FCC REPORT

Product Name	:	IEEE 802.11 a/b/g/n/ac 2T2R SDIO WIFI And BT Module
Trade mark	:	LB-LINK
Model No.	:	BL-8822SSA3
FCC ID	:	2AL6K-8822SSA3
Report Number	:	BLA-EMC-201903-A37-02
Date of sample receipt	:	March 18, 2019
Date of Test	:	March 18, 2019 –April 16, 2019
Date of Issue	:	April 17, 2019
Test standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Test result	:	PASS

Prepared for:

Shenzhen Bilian Electronic Co., Ltd
Building B1, Zhongxing Industrial Zone, Juling, Jutang Community, Guanlan street, Longhua New District, Shenzhen, Guangdong, P.R. China

Prepared by:

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Compiled by: Jason

Review by: Sweet.long

Approved by: Emen_Li

Date: April 17, 2019

2 Version

Version No.	Date	Description
00	*April 17, 2019*	*Original*

3 Contents

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.407 (g)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.407 (a)	Pass
26dB Occupied Bandwidth	15.407 (a)	Pass
6dB Emission Bandwidth	15.407(e)	Pass
Power Spectral Density	15.407 (a)	Pass
Band Edge	15.407(b)	Pass
Spurious Emission	15.205/15.209	Pass
Frequency Stability	15.407(g)	Pass

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

5 General Information

5.1 Client Information

Applicant:	Shenzhen Bilian Electronic Co., Ltd
Address of Applicant:	Building B1, Zhongxing Industrial Zone, Juling,Jutang Community, Guanlan street, Longhua New District, Shenzhen, Guangdong, P.R. China
Manufacturer:	Shenzhen Bilian Electronic Co., Ltd
Address of Manufacturer:	Building B1, Zhongxing Industrial Zone, Juling,Jutang Community, Guanlan street, Longhua New District, Shenzhen, Guangdong, P.R. China

5.2 General Description of E.U.T.

Product Name:	IEEE 802.11 a/b/g/n/ac 2T2R SDIO WIFI And BT Module
Model No.:	BL-8822SSA3
Operation Frequency:	Band 1: 5180MHz-5240MHz Band 4: 5745MHz-5825MHz
Operation mode:	Indoor used
Channel numbers:	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1
Channel separation:	802.11a/n/ac(HT2): 20MHz, 802.11n/ac(HT40): 40MHz, 802.11ac(HT80): 80MHz
Modulation technology: (IEEE 802.11a/n/ac)	BPSK, QPSK,16-QAM, 64-QAM
Data speed(IEEE 802.11a)	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps,36Mbps,48Mbps, 54Mbps
Data speed (IEEE 802.11n/ac):	Up to 300Mbps
Antenna Type:	External antenna
Antenna gain:	2.0dBi
Power supply:	DC3.3V

Operation Frequency each of channel

Band 1					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	39	5190MHz	42	5210MHz
40	5200MHz	45	5230MHz		
44	5220MHz				
48	5240MHz				
Band 4					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	155	5775MHz
153	5765MHz	159	5795MHz		
157	5785MHz				
161	5805MHz				
165	5825MHz				

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:

Band 1					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
The lowest channel	5180MHz	The lowest channel	5190MHz	The middle channel	5210MHz
The middle channel	5200MHz	The highest channel	5230MHz		
The highest channel	5240MHz				
Band 4					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
The lowest channel	5745MHz	The lowest channel	5755MHz	The middle channel	5775MHz
The middle channel	5785MHz	The highest channel	5795MHz		
The highest channel	5825MHz				

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13Mbps
802.11ac(HT20)	6.5Mbps
802.11ac(HT40)	13.5Mbps
802.11ac(HT80)	29.3Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 6 Mbps for 802.11a, 6.5 Mbps for 802.11n20 and 13 Mbps for 802.11n40. All test items for 802.11a and 802.11n were performed with duty cycle above 98%, meet the requirements of KDB789033.

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number
DELL	MONITOR	S2817Q	N/A
DELL	KEYBOARD	KB216d	05HDWJ
Lenovo	MOUSE	SM-8823	SM50L24506
DELL	PC	Vostro3668	B070NR2

5.5 Test Facility

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

● FCC — Designation No.: CN1252

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd 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. Designation CN1252.

●ISED — CAB identifier No.: CN0028

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

5.6 Laboratory Location

All tests were performed at:

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.

IOT Test Centre of BlueAsia

No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, Guangdong, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

5.7 Test Instruments list

Radiated Emission:

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SKET	9m*6m*6m	966	06-10-2018	06-09-2023
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2018	07-13-2019
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2018	07-13-2019
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Pre-amplifier	SKET	N/A	N/A	07-19-2018	07-18-2019
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2018	05-23-2019
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2019	03-20-2020
8	Controller	SKET	N/A	N/A	N/A	N/A
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2018	05-23-2019
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2018	05-23-2019

Conducted Emission:

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	06-10-2018	06-09-2019
2	LISN	CHASE	MN2050D	1447	12-18-2018	12-17-2019
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	07-19-2018	07-18-2019
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A
5	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2018	07-18-2019

RF Conducted Test:

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Spectrum Analyzer	Agilent	N9030A	MY50510123	05-24-2018	05-23-2019
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2018	05-23-2019
3	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2018	05-23-2019
4	Signal Generator	Agilent	E8257D	MY44320250	05-24-2018	05-23-2019
5	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO27	05-24-2018	05-23-2019
6	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO28	05-24-2018	05-23-2019

7	DC Power Supply	LODESTAR	LP305DE	N/A	07-19-2018	07-18-2019
8	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2018	07-18-2019

6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 E Section 15.203 /407(a)

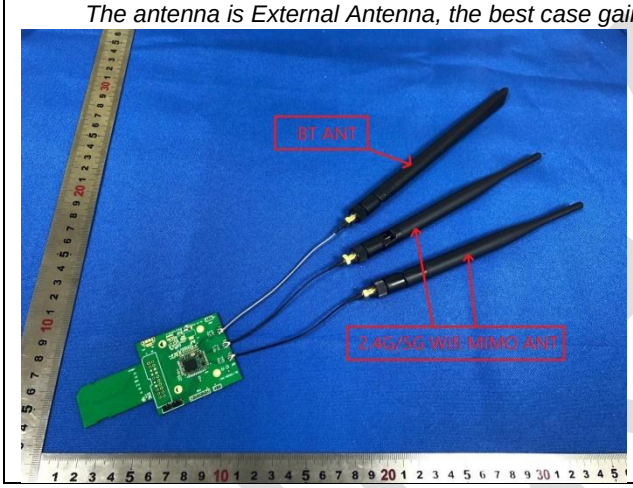
15.203 requirement:

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.

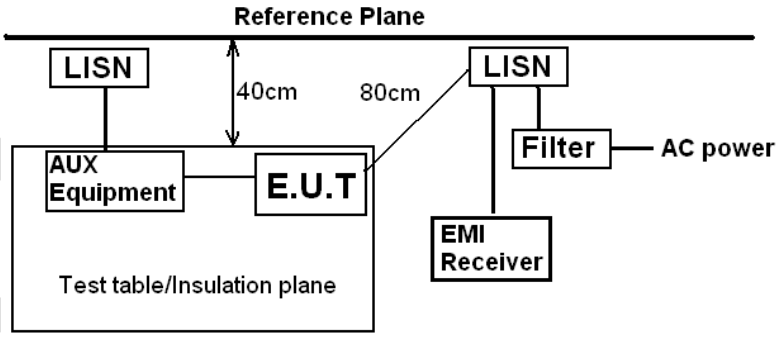
This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

E.U.T Antenna:	

The antenna is External Antenna, the best case gain of the antenna is 2.0dBi

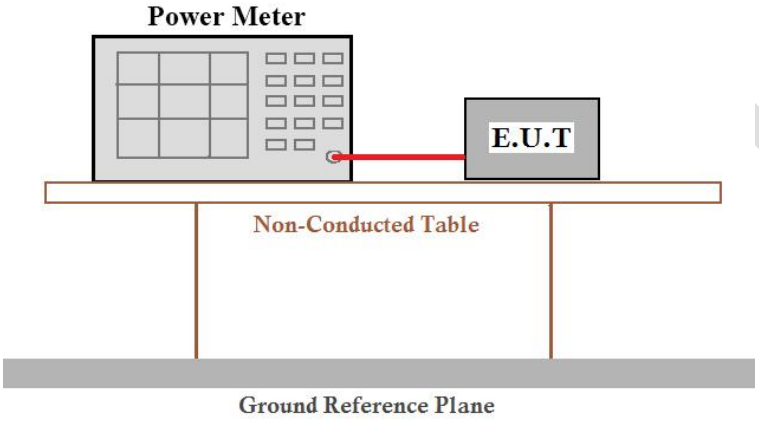


6.2 Conducted Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Class / Severity:</td><td>Class B</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
* Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Test procedure</td><td>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. 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.</td></tr>
<tr><td>Test setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 5.7 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 5.3 for details.</td></tr>
<tr><td>Test results:</td><td>N/A</td></tr>
</table>

6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (ii) & (a) (3)
Test Method:	ANSI C63.10: 2013, KDB 789033
Limit:	**Band 1:** 1 W (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.); **Band 4:** 1W.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

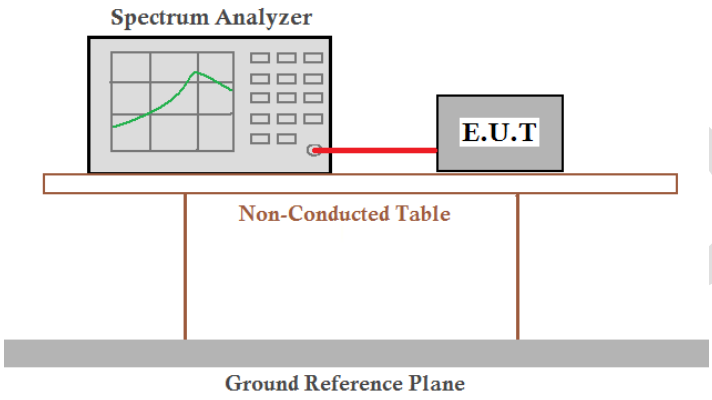
Band 1

Mode	Test CH	Conducted Output power(dBm)		Total Power dBm	Limit (dBm)	Result
		ANT1	ANT2			
802.11a	Lowest	10.71	12.22	/	30.00	Pass
	Middle	9.51	11.15	/	30.00	Pass
	Highest	9.36	12.66	/	30.00	Pass
802.11n(HT20) MIMO	Lowest	3.79	5.81	7.93	30.00	Pass
	Middle	2.45	4.72	6.74	30.00	Pass
	Highest	2.57	6.16	7.74	30.00	Pass
802.11n(HT40) MIMO	Lowest	3.64	5.66	7.78	30.00	Pass
	Highest	2.94	6.38	8.00	30.00	Pass
802.11ac(HT20) MIMO	Lowest	5.09	6.66	8.96	30.00	Pass
	Middle	3.95	5.63	7.88	30.00	Pass
	Highest	4.11	7.12	8.88	30.00	Pass
802.11ac(HT40) MIMO	Lowest	4.83	6.51	8.76	30.00	Pass
	Highest	4.13	7.17	8.92	30.00	Pass
802.11ac(HT80) MIMO	Lowest	3.29	5.27	7.40	30.00	Pass

Band 4

Mode	Test CH	Conducted Output power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		ANT1	ANT2			
802.11a	Lowest	14.03	15.33	/	30.00	Pass
	Middle	14.69	15.18	/	30.00	Pass
	Highest	14.03	13.88	/	30.00	Pass
802.11n(HT20) MIMO	Lowest	13.80	15.17	17.55	30.00	Pass
	Middle	14.06	14.88	17.50	30.00	Pass
	Highest	13.57	13.35	16.47	30.00	Pass
802.11n(HT40) MIMO	Lowest	12.77	13.78	16.31	30.00	Pass
	Highest	12.95	13.34	16.16	30.00	Pass
802.11ac(HT20) MIMO	Lowest	9.10	10.24	12.72	30.00	Pass
	Middle	9.51	10.47	13.03	30.00	Pass
	Highest	9.06	9.17	12.13	30.00	Pass
802.11ac(HT40) MIMO	Lowest	9.49	10.74	13.17	30.00	Pass
	Highest	9.77	10.24	13.29	30.00	Pass
802.11ac(HT80) MIMO	Lowest	9.45	10.08	12.79	30.00	Pass

6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (5) and Section 15.407 (e)
Test Method:	ANSI C63.10:2013 and KDB 789033
Limit:	Band 1: N/A(26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz(6dB Bandwidth)
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

During the test, found the ANT2 port, which it is worse case.

Band 1:

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Emission Bandwidth (MHz)		
		802.11a	802.11n(HT20)	802.11ac(HT20)	802.11a	802.11n(HT20)	802.11ac(HT20)
36	5180.00	17.20	17.84	17.68	21.60	21.52	19.84
40	5200.00	17.12	17.76	17.76	21.76	21.68	20.00
48	5240.00	17.04	17.76	17.76	21.60	21.60	20.00

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Emission Bandwidth (MHz)	
		802.11n(HT40)	802.11ac(HT40)	802.11n(HT40)	802.11ac(HT40)
38	5190.00	36.32	36.16	40.96	39.36
46	5230.00	36.32	36.16	41.12	39.36

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)
		802.11ac(HT80)	802.11ac(HT80)
42	5210.00	75.84	78.72

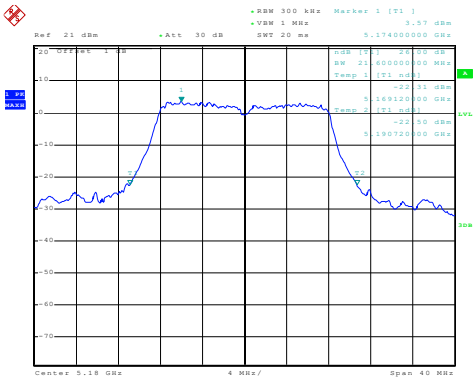
Band 4:

Test CH	6dB Emission Bandwidth (MHz)						Limit (KHz)	Result
	802.11a	802.11n(HT20)	802.11ac(HT20)	802.11n(HT40)	802.11ac(HT40)	802.11ac(HT80)		
Lowest	16.48	17.76	17.84	36.80	36.64	---	>500	Pass
Middle	16.48	17.76	17.84	---	---	76.48		
Highest	16.56	17.76	17.84	36.80	36.64	---		

Test plot as follows:

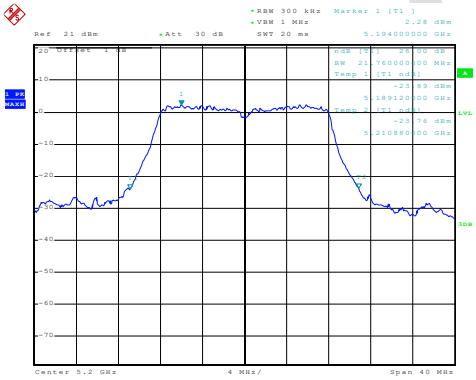
Band 1:

26 dB EBW - 802.11a



Date: 11.APR.2019 13:09:48

Lowest channel



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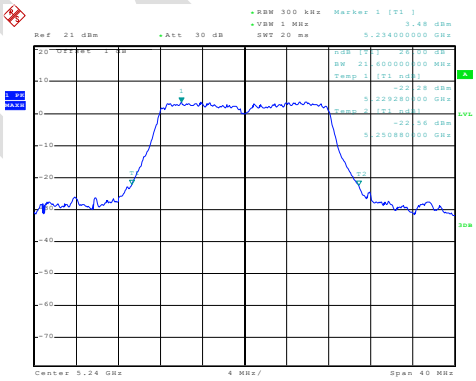
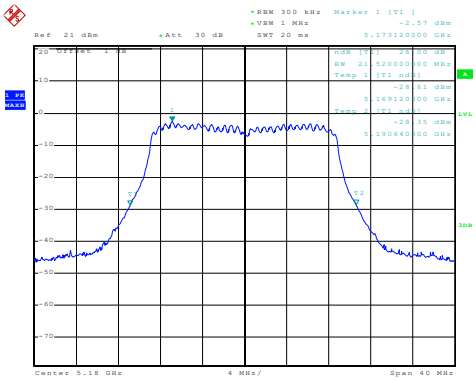
Middle channel



Date: 11.APR.2019 13:12:42

Highest channel

802.11n(HT20)



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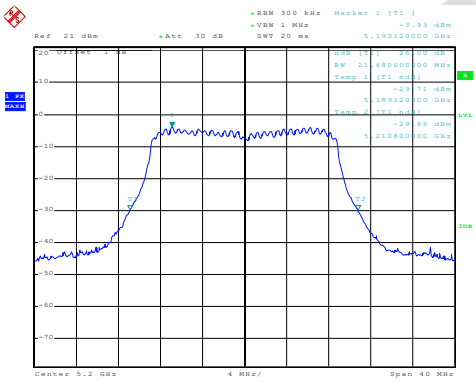
Lowest channel



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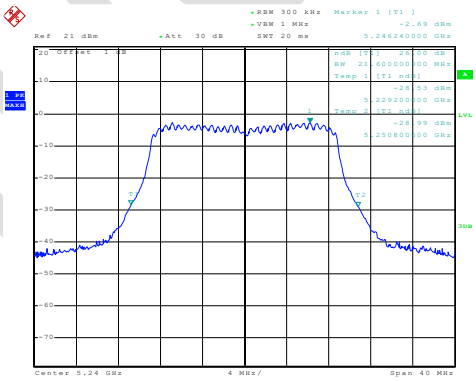
Middle channel



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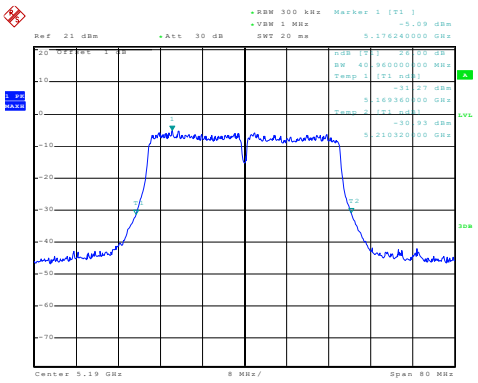
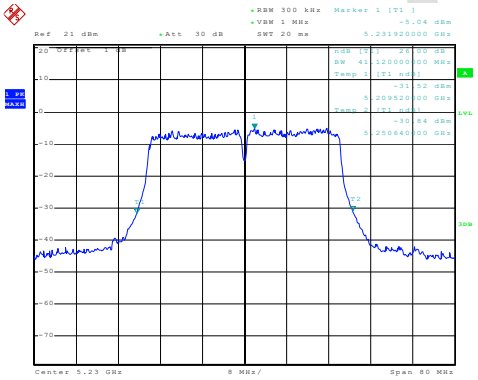
Highest channel

802.11n(HT40)

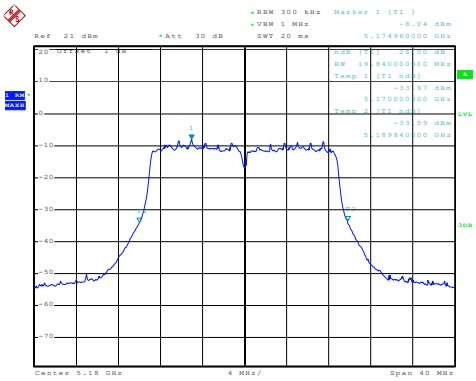


Lowest channel



Highest channel

802.11ac(HT20)



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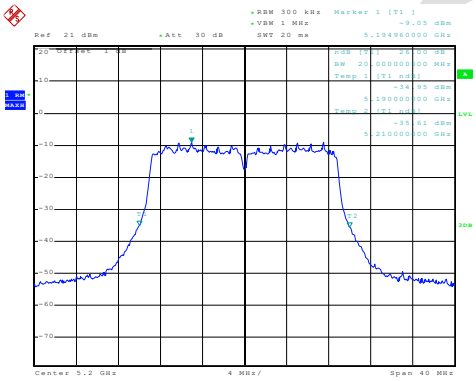
Lowest channel



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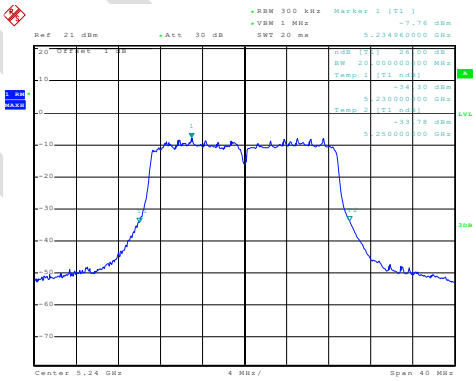
Middle channel



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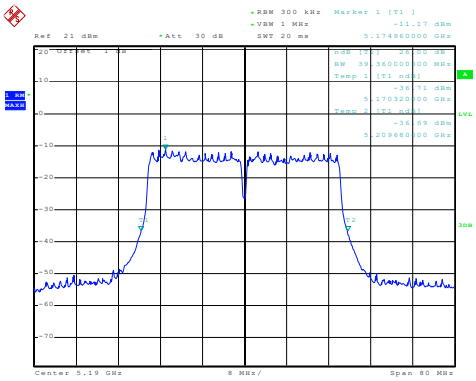
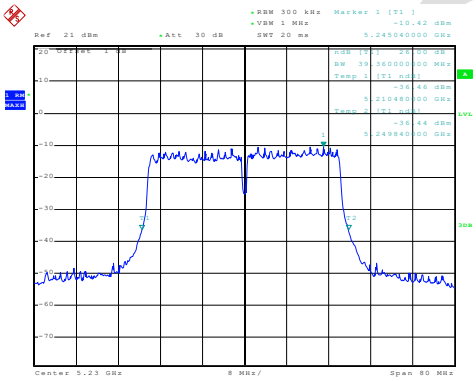
Highest channel

802.11ac(HT40)

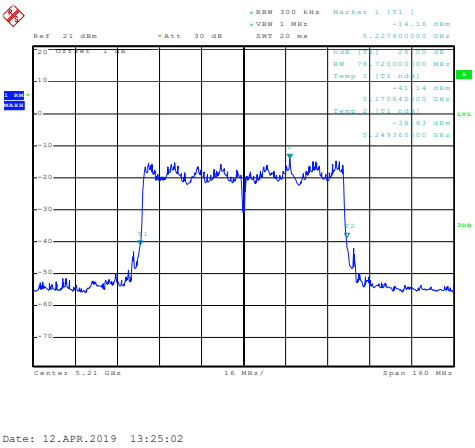


Lowest channel



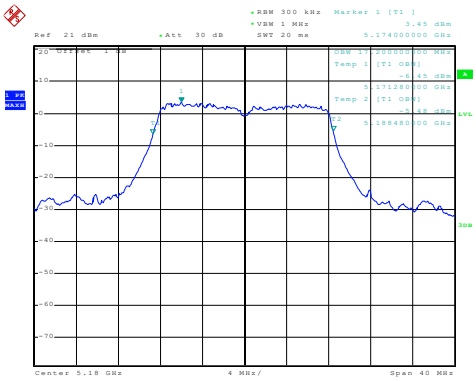
Highest channel

802.11ac(HT80)

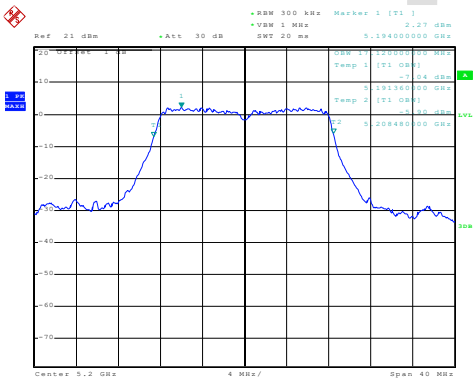


Middle channel

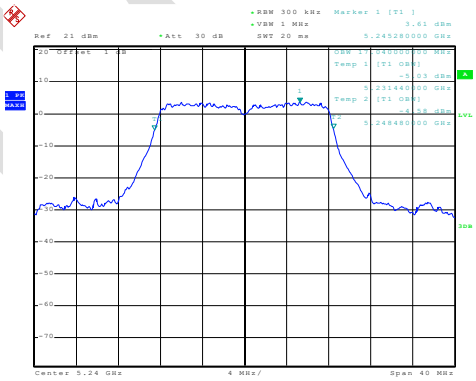
99% OBW - 802.11a



Lowest channel

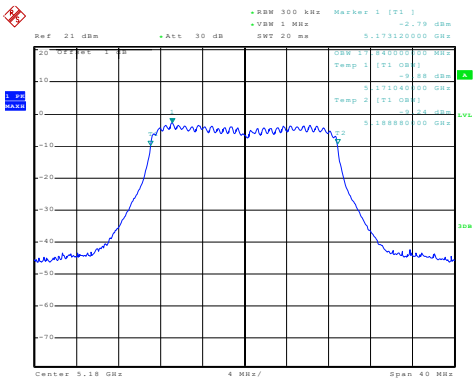


Middle channel



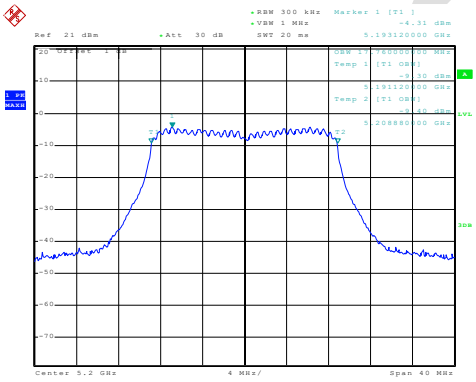
Highest channel

802.11n(HT20)



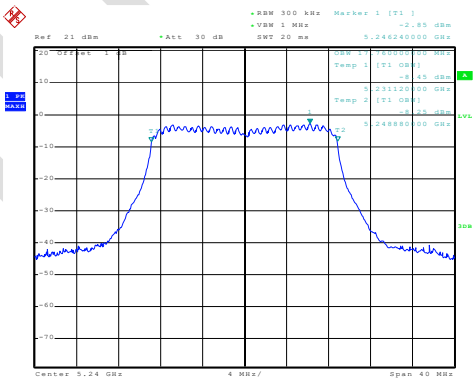
Date: 11.APR.2019 15:37:33

Lowest channel



Date: 11.APR.2019 15:38:51

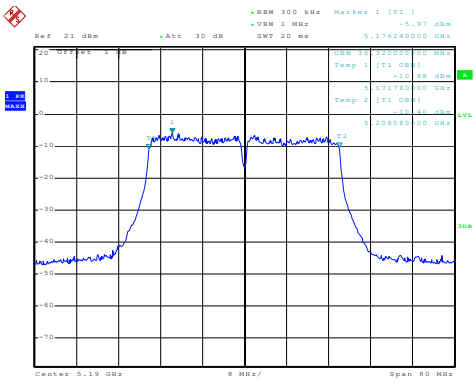
Middle channel



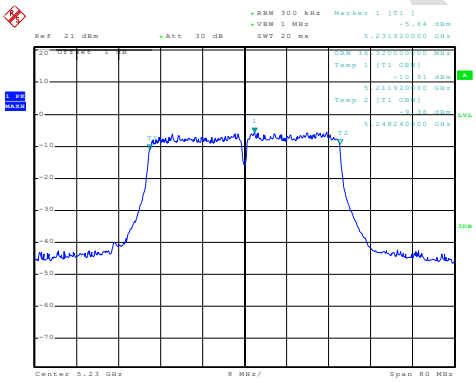
Date: 11.APR.2019 15:39:52

Highest channel

802.11n(HT40)

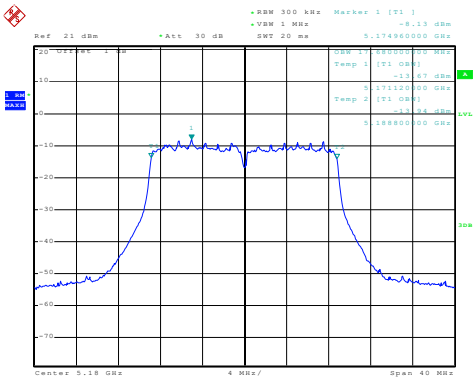


Lowest channel



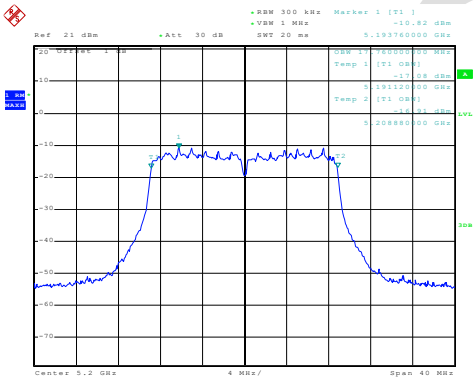
Highest channel

802.11ac(HT20)



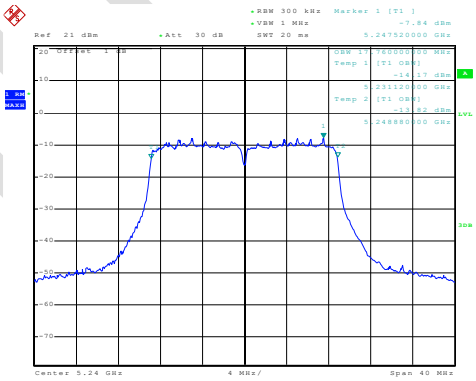
Date: 12.APR.2019 15:34:44

Lowest channel



Date: 12.APR.2019 15:36:32

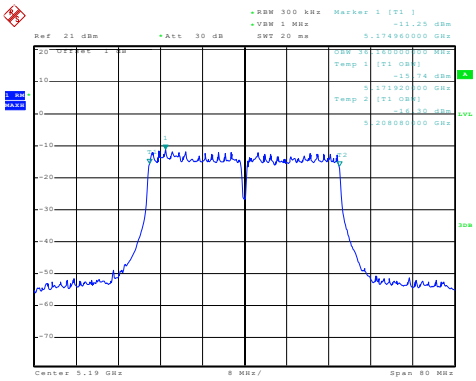
Middle channel



Date: 12.APR.2019 15:37:36

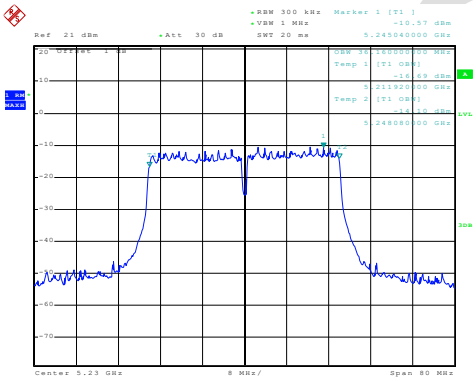
Highest channel

802.11ac(HT40)



Date: 12.APR.2019 15:39:12

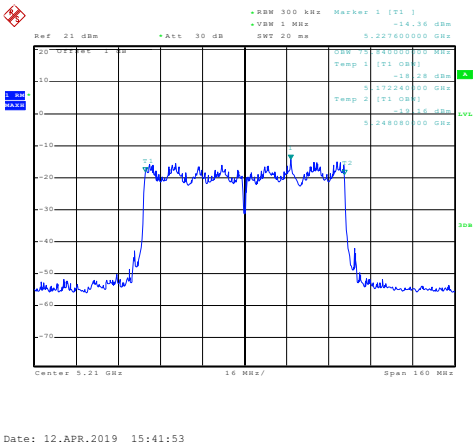
Lowest channel



Date: 12.APR.2019 15:40:14

Highest channel

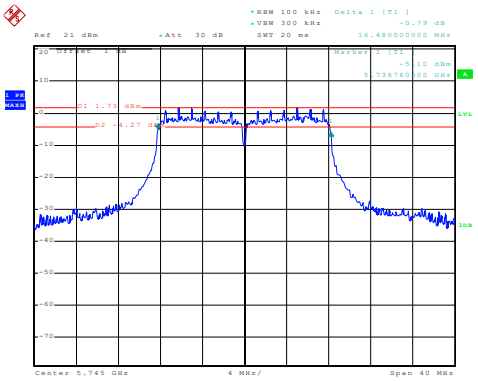
802.11ac(HT80)



Middle channel

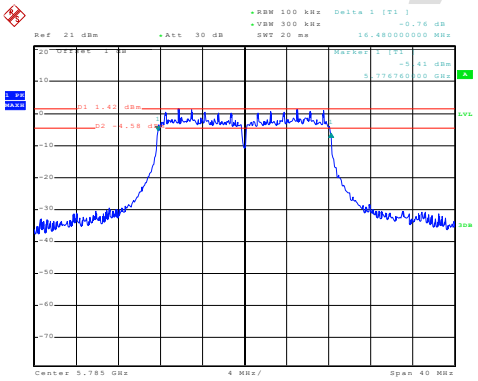
Band 4:

6 dB EBW - 802.11a



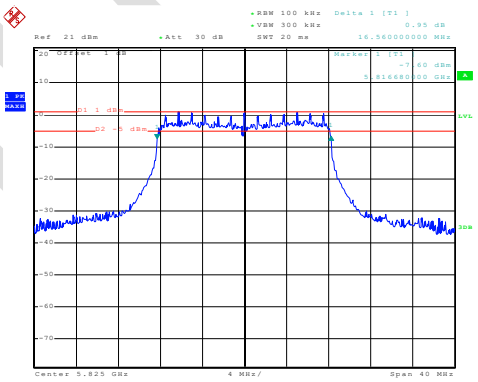
Date: 11.APR.2019 17:15:52

Lowest channel



Date: 11.APR.2019 17:18:18

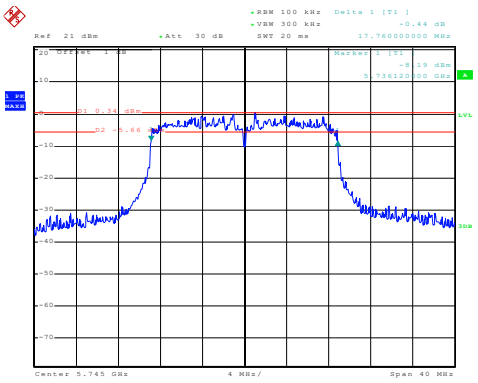
Middle channel



Date: 11.APR.2019 17:20:47

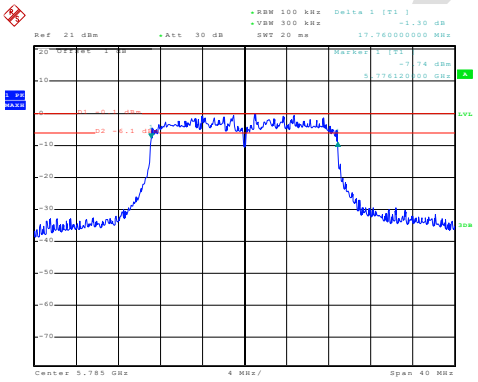
Highest channel

802.11n(HT20)



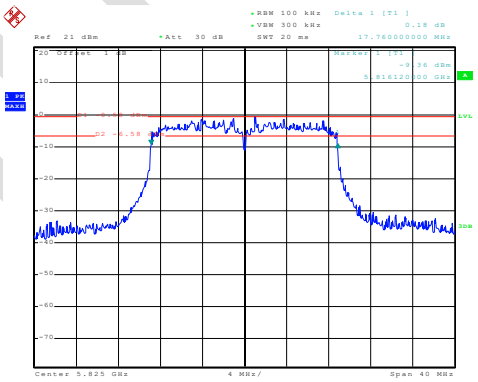
Date: 11.APR.2019 17:23:24

Lowest channel



Date: 11.APR.2019 17:25:52

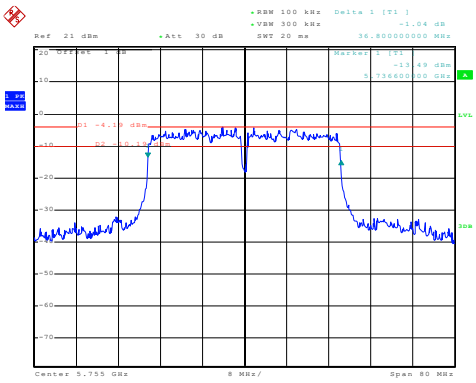
Middle channel



Date: 11.APR.2019 17:28:33

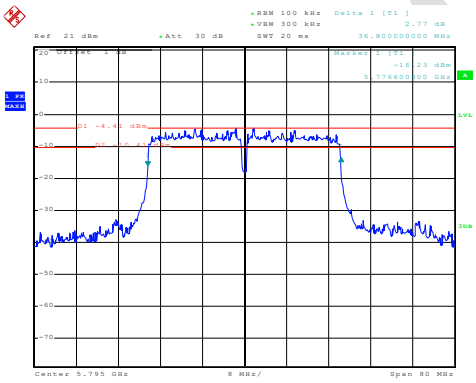
Highest channel

802.11n(HT40)



Date: 11.APR.2019 17:33:59

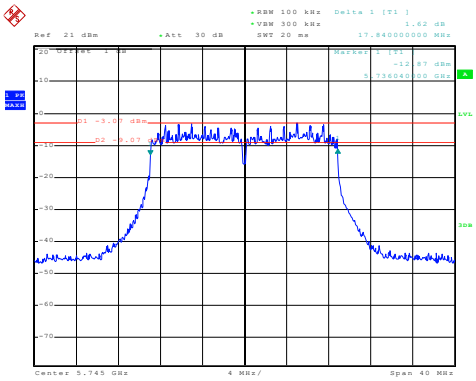
Lowest channel



Date: 11.APR.2019 17:37:11

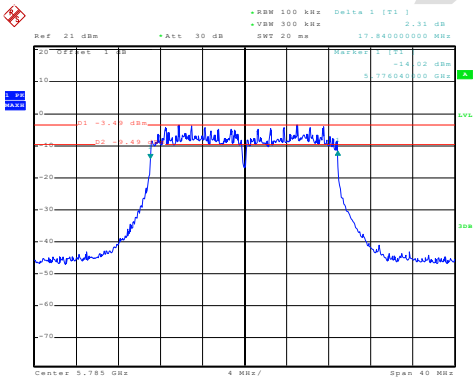
Highest channel

802.11ac(HT20)



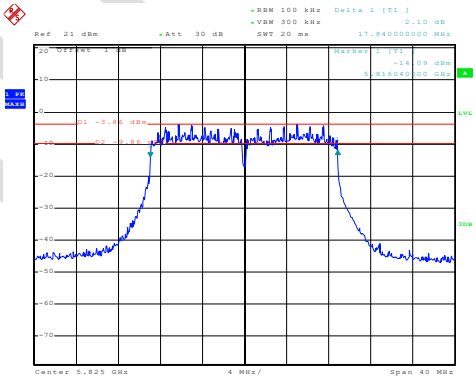
Date: 11.APR.2019 17:39:58

Lowest channel



Date: 11.APR.2019 17:42:36

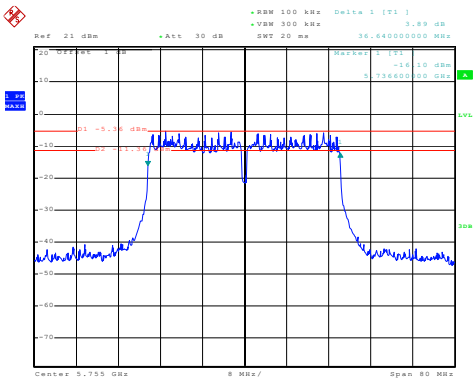
Middle channel



Date: 11.APR.2019 17:45:22

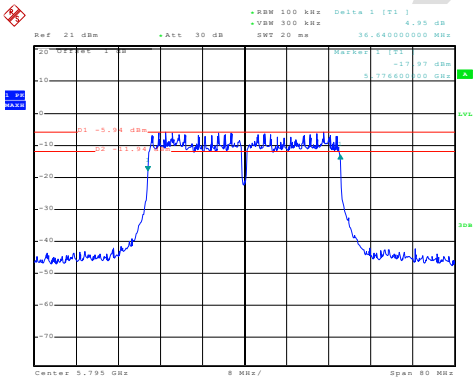
Highest channel

802.11ac(HT40)



Date: 11.APR.2019 17:49:26

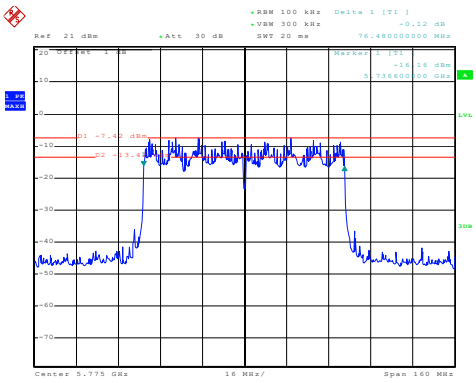
Lowest channel



Date: 11.APR.2019 17:51:31

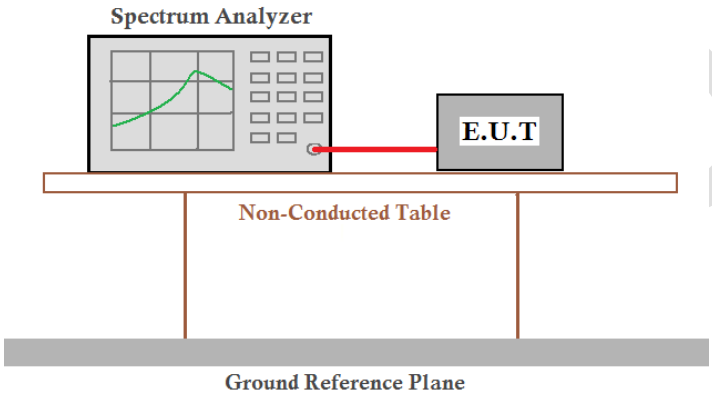
Highest channel

802.11ac(HT80)



Middle channel

6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (ii) & (a) (3)
Test Method:	ANSI C63.10:2013, KDB 789033
Limit:	**Band 1: 17 dBm/MHz** (The maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.); **Band 4: 30dBm/500kHz**
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Band 1

Mode	Test CH	PSD(dBm)		Total (dBm)	Limit (dBm)	Result
		ANT1	ANT2			
802.11a	Lowest	0.71	0.38	/	17.00	Pass
	Middle	-0.42	-0.58	/	17.00	Pass
	Highest	0.76	0.87	/	17.00	Pass
802.11n(HT20) MIMO	Lowest	-6.00	-6.43	-3.20	17.00	Pass
	Middle	-7.59	-7.38	-4.47	17.00	Pass
	Highest	-6.48	-6.22	-3.34	17.00	Pass
802.11n(HT40) MIMO	Lowest	-9.02	-9.41	-6.20	17.00	Pass
	Highest	-8.91	-8.82	-5.85	17.00	Pass
802.11ac(HT20) MIMO	Lowest	-5.17	-5.80	-2.46	17.00	Pass
	Middle	-6.17	-6.74	-3.44	17.00	Pass
	Highest	-5.12	-5.27	-2.18	17.00	Pass
802.11ac(HT40) MIMO	Lowest	-8.24	-8.53	-5.37	17.00	Pass
	Highest	-7.86	-7.80	-4.82	17.00	Pass
802.11ac(HT80) MIMO	Middle	-11.01	-11.45	-8.21	17.00	Pass

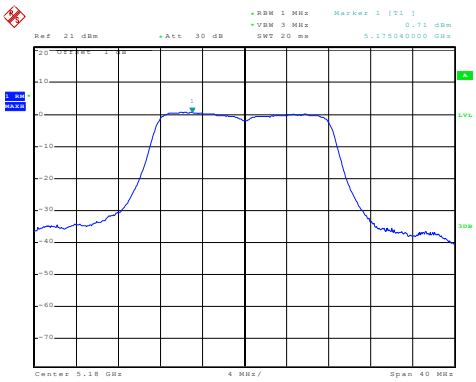
Band 4

Mode	Test CH	PSD(dBm)		Total (dBm)	Limit (dBm)	Result
		ANT1	ANT2			
802.11a	Lowest	5.57	2.28	/	30.00	Pass
	Middle	4.25	3.30	/	30.00	Pass
	Highest	3.81	3.02	/	3.000	Pass
802.11n(HT20) MIMO	Lowest	5.52	3.16	7.46	30.00	Pass
	Middle	5.20	3.65	7.50	30.00	Pass
	Highest	4.64	3.28	7.02	30.00	Pass
802.11n(HT40) MIMO	Lowest	1.83	-0.99	3.66	30.00	Pass
	Highest	1.26	-0.24	3.58	30.00	Pass
802.11ac(HT20) MIMO	Lowest	0.14	-2.71	1.96	3.000	Pass
	Middle	-0.21	-0.99	2.43	30.00	Pass
	Highest	-1.02	-0.87	2.07	30.00	Pass
802.11ac(HT40) MIMO	Lowest	-2.98	-3.68	-0.31	30.00	Pass
	Highest	-3.10	-2.98	-0.03	30.00	Pass
802.11ac(HT80) MIMO	Middle	-3.97	-6.85	-2.18	30.00	Pass

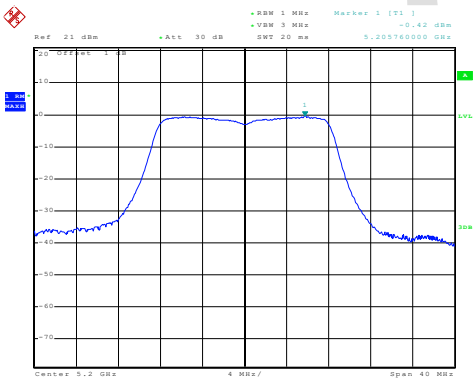
Test plot as follows:

Band 1: ANT1

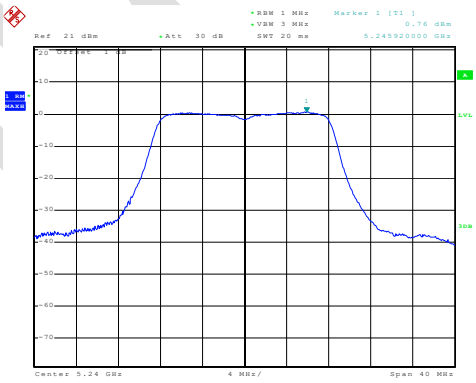
Test mode: 802.11a



Lowest channel

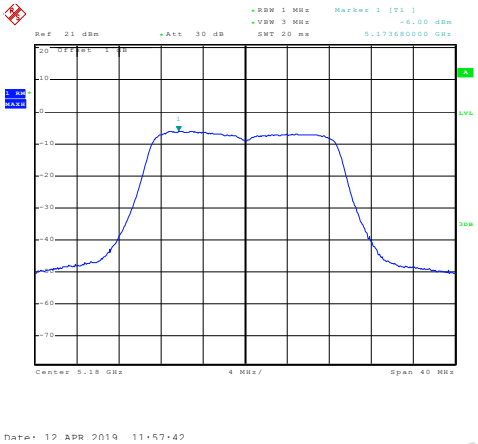


Middle channel

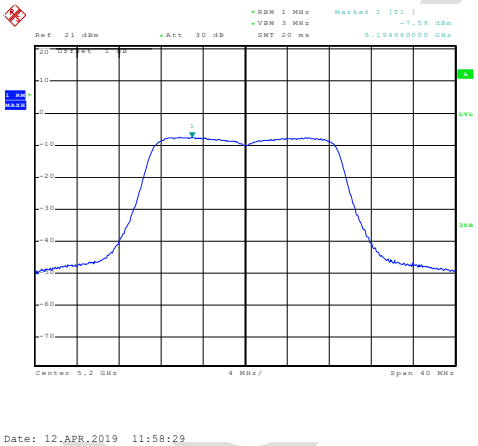


Highest channel

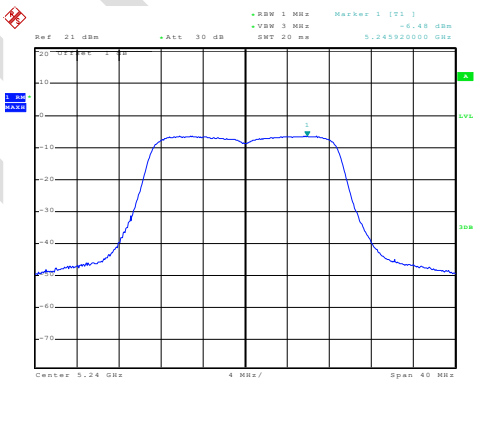
Test mode: 802.11n(HT20)



Lowest channel

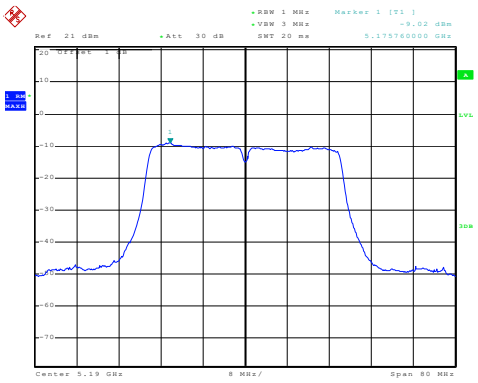


Middle channel

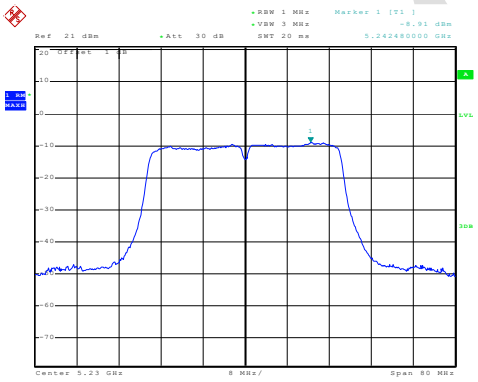


Highest channel

Test mode: 802.11n(HT40)

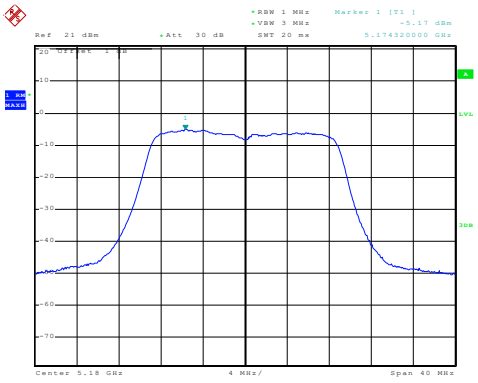


Lowest channel

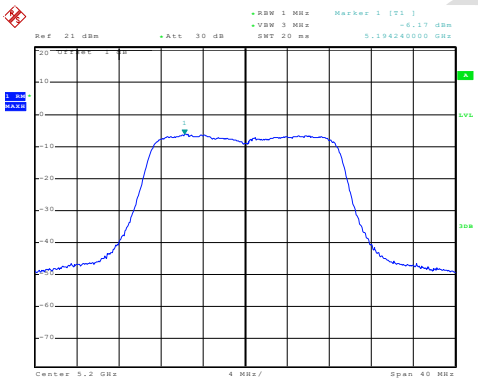


Highest channel

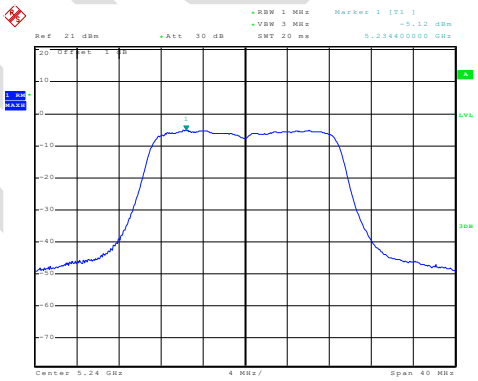
Test mode: 802.11ac(HT20)



Lowest channel

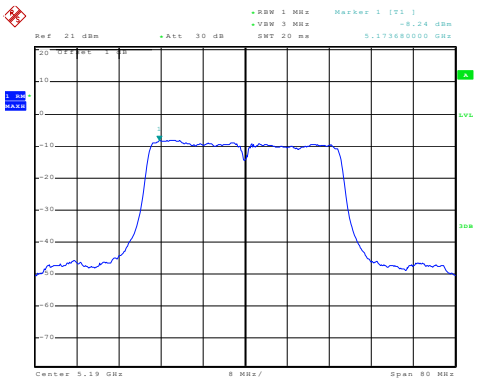


Middle channel

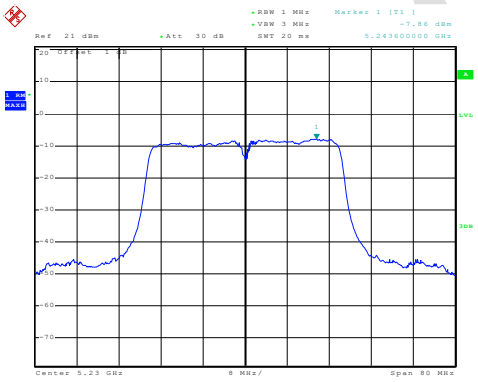


Highest channel

Test mode: 802.11ac(HT40)

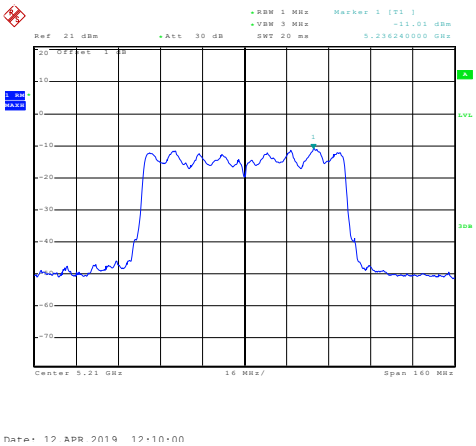


Lowest channel



Highest channel

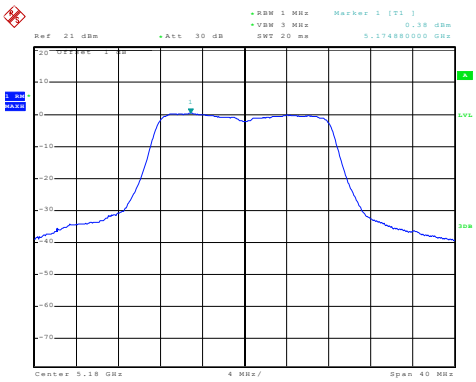
Test mode: 802.11ac(HT80)



Middle channel

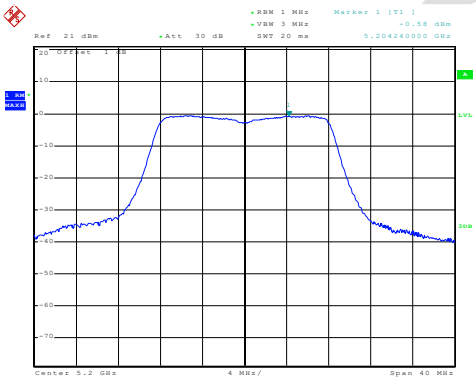
Band1 ANT2:

Test mode: 802.11a



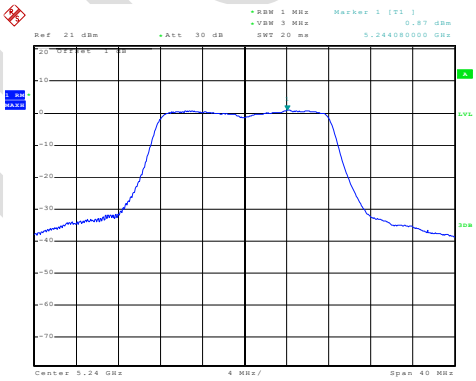
Date: 12.APR.2019 11:04:27

Lowest channel



Date: 12.APR.2019 11:02:14

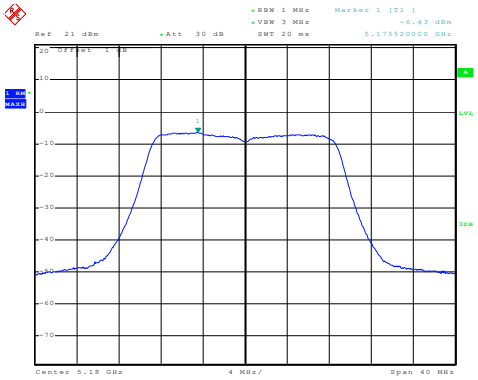
Middle channel



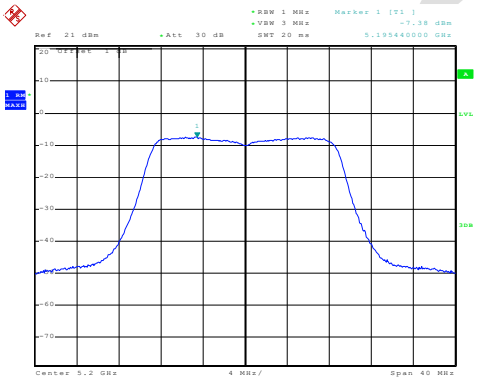
Date: 12.APR.2019 10:59:56

Highest channel

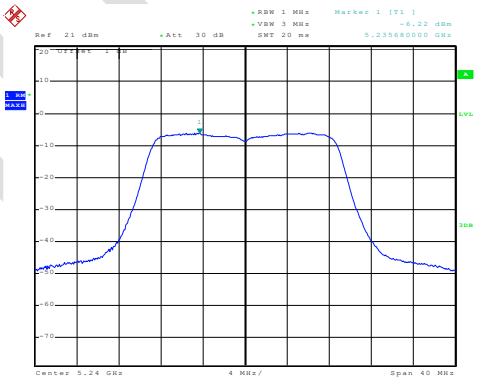
Test mode: 802.11n(HT20)



Lowest channel

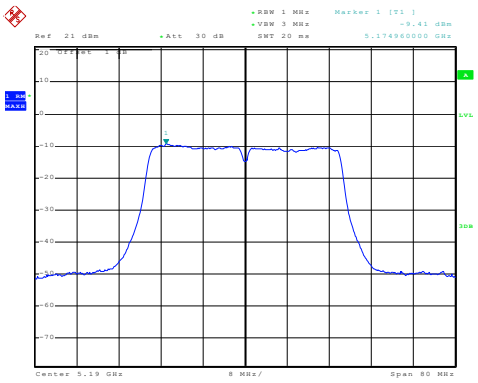


Middle channel

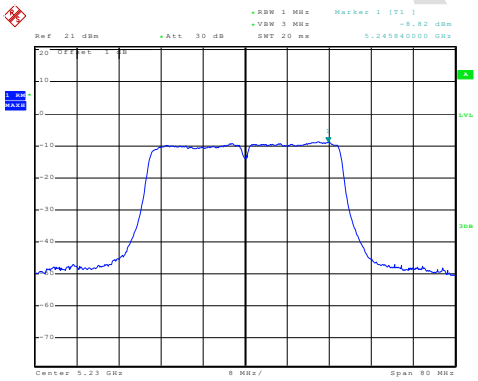


Highest channel

Test mode: 802.11n(HT40)

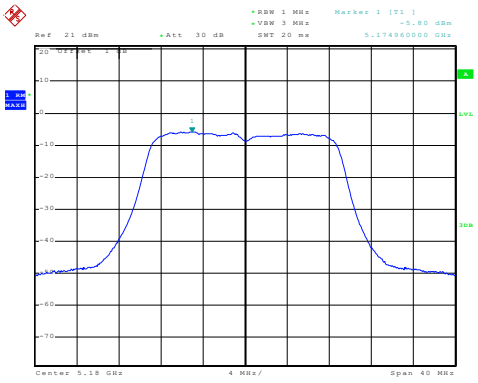


Lowest channel

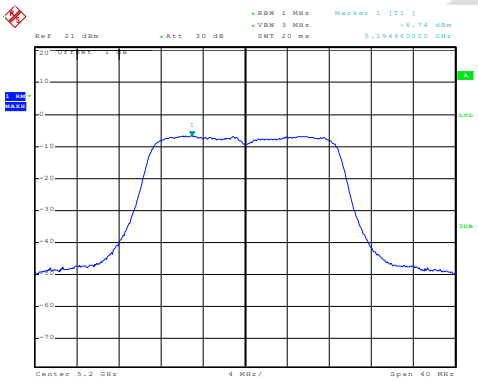


Highest channel

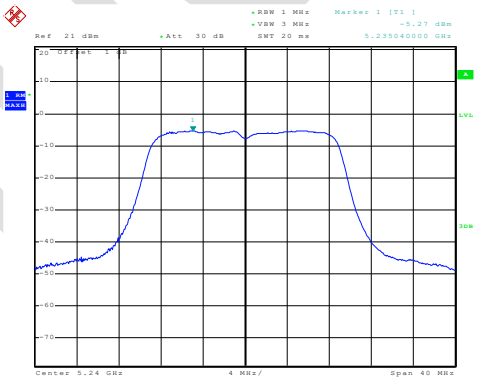
Test mode: 802.11ac(HT20)



Lowest channel

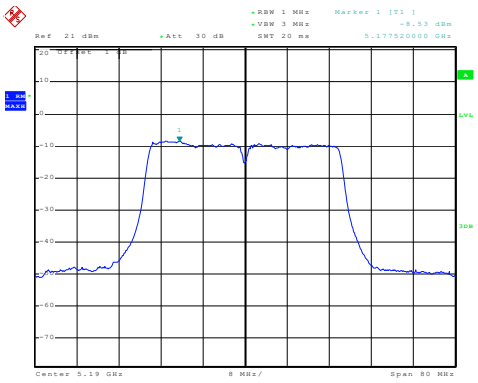


Middle channel

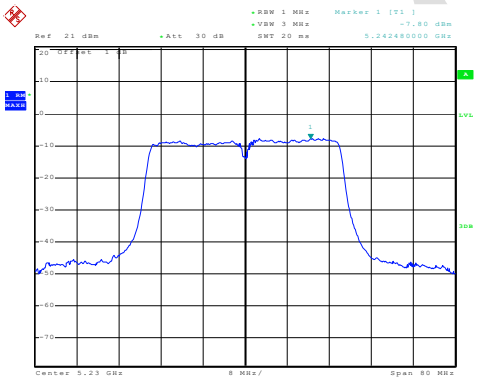


Highest channel

Test mode: 802.11ac(HT40)

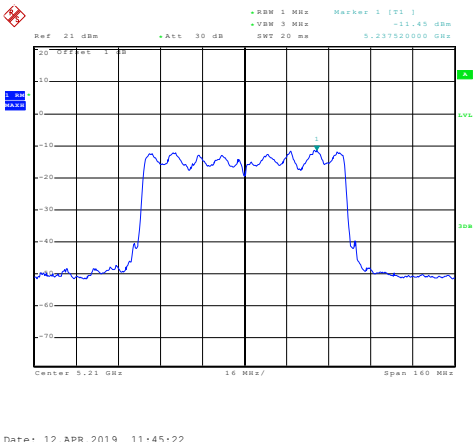


Lowest channel



Highest channel

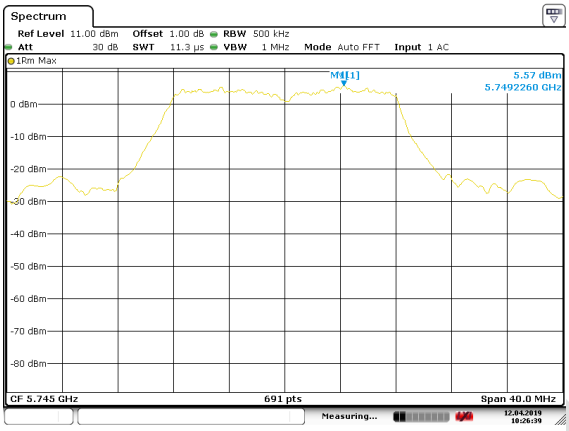
Test mode: 802.11ac(HT80)



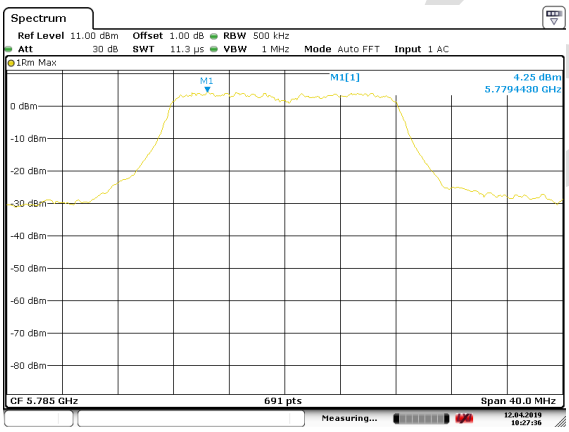
Middle channel

Band 4 ANT1:

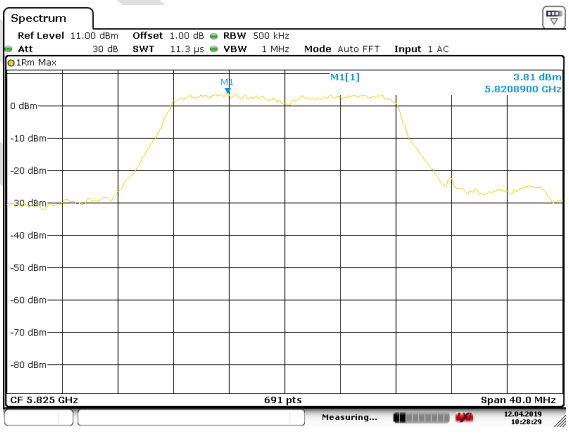
Test mode: 802.11a



Lowest channel

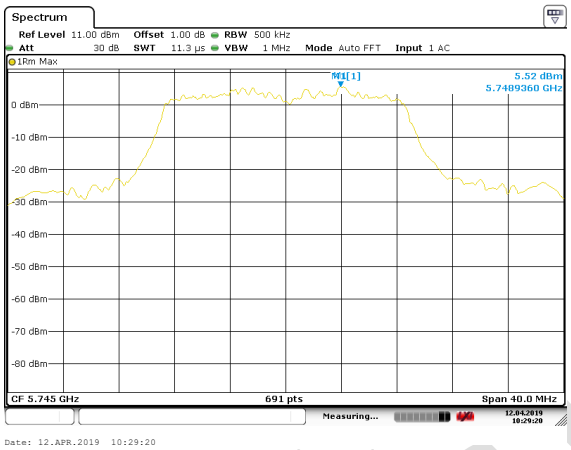


Middle channel

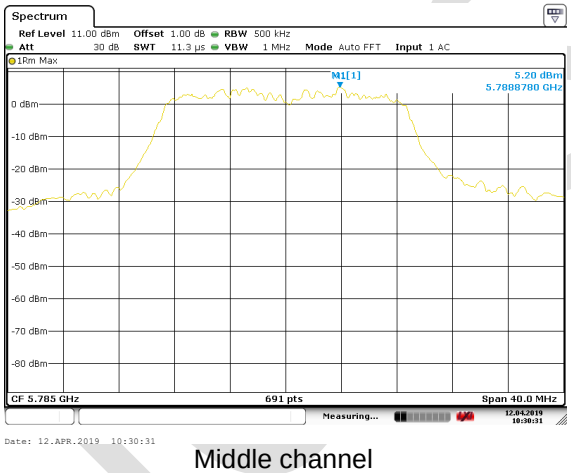


Highest channel

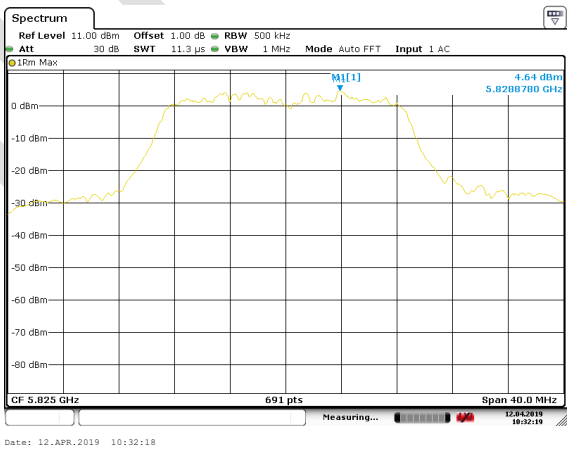
Test mode: 802.11n(HT20)



Lowest channel

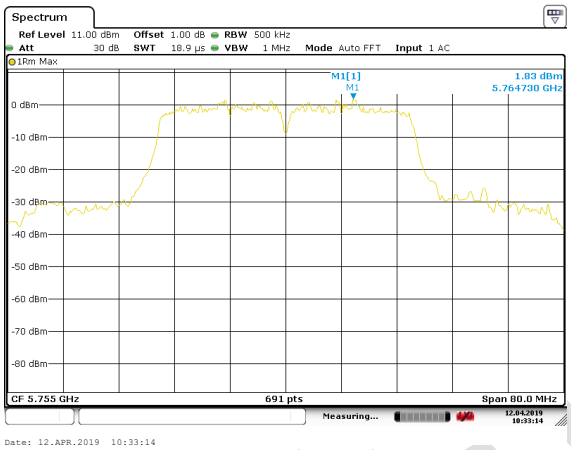


Middle channel

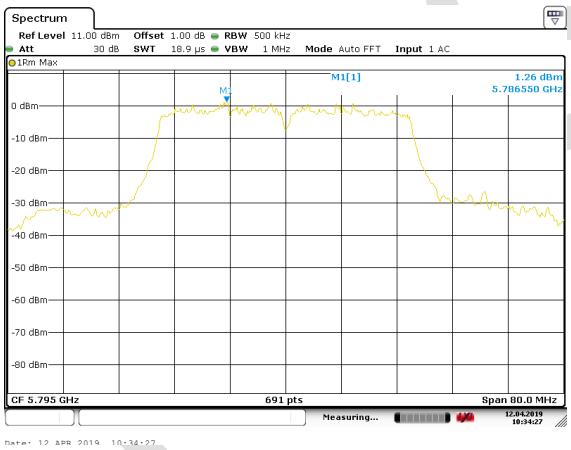


Highest channel

Test mode: 802.11n(HT40)

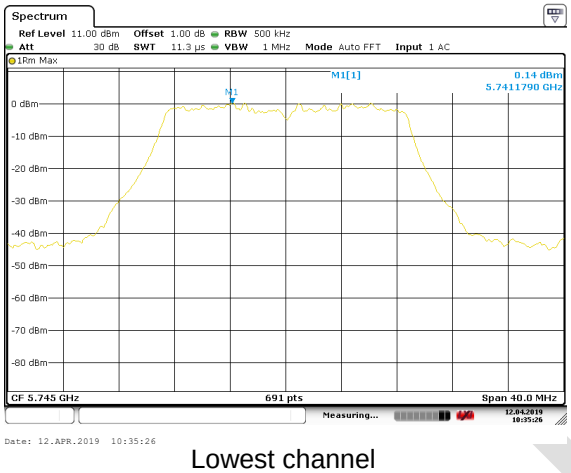


Lowest channel

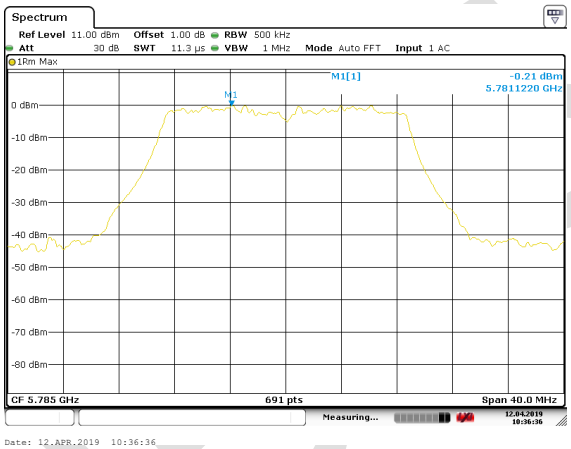


Highest channel

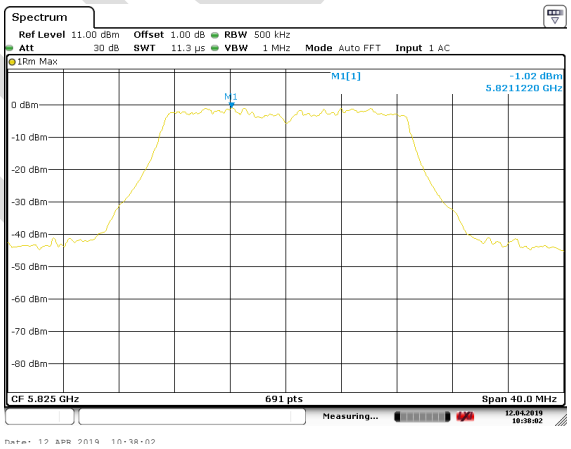
Test mode: 802.11ac(HT20)



Lowest channel

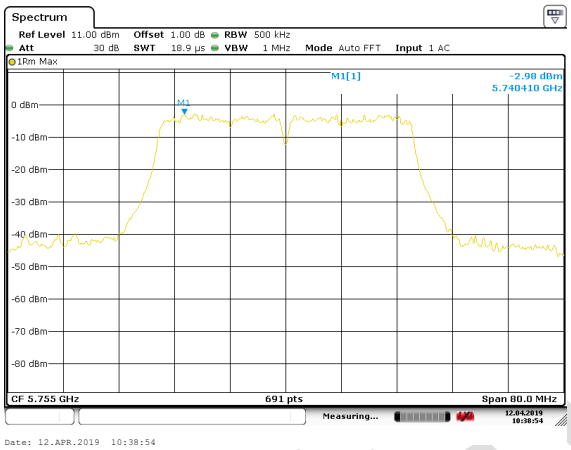


Middle channel

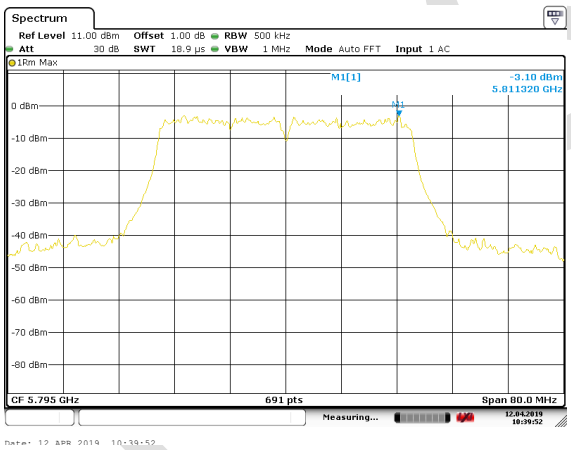


Highest channel

Test mode: 802.11ac(HT40)

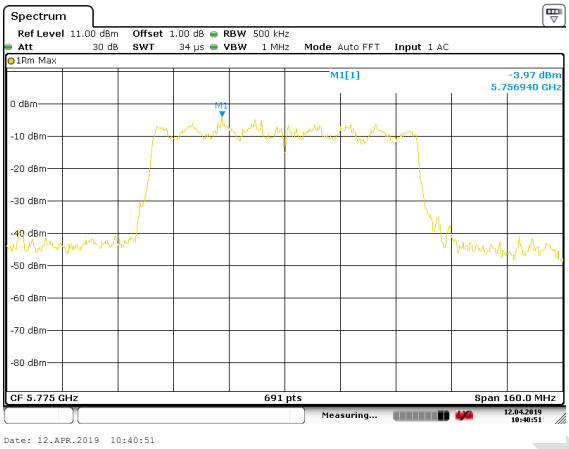


Lowest channel



Highest channel

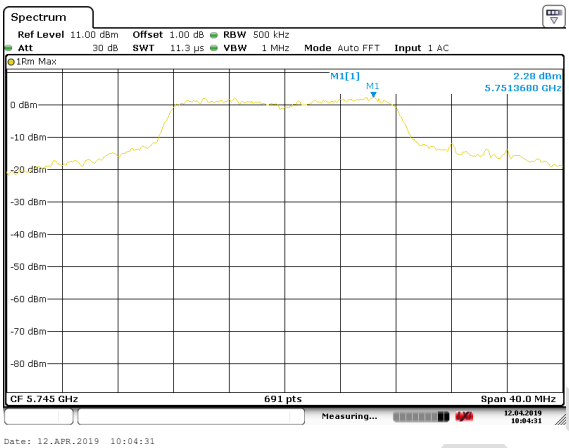
Test mode: 802.11ac(HT80)



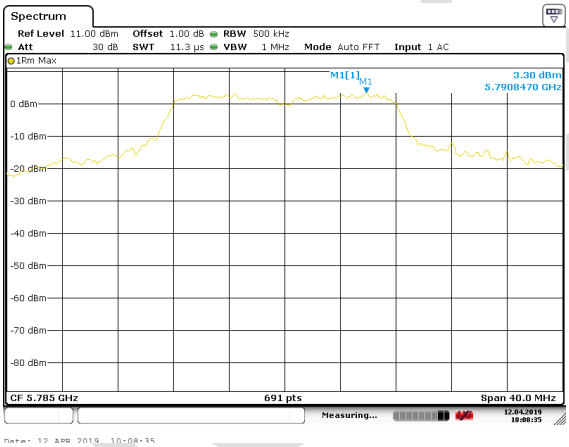
Middle channel

Band 4 ANT2:

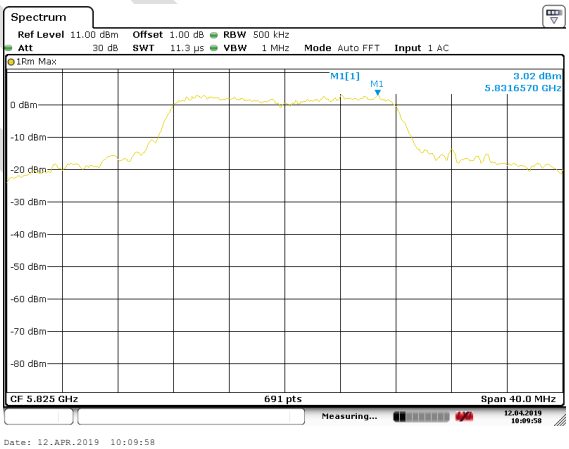
Test mode: 802.11a



Lowest channel

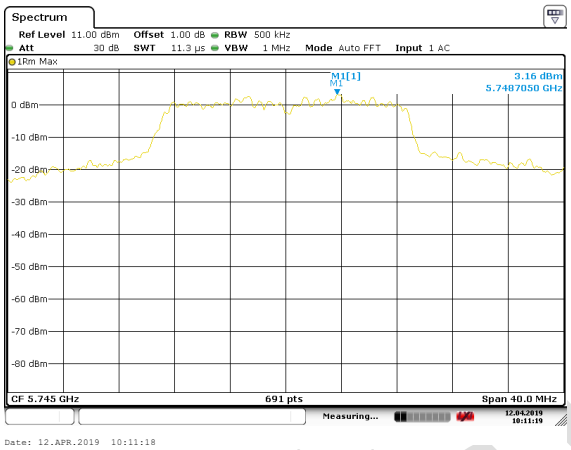


Middle channel

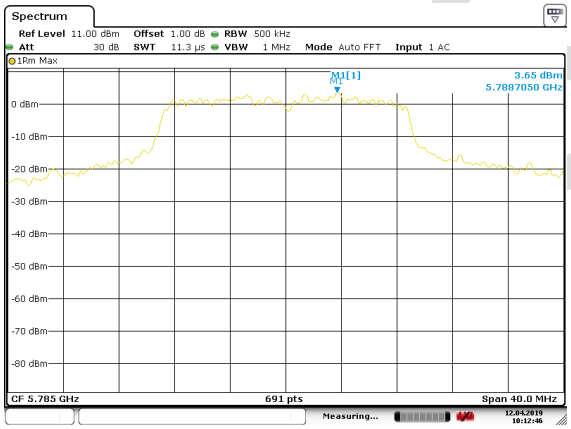


Highest channel

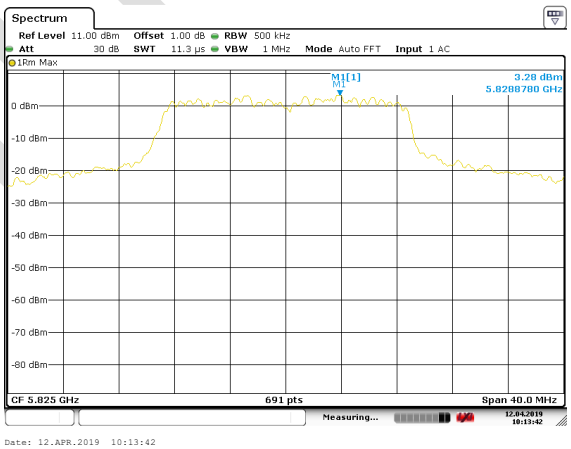
Test mode: 802.11n(HT20)



Lowest channel

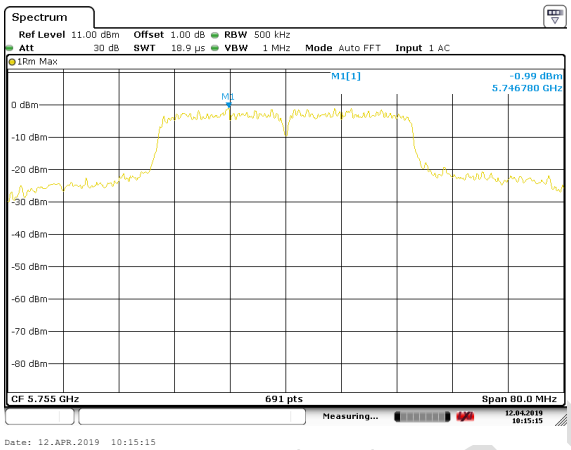


Middle channel

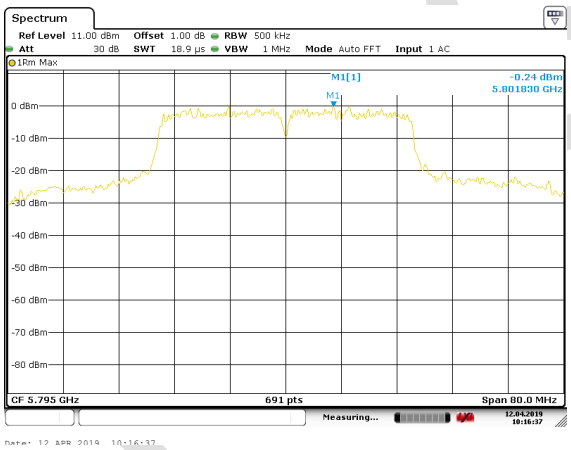


Highest channel

Test mode: 802.11n(HT40)

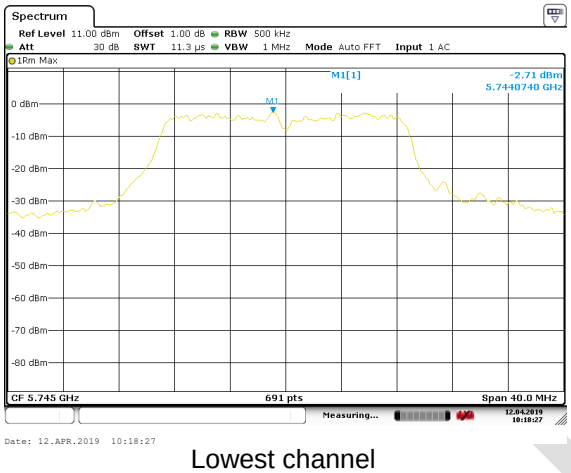


Lowest channel

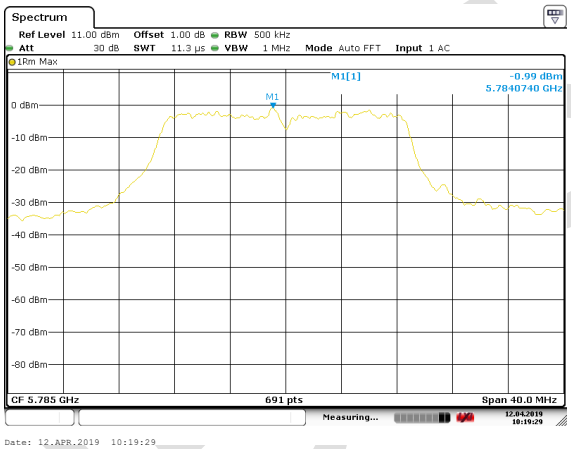


Highest channel

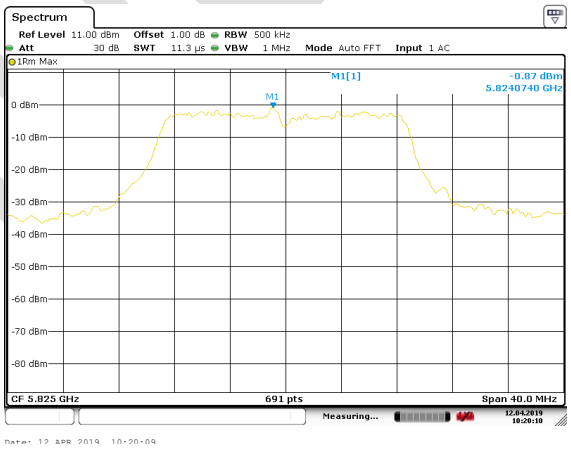
Test mode: 802.11ac(HT20)



Lowest channel

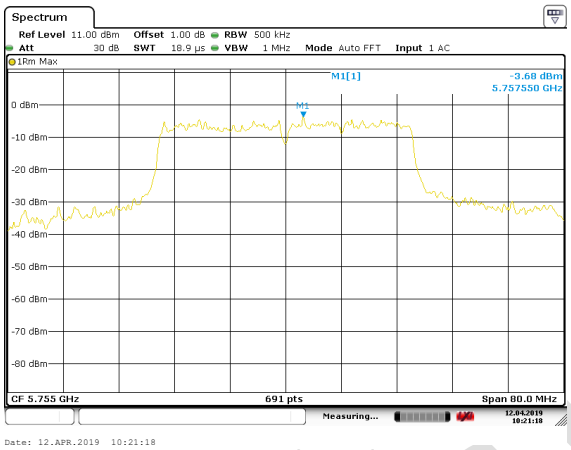


Middle channel

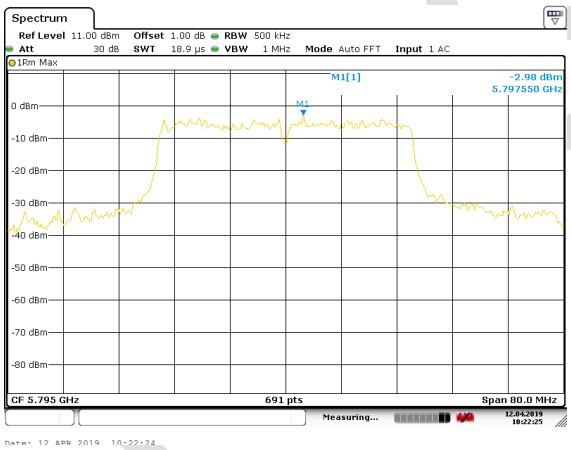


Highest channel

Test mode: 802.11ac(HT40)

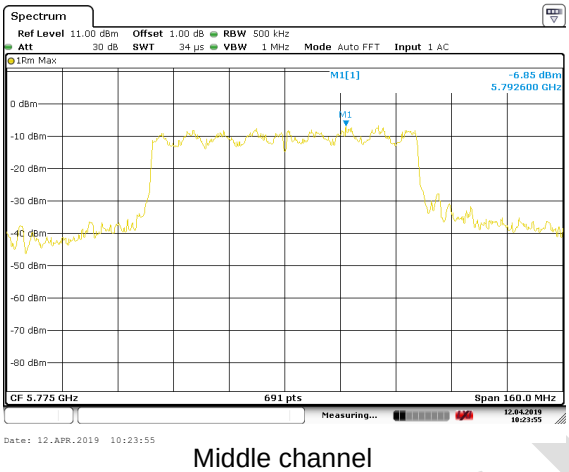


Lowest channel



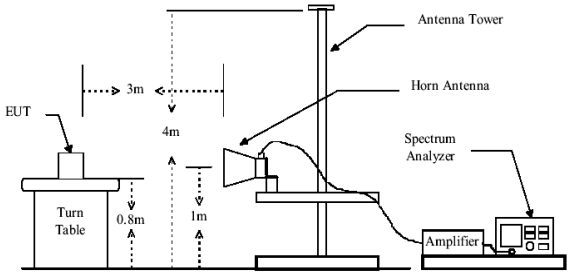
Highest channel

Test mode: 802.11ac(HT80)



Middle channel

6.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 (b)</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013 , KDB 789033</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td></td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td rowspan="2">Band 1</td><td>68.20</td><td>Peak Value</td></tr>
<tr><td>54.00</td><td>Average Value</td></tr>
<tr><td rowspan="2">Band 4</td><td>78.20</td><td>Peak Value</td></tr>
<tr><td>54.00</td><td>Average Value</td></tr>
<tr><td colspan="3">Remark:
1. Band 1 limit:
E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]= -27dBm.
2. Band 4 limit:
E[dBμV/m] = EIRP[dBm] + 95.2=78.2 dBuV/m, for EIPR[dBm]= -17dBm.</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters 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 rota 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 the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that 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.</td></tr>
<tr><td>Test setup:</td><td> 
</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 5.7 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td>Passed</td></tr>
</table>

Band 1:

ANT1:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	52.45	-6.86	45.59	68.20	-22.61	Horizontal
5150.00	52.73	-6.86	45.87	68.20	-22.33	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	40.63	-6.86	33.77	54.00	-20.23	Horizontal
5150.00	38.65	-6.86	31.79	54.00	-22.21	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.36	-6.35	47.01	68.20	-21.19	Horizontal
5350.00	52.81	-6.35	46.46	68.20	-21.74	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.96	-6.35	32.61	54.00	-21.39	Horizontal
5350.00	40.17	-6.35	33.82	54.00	-20.18	Vertical

ANT2:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	52.25	-6.86	45.39	68.20	-22.81	Horizontal
5150.00	51.78	-6.86	44.92	68.20	-23.28	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	39.69	-6.86	32.83	54.00	-21.17	Horizontal
5150.00	38.84	-6.86	31.98	54.00	-22.02	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.15	-6.35	46.80	68.20	-21.40	Horizontal
5350.00	52.96	-6.35	46.61	68.20	-21.59	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	40.18	-6.35	33.83	54.00	-20.17	Horizontal
5350.00	38.82	-6.35	32.47	54.00	-21.53	Vertical

MIMO:

802.11n-HT20						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.37	-6.86	44.51	68.20	-23.69	Horizontal
5150.00	52.03	-6.86	45.17	68.20	-23.03	Vertical
802.11n-HT20						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	38.65	-6.86	31.79	54.00	-22.21	Horizontal
5150.00	39.27	-6.86	32.41	54.00	-21.59	Vertical
802.11n-HT20						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.38	-6.35	47.03	68.20	-21.17	Horizontal
5350.00	52.23	-6.35	45.88	68.20	-22.32	Vertical
802.11n-HT20						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	40.05	-6.35	33.70	54.00	-20.03	Horizontal
5350.00	39.68	-6.35	33.33	54.00	-20.67	Vertical

802.11n-HT40						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.84	-6.86	44.98	68.20	-23.22	Horizontal
5150.00	52.61	-6.86	45.75	68.20	-22.45	Vertical
802.11n-HT40						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	40.02	-6.86	33.16	54.00	-20.84	Horizontal
5150.00	38.79	-6.86	31.93	54.00	-22.07	Vertical
802.11n-HT40						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.36	-6.35	47.01	68.20	-21.19	Horizontal
5350.00	53.41	-6.35	47.06	68.20	-21.14	Vertical
802.11n-HT40						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.59	-6.35	31.24	54.00	-22.76	Horizontal
5350.00	38.16	-6.35	31.81	54.00	-22.19	Vertical

802.11ac-HT80						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	53.36	-6.86	46.50	68.20	-21.70	Horizontal
5150.00	52.15	-6.86	42.29	68.20	-22.91	Vertical
802.11n-HT80						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	37.69	-6.86	30.83	54.00	-23.17	Horizontal
5150.00	38.84	-6.86	31.98	54.00	-22.02	Vertical
802.11n-HT80						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	54.01	-6.35	47.66	68.20	-20.54	Horizontal
5350.00	53.39	-6.35	47.04	68.20	-21.16	Vertical
802.11n-HT80						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.84	-6.35	32.49	54.00	-21.51	Horizontal
5350.00	39.26	-6.35	32.91	54.00	-21.09	Vertical

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *Correct factor= Antenna Factor + Cable Loss – Preamplifier Factor*

Band 4:
ANT1:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	53.69	-4.93	48.76	78.20	-29.44	Horizontal
5725.00	54.12	-4.93	49.19	78.20	-29.01	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	38.69	-4.93	33.76	54.00	-20.24	Horizontal
5725.00	39.33	-4.93	34.40	54.00	-19.60	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	54.22	-4.35	49.87	78.20	-28.33	Horizontal
5850.00	54.39	-4.35	50.04	78.20	-28.16	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	39.54	-4.35	35.19	54.00	-18.81	Horizontal
5850.00	40.21	-4.35	25.86	54.00	-18.14	Vertical

ANT2:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	52.86	-4.93	47.93	78.20	-30.27	Horizontal
5725.00	53.37	-4.93	48.44	78.20	-29.76	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	40.25	-4.93	35.32	54.00	-18.68	Horizontal
5725.00	41.34	-4.93	36.41	54.00	-17.59	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.38	-4.35	49.03	78.20	-29.17	Horizontal
5850.00	52.91	-4.35	48.56	78.20	-29.64	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	39.98	-4.35	35.63	54.00	-18.37	Horizontal
5850.00	40.72	-4.35	36.37	54.00	-17.63	Vertical

MIMO:

802.11n-HT20						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	52.84	-4.93	47.91	78.20	-30.29	Horizontal
5725.00	52.91	-4.93	47.98	78.20	-30.22	Vertical
802.11n-HT20						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	39.65	-4.93	34.72	54.00	-19.28	Horizontal
5725.00	40.01	-4.93	35.08	54.00	-18.92	Vertical
802.11n-HT20						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.37	-4.35	49.02	78.20	-29.18	Horizontal
5850.00	54.18	-4.35	49.83	78.20	-28.37	Vertical
802.11n-HT20						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	38.81	-4.35	34.46	54.00	-19.54	Horizontal
5850.00	39.62	-4.35	35.27	54.00	-18.73	Vertical

802.11n-HT40						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	52.85	-4.93	47.92	78.20	-30.28	Horizontal
5725.00	53.69	-4.93	48.76	78.20	-29.44	Vertical
802.11n-HT40						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	38.38	-4.93	33.45	54.00	-20.55	Horizontal
5725.00	40.01	-4.93	35.08	54.00	-18.92	Vertical
802.11n-HT40						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	54.17	-4.35	49.82	78.20	-28.38	Horizontal
5850.00	53.82	-4.35	49.47	78.20	-28.73	Vertical
802.11n-HT40						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	41.17	-4.35	36.82	54.00	-17.18	Horizontal
5850.00	40.36	-4.35	36.01	54.00	-17.99	Vertical

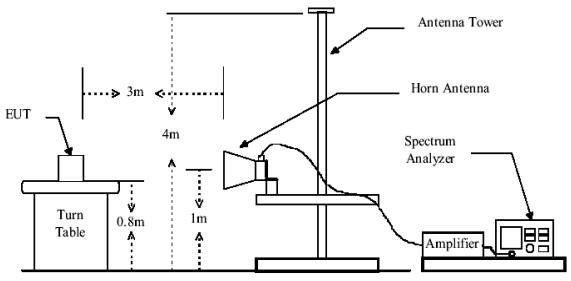
802.11ac-HT80						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	53.03	-4.93	48.10	78.20	-30.10	Horizontal
5725.00	52.22	-4.93	47.29	78.20	-30.91	Vertical
802.11ac-HT80						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5725.00	39.38	-4.93	34.45	54.00	-19.55	Horizontal
5725.00	40.24	-4.93	35.31	54.00	-18.69	Vertical
802.11ac-HT80						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	55.03	-4.35	50.68	78.20	-27.52	Horizontal
5850.00	54.71	-4.35	50.36	78.20	-27.84	Vertical
802.11ac-HT80						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	41.25	-4.35	36.90	54.00	-17.10	Horizontal
5850.00	40.87	-4.35	36.52	54.00	-17.84	Vertical

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor*

6.7 Spurious Emission

6.7.1 Restricted Band

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407(b)</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>Band 1: 4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz
Band 4: 5.35 GHz to 5.46 GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>74.00</td><td>Peak Value</td></tr>
<tr><td>54.00</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>7. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
8. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
9. 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.
10. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
11. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
12. 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 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.</td></tr>
<tr><td>Test setup:</td><td> 
</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 5.7 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td>Passed</td></tr>
</table>

Band 1:

ANT1:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	50.34	-8.71	45.59	74.00	-32.37	Horizontal
4500.00	51.29	-8.71	45.87	74.00	-31.42	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	38.69	-8.71	29.98	54.00	-24.02	Horizontal
4500.00	40.25	-8.71	31.54	54.00	-22.46	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.36	-5.36	47.00	74.00	-27.00	Horizontal
5460.00	51.74	-5.36	46.38	74.00	-27.62	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	39.23	-5.36	33.87	54.00	-20.13	Horizontal
5460.00	40.00	-5.36	34.64	54.00	-19.36	Vertical

ANT2:

802.11a						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	49.86	-8.71	41.15	74.00	-32.85	Horizontal
4500.00	50.43	-8.71	41.72	74.00	-32.28	Vertical
802.11a						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	37.74	-8.71	29.03	54.00	-24.97	Horizontal
4500.00	38.03	-8.71	29.32	54.00	-24.68	Vertical
802.11a						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.03	-5.36	44.67	74.00	-29.33	Horizontal
5460.00	50.11	-5.36	44.75	74.00	-29.25	Vertical
802.11a						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	38.16	-5.36	32.80	54.00	-21.20	Horizontal
5460.00	37.71	-5.36	32.35	54.00	-21.65	Vertical

MIMO:

802.11n-HT20						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	51.12	-8.71	42.41	74.00	-31.59	Horizontal
4500.00	50.33	-8.71	41.62	74.00	-32.38	Vertical
802.11n-HT20						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	37.65	-8.71	28.94	54.00	-25.06	Horizontal
4500.00	38.14	-8.71	29.43	54.00	-24.57	Vertical
802.11n-HT20						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.04	-5.36	45.68	74.00	-28.32	Horizontal
5460.00	51.69	-5.36	46.33	74.00	-27.27	Vertical
802.11n-HT20						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	37.72	-5.36	32.36	54.00	-21.64	Horizontal
5460.00	37.46	-5.36	32.10	54.00	-21.90	Vertical

802.11n-HT40						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	50.47	-8.71	41.76	74.00	-32.24	Horizontal
4500.00	51.64	-8.71	42.93	74.00	-31.07	Vertical
802.11n-HT40						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	38.52	-8.71	29.81	54.00	-24.19	Horizontal
4500.00	38.17	-8.71	29.46	54.00	-24.54	Vertical
802.11n-HT40						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.11	-5.36	45.75	74.00	-28.25	Horizontal
5460.00	52.08	-5.36	46.72	74.00	-27.28	Vertical
802.11n-HT40						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	38.47	-5.36	33.11	54.00	-20.89	Horizontal
5460.00	38.51	-5.36	33.15	54.00	-20.85	Vertical

802.11ac-HT80						
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	50.01	-8.71	41.30	74.00	-32.70	Horizontal
4500.00	49.83	-8.71	41.12	74.00	-32.88	Vertical
802.11n-HT80						
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	36.84	-8.71	28.13	54.00	-25.87	Horizontal
4500.00	37.15	-8.71	28.44	54.00	-25.56	Vertical
802.11n-HT80						
Test channel		Highest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	49.56	-5.36	44.20	74.00	-29.80	Horizontal
5460.00	48.32	-5.36	42.96	74.00	-31.04	Vertical
802.11n-HT80						
Test channel		Highest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	37.44	-5.36	32.08	54.00	-21.92	Horizontal
5460.00	37.18	-5.36	31.82	54.00	-22.18	Vertical

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor

Band 4:

802.11a

ANT1：

Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.39	-6.35	46.04	74.00	-27.96	Horizontal
5460.00	53.15	-5.36	47.79	74.00	-26.21	Horizontal
5350.00	51.22	-6.35	44.87	74.00	-29.13	Vertical
5460.00	52.07	-5.36	46.71	74.00	-27.29	Vertical
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.52	-6.35	32.17	54.00	-21.83	Horizontal
5460.00	38.16	-5.36	32.80	54.00	-21.20	Horizontal
5350.00	39.24	-6.35	32.89	54.00	-21.11	Vertical
5460.00	37.78	-5.36	32.42	54.00	-21.58	Vertical

ANT2:

Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.47	-6.35	45.12	74.00	-28.88	Horizontal
5460.00	52.29	-5.36	46.93	74.00	-27.07	Horizontal
5350.00	52.16	-6.35	45.81	74.00	-28.19	Vertical
5460.00	52.03	-5.36	46.67	74.00	-27.33	Vertical
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.74	-6.35	31.39	54.00	-22.61	Horizontal
5460.00	37.69	-5.36	32.33	54.00	-21.67	Horizontal
5350.00	38.15	-6.35	31.80	54.00	-22.20	Vertical
5460.00	37.88	-5.36	32.52	54.00	-21.48	Vertical

MIMO:

802.11n-HT20

Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.85	-6.35	45.50	74.00	-28.50	Horizontal
5460.00	52.69	-5.36	47.33	74.00	-26.67	Horizontal
5350.00	51.18	-6.35	44.83	74.00	-29.17	Vertical
5460.00	52.39	-5.36	47.03	74.00	-26.97	Vertical
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.18	-6.35	31.83	54.00	-22.17	Horizontal
5460.00	37.74	-5.36	32.38	54.00	-21.62	Horizontal
5350.00	39.15	-6.35	32.80	54.00	-21.20	Vertical
5460.00	38.37	-5.36	33.01	54.00	-20.99	Vertical

802.11n-HT40

Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.25	-6.35	44.90	74.00	-29.10	Horizontal
5460.00	52.36	-5.36	47.00	74.00	-27.00	Horizontal
5350.00	53.23	-6.35	46.88	74.00	-27.12	Vertical
5460.00	52.58	-5.36	47.22	74.00	-26.78	Vertical
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	39.36	-6.35	33.01	54.00	-20.99	Horizontal
5460.00	38.87	-5.36	33.51	54.00	-20.49	Horizontal
5350.00	38.51	-6.35	32.16	54.00	-21.84	Vertical
5460.00	37.44	-5.36	32.08	54.00	-21.92	Vertical

802.11ac-HT80

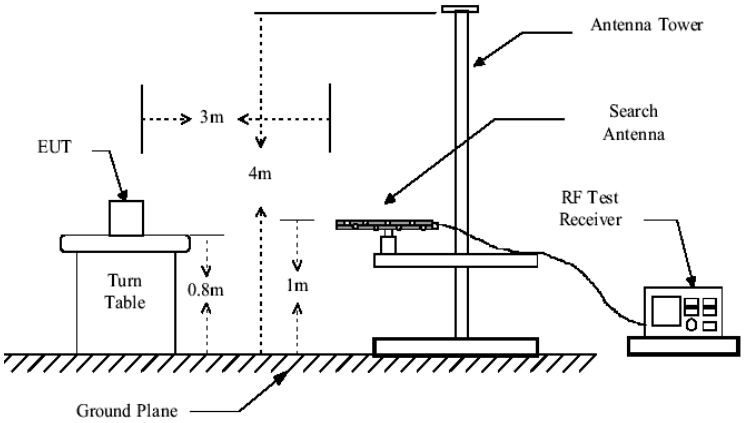
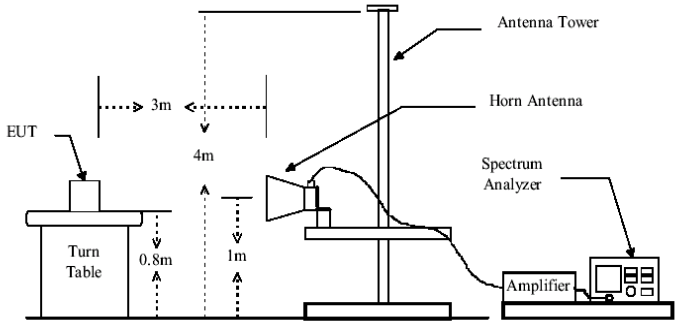
Test channel		Lowest	Level		Peak	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.03	-6.35	45.68	74.00	-28.22	Horizontal
5460.00	51.88	-5.36	46.52	74.00	-27.48	Horizontal
5350.00	53.26	-6.35	46.91	74.00	-27.09	Vertical
5460.00	54.15	-5.36	48.79	74.00	-25.21	Vertical
Test channel		Lowest	Level		Average	
Frequency (MHz)	Read Level (dBuV/m)	Correct factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.43	-6.35	31.08	54.00	-22.92	Horizontal
5460.00	38.51	-5.36	33.15	54.00	-20.58	Horizontal
5350.00	37.46	-6.35	31.11	54.00	-22.89	Vertical
5460.00	37.58	-5.36	32.22	54.00	-21.78	Vertical

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor*

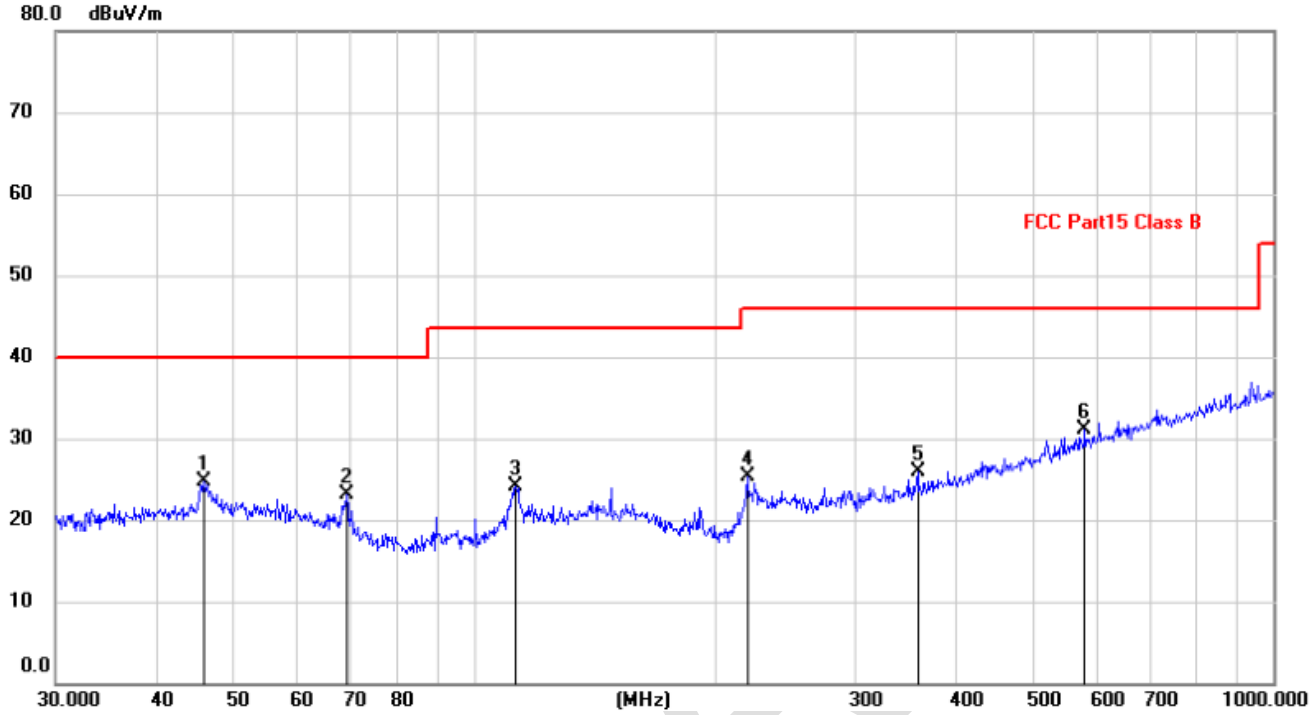
6.7.2 Unwanted Emissions in the Restricted Bands

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 40GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
</table>
<table>
<tr><td>Frequency</td><td>Limit (dBm/MHz)</td><td>Remark</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>68.20</td><td>Peak Value</td></tr>
<tr><td>54.00</td><td>Average Value</td></tr>
<tr><td colspan="3">Remark:
1. Above 1GHz limit:
E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters 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 rota 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 the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that 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.</td></tr>
</table>

Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

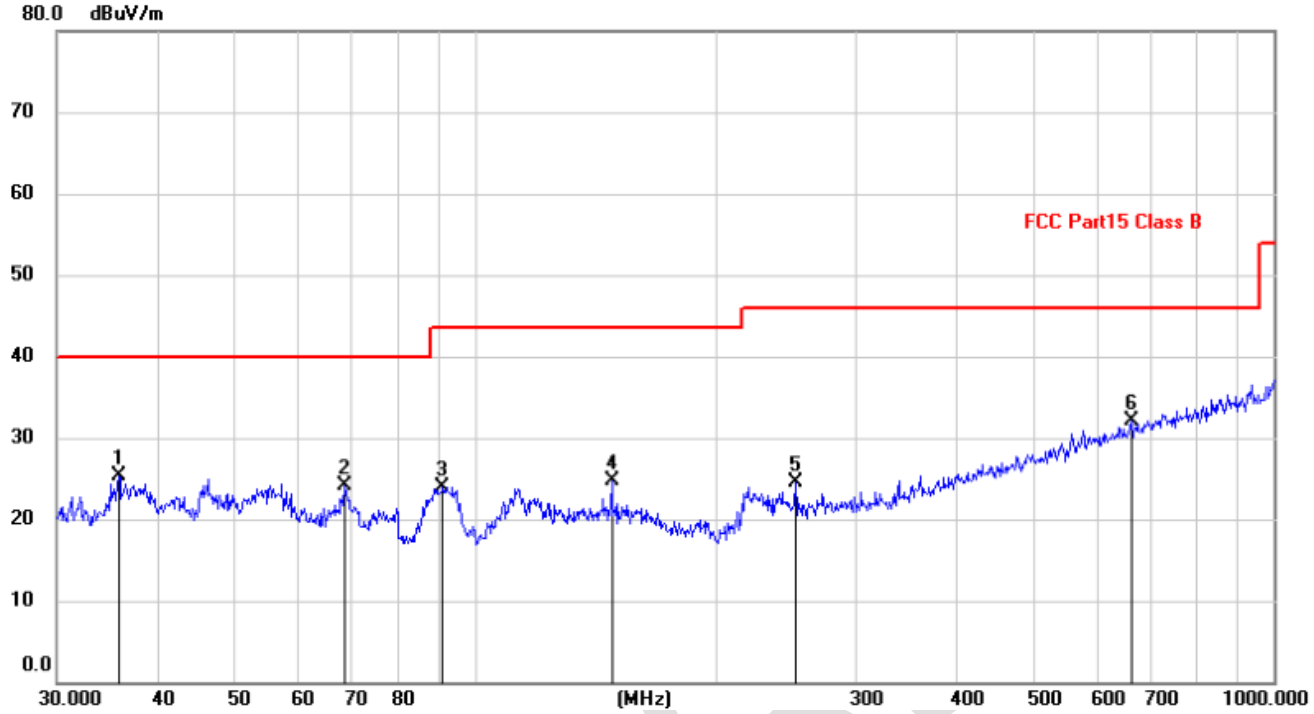
Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		46.0162	10.82	13.87	24.69	40.00	-15.31	QP
2		69.3568	12.22	10.95	23.17	40.00	-16.83	QP
3		112.9196	12.43	11.64	24.07	43.50	-19.43	QP
4		219.8448	14.00	11.27	25.27	46.00	-20.73	QP
5		359.1859	10.64	15.28	25.92	46.00	-20.08	QP
6	*	580.7025	10.49	20.55	31.04	46.00	-14.96	QP

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		35.8746	12.59	12.79	25.38	40.00	-14.62	QP
2		68.6310	13.01	11.09	24.10	40.00	-15.90	QP
3		91.1745	14.40	9.49	23.89	43.50	-19.61	QP
4		148.4410	11.58	13.04	24.62	43.50	-18.88	QP
5		252.0627	11.76	12.69	24.45	46.00	-21.55	QP
6	*	663.4728	10.18	21.84	32.02	46.00	-13.98	QP

Above 1GHz:

Band 1:

ANT1:

802.11a mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	48.63	2.56	51.19	68.20	-17.01	Vertical
10360.00	47.54	2.56	50.10	68.20	-18.10	Horizontal
802.11a mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	32.52	2.56	35.08	54.00	-18.92	Vertical
10360.00	33.69	2.56	36.25	54.00	-17.75	Horizontal

802.11a mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	47.53	2.71	50.24	68.20	-17.96	Vertical
10400.00	47.76	2.71	50.47	68.20	-17.73	Horizontal
802.11a mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	34.52	2.71	37.23	54.00	-16.77	Vertical
10400.00	35.01	2.71	37.72	54.00	-16.28	Horizontal

802.11a mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	48.03	3.04	51.07	68.20	-17.13	Vertical
10480.00	47.15	3.04	50.19	68.20	-18.01	Horizontal
802.11a mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	33.15	3.04	36.19	54.00	-17.81	Vertical
10480.00	32.54	3.04	35.58	54.00	-18.42	Horizontal

ANT2:

802.11a mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	47.59	2.56	50.15	68.20	-18.05	Vertical
10360.00	47.63	2.56	50.19	68.20	-18.01	Horizontal
802.11a mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	32.25	2.56	34.81	54.00	-19.19	Vertical
10360.00	33.15	2.56	35.71	54.00	-18.29	Horizontal

802.11a mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	49.36	2.71	52.07	68.20	-16.13	Vertical
10400.00	48.51	2.71	51.22	68.20	-16.98	Horizontal
802.11a mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	34.03	2.71	36.74	54.00	-17.26	Vertical
10400.00	33.54	2.71	36.25	54.00	-17.75	Horizontal

802.11a mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	48.25	3.04	51.29	68.20	-16.91	Vertical
10480.00	47.77	3.04	50.81	68.20	-17.39	Horizontal
802.11a mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	33.84	3.04	36.88	54.00	-17.12	Vertical
10480.00	32.62	3.04	35.66	54.00	-18.34	Horizontal

MIMO:

802.11n20 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	48.69	2.56	51.25	68.20	-16.95	Vertical
10360.00	49.84	2.56	52.40	68.20	-15.80	Horizontal
802.11n20 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	32.40	2.56	34.96	54.00	-19.04	Vertical
10360.00	35.52	2.56	38.08	54.00	-15.92	Horizontal

802.11n20 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	47.75	2.71	50.46	68.20	-17.74	Vertical
10400.00	48.43	2.71	51.14	68.20	-17.06	Horizontal
802.11n20 mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	34.43	2.71	37.14	54.00	-16.86	Vertical
10400.00	35.18	2.71	37.99	54.00	-16.11	Horizontal

802.11n20 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	49.84	3.04	52.88	68.20	-15.32	Vertical
10480.00	49.03	3.04	52.07	68.20	-16.13	Horizontal
802.11n20 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	33.74	3.04	36.78	54.00	-17.22	Vertical
10480.00	34.15	3.04	37.19	54.00	-16.81	Horizontal

802.11n40 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	48.36	2.65	51.01	68.20	-17.19	Vertical
10380.00	48.22	2.65	50.87	68.20	-17.33	Horizontal
802.11n40 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	35.51	2.65	38.16	54.00	-15.84	Vertical
10380.00	34.49	2.65	37.14	54.00	-16.86	Horizontal

802.11n40 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	47.36	2.87	50.23	68.20	-17.97	Vertical
10460.00	48.56	2.87	51.43	68.20	-16.77	Horizontal
802.11n40 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	33.58	2.87	36.45	54.00	-17.55	Vertical
10460.00	36.36	2.87	39.23	54.00	-14.77	Horizontal

802.11ac20 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	48.51	2.56	51.07	68.20	-17.13	Vertical
10360.00	48.07	2.56	50.63	68.20	-17.57	Horizontal
802.11ac20 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	33.65	2.56	36.21	54.00	-17.79	Vertical
10360.00	34.71	2.56	37.27	54.00	-16.73	Horizontal

802.11ac20 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	49.68	2.71	52.39	68.20	-15.81	Vertical
10400.00	49.17	2.71	51.88	68.20	-16.32	Horizontal

802.11ac20 mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	34.27	2.71	36.98	54.00	-17.02	Vertical
10400.00	34.59	2.71	37.30	54.00	-16.70	Horizontal

802.11ac20 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	50.28	3.04	53.32	68.20	-14.88	Vertical
10480.00	50.36	3.04	53.40	68.20	-14.80	Horizontal
802.11ac20 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	34.69	3.04	37.73	54.00	-16.27	Vertical
10480.00	33.81	3.04	36.85	54.00	-17.15	Horizontal

802.11ac40 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	48.88	2.65	51.53	68.20	-16.67	Vertical
10380.00	49.01	2.65	51.66	68.20	-16.54	Horizontal
802.11ac40 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	34.47	2.65	37.12	54.00	-16.88	Vertical
10380.00	35.51	2.65	38.16	54.00	-15.84	Horizontal

802.11ac40 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	50.27	2.87	53.14	68.20	-15.06	Vertical
10460.00	50.11	2.87	52.98	68.20	-15.22	Horizontal
802.11ac40 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	35.32	2.87	38.19	54.00	-15.81	Vertical
10460.00	34.74	2.87	37.61	54.00	-16.39	Horizontal

802.11ac80 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	47.85	2.79	50.64	68.20	-17.56	Vertical
10420.00	48.54	2.79	51.33	68.20	-16.87	Horizontal
802.11ac80 mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	33.74	2.79	36.53	54.00	-17.47	Vertical
10420.00	34.03	2.79	36.82	54.00	-17.18	Horizontal

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor*

Band 4:

ANT1:

802.11a mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	45.65	3.84	49.49	68.20	-18.71	Vertical
11490.00	44.85	3.84	48.69	68.20	-19.51	Horizontal
802.11a mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	30.22	3.84	34.06	54.00	-19.94	Vertical
11490.00	30.15	3.84	33.99	54.00	-20.01	Horizontal

802.11a mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	44.41	3.91	48.32	68.20	-19.88	Vertical
11570.00	44.07	3.91	47.98	68.20	-20.22	Horizontal
802.11a mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	32.02	3.91	35.93	54.00	-18.07	Vertical
11570.00	33.39	3.91	37.30	54.00	-16.70	Horizontal

802.11a mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	44.21	4.23	48.44	68.20	-19.76	Vertical
11650.00	43.68	4.23	47.91	68.20	-20.29	Horizontal
802.11a mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	33.58	4.23	37.81	54.00	-16.19	Vertical
11650.00	31.25	4.23	35.48	54.00	-18.52	Horizontal

ANT2：

802.11a mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	46.32	3.84	50.16	68.20	-18.04	Vertical
11490.00	45.87	3.84	49.71	68.20	-18.49	Horizontal
802.11a mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	32.03	3.84	35.87	54.00	-18.13	Vertical
11490.00	33.42	3.84	37.26	54.00	-16.73	Horizontal

802.11a mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	47.36	3.91	51.27	68.20	-16.93	Vertical
11570.00	47.01	3.91	50.92	68.20	-17.28	Horizontal
802.11a mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	34.02	3.91	37.93	54.00	-16.07	Vertical
11570.00	33.47	3.91	37.38	54.00	-16.62	Horizontal

802.11a mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	48.03	4.23	52.26	68.20	-15.94	Vertical
11650.00	48.16	4.23	52.39	68.20	-15.81	Horizontal
802.11a mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	31.74	4.23	35.97	54.00	-18.03	Vertical
11650.00	34.29	4.23	38.52	54.00	-15.48	Horizontal

MIMO:

802.11n20 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	45.26	3.84	49.10	68.20	-19.10	Vertical
11490.00	44.84	3.84	48.68	68.20	-19.52	Horizontal
802.11n20 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	33.69	3.84	37.53	54.00	-16.47	Vertical
11490.00	34.01	3.84	37.85	54.00	-16.15	Horizontal

802.11n20 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	45.36	3.91	49.27	68.20	-18.93	Vertical
11570.00	45.17	3.91	49.08	68.20	-19.12	Horizontal
802.11n20 mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	31.11	3.91	35.02	54.00	-18.98	Vertical
11570.00	30.23	3.91	34.14	54.00	-19.86	Horizontal

802.11n20 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	42.35	4.23	46.58	68.20	-21.62	Vertical
11650.00	42.70	4.23	46.98	68.20	-21.27	Horizontal
802.11n20 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	34.27	4.23	38.50	54.00	-15.50	Vertical
11650.00	33.39	4.23	37.62	54.00	-16.38	Horizontal

802.11n40 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	45.36	3.88	49.24	68.20	-18.96	Vertical
11510.00	45.71	3.88	49.59	68.20	-18.61	Horizontal
802.11n40 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	32.28	3.88	36.16	54.00	-17.84	Vertical
11510.00	33.41	3.88	37.29	54.00	-16.71	Horizontal

802.11n40 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	44.17	4.02	48.19	68.20	-20.01	Vertical
11590.00	44.25	4.02	48.27	68.20	-19.93	Horizontal
802.11n40 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	31.03	4.02	35.05	54.00	-18.95	Vertical
11590.00	31.29	4.02	35.31	54.00	-18.69	Horizontal

802.11ac20 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	45.36	3.84	49.20	68.20	-19.00	Vertical
11490.00	44.81	3.84	48.65	68.20	-19.55	Horizontal
802.11ac20 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	30.25	3.84	34.09	54.00	-19.91	Vertical
11490.00	30.44	3.84	34.28	54.00	-19.72	Horizontal

802.11ac20 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	44.66	3.91	48.57	68.20	-19.63	Vertical
11570.00	45.09	3.91	49.00	68.20	-19.20	Horizontal
802.11ac20 mode Middle channel (Average Value)						

Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	30.48	3.91	34.39	54.00	-19.61	Vertical
11570.00	30.63	3.91	34.54	54.00	-19.46	Horizontal

802.11ac20 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	45.62	4.23	49.85	68.20	-18.35	Vertical
11650.00	44.07	4.23	48.30	68.20	-19.90	Horizontal
802.11ac20 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	32.71	4.23	39.94	54.00	-17.06	Vertical
11650.00	31.15	4.23	35.38	54.00	-18.62	Horizontal

802.11ac40 mode Lowest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	44.36	3.88	48.24	68.20	-19.96	Vertical
11510.00	43.57	3.88	47.45	68.20	-20.75	Horizontal
802.11ac40 mode Lowest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	30.25	3.88	34.13	54.00	-19.87	Vertical
11510.00	31.11	3.88	34.99	54.00	-19.01	Horizontal

802.11ac40 mode Highest channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	43.36	4.02	47.38	68.20	-20.82	Vertical
11590.00	44.07	4.02	48.09	68.20	-20.11	Horizontal
802.11ac40 mode Highest channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	31.13	4.02	35.15	54.00	-18.85	Vertical
11590.00	30.67	4.02	34.69	54.00	-19.31	Horizontal

802.11ac80 mode Middle channel (Peak Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	44.41	3.89	48.30	68.20	-19.90	Vertical
11550.00	43.67	3.89	47.56	68.20	-20.64	Horizontal
802.11ac80 mode Middle channel (Average Value)						
Frequency (MHz)	Read Level (dBuV)	Correct factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	32.16	3.89	36.05	54.00	-17.95	Vertical
11550.00	33.74	3.89	37.63	54.00	-16.37	Horizontal

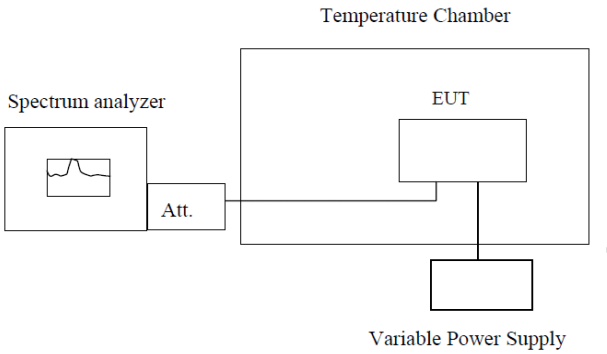
Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor

6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers 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 in the user's manual.
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

Band 1:

Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(℃)	Voltage(AC /60Hz)		
20	138	5179.984500	2.99
	120	5179.987800	2.36
	102	5179.987400	2.43

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(AC /60Hz)	Temp(℃)		
120	-20	5179.985100	2.88
	-10	5179.987400	2.43
	0	5179.988200	2.28
	10	5179.988400	2.24
	20	5179.988700	2.18
	30	5179.986800	2.55
	40	5179.984700	2.95
	50	5179.983500	3.19

Band 4:

Voltage vs. Frequency Stability (Lowest channel=5745MHz)

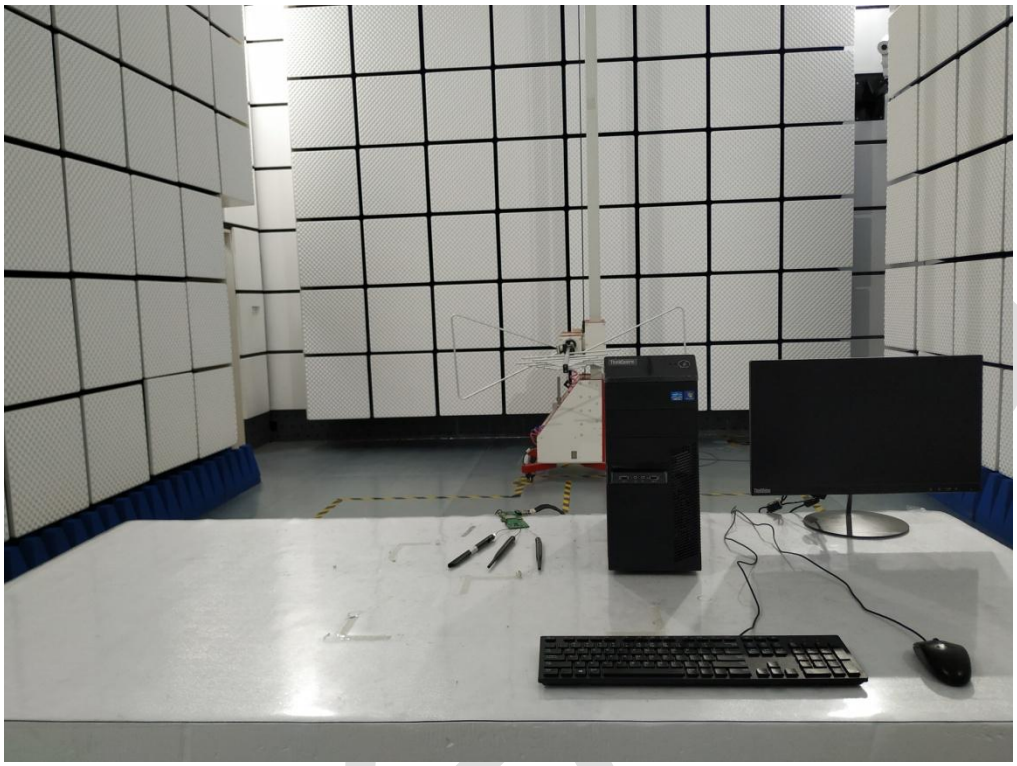
Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(℃)	Voltage(AC /60Hz)		
20	138	5744.986584	2.34
	120	5744.988745	1.96
	102	5744.987548	2.17

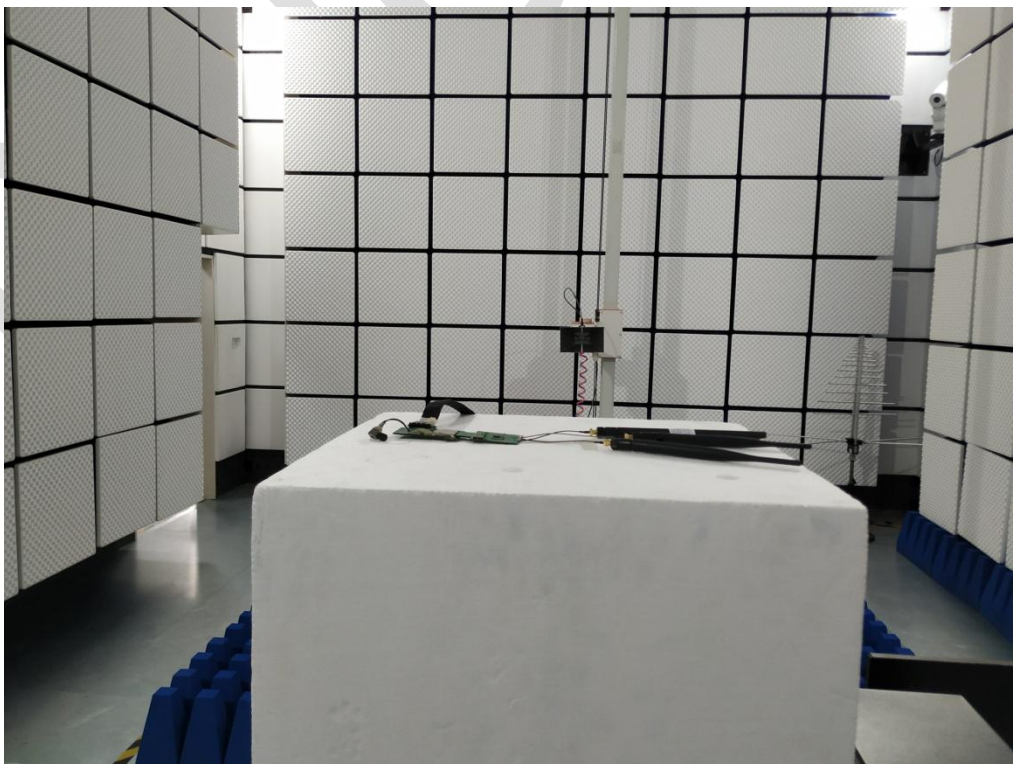
Temperature vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(AC /60Hz)	Temp(℃)		
120	-20	5744.993550	1.12
	-10	5744.998471	0.27
	0	5744.989878	1.76
	10	5744.997884	0.37
	20	5744.988875	1.94
	30	5744.998541	0.25
	40	5744.986784	2.30
	50	5744.990247	1.70

7 Test Setup Photo

Radiated emission





8 EUT Constructional Details

Reference to the test report No. BLA-EMC-201903-A37-01

------End of report------