Application for FCC Certification
On behalf of

Hisense Broadband Multimedia Technologies Co., Ltd

Product Name: GPON SFU

Model No.: 7269G, 7268G

Brand Name: Hisense, iPHOTONIX, Ligent, Adtran

FCC ID: R66002

Prepared For: Hisense Broadband Multimedia Technologies Co., Ltd
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

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Report No. : ACI-F14079
Date of Test : May 09 – 16, 2014
Date of Report : May 21, 2014

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TEST REPORT FOR FCC CERTIFICATE

Applicant	:	Hisense Broadband Multimedia Technologies Co., Ltd
Manufacturer	:	Hisense Broadband Multimedia Technologies Co., Ltd
EUT Description	:	GPON SFU
		(A) Model No. : 7269G, 7268G
		(B) Brand Name : Hisense, iPHOTONIX, Ligent, Adtran
		(C) Test Voltage : AC 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2013 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: Refer to Sec2.1), which was tested on May 09 – 16, 2014 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-F140308, a Declaration of Conformity report.

Date of Test : May 09 – 16, 2014 Date of Report : May 21, 2014

Producer : EMILY ZHU / Assistant

Review : DIO YANG / Deputy Manager

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

Signatory :
Authorized Signature EMC SAMMY CHEN/ Deputy Manager

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 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.209(a) 15.205(a)(c)
6 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.247(a)(2)
Maximum Peak Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.247(b)(3)
Emission Limitations Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.247(d)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.247(d)
Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND KDB558074 D01 v03r01	Pass	15.247(e)

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : GPON SFU

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

Model Number : 7269G, 7268G

Brand Name : Hisense, iPHOTONIX, Ligent, Adtran

Note : The different list between these two models are as follows:

M/N: 7269G	2POTS+2GE+CATV+ Return+WiFi+HPNA
M/N: 7268G	2POTS+2GE+CATV +WiFi+HPNA

The model 7269G was tested and reported in the report.

Radio Tech : IEEE 802.11b/g/n (2.4GHz)
(CDD is not supported)

Freq. Band : 2412MHz ~ 2462MHz (Ch1-Ch11) for 802.11b/g
2412MHz ~ 2462MHz (Ch1-Ch11) for 802.11n 20MHz Band
2422MHz ~ 2452MHz (Ch3-Ch9) for 802.11n 40MHz Band

Tested Freq. : for 802.11b/g/n HT20
2412MHz (Ch1), 2437MHz (Ch6), 2462MHz (Ch11)
for 802.11n HT40
2422MHz (Ch3), 2437MHz (Ch6), 2452MHz (Ch9)

Modulation : DSSS for 802.11b
OFDM for 802.11g/n

Transmit data rate : 802.11b: 1, 2, 5.5, 11 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n HT20:
(MCS0-MCS7) 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps
802.11n HT40:
(MCS0-MCS7) 13.5, 27, 40.5, 54, 81, 108, 121.5, 135 Mbps
After testing, the highest peak output power of the EUT was at **1Mbps** in 802.11b mode, **6Mbps** in 802.11g mode, **6.5Mbps** in 802.11n HT20 mode and **13.5Mbps** in 802.11n HT40 mode.
So data rate mentioned above were representative selected to test in this report.

Antenna Gain	:	3.12 dBi (for both ANT1 & ANT2)	
AC Adapter	:	Manufacturer	: Shenzhen Gongjin Electronics Co., Ltd.
		Model Number	: S24B12-120A200-Y4
		Input	: 100-240V~ 50/60Hz Max 0.7A
		Output	: 12V ⎓ 2A
		Output Cable	: Unshielded, Undetachable, 1.8m
Applicant	:	Hisense Broadband Multimedia Technologies Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China	
Manufacturer	:	Hisense Broadband Multimedia Technologies Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China	

2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
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 : 3F 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 = 2.77 dB
Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.17dB (Horizontal)
U = 4.02dB (Vertical)
Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 3.38dB (Horizontal)
U = 3.28dB (Vertical)
Radiated Emission Expanded Uncertainty (Above 1GHz):
U= 4.68 dB (Horizontal)
U= 4.87 dB (Vertical)
6 dB Bandwidth Expanded Uncertainty : U = $\pm 1 \times 10^{-8}$ MHz
Maximum Peak Output Power Expanded Uncertainty: U = ±1.56 dB
Emission Limitations Expanded Uncertainty : U = ±1.20 dB
Band Edge Expanded Uncertainty : U = ±1.20 dB
Power Spectral Density Expanded Uncertainty : U = ±1.20 dB

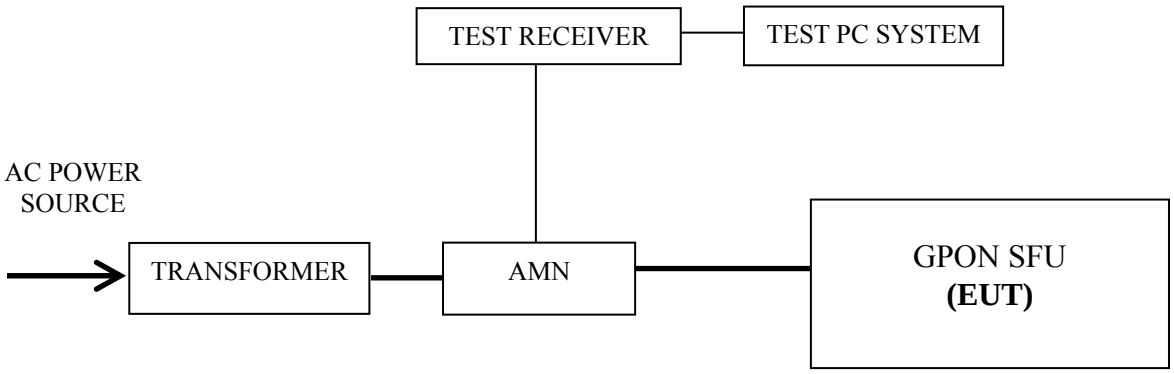
3 CONDUCTED EMISSION TEST

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	101303	Sep 11, 2013	Sep 10, 2014
2.	Artificial Mains Network (AMN)	R&S	ENV4200	100125	Jun 27, 2013	Jun 06, 2014
3.	Pulse Limiter	Yalian	TTS-1	001	Nov 27, 2013	May 26, 2014
4.	Software	Audix	E3	6.111206	--	--

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 (MHz)	Conducted Limit (dBμV)	
	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.

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 0.158 MHz (Quasi-Peak Value) with corrected signal level of 58.91 dB (μV) (limit is 65.56 dB (μV)), when the Line of the EUT is connected to AMN.

EUT :	GPON SFU	Temperature :	25℃
Model No. :	7269G	Humidity :	47%RH
Test Mode :	Transmitting	Date of Test :	May 13, 2014

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	**0.158**	**38.80**	**20.11**	**58.91**	**65.56**	**6.65**	QP
	0.213	31.40	20.05	51.45	63.09	11.64	
	0.311	17.80	19.99	37.79	59.95	22.16	
	0.487	19.50	19.93	39.43	56.21	16.78	
	0.871	10.10	19.91	30.01	56.00	25.99	
	13.850	13.30	20.10	33.40	60.00	26.60	
	0.158	26.30	20.11	46.41	55.56	9.15	AV
	0.213	19.50	20.05	39.55	53.09	13.54	
	0.311	6.30	19.99	26.29	49.95	23.66	
	0.487	11.30	19.93	31.23	46.21	14.98	
	0.871	2.40	19.91	22.31	46.00	23.69	
	13.850	7.40	20.10	27.50	50.00	22.50	
Neutral	0.181	32.60	20.07	52.67	64.43	11.76	QP
	0.228	26.90	20.03	46.93	62.54	15.61	
	0.271	21.00	20.00	41.00	61.09	20.09	
	0.414	15.89	19.95	35.84	57.57	21.73	
	0.505	15.20	19.92	35.12	56.00	20.88	
	13.570	13.40	20.21	33.61	60.00	26.39	
	0.181	21.40	20.07	41.47	54.43	12.96	AV
	0.228	16.20	20.03	36.23	52.54	16.31	
	0.271	10.30	20.00	30.30	51.09	20.79	
	0.414	8.89	19.95	28.84	47.57	18.73	
	0.505	8.40	19.92	28.32	46.00	17.68	
	13.570	7.50	20.21	27.71	50.00	22.29	

TEST ENGINEER: ERIC TANG

4 RADIATED EMISSION TEST

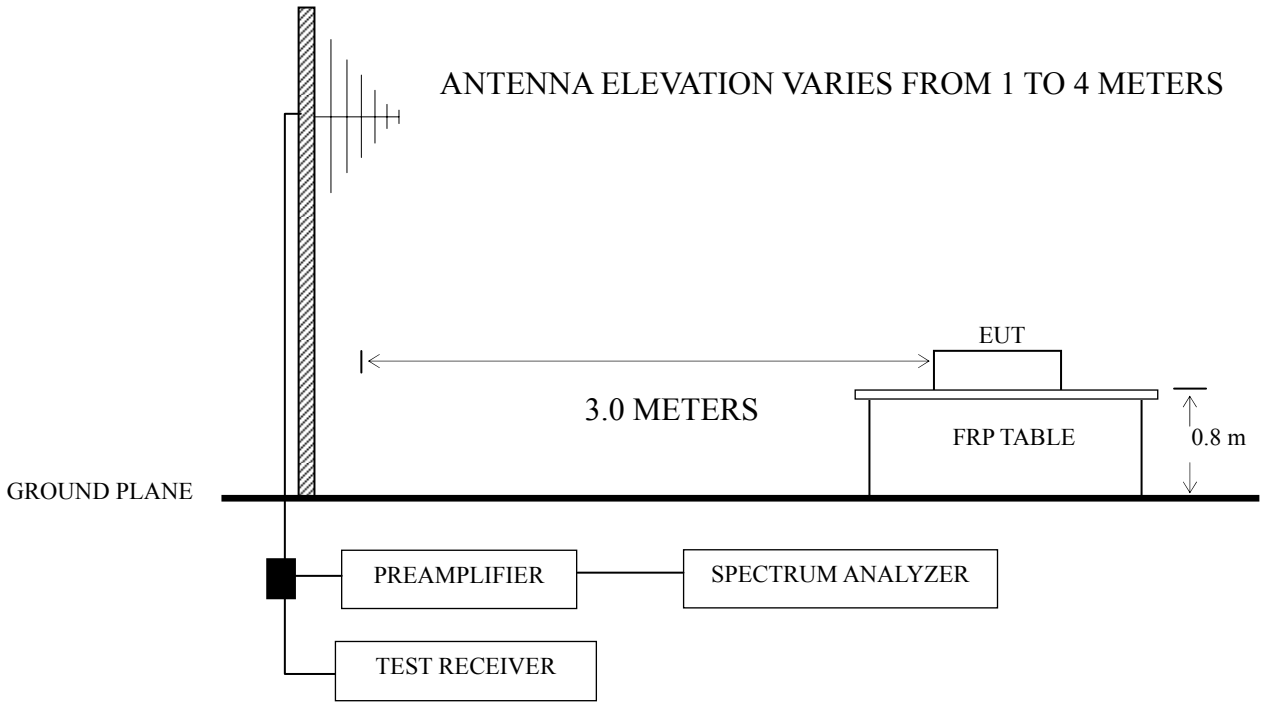
4.1 Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2014	Sep 17, 2014
2.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2014	Mar 19, 2015
3.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Nov 11, 2013	Nov 10, 2014
4.	Test Receiver	R&S	ESCI	101302	Sep 03, 2013	Sep 02, 2014
5.	Bi-log Antenna	TESEQ	CBL6112D	23192	Nov 25, 2013	Nov 25, 2014
6.	Horn Antenna	EMCO	3115	00062964	Oct 10, 2013	Oct 09, 2014
7.	Horn Antenna	EMCO	3116	00062643	Jul 03, 2013	Jul 02, 2014
8.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2014	Sep 17, 2014
9.	Software	Audix	E3	6.2007-9-10	--	--

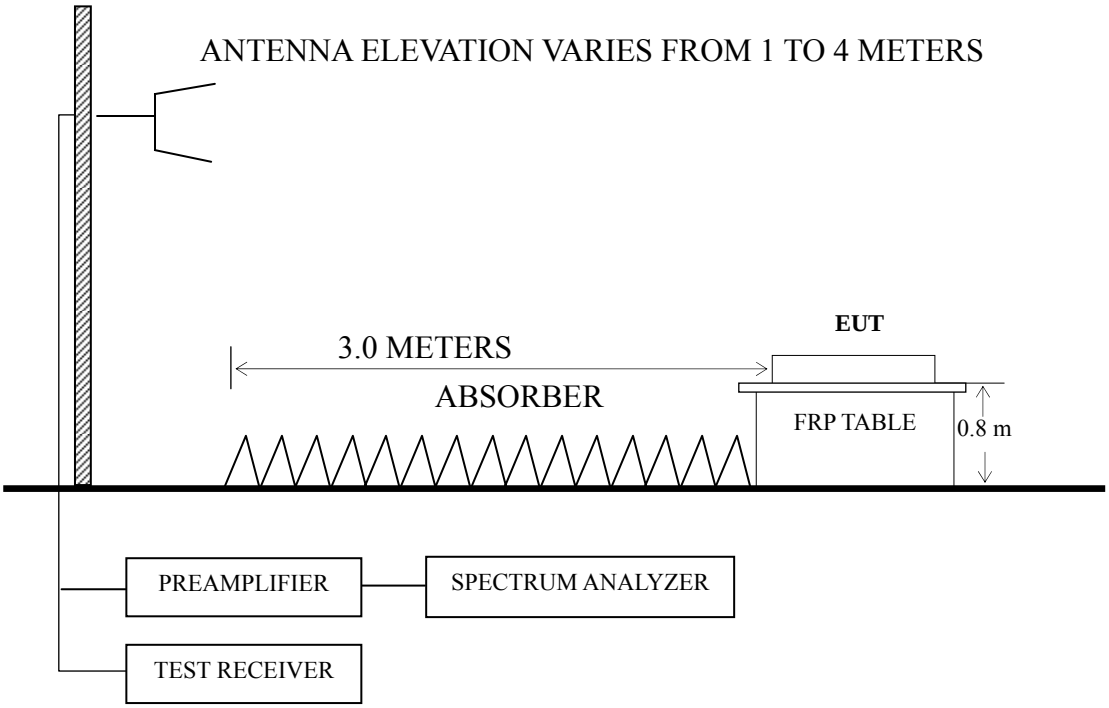
4.2 Block Diagram of Test Setup

4.2.1 Below 1GHz



■ : 50 ohm Coaxial Switch

4.2.2 Above 1GHz



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

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/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 (μV/m) = 20 log Emission Level (μV/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 the peak measurement above 1 GHz, the RBW = 1 MHz, VBW = 3 MHz, Detector = PEAK; For the average measurement above 1 GHz, according to the KDB 558074 D01 v03r01 with RBW = 1 MHz, VBW = 3 MHz, Detector = RMS, trace average of at least 100 traces for spurious emissions and 2310-2390MHz restricted band; RBW = 100 kHz, VBW = 300 kHz, Detector = RMS, trace average of at least 100 traces for 2483.5-2500MHz restricted band. 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.

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 ESCI was set at 120 kHz from 30MHz to 1000MHz.

The frequency range from 30 MHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked.

The EUT was tested under the following test modes:

Mode	Operation	Channel
1.	Transmitting	01/03
2.		06
3.		11/09
4.	Receiving	--
5.	Transmitting Band-Edge	01/03
6.		11/09

All the test results are listed in Sec.4.7.

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	Frequency	Data Page	
1.	Transmitting	Worst case emission < 1GHz			P16	
2.		802.11b ANT1	01	2412 MHz	P17	
3.			06	2437 MHz		
4.			11	2462 MHz		
5.		802.11b ANT2	01	2412 MHz	P18	
6.			06	2437 MHz		
7.			11	2462 MHz		
8.		802.11g ANT1	01	2412 MHz	P19	
9.			06	2437 MHz		
10.			11	2462 MHz		
11.		802.11g ANT2	01	2412 MHz	P20	
12.			06	2437 MHz		
13.			11	2462 MHz		
14.		802.11n HT20 ANT1+ANT2	01	2412 MHz	P21	
15.			06	2437 MHz		
16.			11	2462 MHz		
17.		802.11n HT40 ANT1+ANT2	03	2422 MHz	P22	
18.			06	2437 MHz		
19.			09	2452 MHz		
20.	Receiving	--	--		P23	
21.	Transmitting	802.11b ANT1	01	2412 MHz	Restricted BandEdge	P24-27
22.			11	2462 MHz		P28-31
23.		802.11b ANT2	01	2412 MHz		P32-35
24.			11	2462 MHz		P36-39
25.		802.11g ANT1	01	2412 MHz		P40-43
26.			11	2462 MHz		P44-47
27.		802.11g ANT2	01	2412 MHz		P48-51
28.			11	2462 MHz		P52-55
29.		802.11n HT20 ANT1+ANT2	01	2412 MHz		P56-59
30.			11	2462 MHz		P60-63
31.		802.11n HT40 ANT1+ANT2	03	2422 MHz		P64-67
32.			09	2452 MHz		P68-71

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss (<1GHz)
NOTE 2 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor (>1GHz)
NOTE 3 – 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.

Worst case emission < 1GHz

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	Transmitting	Date of Test :	May 13, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	32.98	13.65	16.48	0.67	30.80	40.00	9.20	QP
	250.30	25.72	11.80	2.15	39.67	46.00	6.33	
	280.02	**26.33**	**12.50**	**2.35**	**41.18**	**46.00**	**4.82**	
	362.99	17.81	15.23	2.62	35.66	46.00	10.34	
	499.43	18.91	18.10	2.90	39.91	46.00	6.09	
	750.11	13.62	18.60	3.56	35.78	46.00	10.22	
Vertical	250.30	24.46	11.80	2.15	38.41	46.00	7.59	QP
	280.02	23.35	12.50	2.35	38.20	46.00	7.80	
	326.74	22.40	14.00	2.56	38.96	46.00	7.04	
	345.60	**24.90**	**14.70**	**2.60**	**42.20**	**46.00**	**3.80**	
	457.51	18.14	16.55	2.81	37.50	46.00	8.50	
	906.48	12.82	20.00	4.53	37.35	46.00	8.65	

TEST ENGINEER: NEAL WANG

Radiated Emission > 1GHz

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11b ANT1 Transmitting	Date of Test :	May 13, 2014

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
Horizontal	1999.00	47.55	31.00	4.42	35.90	47.07	74.00	26.93	Peak
	4824.00	45.33	30.60	6.34	35.66	46.61	74.00	27.39	Peak
	7236.00	42.42	35.10	9.53	36.10	50.95	74.00	23.05	Peak
Vertical	1729.00	54.95	28.59	4.10	36.10	51.54	74.00	22.46	Peak
	4824.00	45.62	30.60	6.34	35.66	46.90	74.00	27.10	Peak
	7236.00	42.47	35.10	9.53	36.10	51.00	74.00	23.00	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	1999.00	47.22	31.00	4.42	35.90	46.74	74.00	27.26	Peak
	4874.00	44.56	30.34	6.23	35.67	45.46	74.00	28.54	Peak
	7273.00	43.10	35.21	9.52	36.11	51.72	74.00	22.28	Peak
Vertical	1990.00	52.37	30.92	4.39	35.91	51.77	74.00	22.23	Peak
	4874.00	46.12	30.34	6.23	35.67	47.02	74.00	26.98	Peak
	7311.00	41.97	35.44	9.52	36.13	50.80	74.00	23.20	Peak

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
Horizontal	4348.00	45.32	32.55	6.62	35.51	48.98	74.00	25.02	Peak
	4924.00	43.93	30.10	6.12	35.68	44.47	74.00	29.53	Peak
	7386.00	43.10	35.88	9.51	36.16	52.33	74.00	21.67	Peak
Vertical	1999.00	50.89	31.00	4.42	35.90	50.41	74.00	23.59	Peak
	4924.00	48.09	30.10	6.12	35.68	48.63	74.00	25.37	Peak
	7386.00	43.19	35.88	9.51	36.16	52.42	74.00	21.58	Peak

TEST ENGINEER: NEAL WANG

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11b ANT2 Transmitting	Date of Test :	May 13, 2014

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
Horizontal	3871.00	45.69	32.90	5.88	35.46	49.01	74.00	24.99	Peak
	4824.00	45.81	30.60	6.34	35.66	47.09	74.00	26.91	Peak
	7264.00	43.84	35.21	9.53	36.11	52.47	74.00	21.53	Peak
Vertical	1999.00	52.66	31.00	4.42	35.90	52.18	74.00	21.82	Peak
	4824.00	45.27	30.60	6.34	35.66	46.55	74.00	27.45	Peak
	7291.00	44.61	35.33	9.52	36.12	53.34	74.00	20.66	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	3781.00	46.66	32.54	5.96	35.50	49.66	74.00	24.34	Peak
	4874.00	45.68	30.34	6.23	35.67	46.58	74.00	27.42	Peak
	7311.00	42.83	35.44	9.52	36.13	51.66	74.00	22.34	Peak
Vertical	1999.00	52.62	31.00	4.42	35.90	52.14	74.00	21.86	Peak
	4874.00	46.34	30.34	6.23	35.67	47.24	74.00	26.76	Peak
	7311.00	42.14	35.44	9.52	36.13	50.97	74.00	23.03	Peak

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
Horizontal	1999.00	48.47	31.00	4.42	35.90	47.99	74.00	26.01	Peak
	4924.00	46.08	30.10	6.12	35.68	46.62	74.00	27.38	Peak
	7363.00	42.99	35.77	9.52	36.15	52.13	74.00	21.87	Peak
Vertical	1999.00	52.82	31.00	4.42	35.90	52.34	74.00	21.66	Peak
	4924.00	46.80	30.10	6.12	35.68	47.34	74.00	26.66	Peak
	7381.00	43.16	35.88	9.51	36.16	52.39	74.00	21.61	Peak

TEST ENGINEER: NEAL WANG

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11g ANT1 Transmitting	Date of Test :	May 13, 2014

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
Horizontal	1711.00	56.63	28.42	4.08	36.12	53.01	74.00	20.99	Peak
	4824.00	42.49	30.60	6.34	35.66	43.77	74.00	30.23	Peak
	7236.00	41.71	35.10	9.53	36.10	50.24	74.00	23.76	Peak
Vertical	1999.00	53.50	31.00	4.42	35.90	53.02	74.00	20.98	Peak
	4824.00	43.50	30.60	6.34	35.66	44.78	74.00	29.22	Peak
	7236.00	42.31	35.10	9.53	36.10	50.84	74.00	23.16	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	3772.00	46.63	32.49	5.96	35.51	49.57	74.00	24.43	Peak
	4874.00	43.62	30.34	6.23	35.67	44.52	74.00	29.48	Peak
	7311.00	42.08	35.44	9.52	36.13	50.91	74.00	23.09	Peak
Vertical	1954.00	53.82	30.68	4.35	35.93	52.92	74.00	21.08	Peak
	4874.00	43.97	30.34	6.23	35.67	44.87	74.00	29.13	Peak
	7311.00	42.15	35.44	9.52	36.13	50.98	74.00	23.02	Peak

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
Horizontal	1999.00	49.36	31.00	4.42	35.90	48.88	74.00	25.12	Peak
	4924.00	46.21	30.10	6.12	35.68	46.75	74.00	27.25	Peak
	7386.00	43.18	35.88	9.51	36.16	52.41	74.00	21.59	Peak
Vertical	1990.00	52.15	30.92	4.39	35.91	51.55	74.00	22.45	Peak
	4924.00	46.53	30.10	6.12	35.68	47.07	74.00	26.93	Peak
	7386.00	42.56	35.88	9.51	36.16	51.79	74.00	22.21	Peak

TEST ENGINEER: NEAL WANG

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11g ANT2 Transmitting	Date of Test :	May 13, 2014

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
Horizontal	1729.00	54.21	28.59	4.10	36.10	50.80	74.00	23.20	Peak
	4824.00	43.41	30.60	6.34	35.66	44.69	74.00	29.31	Peak
	7264.00	43.10	35.21	9.53	36.11	51.73	74.00	22.27	Peak
Vertical	1990.00	52.30	30.92	4.39	35.91	51.70	74.00	22.30	Peak
	4824.00	43.02	30.60	6.34	35.66	44.30	74.00	29.70	Peak
	7236.00	42.29	35.10	9.53	36.10	50.82	74.00	23.18	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	3682.00	47.70	32.10	5.99	35.56	50.23	74.00	23.77	Peak
	4888.00	44.66	30.28	6.23	35.67	45.50	74.00	28.50	Peak
	7282.00	43.26	35.33	9.52	36.12	51.99	74.00	22.01	Peak
Vertical	1882.00	52.93	30.13	4.24	35.98	51.32	74.00	22.68	Peak
	4874.00	43.52	30.34	6.23	35.67	44.42	74.00	29.58	Peak
	7291.00	42.21	35.33	9.52	36.12	50.94	74.00	23.06	Peak

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
Horizontal	1999.00	47.67	31.00	4.42	35.90	47.19	74.00	26.81	Peak
	4924.00	42.41	30.10	6.12	35.68	42.95	74.00	31.05	Peak
	7372.00	43.82	35.77	9.52	36.16	52.95	74.00	21.05	Peak
Vertical	1999.00	54.04	31.00	4.42	35.90	53.56	74.00	20.44	Peak
	4933.00	44.63	30.10	6.12	35.68	45.17	74.00	28.83	Peak
	7386.00	41.99	35.88	9.51	36.16	51.22	74.00	22.78	Peak

TEST ENGINEER: NEAL WANG

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11n HT20 ANT1+ANT2 Transmitting	Date of Test :	May 13, 2014

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
Horizontal	1666.00	51.22	27.94	4.05	36.16	47.05	74.00	26.95	Peak
	4824.00	42.28	30.60	6.34	35.66	43.56	74.00	30.44	Peak
	7309.00	44.29	35.44	9.52	36.13	53.12	74.00	20.88	Peak
Vertical	1990.00	52.82	30.92	4.39	35.91	52.22	74.00	21.78	Peak
	4824.00	43.90	30.60	6.34	35.66	45.18	74.00	28.82	Peak
	7255.00	43.45	35.21	9.53	36.11	52.08	74.00	21.92	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	1990.00	48.93	30.92	4.39	35.91	48.33	74.00	25.67	Peak
	4874.00	43.78	30.34	6.23	35.67	44.68	74.00	29.32	Peak
	7311.00	41.60	35.44	9.52	36.13	50.43	74.00	23.57	Peak
Vertical	1990.00	53.08	30.92	4.39	35.91	52.48	74.00	21.52	Peak
	4874.00	44.22	30.34	6.23	35.67	45.12	74.00	28.88	Peak
	7300.00	43.01	35.44	9.52	36.13	51.84	74.00	22.16	Peak

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
Horizontal	1990.00	50.59	30.92	4.39	35.91	49.99	74.00	24.01	Peak
	4924.00	46.08	30.10	6.12	35.68	46.62	74.00	27.38	Peak
	7386.00	43.32	35.88	9.51	36.16	52.55	74.00	21.45	Peak
Vertical	1873.00	53.88	30.04	4.24	35.99	52.17	74.00	21.83	Peak
	4924.00	46.78	30.10	6.12	35.68	47.32	74.00	26.68	Peak
	7386.00	43.26	35.88	9.51	36.16	52.49	74.00	21.51	Peak

TEST ENGINEER: NEAL WANG

EUT	:	GPON SFU	Temperature :	25℃
Model No.	:	7269G	Humidity :	45%RH
Test Mode	:	802.11n HT40 ANT1+ANT2 Transmitting	Date of Test :	May 13, 2014

Ch03

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	4844.00	43.38	30.47	6.23	35.66	44.42	74.00	29.58	Peak
	6652.00	44.79	33.73	8.27	35.97	50.82	74.00	23.18	Peak
	7282.00	43.35	35.33	9.52	36.12	52.08	74.00	21.92	Peak
Vertical	1990.00	52.65	30.92	4.39	35.91	52.05	74.00	21.95	Peak
	4844.00	44.18	30.47	6.23	35.66	45.22	74.00	28.78	Peak
	7266.00	43.54	35.21	9.53	36.11	52.17	74.00	21.83	Peak

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 (μV/m)	Margin (dB)	Remark
Horizontal	1990.00	48.14	30.92	4.39	35.91	47.54	74.00	26.46	Peak
	4874.00	43.00	30.34	6.23	35.67	43.90	74.00	30.10	Peak
	7318.00	43.39	35.55	9.52	36.13	52.33	74.00	21.67	Peak
Vertical	1999.00	53.27	31.00	4.42	35.90	52.79	74.00	21.21	Peak
	4874.00	42.89	30.34	6.23	35.67	43.79	74.00	30.21	Peak
	7291.00	43.49	35.33	9.52	36.12	52.22	74.00	21.78	Peak

Ch09

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	1999.00	47.19	31.00	4.42	35.90	46.71	74.00	27.29	Peak
	4904.00	43.35	30.22	6.23	35.68	44.12	74.00	29.88	Peak
	7356.00	42.47	35.66	9.52	36.15	51.50	74.00	22.50	Peak
Vertical	1990.00	51.87	30.92	4.39	35.91	51.27	74.00	22.73	Peak
	4904.00	42.31	30.22	6.23	35.68	43.08	74.00	30.92	Peak
	7356.00	43.13	35.66	9.52	36.15	52.16	74.00	21.84	Peak

TEST ENGINEER: NEAL WANG

EUT :	GPON SFU	Temperature :	25℃
Model No. :	7269G	Humidity :	45%RH
Test Mode :	Receiving	Date of Test :	May 13, 2014

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	159.78	13.68	9.24	1.58	--	24.50	43.50	19.00	QP
	250.30	**26.46**	**11.80**	**2.15**	**--**	**40.41**	**46.00**	**5.59**	
	399.03	18.99	15.53	2.68	--	37.20	46.00	8.80	
	480.53	14.02	17.90	2.86	--	34.78	46.00	11.22	
	499.43	14.08	18.10	2.90	--	35.08	46.00	10.92	
	750.11	13.92	18.60	3.56	--	36.08	46.00	9.92	
	1036.00	54.20	24.07	4.60	37.05	45.82	74.00	28.18	PK
	3754.00	46.27	32.45	5.96	35.52	49.16	74.00	24.84	
	6940.00	42.96	33.79	9.26	35.99	50.02	74.00	23.98	
Vertical	82.07	16.10	7.40	1.05	--	24.55	40.00	15.45	QP
	199.29	18.17	8.45	1.81	--	28.43	43.50	15.07	
	250.30	**26.32**	**11.80**	**2.15**	**--**	**40.27**	**46.00**	**5.73**	
	499.43	10.24	18.10	2.90	--	31.24	46.00	14.76	
	750.11	13.23	18.60	3.56	--	35.39	46.00	10.61	
	798.98	10.28	19.40	3.61	--	33.29	46.00	12.71	
	1999.00	53.42	31.00	4.42	35.90	52.94	74.00	21.06	PK
	4303.00	45.28	32.64	6.48	35.49	48.91	74.00	25.09	
	6913.00	42.30	33.79	9.26	35.99	49.36	74.00	24.64	

TEST ENGINEER: NEAL WANG

Radiated Band Edge measurement:

For 802.11b ANT1 Ch01:

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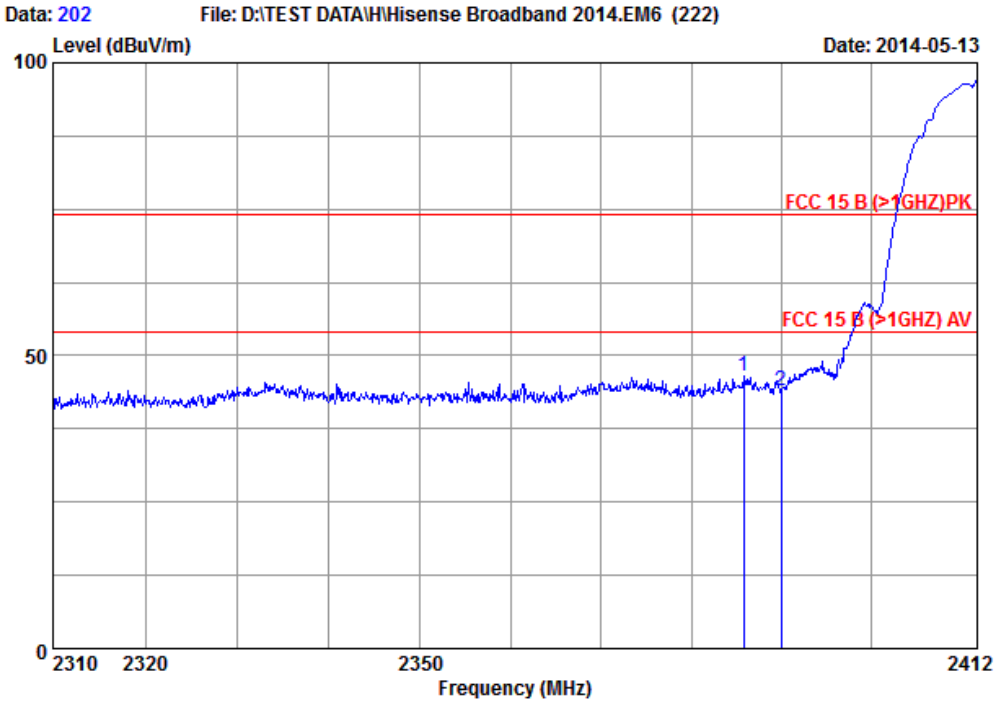

Site no : Audix ACI (3m Chamber) Data no. : 202
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.776	28.72	35.94	4.74	49.06	46.58	74.00	27.42	Peak
2	2390.000	28.72	35.94	4.74	46.42	43.94	74.00	30.06	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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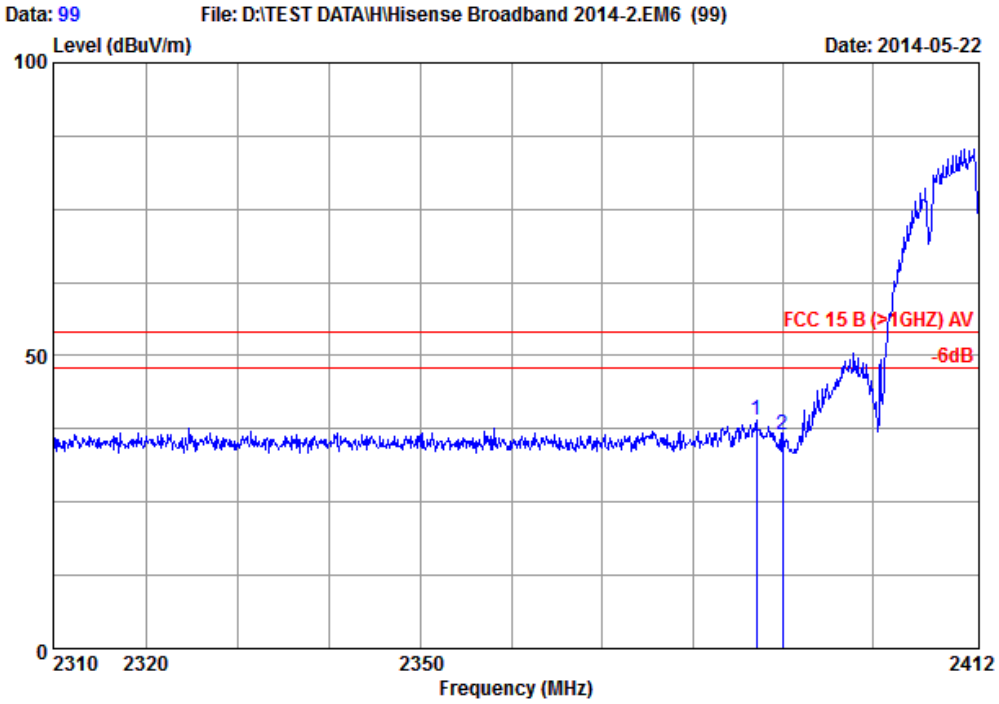

Site no : Audix ACI (3m Chamber) Data no. : 99
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.116	28.72	35.94	4.74	41.55	39.07	54.00	14.93	Average
2	2390.000	28.72	35.94	4.74	39.04	36.56	54.00	17.44	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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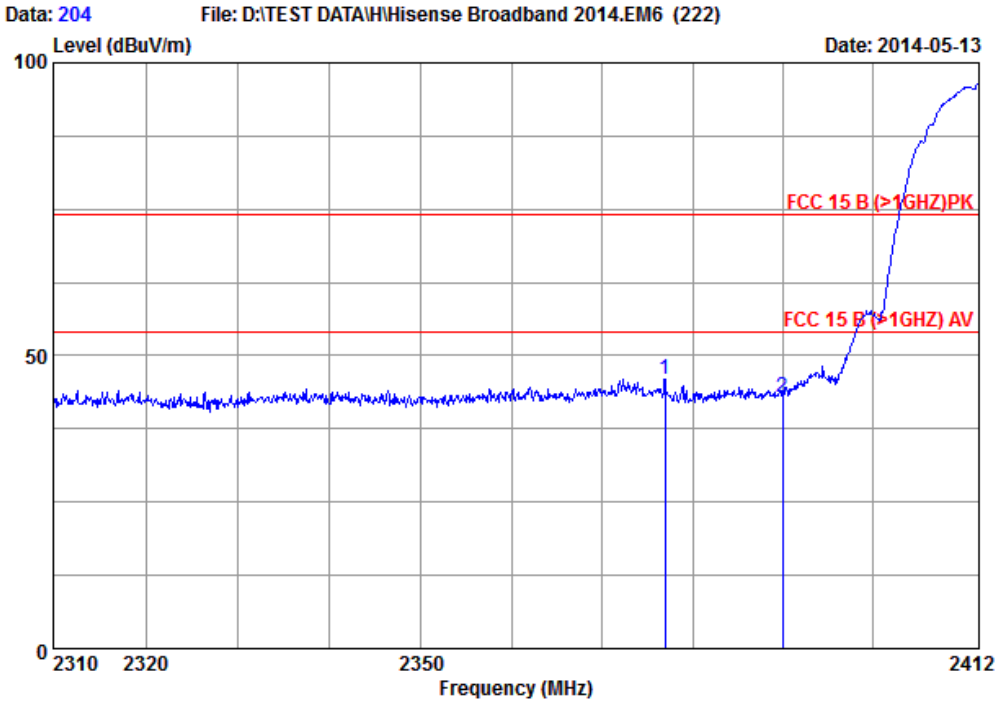

Site no : Audix ACI (3m Chamber) Data no. : 204
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.927	28.75	35.94	4.71	48.54	46.06	74.00	27.94	Peak
2	2390.000	28.72	35.94	4.74	45.39	42.91	74.00	31.09	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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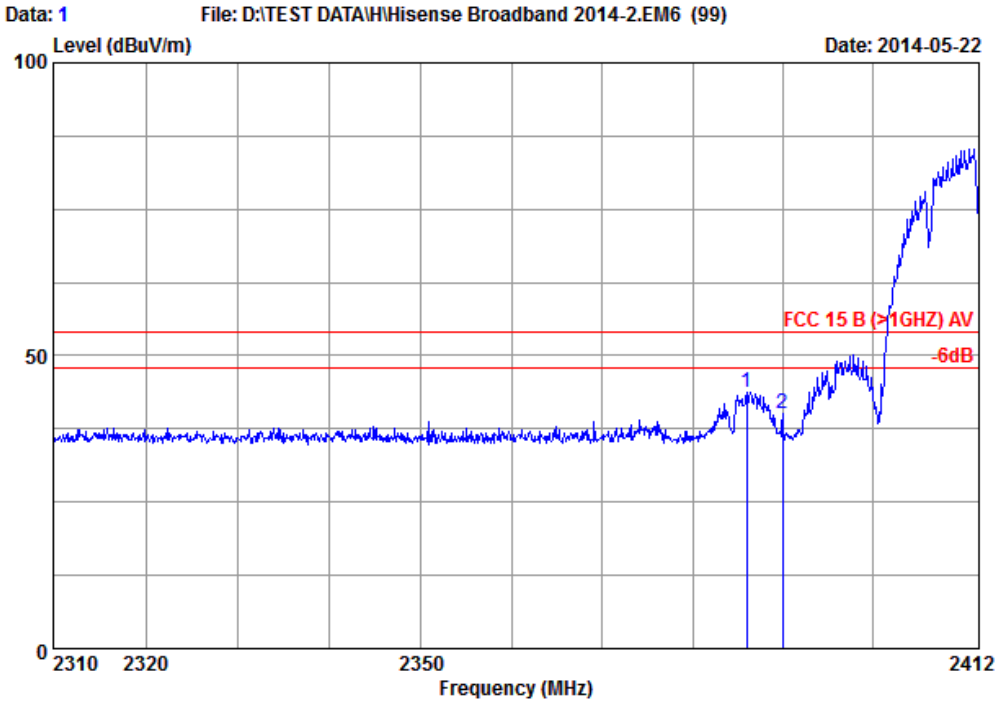

Site no : Audix ACI (3m Chamber) Data no. : 1
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.982	28.72	35.94	4.74	46.33	43.85	54.00	10.15	Average
2	2390.000	28.72	35.94	4.74	42.51	40.03	54.00	13.97	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11b ANT1 Ch11:

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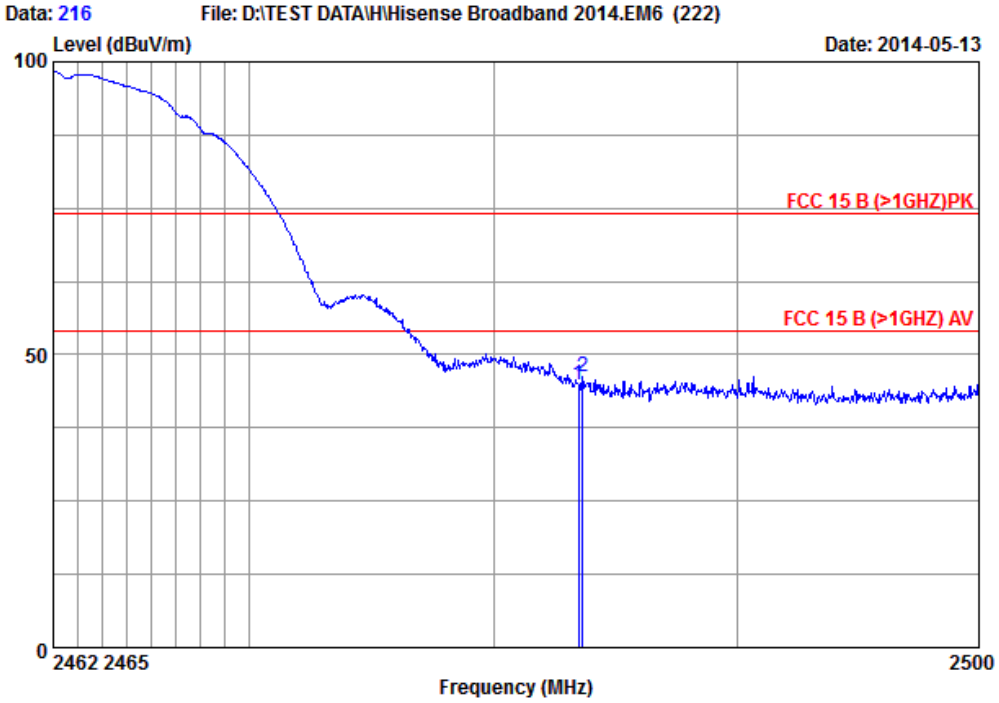

Site no : Audix ACI (3m Chamber) Data no. : 216
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.65	44.75	74.00	29.25	Peak
2	2483.665	28.26	35.95	4.79	49.16	46.26	74.00	27.74	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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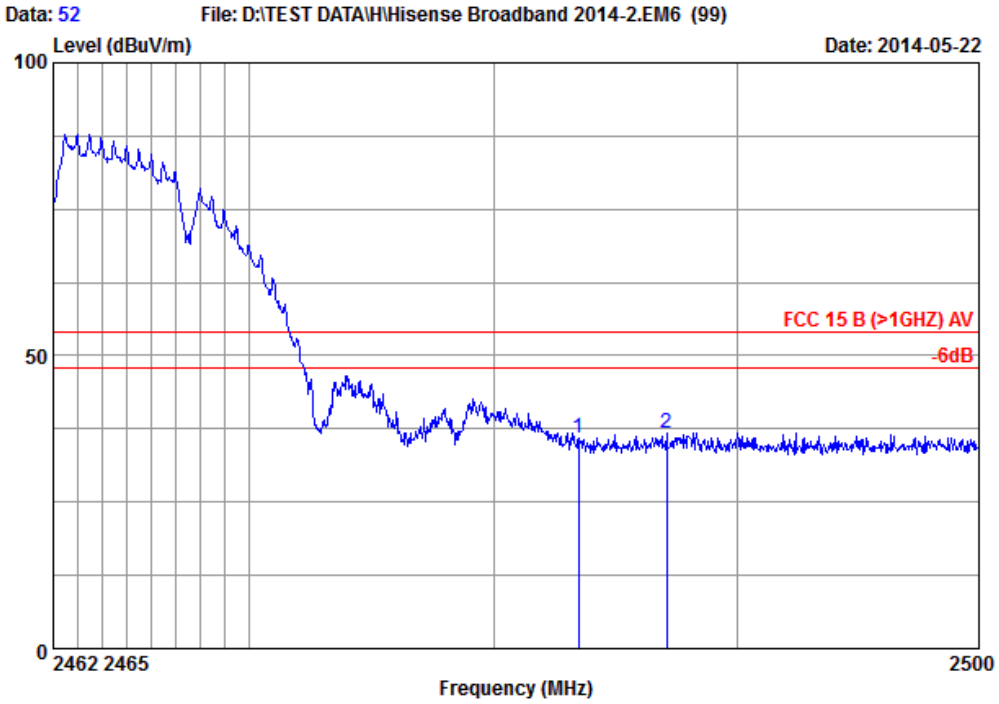

Site no : Audix ACI (3m Chamber) Data no. : 52
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	38.96	36.06	54.00	17.94	Average
2	2487.129	28.26	35.95	4.81	39.77	36.89	54.00	17.11	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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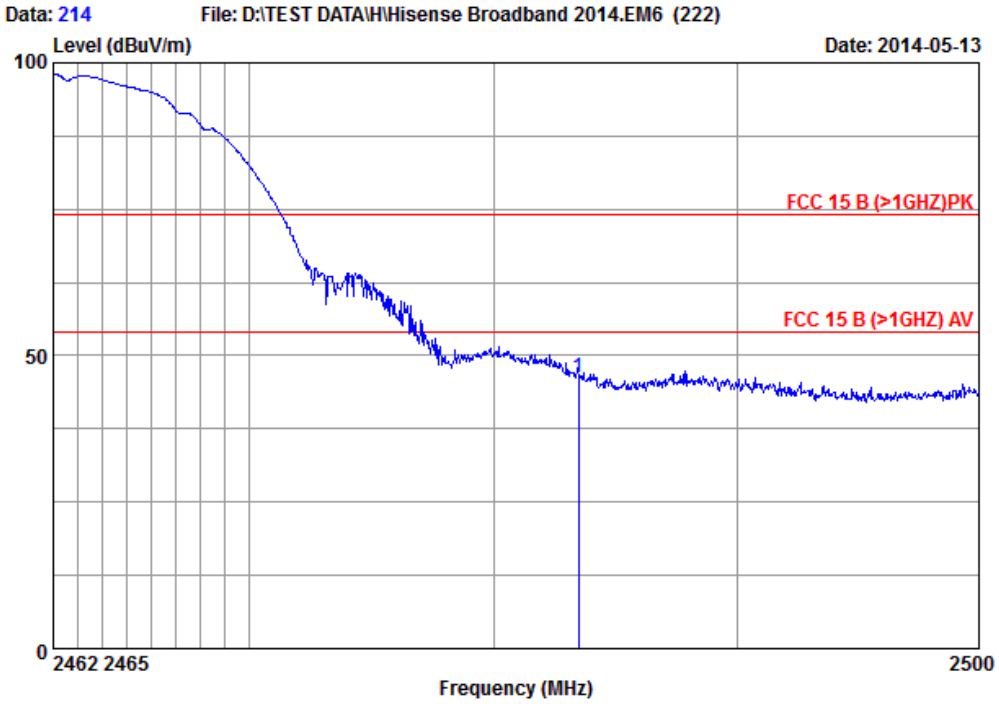

Site no : Audix ACI (3m Chamber) Data no. : 214
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	49.09	46.19	74.00	27.81	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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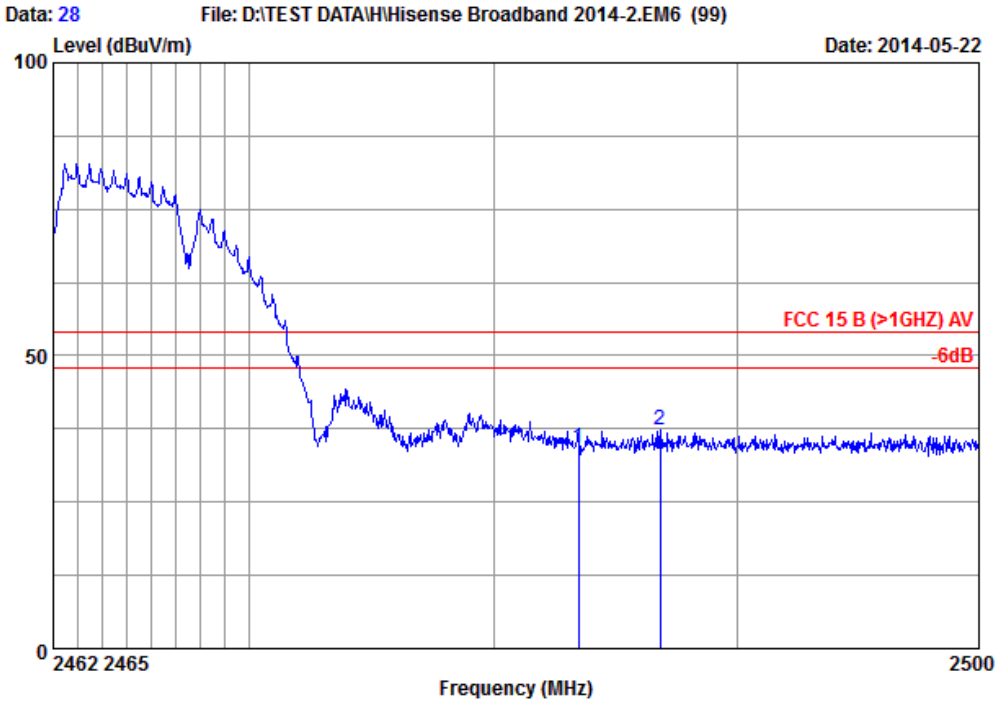

Site no : Audix ACI (3m Chamber) Data no. : 28
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.26	34.36	54.00	19.64	Average
2	2486.862	28.26	35.95	4.81	40.17	37.29	54.00	16.71	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11b ANT2 Ch01:

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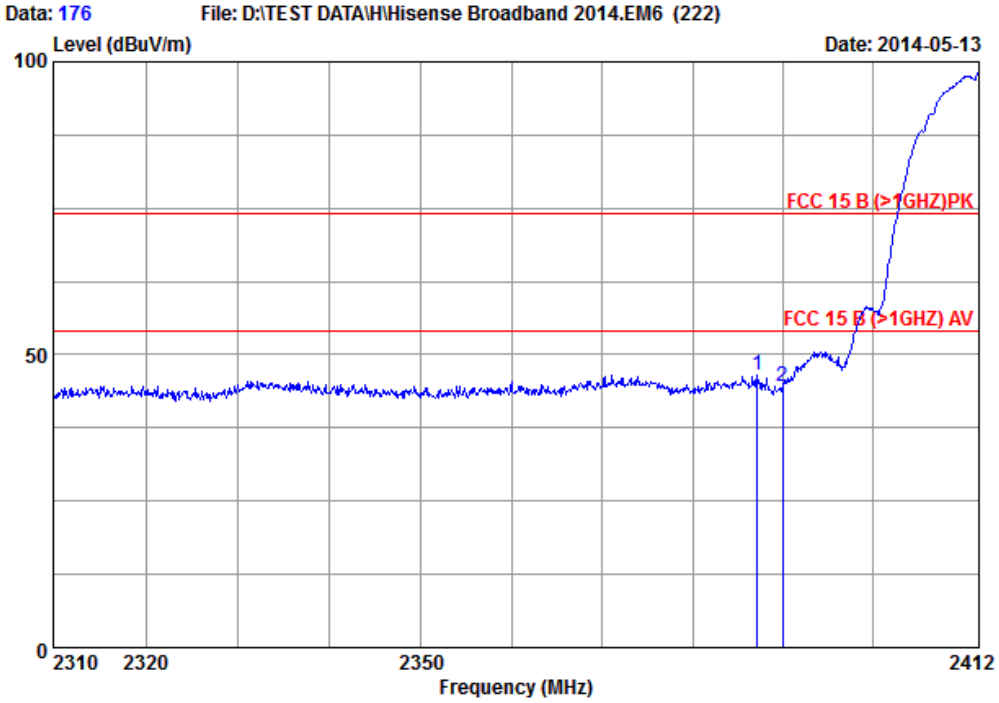

Site no : Audix ACI (3m Chamber) Data no. : 176
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.220	28.72	35.94	4.74	48.90	46.42	74.00	27.58	Peak
2	2390.000	28.72	35.94	4.74	47.01	44.53	74.00	29.47	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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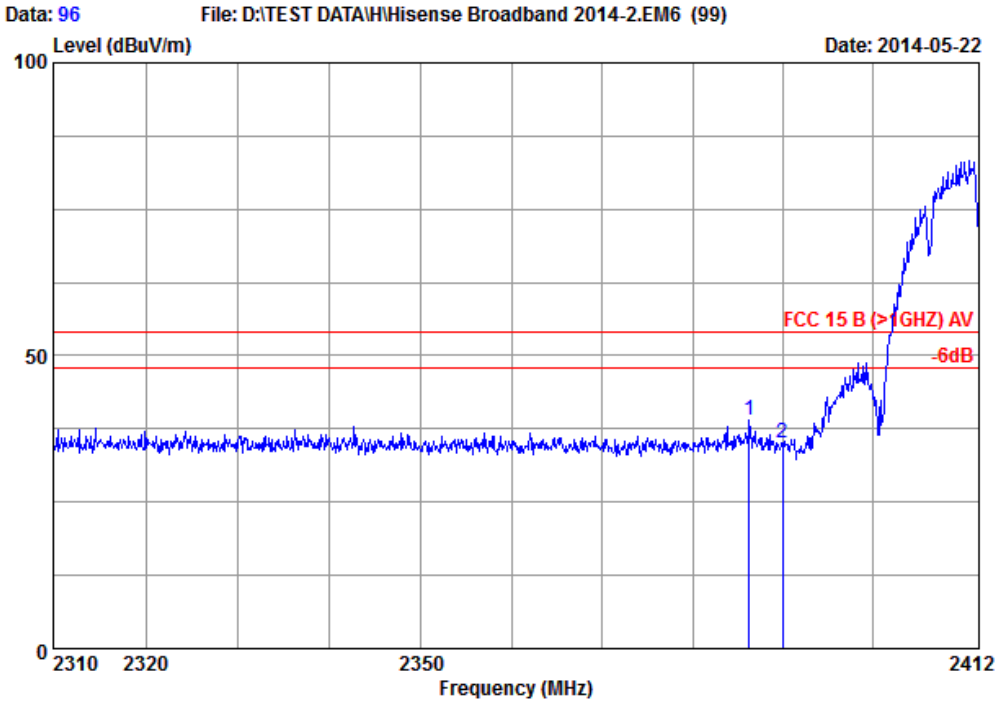

Site no : Audix ACI (3m Chamber) Data no. : 96
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.292	28.72	35.94	4.74	41.51	39.03	54.00	14.97	Average
2	2390.000	28.72	35.94	4.74	37.50	35.02	54.00	18.98	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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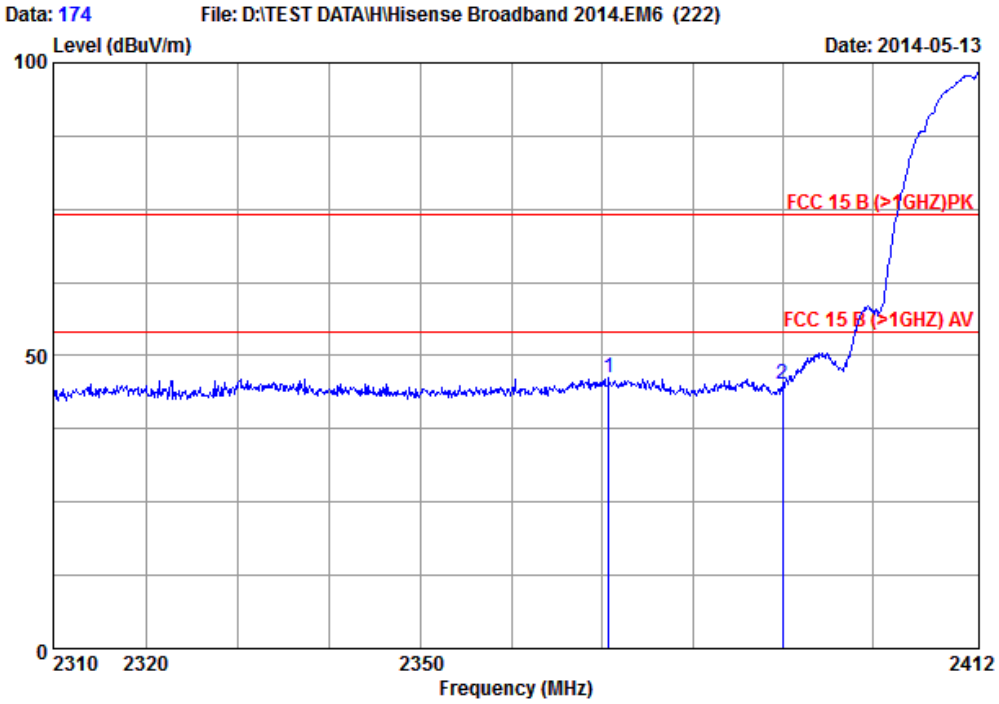

Site no : Audix ACI (3m Chamber) Data no. : 174
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2370.670	28.79	35.94	4.71	48.63	46.19	74.00	27.81	Peak
2	2390.000	28.72	35.94	4.74	47.62	45.14	74.00	28.86	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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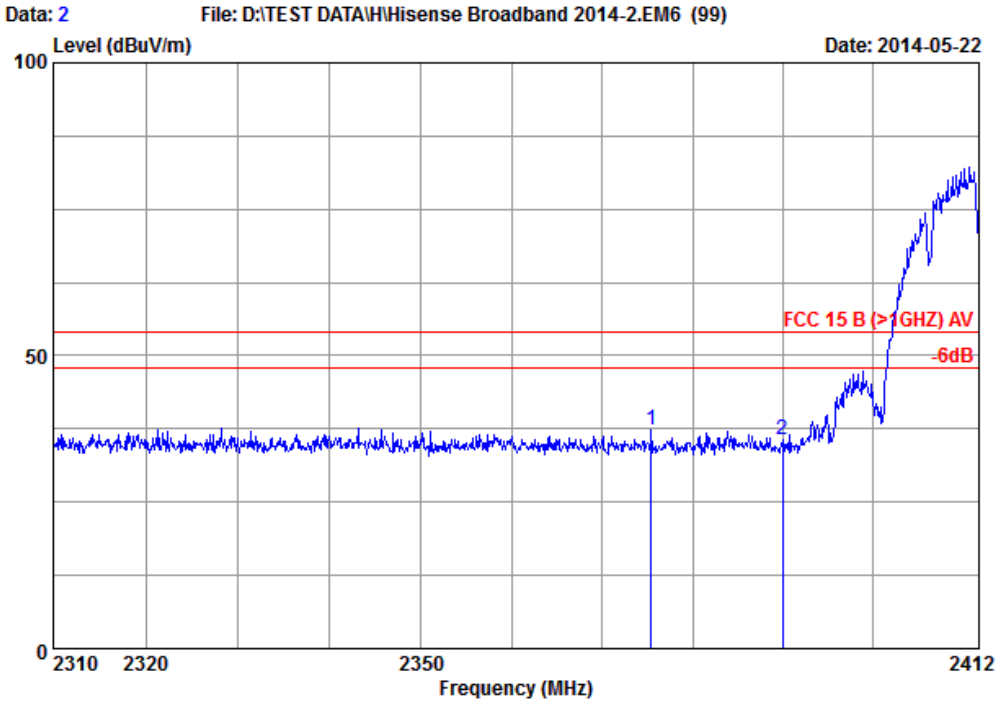

Site no : Audix ACI (3m Chamber) Data no. : 2
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.387	28.79	35.94	4.71	39.85	37.41	54.00	16.59	Average
2	2390.000	28.72	35.94	4.74	38.05	35.57	54.00	18.43	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11b ANT2 Ch11:

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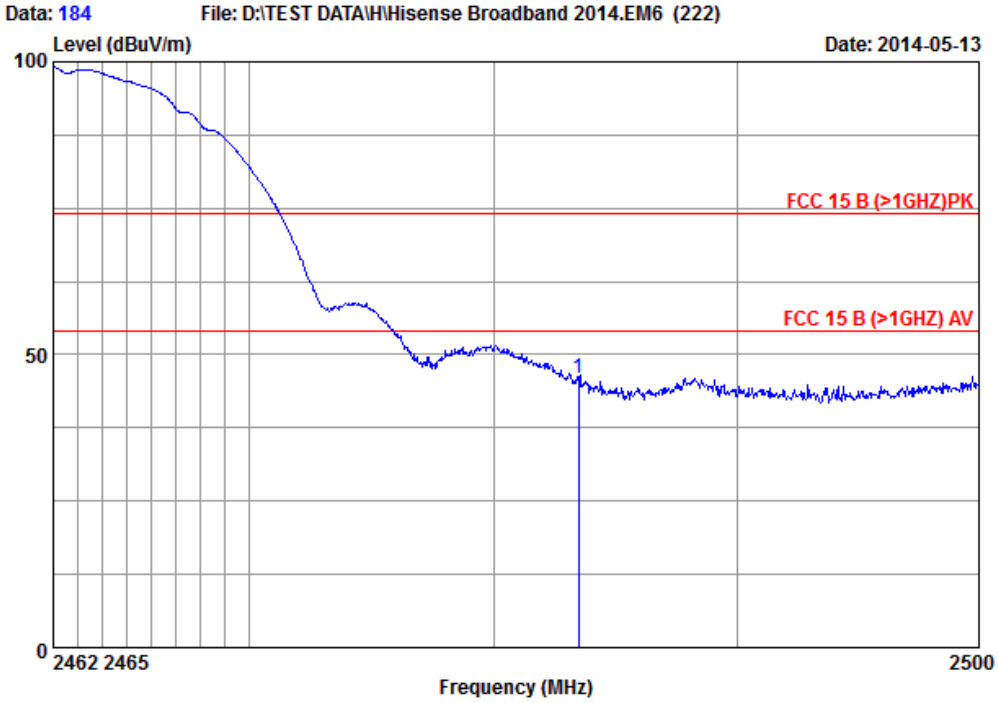

Site no : Audix ACI (3m Chamber) Data no. : 184
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	48.73	45.83	74.00	28.17	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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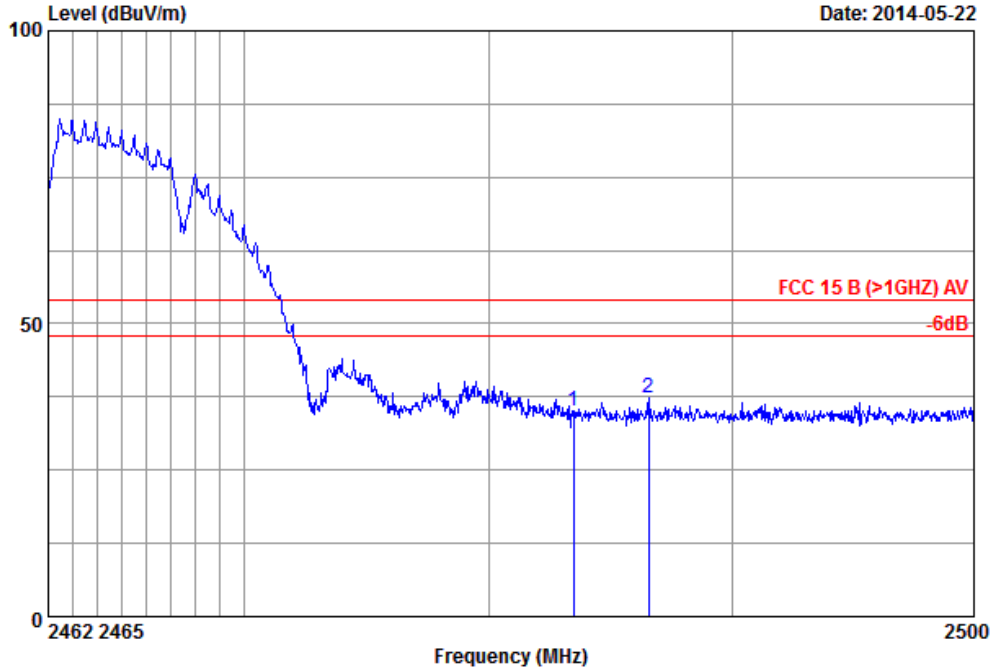
Data: 55 File: D:\TEST DATA\H\Hisense Broadband 2014-2.EM6 (99)



Site no : Audix ACI (3m Chamber) Data no. : 55
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.97	35.07	54.00	18.93	Average
2	2486.596	28.26	35.95	4.81	40.16	37.28	54.00	16.72	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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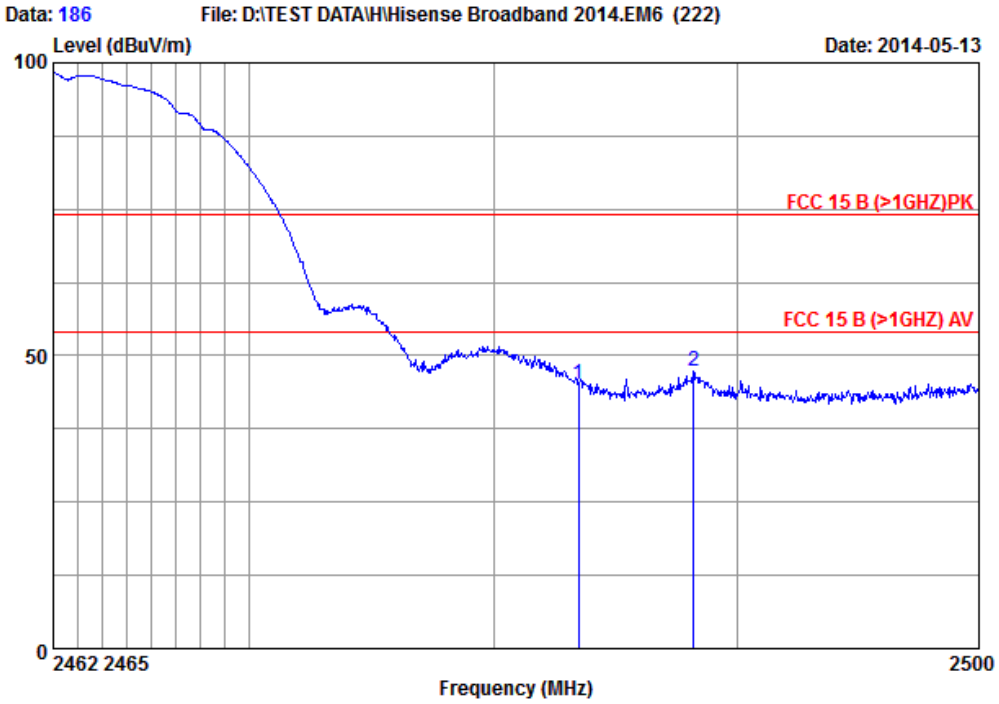

Site no : Audix ACI (3m Chamber) Data no. : 186
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : B CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.91	45.01	74.00	28.99	Peak
2	2488.234	28.26	35.95	4.81	50.18	47.30	74.00	26.70	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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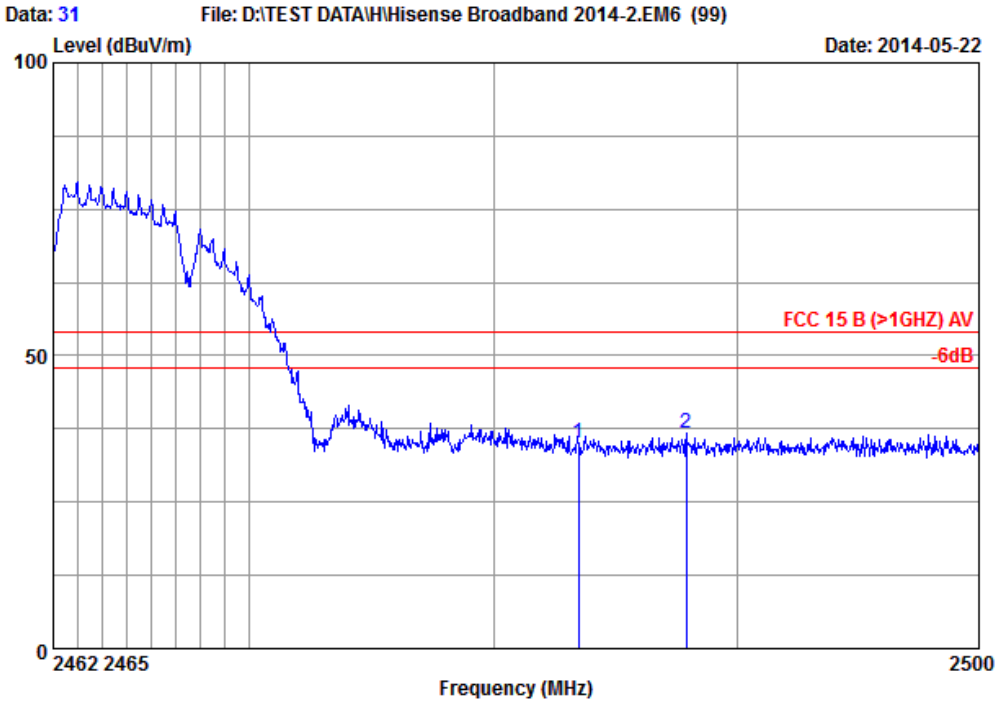

Site no : Audix ACI (3m Chamber) Data no. : 31
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : B CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	38.09	35.19	54.00	18.81	Average
2	2487.929	28.26	35.95	4.81	39.58	36.70	54.00	17.30	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11g ANT1 Ch01:

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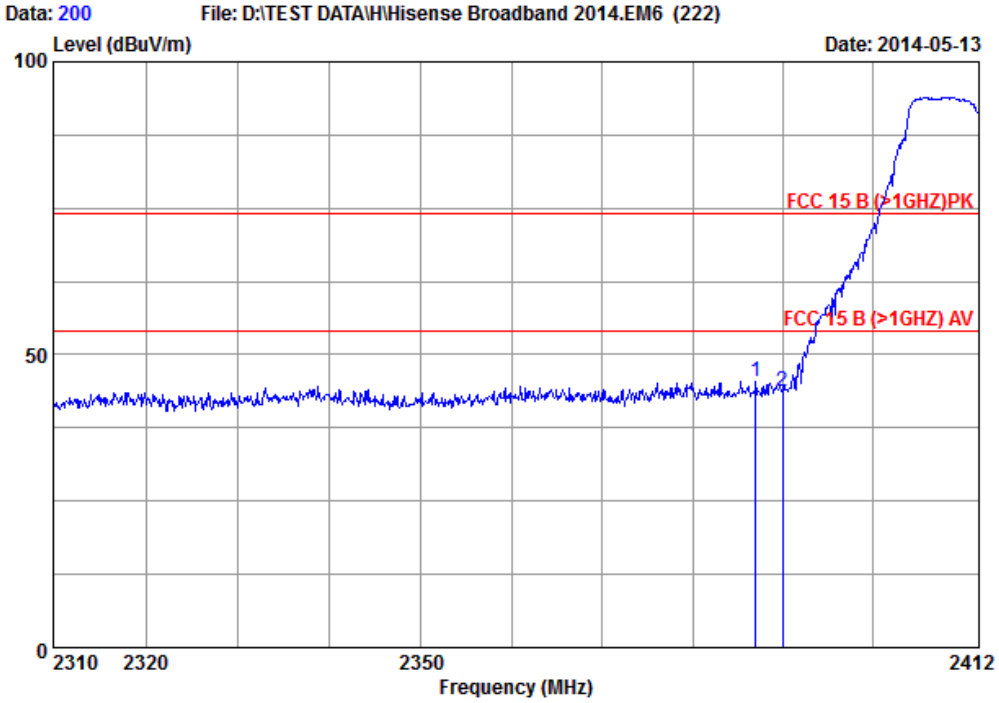

Site no : Audix ACI (3m Chamber) Data no. : 200
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.013	28.72	35.94	4.74	48.02	45.54	74.00	28.46	Peak
2	2390.000	28.72	35.94	4.74	46.23	43.75	74.00	30.25	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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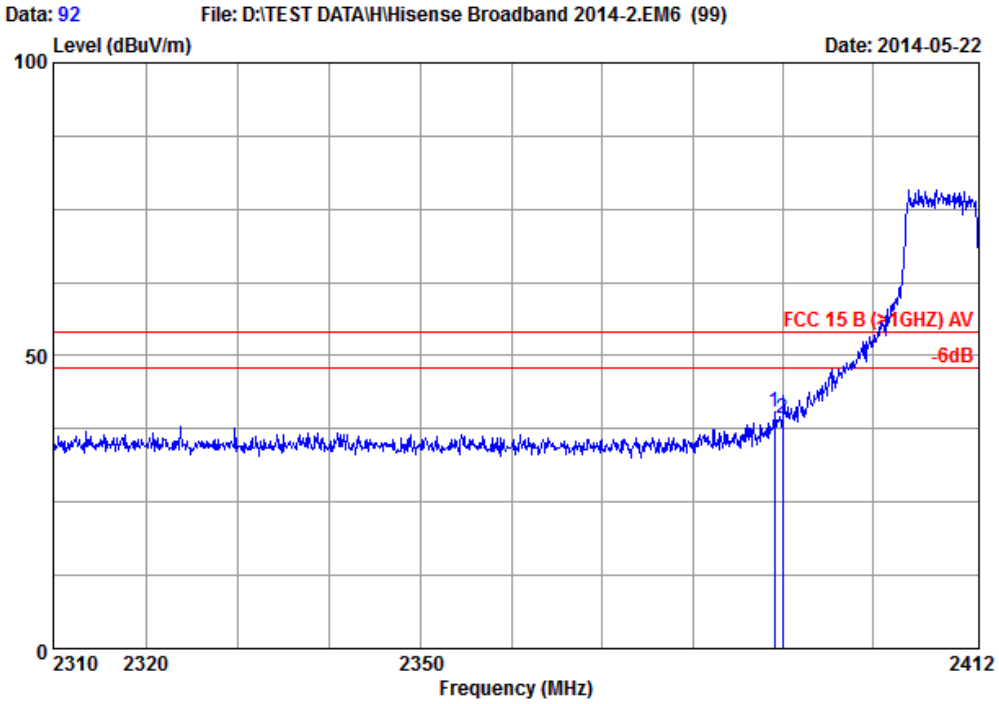

Site no : Audix ACI (3m Chamber) Data no. : 92
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.077	28.72	35.94	4.74	42.99	40.51	54.00	13.49	Average
2	2390.000	28.72	35.94	4.74	41.75	39.27	54.00	14.73	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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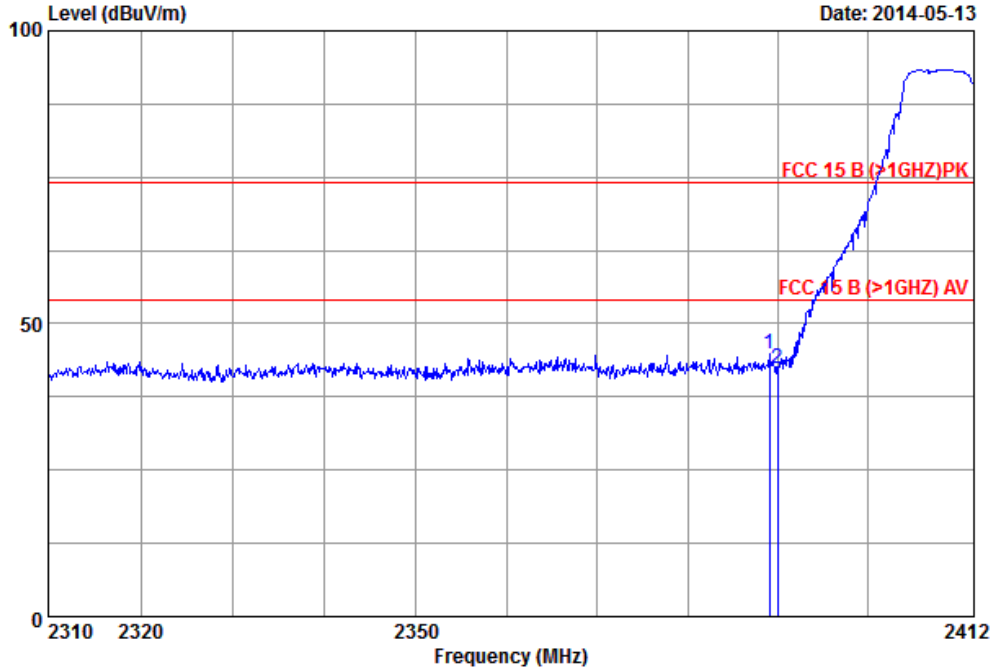
Data: 206 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



Site no : Audix ACI (3m Chamber) Data no. : 206
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.077	28.72	35.94	4.74	47.19	44.71	74.00	29.29	Peak
2	2390.000	28.72	35.94	4.74	44.70	42.22	74.00	31.78	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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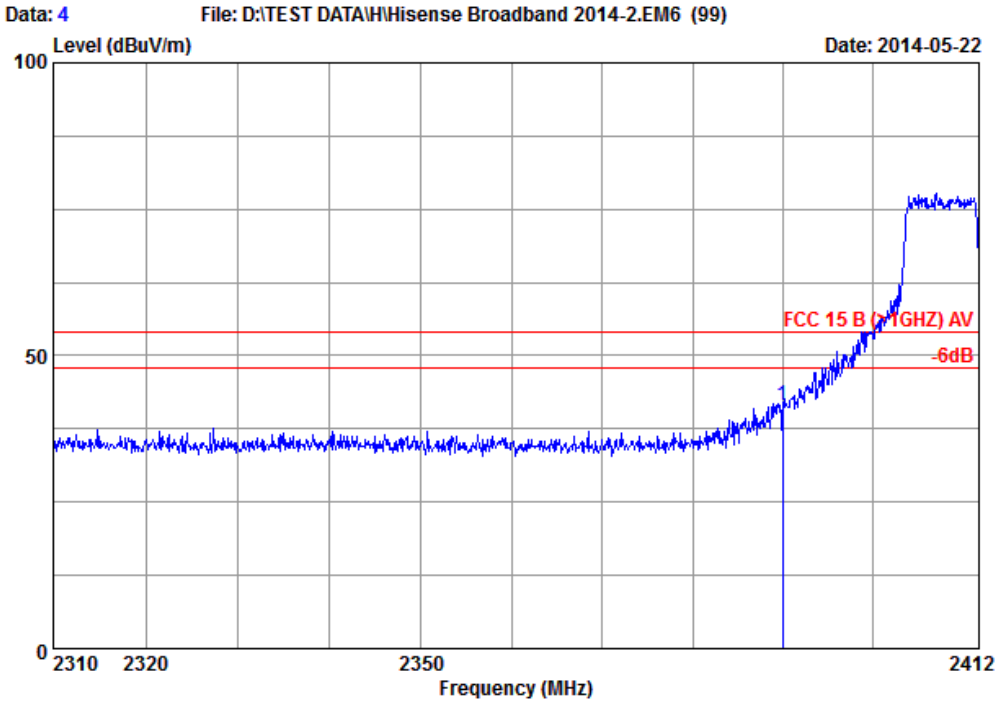

Site no : Audix ACI (3m Chamber) Data no. : 4
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH1 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.72	35.94	4.74	44.01	41.53	54.00	12.47	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11g ANT1 Ch11:

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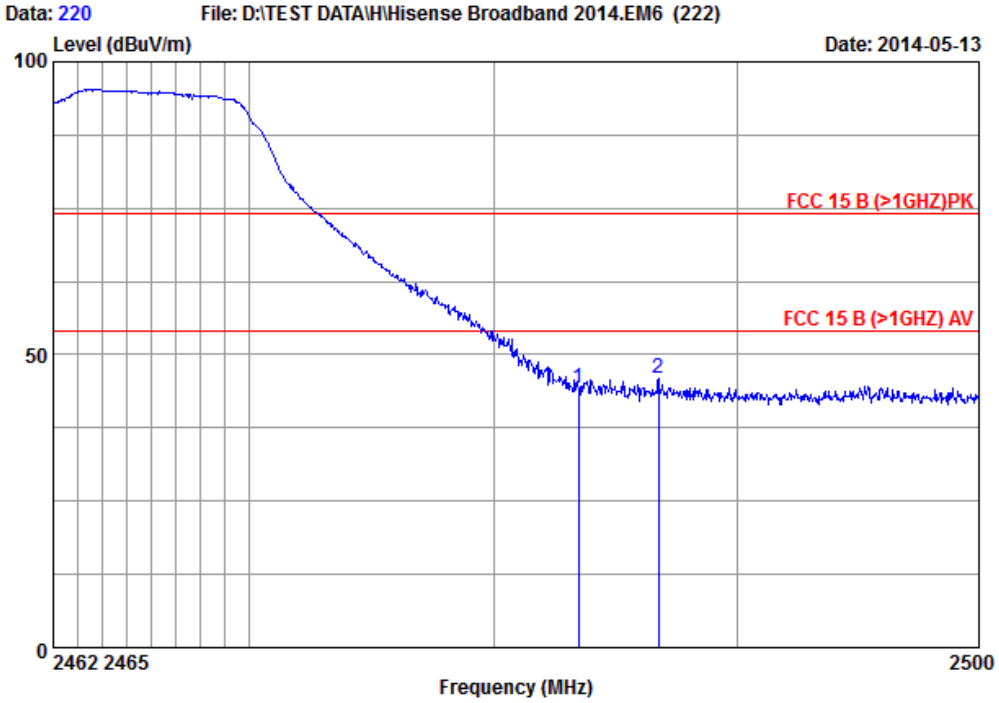

Site no : Audix ACI (3m Chamber) Data no. : 220
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.10	44.20	74.00	29.80	Peak
2	2486.786	28.26	35.95	4.81	48.84	45.96	74.00	28.04	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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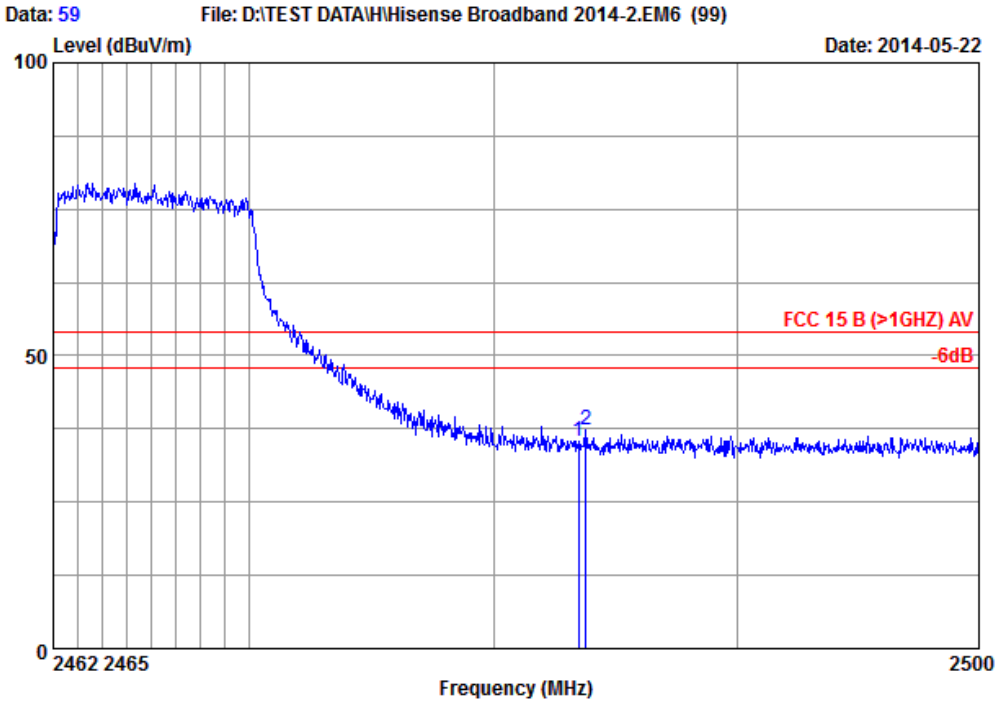
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 59
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	38.29	35.39	54.00	18.61	Average
2	2483.779	28.26	35.95	4.79	40.20	37.30	54.00	16.70	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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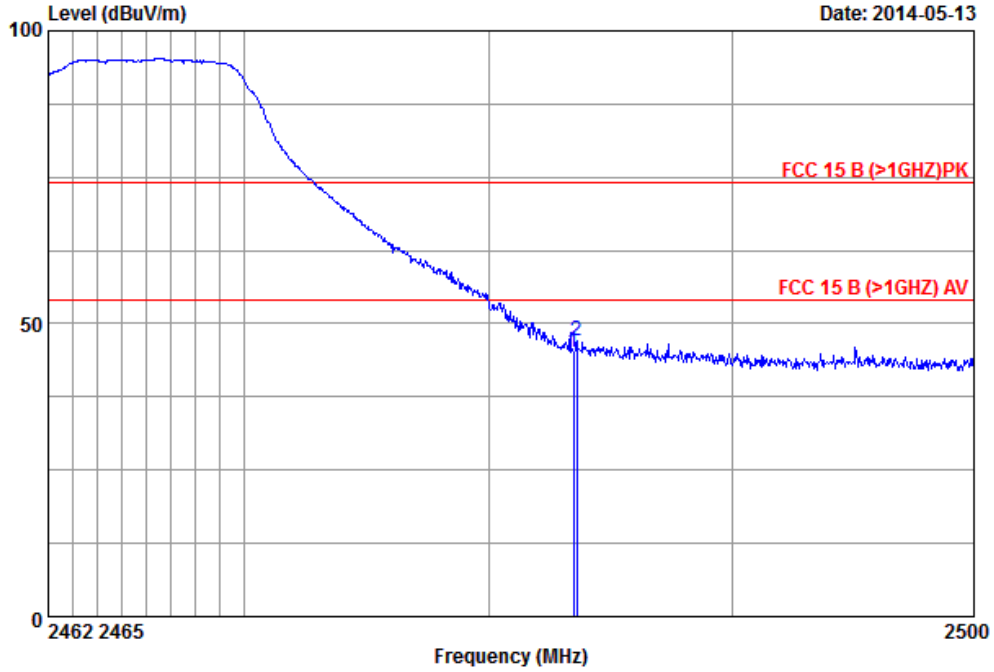
Data: 212 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



Site no : Audix ACI (3m Chamber) Data no. : 212
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	48.13	45.23	74.00	28.77	Peak
2	2483.627	28.26	35.95	4.79	49.85	46.95	74.00	27.05	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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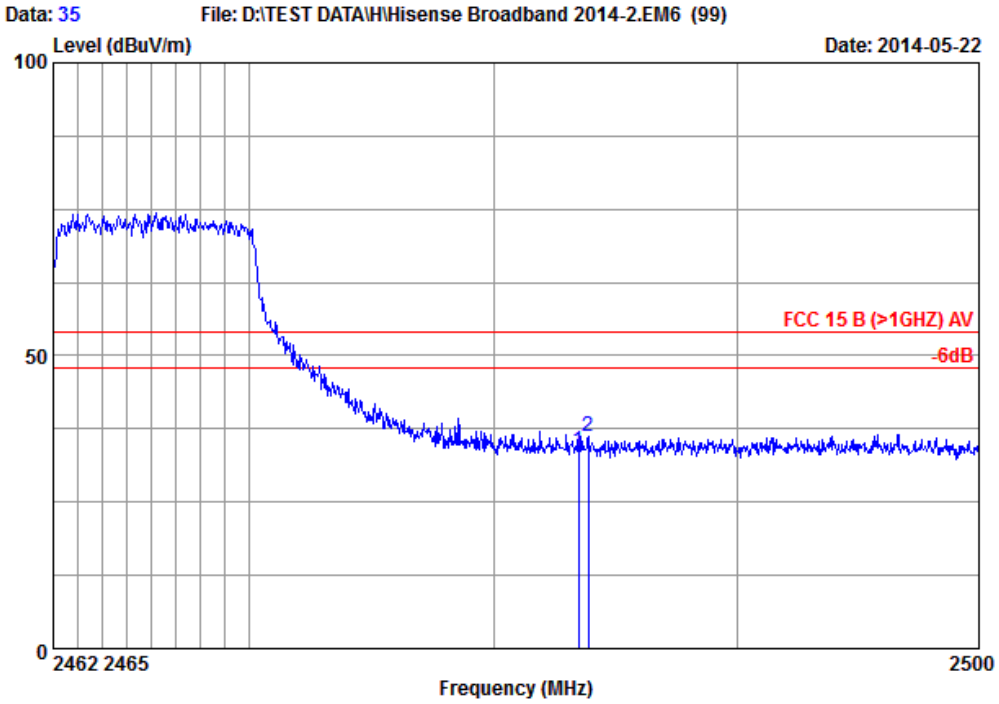
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 35
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH11 ANT1

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	36.68	33.78	54.00	20.22	Average
2	2483.893	28.26	35.95	4.79	39.23	36.33	54.00	17.67	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11g ANT2 Ch01:

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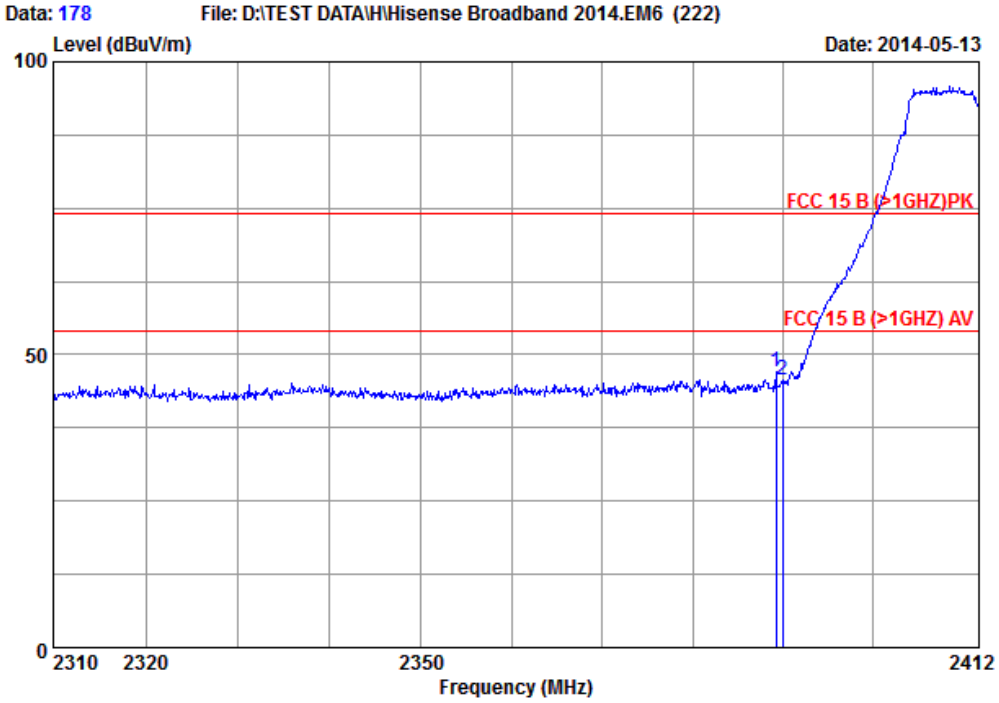

Site no : Audix ACI (3m Chamber) Data no. : 178
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.284	28.72	35.94	4.74	49.56	47.08	74.00	26.92	Peak
2	2390.000	28.72	35.94	4.74	48.17	45.69	74.00	28.31	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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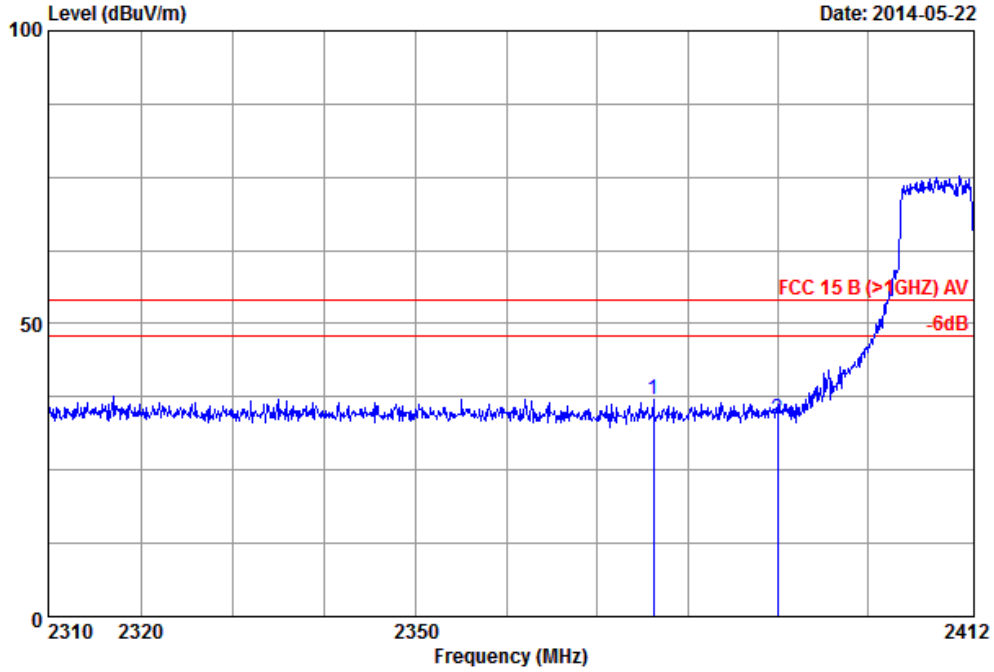
Data: 95 File: D:\TEST DATA\H\Hisense Broadband 2014-2.EM6 (99)



Site no : Audix ACI (3m Chamber) Data no. : 95
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.208	28.79	35.94	4.71	39.61	37.17	54.00	16.83	Average
2	2390.000	28.72	35.94	4.74	36.27	33.79	54.00	20.21	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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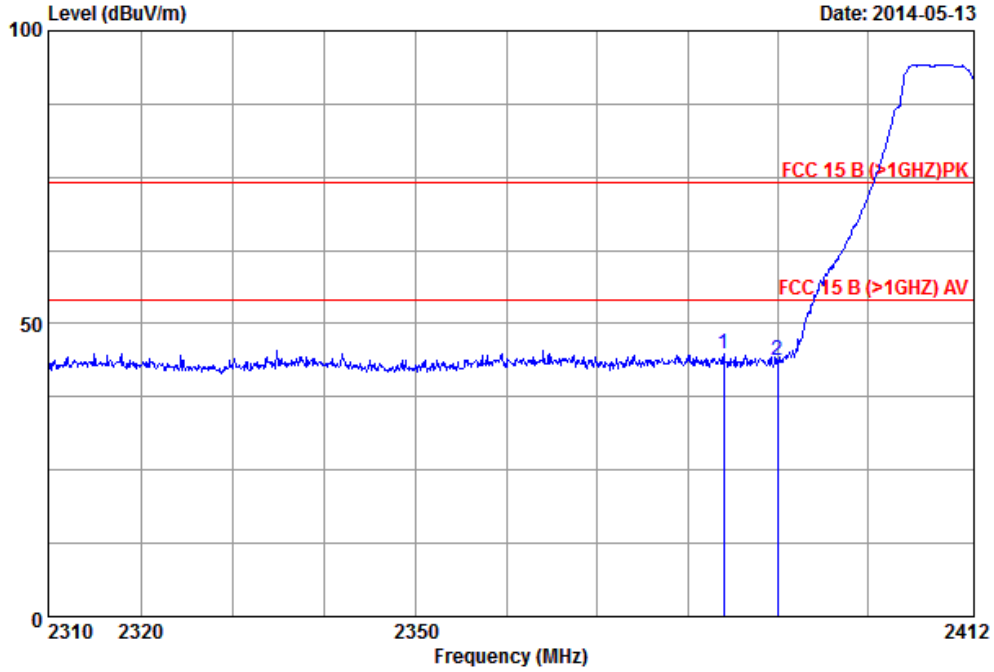
Data: 180 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



Site no : Audix ACI (3m Chamber) Data no. : 180
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.024	28.72	35.94	4.74	47.29	44.81	74.00	29.19	Peak
2	2390.000	28.72	35.94	4.74	46.17	43.69	74.00	30.31	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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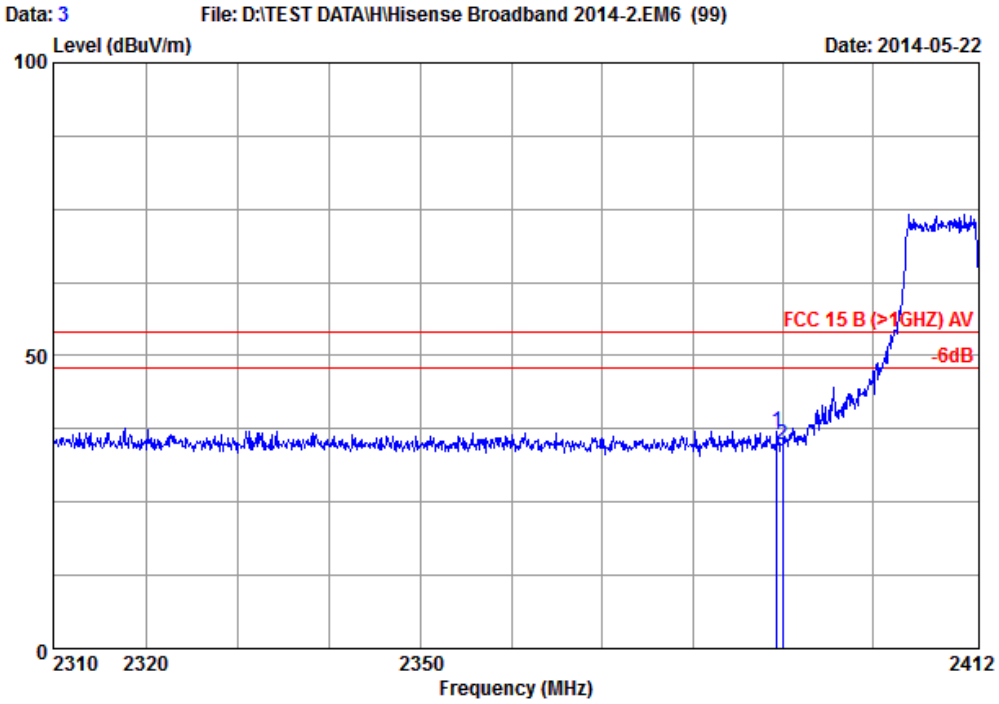

Site no : Audix ACI (3m Chamber) Data no. : 3
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH1 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.387	28.72	35.94	4.74	39.43	36.95	54.00	17.05	Average
2	2390.000	28.72	35.94	4.74	37.38	34.90	54.00	19.10	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11g ANT2 Ch11:

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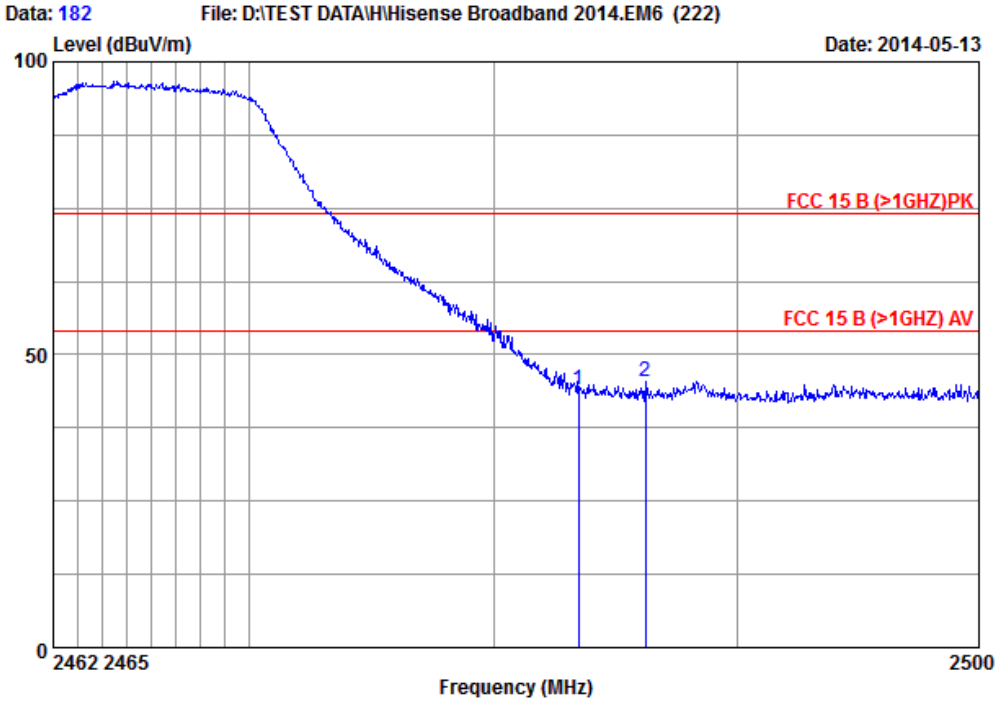

Site no : Audix ACI (3m Chamber) Data no. : 182
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : G CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.03	44.13	74.00	29.87	Peak
2	2486.253	28.26	35.95	4.81	48.27	45.39	74.00	28.61	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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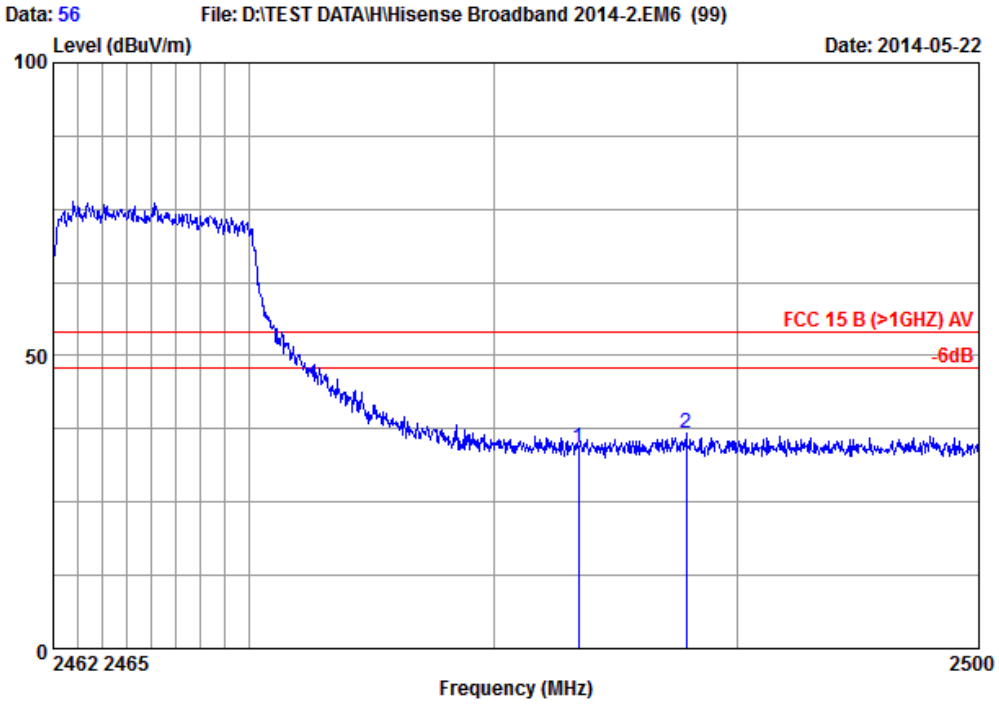

Site no : Audix ACI (3m Chamber) Data no. : 56
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.21	34.31	54.00	19.69	Average
2	2487.929	28.26	35.95	4.81	39.70	36.82	54.00	17.18	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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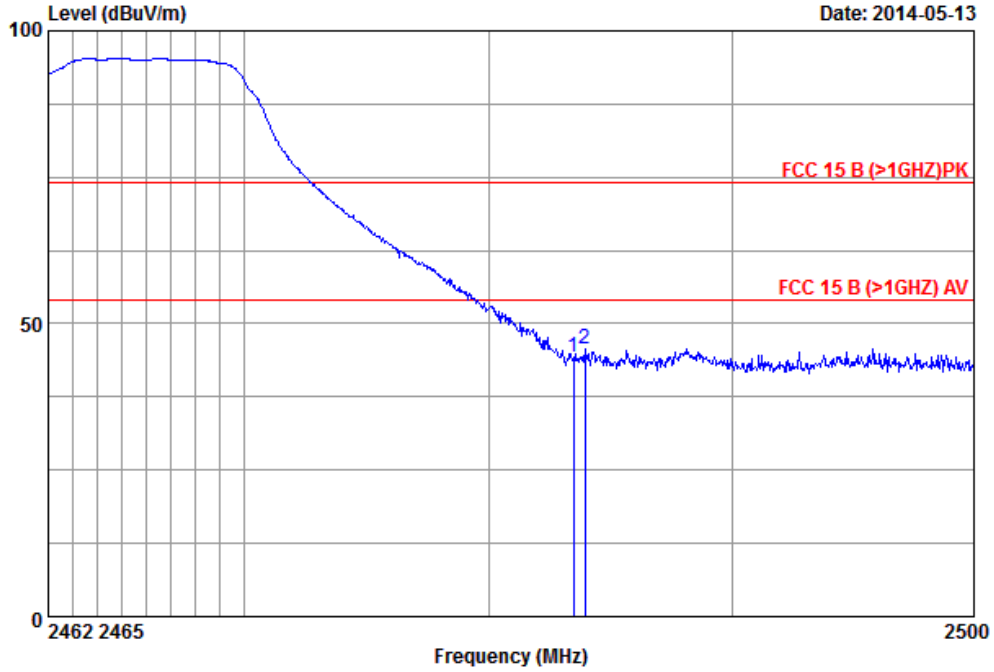
Data: 188 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



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 : Neal
Test Mode : G CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.11	44.21	74.00	29.79	Peak
2	2483.969	28.26	35.95	4.79	48.51	45.61	74.00	28.39	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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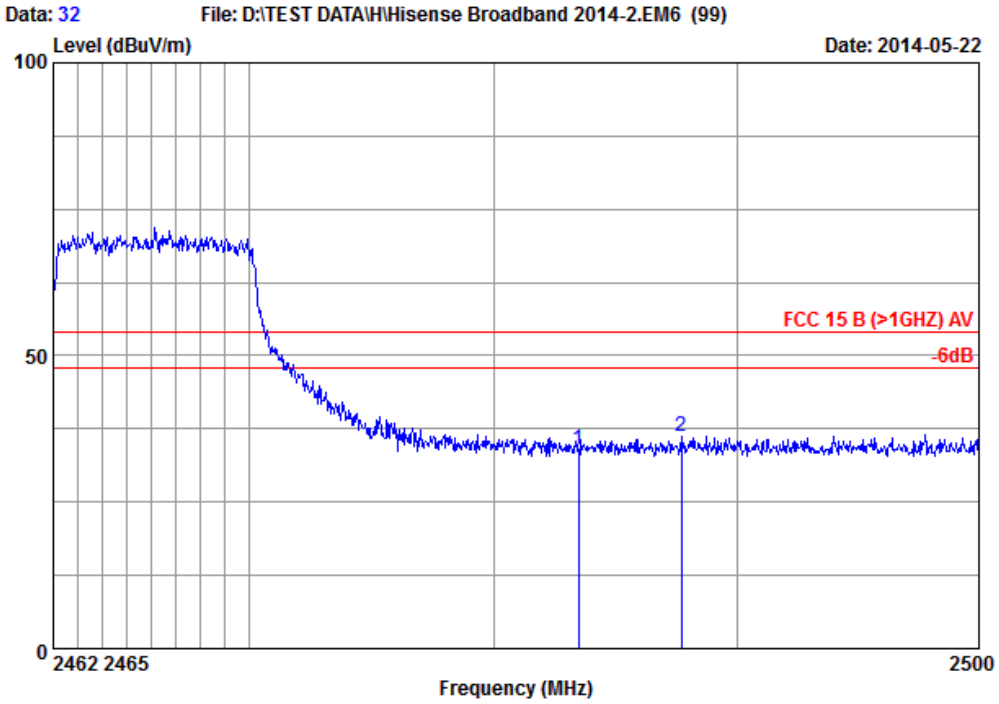

Site no : Audix ACI (3m Chamber) Data no. : 32
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : G CH11 ANT2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	36.99	34.09	54.00	19.91	Average
2	2487.739	28.26	35.95	4.81	39.20	36.32	54.00	17.68	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11n HT20 ANT1+ANT2 Ch01:

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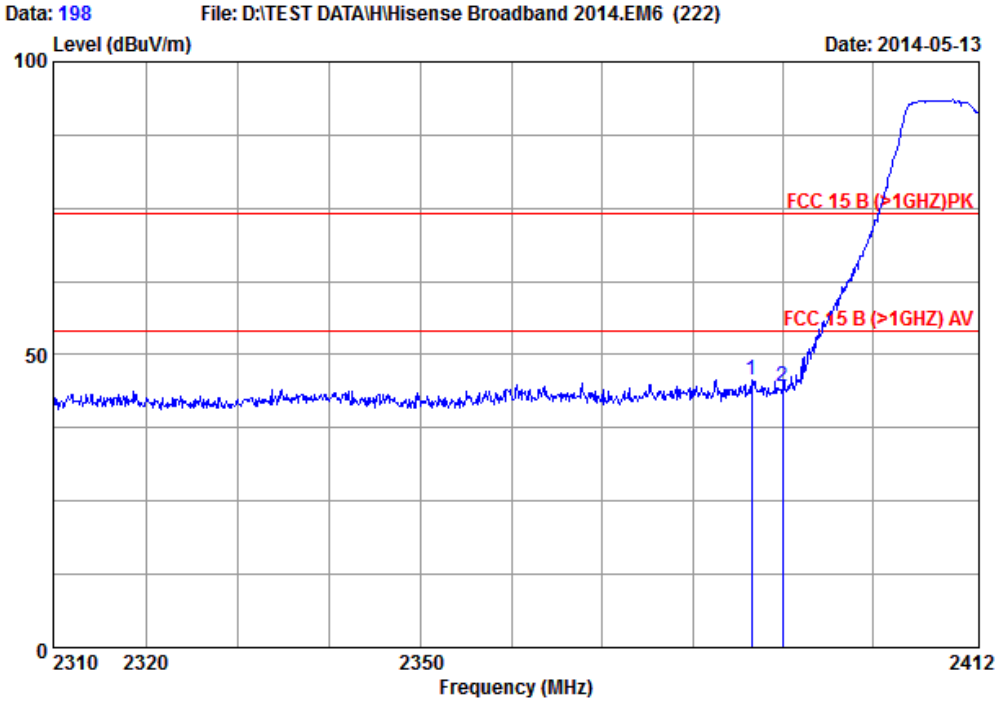
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 198
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N20 CH1 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.498	28.72	35.94	4.74	48.28	45.80	74.00	28.20	Peak
2	2390.000	28.72	35.94	4.74	47.12	44.64	74.00	29.36	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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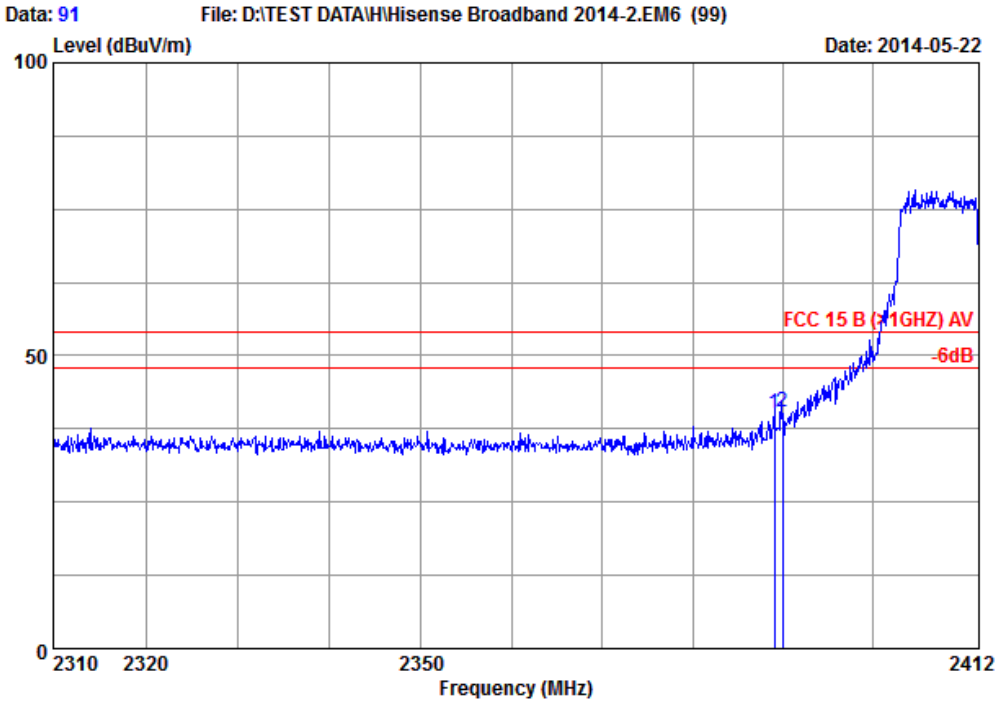

Site no : Audix ACI (3m Chamber) Data no. : 91
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N20 CH1 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.077	28.72	35.94	4.74	42.48	40.00	54.00	14.00	Average
2	2390.000	28.72	35.94	4.74	42.87	40.39	54.00	13.61	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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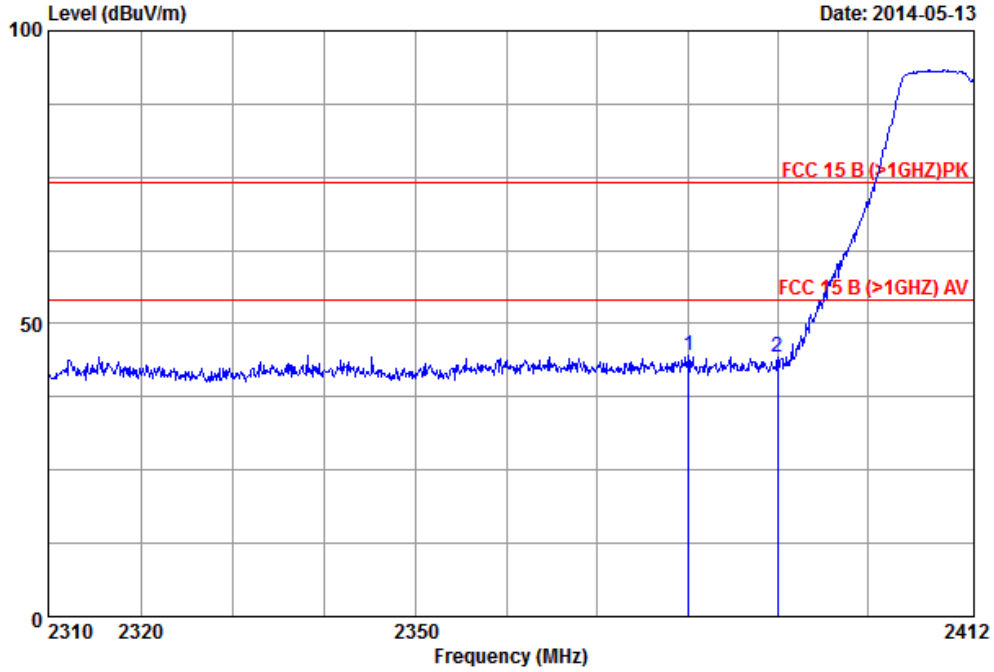
Data: 208 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



Site no : Audix ACI (3m Chamber) Data no. : 208
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N20 CH1 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2380.113	28.75	35.94	4.74	46.94	44.49	74.00	29.51	Peak
2	2390.000	28.72	35.94	4.74	46.79	44.31	74.00	29.69	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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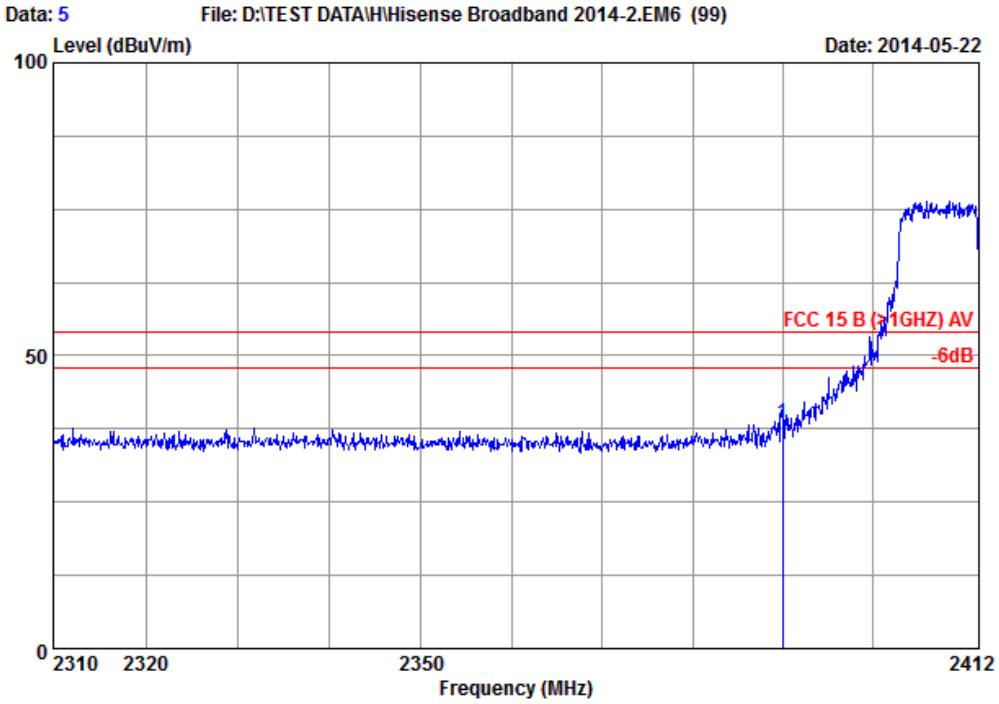
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 5
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N20 CH1 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.72	35.94	4.74	40.92	38.44	54.00	15.56	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11n HT20 ANT1+ANT2 Ch11:

Audix Technology (Shanghai) Co., Ltd.
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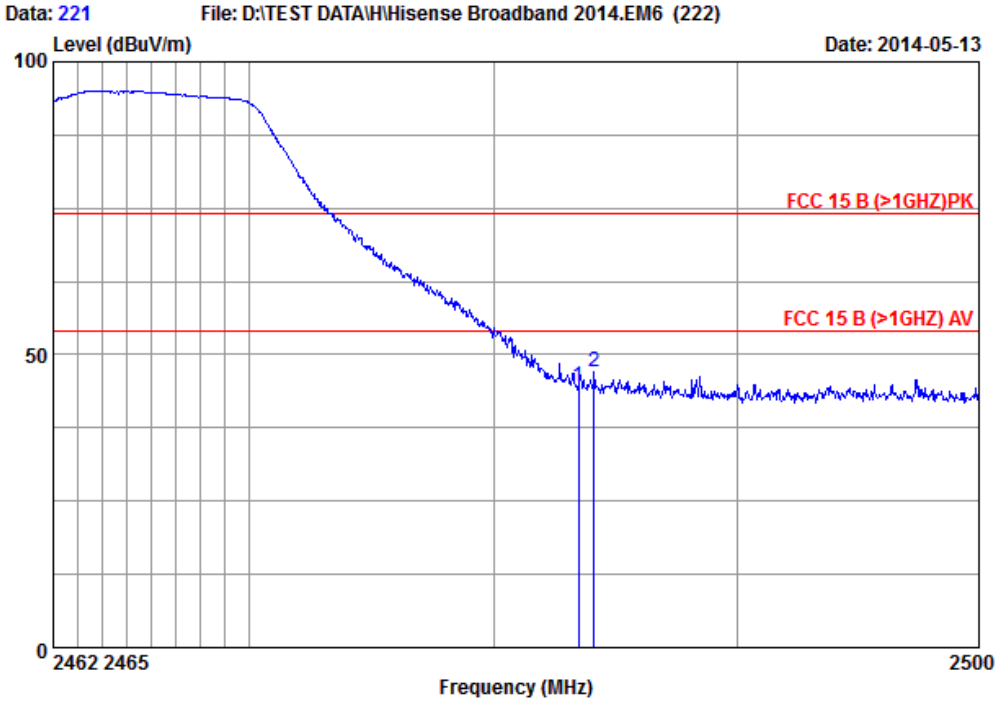
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 221
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N20 CH11 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	47.53	44.63	74.00	29.37	Peak
2	2484.121	28.26	35.95	4.79	49.87	46.97	74.00	27.03	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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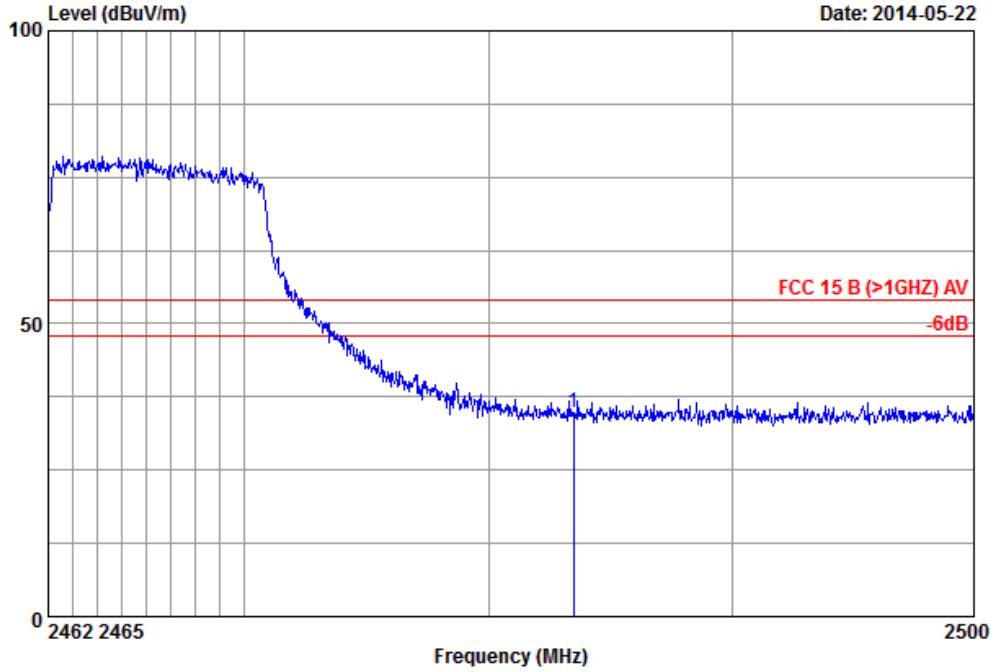
audixaci@audix.com

Data: 60 File: D:\TEST DATA\H\Hisense Broadband 2014-2.EM6 (99)



Site no : Audix ACI (3m Chamber) Data no. : 60
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N20 CH11 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.74	34.84	54.00	19.16	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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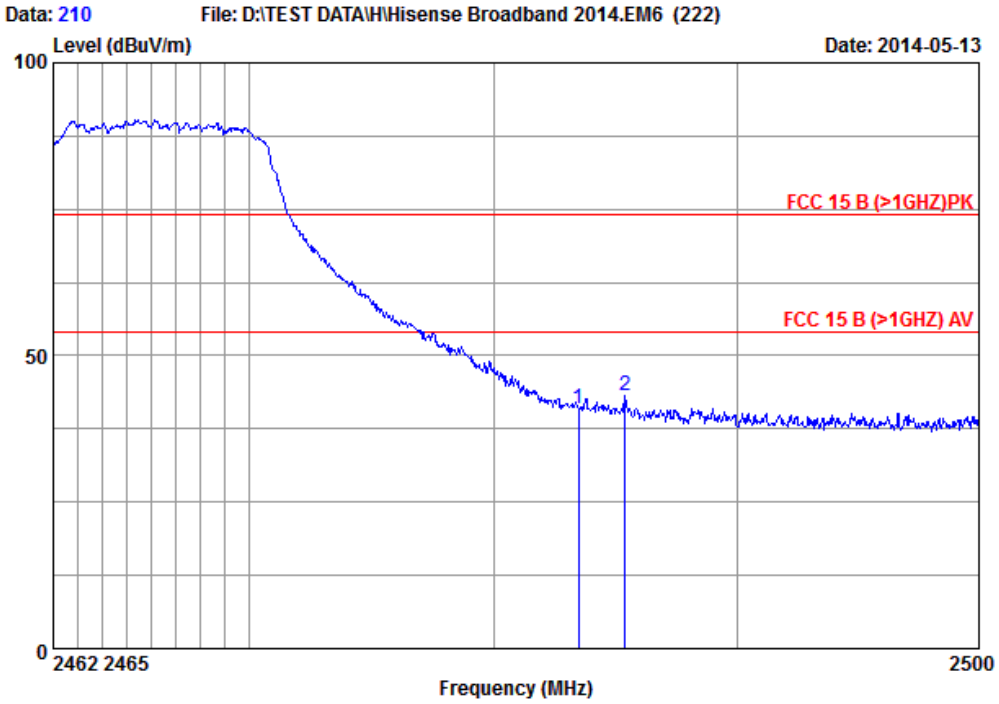
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 210
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N20 CH11 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	43.77	40.87	74.00	33.13	Peak
2	2485.415	28.26	35.95	4.81	46.15	43.27	74.00	30.73	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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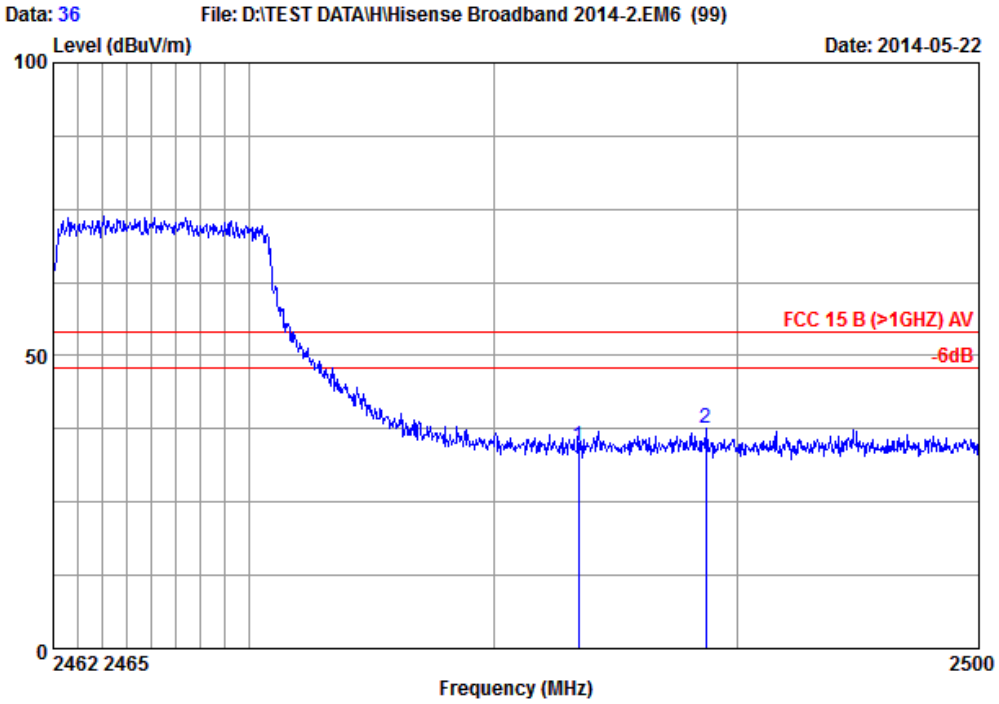
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 36
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N20 CH11 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.41	34.51	54.00	19.49	Average
2	2488.729	28.26	35.95	4.81	40.42	37.54	54.00	16.46	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11n HT40 ANT1+ANT2 Ch03:

Audix Technology (Shanghai) Co., Ltd.
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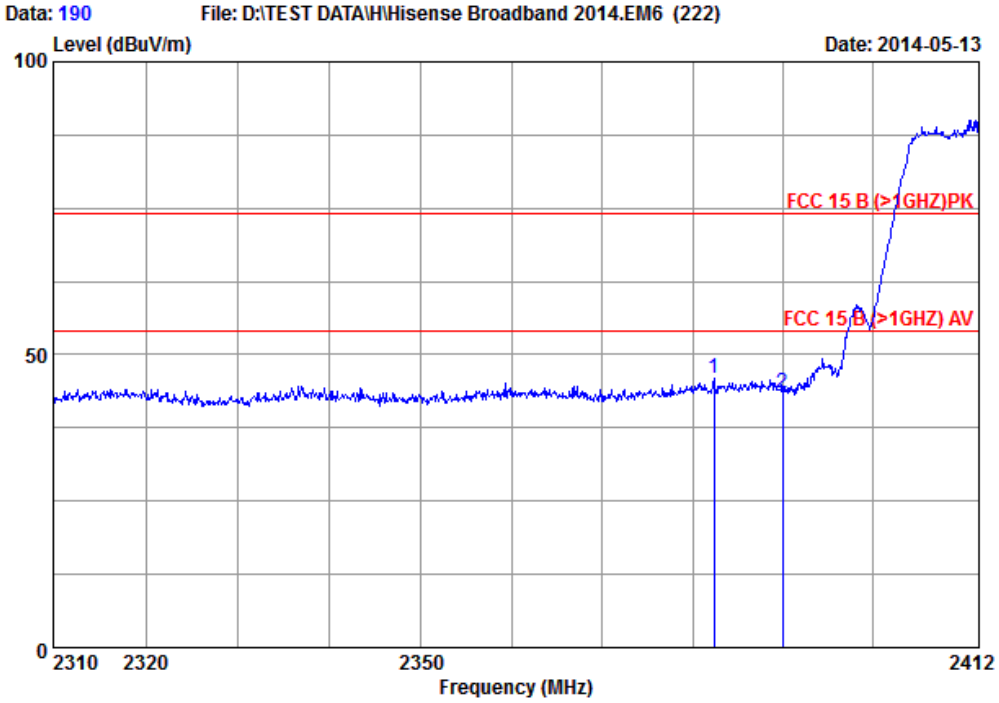
Shanghai 200233, China
Tel:+86-21-64955500 Fax:+86-21-64955491
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 190
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N40 CH3 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2382.377	28.75	35.94	4.74	48.47	46.02	74.00	27.98	Peak
2	2390.000	28.72	35.94	4.74	46.07	43.59	74.00	30.41	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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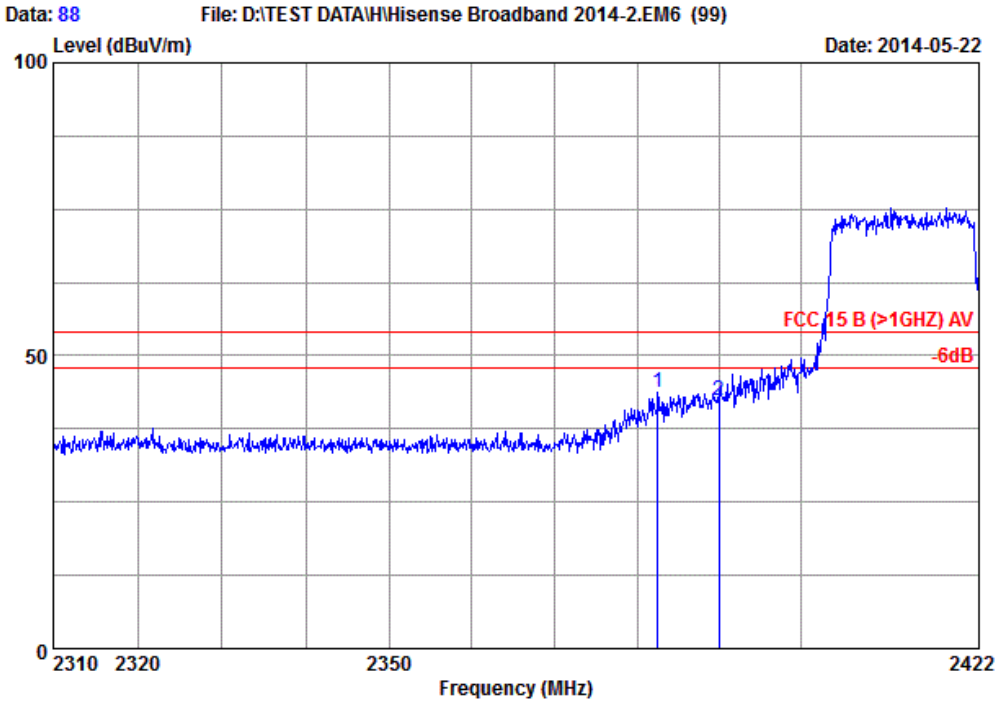
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 88
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N40 CH3 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2382.534	28.75	35.94	4.74	46.10	43.65	54.00	10.35	Average
2	2390.000	28.72	35.94	4.74	44.73	42.25	54.00	11.75	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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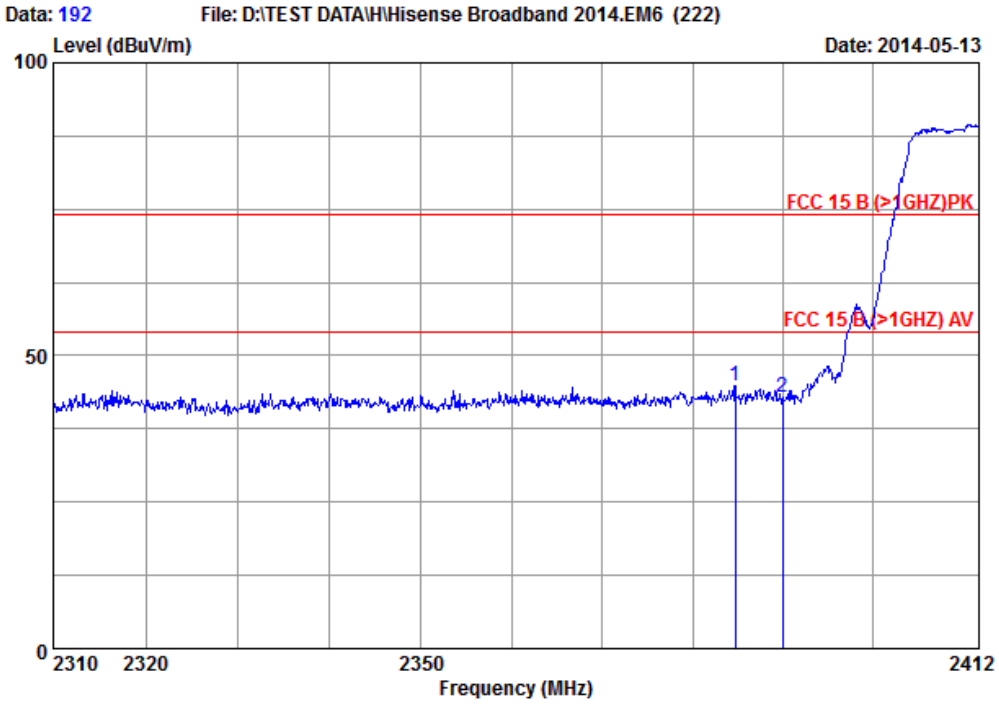

Site no : Audix ACI (3m Chamber) Data no. : 192
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ) PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N40 CH3 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.745	28.72	35.94	4.74	47.31	44.83	74.00	29.17	Peak
2	2390.000	28.72	35.94	4.74	45.40	42.92	74.00	31.08	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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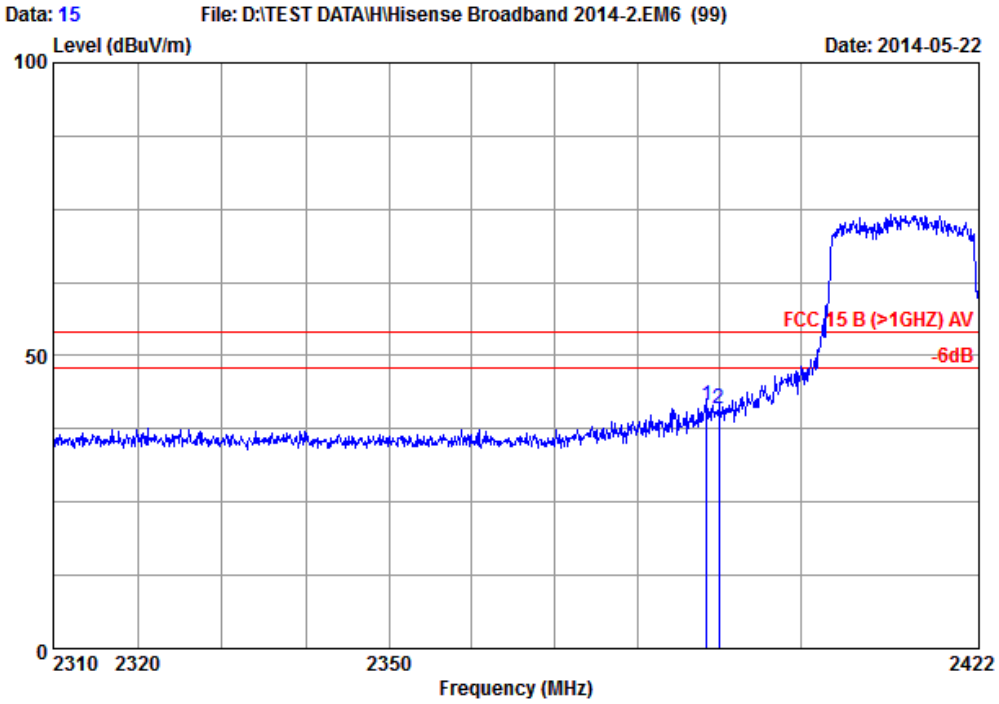
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 15
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N40 CH3 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.520	28.72	35.94	4.74	44.07	41.59	54.00	12.41	Average
2	2390.000	28.72	35.94	4.74	43.35	40.87	54.00	13.13	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

For 802.11n HT40 ANT1+ANT2 Ch09:

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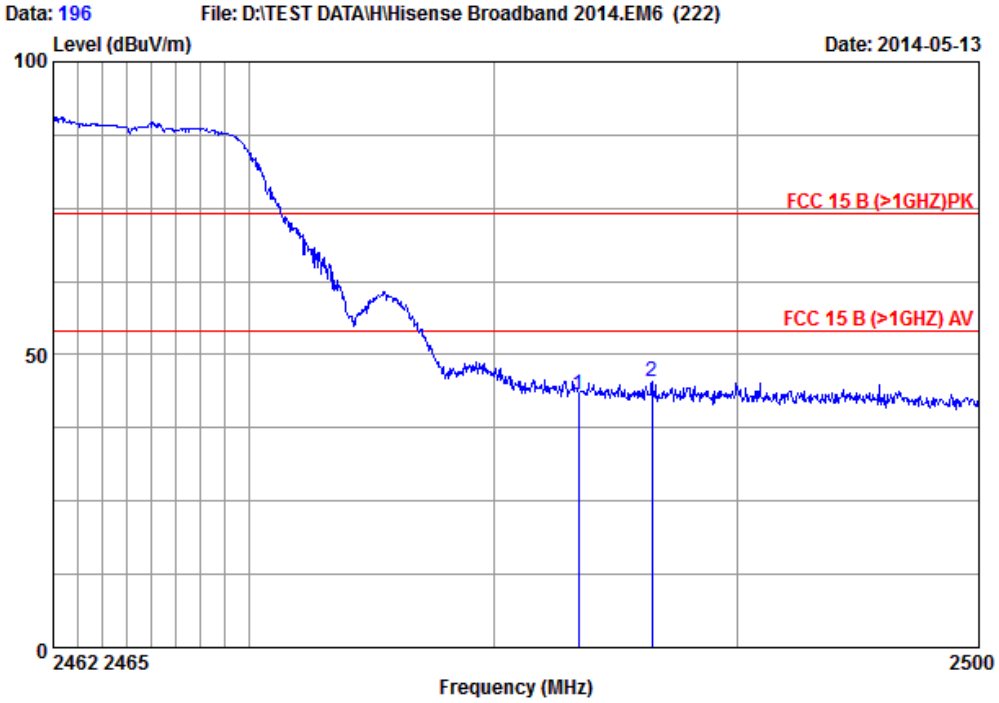
audixaci@audix.com



Site no : Audix ACI (3m Chamber) Data no. : 196
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N40 CH9 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	46.00	43.10	74.00	30.90	Peak
2	2486.520	28.26	35.95	4.81	48.25	45.37	74.00	28.63	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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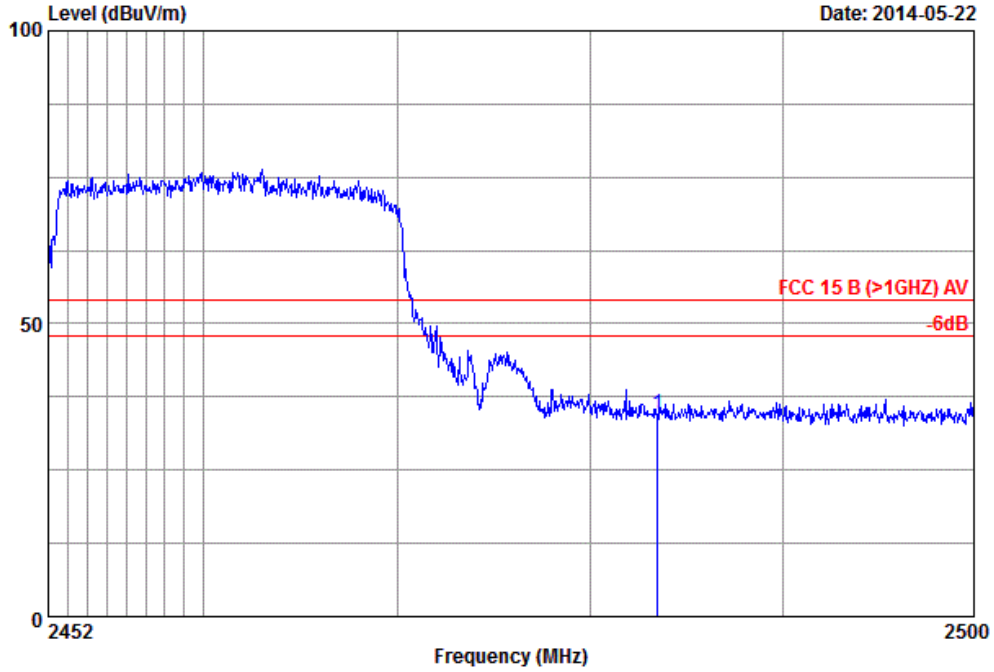
audixaci@audix.com

Data: 63 File: D:\TEST DATA\H\Hisense Broadband 2014-2.EM6 (99)



Site no : Audix ACI (3m Chamber) Data no. : 63
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : HORIZONTAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N40 CH9 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	37.56	34.66	54.00	19.34	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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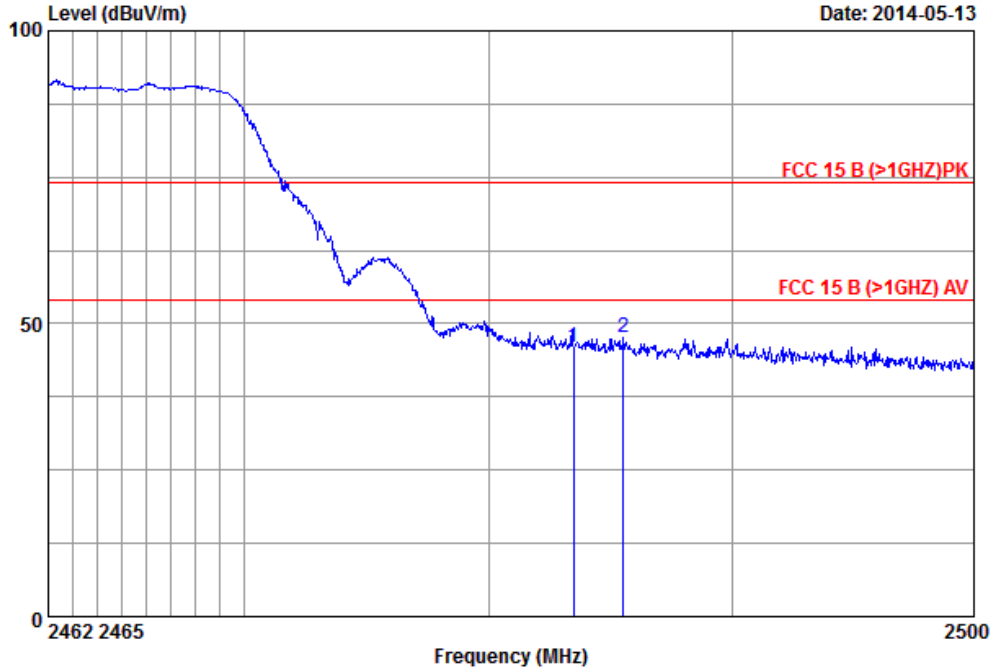
Data: 194 File: D:\TEST DATA\H\Hisense Broadband 2014.EM6 (222)



Site no : Audix ACI (3m Chamber) Data no. : 194
Dis. / Ant. : 3m /EMCO 3115
Limit : FCC 15 B (>1GHZ)PK Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Neal
Test Mode : N40 CH9 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	48.95	46.05	74.00	27.95	Peak
2	2485.530	28.26	35.95	4.81	50.43	47.55	74.00	26.45	Peak

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

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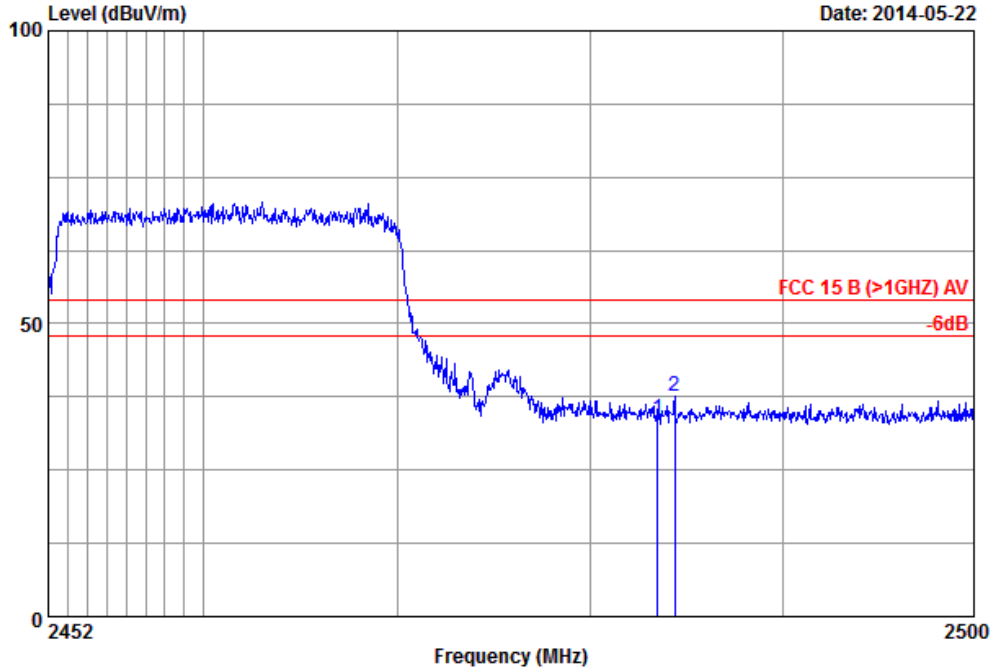
audixaci@audix.com

Data: 39 File: D:\TEST DATA\H\Hisense Broadband 2014-2.EM6 (99)



Site no : Audix ACI (3m Chamber) Data no. : 39
Dis. / Ant. : 3m /EMCO-3115-2013
Limit : FCC 15 B (>1GHZ) AV Ant. pol. : VERTICAL
Env. / Ins. : 22'C 60%RH/ E7405A Engineer : Dio
Test Mode : N40 CH9 ANT1+2

	Freq. (MHz)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.26	35.95	4.79	36.61	33.71	54.00	20.29	Average
2	2484.394	28.26	35.95	4.81	40.61	37.73	54.00	16.27	Average

Remarks: Emission Level= Antenna Factor + Cable Loss - Preamp Factor + Reading.

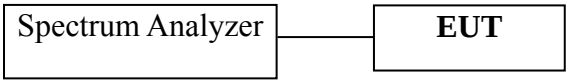
5 6 dB BANDWIDTH MEASUREMENT

5.1 Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 13, 2014

5.2 Block Diagram of Test Setup



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 “MP_TEST” 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 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 D01 v03r01 (the 8.2 Measurement Procedure “Option 2” was used).

5.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: May 12, 2014 Temperature: 26℃ Humidity: 44 %)

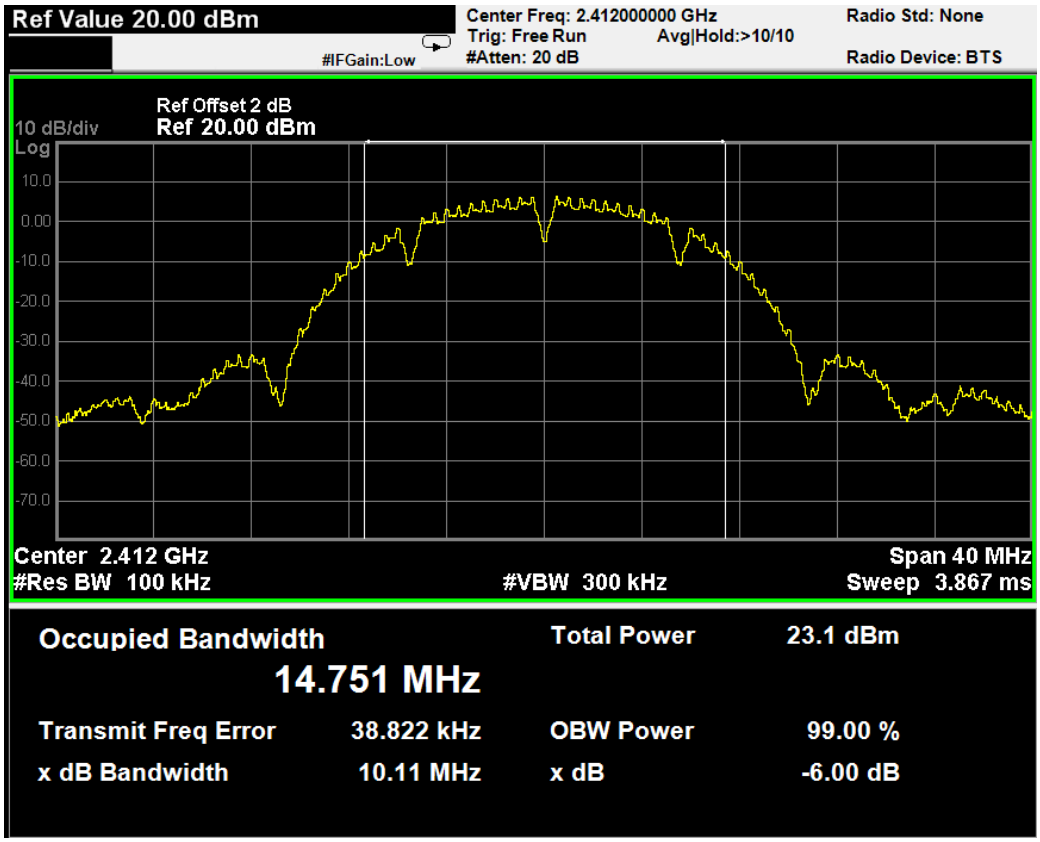
ANT 1

Modulation	Channel	Frequency	**6dB Bandwidth**
802.11b	01	2412 MHz	**10.11 MHz**
	06	2437 MHz	**10.11 MHz**
	11	2462 MHz	**10.11 MHz**
802.11g	01	2412 MHz	**16.56 MHz**
	06	2437 MHz	**16.55 MHz**
	11	2462 MHz	**16.56 MHz**
802.11n HT20	01	2412 MHz	**17.70 MHz**
	06	2437 MHz	**17.72 MHz**
	11	2462 MHz	**17.72 MHz**
802.11n HT40	03	2422 MHz	**36.41 MHz**
	06	2437 MHz	**36.40 MHz**
	09	2452 MHz	**36.41 MHz**

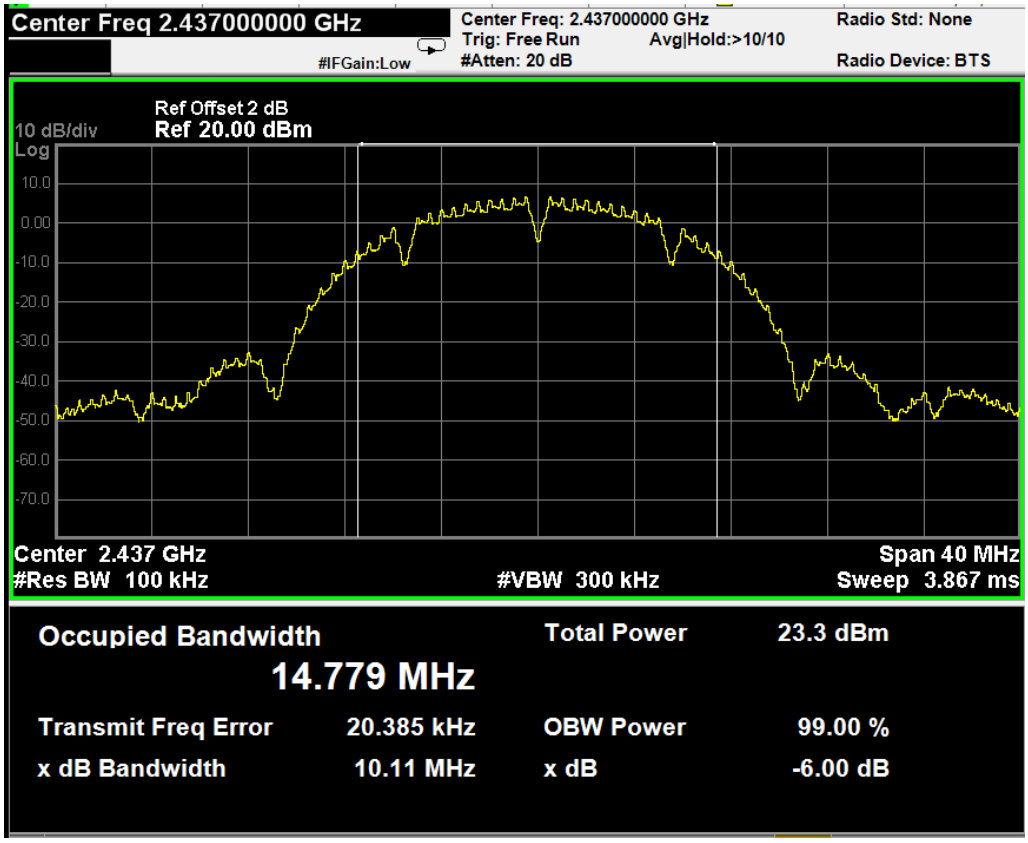
ANT 2

Modulation	Channel	Frequency	**6dB Bandwidth**
802.11b	01	2412 MHz	**10.11 MHz**
	06	2437 MHz	**10.12 MHz**
	11	2462 MHz	**10.12 MHz**
802.11g	01	2412 MHz	**16.57 MHz**
	06	2437 MHz	**16.57 MHz**
	11	2462 MHz	**16.57 MHz**
802.11n HT20	01	2412 MHz	**17.74 MHz**
	06	2437 MHz	**17.73 MHz**
	11	2462 MHz	**17.74 MHz**
802.11n HT40	03	2422 MHz	**36.40 MHz**
	06	2437 MHz	**36.40 MHz**
	09	2452 MHz	**36.40 MHz**

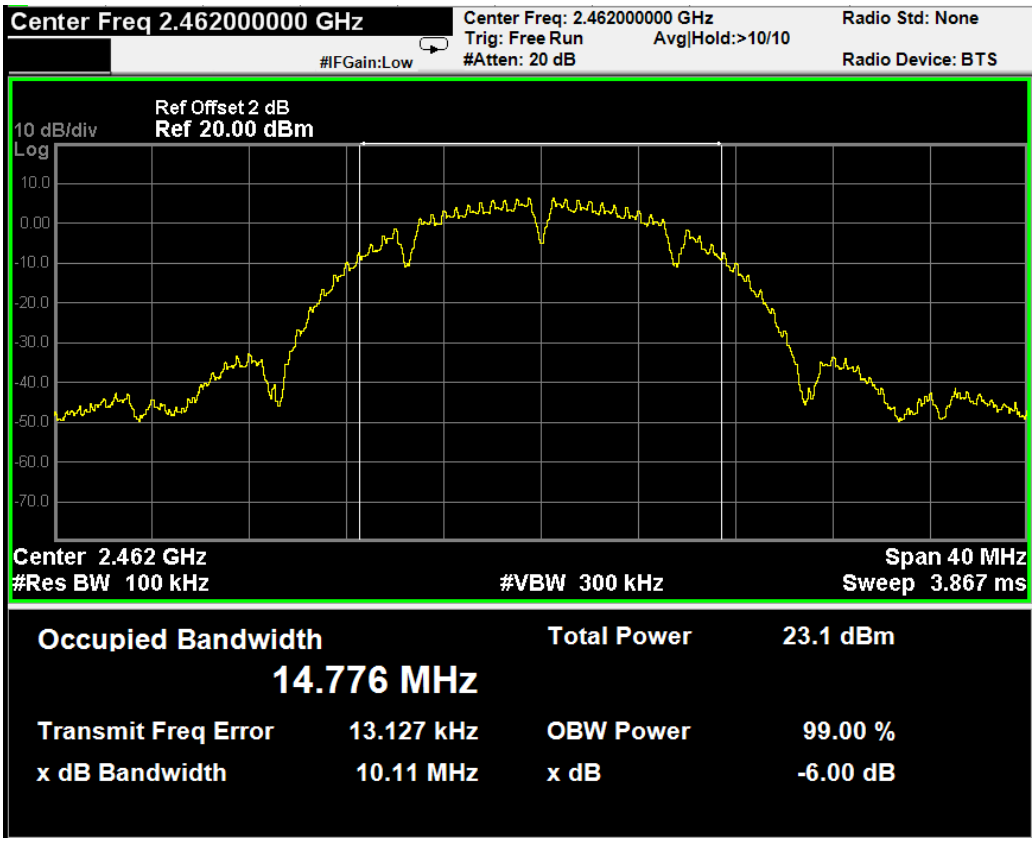
802.11b Ch 01 (2412 MHz) ANT1



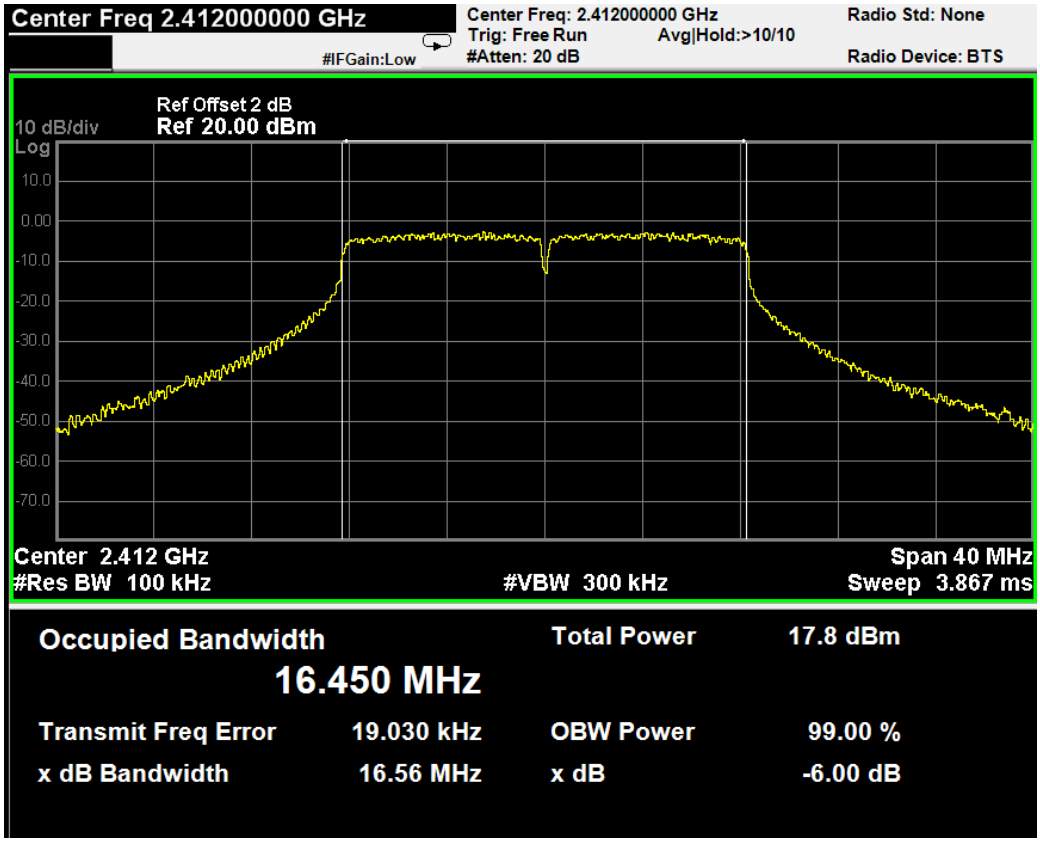
802.11b Ch 06 (2437 MHz) ANT1



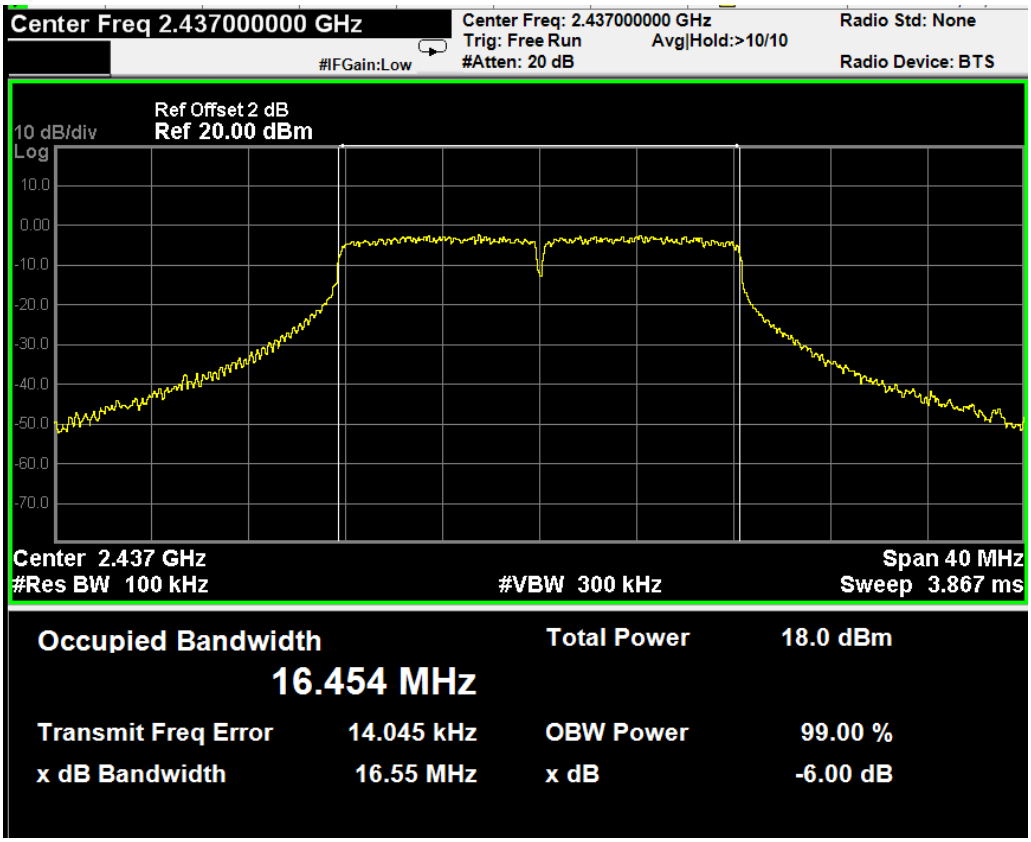
802.11b Ch 11 (2462 MHz) ANT1



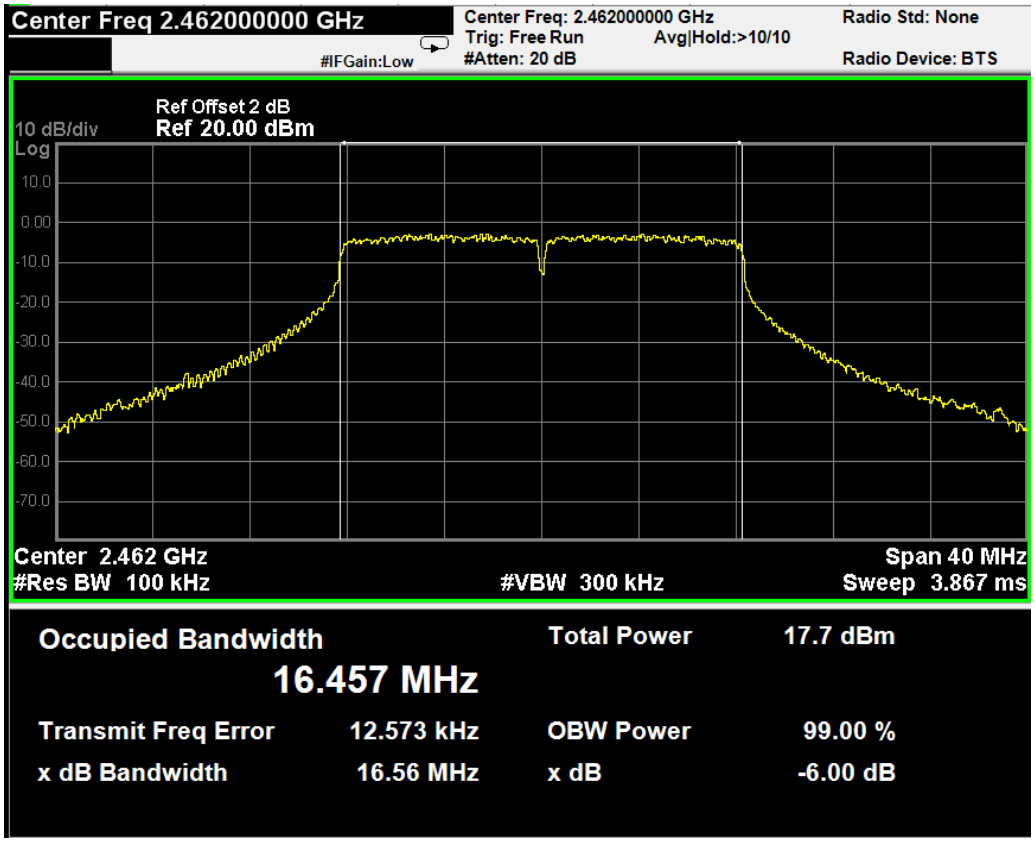
802.11g Ch 01 (2412 MHz) ANT1



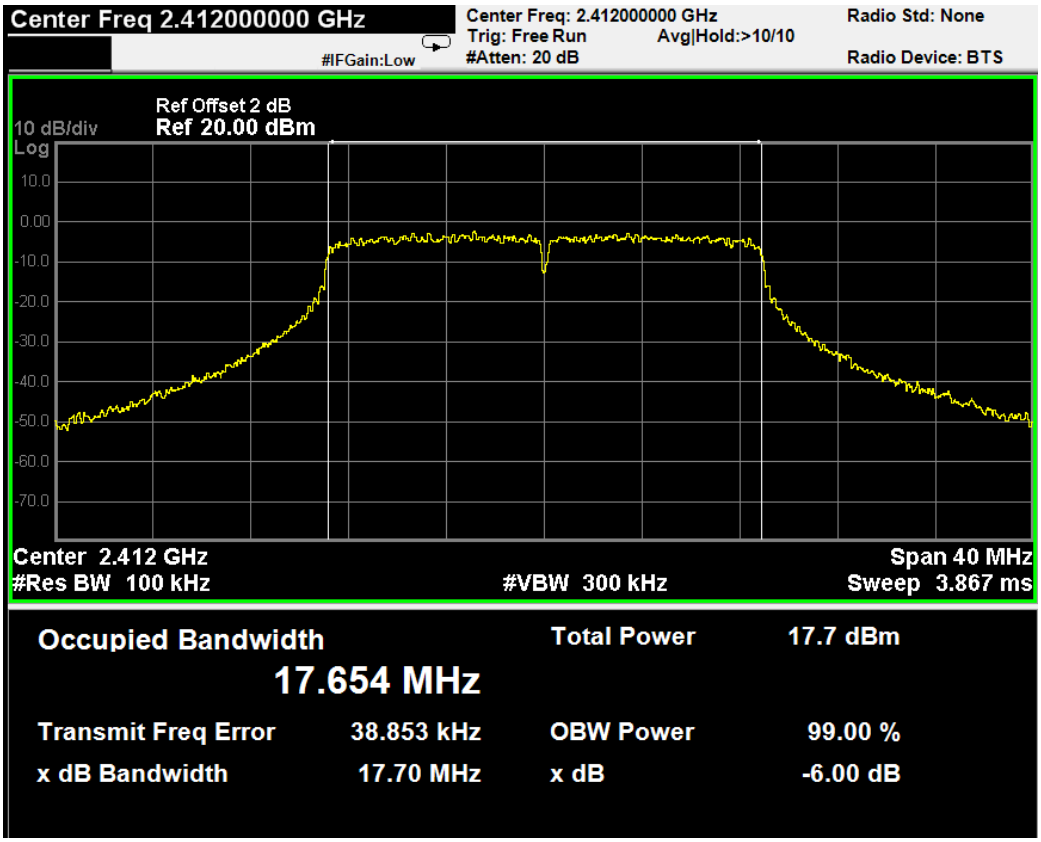
802.11g Ch 06 (2437 MHz) ANT1



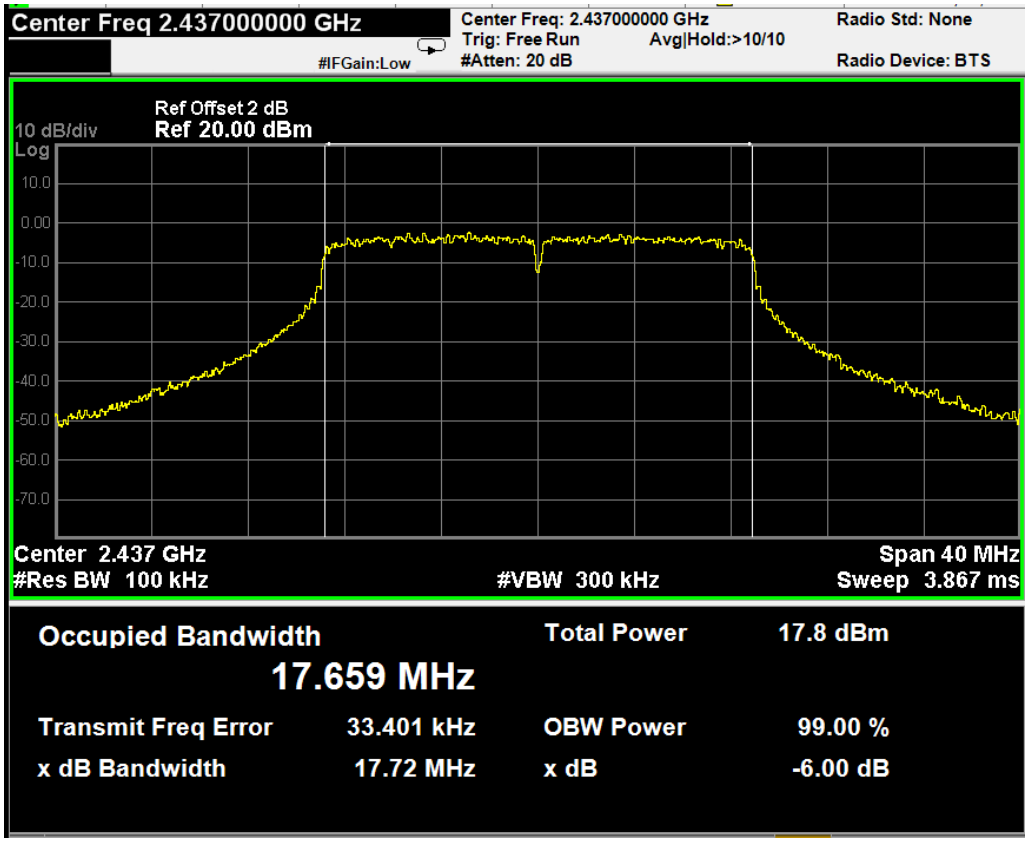
802.11g Ch 11 (2462 MHz) ANT1



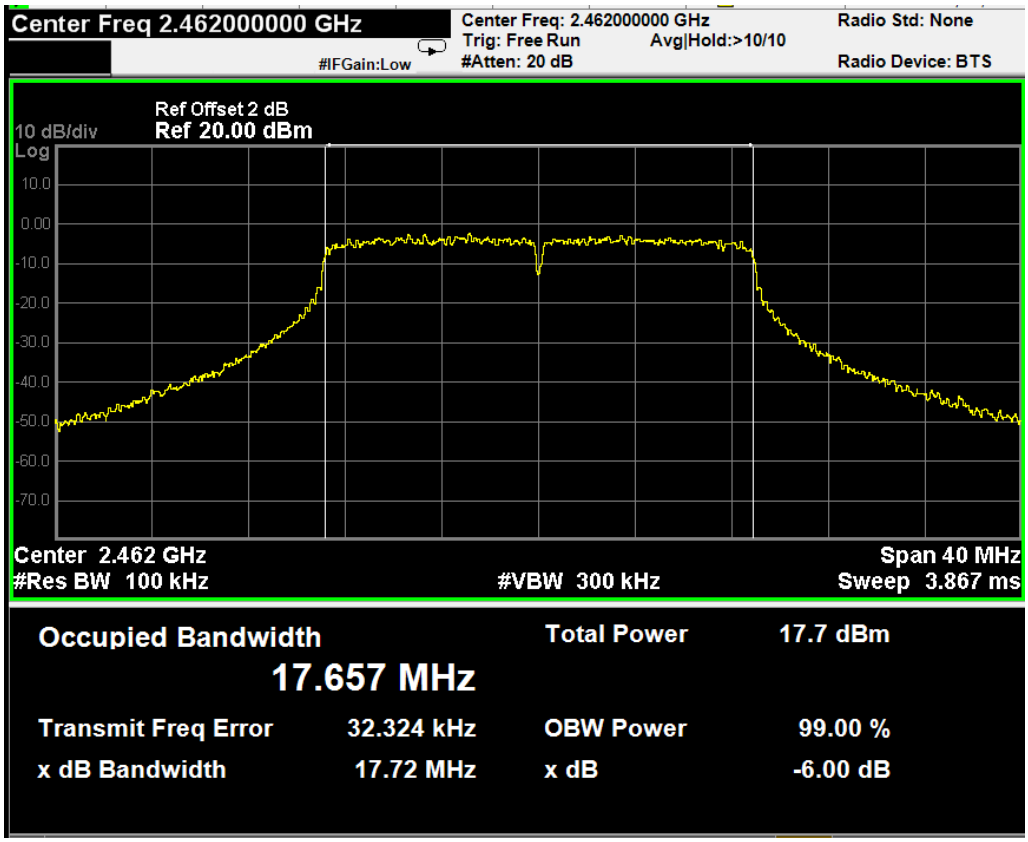
802.11n HT20 Ch 01 (2412 MHz) ANT1



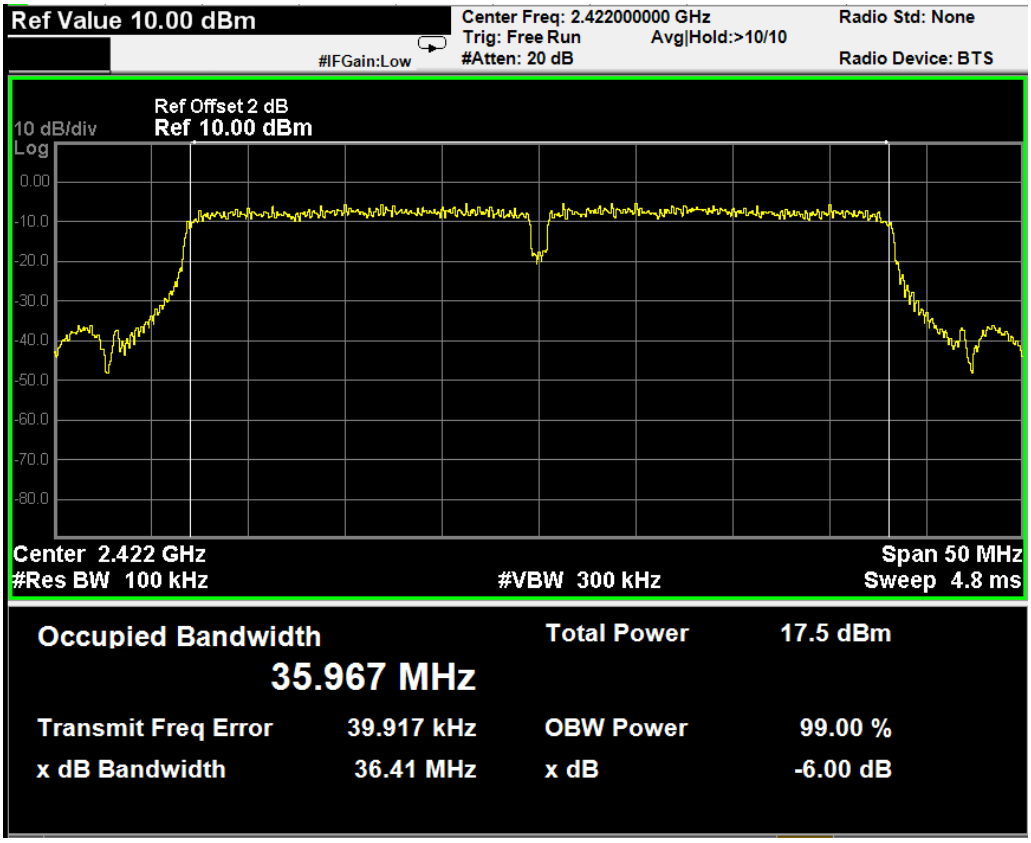
802.11n HT20 Ch 06 (2437 MHz) ANT1



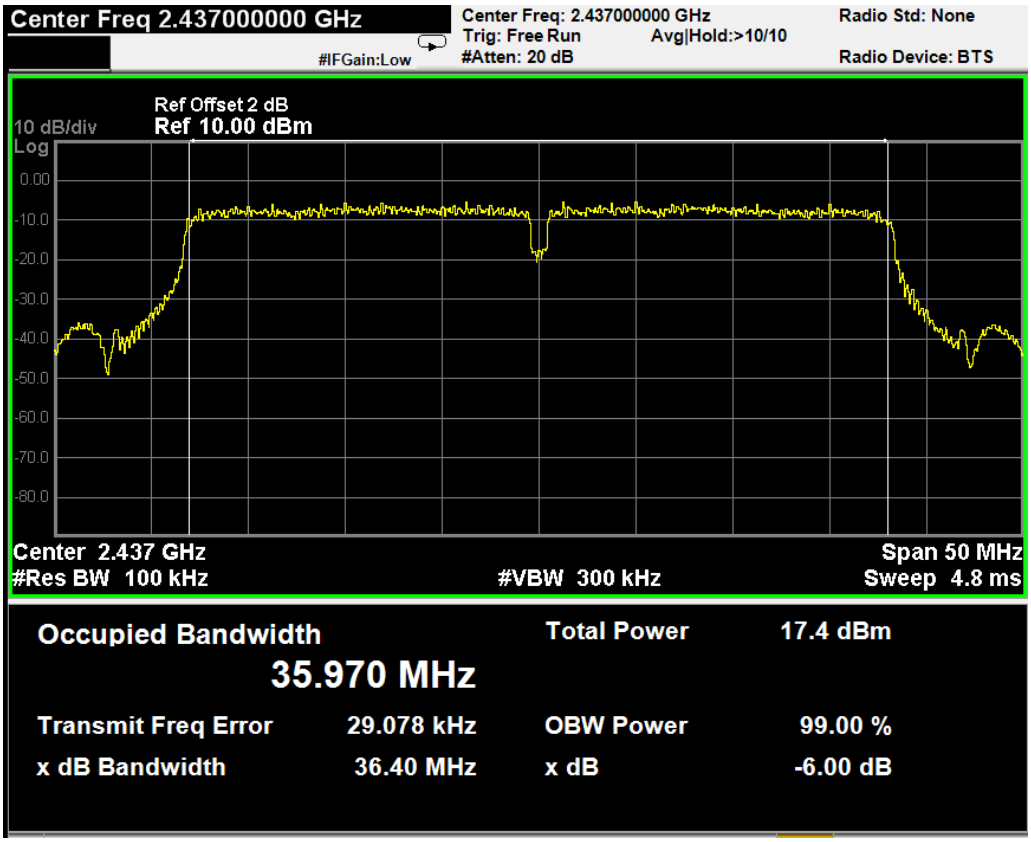
802.11n HT20 Ch 11 (2462 MHz) ANT1



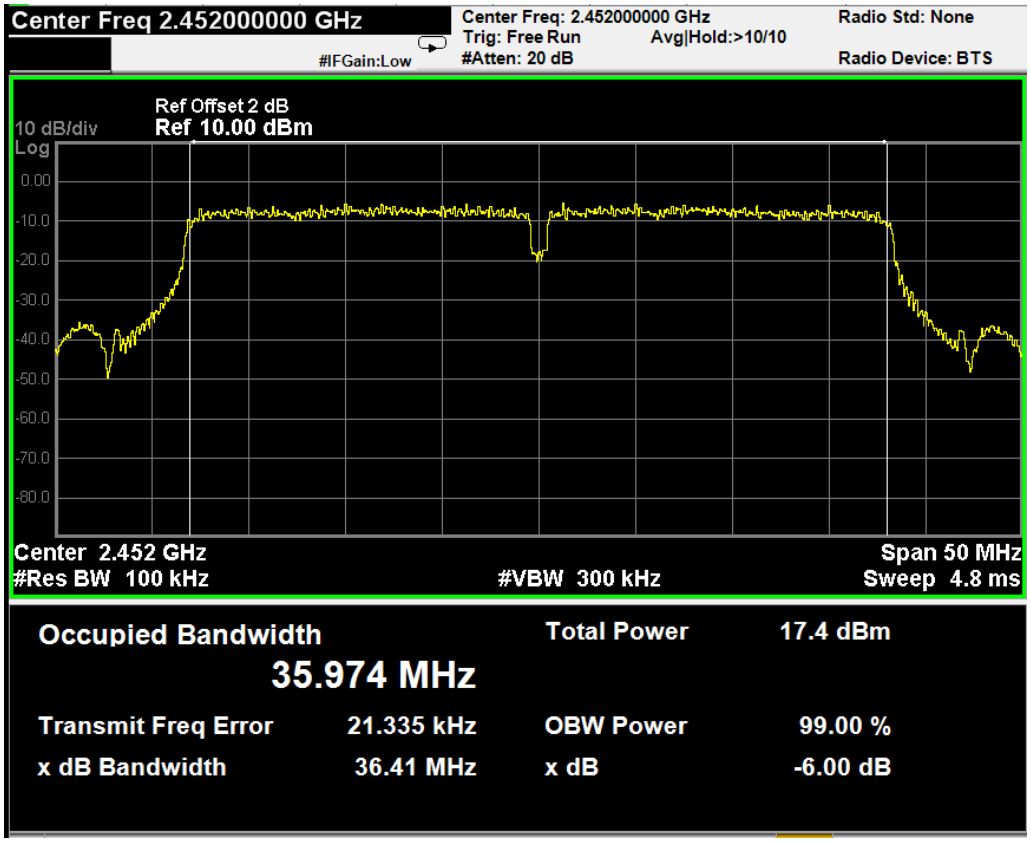
802.11n HT40 Ch 03 (2422 MHz) ANT1



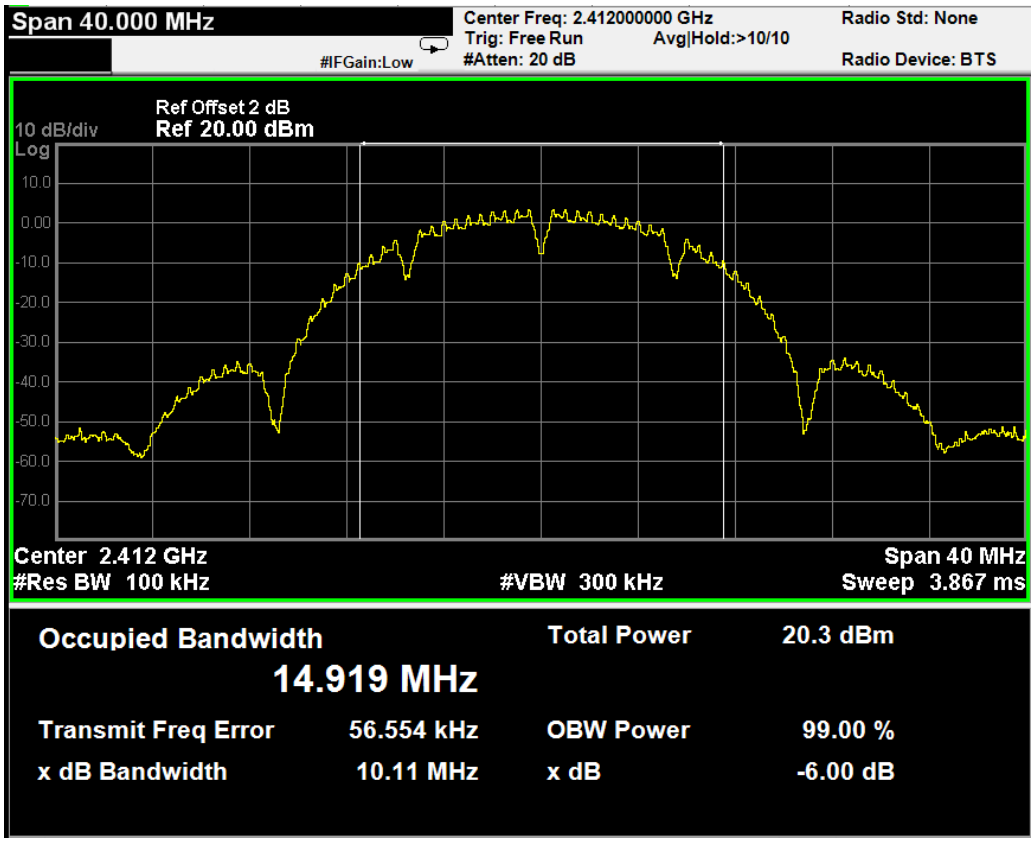
802.11n HT40 Ch 06 (2437 MHz) ANT1



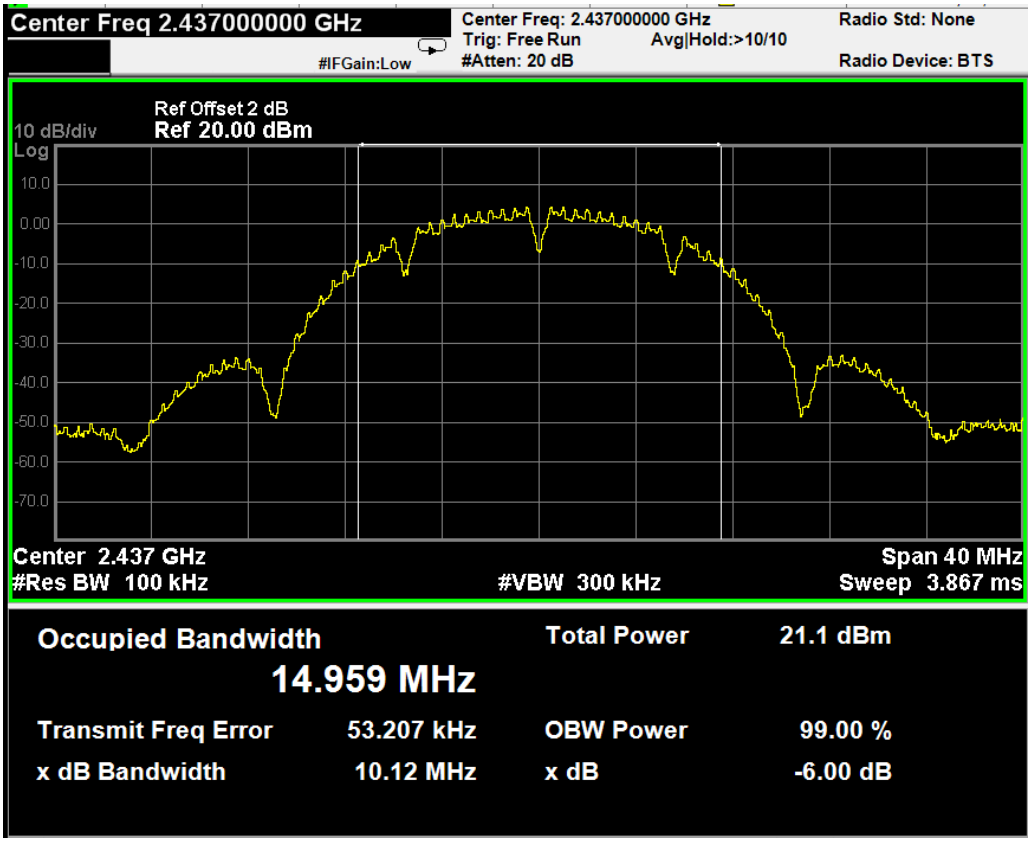
802.11n HT40 Ch 09 (2452 MHz) ANT1



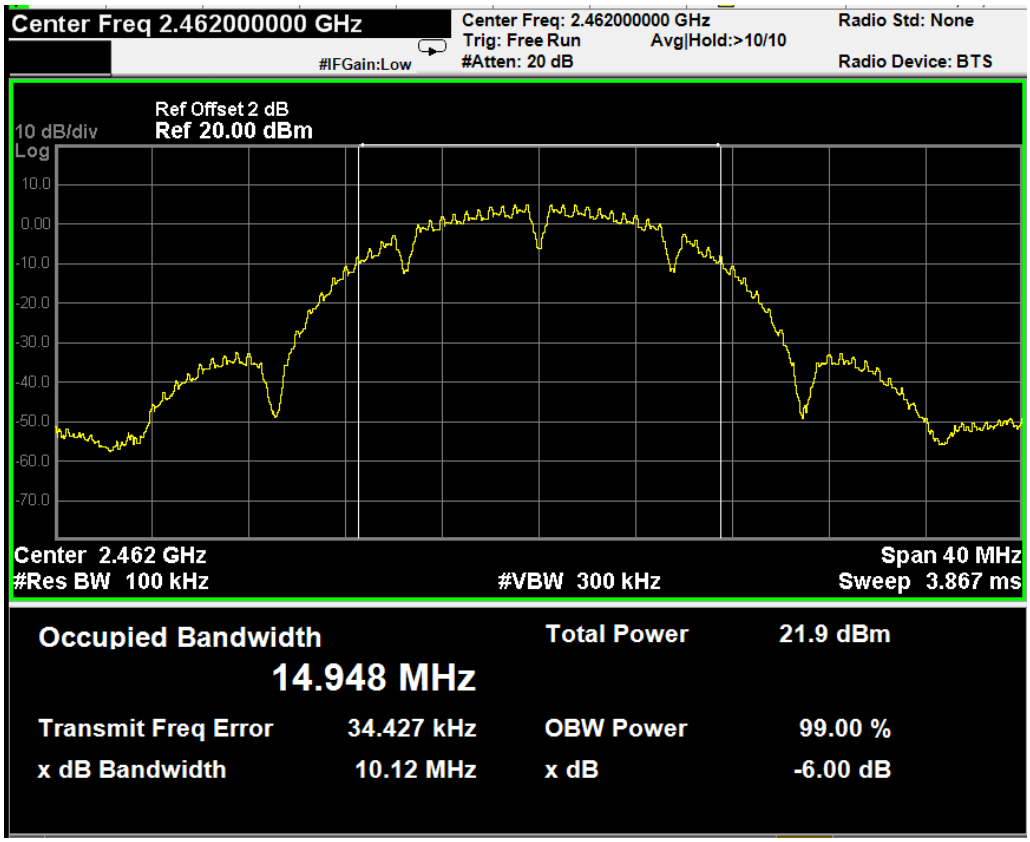
802.11b Ch 01 (2412 MHz) ANT2



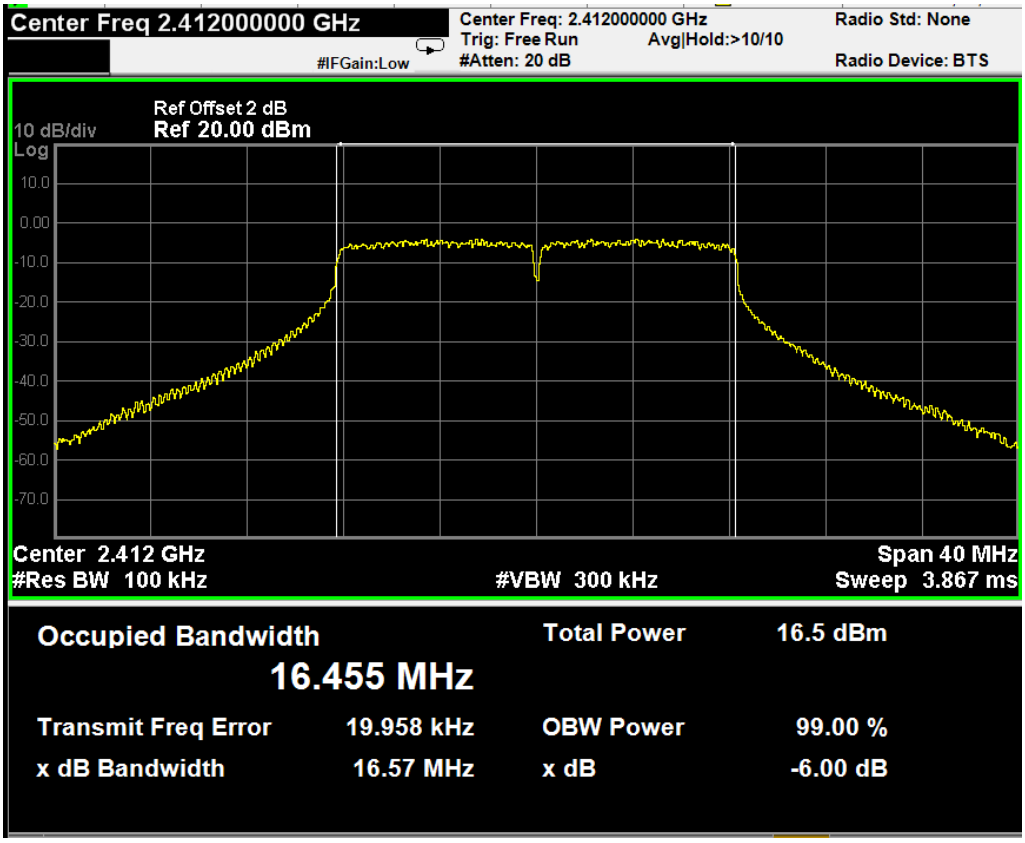
802.11b Ch 06 (2437 MHz) ANT2



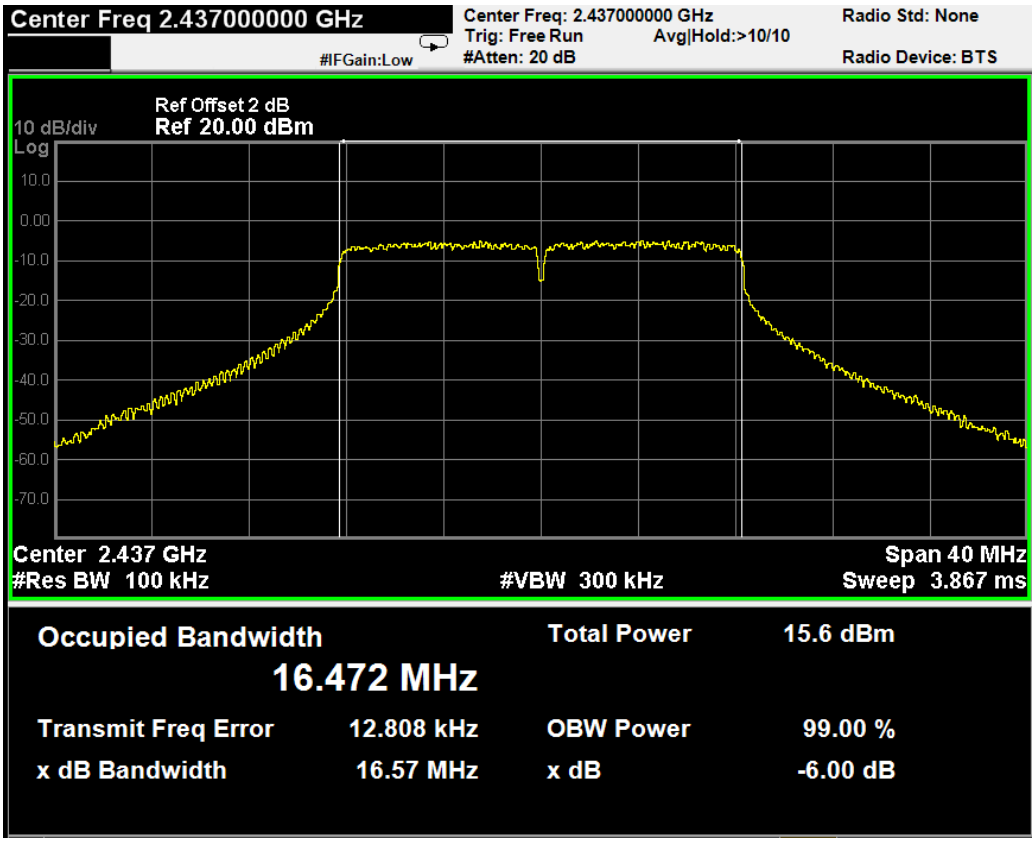
802.11b Ch 11 (2462 MHz) ANT2



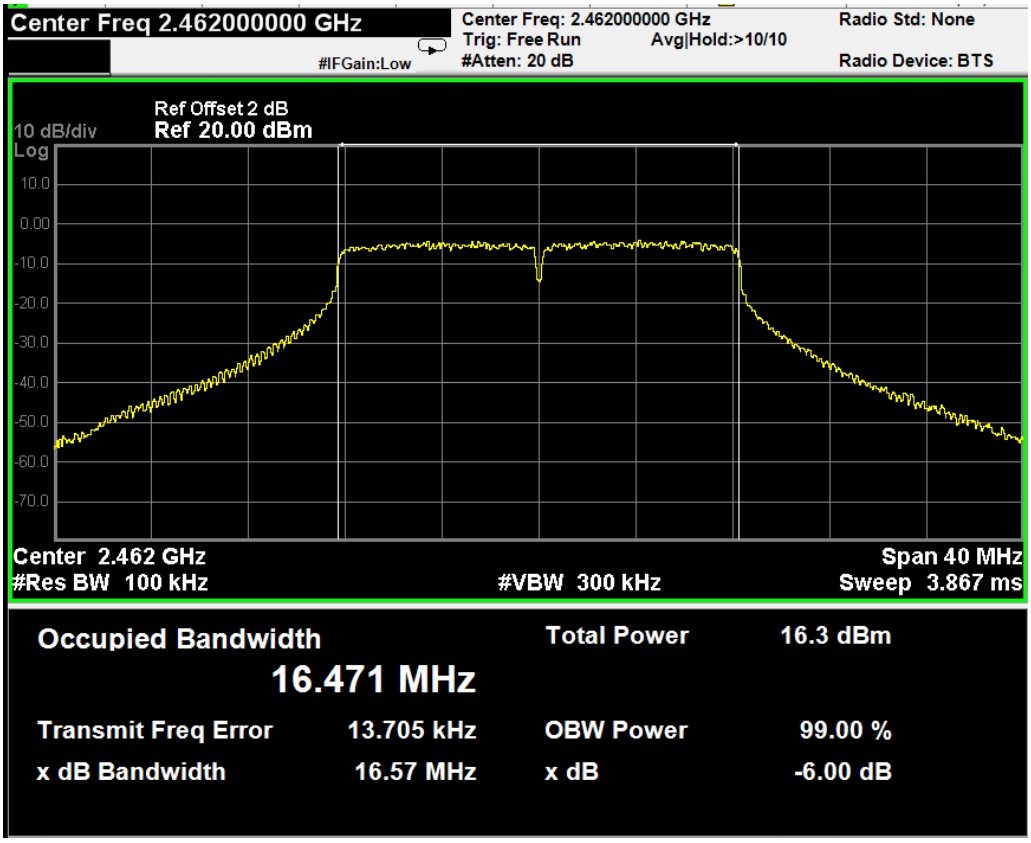
802.11g Ch 01 (2412 MHz) ANT2



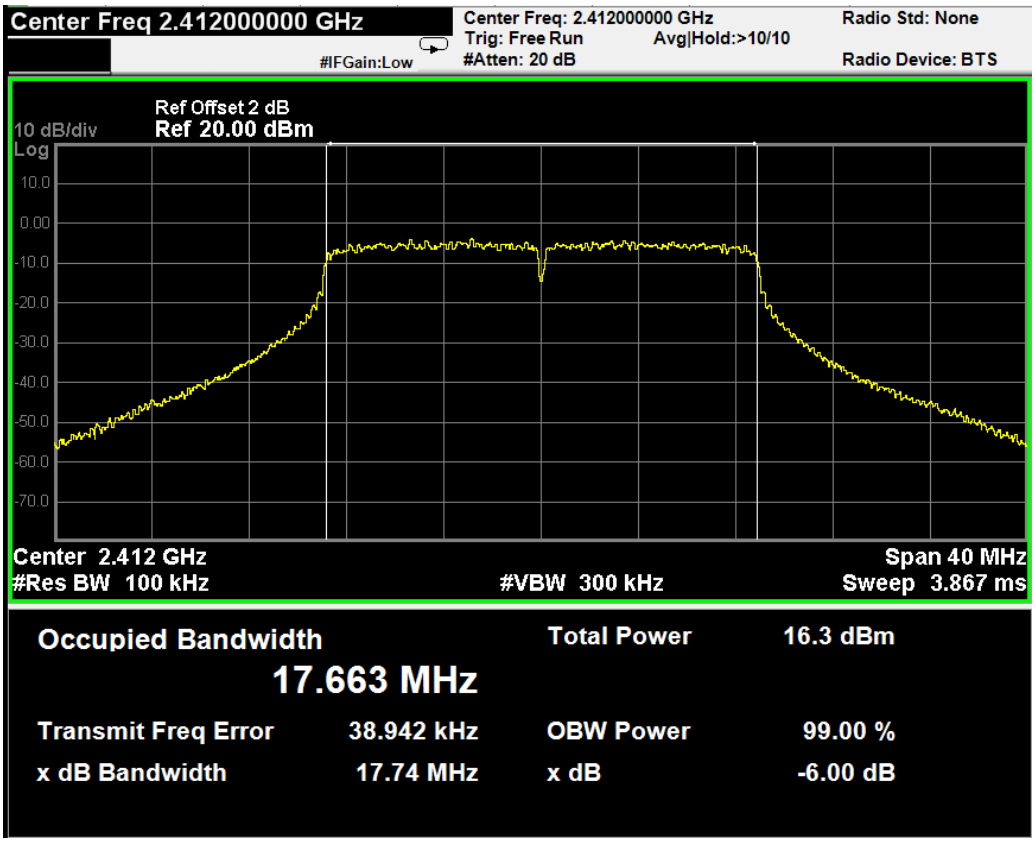
802.11g Ch 06 (2437 MHz) ANT2



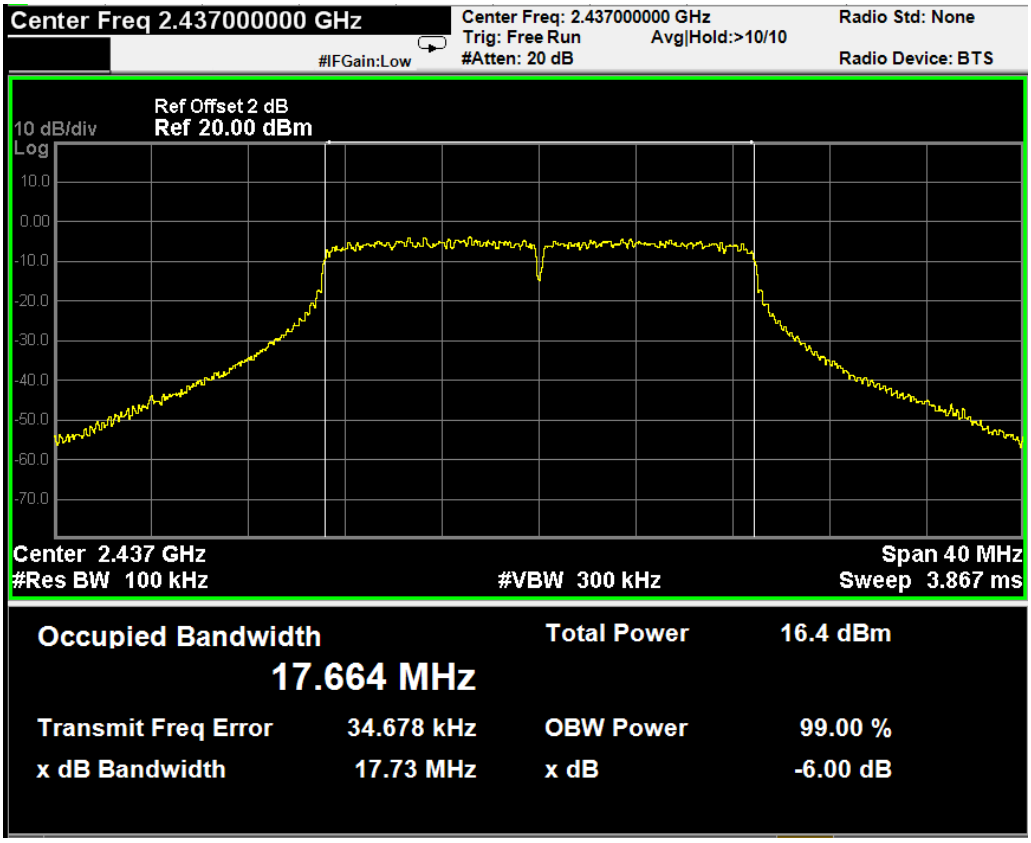
802.11g Ch 11 (2462 MHz) ANT2



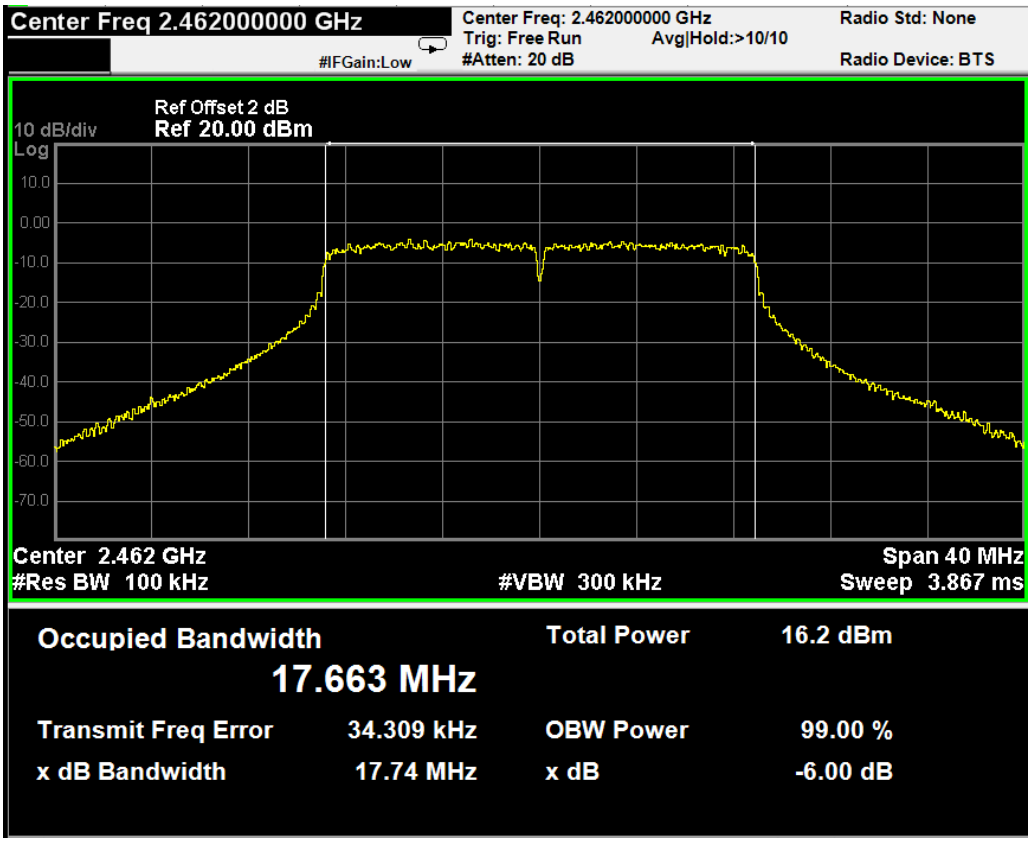
802.11n HT20 Ch 01 (2412 MHz) ANT2



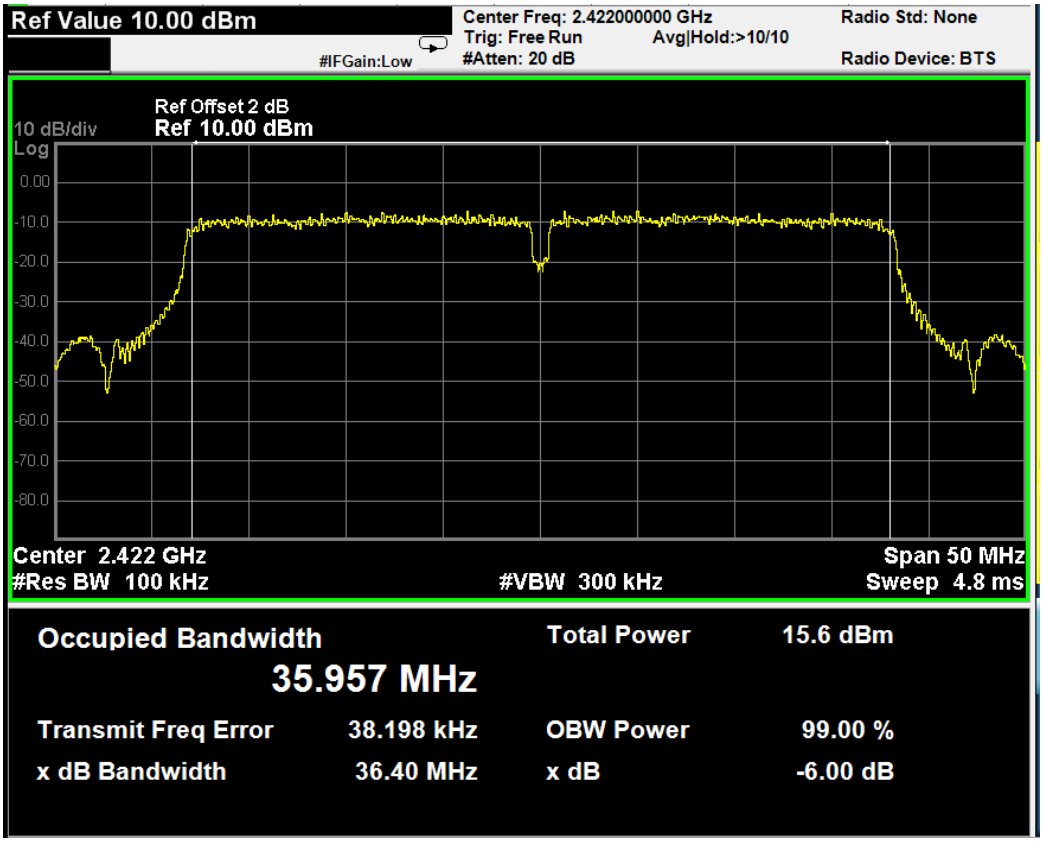
802.11n HT20 Ch 06 (2437 MHz) ANT2



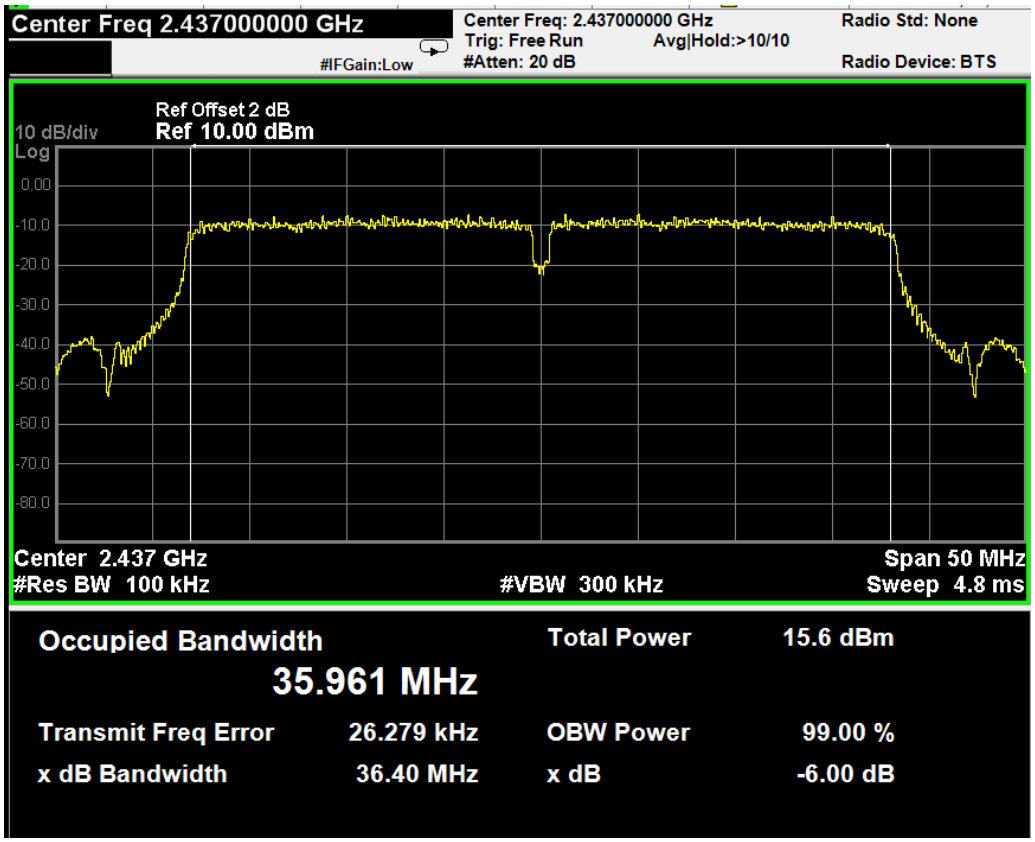
802.11n HT20 Ch 11 (2462 MHz) ANT2



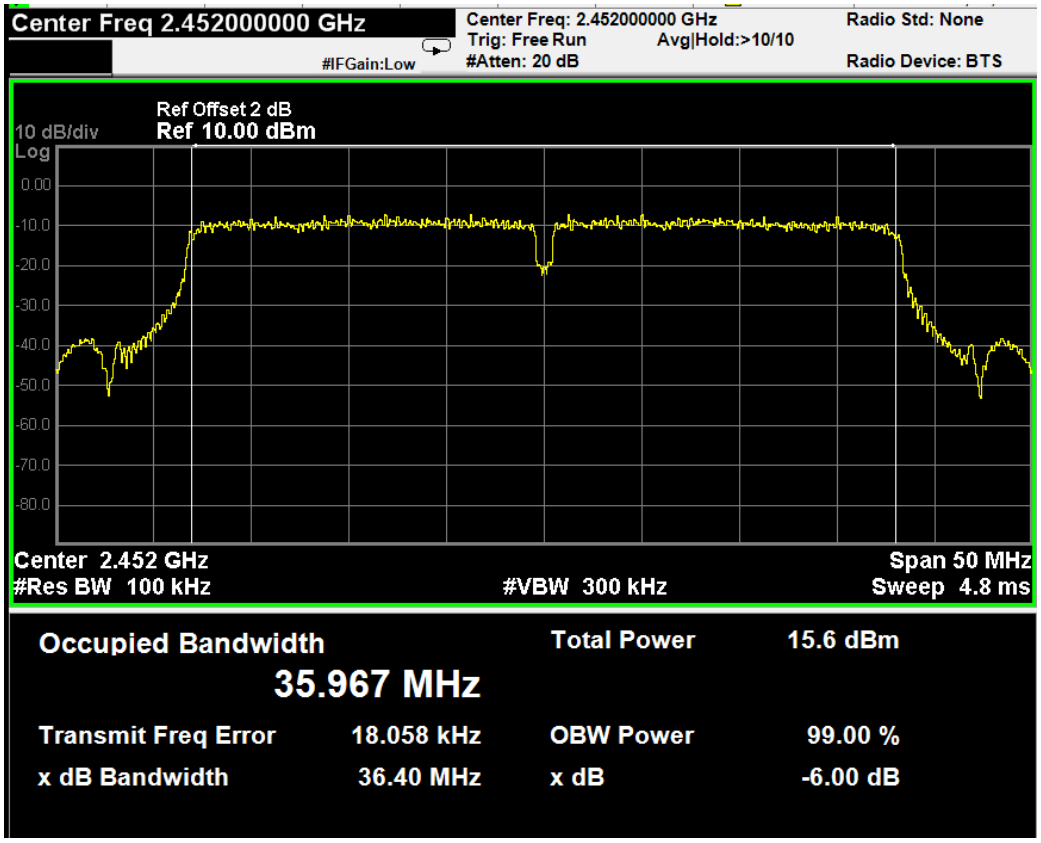
802.11n HT40 Ch 03 (2422 MHz) ANT2



802.11n HT40 Ch 06 (2437 MHz) ANT2



802.11n HT40 Ch 09 (2452 MHz) ANT2



6 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

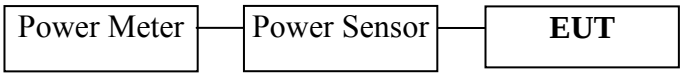
6.1 Test Equipment

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

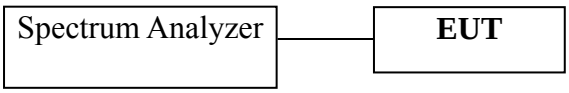
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00003245	Mar 20, 2014	Mar 19, 2015
2.	Power Sensor	Anritsu	MA2491A	32489	Mar 20, 2014	Mar 19, 2015
3.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 13, 2014

6.2 Block Diagram of Test Setup

For 802.11b/g/n HT20



For 802.11n HT40



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

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

6.4 Operating Condition of EUT

The test program “MP_TEST” was used to enable the EUT to transmit data at different channel frequency individually.

6.5 Test Procedure

This is an RF conducted test.

For 802.11b/g/n HT20:
Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation. We use PKPM1 Peak power meter method (which defined in KDB558074 D01 v03r01 sec. 9.1.3) to measure the power output. 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.

For 802.11n HT40:
The transmitter output was connected to the Spectrum Analyzer. The Spectrum Analyzer was set as RBW = 1MHz, VBW = 10MHz (must be ≥ 3 x RBW), span ≥ 1.5 x DTS bandwidth. Use the Spectrum Analyzer’s band power measurement function with the band limits set equal to the DTS bandwidth edges.
The test procedure is defined in KDB558074 D01 v03r01 (the 9.1.2 Measurement Procedure “Integration band power method)” was used).

6.6 Test Results

PASSED. All the test results are listed below.

(Test Date: May 13, 2014 Temperature: 24℃ Humidity: 45 %)

ANT 1

Modulation	Channel	Frequency	**Peak Output Power**	Limit
802.11b	01	2412 MHz	**17.56 dBm**	30 dBm
	06	2437 MHz	**17.95 dBm**	30 dBm
	11	2462 MHz	**18.04 dBm**	30 dBm
802.11g	01	2412 MHz	**19.89 dBm**	30 dBm
	06	2437 MHz	**20.23 dBm**	30 dBm
	11	2462 MHz	**20.05 dBm**	30 dBm

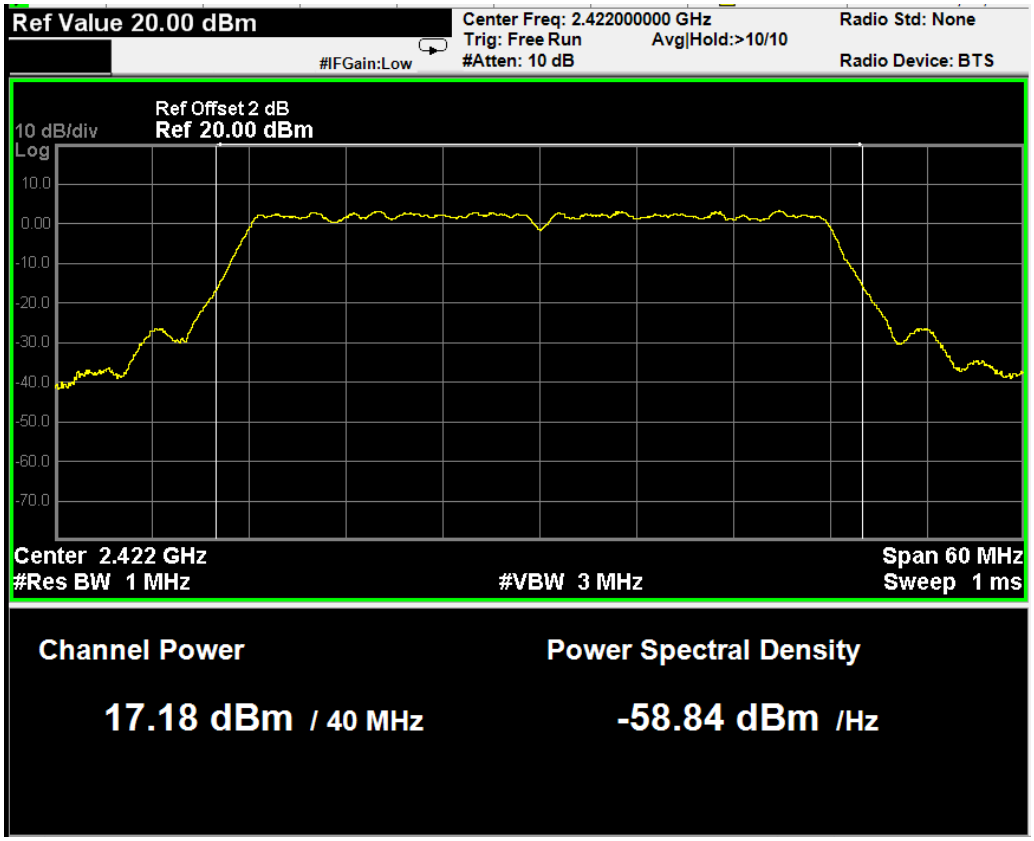
ANT 2

Modulation	Channel	Frequency	**Peak Output Power**	Limit
802.11b	01	2412 MHz	**16.01 dBm**	30 dBm
	06	2437 MHz	**16.37 dBm**	30 dBm
	11	2462 MHz	**16.49 dBm**	30 dBm
802.11g	01	2412 MHz	**17.98 dBm**	30 dBm
	06	2437 MHz	**18.35 dBm**	30 dBm
	11	2462 MHz	**18.37 dBm**	30 dBm

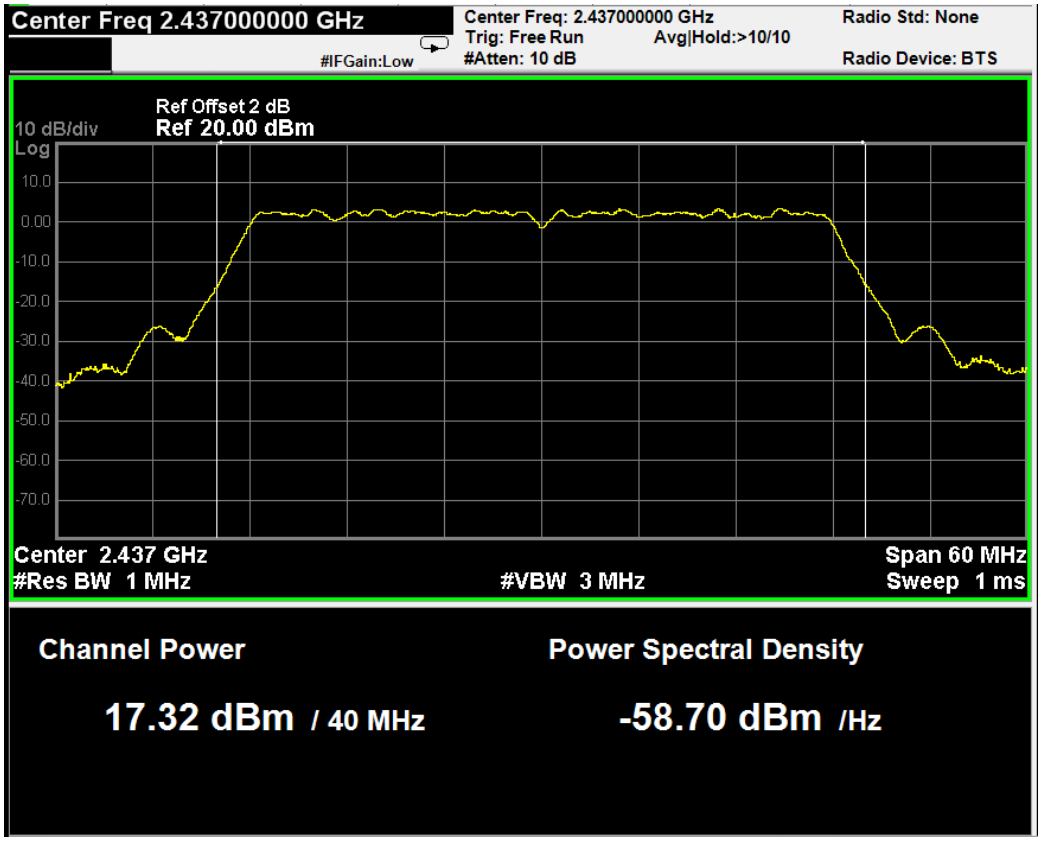
802.11n

Modulation	Channel	Frequency	Peak Output Power ANT1	Peak Output Power ANT 2	**Total Peak Output Power**	Limit
802.11n HT20	01	2412 MHz	19.48 dBm	17.59 dBm	**21.65 dBm**	30 dBm
	06	2437 MHz	19.70 dBm	17.88 dBm	**21.89 dBm**	30 dBm
	11	2462 MHz	19.66 dBm	17.98 dBm	**21.91 dBm**	30 dBm
802.11n HT40	03	2422 MHz	17.18 dBm	16.14 dBm	**19.70 dBm**	30 dBm
	06	2437 MHz	17.32 dBm	16.07 dBm	**19.75 dBm**	30 dBm
	09	2452 MHz	17.33 dBm	16.04 dBm	**19.74 dBm**	30 dBm

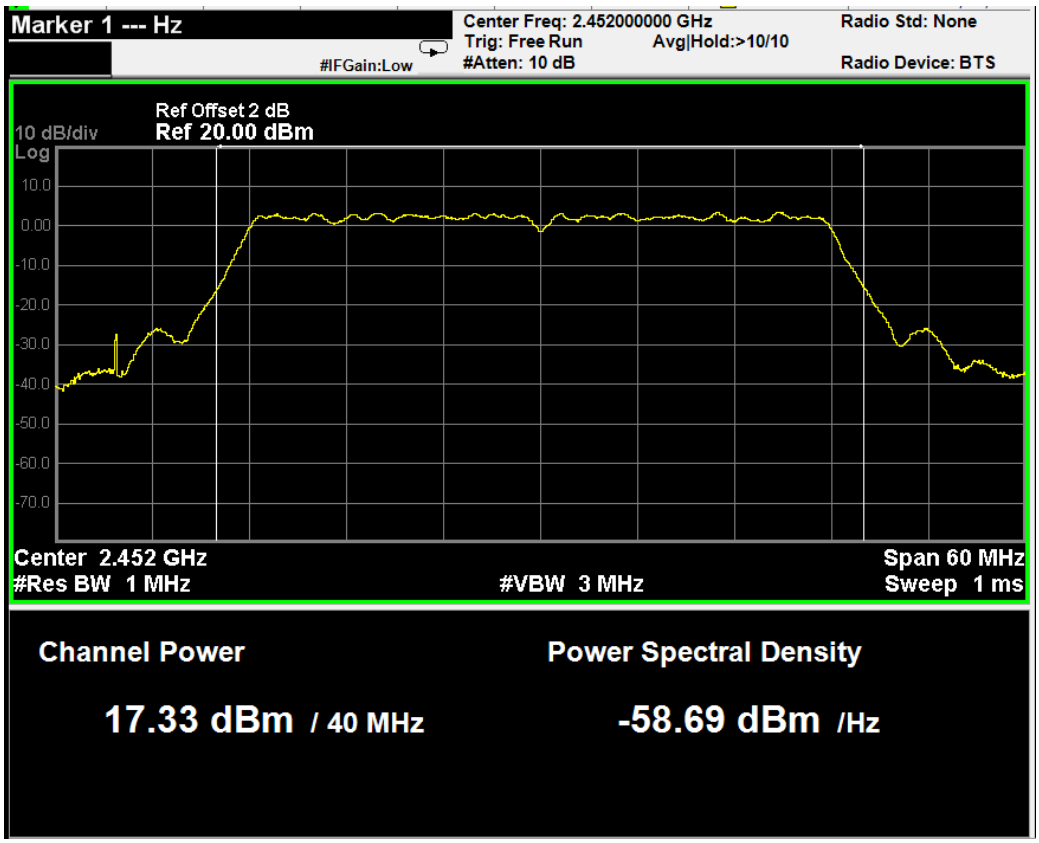
802.11n HT40 Ch03 ANT1



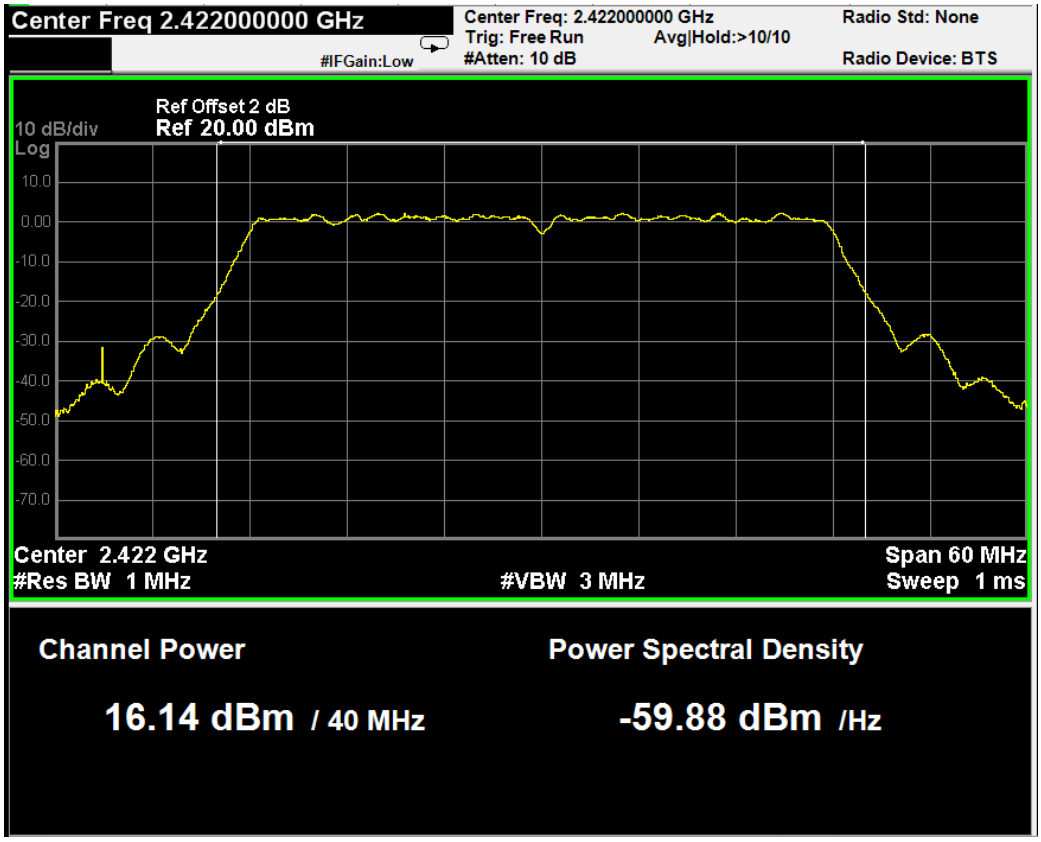
802.11n HT40 Ch06 ANT1



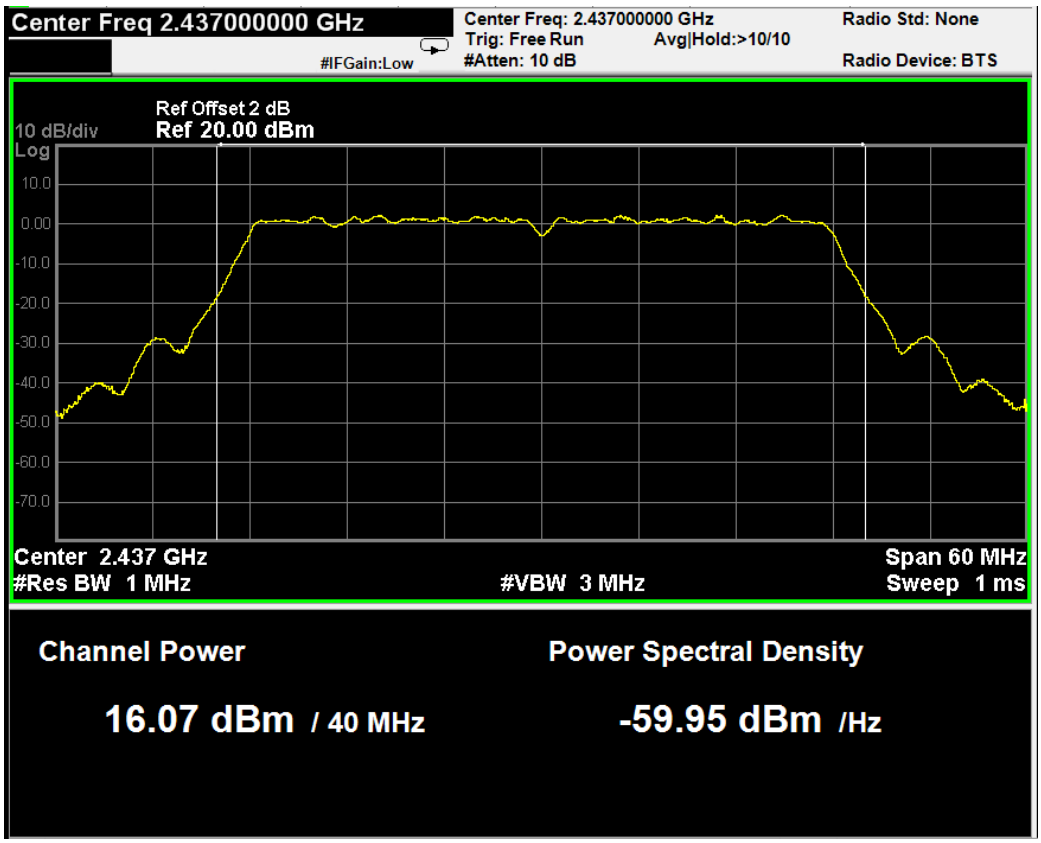
802.11n HT40 Ch09 ANT1



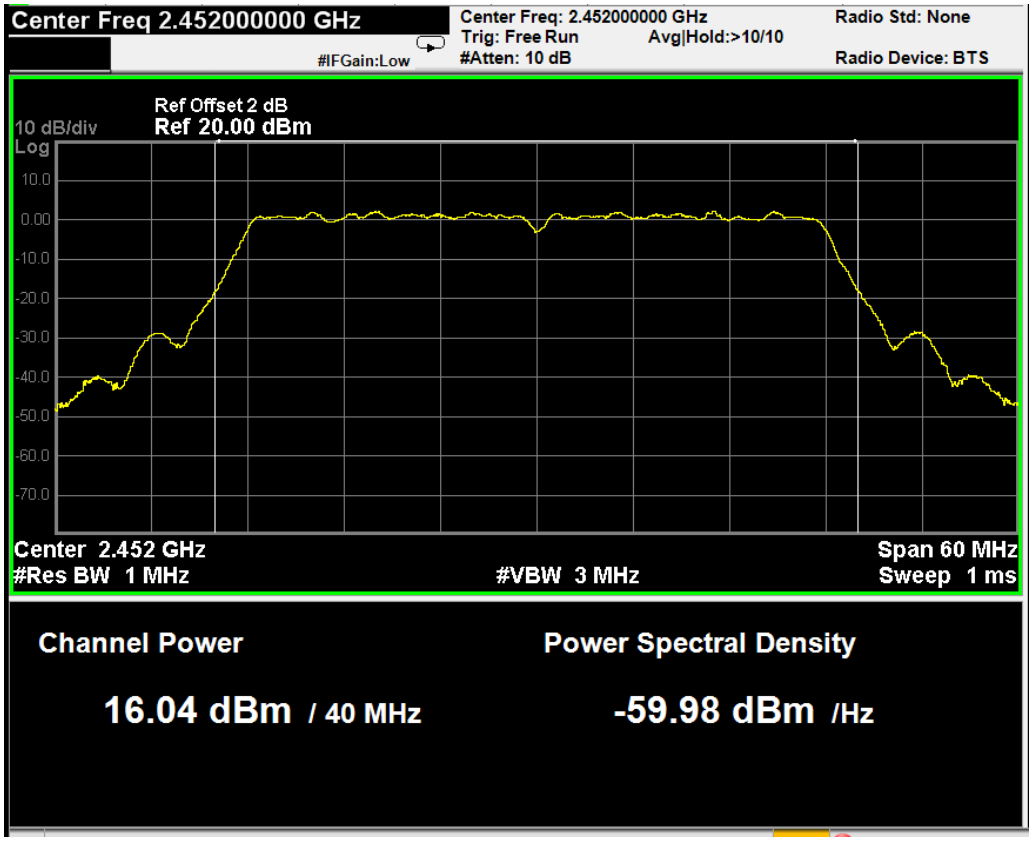
802.11n HT40 Ch03 ANT2



802.11n HT40 Ch06 ANT2



802.11n HT40 Ch09 ANT2



7 EMISSION LIMITATIONS MEASUREMENT

7.1 Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 13, 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 “MP_TEST” 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 Test Receiver. Set RBW = 100 kHz, VBW ≥ 300 kHz, scan up through 10th harmonic. 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 D01 v03r01 (the 11.3 Emission Level Measurement was used).

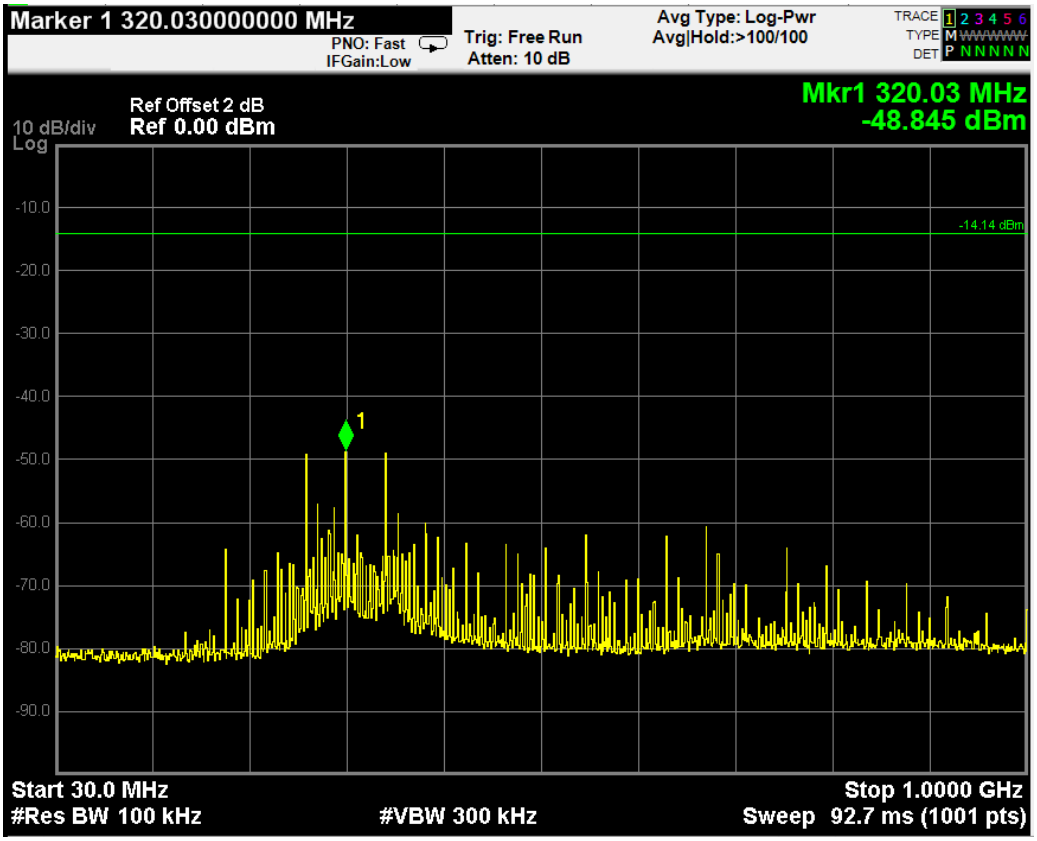
7.6 Test Results

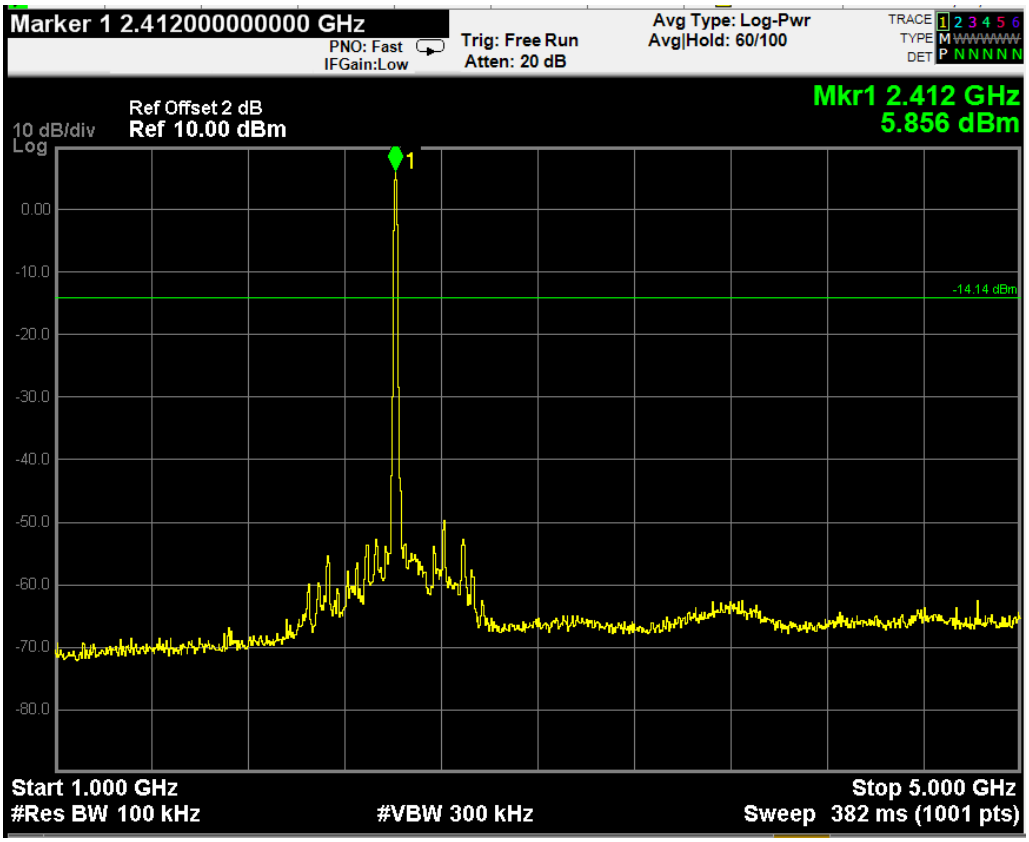
PASSED.
The test data was attached in the next pages.

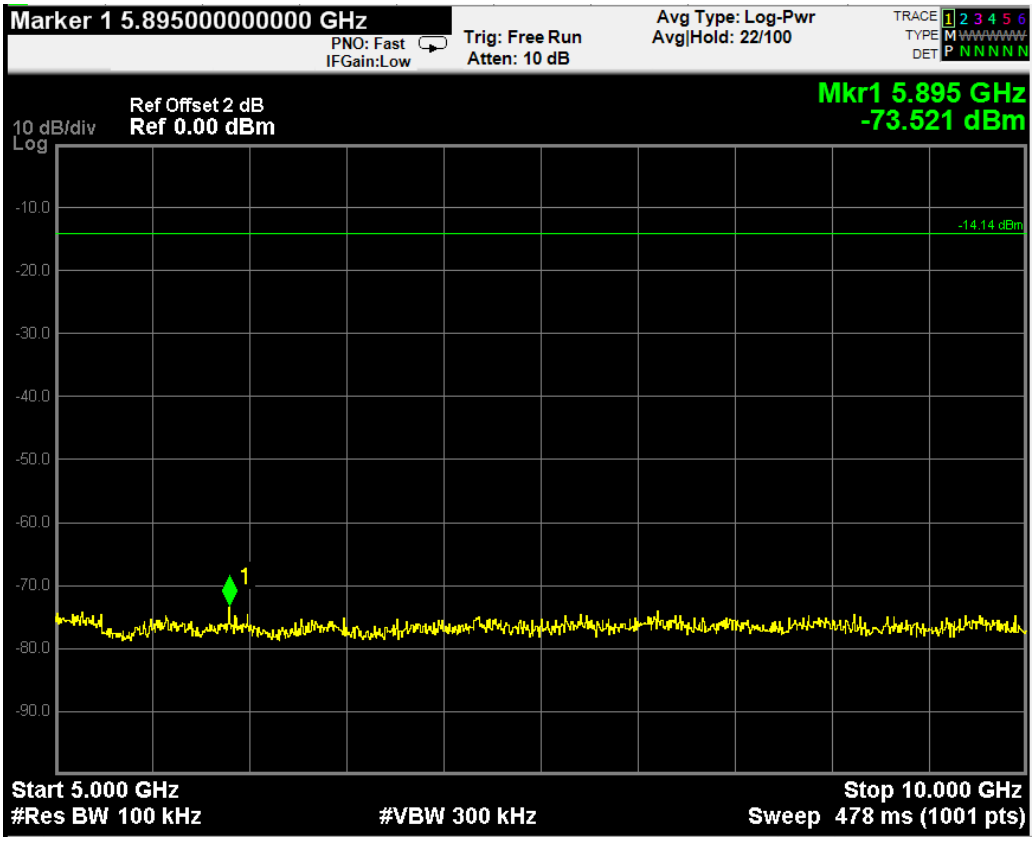
(Test Date: May 09, 2014 Temperature: 27℃ Humidity: 50 %)

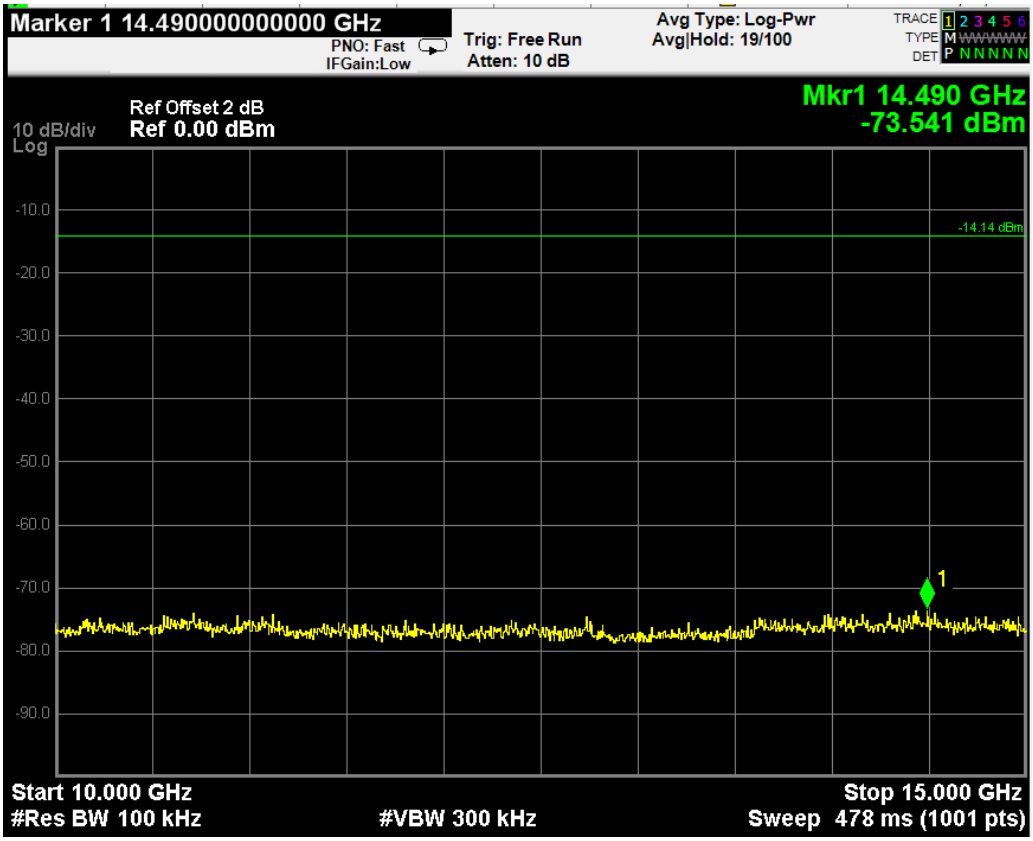
Modulation	Channel	Data Page
802.11b ANT1	01	P93-95
	06	P96-98
	11	P99-101
802.11g ANT1	01	P102-104
	06	P105-107
	11	P108-110
802.11n HT20 ANT1	01	P111-113
	06	P114-116
	11	P117-119
802.11n HT40 ANT1	03	P120-122
	06	P123-125
	09	P126-128
802.11b ANT2	01	P129-131
	06	P132-134
	11	P135-137
802.11g ANT2	01	P138-140
	06	P141-143
	11	P144-146
802.11n HT20 ANT2	01	P147-149
	06	P150-152
	11	P153-155
802.11n HT40 ANT2	03	P156-158
	06	P159-161
	09	P162-164

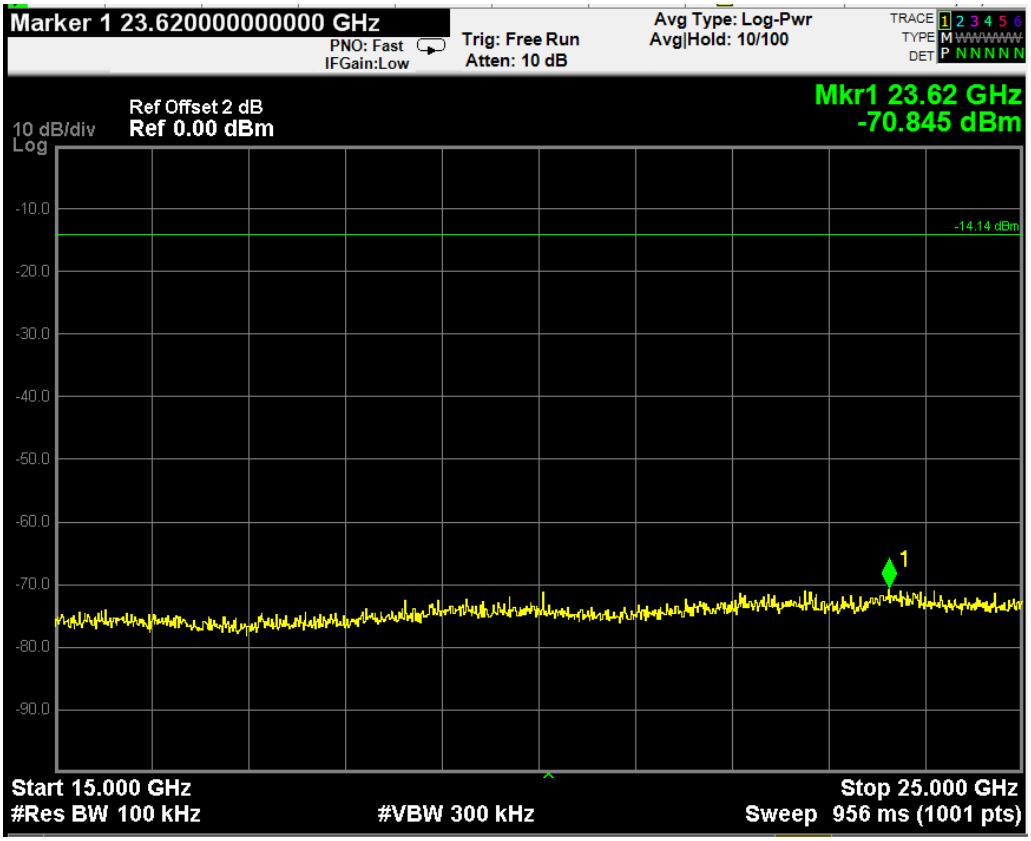
802.11b Ch 01 (2412 MHz) ANT1



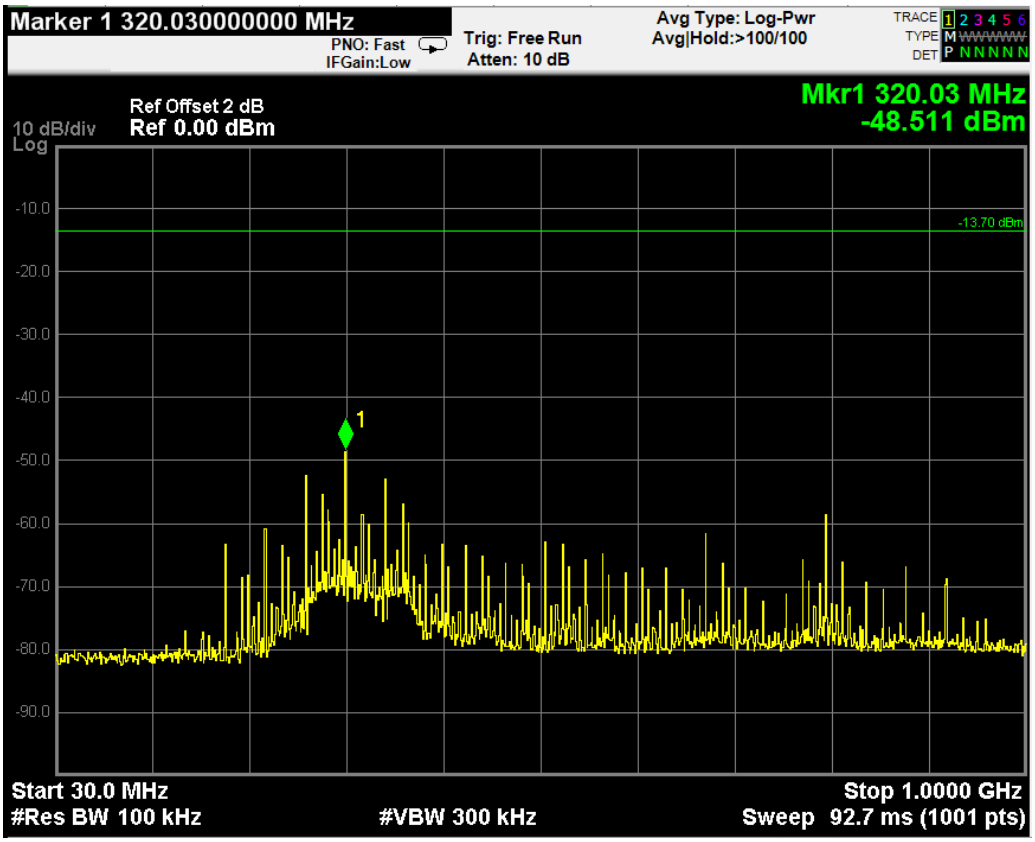


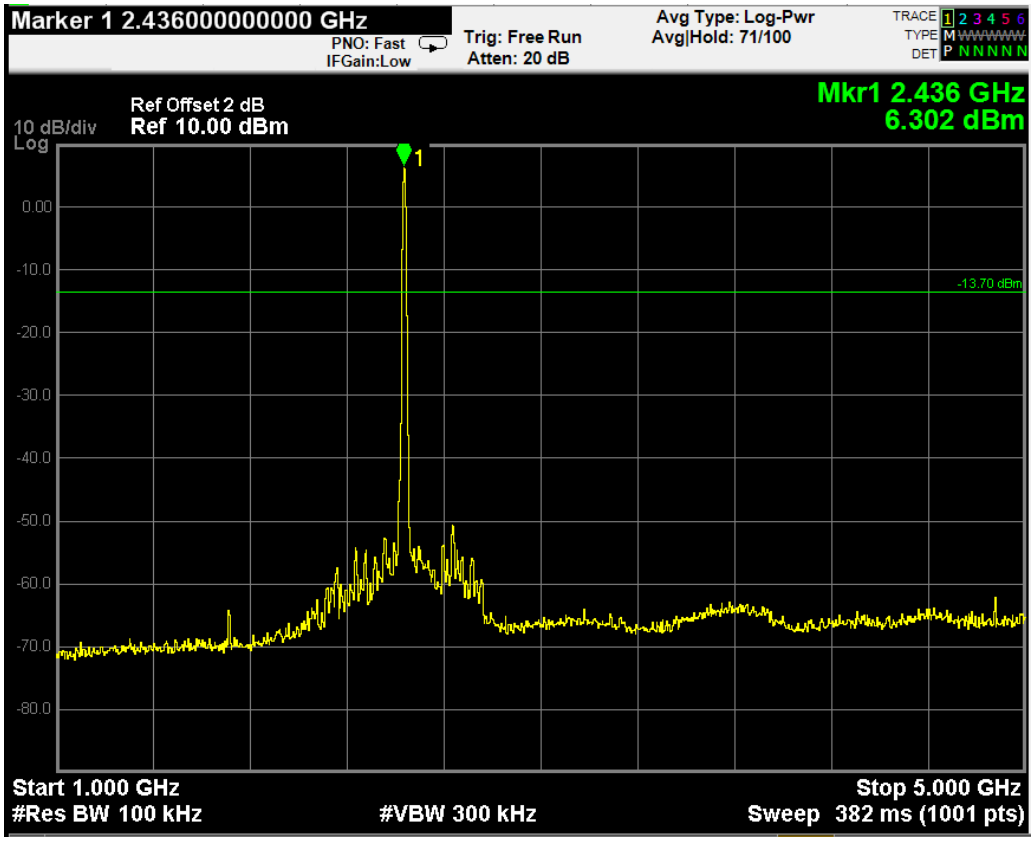

Marker 1 5.895000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.895 GHz
-73.521 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.14 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

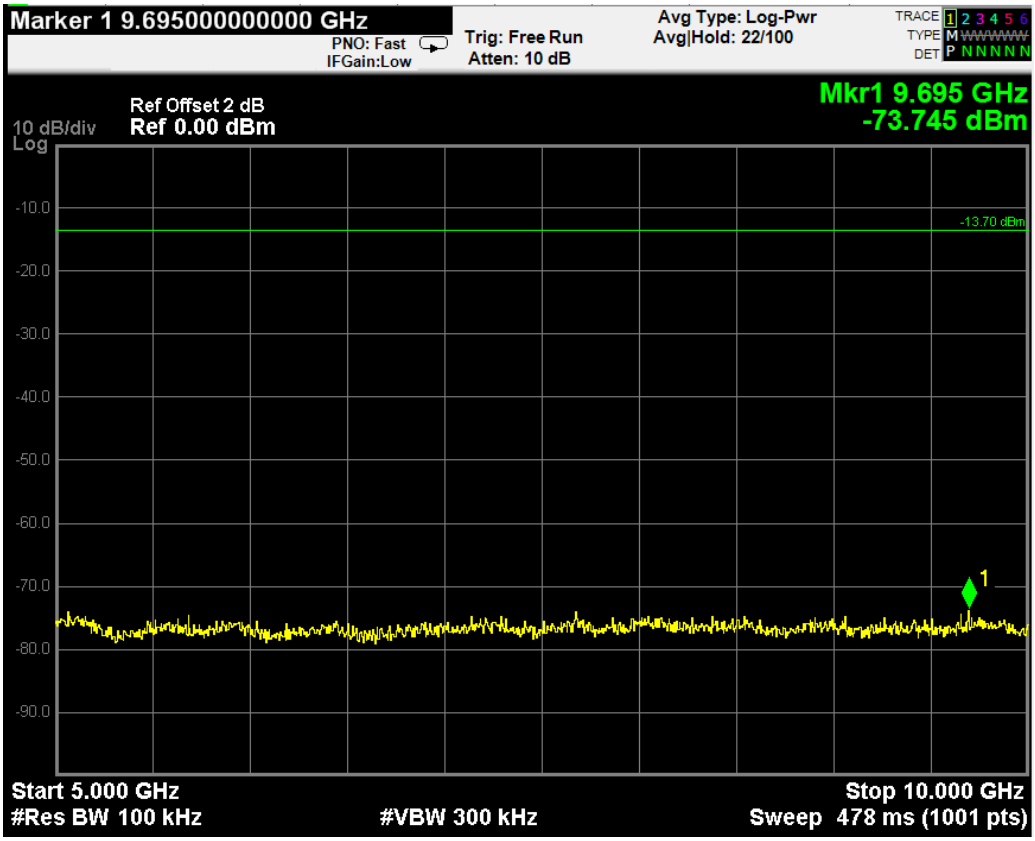

Marker 1 14.490000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 19/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.490 GHz
-73.541 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.14 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

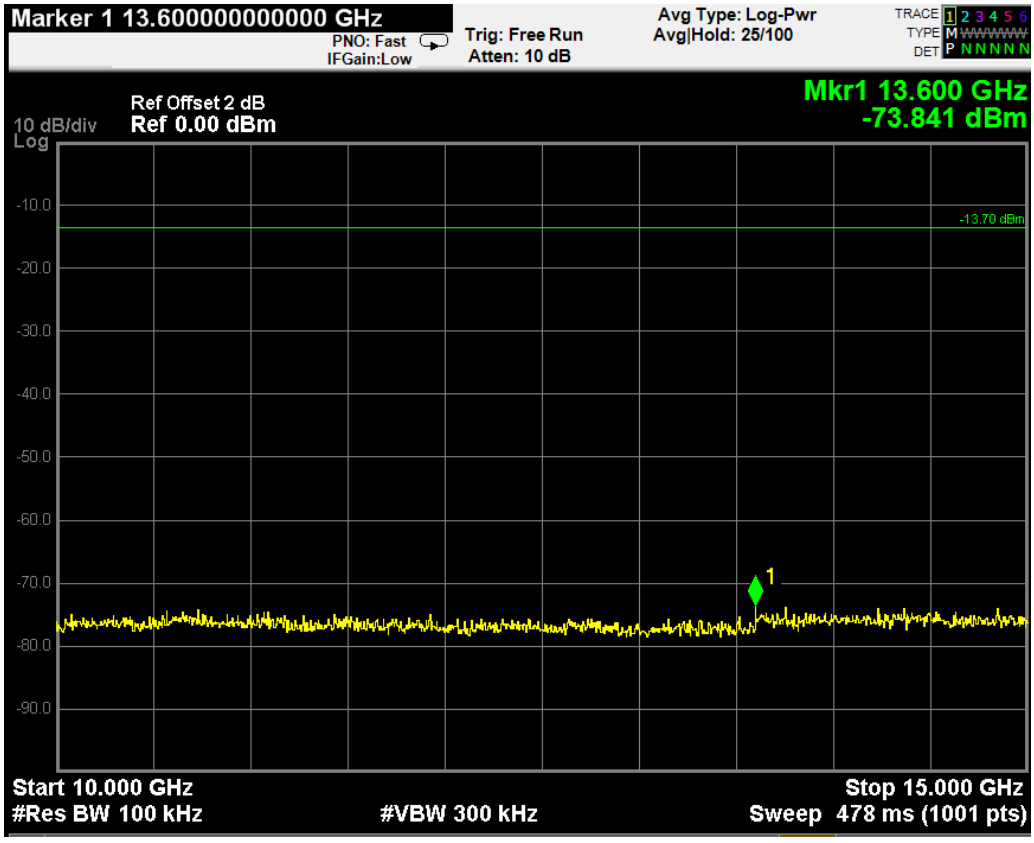

Marker 1 23.620000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 10/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.62 GHz
-70.845 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.14 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

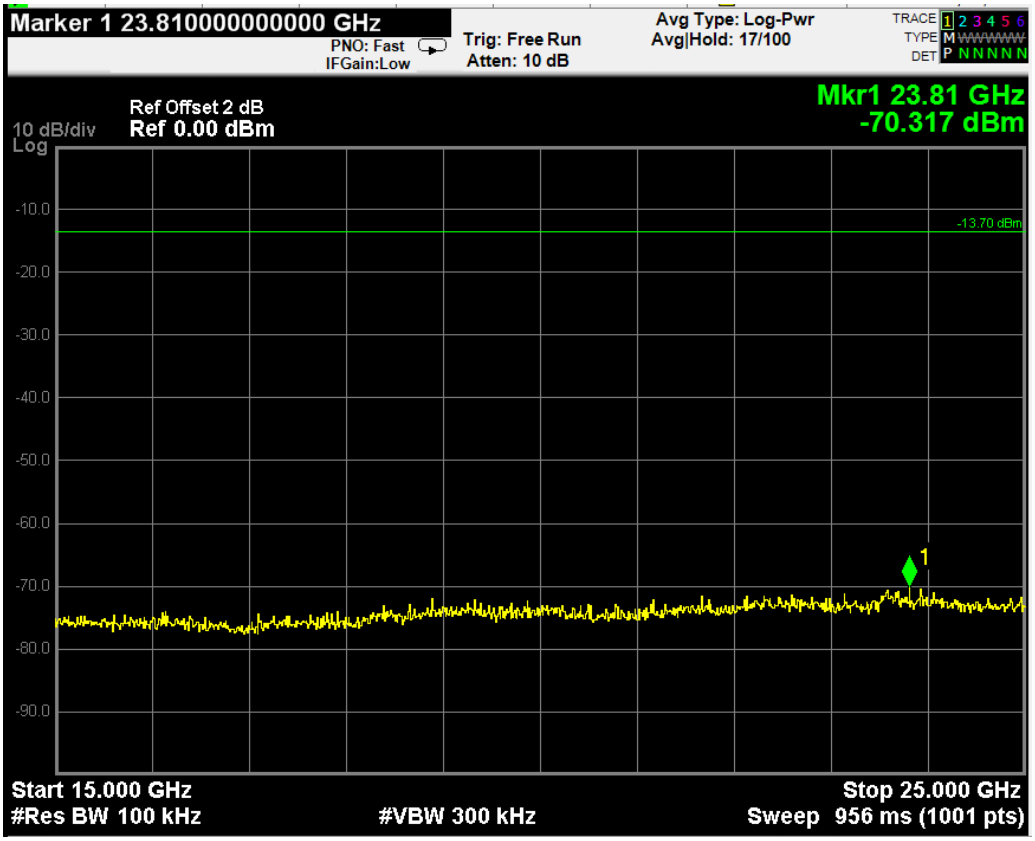
802.11b Ch 06 (2437 MHz) ANT1



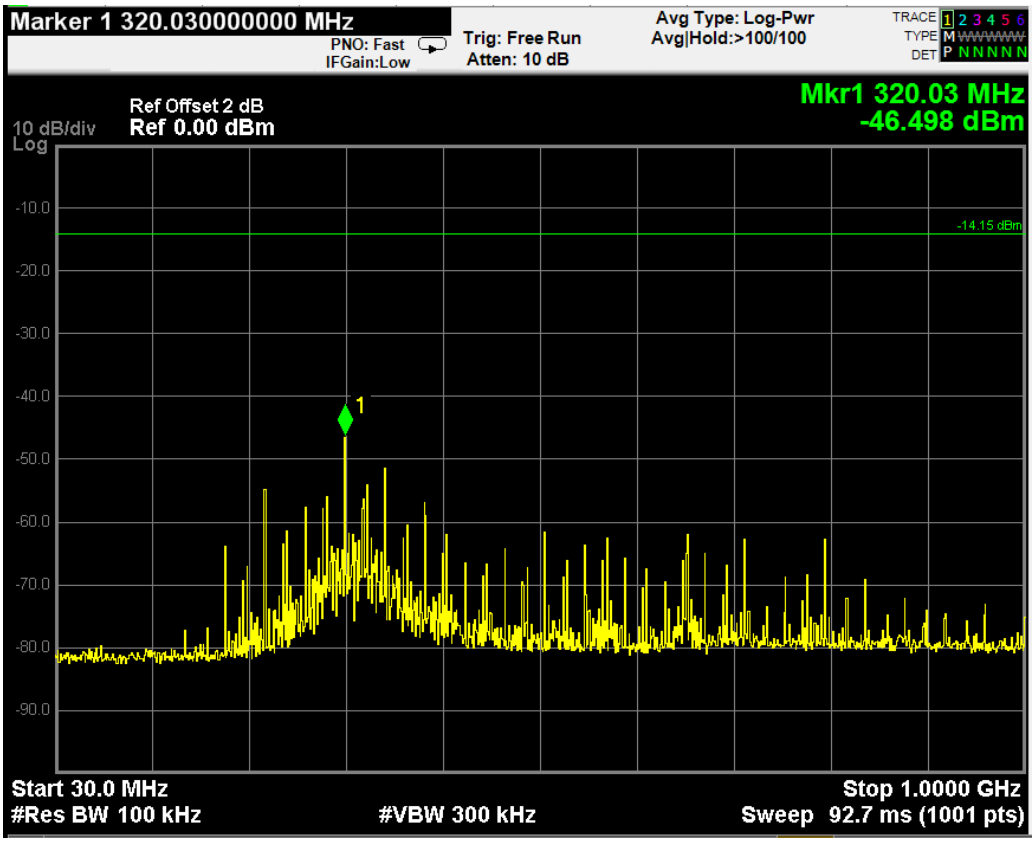


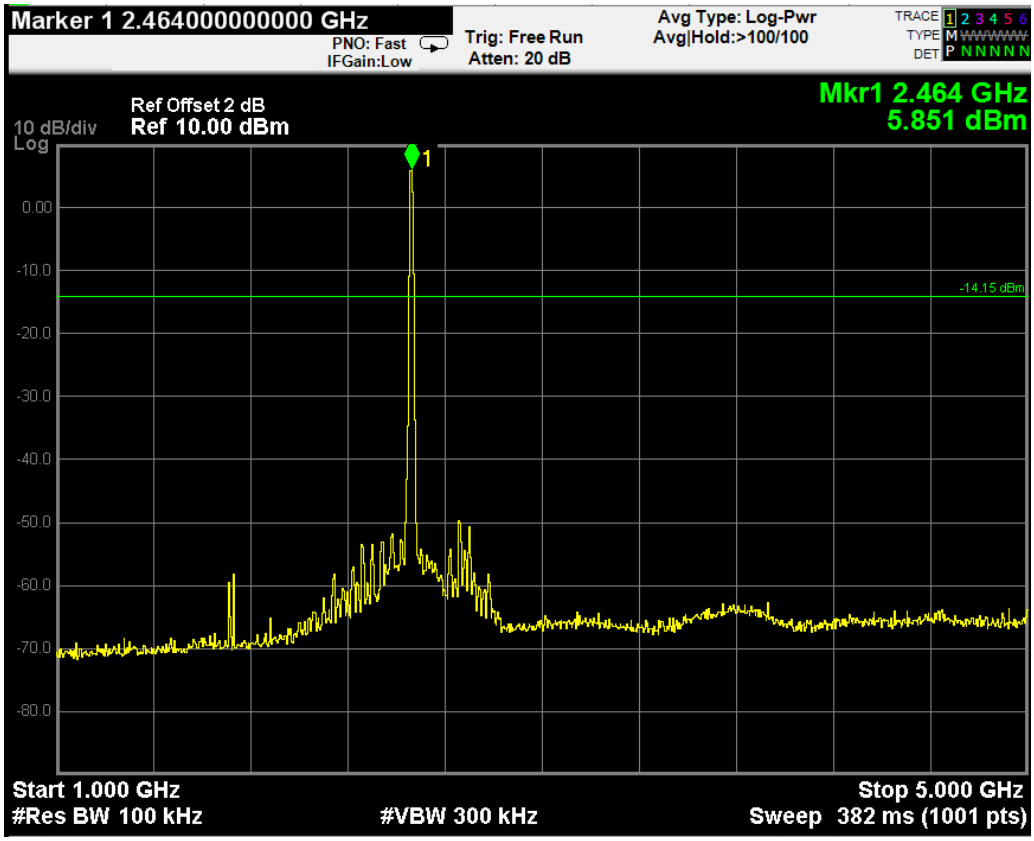

Marker 1 9.695000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 9.695 GHz
-73.745 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-13.70 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

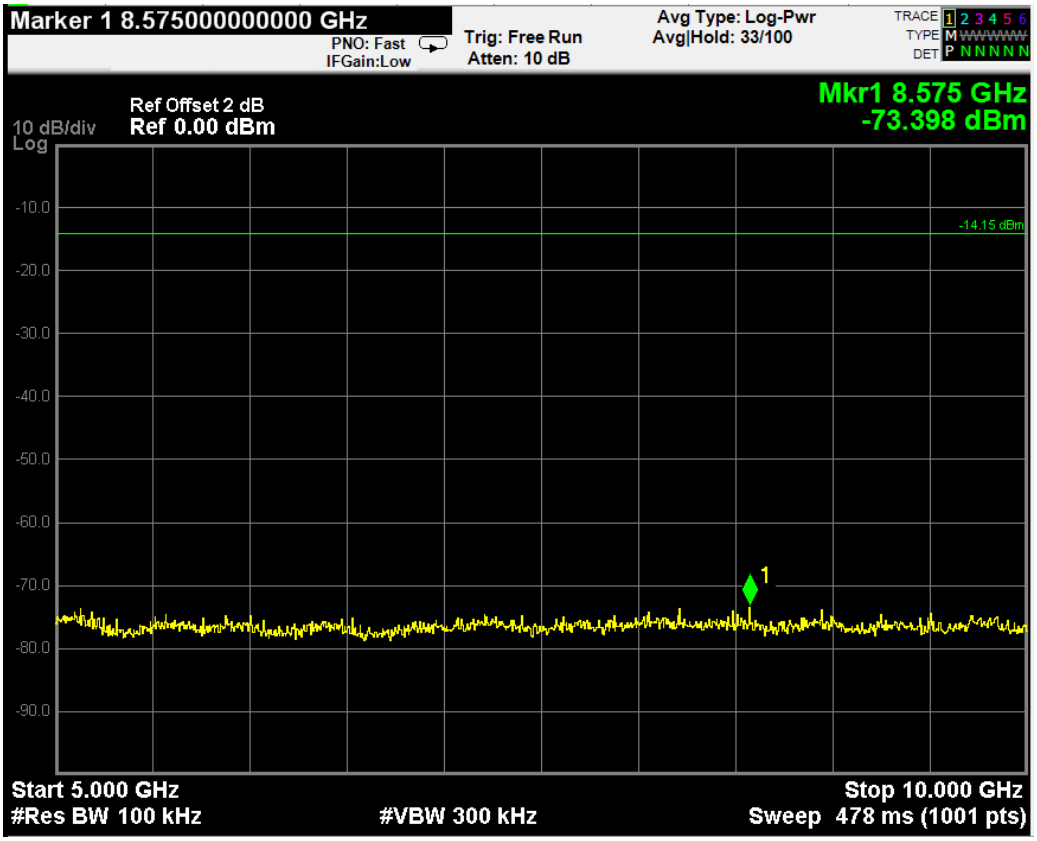

Marker 1 13.600000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 25/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 13.600 GHz
-73.841 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-13.70 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

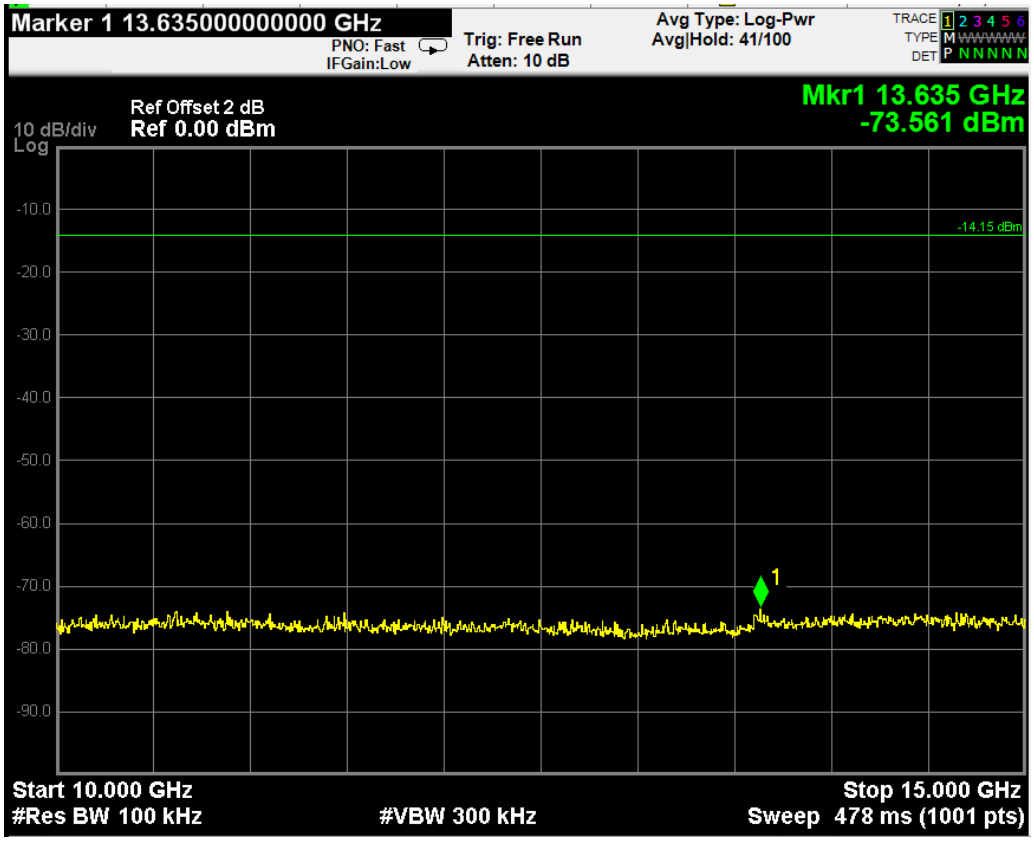

Marker 1 23.810000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 17/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.81 GHz
-70.317 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-13.70 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

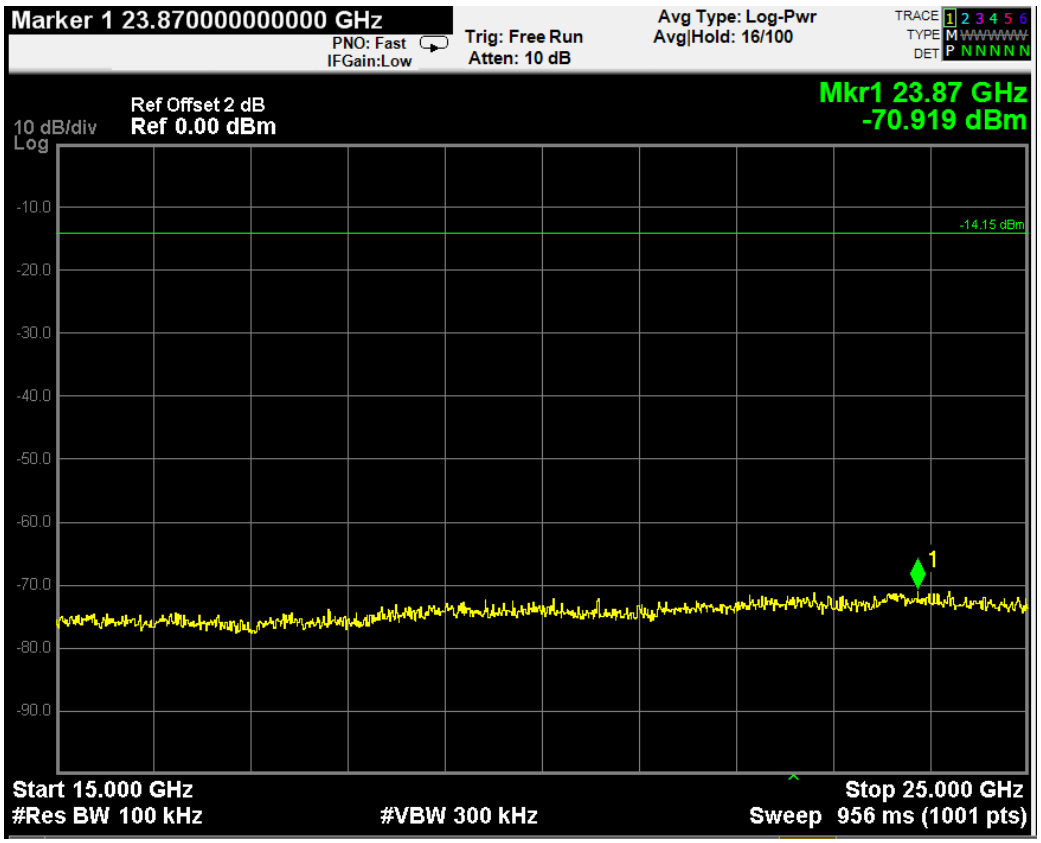
802.11b Ch 11 (2462 MHz) ANT1



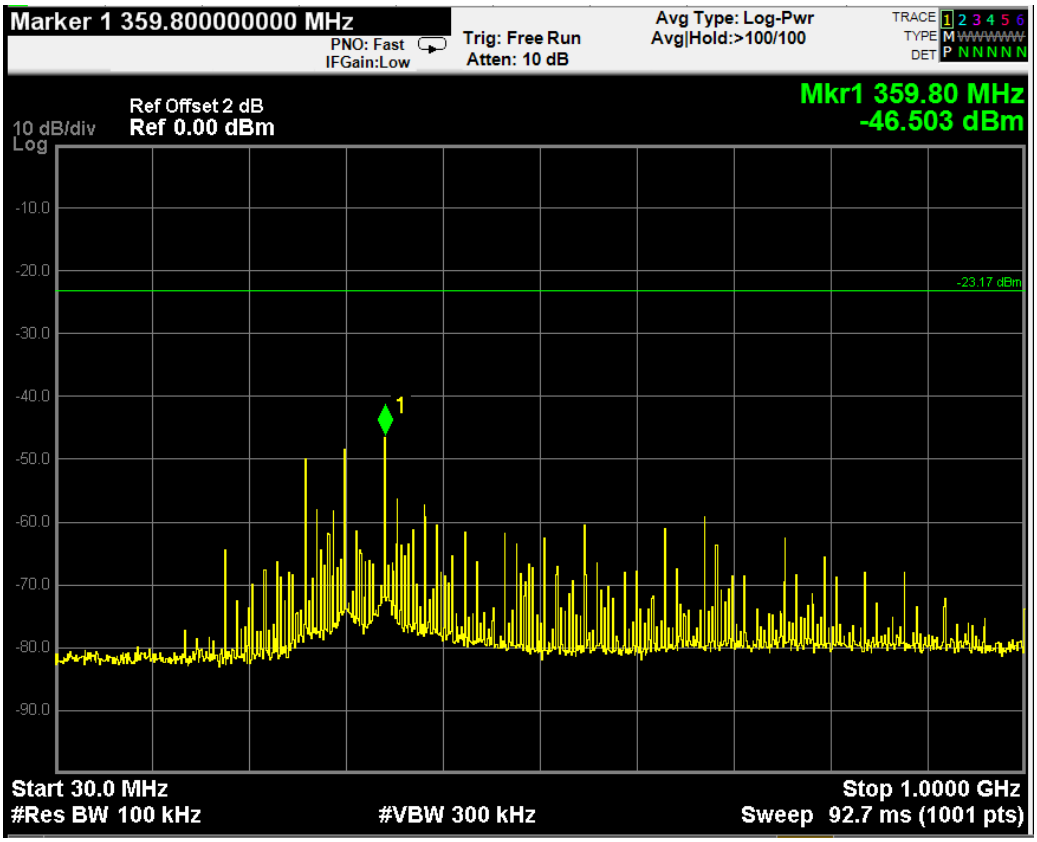


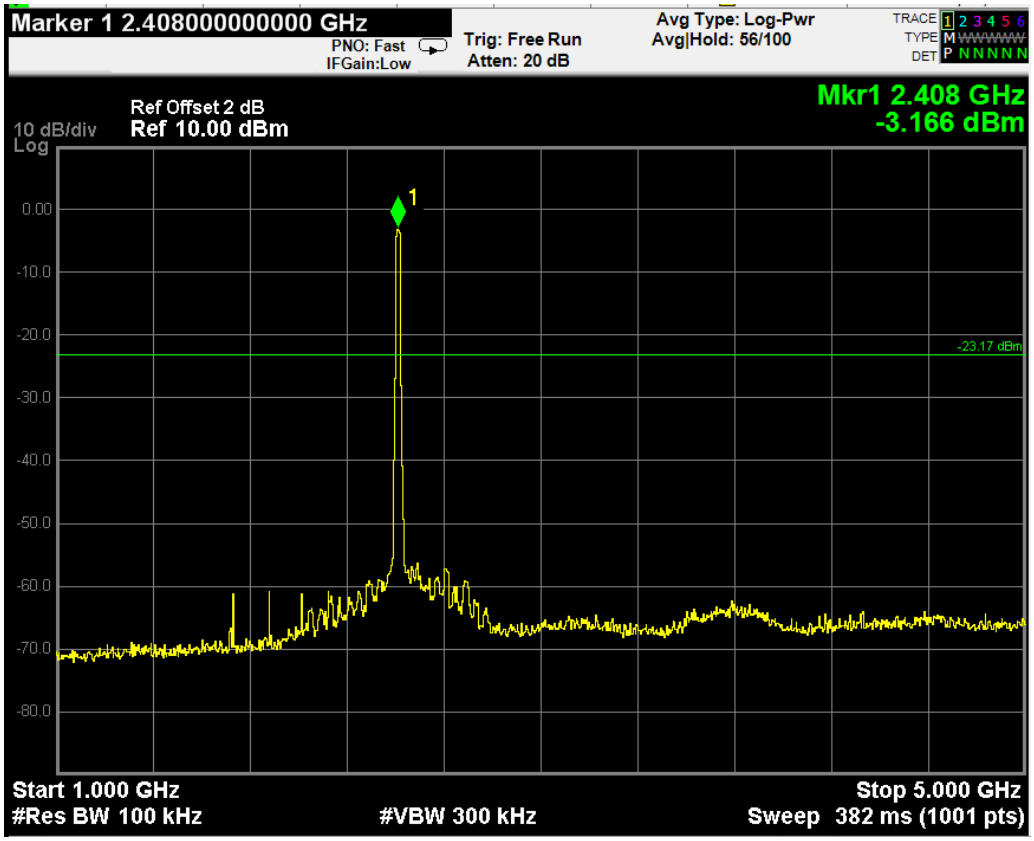

Marker 1 8.575000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.575 GHz
-73.398 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.15 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

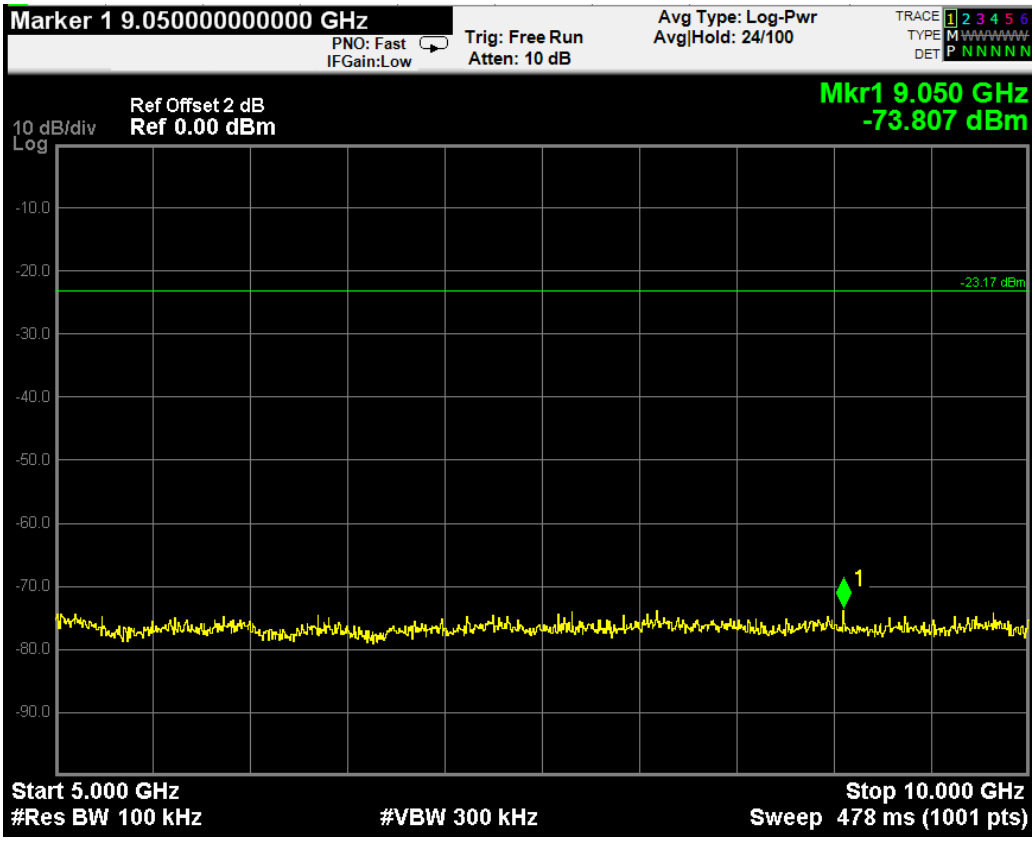

Marker 1 13.635000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 41/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 13.635 GHz
-73.561 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.15 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

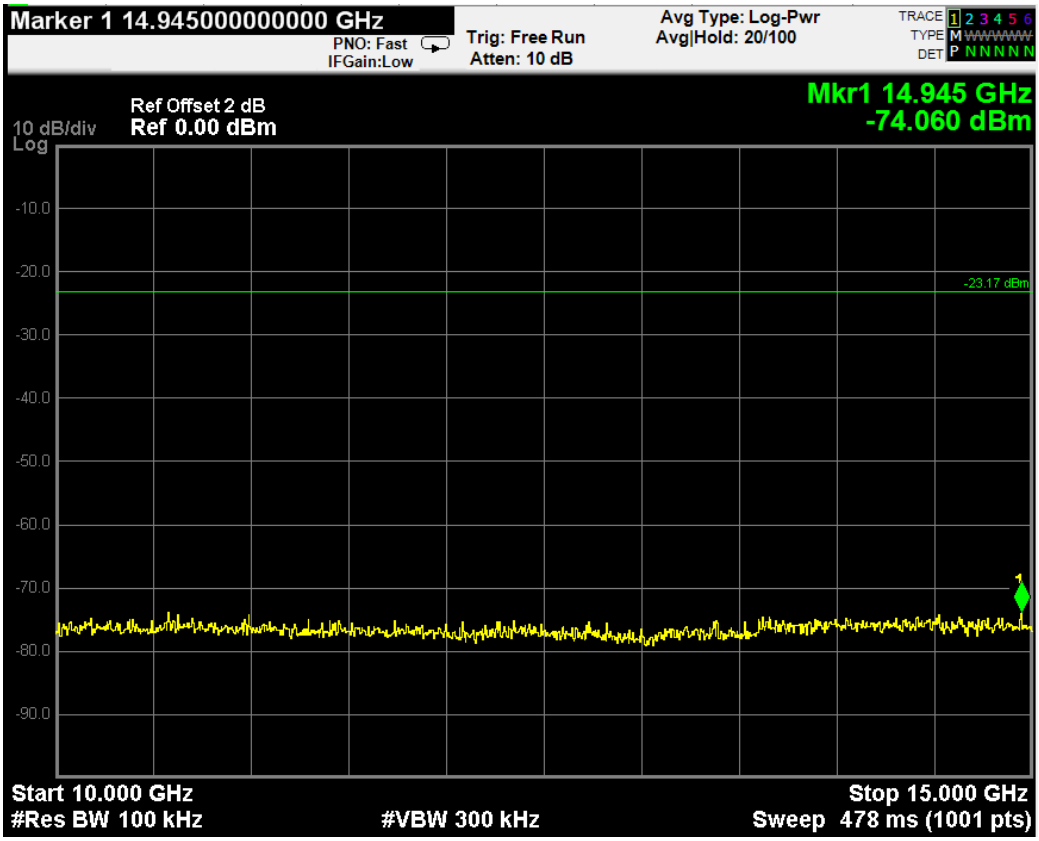

Marker 1 23.870000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 16/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.87 GHz
-70.919 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-14.15 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

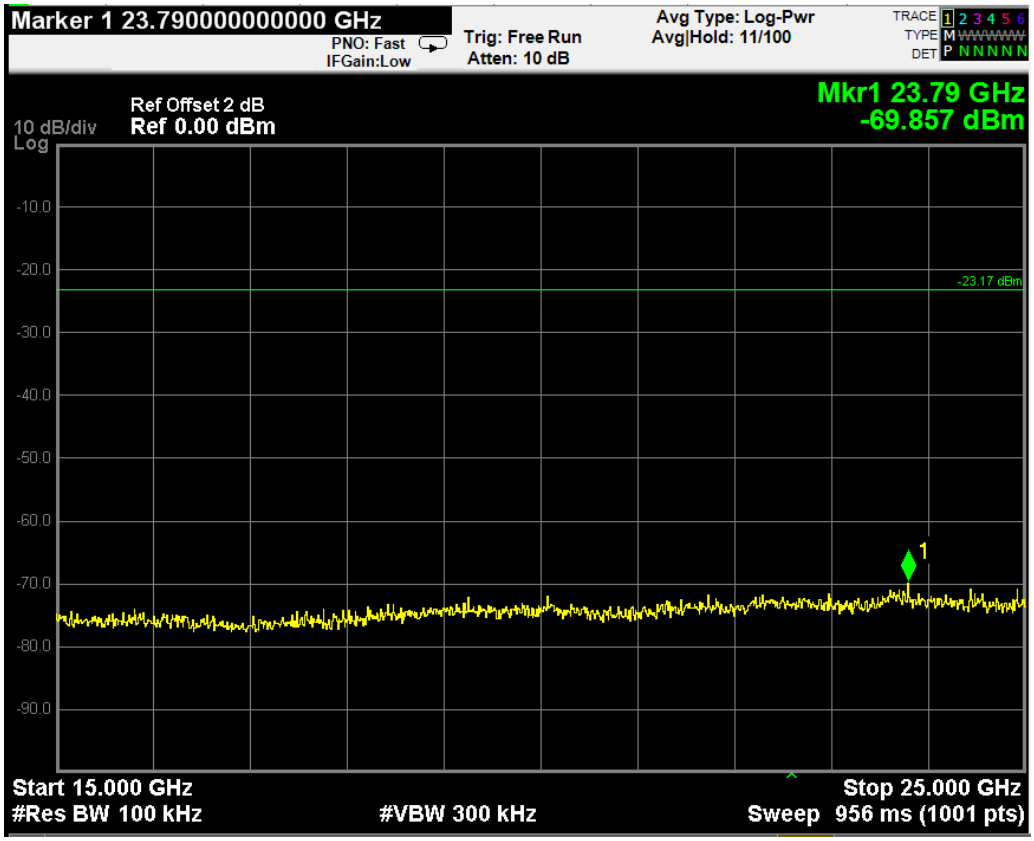
802.11g Ch 01 (2412 MHz) ANT1



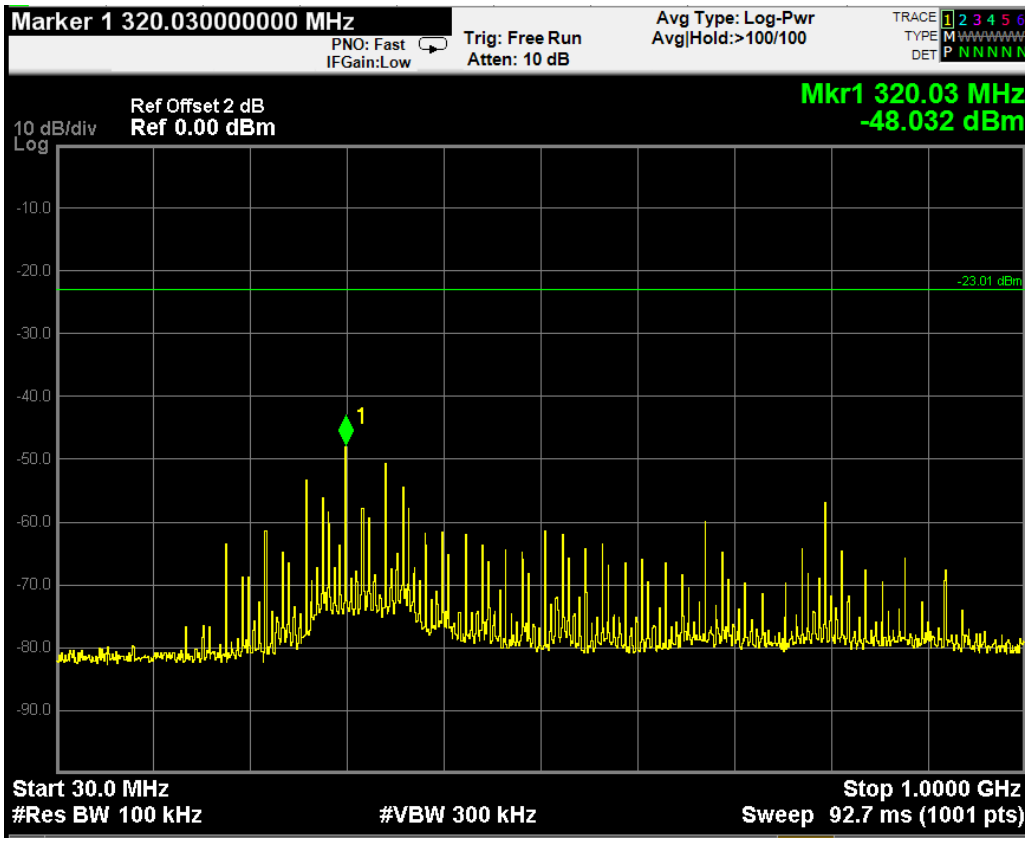


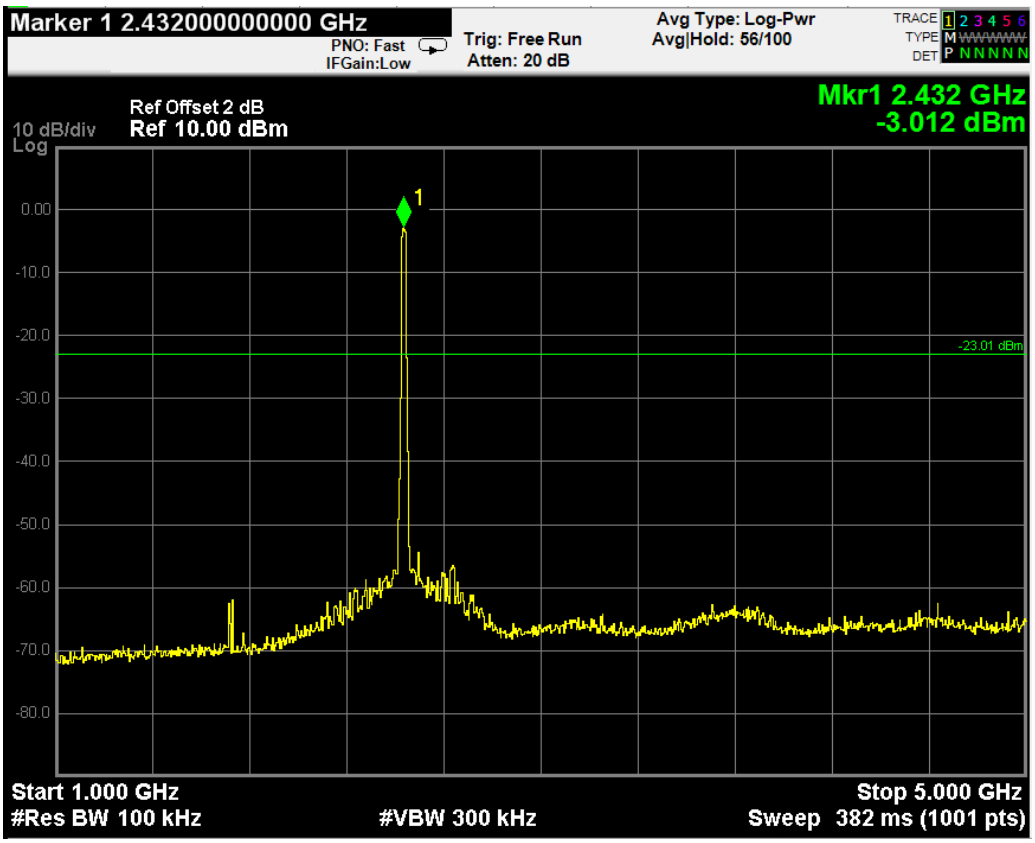

Marker 1 9.050000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 24/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 9.050 GHz
-73.807 dBm
-10.0
-20.0
-23.17 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

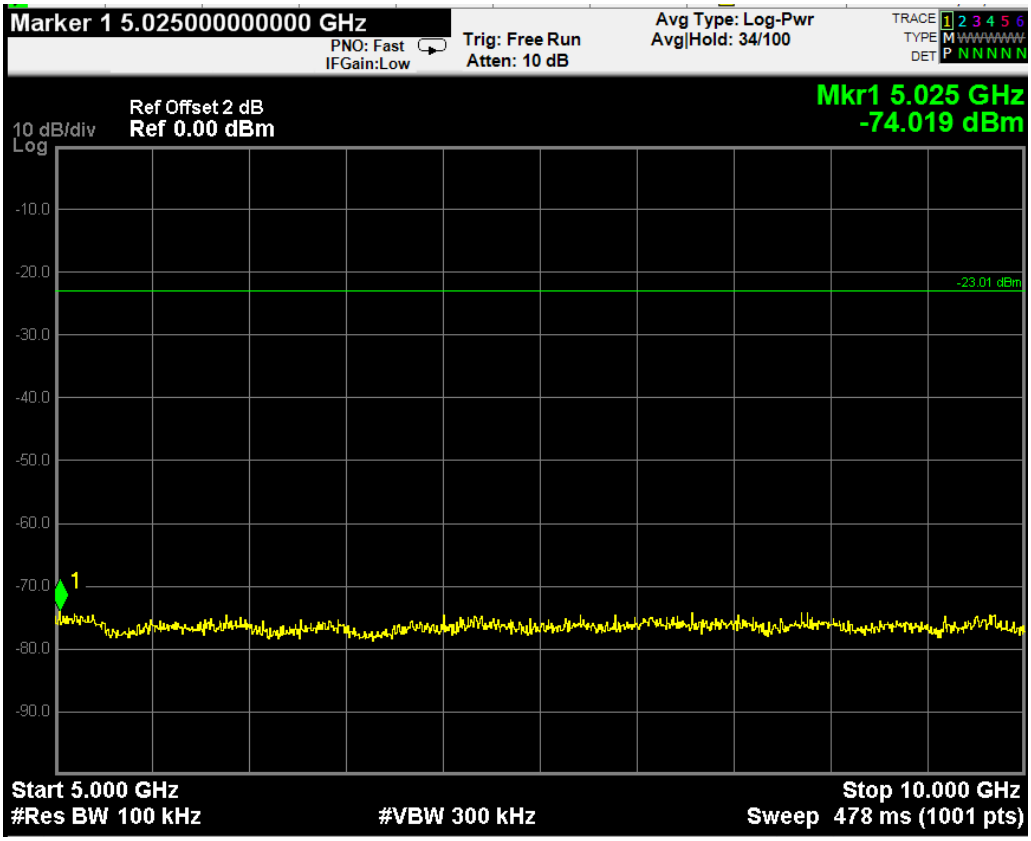

Marker 1 14.945000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 20/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.945 GHz
-74.060 dBm
-10.0
-20.0
-23.17 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

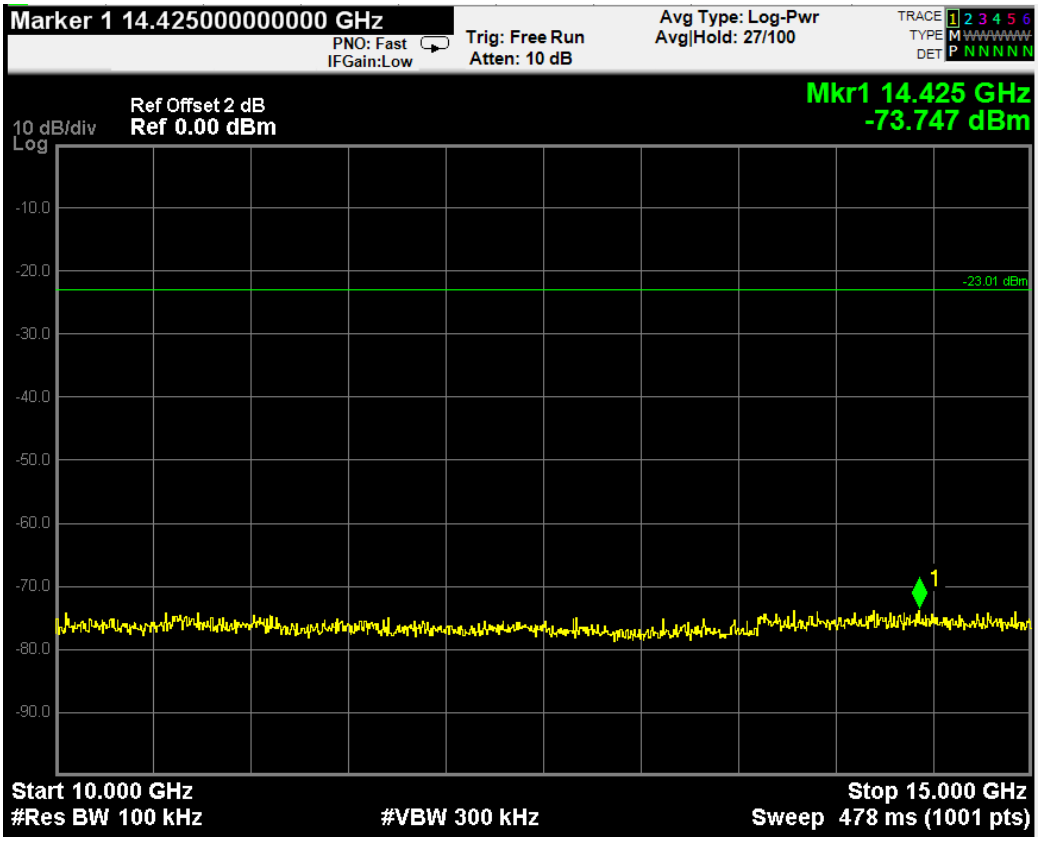

Marker 1 23.790000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.79 GHz
-69.857 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.17 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

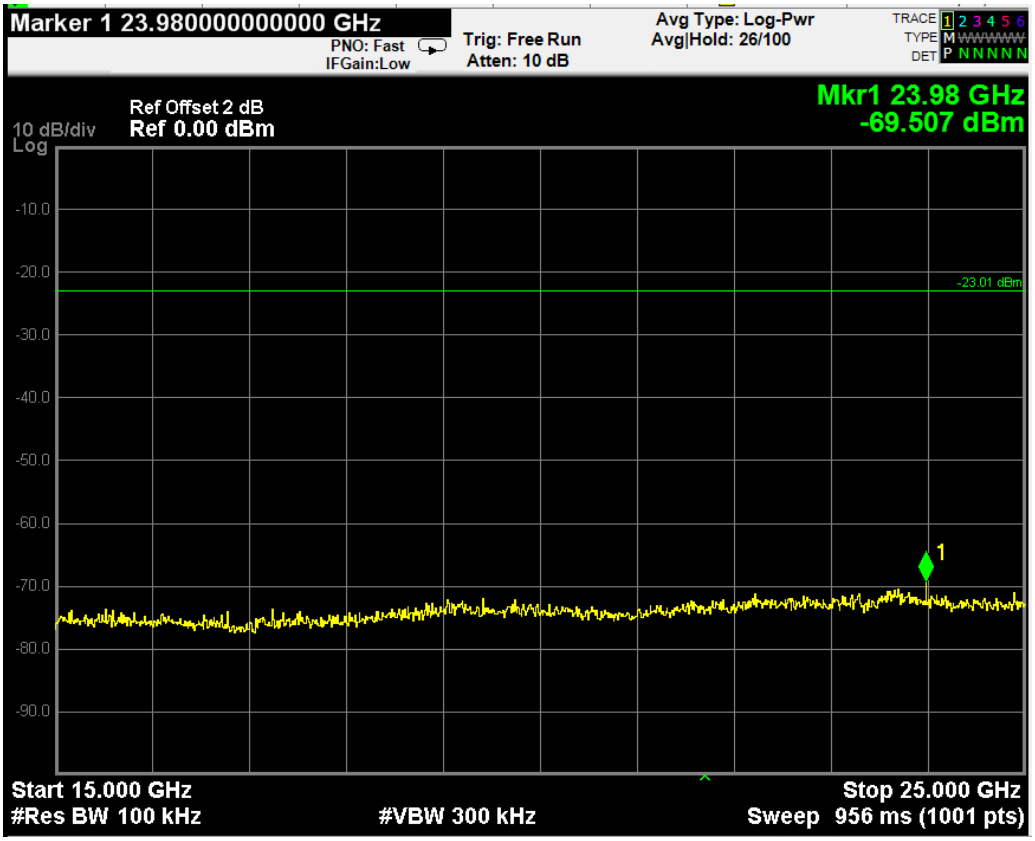
802.11g Ch 06 (2437 MHz) ANT1



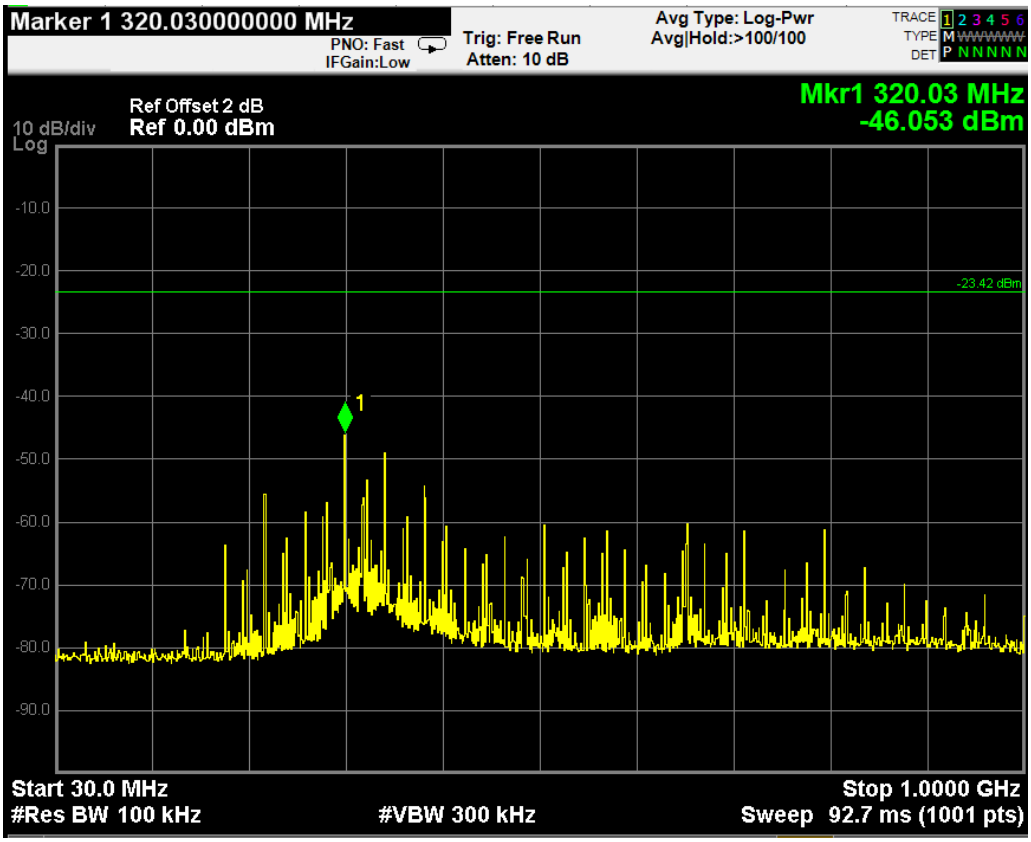


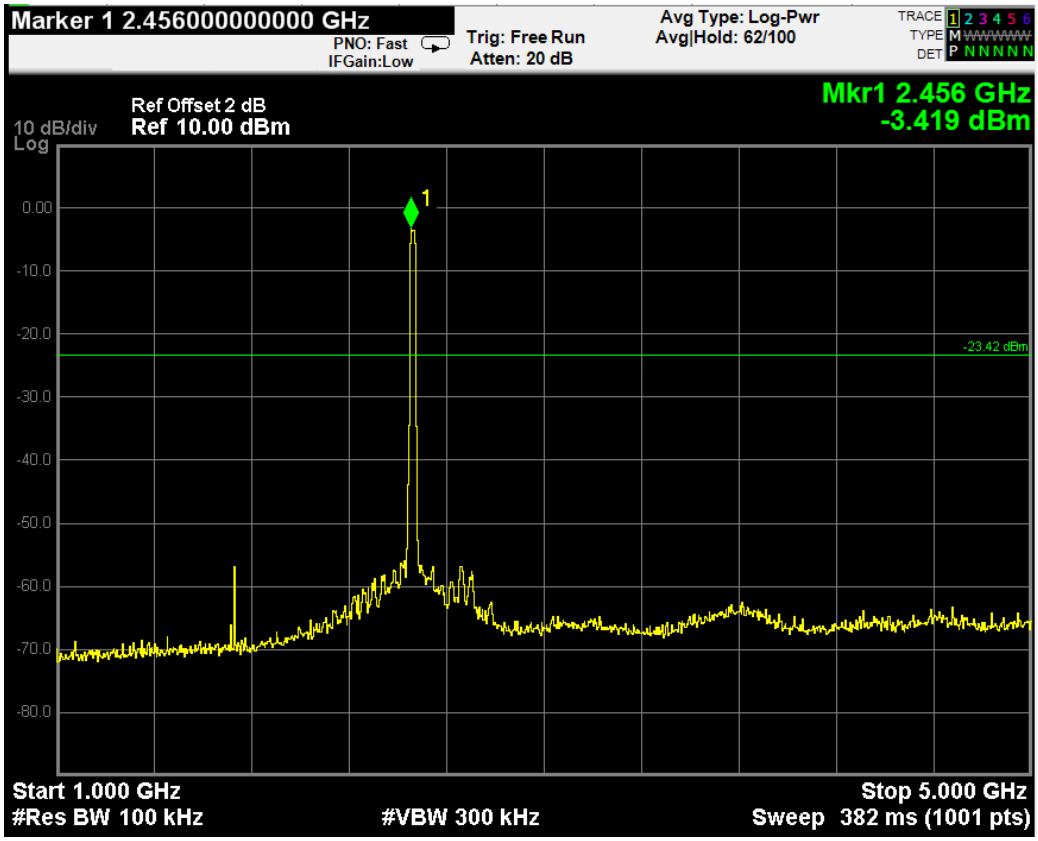

Marker 1 5.025000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.025 GHz
-74.019 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.01 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

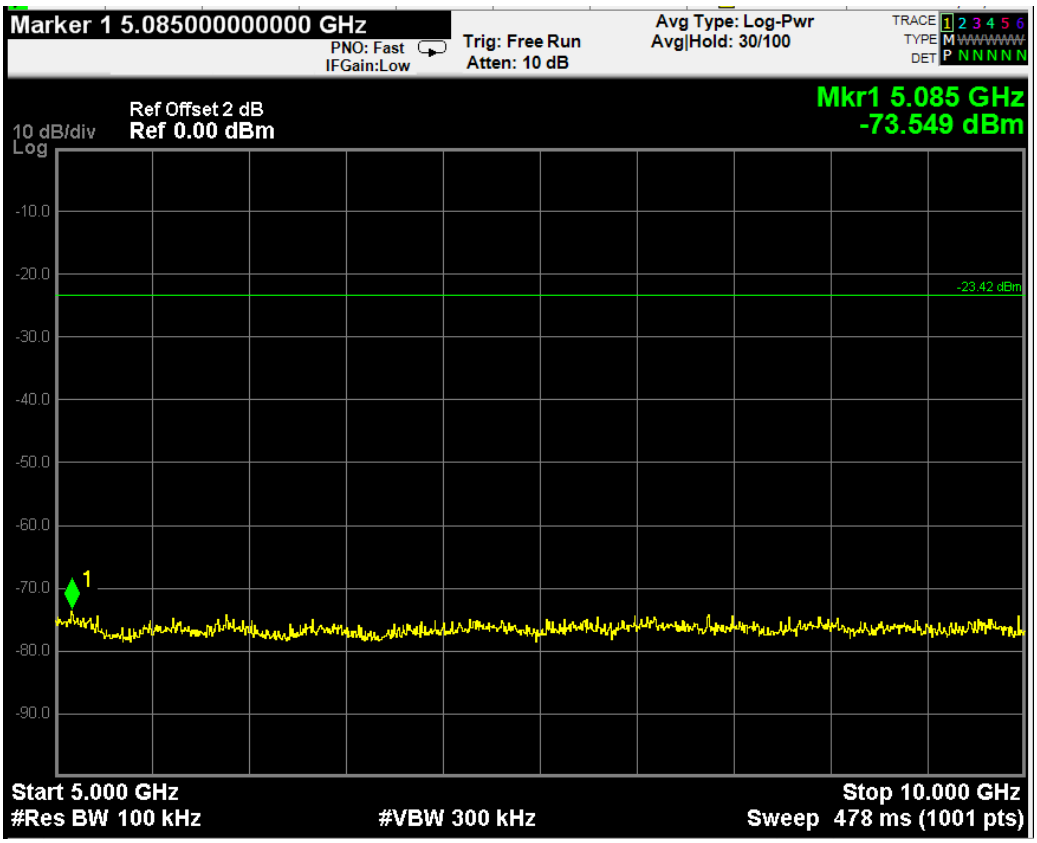

Marker 1 14.425000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 27/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.425 GHz
-73.747 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.01 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

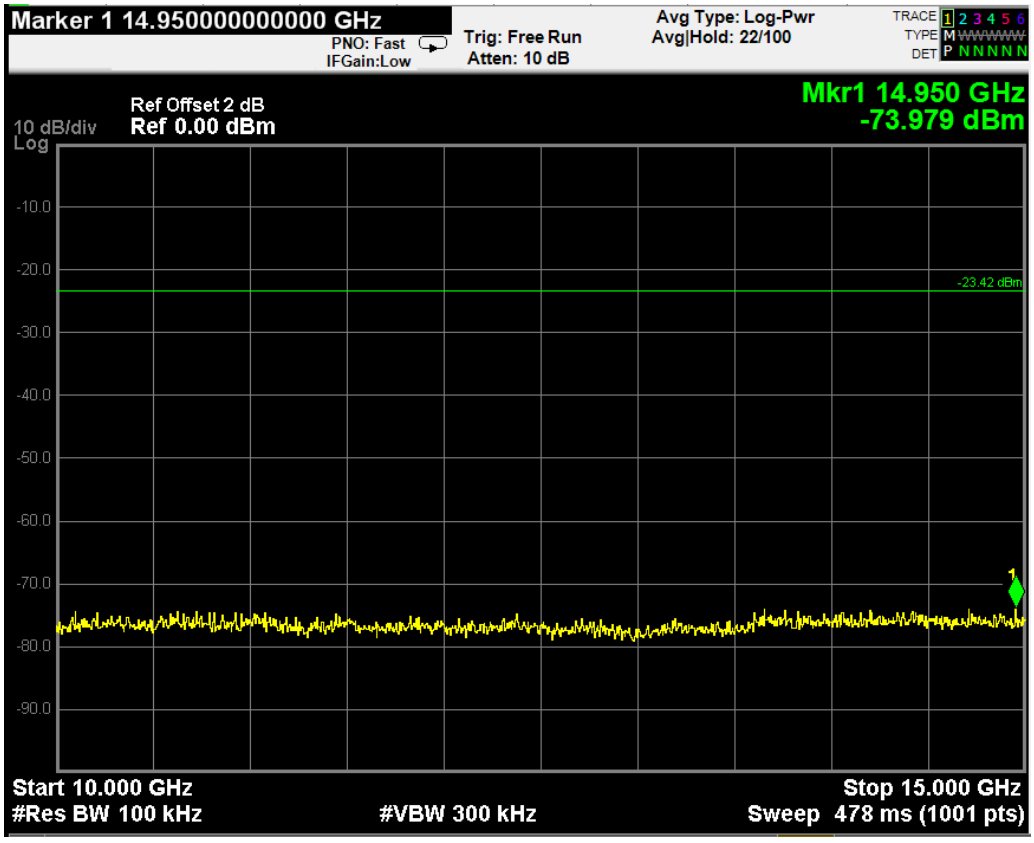

Marker 1 23.980000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 26/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.98 GHz
-69.507 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.01 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

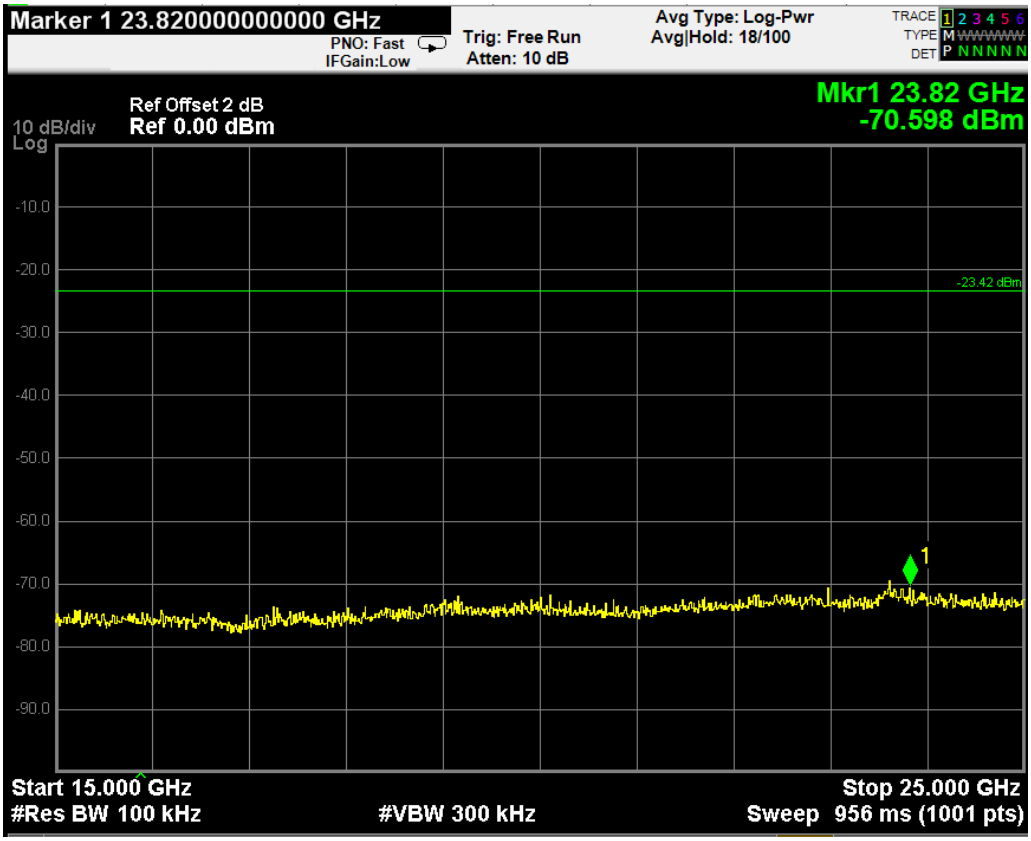
802.11g Ch 11 (2462 MHz) ANT1



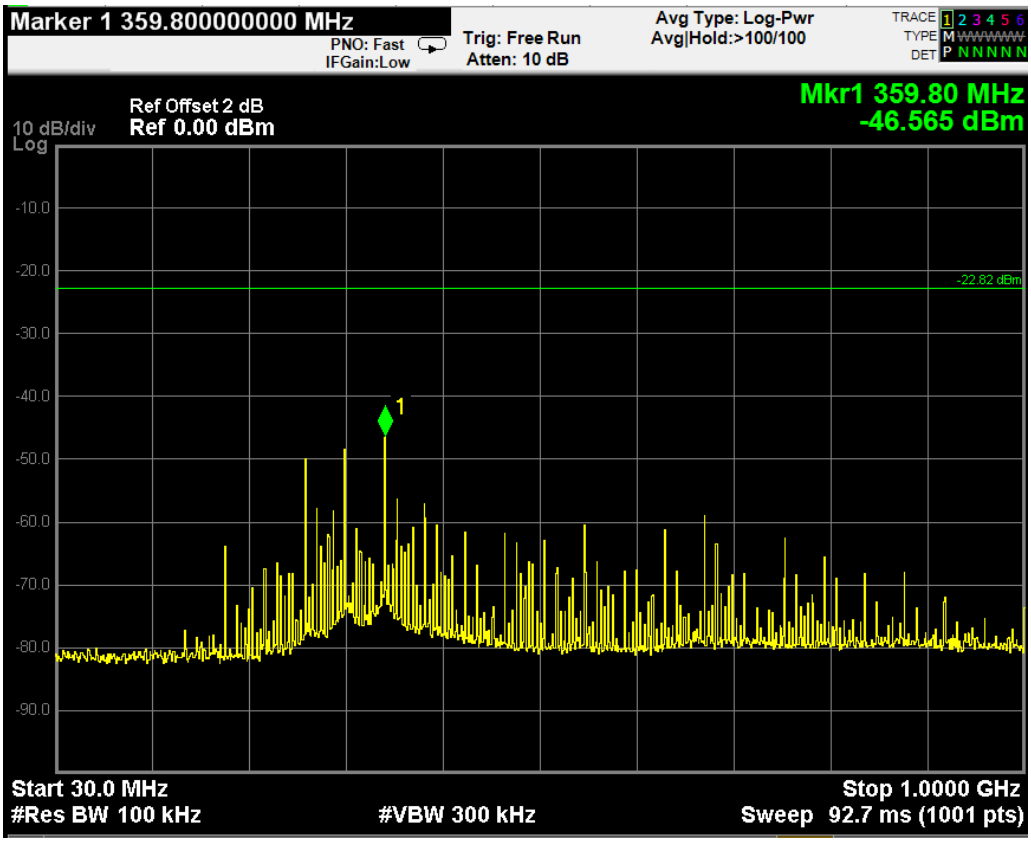


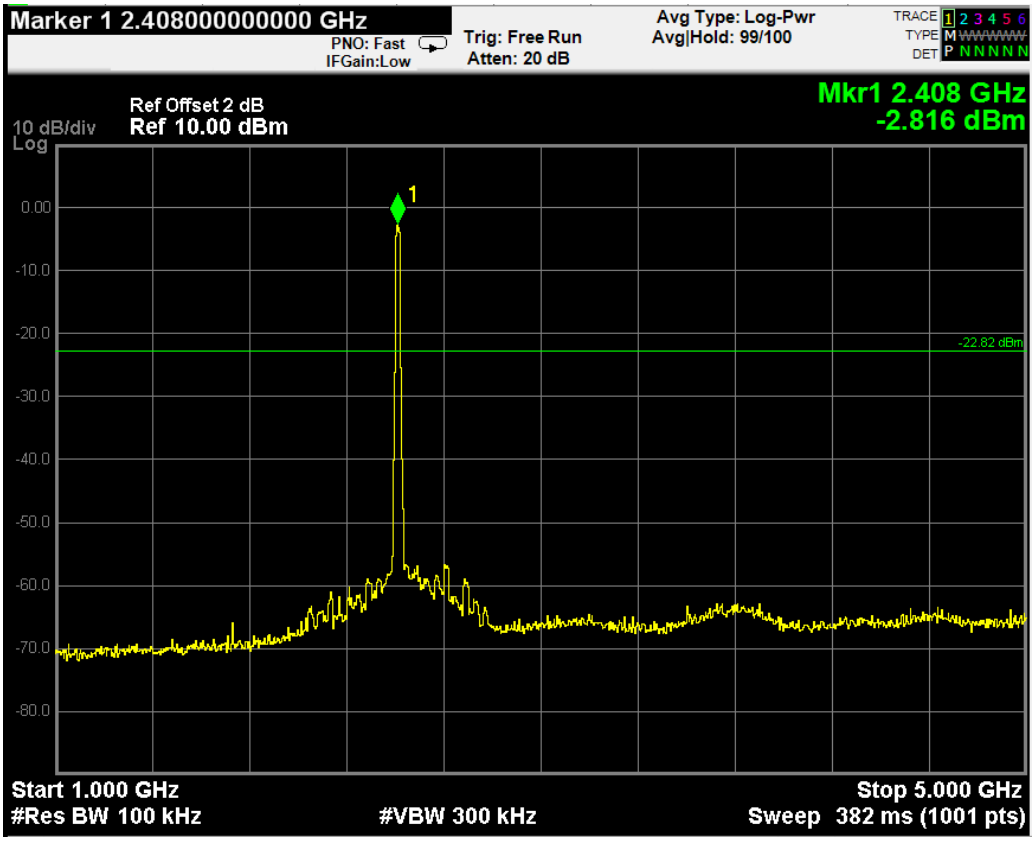

Marker 1 5.085000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 30/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.085 GHz
-73.549 dBm
-10.0
-20.0
-23.42 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

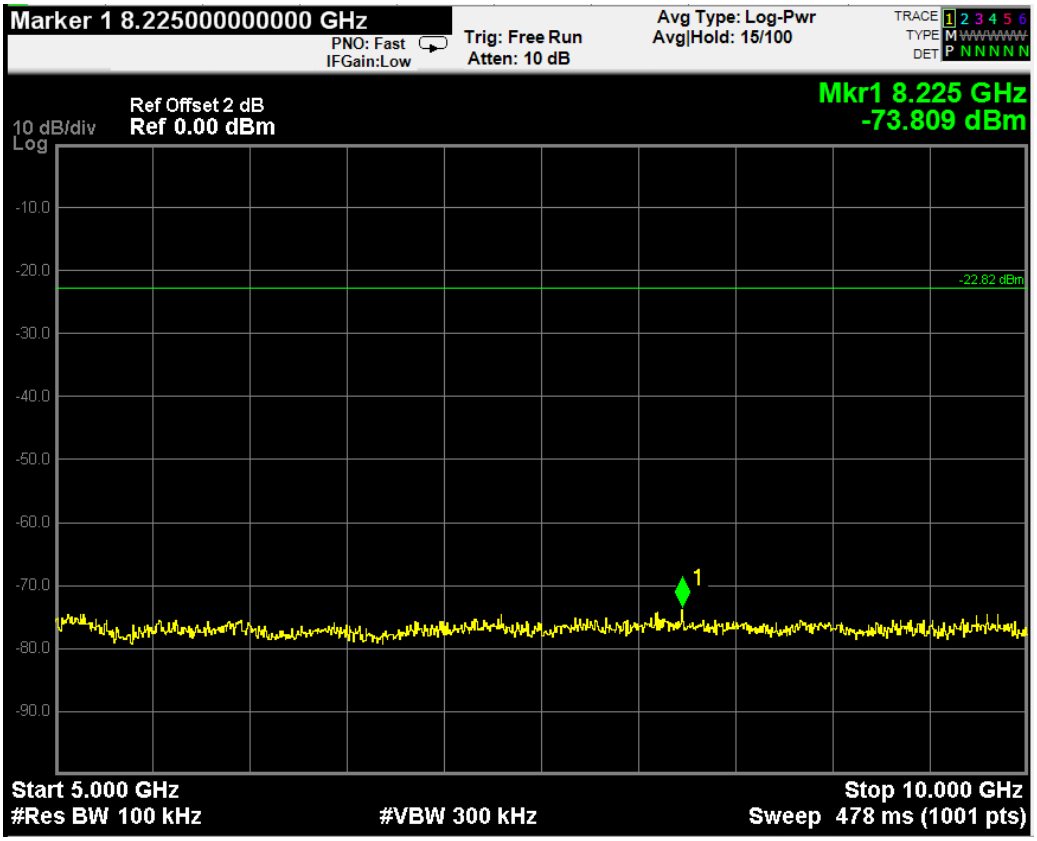

Marker 1 14.950000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.950 GHz
-73.979 dBm
-10.0
-20.0
-23.42 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

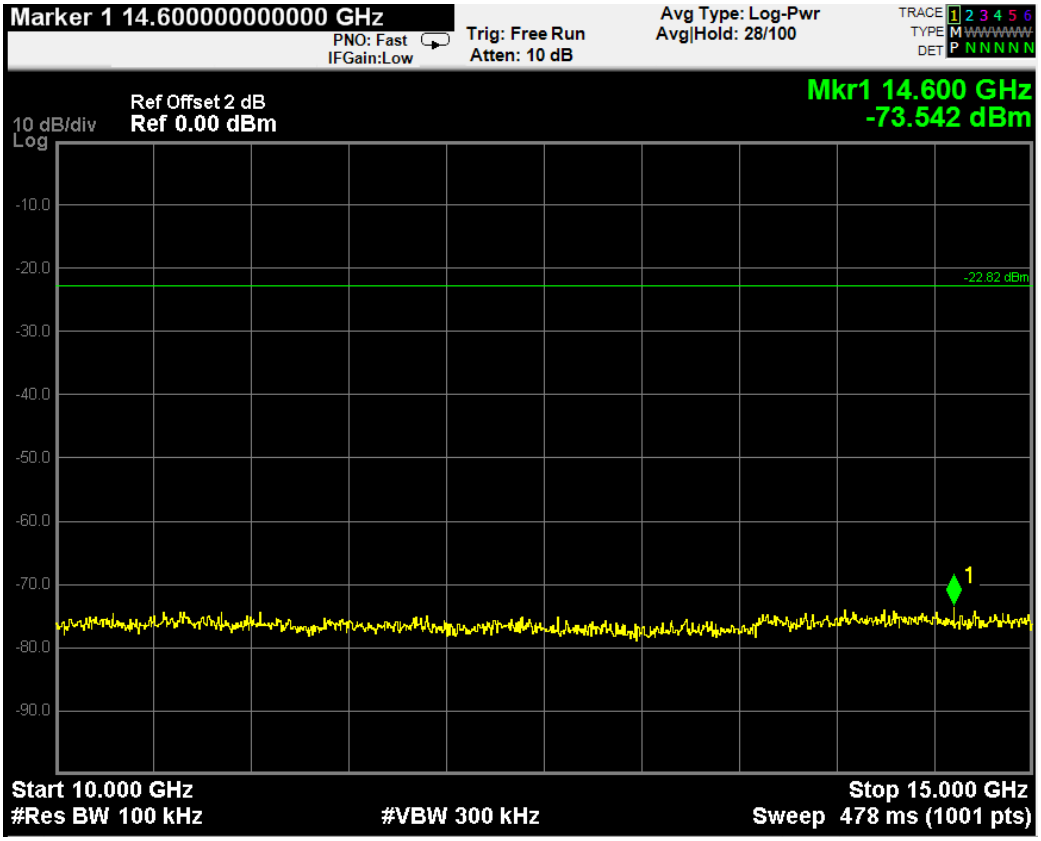

Marker 1 23.820000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 18/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.82 GHz
-70.598 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.42 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

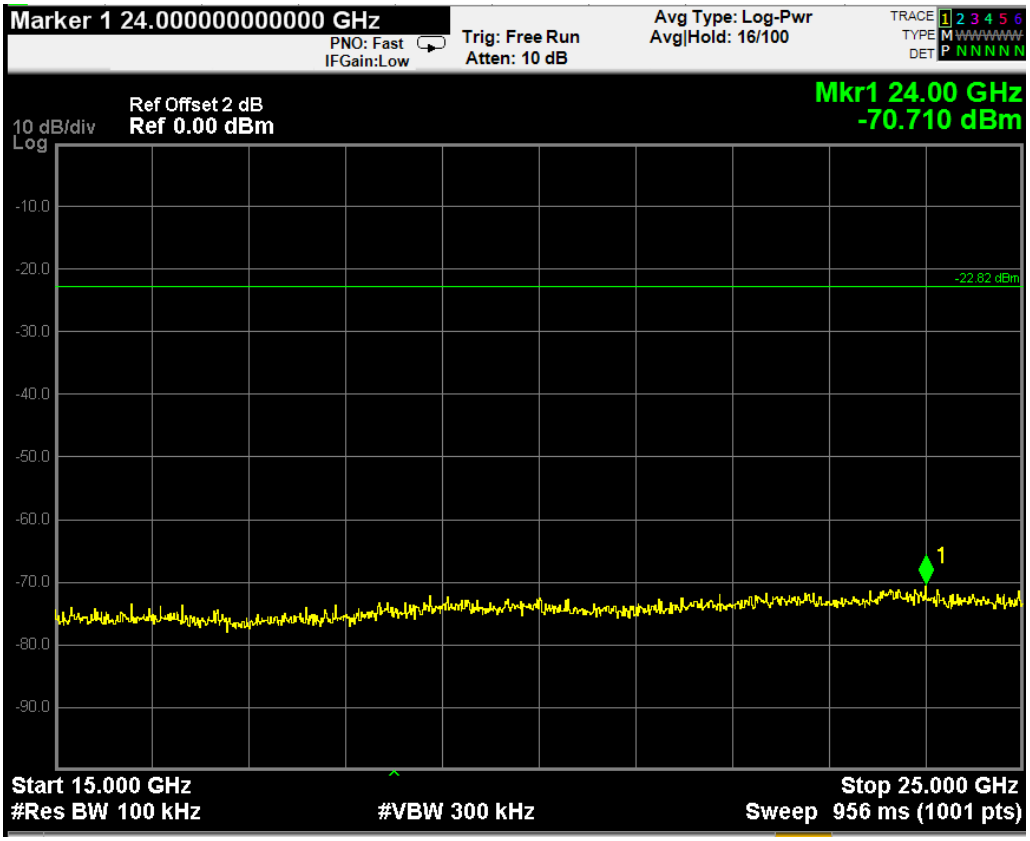
802.11n HT20 Ch 01 (2412 MHz) ANT1



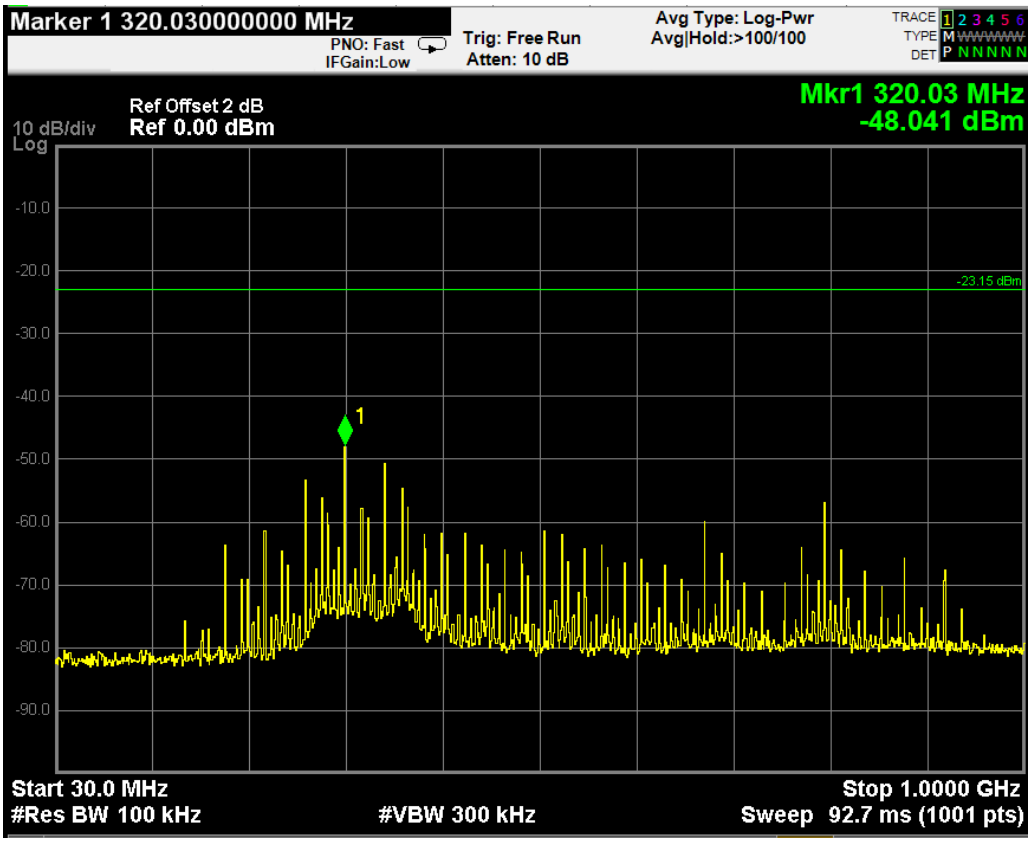


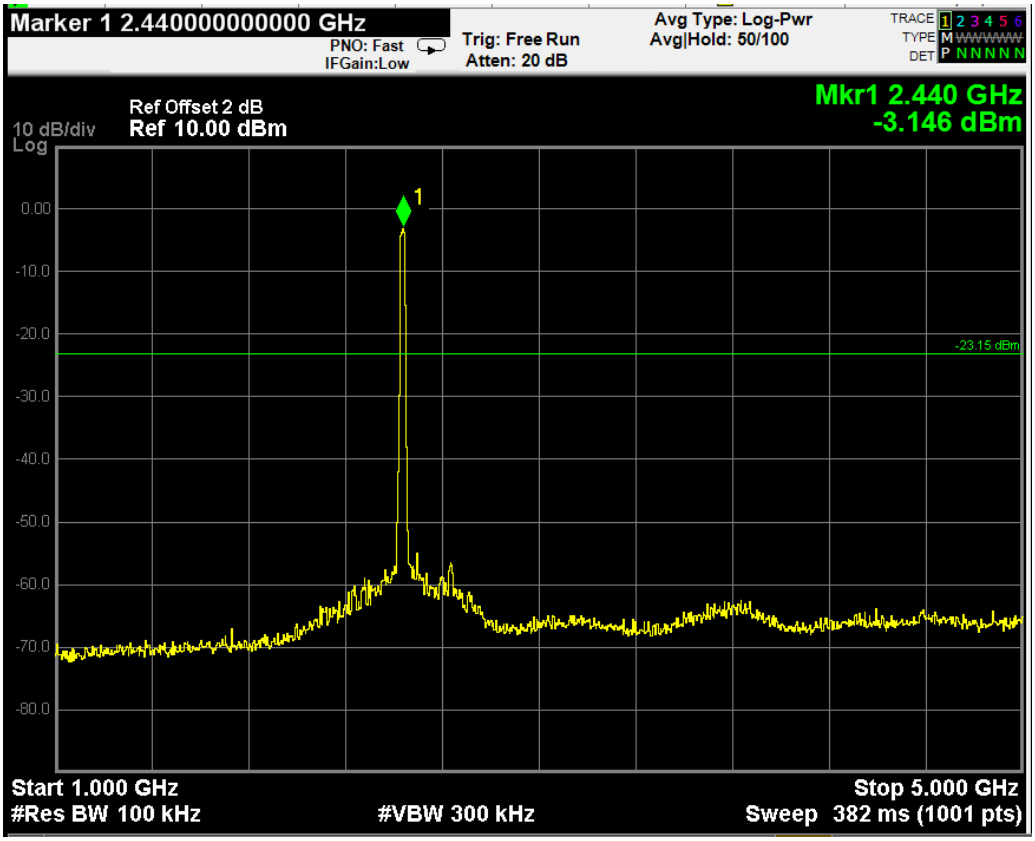

Marker 1 8.225000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 15/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 8.225 GHz
-73.809 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-22.82 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

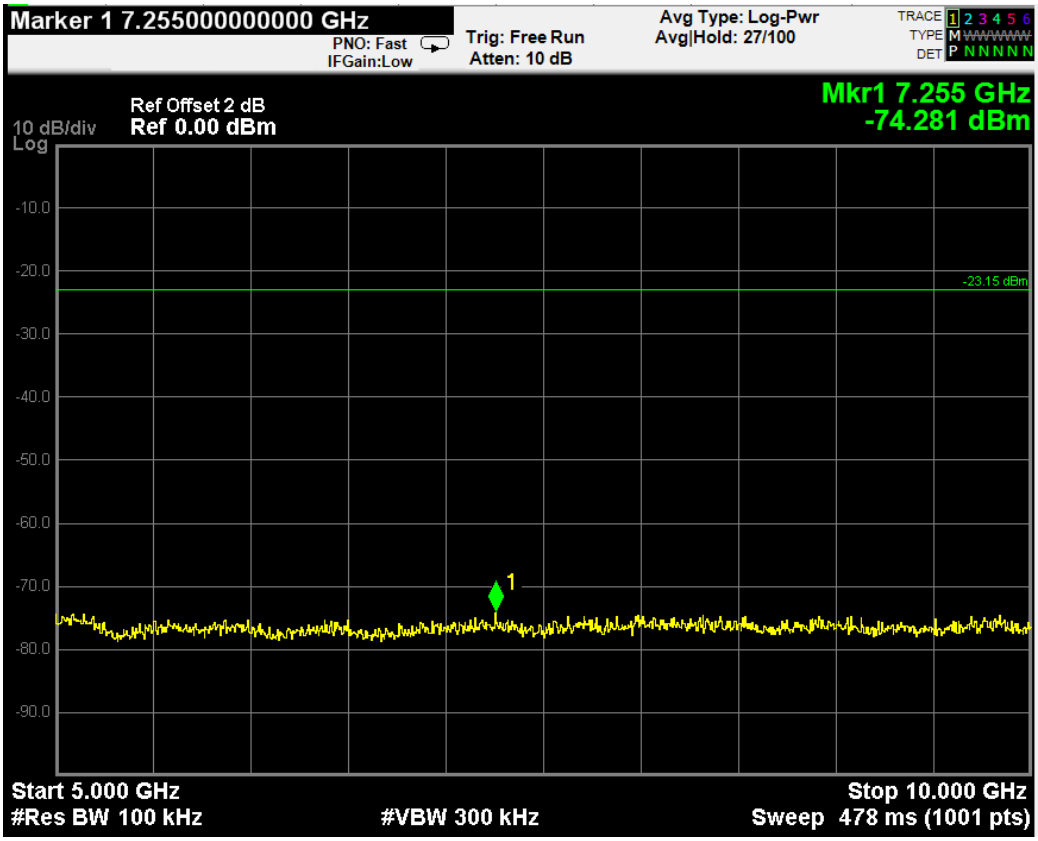

Marker 1 14.600000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 28/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.600 GHz
-73.542 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-22.82 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

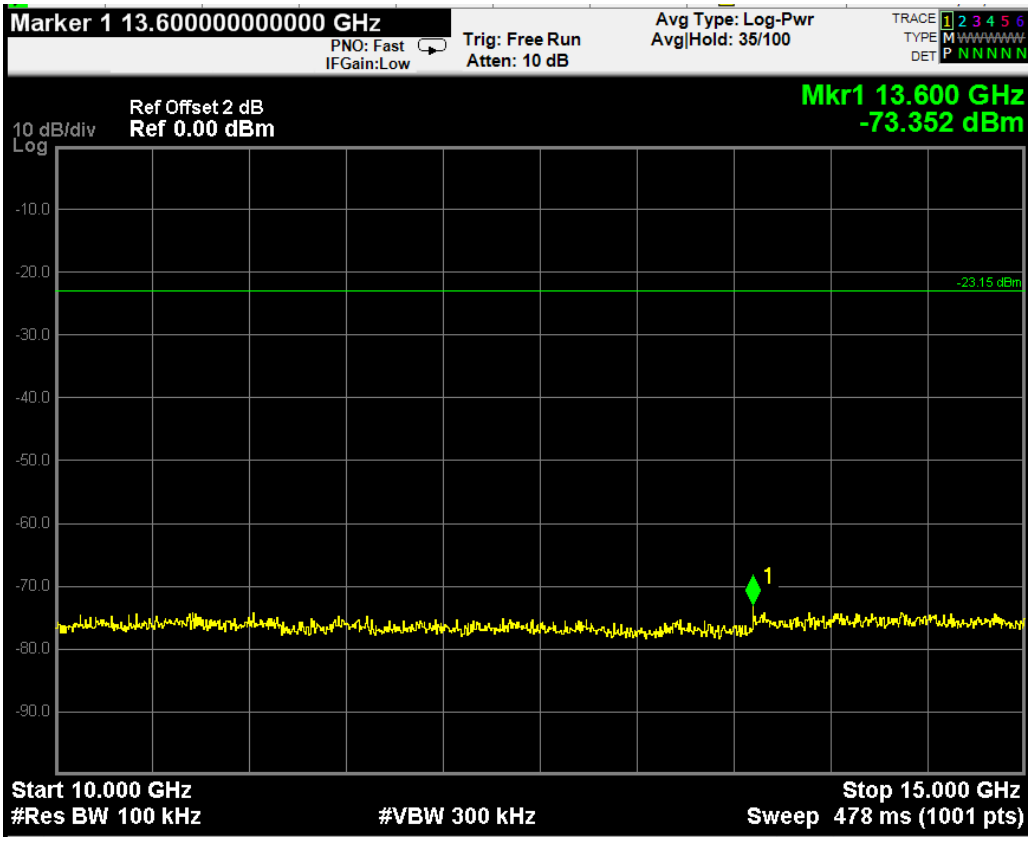

Marker 1 24.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 16/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 24.00 GHz
-70.710 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-22.82 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

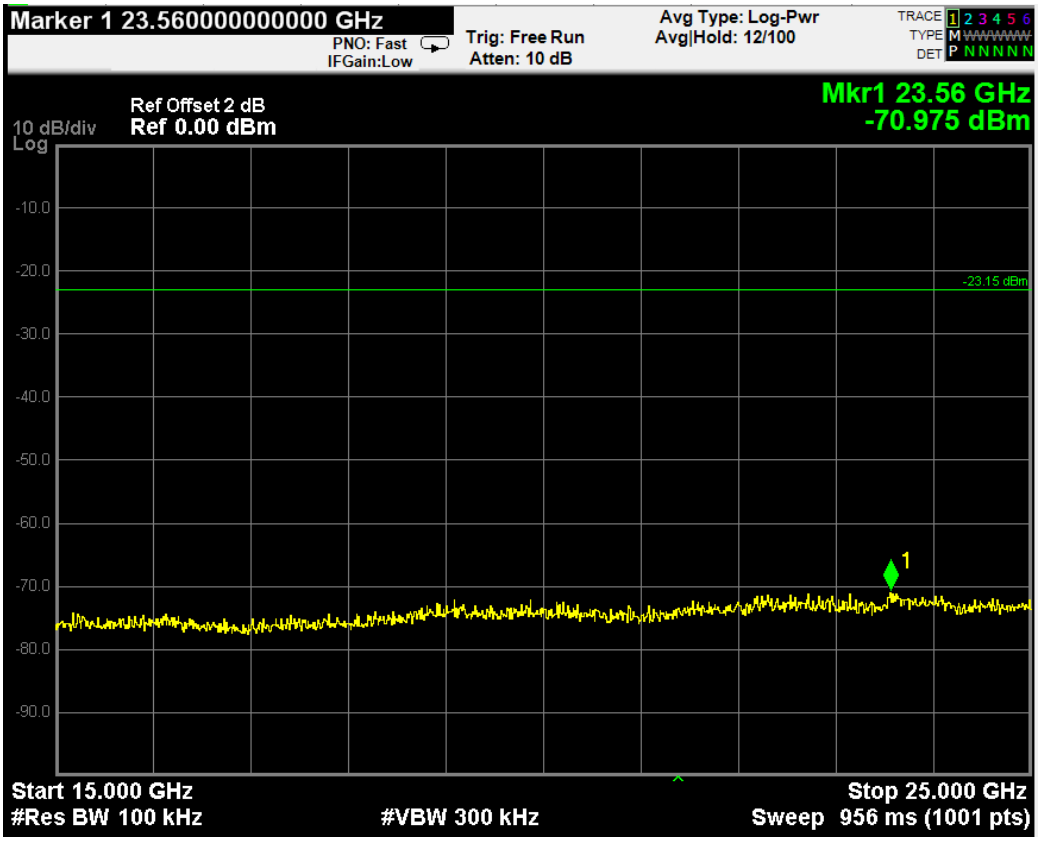
802.11n HT20 Ch 06 (2437 MHz) ANT1



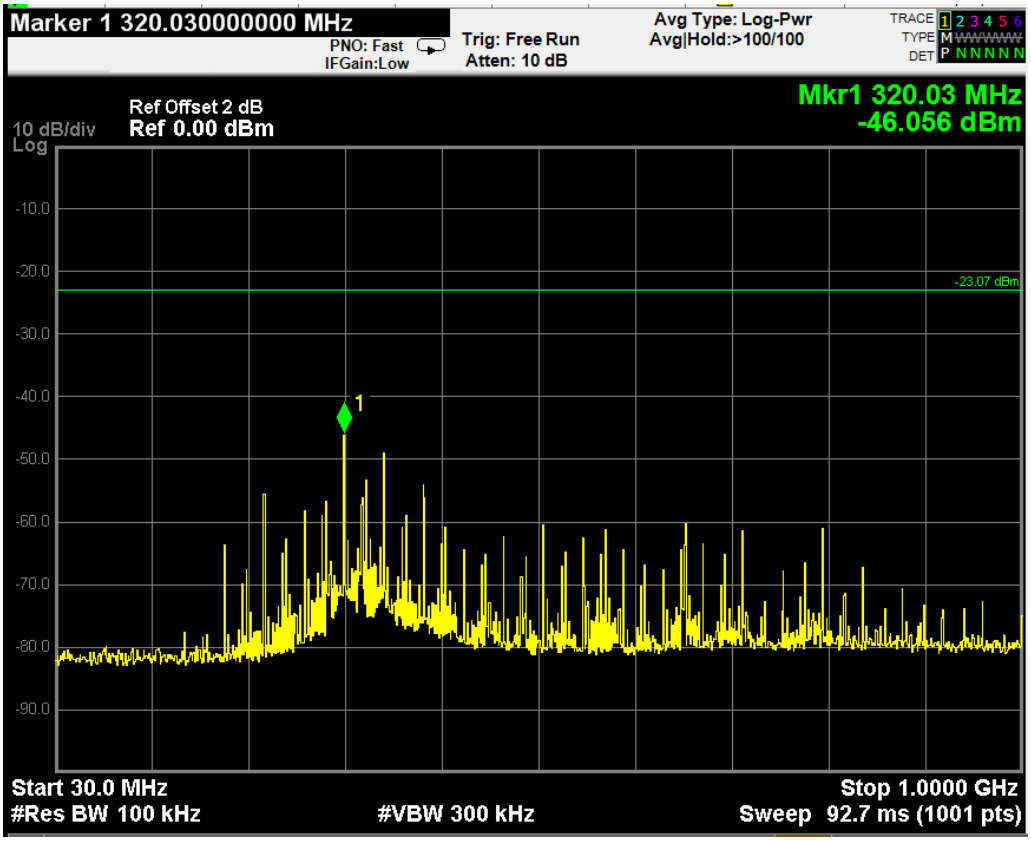


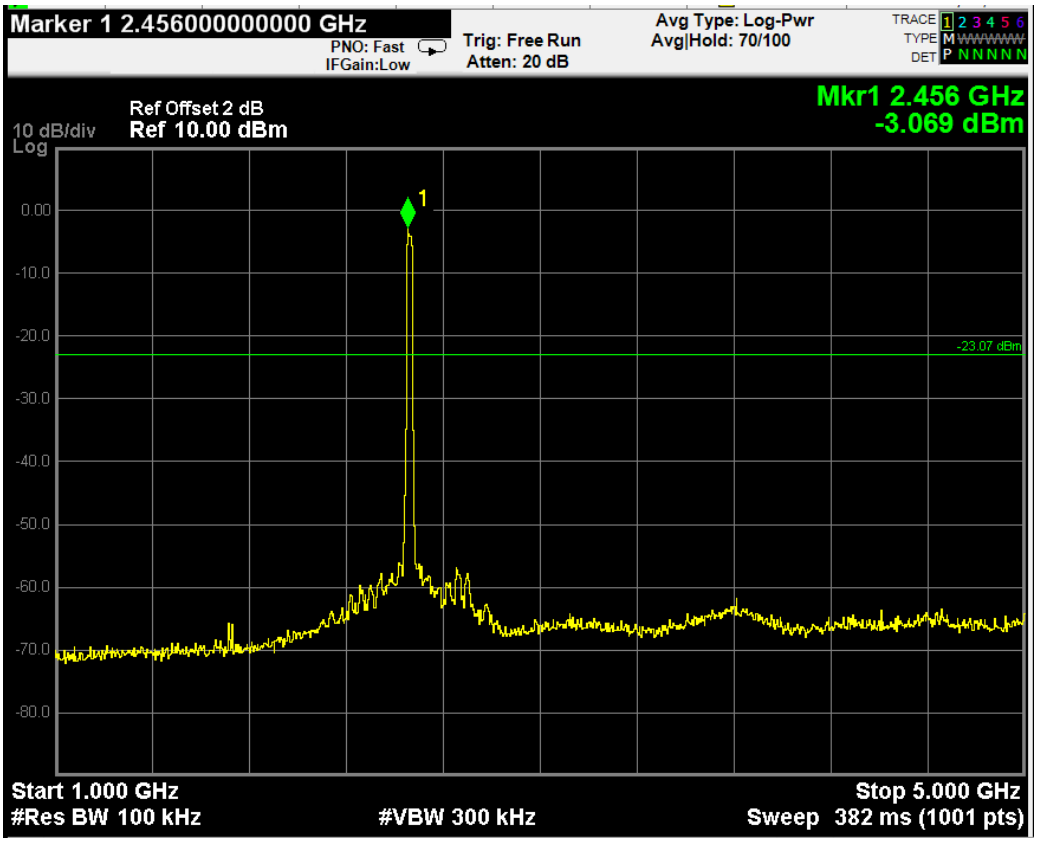

Marker 1 7.255000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 27/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 7.255 GHz
-74.281 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.15 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

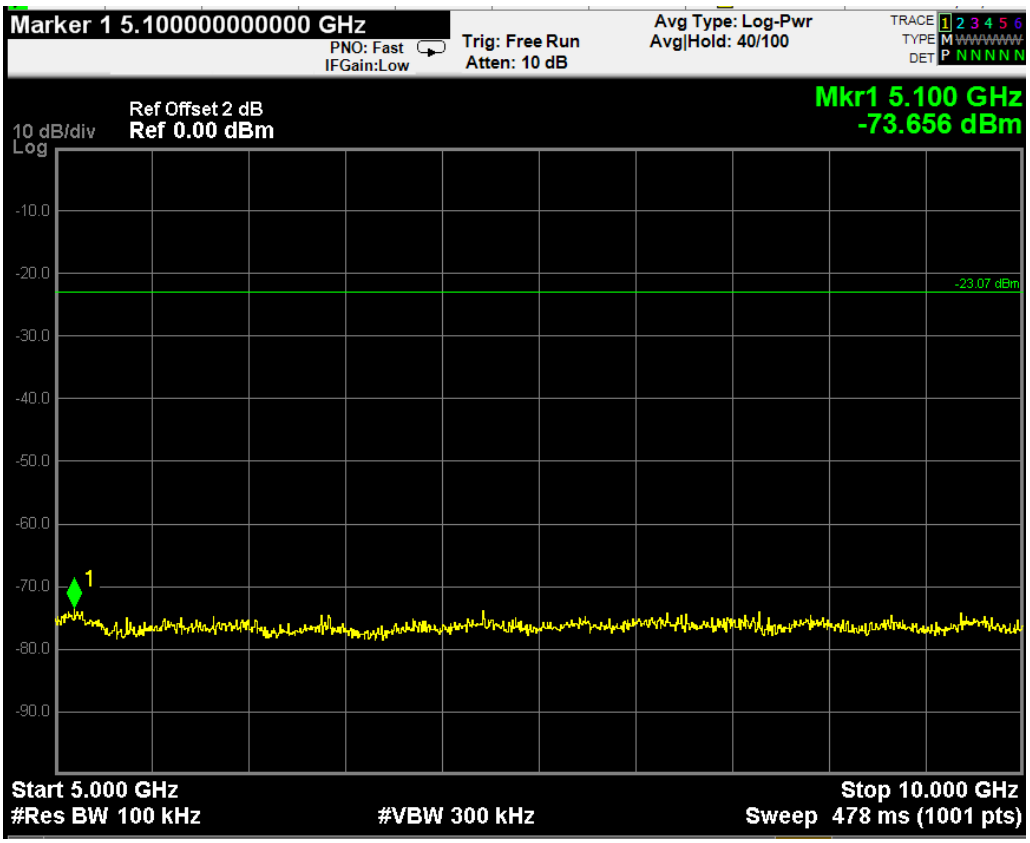

Marker 1 13.600000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 35/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 13.600 GHz
-73.352 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.15 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

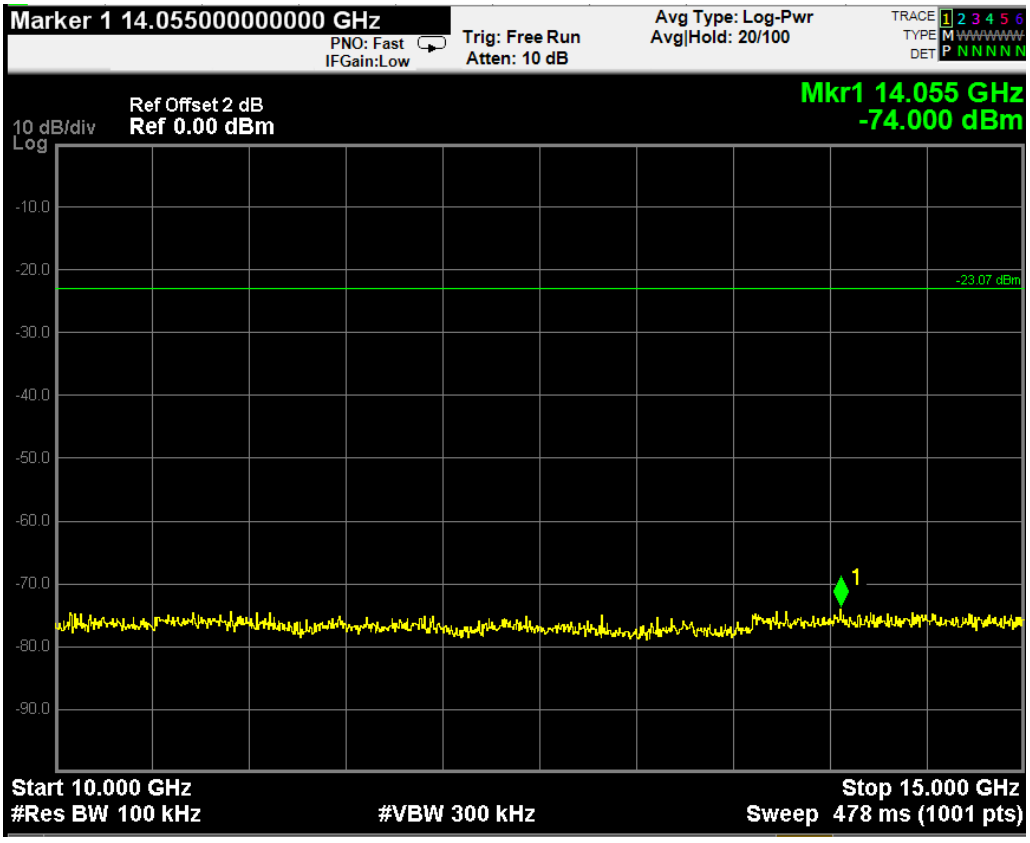

Marker 1 23.560000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 12/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.56 GHz
-70.975 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.15 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

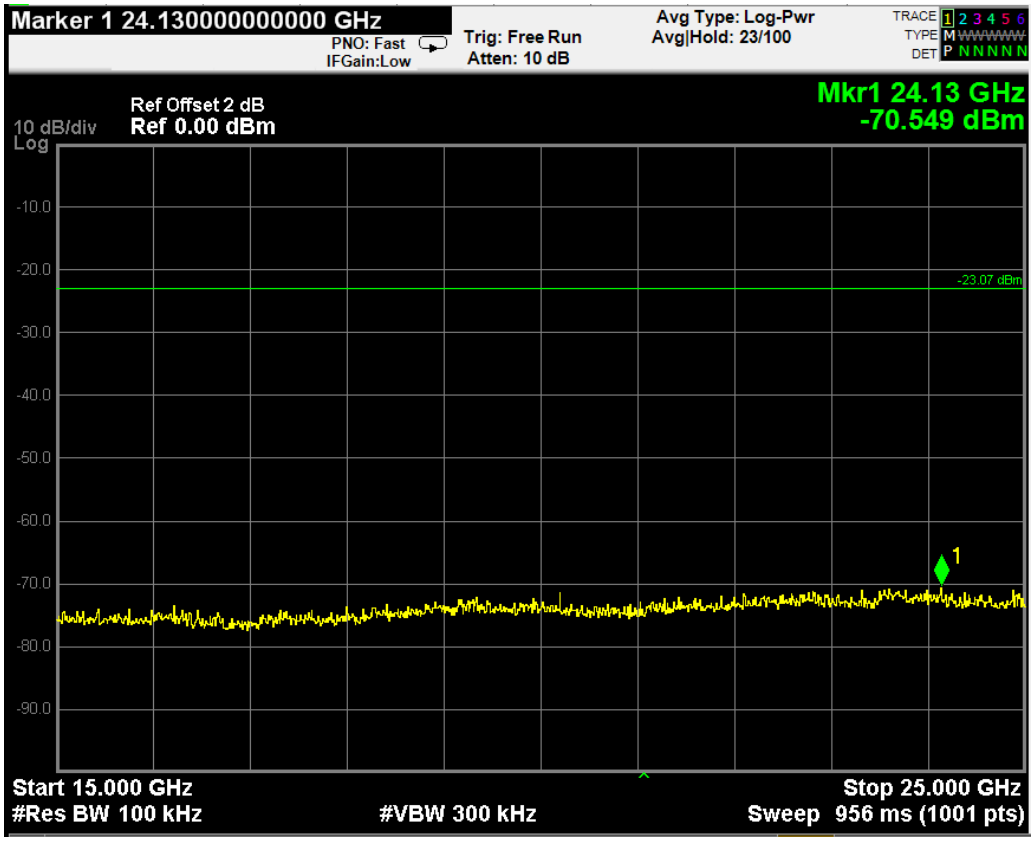
802.11n HT20 Ch 11 (2462 MHz) ANT1



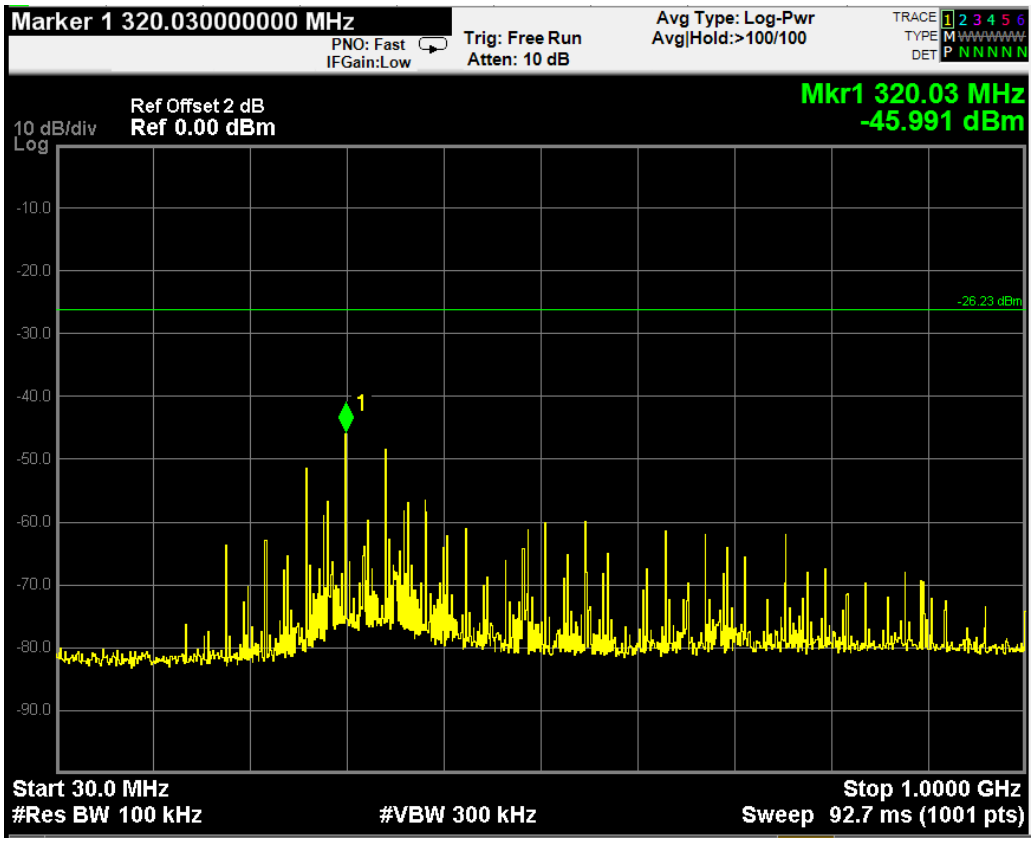


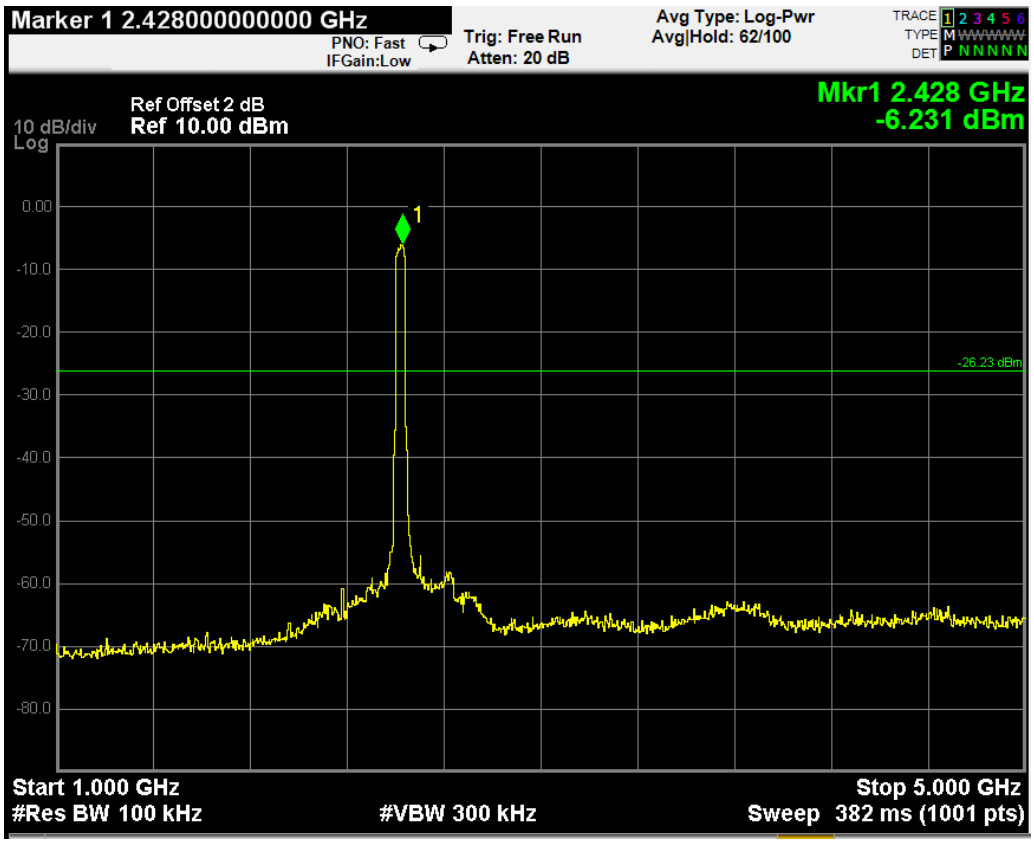

Marker 1 5.100000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 40/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 5.100 GHz
-73.656 dBm
-10.0
-20.0
-23.07 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

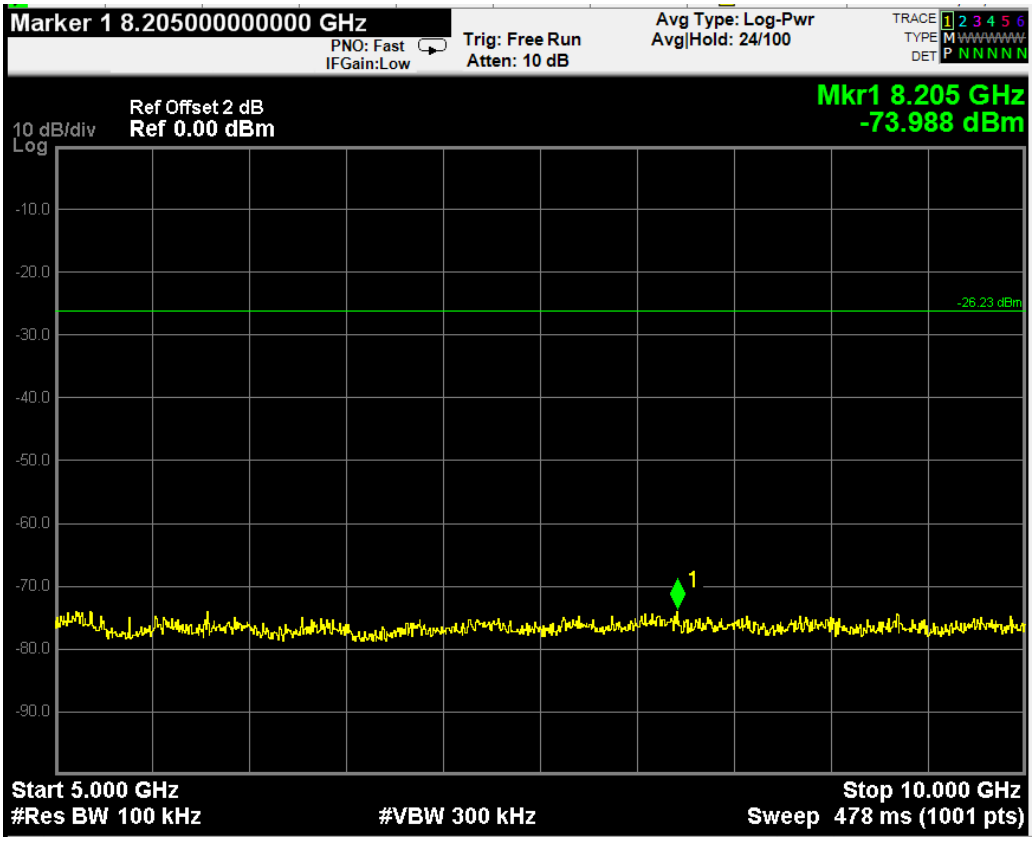

Marker 1 14.055000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 20/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.055 GHz
-74.000 dBm
-10.0
-20.0
-23.07 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

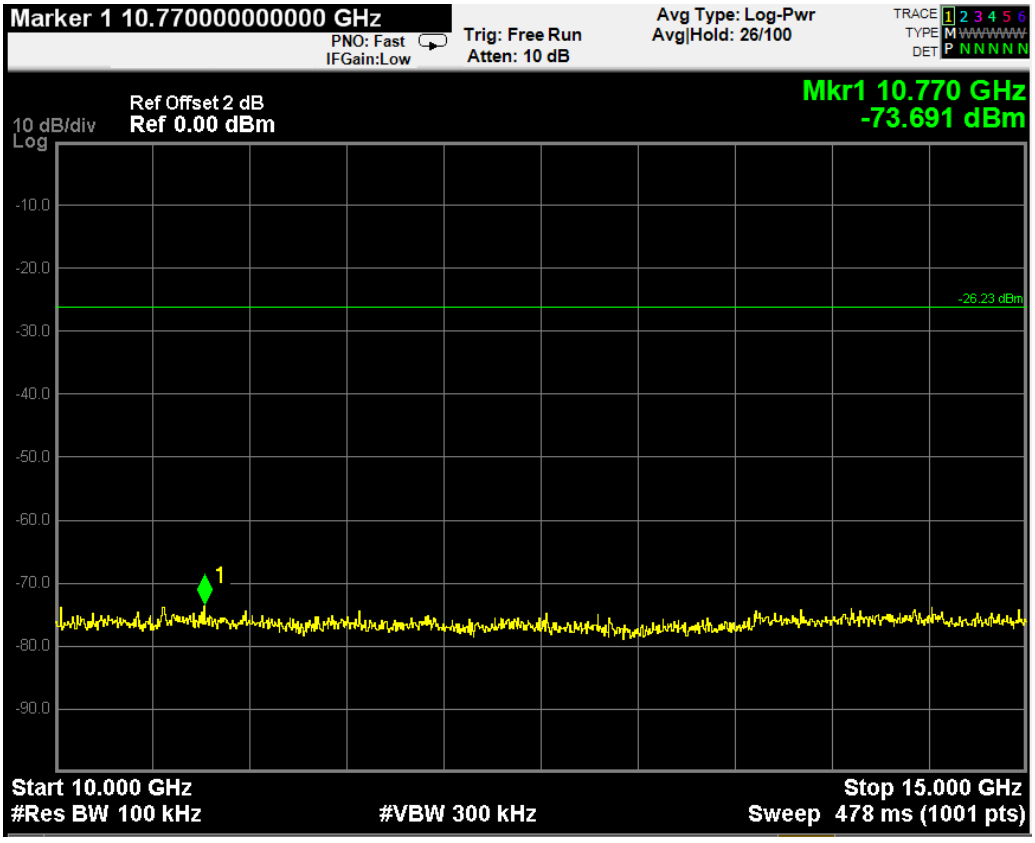

Marker 1 24.130000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 24.13 GHz
-70.549 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-23.07 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

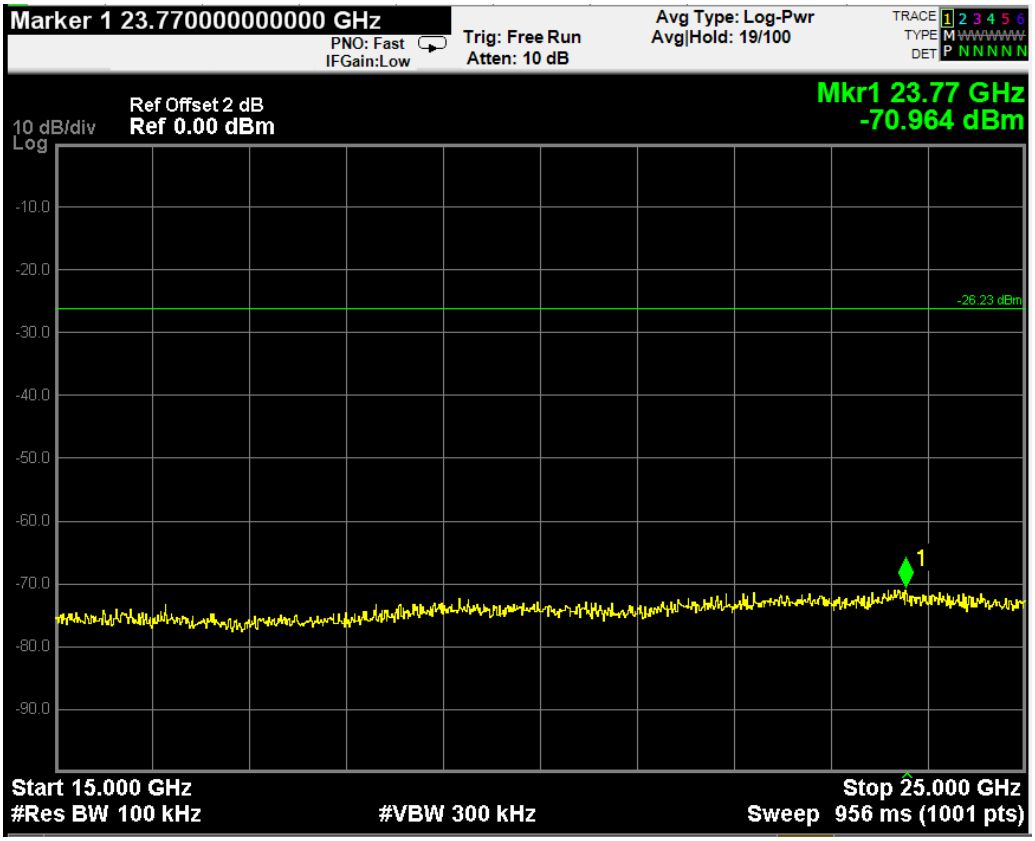
802.11n HT40 Ch 03 (2422 MHz) ANT1



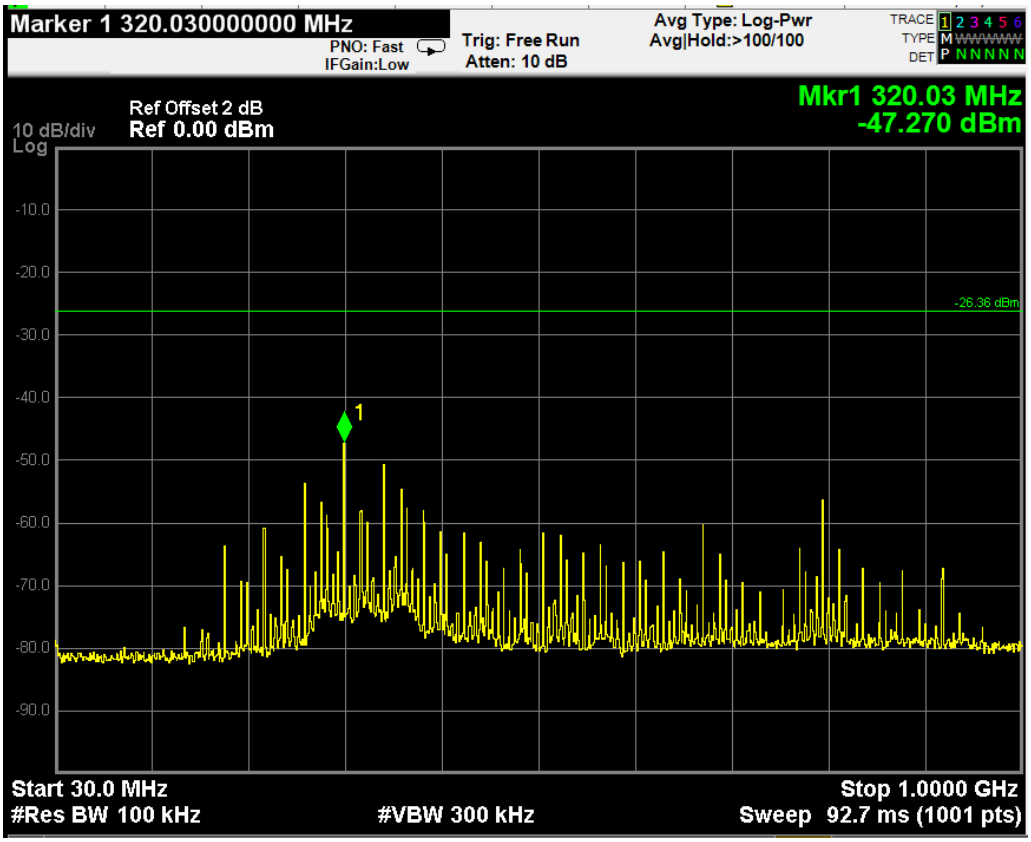


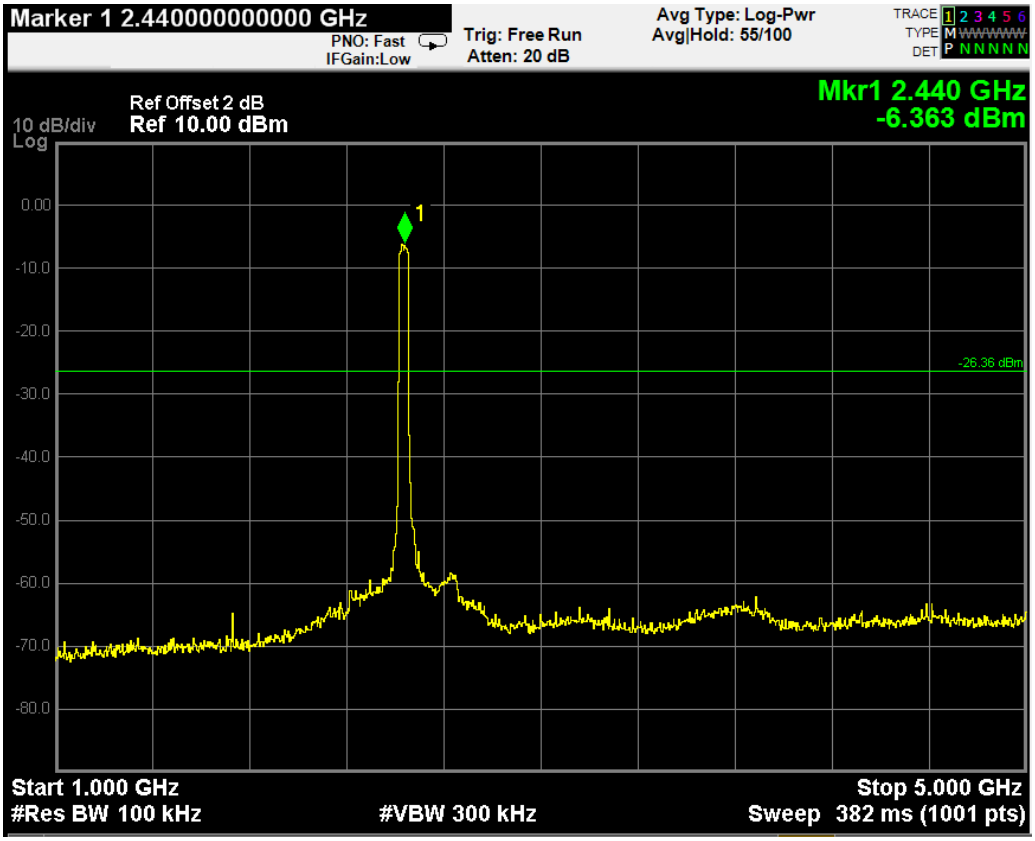

Marker 1 8.205000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 24/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.205 GHz
-73.988 dBm
-10.0
-20.0
-26.23 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

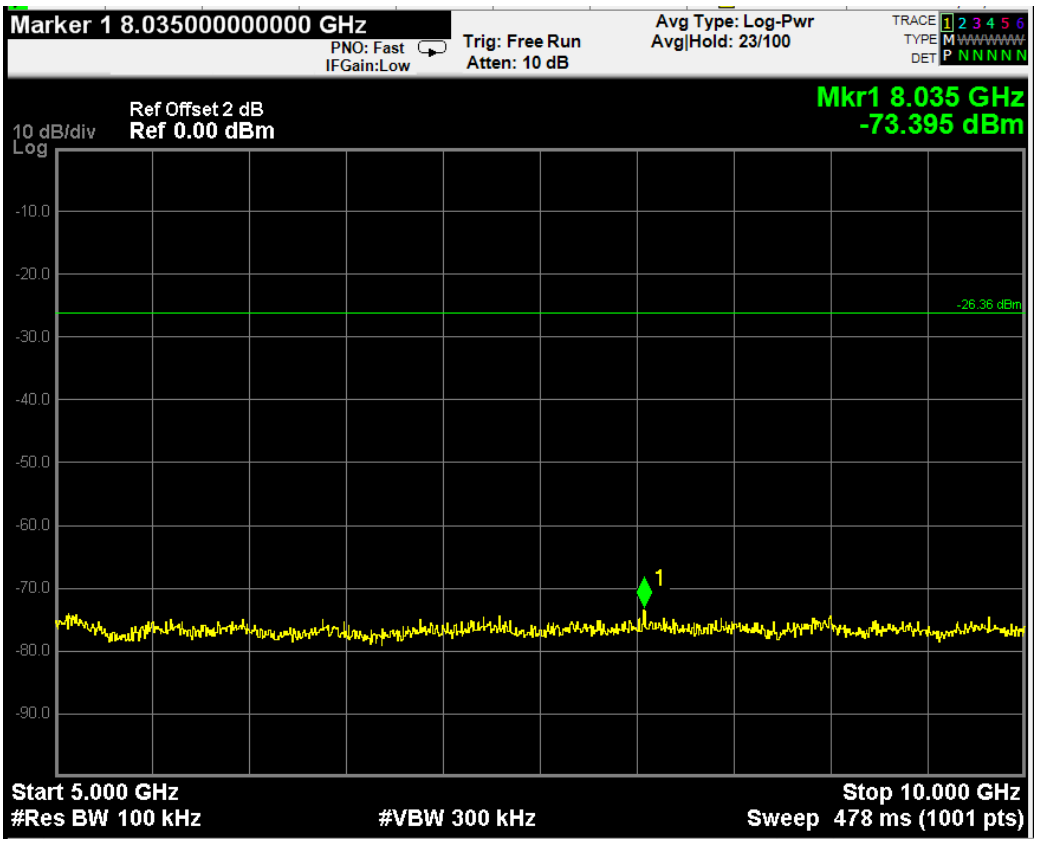

Marker 1 10.770000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 26/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 10.770 GHz
-73.691 dBm
-10.0
-20.0
-26.23 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

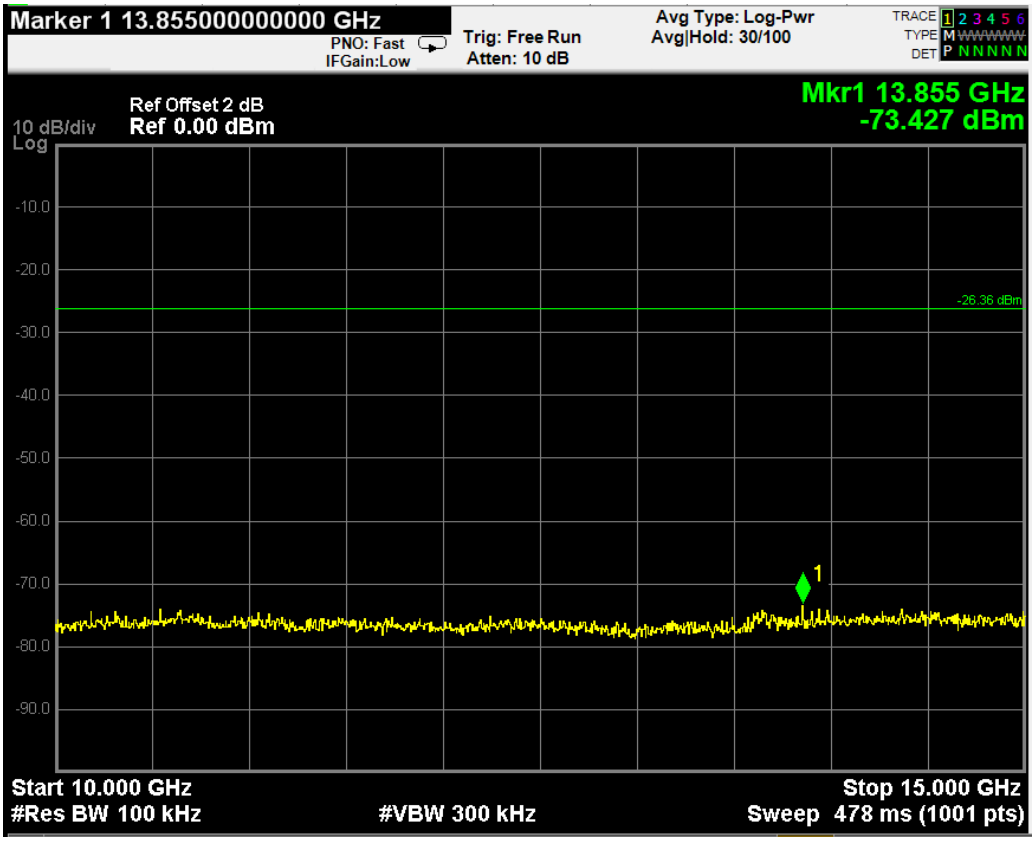

Marker 1 23.770000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 19/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.77 GHz
-70.964 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-26.23 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

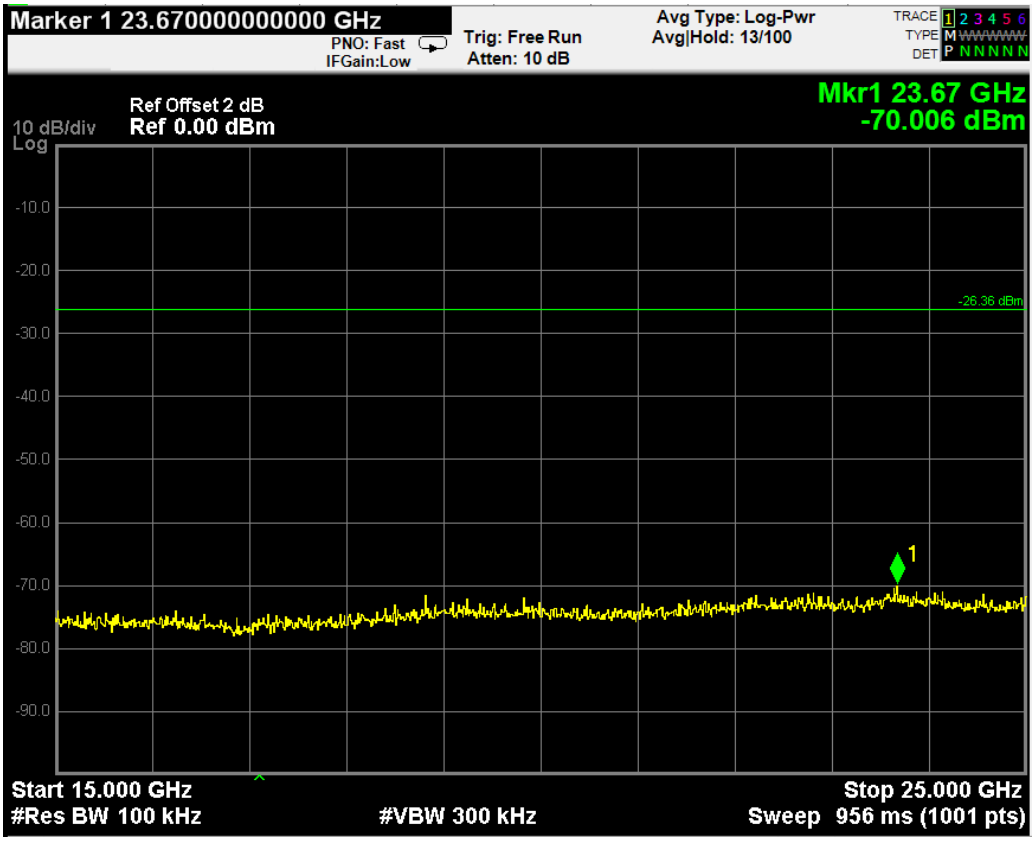
802.11n HT40 Ch 06 (2437 MHz) ANT1



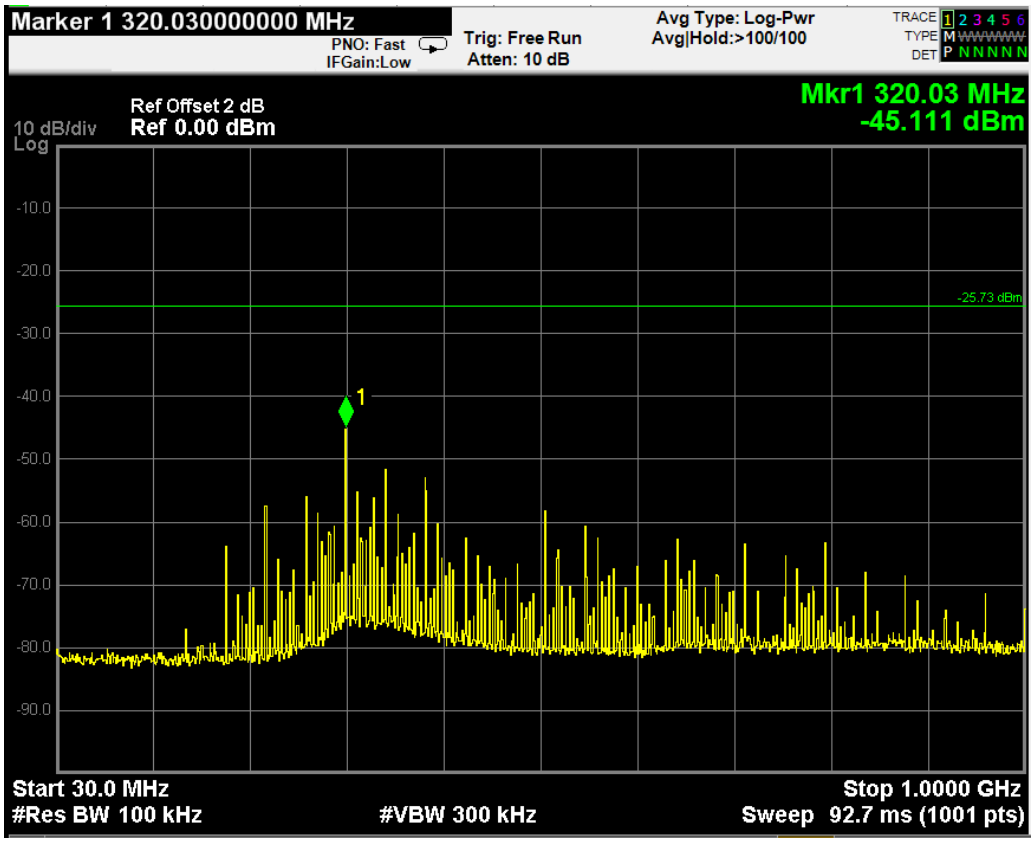


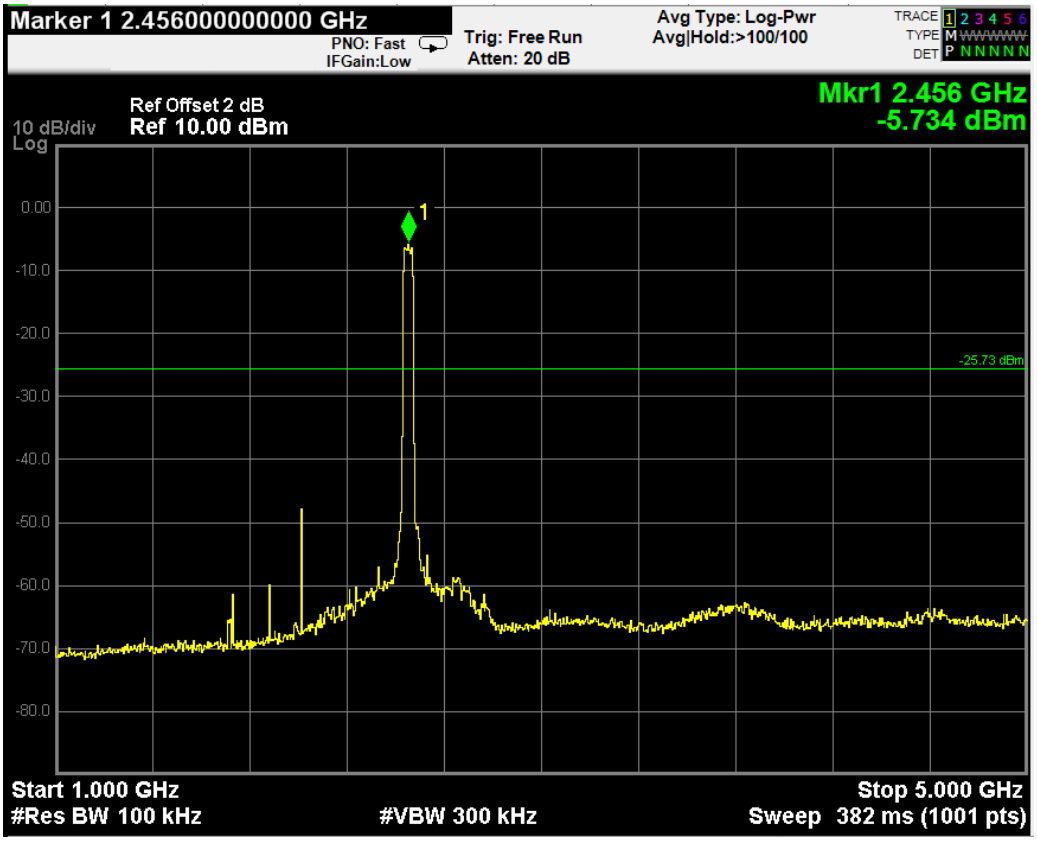

Marker 1 8.035000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.035 GHz
-73.395 dBm
-10.0
-20.0
-26.36 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

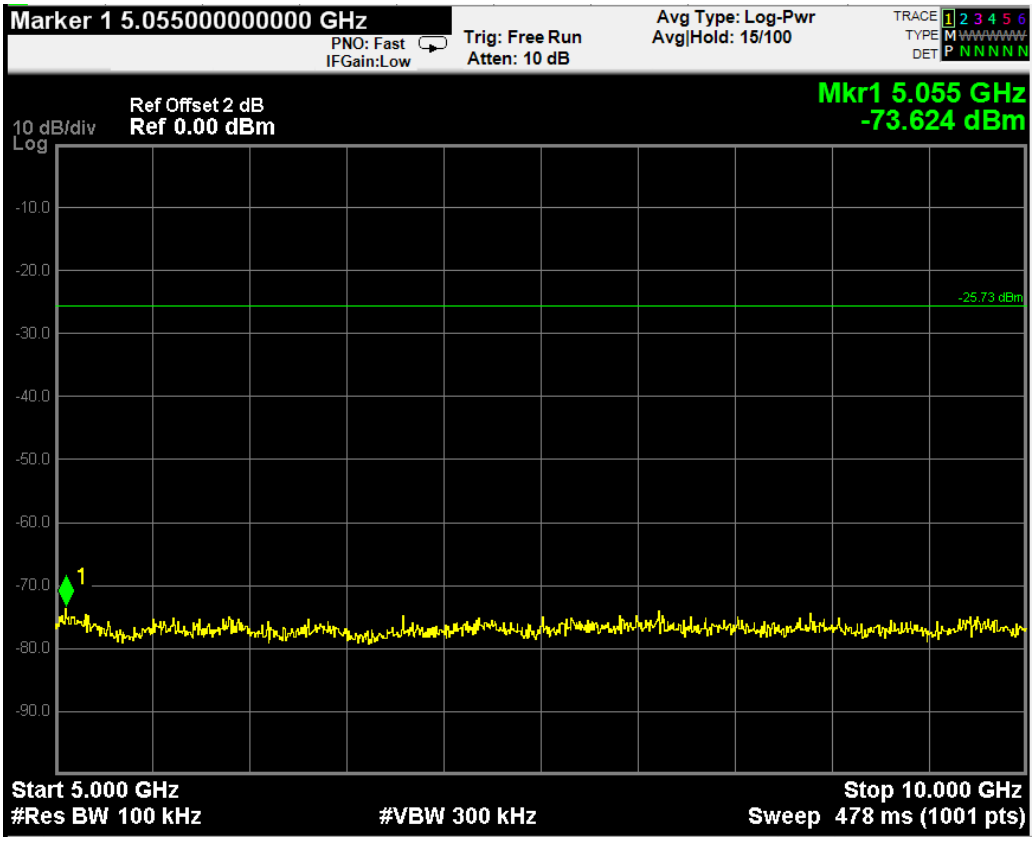

Marker 1 13.855000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 30/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 13.855 GHz
-73.427 dBm
-10.0
-20.0
-26.36 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

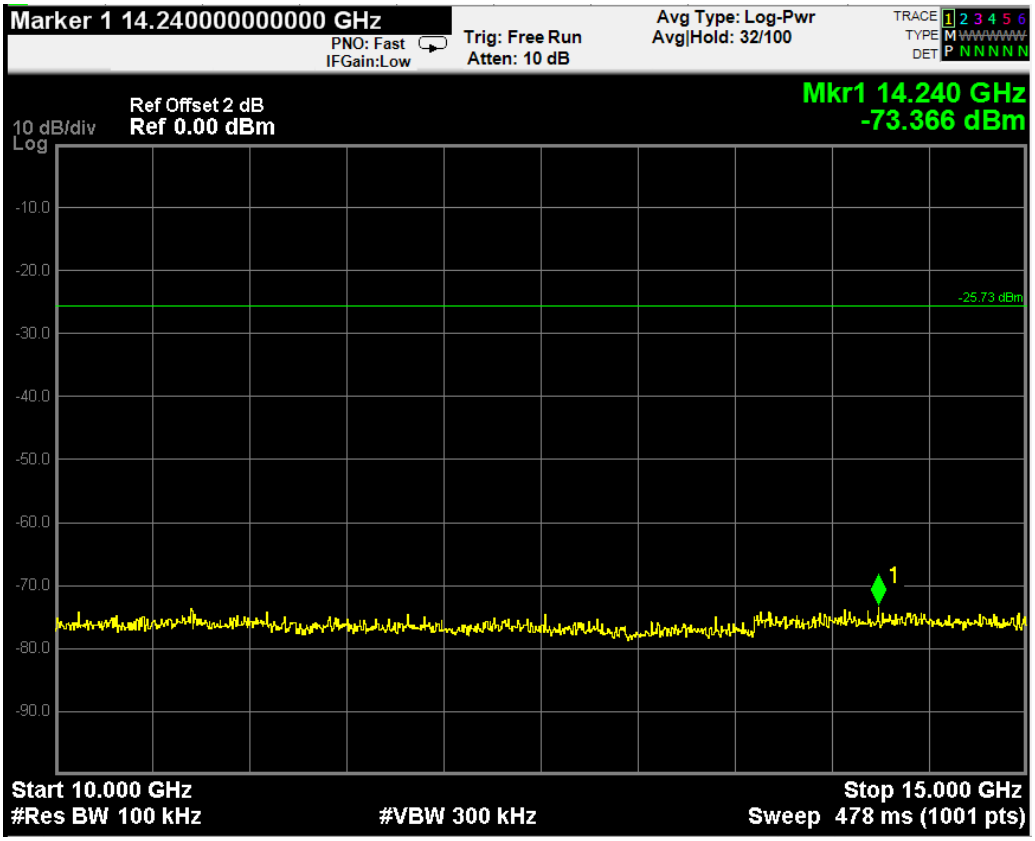

Marker 1 23.670000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 13/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.67 GHz
-70.006 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-26.36 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

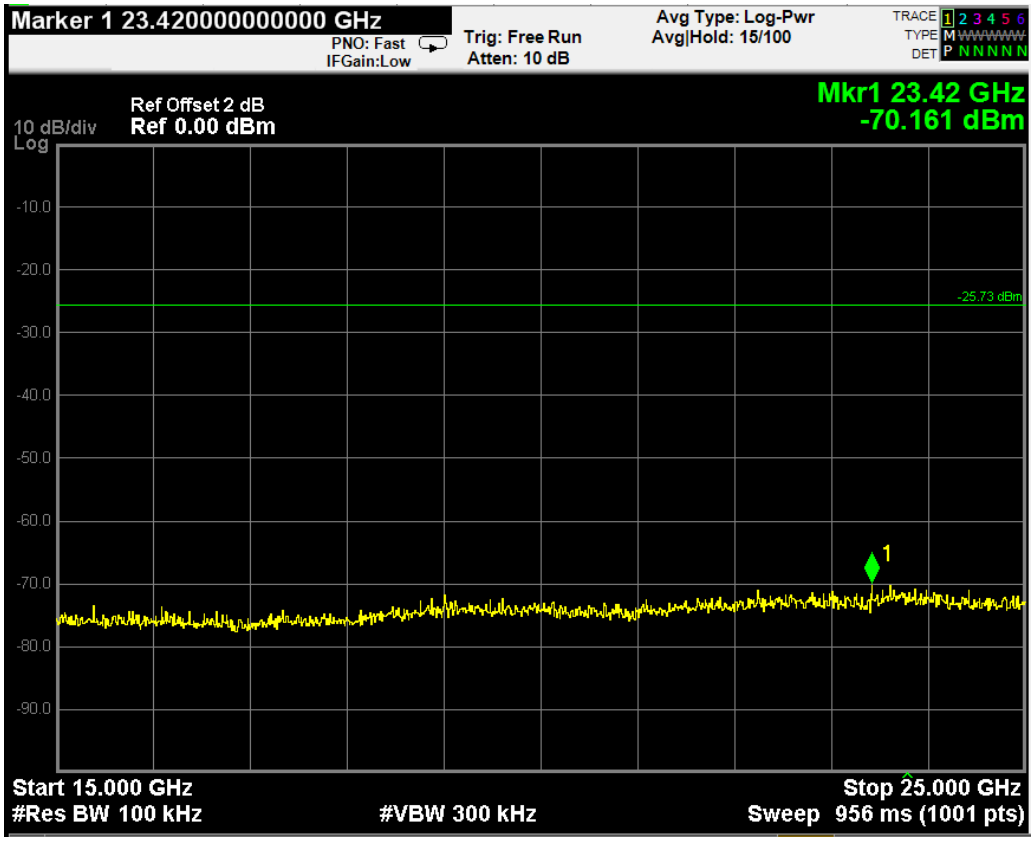
802.11n HT40 Ch 09 (2452 MHz) ANT1



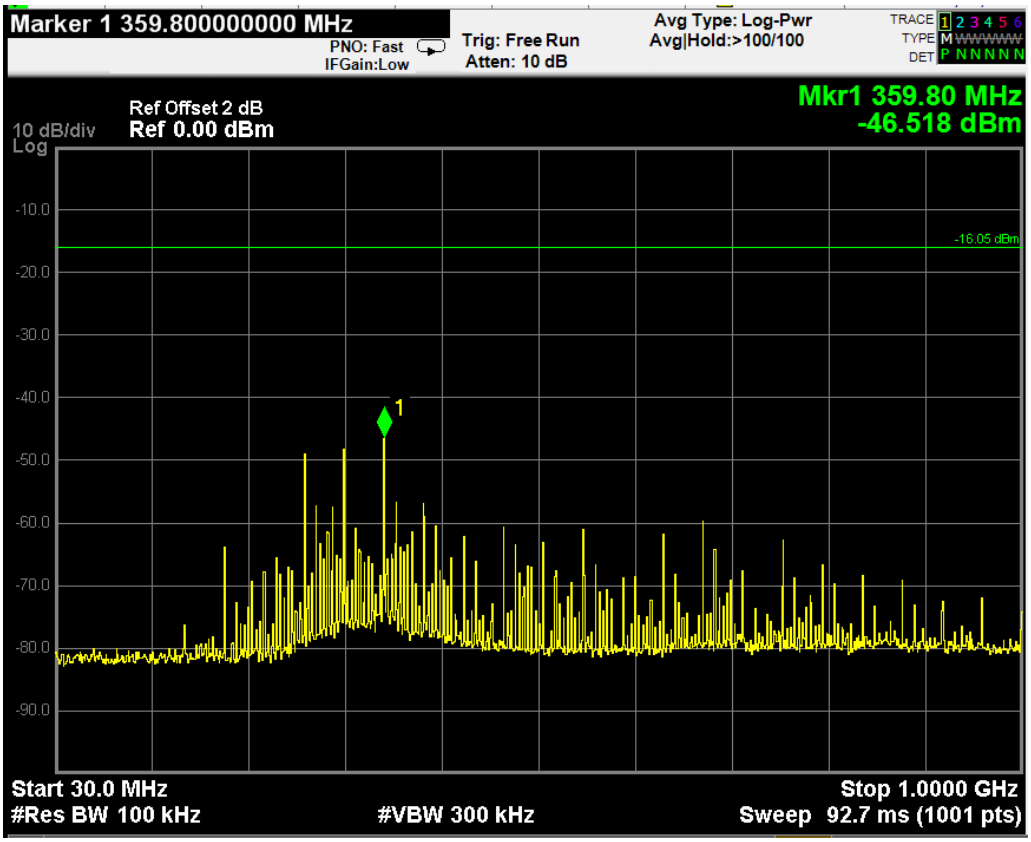


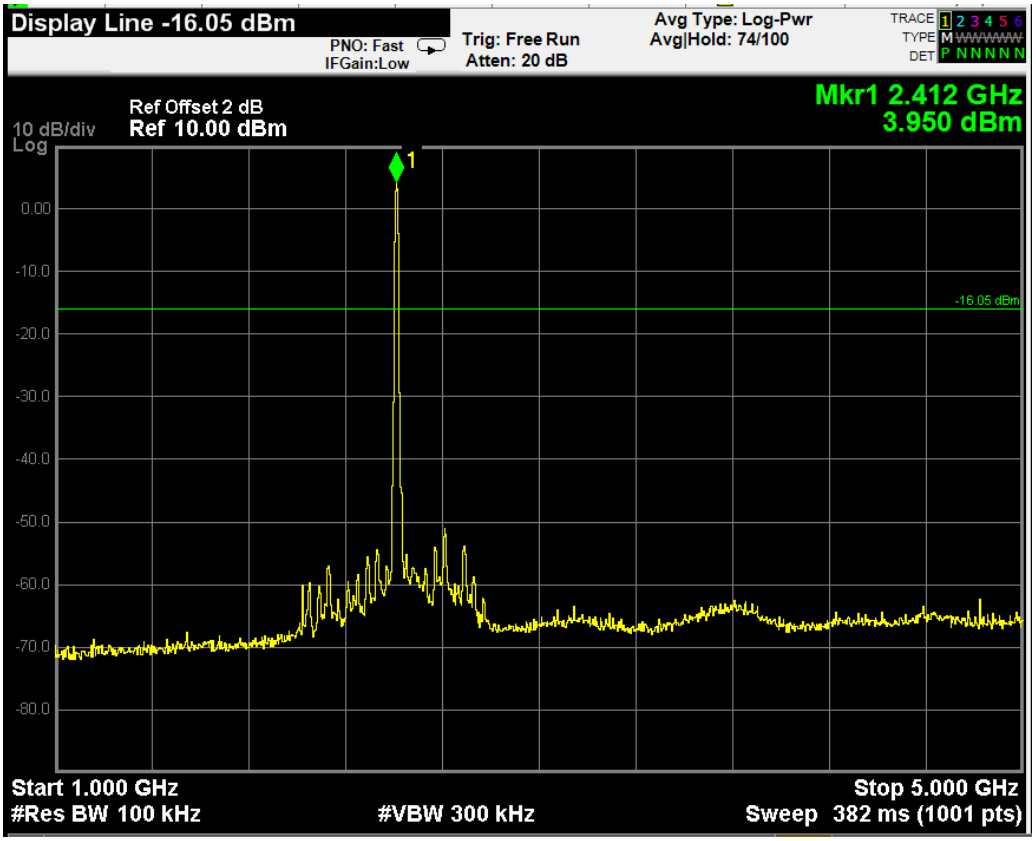

Marker 1 5.055000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 15/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.055 GHz
-73.624 dBm
-10.0
-20.0
-25.73 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

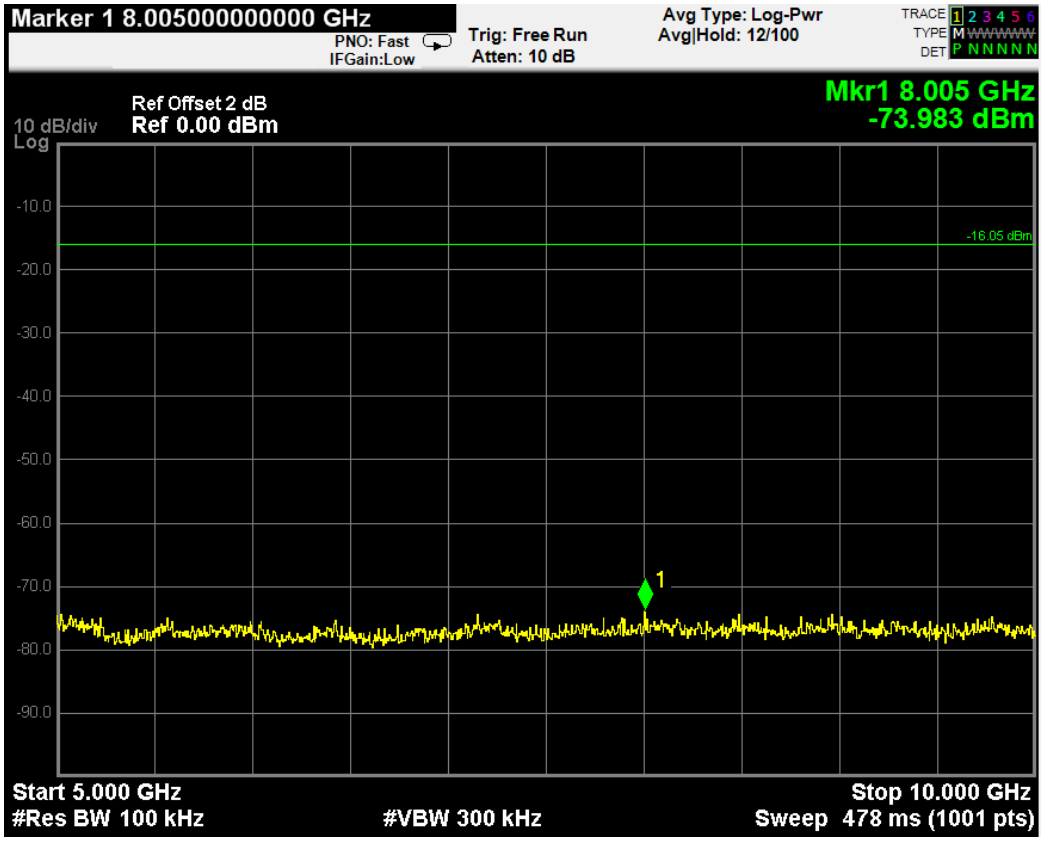

Marker 1 14.240000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.240 GHz
-73.366 dBm
-10.0
-20.0
-25.73 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

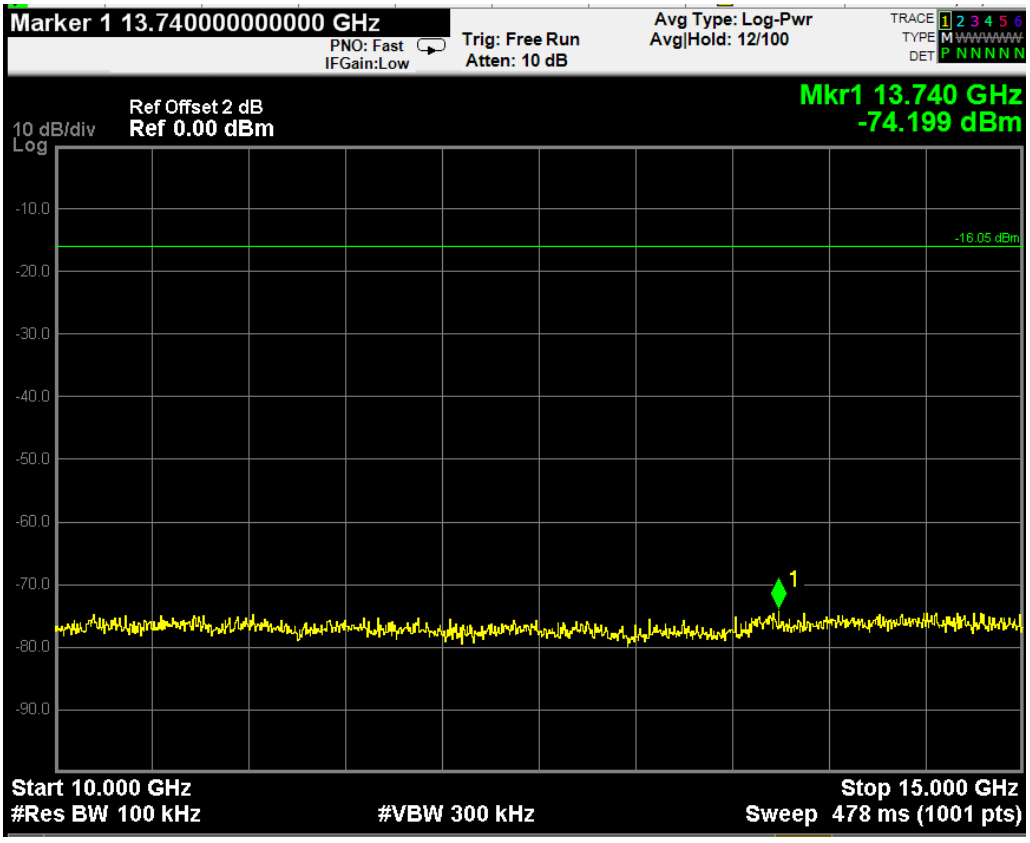

Marker 1 23.420000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 15/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.42 GHz
-70.161 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.73 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

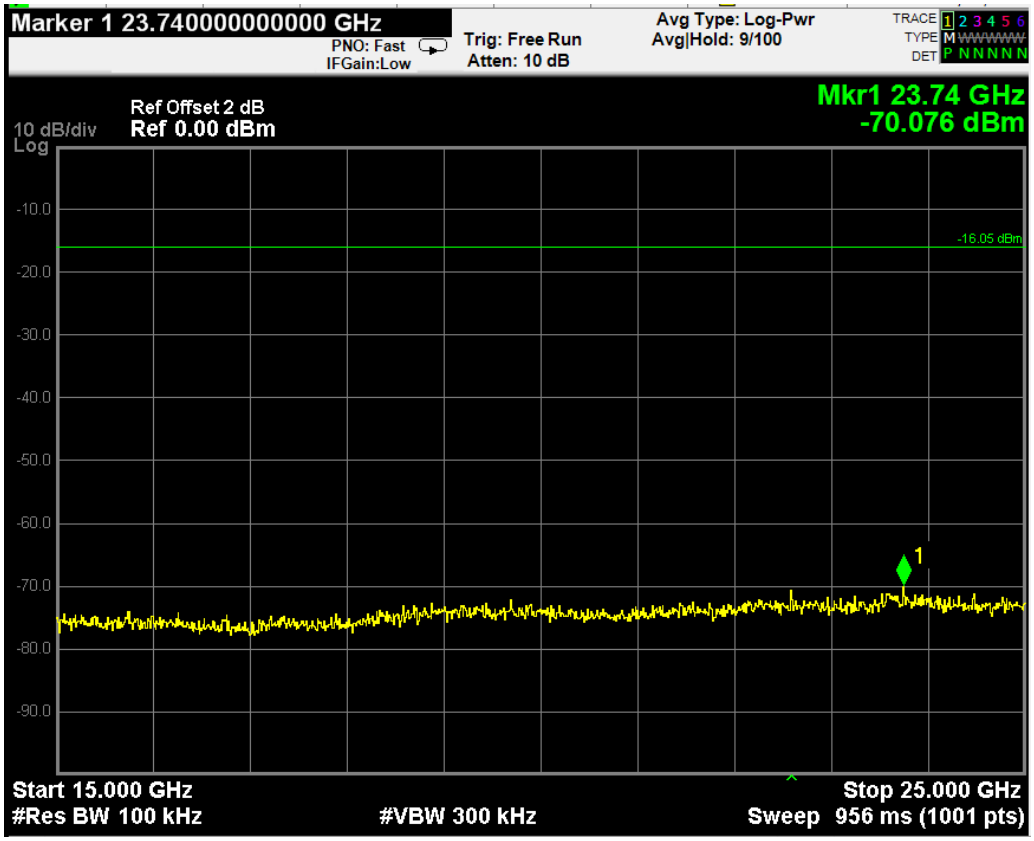
802.11b Ch 01 (2412 MHz) ANT2



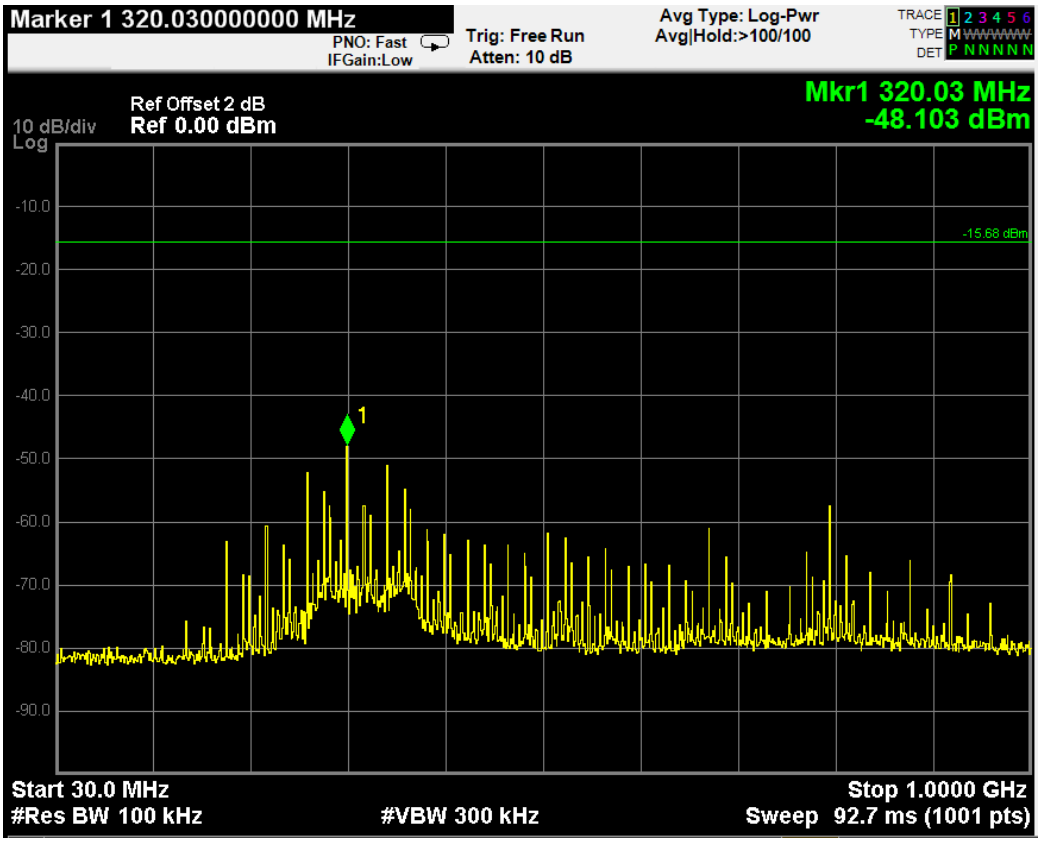


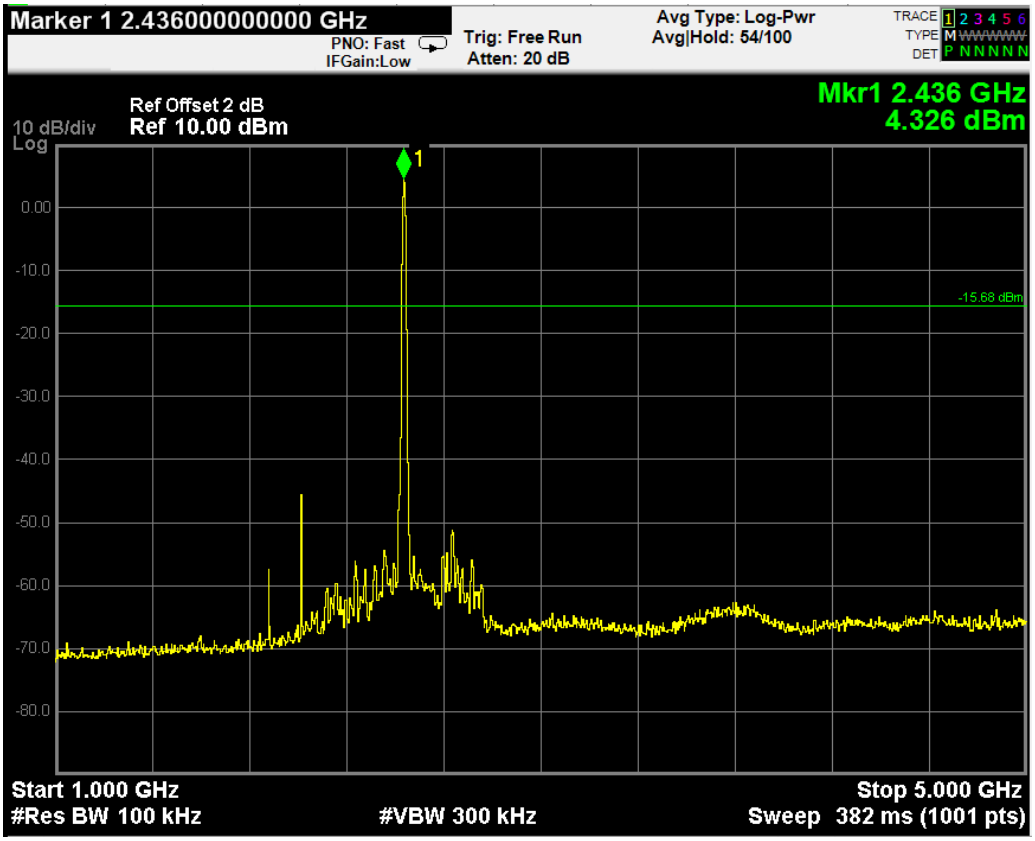

Marker 1 8.005000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 12/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 8.005 GHz
-73.983 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-16.05 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

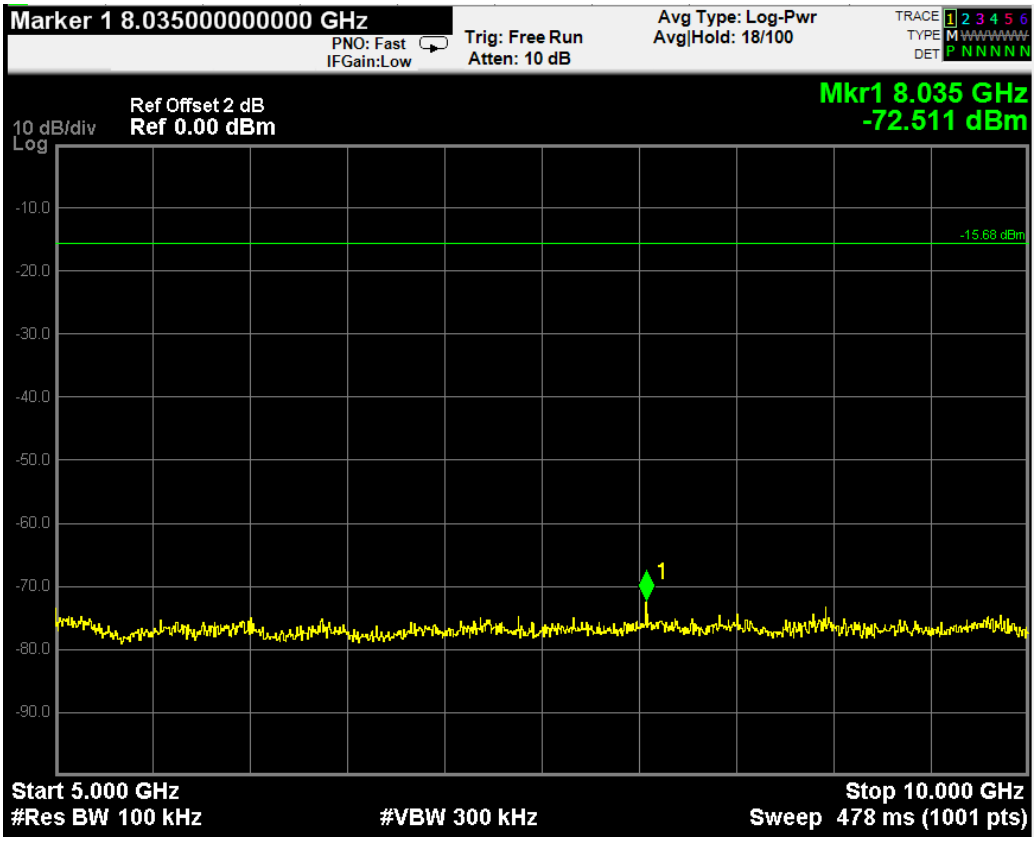

Marker 1 13.740000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 12/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 13.740 GHz
-74.199 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-16.05 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

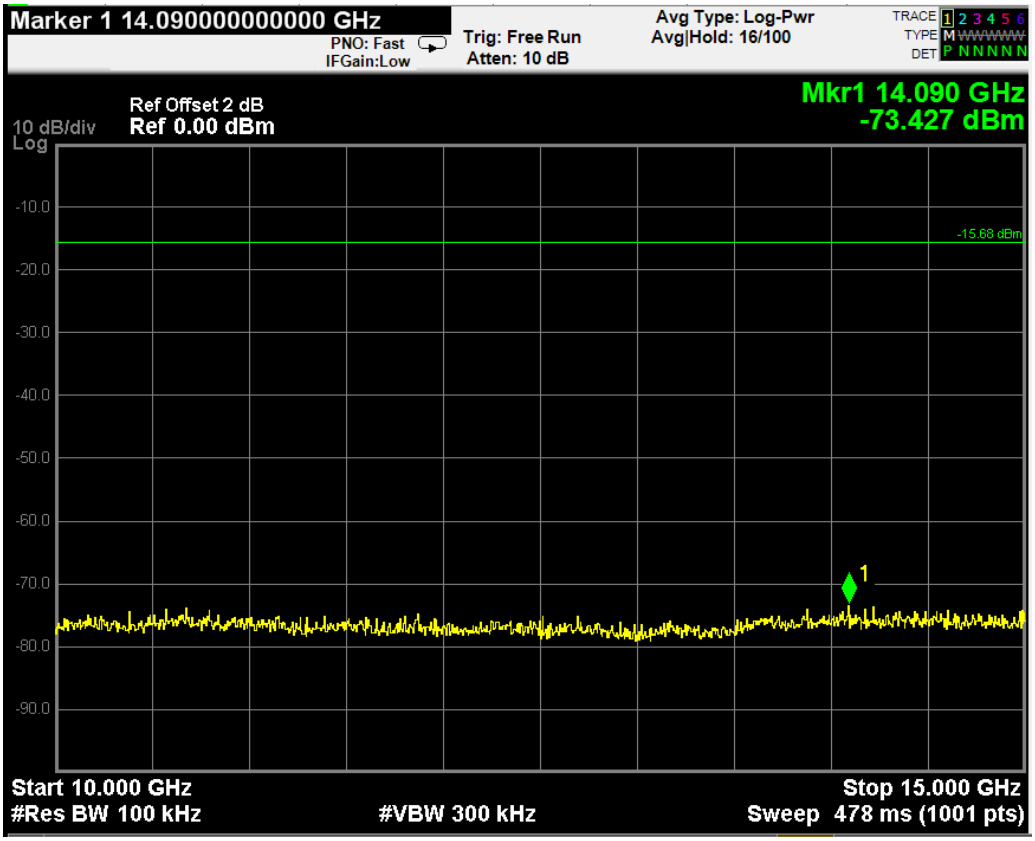

Marker 1 23.740000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 9/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.74 GHz
-70.076 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-16.05 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

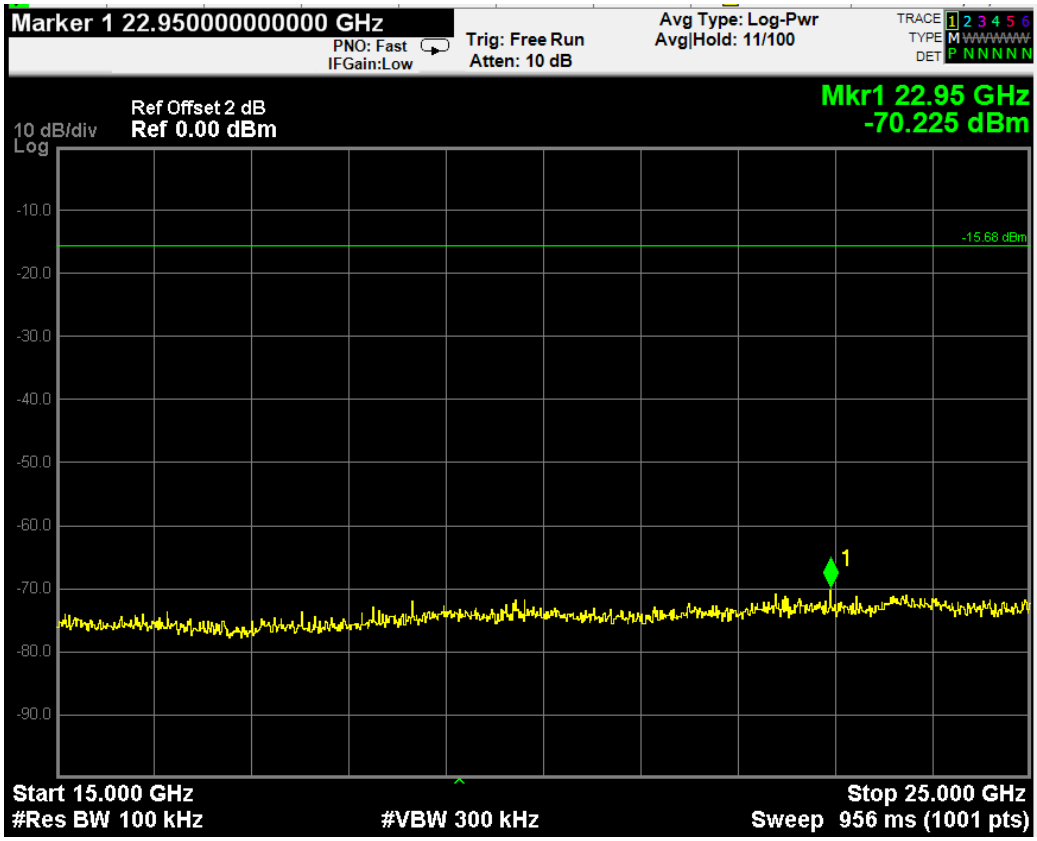
802.11b Ch 06 (2437 MHz) ANT2



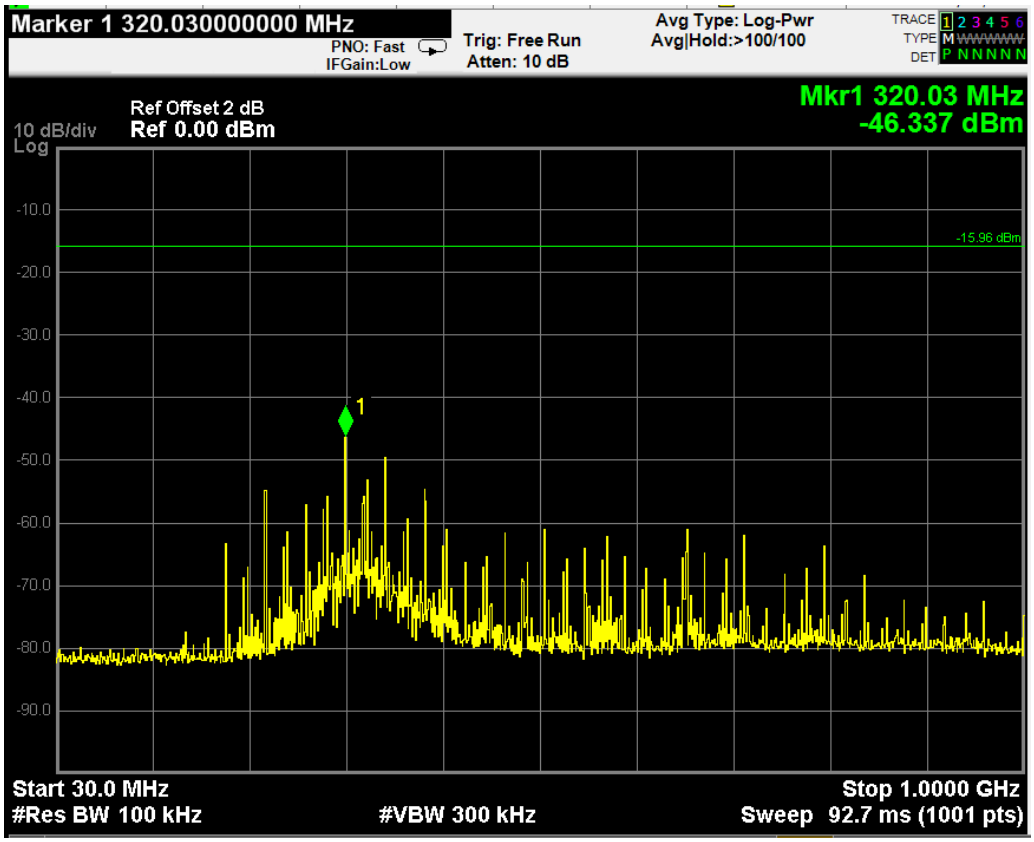


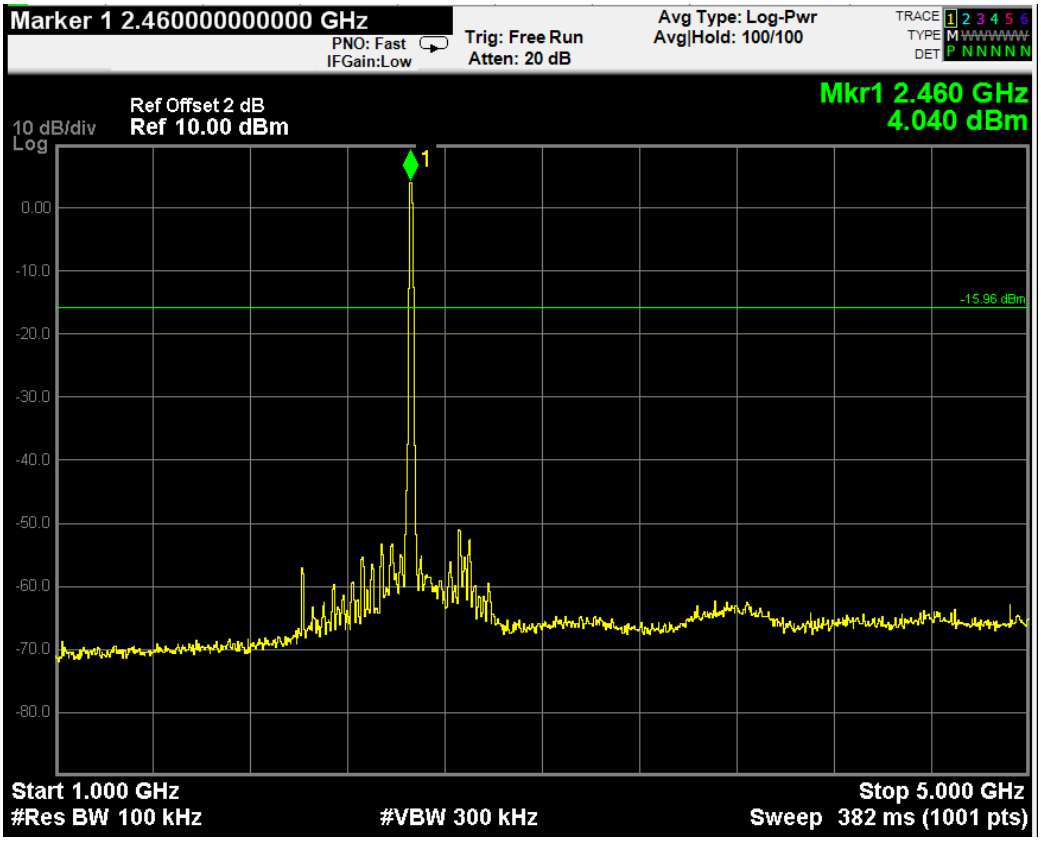

Marker 1 8.035000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 18/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.035 GHz
-72.511 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.68 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

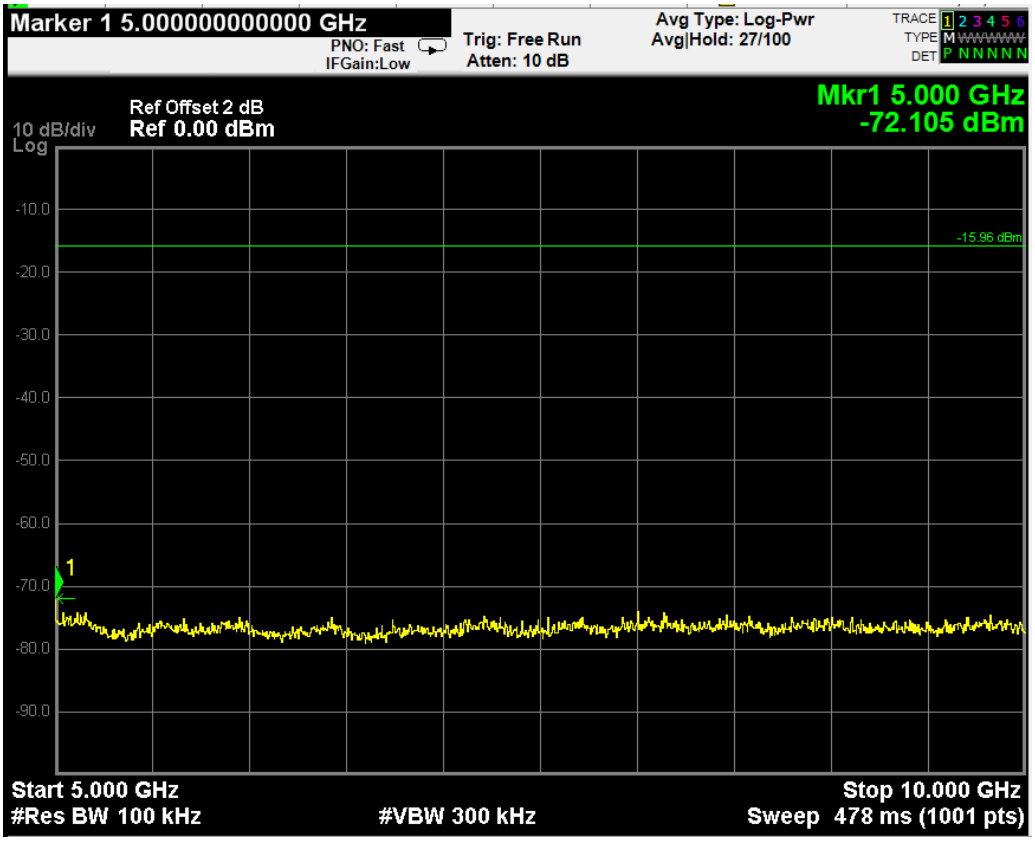

Marker 1 14.090000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 16/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.090 GHz
-73.427 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.68 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

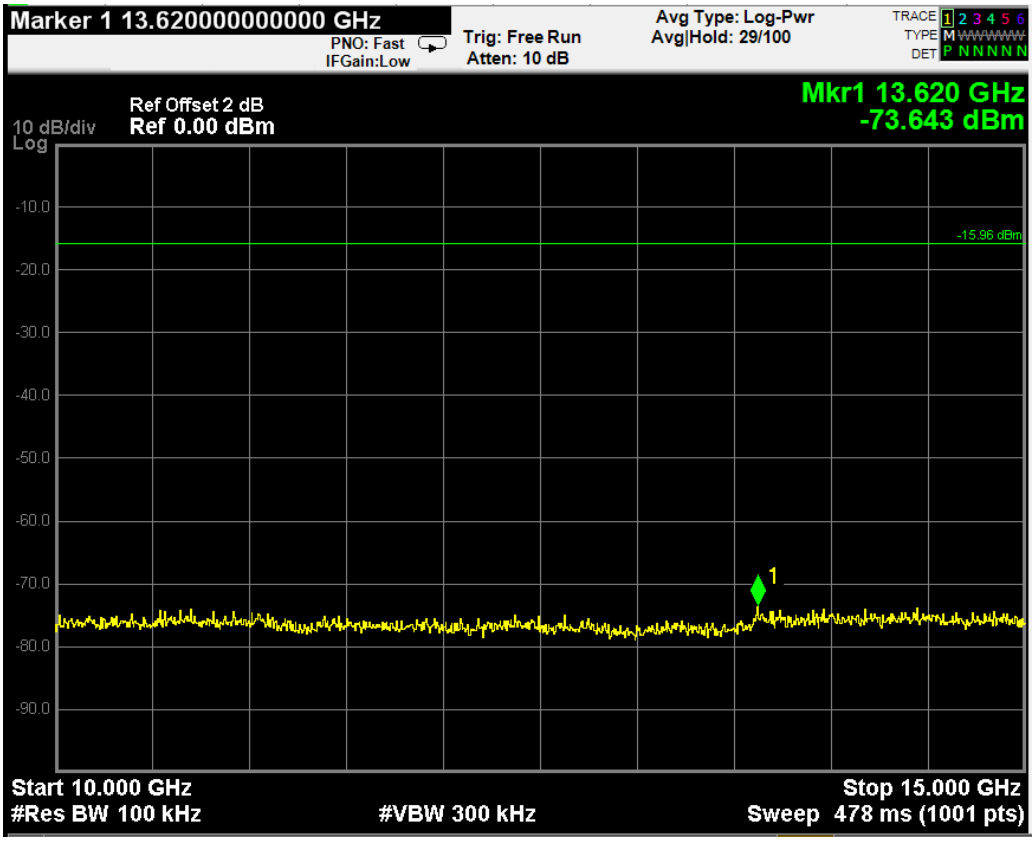

Marker 1 22.950000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 22.95 GHz
-70.225 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.68 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

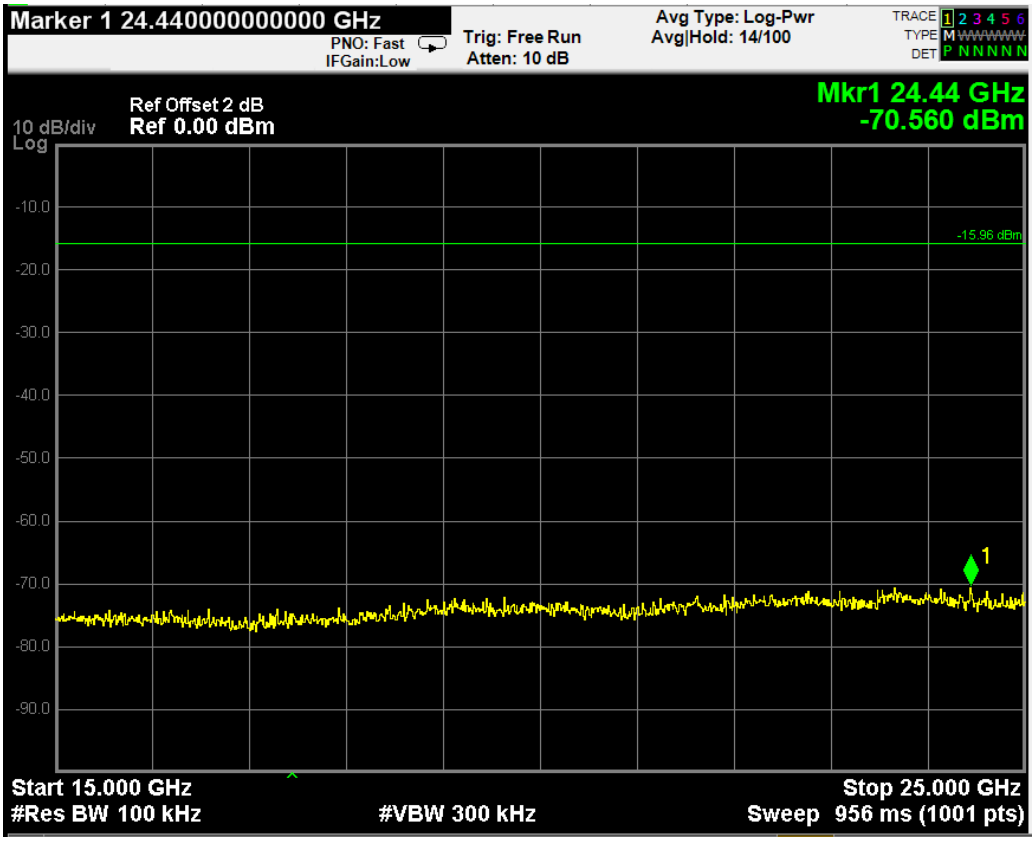
802.11b Ch 11 (2462 MHz) ANT2



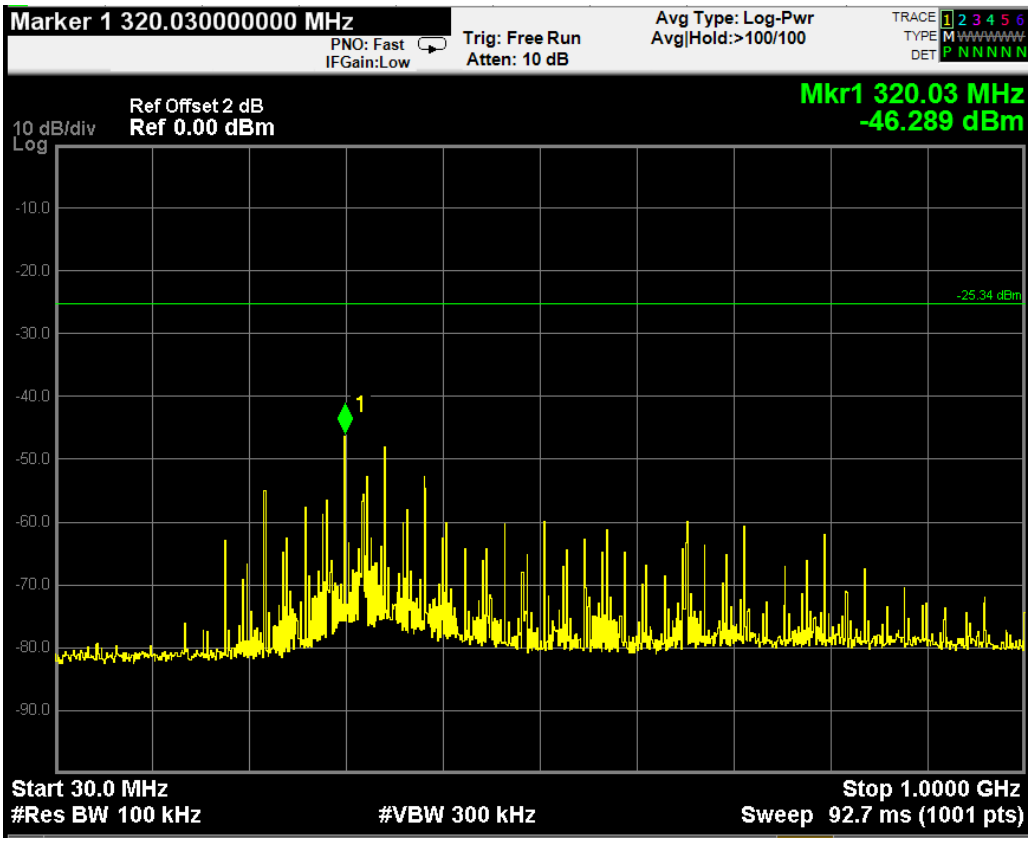


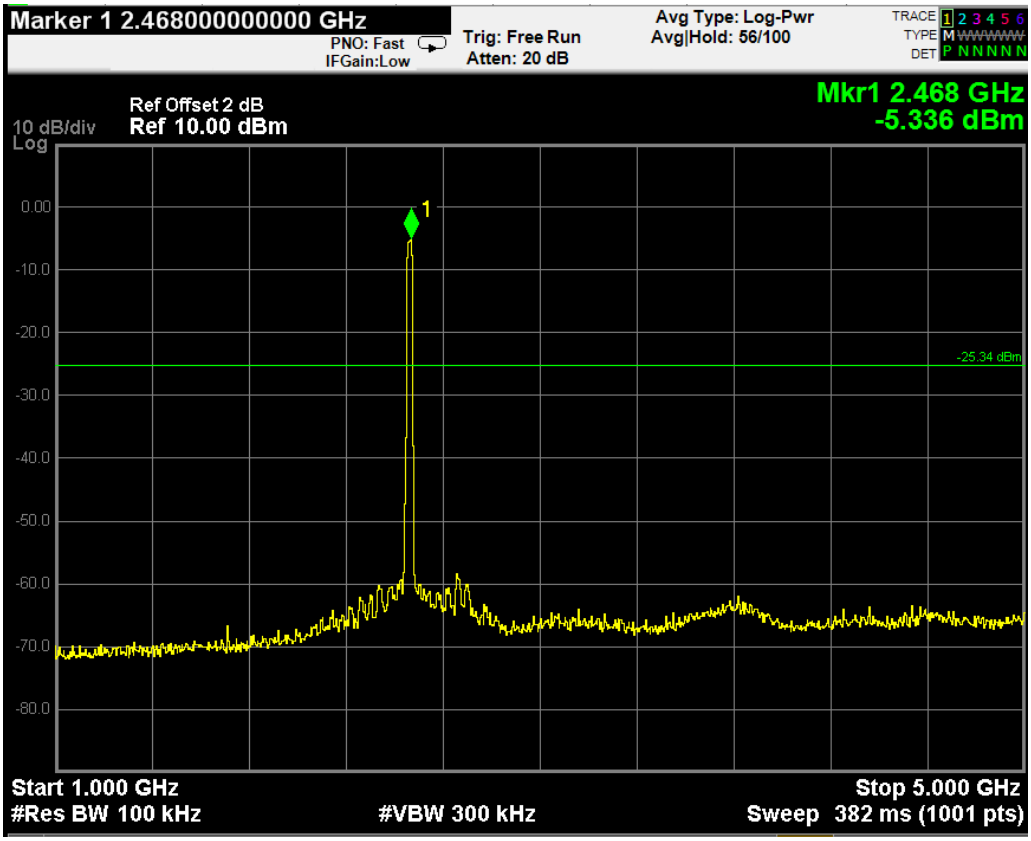

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 27/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-72.105 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.96 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

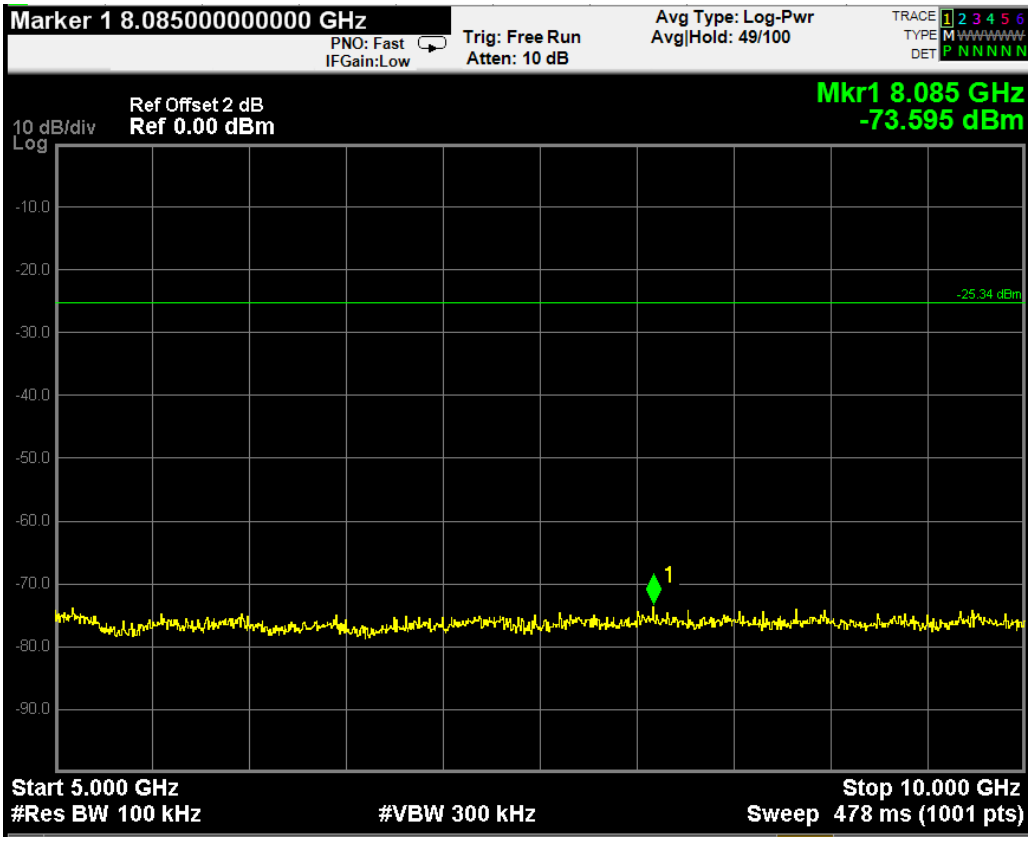

Marker 1 13.620000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 29/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 13.620 GHz
-73.643 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.96 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

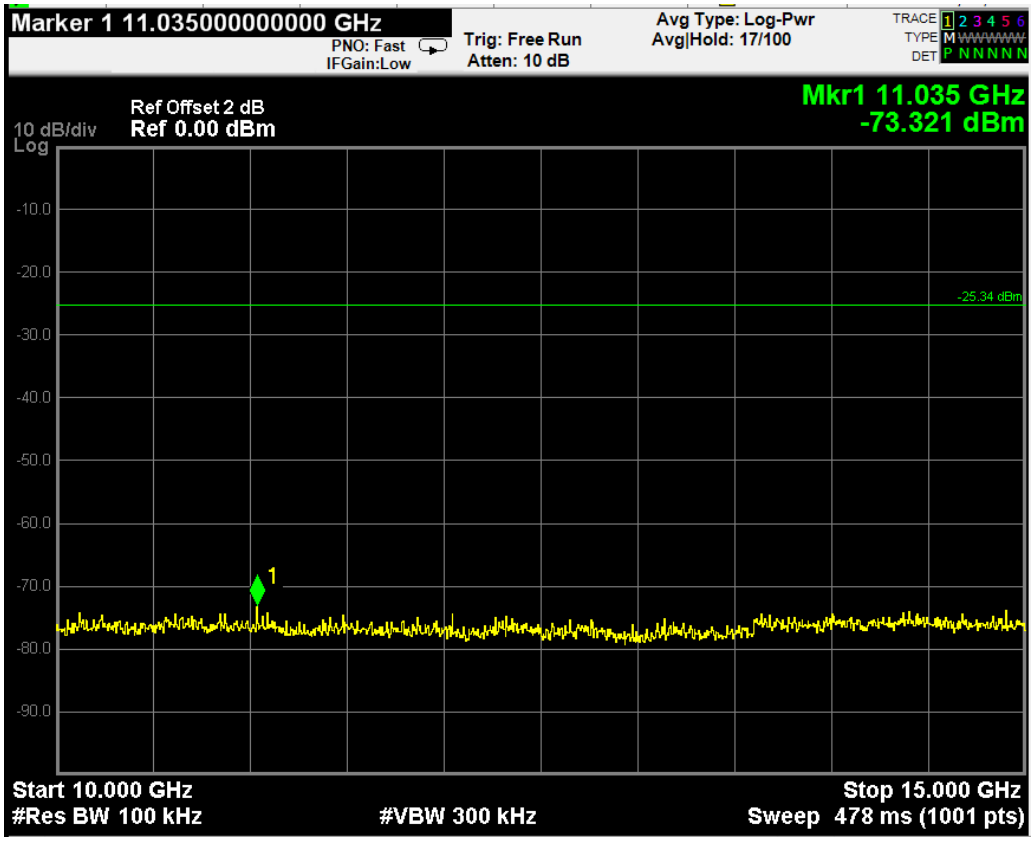

Marker 1 24.440000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 14/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 24.44 GHz
-70.560 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-15.96 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

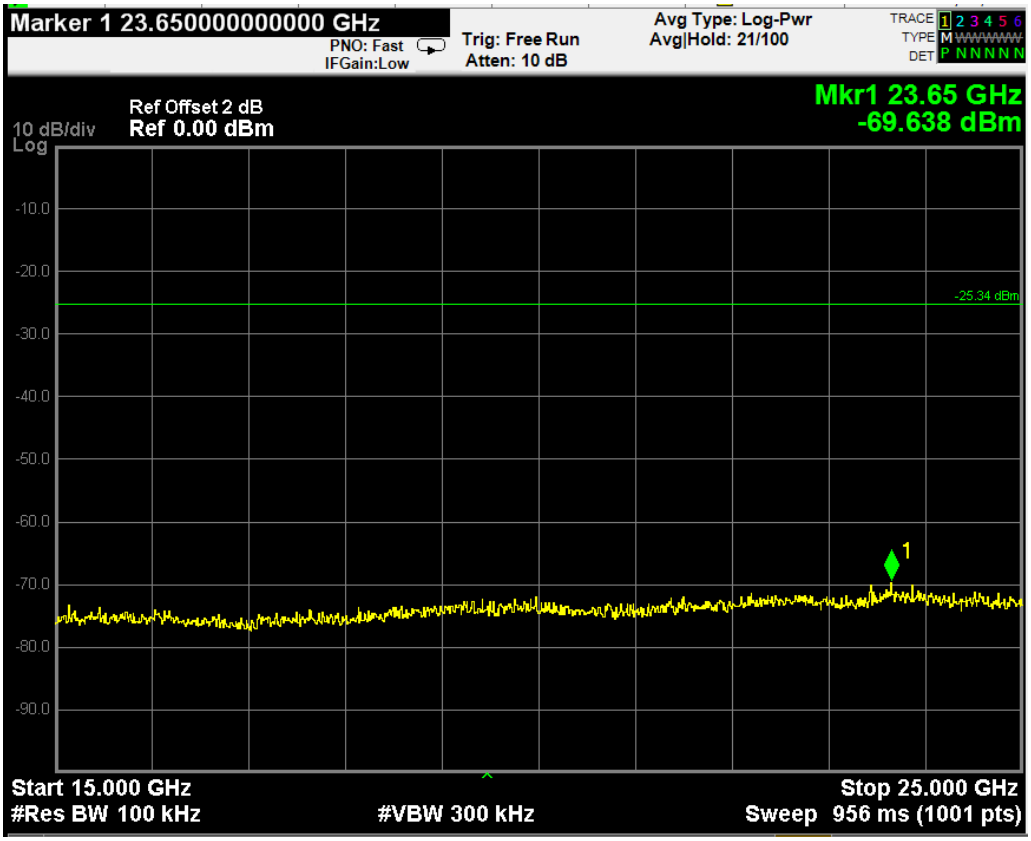
802.11g Ch 01 (2412 MHz) ANT2



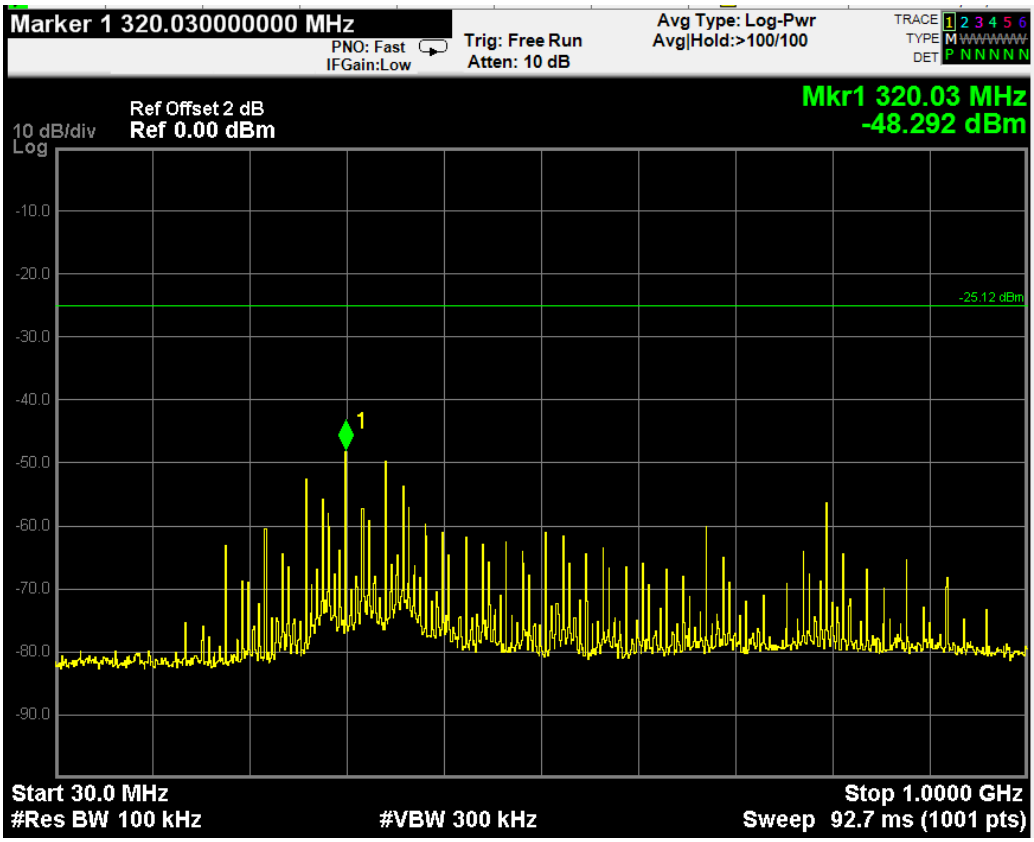


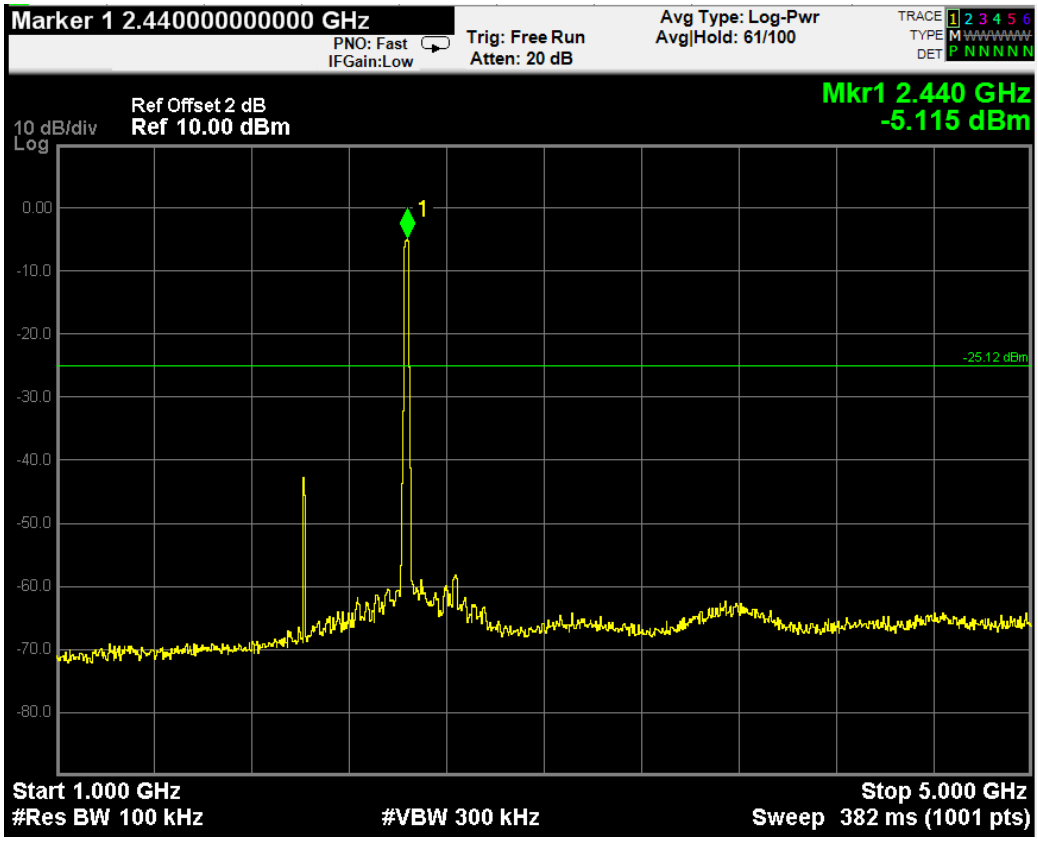

Marker 1 8.085000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 49/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 8.085 GHz
-73.595 dBm
-10.0
-20.0
-25.34 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

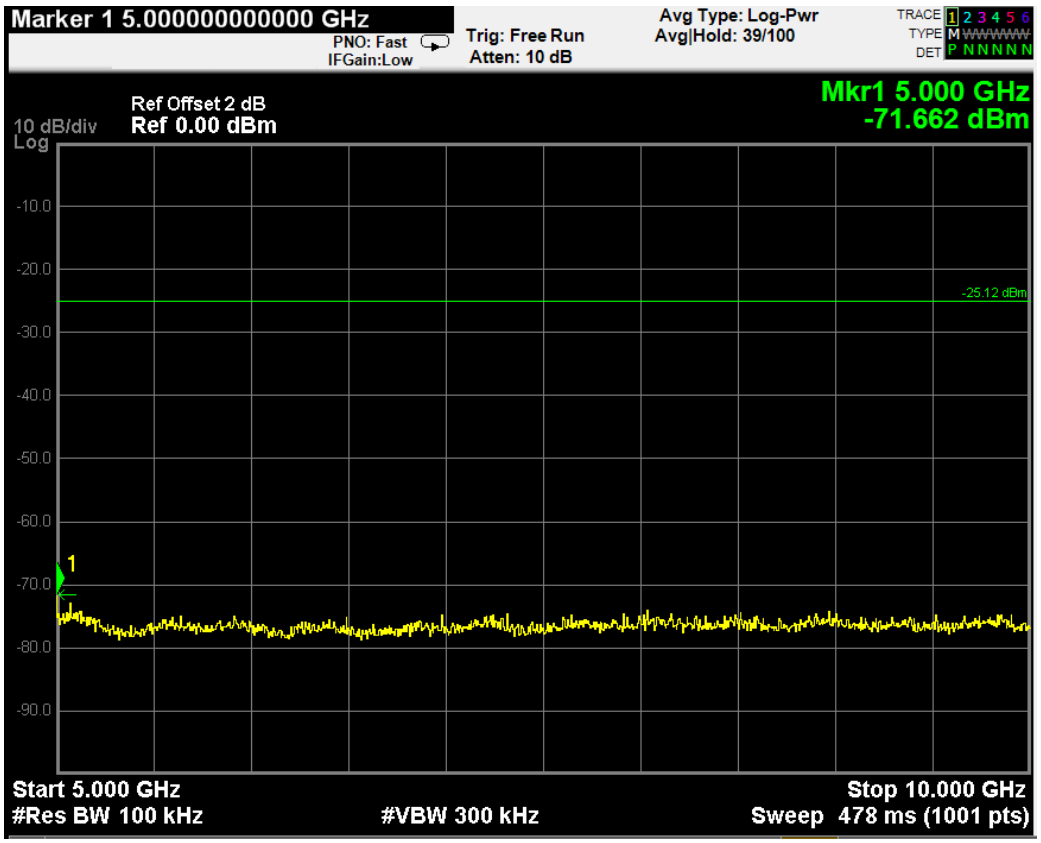

Marker 1 11.035000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 17/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 11.035 GHz
-73.321 dBm
-10.0
-20.0
-25.34 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

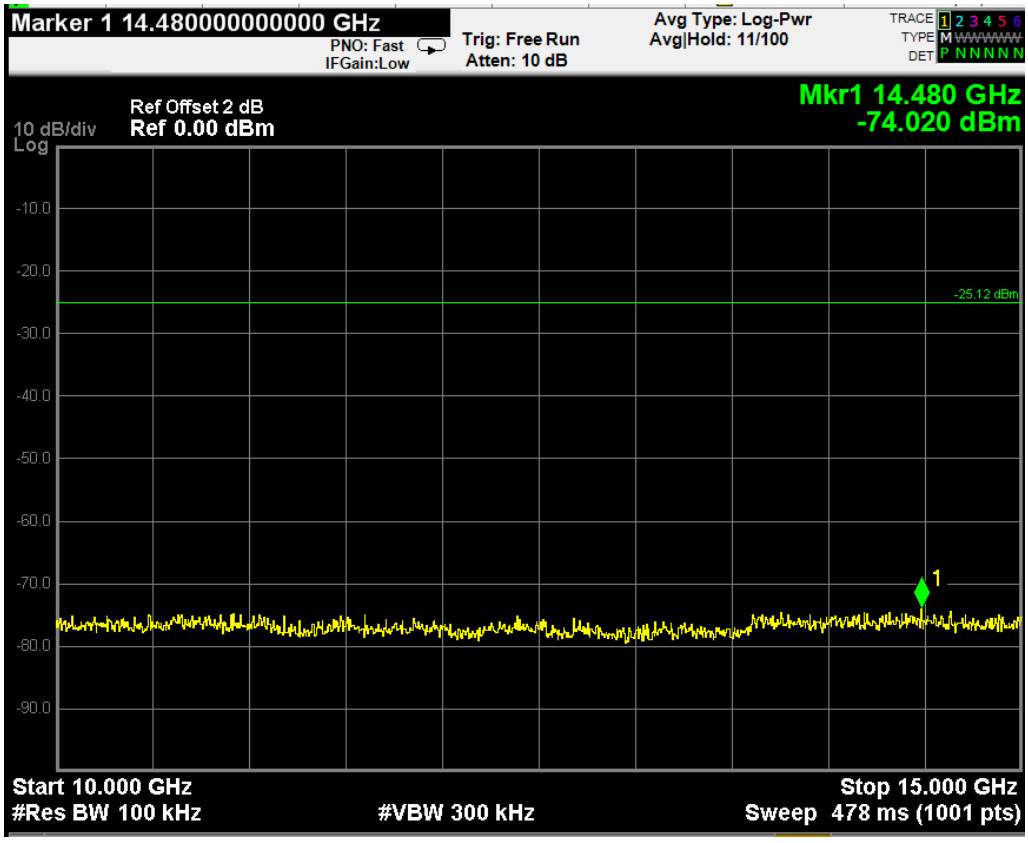

Marker 1 23.650000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 21/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.65 GHz
-69.638 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.34 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

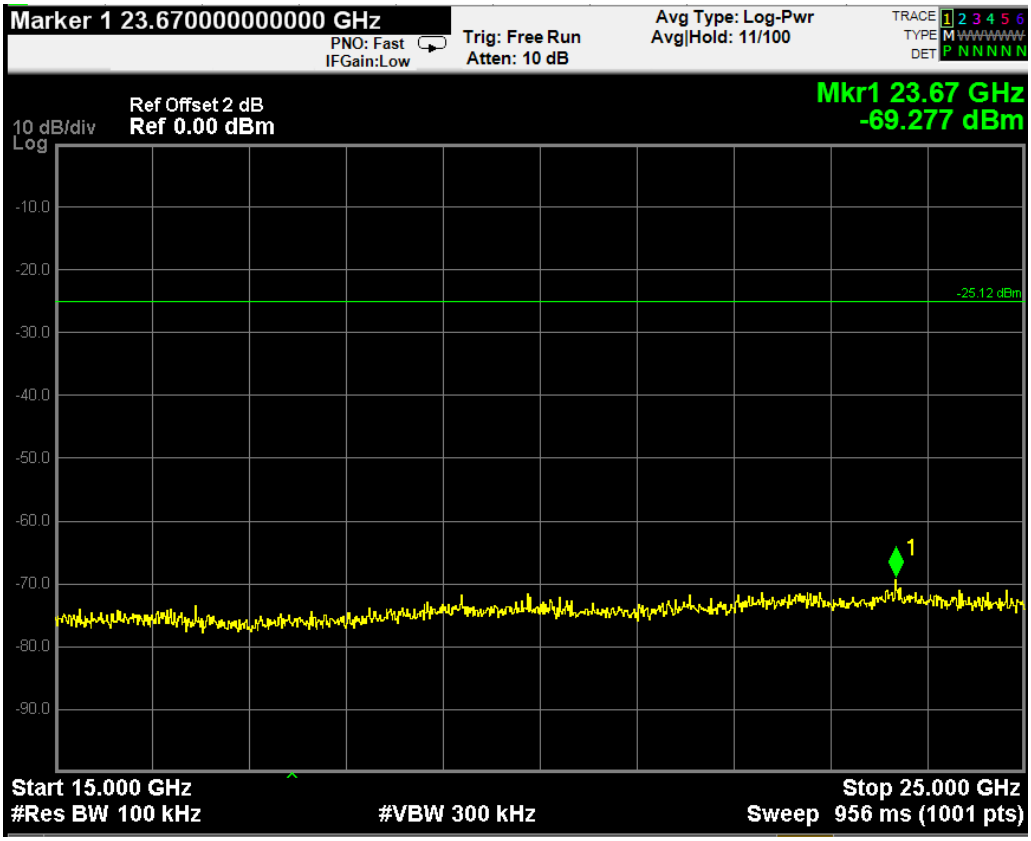
802.11g Ch 06 (2437 MHz) ANT2



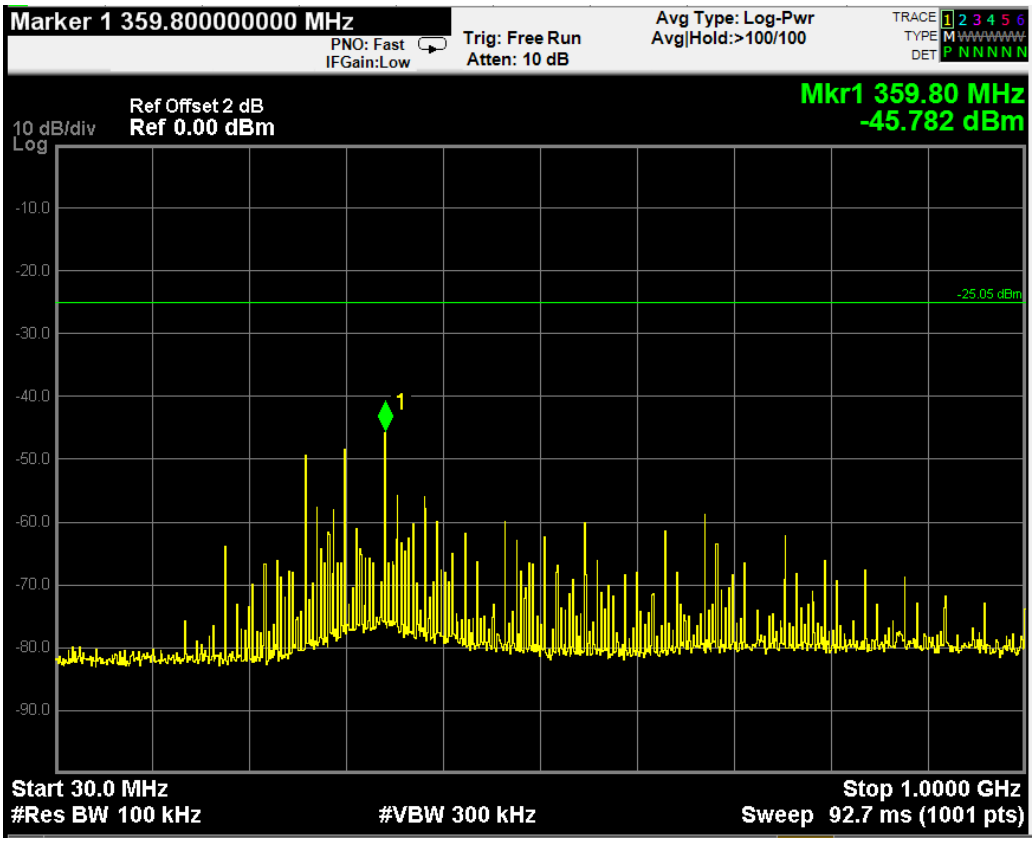


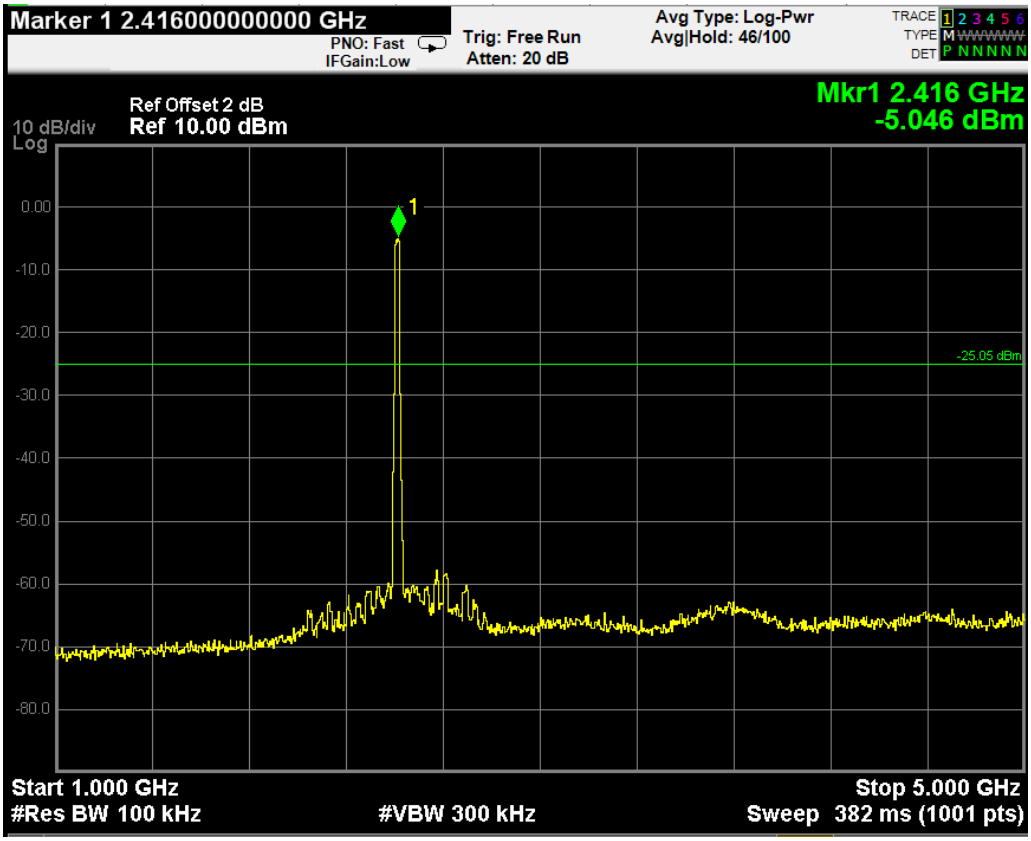

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 39/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-71.662 dBm
-10.0
-20.0
-25.12 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

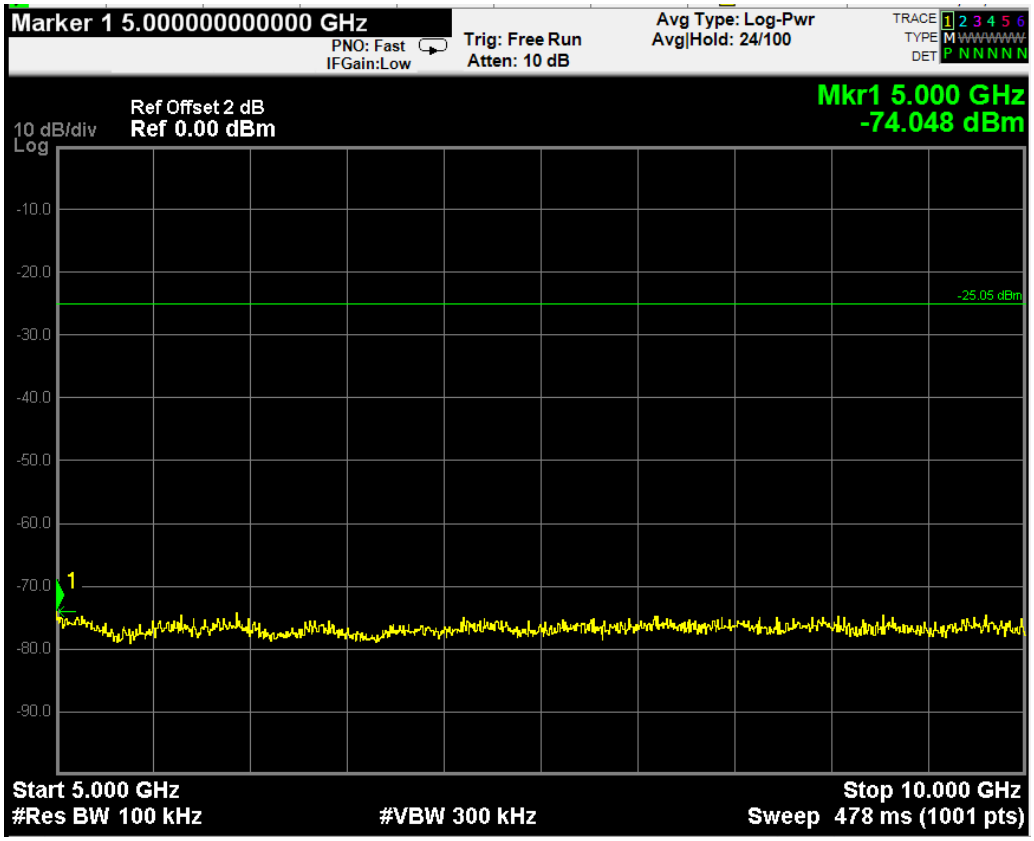

Marker 1 14.480000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.480 GHz
-74.020 dBm
-10.0
-20.0
-25.12 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

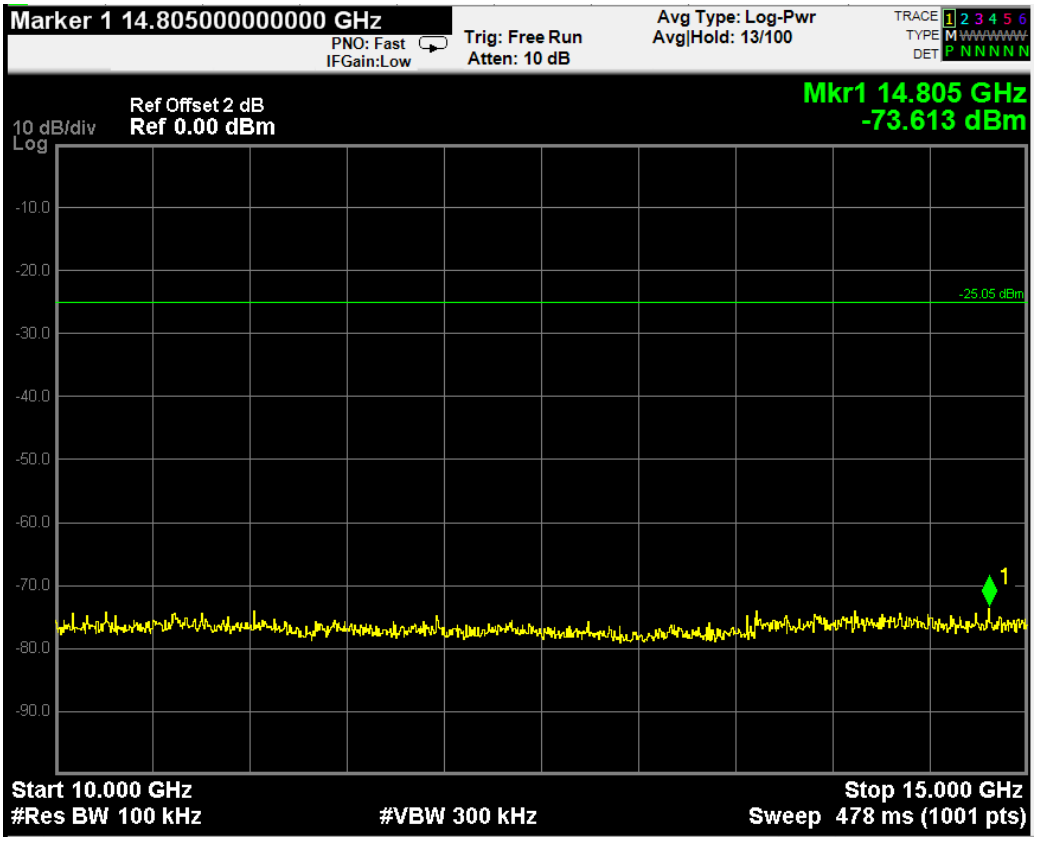

Marker 1 23.670000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.67 GHz
-69.277 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.12 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

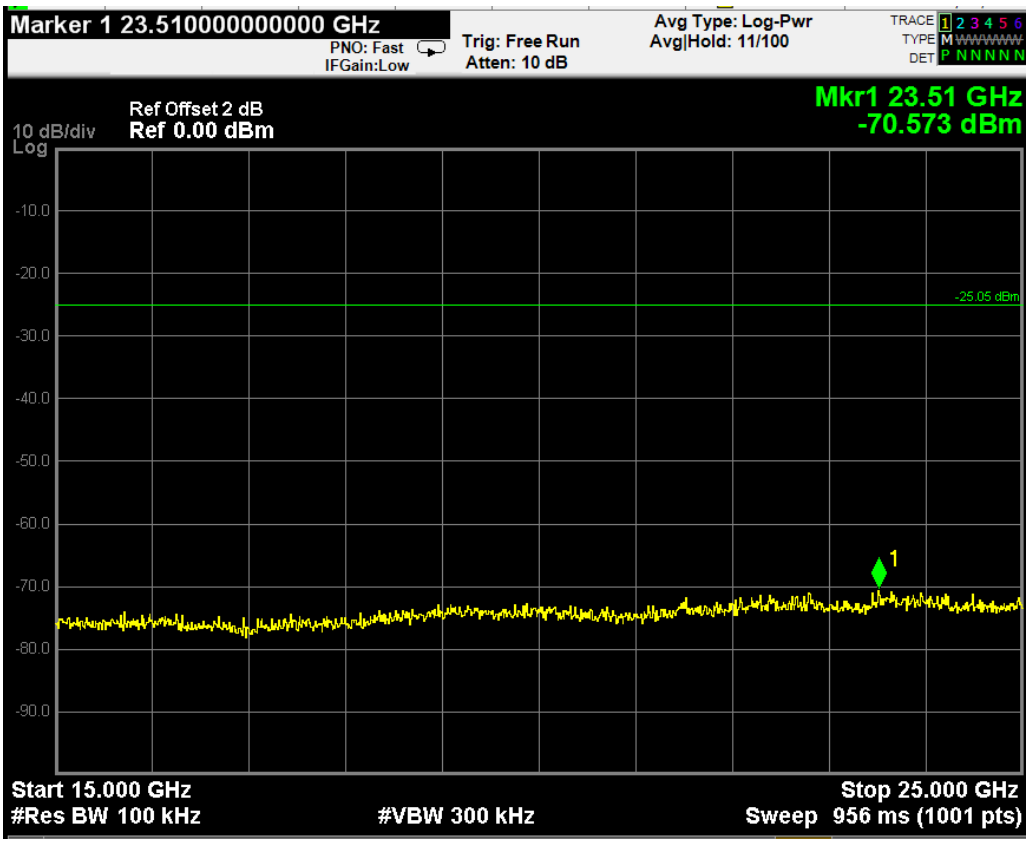
802.11g Ch 11 (2462 MHz) ANT2



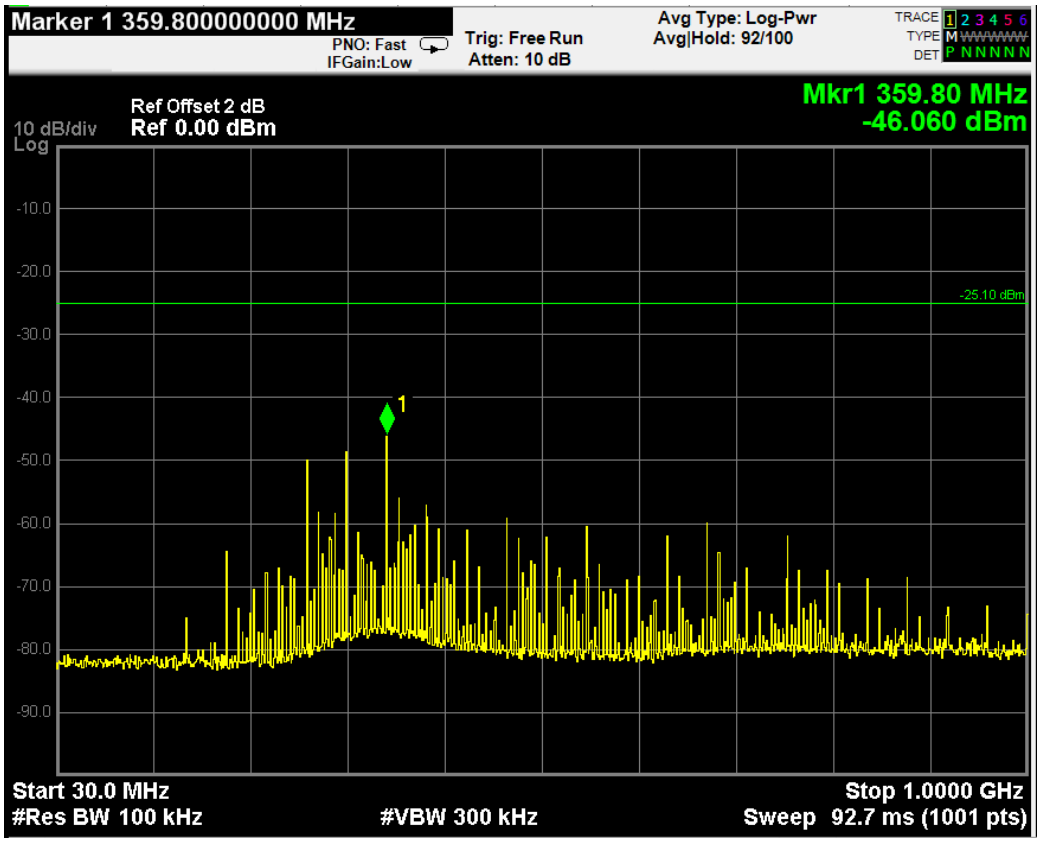


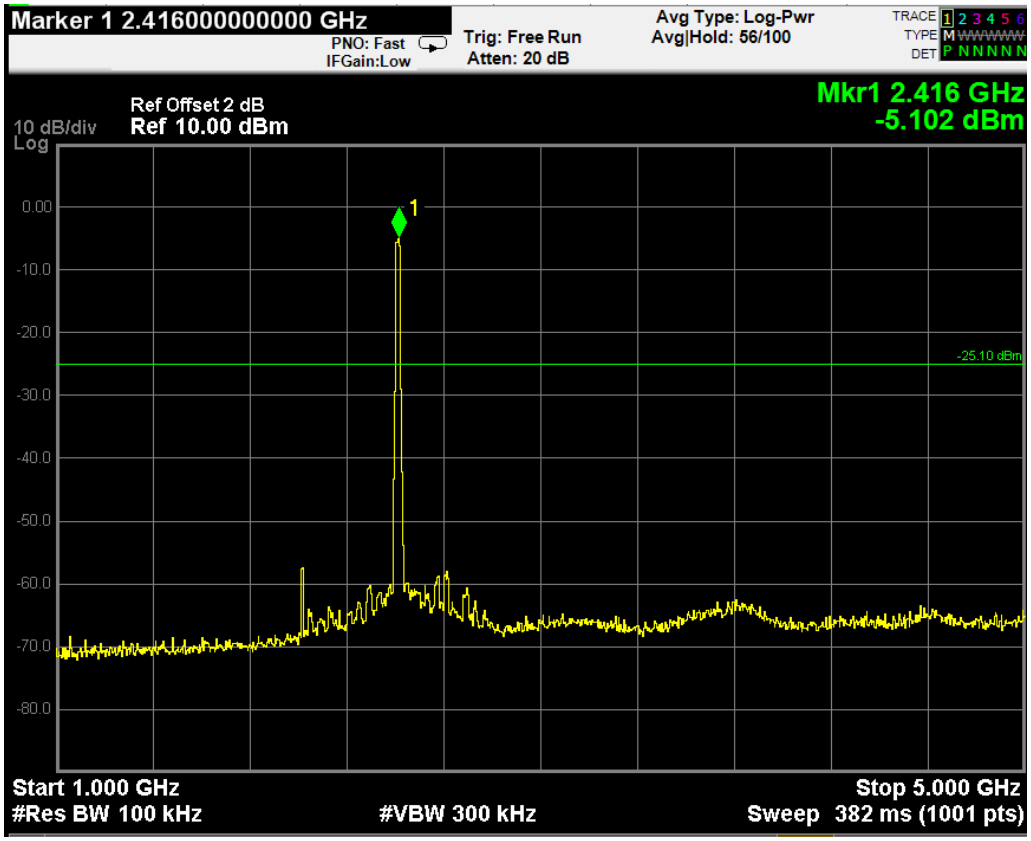

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 24/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-74.048 dBm
-10.0
-20.0
-25.05 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

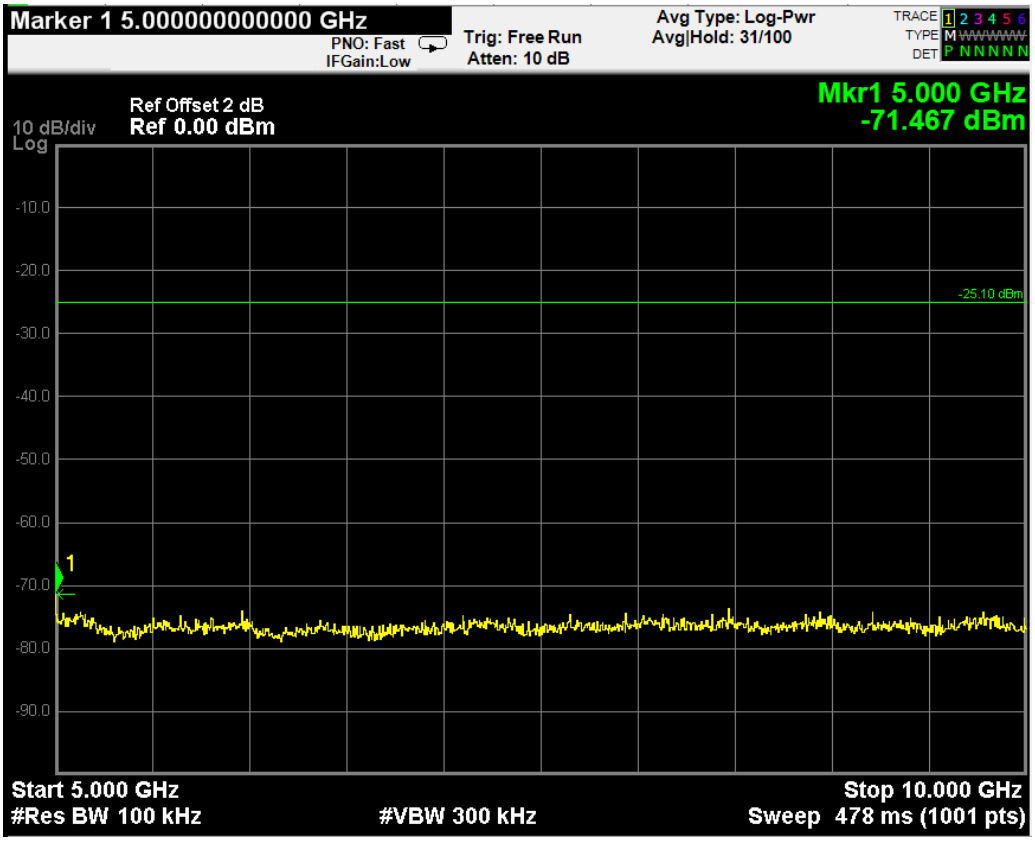

Marker 1 14.805000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 13/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.805 GHz
-73.613 dBm
-10.0
-20.0
-25.05 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

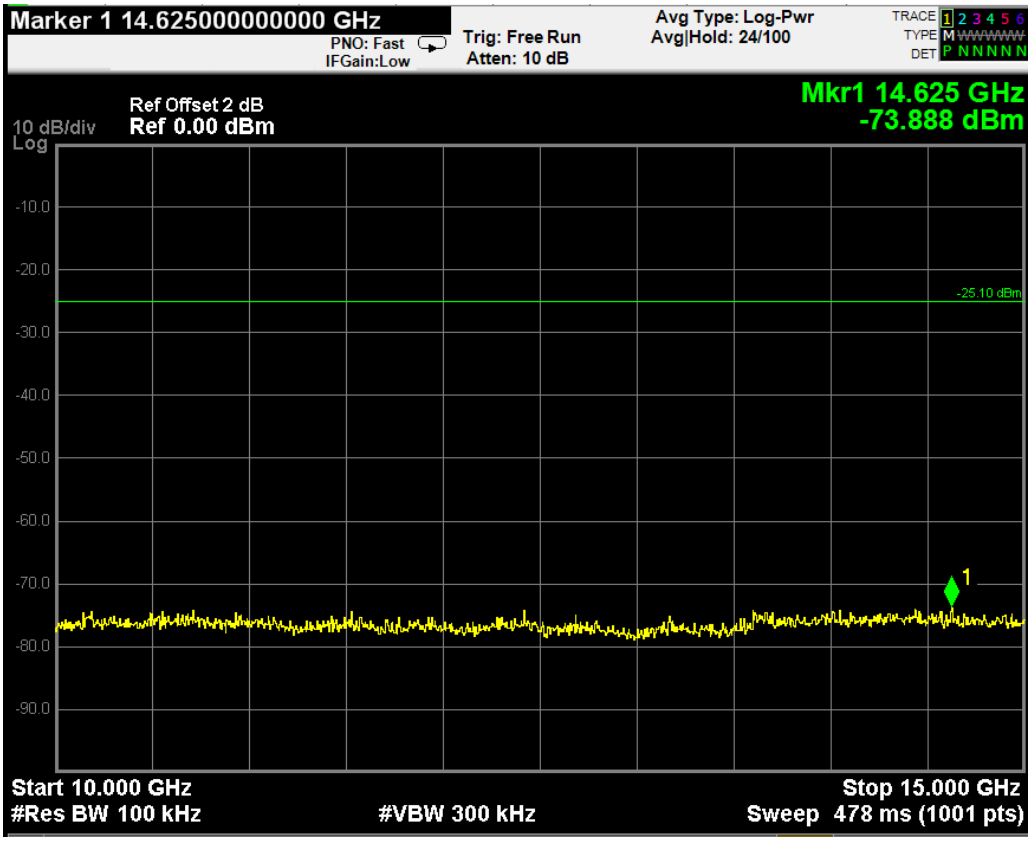

Marker 1 23.510000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 23.51 GHz
-70.573 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.05 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

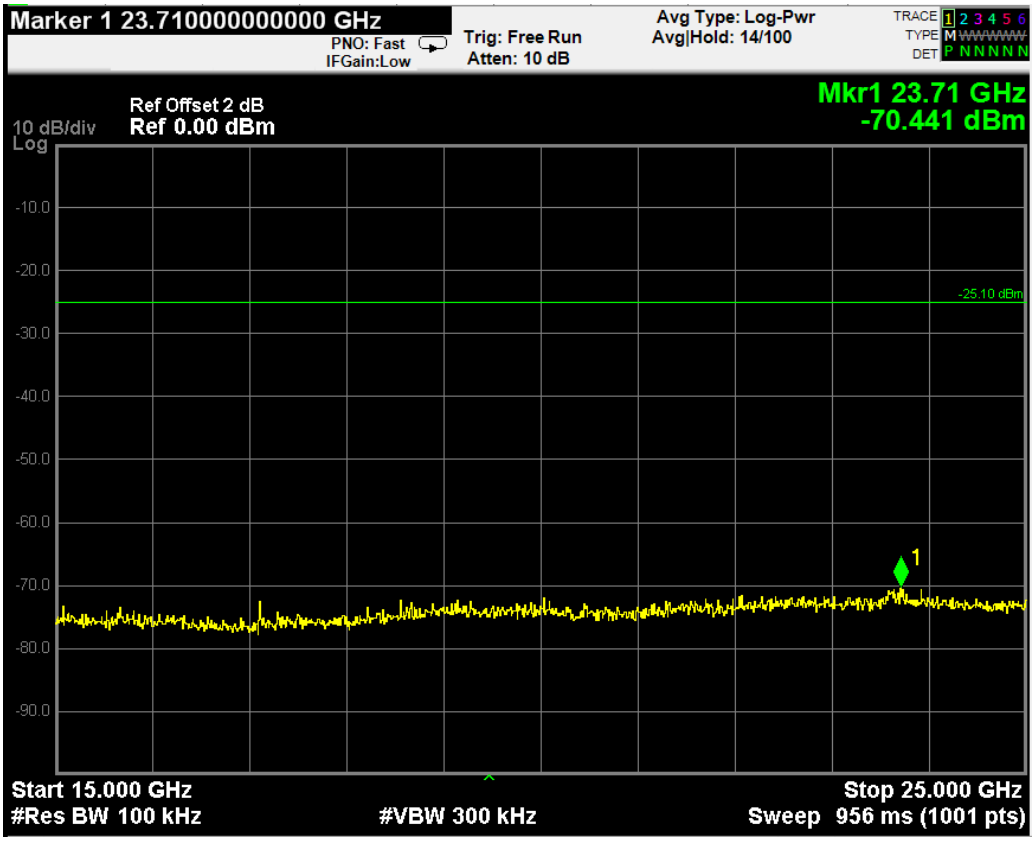
802.11n HT20 Ch 01 (2412 MHz) ANT2



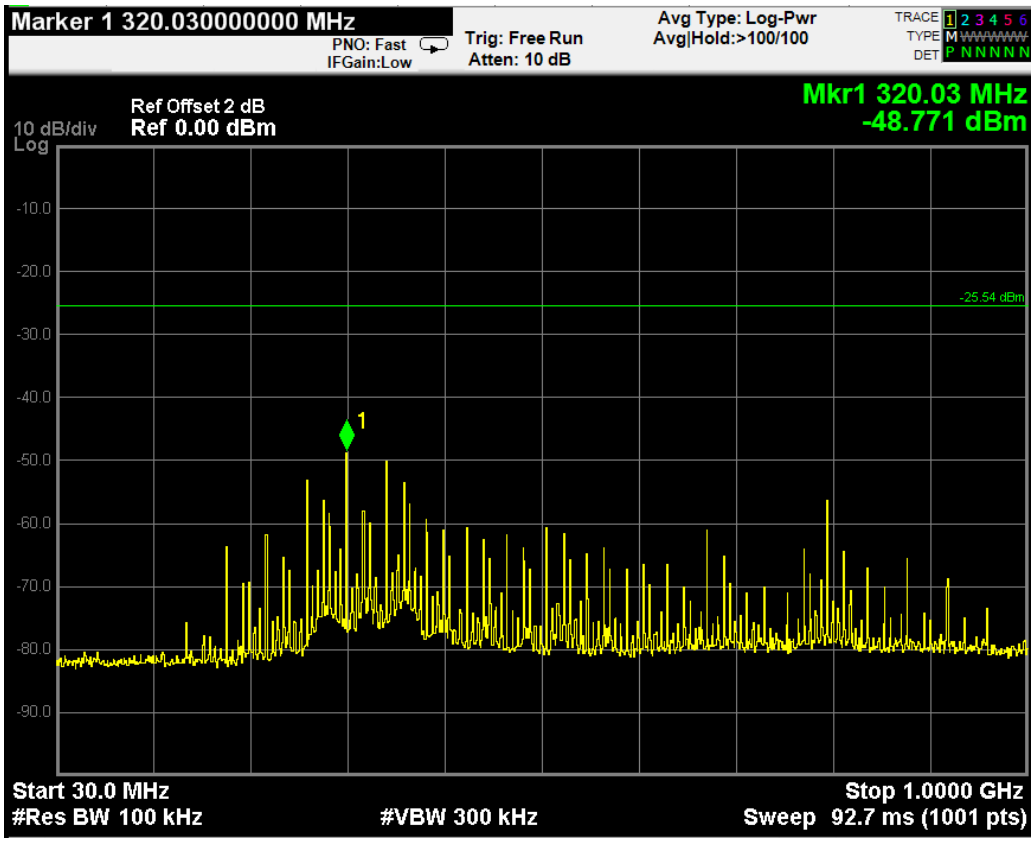


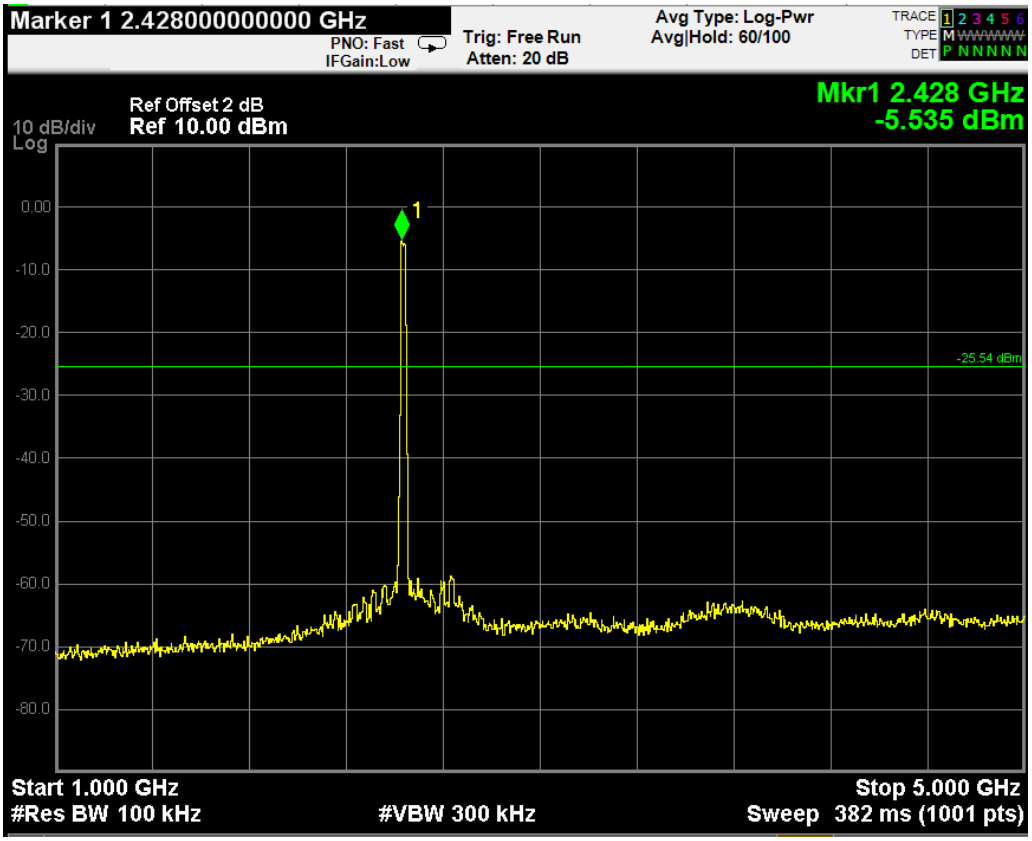

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 31/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-71.467 dBm
-10.0
-20.0
-25.10 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

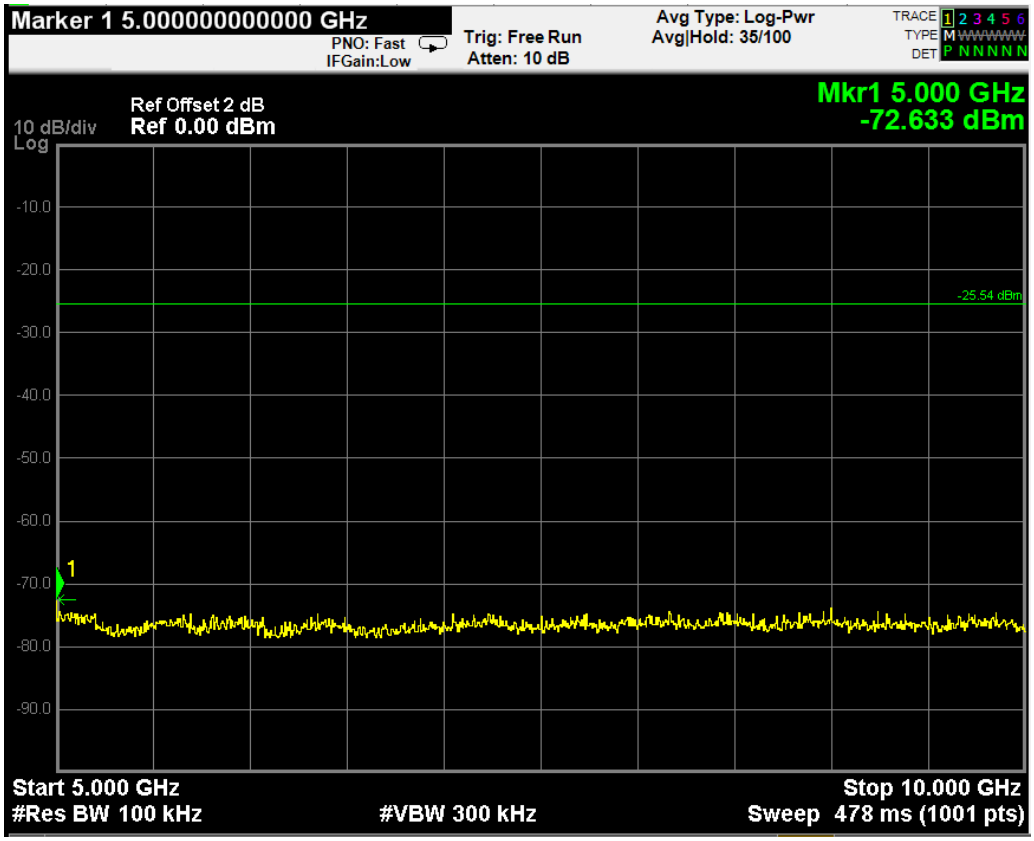

Marker 1 14.625000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 24/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.625 GHz
-73.888 dBm
-10.0
-20.0
-25.10 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

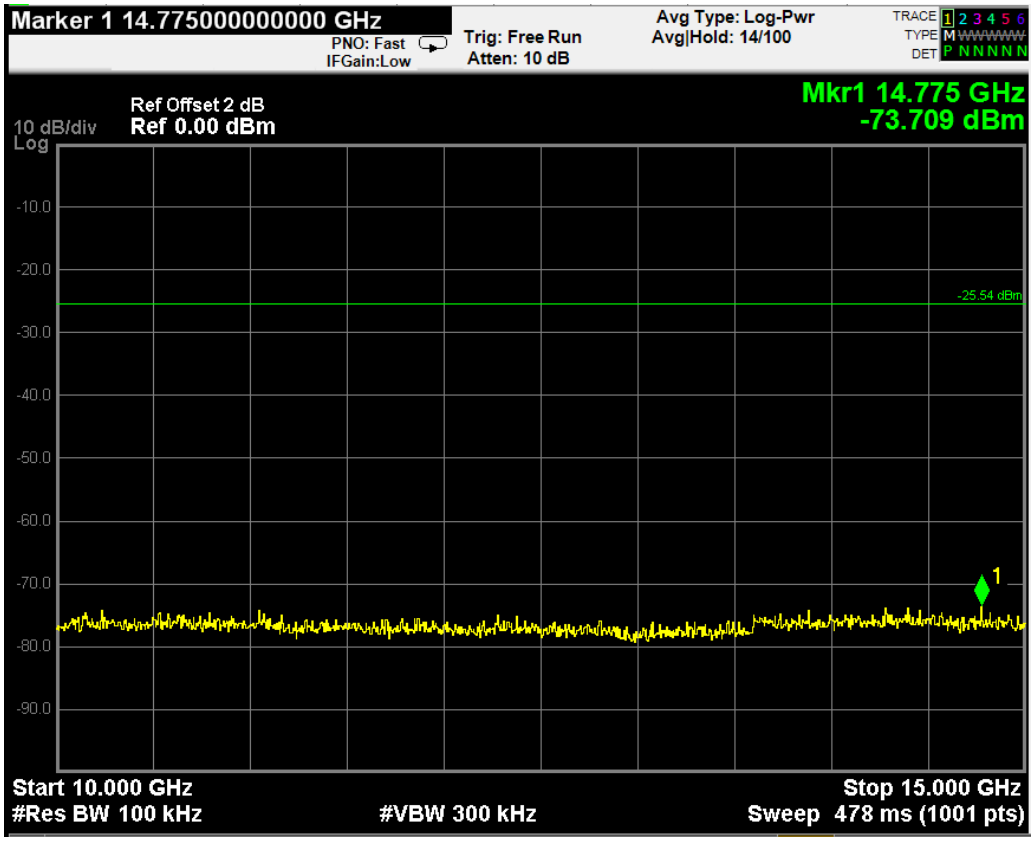

Marker 1 23.710000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 14/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.71 GHz
-70.441 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.10 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

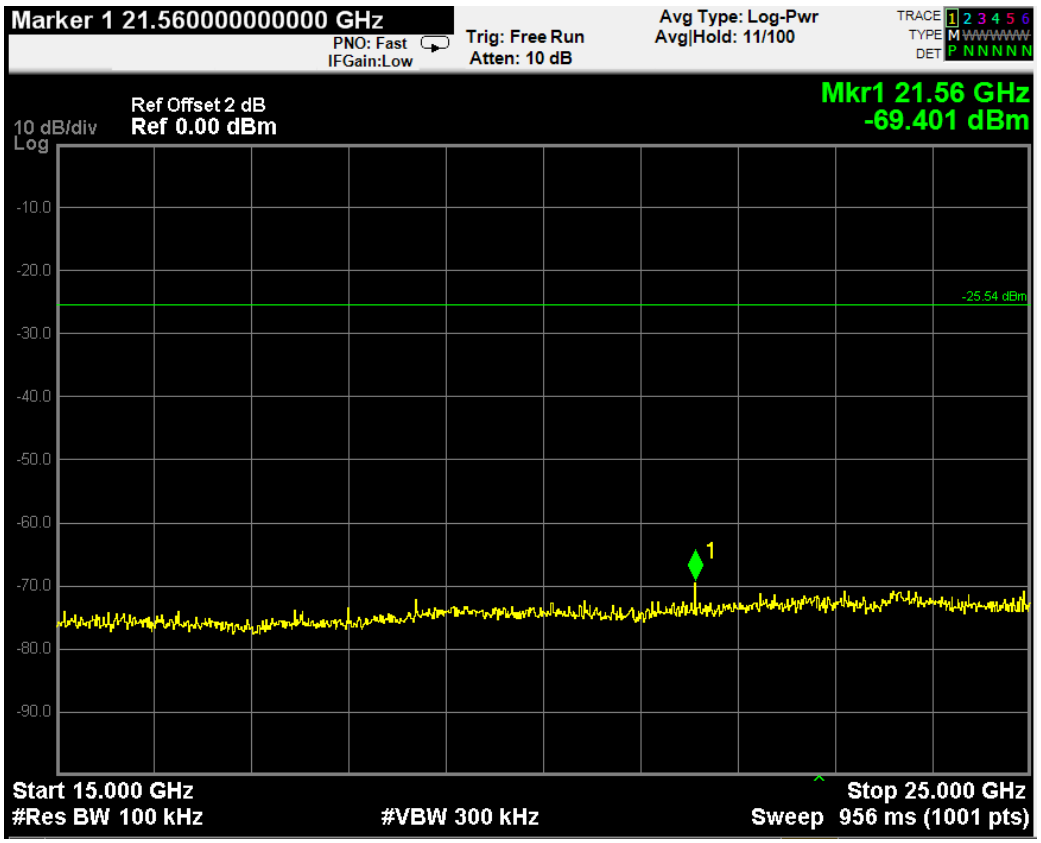
802.11n HT20 Ch 06 (2437 MHz) ANT2



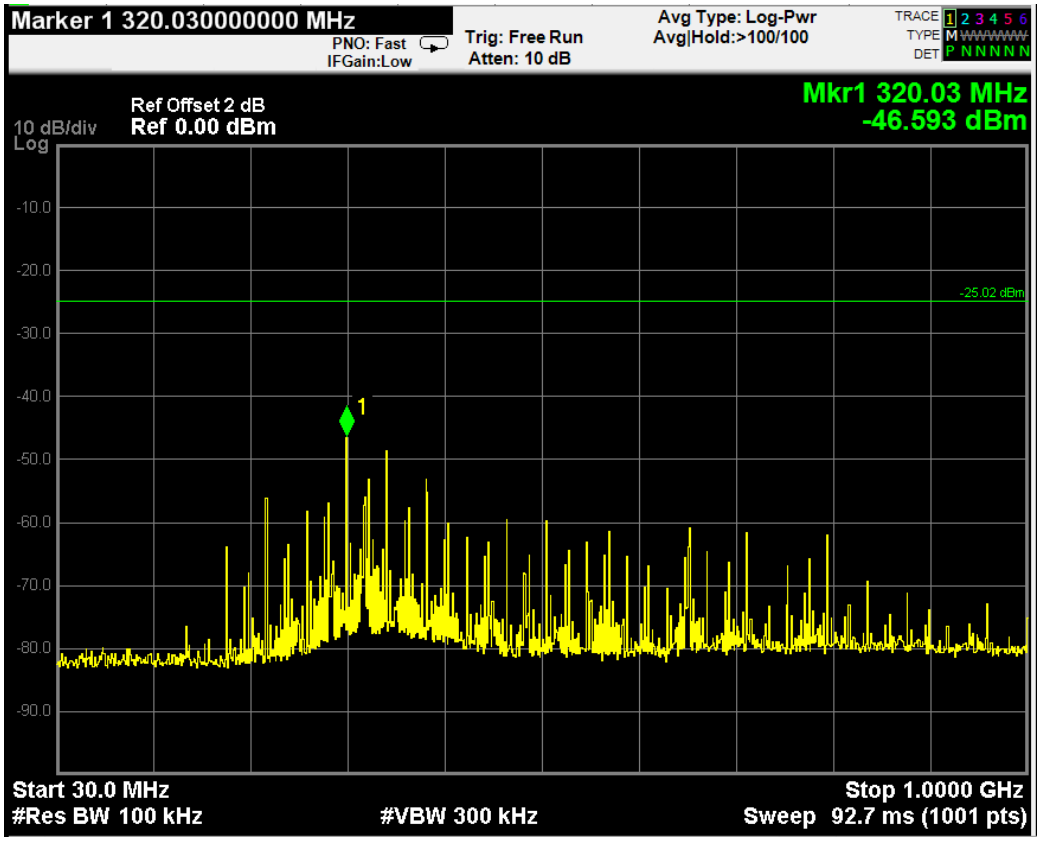


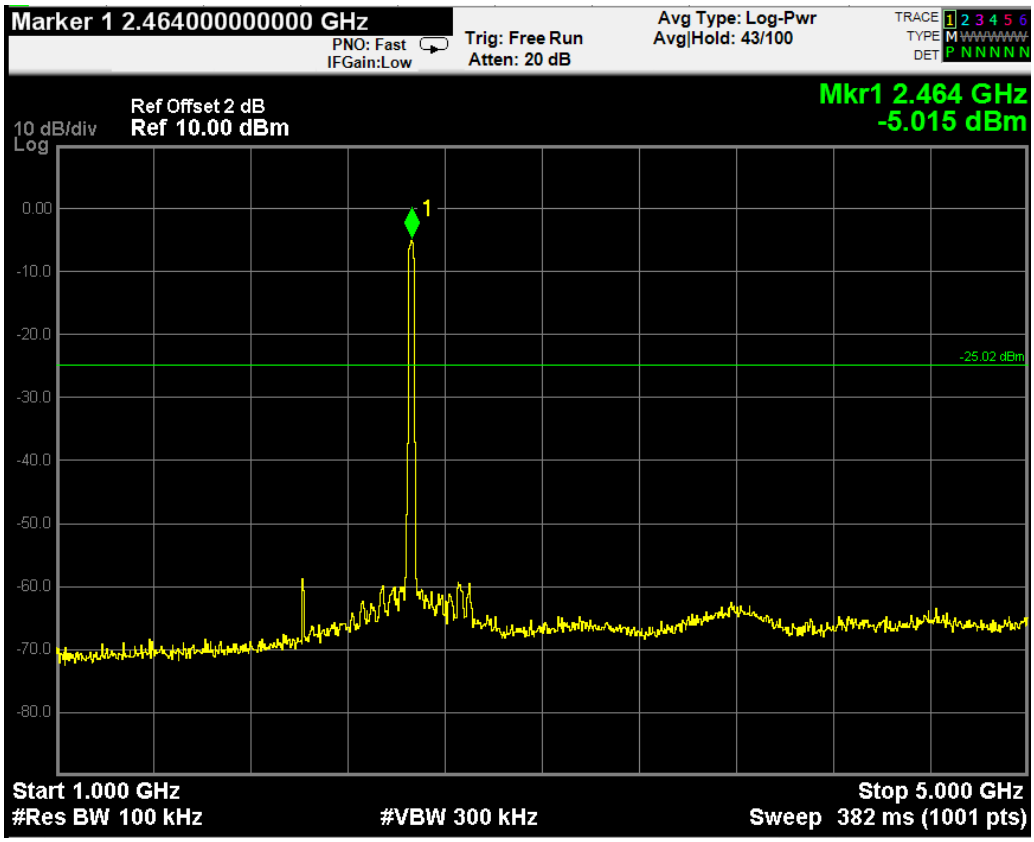

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 35/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-72.633 dBm
-10.0
-20.0
-25.54 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

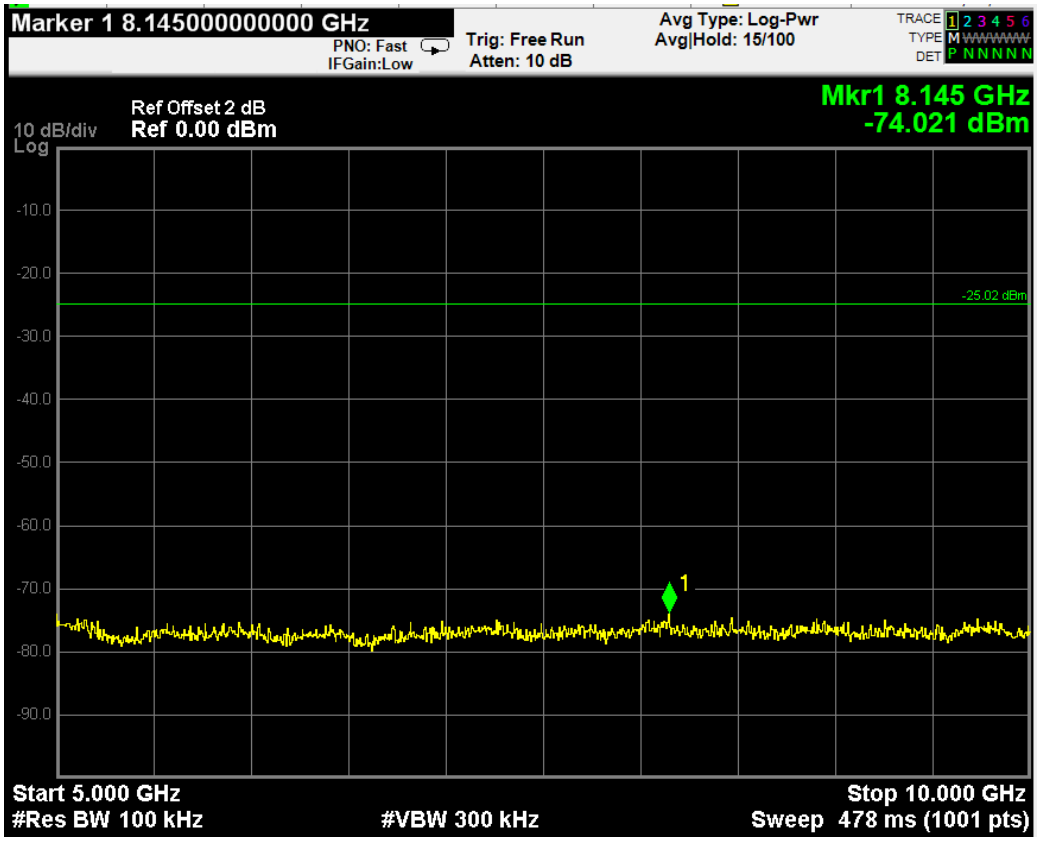

Marker 1 14.775000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 14/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.775 GHz
-73.709 dBm
-10.0
-20.0
-25.54 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

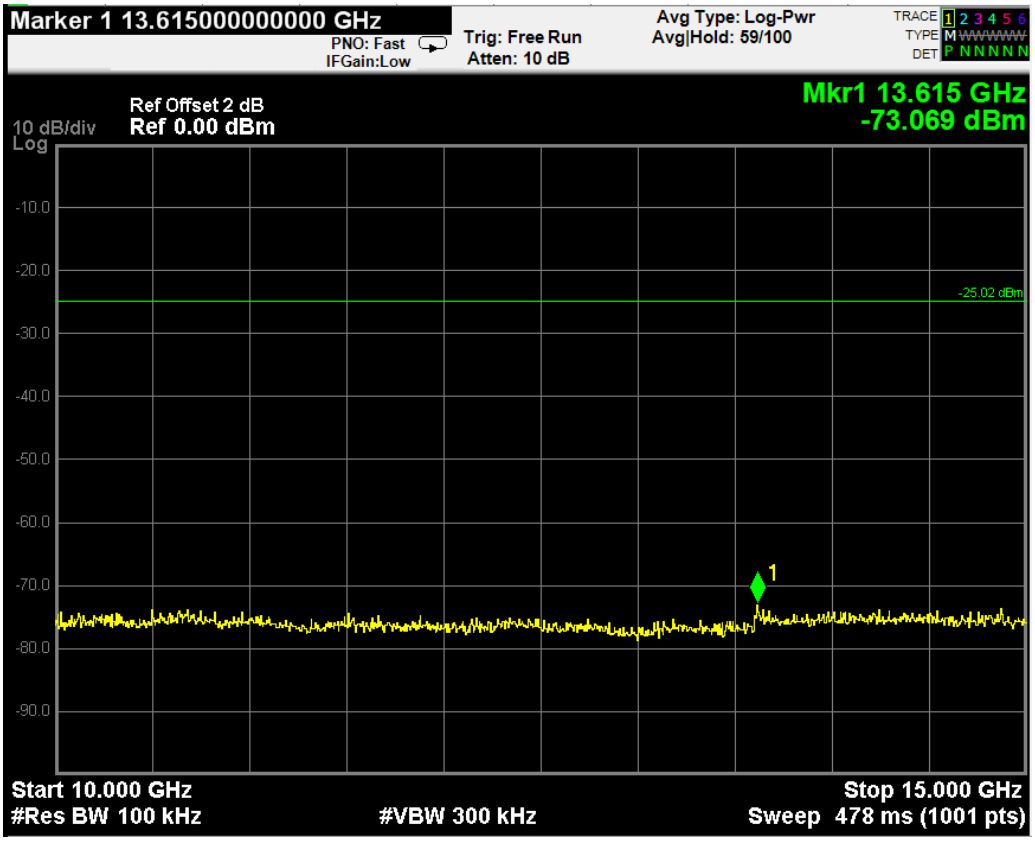

Marker 1 21.560000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 21.56 GHz
-69.401 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.54 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

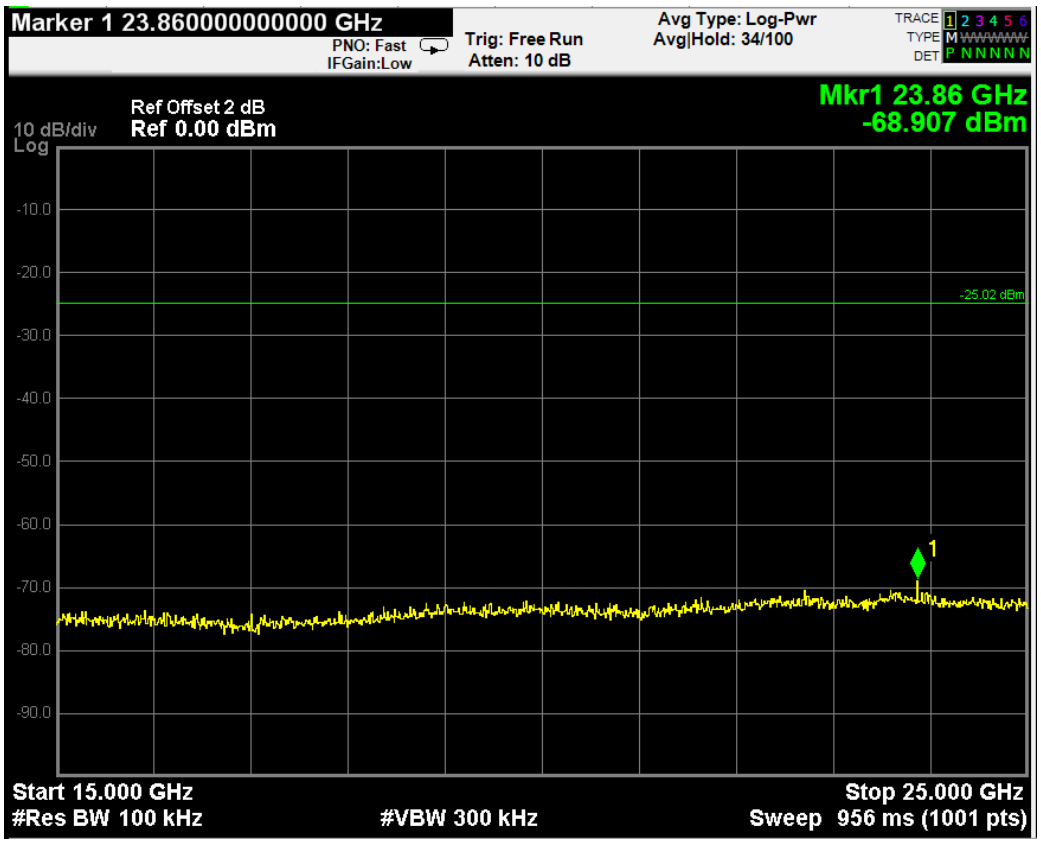
802.11n HT20 Ch 11 (2462 MHz) ANT2



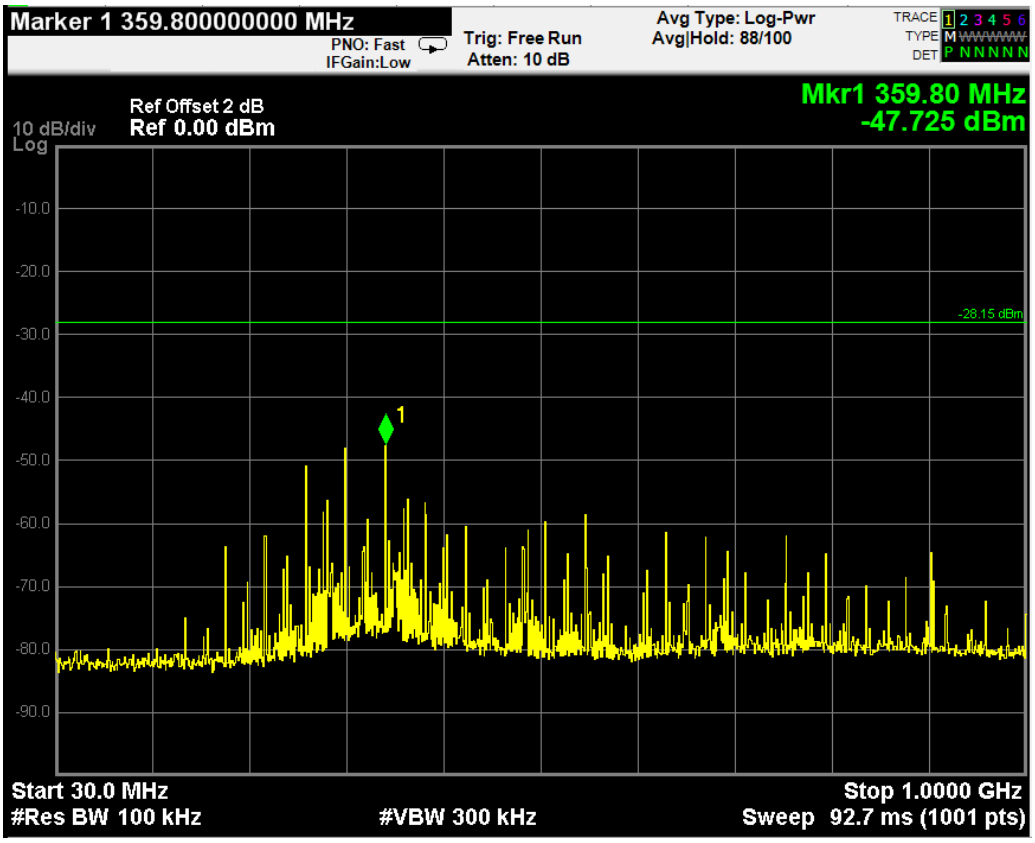


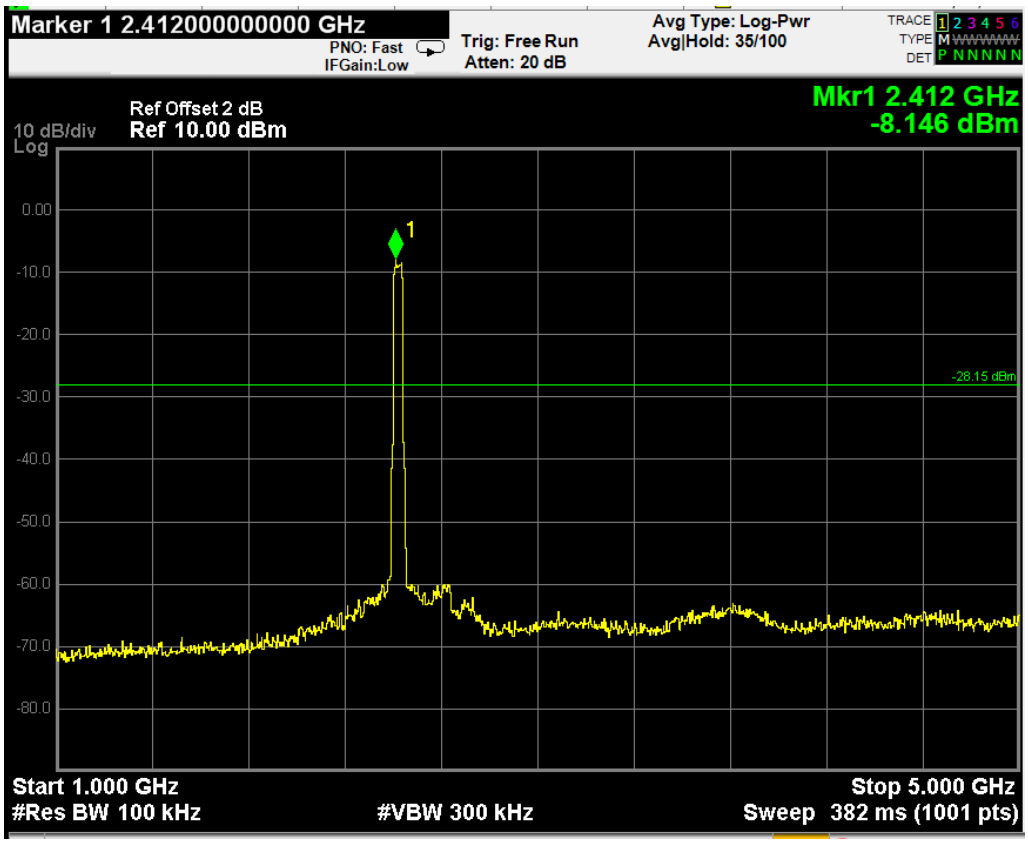

Marker 1 8.145000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 15/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.145 GHz
-74.021 dBm
-10.0
-20.0
-25.02 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

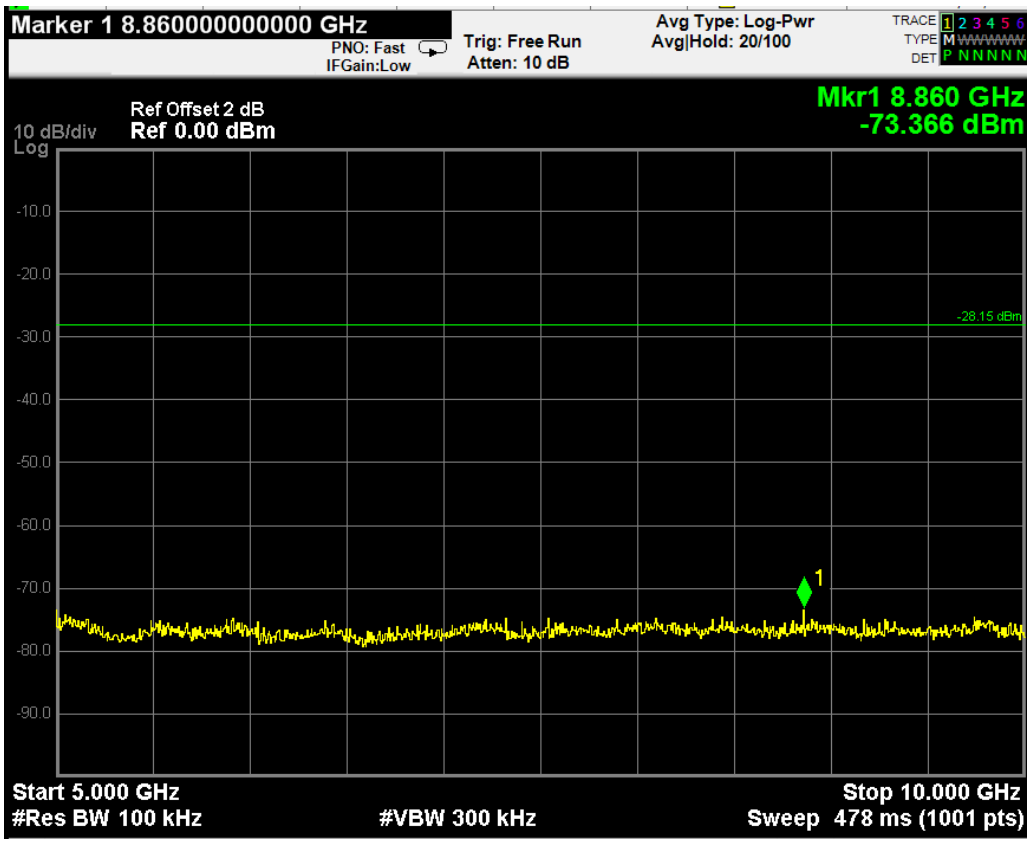

Marker 1 13.615000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 59/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 13.615 GHz
-73.069 dBm
-10.0
-20.0
-25.02 dBm
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

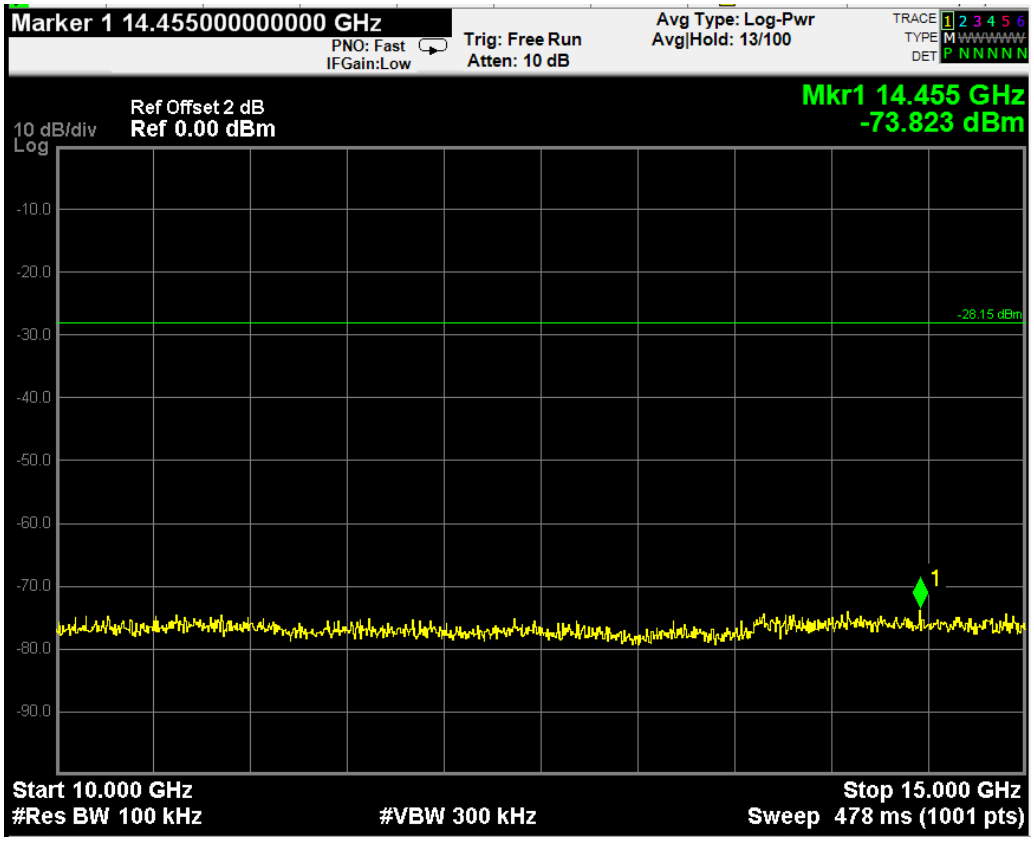

Marker 1 23.860000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.86 GHz
-68.907 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-25.02 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

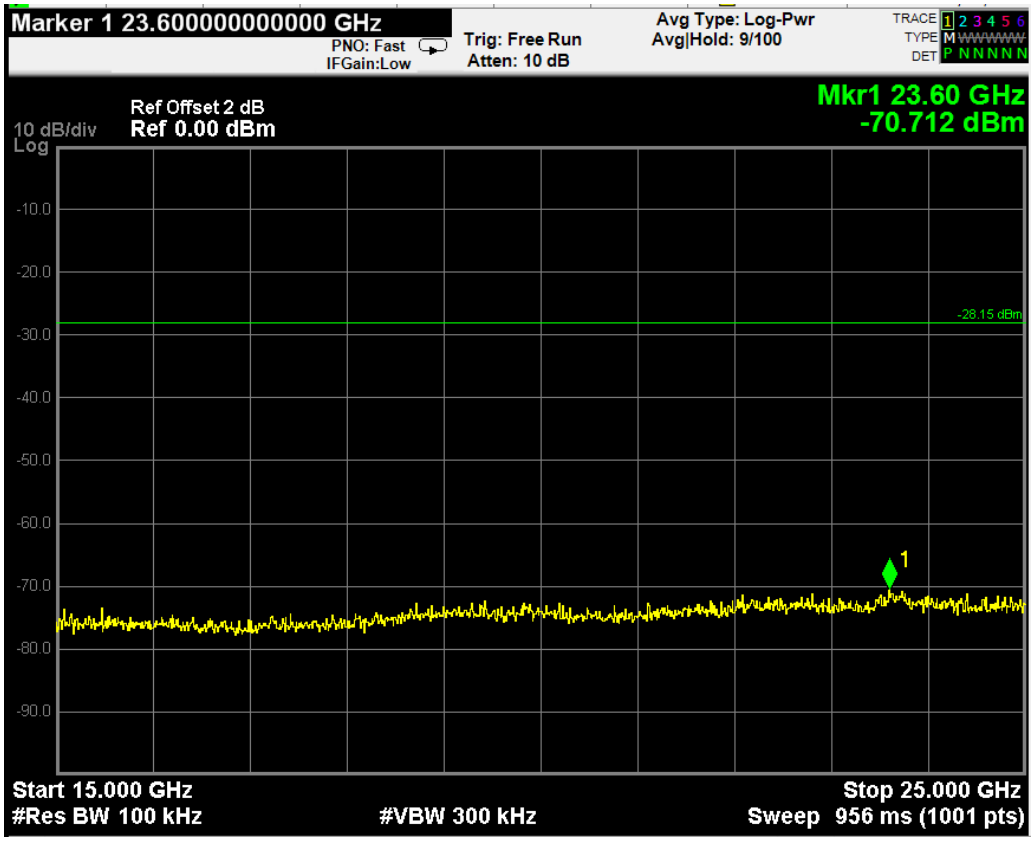
802.11n HT40 Ch 03 (2422 MHz) ANT2



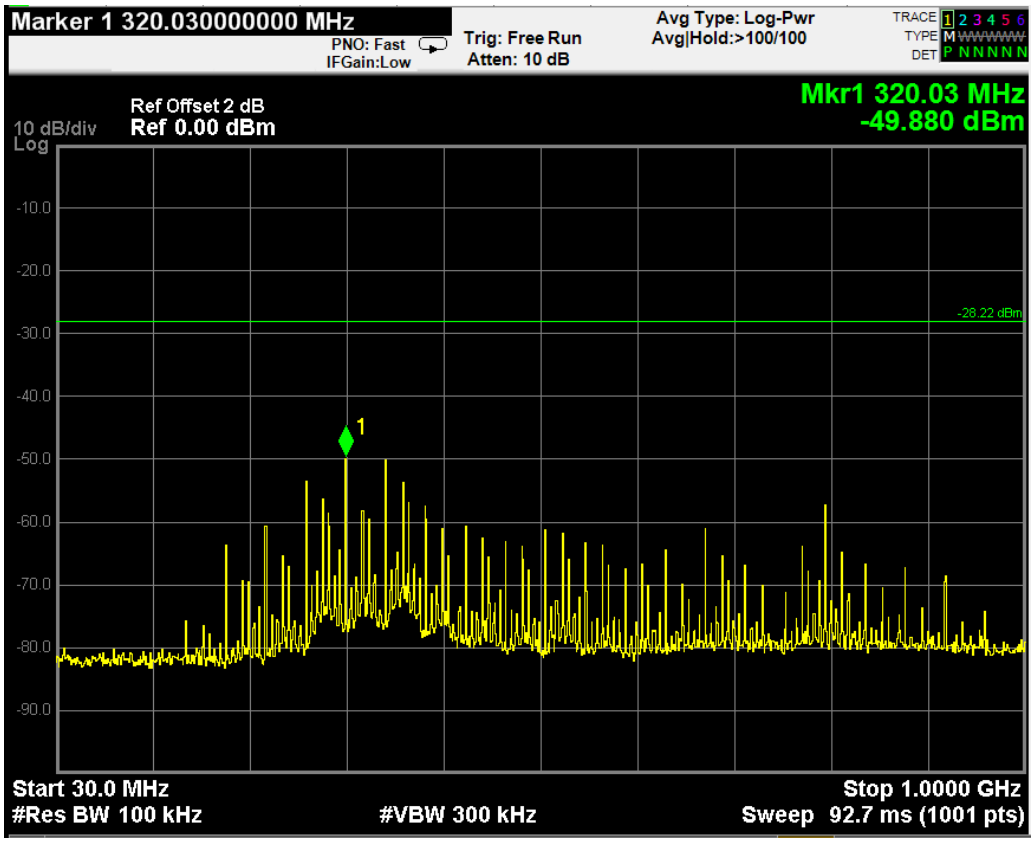


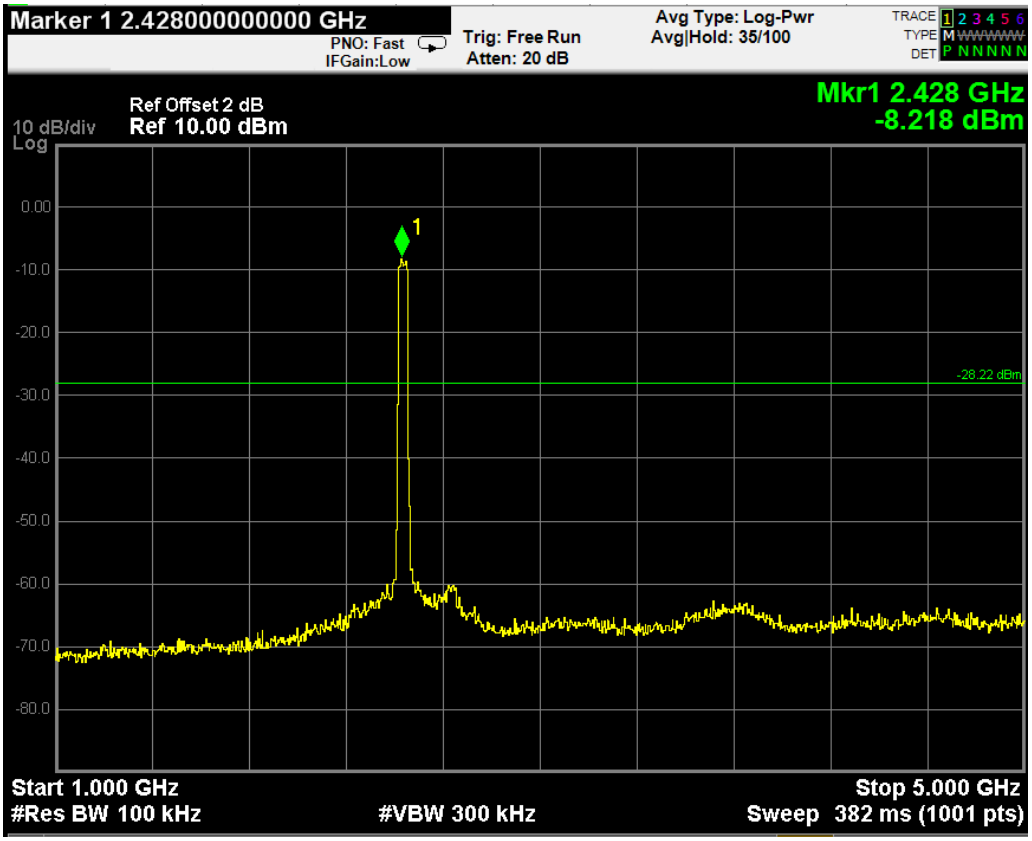

Marker 1 8.860000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 20/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 8.860 GHz
-73.366 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.15 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

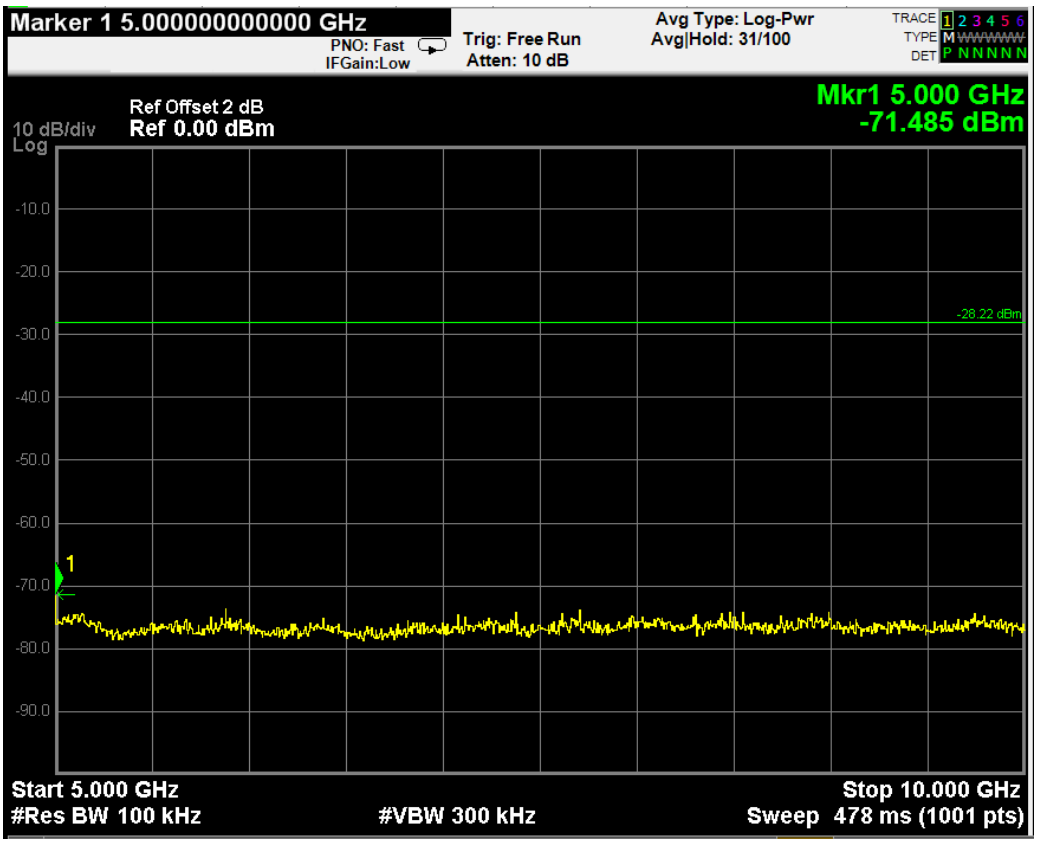

Marker 1 14.455000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 13/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.455 GHz
-73.823 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.15 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

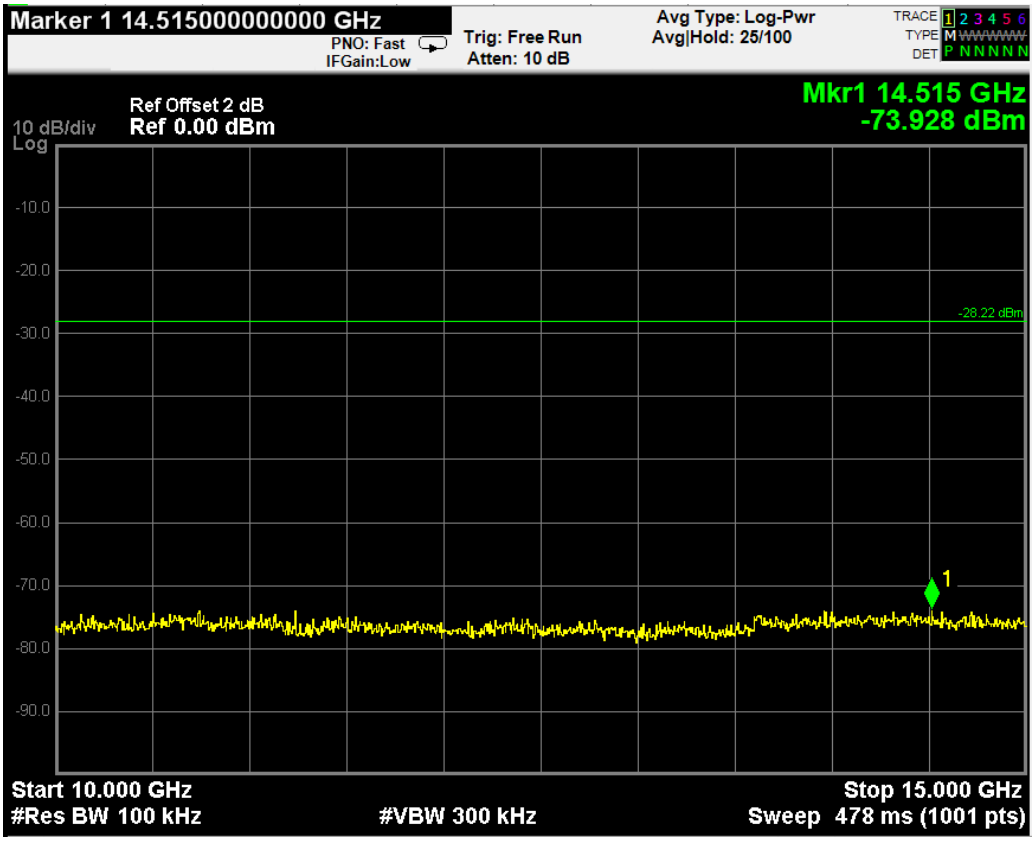

Marker 1 23.600000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 9/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.60 GHz
-70.712 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.15 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

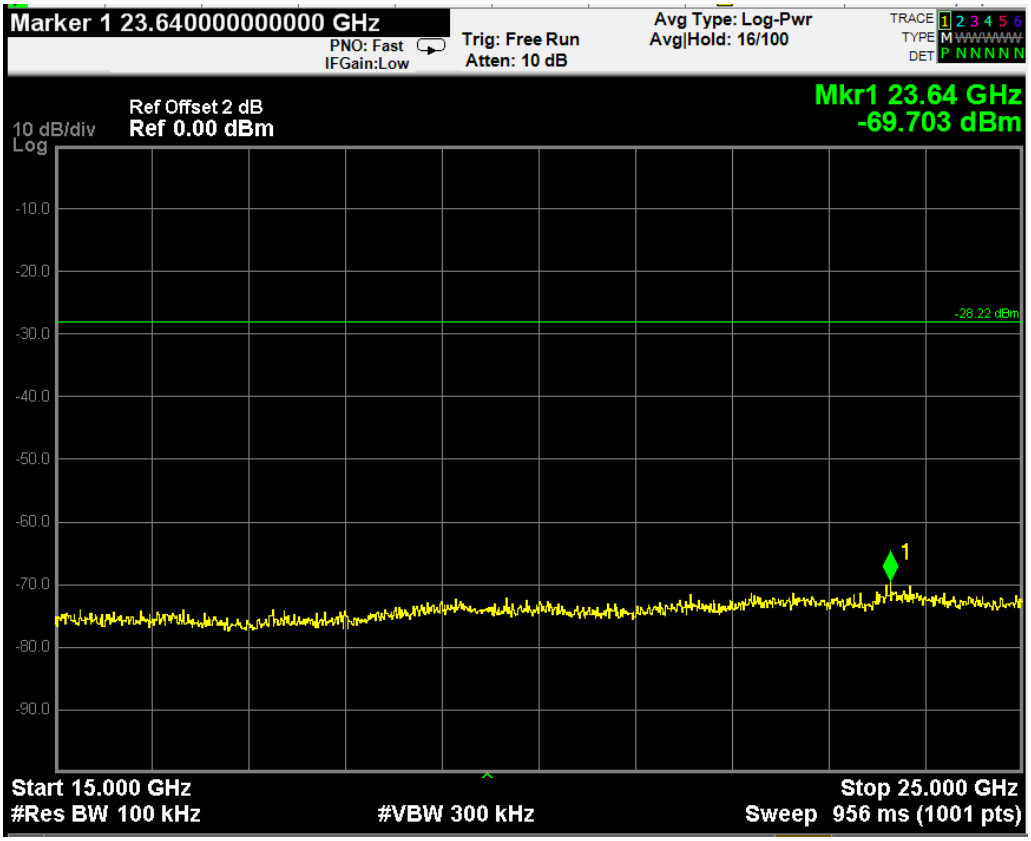
802.11n HT40 Ch 06 (2437 MHz) ANT2



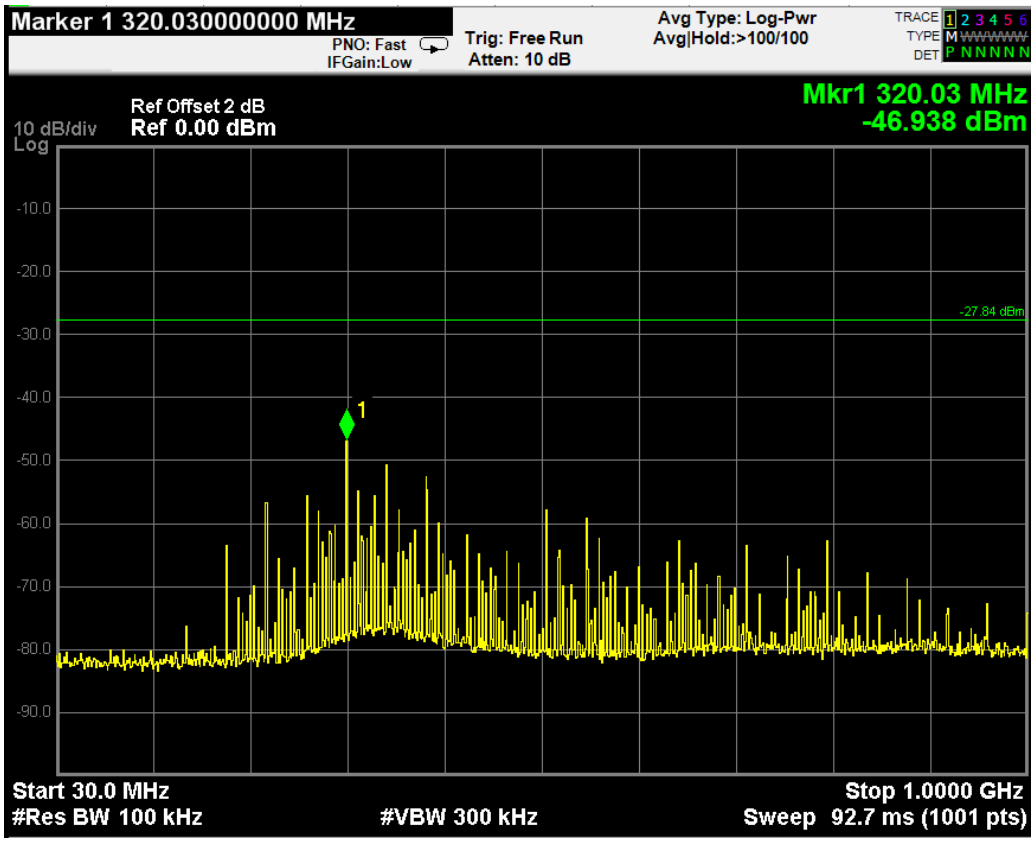


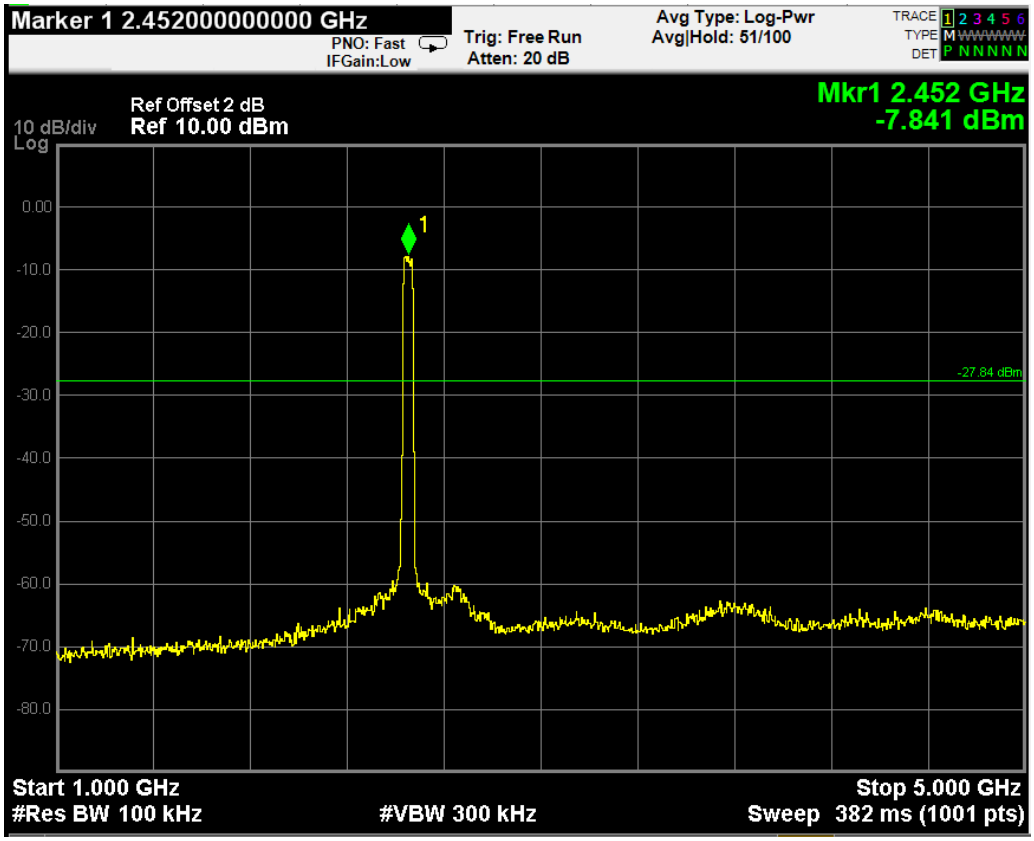

Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 31/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-71.485 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.22 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)

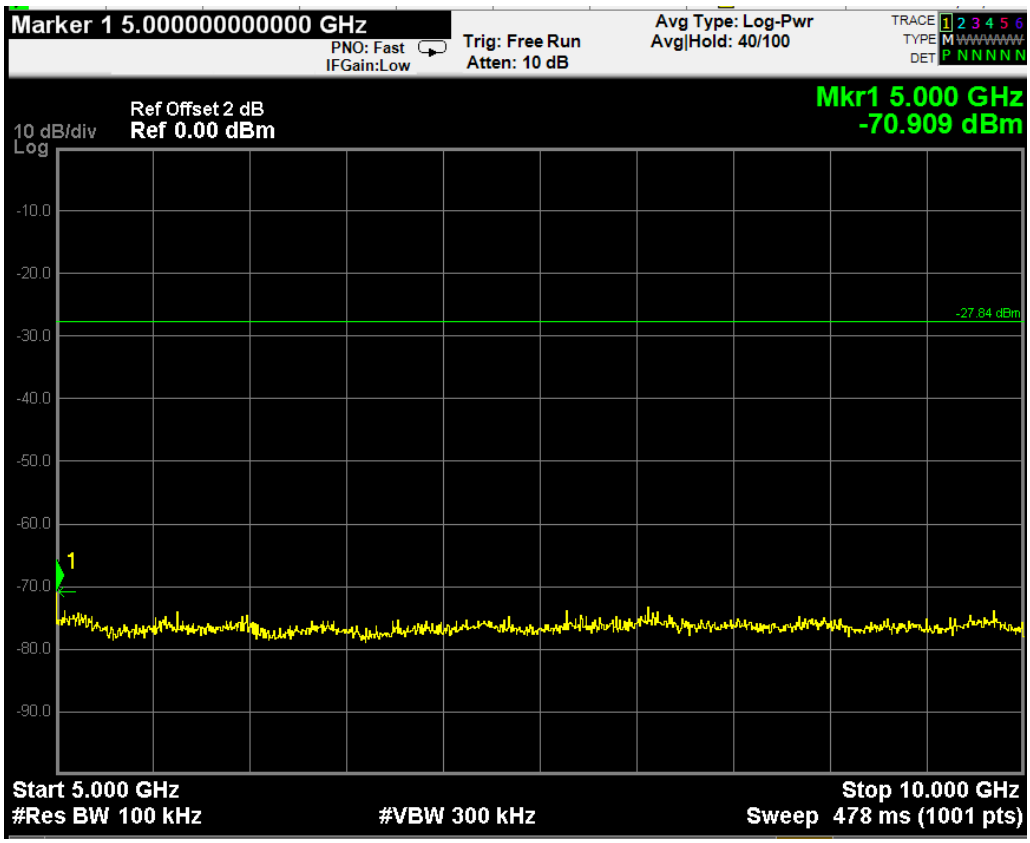

Marker 1 14.515000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 25/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 14.515 GHz
-73.928 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.22 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)

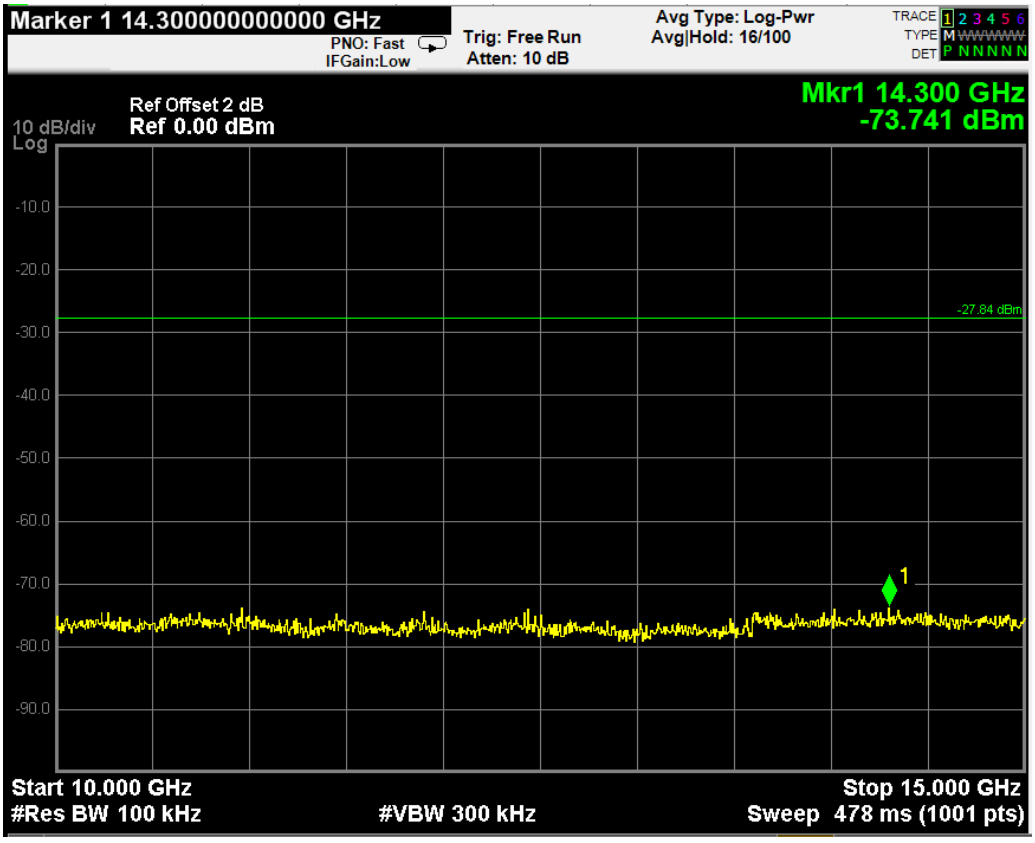

Marker 1 23.640000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 16/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 23.64 GHz
-69.703 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-28.22 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

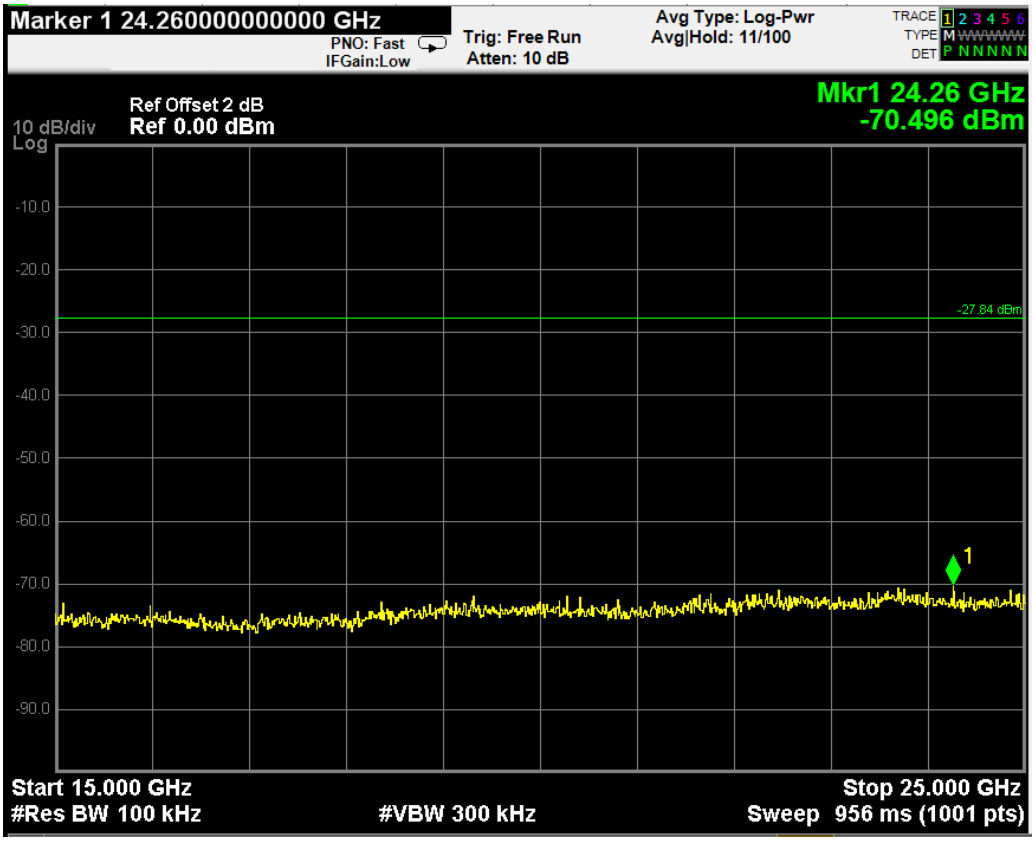
802.11n HT40 Ch 09 (2452 MHz) ANT2






Marker 1 5.000000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 40/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 5.000 GHz
-70.909 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-27.84 dBm
1
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 478 ms (1001 pts)


Marker 1 14.300000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 16/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div Ref 0.00 dBm
Log
Mkr1 14.300 GHz
-73.741 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-27.84 dBm
1
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 478 ms (1001 pts)


Marker 1 24.260000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 11/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 2 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 24.26 GHz
-70.496 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-27.84 dBm
1
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 956 ms (1001 pts)

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.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 13, 2014

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 “MP_TEST” was used to enable the EUT to transmit and receive data at different channel frequency individually.

8.5 Test Procedure

The transmitter output was connected to the Test Receiver. Set RBW of Test Receiver to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.
The test procedure is defined in KDB558074 D01 v03r01 (the 11.3 Emission Level Measurement was used).

8.6 Test Results

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

(Test Date: May 16, 2014 Temperature: 26℃ Humidity: 46 %)

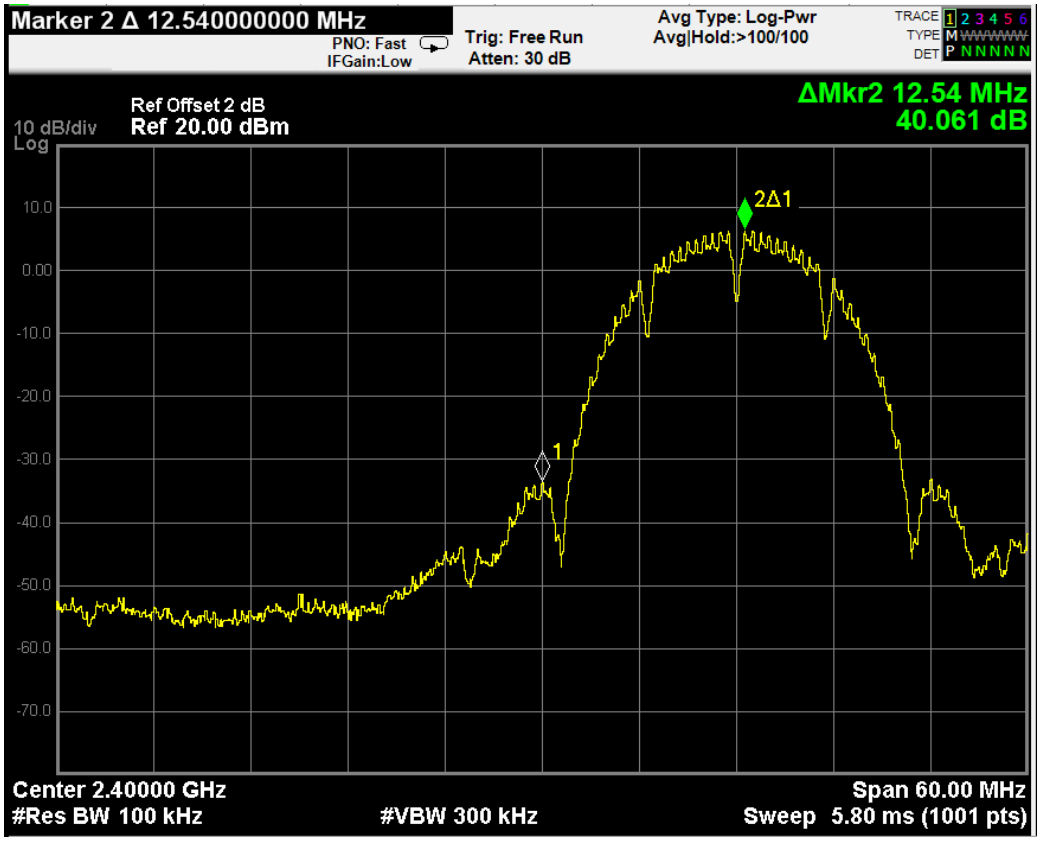
ANT1

Modulation	Location	Channel	Frequency	**Delta Marker**	Result
802.11b	Below Band Edge	01	2412 MHz	**40.061 dB**	More than **20 dB** below the highest level of the desired power
	Upper Band Edge	11	2462 MHz	**56.205 dB**	
802.11g	Below Band Edge	01	2412 MHz	**32.771 dB**	
	Upper Band Edge	11	2462 MHz	**50.015 dB**	
802.11n HT20	Below Band Edge	01	2412 MHz	**30.952 dB**	
	Upper Band Edge	11	2462 MHz	**49.589 dB**	
802.11n HT40	Below Band Edge	03	2422 MHz	**30.422 dB**	
	Upper Band Edge	09	2452 MHz	**42.907 dB**	

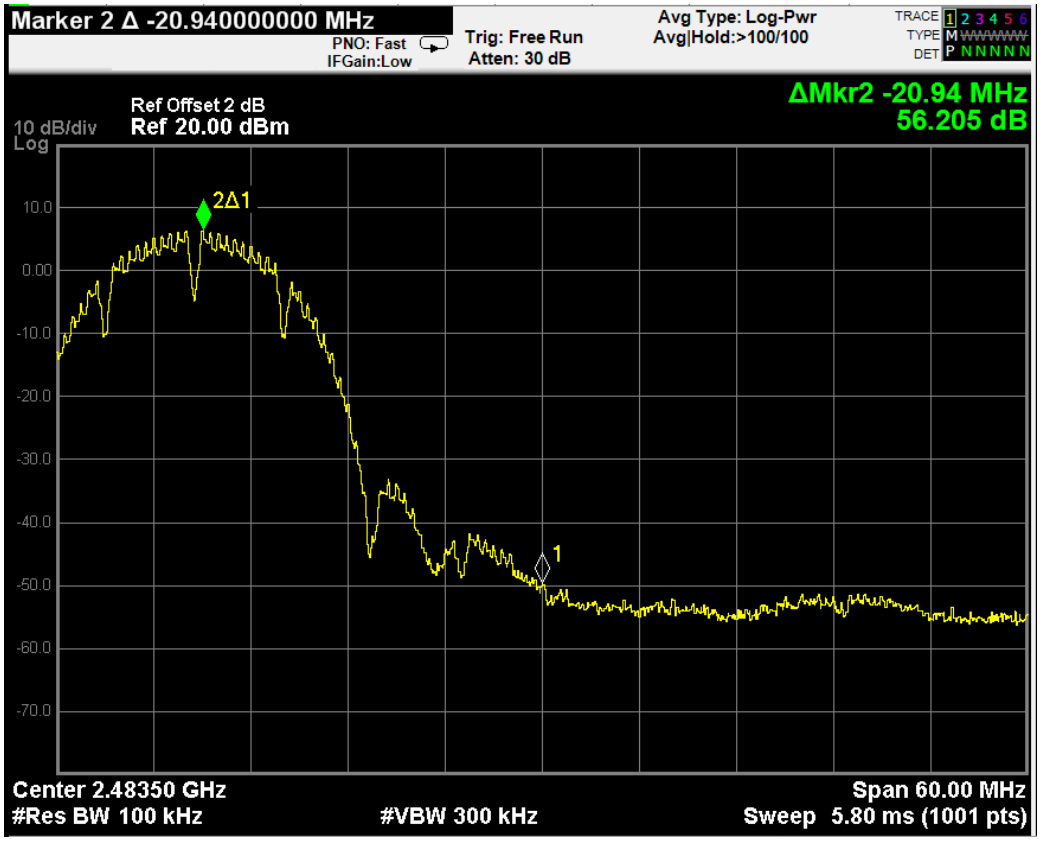
ANT2

Modulation	Location	Channel	Frequency	**Delta Marker**	Result
802.11b	Below Band Edge	01	2412 MHz	**40.747 dB**	More than **20 dB** below the highest level of the desired power
	Upper Band Edge	11	2462 MHz	**56.801 dB**	
802.11g	Below Band Edge	01	2412 MHz	**30.782 dB**	
	Upper Band Edge	11	2462 MHz	**53.690 dB**	
802.11n HT20	Below Band Edge	01	2412 MHz	**30.650 dB**	
	Upper Band Edge	11	2462 MHz	**52.322 dB**	
802.11n HT40	Below Band Edge	03	2422 MHz	**31.420 dB**	
	Upper Band Edge	09	2452 MHz	**48.526 dB**	

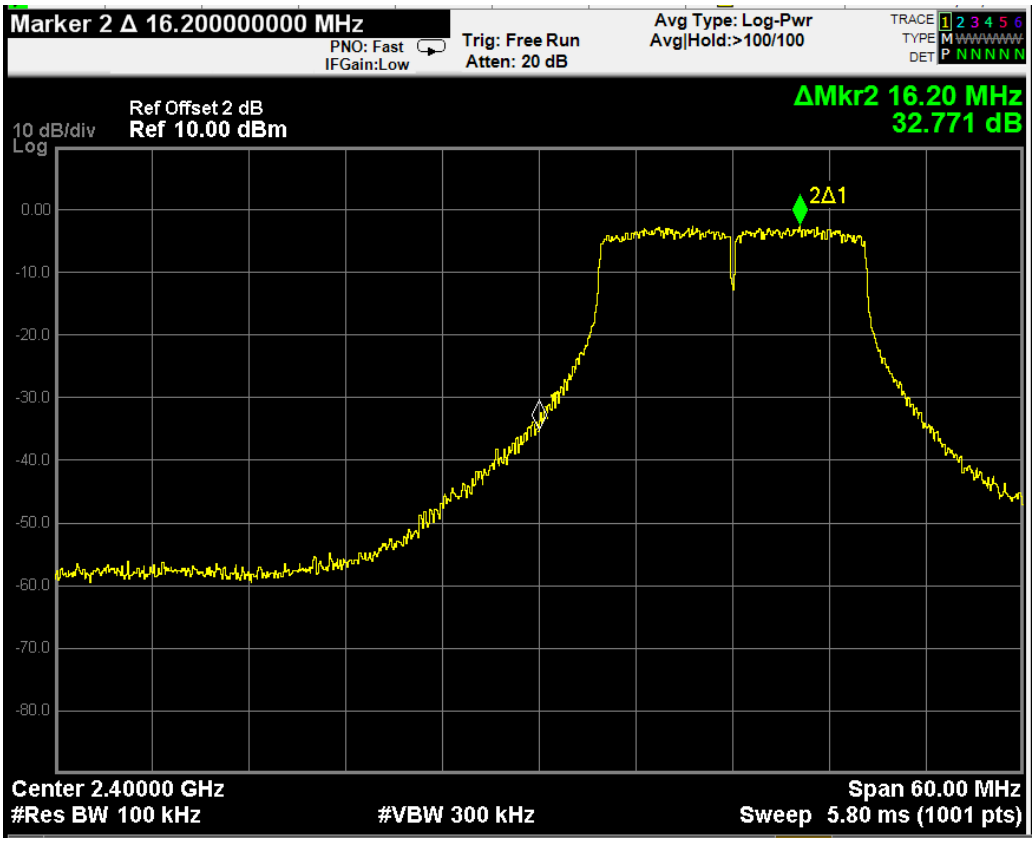
802.11b Ch01 2412MHz (Below Edge 2400 MHz) ANT1



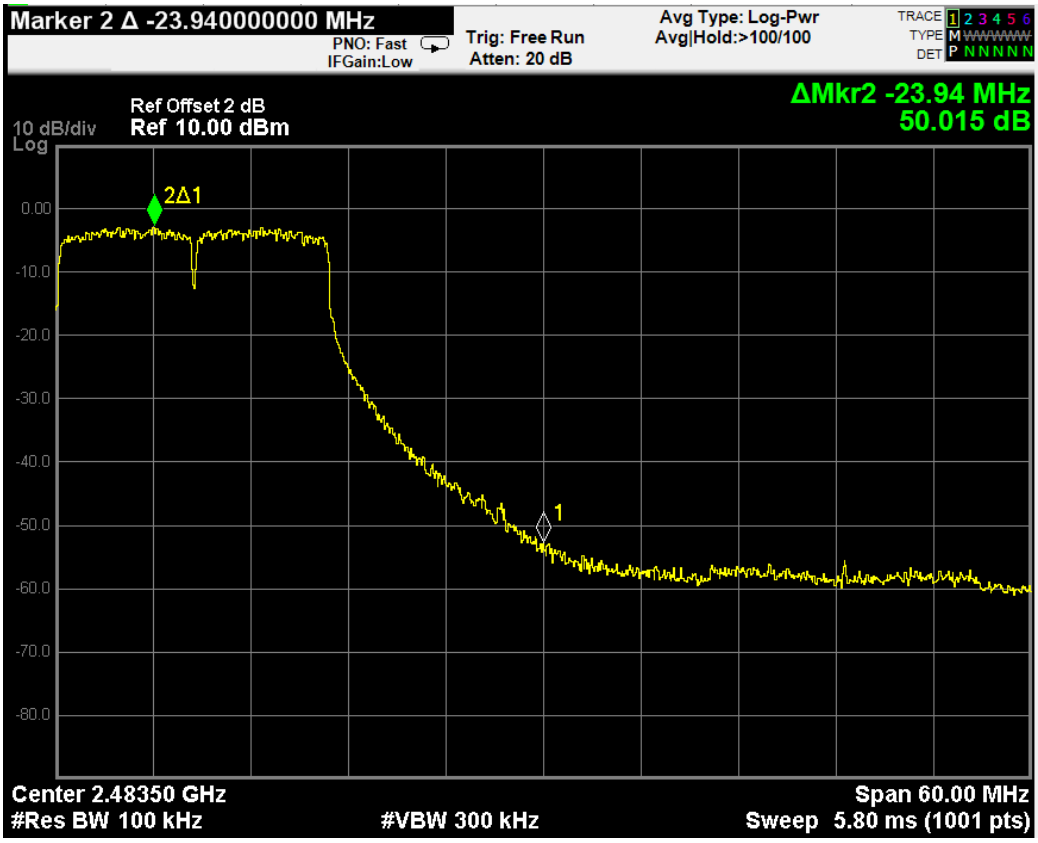
802.11b Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT1



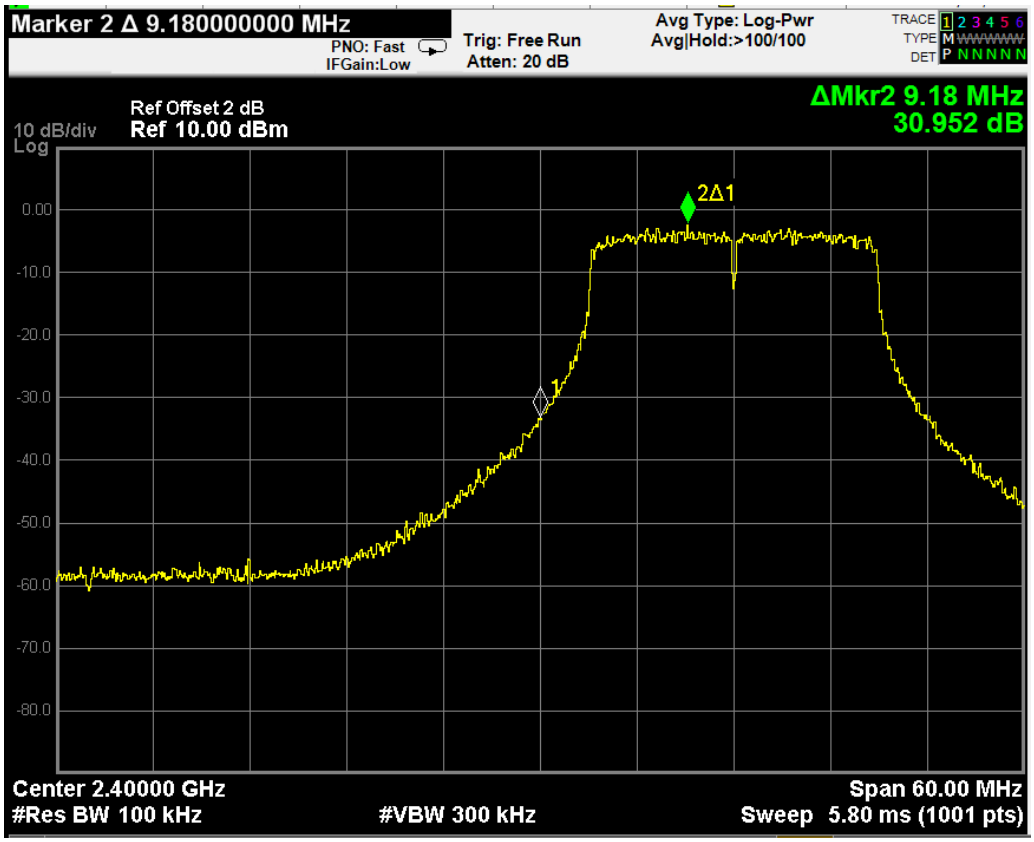
802.11g Ch01 2412MHz (Below Edge 2400 MHz) ANT1



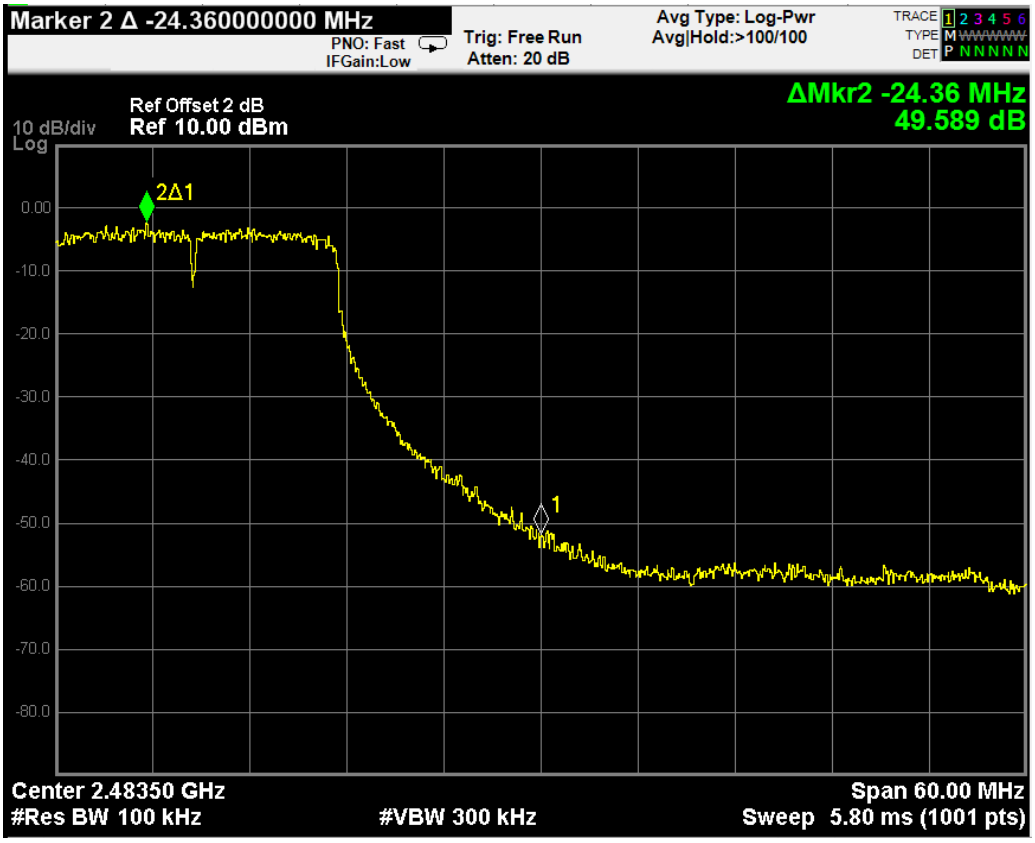
802.11g Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT1



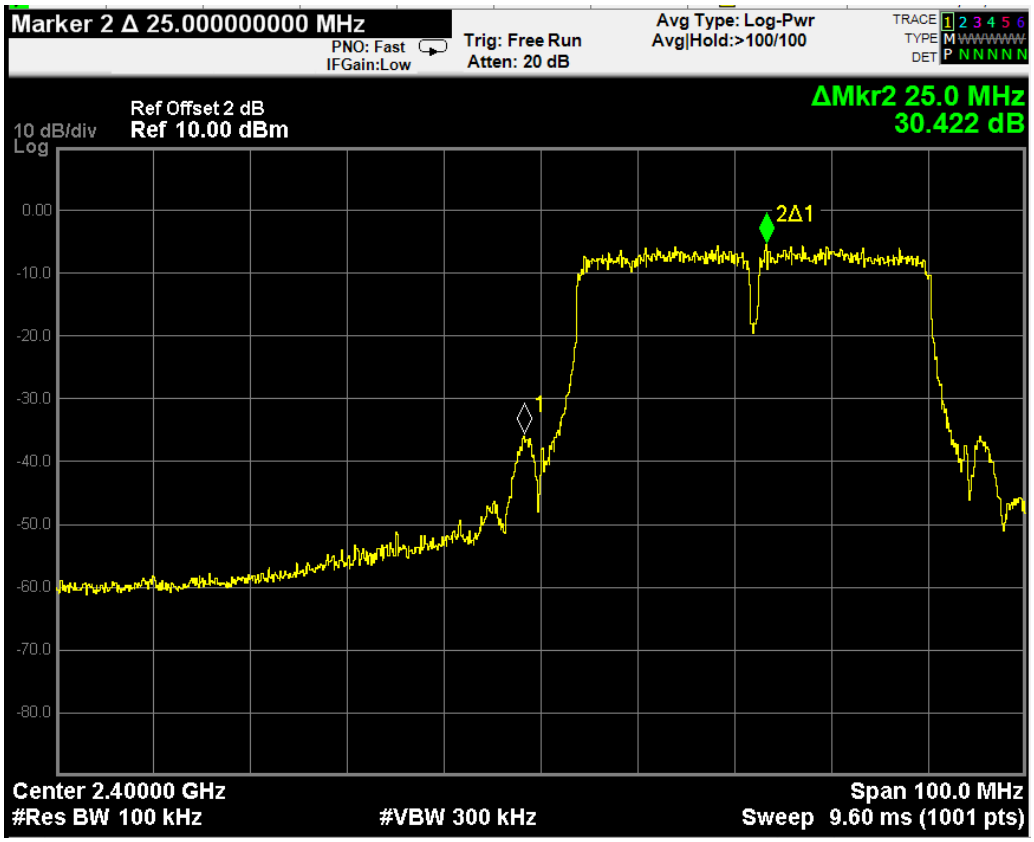
802.11n HT20 Ch01 2412MHz (Below Edge 2400 MHz) ANT1



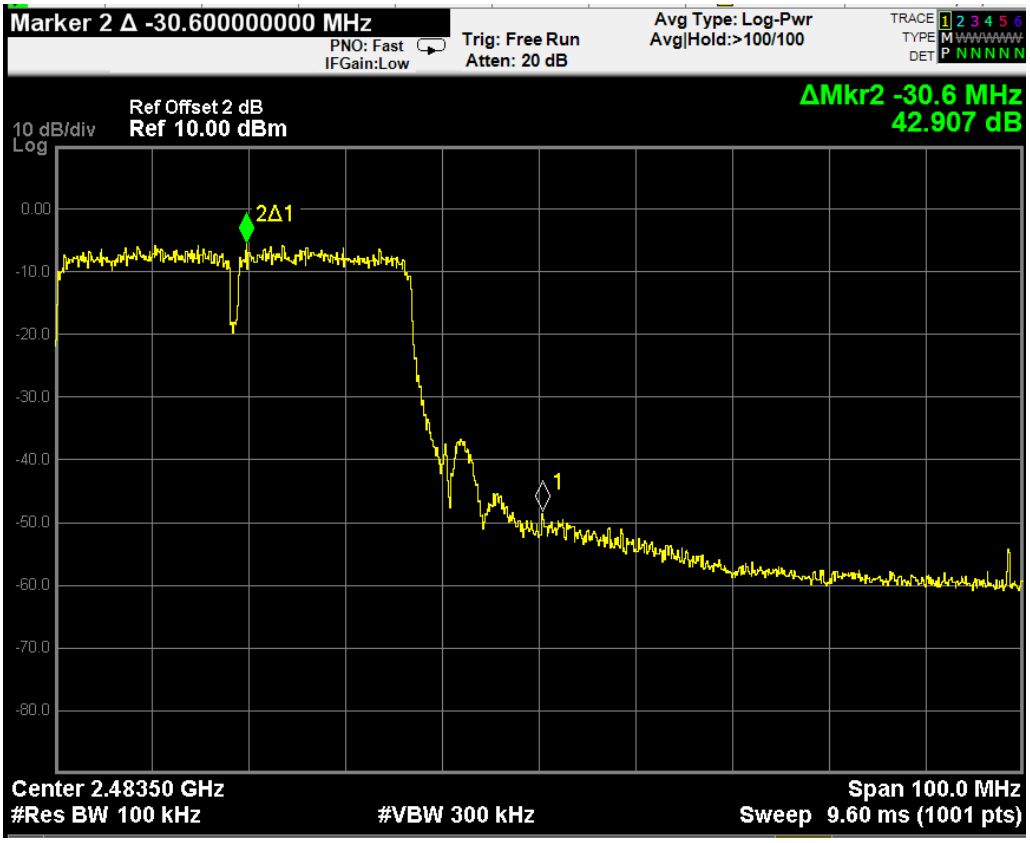
802.11n HT20 Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT1



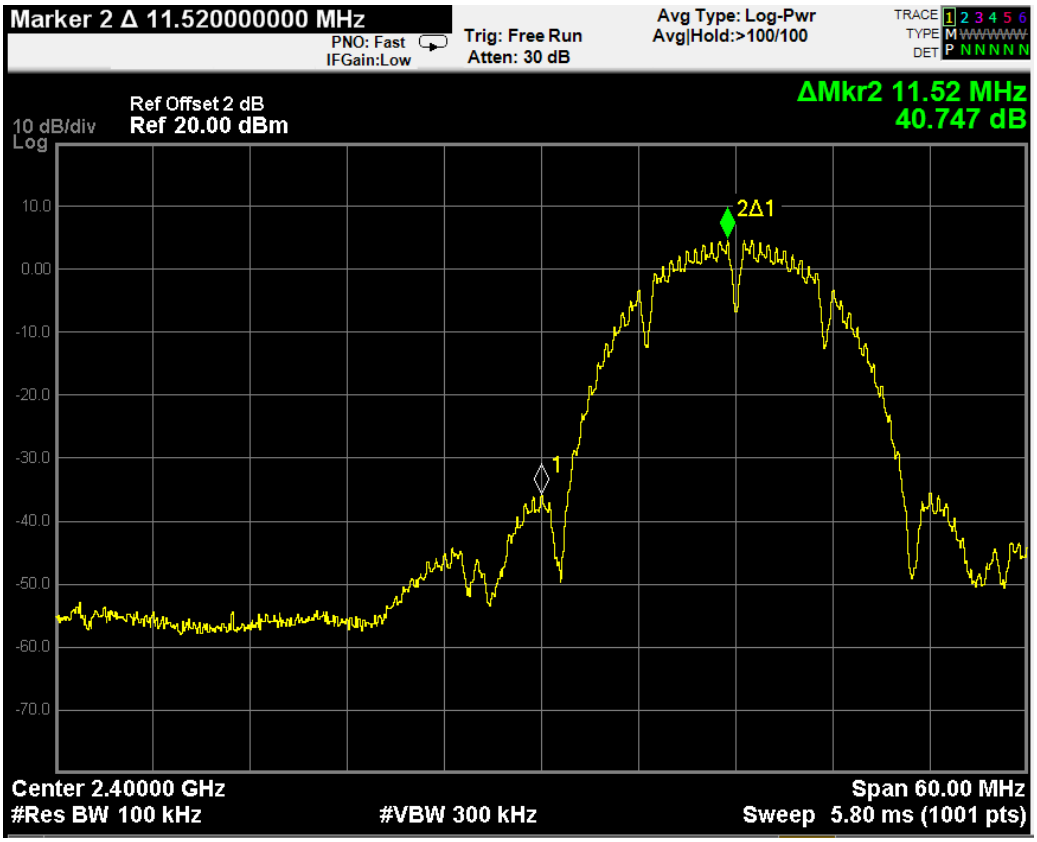
802.11n HT40 Ch03 2422MHz (Below Edge 2400 MHz) ANT1



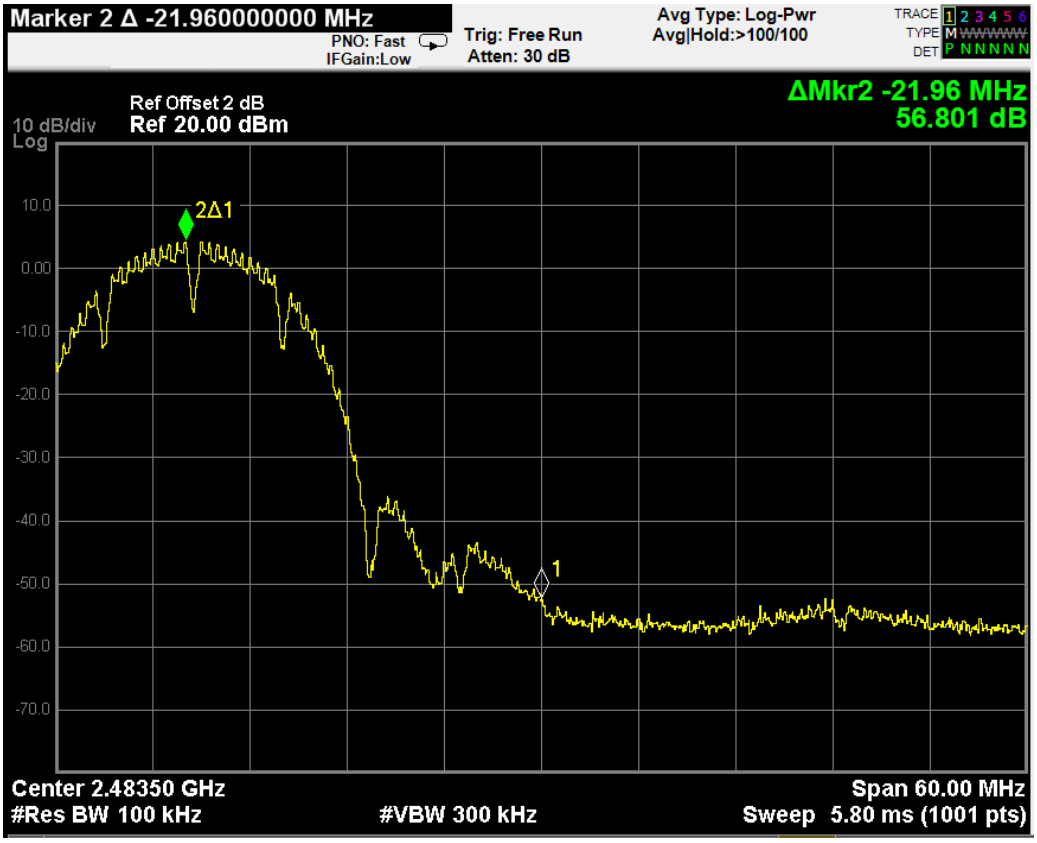
802.11n HT40 Ch09 2452MHz (Upper Edge 2483.5 MHz) ANT1



802.11b Ch01 2412MHz (Below Edge 2400 MHz) ANT2



802.11b Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT2



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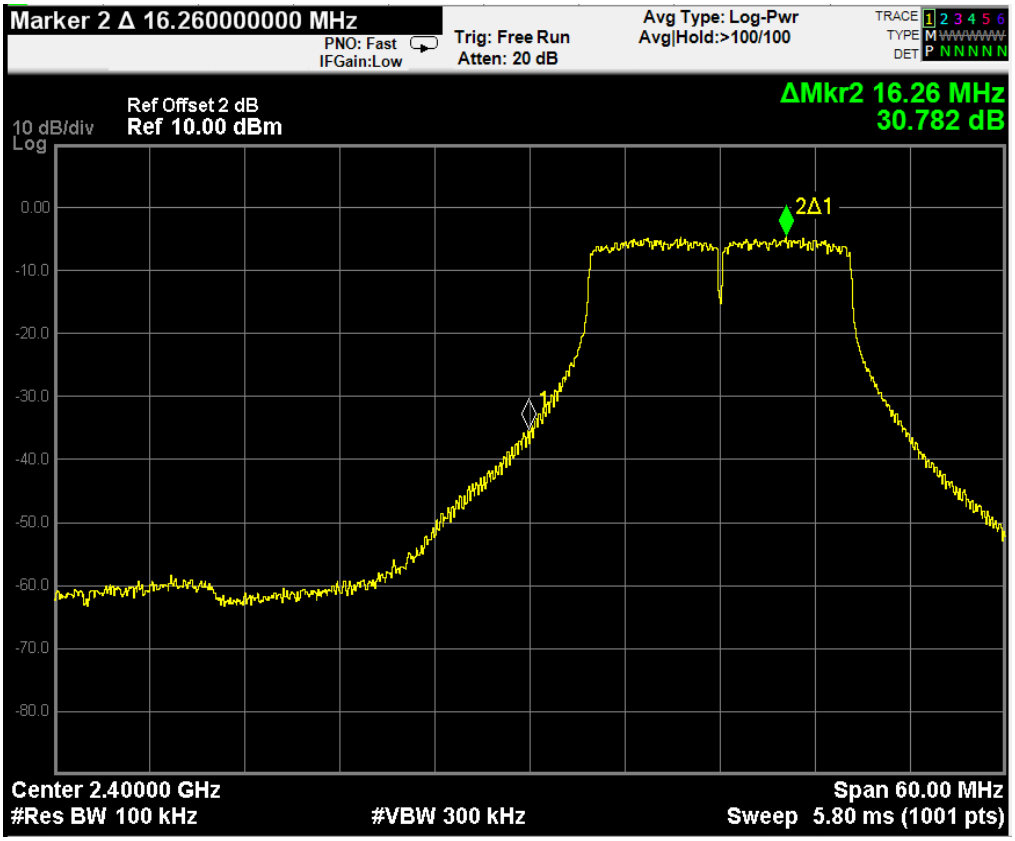
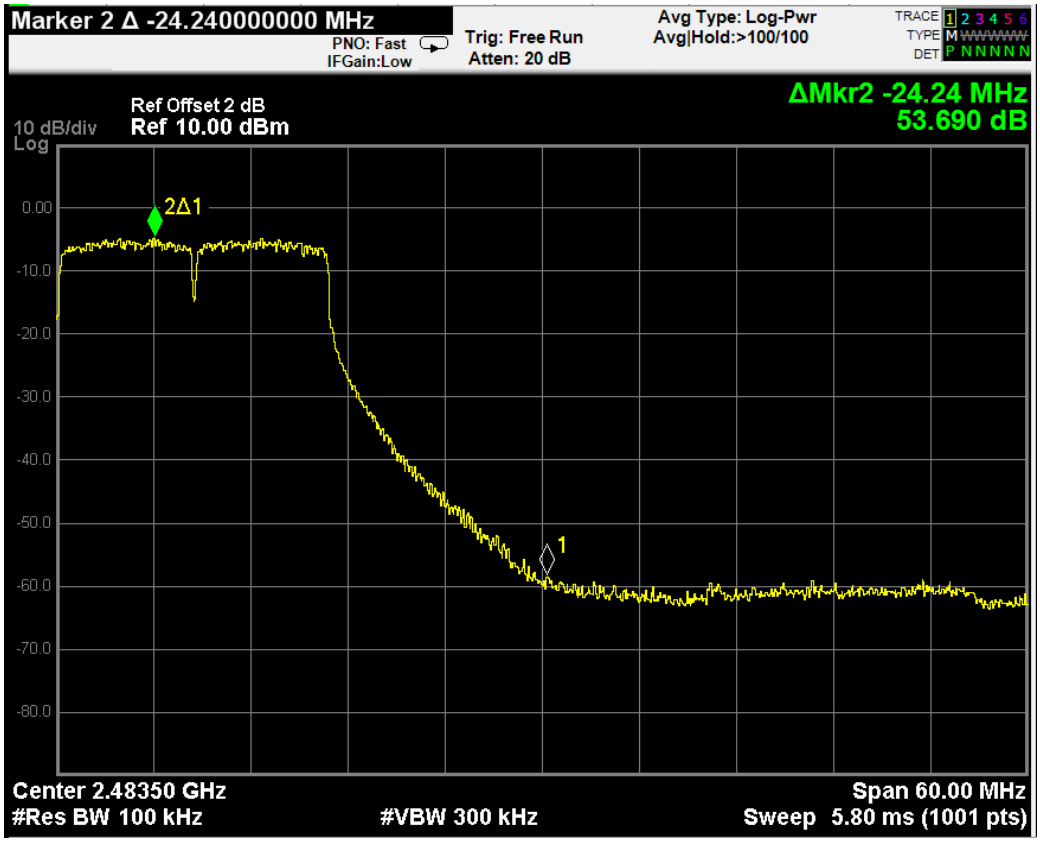
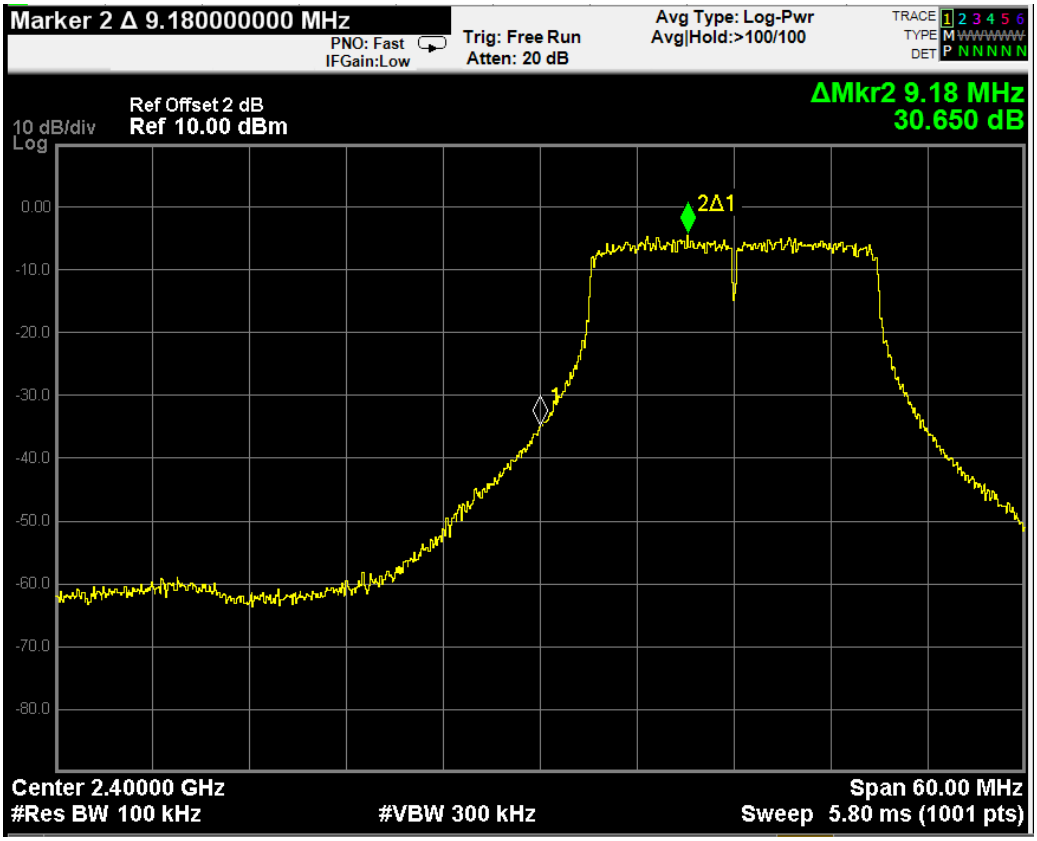


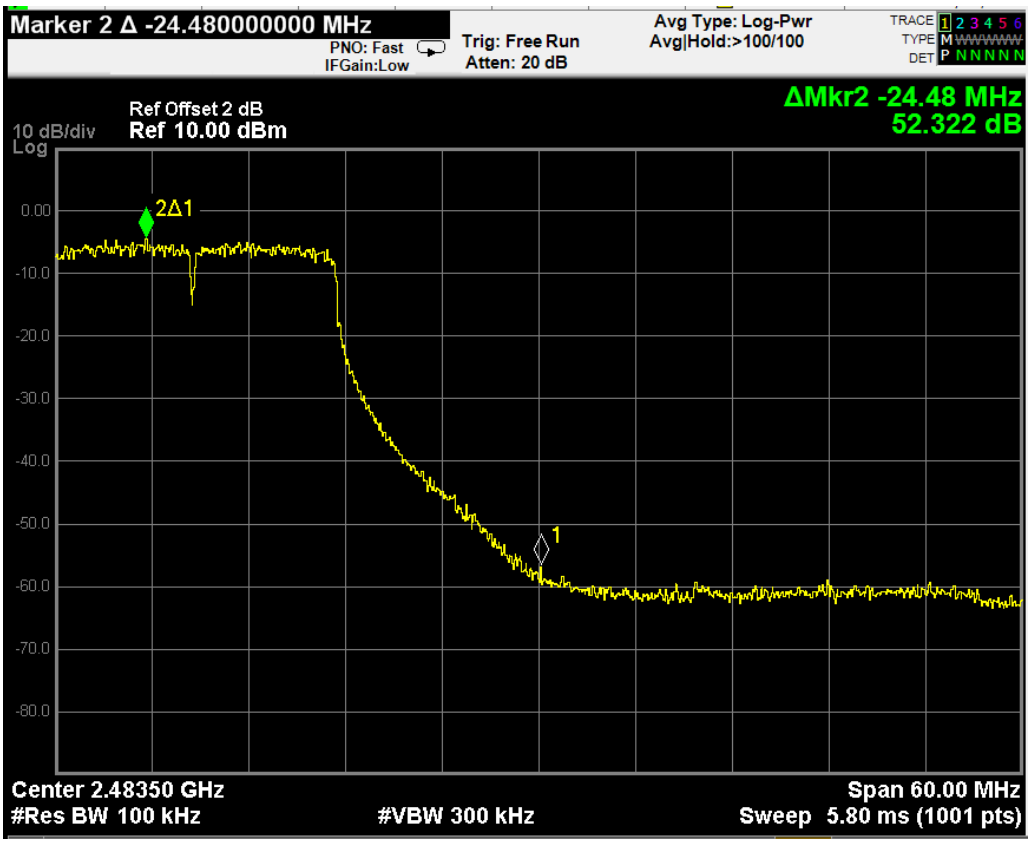
802.11g Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT2



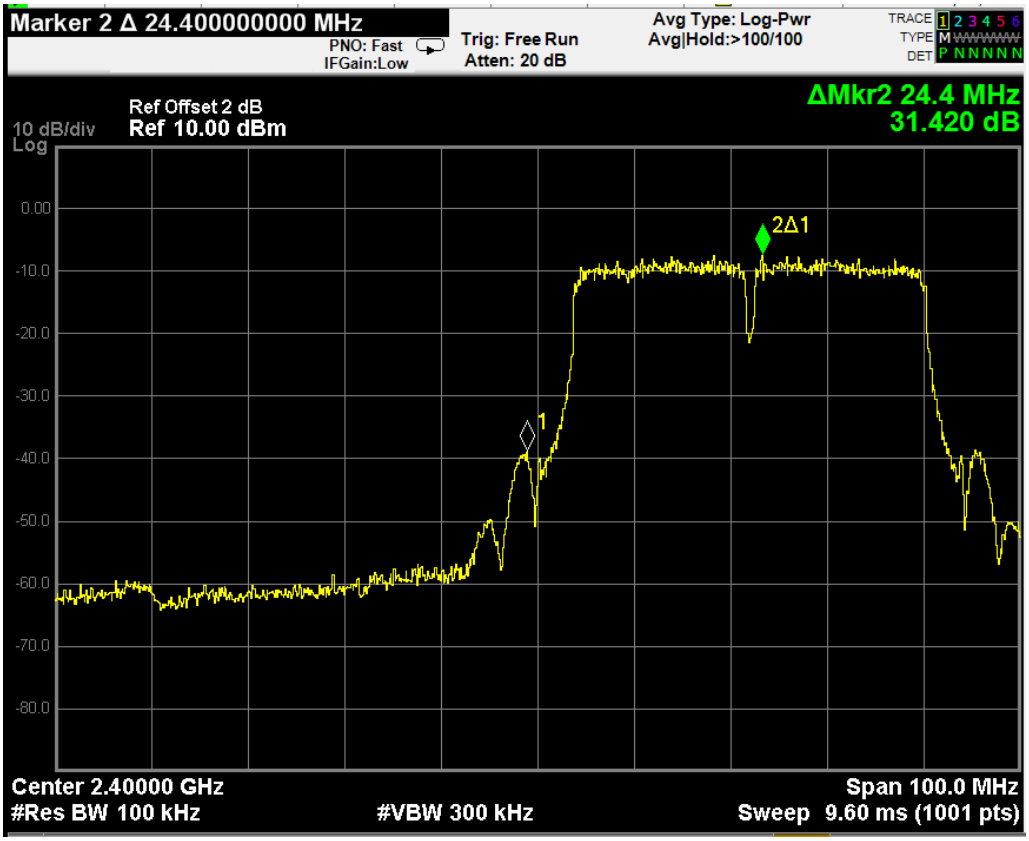
802.11n HT20 Ch01 2412MHz (Below Edge 2400 MHz) ANT2



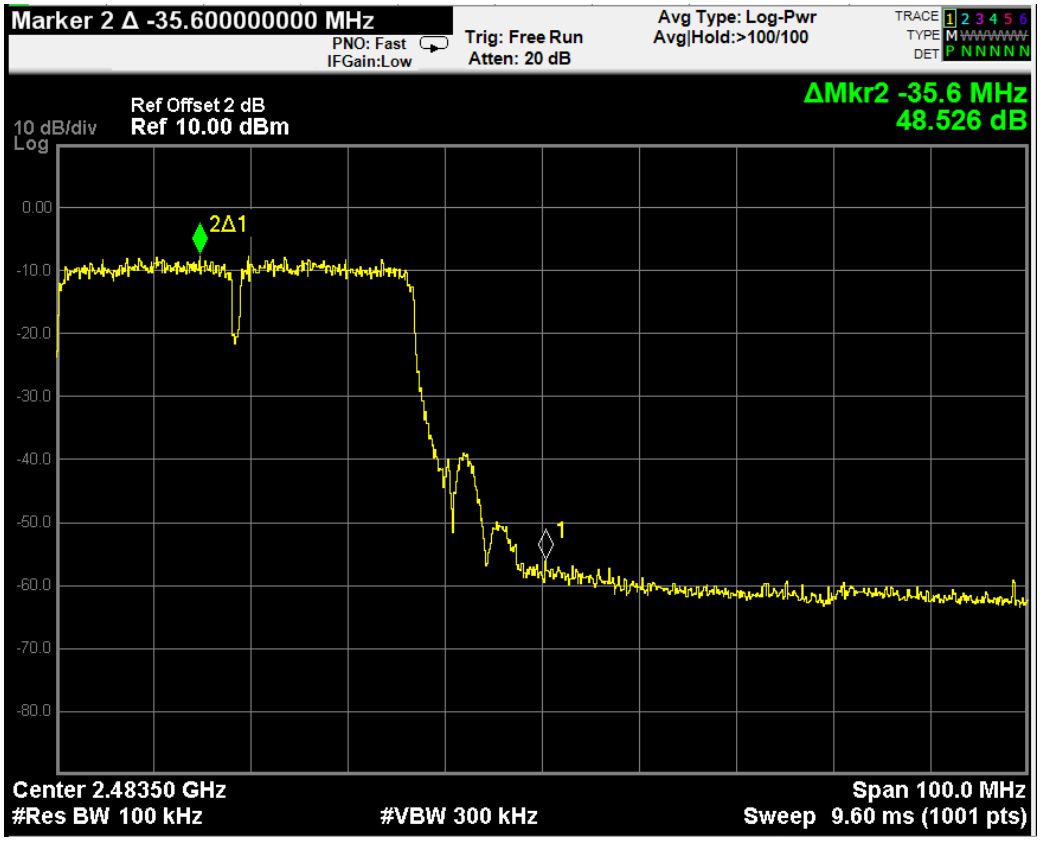
802.11n HT20 Ch11 2462MHz (Upper Edge 2483.5 MHz) ANT2



802.11n HT40 Ch03 2422MHz (Below Edge 2400 MHz) ANT2



802.11n HT40 Ch09 2452MHz (Upper Edge 2483.5 MHz) ANT2



9 POWER SPECTRAL DENSITY MEASUREMENT

9.1 Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 13, 2014

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 “MP_TEST” 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. The Test Receiver was set as 3kHz ≤ RBW ≤ 100kHz, VBW ≥ 3 x RBW, span = 1.5 times the DTS channel bandwidth.
The test procedure is defined in KDB558074 D01 v03r01 (the 10.2 Measurement Procedure “Method PKPSD (peak PSD)” was used).

9.6 Test Results

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

(Test Date: May 12, 2014 Temperature: 26℃ Humidity: 44 %)

ANT 1

Modulation	Channel	Frequency	Power Spectral Density	Limit
802.11b	01	2412 MHz	-4.159 dBm	8dBm
	06	2437 MHz	-3.939 dBm	8dBm
	11	2462 MHz	-4.264 dBm	8dBm
802.11g	01	2412 MHz	-10.749 dBm	8dBm
	06	2437 MHz	-10.724 dBm	8dBm
	11	2462 MHz	-10.808 dBm	8dBm
802.11n HT20	01	2412 MHz	-10.085 dBm	8dBm
	06	2437 MHz	-9.782 dBm	8dBm
	11	2462 MHz	-9.832 dBm	8dBm
802.11n HT40	03	2422 MHz	-12.970 dBm	8dBm
	06	2437 MHz	-13.038 dBm	8dBm
	09	2452 MHz	-13.135 dBm	8dBm

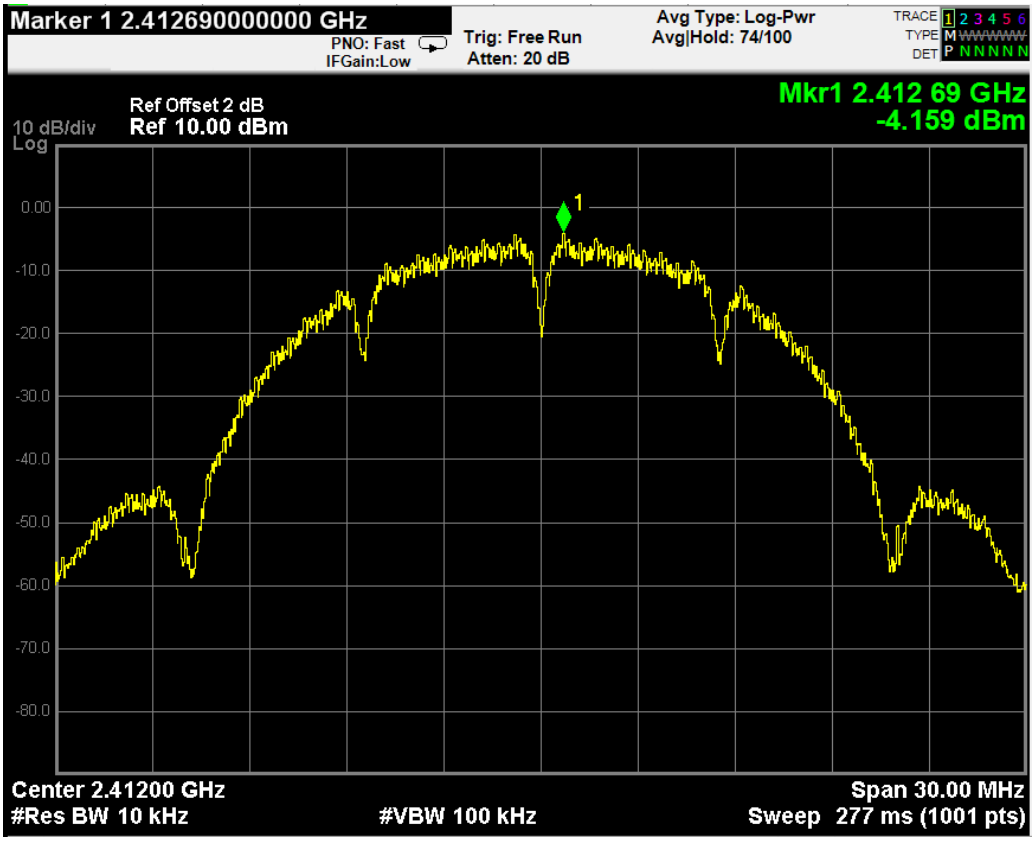
ANT 2

Modulation	Channel	Frequency	Power Spectral Density	Limit
802.11b	01	2412 MHz	-6.021 dBm	8dBm
	06	2437 MHz	-5.780 dBm	8dBm
	11	2462 MHz	-6.151 dBm	8dBm
802.11g	01	2412 MHz	-12.458 dBm	8dBm
	06	2437 MHz	-12.731 dBm	8dBm
	11	2462 MHz	-12.979 dBm	8dBm
802.11n HT20	01	2412 MHz	-12.640 dBm	8dBm
	06	2437 MHz	-12.747 dBm	8dBm
	11	2462 MHz	-13.039 dBm	8dBm
802.11n HT40	03	2422 MHz	-15.130 dBm	8dBm
	06	2437 MHz	-14.897 dBm	8dBm
	09	2452 MHz	-14.900 dBm	8dBm

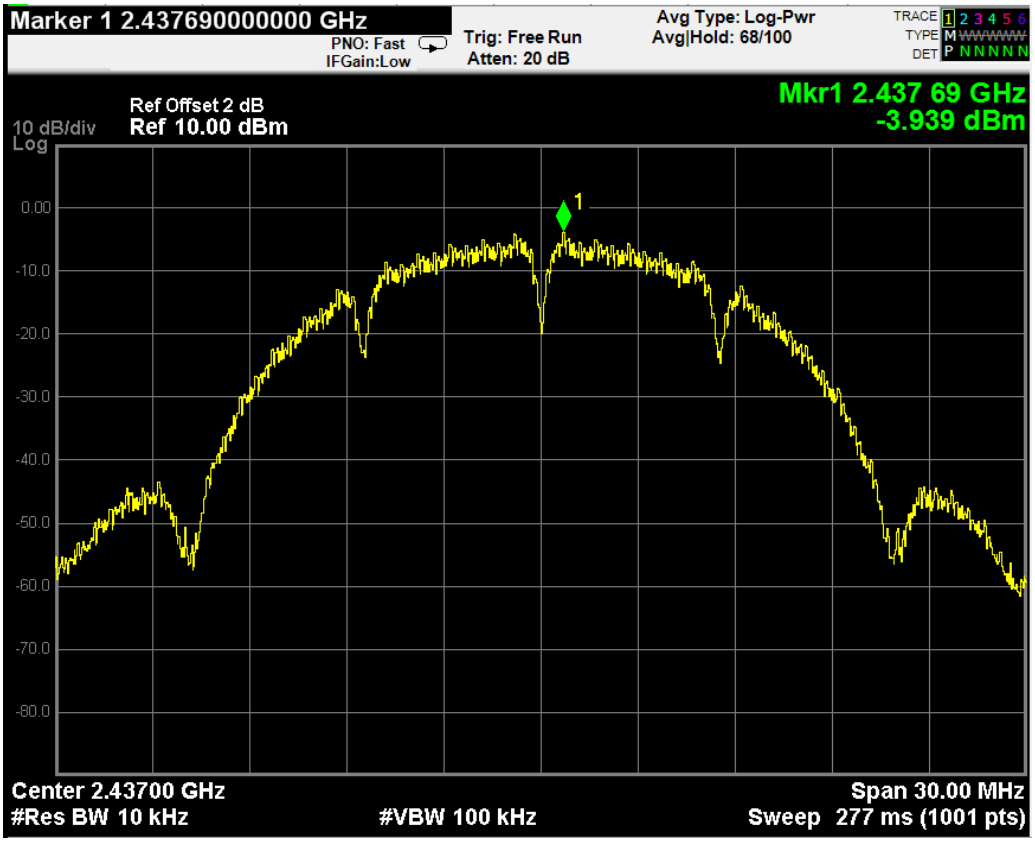
TOTAL POWER 802.11n ANT1+ANT2

Modulation	Channel	Frequency	Power Spectral Density	Limit
802.11n HT20	01	2412 MHz	-8.17 dBm	8dBm
	06	2437 MHz	-8.01 dBm	8dBm
	11	2462 MHz	-8.14 dBm	8dBm
802.11n HT40	03	2422 MHz	-10.91 dBm	8dBm
	06	2437 MHz	-10.86 dBm	8dBm
	09	2452 MHz	-10.92 dBm	8dBm

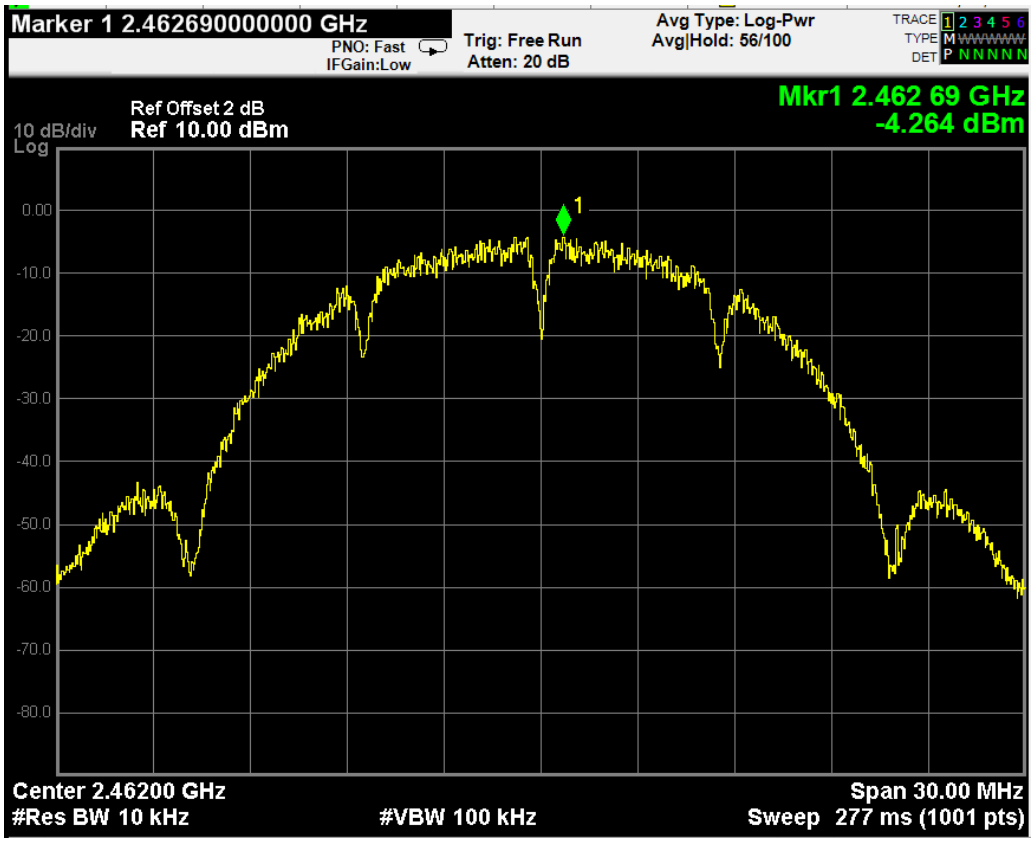
802.11b Ch01 2412 MHz ANT1



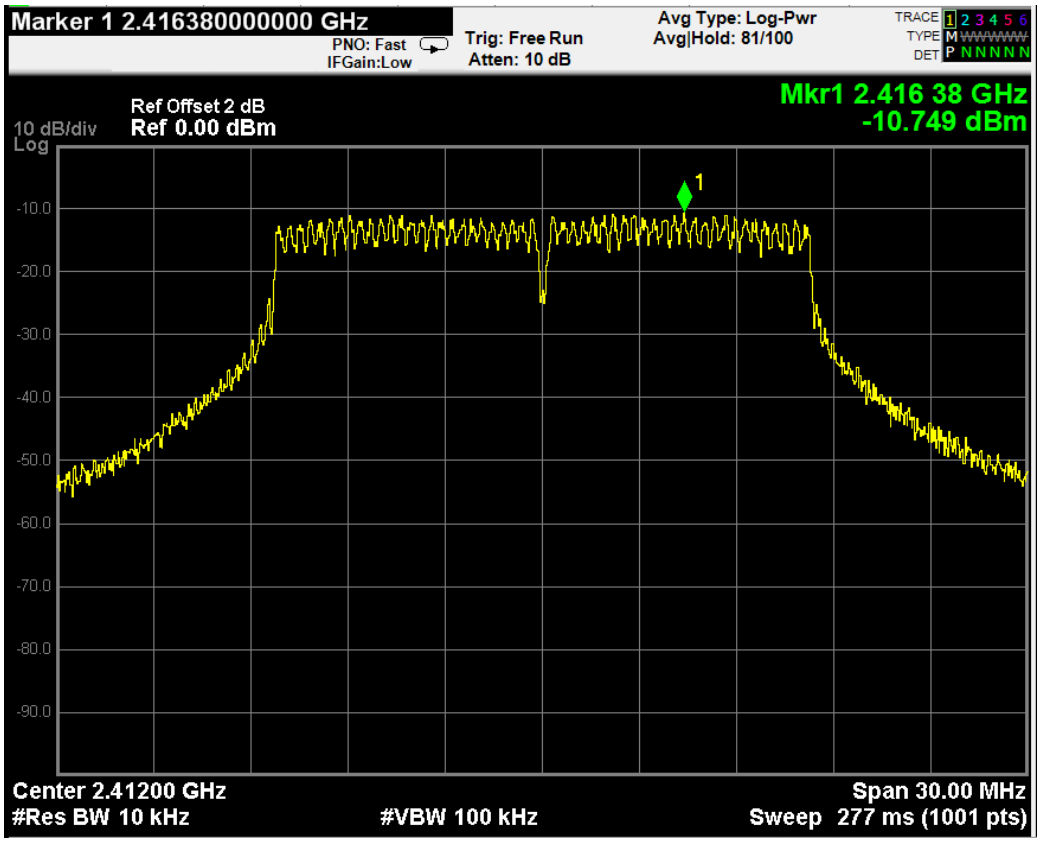
802.11b Ch06 2437 MHz ANT1



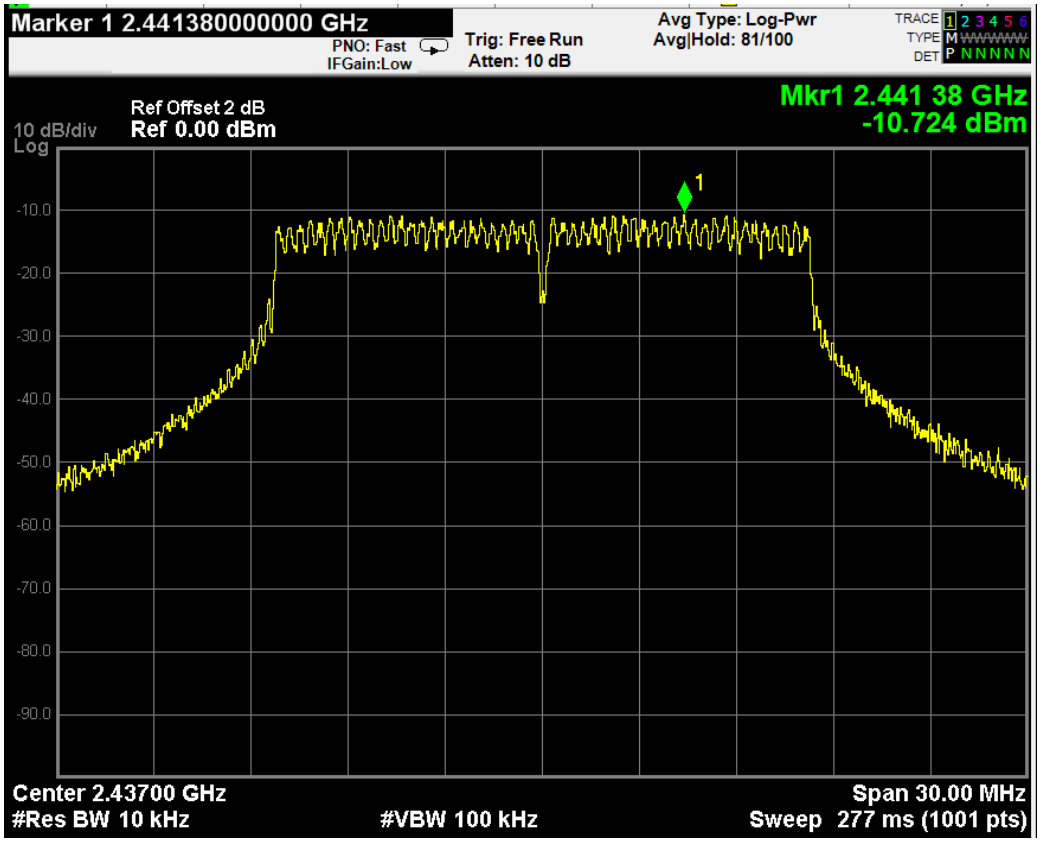
802.11b Ch11 2462 MHz ANT1



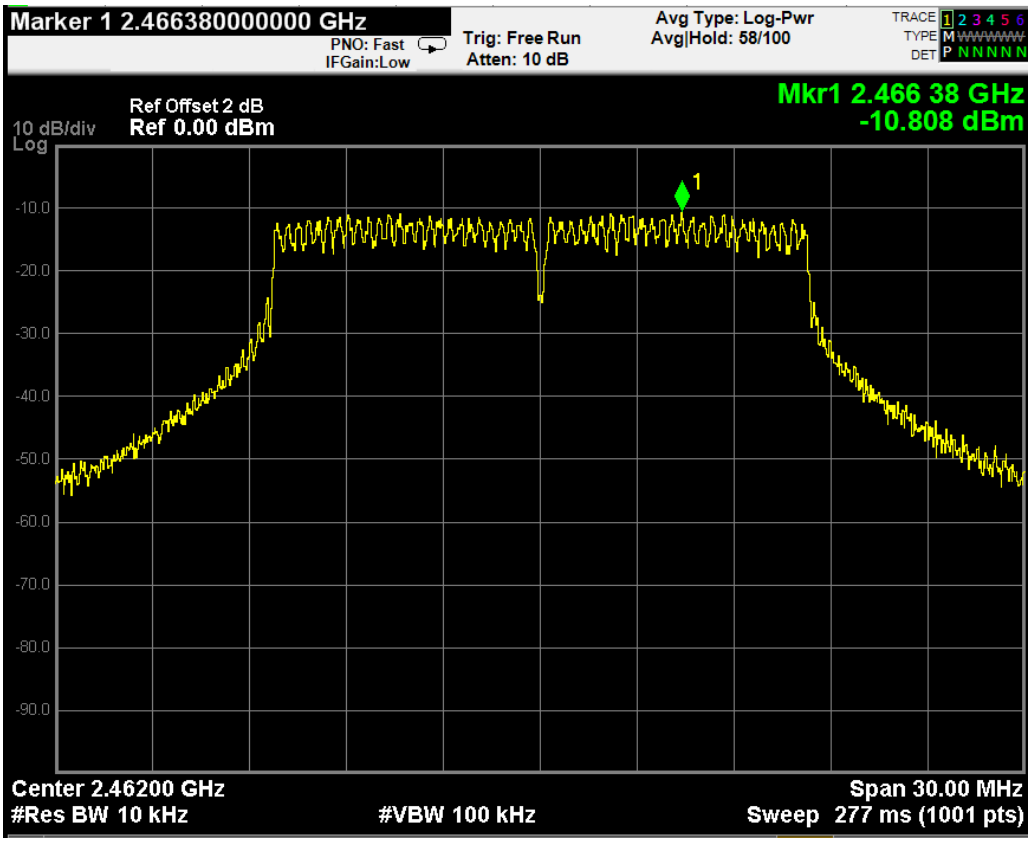
802.11g Ch01 2412 MHz ANT1



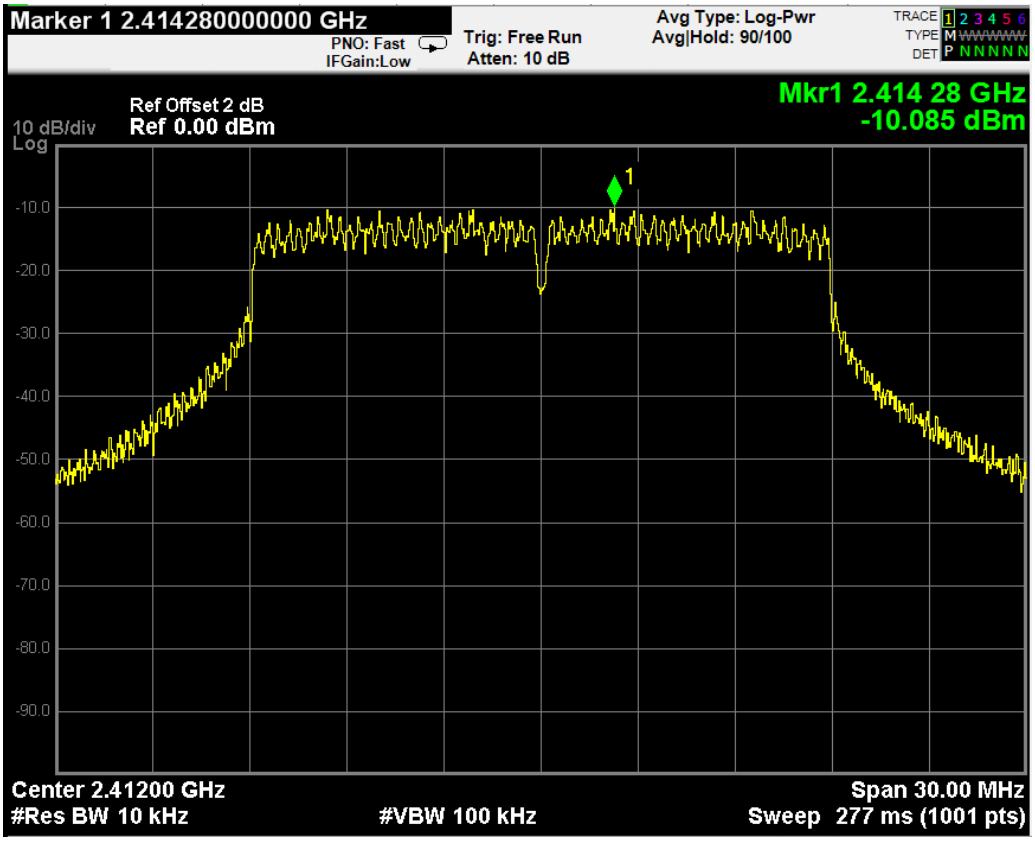
802.11g Ch06 2437 MHz ANT1



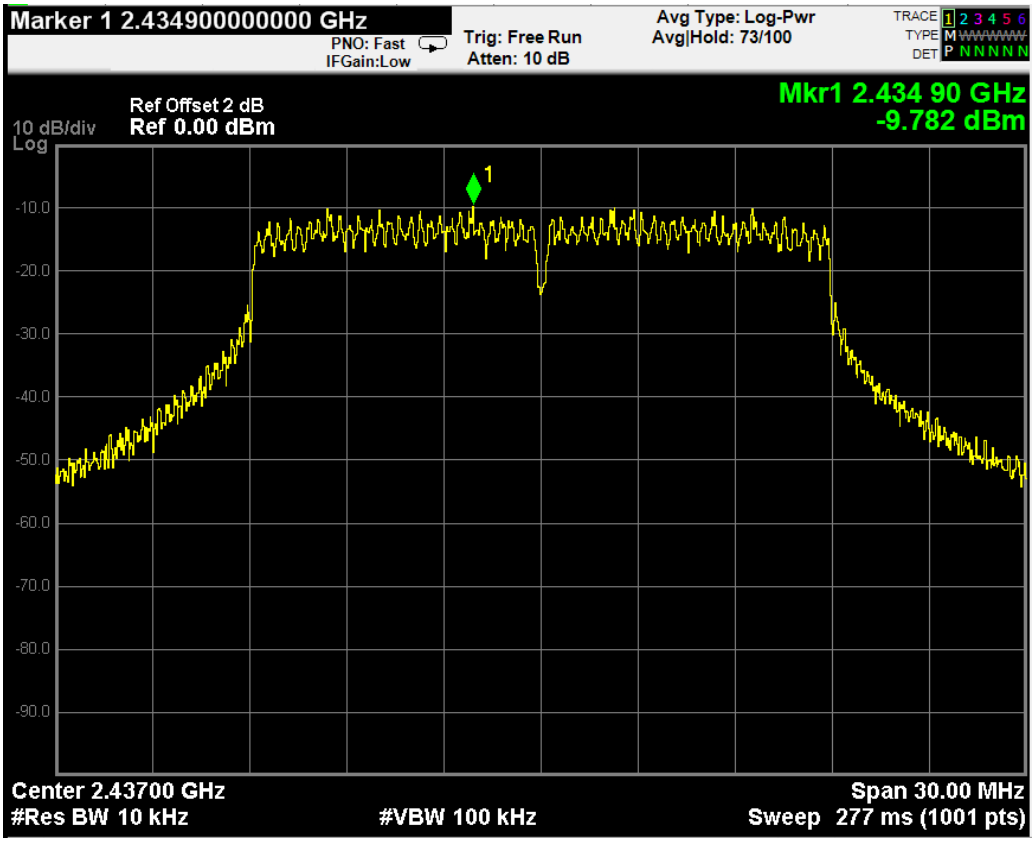
802.11g Ch11 2462 MHz ANT1



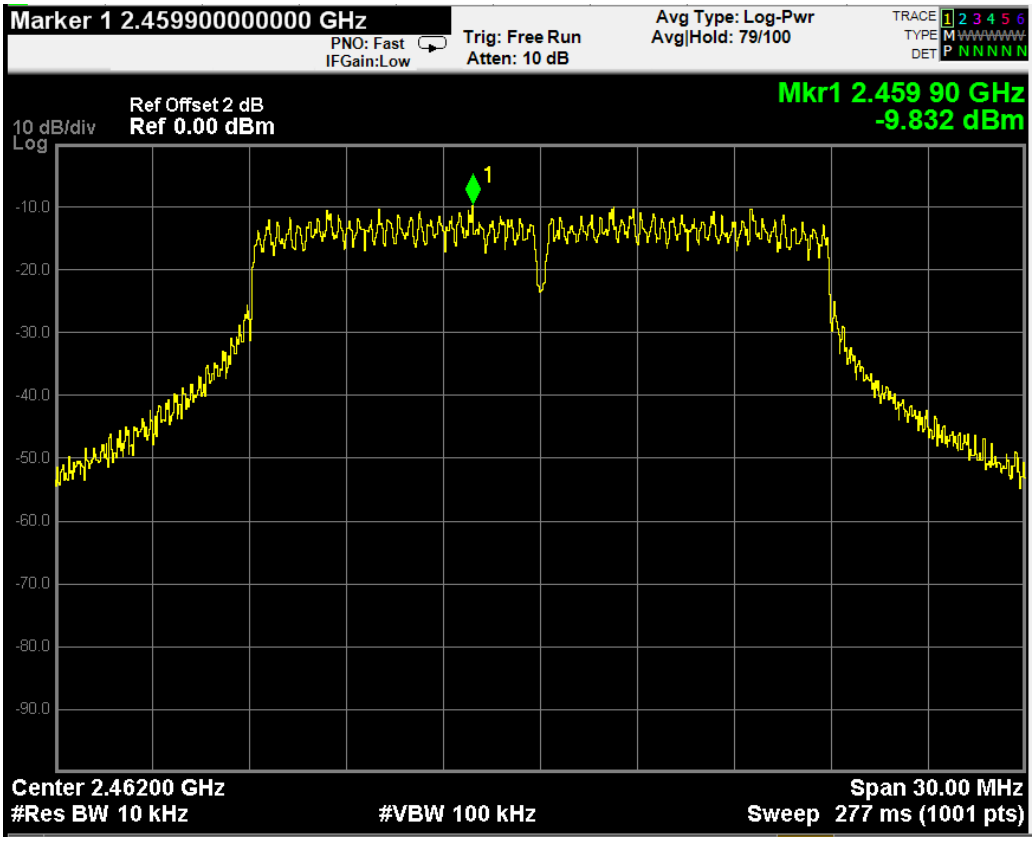
802.11n HT20 Ch01 2412 MHz ANT1



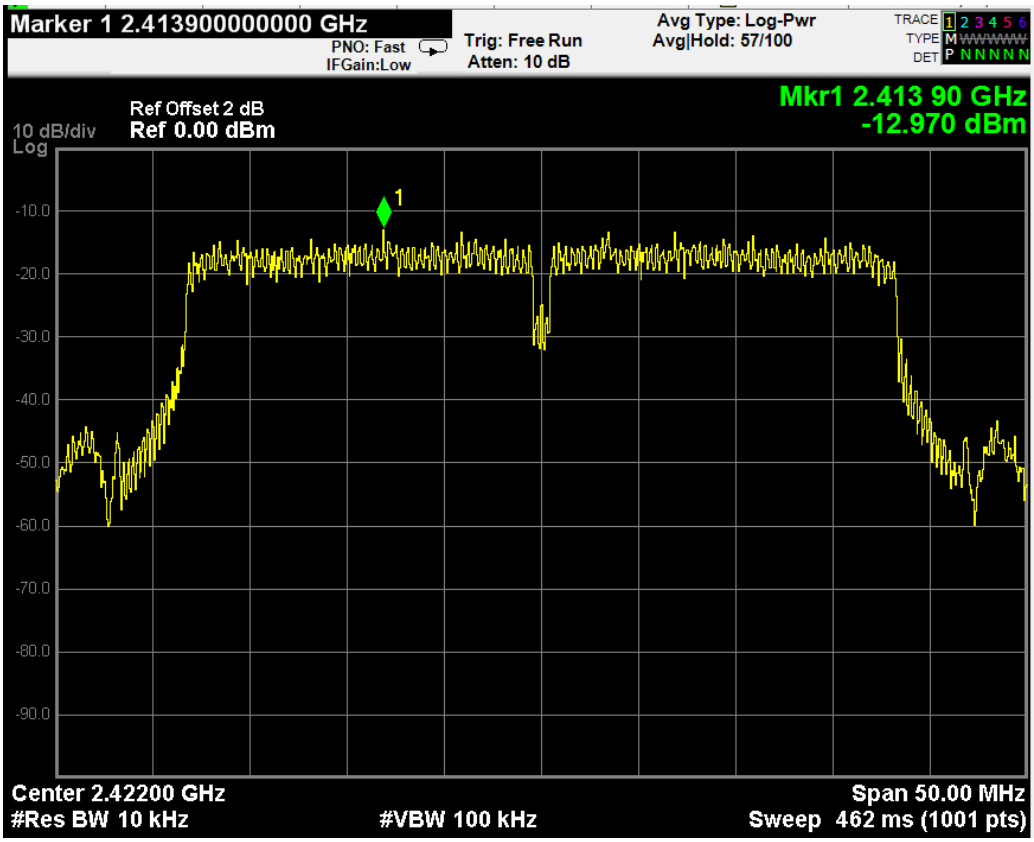
802.11n HT20 Ch06 2437 MHz ANT1



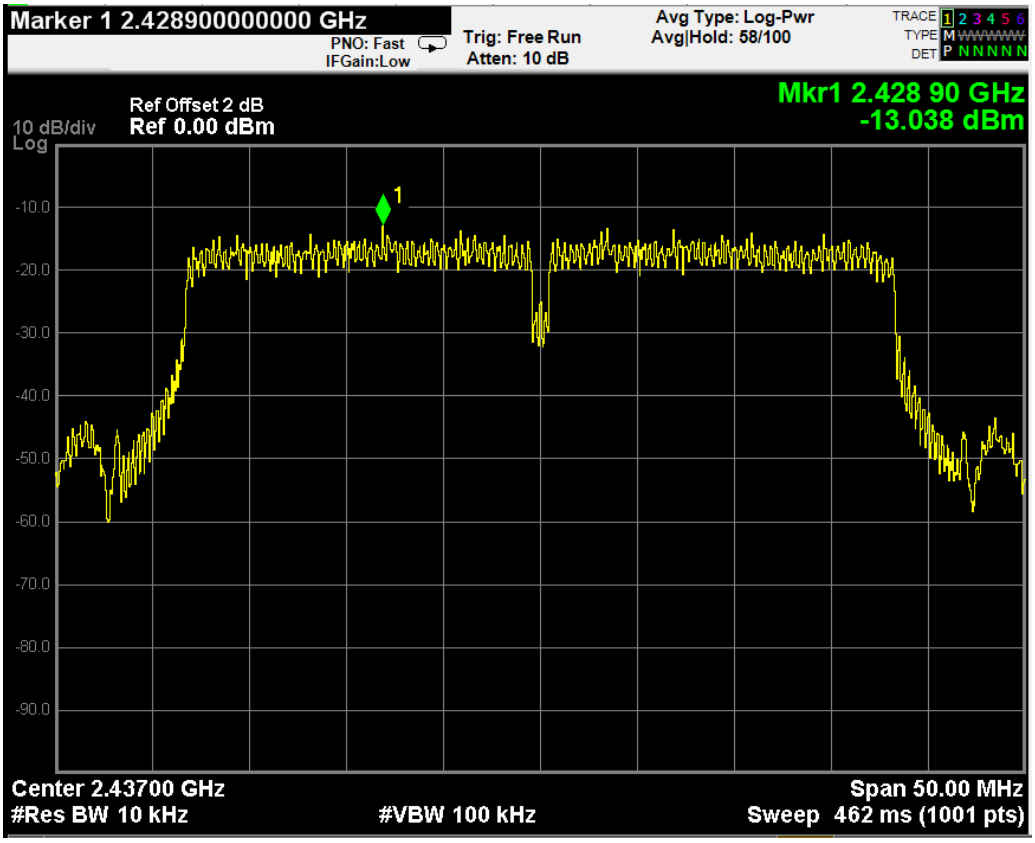
802.11n HT20 Ch11 2462 MHz ANT1



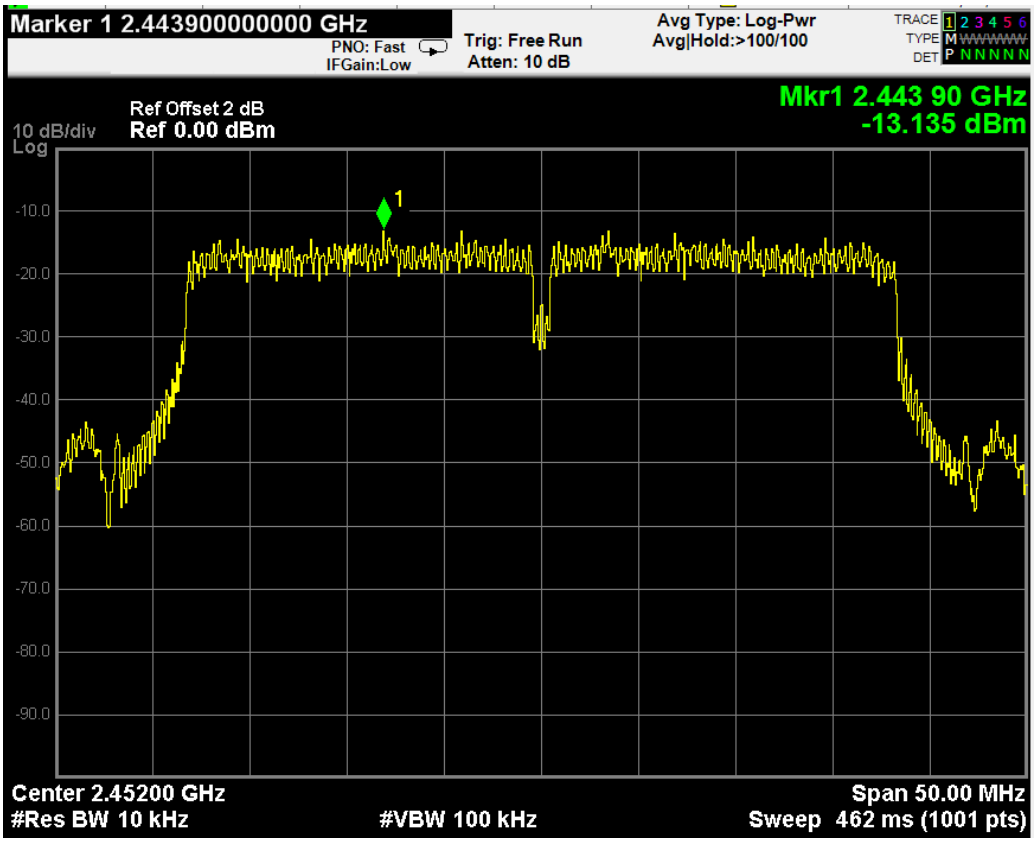
802.11n HT40 Ch03 2422 MHz ANT1



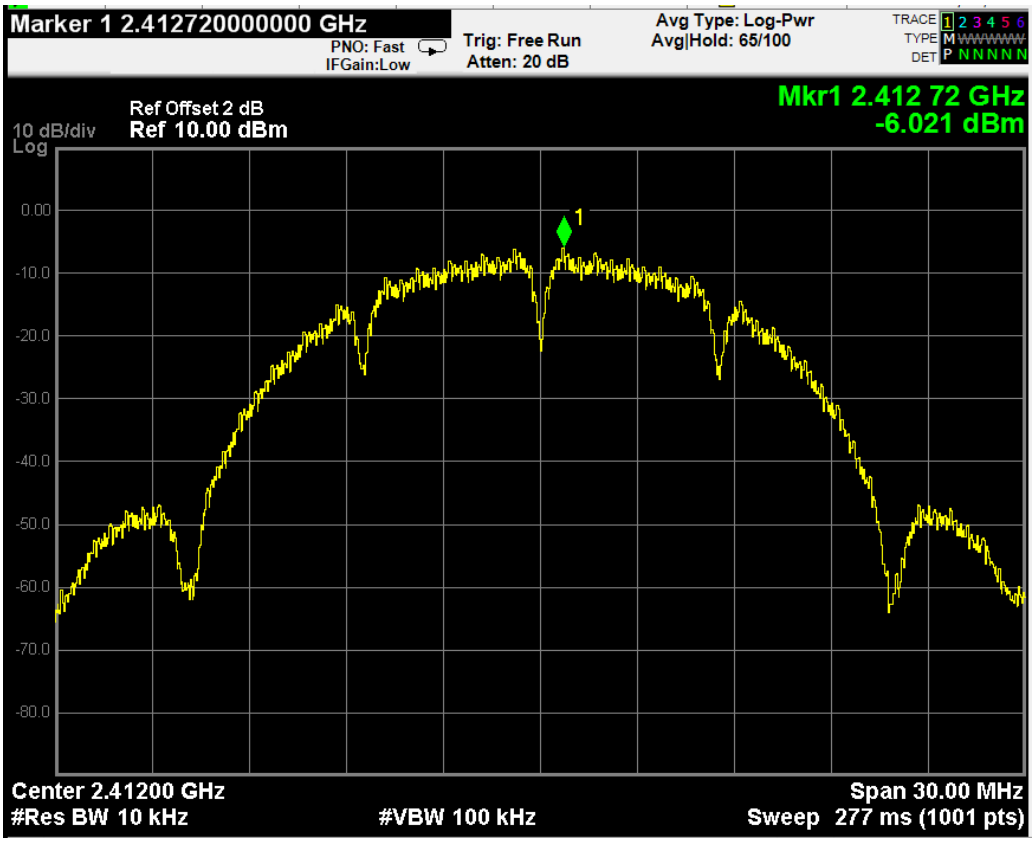
802.11n HT40 Ch06 2437 MHz ANT1



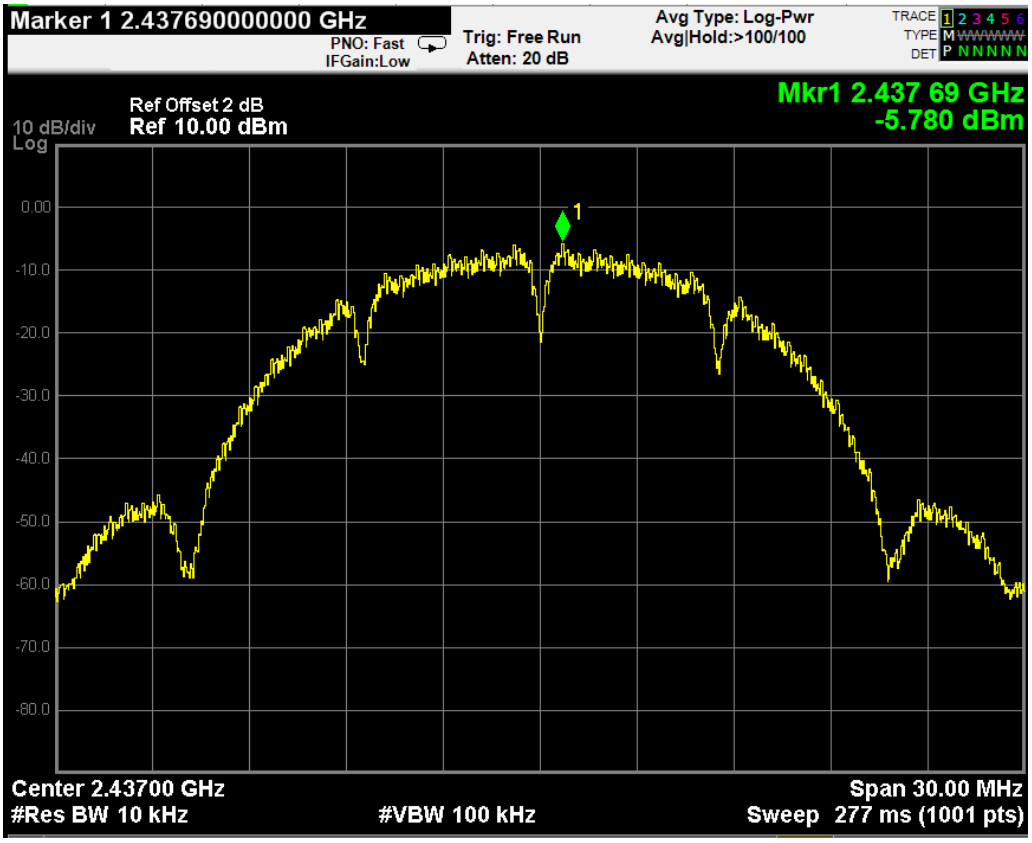
802.11n HT40 Ch09 2452 MHz ANT1



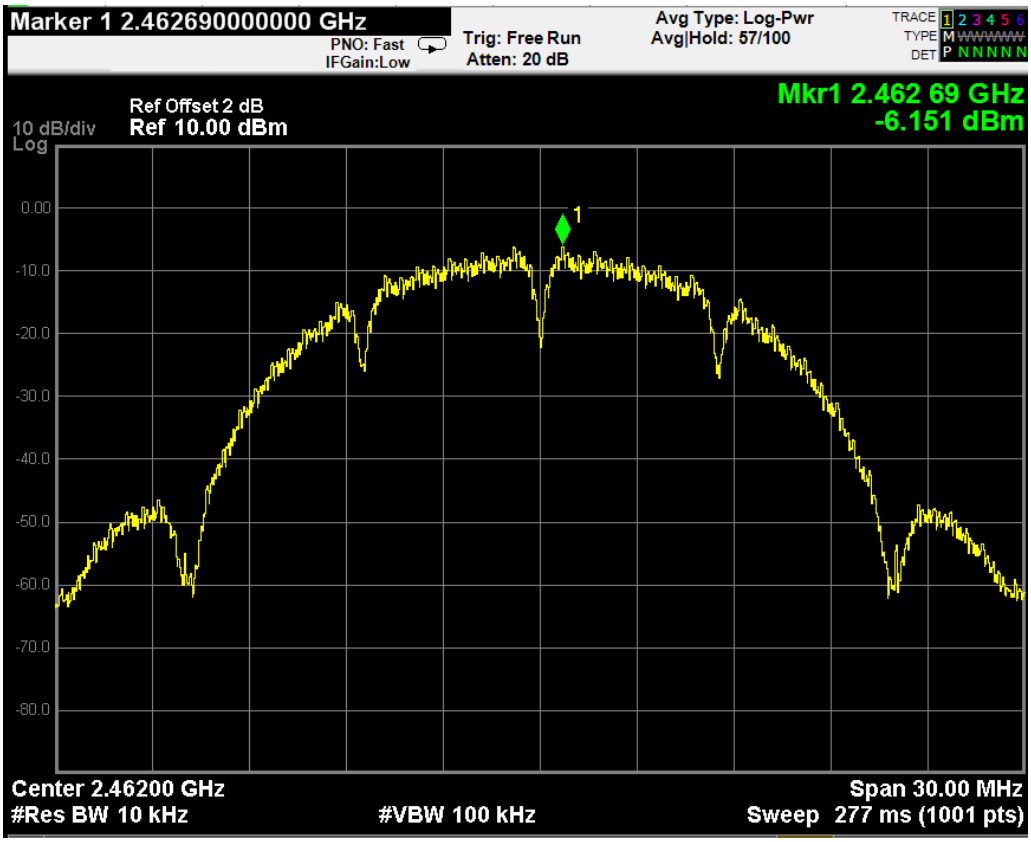
802.11b Ch01 2412 MHz ANT2



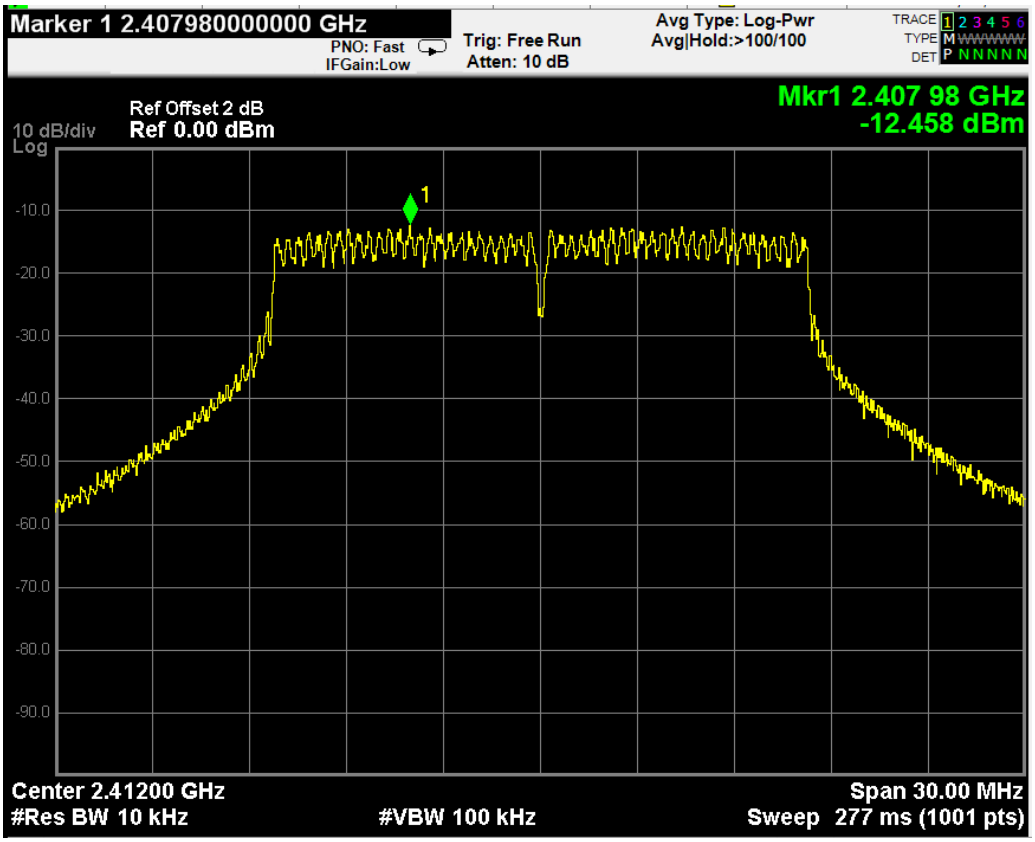
802.11b Ch06 2437 MHz ANT2



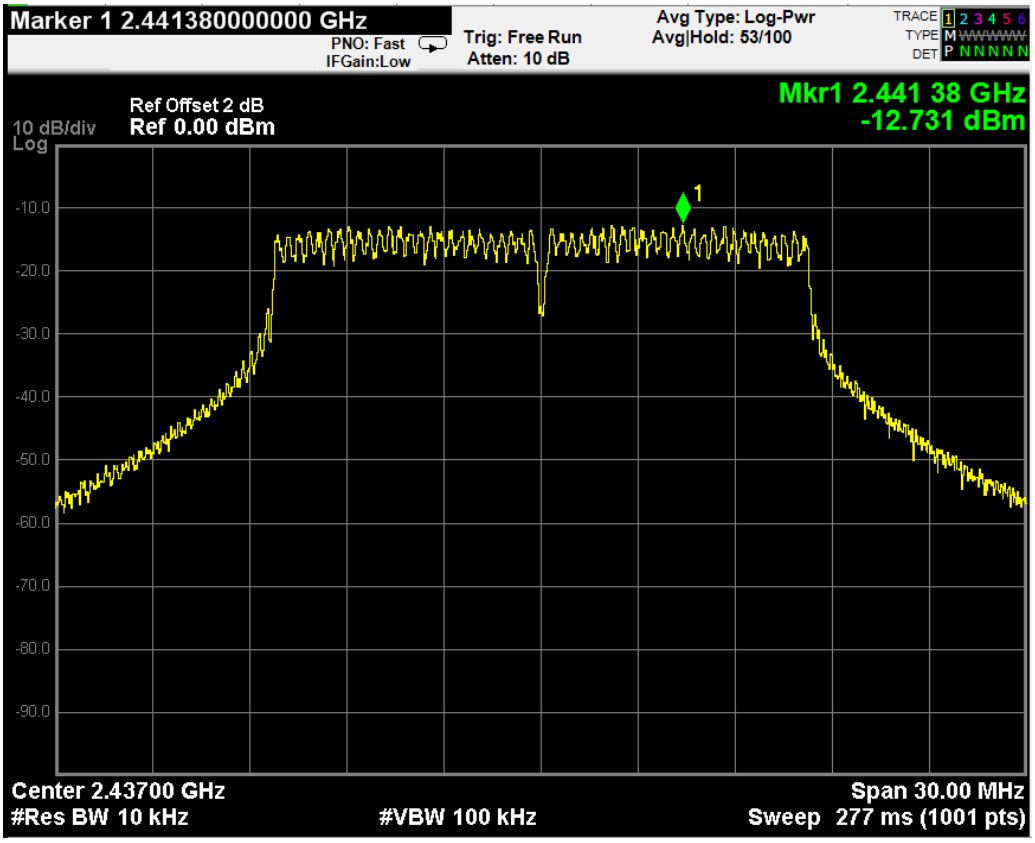
802.11b Ch11 2462 MHz ANT2



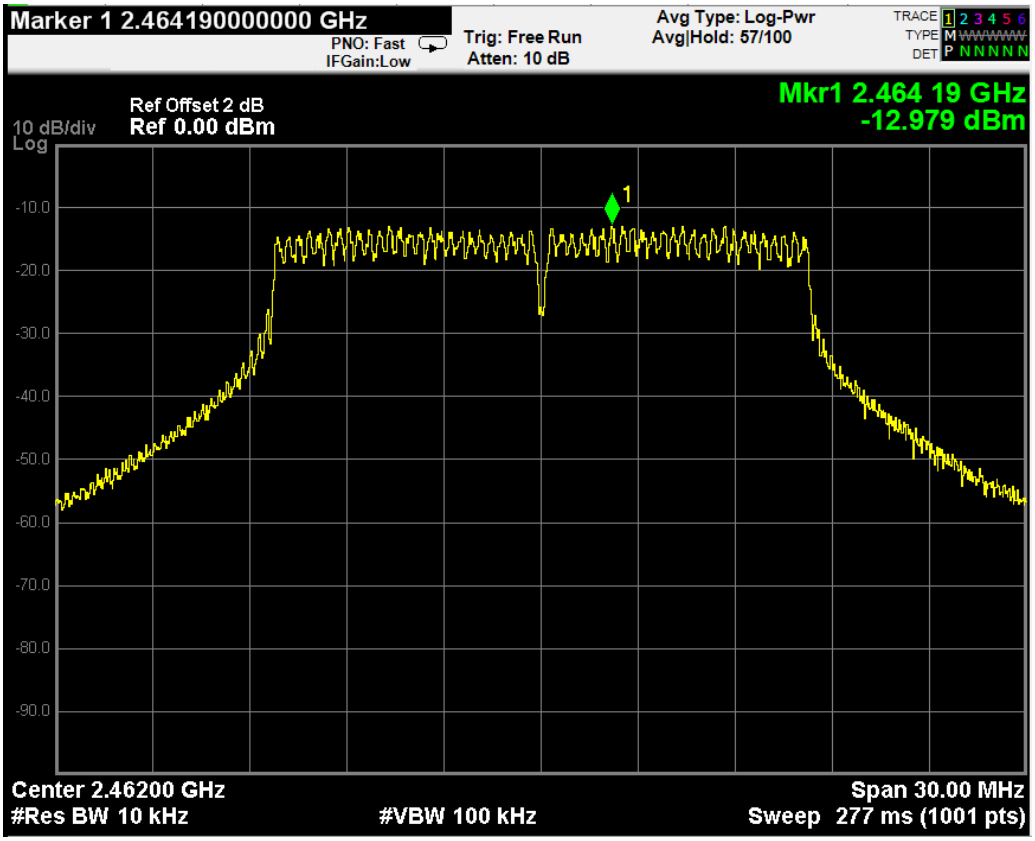
802.11g Ch01 2412 MHz ANT2



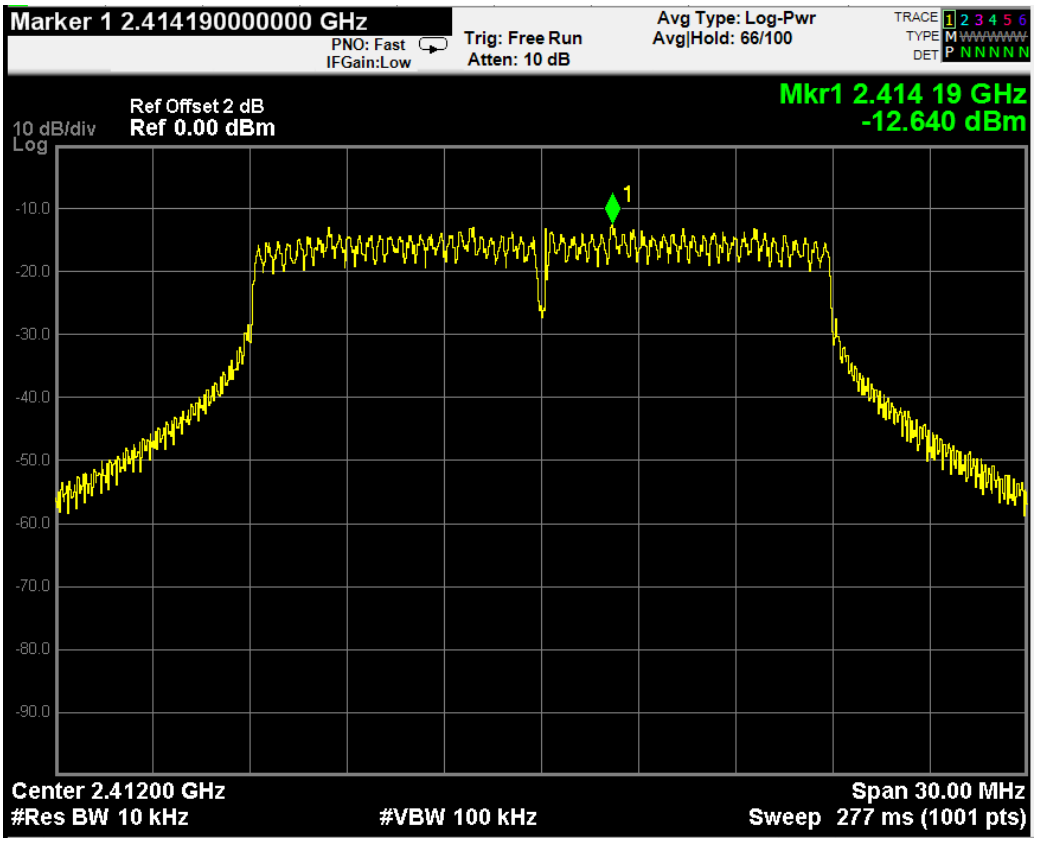
802.11g Ch06 2437 MHz ANT2



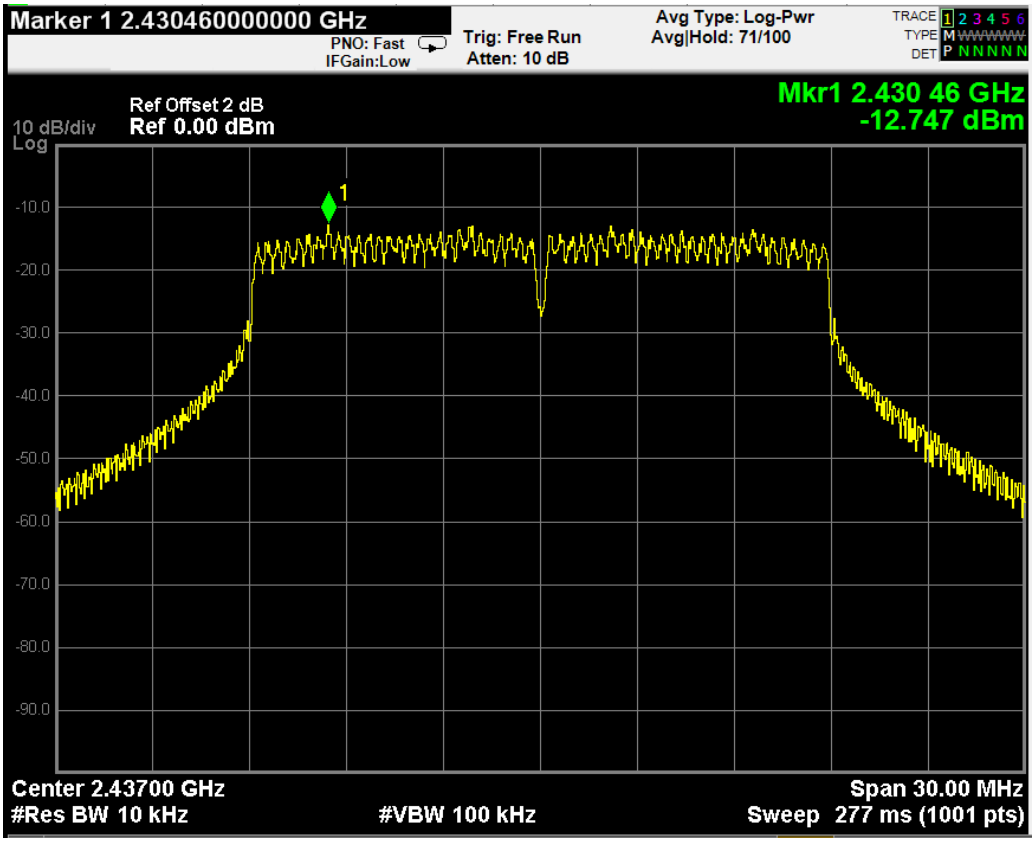
802.11g Ch11 2462 MHz ANT2



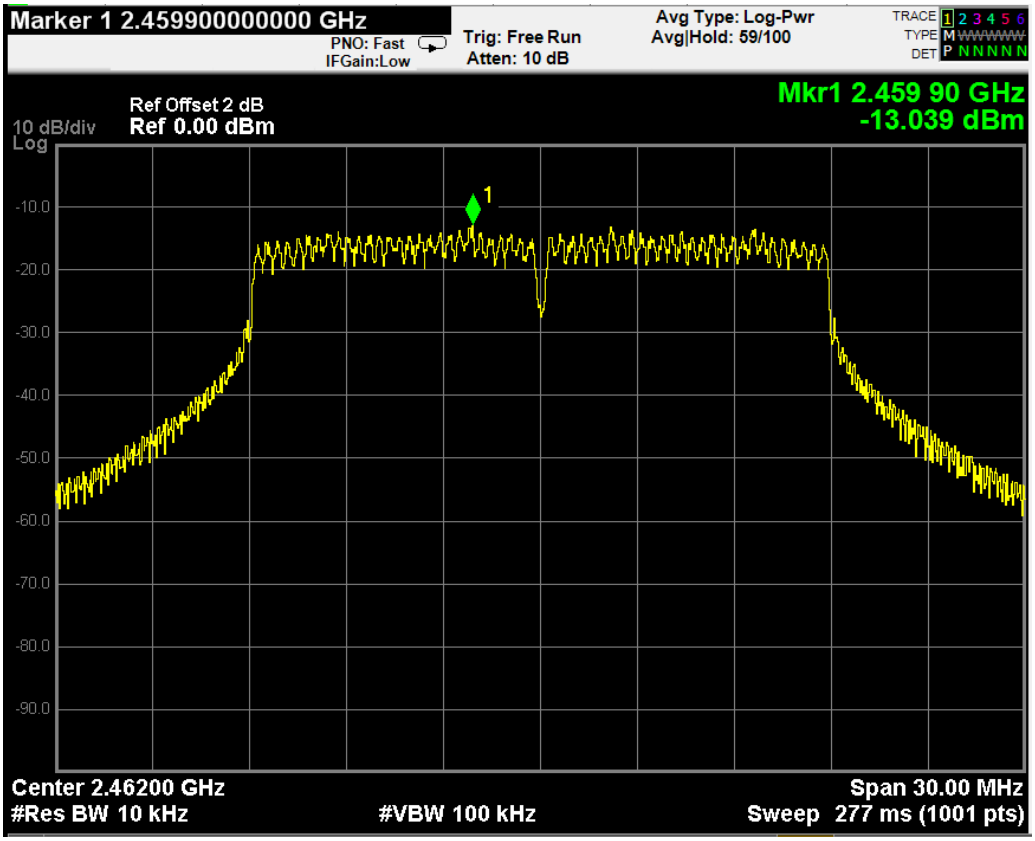
802.11n HT20 Ch01 2412 MHz ANT2



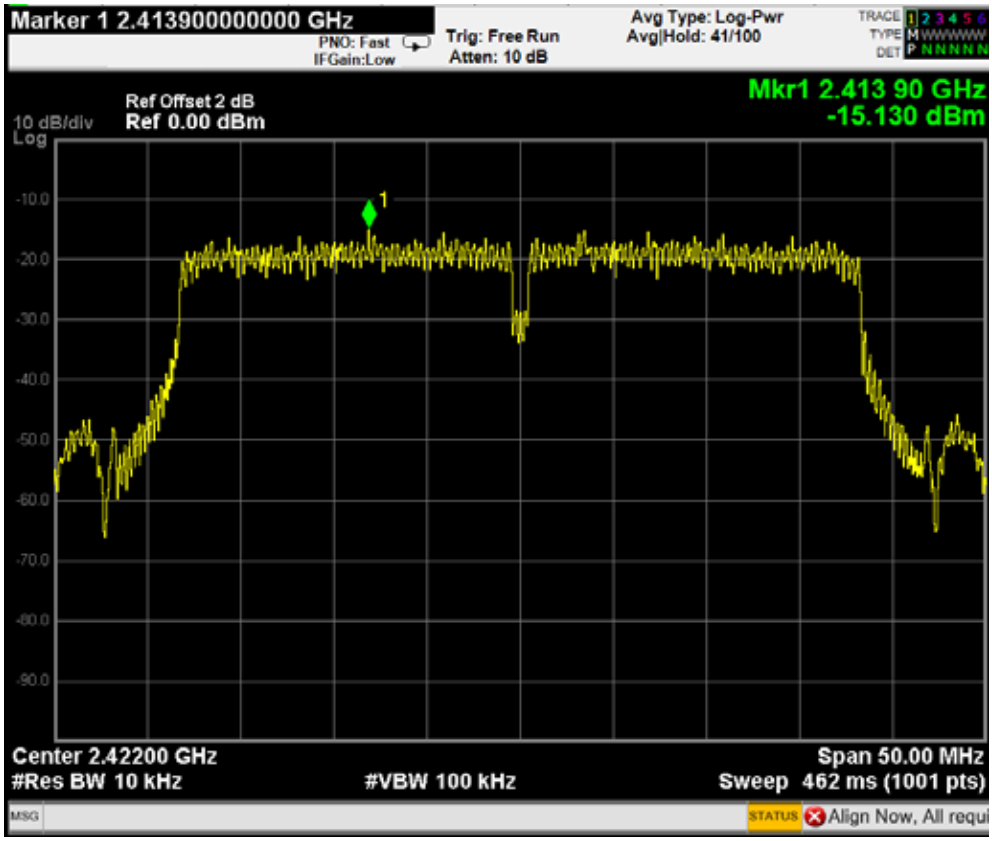
802.11n HT20 Ch06 2437 MHz ANT2



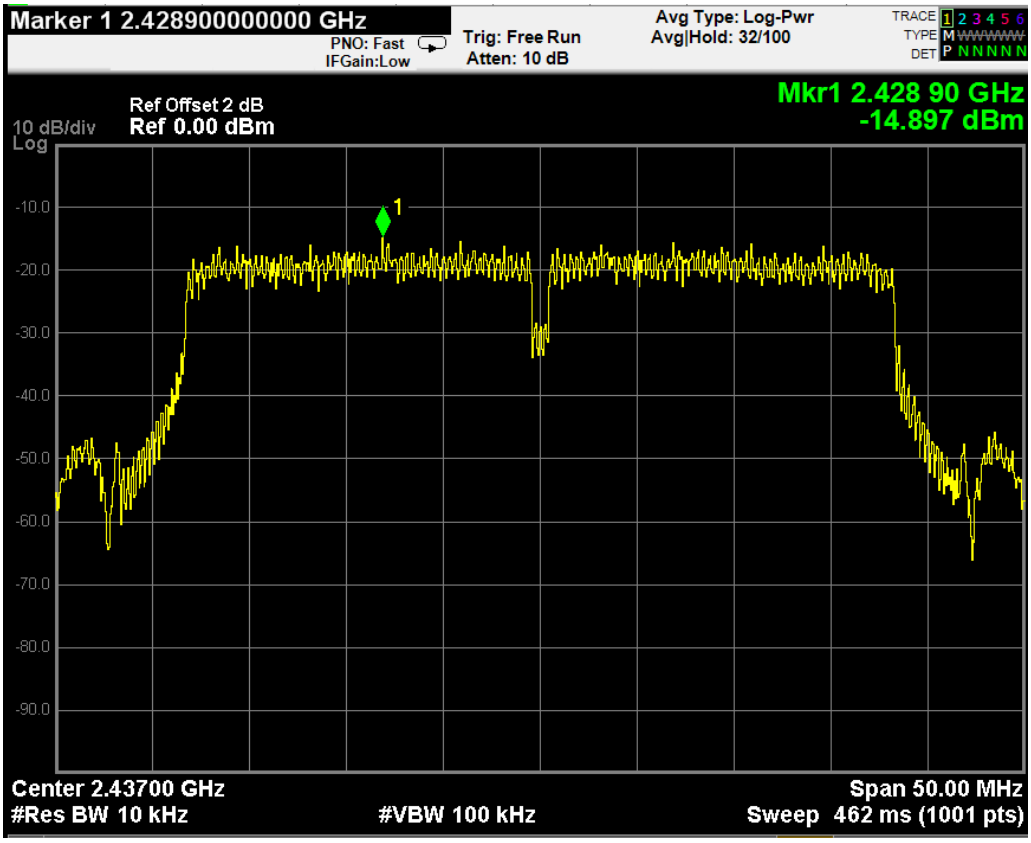
802.11n HT20 Ch11 2462 MHz ANT2



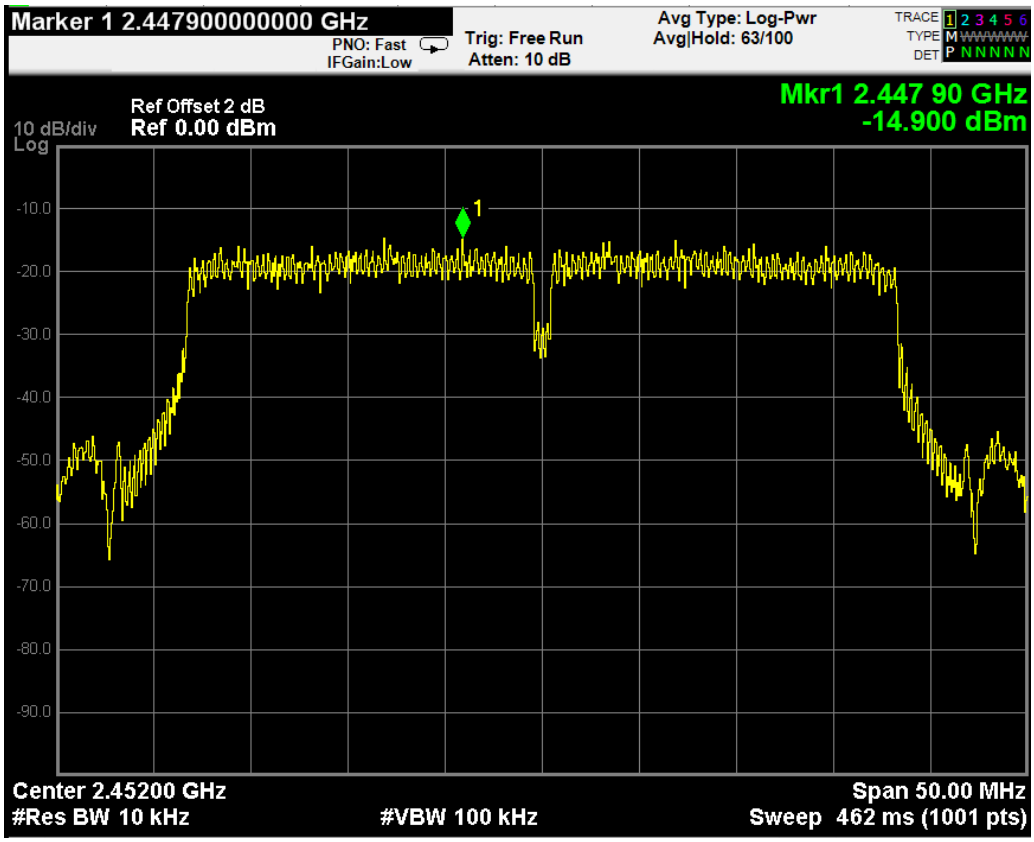
802.11n HT40 Ch03 2422 MHz ANT2



802.11n HT40 Ch06 2437 MHz ANT2



802.11n HT40 Ch09 2452 MHz ANT2



10 DEVIATION TO TEST SPECIFICATIONS

None.