

# FCC Test Report

## (Class II Permissive Change)

Product Name	Intel® Wireless-AC 9560
Model No.	9560NGW
FCC ID.	2AKHF9560NG

Applicant	TONGFANG HONGKONG (SUZHOU) LIMITED
Address	NO. 83 Wu Lane, Suzhou Industrial Park, Suzhou City, Jiangsu Province, 215000 China

Date of Receipt	Dec. 12, 2018
Issued Date	Jan. 15, 2019
Report No.	18C0176R-RFUSP11V00
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 report of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issued Date: Jan. 15, 2019

Report No.: 18C0176R-RFUSP11V00



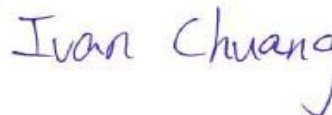
Product Name	Intel® Wireless-AC 9560
Applicant	TONGFANG HONGKONG (SUZHOU) LIMITED
Address	NO. 83 Wu Lane, Suzhou Industrial Park, Suzhou City, Jiangsu Province, 215000 China
Manufacturer	Intel Mobile Communications
Model No.	9560NGW
FCC ID.	2AKHF9560NG
EUT Rated Voltage	AC 100-240V / 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2017 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 558074 D01 15.247 Meas Guidance v05
Test Result	Complied

Documented By :



( Senior Adm. Specialist / Joanne Lin )

Tested By :



( Senior Engineer / Ivan Chuang )

Approved By :



( Director / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Intel® Wireless-AC 9560
Trade Name	Intel
Model No.	9560NGW
FCC ID.	2AKHF9560NG
Frequency Range	2402 – 2480MHz
Channel Number	79
Type of Modulation	FHSS: GFSK(1Mbps) / $\pi$ / 4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	Slot Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Test Platform	Product name: Notebook PC Brand: TONGFANG Model number: GK7CP7S, GK7CP0S, GK7CQ8S
Power Adapter	MFR: Chicony, M/N: A17-230P1A Input: AC 100-240V, 50-60Hz, 3.5A Output: DC 19.5V, 11.8A Cable Out: Non-Shielded, 1.2m with two ferrite cores bonded.

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	WGT	ANTRG7S119-0301(Aux)	Slot Antenna	0.42dBi for 2.4GHz

Note: The antenna of EUT is conforming to FCC 15.203.

## Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 20:	2422 MHz	Channel 40:	2442 MHz	Channel 60:	2462 MHz
Channel 01:	2403 MHz	Channel 21:	2423 MHz	Channel 41:	2443 MHz	Channel 61:	2463 MHz
Channel 02:	2404 MHz	Channel 22:	2424 MHz	Channel 42:	2444 MHz	Channel 62:	2464 MHz
Channel 03:	2405 MHz	Channel 23:	2425 MHz	Channel 43:	2445 MHz	Channel 63:	2465 MHz
Channel 04:	2406 MHz	Channel 24:	2426 MHz	Channel 44:	2446 MHz	Channel 64:	2466 MHz
Channel 05:	2407 MHz	Channel 25:	2427 MHz	Channel 45:	2447 MHz	Channel 65:	2467 MHz
Channel 06:	2408 MHz	Channel 26:	2428 MHz	Channel 46:	2448 MHz	Channel 66:	2468 MHz
Channel 07:	2409 MHz	Channel 27:	2429 MHz	Channel 47:	2449 MHz	Channel 67:	2469 MHz
Channel 08:	2410 MHz	Channel 28:	2430 MHz	Channel 48:	2450 MHz	Channel 68:	2470 MHz
Channel 09:	2411 MHz	Channel 29:	2431 MHz	Channel 49:	2451 MHz	Channel 69:	2471 MHz
Channel 10:	2412 MHz	Channel 30:	2432 MHz	Channel 50:	2452 MHz	Channel 70:	2472 MHz
Channel 11:	2413 MHz	Channel 31:	2433 MHz	Channel 51:	2453 MHz	Channel 71:	2473 MHz
Channel 12:	2414 MHz	Channel 32:	2434 MHz	Channel 52:	2454 MHz	Channel 72:	2474 MHz
Channel 13:	2415 MHz	Channel 33:	2435 MHz	Channel 53:	2455 MHz	Channel 73:	2475 MHz
Channel 14:	2416 MHz	Channel 34:	2436 MHz	Channel 54:	2456 MHz	Channel 74:	2476 MHz
Channel 15:	2417 MHz	Channel 35:	2437 MHz	Channel 55:	2457 MHz	Channel 75:	2477 MHz
Channel 16:	2418 MHz	Channel 36:	2438 MHz	Channel 56:	2458 MHz	Channel 76:	2478 MHz
Channel 17:	2419 MHz	Channel 37:	2439 MHz	Channel 57:	2459 MHz	Channel 77:	2479 MHz
Channel 18:	2420 MHz	Channel 38:	2440 MHz	Channel 58:	2460 MHz	Channel 78:	2480 MHz
Channel 19:	2421 MHz	Channel 39:	2441 MHz	Channel 59:	2461 MHz		

**Note:**

1. The EUT is an Intel® Wireless-AC 9560 with built-in WLAN (802.11a/b/g/n/ac) with Bluetooth (5.0 and V3.0+HS, V2.1+EDR) transceiver, this report for Bluetooth V3.0+HS, V2.1+EDR.
2. These tests were conducted on a sample for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. This is to request a Class II permissive change for FCC ID: 2AKHF9560NG, originally granted on 03/16/2018.

The major change filed under this application is:

Change #1: Additional Chassis is added, Product name: Notebook PC, Brand: TONGFANG,

Model number: GK7CP7S, GK7CP0S, GK7CQ8S.

All models are listed as below:

Brand	Model	GPU (NVIDIA)	Difference
TONGFANG	GK7CP0S (Main test sample)	GTX2060, N18E-G1	All models are electrically identical and different model names are used to distinguish between different GPU specifications.
	GK7CP7S	GTX2070, N18E-G2	
	GK7CQ8S	GTX2080, N18E-G3	

#2: Reduce the Output Power through firmware, and SAR measurement were evaluated.

#3: Addition an antenna, the antenna type is different from the original application and the antenna gain is lower than the original application.

Test Mode	Mode 1: Transmit - 1Mbps Mode 2: Transmit - 2Mbps Mode 3: Transmit - 3Mbps
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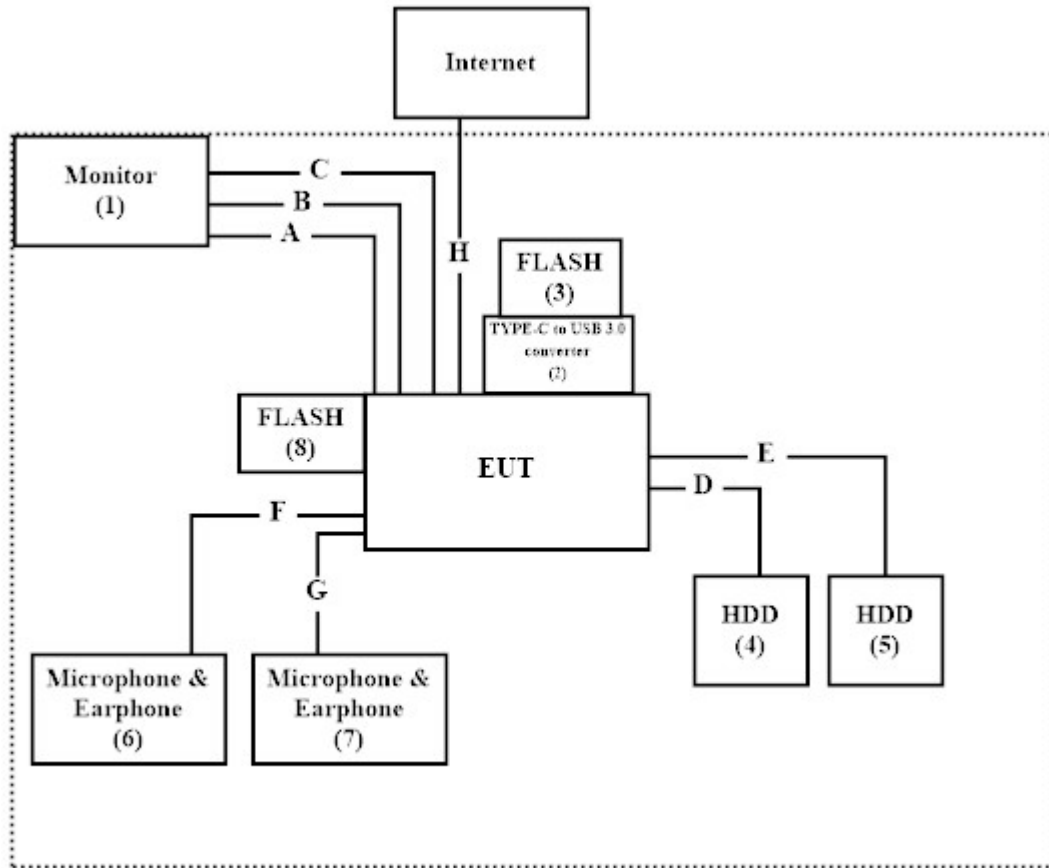
### 1.3. Tested System Details

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	U2415	CN-01RMGX-74261-63H-09UL-A02	Non-Shielded, 1.8m
2	TYPE-C to USB 3.0 converter	Hawk	N/A	N/A	N/A
3	FLASH	Transcend	USB 3.0	N/A	N/A
4	HDD	WD	WDBUZG0010BBK-PESN	WXR1AC5F5J73	N/A
5	HDD	WD	WDBUZG0010BBK-PESN	WX11A166S2Y3	N/A
6	Microphone & Earphone	Verbatim	N/A	N/A	N/A
7	Microphone & Earphone	Verbatim	N/A	N/A	N/A
8	FLASH	Kingston	DT100G3/8GB	N/A	N/A

Signal Cable Type		Signal cable Description
A	HDMI Cable	Shielded, 1.8m
B	DP Cable	Shielded, 1.8m
C	DP Cable	Shielded, 1.8m
D	USB Cable	Shielded, 0.5m
E	USB Cable	Shielded, 0.8m
F	Audio Cable	Non-shielded, 1.2m
G	Audio Cable	Non-shielded, 1.2m
H	LAN Cable	Non-shielded, 3m

#### 1.4. Configuration of Tested System



#### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Execute software “DRTU 10.1748.0-06430” on the EUT.
- (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 DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

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Site Name: DEKRA Testing and Certification Co., Ltd.  
Site Address: No.159, Sec. 2, Wenhua 1st Rd., Linkou Dist.,  
New Taipei City 24457, Taiwan.  
TEL: 886-2-2602-7968 / FAX : 866-2-2602-3286  
E-Mail : [info.tw@dekra.com](mailto:info.tw@dekra.com)

FCC Accreditation Number: TW0023

## 1.7. List of Test Equipment

### For Conducted measurements /ASR2

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSV30	103464	2018.01.23	2019.01.22
X	Power Meter	Anritsu	ML2496A	1548003	2018.12.19	2019.12.18
X	Power Sensor	Anritsu	MA2411B	1531024	2018.12.19	2019.12.18
X	Power Sensor	Anritsu	MA2411B	1531025	2018.12.19	2019.12.18
	Bluetooth Tester	R&S	CBT	101238	2018.01.18	2019.01.17

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version : DEKRA Conduction Test System V9.0.1

### For Radiated measurements /ACB1

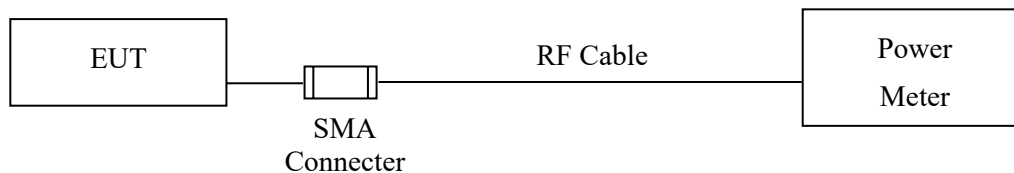
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Loop Antenna	AMETEK	HLA6121	49611	2018.01.26	2019.01.25
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-674	2018.04.02	2019.04.01
X	Horn Antenna	ETS-Lindgren	3117	00203800	2018.12.11	2019.12.10
X	Horn Antenna	Com-Power	AH-840	101087	2018.06.01	2019.05.31
X	Pre-Amplifier	EMCI	EMC001330	980316	2018.06.01	2019.05.31
X	Pre-Amplifier	EMCI	EMC051835SE	980311	2018.06.04	2019.06.03
X	Pre-Amplifier	EMCI	EMC05820SE	980310	2018.06.04	2019.06.03
X	Pre-Amplifier	EMCI	EMC184045SE	980314	2018.05.16	2019.05.15
X	Filter	MICRO TRONICS	BRM50702	G251	2018.09.04	2019.09.03
	Filter	MICRO TRONICS	BRM50716	G188	2018.09.04	2019.09.03
X	EMI Test Receiver	R&S	ESR7	101602	2018.12.17	2019.12.16
X	Spectrum Analyzer	R&S	FSV40	101148	2018.02.08	2019.02.07
X	Coaxial Cable	SUHNER	SUCOFLEX 106	RF002	2018.05.25	2019.05.24
X	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2018.05.16	2019.05.15

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version : QuieTek EMI 2.0 V2.1.113

## 2. Peak Power Output

### 2.1. Test Setup



### 2.2. Limit

The maximum peak power shall be less 1Watt.

### 2.3. Test Procedure

Tested according to FHSS test procedure of KDB 558074 section 9 (b for compliance to FCC 47CFR 15.247 requirements.

### 2.4. Uncertainty

$\pm 0.86$  dB

## 2.5. Test Result of Peak Power Output

Product : Intel® Wireless-AC 9560  
Test Item : Peak Power Output  
Test Mode : Mode 1: Transmit - 1Mbps  
Test Date : 2018/12/28

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402.00	9.00	1 Watt= 30 dBm	Pass
Channel 39	2441.00	9.60	1 Watt= 30 dBm	Pass
Channel 78	2480.00	9.51	1 Watt= 30 dBm	Pass

Product : Intel® Wireless-AC 9560  
Test Item : Peak Power Output  
Test Mode : Mode 2: Transmit - 2Mbps  
Test Date : 2018/12/28

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402.00	5.82	1 Watt= 30 dBm	Pass
Channel 39	2441.00	5.53	1 Watt= 30 dBm	Pass
Channel 78	2480.00	5.82	1 Watt= 30 dBm	Pass

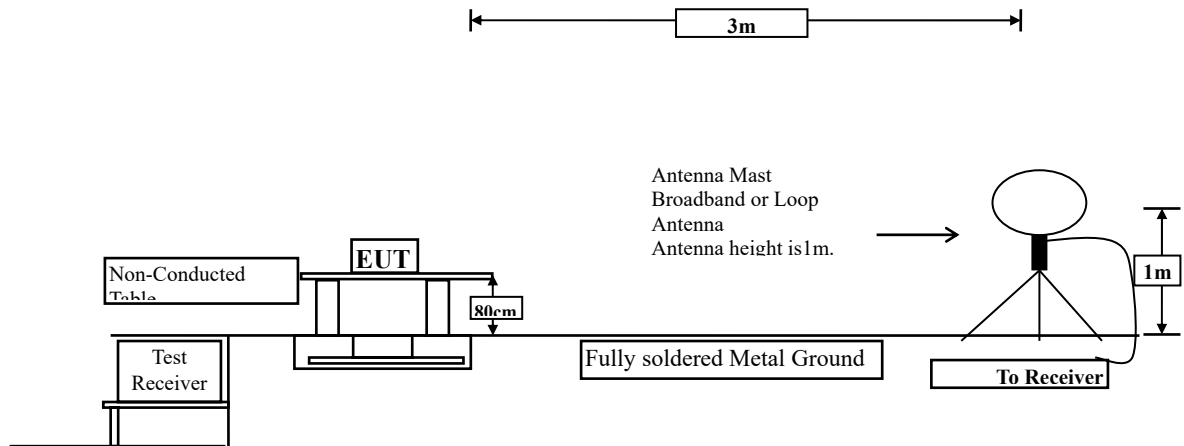
Product : Intel® Wireless-AC 9560  
Test Item : Peak Power Output  
Test Mode : Mode 3: Transmit - 3Mbps  
Test Date : 2018/12/28

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402.00	5.78	1 Watt= 30 dBm	Pass
Channel 39	2441.00	5.87	1 Watt= 30 dBm	Pass
Channel 78	2480.00	5.88	1 Watt= 30 dBm	Pass

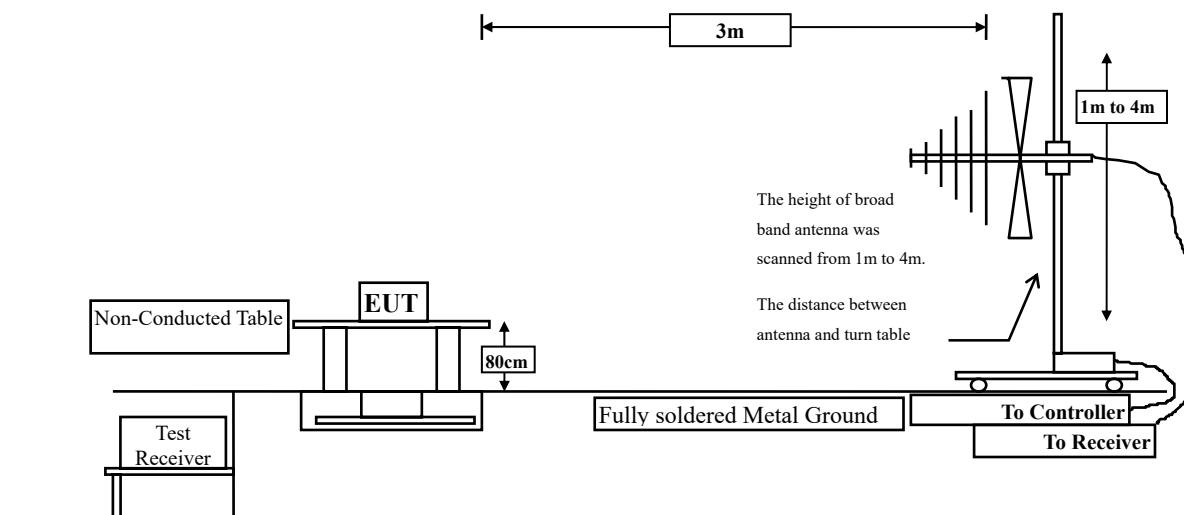
### 3. Radiated Emission

#### 3.1. Test Setup

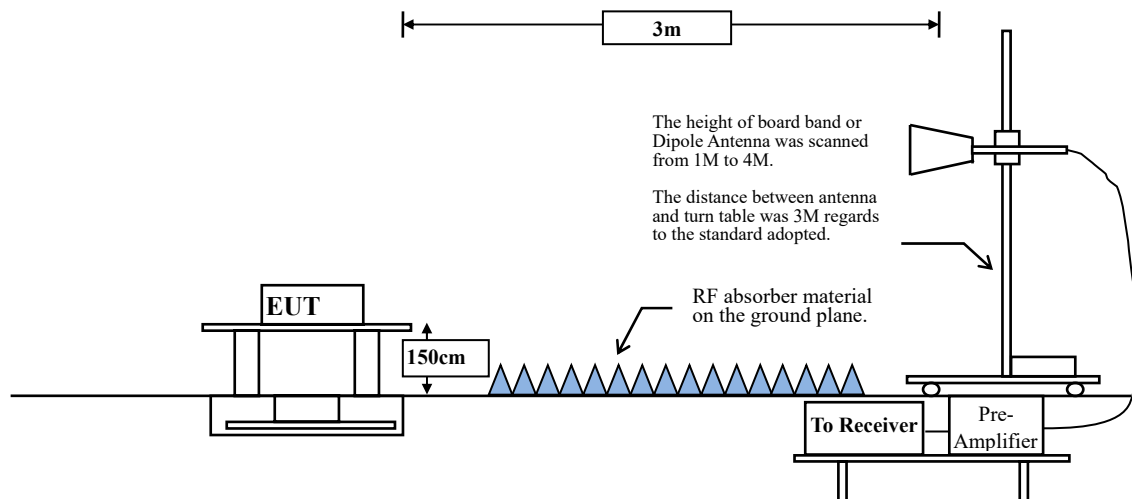
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



### 3.2. Limits

#### ➤ General Radiated Emission 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 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:
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

### 3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 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: 2013 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 measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

### 3.4. Uncertainty

Horizontal polarization :

30-300MHz:  $\pm 4.08\text{dB}$  ; 300M-1GHz:  $\pm 3.86\text{dB}$  ; 1-18GHz:  $\pm 3.77\text{dB}$  ; 18-40GHz:  $\pm 3.98\text{dB}$

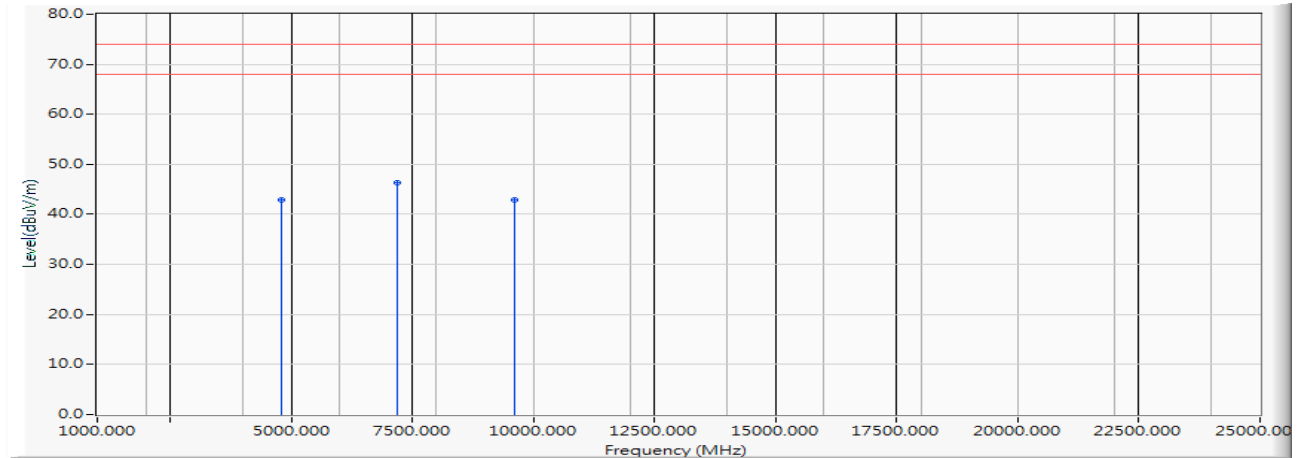
Vertical polarization :

30-300MHz:  $\pm 4.81\text{dB}$  ; 300M-1GHz:  $\pm 3.87\text{dB}$  ; 1-18GHz :  $\pm 3.83\text{dB}$  ; 18-40GHz:  $\pm 3.98\text{dB}$

### 3.5. Test Result of Radiated Emission

Product : Intel® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2402MHz)  
 Test Date : 2018/12/25

#### Horizontal

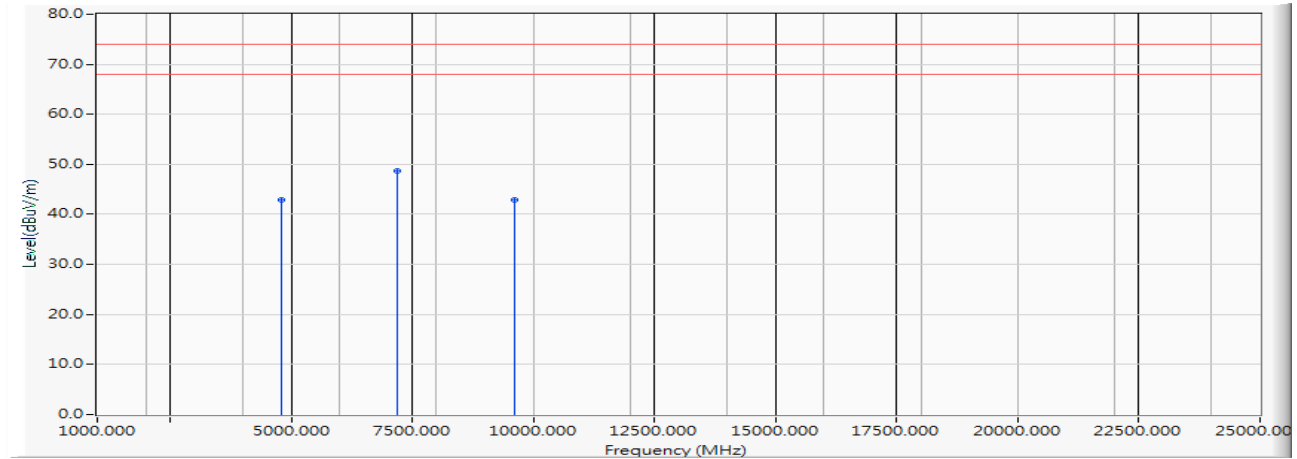


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	48.870	42.789	-31.211	74.000	PEAK
2	*	7206.000	-3.033	49.350	46.317	-27.683	74.000	PEAK
3		9608.000	-0.774	43.630	42.857	-31.143	74.000	PEAK

#### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2402MHz)  
 Test Date : 2018/12/25

**Vertical**

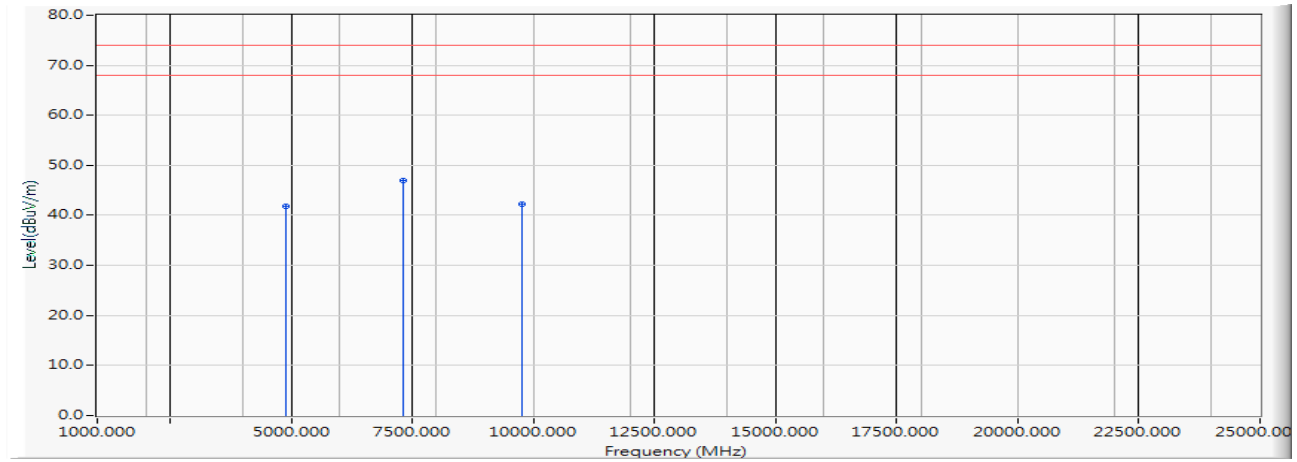
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	48.990	42.909	-31.091	74.000	PEAK
2	*	7206.000	-3.033	51.710	48.677	-25.323	74.000	PEAK
3		9608.000	-0.774	43.660	42.887	-31.113	74.000	PEAK

**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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2441MHz)  
 Test Date : 2018/12/25

### Horizontal



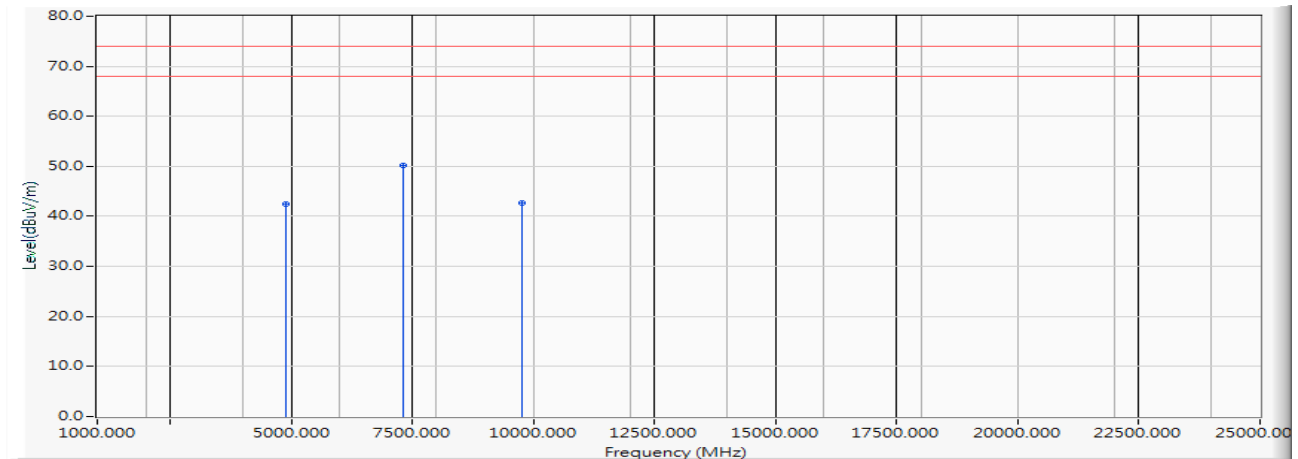
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	47.890	41.848	-32.152	74.000	PEAK
2	*	7323.000	-2.954	49.870	46.916	-27.084	74.000	PEAK
3		9764.000	-0.487	42.640	42.153	-31.847	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2441MHz)  
 Test Date : 2018/12/25

### Vertical



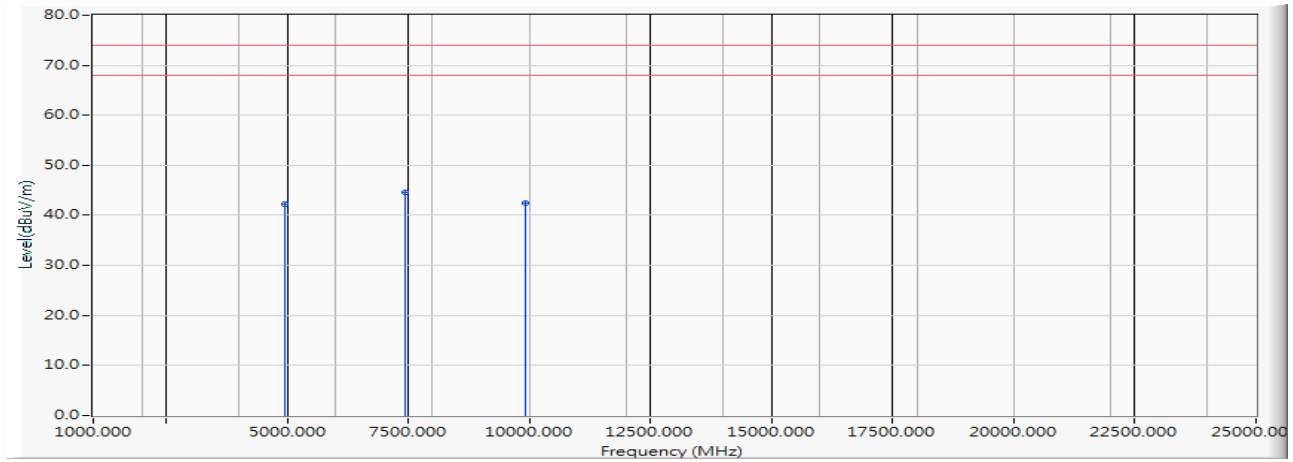
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	48.570	42.528	-31.472	74.000	PEAK
2	*	7323.000	-2.954	53.220	50.266	-23.734	74.000	PEAK
3		9764.000	-0.487	43.130	42.643	-31.357	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2480MHz)  
 Test Date : 2018/12/25

### Horizontal



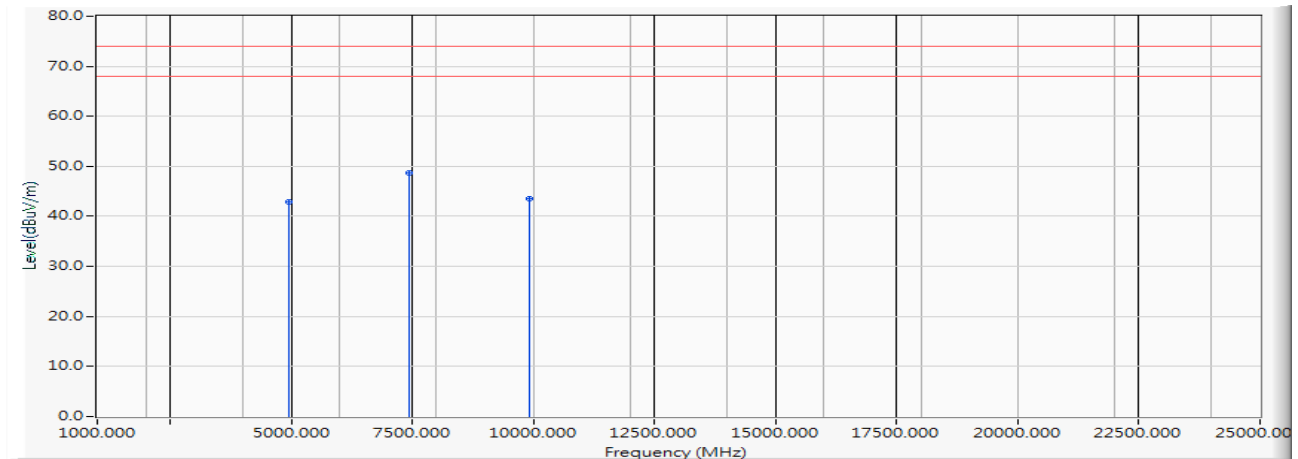
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.260	42.219	-31.781	74.000	PEAK
2	*	7440.000	-2.805	47.390	44.585	-29.415	74.000	PEAK
3		9920.000	-0.260	42.620	42.360	-31.640	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2480MHz)  
 Test Date : 2018/12/25

### Vertical



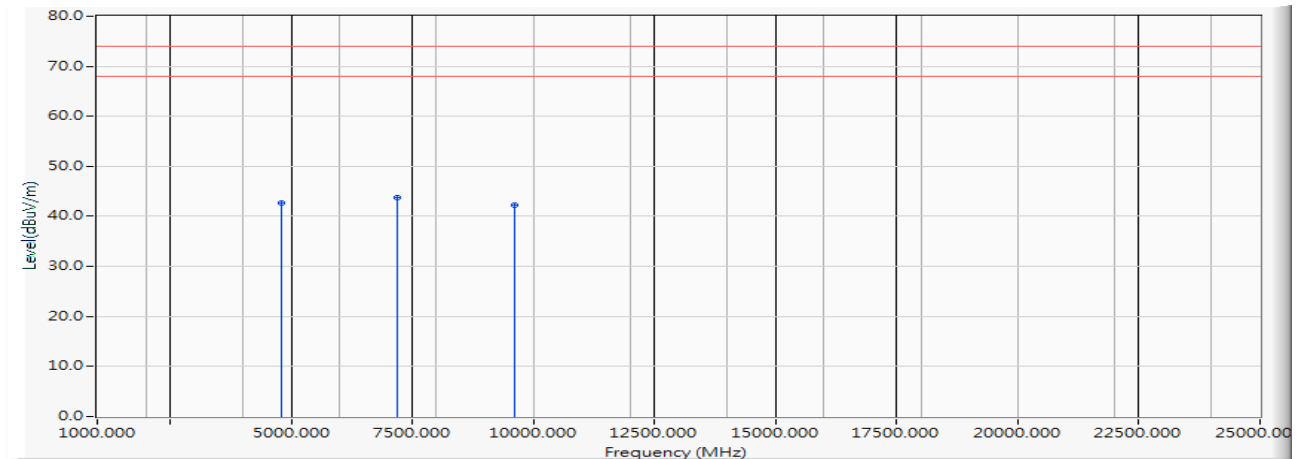
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.950	42.909	-31.091	74.000	PEAK
2	*	7440.000	-2.805	51.510	48.705	-25.295	74.000	PEAK
3		9920.000	-0.260	43.870	43.610	-30.390	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2402MHz)  
 Test Date : 2018/12/25

### Horizontal



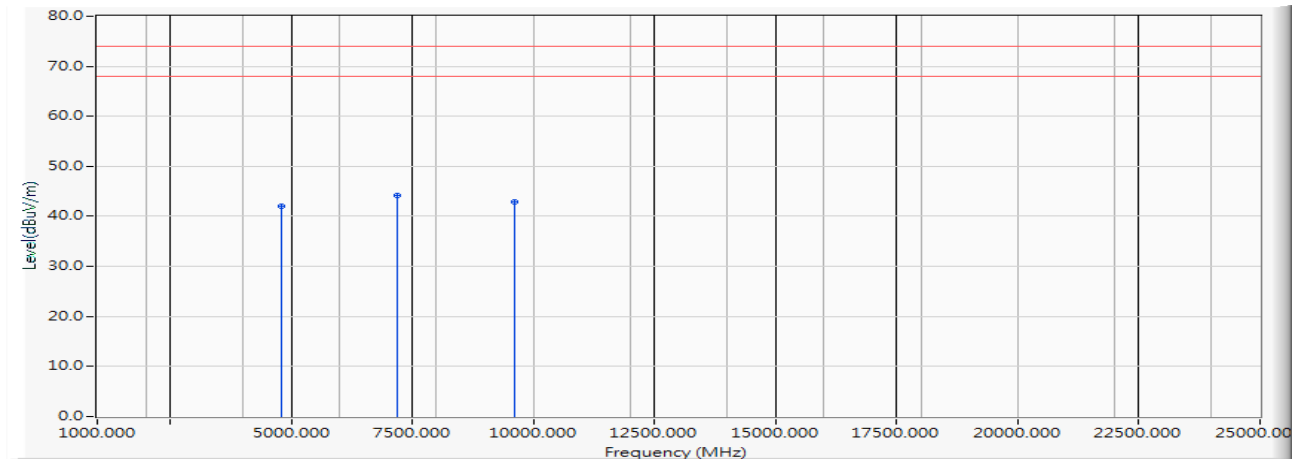
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	48.820	42.739	-31.261	74.000	PEAK
2	*	7206.000	-3.033	46.760	43.727	-30.273	74.000	PEAK
3		9608.000	-0.774	43.130	42.357	-31.643	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2402MHz)  
 Test Date : 2018/12/25

### Vertical



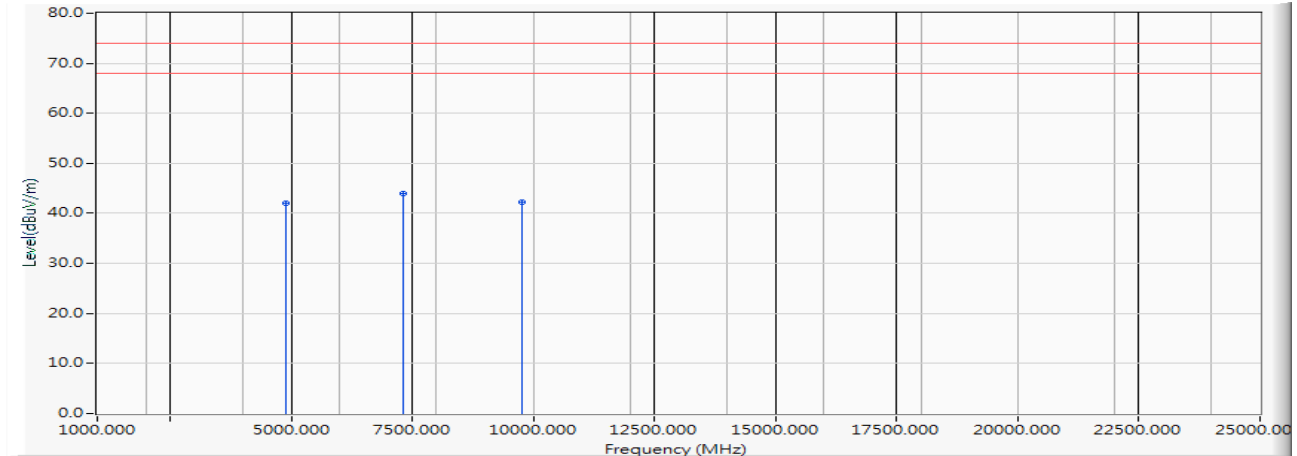
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	48.020	41.939	-32.061	74.000	PEAK
2	*	7206.000	-3.033	47.320	44.287	-29.713	74.000	PEAK
3		9608.000	-0.774	43.660	42.887	-31.113	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2441MHz)  
 Test Date : 2018/12/25

### Horizontal



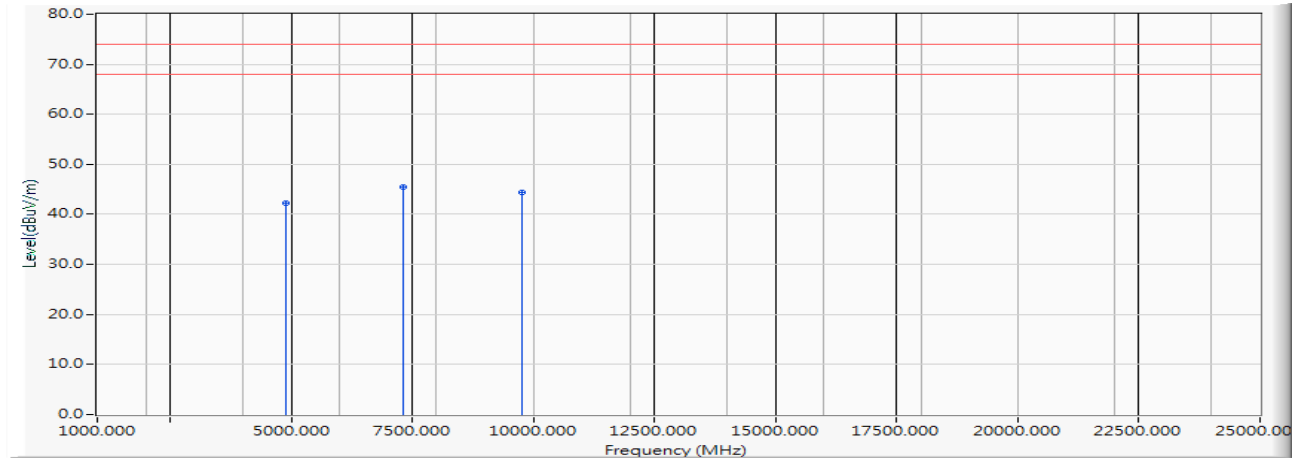
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	48.110	42.068	-31.932	74.000	PEAK
2	*	7323.000	-2.954	46.950	43.996	-30.004	74.000	PEAK
3		9764.000	-0.487	42.690	42.203	-31.797	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2441MHz)  
 Test Date : 2018/12/25

### Vertical



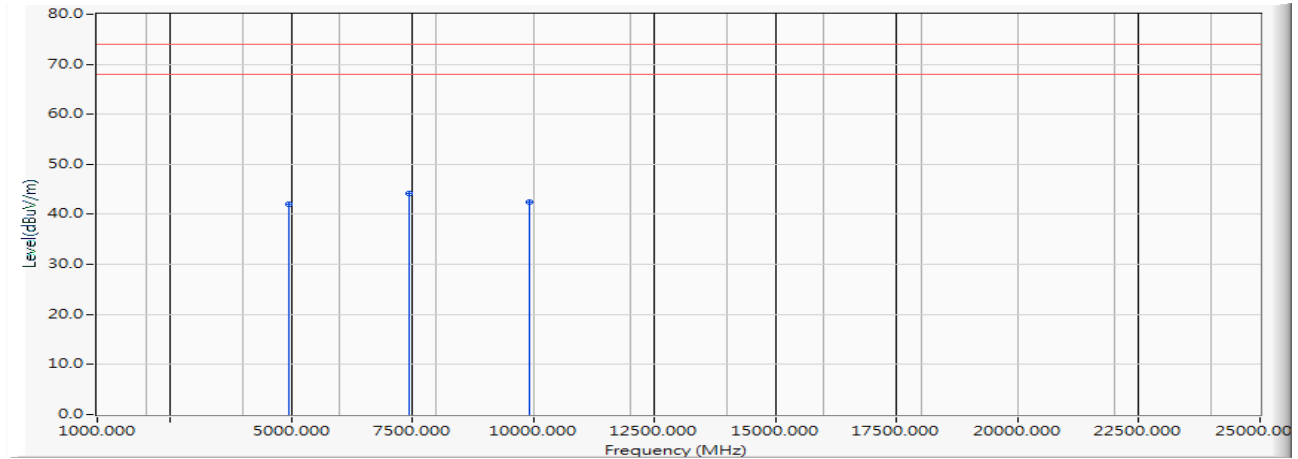
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	48.340	42.298	-31.702	74.000	PEAK
2	*	7323.000	-2.954	48.530	45.576	-28.424	74.000	PEAK
3		9764.000	-0.487	44.850	44.363	-29.637	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2480MHz)  
 Test Date : 2018/12/25

### Horizontal



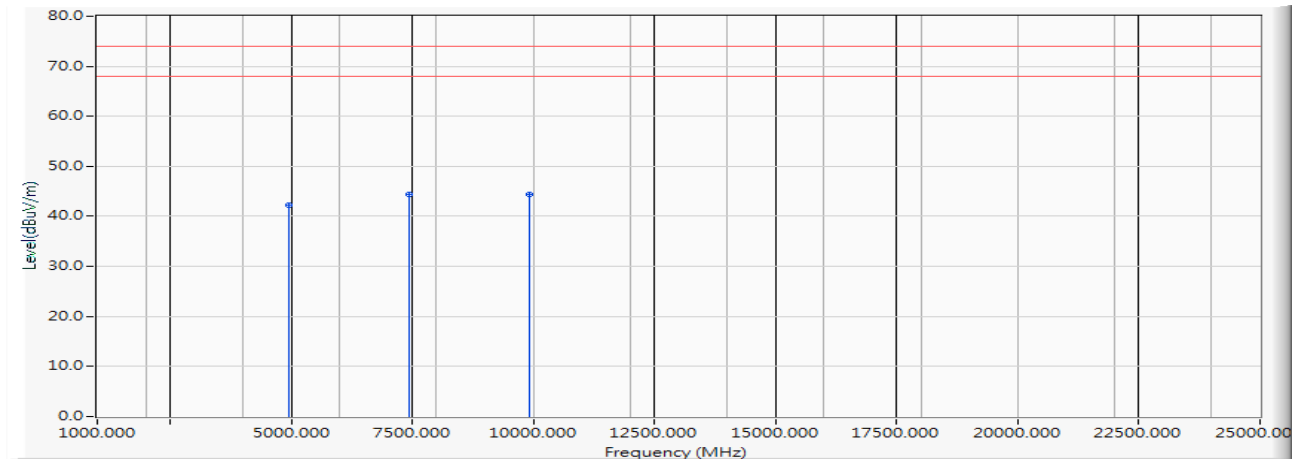
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.050	42.009	-31.991	74.000	PEAK
2	*	7440.000	-2.805	46.990	44.185	-29.815	74.000	PEAK
3		9920.000	-0.260	42.810	42.550	-31.450	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2480MHz)  
 Test Date : 2018/12/25

### Vertical



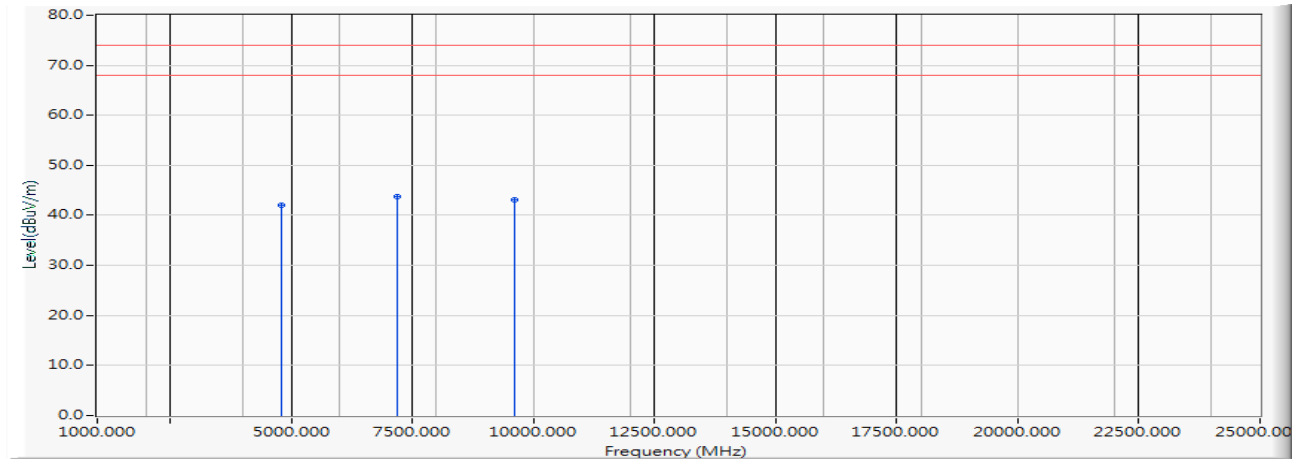
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.330	42.289	-31.711	74.000	PEAK
2	*	7440.000	-2.805	47.280	44.475	-29.525	74.000	PEAK
3		9920.000	-0.260	44.630	44.370	-29.630	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2402MHz)  
 Test Date : 2018/12/25

### Horizontal



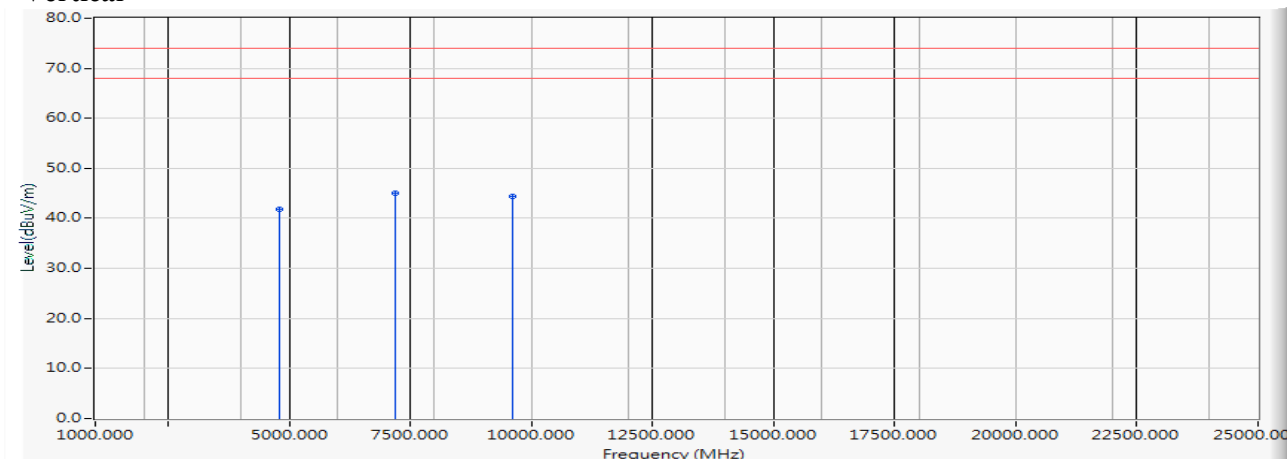
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	48.030	41.949	-32.051	74.000	PEAK
2	*	7206.000	-3.033	46.850	43.817	-30.183	74.000	PEAK
3		9608.000	-0.774	43.850	43.077	-30.923	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2402MHz)  
 Test Date : 2018/12/25

### Vertical



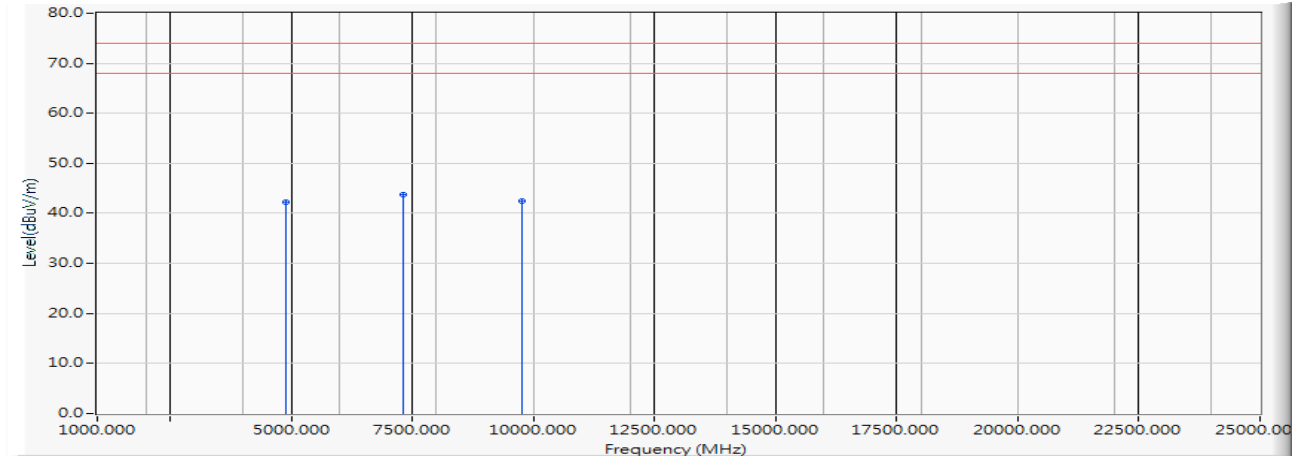
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4804.000	-6.081	47.980	41.899	-32.101	74.000	PEAK
2	*	7206.000	-3.033	47.980	44.947	-29.053	74.000	PEAK
3		9608.000	-0.774	45.220	44.447	-29.553	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2441MHz)  
 Test Date : 2018/12/25

### Horizontal



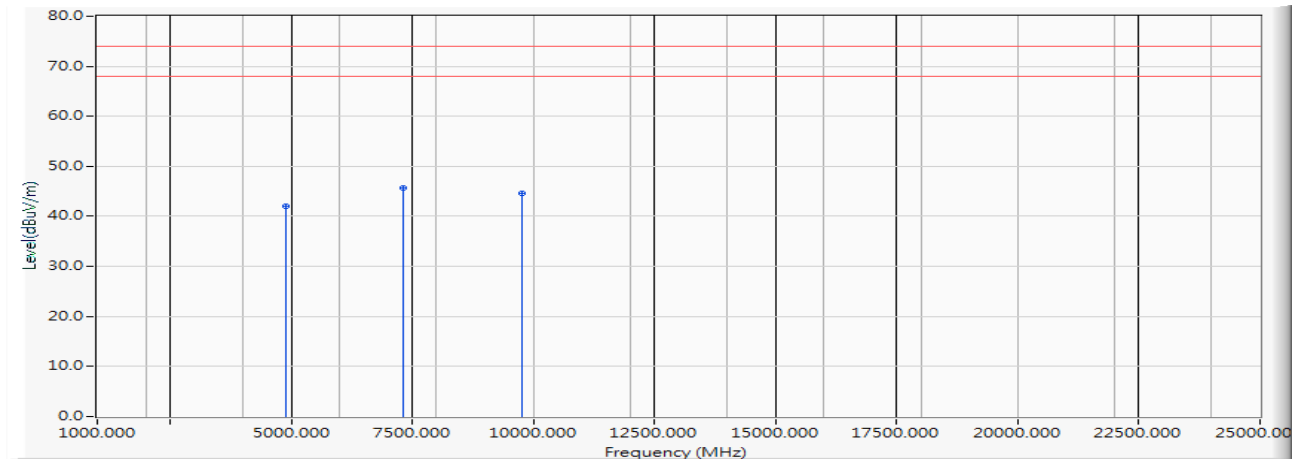
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	48.320	42.278	-31.722	74.000	PEAK
2	*	7323.000	-2.954	46.620	43.666	-30.334	74.000	PEAK
3		9764.000	-0.487	42.870	42.383	-31.617	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2441MHz)  
 Test Date : 2018/12/25

### Vertical

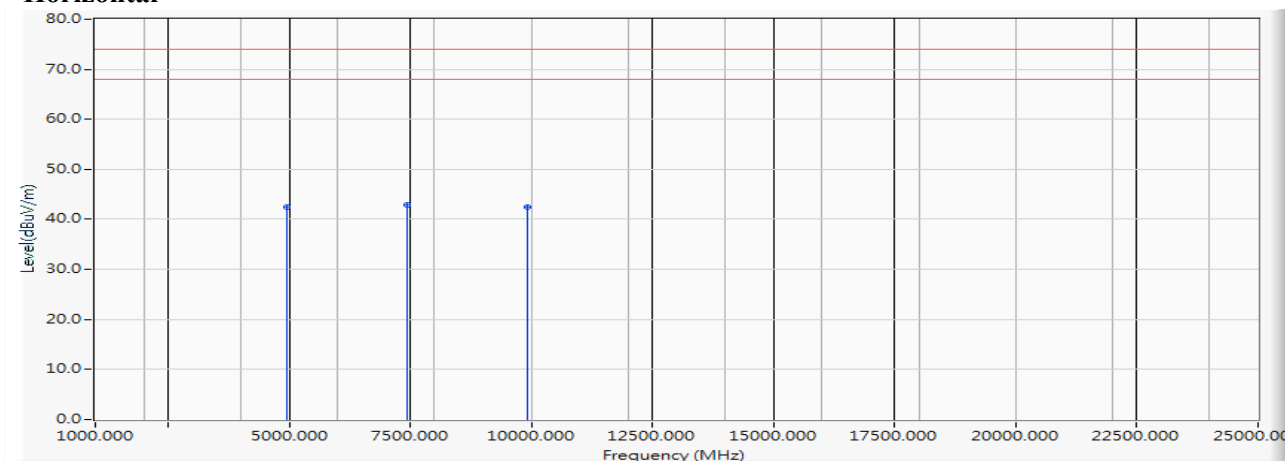


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4882.000	-6.042	48.070	42.028	-31.972	74.000	PEAK
2	*	7323.000	-2.954	48.740	45.786	-28.214	74.000	PEAK
3		9764.000	-0.487	45.020	44.533	-29.467	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2480MHz)  
 Test Date : 2018/12/25

**Horizontal**

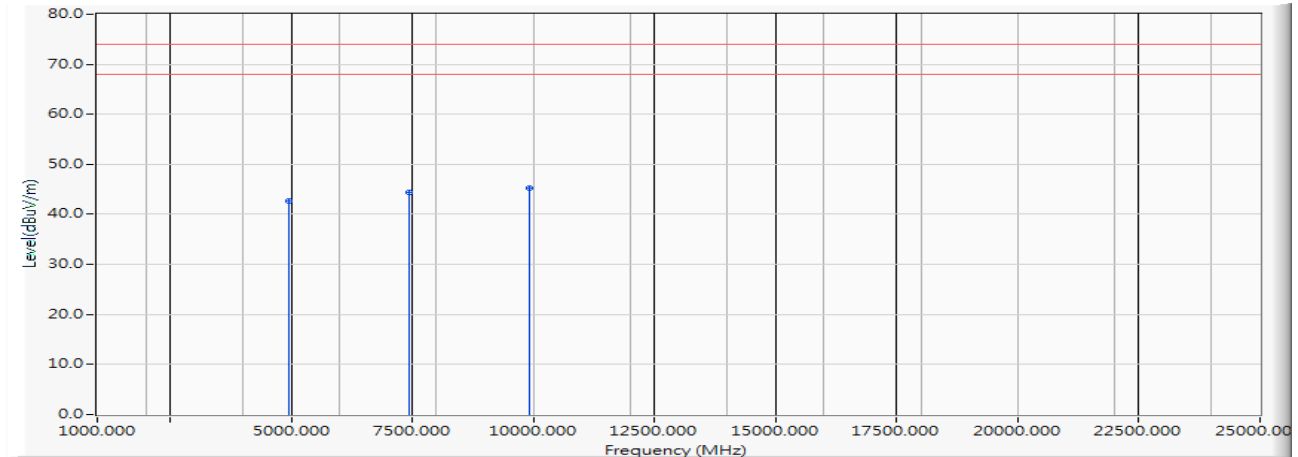
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.550	42.509	-31.491	74.000	PEAK
2	*	7440.000	-2.805	45.740	42.935	-31.065	74.000	PEAK
3		9920.000	-0.260	42.800	42.540	-31.460	74.000	PEAK

**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® Wireless-AC 9560  
 Test Item : Harmonic Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2480MHz)  
 Test Date : 2018/12/25

### Vertical



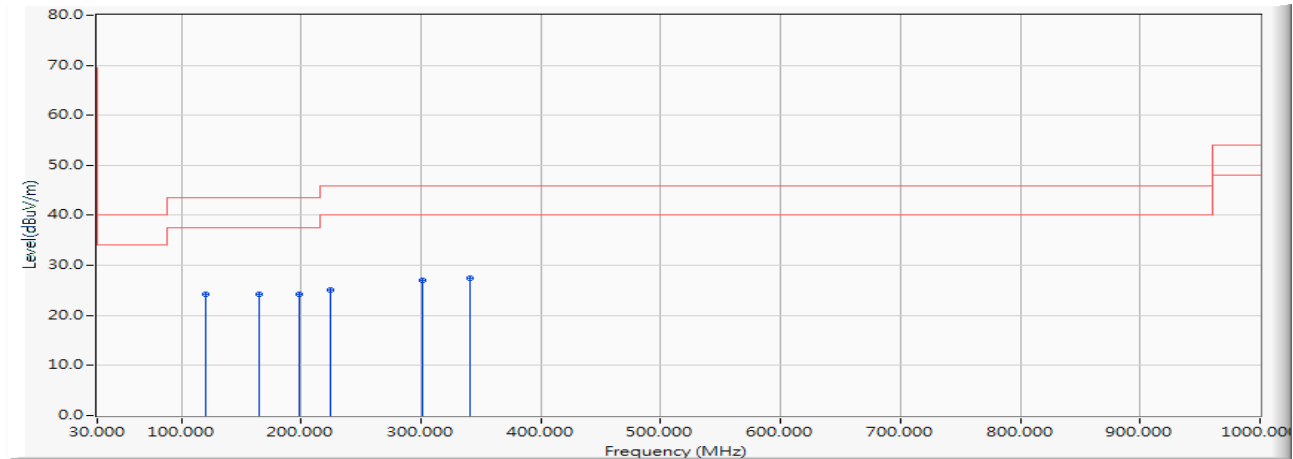
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		4960.000	-6.041	48.810	42.769	-31.231	74.000	PEAK
2		7440.000	-2.805	47.260	44.455	-29.545	74.000	PEAK
3	*	9920.000	-0.260	45.540	45.280	-28.720	74.000	PEAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2441MHz)  
 Test Date : 2018/12/27

### Horizontal



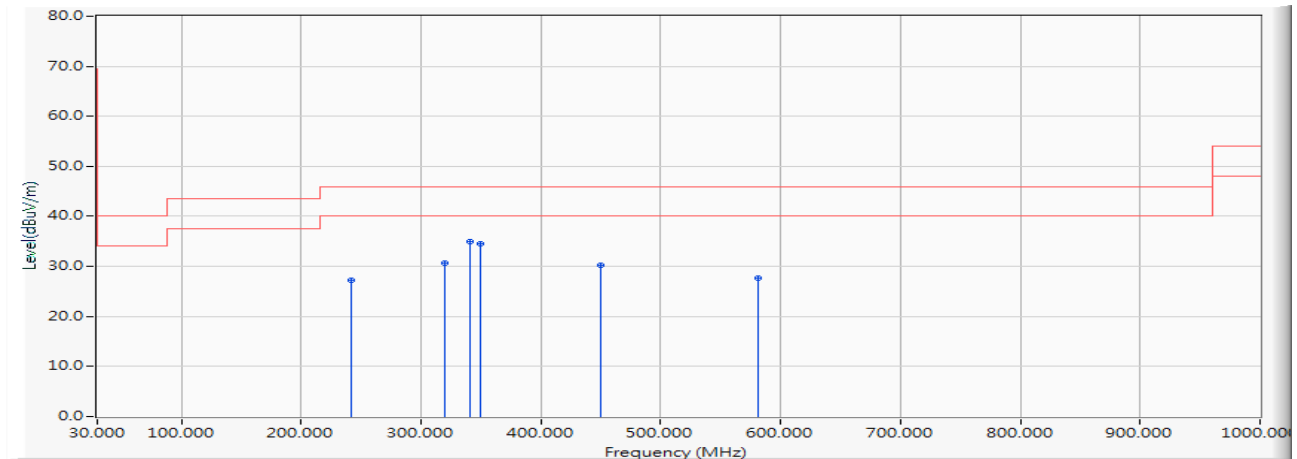
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		119.971	-13.432	37.730	24.298	-19.202	43.500	QUASIPEAK
2		164.957	-11.002	35.201	24.199	-19.301	43.500	QUASIPEAK
3		198.696	-13.710	38.000	24.290	-19.210	43.500	QUASIPEAK
4		224.000	-13.137	38.147	25.010	-20.990	46.000	QUASIPEAK
5		301.319	-10.309	37.237	26.928	-19.072	46.000	QUASIPEAK
6	*	340.681	-9.396	36.837	27.442	-18.558	46.000	QUASIPEAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 1: Transmit - 1Mbps (2441MHz)  
 Test Date : 2018/12/27

### Vertical



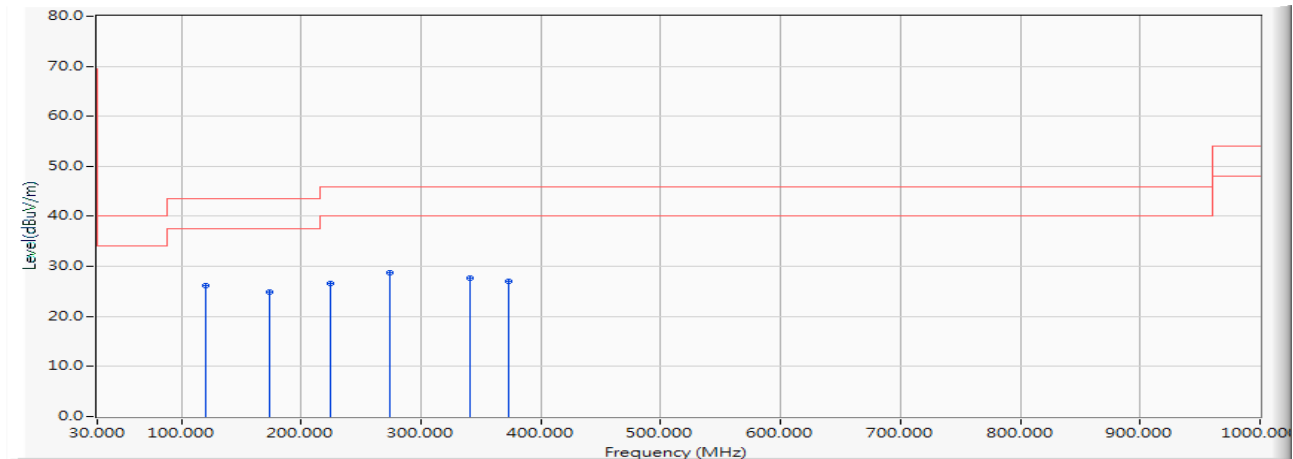
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		242.275	-12.182	39.509	27.326	-18.674	46.000	QUASIPeAK
2		319.594	-9.880	40.577	30.697	-15.303	46.000	QUASIPeAK
3	*	340.681	-9.396	44.314	34.919	-11.081	46.000	QUASIPeAK
4		349.116	-9.199	43.791	34.591	-11.409	46.000	QUASIPeAK
5		450.333	-6.789	36.964	30.174	-15.826	46.000	QUASIPeAK
6		581.072	-4.449	32.200	27.751	-18.249	46.000	QUASIPeAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2441MHz)  
 Test Date : 2018/12/27

### Horizontal



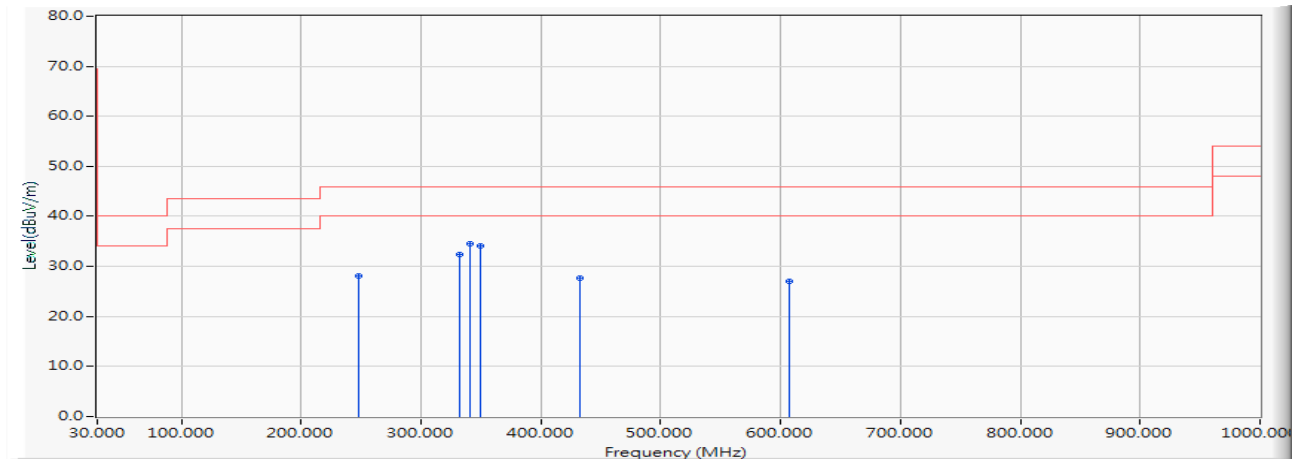
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1	*	119.971	-13.432	39.679	26.247	-17.253	43.500	QUASIPeAK
2		173.391	-11.636	36.483	24.847	-18.653	43.500	QUASIPeAK
3		224.000	-13.137	39.687	26.550	-19.450	46.000	QUASIPeAK
4		274.609	-11.121	39.829	28.707	-17.293	46.000	QUASIPeAK
5		340.681	-9.396	37.060	27.665	-18.335	46.000	QUASIPeAK
6		373.014	-8.655	35.750	27.095	-18.905	46.000	QUASIPeAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 2: Transmit - 2Mbps (2441MHz)  
 Test Date : 2018/12/27

### Vertical



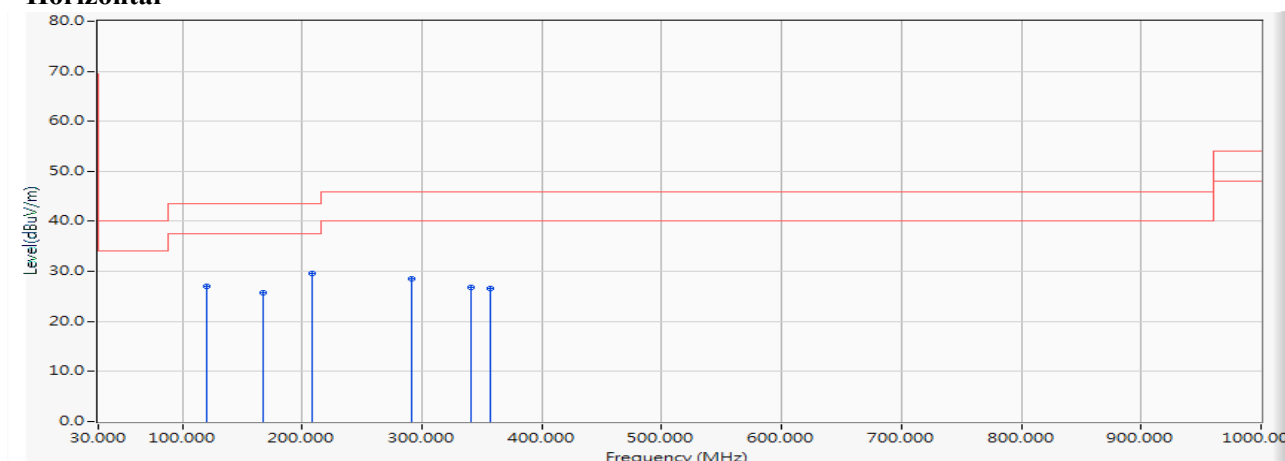
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		247.899	-12.110	40.199	28.090	-17.910	46.000	QUASIPeAK
2		332.246	-9.591	41.954	32.364	-13.636	46.000	QUASIPeAK
3	*	340.681	-9.396	43.824	34.429	-11.571	46.000	QUASIPeAK
4		349.116	-9.199	43.234	34.034	-11.966	46.000	QUASIPeAK
5		432.058	-7.240	34.993	27.753	-18.247	46.000	QUASIPeAK
6		607.783	-3.956	30.920	26.963	-19.037	46.000	QUASIPeAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2441MHz)  
 Test Date : 2018/12/27

### Horizontal



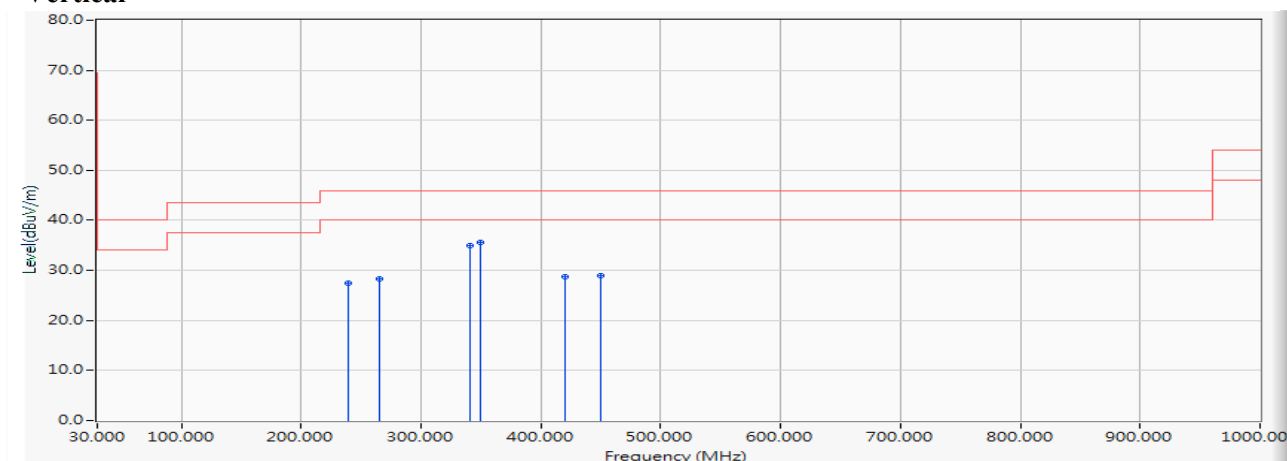
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		119.971	-13.432	40.445	27.013	-16.487	43.500	QUASIPEAK
2		167.768	-11.100	36.846	25.745	-17.755	43.500	QUASIPEAK
3	*	208.536	-13.533	43.077	29.544	-13.956	43.500	QUASIPEAK
4		291.478	-10.618	39.177	28.560	-17.440	46.000	QUASIPEAK
5		340.681	-9.396	36.278	26.883	-19.117	46.000	QUASIPEAK
6		357.551	-9.007	35.671	26.664	-19.336	46.000	QUASIPEAK

### 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® Wireless-AC 9560  
 Test Item : General Radiated Emission  
 Test Mode : Mode 3: Transmit - 3Mbps (2441MHz)  
 Test Date : 2018/12/27

### Vertical



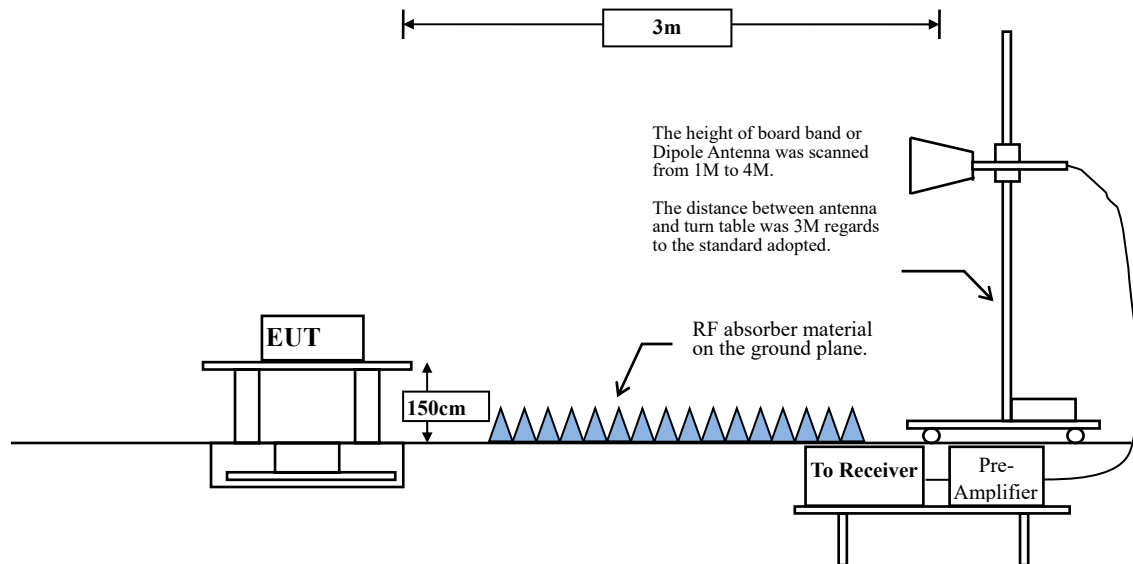
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1		239.464	-12.250	39.706	27.455	-18.545	46.000	QUASIPeAK
2		264.768	-11.649	40.005	28.355	-17.645	46.000	QUASIPeAK
3		340.681	-9.396	44.460	35.065	-10.935	46.000	QUASIPeAK
4	*	349.116	-9.199	44.745	35.545	-10.455	46.000	QUASIPeAK
5		420.812	-7.518	36.260	28.742	-17.258	46.000	QUASIPeAK
6		450.333	-6.789	35.715	28.925	-17.075	46.000	QUASIPeAK

### 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 Setup



### 4.2. Limit

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### **4.3. Test Procedure**

The EUT is placed on a turn table which is 1.5 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 can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

#### **4.4. Uncertainty**

Horizontal polarization : 1-18GHz:  $\pm 3.77\text{dB}$

Vertical polarization : 1-18GHz :  $\pm 3.83\text{dB}$

#### 4.5. Test Result of Band Edge

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 1: Transmit - 1Mbps (2402MHz)  
 Test Date : 2018/12/22

##### RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2371.449	10.188	39.911	50.099	74.00	54.00	Pass
00 (Peak)	2390.000	10.262	37.815	48.077	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	56.286	66.589	--	--	Pass
00 (Peak)	2401.884	10.311	88.536	98.847	--	--	--
00 (Average)	2363.623	10.157	19.522	29.678	74.00	54.00	Pass
00 (Average)	2390.000	10.262	18.115	28.377	74.00	54.00	Pass
00 (Average)	2400.000	10.304	37.773	48.076	--	--	Pass
00 (Average)	2402.029	10.312	73.126	83.438	--	--	--

Figure Channel 00:

Horizontal (Peak)

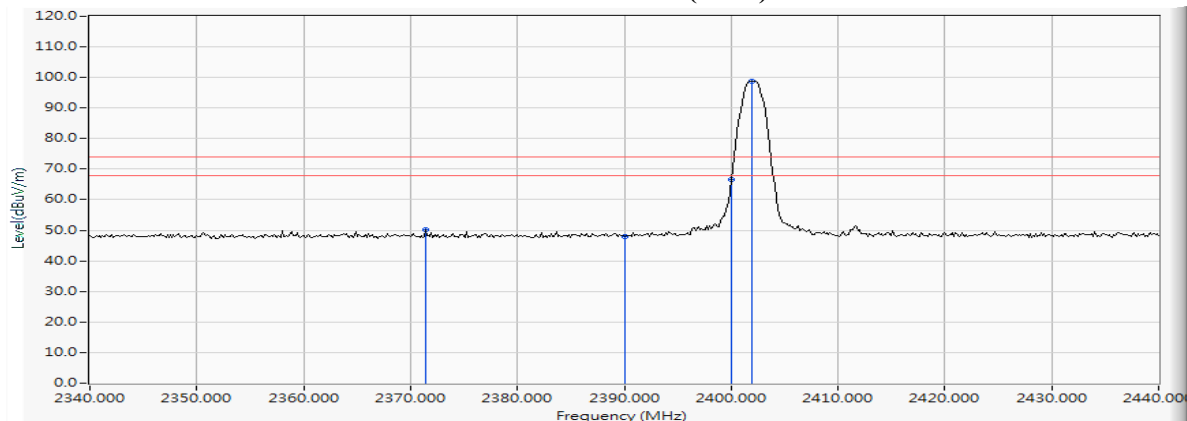
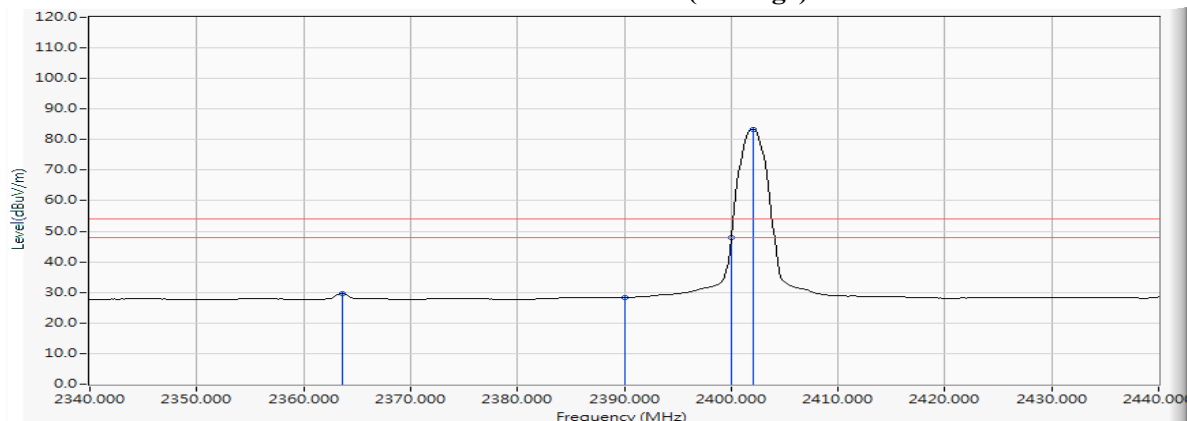


Figure Channel 00:

Horizontal (Average)



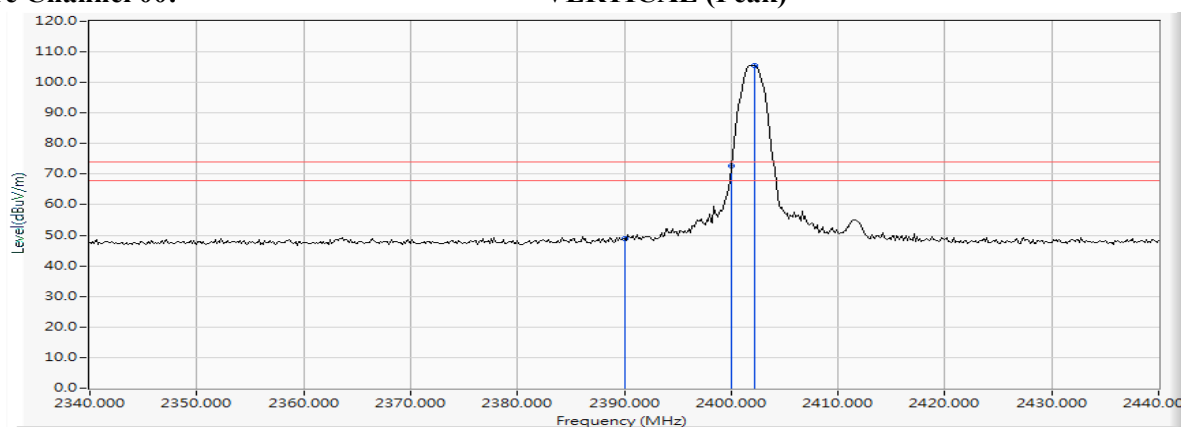
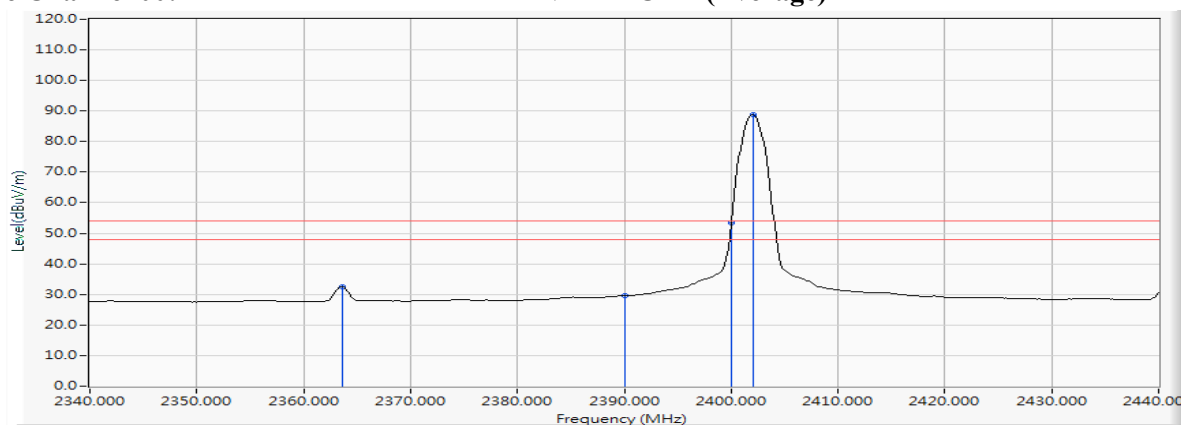
Note:

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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 1: Transmit - 1Mbps (2402MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2390.000	10.262	38.609	48.871	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	62.345	72.648	--	--	Pass
00 (Peak)	2402.174	10.312	95.102	105.414	--	--	--
00 (Average)	2363.623	10.157	22.493	32.649	74.00	54.00	Pass
00 (Average)	2390.000	10.262	19.200	29.462	74.00	54.00	Pass
00 (Average)	2400.000	10.304	43.080	53.383	--	--	Pass
00 (Average)	2402.029	10.312	78.350	88.662	--	--	--

**Figure Channel 00:**
**VERTICAL (Peak)**

**Figure Channel 00:**
**VERTICAL (Average)**


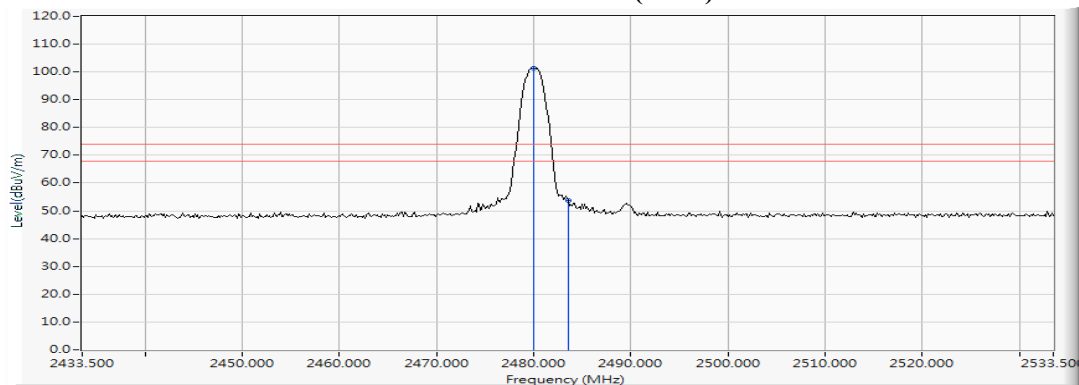
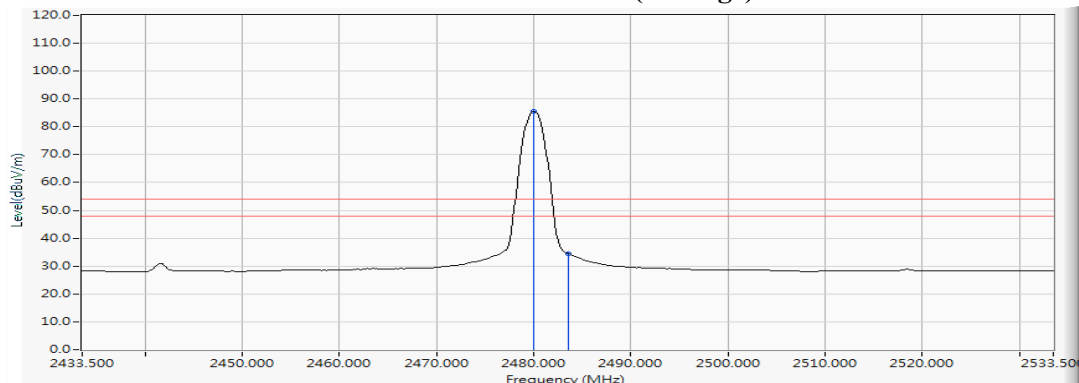
Note:

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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 1: Transmit - 1Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Average Limit (dB $\mu$ V/m)	Result
78 (Peak)	2480.022	10.628	90.823	101.451	--	--	--
78 (Peak)	2483.500	10.640	43.179	53.820	74.00	54.00	Pass
78 (Average)	2480.022	10.628	74.901	85.529	--	--	--
78 (Average)	2483.500	10.640	23.897	34.538	74.00	54.00	Pass

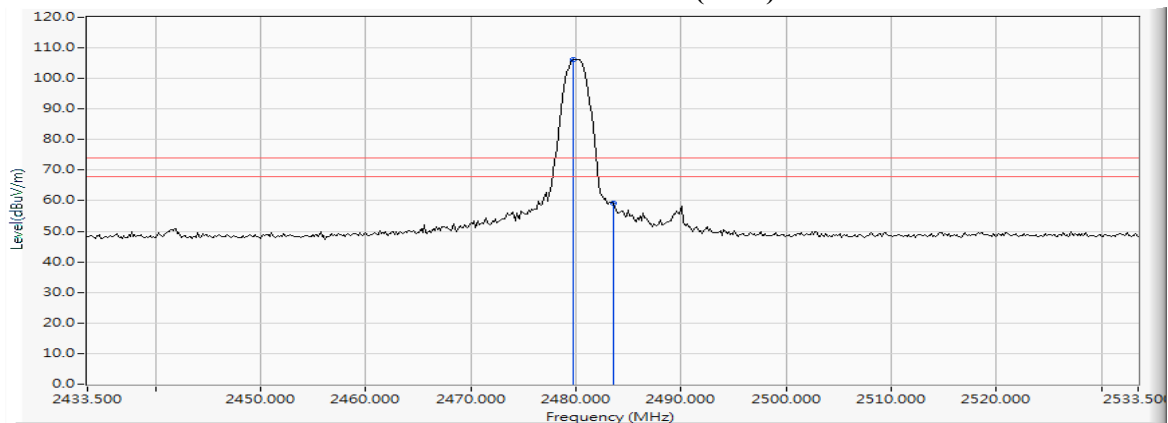
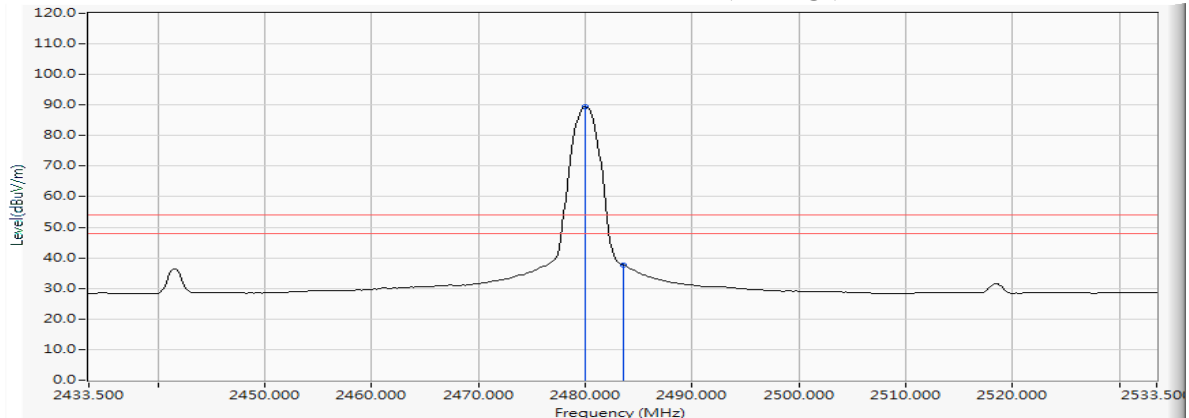
**Figure Channel 78: Horizontal (Peak)**

**Figure Channel 78: 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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 1: Transmit - 1Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2479.732	10.627	95.680	106.307	--	--	--
78 (Peak)	2483.500	10.640	48.581	59.222	74.00	54.00	Pass
78 (Average)	2480.022	10.628	78.730	89.358	--	--	--
78 (Average)	2483.500	10.640	27.118	37.759	74.00	54.00	Pass

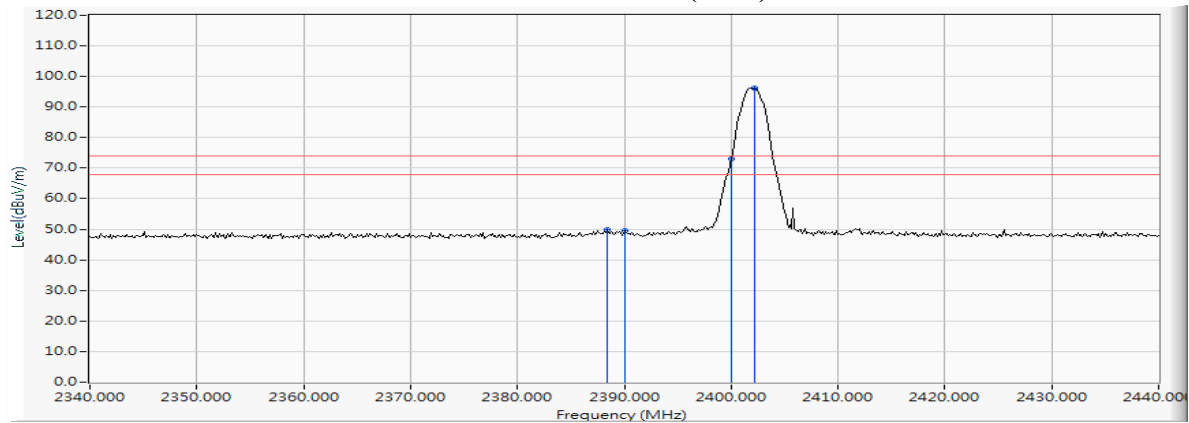
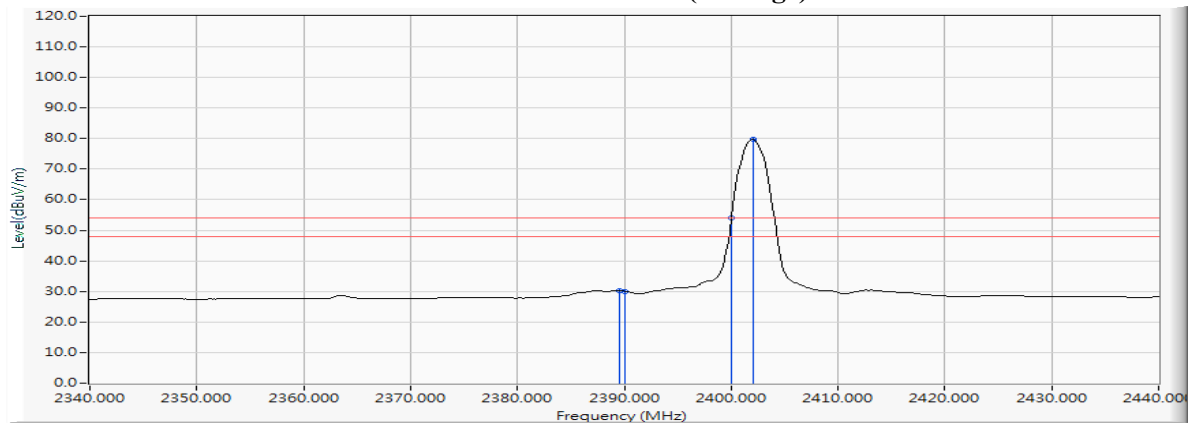
**Figure Channel 78: VERTICAL (Peak)**

**Figure Channel 78: 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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 2: Transmit - 2Mbps (2402MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2388.406	10.256	39.611	49.866	74.00	54.00	Pass
00 (Peak)	2390.000	10.262	39.242	49.504	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	62.884	73.187	--	--	Pass
00 (Peak)	2402.174	10.312	85.807	96.119	--	--	--
00 (Average)	2389.565	10.261	20.005	30.265	74.00	54.00	Pass
00 (Average)	2390.000	10.262	19.752	30.014	74.00	54.00	Pass
00 (Average)	2400.000	10.304	43.779	54.082	--	--	Pass
00 (Average)	2402.029	10.312	69.363	79.675	--	--	--

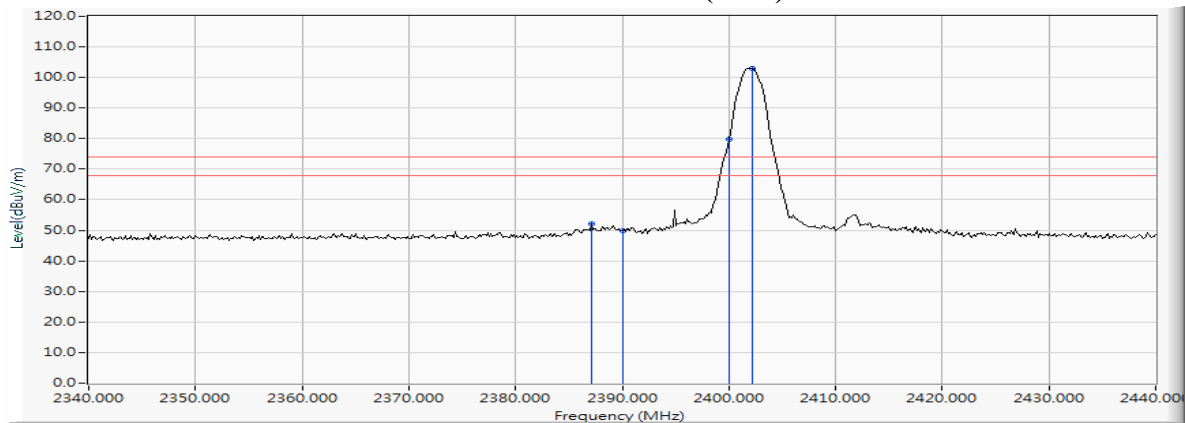
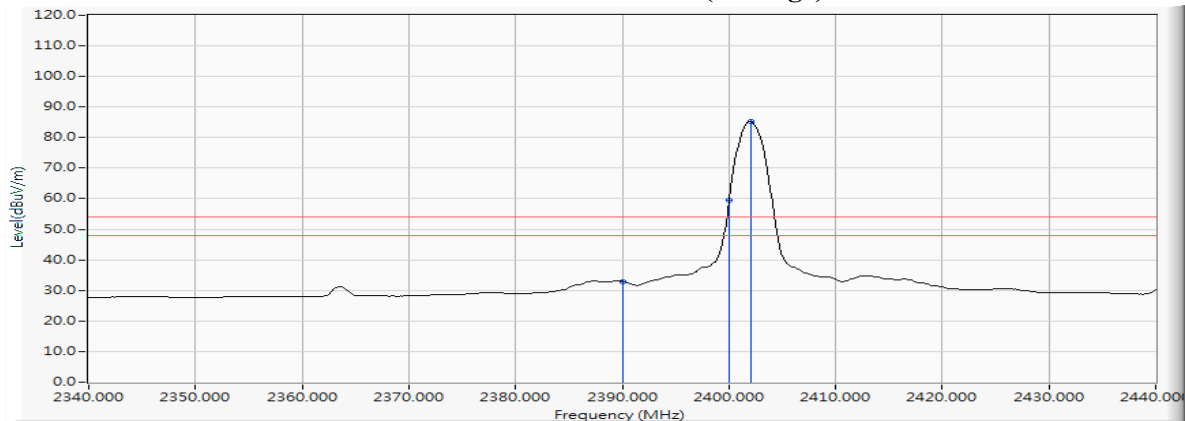
**Figure Channel 00:**
**Horizontal (Peak)**

**Figure Channel 00:**
**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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 2: Transmit - 2Mbps (2402MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2387.101	10.250	41.905	52.155	74.00	54.00	Pass
00 (Peak)	2390.000	10.262	39.458	49.720	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	69.340	79.643	--	--	Pass
00 (Peak)	2402.174	10.312	92.674	102.986	--	--	--
00 (Average)	2390.000	10.262	22.655	32.917	74.00	54.00	Pass
00 (Average)	2400.000	10.304	49.278	59.581	--	--	Pass
00 (Average)	2402.029	10.312	74.880	85.192	--	--	--

**Figure Channel 00: VERTICAL (Peak)**

**Figure Channel 00: VERTICAL (Average)**


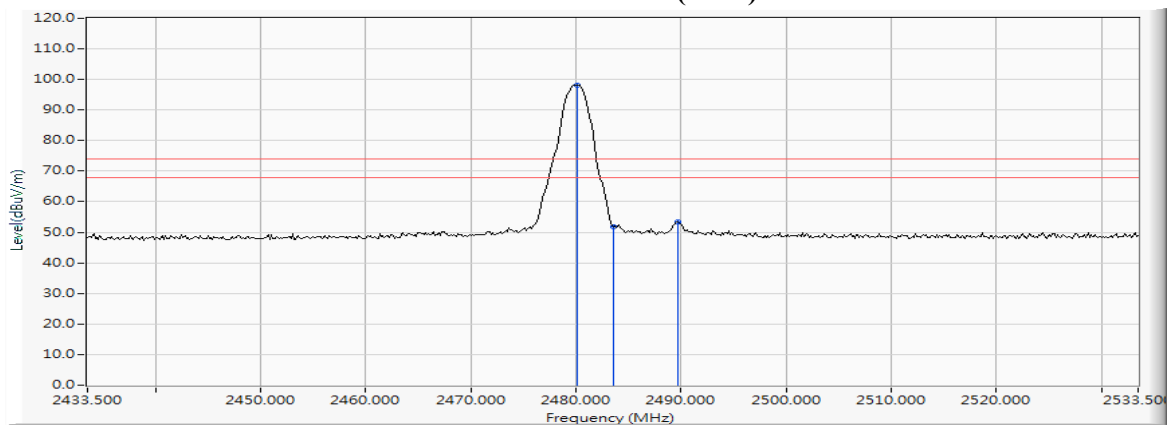
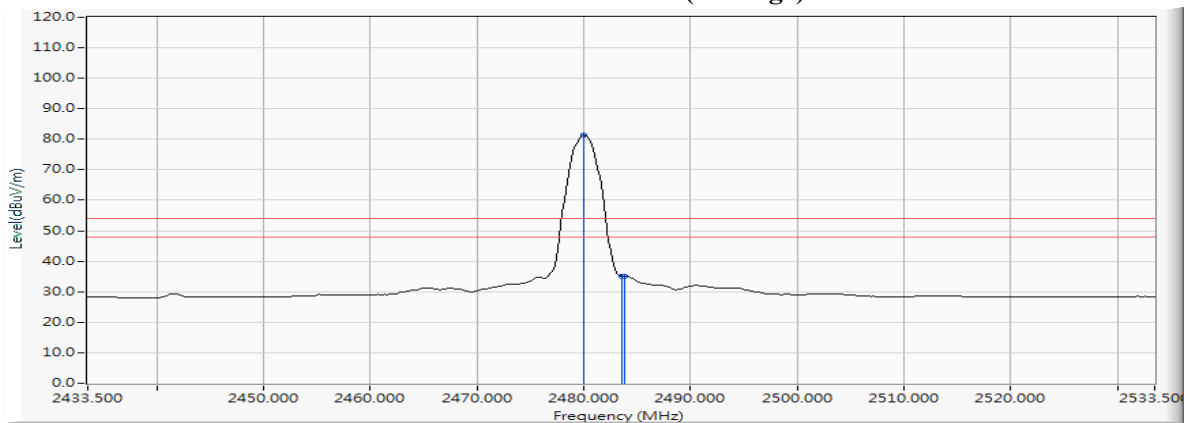
Note:

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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 2: Transmit - 2Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Average Limit (dB $\mu$ V/m)	Result
78 (Peak)	2480.167	10.629	87.530	98.159	--	--	--
78 (Peak)	2483.500	10.640	41.294	51.935	74.00	54.00	Pass
78 (Peak)	2489.732	10.666	42.815	53.480	74.00	54.00	Pass
78 (Average)	2480.022	10.628	70.688	81.316	--	--	--
78 (Average)	2483.500	10.640	24.539	35.180	74.00	54.00	Pass
78 (Average)	2483.790	10.643	24.542	35.184	74.00	54.00	Pass

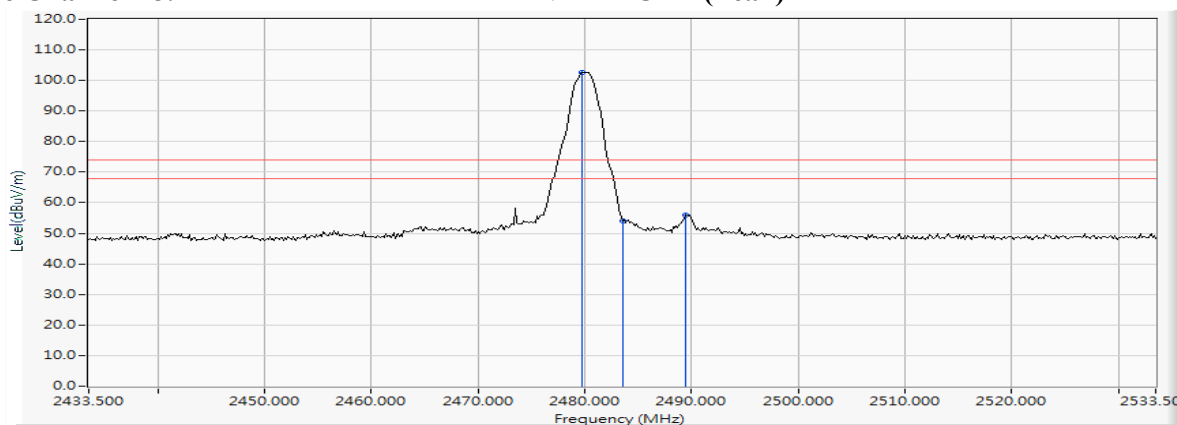
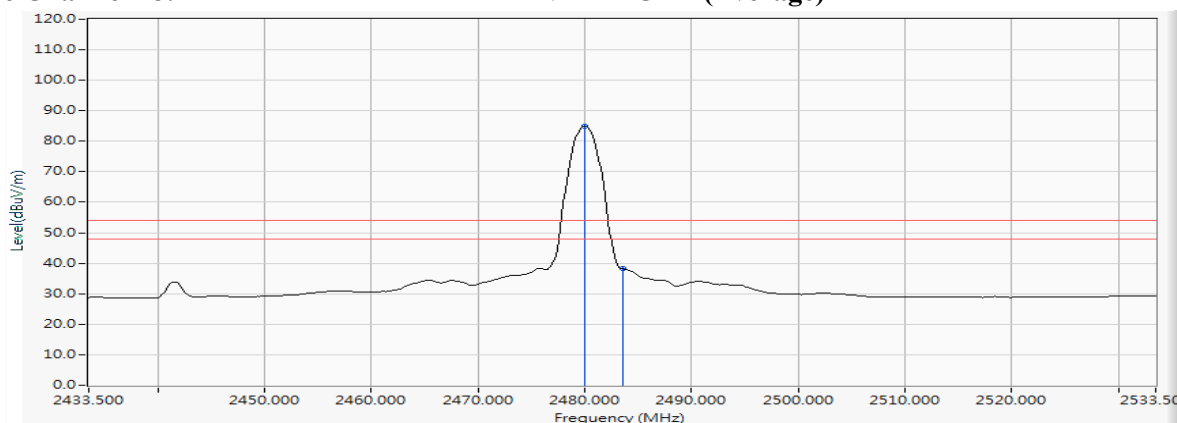
**Figure Channel 78: Horizontal (Peak)**

**Figure Channel 78: 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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 2: Transmit - 2Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2479.732	10.627	92.021	102.648	--	--	--
78 (Peak)	2483.500	10.640	43.543	54.184	74.00	54.00	Pass
78 (Peak)	2489.442	10.664	45.358	56.022	74.00	54.00	Pass
78 (Average)	2480.022	10.628	74.300	84.928	--	--	--
78 (Average)	2483.500	10.640	27.518	38.159	74.00	54.00	Pass

**Figure Channel 78: VERTICAL (Peak)****Figure Channel 78: VERTICAL (Average)**

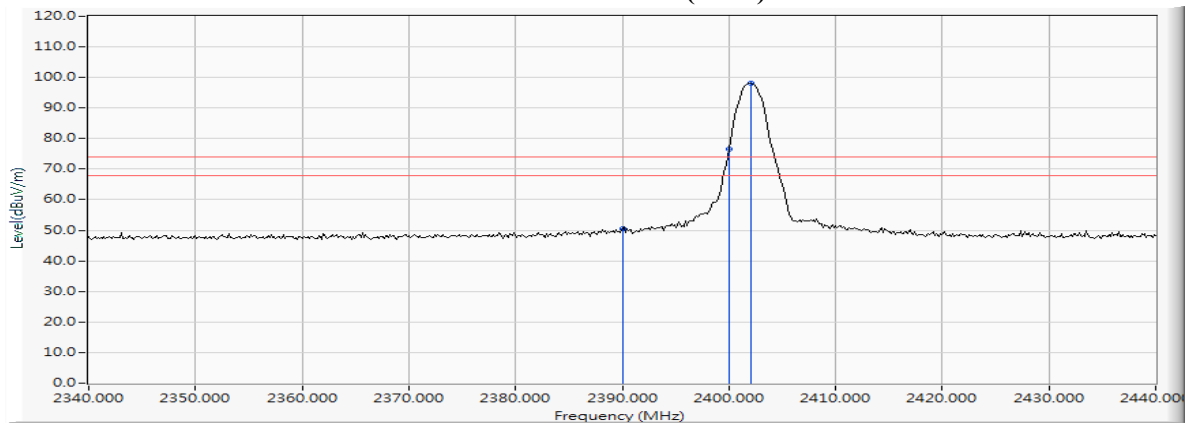
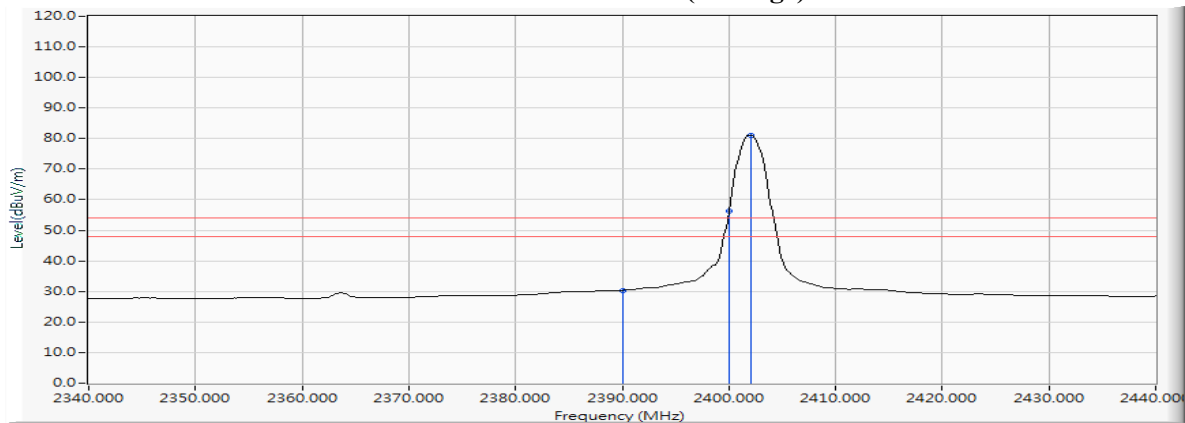
Note:

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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 3: Transmit - 3Mbps (2402MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2390.000	10.262	40.288	50.550	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	66.250	76.553	--	--	Pass
00 (Peak)	2402.029	10.312	87.738	98.050	--	--	--
00 (Average)	2390.000	10.262	20.129	30.391	74.00	54.00	Pass
00 (Average)	2400.000	10.304	45.846	56.149	--	--	Pass
00 (Average)	2402.029	10.312	70.914	81.226	--	--	--

**Figure Channel 00: Horizontal (Peak)**

**Figure Channel 00: Horizontal (Average)**


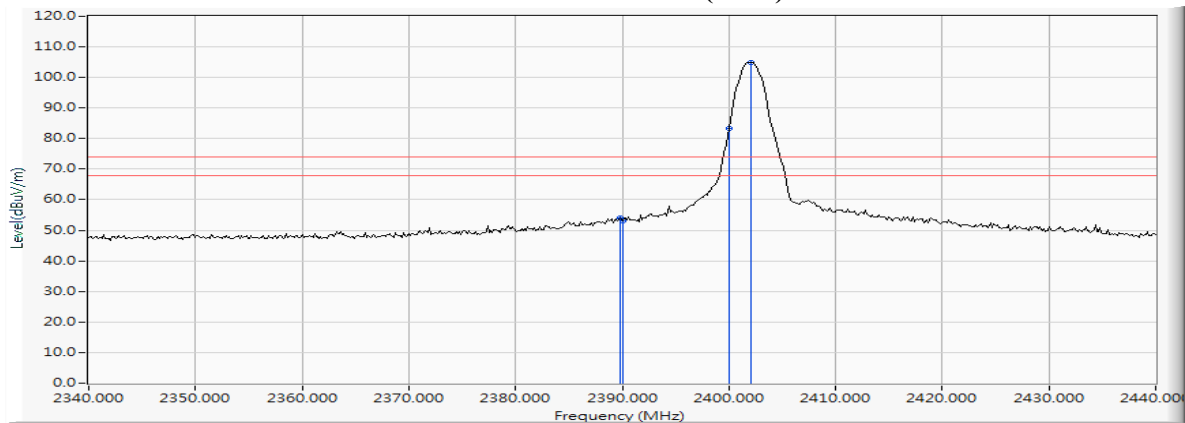
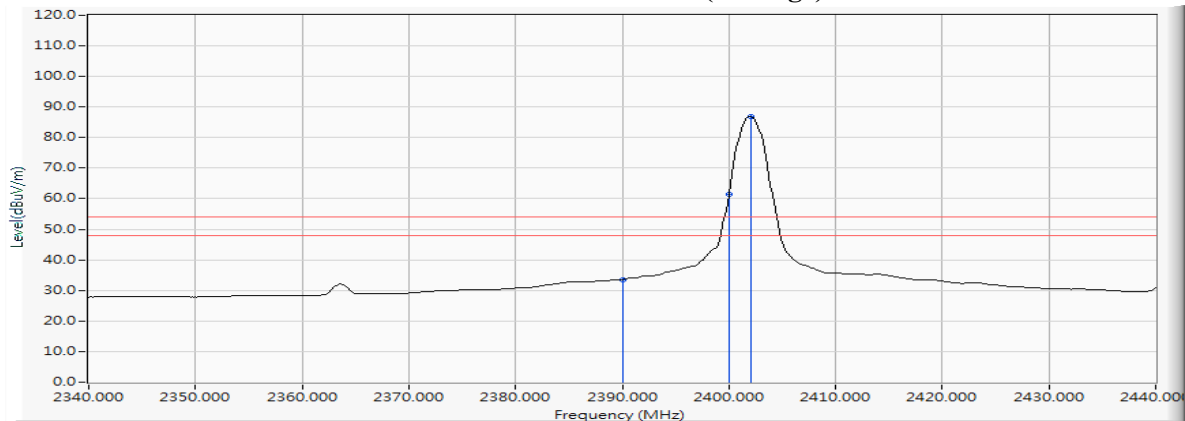
Note:

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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 3: Transmit - 3Mbps (2402MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2389.855	10.262	43.660	53.922	74.00	54.00	Pass
00 (Peak)	2390.000	10.262	42.709	52.971	74.00	54.00	Pass
00 (Peak)	2400.000	10.304	73.149	83.452	--	--	Pass
00 (Peak)	2402.029	10.312	94.621	104.933	--	--	--
00 (Average)	2390.000	10.262	23.342	33.604	74.00	54.00	Pass
00 (Average)	2400.000	10.304	51.053	61.356	--	--	Pass
00 (Average)	2402.029	10.312	76.408	86.720	--	--	--

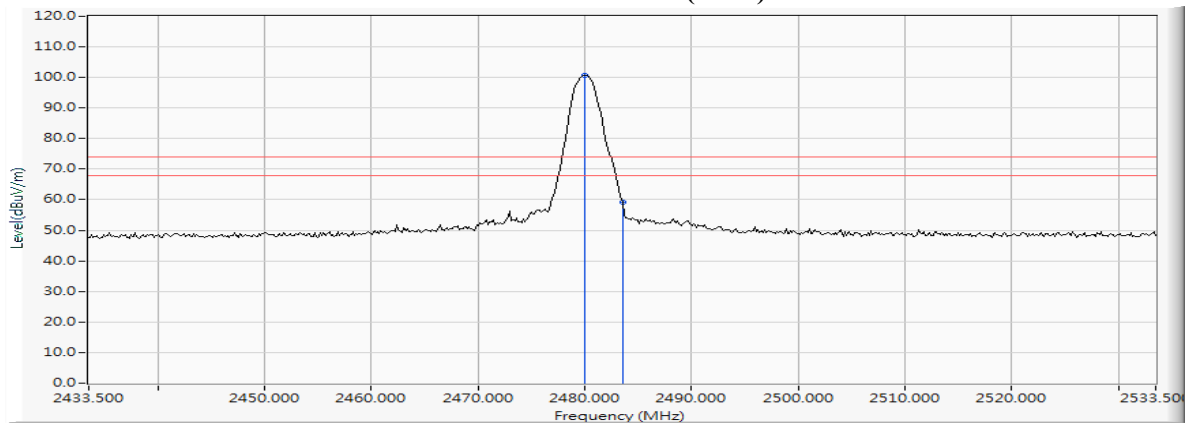
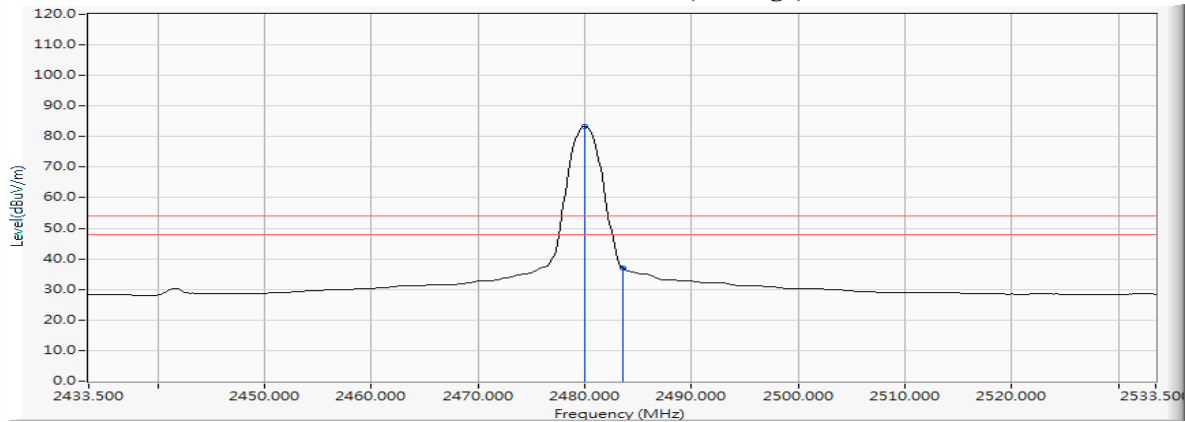
**Figure Channel 00: VERTICAL (Peak)**

**Figure Channel 00: 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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 3: Transmit - 3Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2480.022	10.628	90.048	100.676	--	--	--
78 (Peak)	2483.500	10.640	48.635	59.276	74.00	54.00	Pass
78 (Average)	2480.022	10.628	72.546	83.174	--	--	--
78 (Average)	2483.500	10.640	26.437	37.078	74.00	54.00	Pass

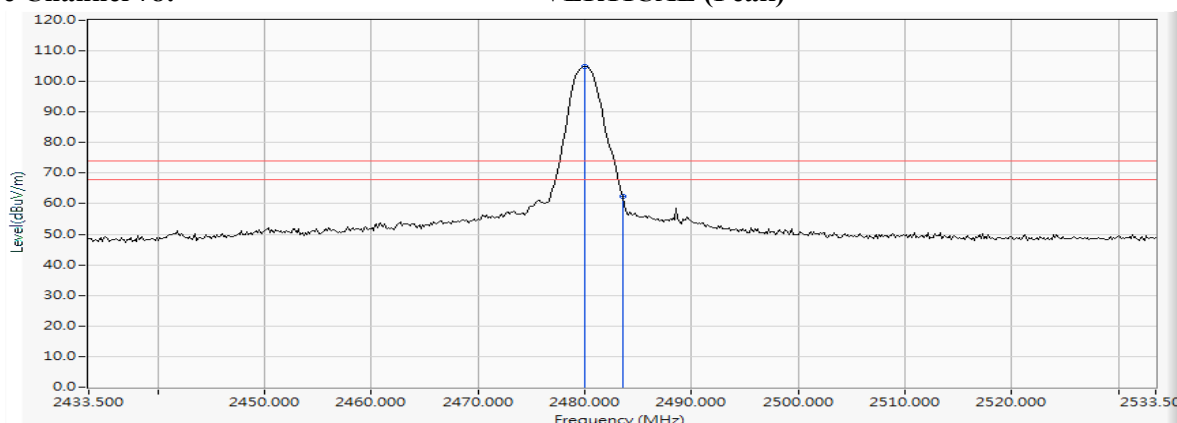
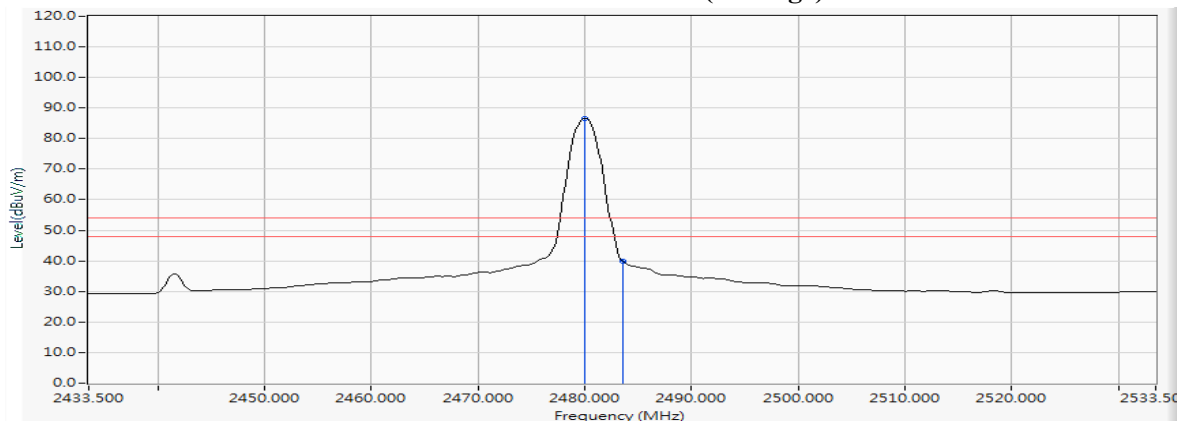
**Figure Channel 78:**
**Horizontal (Peak)**

**Figure Channel 78:**
**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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : Intel® Wireless-AC 9560  
 Test Item : Band Edge  
 Test Mode : Mode 3: Transmit - 3Mbps (2480MHz)  
 Test Date : 2018/12/22

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2480.022	10.628	94.239	104.867	--	--	--
78 (Peak)	2483.500	10.640	51.718	62.359	74.00	54.00	Pass
78 (Average)	2480.022	10.628	75.901	86.529	--	--	--
78 (Average)	2483.500	10.640	29.348	39.989	74.00	54.00	Pass

**Figure Channel 78:**
**VERTICAL (Peak)**

**Figure Channel 78:**
**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 + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

## **5. EMI Reduction Method During Compliance Testing**

No modification was made during testing.