

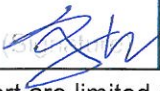
TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042
Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC1708-0156(1)
2. Customer
 - Name : POINT MOBILE CO.,LTD
 - Address : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709
3. Use of Report : FCC & IC Original Grant
4. Product Name / Model Name : Mobile Computer / FCC: PM66, IC: PM66G
FCC ID : V2X-PM66G / IC : 10664A-PM66G
5. Test Method Used : KDB 558074, ANSI C63.10-2013
Test Specification : FCC Part 15 Subpart C.247
RSS-247 Issue 2 (2017-02), RSS-GEN Issue 4 (2014-11)
6. Date of Test : 2017.06.12 ~ 2017.06.30
7. Testing Environment : See appended test report.
8. Test Result : Refer to the attached test result.

Affirmation	Tested by	Technical Manager
	Name : JaeHyeok Bang 	Name : GeunKi Son  (signature)

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

2017 . 09 . 04 .

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description
DRTFCC1708-0156	Aug. 21, 2017	Initial issue
DRTFCC1708-0156(1)	Sep. 04, 2017	Edit 1 page typo

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1. GENERAL INFORMATION

1.1 Testing Laboratory

DT&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The site is constructed in conformance with the requirements.		
- FCC MRA Accredited Test Firm No. : KR0034		
- IC Test site No. : 5740A-3		
www.dtnet.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

1.2 Test Environment

Ambient Condition	
▪ Temperature	+23 ~ +24 °C
▪ Relative Humidity	42 % ~ 47 %

1.3 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014 and ANSI C 63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Transmitter Output Power	0.71 dB (The confidence level is about 95 %, $k = 2$)
Conducted spurious emission	0.94 dB (The confidence level is about 95 %, $k = 2$)
AC conducted emission	2.4 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (1 GHz Below)	5.1 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.4 dB (The confidence level is about 95 %, $k = 2$)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, $k = 2$)

1.4 Details of Applicant

Applicant : POINT MOBILE CO.,LTD
Address : B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea
153-709
Contact person : Wilson Park

1.5 Description of EUT

EUT	Mobile computer
Model Name	FCC: PM66 IC: PM66G
Add Model Name	NA
Power Supply	DC 3.85 V
Hardware version	MP
Software version	76.00
Frequency Range	2.4GHz Band ▪ 802.11b/g/n(HT20) : 2412 MHz ~ 2462 MHz
Max. RF Output Power	2.4GHz Band ▪ 802.11b : 18.78 dBm ▪ 802.11g : 21.97 dBm ▪ 802.11n (HT20) : 21.54 dBm
Modulation Type	802.11b : DSSS/CCK 802.11g/n : OFDM
Antenna Specification	Internal Antenna ▪ 2.4GHz Band Max. peak gain : 1.230 dBi

2. SUMMARY OF TESTS

FCC Part	RSS Std.	Parameter	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247 [5.2]	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		C
15.247(d)	RSS-247 [5.5]	Out of Band Emissions / Band Edge	20 dBc in any 100 kHz BW		C
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8 dBm/3 kHz		C
-	RSS-Gen [6.6]	Occupied Bandwidth (99 %)	RSS-Gen(6.6)		C
15.247(d) 15.205 15.209	RSS-247 [5.5] RSS-GEN [8.9] RSS-GEN [8.10]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	FCC 15.209 limits	Radiated	C ^{Note 2}
15.207	RSS-Gen [8.8]	AC Line Conducted Emissions	FCC 15.207 limits	AC Line Conducted	C
15.203	RSS-Gen [8.3]	Antenna Requirements	FCC 15.203	-	C
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable Note 2: This test item was performed in each axis and the worst case data was reported.					

3. TEST METHODOLOGY

Generally the tests were performed according to the [KDB558074 D01 v04](#). And [ANSI C63.10-2013](#) was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the test mode to fix the TX frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB 558074. So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB 558074. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10 as stated on section 12.1 of the KDB 558074.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axes.

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. ANTENNA REQUIREMENTS

5.1 According to FCC 47 CFR §15. 203 & RSS-Gen [8.3]

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The internal antenna is attached on the main PCB using the special spring tension. (Refer to Internal Photo file.)
Therefore this E.U.T Complies with the requirement of §15.203.**

6. TEST RESULT

6.1 6 dB Bandwidth

Test Requirements and limit, §15.247(a)

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

■ TEST CONFIGURATION

Refer to the APPENDIX I.

■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB558074**

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
(RBW : 100 kHz / VBW : 300 kHz)
3. Detector = **Peak**.
4. Trace mode = **Max hold**.
5. Sweep = **Auto couple**.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

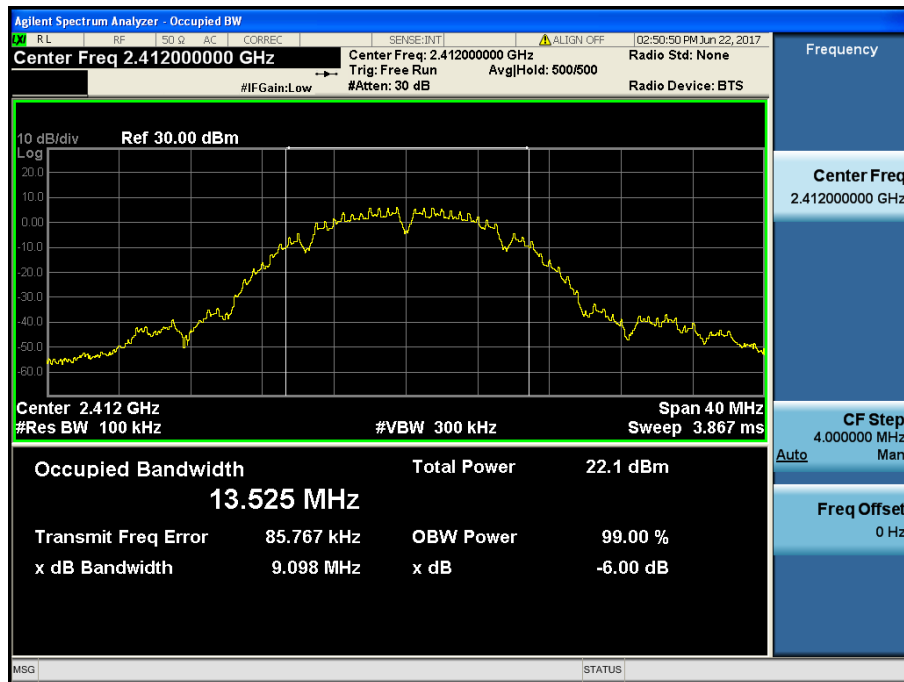
■ TEST RESULTS: **Comply**

Test Mode	Data Rate	Frequency [MHz]	Test Results [MHz]
802.11b	1 Mbps	2412	9.098
		2437	8.576
		2462	8.569
802.11g	6 Mbps	2412	16.410
		2437	16.430
		2462	16.350
802.11n (HT20)	MCS 0	2412	17.620
		2437	17.650
		2462	17.300

RESULT PLOTS

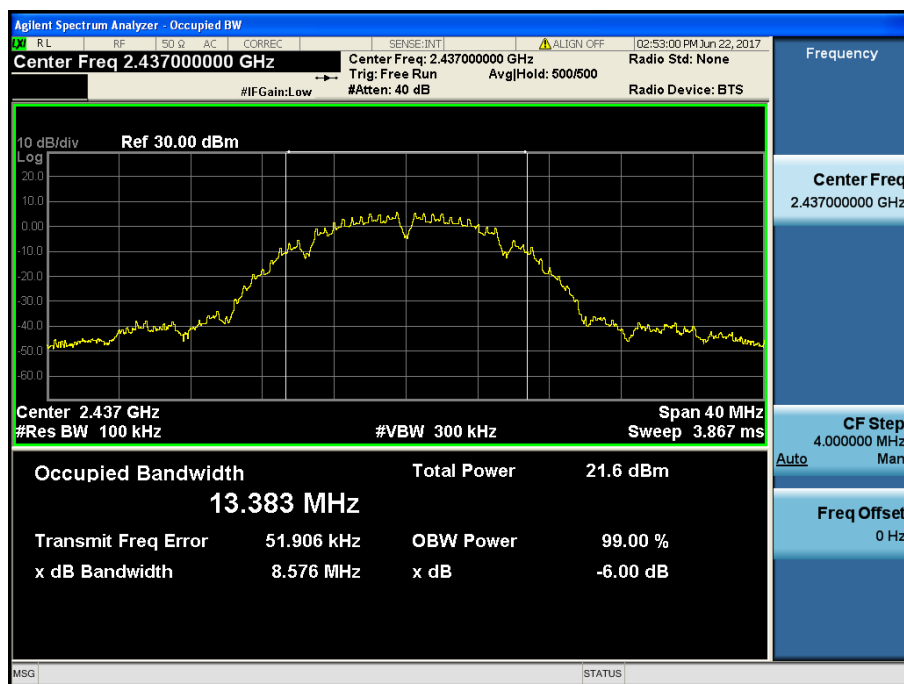
6 dB Bandwidth

Test Mode: 802.11b & 1 Mbps & 2412 MHz



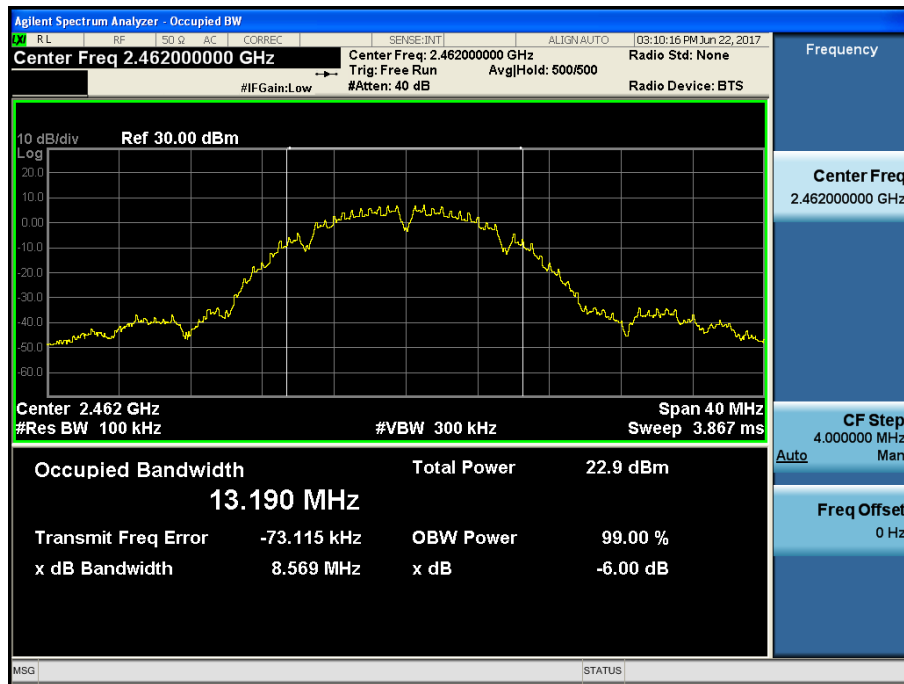
6 dB Bandwidth

Test Mode: 802.11b & 1 Mbps & 2437 MHz



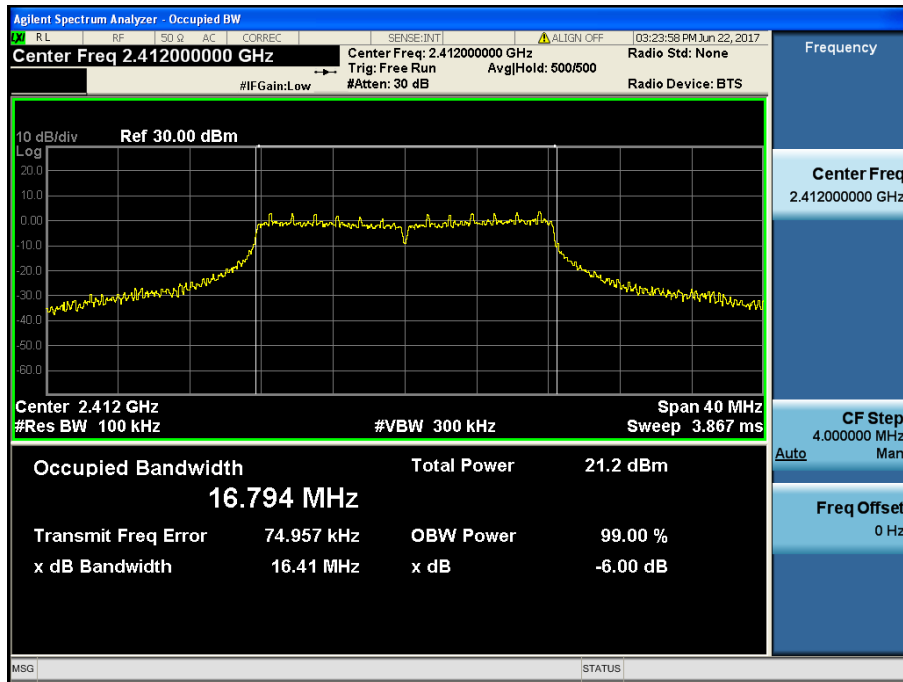
6 dB Bandwidth

Test Mode: 802.11b & 1 Mbps & 2462 MHz



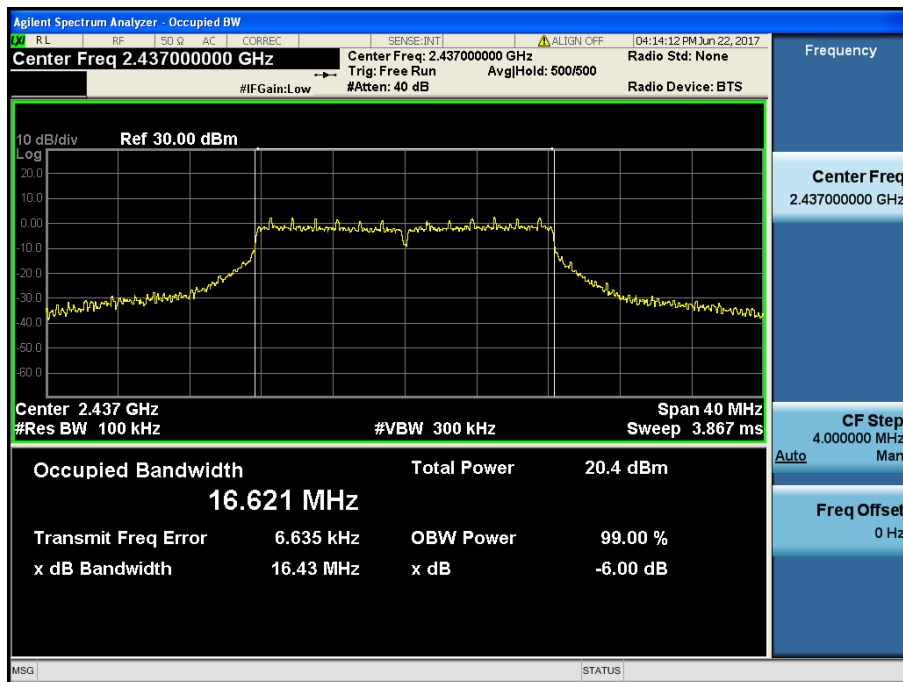
6 dB Bandwidth

Test Mode: 802.11g & 6 Mbps & 2412 MHz



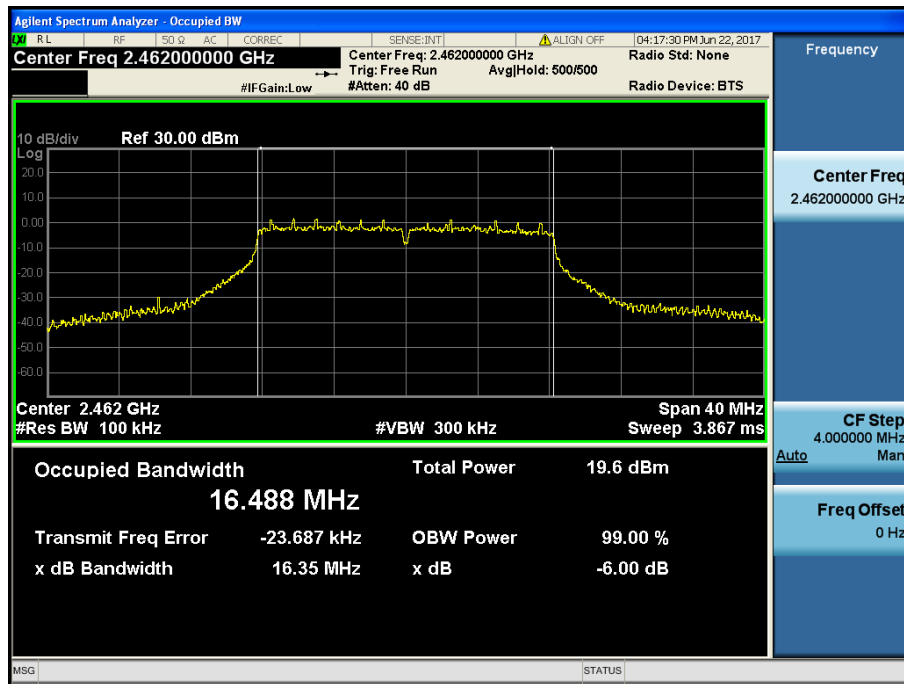
6 dB Bandwidth

Test Mode: 802.11g & 6 Mbps & 2437 MHz



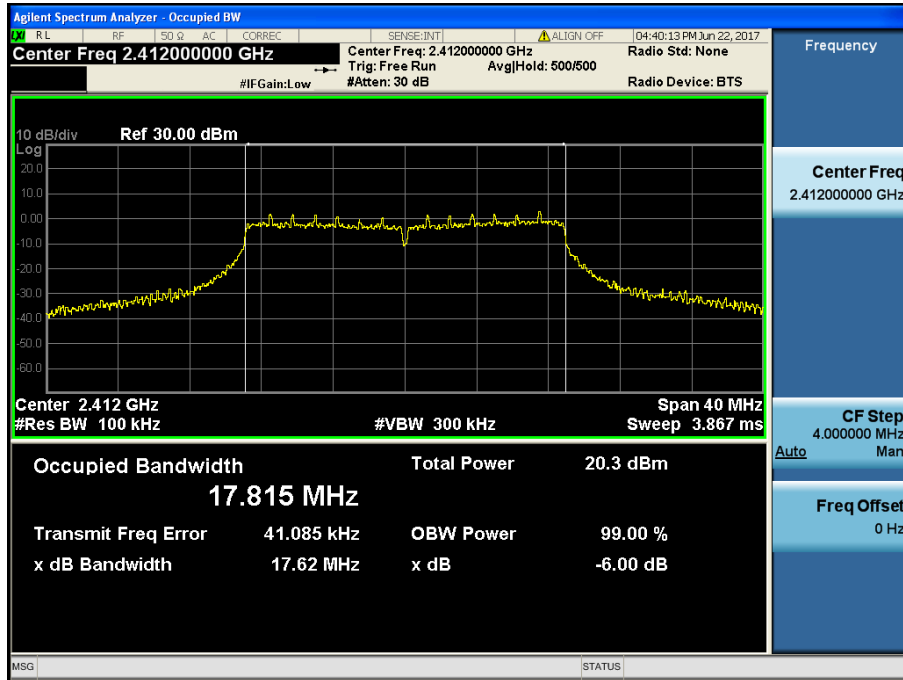
6 dB Bandwidth

Test Mode: 802.11g & 6 Mbps & 2462 MHz



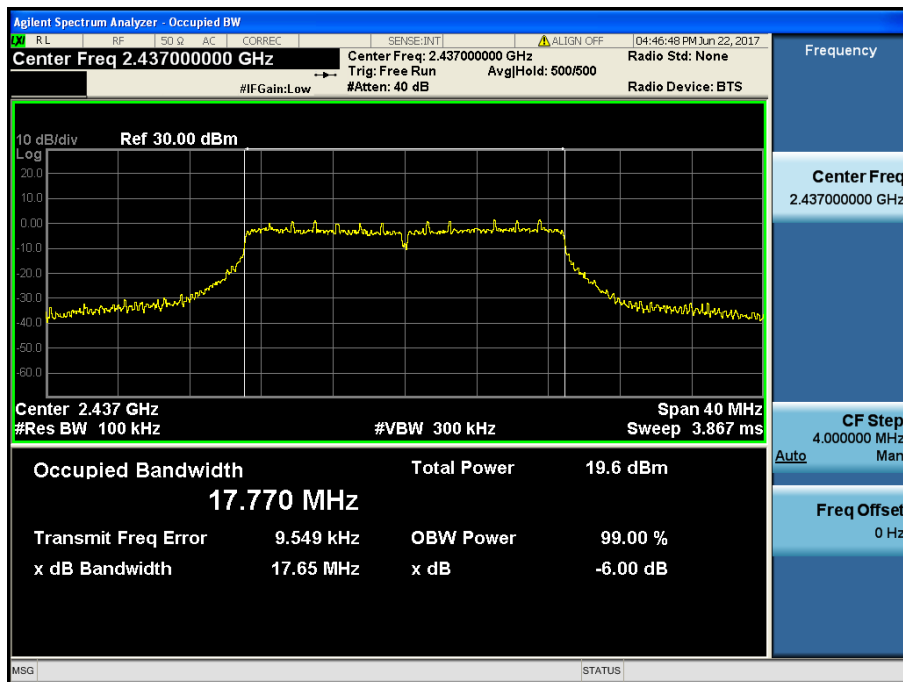
6 dB Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2412 MHz



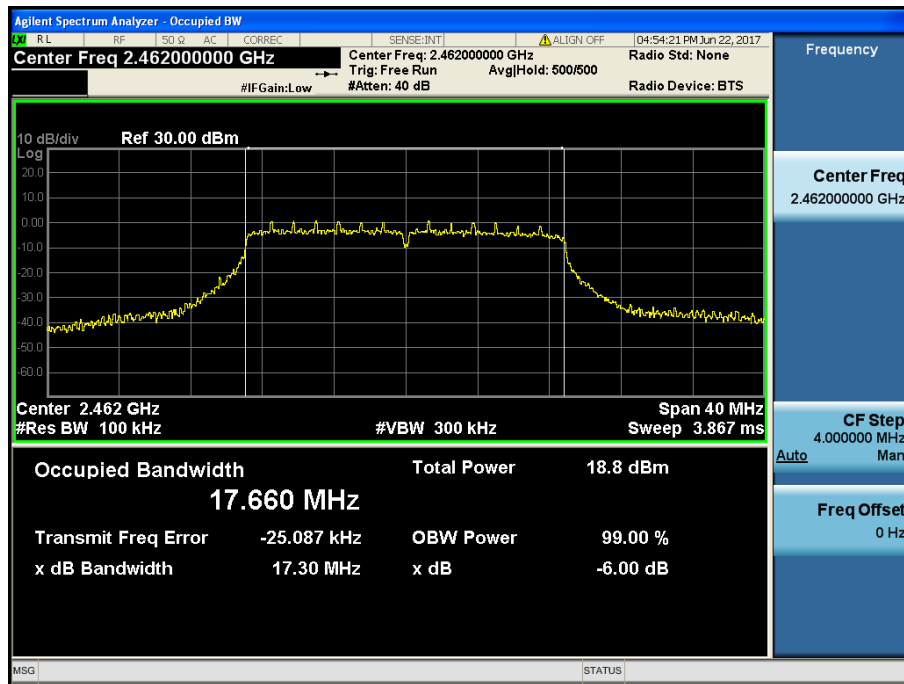
6 dB Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2437 MHz



6 dB Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2462 MHz

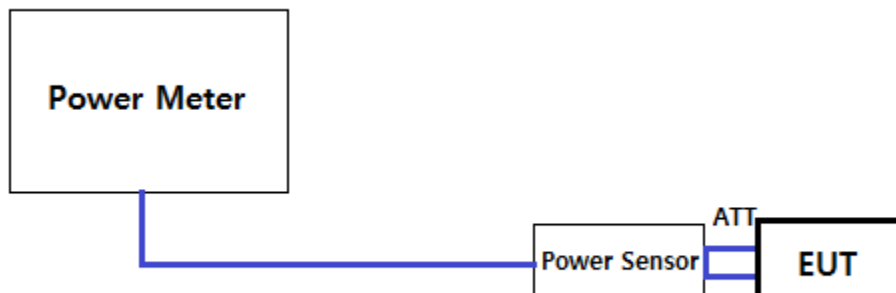


6.2 Maximum Peak Conducted Output Power

Test Requirements and limit, §15.247(b)

The maximum permissible conducted output power is **1 Watt**.

■ TEST CONFIGURATION



■ TEST PROCEDURE

1. PKPM1 Peak power meter method of KDB558074

The maximum conducted output powers were measured using a broadband peak RF power meter which has greater video bandwidth than DUT's DTS bandwidth and utilize a fast-responding diode detector.

2. Method AVGPM-G (Measurement using a gated RF average power meter) of KDB558074

The average conducted output powers were measured using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.

■ TEST RESULTS: **Comply**

- Measurement Data:

- Test Results

Mode	Channel	Frequency [MHz]	Detector	Test Result [dBm]							
				DATA RATE [Mbps]							
				1	2	5.5	11	NA	NA	NA	NA
802.11b	1	2412	PK	17.91	17.88	17.90	17.85	-	-	-	-
			AV	15.31	15.22	15.25	15.26	-	-	-	-
	6	2437	PK	17.62	17.55	17.61	17.52	-	-	-	-
			AV	14.95	14.88	14.81	14.91	-	-	-	-
	11	2462	PK	18.78	18.75	18.77	18.71	-	-	-	-
			AV	16.14	16.11	16.05	16.09	-	-	-	-

Mode	Channel	Frequency [MHz]	Detector	Test Result [dBm]							
				DATA RATE [Mbps]							
				6	9	12	18	24	36	48	54
802.11g	1	2412	PK	21.97	21.88	21.91	21.95	21.92	21.90	21.85	21.88
			AV	14.77	14.71	14.75	14.66	14.70	14.69	14.62	14.65
	6	2437	PK	21.61	21.55	21.60	21.52	21.49	21.52	21.55	21.57
			AV	14.23	14.21	14.15	14.11	14.16	14.19	14.20	14.15
	11	2462	PK	21.71	21.65	21.68	21.62	21.58	21.61	21.63	21.65
			AV	13.38	13.33	13.29	13.19	13.22	13.31	13.35	13.30

Mode	Channel	Frequency [MHz]	Detector	Test Result [dBm]							
				DATA RATE [MCS]							
				0	1	2	3	4	5	6	7
802.11n (HT20)	1	2412	PK	21.48	21.41	21.45	21.40	21.35	21.31	21.33	21.41
			AV	13.87	13.81	13.77	13.80	13.69	13.71	13.77	13.78
	6	2437	PK	21.54	21.44	21.49	21.41	21.43	21.48	21.41	21.48
			AV	13.31	13.22	13.25	13.19	13.21	13.26	13.25	13.22
	11	2462	PK	20.63	20.55	20.51	20.49	20.44	20.41	20.46	20.55
			AV	12.48	12.44	12.41	12.38	12.33	12.36	12.41	12.45

6.3 Maximum Power Spectral Density

Test requirements and limit, §15.247(e)

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

■ TEST CONFIGURATION

Refer to the APPENDIX I.

■ Test Procedure

Method PKPSD of KDB558074 is used.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to **1.5 times** the DTS bandwidth.
3. Set the RBW to : **3 kHz ≤ RBW ≤ 100 kHz**
4. Set the VBW ≥ **3 x RBW**
5. Detector = **Peak**
6. Sweep time = **Auto couple**
7. Trace mode = **Max hold**.
8. Allow trace to fully stabilize.
9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

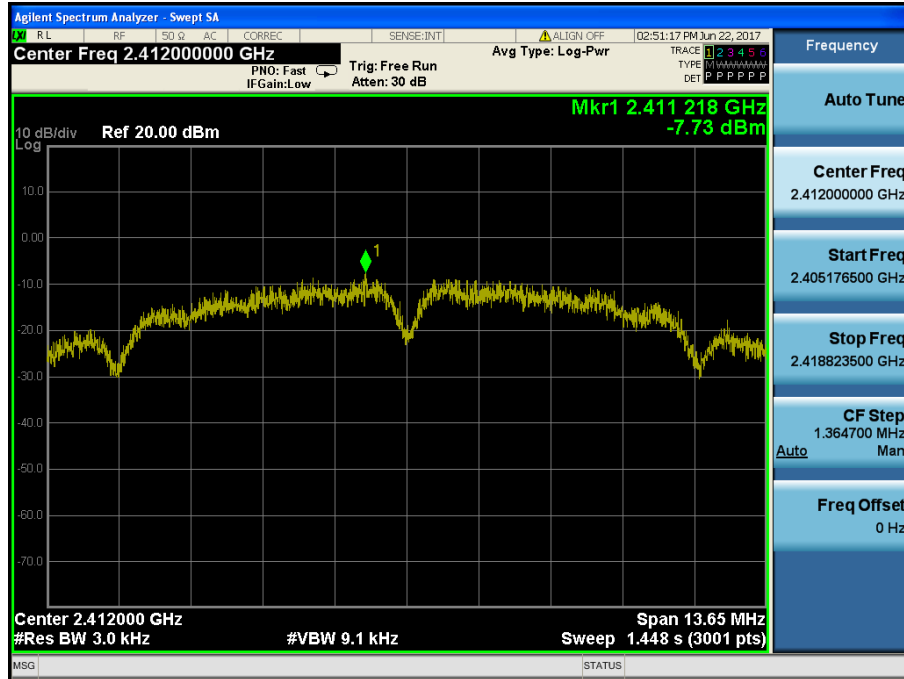
■ TEST RESULTS: **Comply**

Test Mode	Data Rate	Frequency [MHz]	RBW	PKPSD [dBm]
802.11b	1 Mbps	2412	3 kHz	-7.73
		2437	3 kHz	-9.04
		2462	3 kHz	-5.92
802.11g	6 Mbps	2412	3 kHz	-9.57
		2437	3 kHz	-11.86
		2462	3 kHz	-11.76
802.11n HT20	MCS 0	2412	3 kHz	-11.79
		2437	3 kHz	-12.35
		2462	3 kHz	-13.77

RESULT PLOTS

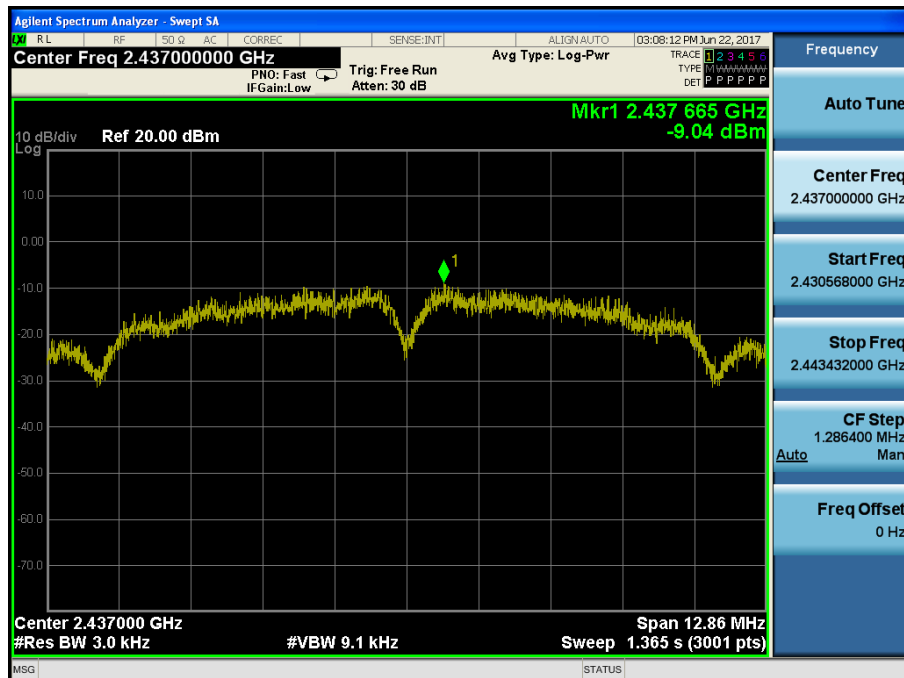
Maximum PKPSD

Test Mode: 802.11b & 1 Mbps & 2412 MHz



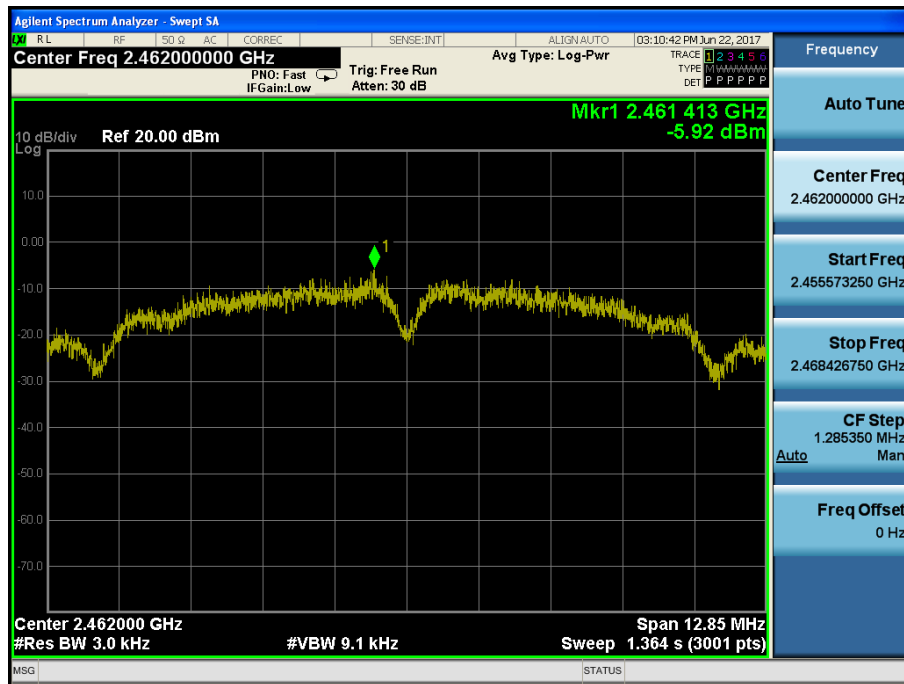
Maximum PKPSD

Test Mode: 802.11b & 1 Mbps & 2437 MHz



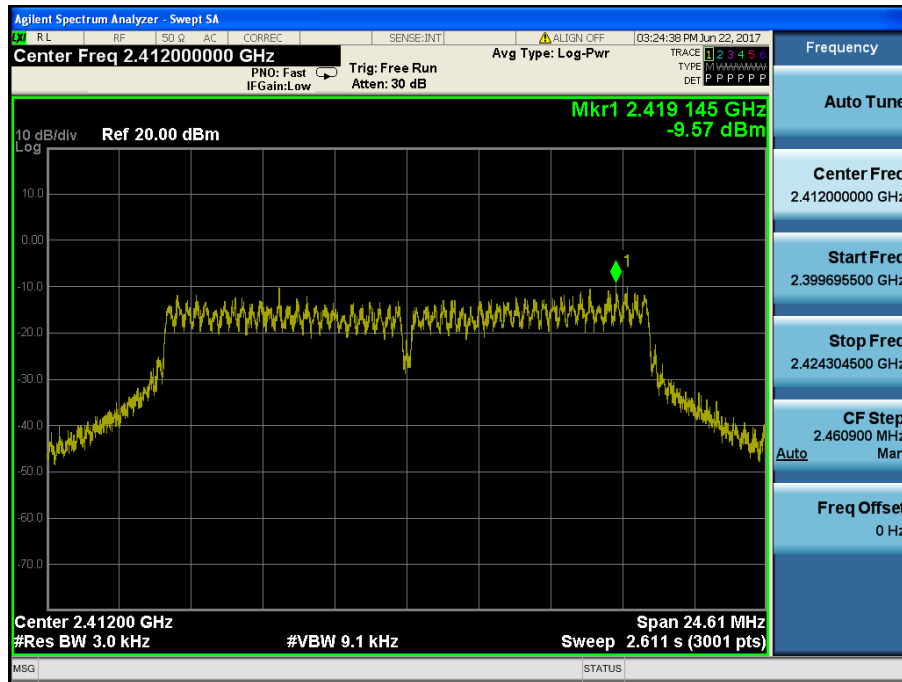
Maximum PKPSD

Test Mode: 802.11b & 1 Mbps & 2462 MHz



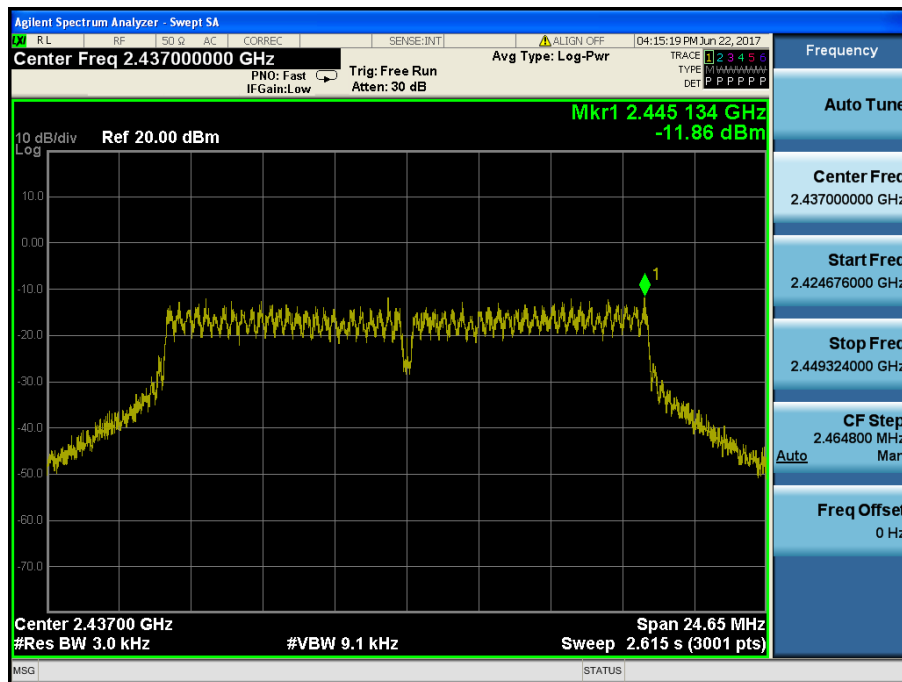
Maximum PKPSD

Test Mode: 802.11g & 6 Mbps & 2412 MHz



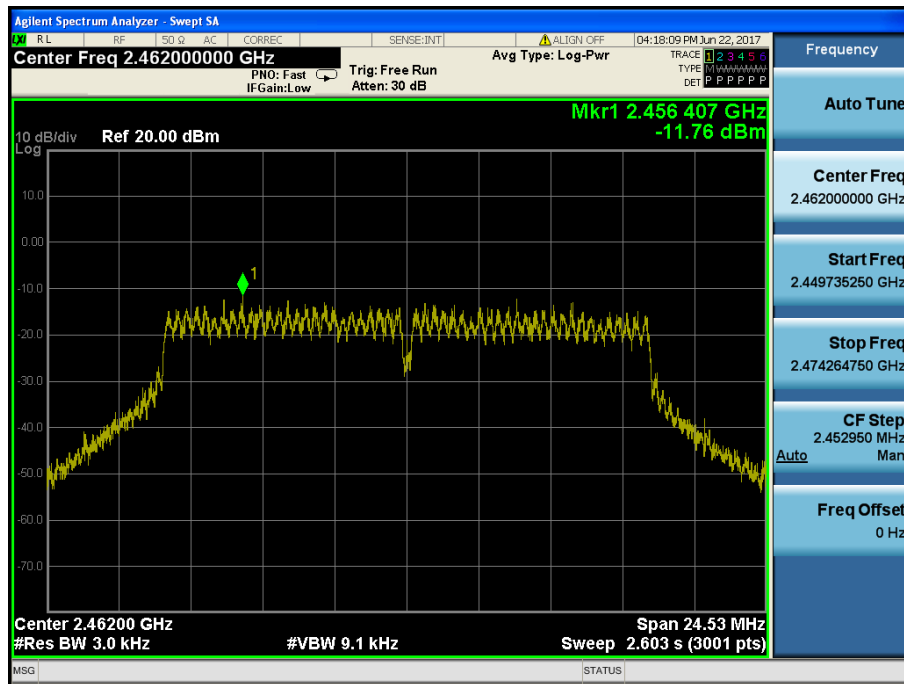
Maximum PKPSD

Test Mode: 802.11g & 6 Mbps & 2437 MHz



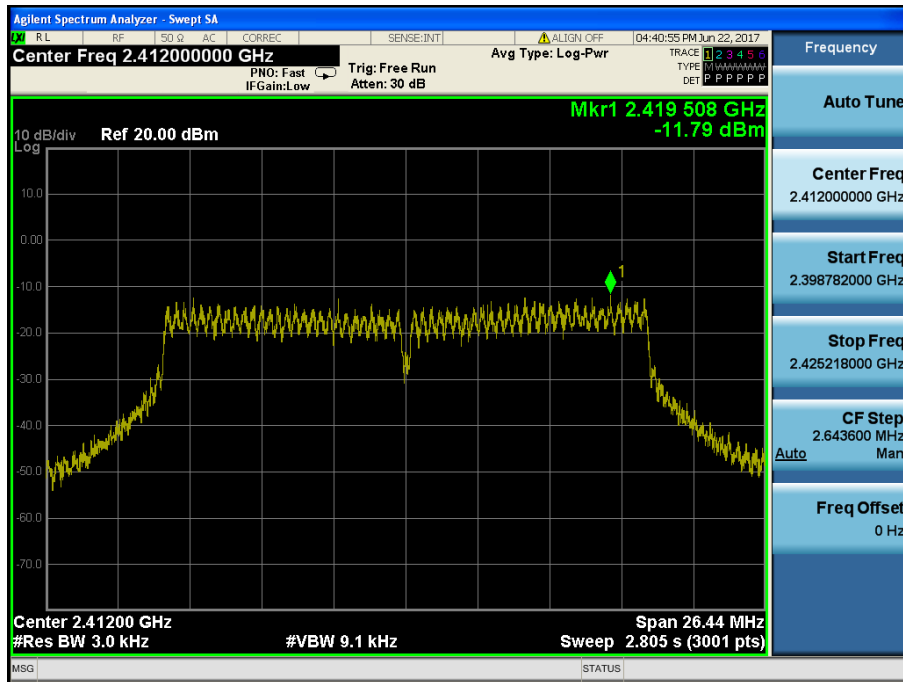
Maximum PKPSD

Test Mode: 802.11g & 6 Mbps & 2462 MHz



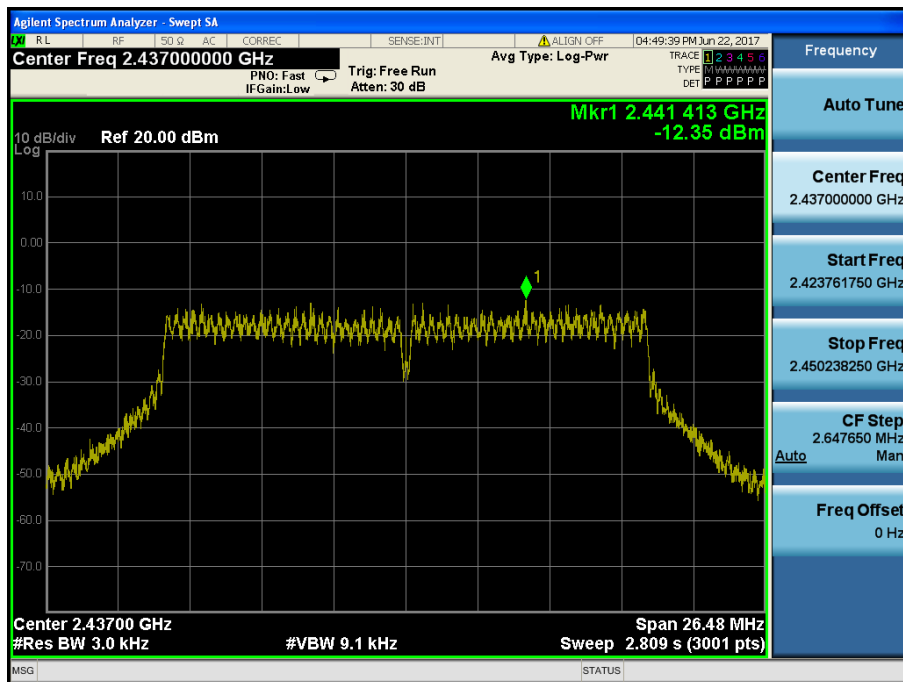
Maximum PKPSD

Test Mode: 802.11n(HT20) & MCS 0 & 2412 MHz



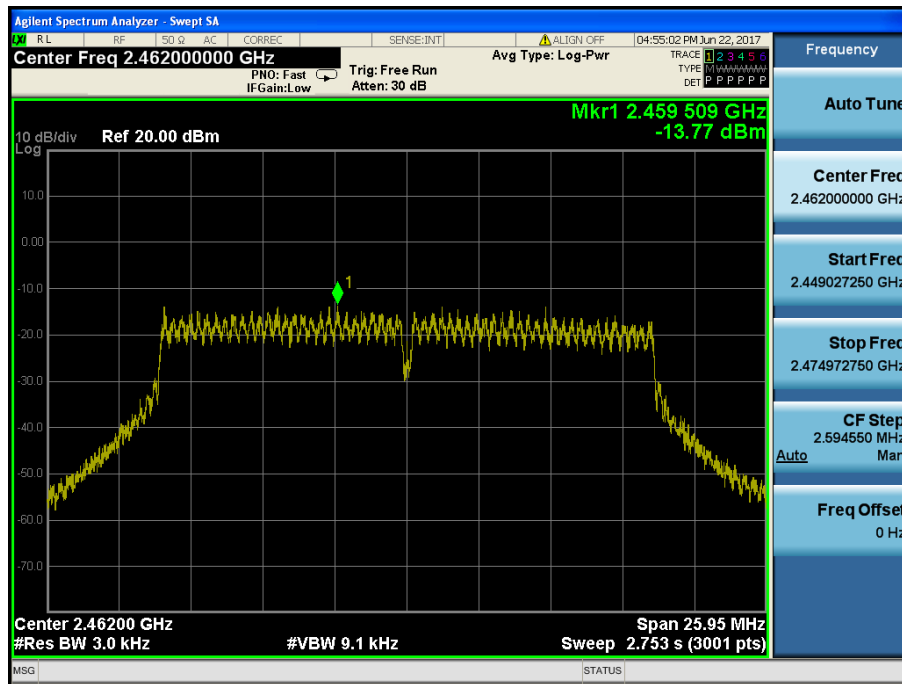
Maximum PKPSD

Test Mode: 802.11n(HT20) & MCS 0 & 2437 MHz



Maximum PKPSD

Test Mode: 802.11n(HT20) & MCS 0 & 2462 MHz



6.4 Out of Band Emissions at the Band Edge / Conducted Spurious Emissions

Test requirements and limit, §15.247(d)

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions :

If the **peak output power procedure** is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated **by at least 20 dB** relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level.

In either case, attenuation to levels below the general emission limits specified in **§15.209(a)** is not required.

■ TEST CONFIGURATION

Refer to the APPENDIX I.

■ TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer.

- Measurement Procedure 1 – Reference Level

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = **100 kHz**.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = **Peak**.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow trace to fully stabilize**.
9. Use the peak marker function to determine the maximum PSD level.

- Measurement Procedure 2 - Unwanted Emissions

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = **100 kHz**. (**Actual 1 MHz , See below note**)
3. Set the VBW $\geq 3 \times$ RBW. (**Actual 3 MHz, See below note**)
4. Detector = **Peak**.
5. Ensure that the number of measurement points $\geq$ Span / RBW.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow the trace to stabilize**. (this may take some time, depending on the extent of the span)
9. Use the peak marker function to determine the maximum amplitude level.

Note: The conducted spurious emission was tested with below settings.

Frequency range: 9 kHz ~ 30 MHz

RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

Frequency range: 30 MHz ~ 10 GHz, 10 GHz ~25 GHz

RBW = 1 MHz, VBW = 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

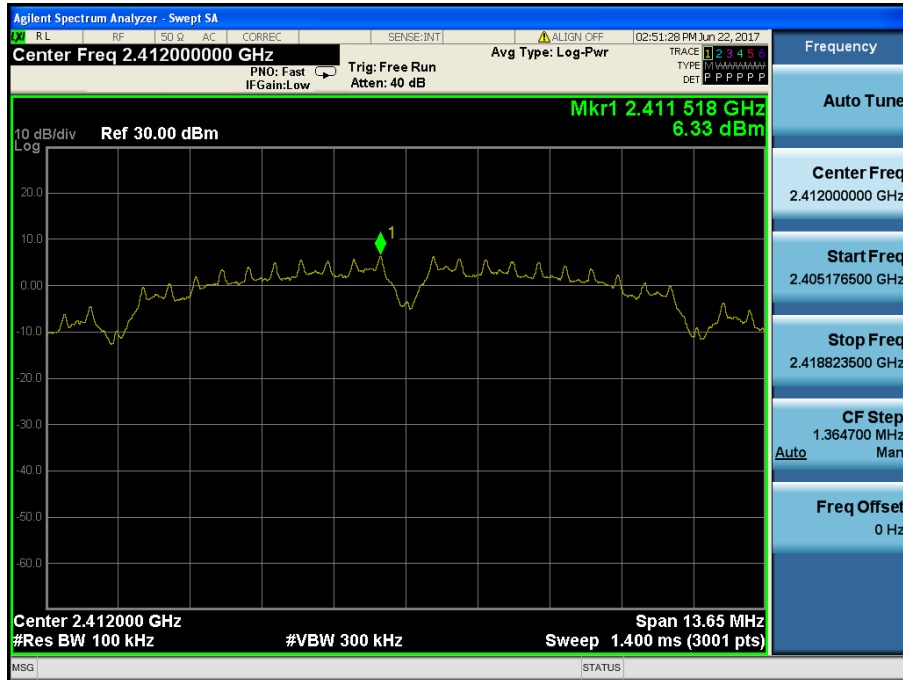
If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2001 to get accurate emission level within 100 kHz BW.

Also the path loss for conducted measurement setup was used as described on the Appendix I of this test report.

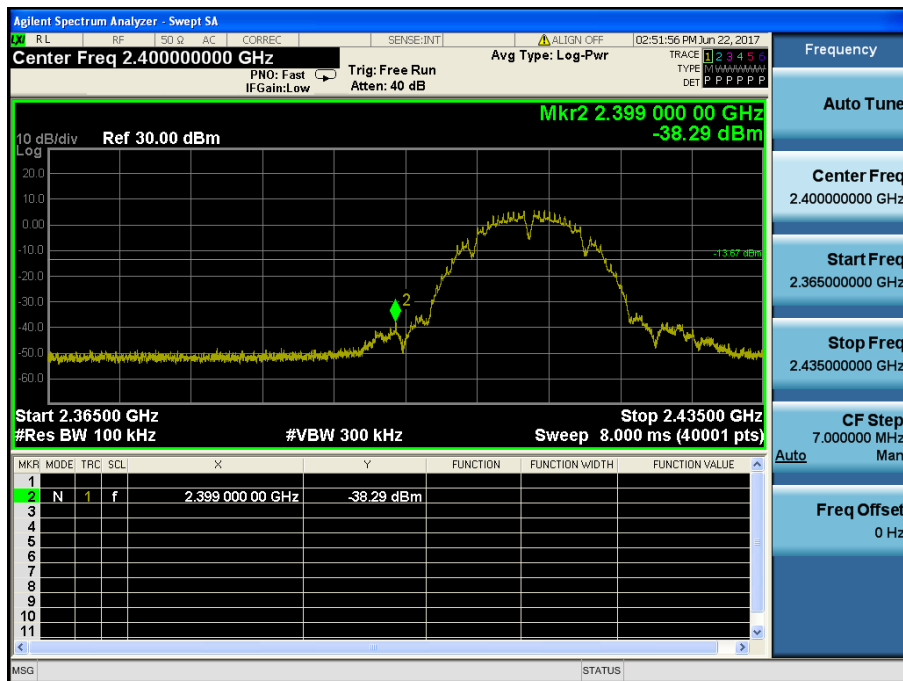
RESULT PLOTS

802.11b & 1 Mbps & 2412 MHz

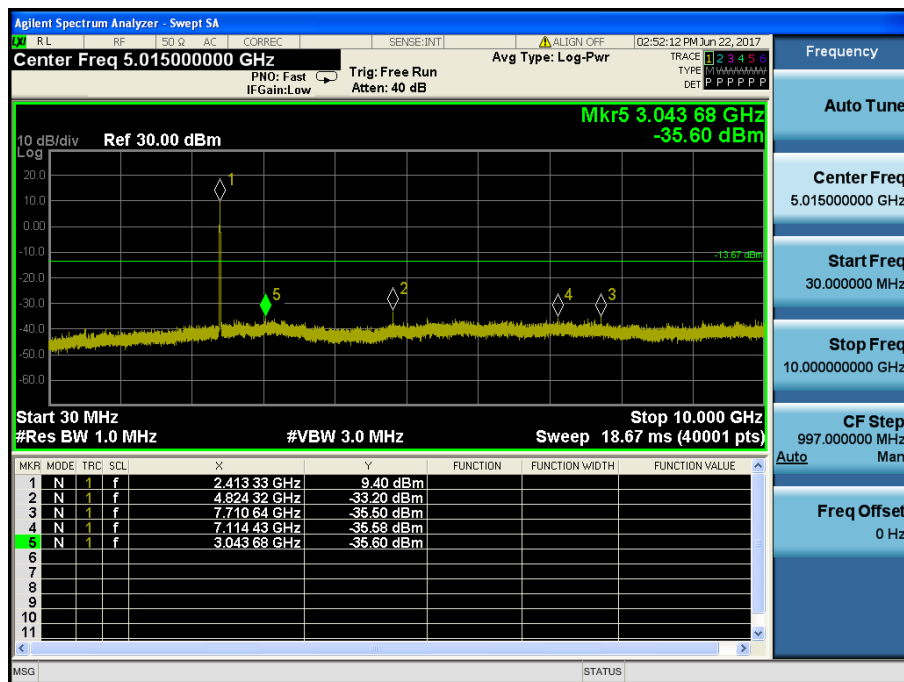
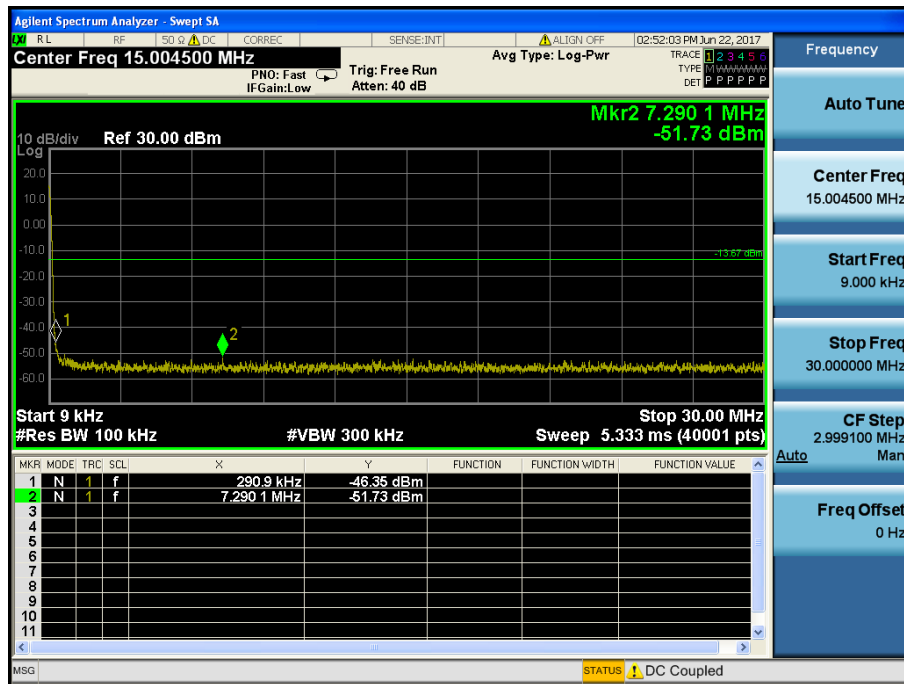
Reference



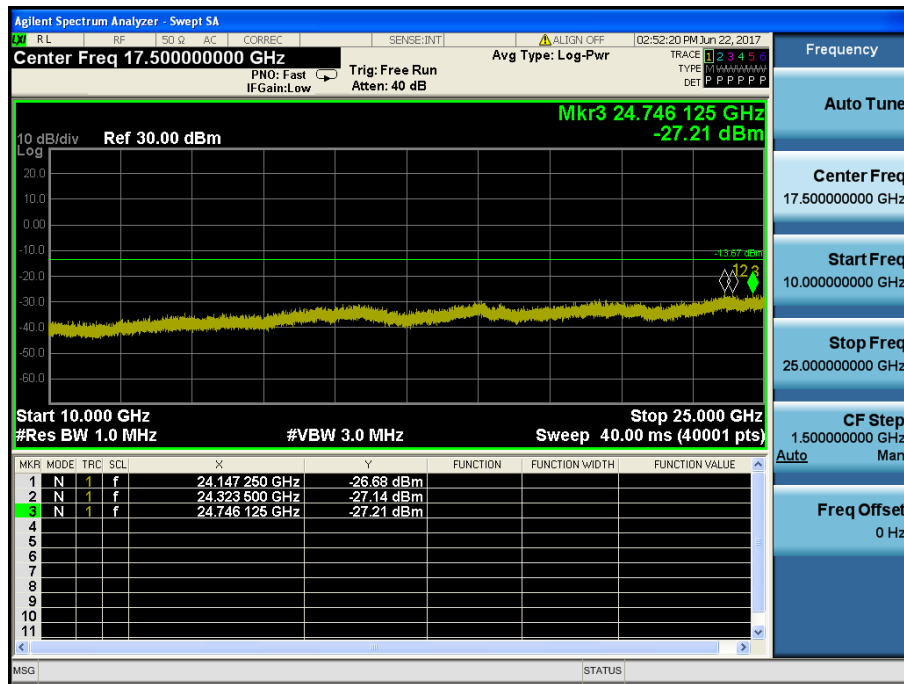
Low Band-edge



Conducted Spurious Emissions

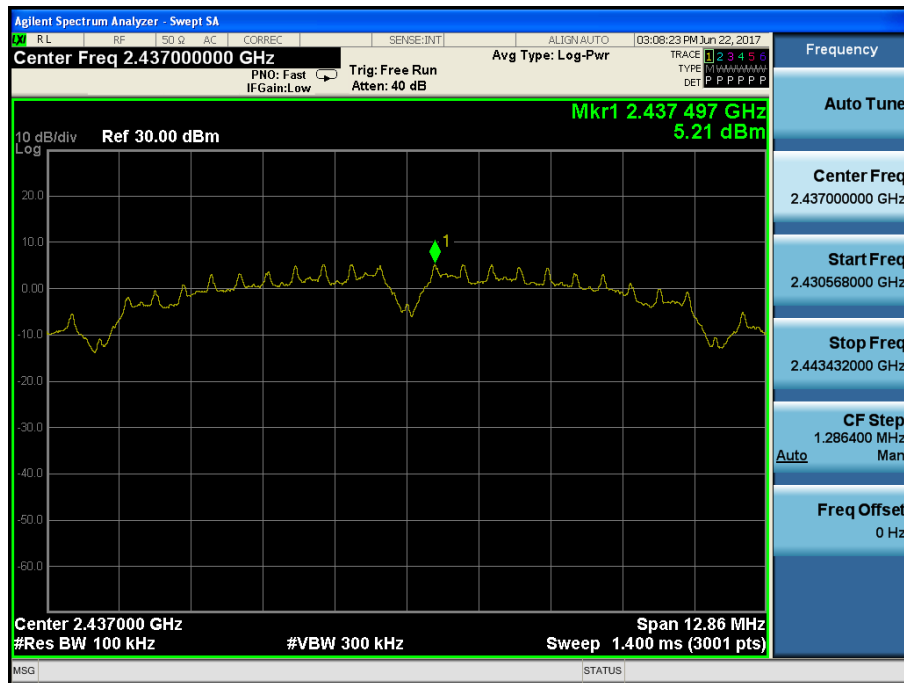


Conducted Spurious Emissions

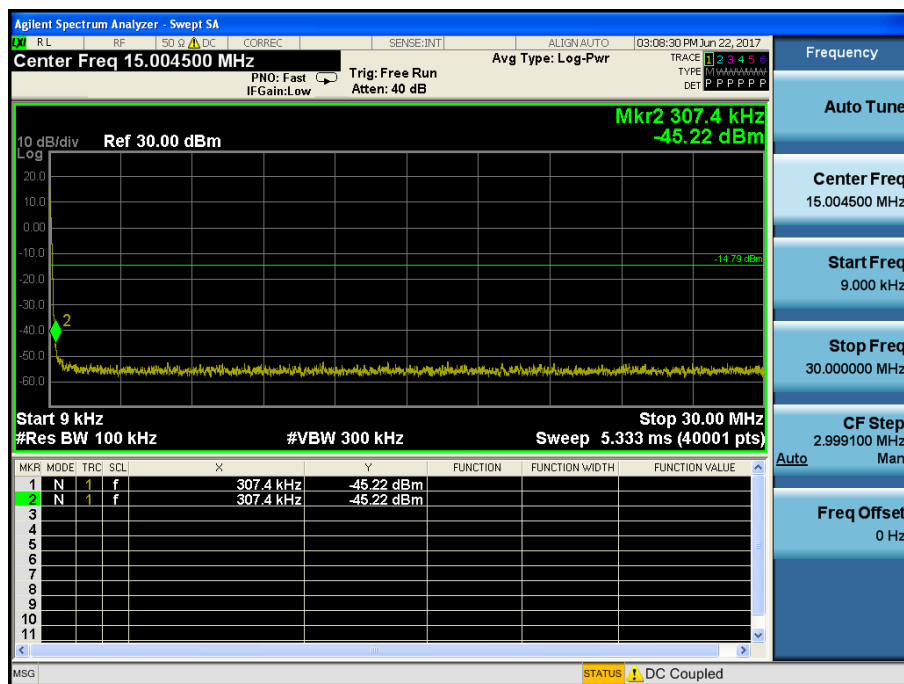


802.11b & 1 Mbps & 2437 MHz

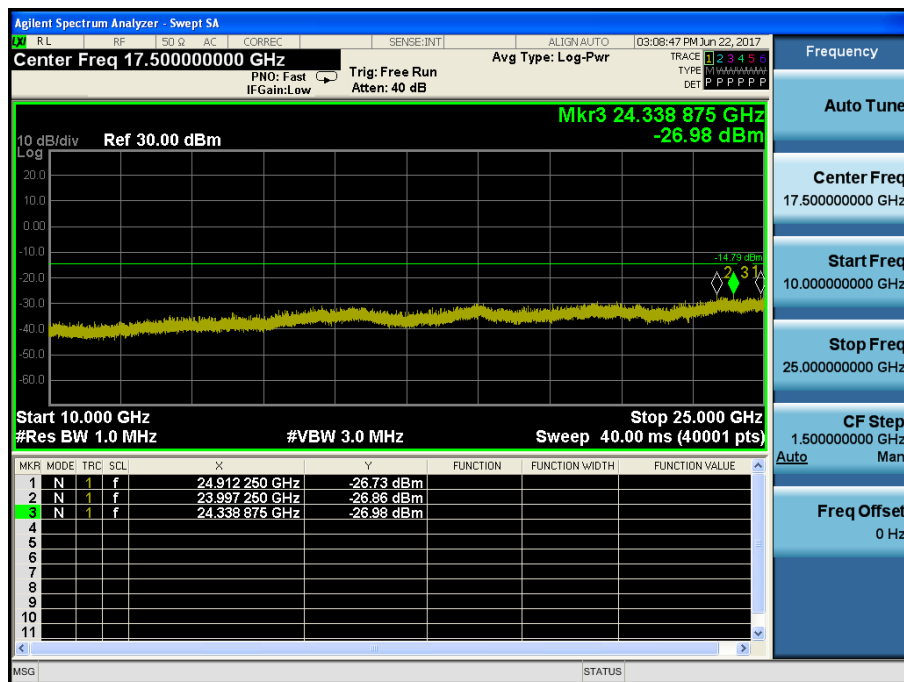
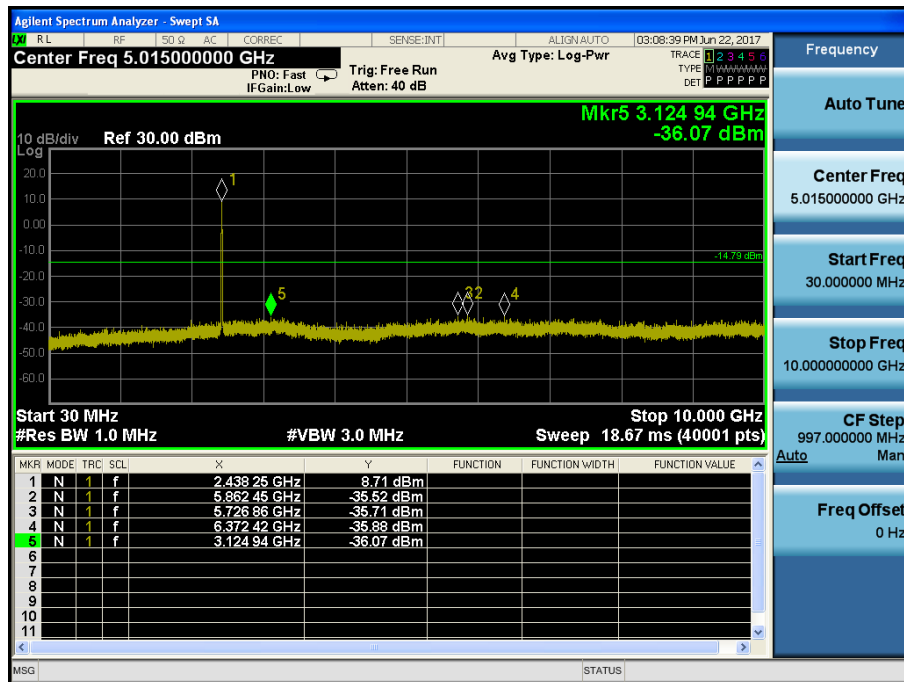
Reference



Conducted Spurious Emissions

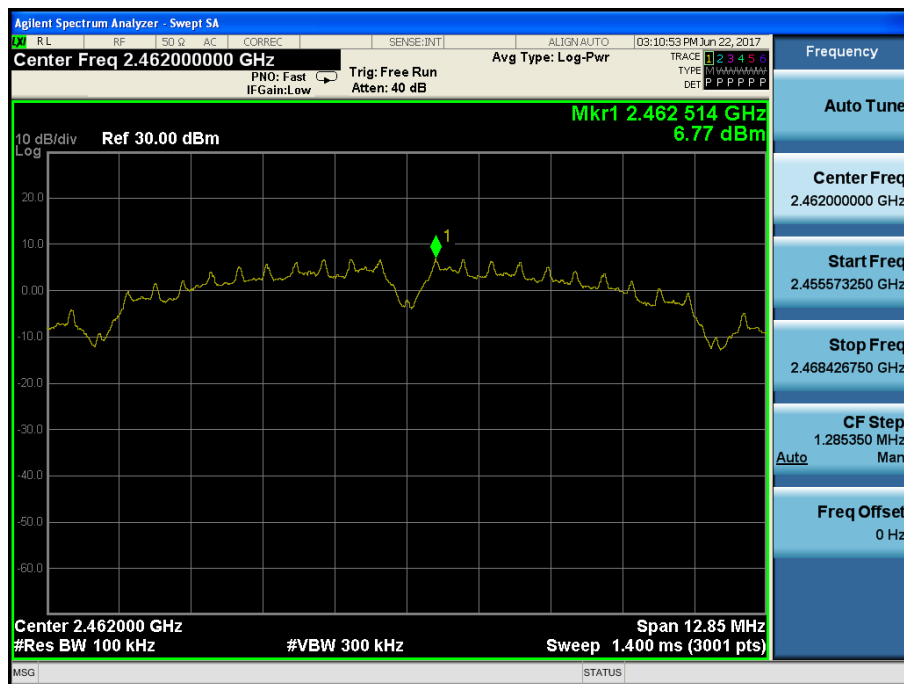


Conducted Spurious Emissions



802.11b & 1 Mbps & 2462 MHz

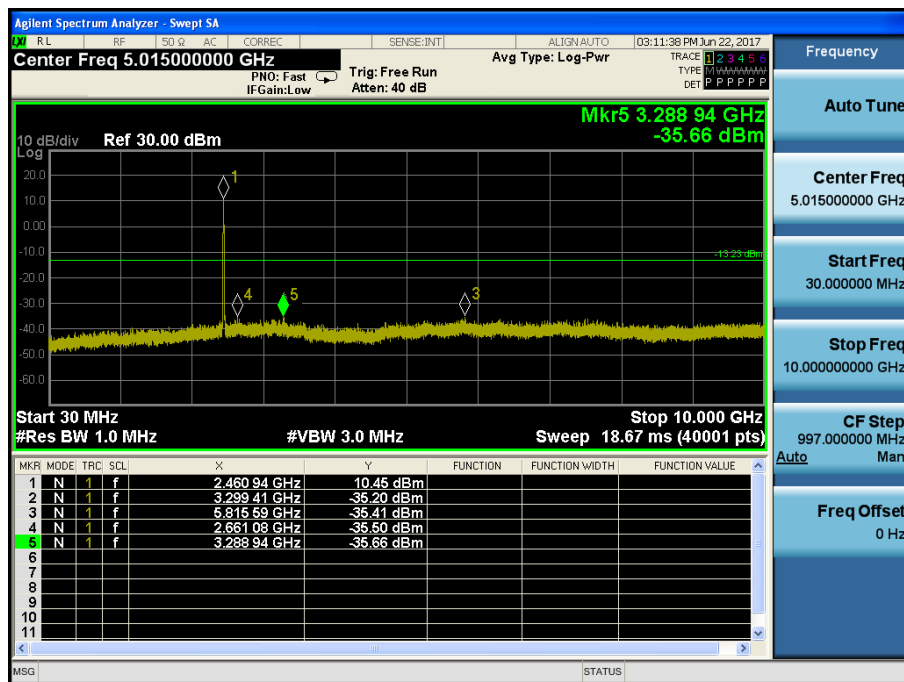
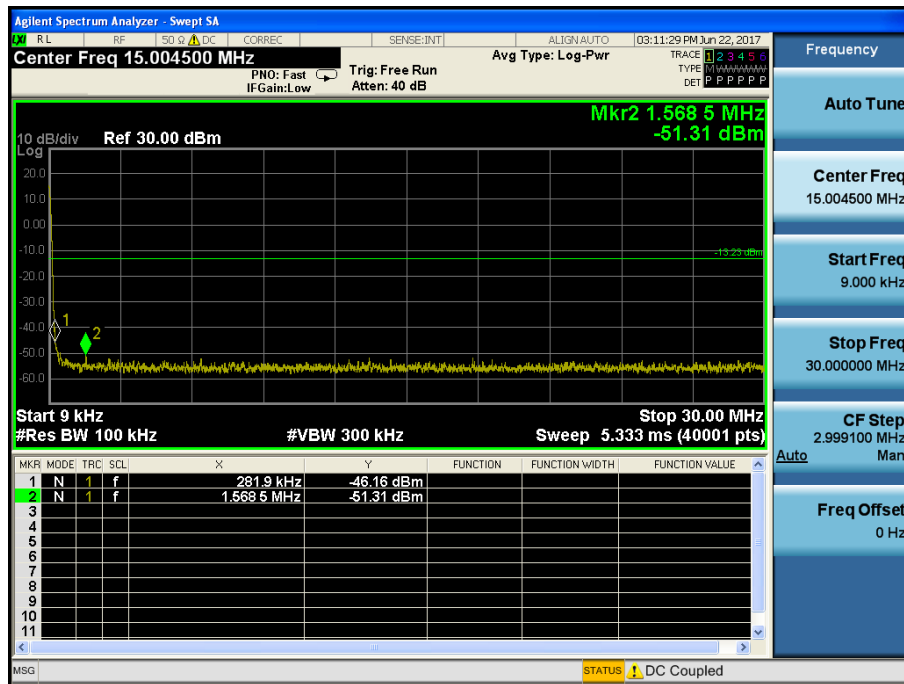
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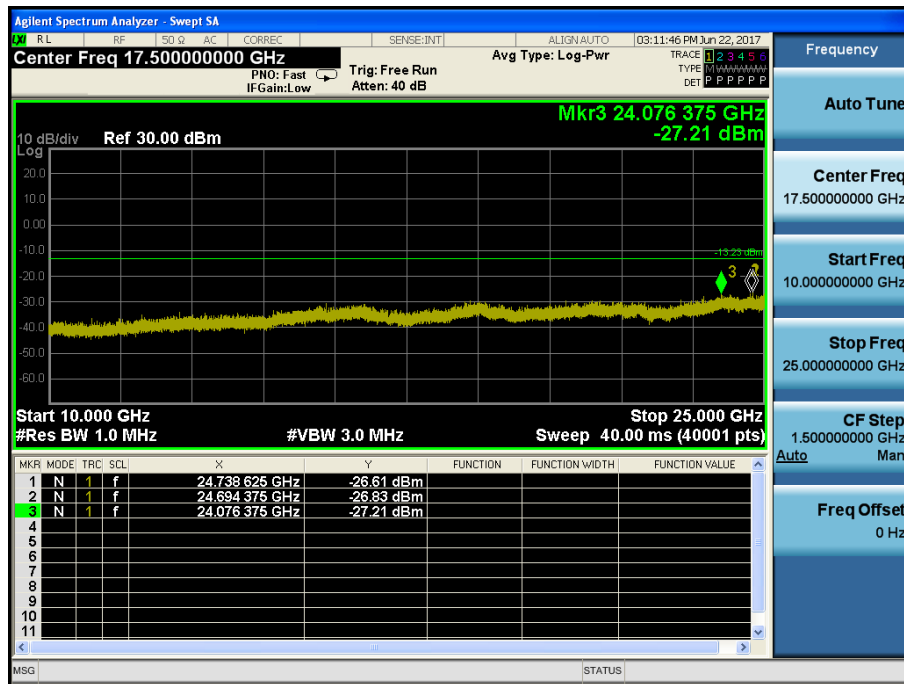
High Band-edge



Conducted Spurious Emissions

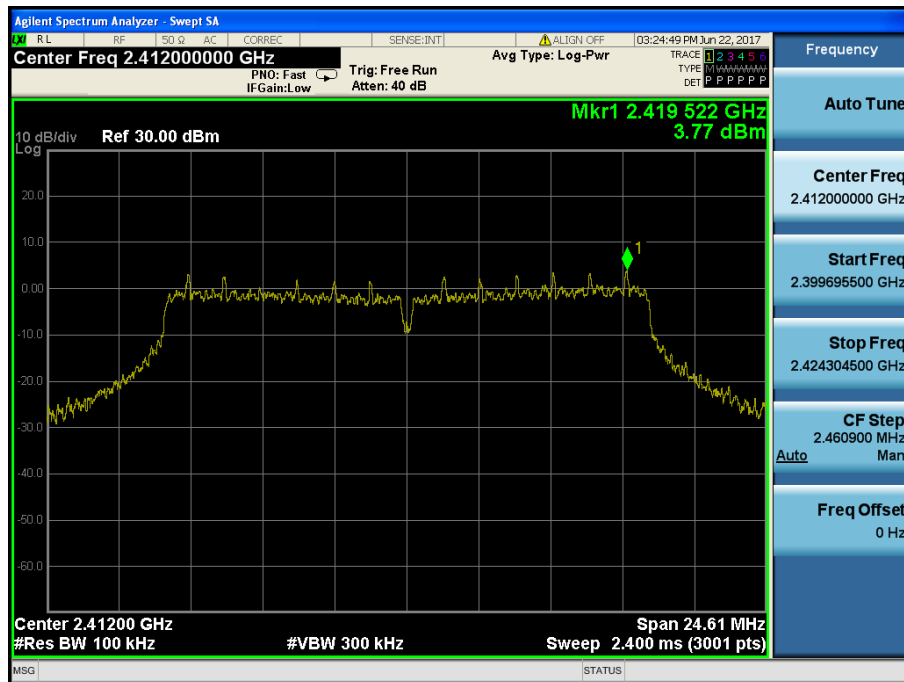


Conducted Spurious Emissions

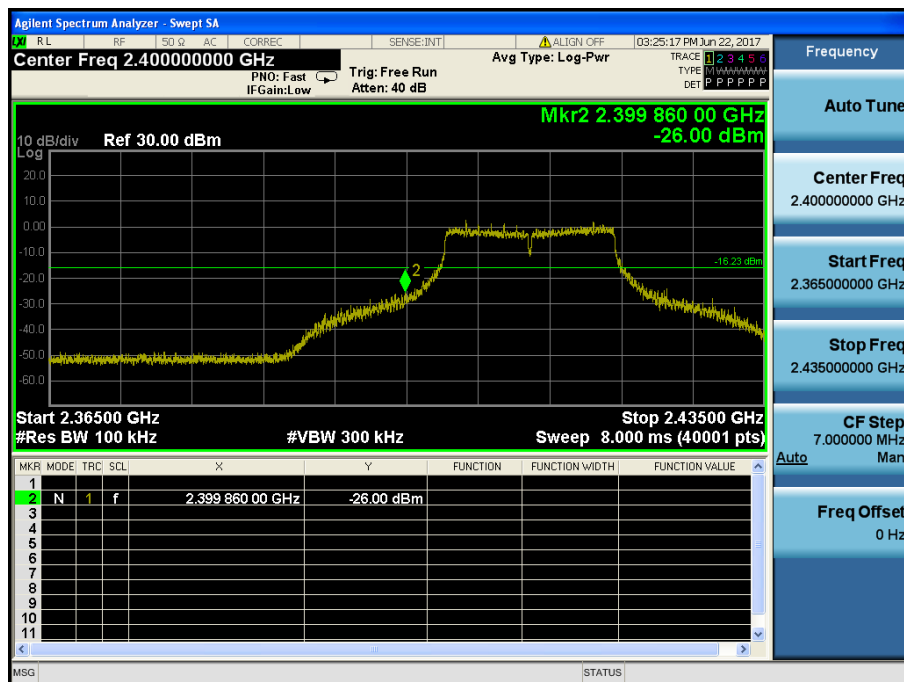


802.11g & 6 Mbps & 2412 MHz

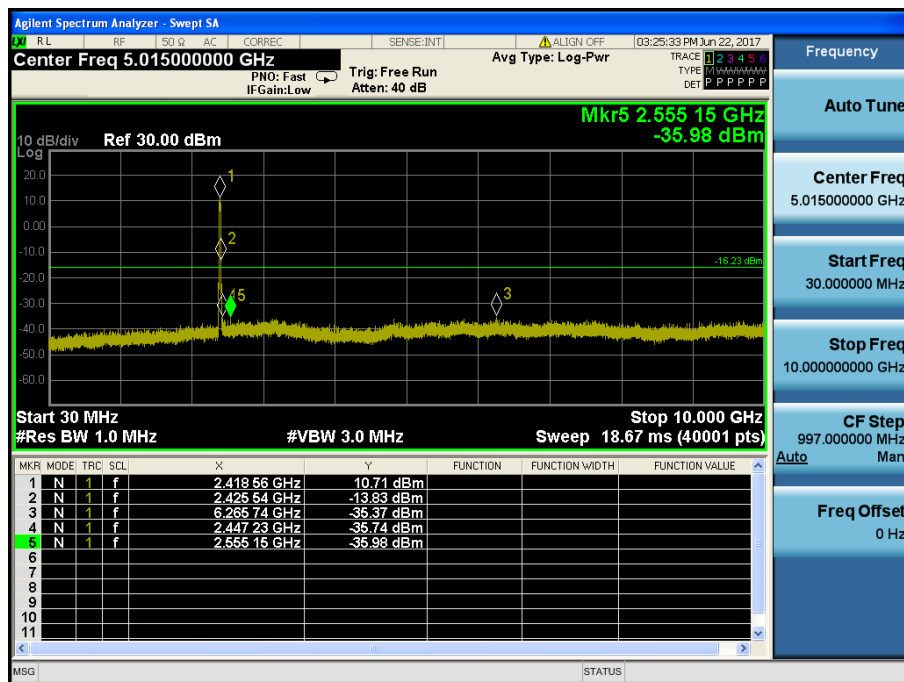
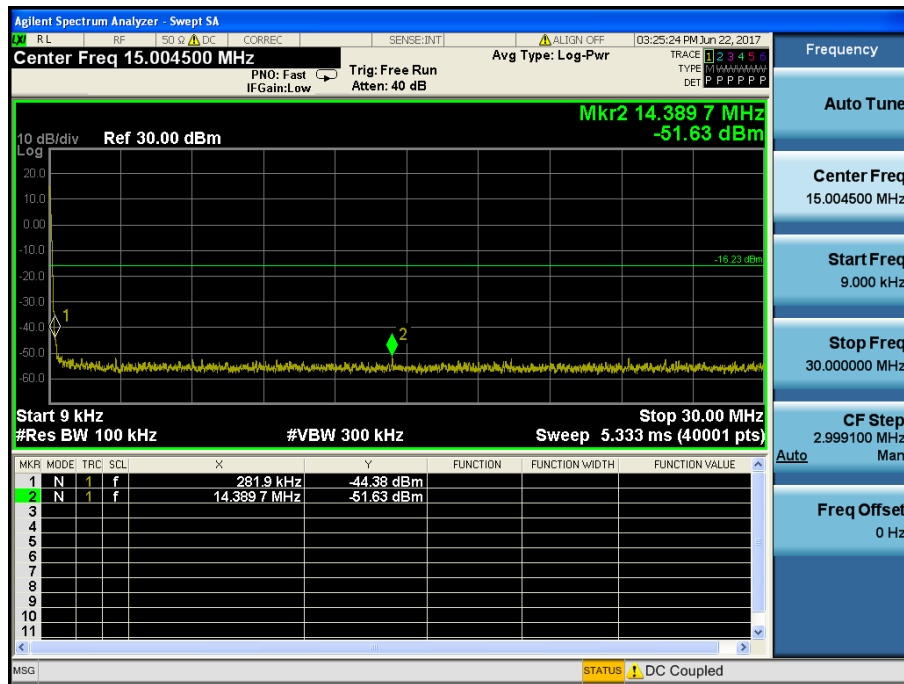
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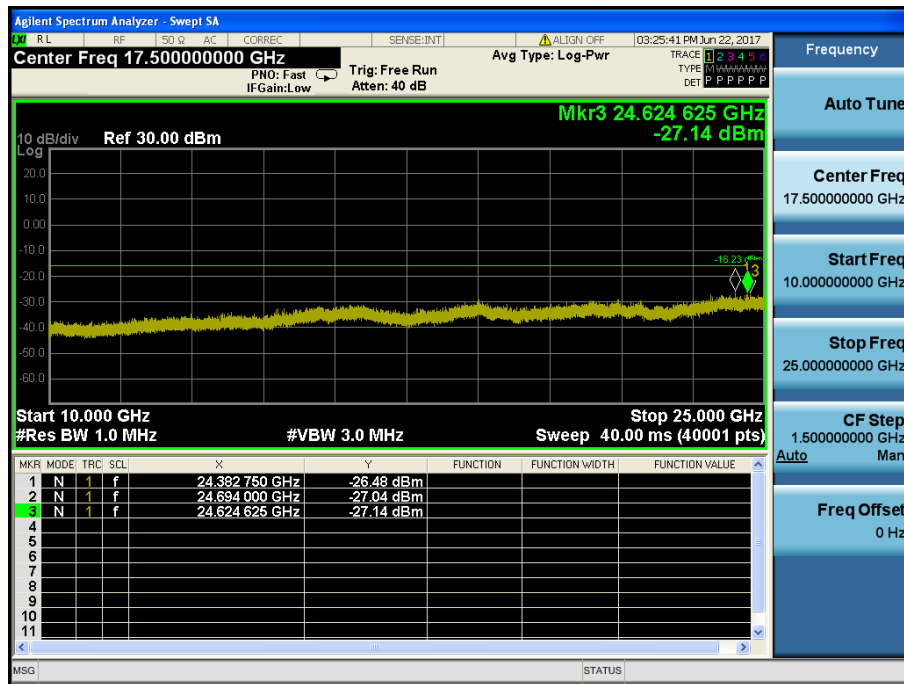
Low Band-edge



Conducted Spurious Emissions

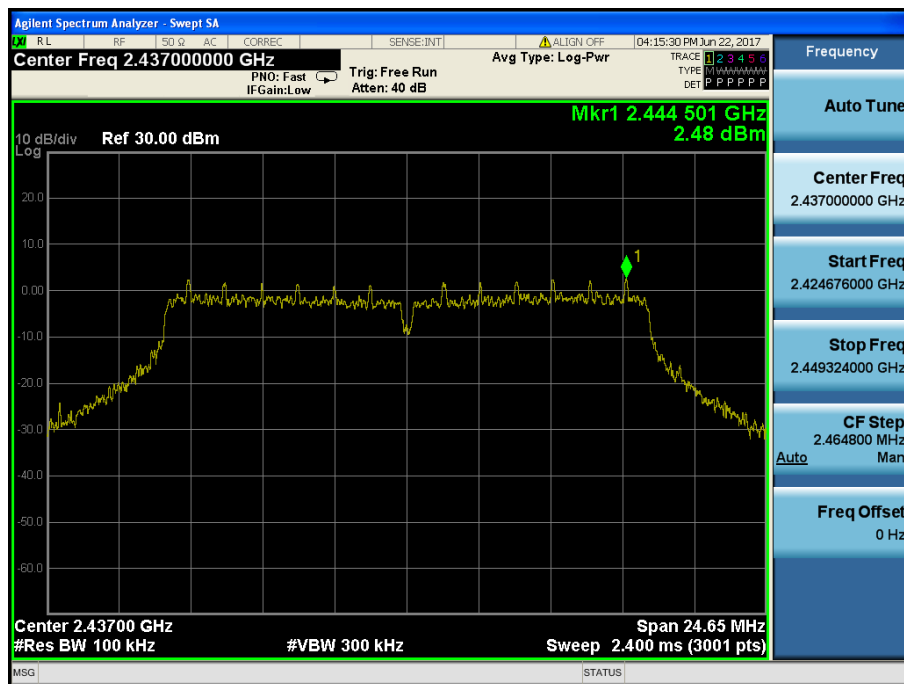


Conducted Spurious Emissions

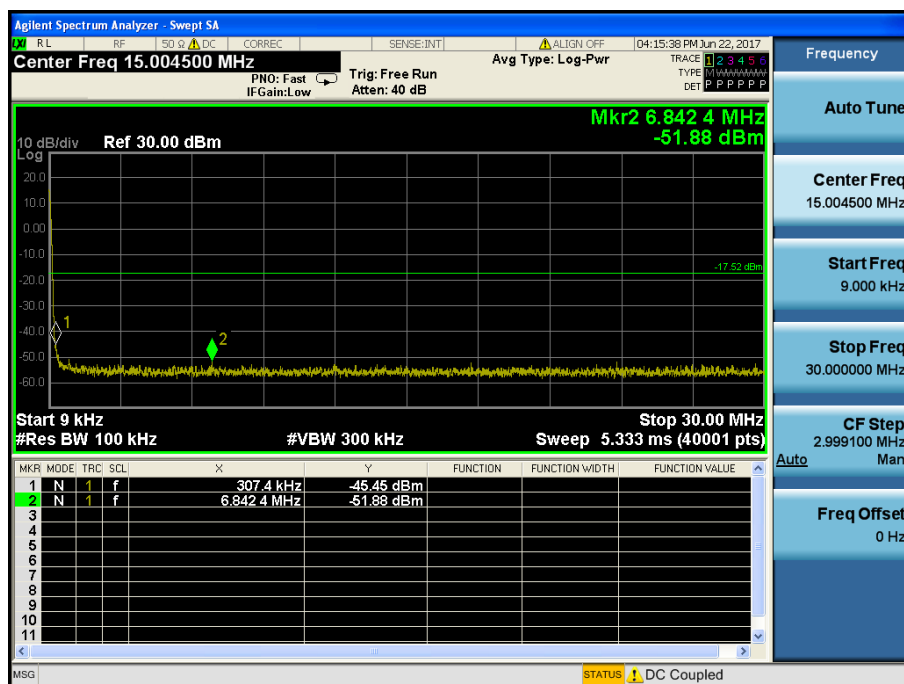


802.11g & 6 Mbps & 2437 MHz

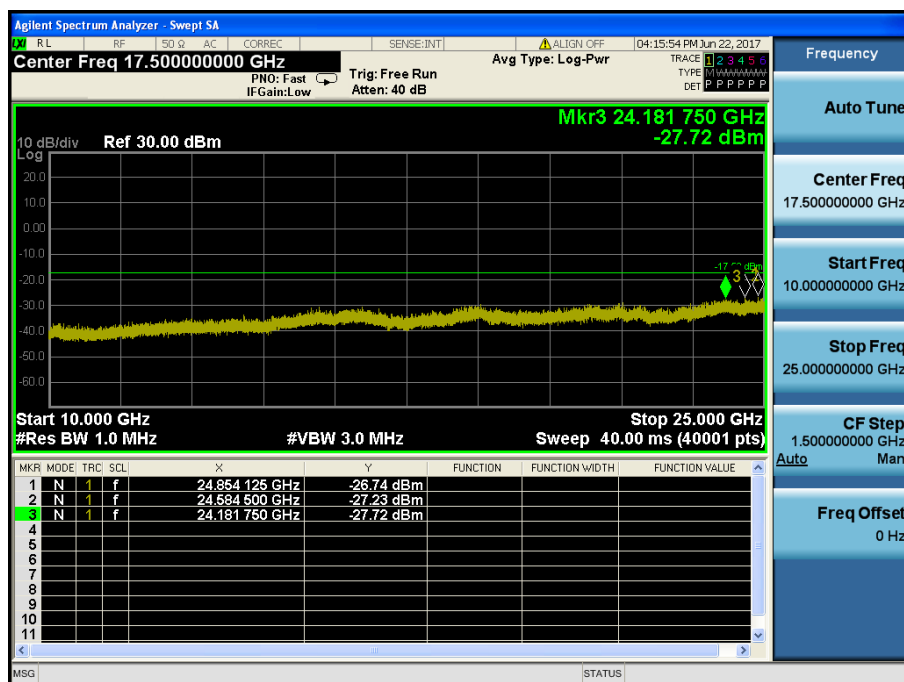
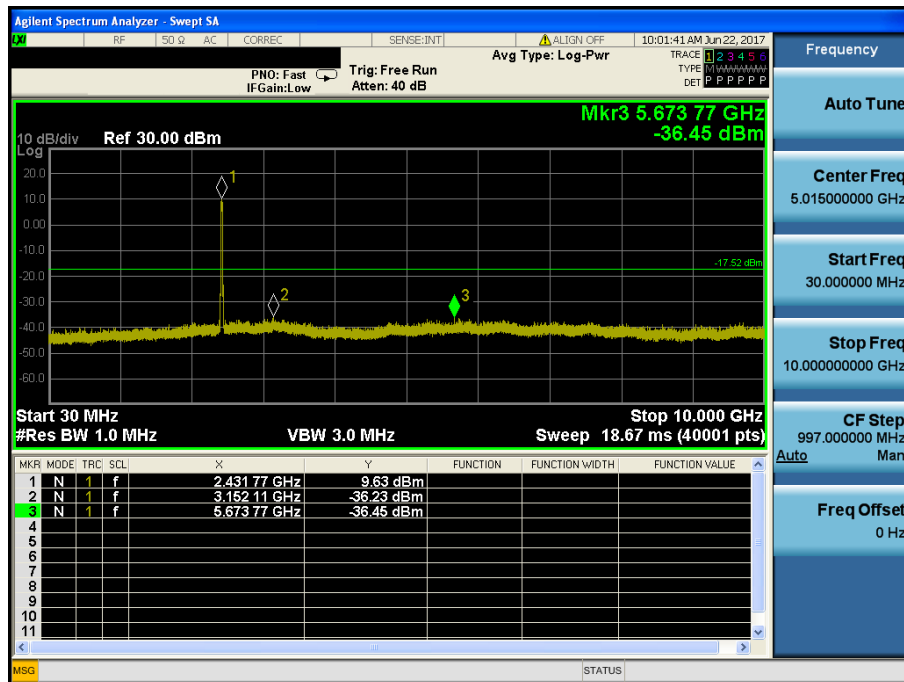
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Conducted Spurious Emissions

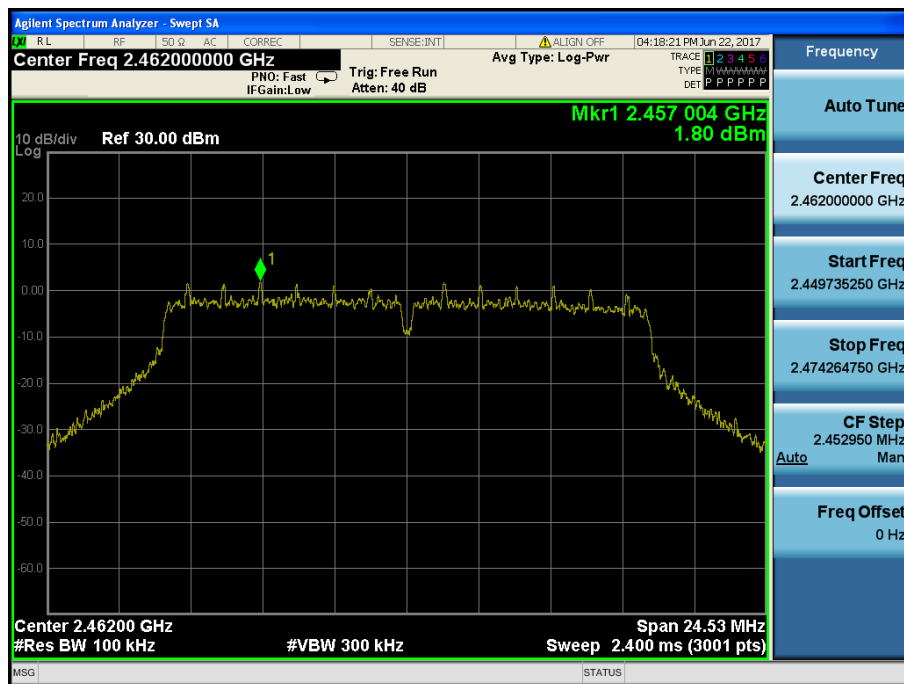


Conducted Spurious Emissions



802.11g & 6 Mbps & 2462 MHz

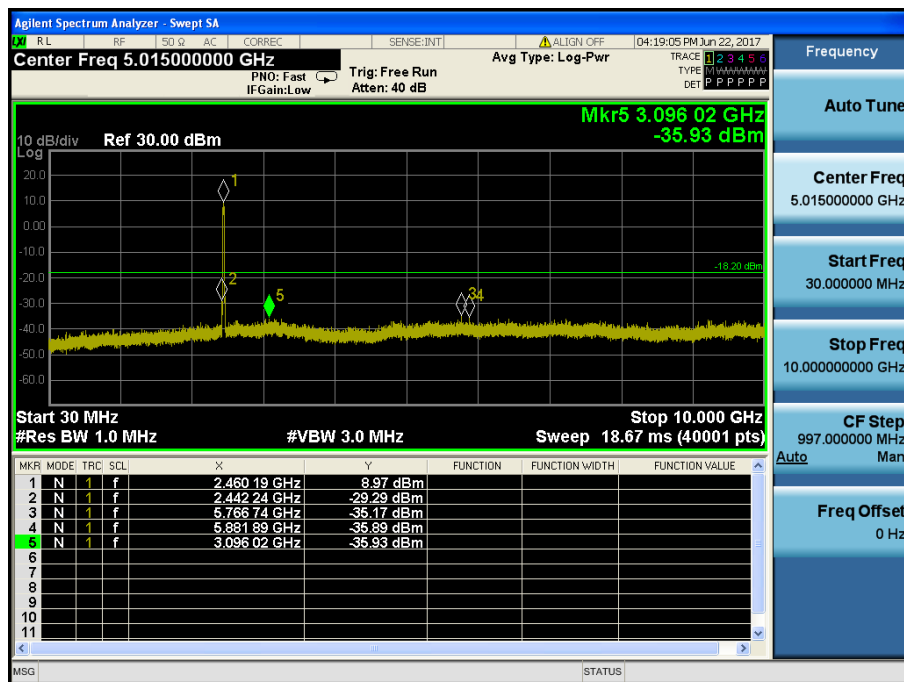
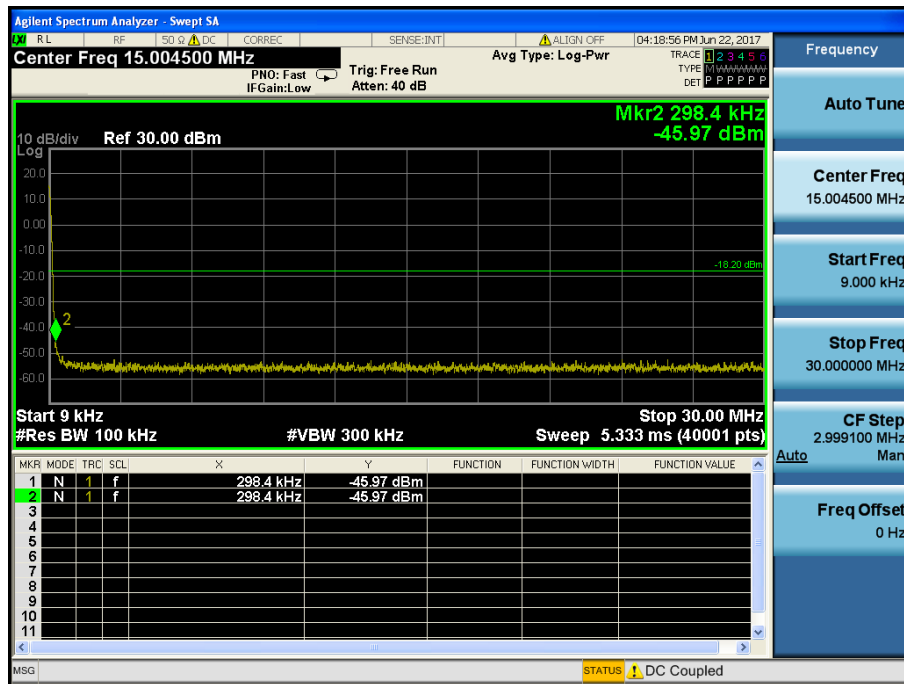
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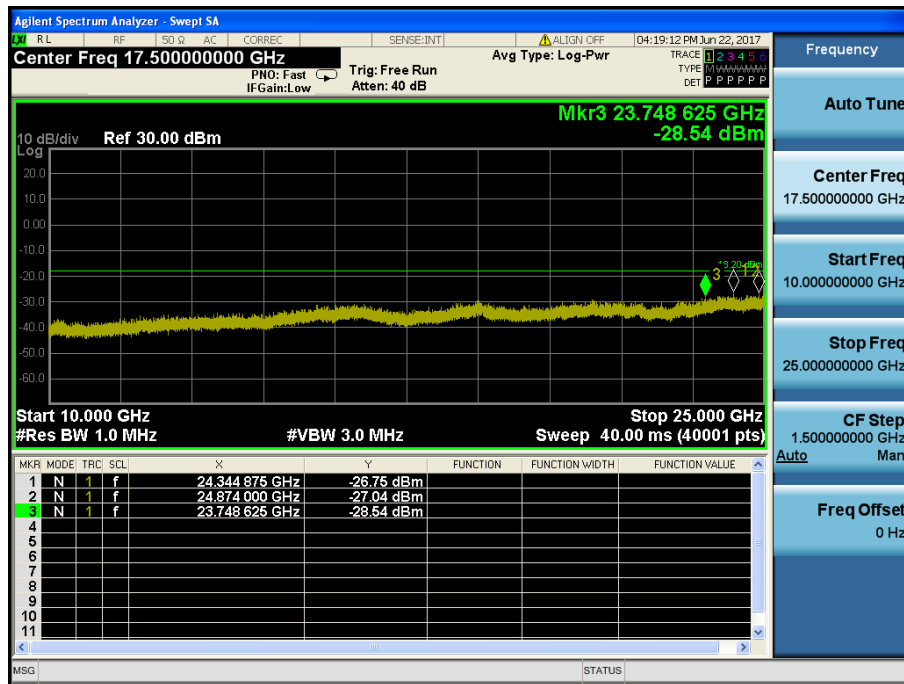
High Band-edge



Conducted Spurious Emissions

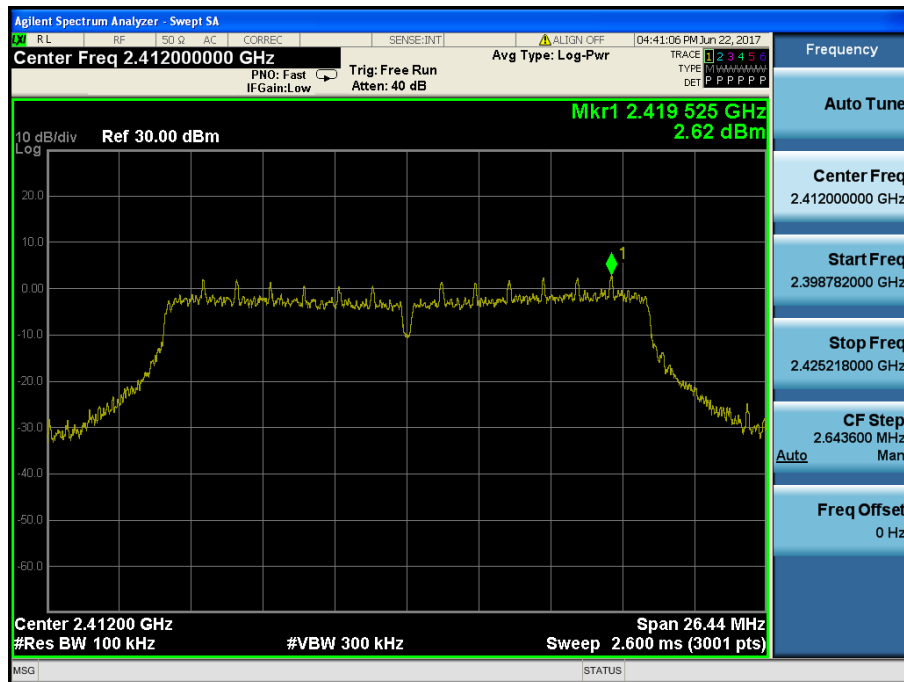


Conducted Spurious Emissions

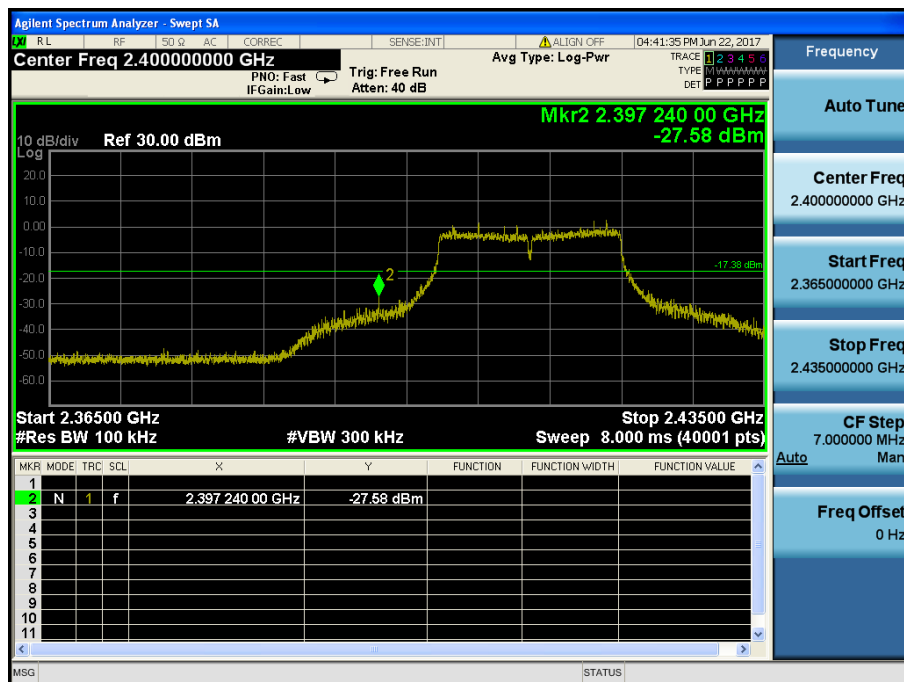


802.11n(HT20) & MCS 0 & 2412 MHz

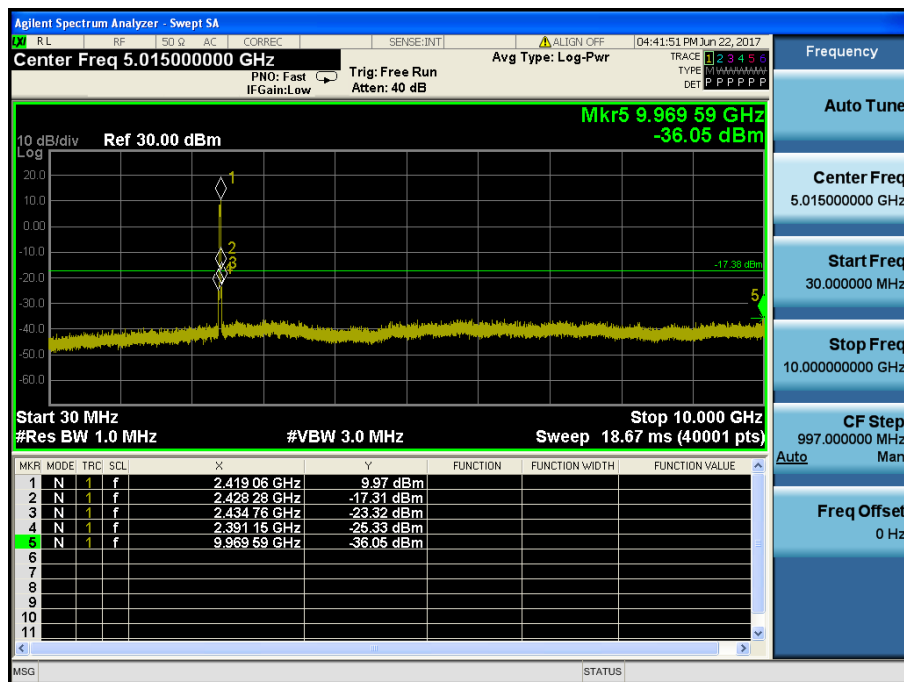
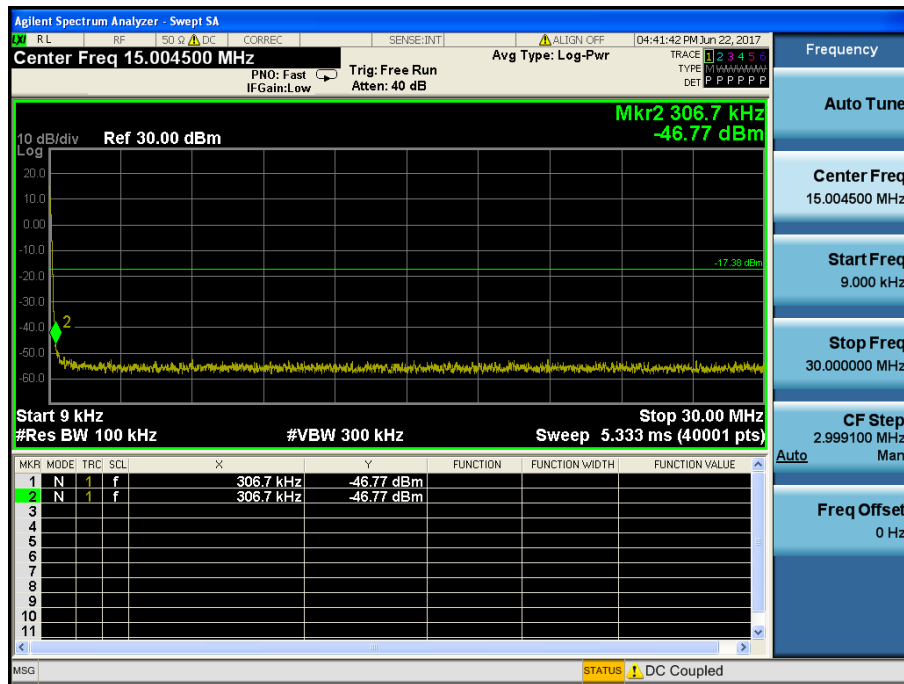
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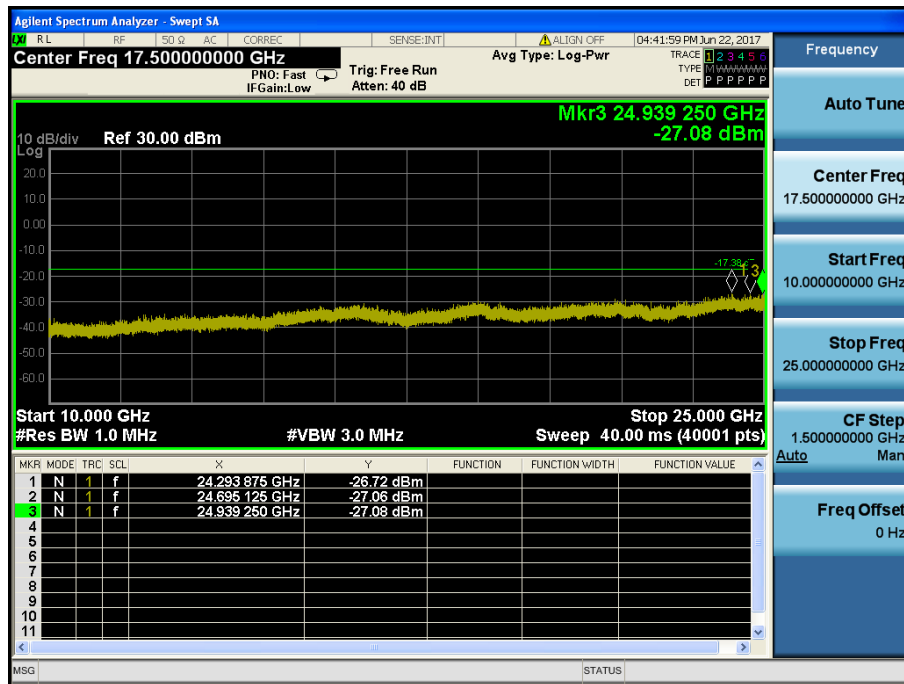
Low Band-edge



Conducted Spurious Emissions

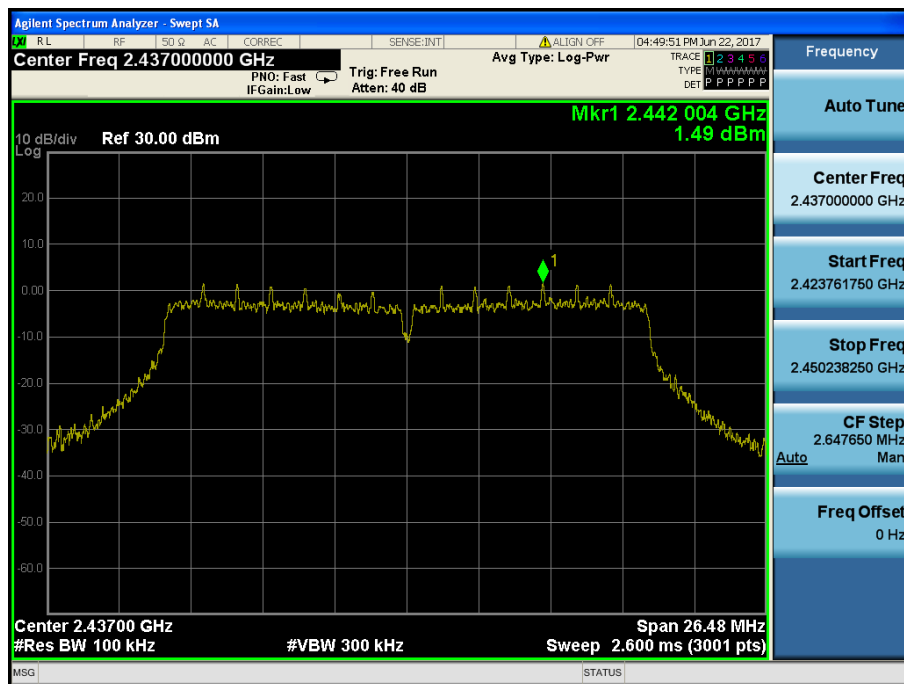


Conducted Spurious Emissions

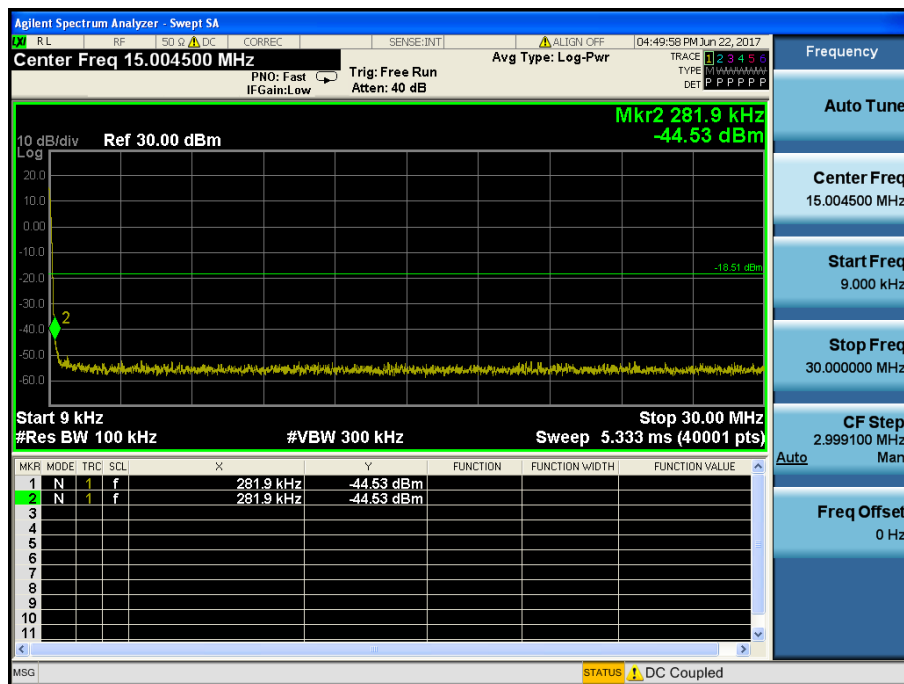


802.11n(HT20) & MCS 0 & 2437 MHz

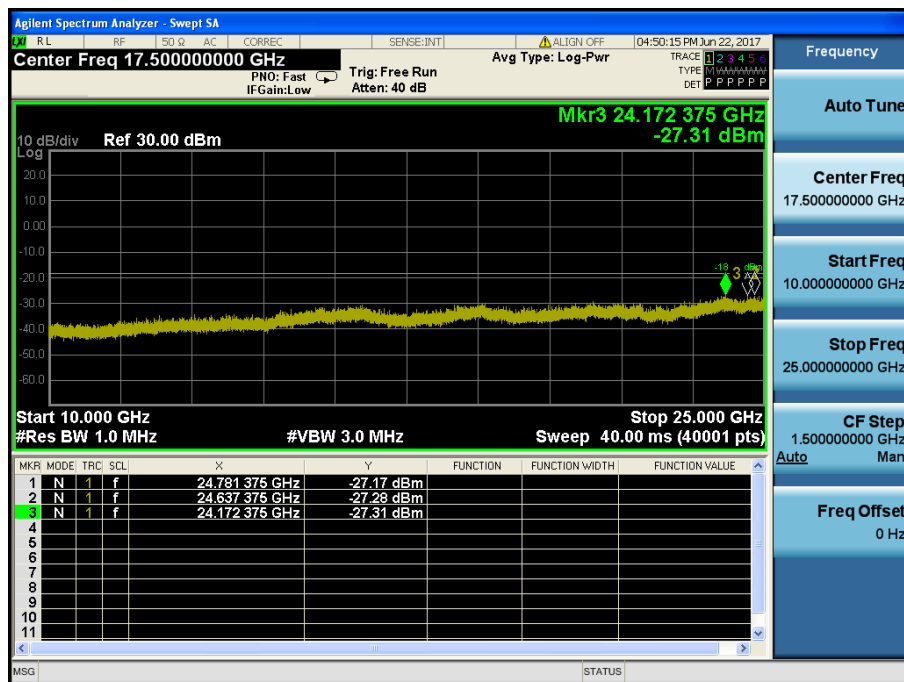
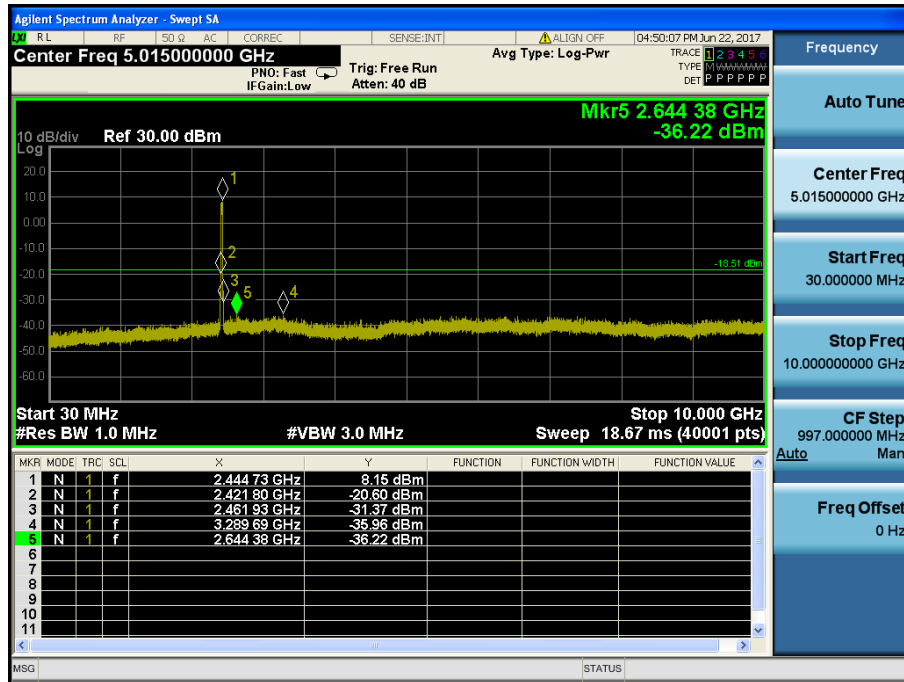
Reference



Conducted Spurious Emissions

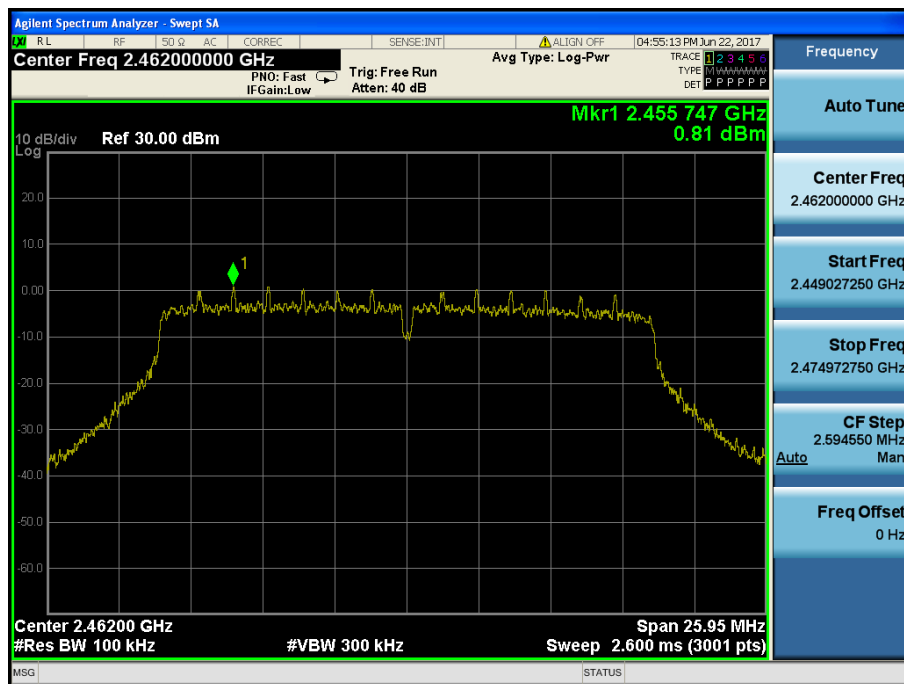


Conducted Spurious Emissions

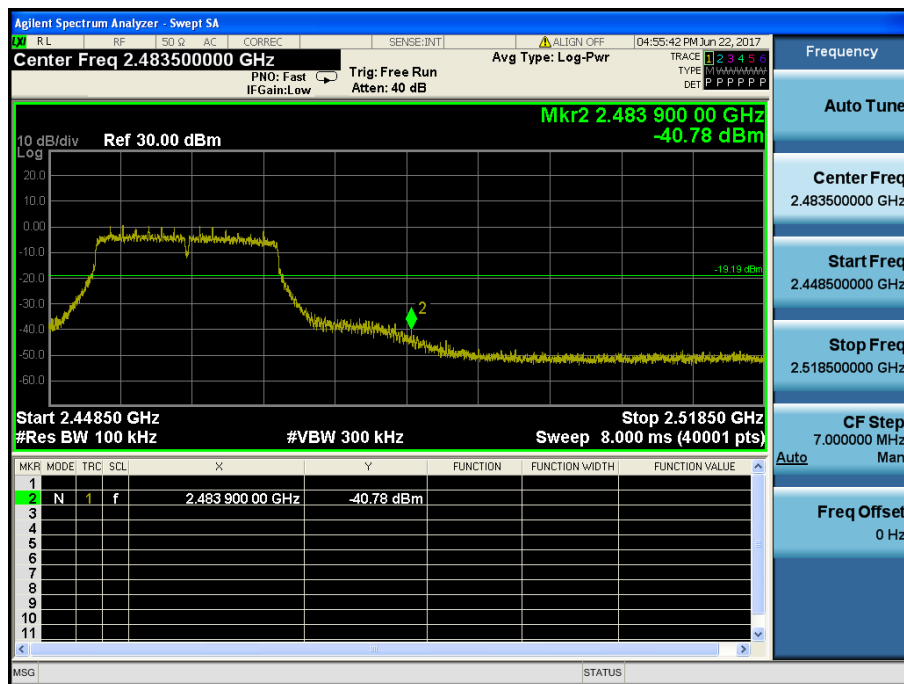


802.11n(HT20) & MCS 0 & 2462 MHz

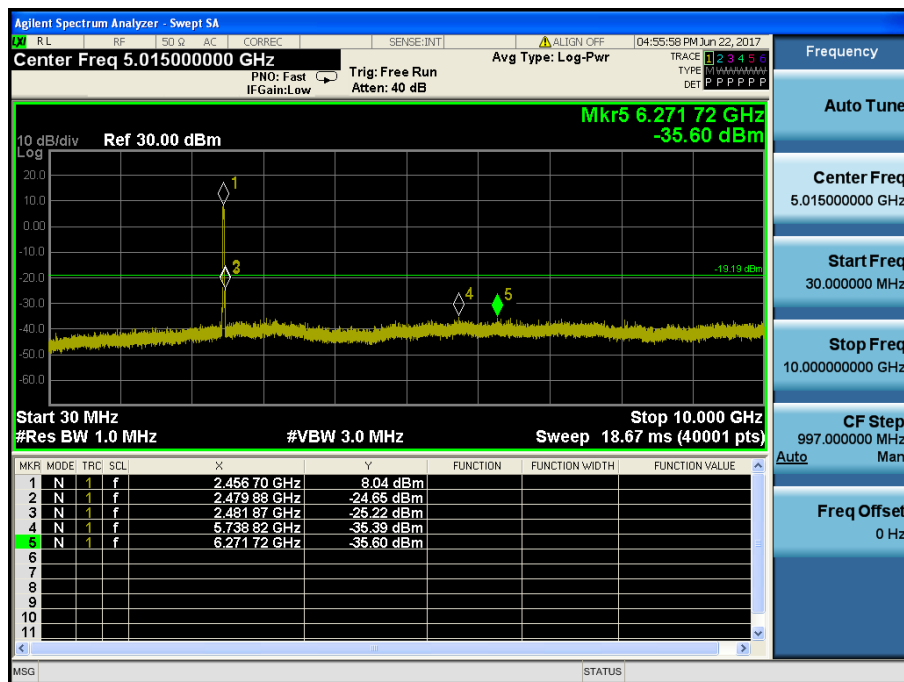
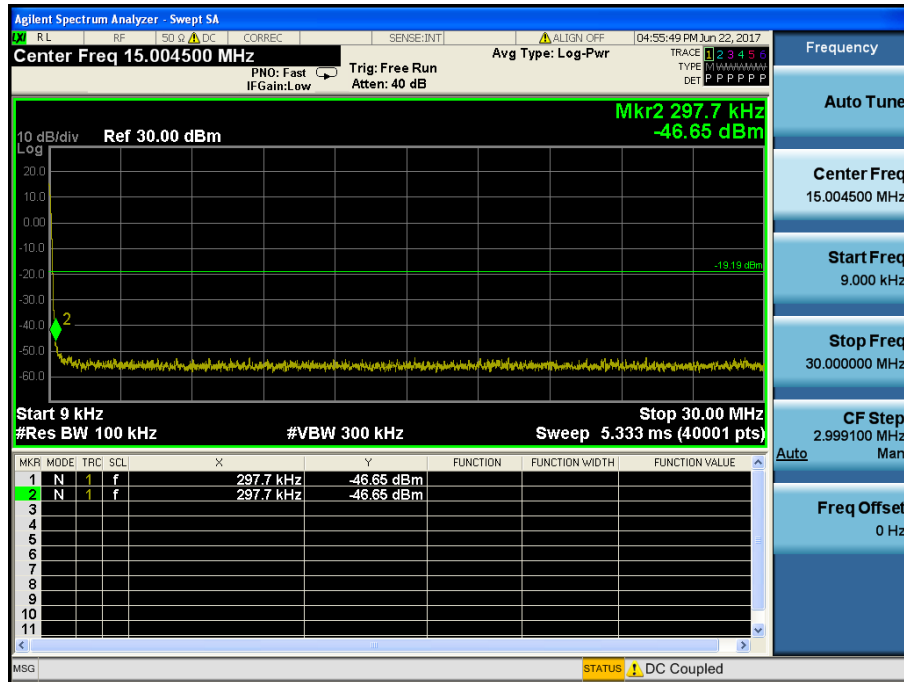
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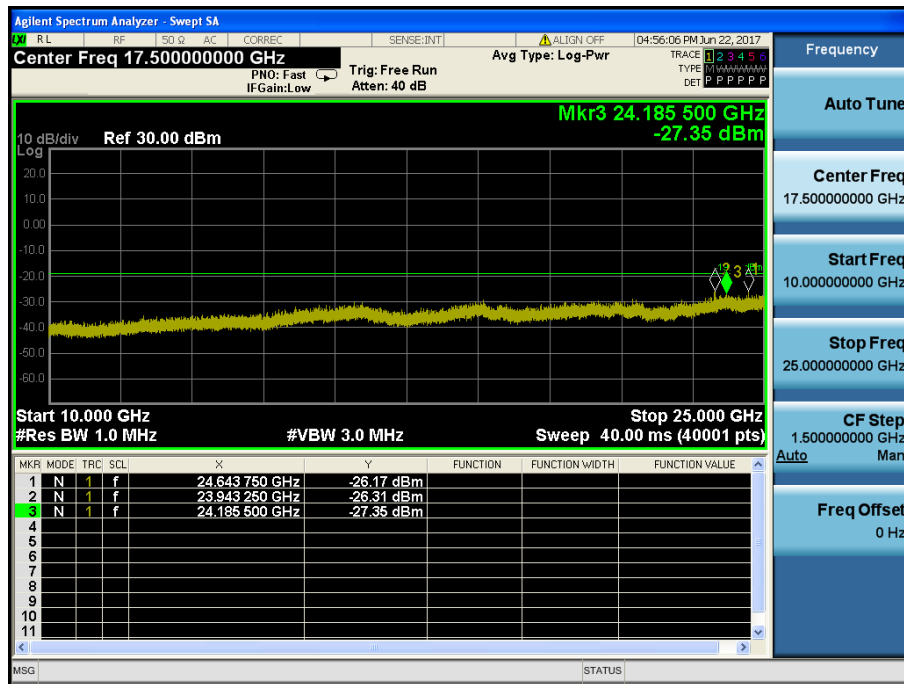
High Band-edge



Conducted Spurious Emissions



Conducted Spurious Emissions



6.5 Radiated Spurious Emissions

Test Requirements and limit,

§15.247(d), §15.205, §15.209

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) and (b), then the 15.209(a) limit in the table below has to be followed

• FCC Part 15.209(a) and (b)

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 – 0.490	2400/F (KHz)	300
0.490 – 1.705	24000/F (KHz)	30
1.705 – 30.0	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 - 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

• FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.52025	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	12.57675 ~	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	12.57725	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	13.36 ~ 13.41	162.0125 ~ 167.17	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.42 ~ 16.423	167.72 ~ 173.2	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	16.69475 ~	240 ~ 285	2655 ~ 2900		
8.291 ~ 8.294	16.69525	322 ~ 335.4	3260 ~ 3267		
8.362 ~ 8.366	16.80425 ~	399.90 ~ 410	3332 ~ 3339		
8.37625 ~ 8.38675	16.80475	608 ~ 614	3345.8 ~ 3358		
	25.5 ~ 25.67	960 ~ 1240	3600 ~ 4400		
	37.5 ~ 38.25				
	73 ~ 74.6				
	74.8 ~ 75.2				

• **FCC Part 15.205(b):** The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

■ TEST CONFIGURATION

Refer to the APPENDIX I.

■ TEST PROCEDURE

1. The EUT is placed on a non-conductive table, emission measurements at below 1 GHz, the table height is 80 cm and above 1 GHz, the table height is 1.5 m.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

■ Measurement Instrument Setting for Radiated Emission Measurements.

The radiated emission was tested according to the section 6.3, 6.4, 6.5 and 6.6 of the ANSI C63.10-2013 with following settings.

Peak Measurement:

RBW = As specified in below table , VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9 - 150 kHz	200 - 300 Hz
0.15 - 30 MHz	9 - 10 kHz
30 - 1000 MHz	100 - 120 kHz
> 1000 MHz	1 MHz

Average Measurement:

1. RBW = 1 MHz (unless otherwise specified).
2. VBW $\geq 3 \times$ RBW.
3. Detector = RMS (Number of points $\geq 2 \times$ Span / RBW)
4. Averaging type = power. (i.e., RMS)
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.
7. A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

Duty Cycle Corrections (Refer to appendix II for duty cycle measurement procedure and plots)

Band	Duty Cycle (%)	T _{on} (ms)	T _{on} + T _{off} (ms)	DCF = $10\log(1 / \text{Duty})$ (dB)
802.11b	97.64	8.190	8.388	0.10
802.11g	87.23	1.359	1.558	0.59
802.11n(HT20)	86.46	1.271	1.470	0.63
-	-	-	-	-

9 kHz~ 25 GHz Data (802.11b & 1 Mbps)

▪ 2412 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2410.69	H	Y	PK	100.10	0.76	N/A	N/A	100.86	-	-
2388.93	H	Y	PK	49.79	0.70	N/A	N/A	50.49	74.00	23.51
2389.77	H	Y	AV	38.73	0.70	0.10	N/A	39.53	54.00	14.47
4823.84	H	X	PK	49.81	4.86	N/A	N/A	54.67	74.00	19.33
4823.92	H	X	AV	44.85	4.86	0.10	N/A	49.81	54.00	4.19
**9648.00	H	Z	PK	46.81	9.34	N/A	N/A	56.15	80.86	24.71

▪ 2437 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2435.95	H	Y	PK	100.65	0.82	N/A	N/A	101.47	-	-
4874.22	H	X	PK	46.83	5.07	N/A	N/A	51.90	74.00	22.10
4874.02	H	X	AV	39.49	5.07	0.10	N/A	44.66	54.00	9.34
**9747.89	H	Z	PK	48.22	9.32	N/A	N/A	57.54	81.47	23.93

▪ 2462 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2460.92	H	Y	PK	100.74	0.88	N/A	N/A	101.62	-	-
2483.72	H	Y	PK	49.46	1.07	N/A	N/A	50.53	74.00	23.47
2483.55	H	Y	AV	40.40	1.07	0.10	N/A	41.57	54.00	12.43
4924.20	H	X	PK	46.43	5.23	N/A	N/A	51.66	74.00	22.34
4923.92	H	X	AV	38.08	5.23	0.10	N/A	43.41	54.00	10.59
**9847.92	H	Z	PK	47.52	9.48	N/A	N/A	57.00	81.62	24.62

Note.

- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
So Distance Correction Factor : - 9.54 dB = $20 \cdot \log(1 \text{ m} / 3 \text{ m})$
- No other spurious and harmonic emissions were found greater than listed emissions on above table.
- The band edge test has performed between 2310-2390 MHz and 2483.5-2500 MHz.
The worst results were reported in the table.
- Sample Calculation.
Margin = Limit – Result / Result = Reading + T.F+ DCF + Distance Factor / T.F = AF + CL – AG
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
DCF = Duty Cycle Correction Factor.
- The mark (*) is about the fundamental frequency.
- The mark (**) is about the non-restricted band. Limit = The level of fundamental frequency – 20 dB.

9 kHz~ 25 GHz Data (802.11g & 6 Mbps)

▪ 2412 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2404.88	H	Y	PK	101.80	0.76	N/A	N/A	102.56	-	-
2389.89	H	Y	PK	66.13	0.70	N/A	N/A	66.83	74.00	7.17
2389.96	H	Y	AV	46.59	0.70	0.59	N/A	47.88	54.00	6.12
4824.52	H	X	PK	46.05	4.86	N/A	N/A	50.91	74.00	23.09
4824.70	H	X	AV	36.38	4.86	0.59	N/A	41.83	54.00	12.17
**9647.56	H	Z	PK	47.64	9.34	N/A	N/A	56.98	82.56	25.58

▪ 2437 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2431.92	H	Y	PK	103.65	0.82	N/A	N/A	104.47	-	-
4872.37	H	X	PK	44.49	5.07	N/A	N/A	49.56	74.00	24.44
4871.63	H	X	AV	34.59	5.07	0.59	N/A	40.25	54.00	13.75
**9747.93	H	Z	PK	47.75	9.32	N/A	N/A	57.07	84.47	27.40

▪ 2462 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2457.76	H	Y	PK	99.64	0.88	N/A	N/A	100.52	-	-
2483.70	H	Y	PK	66.15	1.07	N/A	N/A	67.22	74.00	6.78
2483.55	H	Y	AV	49.34	1.07	0.59	N/A	51.00	54.00	3.00
4919.67	H	X	PK	43.88	5.23	N/A	N/A	49.11	74.00	24.89
4919.10	H	X	AV	34.00	5.23	0.59	N/A	39.82	54.00	14.18
**9848.10	H	Z	PK	47.91	9.48	N/A	N/A	57.39	80.52	23.13

Note.

- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
So Distance Correction Factor : - 9.54 dB = $20 \cdot \log(1 \text{ m} / 3 \text{ m})$
- No other spurious and harmonic emissions were found greater than listed emissions on above table.
- The band edge test has performed between 2310-2390 MHz and 2483.5-2500 MHz.
The worst results were reported in the table.
- Sample Calculation.
Margin = Limit – Result / Result = Reading + T.F+ DCF + Distance Factor / T.F = AF + CL – AG
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
DCF = Duty Cycle Correction Factor.
- The mark (*) is about the fundamental frequency.
- The mark (**) is about the non-restricted band. Limit = The level of fundamental frequency – 20 dB.

9 kHz~ 25 GHz Data (802.11n HT20 & MCS 0)

▪ 2412 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2409.43	H	Y	PK	101.06	0.76	N/A	N/A	101.82	-	-
2389.50	H	Y	PK	59.27	0.70	N/A	N/A	59.97	74.00	14.03
2389.92	H	Y	AV	46.26	0.70	0.63	N/A	47.59	54.00	6.41
4823.68	H	X	PK	46.94	4.86	N/A	N/A	51.80	74.00	22.20
4824.53	H	X	AV	36.05	4.86	0.63	N/A	41.54	54.00	12.46
**9647.99	H	Z	PK	47.12	9.34	N/A	N/A	56.46	81.82	25.36

▪ 2437 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2440.17	H	Y	PK	101.30	0.82	N/A	N/A	102.12	-	-
4862.30	H	X	PK	45.11	5.07	N/A	N/A	50.18	74.00	23.82
4864.55	H	X	AV	34.09	5.07	0.63	N/A	39.79	54.00	14.21
**9748.37	H	Z	PK	46.76	9.32	N/A	N/A	56.08	82.12	26.04

▪ 2462 MHz

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Distance Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2457.03	H	Y	PK	99.43	0.88	N/A	N/A	100.31	-	-
2483.53	H	Y	PK	66.82	1.07	N/A	N/A	67.89	74.00	6.11
2483.67	H	Y	AV	49.08	1.07	0.63	N/A	50.78	54.00	3.22
4915.48	H	X	PK	44.54	5.23	N/A	N/A	49.77	74.00	24.23
4913.10	H	X	AV	34.05	5.23	0.63	N/A	39.91	54.00	14.09
**9847.84	H	Z	PK	47.87	9.48	N/A	N/A	57.35	80.31	22.96

Note.

- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
So Distance Correction Factor : - 9.54 dB = 20*log(1 m / 3 m)
- No other spurious and harmonic emissions were found greater than listed emissions on above table.
- The band edge test has performed between 2310-2390 MHz and 2483.5-2500 MHz.
The worst results were reported in the table.
- Sample Calculation.
Margin = Limit – Result / Result = Reading + T.F+ DCF + Distance Factor / T.F = AF + CL – AG
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
DCF = Duty Cycle Correction Factor.
- The mark (*) is about the fundamental frequency.
- The mark (**) is about the non-restricted band. Limit = The level of fundamental frequency – 20 dB.

6.6 Power-line conducted emissions

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

■ TEST CONFIGURATION

See test photographs for the actual connections between EUT and support equipment.

■ TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to the test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

■ Test Results: **Comply**(Refer to next page.)

The worst data was reported.

RESULT PLOTS

AC Line Conducted Emissions (Graph)

Test Mode: 802.11g & 6Mbps & 2462 MHz

Results of Conducted Emission

DT&C

Date 2017-06-23

Model
Function
Mode
Test condition

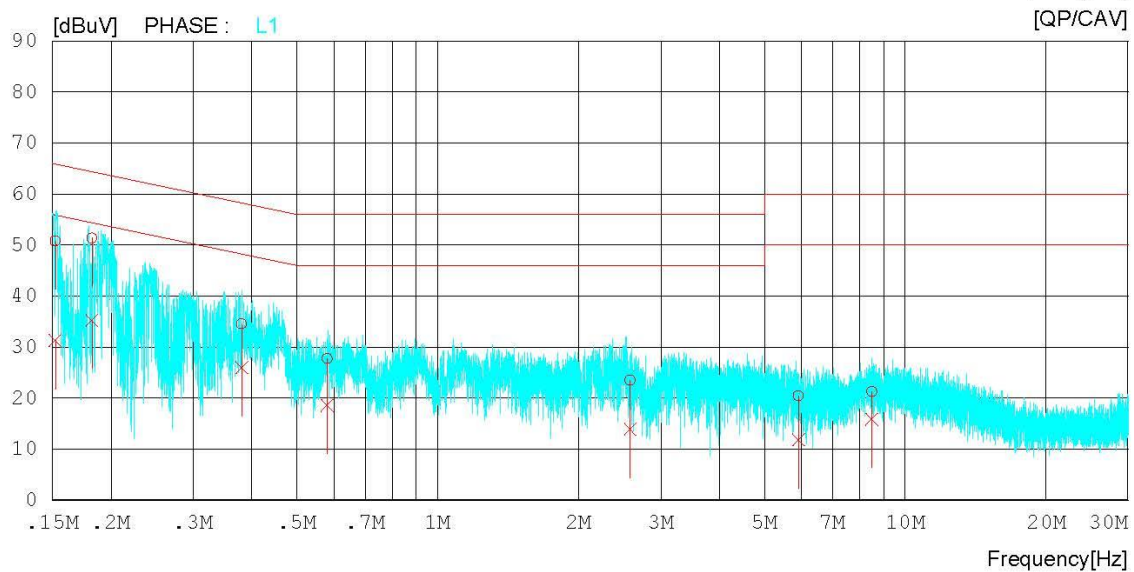
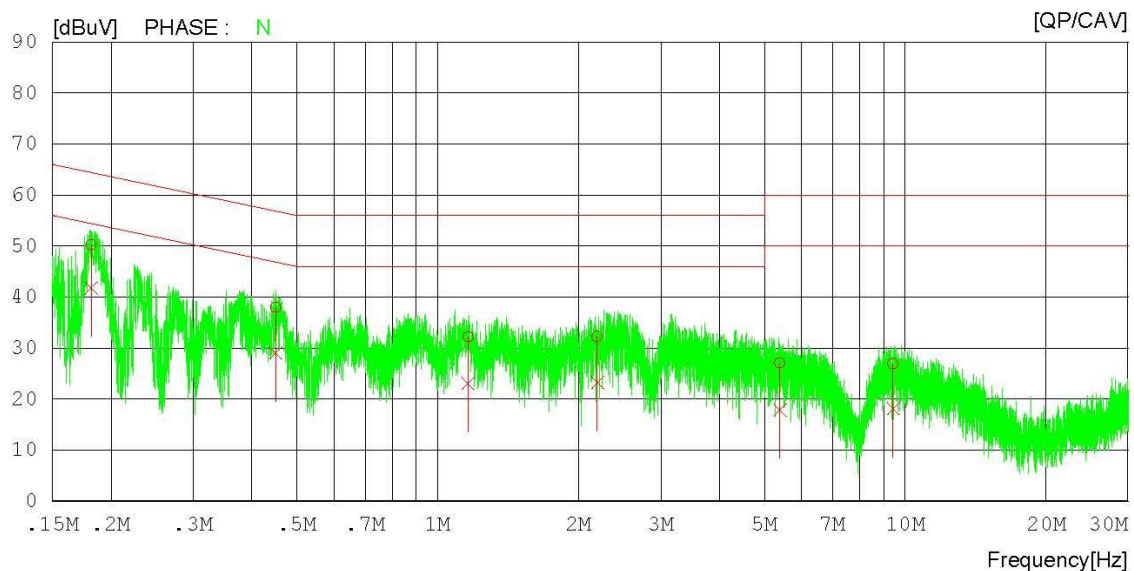
PM66
2.4G_WLAN_0
802.11b

Temp/Humi.
Power Supply
Operator

23 'C 47 %
AC 120 V 60 Hz
J.W.KIM

Memo

LIMIT : FCC P15.207 QP
FCC P15.207 AV



AC Line Conducted Emissions (List)

Test Mode: 802.11g & 6Mbps & 2462 MHz

Results of Conducted Emission

DT&C

Date 2017-06-23

Model PM66
Function 2.4G WLAN _0
Mode 802.11b
Test condition

Temp/Humi. 23 'C 47 %
Power Supply AC 120 V 60 Hz
Operator J.W.KIM

Memo

LIMIT : FCC P15.207 QP
FCC P15.207 AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.18175	50.07	41.57	0.21	50.28	41.78	64.41	54.41	14.13	12.63	N
2	0.45076	37.73	28.85	0.22	37.95	29.07	56.86	46.86	18.91	17.79	N
3	1.16260	31.90	22.90	0.26	32.16	23.16	56.00	46.00	23.84	22.84	N
4	2.19480	32.02	22.90	0.31	32.33	23.21	56.00	46.00	23.67	22.79	N
5	5.39600	26.62	17.47	0.46	27.08	17.93	60.00	50.00	32.92	32.07	N
6	9.41420	26.24	17.47	0.67	26.91	18.14	60.00	50.00	33.09	31.86	N
7	0.15201	50.60	31.08	0.18	50.78	31.26	65.89	55.89	15.11	24.63	L1
8	0.18215	51.16	35.00	0.18	51.34	35.18	64.39	54.39	13.05	19.21	L1
9	0.38118	34.32	25.76	0.20	34.52	25.96	58.25	48.25	23.73	22.29	L1
10	0.58043	27.51	18.33	0.21	27.72	18.54	56.00	46.00	28.28	27.46	L1
11	2.57940	23.15	13.56	0.32	23.47	13.88	56.00	46.00	32.53	32.12	L1
12	5.91180	19.88	11.33	0.51	20.39	11.84	60.00	50.00	39.61	38.16	L1
13	8.47840	20.51	15.08	0.69	21.20	15.77	60.00	50.00	38.80	34.23	L1

6.7 Occupied Bandwidth

Test Requirements, RSS-Gen [6.6]

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

■ TEST CONFIGURATION

Refer to the APPENDIX I.

■ TEST PROCEDURE

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

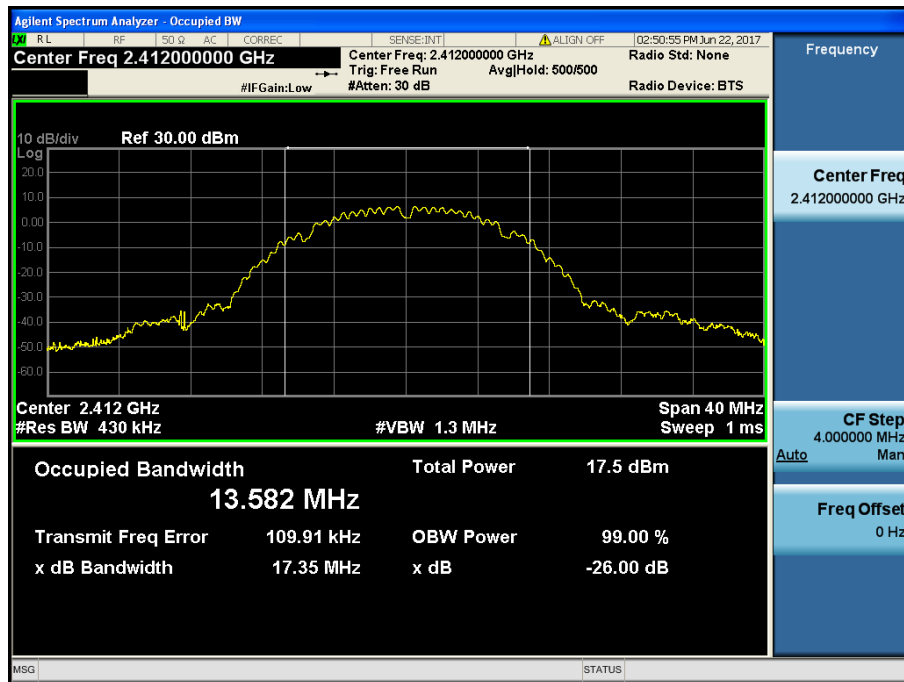
■ TEST RESULTS: **Comply**

Test Mode	Data Rate	Frequency [MHz]	Test Results [MHz]
802.11b	1 Mbps	2412	13.582
		2437	13.397
		2462	13.184
802.11g	6 Mbps	2412	17.844
		2437	17.661
		2462	17.247
802.11n (HT20)	MCS 0	2412	18.571
		2437	18.513
		2462	18.201

RESULT PLOTS

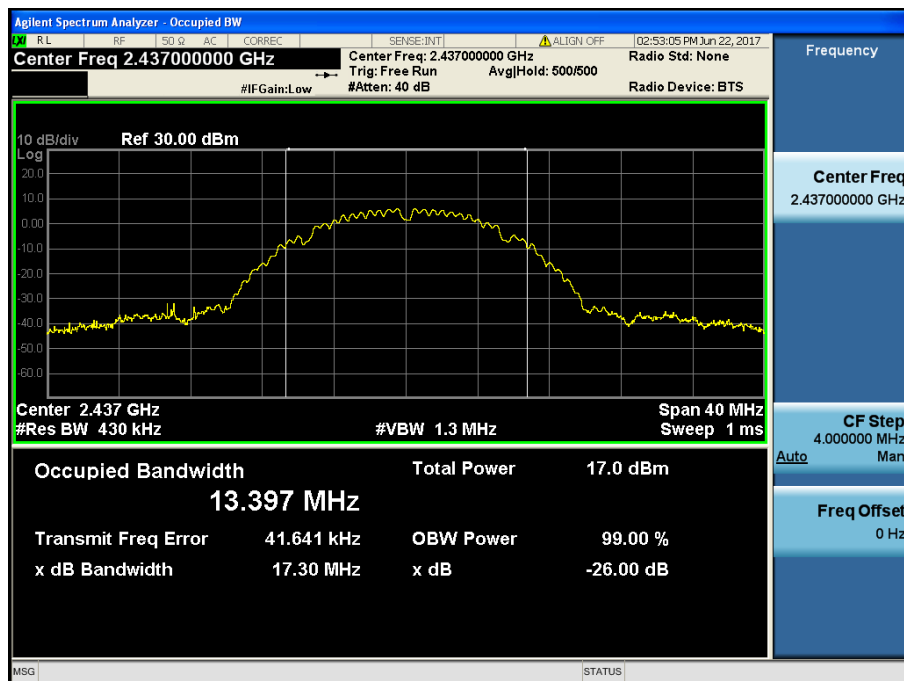
Occupied Bandwidth

Test Mode: 802.11b & 1 Mbps & 2412 MHz



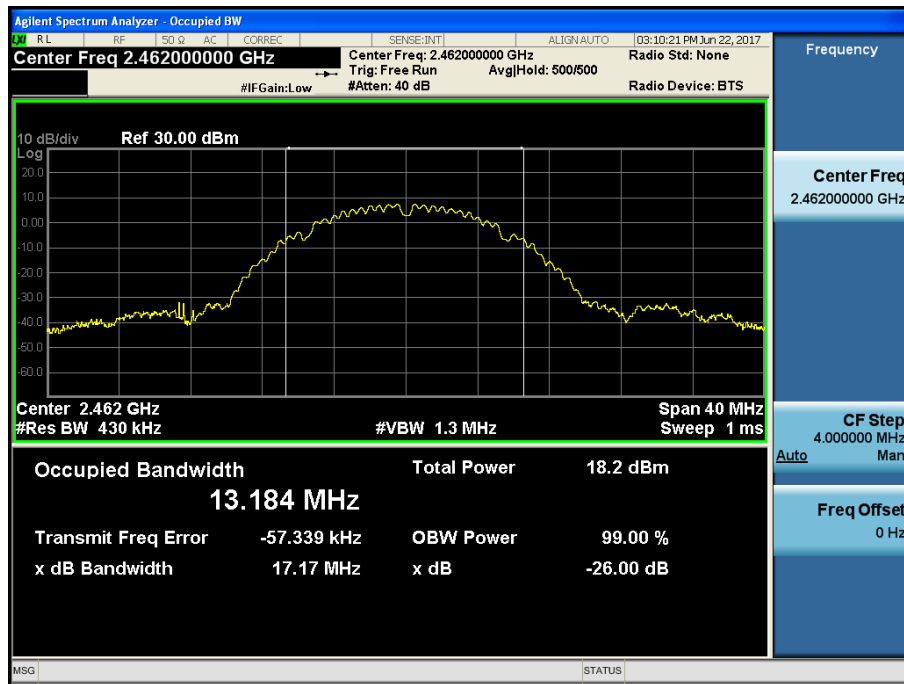
Occupied Bandwidth

Test Mode: 802.11b & 1 Mbps & 2437 MHz



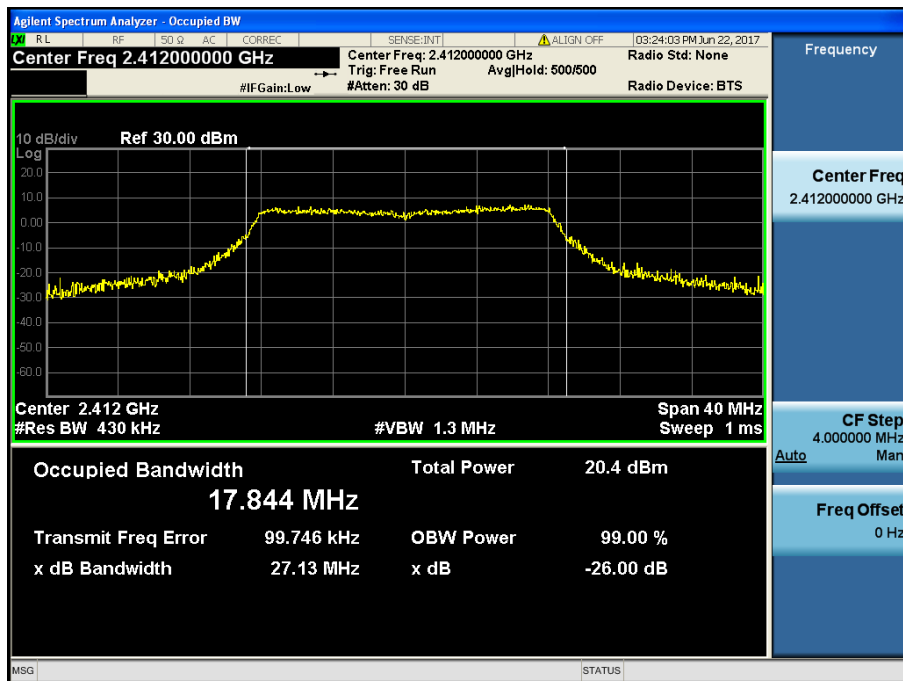
Occupied Bandwidth

Test Mode: 802.11b & 1 Mbps & 2462 MHz



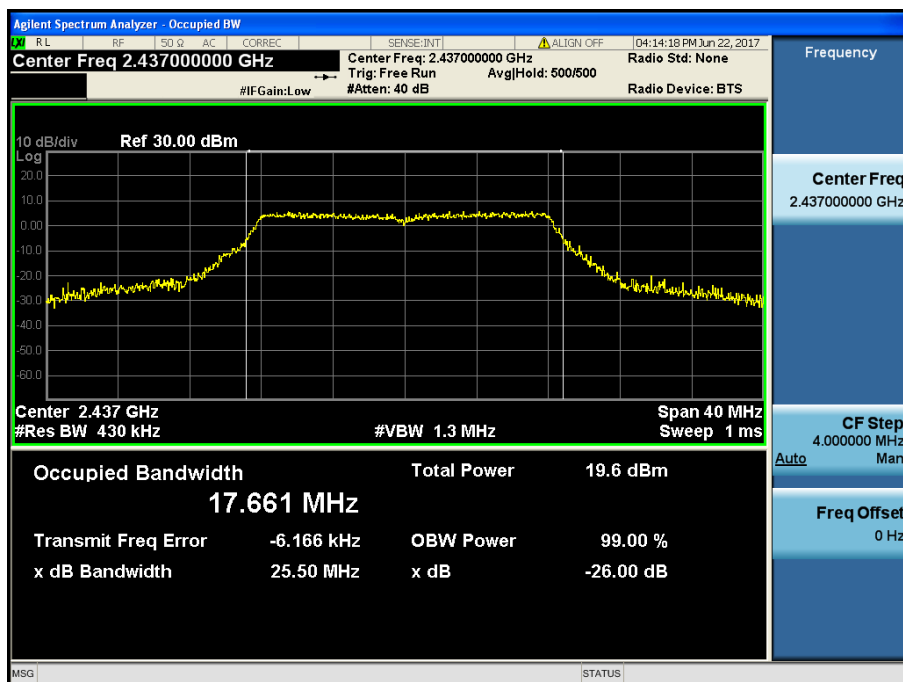
Occupied Bandwidth

Test Mode: 802.11g & 6 Mbps & 2412 MHz



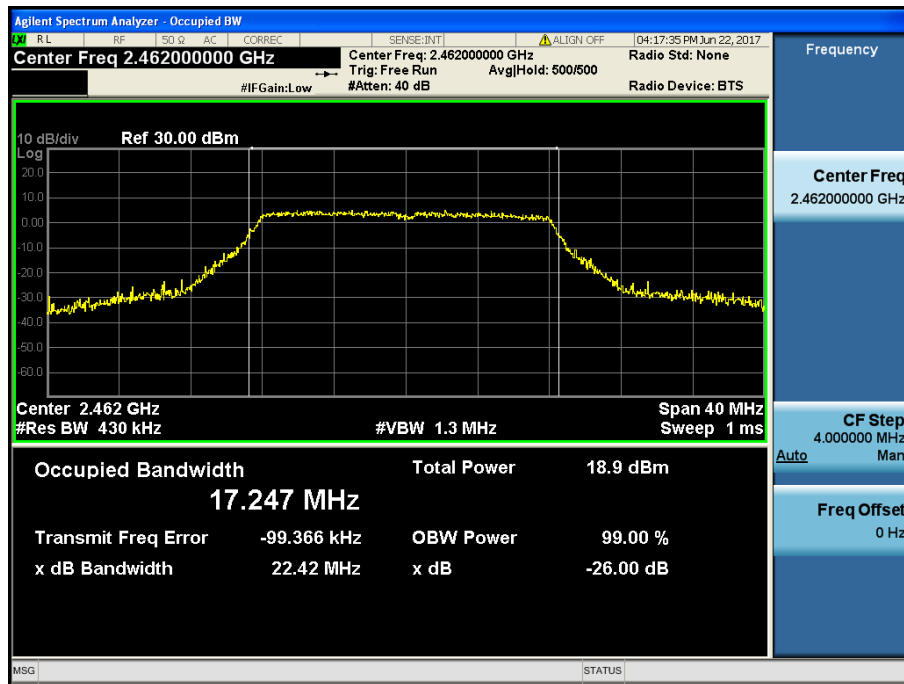
Occupied Bandwidth

Test Mode: 802.11g & 6 Mbps & 2437 MHz



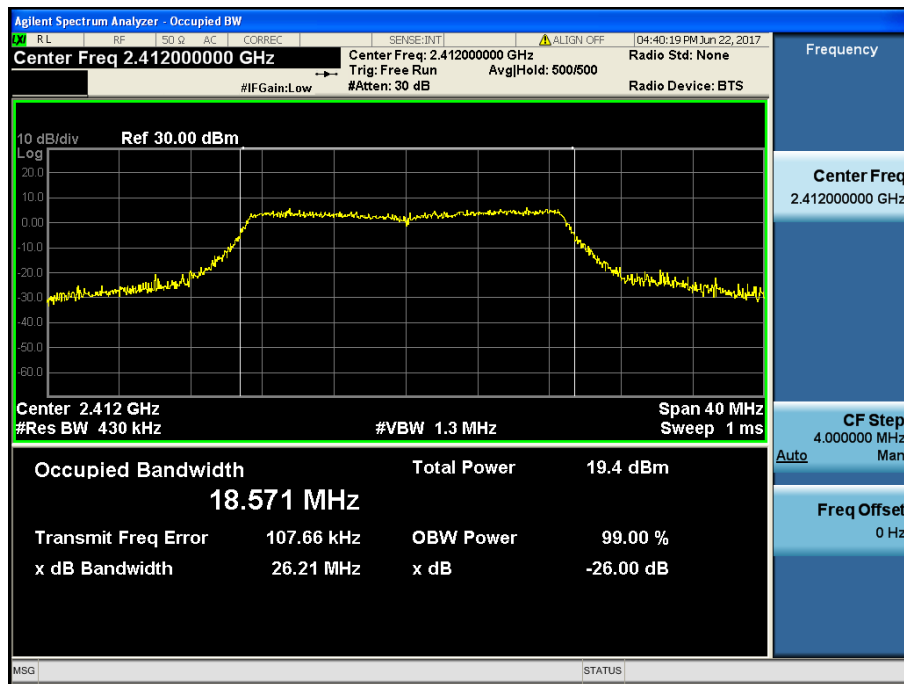
Occupied Bandwidth

Test Mode: 802.11g & 6 Mbps & 2462 MHz



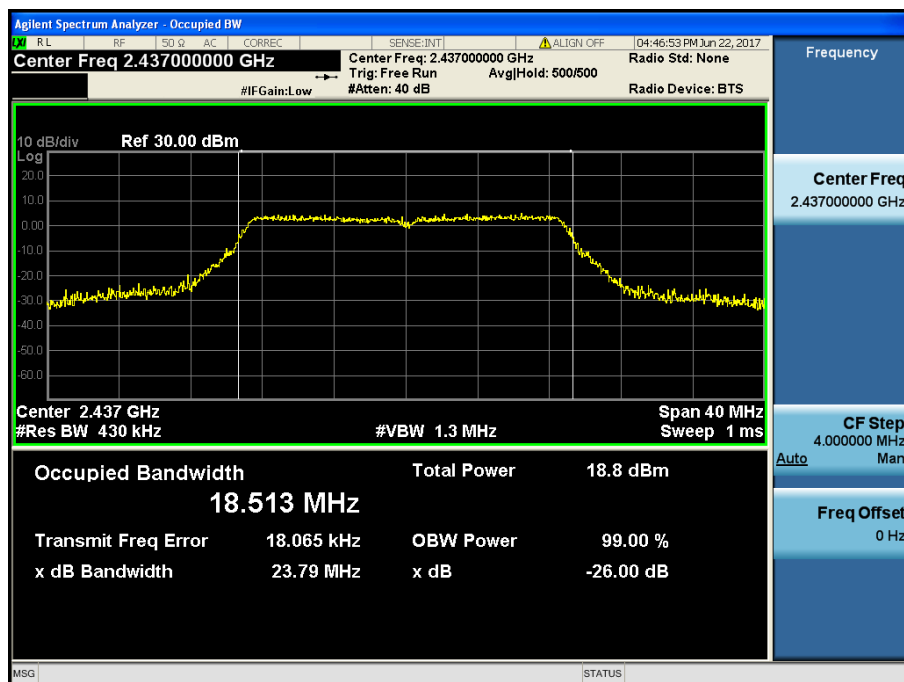
Occupied Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2412 MHz



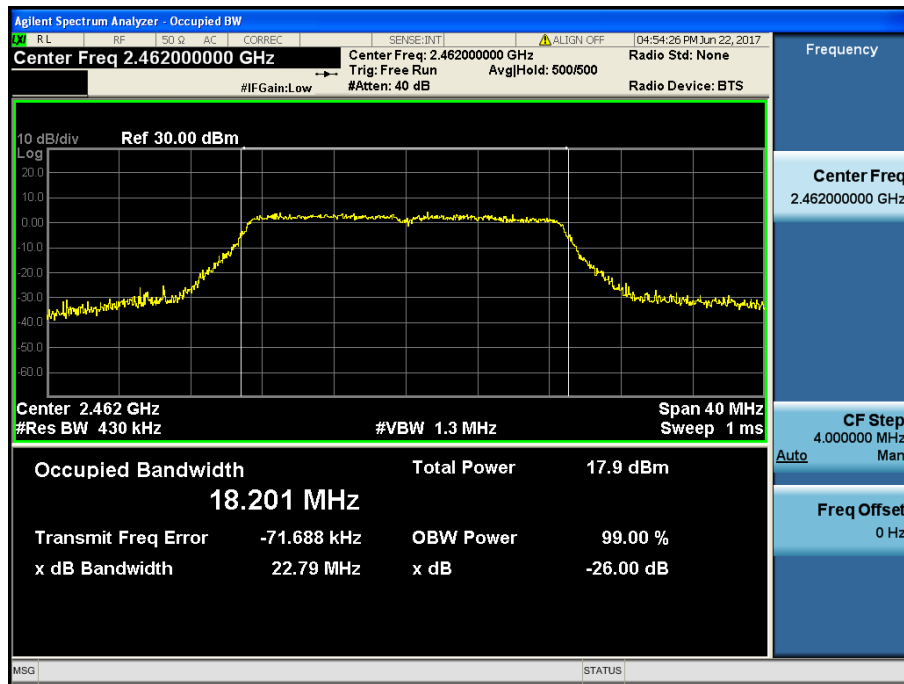
Occupied Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2437 MHz



Occupied Bandwidth

Test Mode: 802.11n(HT20) & MCS 0 & 2462 MHz



7. LIST OF TEST EQUIPMENT

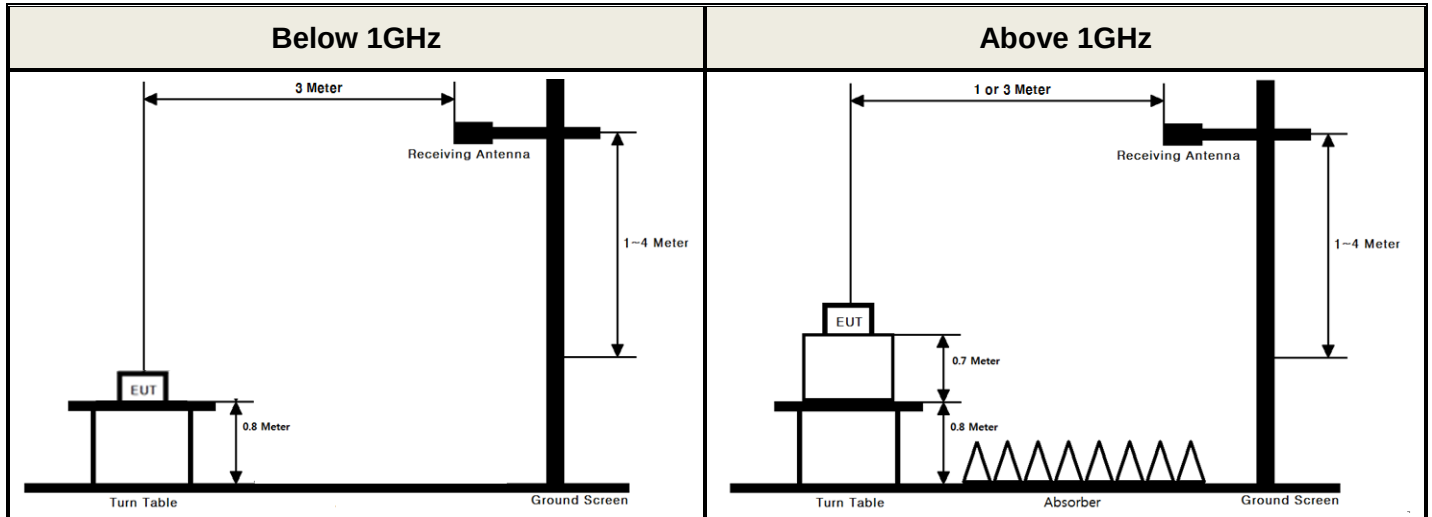
Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	16/09/09	17/09/09	MY50200834
Digital Multimeter	Agilent Technologies	34401A	17/01/04	18/01/04	US36099541
DC Power Supply	Agilent Technologies	66332A	16/09/08	17/09/08	US37473305
Vector Signal Generator	Rohde Schwarz	SMBV100A	17/01/04	18/01/04	255571
Signal Generator	Rohde Schwarz	SMF100A	17/04/21	18/04/21	102341
Attenuator(10dB)	Hefei Shunze	SS5T2.92-10-40	17/01/11	18/01/11	16012202
Thermohygrometer	BODYCOM	BJ5478	17/04/11	18/04/11	120612-2
Loop Antenna	Schwarzbeck	FMZB1513	16/04/22	18/04/22	1513-128
BILOG Antenna	SCHWARZBECK	VULB9160	16/11/11	18/11/11	3151
Horn Antenna	ETS-LINDGREN	3117	16/05/03	18/05/03	00140394
Horn Antenna	A.H.Systems Inc.	SAS-574	17/04/25	19/04/25	154
PreAmplifier	Agilent Technologies	8449B	16/10/19	17/10/19	3008A02108
Low Noise Pre Amplifier	tsj	MLA-010K01-B01-27	17/03/06	18/03/06	1844539
EMI TEST RECEIVER	Rohde Schwarz	ESR7	17/02/16	18/02/16	101061
EMI TEST RECEIVER	Rohde Schwarz	ESCI	17/02/18	18/02/18	100364
Highpass Filter	Wainwright Instruments	WHKX12-2580-3000-18000-80SS	16/09/09	17/09/09	3
Highpass Filter	Wainwright Instruments	WHNX6-6320-8000-26500-40CC	16/09/13	17/09/13	1
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2495A	17/04/11	18/04/11	1306007
Power Meter & Wide Bandwidth Sensor	Anritsu	MA2490A	17/04/11	18/04/11	1249001
ARTIFICIAL MAINS NETWORK	ROHDE&SCHWARZ	ESH2-Z5	16/09/08	17/09/08	828739/006
SINGLE-PHASE MASTER	NF	4420	16/09/08	17/09/08	3049354420023

Note: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2006.

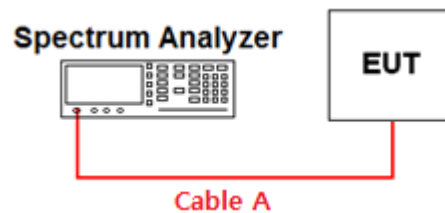
APPENDIX I

Test set up diagrams

▪ Radiated Measurement



▪ Conducted Measurement



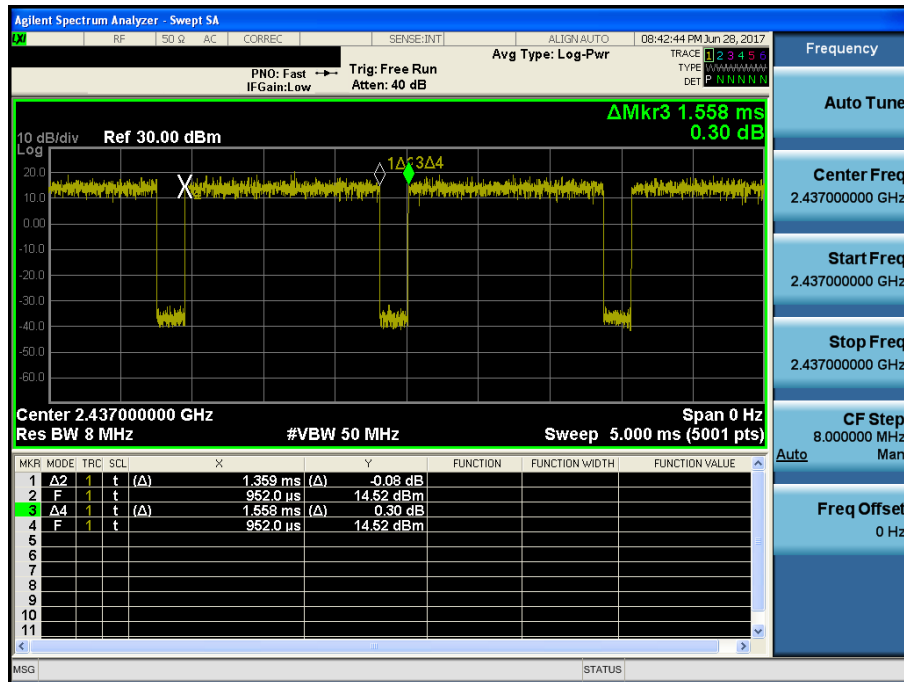
Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	0.19	15	3.19
1	0.81	20	4.44
2.402 & 2.440 & 2.480	1.24	25	5.70
5	1.85	-	-
10	2.92	-	-

Note 1: The path loss from EUT to Spectrum analyzer was measured and used for test.
 Path loss (S/A's correction factor) = Cable A
 (Attenuator, Applied only when it was used externally)

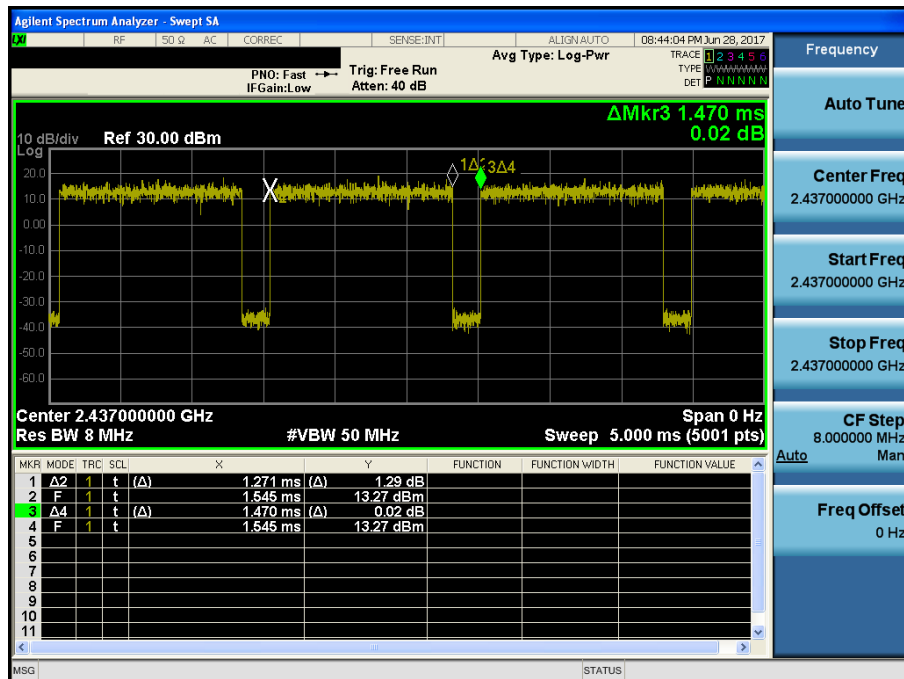
Duty Cycle

Test Mode: 802.11g & 6Mbps & 2437 MHz



Duty Cycle

Test Mode: 802.11n(HT20) & MCS 0 & 2437 MHz

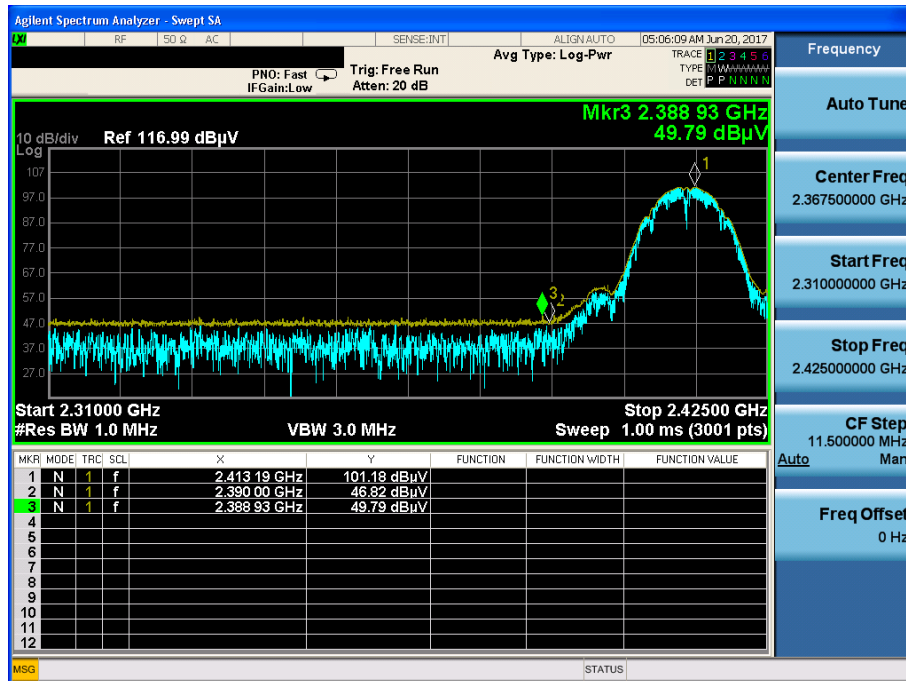


APPENDIX III

Unwanted Emissions (Radiated) Test Plot

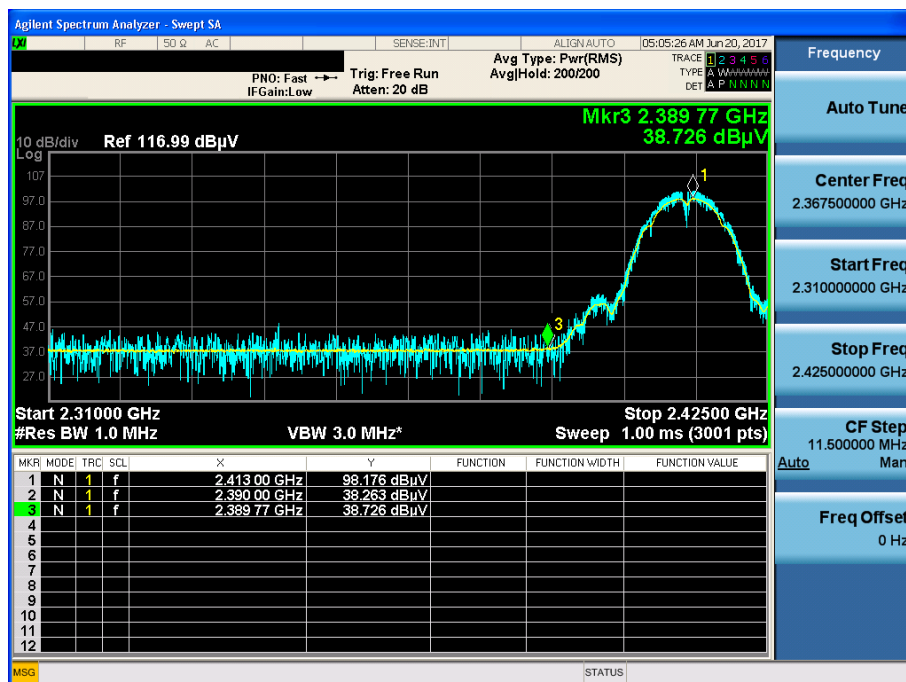
802.11b & Lowest & Y & Hor

Detector Mode : PK



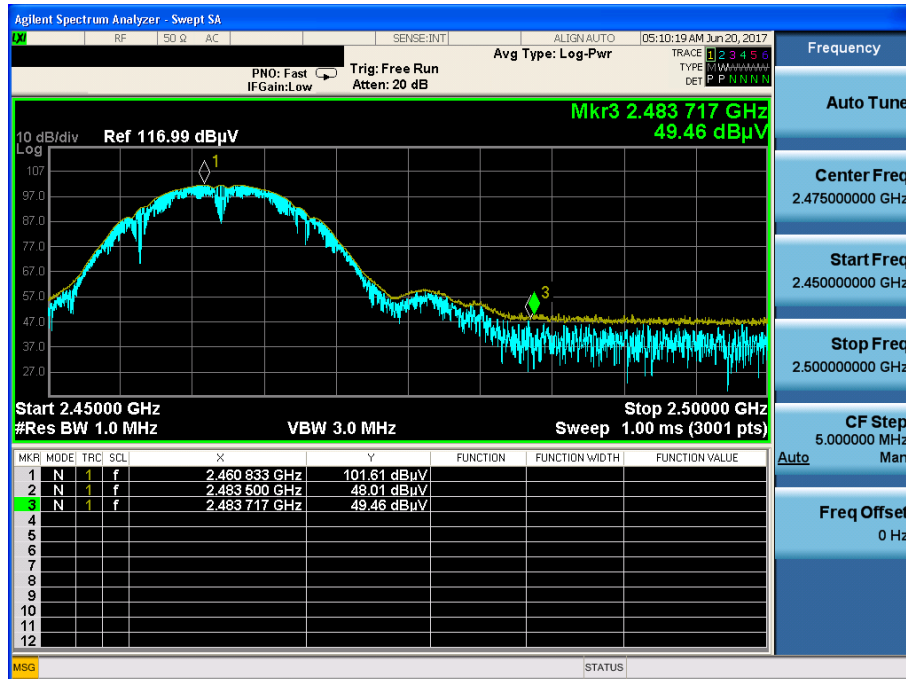
802.11b & Lowest & Y & Hor

Detector Mode : AV



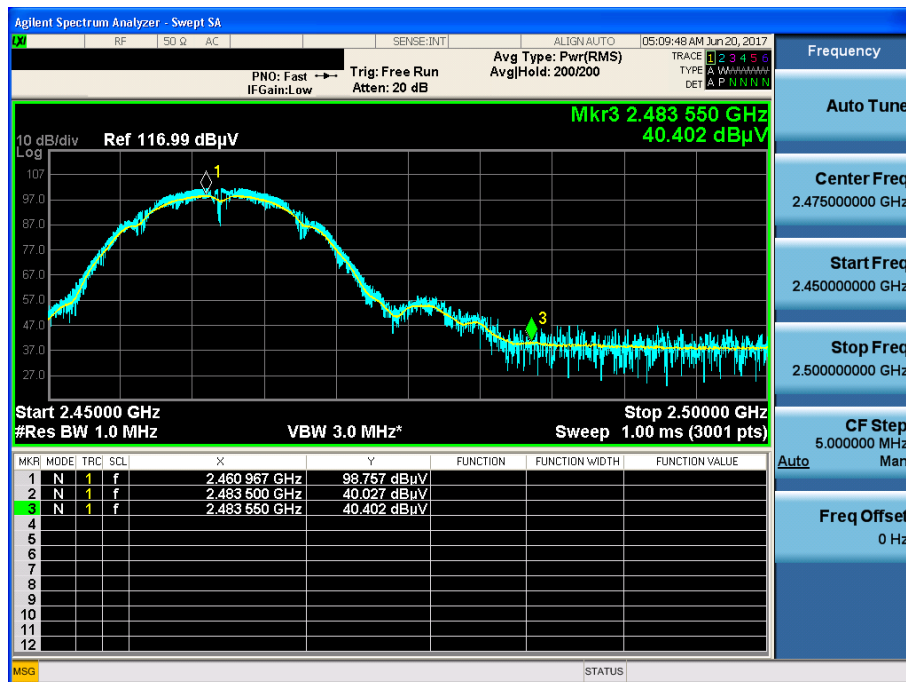
802.11b & Highest & Y & Hor

Detector Mode : PK



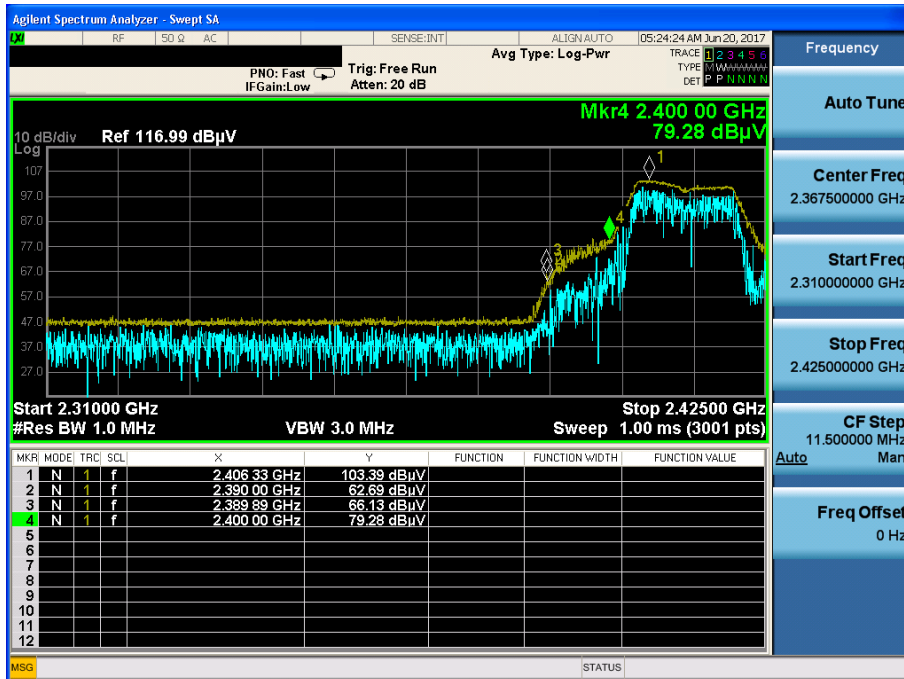
802.11b & Highest & Y & Hor

Detector Mode : AV



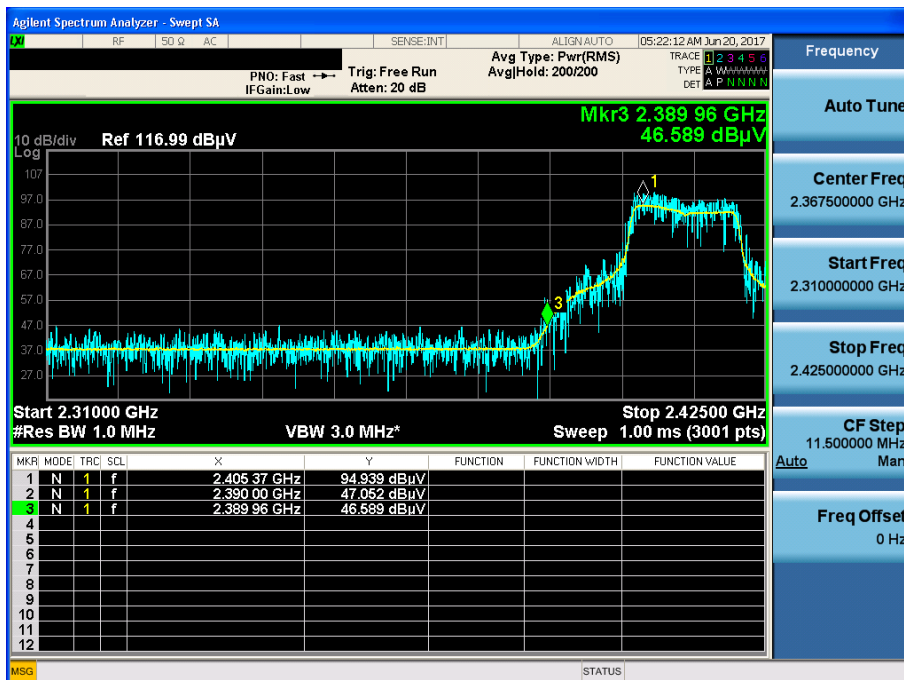
802.11g & Lowest & Y & Hor

Detector Mode : PK



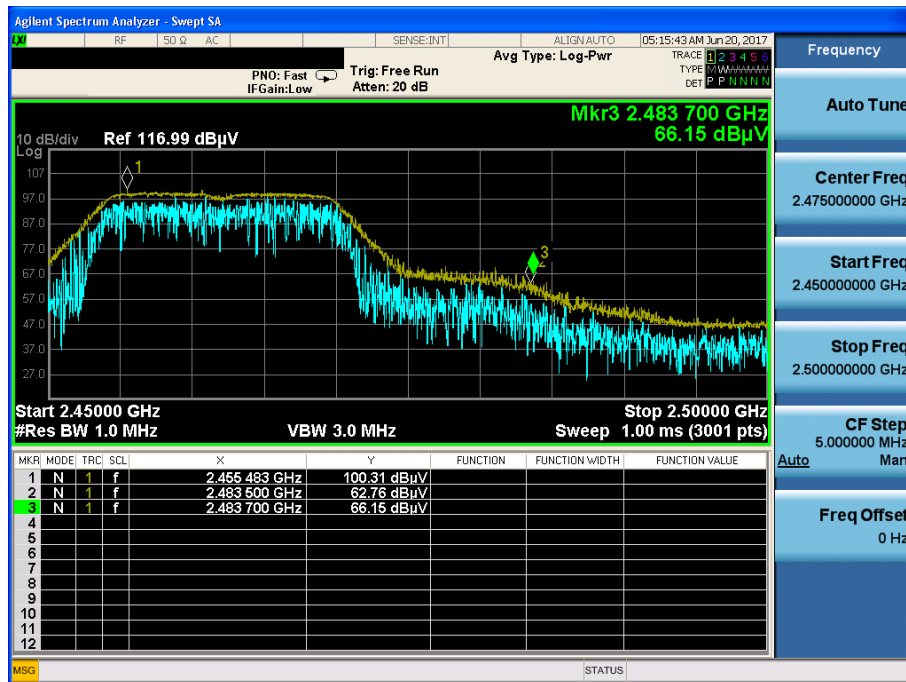
802.11g & Lowest & Y & Hor

Detector Mode : AV



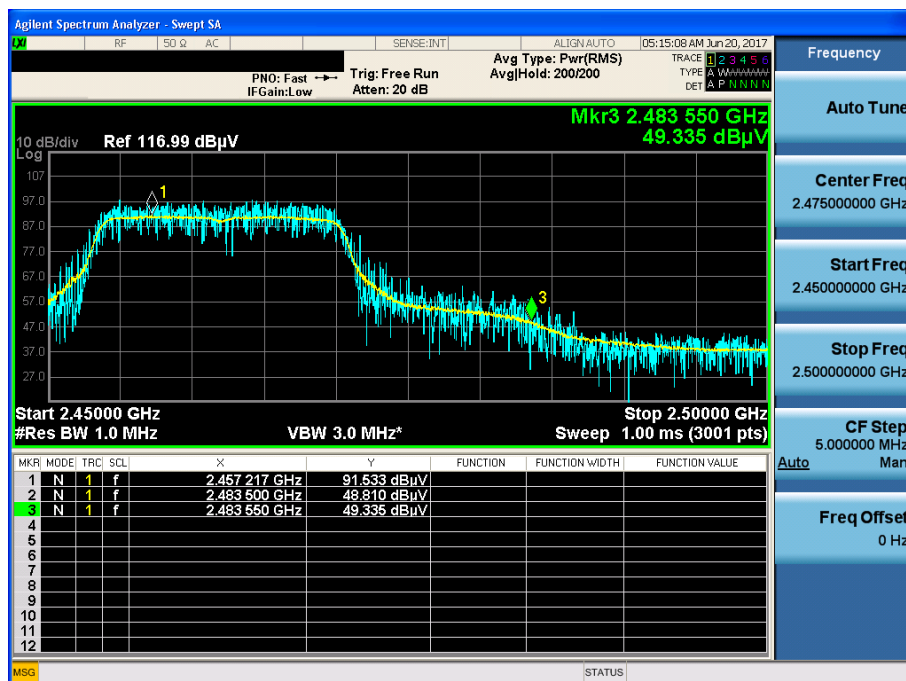
802.11g & Highest & Y & Hor

Detector Mode : PK



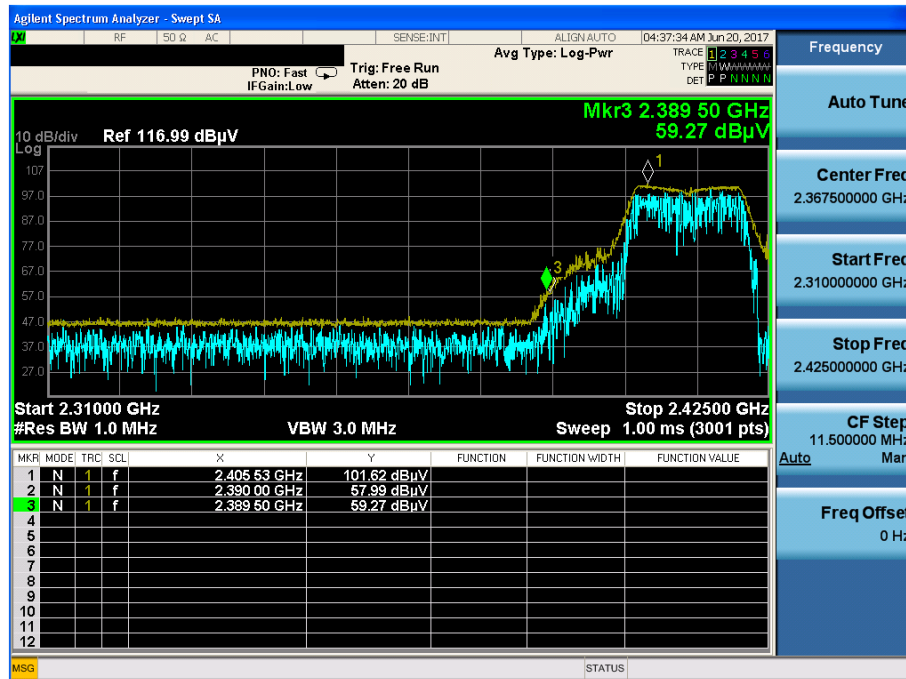
802.11g & Highest & Y & Hor

Detector Mode : AV



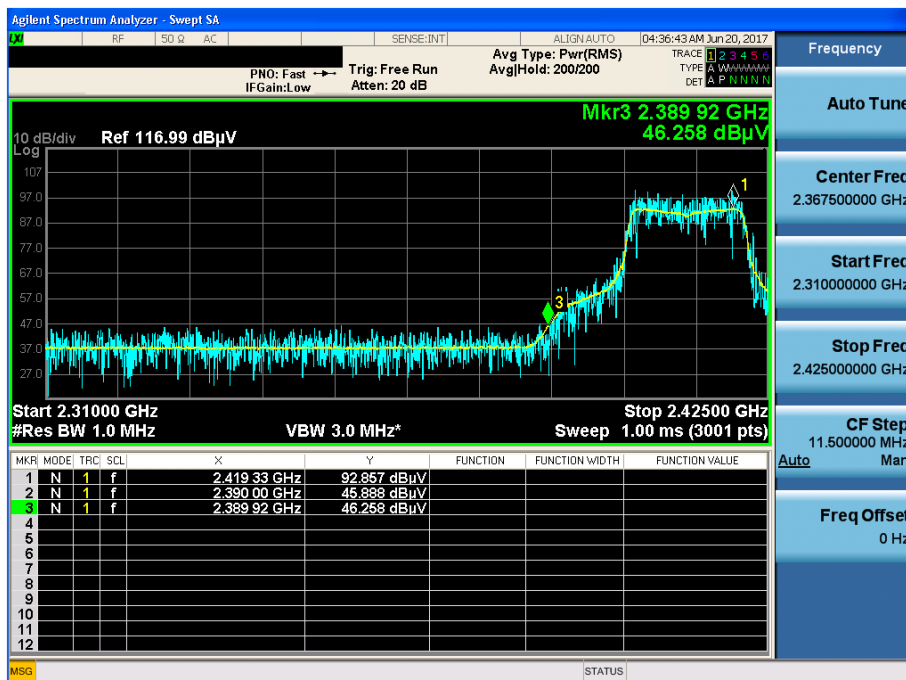
802.11n(HT20) & Lowest & Y & Hor

Detector Mode : PK

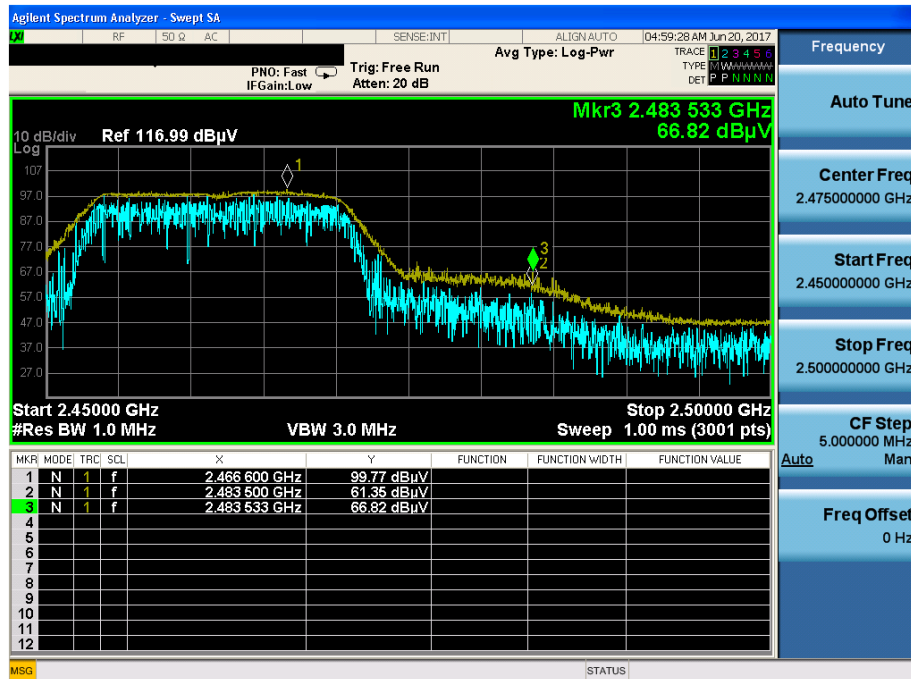


802.11n(HT20) & Lowest & Y & Hor

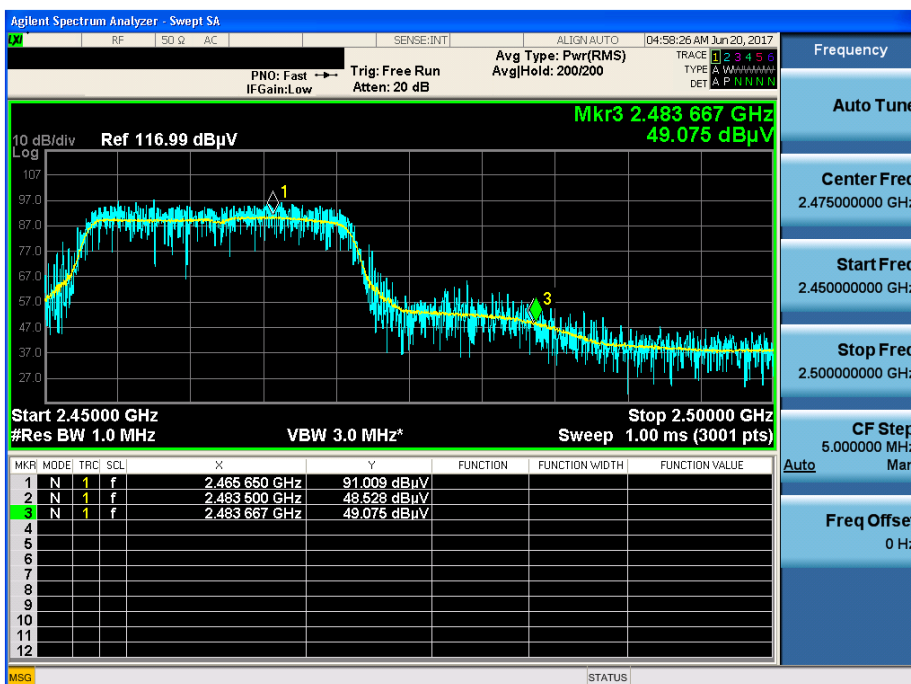
Detector Mode : AV



Detector Mode : PK



Detector Mode : AV



802.11n(HT20) & Lowest & X & Hor

Detector Mode : AV

