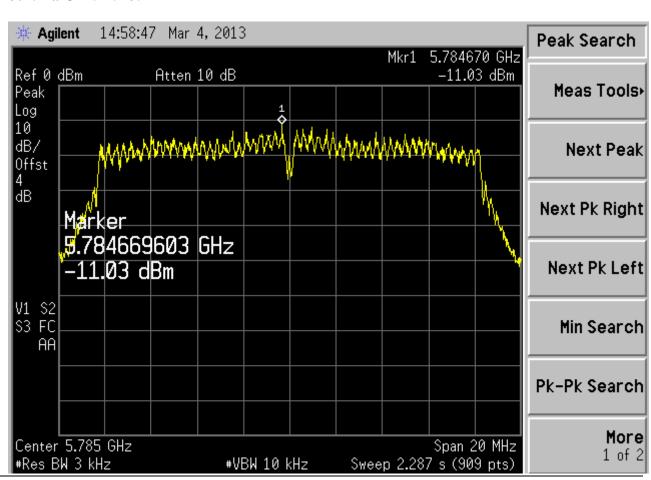


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802.11a Ch149 5745 MHz

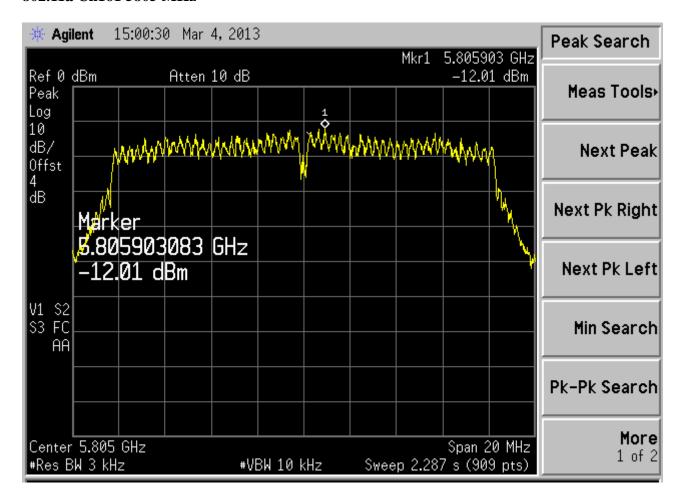


802.11a Ch157 5785 MHz



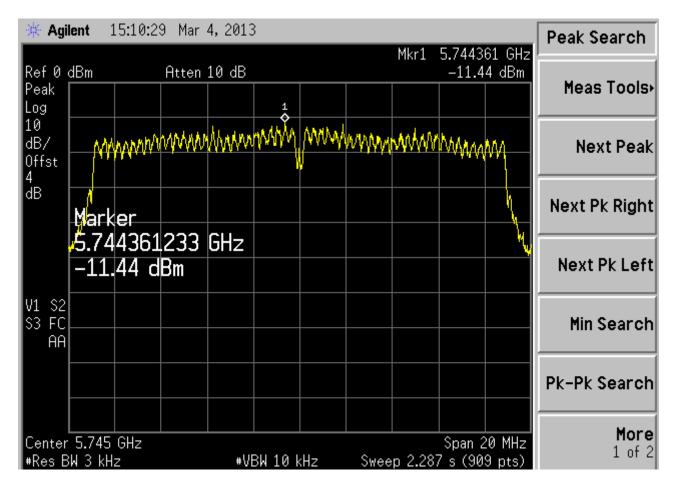
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802.11a Ch161 5805 MHz

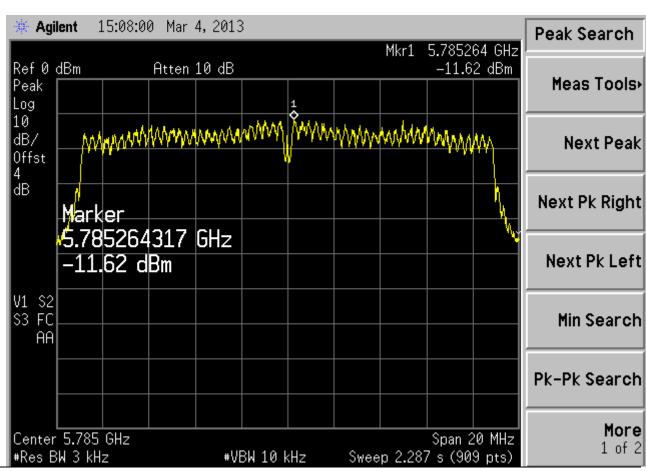


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802.11n Ch149 5745 MHz

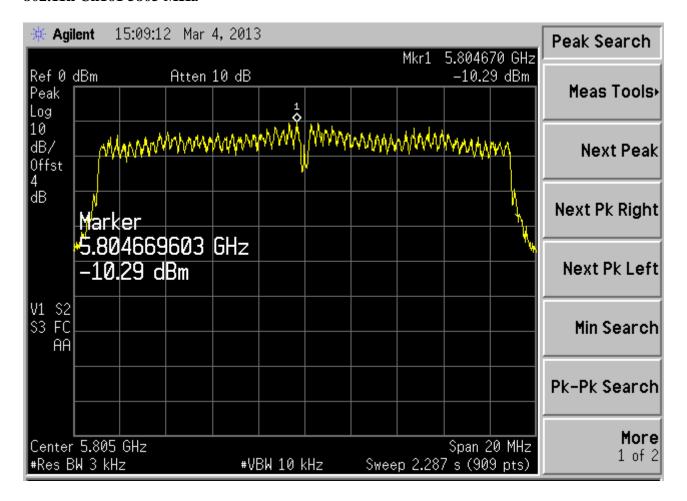


802.11n Ch157 5785 MHz



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802.11n Ch161 5805 MHz



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10 DEVIATION TO TEST SPECIFICATIONS

None.

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