

# Global United Technology Services Co., Ltd.

Report No.: GTS201808000060F03

# FCC REPORT

Autel Intelligent Tech. Corp., Ltd. **Applicant:** 

**Address of Applicant:** 6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili,

Nanshan, Shenzhen 518055, China

Manufacturer/Factory: Autel Intelligent Tech. Corp., Ltd.

Address of 6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili,

Manufacturer/Factory: Nanshan, Shenzhen 518055, China

**Equipment Under Test (EUT)** 

**Product Name:** AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM

Model No.: MaxiPRO MP908, MaxiPRO MP908Pro

Trade Mark: AUTEL

FCC ID: WQ8MAXIPROMP908

FCC CFR Title 47 Part 15 Subpart E Section 15.407 **Applicable standards:** 

Date of sample receipt: August 06, 2018

Date of Test: August 07-22, 2018

Date of report issue: August 23, 2018

**Test Result:** PASS \*

Authorized Signature:

Robinson Lo **Laboratory Manager** 

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

In the configuration tested, the EUT complied with the standards specified above.



# 2 Version

Version No.	Date	Description
00	August 23, 2018	Original

Prepared By:	Project Engineer	Date:	August 23, 2018
Check By:	Reviewer	Date:	August 23, 2018



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

## 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 40GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

Remark: Test according to ANSI C63.10:2013 and ANSI C63.4:2014

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# **5** General Information

# 5.1 General Description of EUT

Product Name:	AUTOMOTIVE DIAGNOSTIC & ANALYSIS SYSTEM
Model No.:	MaxiPRO MP908, MaxiPRO MP908Pro
Test Model No:	MaxiPRO MP908
	are identical in the same PCB layout, interior structure and electrical e diagnostic software and model name for commercial purpose.
Serial No.:	N/A
Test sample(s) ID:	GTS201808000060-1
Sample(s) Status:	Engineer sample
Hardware version:	N/A
Software version:	N/A
Operation Frequency:	802.11a/802.11n(HT20): 5180MHz ~ 5240MHz;
	802.11n(HT40): 5190MHz ~ 5230MHz
Channel numbers:	802.11a/802.11n(HT20): 4;
	802.11n(HT40): 2
Channel separation:	802.11a/802.11n(HT20): 20MHz;
	802.11n(HT40): 40MHz
Modulation technology:	OFDM
Antenna Type:	Integral Antenna
Antenna gain:	0.85dBi (declare by manufacturer)
Power supply:	Adapter:
	Model No.:GME36A-120300FDS
	Input: AC 100~240V, 50/60Hz, 1.2A
	Output: DC 12.0V, 3.0A
	Or DC 3.8V 15000mAh, 57Wh rechargeable Battery



	Operation Frequency each of channel @ 5G Band						
Channel Frequency Channel Frequency Channel Frequency							Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
38	5190MHz	42	5210MHz	46	5230MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

	Frequen	cy (MHz)		
Test channel	5G Band			
	802.11 a/n(HT20)	802.11 n(HT40)		
Lowest channel	5180MHz	5190MHz		
Middle channel	5200MHz			
Highest channel	5240MHz	5230MHz		



#### 5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation.				
	EUT was test with max duty cycle at its maximum power control level.				
•	ne test voltage was tuned from 85% to 115% of the nominal rated supply				

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

## 5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

#### 5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

### 5.5 Description of Support Units

None.

#### 5.6 Deviation from Standards

None.

#### 5.7 Additional Instructions

# EUT Fixed Frequency Settings:

Special test software was pre-built-in by manufacturer.						
Mode	Channel	Frequency (MHz)	Level Set			
OFDM	CH36	5180				
	CH38	5190				
	CH40	5200				
	CH42	5210	TX level : default			
	CH44	5220				
	CH46	5230				
	CH48	5240				

Global United Technology Services Co., Ltd.

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## 6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019	
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019	
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019	
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019	
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019	
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019	
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019	
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019	
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019	
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019	



Conduc	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019		

Cond	Conducted:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019			
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019			
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019			

Gene	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019			
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019			



## 7 Test results and Measurement Data

## 7.1 Antenna requirement:

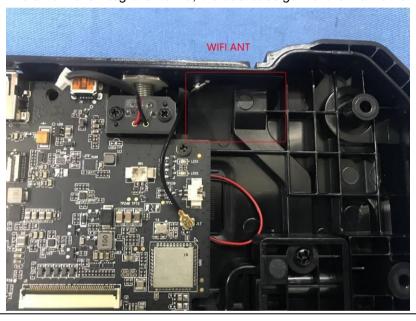
Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **E.U.T Antenna:**

The antenna is integral antenna, the best case gain of the main antenna is 0.85dBi





## 7.2 Conducted Emissions

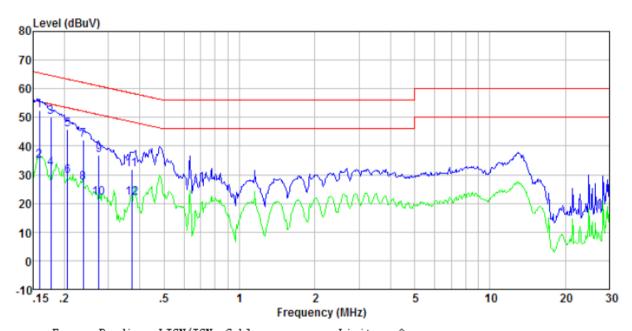
Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	150KHz to 30MHz	150KHz to 30MHz						
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz							
Limit:	Frequency range (MHz)	Ereguenau range (MHz) Limit (dBuV)						
	Frequency range (IVII 12)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	46						
	5-30	60	50					
	* Decreases with the logarithm	n of the frequency.						
	impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.							
Test setup:	Refere	nce Plane						
	LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane  Remark E.U.T: Equipment Under Test							
	Test table/Insulation pla  Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio	J.T EMI Receiver	 ]					
Test environment:	Test table/Insulation pla  Remark: E.U.T. Equipment Under Test	J.T EMI Receiver	 ]					
Test environment: Test Instruments:	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	EMI Receiver						
Test Instruments:	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m  Temp.: 25 °C Hum  Refer to section 6.0 for details	EMI Receiver						
	Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m Temp.: 25 °C Hum	EMI Receiver						

#### **Measurement Data**

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Test mode:	WiFi mode	Probe:	Line

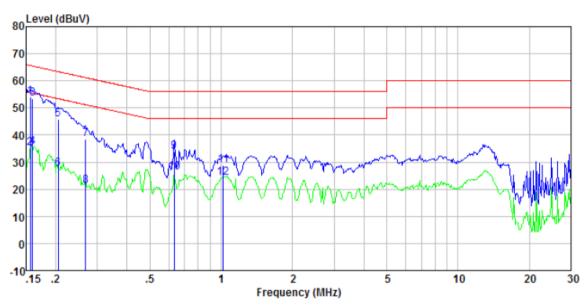


Freq	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	52.06	0.40	0.08	52.54	65.52	-12.98	QP
0.16	34.43	0.40	0.08	34.91	55.52	-20.61	Average
0.18	49.54	0.40	0.09	50.03	64.64	-14.61	QP
0.18	31.71	0.40	0.09	32.20	54.64	-22.44	Average
0.21	45.33	0.40	0.11	45.84	63.36	-17.52	QP
0.21	29.04	0.40	0.11	29.55	53.36	-23.81	Average
0.24	41.48	0.40	0.11	41.99	62.17	-20.18	QP
0.24	26.65	0.40	0.11	27.16	52.17	-25.01	Average
0.27	36.36	0.40	0.10	36.86	60.98	-24.12	QP
0.27	21.35	0.40	0.10	21.85	50.98	-29.13	Average
0.37	31.25	0.36	0.10	31.71	58.47	-26.76	QP
0.37	21.51	0.36	0.10	21.97	48.47	-26.50	Average

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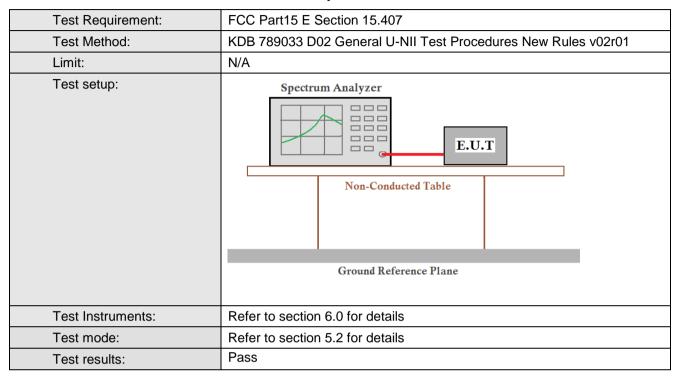
Test mode:	WiFi mode	Prohe.	Neutral
i est illoue.	vvii i iiioue	Probe:	INCUIIAI



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	53.45	0.40	0.08	53.93	65.65	-11.72	QP
0.16	34.82	0.40	0.08	35.30	55.65	-20.35	Average
0.16	53.05	0.40	0.08	53.53	65.47	-11.94	QP
0.16	35.05	0.40	0.08	35.53	55.47	-19.94	Average
0.21	45.37	0.40	0.11	45.88	63.40	-17.52	QP
0.21	26.98	0.40	0.11	27.49	53.40	-25.91	Average
0.27	37.88	0.40	0.10	38.38	61.20	-22.82	QP
0.27	20.75	0.40	0.10	21.25	51.20	-29.95	Average
0.63	33.42	0.28	0.12	33.82	56.00	-22.18	QP
0.63	25.73	0.28	0.12	26.13	46.00	-19.87	Average
1.02	28.46	0.20	0.15	28.81	56.00	-27.19	QP
1.02	23.95	0.20	0.15	24.30	46.00	-21.70	Average



## 7.3 Emission Bandwidth and 99% Occupied Bandwidth



### **Measurement Data:**

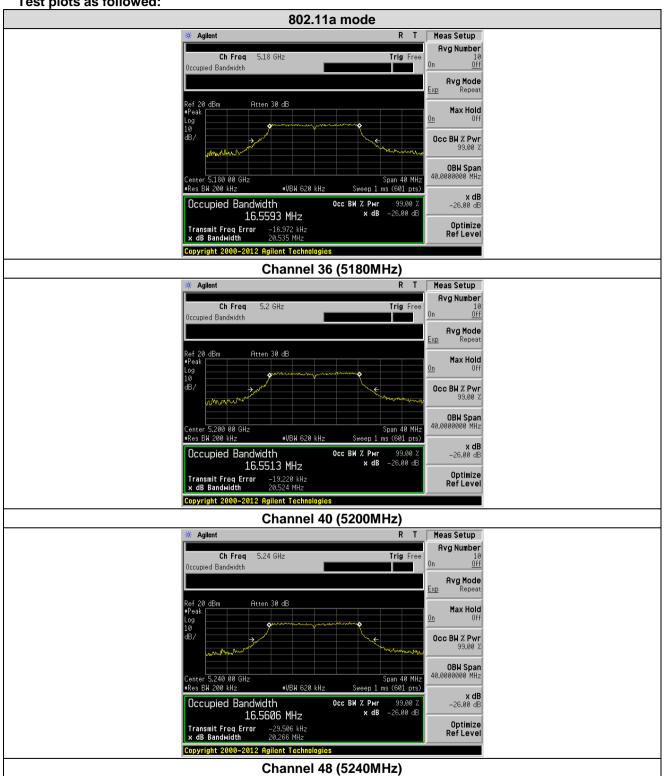
CH.	Frequency	99% Occupied Bandwidth (MHz)		26dB Occupied Bandwidth (MHz)		
No.	(MHz)	802.11a	802.11n(HT20)	802.11a	802.11n(HT20)	
36	5180.00	16.5593	17.7152	20.535	21.359	
40	5200.00	16.5513	17.6879	20.524	21.295	
48	5240.00	16.5606	17.7003	20.266	21.081	

CH.	Frequency	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)		
No.	(MHz)	802.11n(HT40)	802.11n(HT40)		
38	5190.00	36.3147	43.023		
46	5230.00	36.3031	42.527		

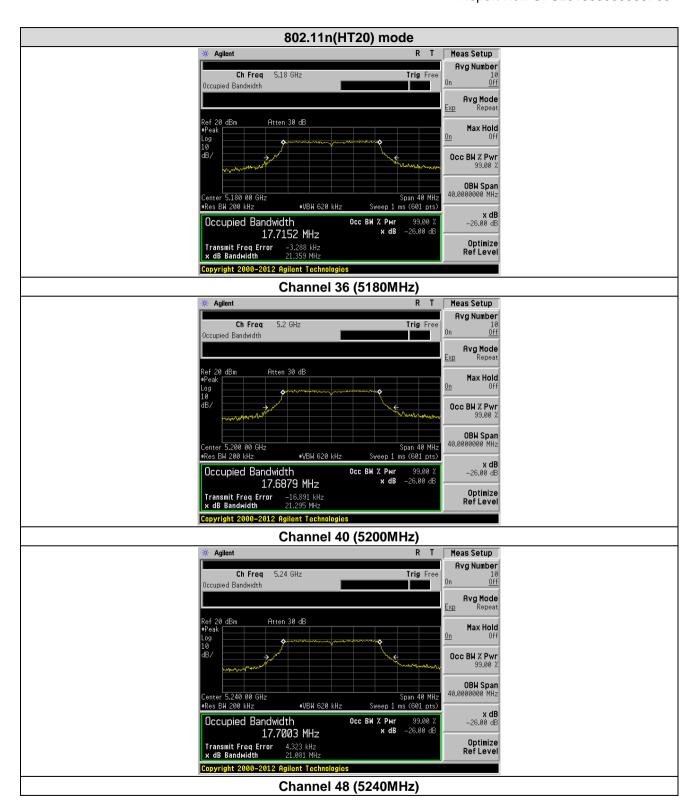
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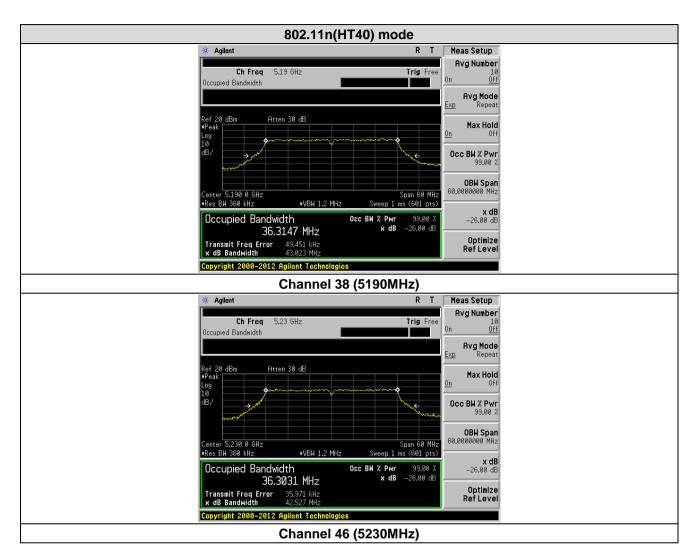
Test plots as followed:













## 7.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW.
Test setup:	Power Meter  E.U.T  Non-Conducted Table  Ground Reference Plane
Test procedure:	Measurement using an RF average power meter
	<ul> <li>(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied <ul> <li>a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.</li> <li>b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.</li> <li>c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.</li> </ul> </li> <li>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</li> <li>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</li> <li>(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).</li> </ul>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass



#### **Measurement Data**

	802.11a mode									
CH No.	Frequency		Limit							
	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result				
36	5180.00	12.40	0.51	12.91	24	Pass				
40	5200.00	13.08	0.51	13.59	24	Pass				
48	5240.00	12.38	0.51	12.89	24	Pass				

	802.11n(HT20) mode										
CH No.	Fraguency	Measured Power (dBm)			Limit						
	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result					
36	5180.00	12.85	0.52	13.37	24	Pass					
40	5200.00	12.79	0.52	13.31	24	Pass					
48	5240.00	12.68	0.52	13.40	24	Pass					

	802.11n(HT40) mode										
CH Fro	Frequency		Limit								
CH No.	Frequency (MHz)	Measured	Duty Factor	Ctor Total Output Power (dBm)							
38	5190.00	12.56	1.04	13.60	24	Pass					
46	5230.00	11.91	1.04	12.95	24	Pass					

Note: Output Power = Measured Power + Duty Factor

Duty Factor = 10 log (1/Duty Cycle) Duty cycle=88.9% for 802.11a

Duty cycle=88.8% for 802.11n(HT20)

Duty cycle=78.6% for 802.11n(HT40)

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# 7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	11dBm/MHz
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test procedure:	<ol> <li>Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power".</li> <li>Use the peak search function on the instrument to find the peak of the</li> </ol>
	spectrum.
	3) Make the following adjustments to the peak value of the spectrum, if applicable:
	<ul> <li>a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.</li> </ul>
	b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
	4) The result is the PSD.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass



#### **Measurement Data**

		802	2.11a mode		
Channel No.	Frequency (MHz)	) Measured PPSD Total PPSD (dBm/MHz) (dBm/MHz)		Limit (dBm/MHz)	Result
36	5180.00	1.87	2.38	11.00	Pass
40	5200.00	2.55	3.06	11.00	Pass
48	5240.00	2.82	3.33	11.00	Pass

	802.11n(HT20) mode										
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result						
36	5180.00	3.63	4.15	11.00	Pass						
40	5200.00	4.35	4.87	11.00	Pass						
48	5240.00	3.56	4.08	11.00	Pass						

	802.11n(HT40) mode										
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result						
38	5190.00	-0.87	0.17	11.00	Pass						
46	5230.00	-1.20	-0.16	11.00	Pass						

Note: Total PSD = Measured PSD + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

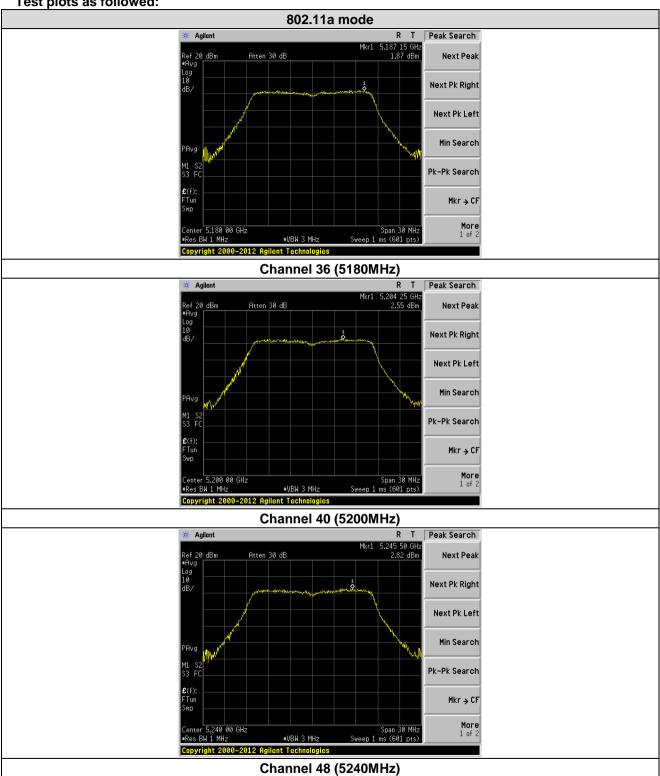
Duty cycle=88.9% for 802.11a

Duty cycle=88.8% for 802.11n(HT20)

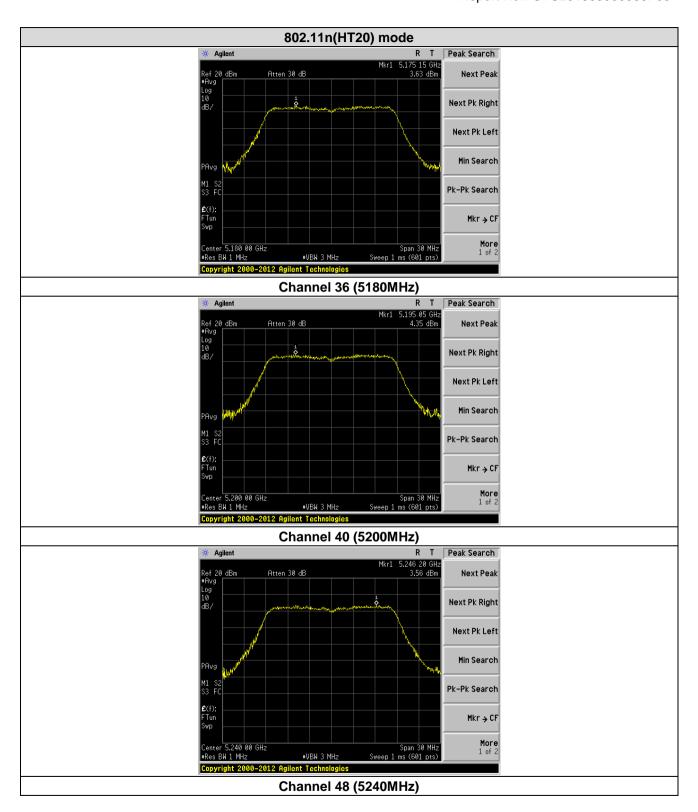
Duty cycle=78.6% for 802.11n(HT40)



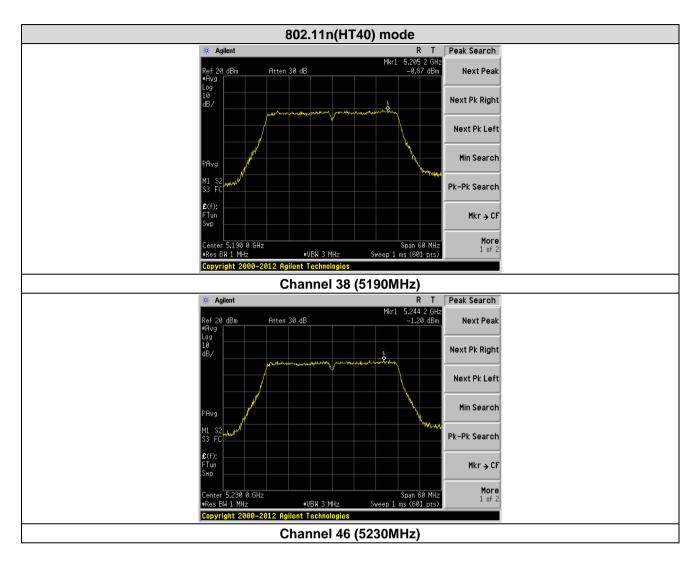
Test plots as followed:













# 7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205								
Test Method:	ANSI C63.10:201	3							
Test site:	Measurement Dis	stance: 3m (S	emi-Anecho	ic Chambei	r)				
Receiver setup:		,			,				
. 1000.100	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
	Above Toriz	AV	1MHz	3MHz	Average Value				
Limit:				, O	T				
	Frequen		Limit (dBuV/		Remark				
	30MHz-88		40.0		Quasi-peak Value				
	88MHz-216		43.5		Quasi-peak Value				
	216MHz-96		46.0		Quasi-peak Value				
	960MHz-1	GHZ	54.0		Quasi-peak Value				
	Above 10	GHz -	54.0 68.2		Average Value Peak Value				
			00.2	<u> </u>	reak value				
	<ul> <li>Undesirable emission limits:</li> <li>(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.</li> <li>(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.</li> <li>(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27</li> </ul>								
Test Procedure:	<ul> <li>a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not</li> </ul>								



	have 10dB margin would be re-tested one by one using peak, quasi- peak or average method as specified and then reported in a data sheet.						
Test setup:		m Table+ <150cm >4	<31 EUT+ ■	Test Ar	Preamplifier		
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar	
Test Instruments:	Refer to s	ection 6.0 fo	or details				
Test mode:	Refer to s	ection 5.2 fo	or details				
Test results:	Pass						

#### Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.



#### **Measurement Data:**

802.11a(HT2	20)			Low	est				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5150.00	48.53	32.07	8.99	37.49	52.10	68.20	-16.10	V	PK
5150.00	35.77	32.07	8.99	37.49	39.34	54.00	-14.66	V	AV
5150.00	50.44	32.07	8.99	37.49	54.01	68.20	-14.19	Н	PK
5150.00	37.86	32.07	8.99	37.49	41.43	54.00	-12.57	Н	AV

802.11a(HT2	20)								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5350.00	45.56	31.75	9.29	37.20	49.40	68.20	-18.80	V	PK
5350.00	36.79	31.75	9.29	37.20	40.63	54.00	-13.37	V	AV
5350.00	48.02	31.75	9.29	37.20	51.86	68.20	-16.34	Н	PK
5350.00	34.45	31.75	9.29	37.20	38.29	54.00	-15.71	H	AV

802.11n(HT2	20)			Low					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5150.00	50.51	32.07	8.99	37.49	54.08	68.20	-14.12	V	PK
5150.00	38.46	32.07	8.99	37.49	42.03	54.00	-11.97	V	AV
5150.00	49.79	32.07	8.99	37.49	53.36	68.20	-14.84	Н	PK
5150.00	38.03	32.07	8.99	37.49	41.60	54.00	-12.40	Η	AV

802.11n(HT2	20)			Highest					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5350.00	46.63	31.75	9.29	37.20	50.47	68.20	-17.73	V	PK
5350.00	35.22	31.75	9.29	37.20	39.06	54.00	-14.94	V	AV
5350.00	47.54	31.75	9.29	37.20	51.38	68.20	-16.82	Н	PK
5350.00	34.04	31.75	9.29	37.20	37.88	54.00	-16.12	Н	AV



802.11n(HT4	<del>1</del> 0)			Low					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5150.00	47.56	32.07	8.99	37.49	51.13	68.20	-17.07	V	PK
5150.00	34.02	32.07	8.99	37.49	37.59	54.00	-16.41	V	AV
5150.00	46.87	32.07	8.99	37.49	50.44	68.20	-17.76	Н	PK
5150.00	33.89	32.07	8.99	37.49	37.46	54.00	-16.54	Н	AV

802.11n(HT4	10)			High	est				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Pol.	Det.
5350.00	48.06	31.75	9.29	37.20	51.90	68.20	-16.30	V	PK
5350.00	33.44	31.75	9.29	37.20	37.28	54.00	-16.72	V	AV
5350.00	46.57	31.75	9.29	37.20	50.41	68.20	-17.79	Η	PK
5350.00	32.73	31.75	9.29	37.20	36.57	54.00	-17.43	Н	AV



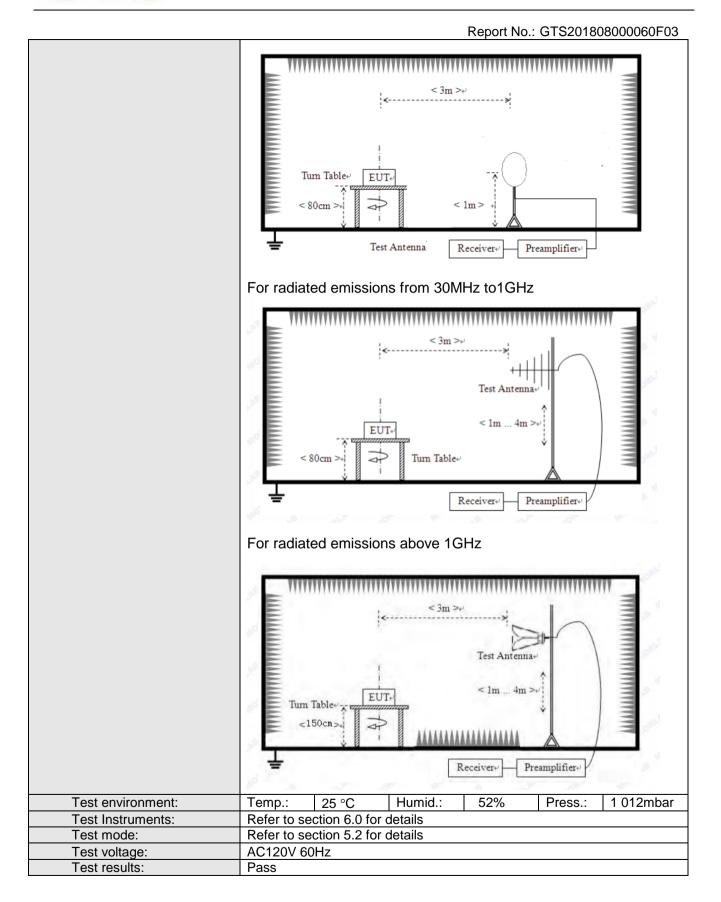
## 7.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205									
Test Method:	ANSI C63.10:2013	3								
Test Frequency Range:	9kHz to 40GHz									
Test site:	Measurement Dist	ance: 3	3m (Sen	ni-Anechoid	Chamber)					
Receiver setup:	Frequency	Dete	ector RBW		VBW	Value				
·	9kHz-150KHz		i-peak	200Hz	1kHz	Quasi-peak Value				
	150kHz-30MHz		i-peak	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz		i-peak	100KHz	300KHz	Quasi-peak Value				
	Above 1GHz		eak V	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value				
Limit:		^	V	TIVITIZ	SIVII 1Z	Average value				
Little	Frequency		Limit	(uV/m)	Value	Measurement Distance				
	0.009MHz-0.490	)MHz	2400	/F(KHz)	QP	300m				
	0.490MHz-1.705	MHz	QP	300m						
	1.705MHz-30N	30m								
	1.705MHz-30MHz									
	88MHz-216MHz 150 QP									
	216MHz-960M	lHz	200		QP	3m				
	960MHz-1GH	lz	5	500	QP	SIII				
	Above 1CH	_	Ę	500	Average					
	Above 1GH:	2	5	000	Peak					
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below:  1>.Below 1GHz test procedure:  1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.  2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.  3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.  4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.  5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  6. If the emission level of the EUT in peak mode was 10dB lower than									



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	did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	2>.Above 1GHz test procedure:
	1. On the test site as test setup graph above, the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.
	<ol><li>The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.</li></ol>
	3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
	4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
	5. Repeat step 4 for test frequency with the test antenna polarized horizontally.
	6. Remove the transmitter and replace it with a substitution antenna
	7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
	Repeat step 7 with both antennas horizontally polarized for each test frequency.
	9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:
	EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi) where:
	Pg is the generator output power into the substitution antenna.
Test setup:	For radiated emissions from 9kHz to 30MHz







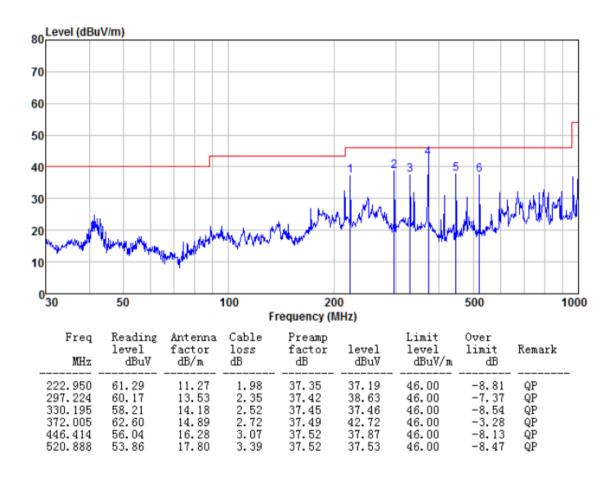
#### **Measurement Data:**

#### 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

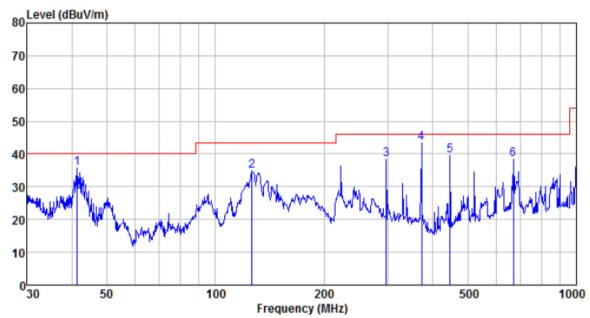
30MHz~1GHz

Test mode:	WiFi mode	Prohe:	Horizontal
i rest mode:	i vviri mode	Probe:	HUHZUHlai





Test mode:	WiFi mode	Probe:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
41.422 126.329 297.224 372.005 446.414	58. 52 61. 61 59. 92 63. 24 57. 60	12. 22 8. 66 13. 53 14. 89 16. 28	0.68 1.41 2.35 2.72 3.07	35. 75 36. 93 37. 42 37. 49 37. 52	35. 67 34. 75 38. 38 43. 36 39. 43	40.00 43.50 46.00 46.00 46.00	-4.33 -8.75 -7.62 -2.64 -6.57	QP QP QP QP QP QP
446.414 668.142	57.60 52.53	16.28	3.07	37.52 37.60	39.43 38.47	46.00	-6.57 -7.53	QP QP



#### Above 1GHz:

## 802.11a(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	28.36	39.67	14.62	32.65	50.00	74	-24.00	Vertical
15540	29.41	38.6	17.66	34.46	51.21	74	-22.79	Vertical
10360	29.64	39.67	14.62	32.65	51.28	74	-22.72	Horizontal
15540	30.43	38.6	17.66	34.46	52.23	74	-21.77	Horizontal

## 802.11a(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	27.68	39.75	14.63	32.71	49.35	74	-24.65	Vertical
15600	26.83	38.33	17.67	34.17	48.66	74	-25.34	Vertical
10400	28.96	39.75	14.63	32.71	50.63	74	-23.37	Horizontal
15600	29.72	38.33	17.67	34.17	51.55	74	-22.45	Horizontal

## 802.11a(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	26.39	39.82	14.68	32.86	48.03	74	-25.97	Vertical
15720	28.98	38.09	17.73	33.66	51.14	74	-22.86	Vertical
10480	28.85	39.82	14.68	32.86	50.49	74	-23.51	Horizontal
15720	27.36	38.09	17.73	33.66	49.52	74	-24.48	Horizontal

## 802.11n(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	29.33	39.67	14.62	32.65	50.97	74	-23.03	Vertical
15540	27.52	38.60	17.66	34.46	49.32	74	-24.68	Vertical
10360	27.81	39.67	14.62	32.65	49.45	74	-24.55	Horizontal
15540	29.63	38.60	17.66	34.46	51.43	74	-22.57	Horizontal

## 802.11n(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	27.64	39.75	14.63	32.71	49.31	74	-24.69	Vertical
15600	26.53	38.33	17.67	34.17	48.36	74	-25.64	Vertical
10400	25.82	39.75	14.63	32.71	47.49	74	-26.51	Horizontal
15600	26.71	38.33	17.67	34.17	48.54	74	-25.46	Horizontal

## 802.11n(HT20) 5240MHz

Fraguenay	Read	Antenna	Cable	Preamp	Lovel	LimitLina	Over	
Frequency	Level	Factor	Loss	Factor	Level	Limit Line	Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	·
10480	26.67	39.82	14.68	32.86	48.31	74	-25.69	Vertical
15720	25.83	38.09	17.73	33.66	47.99	74	-26.01	Vertical
10480	26.05	39.82	14.68	32.86	47.69	74	-26.31	Horizontal
15720	27.13	38.09	17.73	33.66	49.29	74	-24.71	Horizontal



## 802.11n(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380	25.33	39.71	14.63	32.68	46.99	74	-27.01	Vertical
15570	26.04	38.46	17.67	34.32	47.85	74	-26.15	Vertical
10380	26.28	39.71	14.63	32.68	47.94	74	-26.06	Horizontal
15570	27.83	38.46	17.67	34.32	49.64	74	-24.36	Horizontal

#### 802.11n(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460	26.73	39.82	14.66	32.80	48.41	74	-25.59	Vertical
15690	26.42	38.09	17.71	33.81	48.41	74	-25.59	Vertical
10460	27.15	39.82	14.66	32.80	48.83	74	-25.17	Horizontal
15690	28.43	38.09	17.71	33.81	50.42	74	-23.58	Horizontal

#### Note:

- 1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
- 2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
- 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

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## 7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)					
Test Method:	ANSI C63.10:2013, FCC Part 2.1055					
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified					
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.					
Test setup:	Spectrum analyzer  Att.  Note: Measurement setup for testing on A	Temperature Chamber  EUT  Variable Power Supply  Antenna connector				
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Test results: Pass					

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.



#### Measurement data:

Frequency stability versus Temp.							
Power Supply: DC 3.7V							
Tomp Operating		0 minute	2 minute	5 minute	10 minute		
Temp. (°C)	Frequency	Measured	Measured	Measured	Measured		
	(MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)		
	5180	5179.9833	5179.9841	5179.9853	5179.9861		
-30	5200	5199.9838	5199.9845	5199.9858	5199.9865		
-30	5220	5219.9842	5219.9850	5219.9862	5219.9869		
	5240	5239.9847	5239.9854	5239.9866	5239.9873		
	5180	5179.9851	5179.9859	5179.9870	5179.9876		
-20	5200	5199.9856	5199.9863	5199.9874	5199.9880		
-20	5220	5219.9860	5219.9867	5219.9877	5219.9883		
	5240	5239.9864	5239.9871	5239.9881	5239.9887		
	5180	5179.9868	5179.9874	5179.9884	5179.9890		
-10	5200	5199.9872	5199.9878	5199.9888	5199.9893		
-10	5220	5219.9876	5219.9882	5219.9891	5219.9896		
	5240	5239.9879	5239.9885	5239.9894	5239.9899		
	5180	5179.9838	5179.9845	5179.9858	5179.9865		
0	5200	5199.9842	5199.9850	5199.9862	5199.9869		
0	5220	5219.9847	5219.9854	5219.9866	5219.9873		
	5240	5239.9851	5239.9858	5239.9870	5239.9876		
	5180	5179.9856	5179.9863	5179.9873	5179.9880		
40	5200	5199.9860	5199.9867	5199.9877	5199.9883		
10	5220	5219.9864	5219.9870	5219.9881	5219.9887		
	5240	5239.9868	5239.9874	5239.9884	5239.9890		
	5180	5179.9872	5179.9878	5179.9888	5179.9893		
20	5200	5199.9876	5199.9881	5199.9891	5199.9896		
	5220	5219.9879	5219.9885	5219.9894	5219.9899		
	5240	5239.9883	5239.9888	5239.9897	5239.9902		
30	5180	5179.9831	5179.9839	5179.9852	5179.9859		
	5200	5199.9836	5199.9844	5199.9856	5199.9864		
	5220	5219.9841	5219.9849	5219.9860	5219.9868		
	5240	5239.9846	5239.9853	5239.9865	5239.9871		
40	5180	5179.9850	5179.9857	5179.9868	5179.9875		
	5200	5199.9854	5199.9861	5199.9872	5199.9879		
	5220	5219.9859	5219.9865	5219.9876	5219.9882		
	5240	5239.9863	5239.9869	5239.9880	5239.9886		
	5180	5179.9867	5179.9873	5179.9883	5179.9889		
	5200	5199.9871	5199.9877	5199.9887	5199.9892		
50	5220	5219.9874	5219.9880	5219.9890	5219.9895		
	5240	5239.9878	5239.9884	5239.9893	5239.9898		

F<sub>L</sub>=5179.9833MHz; F<sub>H</sub>=5239.9902MHz



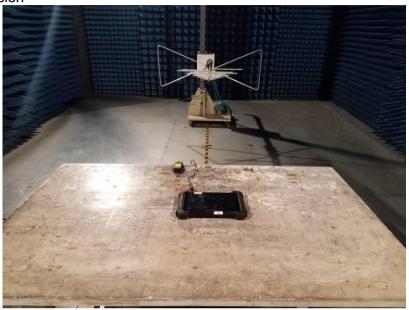
Frequency stability versus Voltage								
Temperature: 25°C								
Power Operating		0 minute	2 minute	5 minute	10 minute			
Supply (VDC)	Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)			
	5180	5179.9843	5179.9851	5179.9863	5179.9869			
3.3	5200	5199.9846	5199.9854	5199.9865	5199.9872			
	5220	5219.9849	5219.9857	5219.9868	5219.9875			
	5240	5239.9852	5239.9859	5239.9870	5239.9877			
3.7	5180	5179.9855	5179.9862	5179.9873	5179.9879			
	5200	5199.9858	5199.9865	5199.9875	5199.9882			
	5220	5219.9861	5219.9867	5219.9878	5219.9884			
	5240	5239.9864	5239.9870	5239.9880	5239.9886			
4.1	5180	5179.9866	5179.9873	5179.9883	5179.9889			
	5200	5199.9869	5199.9875	5199.9885	5199.9891			
	5220	5219.9871	5219.9878	5219.9887	5219.9893			
	5240	5239.9874	5239.9880	5239.9889	5239.9895			

F<sub>L</sub>=5179.9843MHz;F<sub>H</sub>=5239.9895MHz



# 8 Test Setup Photo

Radiated Emission







## **Conducted Emission**



# 9 EUT Constructional Details

Reference to the test report No. GTS201808000060F01

---END---