

FCC Test Report

(Class II Permissive Change)

Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Model No	7265NGW
FCC ID.	MSQ7265NG

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	Aug. 13, 2014
Issue Date	Nov. 03, 2014
Report No.	1480360R-RFUSP25V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issue Date: Nov. 03, 2014

Report No.: 1480360R-RFUSP25V00



Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	Intel Mobile Communications
Model No.	7265NGW
FCC ID.	MSQ7265NG
EUT Rated Voltage	DC 3.3V (via Mini-PCI Express slot)
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2013 ANSI C63.10: 2009, KDB 558074 D01 DTS Meas Guidance v03r02
Test Result	Complied

Documented By

:



(Senior Adm. Specialist / Leven Huang)

Tested By

:



(Engineer / Andy Lin)

Approved By

:



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Trade Name	Intel
Model No.	7265NGW
FCC ID.	MSQ7265NG
Frequency Range	802.11b/g/n-20MHz: 2412-2462MHz, 802.11n-40MHz: 2422-2452MHz 802.11a/n-20MHz: 5745-5825MHz, 802.11n-40MHz: 5755-5795MHz 802.11ac-80MHz: 5775 MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7 802.11a/n-20MHz: 5, n-40MHz: 2 802.11ac-80MHz: 1
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7MHz
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20MHz: 20MHz 802.11n-40MHz: 40MHz, 802.11ac-80MHz: 80MHz
Type of Modulation	802.11b:DSSS, DBPSK, DQPSK, CCK 802.11a/g/n: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Test Platform.(Notebook PC)	Brand Name: ASUS, M/N: UX305F
Power Adapter	MFR : PI, M/N : AD891M21 INPUT : AC 100-240V, 50-60Hz, 0.8A OUTPUT : DC 19V, 2.37A Cable out : Shielded, 2m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	TONGDA	T-543-3010103-A (Tx1 / Rx1) T-543-3010103-A (Tx2 / Rx2)	PIFA Antenna	-0.41dBi For 2.4GHz 0.32dBi For 5725-5850GHz
2	INPAQ	WA-F-LBLB-02-003 (Main) WA-F-LBLB-02-003 (Aux)	PIFA Antenna	-0.72dBi For 2.4GHz 0.62dBi For 5725-5850GHz

Note: 1. The antenna of EUT is conform to FCC 15.203

2. Only the higher gain antenna was tested and recorded in this report.

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 149:	5745 MHz	Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz
Channel 165:	5825 MHz						

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 3:	2422 MHz	Channel 4:	2427 MHz	Channel 5:	2432 MHz	Channel 6:	2437 MHz
Channel 7:	2442 MHz	Channel 8:	2447 MHz	Channel 9:	2452 MHz		

802.11n-40MHz (5G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 151:	5755 MHz	Channel 159:	5795 MHz

802.11ac-80MHz Carrier Frequency of Each Channel:

Channel	Frequency
Channel 155:	5775 MHz

Note:

1. This device is a INTEL DUAL BAND WIRELESS-AC 7265, Contains functions and so on WLAN 、 Bluetooth, This report for WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps 、 802.11g is 6Mbps 、 802.11n(20M-BW) is 14.4Mbps 、 802.11n(40M-BW) is 30Mbps) and 802.11ac(80M-BW) is 65Mbps.
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11a/b/g/n/ac transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
5. This is to request a Class II permissive change for FCC ID: MSQ7265NG, originally granted on 10/20/2014.

The major change filed under this application is:

Change #1: Additional Chassis added, Model number: UX305F

#2: Reduce the Output Power through firmware (only reduce Wi-Fi Power, Bluetooth power haven't changes).

#3: Addition two new antennas, the antenna type is the same, the antenna gain is smaller than the original application.

Test Mode:	Mode 1: Transmit - 802.11b 1Mbps
	Mode 2: Transmit - 802.11g 6Mbps
	Mode 3: Transmit - 802.11a 6Mbps
	Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)
	Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)
	Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)
	Mode 8: Transmit - 802.11ac-80BW_65Mbps(5G Band)

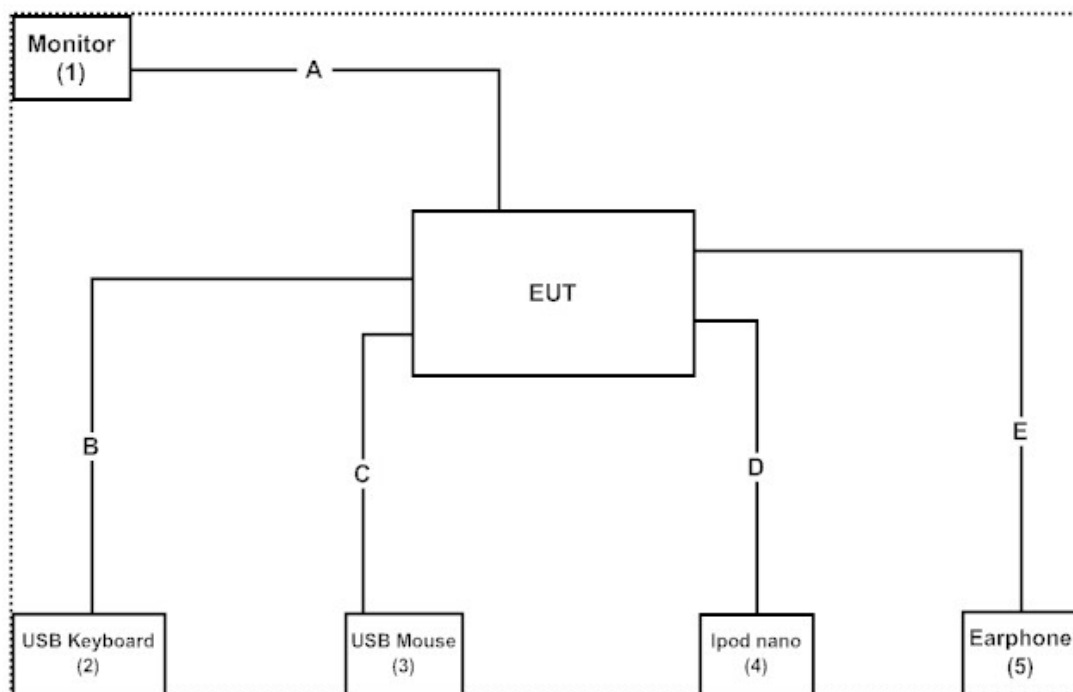
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Monitor	Dell	ST232QLf	CN-QM2NN6-72872-22I-C9WS	Non-Shielded, 1.8m
2 USB Keyboard	Logitech	Y-U0009	LZ027HU	N/A
3 USB Mouse	DELL	MOABBO	G0X00AXD	N/A
4 Ipod nano	Apple	A1199	YM709RBUVQ5	N/A
5 Earphone	Dr.AV	CD-806B	N/A	N/A

Signal Cable Type	Signal cable Description
A Micro HDMI Cable	Non-Shielded, 1.8m
B USB Keyboard Cable	Non-Shielded, 1.8m
C USB Mouse Cable	Non-Shielded, 1.8m
D Ipod nano Cable	Non-Shielded, 1m
E Earphone Cable	Non-Shielded, 1.6m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute "DRTU V1.7.3-895" program on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press "OK" to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng Linkou Dist., New Taipei City
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E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Peak Power Output

2.1. Test Equipment

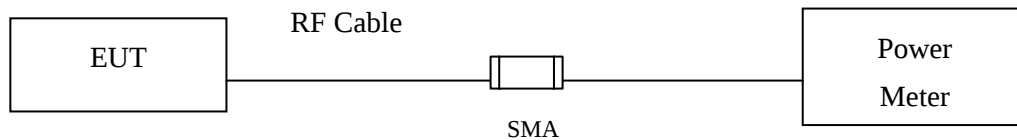
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2014
X	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2014
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2014

Note:

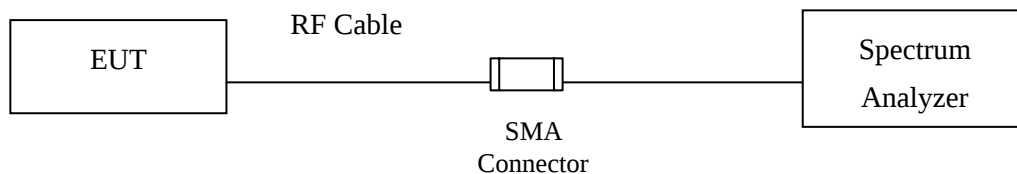
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

2.2. Test Setup

Conduction Power Measurement (for 802.11abgn)



Conduction Power Measurement (for 802.11ac)



2.3. Limits

The maximum peak power shall be less 1 Watt.

2.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 section 9.1.3 PKPM1 Peak power meter method.

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) maximum peak conducted output power was tested using spectrum measurement, when transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

2.5. Uncertainty

± 1.27 dB

2.6. Test Result of Peak Power Output

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Required Limit	Result
		1	2	5.5	11		
		Measurement Level (dBm)					
01	2412	14.44	--	--	--	<30dBm	Pass
06	2437	14.49	14.34	14.28	14.19	<30dBm	Pass
11	2462	14.46	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Required Limit	Result
		1	2	5.5	11		
		Measurement Level (dBm)					
01	2412	14.92	--	--	--	<30dBm	Pass
06	2437	14.99	14.82	14.73	14.56	<30dBm	Pass
11	2462	14.97	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
01	2412	13.99	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	14.45	14.32	14.25	14.13	14.07	13.93	13.82	13.79	<30dBm	Pass
11	2462	12.42	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
01	2412	12.41	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	15.00	14.89	14.74	14.63	14.55	14.47	14.32	14.29	<30dBm	Pass
11	2462	12.50	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
149	5745	12.24	--	--	--	--	--	--	--	<30dBm	Pass
157	5785	10.99	10.84	10.74	10.69	10.55	10.47	10.39	10.31	<30dBm	Pass
165	5825	10.42	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
149	5745	11.95	--	--	--	--	--	--	--	<30dBm	Pass
157	5785	11.96	11.91	11.84	11.79	11.62	11.53	11.44	11.37	<30dBm	Pass
165	5825	11.73	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4		
		Measurement Level (dBm)									
01	2412	11.79	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	14.40	14.37	14.28	14.15	14.07	14.02	13.98	13.76	<30dBm	Pass
11	2462	11.98	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4		
		Measurement Level (dBm)									
01	2412	11.99	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	14.46	14.38	14.25	14.17	14.09	13.92	13.84	13.73	<30dBm	Pass
11	2462	12.24	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	14.4	11.79	11.99	14.90	<30dBm	Pass
6	2437	14.4	14.40	14.46	17.44	<30dBm	Pass
11	2462	14.4	11.98	12.24	15.12	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		30	60	90	120	180	240	270	300		
		Measurement Level (dBm)									
03	2422	9.50	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	13.41	13.33	13.25	13.17	13.11	13.02	12.94	12.88	<30dBm	Pass
09	2452	9.50	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		30	60	90	120	180	240	270	300		
		Measurement Level (dBm)									
03	2422	9.50	--	--	--	--	--	--	--	<30dBm	Pass
06	2437	13.31	13.29	13.18	13.05	12.92	12.78	12.65	12.54	<30dBm	Pass
09	2452	9.50	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	30	9.50	9.50	12.51	<30dBm	Pass
6	2437	30	13.41	13.31	16.37	<30dBm	Pass
9	2452	30	9.50	9.50	12.51	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4		
Measurement Level (dBm)											
149	5745	10.45	--	--	--	--	--	--	--	<30dBm	Pass
157	5785	10.36	10.32	10.28	10.21	10.17	10.11	10.08	9.92	<30dBm	Pass
165	5825	9.94	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Required Limit	Result
		For different Data Rate (Mbps)									
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4		
Measurement Level (dBm)											
149	5745	10.48	--	--	--	--	--	--	--	<30dBm	Pass
157	5785	10.41	10.37	10.29	10.22	10.15	10.05	9.98	9.87	<30dBm	Pass
165	5825	9.90	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
149	5745	14.4	10.45	10.48	13.48	<30dBm	Pass
157	5785	14.4	10.36	10.41	13.40	<30dBm	Pass
165	5825	14.4	9.94	9.90	12.93	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		30	60	90	120	180	240	270	300		
		Measurement Level (dBm)									
151	5755	10.49	--	--	--	--	--	--	--	<30dBm	Pass
159	5795	10.15	10.08	10.01	9.92	9.84	9.71	9.66	9.54	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		30	60	90	120	180	240	270	300		
		Measurement Level (dBm)									
151	5755	10.44	--	--	--	--	--	--	--	<30dBm	Pass
159	5795	10.28	10.17	10.09	9.9	9.74	9.62	9.51	9.4	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
151	5755	30	10.49	10.44	13.48	<30dBm	Pass
159	5795	30	10.15	10.28	13.23	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 8: Transmit - 802.11ac-80BW_65Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)										Required Limit	Result
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9		
		Measurement Level (dBm)											
155	5775	10.48	10.44	10.34	10.25	10.19	10.11	10.07	9.98	9.84	9.56	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)										Required Limit	Result
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9		
		Measurement Level (dBm)											
155	5775	10.46	10.31	10.26	10.14	10.11	10.08	10.01	9.89	9.74	9.66	<30dBm	Pass

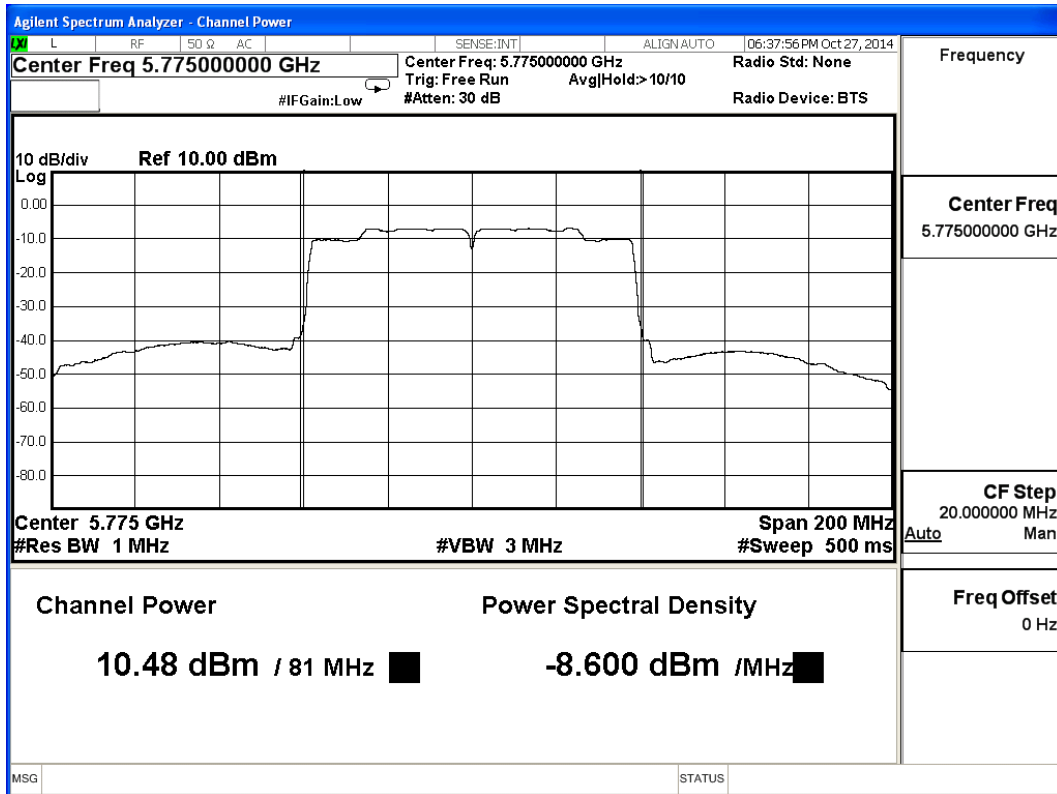
Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

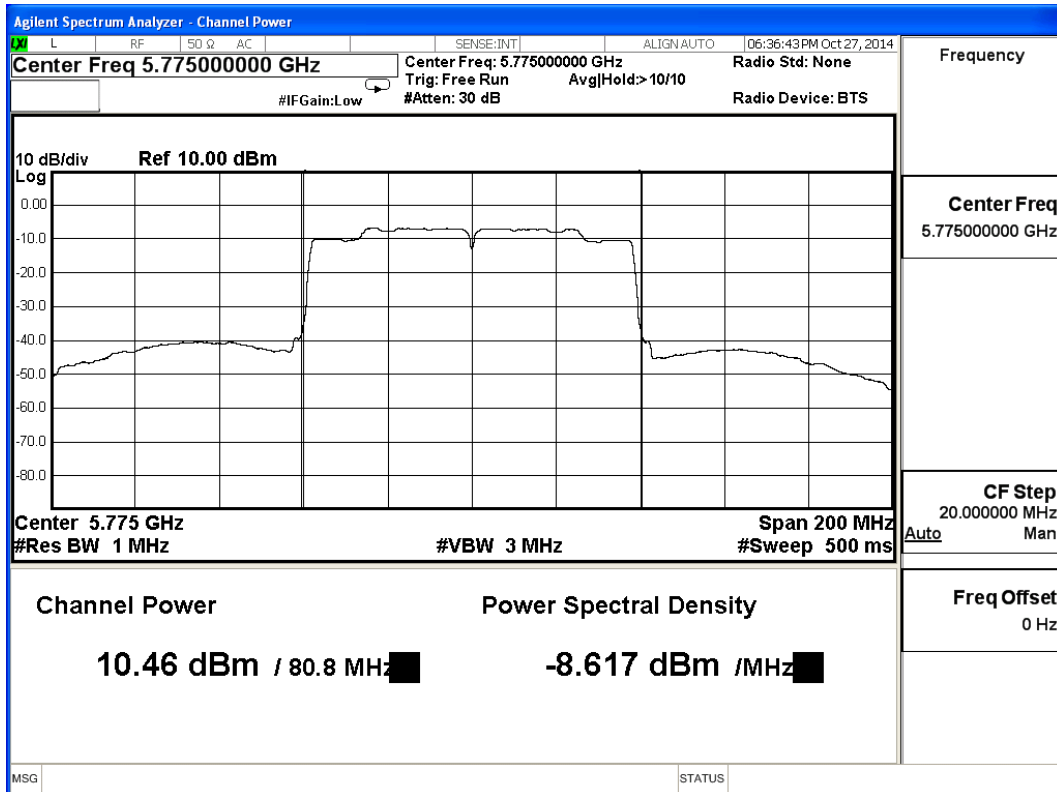
Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
155	5775	VTH0	10.48	10.46	13.48	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Peak Power Output Channel 155– Chain A



Channel 155– Chain B



3. Radiated Emission

3.1. Test Equipment

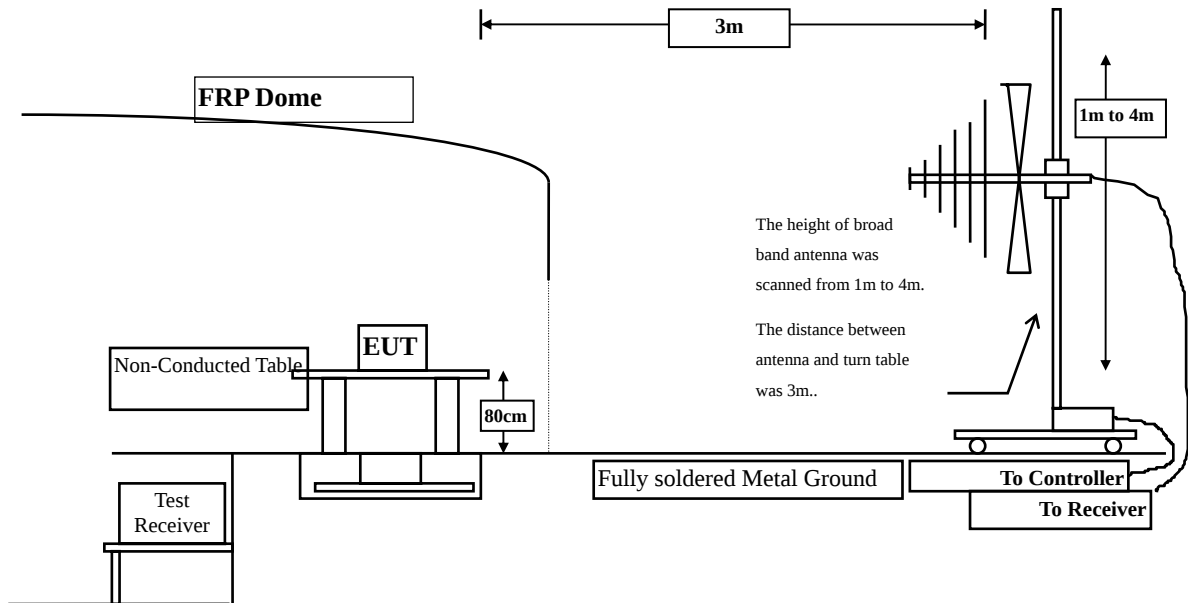
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2014
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2014
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2014
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2014
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2014
	X	Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2014
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2014
	X	Coaxial Cable	QuietTek	QTK-CABLE/ CAB5	Feb., 2014
	X	Controller	QuietTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

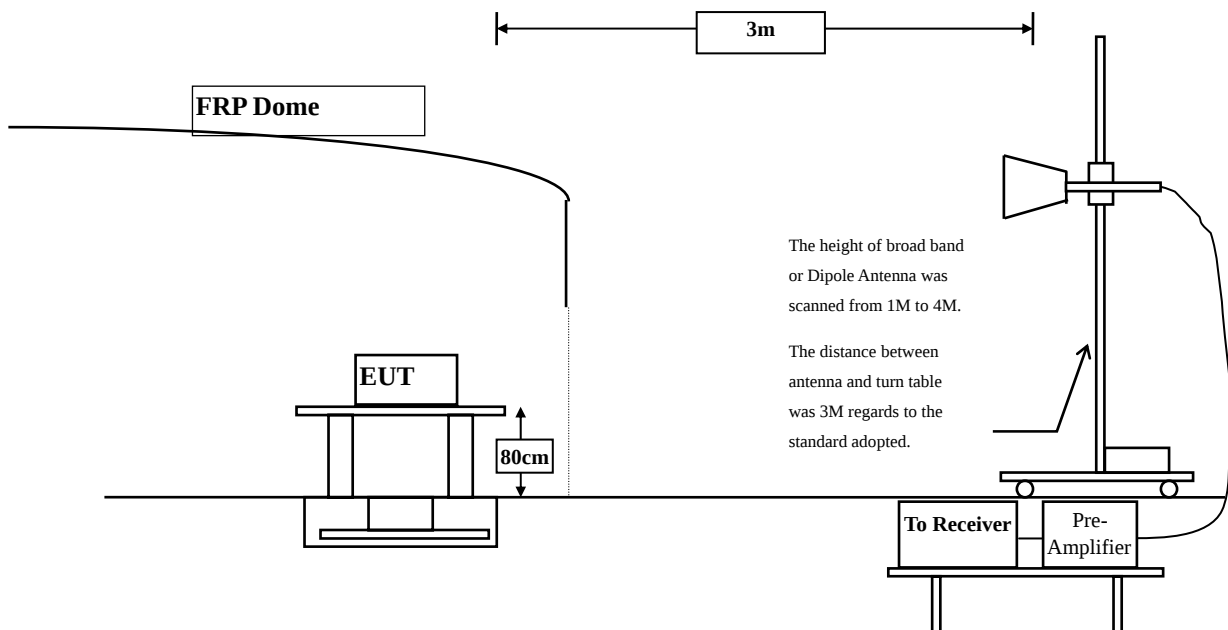
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



3.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

3.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

3.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

3.6. Test Result of Radiated Emission

Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	44.960	48.221	-25.779	74.000
7236.000	10.650	37.260	47.910	-26.090	74.000
9648.000	13.337	37.680	51.016	-22.984	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	41.260	47.681	-26.319	74.000
7236.000	11.495	38.205	49.700	-24.300	74.000
9648.000	13.807	36.150	49.956	-24.044	74.000
Average Detector:					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	43.260	46.297	-27.703	74.000
7311.000	11.795	37.590	49.384	-24.616	74.000
9748.000	12.635	37.260	49.895	-24.105	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	41.260	47.071	-26.929	74.000
7311.000	12.630	36.890	49.519	-24.481	74.000
9748.000	13.126	37.590	50.716	-23.284	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	42.560	45.417	-28.583	74.000
7386.000	12.127	37.480	49.608	-24.392	74.000
9848.000	12.852	37.420	50.273	-23.727	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	41.090	46.610	-27.390	74.000
7386.000	13.254	37.590	50.844	-23.156	74.000
9848.000	13.367	37.990	51.357	-22.643	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	42.290	45.551	-28.449	74.000
7236.000	10.650	37.560	48.210	-25.790	74.000
9648.000	13.337	37.290	50.626	-23.374	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	41.290	47.711	-26.289	74.000
7236.000	11.495	38.560	50.055	-23.945	74.000
9648.000	13.807	36.120	49.926	-24.074	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	42.950	45.987	-28.013	74.000
7311.000	11.795	38.250	50.044	-23.956	74.000
9748.000	12.635	37.260	49.895	-24.105	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	42.570	48.381	-25.619	74.000
7311.000	12.630	38.150	50.779	-23.221	74.000
9748.000	13.126	37.590	50.716	-23.284	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	42.590	45.447	-28.553	74.000
7386.000	12.127	37.980	50.108	-23.892	74.000
9848.000	12.852	38.560	51.413	-22.587	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	40.690	46.210	-27.790	74.000
7386.000	13.254	37.510	50.764	-23.236	74.000
9848.000	13.367	38.510	51.877	-22.123	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5745 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11490.000	17.106	36.150	53.257	-20.743	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11490.000	18.034	35.230	53.265	-20.735	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	36.290	53.099	-20.901	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11570.000	17.698	36.190	53.888	-20.112	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5825 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11650.000	16.158	36.120	52.278	-21.722	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11650.000	17.274	36.120	53.395	-20.605	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	45.620	48.881	-25.119	74.000
7236.000	10.650	38.150	48.800	-25.200	74.000
9648.000	13.337	38.250	51.586	-22.414	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	43.260	49.681	-24.319	74.000
7236.000	11.495	38.260	49.755	-24.245	74.000
9648.000	13.807	38.290	52.096	-21.904	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	43.150	46.187	-27.813	74.000
7311.000	11.795	38.260	50.054	-23.946	74.000
9748.000	12.635	36.120	48.755	-25.245	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	42.560	48.371	-25.629	74.000
7311.000	12.630	37.590	50.219	-23.781	74.000
9748.000	13.126	37.590	50.716	-23.284	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	42.290	45.147	-28.853	74.000
7386.000	12.127	38.150	50.278	-23.722	74.000
9848.000	12.852	38.140	50.993	-23.007	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	42.150	48.571	-25.429	74.000
7386.000	13.254	36.150	49.404	-24.596	74.000
9848.000	13.367	38.290	51.657	-22.343	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4844.000	3.171	43.260	46.431	-27.569	74.000
7266.000	11.162	37.260	48.422	-25.578	74.000
9688.000	12.964	38.150	51.115	-22.885	74.000

Average

Detector:

--

Vertical

Peak Detector:

4844.000	6.178	42.060	48.238	-25.762	74.000
7266.000	11.982	37.150	49.132	-24.868	74.000
9688.000	13.507	38.050	51.558	-22.442	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	42.590	45.627	-28.373	74.000
7311.000	11.795	37.590	49.384	-24.616	74.000
9748.000	12.635	38.050	50.685	-23.315	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	42.150	47.961	-26.039	74.000
7311.000	12.630	37.050	49.679	-24.321	74.000
9748.000	13.126	38.590	51.716	-22.284	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4904.000	2.914	42.560	45.475	-28.525	74.000
7356.000	11.995	37.590	49.584	-24.416	74.000
9808.000	12.475	37.480	49.955	-24.045	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4904.000	5.530	42.890	48.421	-25.579	74.000
7356.000	13.005	37.560	50.564	-23.436	74.000
9808.000	12.901	38.010	50.911	-23.089	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5745MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measurement Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)
11490.000	17.106	36.780	53.887	-20.113	74.000

Average

Detector:

--

Vertical

Peak Detector:

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measurement Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)
11490.000	18.034	35.820	53.855	-20.145	74.000

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5785 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	36.320	53.129	-20.871	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11570.000	17.698	36.140	53.838	-20.162	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5825 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11650.000	16.158	36.260	52.418	-21.582	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
11650.000	17.274	36.450	53.725	-20.275	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11510.000	17.124	36.540	53.664	-20.336	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11510.000	18.081	35.830	53.911	-20.089	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5795 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11590.000	16.701	36.150	52.850	-21.150	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11590.000	17.567	36.120	53.686	-20.314	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 8: Transmit - 802.11ac-80BW_65Mbps(5G Band) (5775 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11550.000	16.914	35.470	52.384	-21.616	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
11550.000	17.826	35.565	53.390	-20.610	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
107.600	-7.597	34.490	26.893	-16.607	43.500
225.940	-9.647	44.883	35.236	-10.764	46.000
365.620	0.382	33.763	34.145	-11.855	46.000
600.360	3.472	26.384	29.856	-16.144	46.000
800.180	6.417	24.940	31.357	-14.643	46.000
951.500	6.993	24.981	31.974	-14.026	46.000
Vertical					
43.580	-10.919	41.976	31.057	-8.943	40.000
262.800	-4.944	33.778	28.834	-17.166	46.000
511.120	0.783	23.826	24.609	-21.391	46.000
689.600	2.302	22.662	24.964	-21.036	46.000
817.640	2.966	23.702	26.668	-19.332	46.000
920.460	3.272	23.924	27.196	-18.804	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
119.240	-7.291	35.094	27.804	-15.696	43.500
225.940	-9.647	42.339	32.692	-13.308	46.000
365.620	0.382	34.781	35.163	-10.837	46.000
526.640	3.112	26.350	29.462	-16.538	46.000
701.240	2.759	27.530	30.289	-15.711	46.000
879.720	6.618	23.824	30.442	-15.558	46.000
Vertical					
43.580	-10.919	42.949	32.030	-7.970	40.000
177.440	-1.248	28.006	26.758	-16.742	43.500
373.380	0.043	25.261	25.304	-20.696	46.000
538.280	1.996	24.180	26.176	-19.824	46.000
782.720	2.757	26.346	29.103	-16.897	46.000
930.160	3.830	23.777	27.607	-18.393	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps (5785MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
105.660	-7.676	33.563	25.886	-17.614	43.500
225.940	-9.647	40.094	30.447	-15.553	46.000
365.620	0.382	32.804	33.186	-12.814	46.000
522.760	3.176	27.220	30.396	-15.604	46.000
701.240	2.759	27.635	30.394	-15.606	46.000
854.500	7.380	24.879	32.259	-13.741	46.000
Vertical					
105.660	-4.576	32.787	28.210	-15.290	43.500
260.860	-4.870	36.198	31.328	-14.672	46.000
373.380	0.043	24.971	25.014	-20.986	46.000
612.000	1.943	24.694	26.636	-19.364	46.000
786.600	2.724	25.111	27.836	-18.164	46.000
930.160	3.830	23.470	27.300	-18.700	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
107.600	-7.597	33.823	26.226	-17.274	43.500
225.940	-9.647	42.540	32.893	-13.107	46.000
373.380	0.873	30.741	31.614	-14.386	46.000
575.140	3.025	25.616	28.641	-17.359	46.000
701.240	2.759	28.049	30.808	-15.192	46.000
897.180	5.487	23.367	28.854	-17.146	46.000
Vertical					
43.580	-10.919	41.447	30.528	-9.472	40.000
175.500	-1.842	28.100	26.258	-17.242	43.500
363.680	0.079	24.772	24.851	-21.149	46.000
536.340	1.609	25.519	27.128	-18.872	46.000
771.080	2.766	24.031	26.798	-19.202	46.000
930.160	3.830	23.422	27.252	-18.748	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
159.980	-10.030	39.087	29.056	-14.444	43.500
264.740	-5.501	34.376	28.876	-17.124	46.000
433.520	0.841	26.825	27.666	-18.334	46.000
633.340	1.530	28.323	29.853	-16.147	46.000
800.180	6.417	26.726	33.143	-12.857	46.000
930.160	7.530	23.045	30.575	-15.425	46.000
Vertical					
43.580	-10.919	42.493	31.574	-8.426	40.000
192.960	-5.655	31.358	25.703	-17.797	43.500
379.200	0.881	24.831	25.712	-20.288	46.000
596.480	0.907	23.416	24.323	-21.677	46.000
757.500	2.487	23.961	26.448	-19.552	46.000
901.060	1.858	22.760	24.618	-21.382	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band) (5785 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
105.660	-7.676	33.970	26.293	-17.207	43.500
192.960	-10.095	41.051	30.956	-12.544	43.500
365.620	0.382	35.135	35.517	-10.483	46.000
513.060	3.186	24.344	27.530	-18.470	46.000
676.020	2.841	25.256	28.098	-17.902	46.000
831.220	7.121	23.660	30.781	-15.219	46.000
Vertical					
43.580	-10.919	43.045	32.126	-7.874	40.000
159.980	-5.120	30.629	25.508	-17.992	43.500
365.620	0.282	26.938	27.220	-18.780	46.000
538.280	1.996	23.254	25.250	-20.750	46.000
753.620	2.730	23.340	26.070	-19.930	46.000
901.060	1.858	23.634	25.492	-20.508	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
119.240	-7.291	33.557	26.267	-17.233	43.500
225.940	-9.647	40.120	30.473	-15.527	46.000
365.620	0.382	34.742	35.124	-10.876	46.000
551.860	3.390	26.610	30.000	-16.000	46.000
800.180	6.417	25.506	31.923	-14.077	46.000
941.800	6.790	24.068	30.858	-15.142	46.000
Vertical					
43.580	-10.919	42.686	31.767	-8.233	40.000
173.560	-2.713	27.407	24.694	-18.806	43.500
371.440	-0.310	25.291	24.981	-21.019	46.000
606.180	2.246	23.370	25.616	-20.384	46.000
782.720	2.757	22.928	25.685	-20.315	46.000
930.160	3.830	23.042	26.872	-19.128	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 8: Transmit - 802.11ac-80BW_65Mbps(5G Band) (5775MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
150.280	-10.194	36.514	26.320	-17.180	43.500
373.380	-1.163	26.743	25.580	-20.420	46.000
534.400	2.069	26.950	29.019	-16.981	46.000
660.500	2.097	23.213	25.310	-20.690	46.000
796.300	5.161	23.603	28.764	-17.236	46.000
910.760	6.164	22.350	28.515	-17.485	46.000
Vertical					
109.540	-0.418	27.041	26.623	-16.877	43.500
220.120	-8.840	34.482	25.642	-20.358	46.000
371.440	-2.737	28.826	26.089	-19.911	46.000
522.760	-0.334	32.601	32.267	-13.733	46.000
722.580	-0.114	28.070	27.956	-18.044	46.000
879.720	2.335	28.570	30.905	-15.095	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

4. Band Edge

4.1. Test Equipment

RF Radiated Measurement:

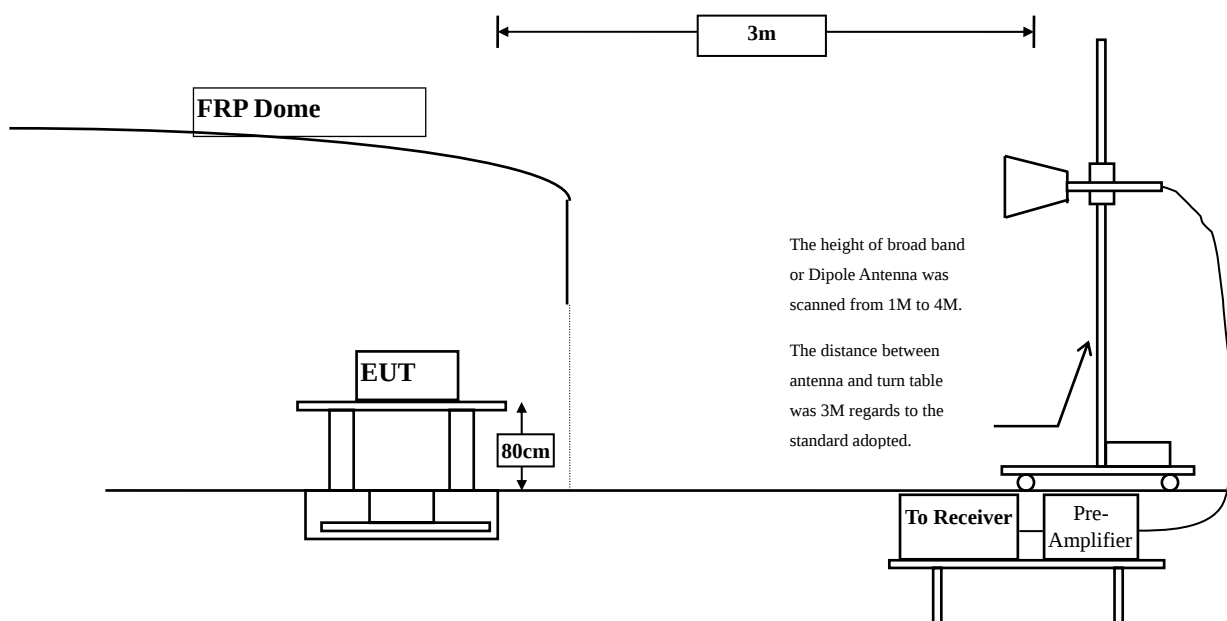
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2014
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2014
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2014
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2014
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2014
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2014
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2014
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup

RF Radiated Measurement:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009. on radiated measurement.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Band Edge

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2386.000	31.493	25.379	56.873	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	24.976	56.485	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	27.556	59.117	--	--	Pass
01 (Peak)	2413.000	31.646	69.404	101.050	--	--	Pass
01 (Average)	2390.000	31.509	14.335	45.844	74.00	54.00	Pass
01 (Average)	2400.000	31.561	20.625	52.186	--	--	Pass
01 (Average)	2412.800	31.645	65.105	96.749	--	--	Pass

Figure Channel 01: Horizontal (Peak)

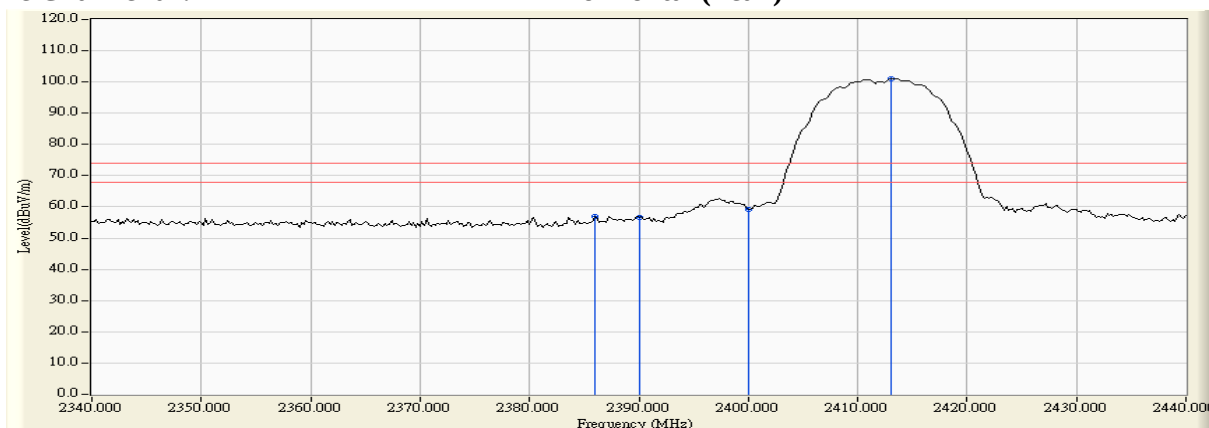
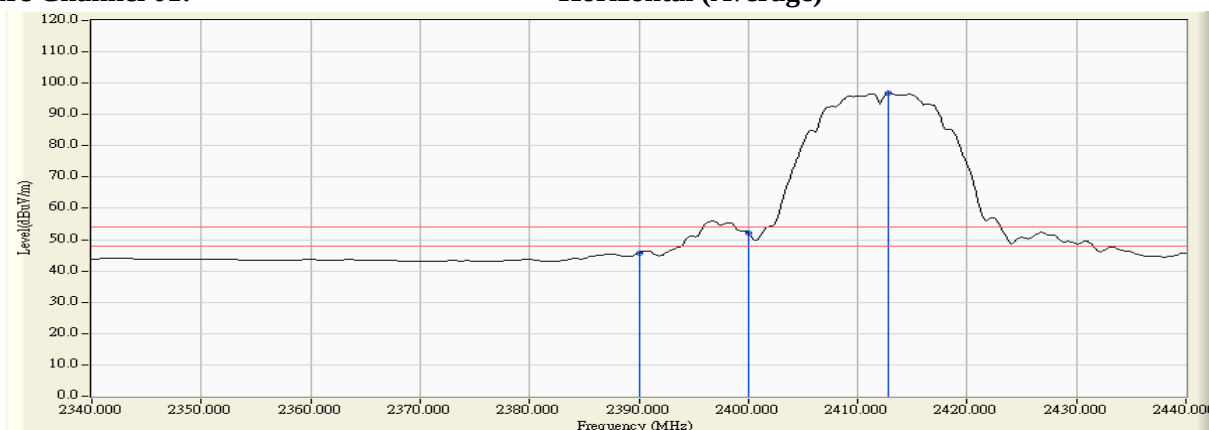


Figure Channel 01: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	30.915	24.061	54.976	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	26.761	57.673	--	--	Pass
01 (Peak)	2413.000	30.956	66.877	97.833	--	--	Pass
01 (Average)	2390.000	30.915	13.090	44.005	74.00	54.00	Pass
01 (Average)	2400.000	30.912	18.488	49.400	--	--	Pass
01 (Average)	2412.800	30.955	62.599	93.554	--	--	Pass

Figure Channel 01:

Vertical (Peak)

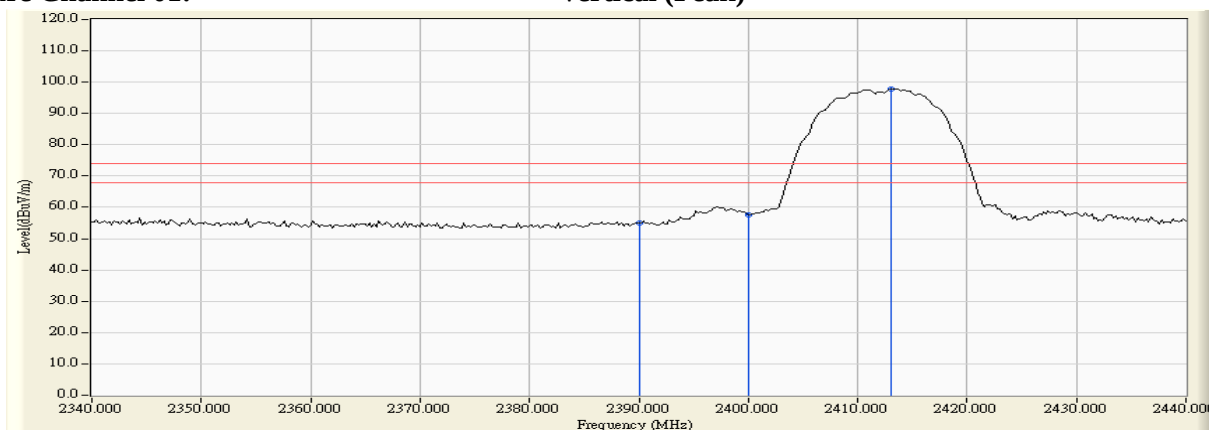
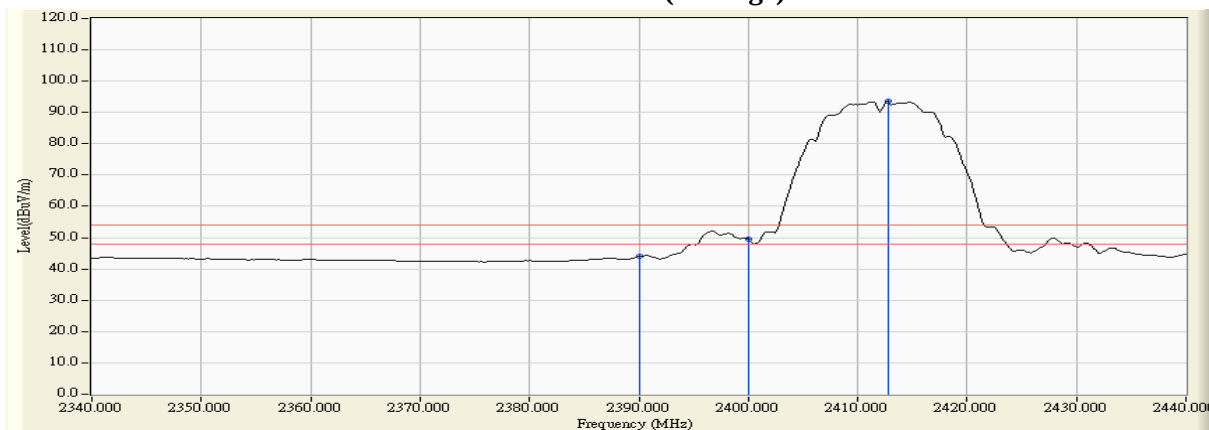


Figure Channel 01:

Vertical (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.900	32.026	69.734	101.760	--	--	Pass
11 (Peak)	2483.500	32.182	25.276	57.458	74.00	54.00	Pass
11 (Average)	2461.300	32.014	65.571	97.585	--	--	Pass
11 (Average)	2483.500	32.182	14.574	46.756	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

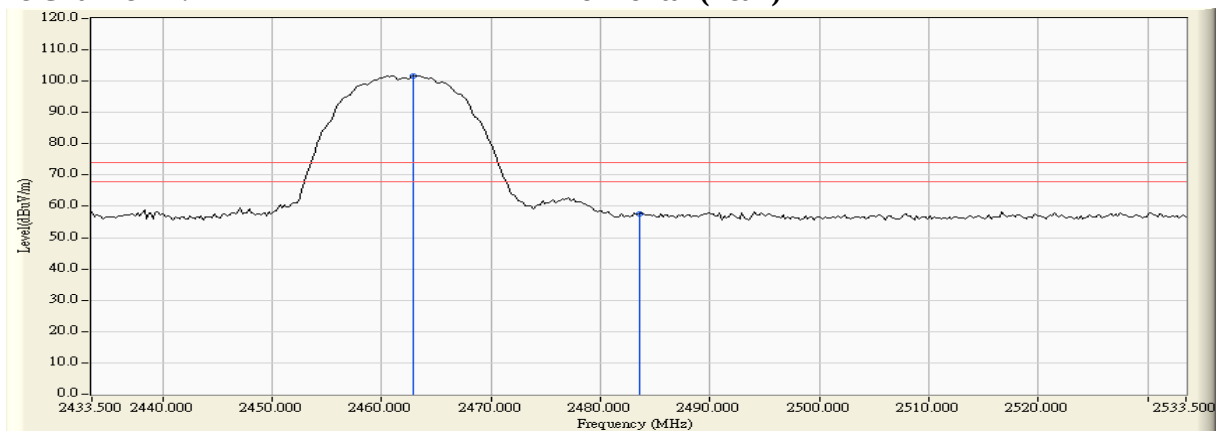
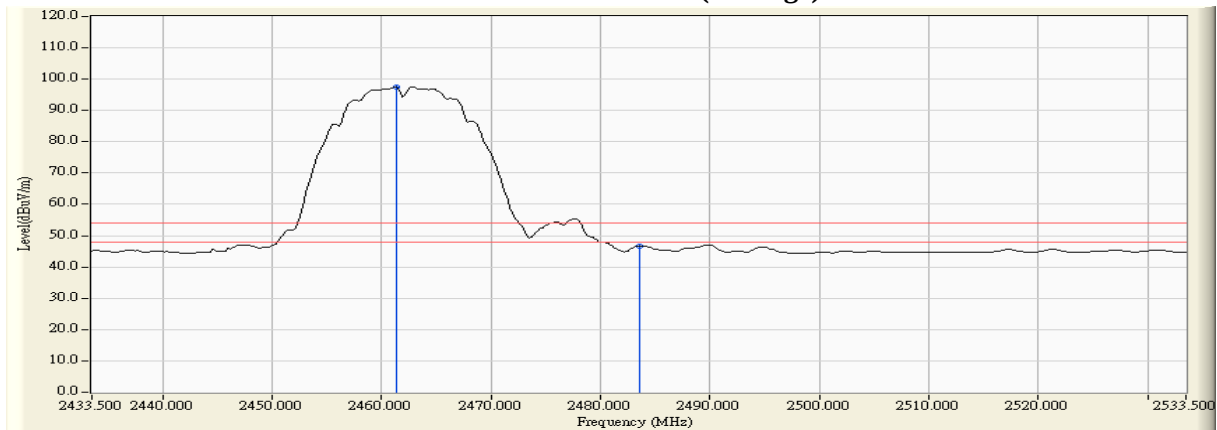


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.900	31.296	66.133	97.429	--	--	Pass
11 (Peak)	2483.500	31.435	24.575	56.010	74.00	54.00	Pass
11 (Average)	2461.300	31.286	62.217	93.503	--	--	Pass
11 (Average)	2483.500	31.435	14.727	46.162	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

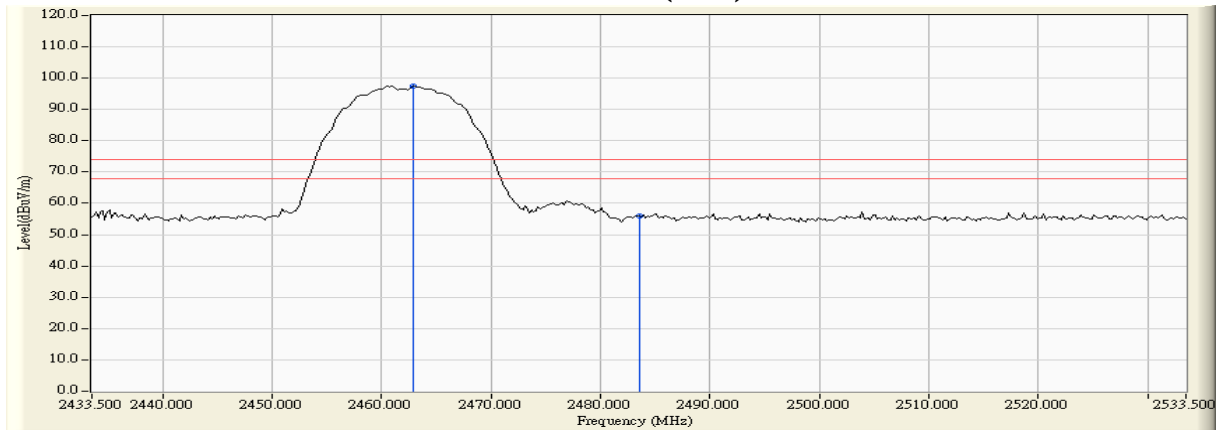
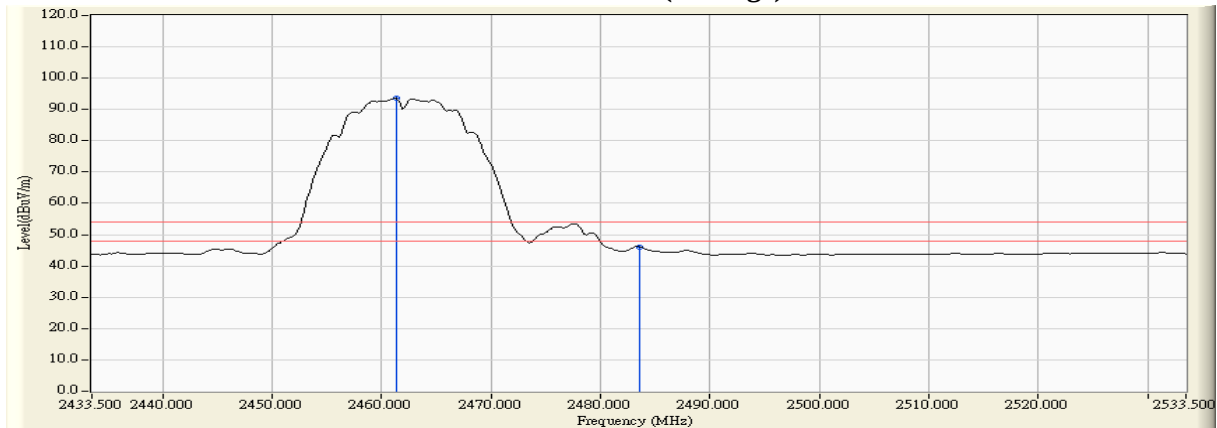


Figure Channel 11: Vertical (Average)



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	30.341	61.850	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	46.262	77.823	--	--	Pass
01 (Peak)	2415.800	31.667	71.265	102.932	--	--	Pass
01(Average)	2390.000	31.509	15.074	46.583	74.00	54.00	Pass
01(Average)	2400.000	31.561	27.533	59.094	--	--	Pass
01(Average)	2416.200	31.671	60.527	92.197	--	--	Pass

Figure Channel 01: Horizontal (Peak)

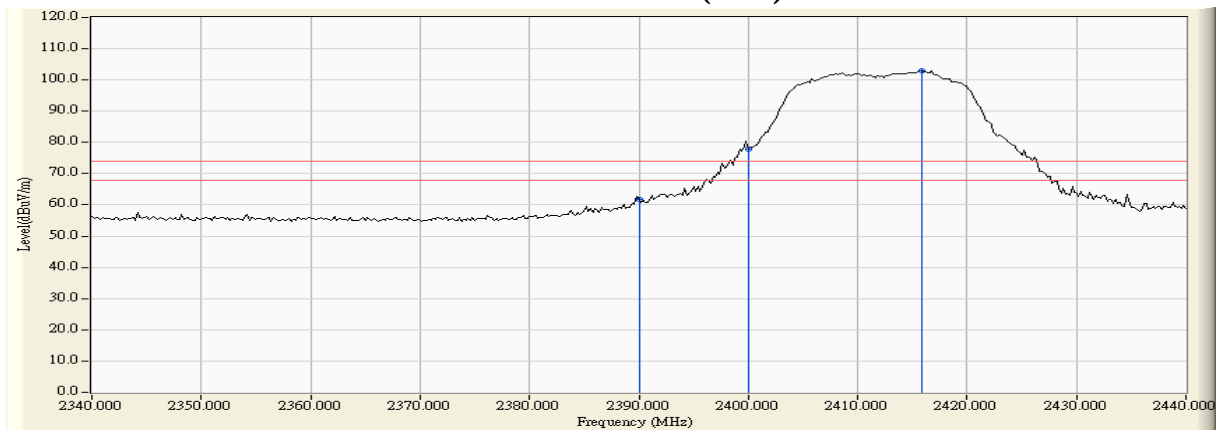
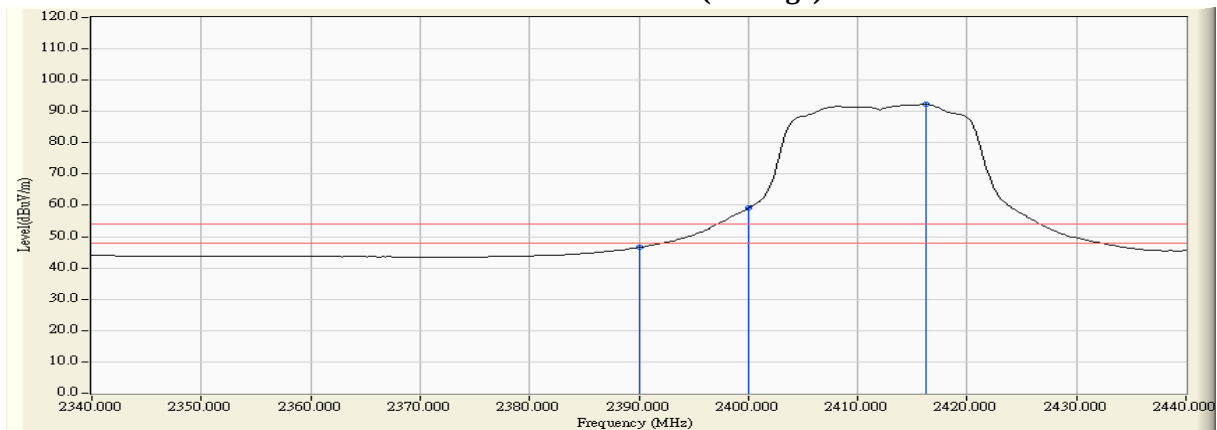


Figure Channel 01: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	30.915	30.212	61.127	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	45.444	76.356	--	--	Pass
01 (Peak)	2415.600	30.973	69.671	100.645	--	--	Pass
01 (Average)	2390.000	30.915	14.403	45.318	74.00	54.00	Pass
01 (Average)	2400.000	30.912	25.183	56.095	--	--	Pass
01 (Average)	2416.000	30.977	58.678	89.654	--	--	Pass

Figure Channel 01: Vertical (Peak)

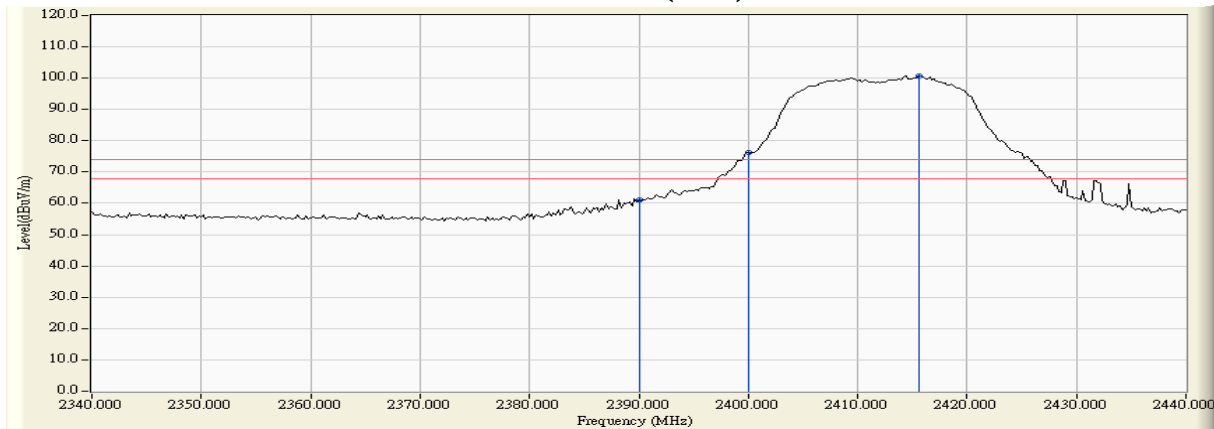
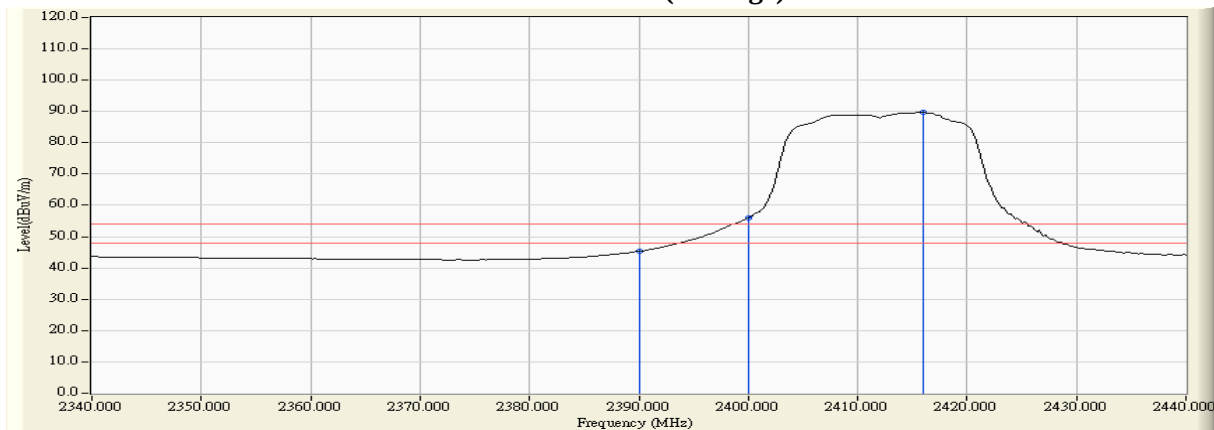


Figure Channel 01: Vertical (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2458.900	31.997	72.893	104.889	--	--	Pass
11 (Peak)	2483.500	32.182	30.268	62.450	74.00	54.00	Pass
11 (Average)	2465.900	32.049	62.199	94.248	--	--	Pass
11 (Average)	2483.500	32.182	16.355	48.537	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

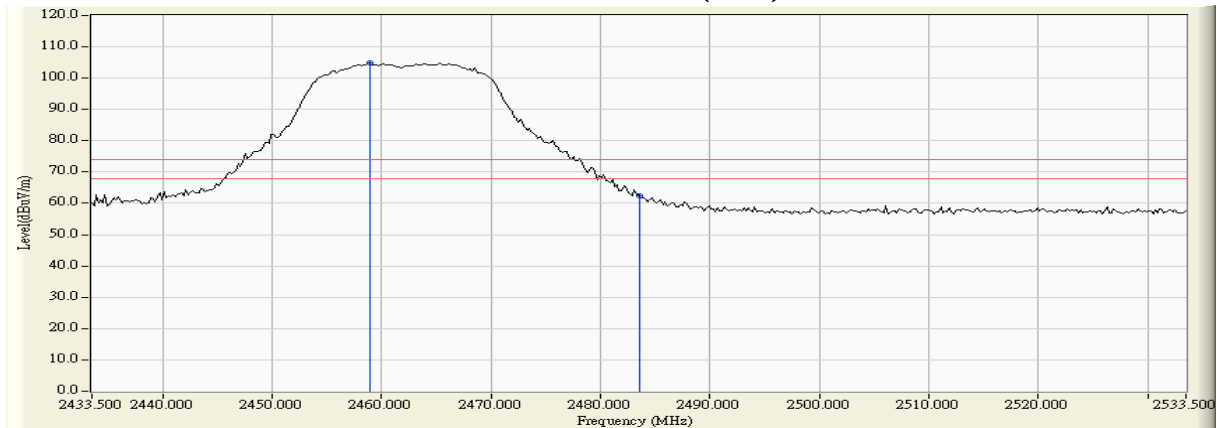
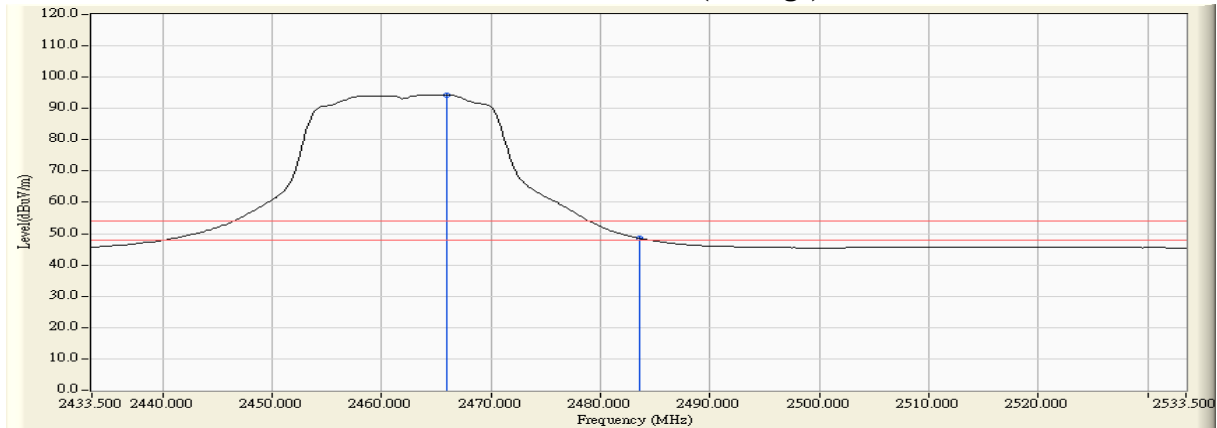


Figure Channel 11: Horizontal (Average)



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2465.700	31.315	69.268	100.583	--	--	Pass
11 (Peak)	2483.500	31.435	27.285	58.720	74.00	54.00	Pass
11 (Average)	2465.700	31.315	58.290	89.605	--	--	Pass
11 (Average)	2483.500	31.435	14.377	45.812	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

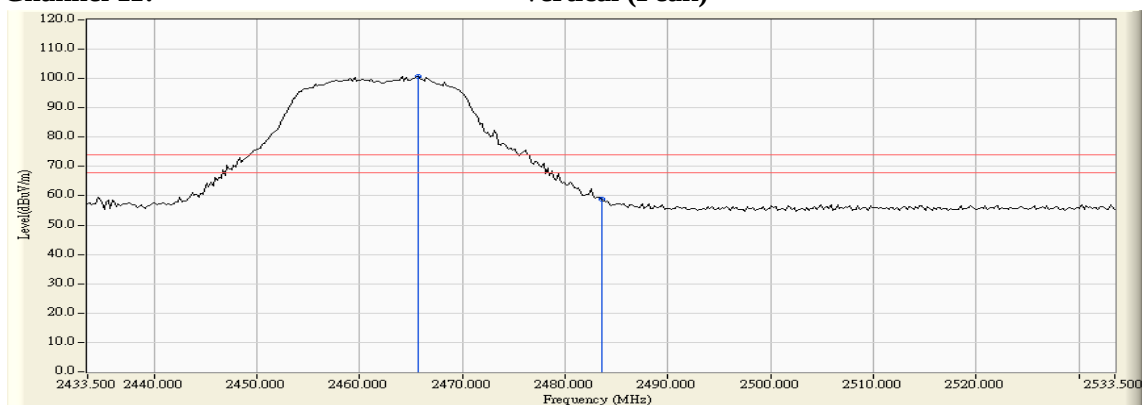
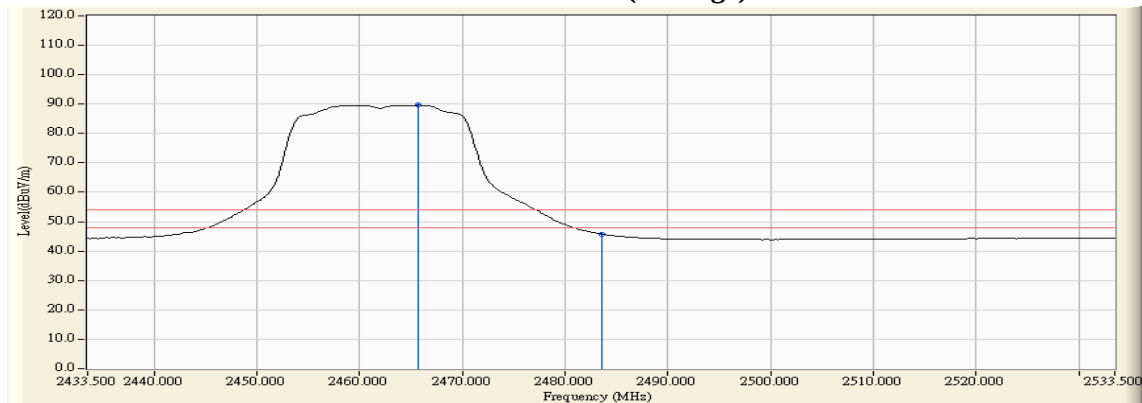


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	35.058	66.567	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	48.176	79.737	--	--	Pass
01 (Peak)	2415.600	31.665	69.966	101.632	--	--	Pass
01 (Average)	2390.000	31.509	20.050	51.559	74.00	54.00	Pass
01 (Average)	2400.000	31.561	30.881	62.442	--	--	Pass
01 (Average)	2415.800	31.667	58.316	89.983	--	--	Pass

Figure Channel 01: Horizontal (Peak)

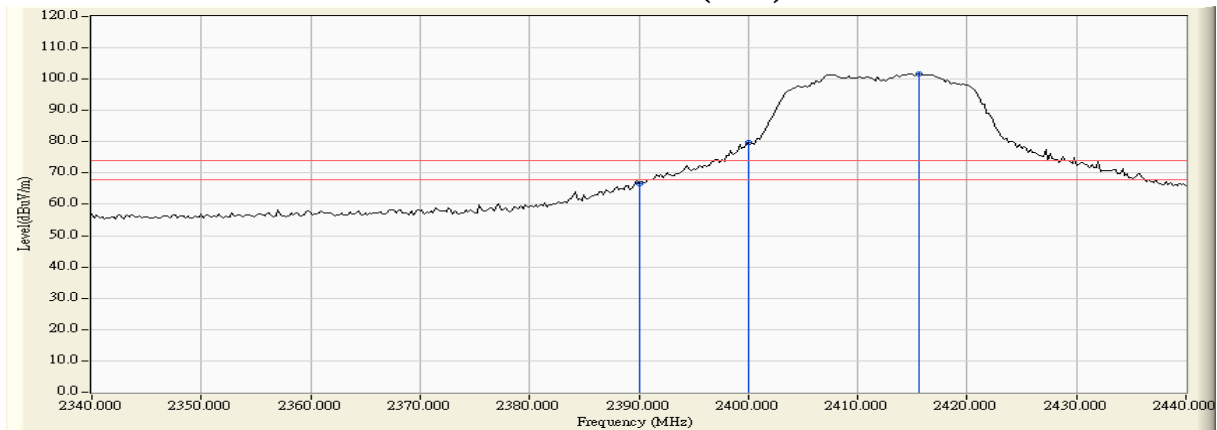
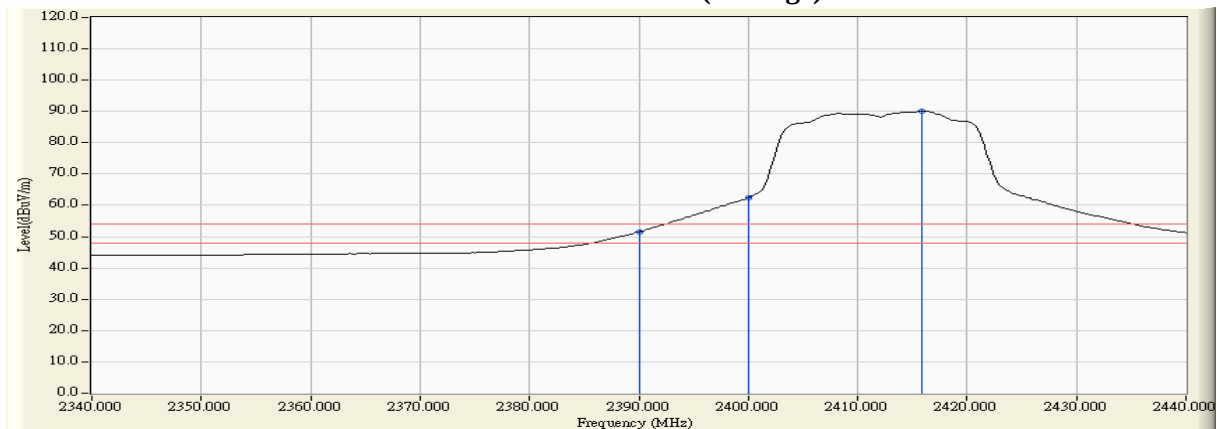


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.000	30.920	33.416	64.336	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	32.673	63.588	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	44.529	75.441	--	--	Pass
01 (Peak)	2416.400	30.979	68.924	99.903	--	--	Pass
01 (Average)	2390.000	30.915	19.764	50.679	74.00	54.00	Pass
01 (Average)	2400.000	30.912	29.498	60.410	--	--	Pass
01 (Average)	2415.800	30.975	56.944	87.919	--	--	Pass

Figure Channel 01: Vertical (Peak)

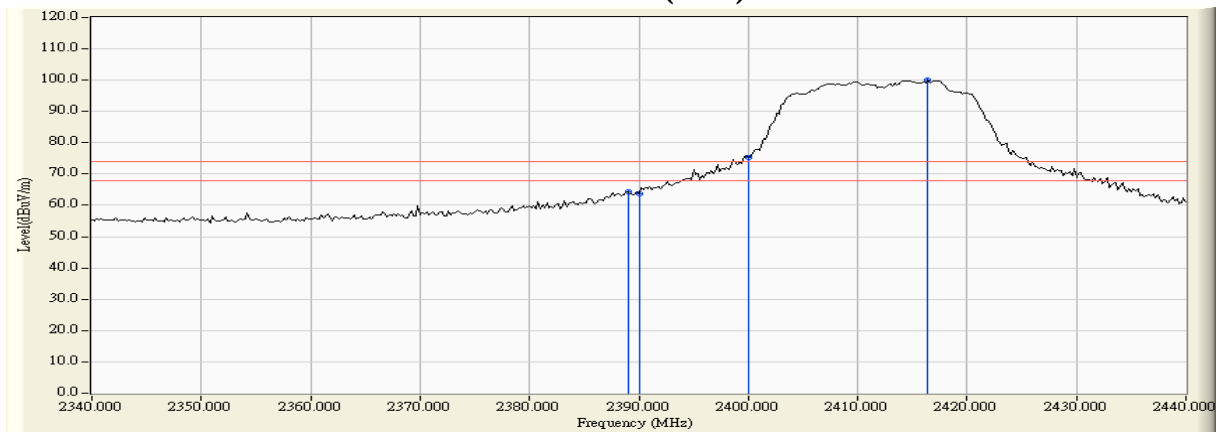
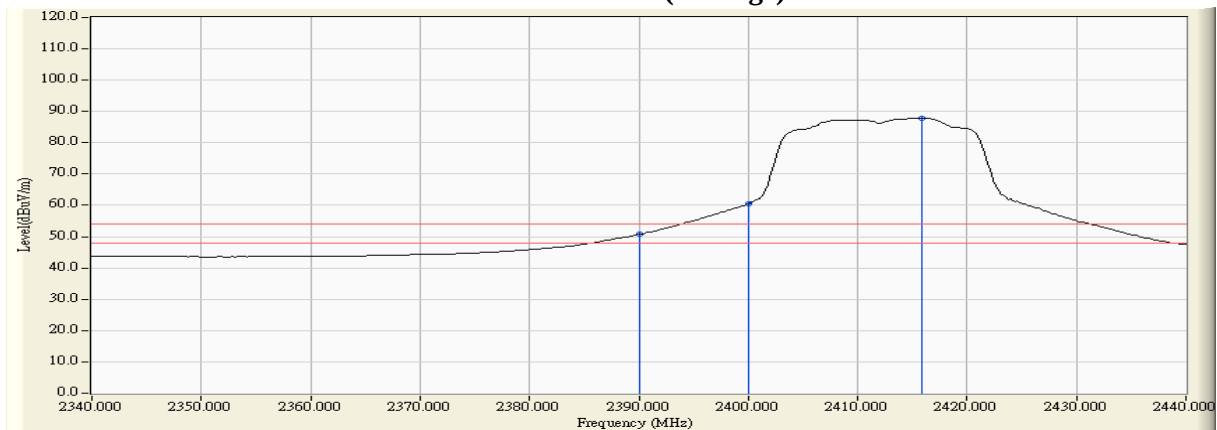


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2459.900	32.003	73.738	105.741	--	--	Pass
11 (Peak)	2483.500	32.182	37.976	70.158	74.00	54.00	Pass
11 (Average)	2458.500	31.992	60.953	92.946	--	--	Pass
11 (Average)	2483.500	32.182	20.411	52.593	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

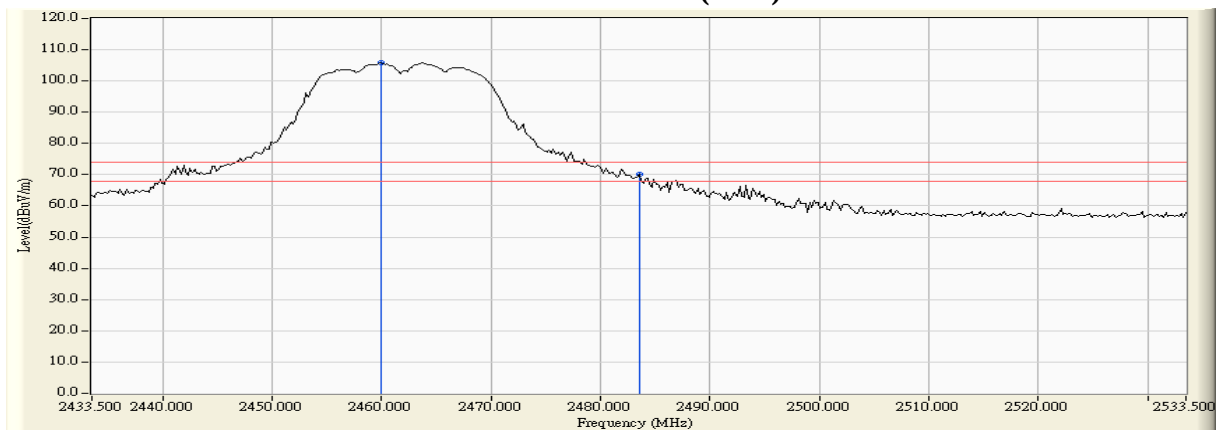
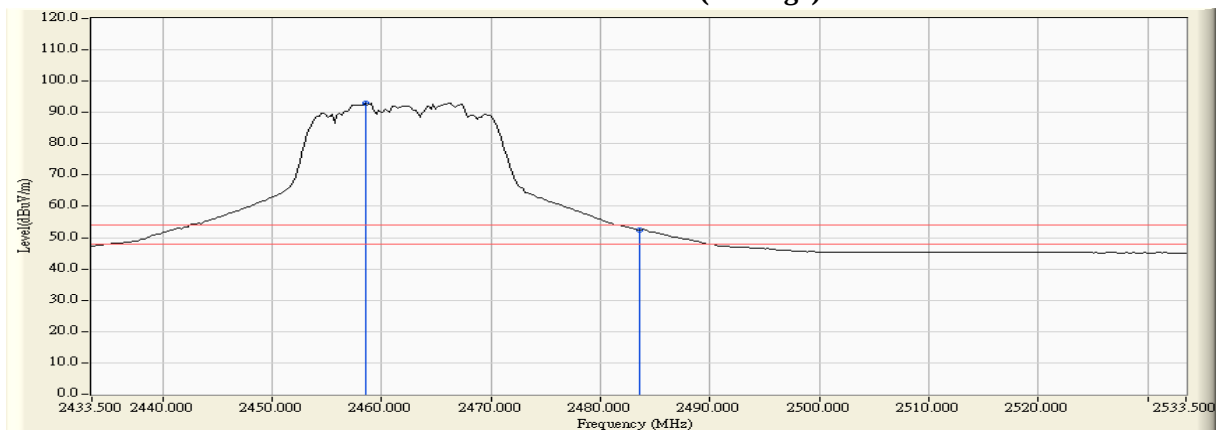


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2459.700	31.275	70.254	101.529	--	--	Pass
11 (Peak)	2483.500	31.435	35.549	66.984	74.00	54.00	Pass
11 (Peak)	2483.900	31.438	37.262	68.700	74.00	54.00	Pass
11 (Average)	2458.100	31.263	57.542	88.806	--	--	Pass
11 (Average)	2483.500	31.435	21.404	52.839	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

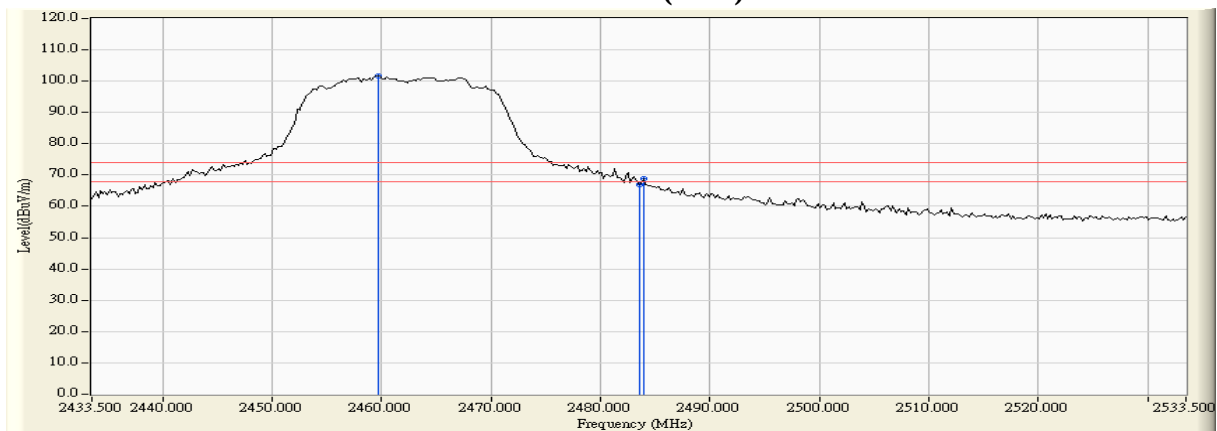
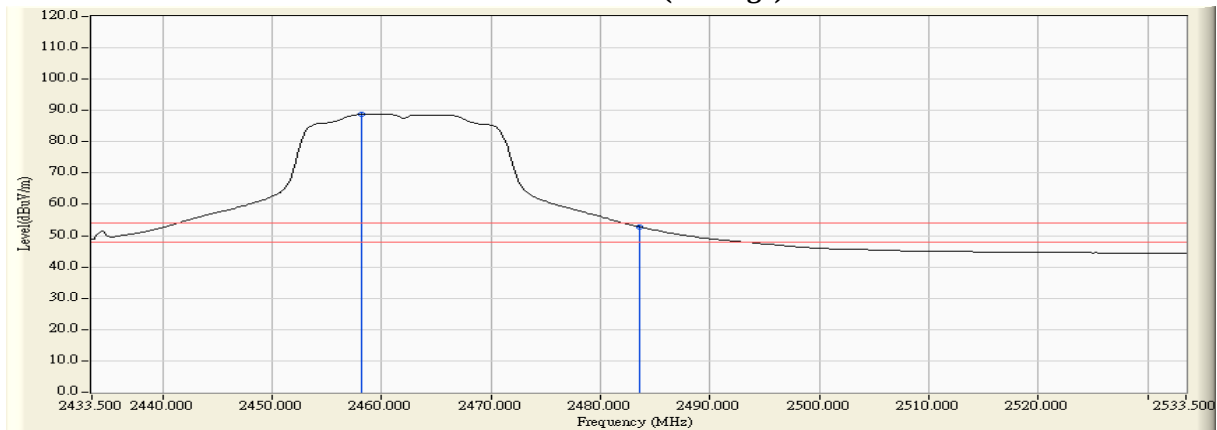


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) -2422MHz

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	29.932	61.441	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	37.137	68.698	--	--	Pass
01 (Peak)	2433.800	31.805	63.613	95.418	--	--	Pass
01 (Average)	2390.000	31.509	16.663	48.172	74.00	54.00	Pass
01 (Average)	2400.000	31.561	22.674	54.235	--	--	Pass
01 (Average)	2433.400	31.802	50.844	82.646	--	--	Pass

Figure Channel 01: Horizontal (Peak)

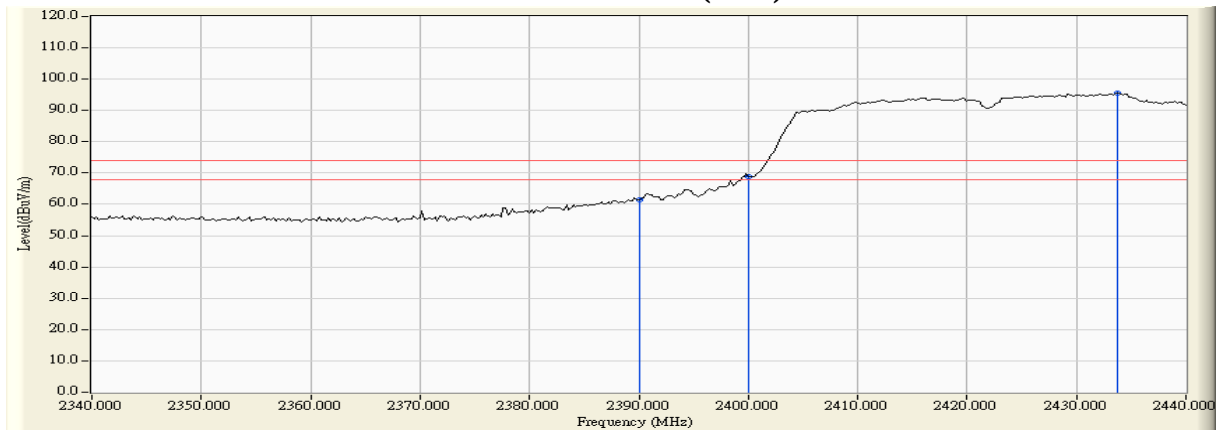
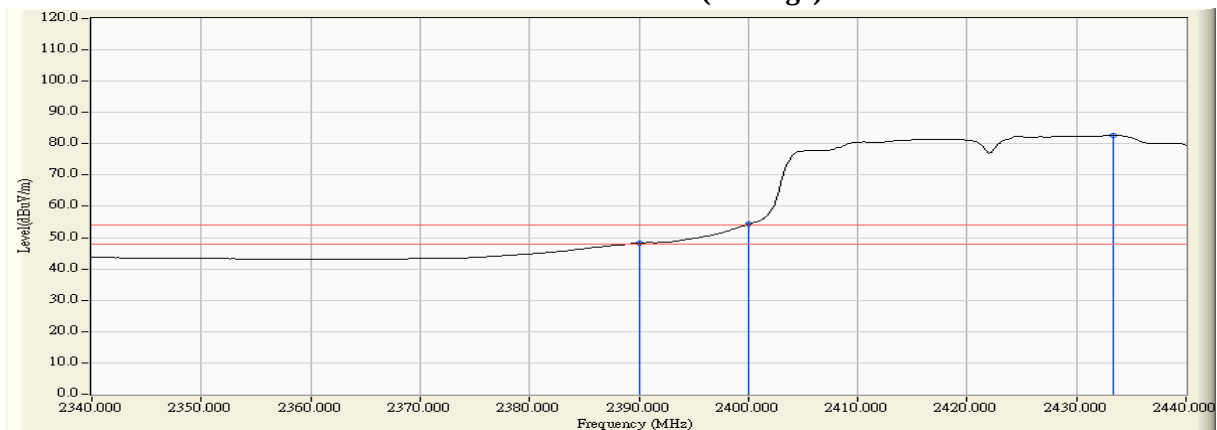


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) -2422MHz

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2387.600	30.926	28.395	59.321	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	27.774	58.689	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	35.709	66.621	--	--	Pass
01 (Peak)	2431.400	31.081	62.550	93.631	--	--	Pass
01 (Average)	2390.000	30.915	15.627	46.542	74.00	54.00	Pass
01 (Average)	2400.000	30.912	20.862	51.774	--	--	Pass
01 (Average)	2433.200	31.093	48.948	80.041	--	--	Pass

Figure Channel 01: Vertical (Peak)

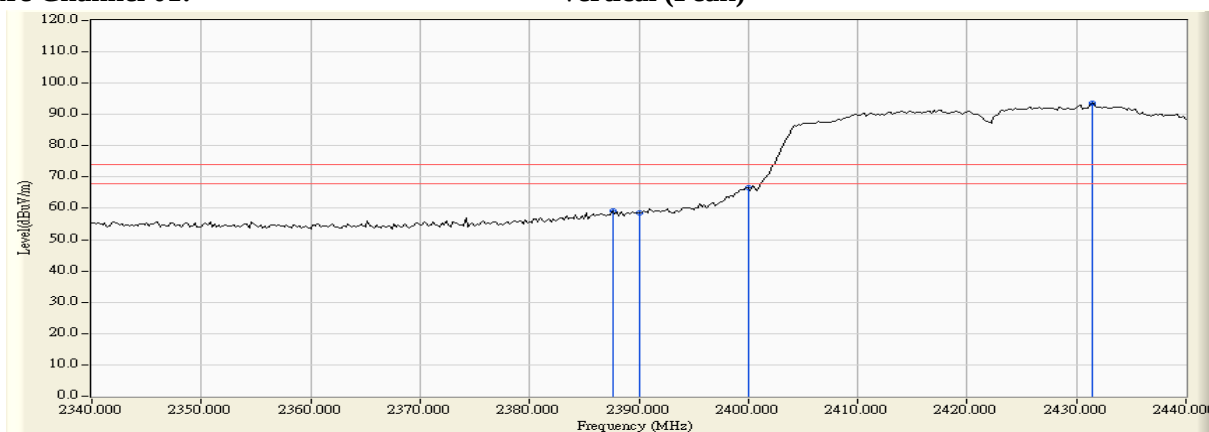
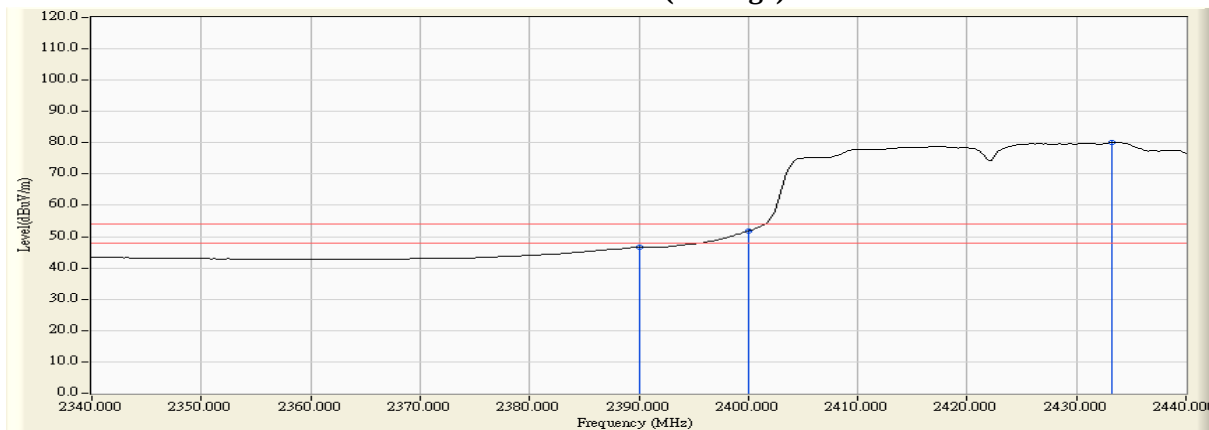


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) -2452MHz

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
07 (Peak)	2460.500	32.008	66.028	98.036	--	--	Pass
07 (Peak)	2483.500	32.182	32.056	64.238	74.00	54.00	Pass
07 (Peak)	2483.900	32.185	33.847	66.032	74.00	54.00	Pass
07 (Average)	2463.300	32.029	52.789	84.818	--	--	Pass
07 (Average)	2483.500	32.182	19.488	51.670	74.00	54.00	Pass

Figure Channel 07: Horizontal (Peak)

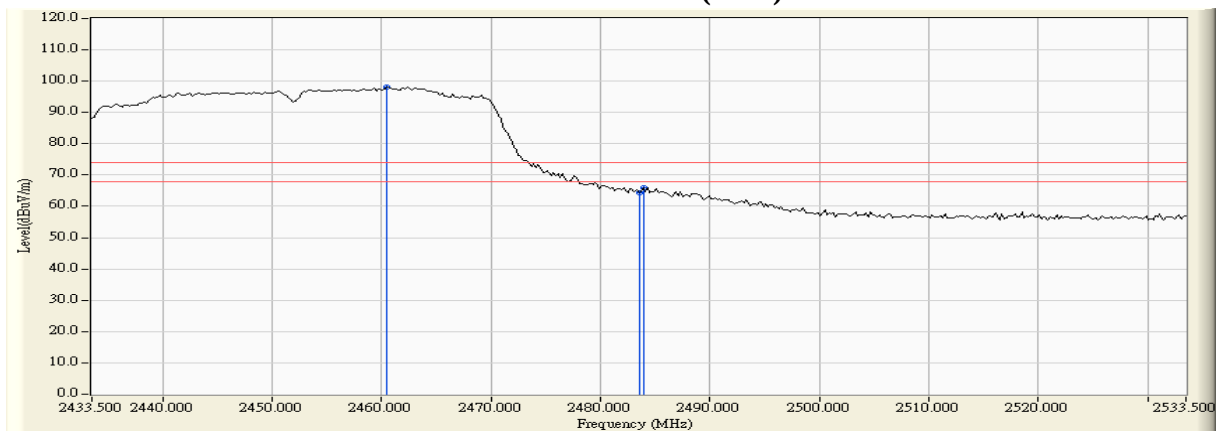
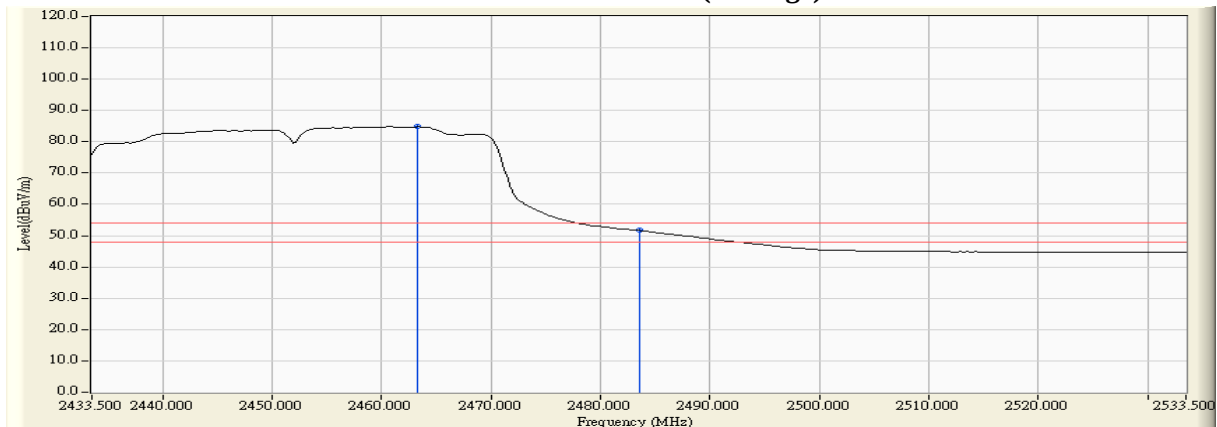


Figure Channel 07: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) -2452MHz

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
07 (Peak)	2453.900	31.235	63.809	95.044	--	--	Pass
07 (Peak)	2483.500	31.435	27.541	58.976	74.00	54.00	Pass
07 (Peak)	2487.700	31.463	28.374	59.838	74.00	54.00	Pass
07 (Average)	2460.700	31.281	49.765	81.046	--	--	Pass
07 (Average)	2483.500	31.435	15.707	47.142	74.00	54.00	Pass

Figure Channel 07: Vertical (Peak)

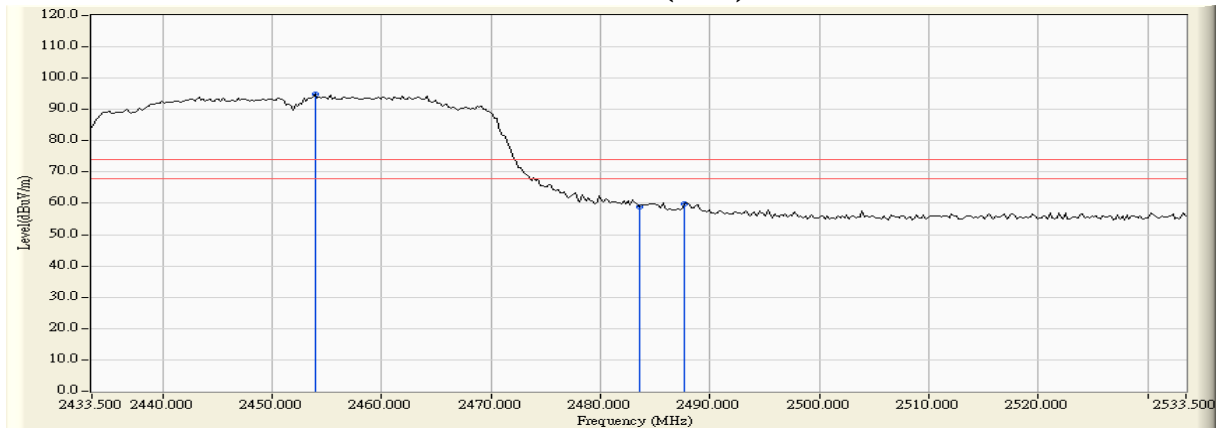
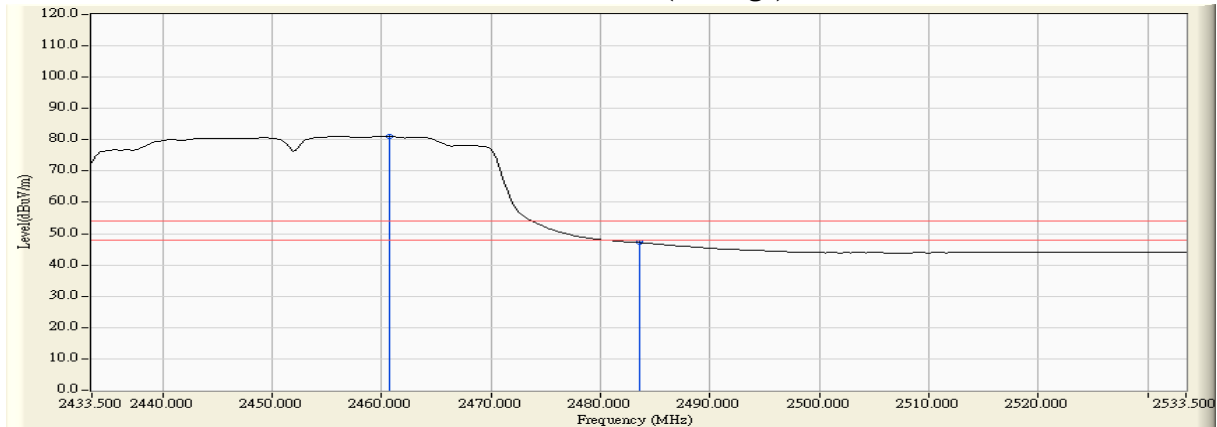


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

5. **During Compliance Testing**

No modification was made during testing.