

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-C
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.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Test Report

Issued Date: Jan. 15, 2019

Report No.: 18C0176R-RFUSP11V00-C



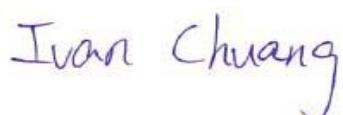
Product Name	Intel® Wireless-AC 9560
Applicant	TONGFANG HONGKONG (SUZHOU) LIMITED
Address	NO. 83 Wu Lane, Suzhou Industrial Park, Suzhou City, Jiangsu Province, 215000 China
Manufacturer	Intel Mobile Communications
Model No.	9560NGW
FCC ID.	2AKHF9560NG
EUT Rated Voltage	AC 100-240V / 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2017 ANSI C63.4: 2014, ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v02
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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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Intel® Wireless-AC 9560
Trade Name	Intel
FCC ID.	2AKHF9560NG
Model No.	9560NGW
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz 802.11n-40MHz: 5190-5310MHz, 5510-5670MHz, 5755-5795MHz 802.11ac-20MHz: 5720MHz 802.11ac-40MHz: 5710MHz 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz 802.11ac-160MHz: 5250MHz, 5570MHz
Number of Channels	802.11a/n-20MHz: 24, 802.11n-40MHz: 11 802.11ac-20MHz: 1, 802.11ac-40MHz: 1 802.11ac-80MHz: 6, 802.11ac-160MHz: 2
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7Mbps 802.11ac-160MHz: up to 1733.3Mbps
Type of Modulation	802.11a/n/ac: OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
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	ANTRG7S119-0302 (Main) ANTRG7S119-0301 (Aux)	Slot Antenna	0.97dBi for 5.150~5.250GHz 1.62dBi for 5.250~5.350GHz 2.65dBi for 5.470~5.725GHz 2.77dBi For 5.725~5.850GHz

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

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz	Channel 149:	5745 MHz
Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz	Channel 165:	5825 MHz

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz	Channel 151:	5755 MHz	Channel 159:	5795 MHz		

802.11ac-20MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 144:	5720 MHz

802.11ac-40MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 142:	5710 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 42:	5210 MHz	Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz
Channel 138:	5690 MHz	Channel 155:	5775 MHz				

802.11ac-160MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 50:	5250 MHz	Channel 114:	5570 MHz

Note:

1. This device is an Intel® Wireless-AC 9560 with a built-in WLAN (802.11a/b/g/n/ac) with Bluetooth (5.0 and V3.0+HS, V2.1+EDR) transceiver, this report for 5GHz 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.
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance of transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
5. 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	<p>Mode 1 SISO A: Transmit (802.11a_6Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11n-20BW_7.2Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11n-40BW_15Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11ac-20BW_7.2Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11ac-40BW_15Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11ac-80BW_32.5Mbps)</p> <p>Mode 1 SISO A: Transmit (802.11ac-160BW_65Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11a_6Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11n-20BW_7.2Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11n-40BW_15Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11ac-20BW_7.2Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11ac-40BW_15Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11ac-80BW_32.5Mbps)</p> <p>Mode 2 SISO B: Transmit (802.11ac-160BW_65Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11n-20BW_14.4Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11n-40BW_30Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11ac-20BW_14.4Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11ac-40BW_30Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11ac-80BW_65Mbps)</p> <p>Mode 3 MIMO: Transmit (802.11ac-160BW_130Mbps)</p>
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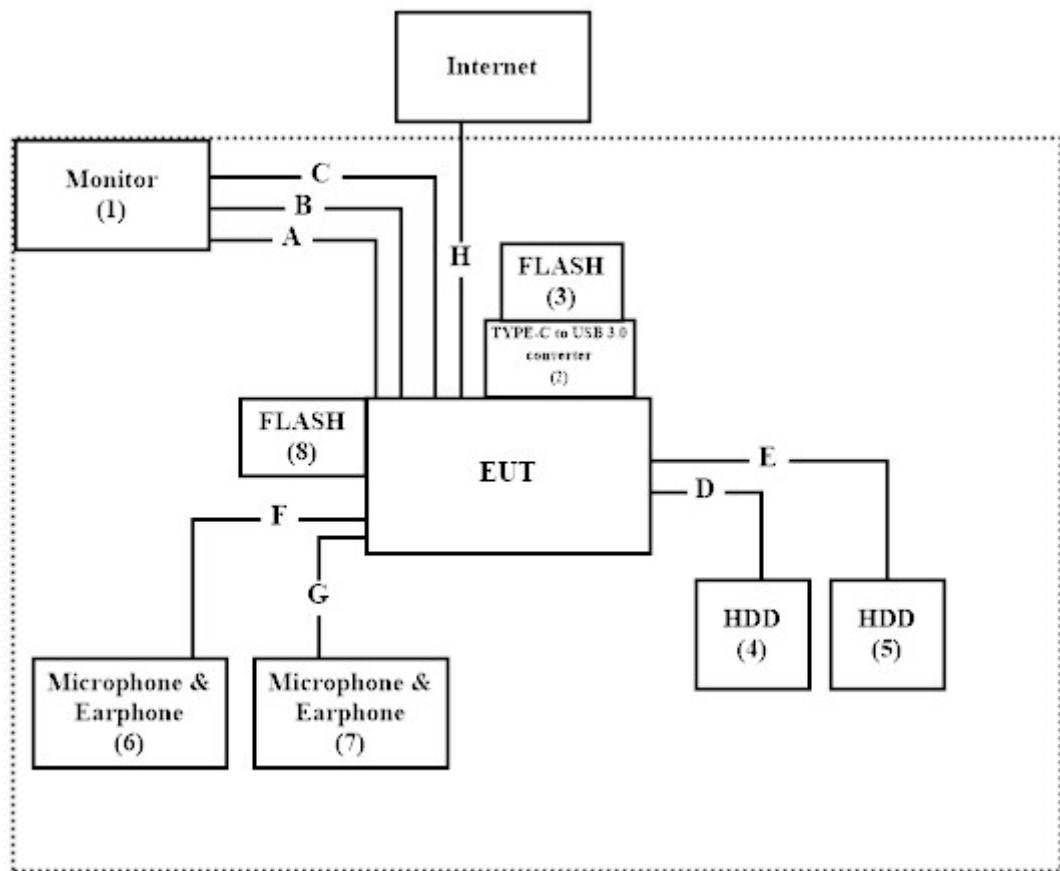
1.3. Tested System Details

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>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en

Site Description: Accredited by TAF
Accredited Number: 3023

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E-Mail : 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
	Filter	MICRO TRONICS	BRM50702	G251	2018.09.04	2019.09.03
X	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

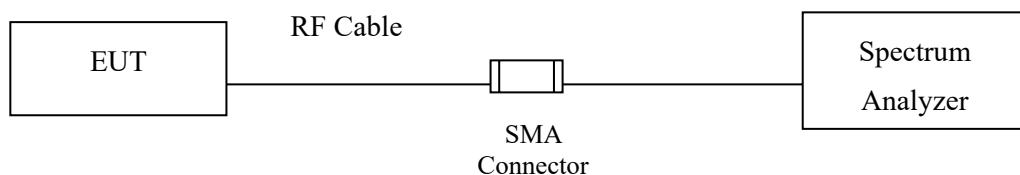
Note:

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. Maximum conducted output power

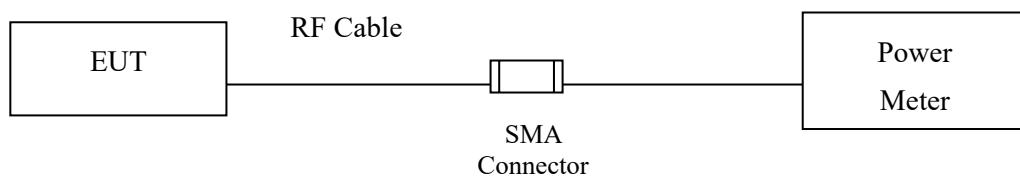
2.1. Test Setup

99% Occupied Bandwidth

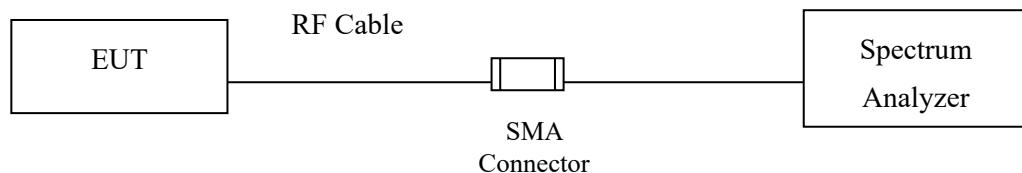


Conduction Power Measurement

Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



2.2. Limits

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-topoint U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 99% emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

2.3. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW \leq 40MHz) Maximum conducted output power using KDB 789033 section E)3)b)
Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth.

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b)
Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

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 D03 section D) procedure is used for measurements.

2.4. Uncertainty

Power Meter: ± 0.95 dB

Spectrum Analyzer: ± 1.30 dB

2.5. Test Result of Maximum conducted output power

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11a_6Mbps)

Cable loss=1.5dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	17.72	--	--	--	--	--	--	--	<24dBm
40	5200	19.28	19.25	19.21	19.19	19.16	19.11	19.08	19.05	<24dBm
48	5240	19.64	--	--	--	--	--	--	--	<24dBm
52	5260	19.86	--	--	--	--	--	--	--	<24dBm
56	5280	19.83	19.81	19.78	19.75	19.73	19.68	19.66	19.63	<24dBm
64	5320	15.37	--	--	--	--	--	--	--	<24dBm
100	5500	17.15	--	--	--	--	--	--	--	<24dBm
120	5600	19.83	19.8	19.79	19.77	19.74	19.69	19.65	19.62	<24dBm
140	5700	17.21	--	--	--	--	--	--	--	<24dBm
149	5745	19.67	--	--	--	--	--	--	--	<30dBm
157	5785	19.73	19.71	19.68	19.66	19.64	19.58	19.54	19.51	<30dBm
165	5825	19.76	--	--	--	--	--	--	--	<30dBm

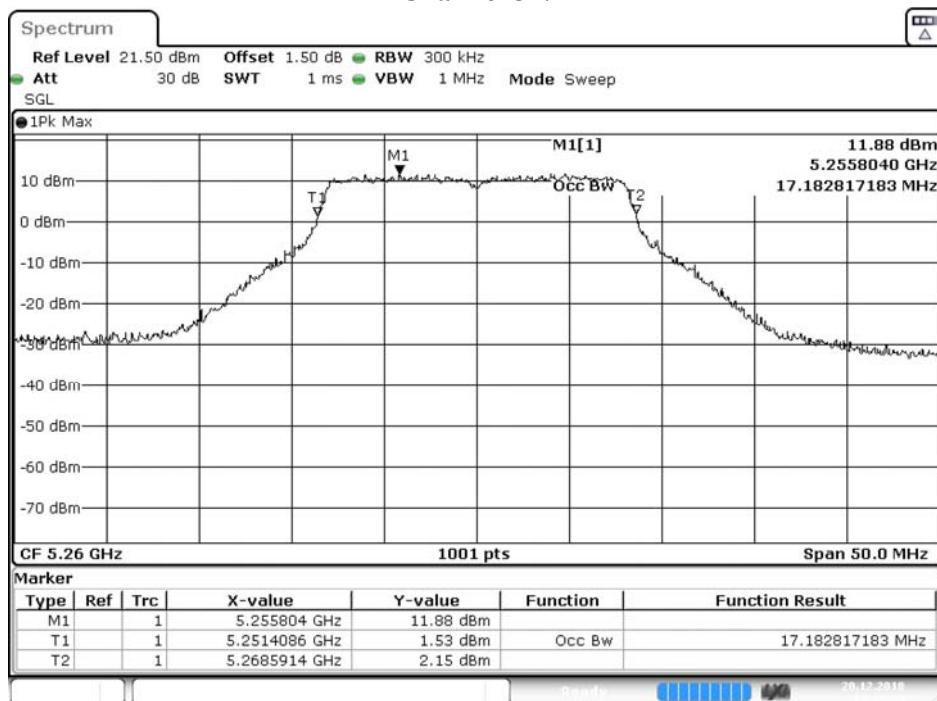
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
36	5180	--	17.72	24	--	Pass
40	5200	--	19.28	24	--	Pass
48	5240	--	19.64	24	--	Pass
52	5260	17.182	19.86	24	23.35	Pass
56	5280	17.182	19.83	24	23.35	Pass
64	5320	17.182	15.37	24	23.35	Pass
100	5500	17.132	17.15	24	23.34	Pass
120	5600	17.232	19.83	24	23.36	Pass
140	5700	17.132	17.21	24	23.34	Pass
149	5745	--	19.67	30	--	Pass
157	5785	--	19.73	30	--	Pass
165	5825	--	19.76	30	--	Pass

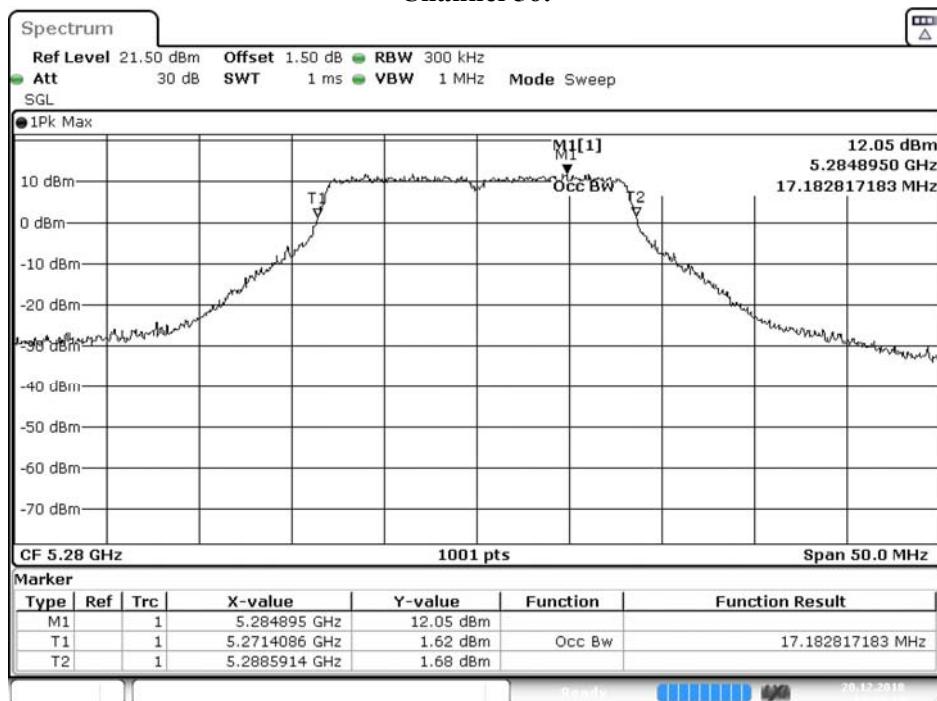
99% Occupied Bandwidth:

Channel 52:

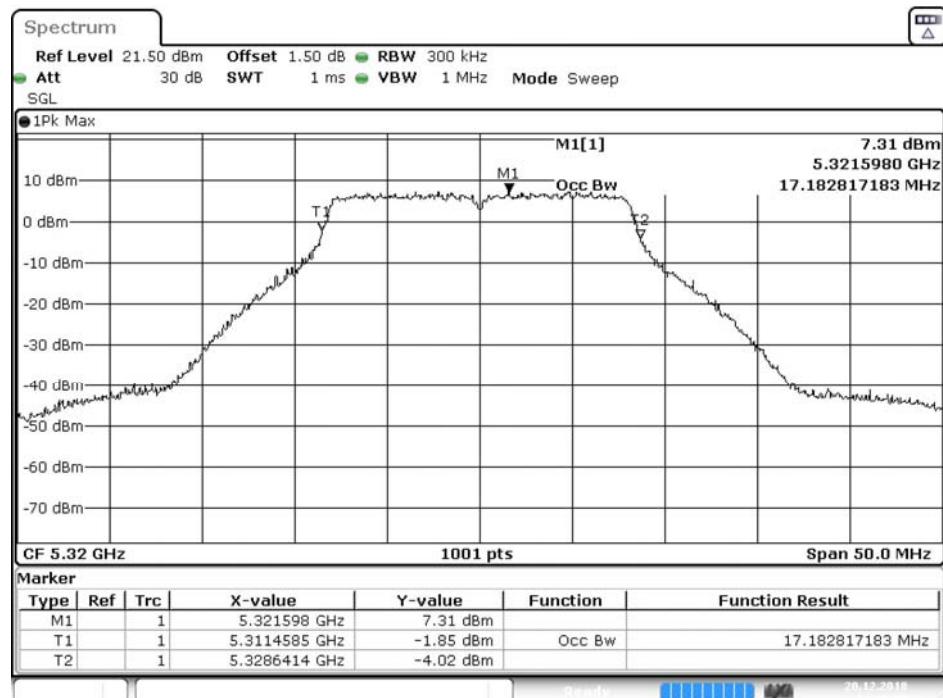


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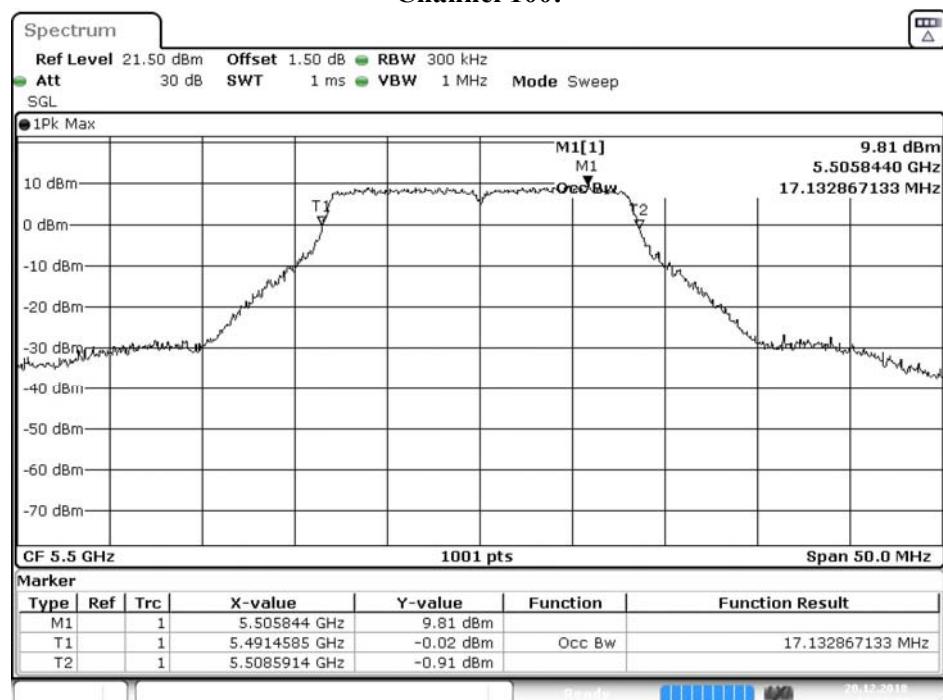
Channel 56:



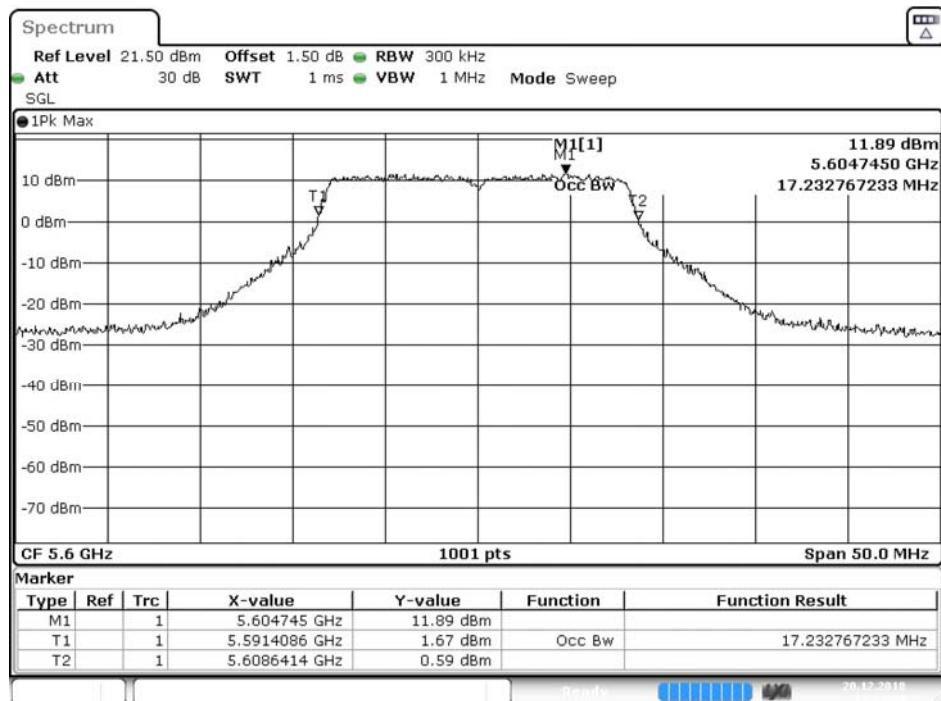
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Channel 64:

Date: 20.DEC.2018 13:40:03

Channel 100:

Date: 20.DEC.2018 13:42:49

Channel 120:

Date: 20.DEC.2018 13:43:36

Channel 140:

Date: 20.DEC.2018 13:44:14

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW_7.2Mbps)

Cable loss=1.5dB		Average Power									Required Limit
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2		
Measurement Level (dBm)											
36	5180	17.73	--	--	--	--	--	--	--	<24dBm	
40	5200	19.27	19.25	19.21	19.19	19.17	19.13	19.08	19.05	<24dBm	
48	5240	19.86	--	--	--	--	--	--	--	<24dBm	
52	5260	19.81	--	--	--	--	--	--	--	<24dBm	
56	5280	19.79	19.76	19.75	19.69	19.65	19.63	19.58	19.54	<24dBm	
64	5320	15.27	--	--	--	--	--	--	--	<24dBm	
100	5500	16.08	--	--	--	--	--	--	--	<24dBm	
120	5600	19.84	19.81	19.78	19.75	19.71	19.68	19.64	19.62	<24dBm	
140	5700	17.01	--	--	--	--	--	--	--	<24dBm	
149	5745	19.76	--	--	--	--	--	--	--	<30dBm	
157	5785	19.72	19.69	19.66	19.62	19.58	19.57	19.53	19.47	<30dBm	
165	5825	19.71	--	--	--	--	--	--	--	<30dBm	

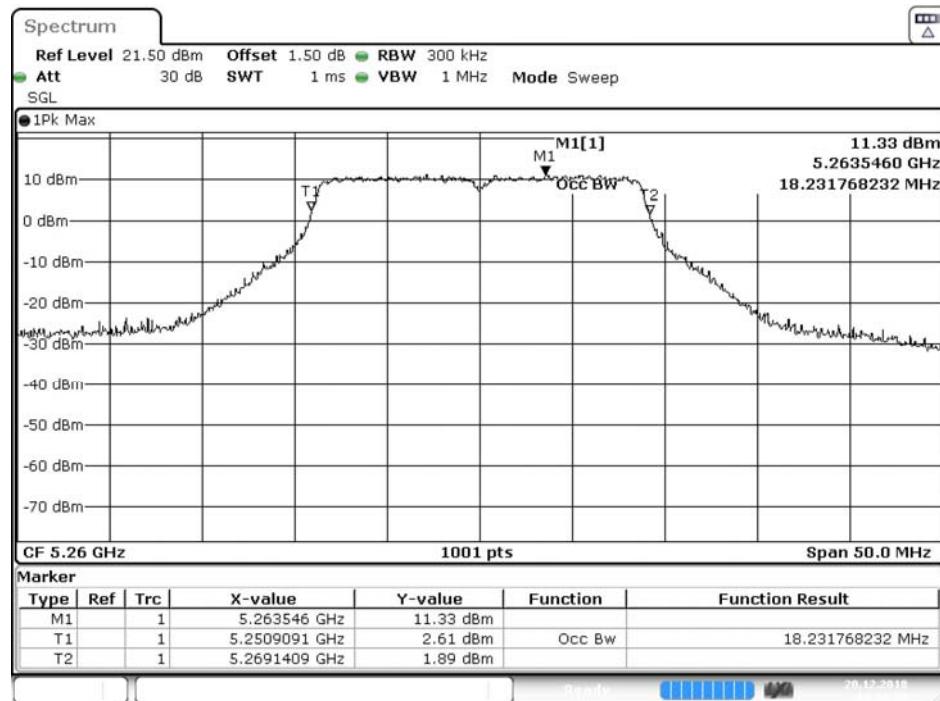
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
36	5180	--	17.73	24	--	Pass
40	5200	--	19.27	24	--	Pass
48	5240	--	19.86	24	--	Pass
52	5260	18.231	19.81	24	23.61	Pass
56	5280	18.231	19.79	24	23.61	Pass
64	5320	18.181	15.27	24	23.60	Pass
100	5500	18.231	16.08	24	23.61	Pass
120	5600	18.231	19.84	24	23.61	Pass
140	5700	18.181	17.01	24	23.60	Pass
149	5745	--	19.76	30	--	Pass
157	5785	--	19.72	30	--	Pass
165	5825	--	19.71	30	--	Pass

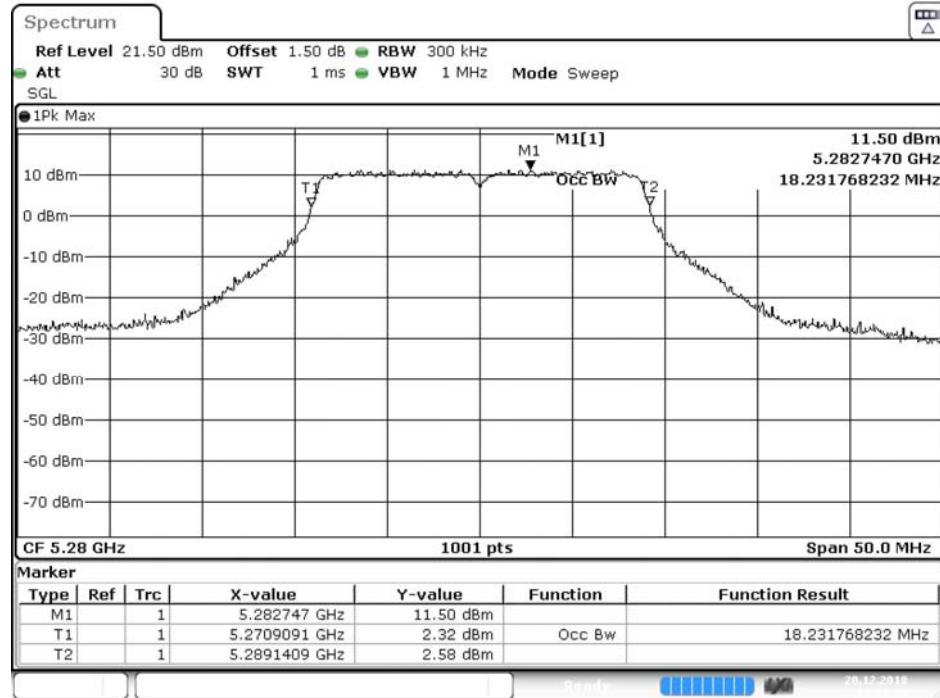
99% Occupied Bandwidth:

Channel 52:

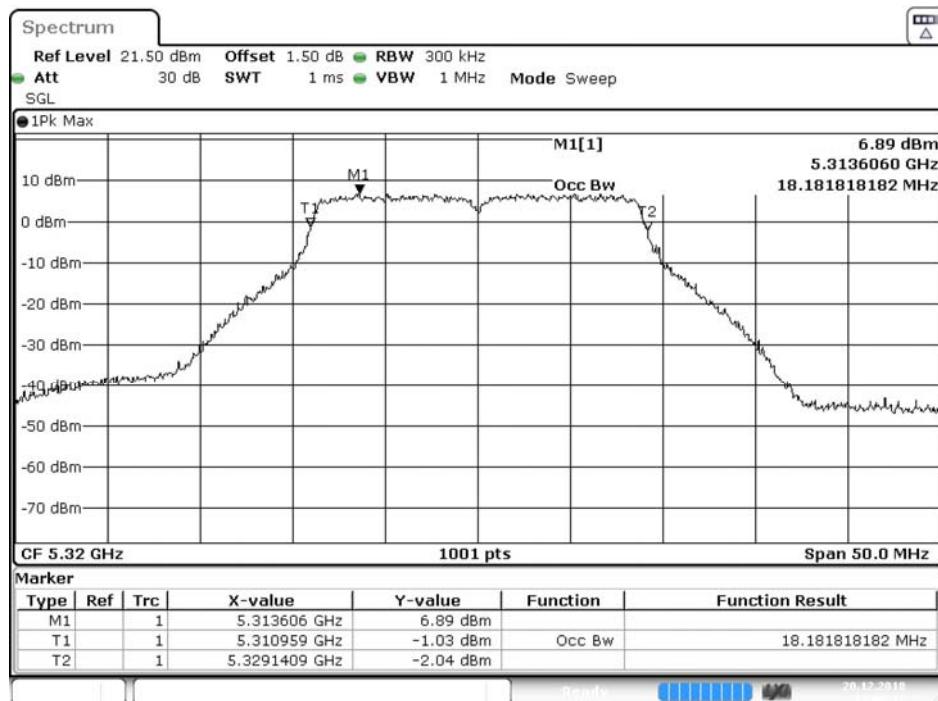


Date: 20.DEC.2018 14:05:03

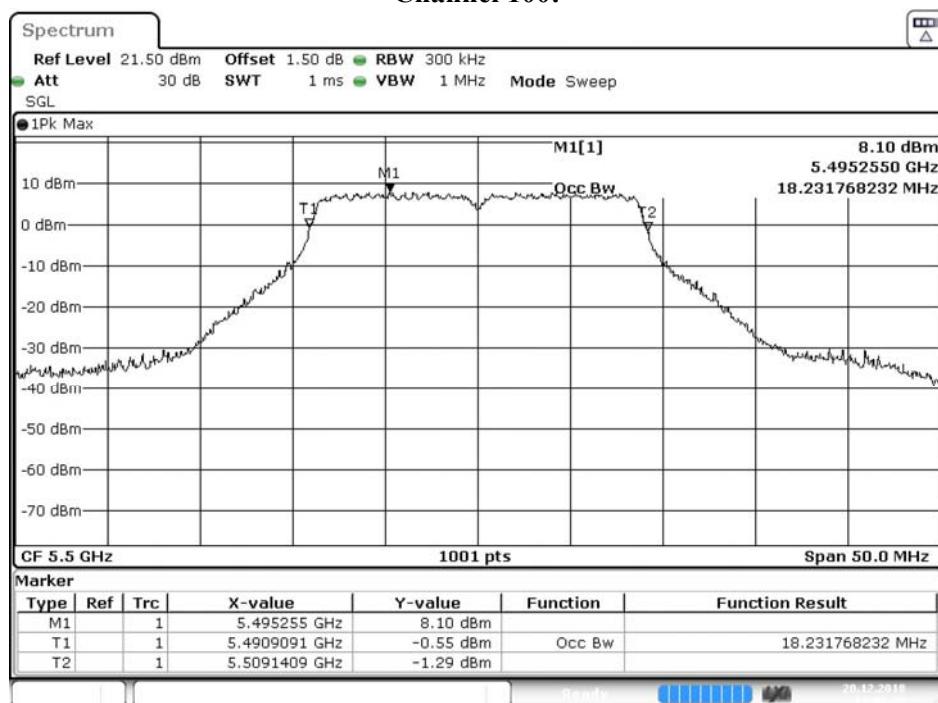
Channel 56:



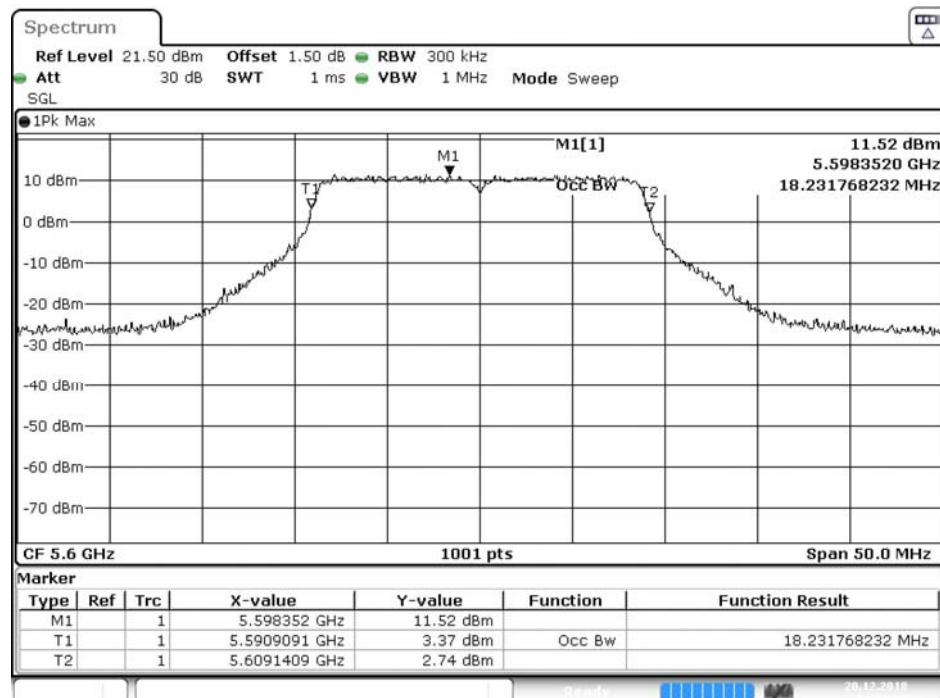
Date: 20.DEC.2018 14:05:34

Channel 64:

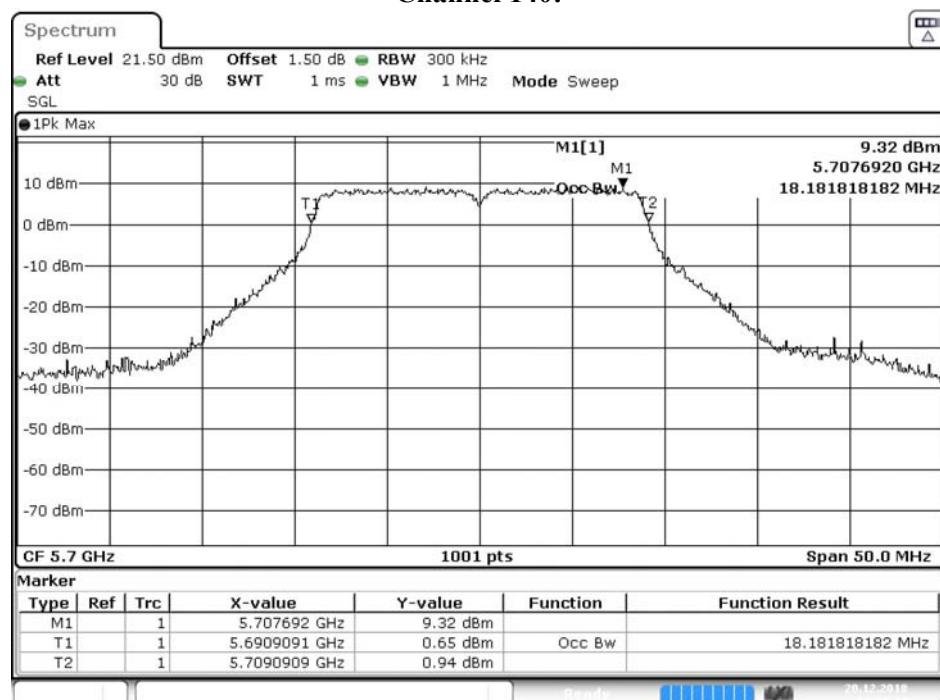
Date: 20.DEC.2018 14:06:13

Channel 100:

Date: 20.DEC.2018 14:06:51

Channel 120:

Date: 20.DEC.2018 14:07:35

Channel 140:

Date: 20.DEC.2018 14:08:15

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW_15Mbps)

Cable loss=1.5dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	17.25	--	--	--	--	--	--	--	<24dBm
46	5230	18.77	18.75	18.72	18.69	18.64	18.62	18.58	18.55	<24dBm
54	5270	17.69	--	--	--	--	--	--	--	<24dBm
62	5310	13.68	13.66	13.63	13.57	13.55	13.51	13.49	13.45	<24dBm
102	5510	16.33	--	--	--	--	--	--	--	<24dBm
118	5590	19.86	19.85	19.82	19.77	19.75	19.71	19.68	19.66	<24dBm
134	5670	17.21	--	--	--	--	--	--	--	<24dBm
151	5755	18.59	--	--	--	--	--	--	--	<30dBm
159	5795	19.41	19.39	19.36	19.34	19.28	19.25	19.21	19.17	<30dBm

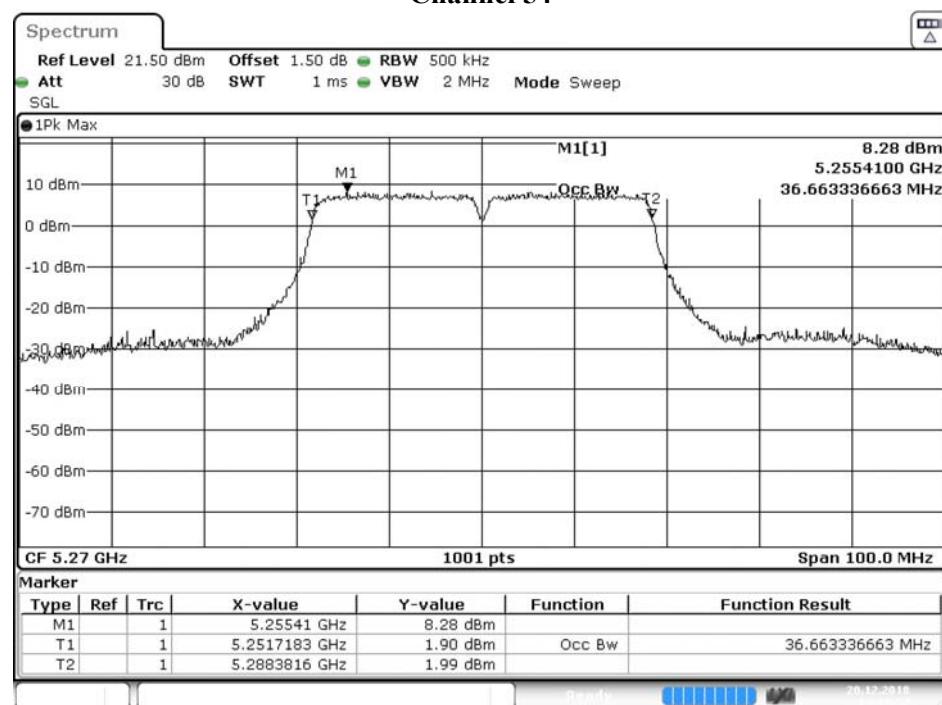
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
38	5190	--	17.25	24	--	Pass
46	5230	--	18.77	24	--	Pass
54	5270	36.663	17.69	24	26.64	Pass
62	5310	36.563	13.68	24	26.63	Pass
102	5510	36.663	16.33	24	26.64	Pass
118	5590	36.663	19.86	24	26.64	Pass
134	5670	36.663	17.21	24	26.64	Pass
151	5755	--	18.59	30	--	Pass
159	5795	--	19.41	30	--	Pass

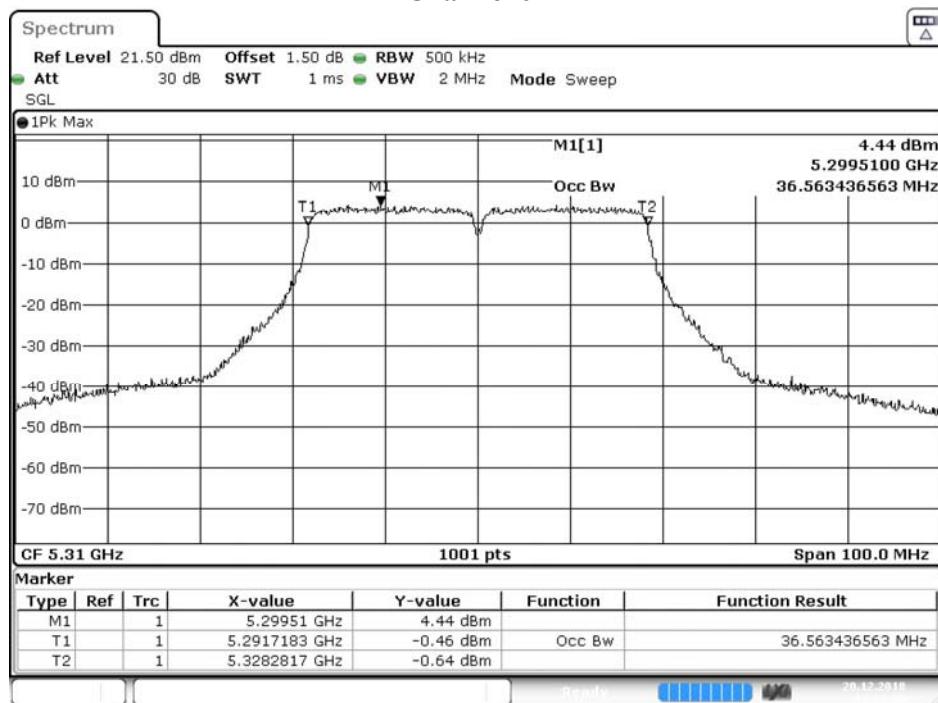
99% Occupied Bandwidth:

Channel 54



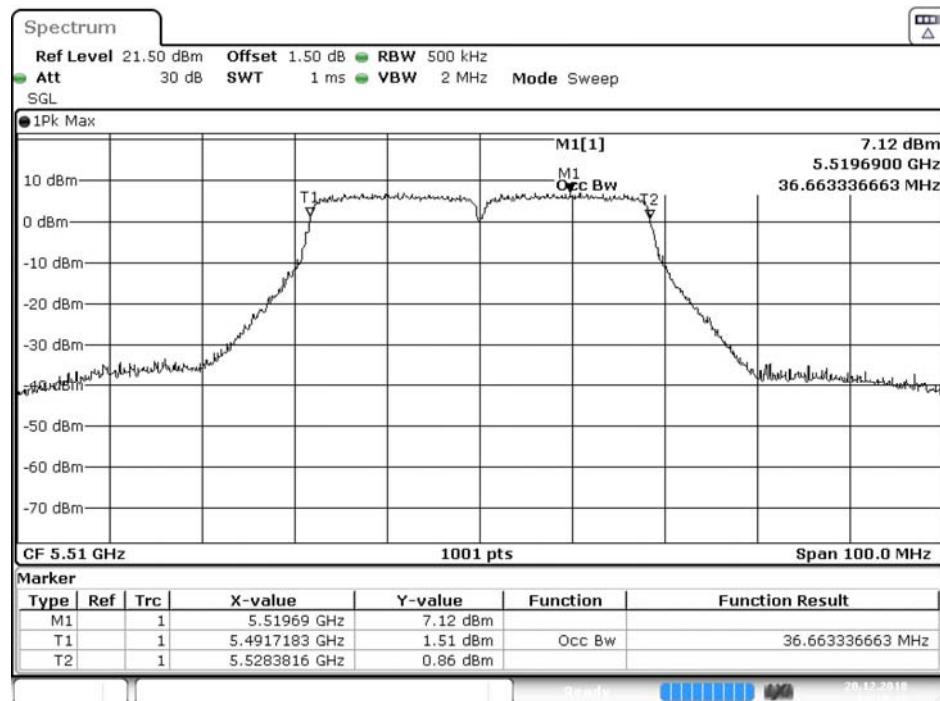
Date: 20.DEC.2018 14:08:58

Channel 62



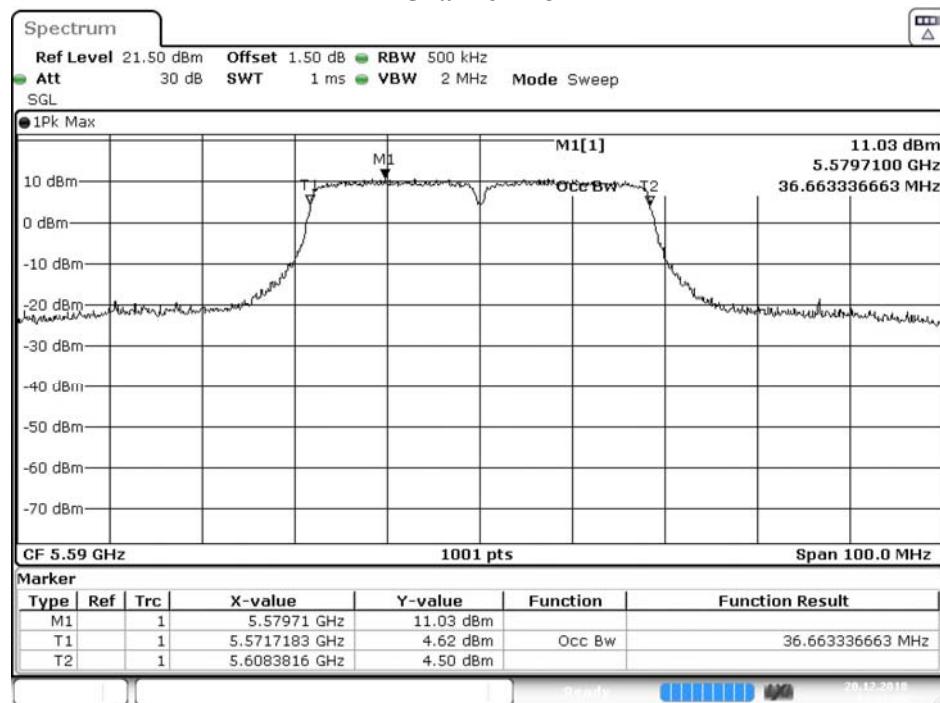
Date: 20.DEC.2018 14:09:39

Channel 102



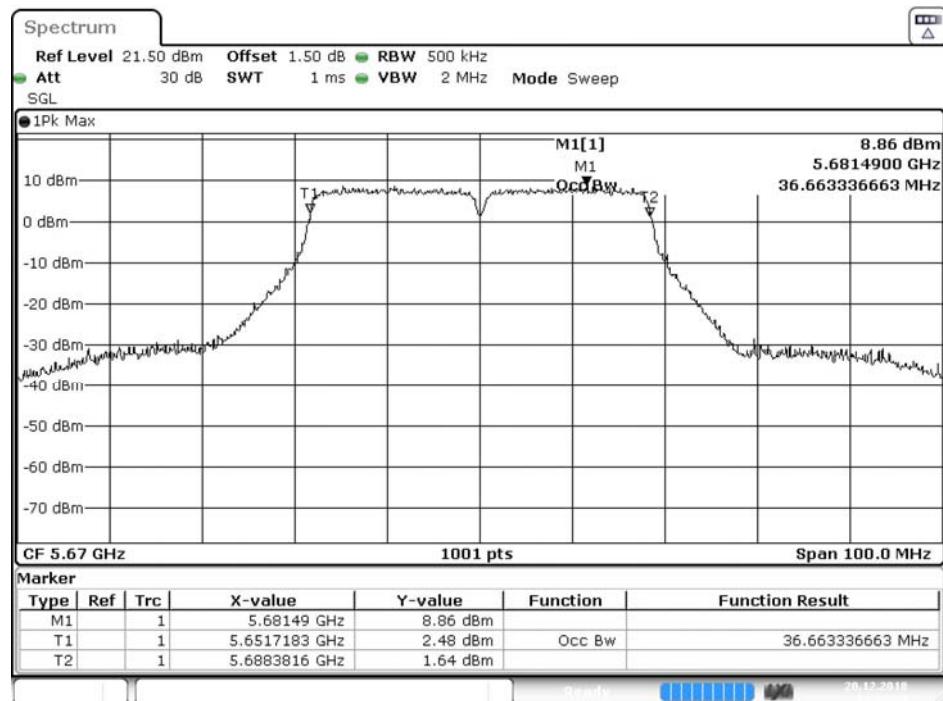
Date: 20.DEC.2018 14:10:16

Channel 118



Date: 20.DEC.2018 14:11:50

Channel 134



Date: 20.DEC.2018 14:12:34

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-20BW_7.2Mbps)

Cable loss=1.5dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit	
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7		
		Measurement Level (dBm)									
144(U-NII-2C)	5720	18.25	18.21	18.19	18.15	18.11	18.08	18.04	18.02	17.98	<24dBm
144(U-NII-3)	5720	12.77	12.75	12.72	12.68	12.65	12.63	12.58	12.55	12.52	<30dBm

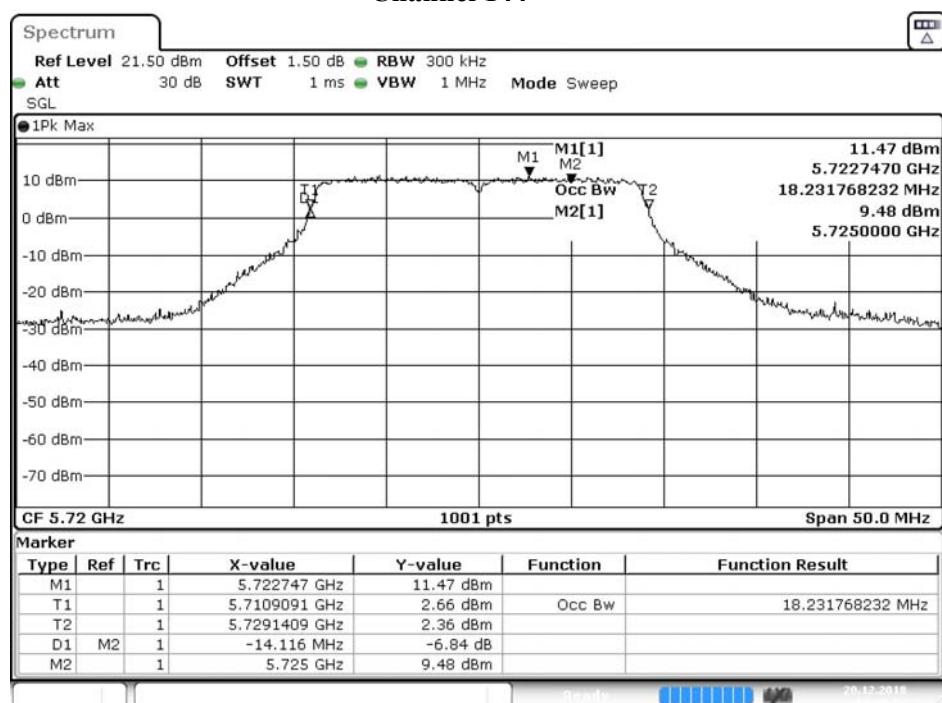
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

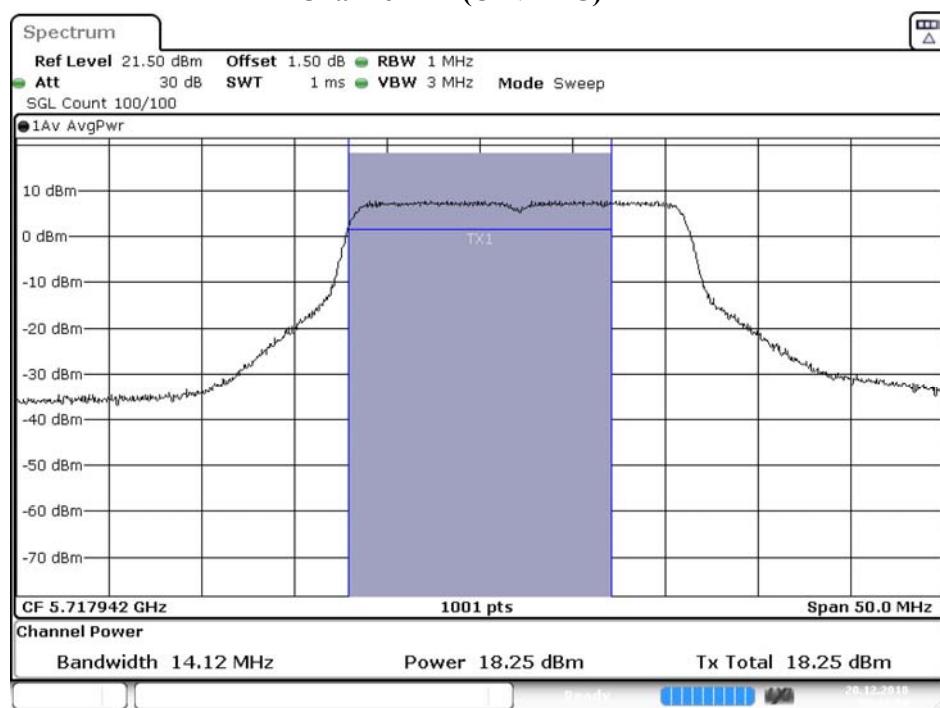
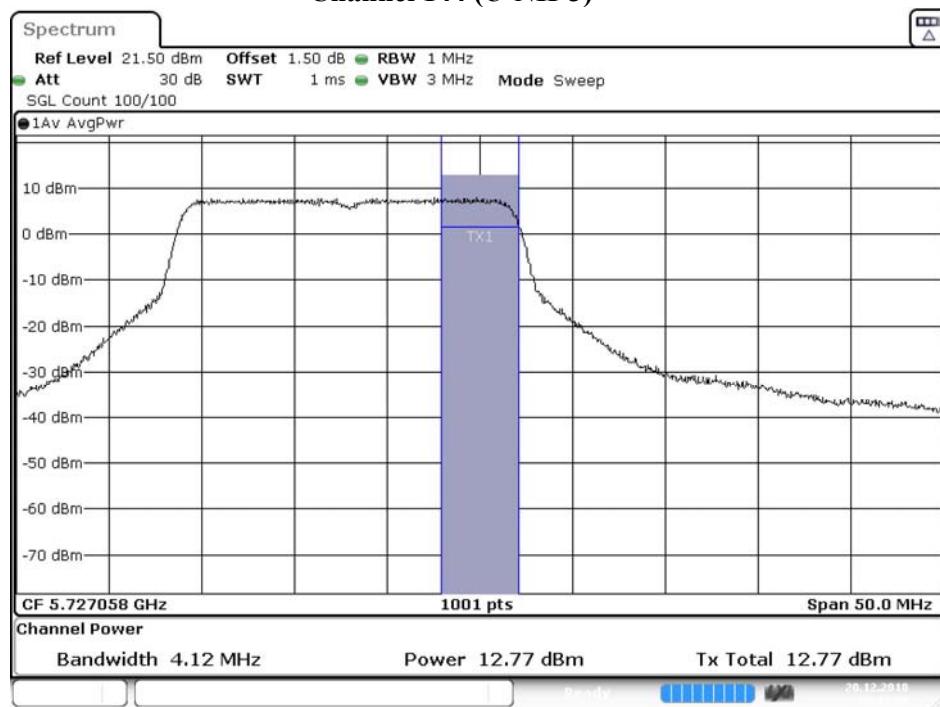
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm) + 10log(BW)	
144(U-NII-2C)	5720	14.116	18.25	24	22.50	Pass
144(U-NII-3)	5720	--	12.77	30	--	Pass

99% Occupied Bandwidth:

Channel 144



Maximum conducted output power:**Channel 144 (U-NII-2C)****Maximum conducted output power:
Channel 144 (U-NII-3)**

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-40BW_15Mbps)

Cable loss=1.5dB		Average Power										
Channel No.	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
142(U-NII-2C)	5710	18.28	18.26	18.22	18.19	18.17	18.13	18.08	18.05	18.02	17.98	<24dBm
142(U-NII-3)	5710	8.14	8.11	8.08	8.05	8.01	7.98	7.96	7.95	7.86	7.84	<30dBm

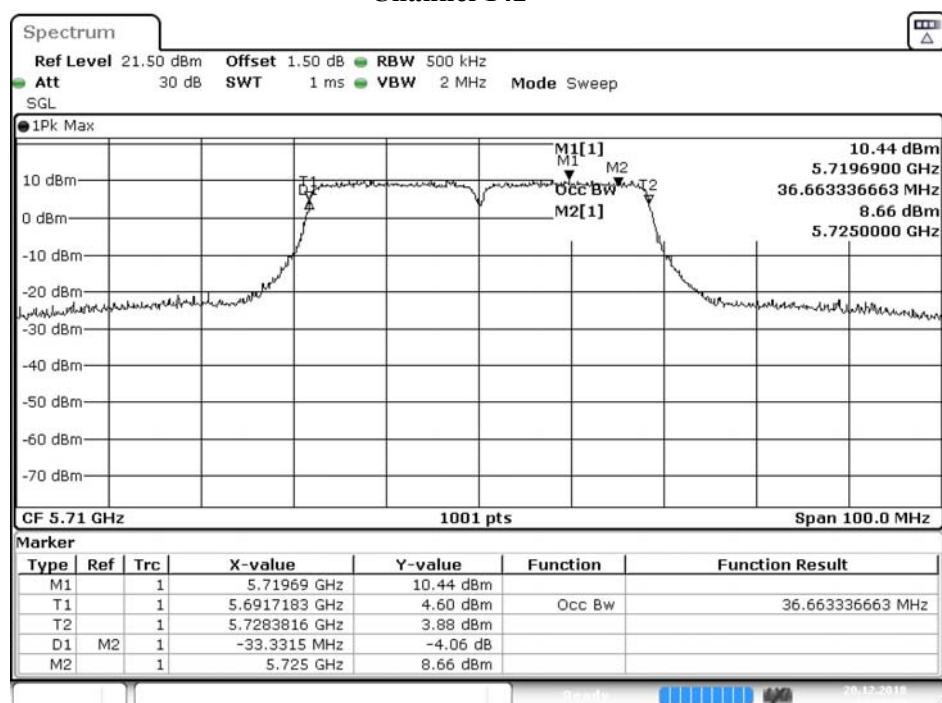
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

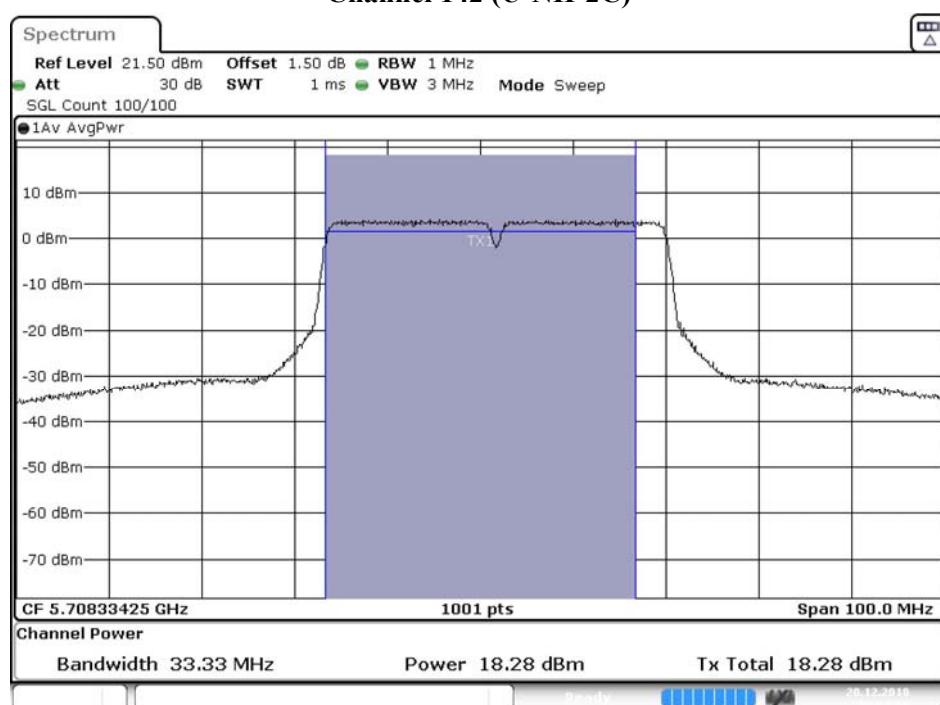
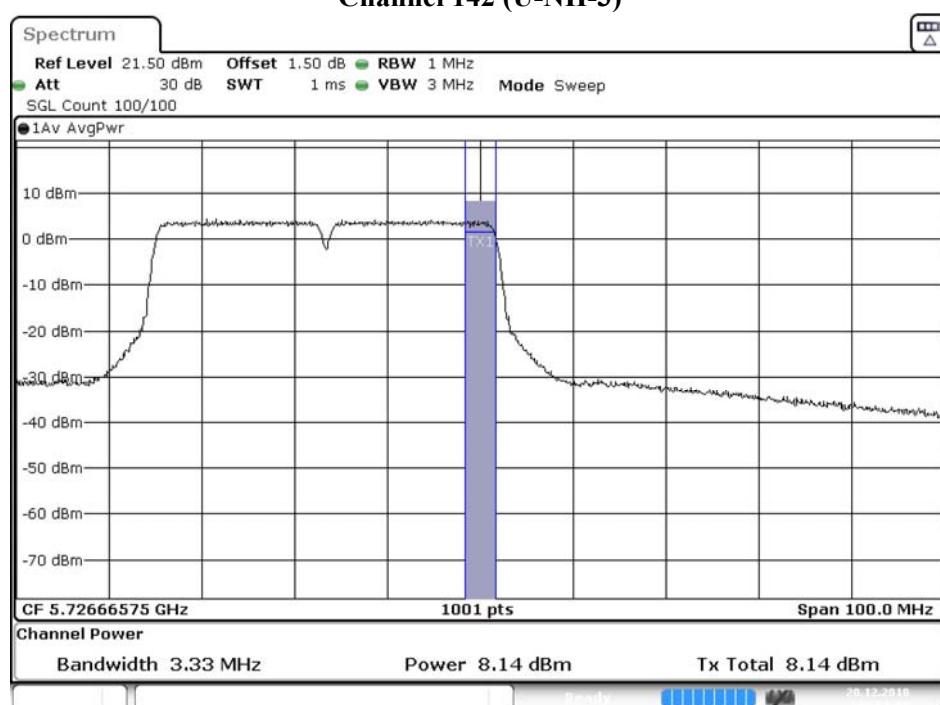
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm+10log(BW))	
142(U-NII-2C)	5710	33.331	18.28	24	26.23	Pass
142(U-NII-3)	5710	--	8.14	30	--	Pass

99% Occupied Bandwidth:

Channel 142



Maximum conducted output power:**Channel 142 (U-NII-2C)****Maximum conducted output power:
Channel 142 (U-NII-3)**

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW_32.5Mbps)

Cable loss=1.5dB		Average Power										Required Limit
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.11	17.09	17.06	17.03	16.98	16.95	16.92	16.86	16.84	16.82	<24dBm
58	5290	14.79	14.75	14.72	14.68	14.64	14.61	14.59	14.55	14.52	14.48	<24dBm
106	5530	16.69	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	19.75	19.72	19.69	19.66	19.62	19.59	19.56	19.52	19.48	19.43	<24dBm
138(U-NII-2C)	5690	19.61	--	--	--	--	--	--	--	--	--	<24dBm
138(U-NII-3)	5690	2.33	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	18.2	18.19	18.16	18.14	18.08	18.04	18.01	17.98	17.95	17.93	<30dBm

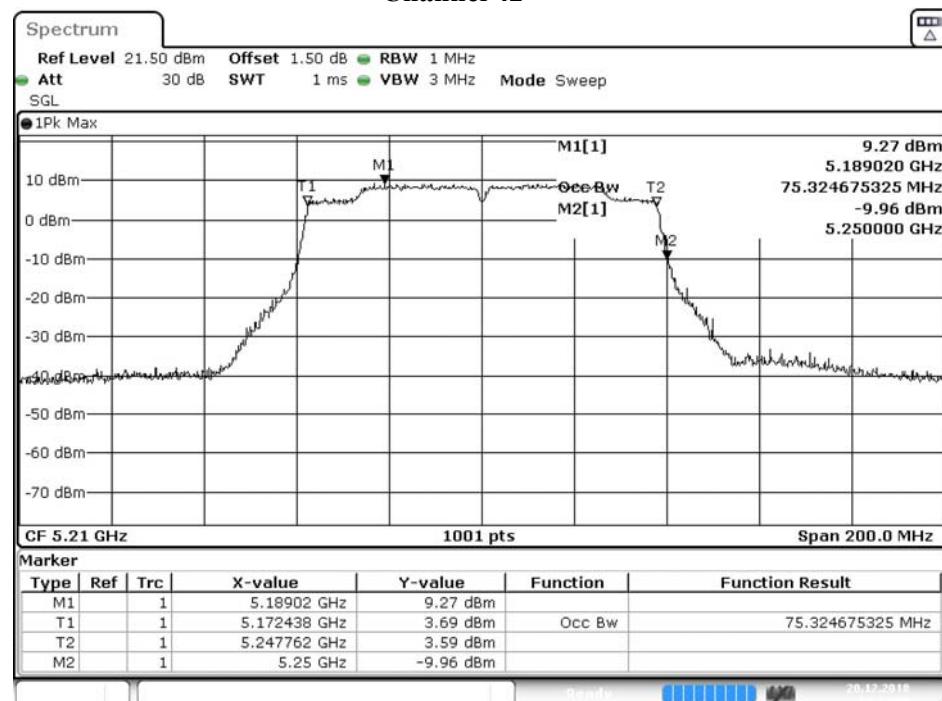
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm) + 10log(BW)	
42	5210	--	17.11	24	--	Pass
58	5290	74.925	14.79	24	29.75	Pass
106	5530	75.324	16.69	24	29.77	Pass
122	5610	75.324	19.75	24	29.77	Pass
138(U-NII-2C)	5690	72.663	19.61	24	29.61	Pass
138(U-NII-3)	5690	--	2.33	30	--	Pass
155	5775	--	18.20	30	--	Pass

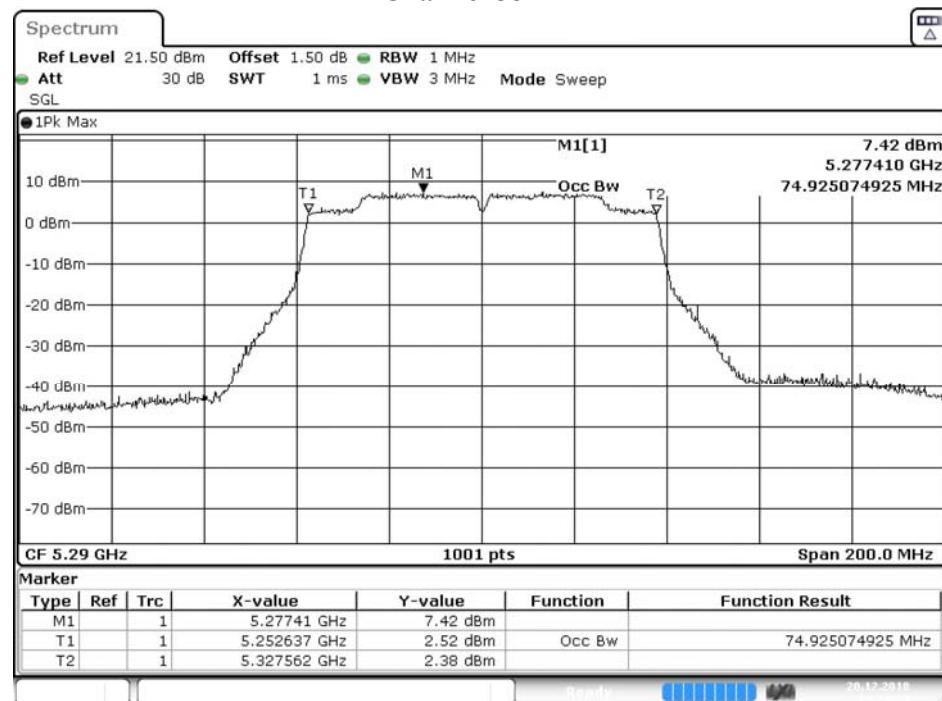
99% Occupied Bandwidth:

Channel 42



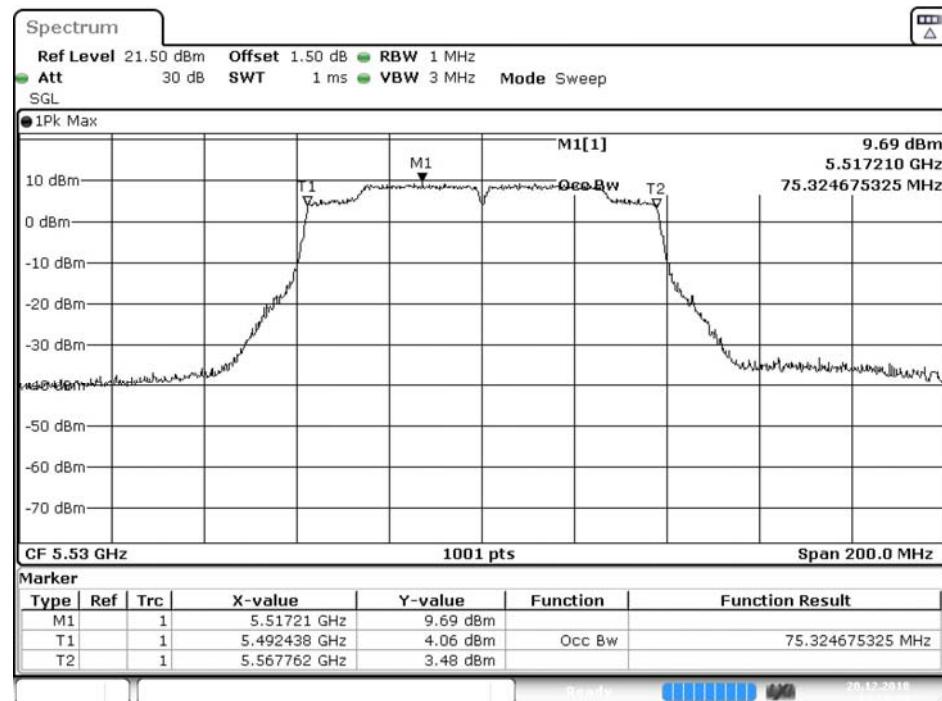
Date: 20.DEC.2018 13:52:05

Channel 58

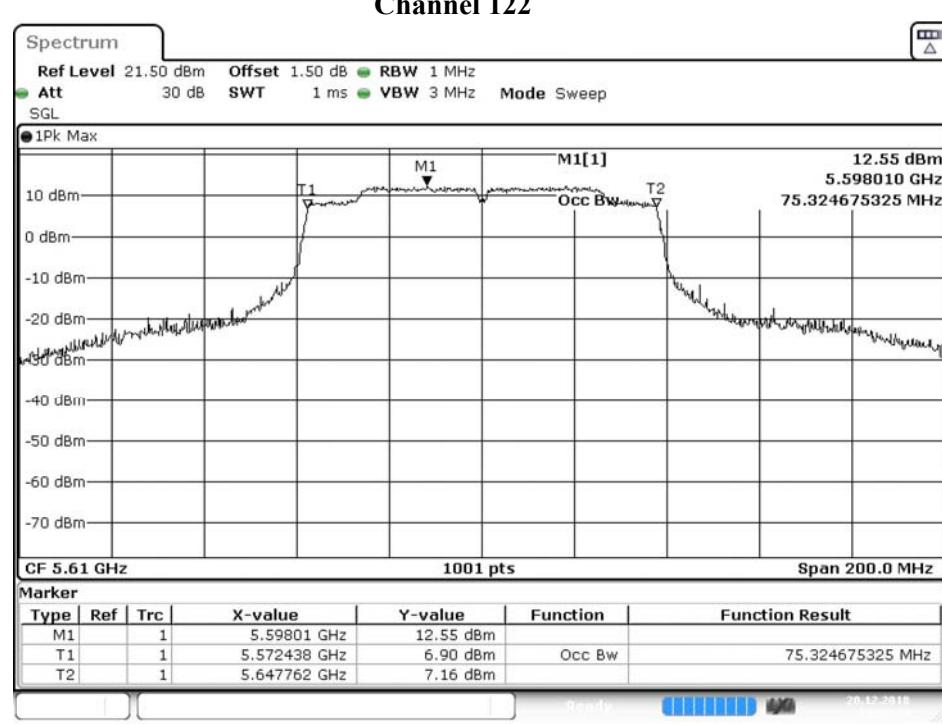


Date: 20.DEC.2018 13:54:25

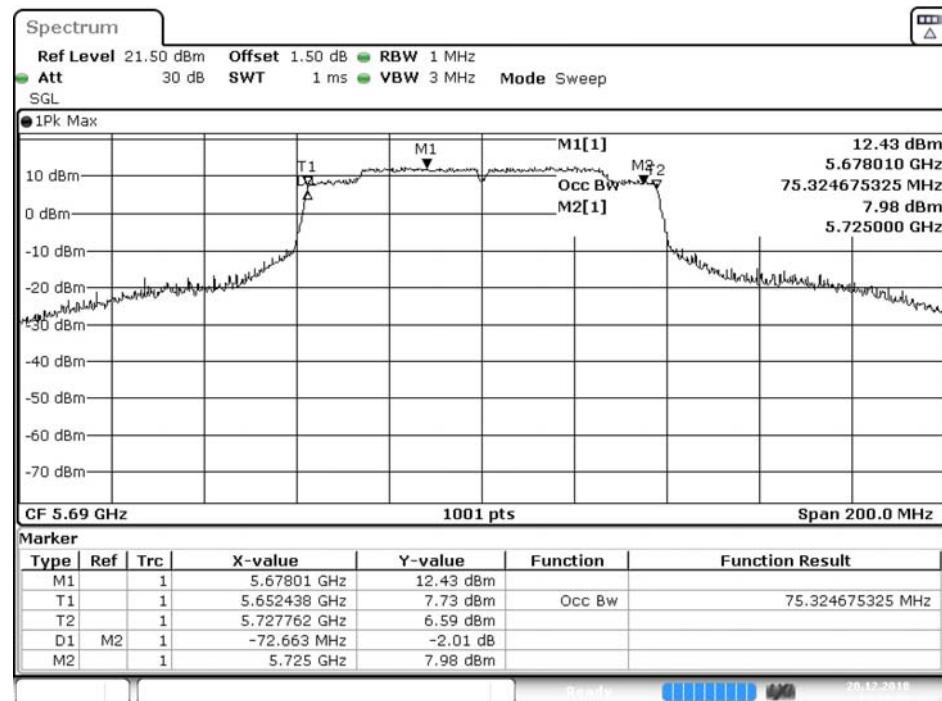
Channel 106



Channel 122

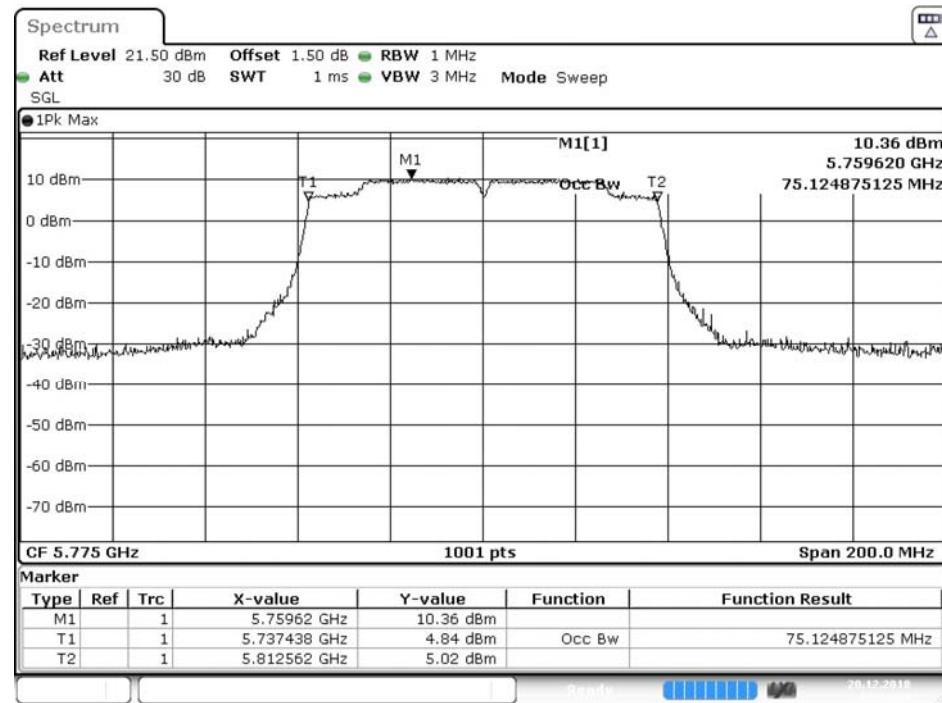


Channel 138

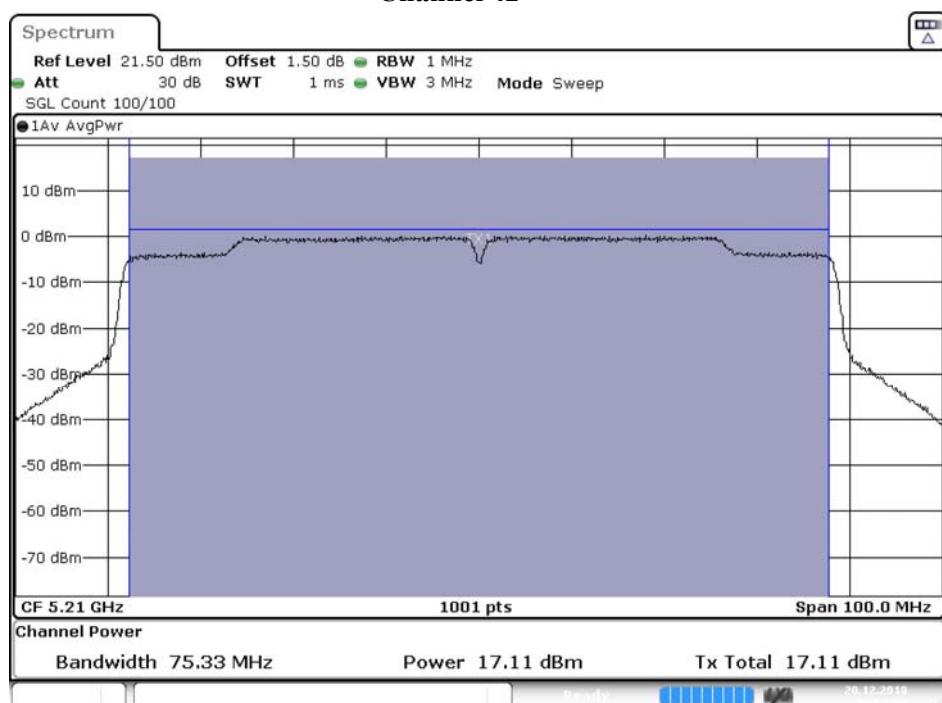
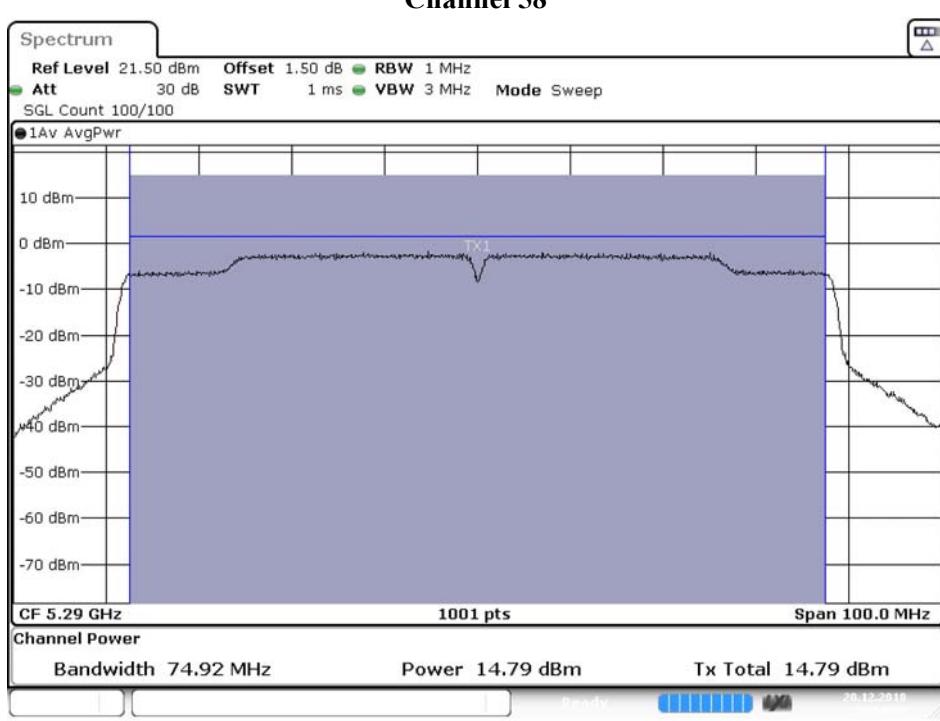


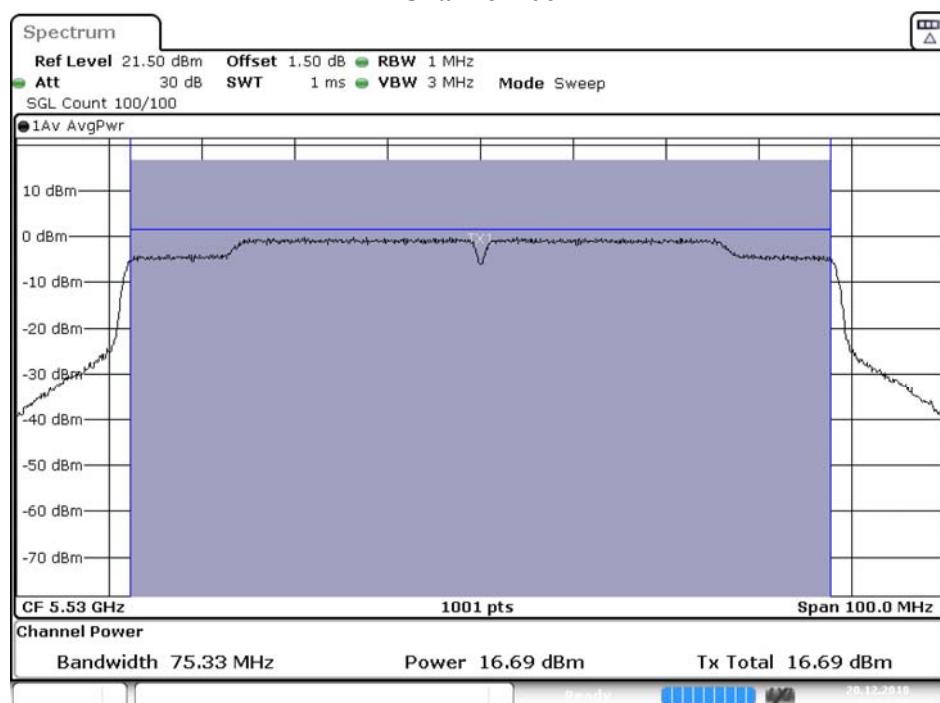
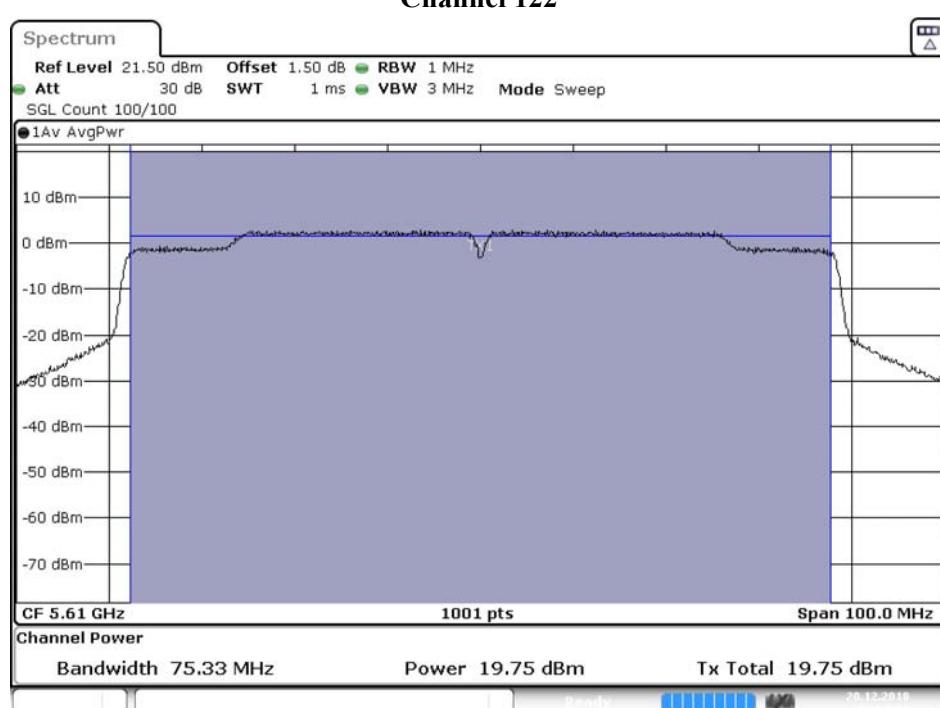
Date: 20.DEC.2018 13:57:57

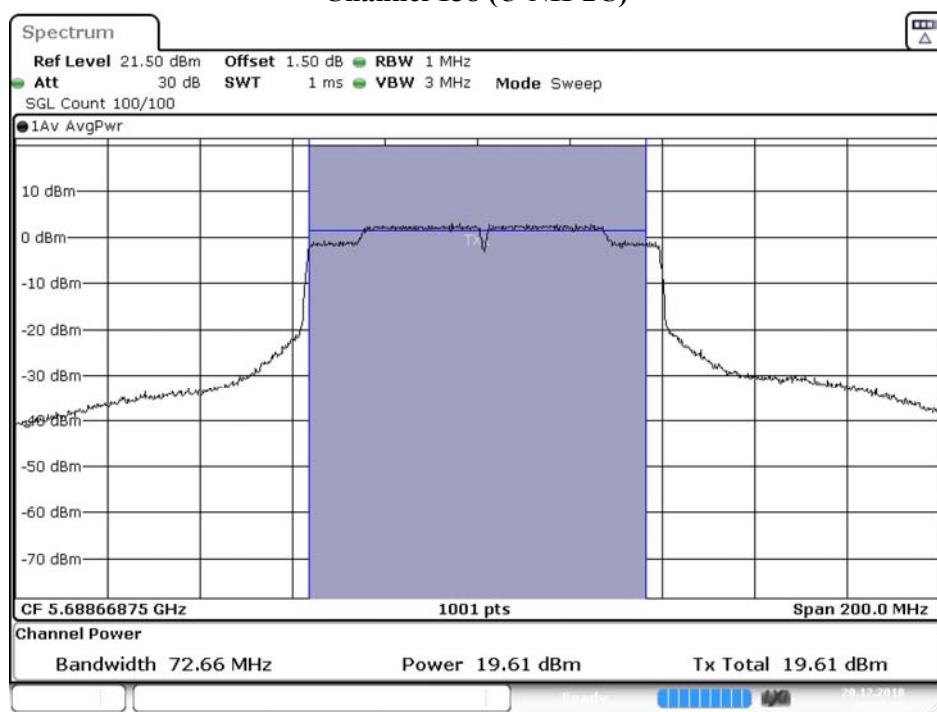
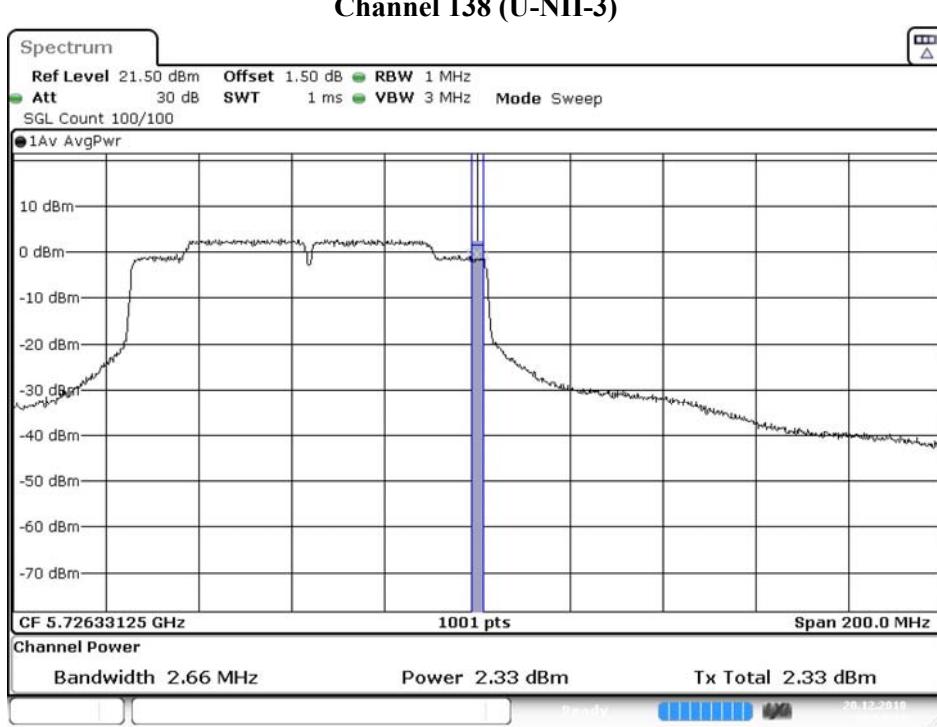
Channel 155

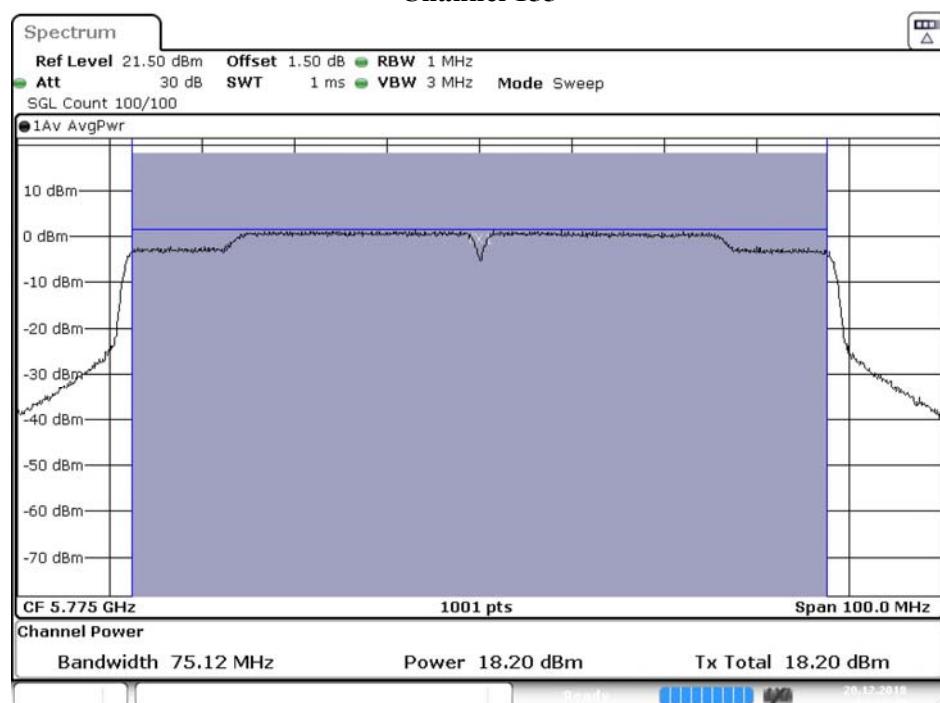


Date: 20.DEC.2018 14:13:24

Maximum conducted output power:**Channel 42****Maximum conducted output power:****Channel 58**

Maximum conducted output power:**Channel 106****Maximum conducted output power:****Channel 122**

Maximum conducted output power:
Channel 138 (U-NII-2C)

Maximum conducted output power:
Channel 138 (U-NII-3)


Maximum conducted output power:**Channel 155**

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-160BW_65Mbps)

Cable loss=1.5dB		Average Power									
Channel No	Frequency (MHz)	Data Rate (Mbps)									
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9
50(U-NII-1)	5250	10.13	10.11	10.08	10.05	10.01	9.99	9.95	9.93	9.87	9.85
50(U-NII-2A)	5250	9.02	8.97	8.95	8.93	8.88	8.84	8.81	8.78	8.75	8.72
114	5570	14.27	14.25	14.21	14.18	14.15	14.1	14.08	14.05	14.02	13.96

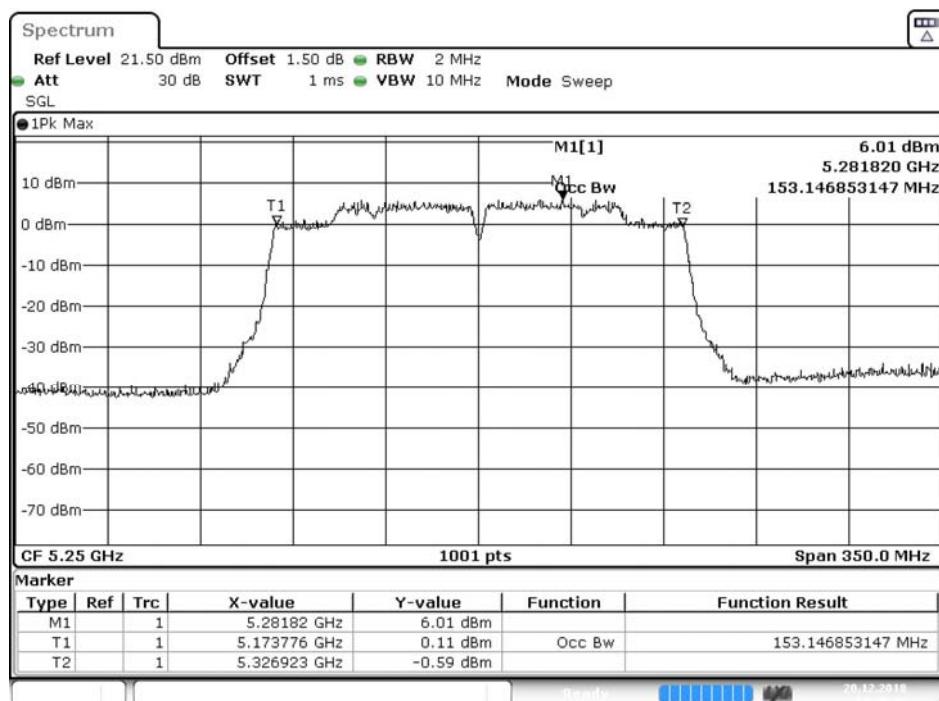
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm+10log(BW))	
50(U-NII-1)	5250	--	10.13	24	--	Pass
50(U-NII-2A)	5250	76.573	9.02	24	29.84	Pass
114	5570	152.797	14.27	24	32.84	Pass

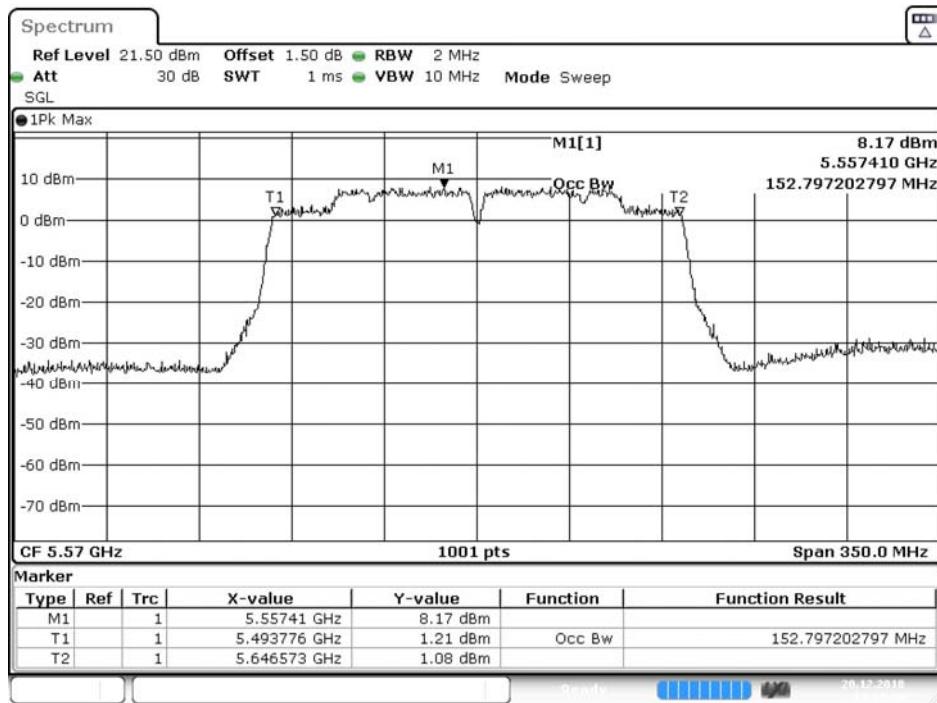
99% Occupied Bandwidth:

Channel 50

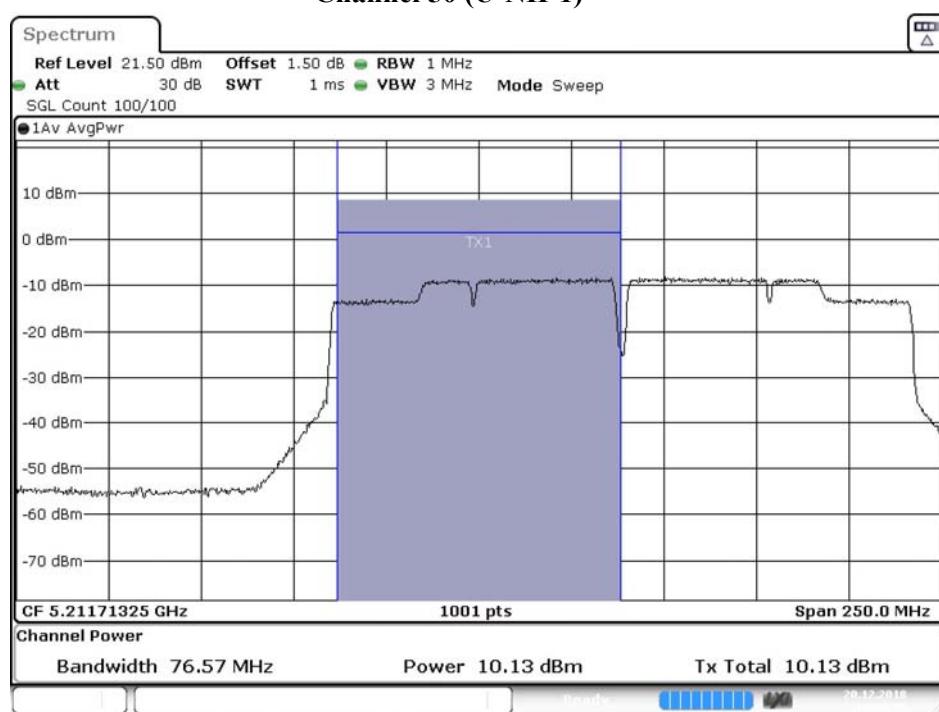
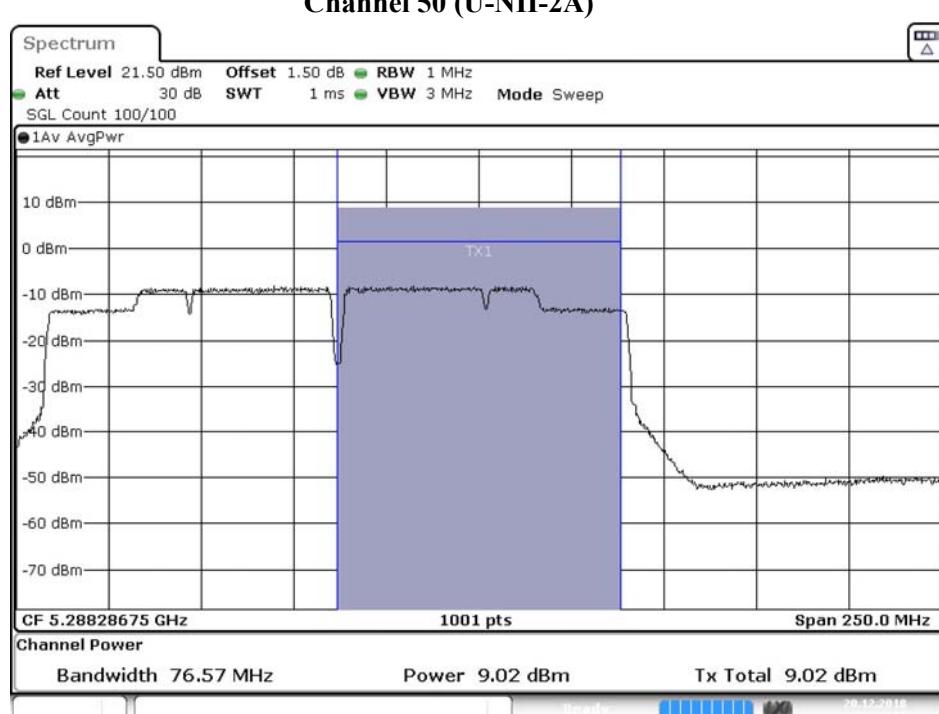


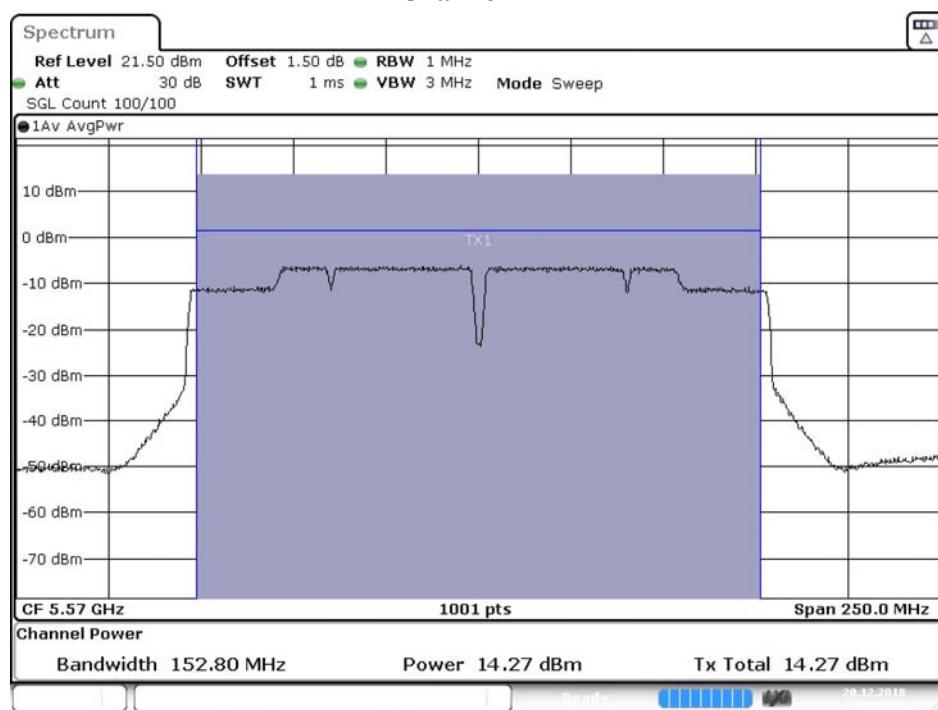
Date: 20.DEC.2018 13:45:42

Channel 114



Date: 20.DEC.2018 13:47:28

Maximum conducted output power:**Channel 50 (U-NII-1)****Maximum conducted output power:****Channel 50 (U-NII-2A)**

Maximum conducted output power:**Channel 114**

Date: 20.DEC.2018 13:47:51

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11a_6Mbps)

Cable loss=1.5dB		Average Power									Required Limit
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		6	9	12	18	24	36	48	54		
Measurement Level (dBm)											
36	5180	18.24	--	--	--	--	--	--	--	<24dBm	
40	5200	19.71	19.69	19.66	19.63	19.58	19.56	19.53	19.48	<24dBm	
48	5240	19.75	--	--	--	--	--	--	--	<24dBm	
52	5260	19.78	--	--	--	--	--	--	--	<24dBm	
56	5280	19.77	19.75	19.71	19.69	19.66	19.62	19.58	19.55	<24dBm	
64	5320	15.84	--	--	--	--	--	--	--	<24dBm	
100	5500	16.18	--	--	--	--	--	--	--	<24dBm	
120	5600	19.86	19.84	19.81	19.78	19.75	19.72	19.69	19.66	<24dBm	
140	5700	17.68	--	--	--	--	--	--	--	<24dBm	
149	5745	19.87	--	--	--	--	--	--	--	<30dBm	
157	5785	19.87	19.85	19.81	19.79	19.75	19.71	19.67	19.65	<30dBm	
165	5825	19.71	--	--	--	--	--	--	--	<30dBm	

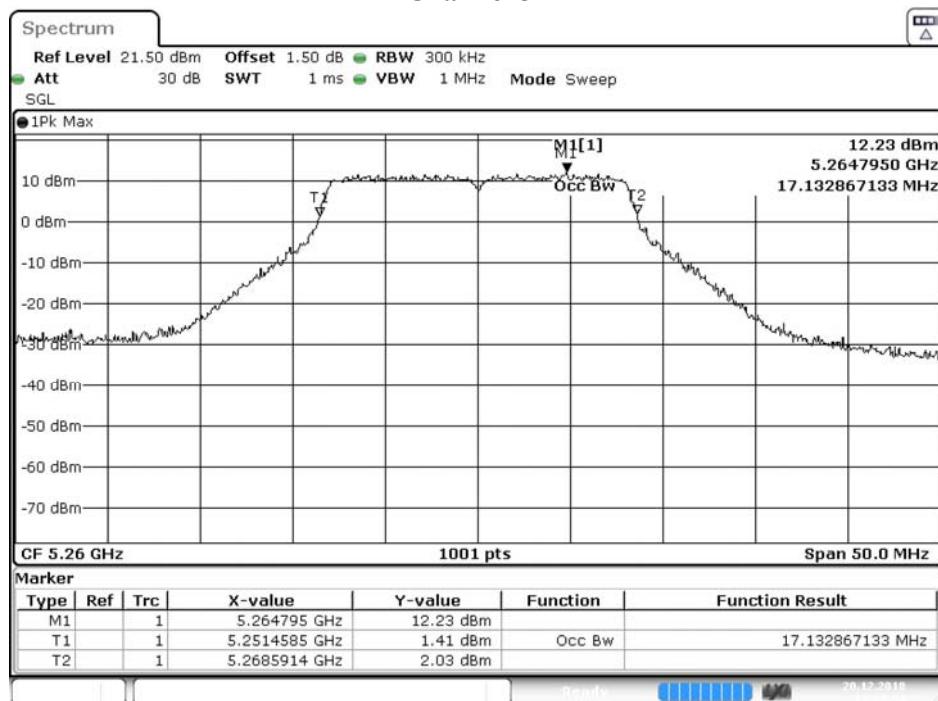
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
36	5180	--	18.24	24	--	Pass
40	5200	--	19.71	24	--	Pass
48	5240	--	19.75	24	--	Pass
52	5260	17.132	19.78	24	23.34	Pass
56	5280	17.082	19.77	24	23.33	Pass
64	5320	17.132	15.84	24	23.34	Pass
100	5500	17.132	16.18	24	23.34	Pass
120	5600	17.132	19.86	24	23.34	Pass
140	5700	17.132	17.68	24	23.34	Pass
149	5745	--	19.87	30	--	Pass
157	5785	--	19.87	30	--	Pass
165	5825	--	19.71	30	--	Pass

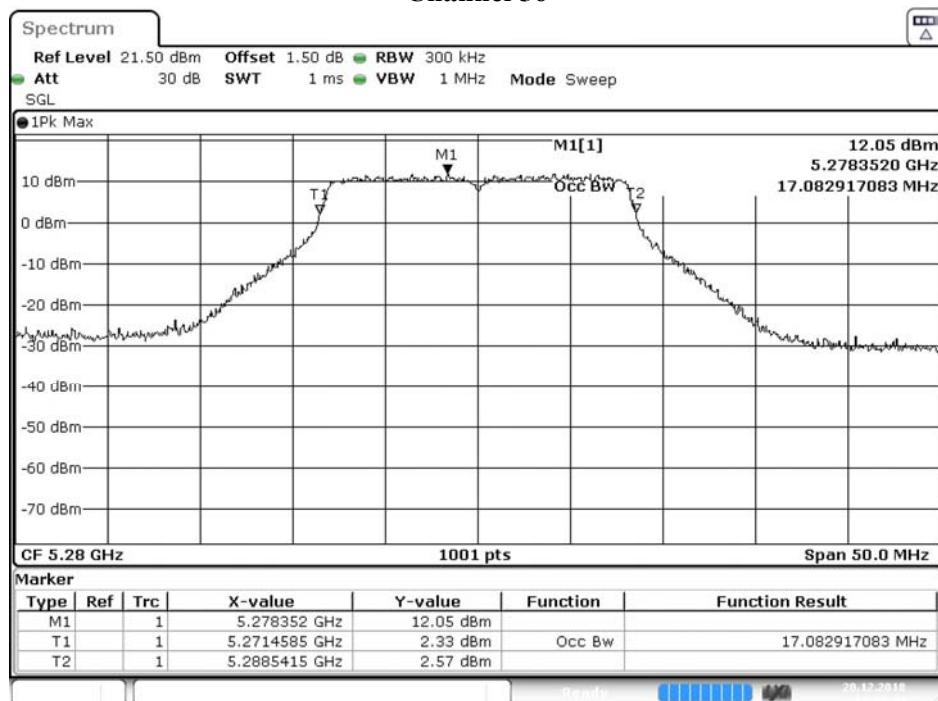
99% Occupied Bandwidth:

Channel 52



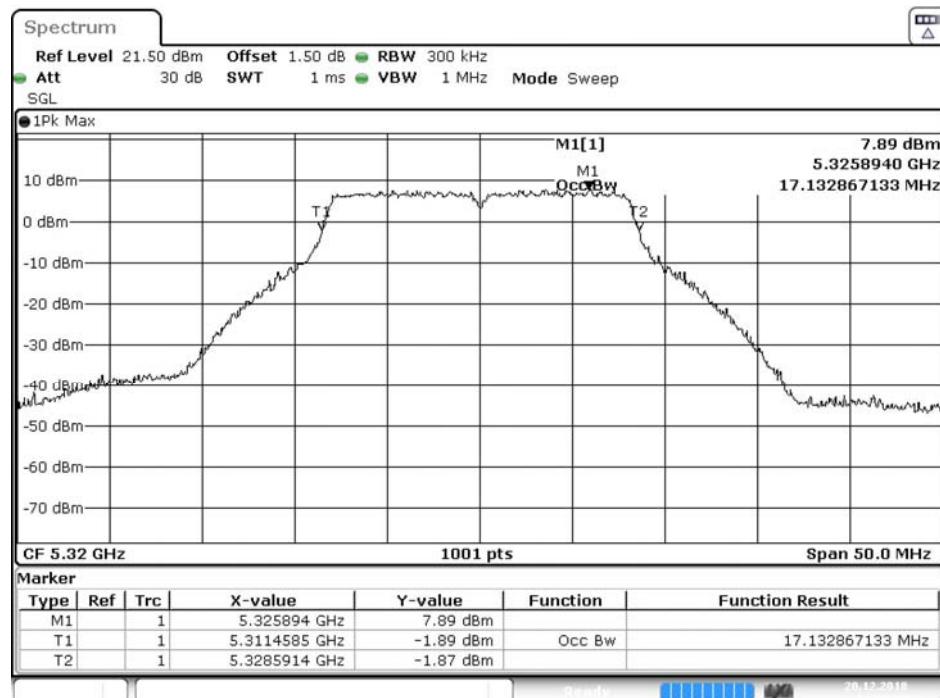
Date: 20.DEC.2018 14:18:54

Channel 56



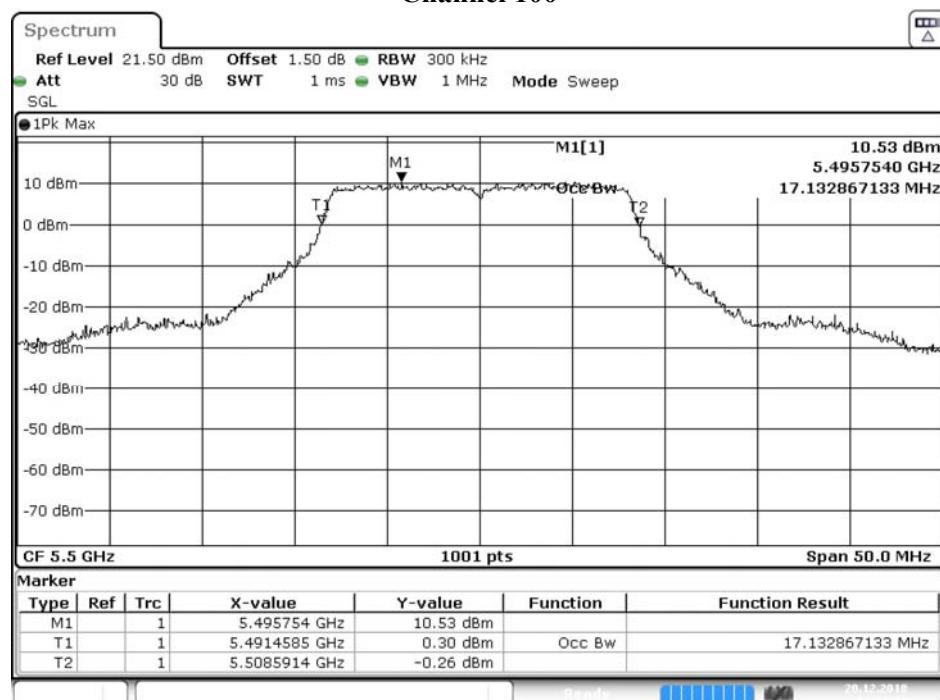
Date: 20.DEC.2018 14:19:45

Channel 64

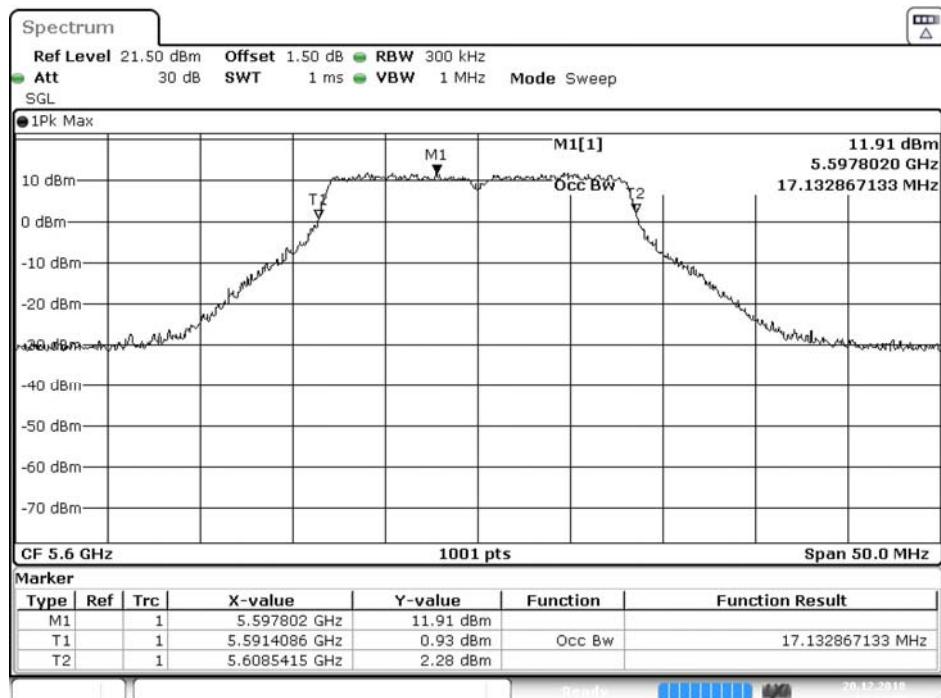


Date: 20.DEC.2018 14:20:28

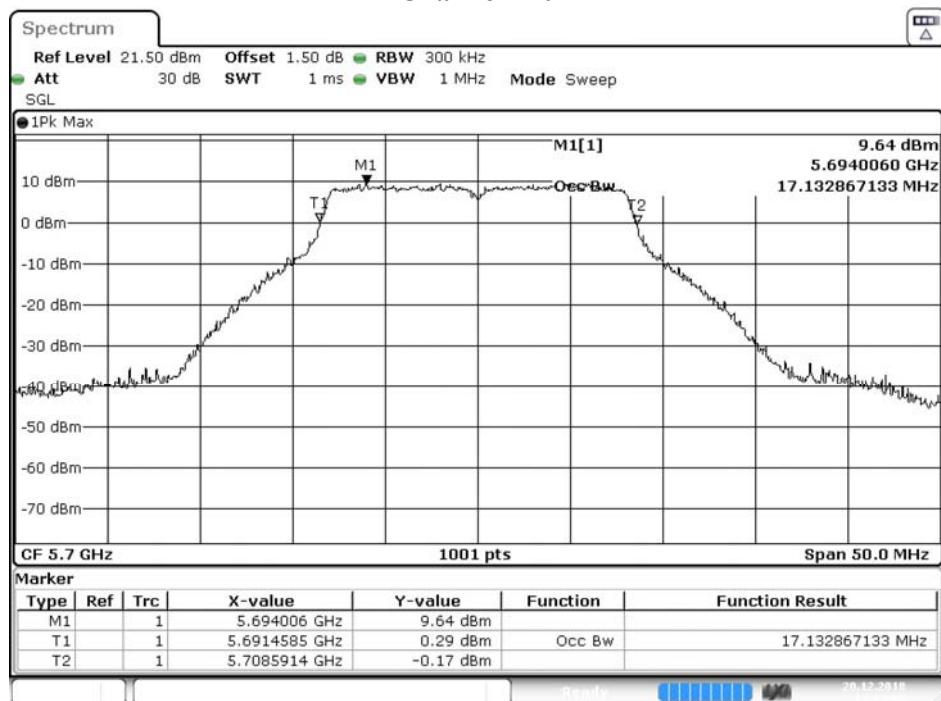
Channel 100



Date: 20.DEC.2018 14:21:18

Channel 120

Date: 20.DEC.2018 14:22:10

Channel 140

Date: 20.DEC.2018 14:22:51

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW_7.2Mbps)

Cable loss=1.5dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
		Measurement Level (dBm)								
36	5180	18.21	--	--	--	--	--	--	--	<24dBm
40	5200	19.75	19.71	19.69	19.65	19.63	19.58	19.55	19.52	<24dBm
48	5240	19.86	--	--	--	--	--	--	--	<24dBm
52	5260	19.74	--	--	--	--	--	--	--	<24dBm
56	5280	19.73	19.68	19.66	19.62	19.59	19.57	19.53	19.48	<24dBm
64	5320	15.85	--	--	--	--	--	--	--	<24dBm
100	5500	15.88	--	--	--	--	--	--	--	<24dBm
120	5600	19.65	19.61	19.58	19.56	19.53	19.47	19.45	19.43	<24dBm
140	5700	17.33	--	--	--	--	--	--	--	<24dBm
149	5745	19.71	--	--	--	--	--	--	--	<30dBm
157	5785	19.76	19.75	19.72	19.69	19.66	19.62	19.58	19.56	<30dBm
165	5825	19.74	--	--	--	--	--	--	--	<30dBm

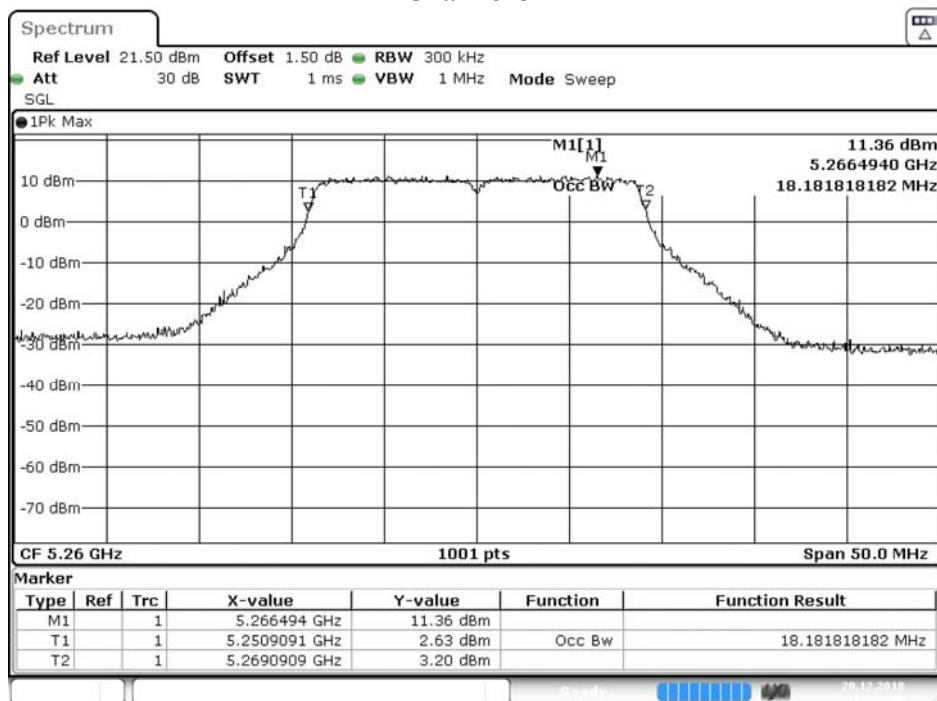
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
36	5180	--	18.21	24	--	Pass
40	5200	--	19.75	24	--	Pass
48	5240	--	19.86	24	--	Pass
52	5260	18.181	19.74	24	23.60	Pass
56	5280	18.181	19.73	24	23.60	Pass
64	5320	18.181	15.85	24	23.60	Pass
100	5500	18.181	15.88	24	23.60	Pass
120	5600	18.181	19.65	24	23.60	Pass
140	5700	18.131	17.33	24	23.58	Pass
149	5745	--	19.71	30	--	Pass
157	5785	--	19.76	30	--	Pass
165	5825	--	19.74	30	--	Pass

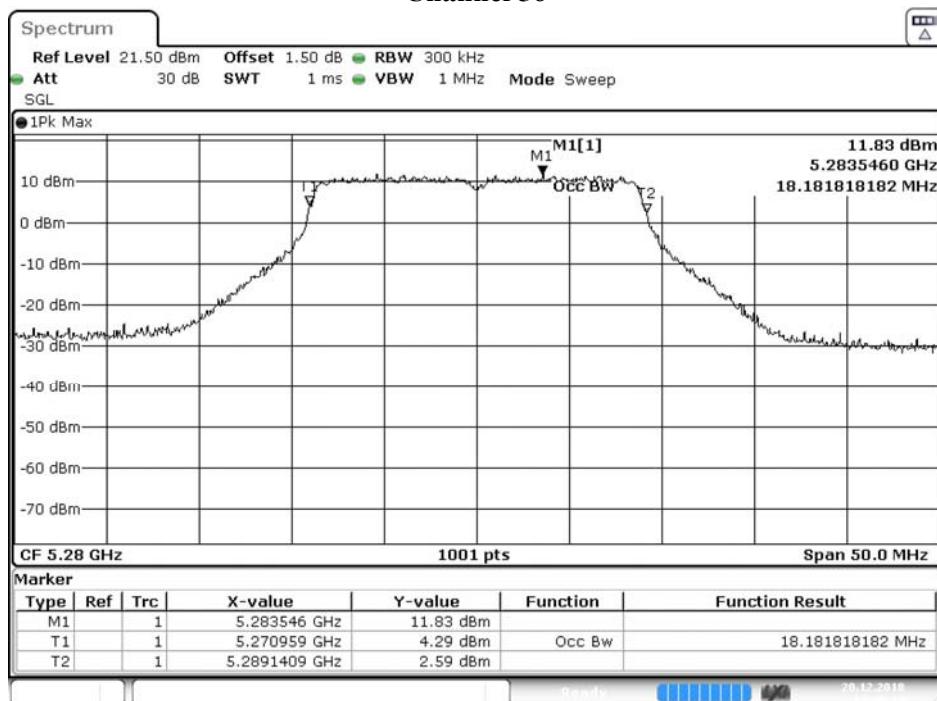
99% Occupied Bandwidth:

Channel 52



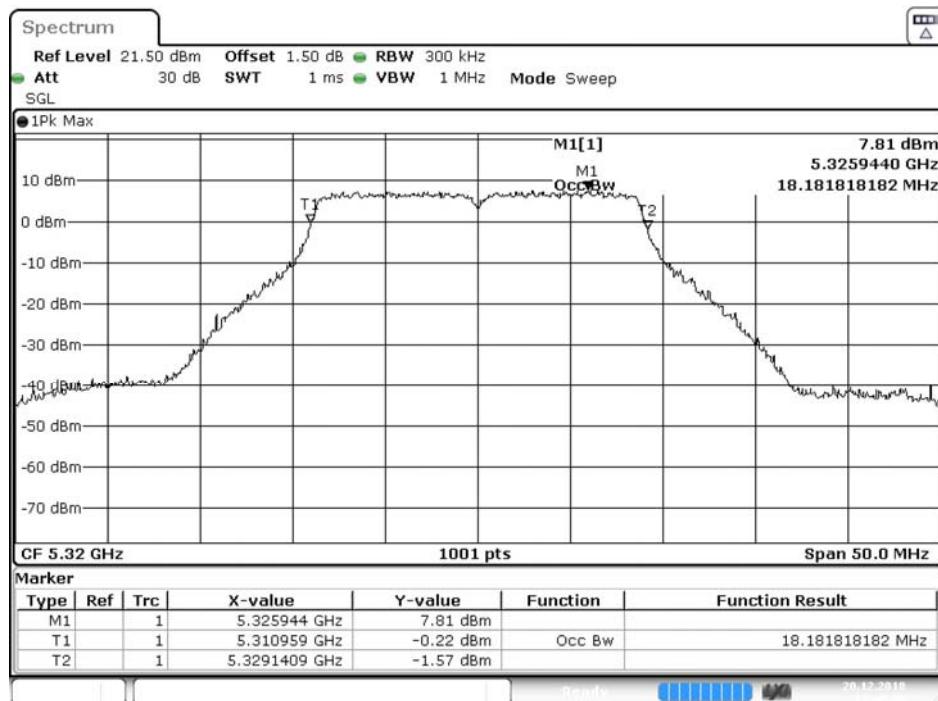
Date: 20.DEC.2018 14:39:46

Channel 56

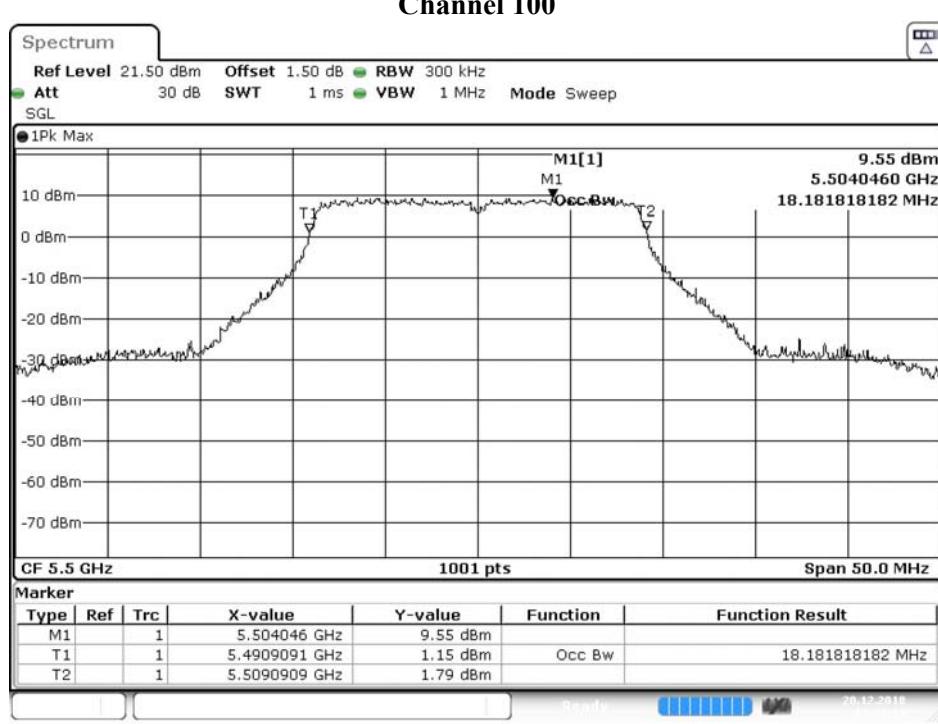


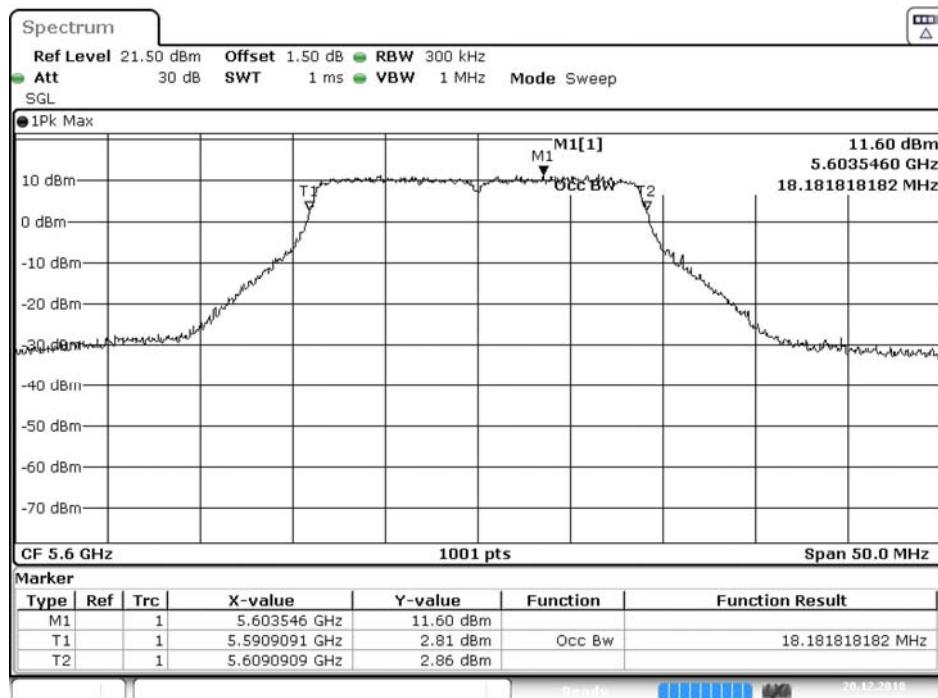
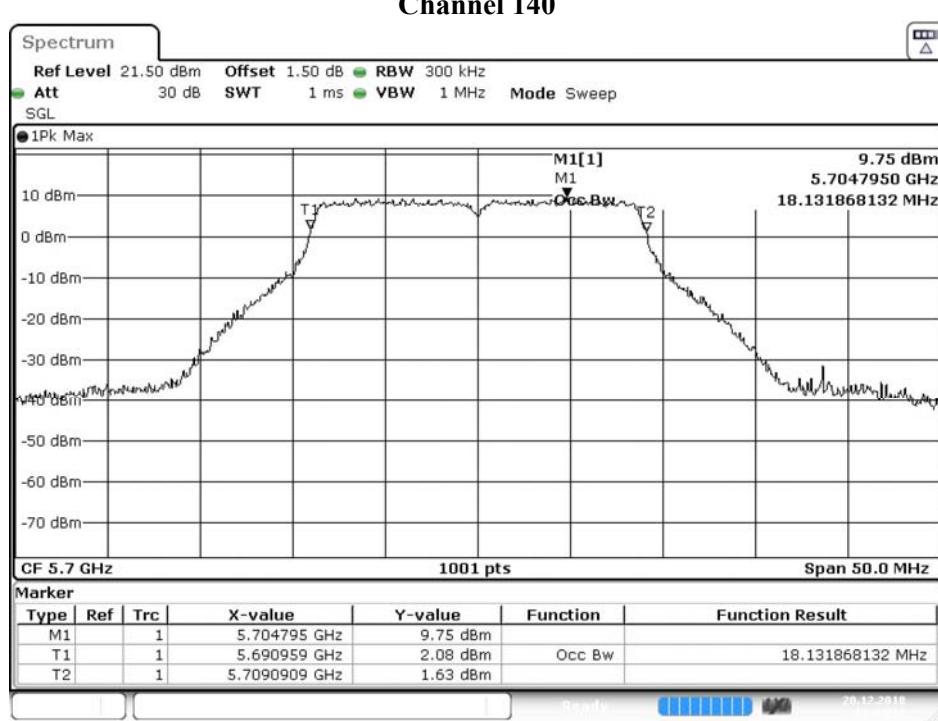
Date: 20.DEC.2018 14:40:20

Channel 64



Channel 100



Channel 120**Channel 140**

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW_15Mbps)

Cable loss=1.5dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	17.26	--	--	--	--	--	--	--	<24dBm
46	5230	18.31	18.29	18.26	18.23	18.18	18.15	18.12	18.08	<24dBm
54	5270	17.73	--	--	--	--	--	--	--	<24dBm
62	5310	13.75	13.73	13.71	13.69	13.65	13.62	13.58	13.55	<24dBm
102	5510	15.63	--	--	--	--	--	--	--	<24dBm
118	5590	19.56	19.53	19.51	19.48	19.45	19.41	19.38	19.36	<24dBm
134	5670	18.61	--	--	--	--	--	--	--	<24dBm
151	5755	17.69	--	--	--	--	--	--	--	<30dBm
159	5795	19.25	19.22	19.18	19.15	19.13	19.08	19.05	19.01	<30dBm

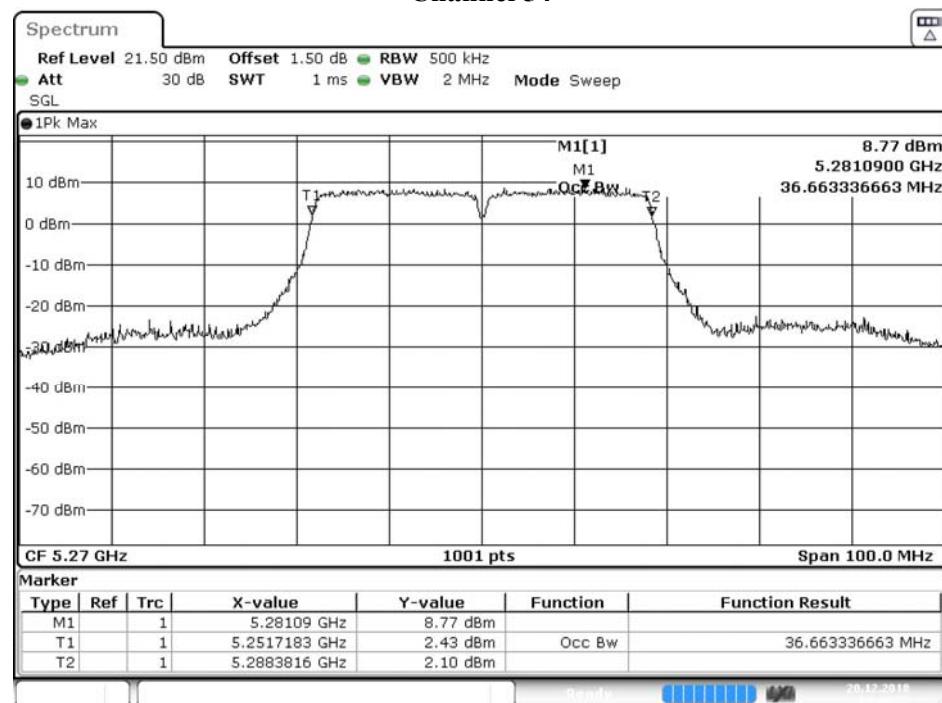
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
38	5190	--	17.26	24	--	Pass
46	5230	--	18.31	24	--	Pass
54	5270	36.663	17.73	24	26.64	Pass
62	5310	36.463	13.75	24	26.62	Pass
102	5510	36.663	15.63	24	26.64	Pass
118	5590	36.663	19.56	24	26.64	Pass
134	5670	36.563	18.61	24	26.63	Pass
151	5755	--	17.69	30	--	Pass
159	5795	--	19.25	30	--	Pass

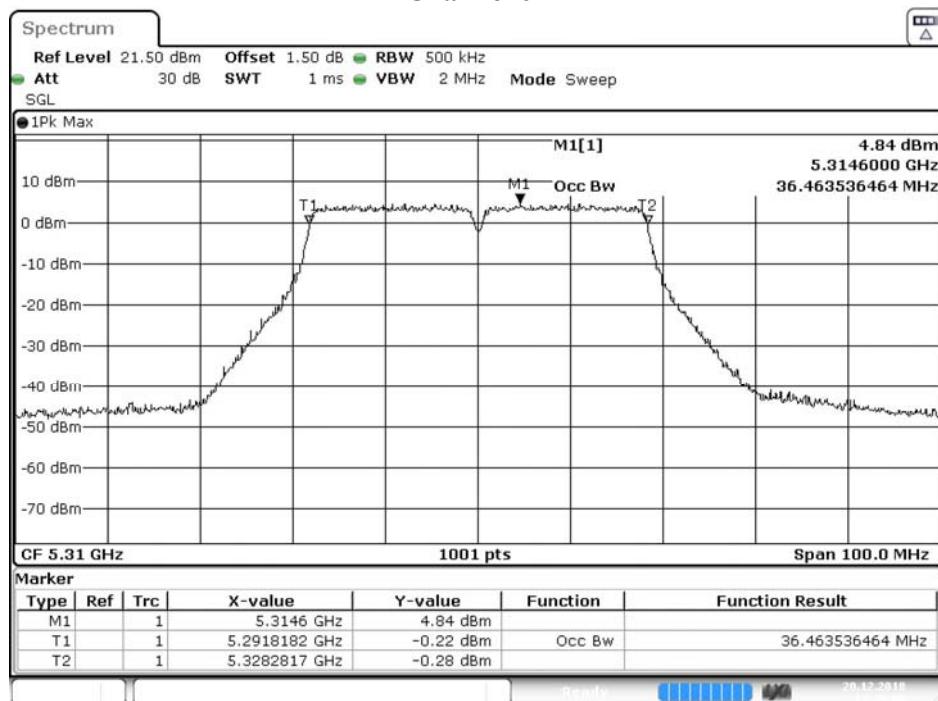
99% Occupied Bandwidth:

Channel 54



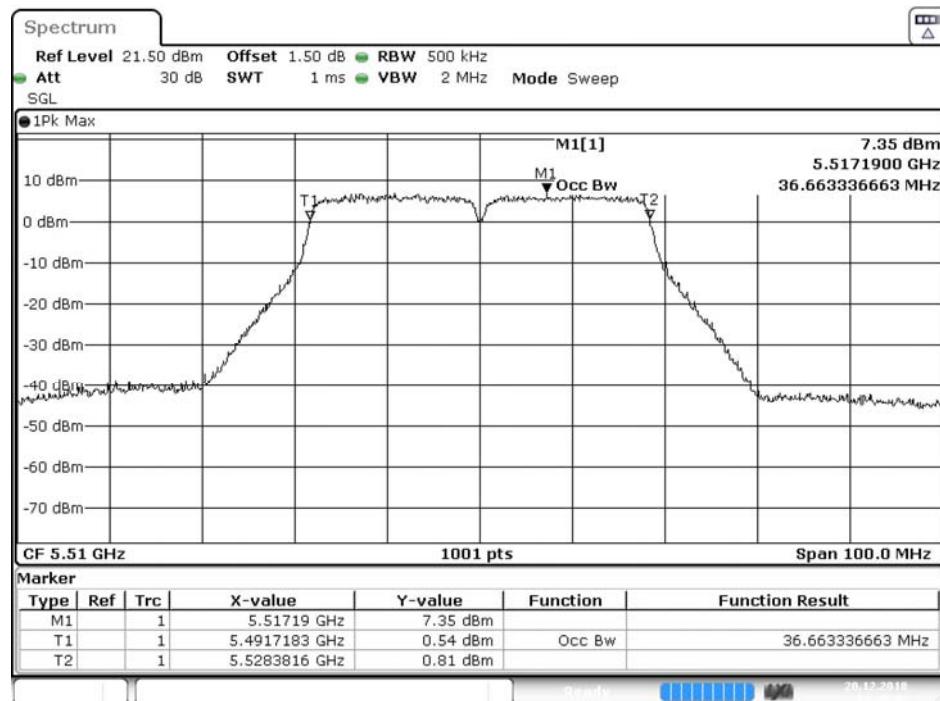
Date: 20.DEC.2018 14:44:23

Channel 62



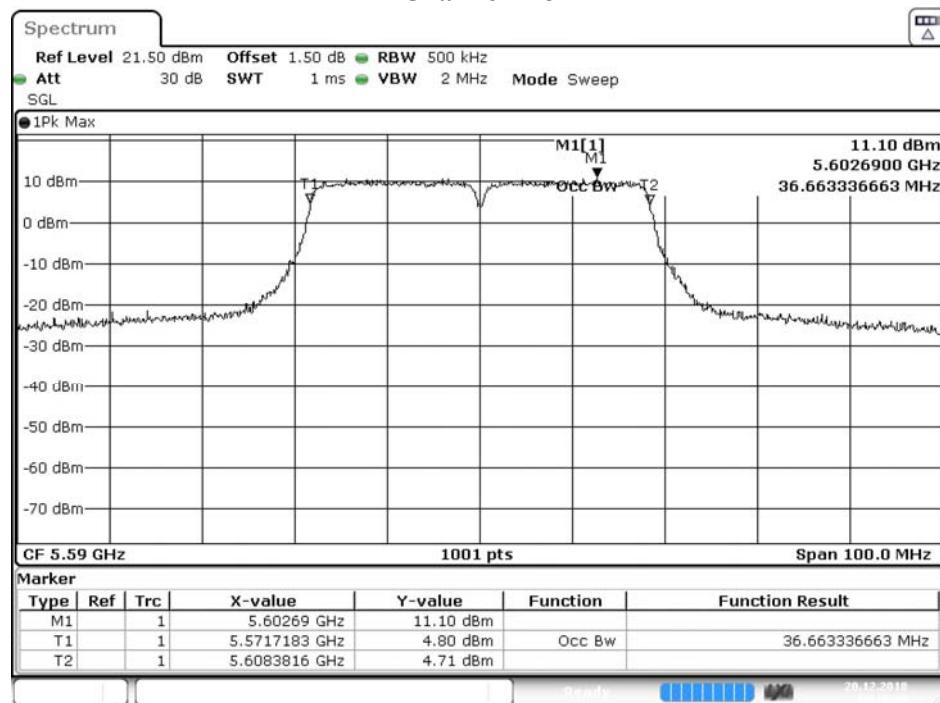
Date: 20.DEC.2018 14:45:01

Channel 102



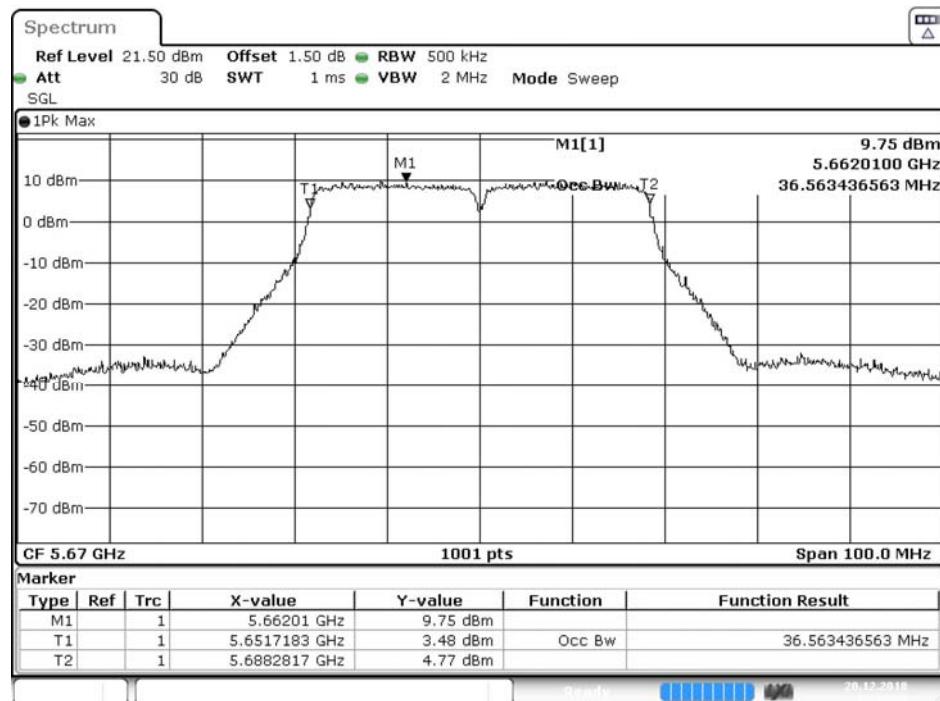
Date: 20.DEC.2018 14:45:42

Channel 118



Date: 20.DEC.2018 15:10:26

Channel 134



Date: 20.DEC.2018 15:12:01

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-20BW_7.2Mbps)

Cable loss=1.5dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit	
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7		
		Measurement Level (dBm)									
144(U-NII-2C)	5720	17.62	17.59	17.55	17.52	17.49	17.46	17.43	17.38	17.35	<24dBm
144(U-NII-3)	5720	12.55	12.52	12.49	12.45	12.42	12.37	12.35	12.31	12.28	<30dBm

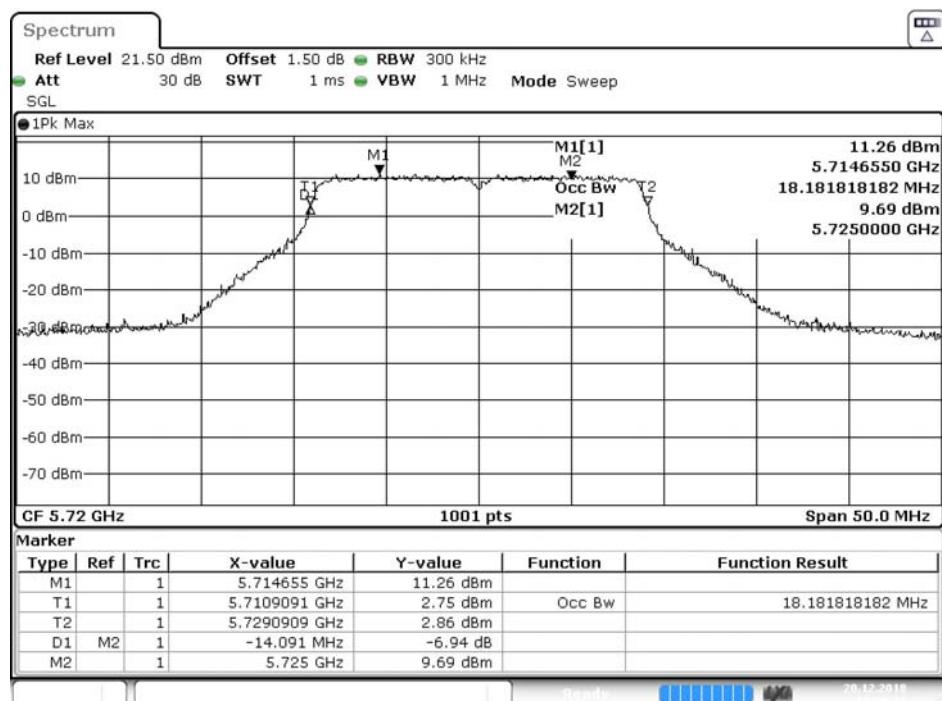
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
144(U-NII-2C)	5720	14.091	17.62	24	22.49	Pass
144(U-NII-3)	5720	--	12.55	30	--	Pass

99% Occupied Bandwidth:

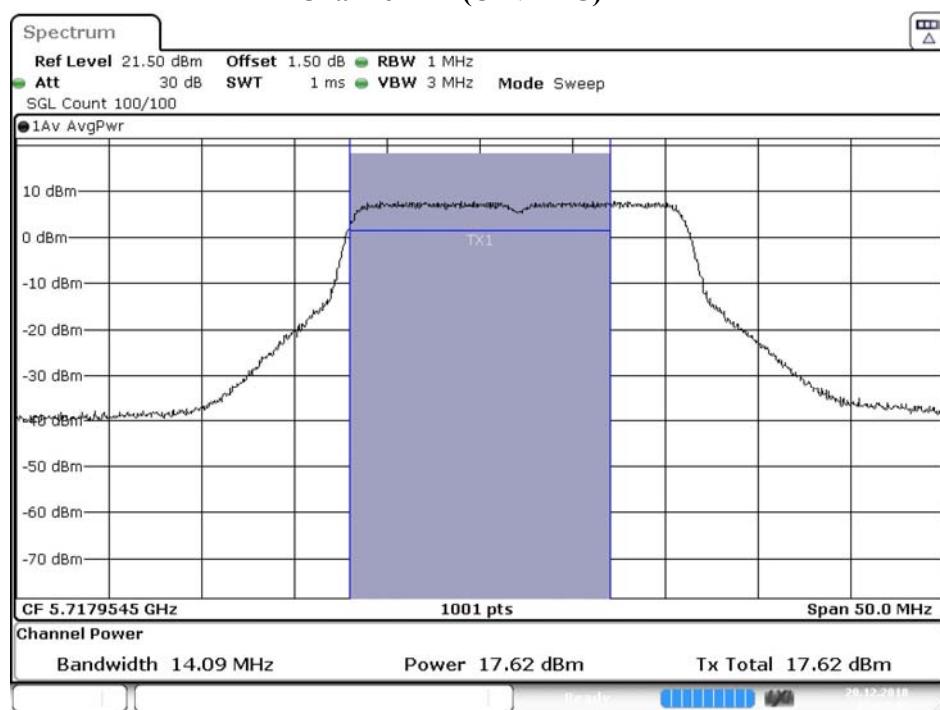
Channel 144



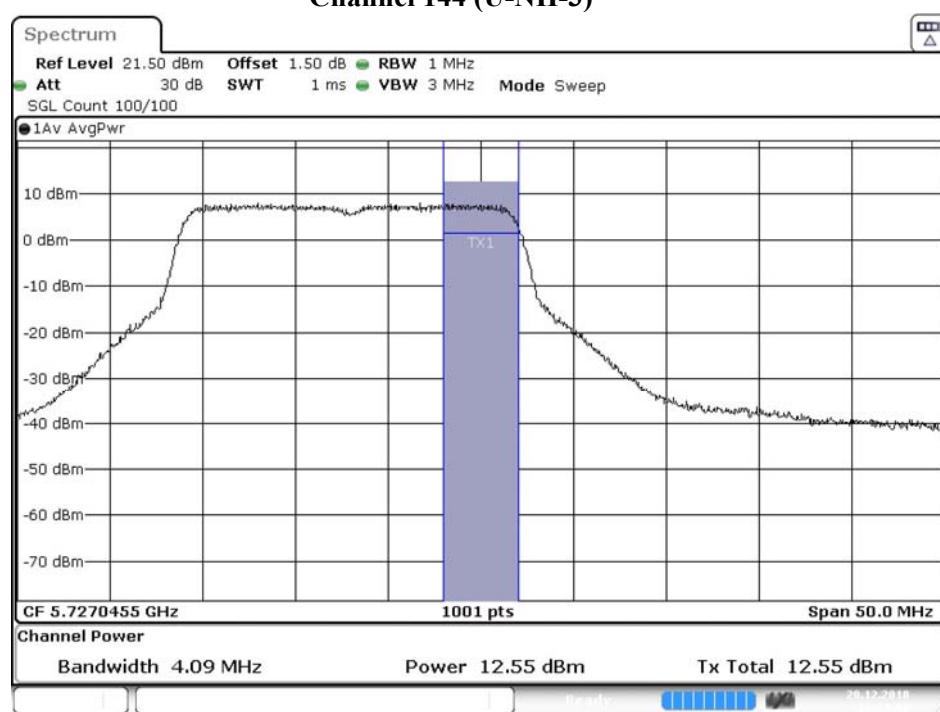
Date: 20.DEC.2018 14:30:21

Maximum conducted output power:

Channel 144 (U-NII-2C)



Channel 144 (U-NII-3)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-40BW_15Mbps)

Cable loss=1.5dB		Average Power										
Channel No.	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
142(U-NII-2C)	5710	18.29	18.25	18.21	18.18	18.15	18.11	18.08	18.05	18.01	17.97	<24dBm
142(U-NII-3)	5710	8.92	8.89	8.86	8.85	8.78	8.75	8.72	8.67	8.65	8.61	<30dBm

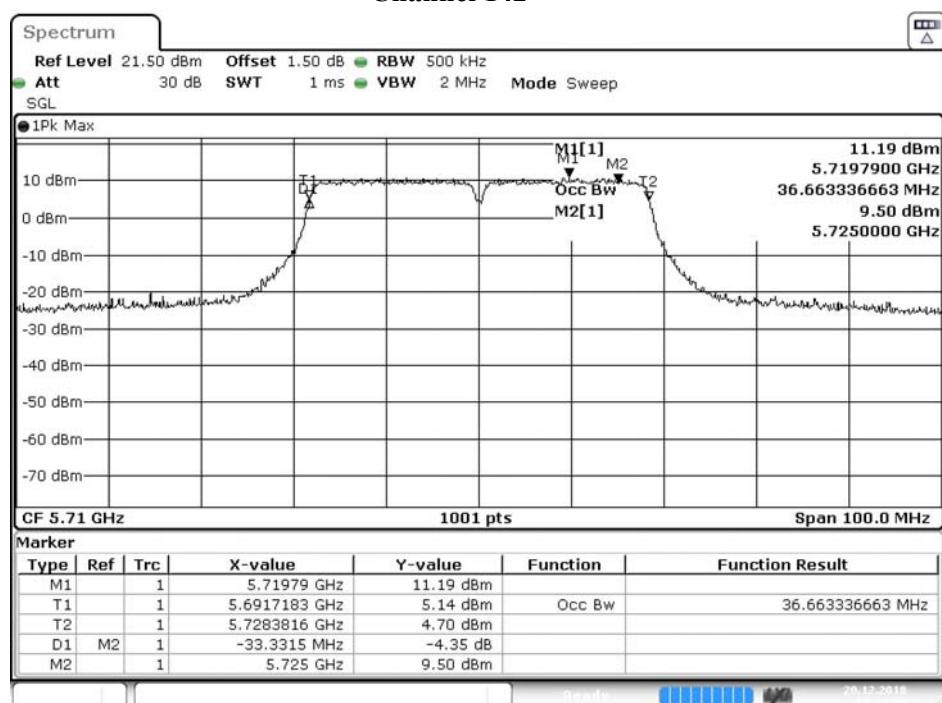
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

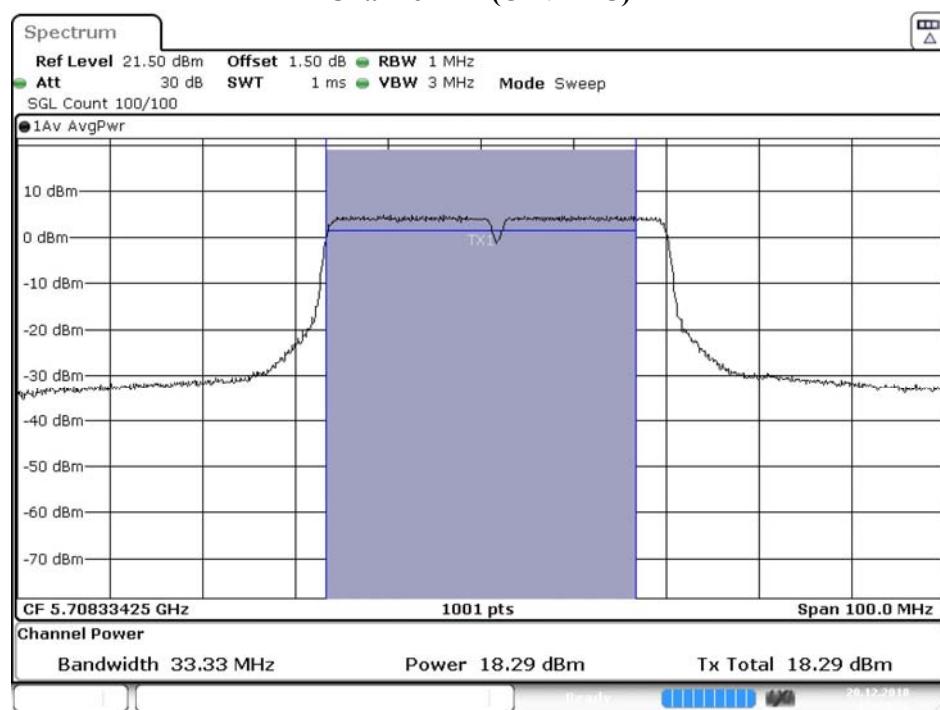
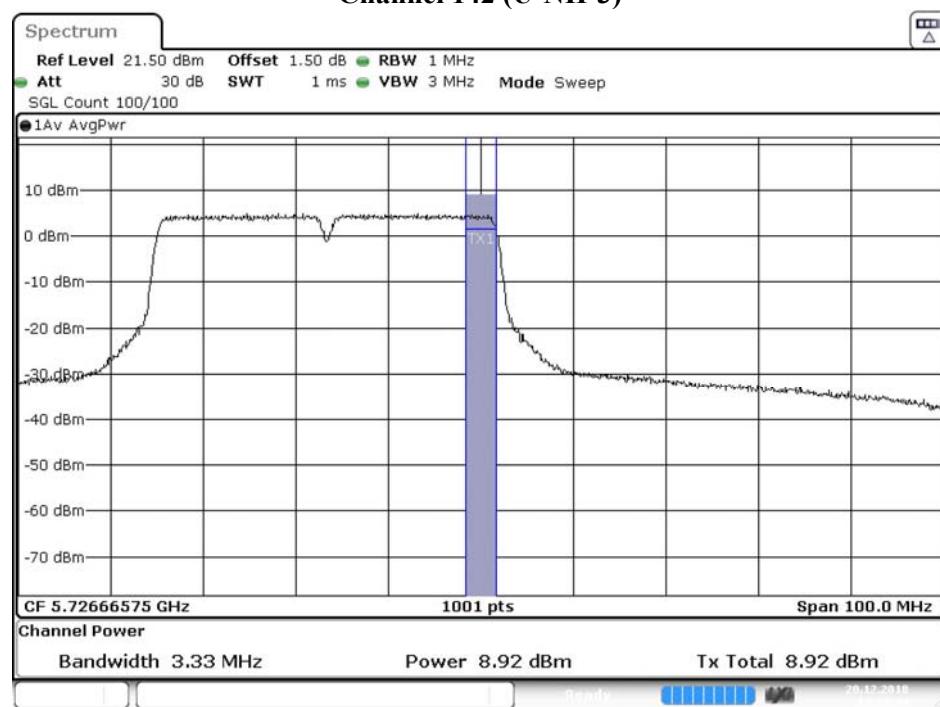
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
142(U-NII-2C)	5710	33.331	18.29	24	26.23	Pass
142(U-NII-3)	5710	--	8.92	30	--	Pass

99% Occupied Bandwidth:

Channel 142



Date: 20.DEC.2018 14:32:00

Maximum conducted output power:**Channel 142 (U-NII-2C)****Channel 142 (U-NII-3)**

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Date : 2018/12/20
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW_32.5Mbps)

Cable loss=1.5dB		Average Power										Required Limit
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.56	16.52	16.49	16.47	16.43	16.38	16.35	16.31	16.28	16.25	<24dBm
58	5290	14.78	14.75	14.71	14.69	14.66	14.62	14.57	14.53	14.51	14.48	<24dBm
106	5530	16.19	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	19.81	19.79	19.75	19.72	19.68	19.65	19.63	19.58	19.55	19.51	<24dBm
138(U-NII-2C)	5690	19.72	--	--	--	--	--	--	--	--	--	<24dBm
138(U-NII-3)	5690	2.47	--	--	--	--	--	--	--	--	--	<30dBm
155	5775	17.58	17.56	17.52	17.47	17.45	17.41	17.39	17.36	17.35	17.31	<30dBm

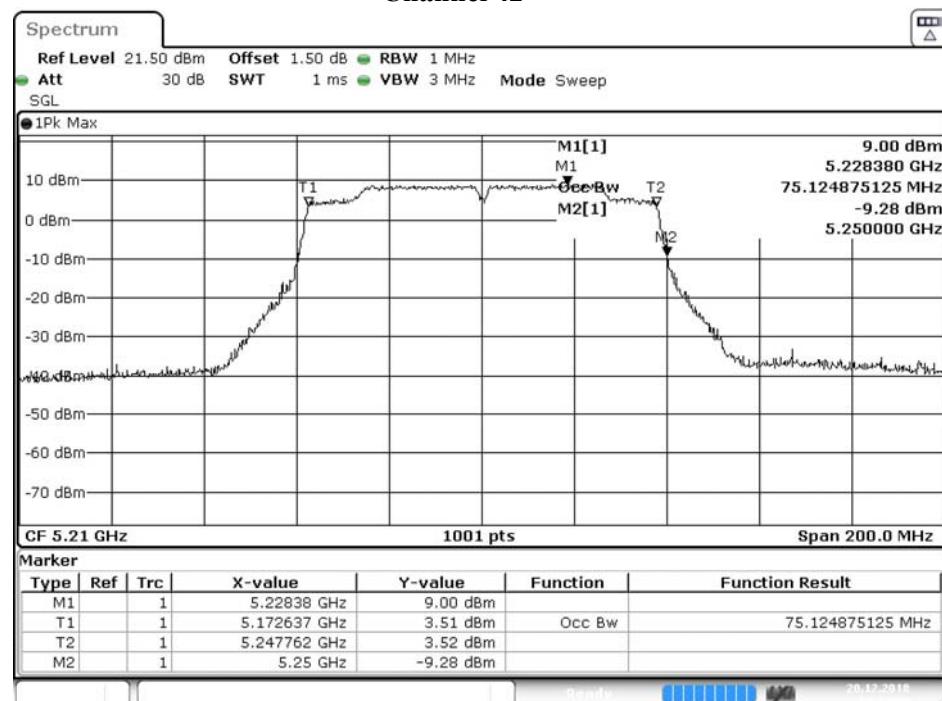
Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	(dBm)+10log(BW)	
42	5210	--	16.56	24	--	Pass
58	5290	75.324	14.78	24	29.77	Pass
106	5530	75.324	16.19	24	29.77	Pass
122	5610	75.324	19.81	24	29.77	Pass
138(U-NII-2C)	5690	72.663	19.72	24	29.61	Pass
138(U-NII-3)	5690	--	2.47	30	--	Pass
155	5775	--	17.58	30	--	Pass

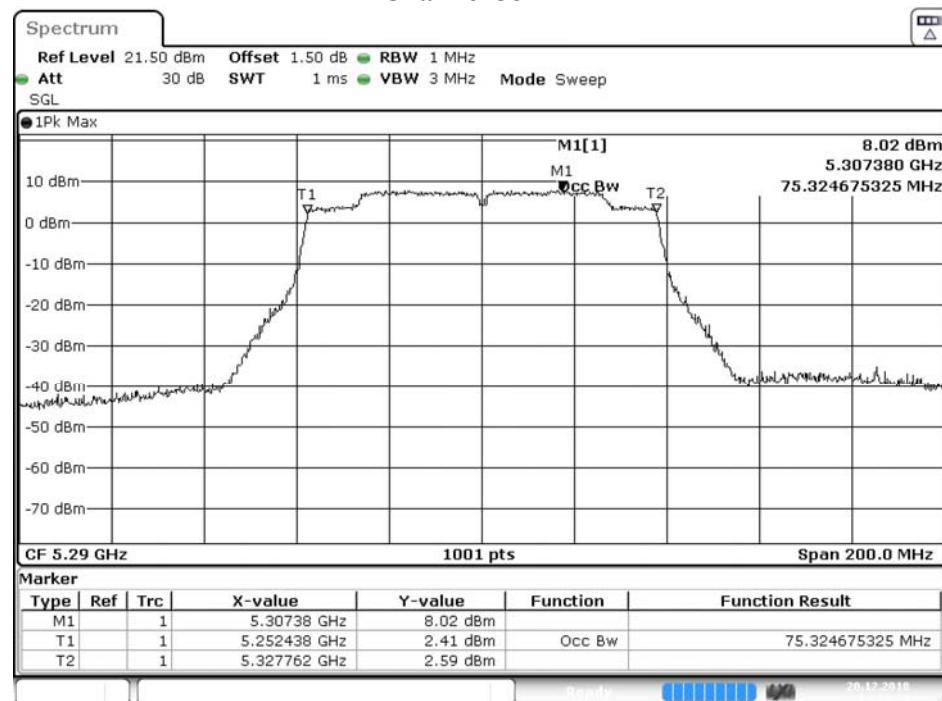
99% Occupied Bandwidth:

Channel 42



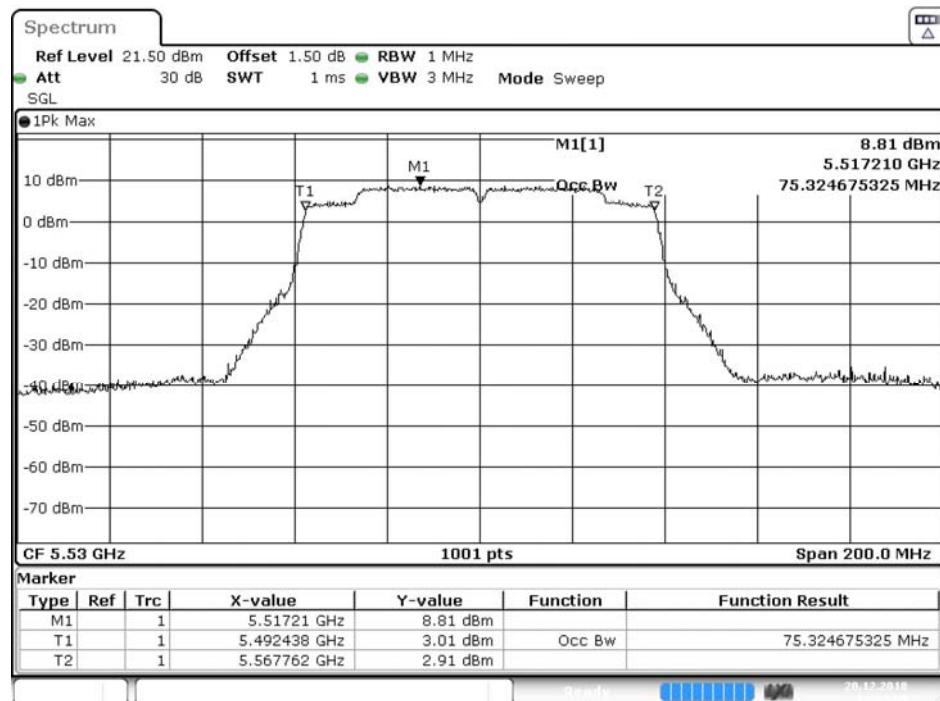
Date: 20.DEC.2018 14:33:26

Channel 58



Date: 20.DEC.2018 14:34:33

Channel 106



Channel 122

