



# FCC C2PC Test Report

## FCC Part15 Subpart E

Product Name : Wireless Access Point

Model No. : AP630

FCC ID : WBV-AP630

Applicant : Aerohive Networks, Inc.

Address : Aerohive Networks, 1011 McCarthy Boulevard,  
Milpitas, CA 95035, United States

Date of Receipt : Jul. 18, 2018

Test Date : Jul. 18, 2018~ Aug. 30, 2018

Issued Date : Sep. 06, 2018

Report No. : 1872112R-RF-US-P09V01

Report Version : V1.1

The test results relate only to the samples tested.

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

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# Test Report Certification

Issued Date : Sep. 06, 2018  
Report No. : 1872112R-RF-US-P09V01



Product Name : Wireless Access Point  
Applicant : Aerohive Networks, Inc.  
Address : Aerohive Networks, 1011 McCarthy Boulevard, Milpitas, CA 95035, United States  
Manufacturer : Aerohive Networks, Inc.  
Address : Aerohive Networks, 1011 McCarthy Boulevard, Milpitas, CA 95035, United States  
Model No. : AP630  
FCC ID : WBV-AP630  
EUT Voltage : PoE 48V  
Test Voltage : AC 120V/60Hz  
Brand Name : Aerohive  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E  
ANSI C63.10:2013;  
789033 D02 General UNII Test Procedures New Rules v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01  
Test Result : Complied  
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.  
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## History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1872112R-RF-US-P09V01	V1.0	Initial Issued Report	Sep. 03, 2018
1872112R-RF-US-P09V01	V1.1	Change some information	Sep. 06, 2018

## 1. General Information

### 1.1. EUT Description

Product Name	Wireless Access Point					
Brand Name	Aerohive					
Model No.	AP630					
EUT Voltage	PoE 48V					
Type of Modulation	OFDM-BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, 1024QAM					
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1.7Gbps 802.11ax: up to 2.4Gbps					
Channel Control	Auto					
Transmit modes	<input checked="" type="checkbox"/>	802.11a	<input checked="" type="checkbox"/>	802.11n(20MHz)	<input checked="" type="checkbox"/>	802.11n(40MHz)
	<input checked="" type="checkbox"/>	802.11ac(20MHz)	<input checked="" type="checkbox"/>	802.11ac(40MHz)	<input checked="" type="checkbox"/>	802.11ac(80MHz)
	<input checked="" type="checkbox"/>	802.11ax(20MHz)	<input checked="" type="checkbox"/>	802.11ax(40MHz)	<input checked="" type="checkbox"/>	802.11ax(80MHz)
	<input checked="" type="checkbox"/>	802.11ax(160MHz)				
Support Bands	<input checked="" type="checkbox"/>	5150MHz~5250MHz	<input type="checkbox"/>	Outdoor AP		
			<input checked="" type="checkbox"/>	Indoor AP		
			<input type="checkbox"/>	Fixed point-to-point AP		
			<input type="checkbox"/>	Mobile and Portable Client		
	<input checked="" type="checkbox"/>	5250MHz~5350MHz				
	<input checked="" type="checkbox"/>	5470MHz~5725MHz	<input checked="" type="checkbox"/>	With TDWR Channels		
	<input checked="" type="checkbox"/>	5725MHz~5850MHz	<input type="checkbox"/>	Without TDWR Channels		

## 1.2. Antenna information

Antenna Model No.	N/A							
Antenna Manufacturer	N/A							
Antenna Delivery	<input type="checkbox"/>	1*TX+1*RX	<input checked="" type="checkbox"/>	2*TX+2*RX	<input type="checkbox"/>	3*TX+3*RX	<input checked="" type="checkbox"/>	4*TX+4*RX
Antenna Technology	<input type="checkbox"/>	SISO						
	<input checked="" type="checkbox"/> MIMO	<input type="checkbox"/>	Basic methodology					
		<input type="checkbox"/>	Sectorized antenna systems					
		<input type="checkbox"/>	Cross-polarized antennas					
		<input type="checkbox"/>	Unequal antenna gains, with equal transmit powers					
		<input type="checkbox"/>	Spatial Multiplexing					
		<input checked="" type="checkbox"/>	Cyclic Delay Diversity (CDD)					
Antenna Type	Metal Antenna							
Antenna Technology(2*TX+2*RX)		Ant Gain (dBi)		Directional Gain (dBi)				
<input checked="" type="checkbox"/> CDD		Ant0:4.74 Ant1: 5.17		For Power	For PSD			
<input checked="" type="checkbox"/> Beam-forming				7.97	7.97			
Antenna Technology(4*TX+4*RX)		Ant Gain (dBi)		Directional Gain (dBi)				
<input checked="" type="checkbox"/> CDD		Ant0:4.74 Ant1: 5.17 Ant2:5.19 Ant3: 4.92		For Power	For PSD			
<input checked="" type="checkbox"/> Beam-forming				5.01	11.03			
				11.03	11.03			

### 1.3. Working Frequency of Each Channel:

802.11a/n/ac/ax(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500MHz	104	5520 MHz	108	5540 MHz	112	5550 MHz
116	5580MHz	120	5600MHz	124	5620MHz	128	5640MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	144	5720 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825MHz	N/A	N/A	N/A	N/A	N/A	N/A

802.11n/ac/ax(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac/ax(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz	N/A	N/A	N/A	N/A

802.11ax(160MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570MHz	N/A	N/A	N/A	N/A

#### 1.4. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a with CDD
Mode 2: Transmit by 802.11n(20MHz) with CDD
Mode 3: Transmit by 802.11n(40MHz) with CDD
Mode 4: Transmit by 802.11ac(20MHz) with CDD
Mode 5: Transmit by 802.11ac(40MHz) with CDD
Mode 6: Transmit by 802.11ac(80MHz) with CDD
Mode 7: Transmit by 802.11ax(20MHz) with CDD
Mode 8: Transmit by 802.11ax(40MHz) with CDD
Mode 9: Transmit by 802.11ax(80MHz) with CDD
Mode 10: Transmit by 802.11ax(160MHz) with CDD
Mode 11: Transmit by 802.11a with Beam-forming
Mode 12: Transmit by 802.11n(20MHz) with Beam-forming
Mode 13: Transmit by 802.11n(40MHz) with Beam-forming
Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming
Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming
Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming
Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming
Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming
Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming
Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

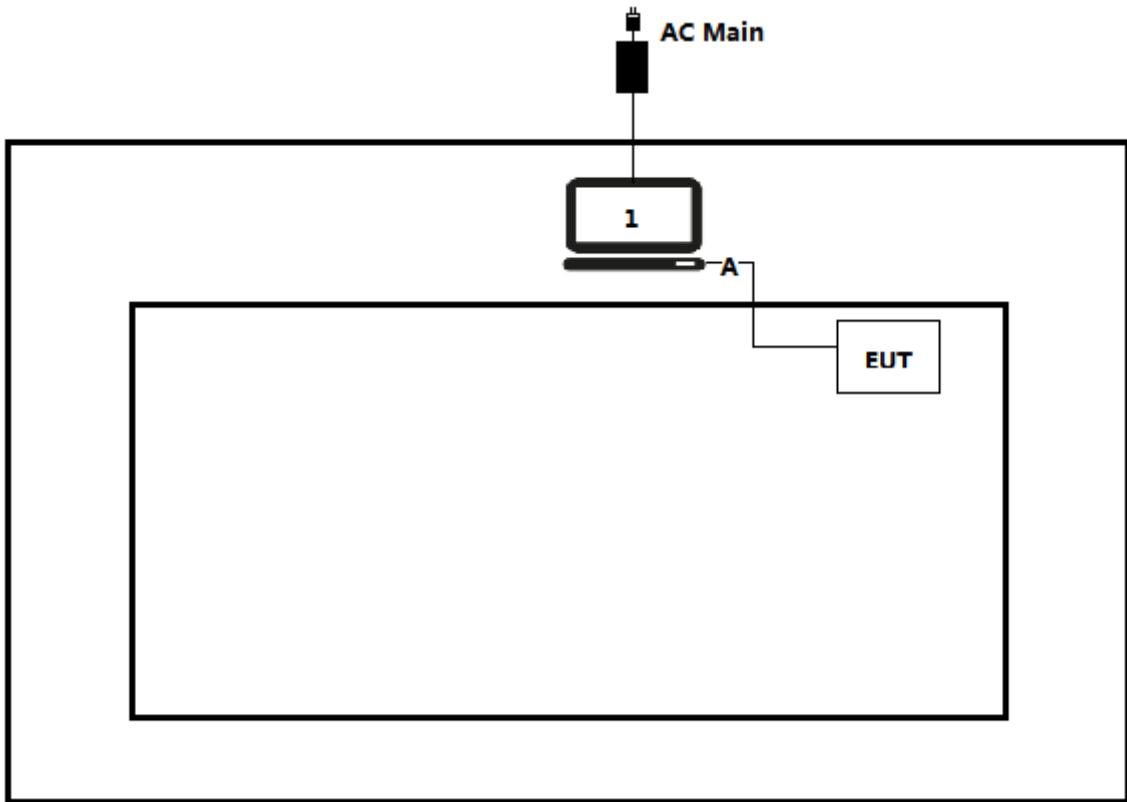
### 1.5. Tested System Details

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

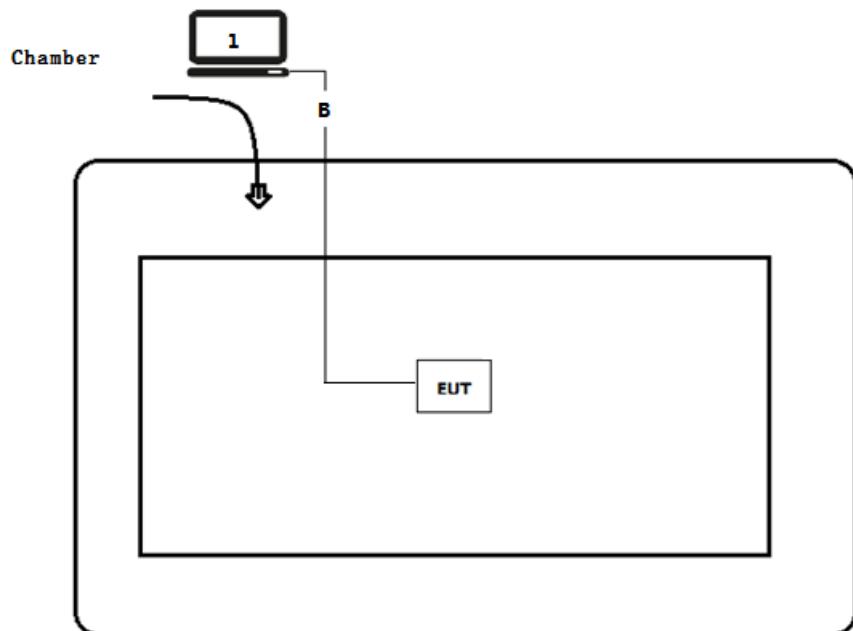
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	USB cable	N/A	N/A	N/A	Shielded, 0.5m
B	USB cable	N/A	N/A	N/A	Shielded, 10m

## 1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



## 1.7. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Run RF software [MTool 3.0.0.6], and set the test mode and channel, then press OK to start to continue transmit.

## 2. Technical Test

### 2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Performed Test Item	Normative References	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	FCC 15.209	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: Section 15.203	FCC 15.203	PASS

### 2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11a/n/ac/ax (20MHz)/	36	5180MHz	44	5220MHz	48	5240MHz
	52	5260MHz	60	5300MHz	64	5320MHz
	100	5500MHz	116	5580MHz	132	5700MHz
	144	5720MHz	149	5745MHz	157	5785MHz
	165	5825MHz	N/A	N/A	N/A	N/A
802.11n/ac/ax(40MHz)	38	5190MHz	46	5230MHz	54	5270MHz
	62	5310MHz	102	5510MHz	110	5550MHz
	134	5670MHz	142	5710MHz	151	5755MHz
	159	5795MHz	N/A	N/A	N/A	N/A
802.11ac/ax(80MHz)	42	5210MHz	58	5290MHz	106	5530MHz
	138	5690MHz	155	5775MHz	N/A	N/A
802.11ax(160MHz)	50	5250MHz	114	5570MHz	N/A	N/A

### 2.3. Power Parameter Value of the test software

Test Mode	Frequency	Power Setting	
		Ant 0+1	Ant 0+1+2+3
802.11a with CDD	5180	80	65
	5220	80	65
	5240	80	65
	5260	76	62
	5300	76	62
	5320	76	62
	5500	75	60
	5580	75	60
	5700	70	60
	5720	70	60
	5745	88	81
	5785	88	81
802.11n(20MHz) with CDD	5180	80	64
	5220	80	64
	5240	80	64
	5260	76	63
	5300	76	63
	5320	76	63
	5500	75	61
	5580	75	61
	5700	70	61
	5720	70	61
	5745	88	80
	5785	88	79
802.11n(40MHz) with CDD	5825	88	79
	5190	74	57
	5230	74	57
	5270	70	56
	5310	70	56
	5510	78	61

	5550	78	61
	5670	78	61
	5710	78	61
	5755	88	82
	5795	88	88
802.11ac(20MHz) with CDD	5180	80	64
	5220	80	64
	5240	80	64
	5260	76	62
	5300	76	62
	5320	76	62
	5500	75	59
	5580	75	59
	5700	70	59
	5720	70	59
	5745	88	79
	5785	88	78
	5825	88	79
	5190	72	56
802.11ac(40MHz) with CDD	5230	72	56
	5270	68	55
	5310	68	55
	5510	76	60
	5550	76	60
	5670	76	60
	5710	76	60
	5755	88	82
	5795	88	88
	5210	74	52
802.11ac(80MHz) with CDD	5290	68	53
	5530	66	53
	5690	66	53
	5775	84	67
	5180	78	63
802.11 ax(20MHz) with CDD	5220	78	63
	5240	78	63
	5260	74	63

	5300	74	63
	5320	74	63
	5500	75	58
	5580	75	58
	5700	70	58
	5720	70	58
	5745	88	80
	5785	88	77
	5825	88	76
802.11ax(40MHz) with CDD	5190	72	56
	5230	72	56
	5270	68	55
	5310	68	55
	5510	78	60
	5550	78	60
	5670	78	60
	5710	78	60
	5755	88	82
	5795	88	85
802.11ax(80MHz) with CDD	5210	74	52
	5290	68	52
	5530	66	53
	5690	66	53
	5775	84	67
802.11ax(160MHz) with CDD	5250	65	52
	5570	65	48
802.11a with Beam-forming	5180	78	64
	5220	78	64
	5240	78	64
	5260	65	48
	5300	65	48
	5320	65	48
	5500	63	45
	5580	63	45
	5700	63	45
	5720	63	45
	5745	85	80

	5785	85	80
	5825	85	78
802.11n(20MHz) with Beam-forming	5180	78	62
	5220	78	62
	5240	78	62
	5260	65	46
	5300	65	46
	5320	65	46
	5500	64	44
	5580	64	44
	5700	62	44
	5720	62	44
	5745	85	78
	5785	85	77
	5825	85	77
802.11n(40MHz) with Beam-forming	5190	71	56
	5230	71	56
	5270	68	48
	5310	68	48
	5510	69	48
	5550	69	48
	5670	69	48
	5710	69	48
	5755	85	82
	5795	85	82
802.11ac(20MHz) with Beam-forming	5180	78	64
	5220	78	64
	5240	78	64
	5260	65	48
	5300	65	48
	5320	65	48
	5500	65	44
	5580	65	46
	5700	61	48
	5720	61	48
	5745	85	78
	5785	85	78

	5825	85	78
802.11ac(40MHz) with Beam-forming	5190	71	57
	5230	71	57
	5270	68	44
	5310	68	44
	5510	69	44
	5550	69	44
	5670	69	44
	5710	69	44
	5755	85	80
	5795	85	79
802.11ac(80MHz) with Beam-forming	5210	71	54
	5290	65	46
	5530	62	46
	5690	62	46
	5775	81	69
802.11 ax(20MHz) with Beam-forming	5180	78	63
	5220	78	63
	5240	78	63
	5260	65	48
	5300	65	48
	5320	65	48
	5500	64	46
	5580	64	45
	5700	60	45
	5720	60	45
	5745	85	77
	5785	85	77
	5825	85	77
802.11ax(40MHz) with Beam-forming	5190	71	55
	5230	71	55
	5270	68	46
	5310	68	46
	5510	70	47
	5550	70	47
	5670	70	47
	5710	70	47

	5755	85	80
	5795	85	80
802.11ax(80MHz) with Beam-forming	5210	72	50
	5290	65	44
	5530	62	45
	5690	62	45
	5775	81	66
	5250	61	50
	5570	61	42

## 2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)							
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth		
					800ns GI	400ns GI	800ns GI	400ns GI	
0	1	1	6	6	6.5	7.2	13.5	15.0	
1	1	2	9	9	13.0	14.4	27.0	30.0	
2	1	5.5	12	12	19.5	21.7	40.5	45.0	
3	1	11	18	18	26.0	28.9	54.0	60.0	
4	1	---	24	24	39.0	43.3	81.0	90.0	
5	1	---	36	36	52.0	57.8	108.0	120.0	
6	1	---	48	48	58.5	65.0	121.5	135.0	
7	1	---	54	54	65.0	72.2	135.0	150.0	
8	2	---	---	---	13.0	14.4	27.0	30.0	
9	2	---	---	---	26.0	28.9	54.0	60.0	
10	2	---	---	---	39.0	43.3	81.0	90.0	
11	2	---	---	---	52.0	57.8	108.0	120.0	
12	2	---	---	---	78.0	86.7	162.0	180.0	
13	2	---	---	---	104.0	115.6	216.0	240.0	
14	2	---	---	---	117.0	130.0	243.0	270.0	
15	2	---	---	---	130.0	144.0	270.0	300.0	
16	3	---	---	---	19.5	21.6	40.5	45.0	
17	3	---	---	---	39.0	43.2	81.0	90.0	
18	3	---	---	---	58.5	65.1	121.5	135.0	
19	3	---	---	---	78.0	86.7	162.0	180.0	
20	3	---	---	---	117.0	129.9	243.0	270.0	
21	3	---	---	---	156.0	173.4	324.0	360.0	
22	3	---	---	---	175.5	195.0	364.5	405.0	
23	3	---	---	---	195.0	216.6	405.0	450.0	
24	4	---	---	---	26.0	28.8	54.0	60.0	
25	4	---	---	---	52.0	57.6	108.0	120.0	
26	4	---	---	---	78.0	86.8	162.0	180.0	
27	4	---	---	---	104.0	115.6	216.0	240.0	
28	4	---	---	---	156.0	173.2	324.0	360.0	
29	4	---	---	---	208.0	231.2	432.0	480.0	
30	4	---	---	---	234.0	260.0	486.0	540.0	
31	4	---	---	---	260.0	288.8	540.0	600.0	

**Note1:** The blue form is the maximum power data rate.

**2:** The EUT supports four spatial streams.

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20MHz		40MHz		80MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	10	BPSK	1/2	13.0	14.4	27.0	30.0	58.6	65.0
	11	QPSK	1/2	26.0	28.8	54.0	60.0	117.0	130.0
	12	QPSK	3/4	39.0	43.4	81.0	90.0	175.6	195.0
	13	16-QAM	1/2	52.0	57.8	108.0	120.0	234.0	260.0
	14	16-QAM	3/4	78.0	86.6	162.0	180.0	351.0	390.0
	15	64-QAM	2/3	104.0	115.6	216.0	240.0	468.0	520.0
	16	64-QAM	3/4	117.0	130.0	243.0	270.0	526.6	585.0
	17	64-QAM	5/6	130.0	144.4	270.0	300.0	585.0	650.0
	18	256-QAM	3/4	156.0	173.4	324.0	360.0	702.0	780.0
	19	256-QAM	5/6	#VALUE!	#VALUE!	360.0	400.0	780.0	866.6
3	20	BPSK	1/2	19.5	21.6	40.5	45.0	87.9	97.5
	21	QPSK	1/2	39.0	43.2	81.0	90.0	175.5	195.0
	22	QPSK	3/4	58.5	65.1	121.5	135.0	263.4	292.5
	23	16-QAM	1/2	78.0	86.7	162.0	180.0	351.0	390.0
	24	16-QAM	3/4	117.0	129.9	243.0	270.0	526.5	585.0
	25	64-QAM	2/3	156.0	173.4	324.0	360.0	702.0	780.0
	26	64-QAM	3/4	175.5	195.0	364.5	405.0	789.9	877.5
	27	64-QAM	5/6	195.0	216.6	405.0	450.0	877.5	975.0
	28	256-QAM	3/4	234.0	260.1	486.0	540.0	1053.0	1170.0
	29	256-QAM	5/6	#VALUE!	#VALUE!	540.0	600.0	1170.0	1299.9
4	30	BPSK	1/2	26.0	28.8	54.0	60.0	117.2	130.0
	31	QPSK	1/2	52.0	57.6	108.0	120.0	234.0	260.0
	32	QPSK	3/4	78.0	86.8	162.0	180.0	351.2	390.0

33	16-QAM	1/2	104.0	115.6	216.0	240.0	468.0	520.0
34	16-QAM	3/4	156.0	173.2	324.0	360.0	702.0	780.0
35	64-QAM	2/3	208.0	231.2	432.0	480.0	936.0	1040.0
36	64-QAM	3/4	234.0	260.0	486.0	540.0	1053.2	1170.0
37	64-QAM	5/6	260.0	288.8	540.0	600.0	1170.0	1300.0
38	256-QAM	3/4	312.0	346.8	648.0	720.0	1404.0	1560.0
39	256-QAM	5/6	#VALUE!	#VALUE!	720.0	800.0	1560.0	1733.2

Note 1: The blue form is the maximum power data rate.

2: The EUT supports four spatial streams.

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20MHz		40MHz		80MHz		160MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				1600 ns	800 ns	1600 ns	800 ns	1600 ns	800 ns	1600 ns	800 ns
				GI	GI	GI	GI	GI	GI	GI	GI
1	0	BPSK	1/2	4	4	8	9	17	18	34	36
	1	QPSK	1/2	16	17	33	34	68	72	136	144
	2	QPSK	3/4	24	26	49	52	102	108	204	216
	3	16-QAM	1/2	33	34	65	69	136	144	272	282
	4	16-QAM	3/4	49	52	98	103	204	216	408	432
	5	64-QAM	2/3	65	69	130	138	272	288	544	576
	6	64-QAM	3/4	73	77	146	155	306	324	613	649
	7	64-QAM	5/6	81	86	163	172	340	360	681	721
	8	256-QAM	3/4	98	103	195	207	408	432	817	865
	9	256-QAM	5/6	108	115	217	229	453	480	907	961
	10	1024-QAM	3/4	122	129	244	258	510	540	1021	1081
	11	1024-QAM	5/6	135	143	271	287	567	600	1134	1201
2	12	BPSK	1/2	8	8	16	18	34	36	68	72
	13	QPSK	1/2	32	34	66	68	136	144	272	288
	14	QPSK	3/4	48	52	98	104	204	216	408	432
	15	16-QAM	1/2	66	68	130	138	272	288	544	564
	16	16-QAM	3/4	98	104	196	206	408	432	816	864
	17	64-QAM	2/3	130	138	260	276	544	576	1088	1152
	18	64-QAM	3/4	146	154	292	310	612	648	1226	1298
	19	64-QAM	5/6	162	172	326	344	680	720	1362	1442
	20	256-QAM	3/4	196	206	390	414	816	864	1634	1730
	21	256-QAM	5/6	216	230	434	458	906	960	1814	1922
	22	1024-QAM	3/4	244	258	488	516	1020	1080	2042	2162
	23	1024-QAM	5/6	270	286	542	574	1134	1200	2268	2402
3	24	BPSK	1/2	12	12	24	27	51	54	102	108
	25	QPSK	1/2	48	51	99	102	204	216	408	432
	26	QPSK	3/4	72	78	147	156	306	324	612	648
	27	16-QAM	1/2	99	102	195	207	408	432	816	846
	28	16-QAM	3/4	147	156	294	309	612	648	1224	1296
	29	64-QAM	2/3	195	207	390	414	816	864	1632	1728
	30	64-QAM	3/4	219	231	438	465	918	972	1839	1947
	31	64-QAM	5/6	243	258	489	516	1020	1080	2043	2163

	32	256-QAM	3/4	294	309	585	621	1224	1296	2451	2595
	33	256-QAM	5/6	324	345	651	687	1359	1440	2721	2883
	34	1024-QAM	3/4	366	387	732	774	1530	1620	3063	3243
	35	1024-QAM	5/6	405	429	813	861	1701	1800	3402	3603
4	36	BPSK	1/2	16	16	32	36	68	72	136	144
	37	QPSK	1/2	64	68	132	136	272	288	544	576
	38	QPSK	3/4	96	104	196	208	408	432	816	864
	39	16-QAM	1/2	132	136	260	276	544	576	1088	1128
	40	16-QAM	3/4	196	208	392	412	816	864	1632	1728
	41	64-QAM	2/3	260	276	520	552	1088	1152	2176	2304
	42	64-QAM	3/4	292	308	584	620	1224	1296	2452	2596
	43	64-QAM	5/6	324	344	652	688	1360	1440	2724	2884
	44	256-QAM	3/4	392	412	780	828	1632	1728	3268	3460
	45	256-QAM	5/6	432	460	868	916	1812	1920	3628	3844
	46	1024-QAM	3/4	488	516	976	1032	2040	2160	4084	4324
	47	1024-QAM	5/6	540	572	1084	1148	2268	2400	4536	4804

Note 1: The blue form is the maximum power data rate.

2: The EUT supports four spatial streams.

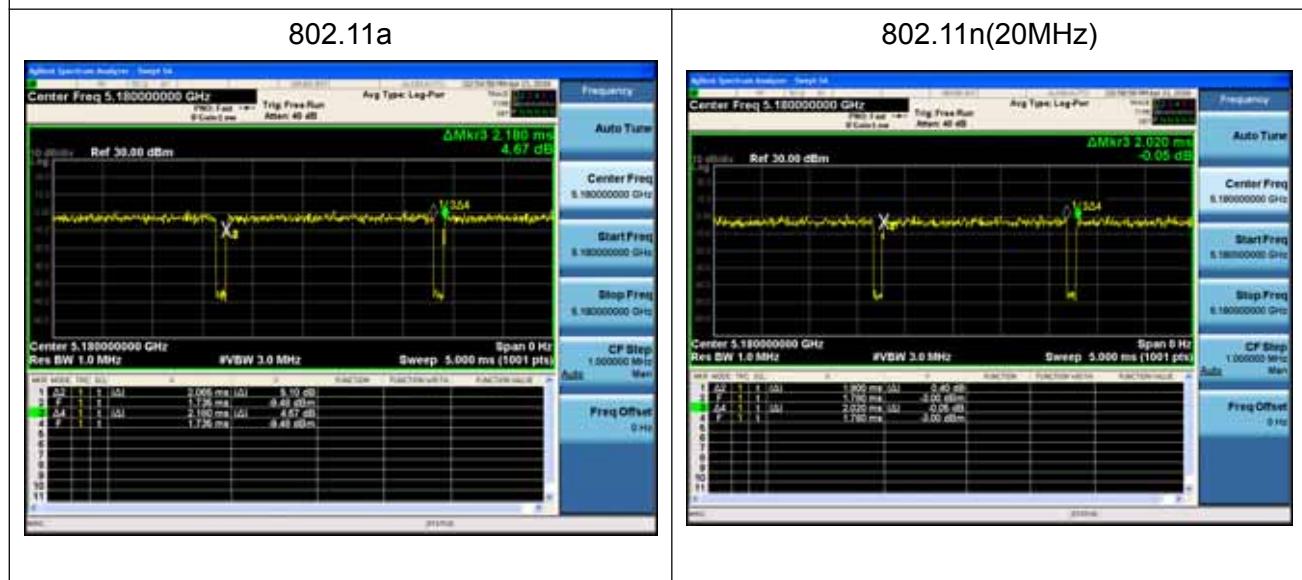
## 2.5. Duty Cycle

**CDD:**

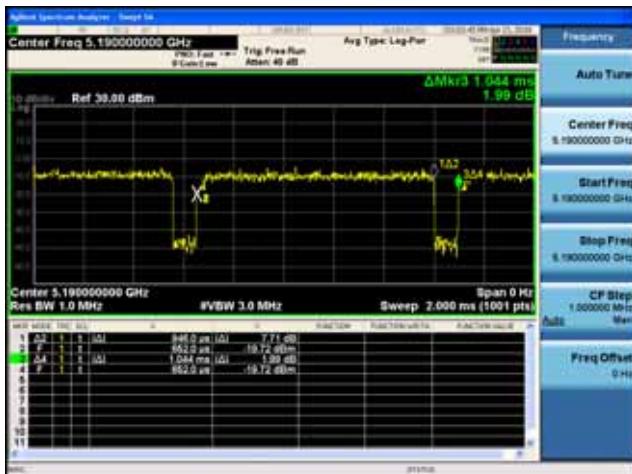
Test Mode	Tx On (ms)	Tx Off (ms)	VBW(Hz)	Tx On + Tx Off (ms)	Duty Cycle
802.11a	2.065	0.115	510	2.180	94.72%
802.11n(20MHz)	1.900	0.12	560	2.020	94.06%
802.11n(40MHz)	0.946	0.098	1.1k	1.044	90.61%
802.11ac(20MHz)	1.905	0.045	560	1.950	97.69%
802.11ac(40MHz)	0.912	0.07	1.1k	0.982	92.87%
802.11ac(80MHz)	0.421	0.067	2.4k	0.488	86.27%
802.11ax(20MHz)	1.475	0.035	680	1.510	97.68%
802.11ax(40MHz)	0.728	0.074	1.5k	0.802	90.77%
802.11ax(80MHz)	0.361	0.071	3k	0.432	83.56%
802.11ax(160MHz)	0.234	0.028	4.3k	0.262	89.31%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

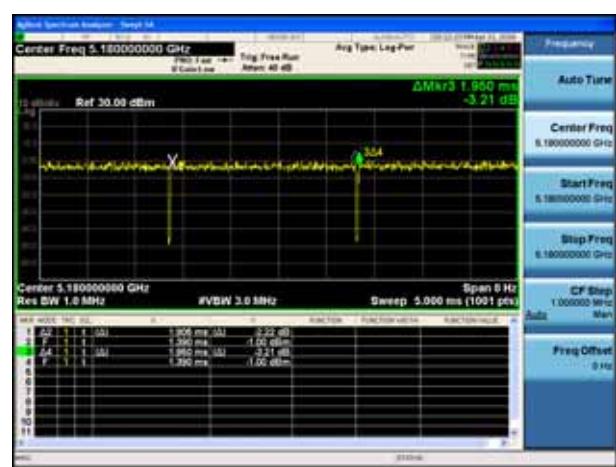
Note 2: According to KDB 789033 , when test for Radiated Emission Band Edge and Radiated Emission, VBW /T will be used.



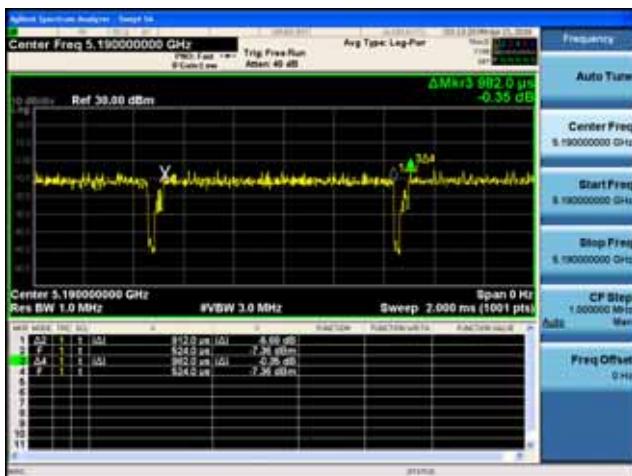
802.11n(40MHz)



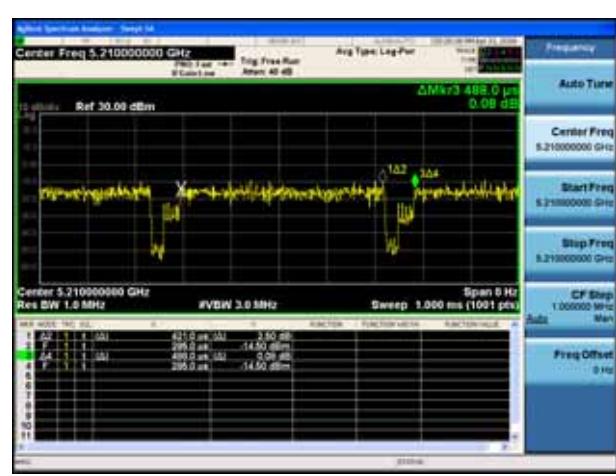
802.11ac(20MHz)



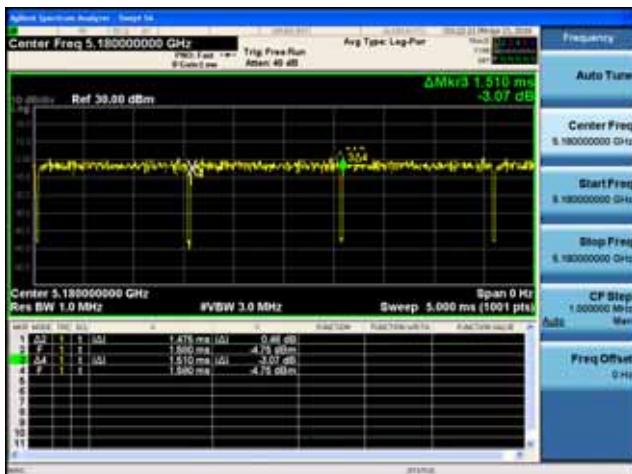
802.11ac(40MHz)



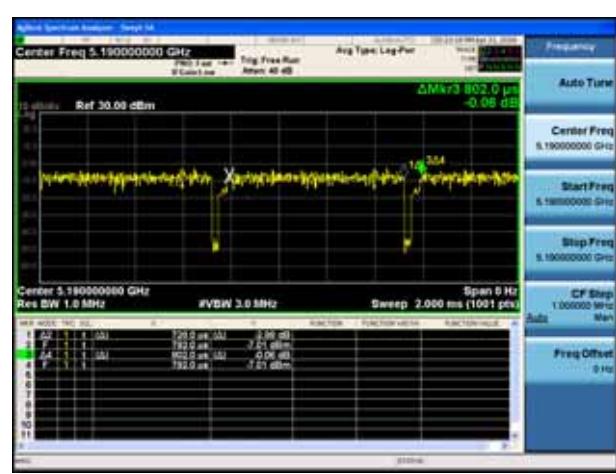
802.11ac(80MHz)



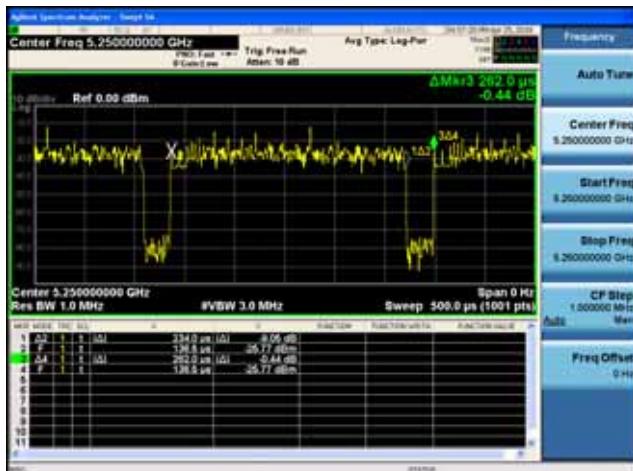
802.11ax(20MHz)



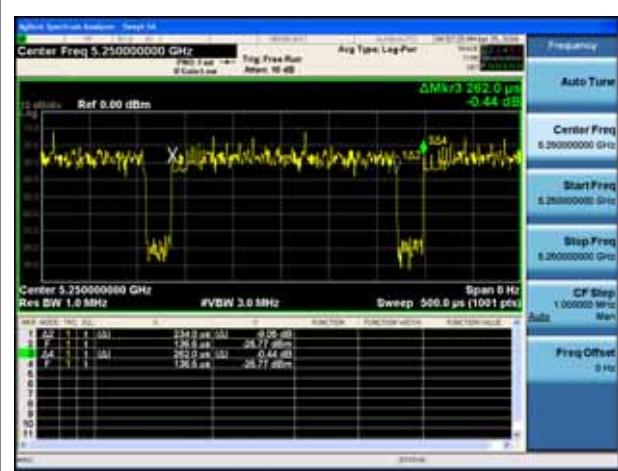
802.11ax(40MHz)



802.11ax(80MHz)



802.11ax(160MHz)

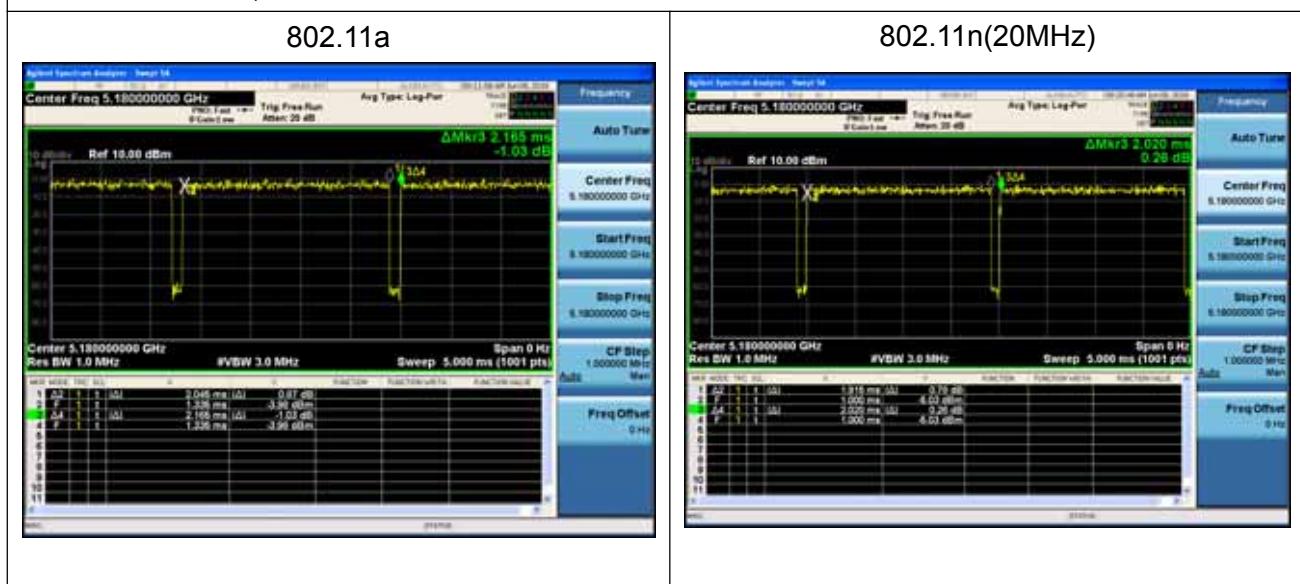


**Beam-forming:**

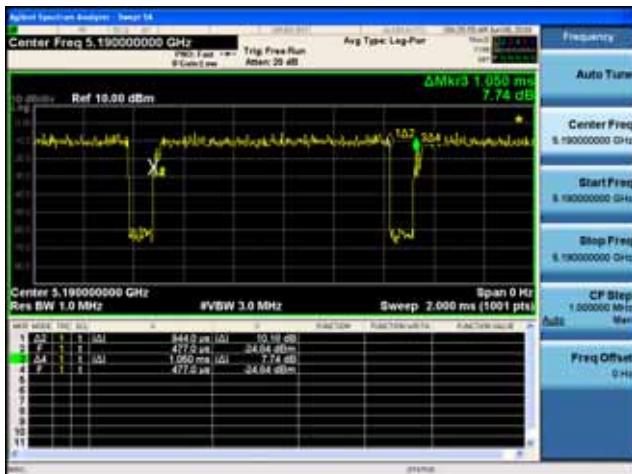
Test Mode	Tx On (ms)	Tx Off (ms)	VBW(Hz)	Tx On + Tx Off (ms)	Duty Cycle
802.11a	2.045	0.12	510	2.165	94.46%
802.11n(20MHz)	1.915	0.105	560	2.020	94.80%
802.11n(40MHz)	0.944	0.106	1.1k	1.050	89.90%
802.11ac(20MHz)	1.905	0.05	560	1.955	97.44%
802.11ac(40MHz)	0.944	0.036	1.1k	0.980	96.33%
802.11ac(80MHz)	0.459	0.03	2.2k	0.489	93.87%
802.11ax(20MHz)	1.473	0.048	680	1.521	96.84%
802.11ax(40MHz)	0.762	0.042	1.5k	0.804	94.78%
802.11ax(80MHz)	0.401	0.032	2.7k	0.433	92.61%
802.11ax(160MHz)	0.233	0.028	4.3	0.261	89.27%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033 , when test for Radiated Emission Band Edge and Radiated Emission, VBW / 1/T will be used.



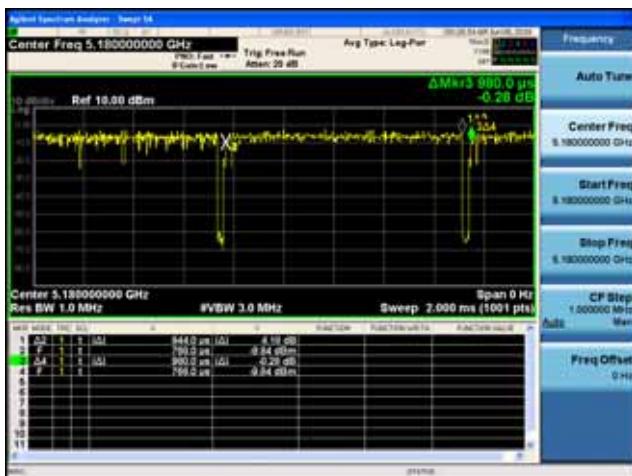
802.11n(40MHz)



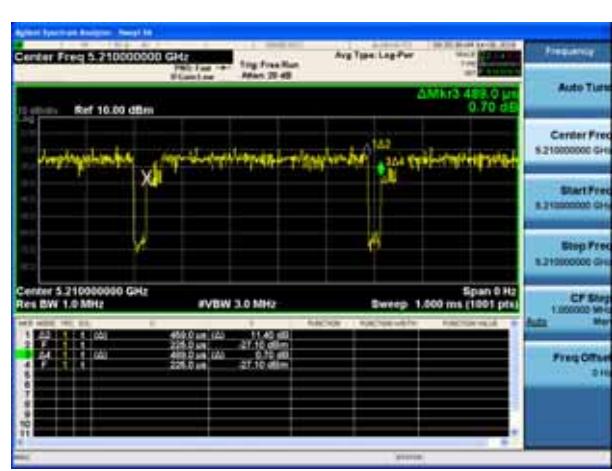
802.11ac(20MHz)



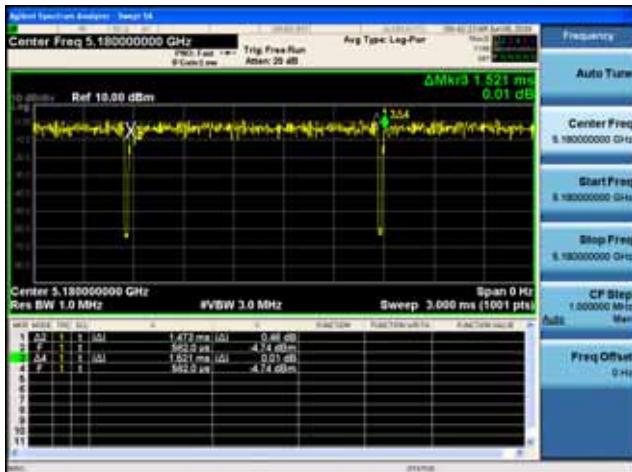
802.11ac(40MHz)



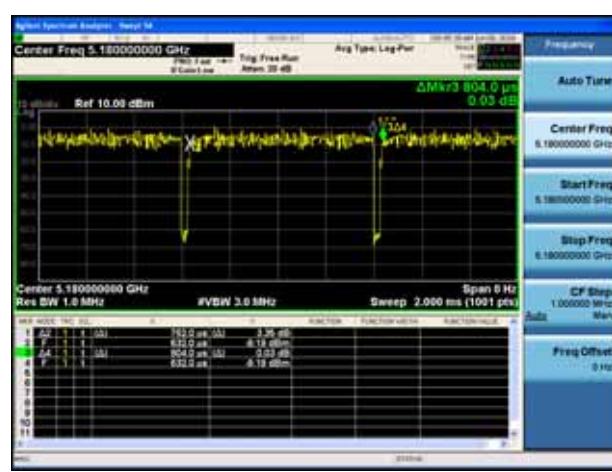
802.11ac(80MHz)



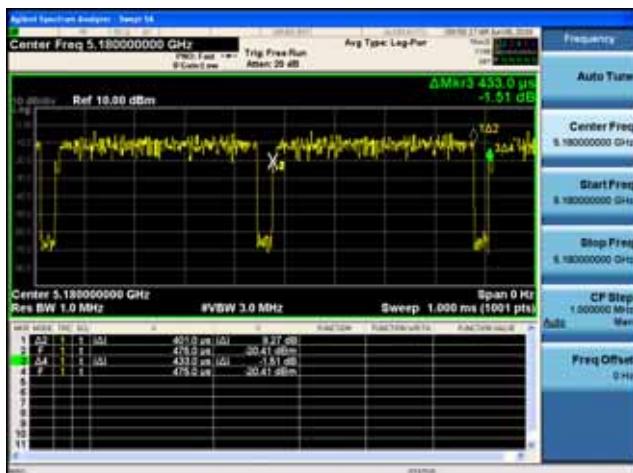
802.11ax(20MHz)



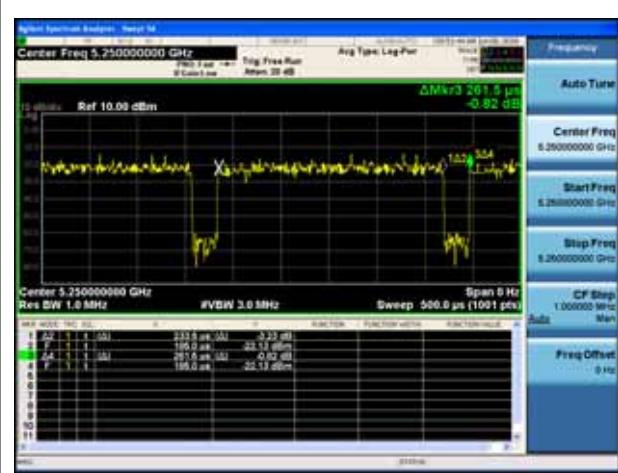
802.11ax(40MHz)



802.11ax(80MHz)



802.11ax(160MHz)



## 2.6. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

## 2.7. Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	± 2.02dB
Radiated Emission	Below 1GHz ± 3.8 dB
	Above 1GHz ± 3.9 dB
RF Antenna Port Conducted Emission	± 1.27dB
Radiated Emission Band Edge	± 3.9dB
Occupied Bandwidth	± 1kHz
Power Spectral Density	± 1.27dB
Frequency Stability	± 100 Hz

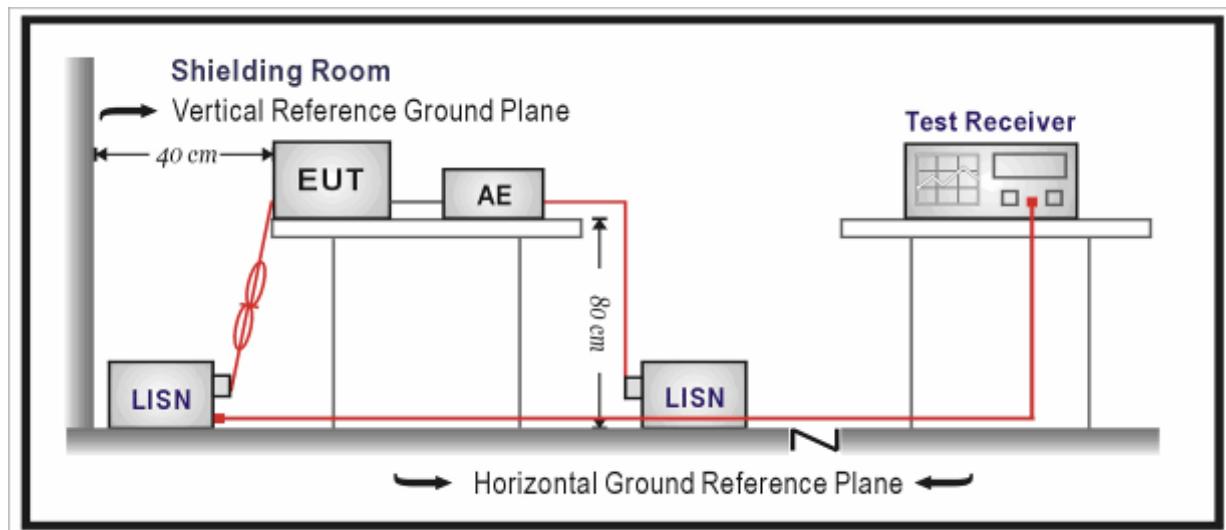
### 3. Conducted Emission

#### 3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2018.03.05	2019.03.04
Two-Line V-Network	R&S	ENV 216	101189	2017.06.16	2018.06.15
Two-Line V-Network	R&S	ENV 216	101044	2017.09.16	2018.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2017.09.16	2018.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2018.01.05	2019.01.04

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



### 3.3. Limit

Frequency (MHz)	QP (dB µ V)	AV (dB µ V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

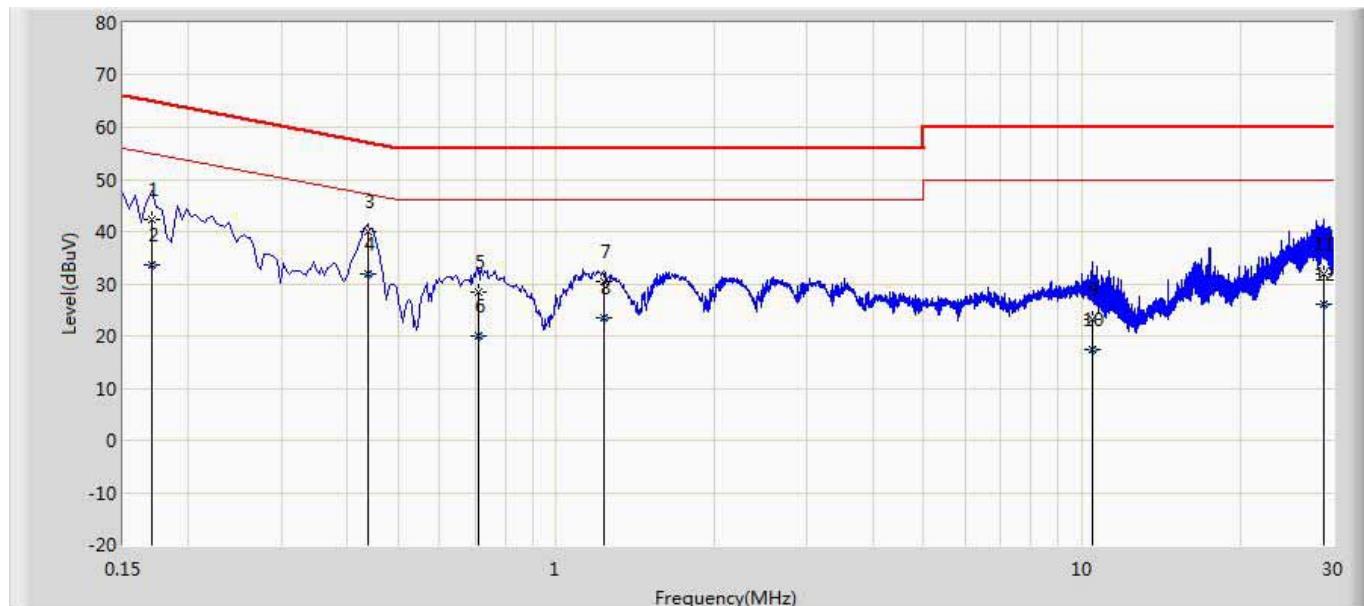
Note 1: The lower limit shall apply at the transition frequencies.  
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

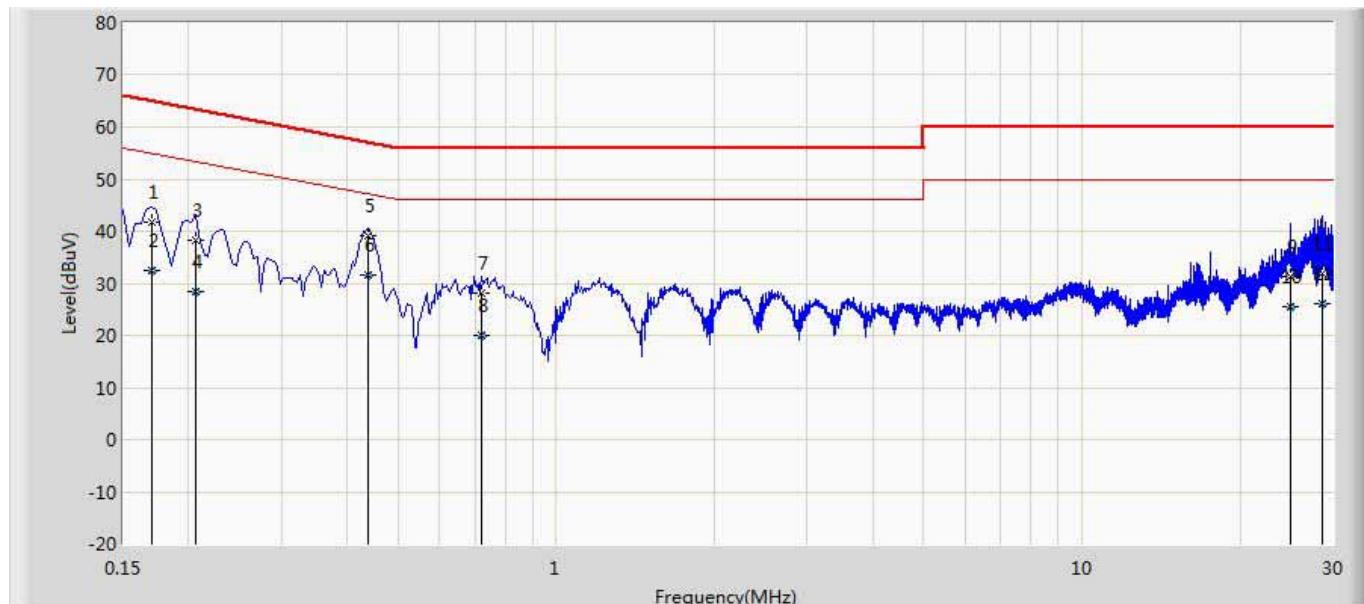
### 3.5. Test Result

Engineer: CptJack	
Site: TR1	Time: 2018/08/28
Limit: EN55032_CE_Mains_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Wireless Access Point	Power: AC 230V/50Hz
Note: Mode 1:Transmit at 2402MHz by BLE	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.170	42.457	32.824	-22.504	64.960	9.606	0.027	0.000	QP
2		0.170	33.651	24.018	-21.309	54.960	9.606	0.027	0.000	AV
3		0.438	39.874	30.234	-17.225	57.100	9.600	0.040	0.000	QP
4	*	0.438	31.884	22.244	-15.216	47.100	9.600	0.040	0.000	AV
5		0.710	28.530	18.880	-27.470	56.000	9.600	0.050	0.000	QP
6		0.710	19.886	10.235	-26.114	46.000	9.600	0.050	0.000	AV
7		1.230	30.408	20.732	-25.592	56.000	9.610	0.066	0.000	QP
8		1.230	23.370	13.694	-22.630	46.000	9.610	0.066	0.000	AV
9		10.454	23.197	13.209	-36.803	60.000	9.782	0.206	0.000	QP
10		10.454	17.509	7.521	-32.491	50.000	9.782	0.206	0.000	AV
11		28.806	31.809	21.058	-28.191	60.000	10.402	0.349	0.000	QP
12		28.806	26.214	15.463	-23.786	50.000	10.402	0.349	0.000	AV

Engineer: CptJack	
Site: TR1	Time: 2018/08/28
Limit: EN55032_CE_Mains_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Wireless Access Point	Power: AC 230V/50Hz
Note: Mode 1:Transmit at 2402MHz by BLE	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.170	41.843	32.221	-23.118	64.960	9.594	0.027	0.000	QP
2		0.170	32.583	22.961	-22.378	54.960	9.594	0.027	0.000	AV
3		0.206	38.325	28.698	-25.040	63.365	9.599	0.029	0.000	QP
4		0.206	28.272	18.644	-25.093	53.365	9.599	0.029	0.000	AV
5		0.438	39.232	29.600	-17.867	57.100	9.592	0.040	0.000	QP
6	*	0.438	31.495	21.863	-15.605	47.100	9.592	0.040	0.000	AV
7		0.722	28.038	18.397	-27.962	56.000	9.590	0.050	0.000	QP
8		0.722	19.952	10.312	-26.048	46.000	9.590	0.050	0.000	AV
9		24.898	31.193	20.219	-28.807	60.000	10.651	0.323	0.000	QP
10		24.898	25.391	14.417	-24.609	50.000	10.651	0.323	0.000	AV
11		28.638	31.927	20.962	-28.073	60.000	10.616	0.348	0.000	QP
12		28.638	26.137	15.173	-23.863	50.000	10.616	0.348	0.000	AV

**Note:**

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable+Amp).

## 4. Radiated Emission

### 4.1. Test Equipment

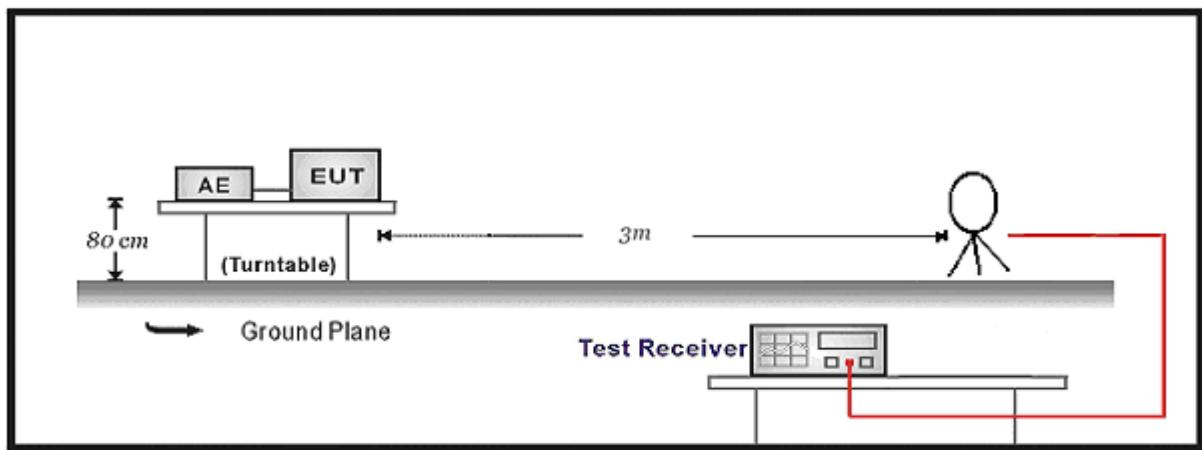
Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2018.03.29	2019.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2017.11.16	2018.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2017.10.16	2018.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2018.03.02	2019.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2018.01.04	2019.01.03

Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2018.01.04	2019.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2018.05.06	2019.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2018.05.06	2019.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2018.01.22	2019.01.21
Broad-Band Horn					
Antenna	Schwarzbeck	BBHA9170	294	2017.11.25	2018.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2018.03.02	2019.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2018.03.02	2019.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2018.03.02	2019.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2018.06.10	2019.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2018.01.04	2019.01.03

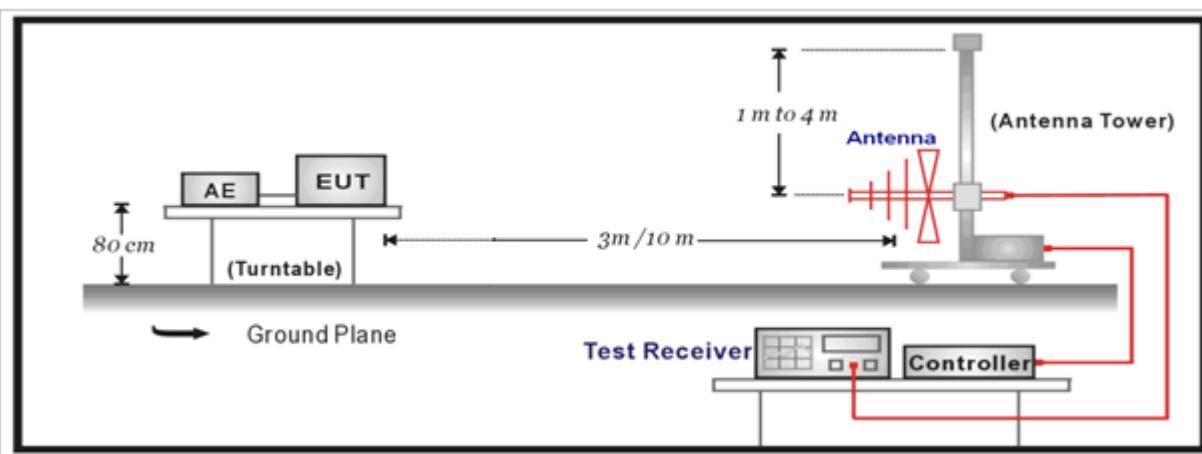
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 4.2. Test Setup

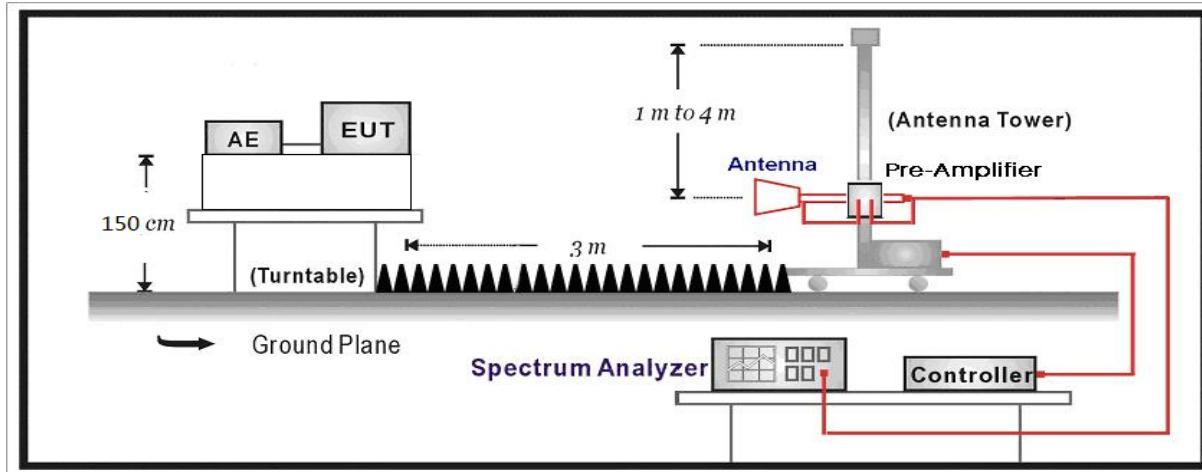
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



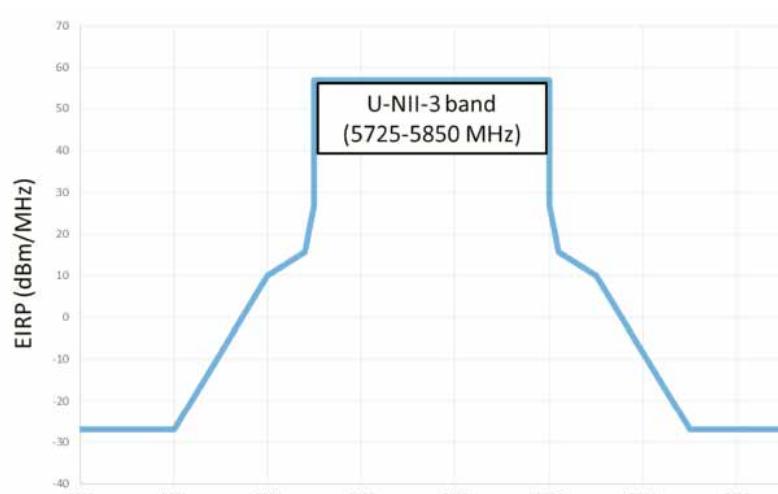
#### 4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB $\mu$ V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

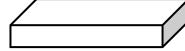
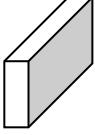
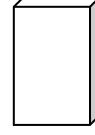
<b>FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)</b>			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

<b>FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)</b>		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB $\mu$ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850	 <p>The graph plots EIRP (dBm/MHz) on the y-axis (ranging from -40 to 70) against Frequency (MHz) on the x-axis (ranging from 5600 to 5950). The curve starts at approximately -30 dBm/MHz at 5600 MHz, remains flat until about 5650 MHz, then rises to about -10 dBm/MHz at 5700 MHz. It continues to rise sharply to a peak of about 18 dBm/MHz at 5775 MHz, before dropping to about 15 dBm/MHz at 5850 MHz, and finally leveling off at approximately -30 dBm/MHz between 5900 and 5950 MHz. A blue rectangular box highlights the frequency range from 5725 MHz to 5850 MHz, which corresponds to the U-NII-3 band.</p>	

#### 4.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
<input checked="" type="checkbox"/>	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	12.7.5	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	<input type="checkbox"/> ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	<input checked="" type="checkbox"/> ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
<input type="checkbox"/>	FCC KDB 789033 D02v01r04	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
<input type="checkbox"/>	FCC KDB 789033 D02v01r04	G.1	Unwanted Emissions in the Restricted Bands
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

#### 4.5. EUT test Axis definition

Item	Radiated Emission		
Device Category	<input checked="" type="checkbox"/> Indoor use		
	<input type="checkbox"/> Outdoor use		
	<input type="checkbox"/> Fix position use		
	<input type="checkbox"/> Client use		
Test mode	Mode 1-20		
Test method	<input checked="" type="checkbox"/> Radiated		
		X Axis	Y Axis
			
			
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>
		Worst Axis <input type="checkbox"/>	
	<input type="checkbox"/> Conducted		
	<input type="checkbox"/> Chain 1		
			
	<input type="checkbox"/> Chain 1	Chain 2	
			
	<input type="checkbox"/> Chain 1	Chain 2	Chain 3
			

#### 4.6. Test Result

**Note:**

- Appendix 1: CDD Ant 2x2 RSE**
- Appendix 2: CDD Ant 4x4 RSE**
- Appendix 3: Beam-Forming Ant 2x2 RSE**
- Appendix 4: Beam-Forming Ant 4x4 RSE**
- Appendix 5: Worst case RSE**

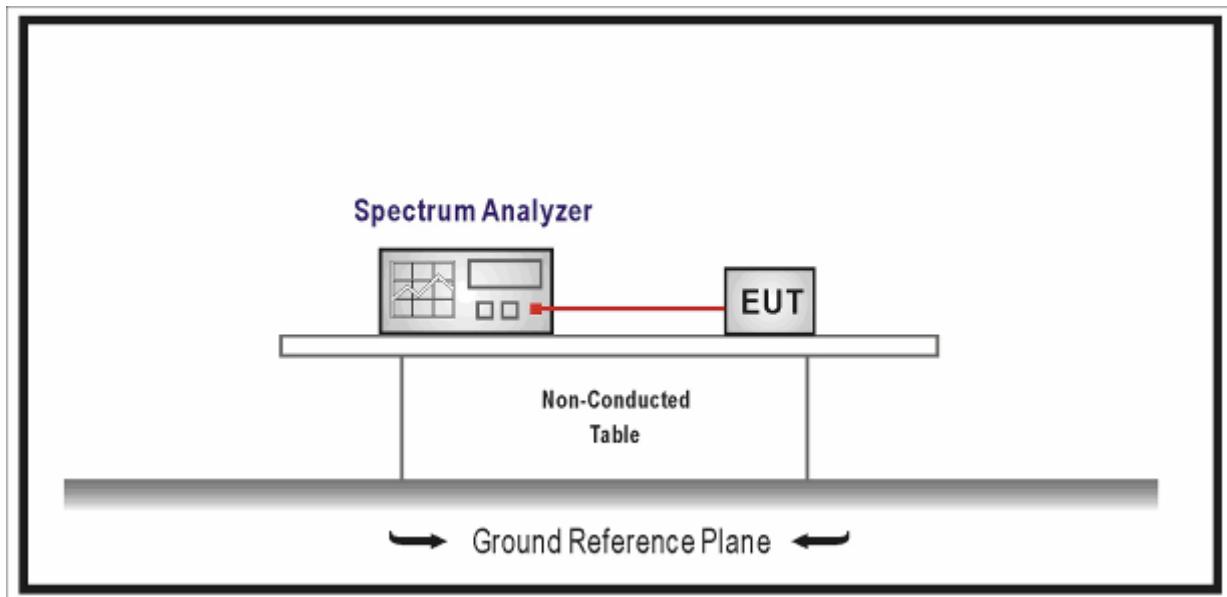
## 5. Emission bandwidth and occupied bandwidth

### 5.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



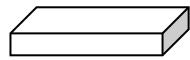
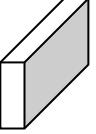
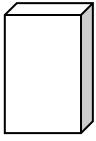
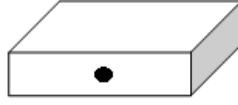
### 5.3. Limit

N/A

## 5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
<input checked="" type="checkbox"/>	<input type="checkbox"/> ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	<input type="checkbox"/> ANSI C63.10	12.4.2	Occupied bandwidth (99%)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

## 5.5. EUT test Axis definition

Item	Occupied bandwidth			
Device Category	<input checked="" type="checkbox"/>	Indoor use		
	<input type="checkbox"/>	Outdoor use		
	<input type="checkbox"/>	Fix position use		
	<input type="checkbox"/>	Client use		
Test mode	Mode 1-20			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 5.6. Test Result

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~20	Test Site	:	TR8
Test Date	:	2018.05.24	Test Engineer	:	Tommy

### Mode 1: Transmit by 802.11a with CDD by ant0+1

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	22.08	16.901	5171.550	Pass
CH44	5220	26.15	16.952	N/A	Pass
CH48	5240	26.34	16.965	5248.483	Pass
CH52	5260	22.14	16.932	N/A	Pass
CH60	5300	25.75	16.984	N/A	Pass
CH64	5320	25.85	16.927	N/A	Pass
CH100	5500	27.79	16.942	N/A	Pass
CH116	5580	29.52	17.119	N/A	Pass
CH140	5700	29.49	17.328	N/A	Pass
CH144	5720	29.18	17.216	N/A	Pass
CH149	5745	29.96	17.444	N/A	Pass
CH157	5785	29.26	17.119	N/A	Pass
CH165	5825	29.22	17.099	N/A	Pass

**Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.35	16.789	5171.606	Pass
CH44	5220	21.45	16.744	N/A	Pass
CH48	5240	21.21	16.784	5248.392	Pass
CH52	5260	21.39	16.824	N/A	Pass
CH60	5300	21.37	16.763	N/A	Pass
CH64	5320	21.09	16.790	N/A	Pass
CH100	5500	21.45	16.825	N/A	Pass
CH116	5580	21.43	16.768	N/A	Pass
CH140	5700	21.12	16.789	N/A	Pass
CH144	5720	21.02	16.841	N/A	Pass
CH149	5745	29.17	17.062	N/A	Pass
CH157	5785	29.92	17.272	N/A	Pass
CH165	5825	28.51	17.015	N/A	Pass

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.46	17.945	5171.028	Pass
CH44	5220	21.70	17.967	N/A	Pass
CH48	5240	22.63	17.947	5248.974	Pass
CH52	5260	22.01	17.925	N/A	Pass
CH60	5300	24.01	17.939	N/A	Pass
CH64	5320	22.92	17.900	N/A	Pass
CH100	5500	22.34	17.976	N/A	Pass
CH116	5580	29.34	18.097	N/A	Pass
CH140	5700	29.99	18.420	N/A	Pass
CH144	5720	28.87	18.212	N/A	Pass
CH149	5745	29.99	18.224	N/A	Pass
CH157	5785	29.42	18.090	N/A	Pass
CH165	5825	30.00	18.114	N/A	Pass

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.50	17.880	5171.060	Pass
CH44	5220	21.22	17.859	N/A	Pass
CH48	5240	21.52	17.875	5248.938	Pass
CH52	5260	21.52	17.920	N/A	Pass
CH60	5300	21.51	17.915	N/A	Pass
CH64	5320	21.45	17.911	N/A	Pass
CH100	5500	21.41	17.908	N/A	Pass
CH116	5580	21.54	17.888	N/A	Pass
CH140	5700	21.50	17.950	N/A	Pass
CH144	5720	21.51	17.873	N/A	Pass
CH149	5745	24.86	18.022	N/A	Pass
CH157	5785	28.87	18.112	N/A	Pass
CH165	5825	24.77	18.035	N/A	Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.50	36.383	5171.809	Pass
CH46	5230	39.40	36.401	5248.201	Pass
CH54	5270	39.64	36.402	N/A	Pass
CH62	5310	39.86	36.368	N/A	Pass
CH102	5510	39.55	36.350	N/A	Pass
CH110	5550	39.88	36.343	N/A	Pass
CH134	5670	56.99	36.547	N/A	Pass
CH142	5710	56.85	36.158	N/A	Pass
CH151	5755	59.55	36.740	N/A	Pass
CH159	5795	56.49	36.575	N/A	Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.50	36.402	5171.799	Pass
CH46	5230	39.34	36.290	5248.145	Pass
CH54	5270	39.47	36.380	N/A	Pass
CH62	5310	39.48	36.343	N/A	Pass
CH102	5510	39.90	36.383	N/A	Pass
CH110	5550	39.67	36.297	N/A	Pass
CH134	5670	39.68	36.294	N/A	Pass
CH142	5710	39.22	36.221	N/A	Pass
CH151	5755	57.19	36.557	N/A	Pass
CH159	5795	60.00	37.082	N/A	Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.54	17.956	5171.022	Pass
CH44	5220	22.76	17.963	N/A	Pass
CH48	5240	22.55	17.976	5248.988	Pass
CH52	5260	22.51	17.956	N/A	Pass
CH60	5300	22.44	18.004	N/A	Pass
CH64	5320	21.68	17.966	N/A	Pass
CH100	5500	24.56	17.980	N/A	Pass
CH116	5580	28.78	18.120	N/A	Pass
CH140	5700	29.14	18.170	N/A	Pass
CH144	5720	29.11	18.110	N/A	Pass
CH149	5745	28.26	18.179	N/A	Pass
CH157	5785	26.65	18.152	N/A	Pass
CH165	5825	29.94	18.129	N/A	Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.54	17.924	5171.038	Pass
CH44	5220	21.55	17.925	N/A	Pass
CH48	5240	21.39	17.942	5248.971	Pass
CH52	5260	21.55	17.936	N/A	Pass
CH60	5300	21.31	17.950	N/A	Pass
CH64	5320	21.68	17.992	N/A	Pass
CH100	5500	21.53	18.004	N/A	Pass
CH116	5580	21.43	17.951	N/A	Pass
CH140	5700	21.17	17.975	N/A	Pass
CH144	5720	21.38	17.994	N/A	Pass
CH149	5745	22.48	18.053	N/A	Pass
CH157	5785	26.48	18.129	N/A	Pass
CH165	5825	28.98	18.082	N/A	Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.80	36.331	5171.835	Pass
CH46	5230	39.78	36.360	5248.180	Pass
CH54	5270	39.60	36.359	N/A	Pass
CH62	5310	39.81	36.321	N/A	Pass
CH102	5510	39.79	36.370	N/A	Pass
CH110	5550	39.77	36.270	N/A	Pass
CH134	5670	46.39	36.506	N/A	Pass
CH142	5710	46.36	36.053	N/A	Pass
CH151	5755	57.95	36.569	N/A	Pass
CH159	5795	56.80	36.648	N/A	Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.34	36.423	5171.789	Pass
CH46	5230	39.81	36.390	5248.195	Pass
CH54	5270	39.57	36.400	N/A	Pass
CH62	5310	39.77	36.419	N/A	Pass
CH102	5510	39.60	36.415	N/A	Pass
CH110	5550	39.59	36.382	N/A	Pass
CH134	5670	39.87	36.339	N/A	Pass
CH142	5710	39.59	37.565	N/A	Pass
CH151	5755	57.85	36.535	N/A	Pass
CH159	5795	60.00	36.997	N/A	Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.47	77.139	5171.431/5248.570	Pass
CH58	5290	81.88	77.242	N/A	Pass
CH106	5530	81.17	77.149	N/A	Pass
CH138	5690	81.11	77.197	N/A	Pass
CH155	5775	113.8	77.414	N/A	Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.29	75.496	5172.252/5247.748	Pass
CH58	5290	81.38	75.749	N/A	Pass
CH106	5530	81.45	75.628	N/A	Pass
CH138	5690	80.06	76.915	N/A	Pass
CH155	5775	81.35	75.764	N/A	Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	22.24	19.104	5170.448	Pass
CH44	5220	24.21	19.124	N/A	Pass
CH48	5240	23.99	19.099	5249.550	Pass
CH52	5260	21.85	19.093	N/A	Pass
CH60	5300	21.62	19.063	N/A	Pass
CH64	5320	22.72	19.152	N/A	Pass
CH100	5500	24.19	19.033	N/A	Pass
CH116	5580	29.16	19.165	N/A	Pass
CH140	5700	29.79	19.247	N/A	Pass
CH144	5720	29.72	19.217	N/A	Pass
CH149	5745	29.81	19.268	N/A	Pass
CH157	5785	30.00	19.248	N/A	Pass
CH165	5825	27.70	19.120	N/A	Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.61	19.048	5170.476	Pass
CH44	5220	21.34	19.055	N/A	Pass
CH48	5240	21.34	19.063	5249.532	Pass
CH52	5260	21.19	19.104	N/A	Pass
CH60	5300	21.15	19.089	N/A	Pass
CH64	5320	21.23	19.038	N/A	Pass
CH100	5500	21.34	19.025	N/A	Pass
CH116	5580	21.32	19.012	N/A	Pass
CH140	5700	21.53	19.077	N/A	Pass
CH144	5720	21.48	19.129	N/A	Pass
CH149	5745	29.04	19.160	N/A	Pass
CH157	5785	22.82	19.112	N/A	Pass
CH165	5825	22.36	19.141	N/A	Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	40.01	37.497	5171.252	Pass
CH46	5230	40.12	37.595	5248.798	Pass
CH54	5270	40.08	37.590	N/A	Pass
CH62	5310	40.11	37.546	N/A	Pass
CH102	5510	39.99	37.351	N/A	Pass
CH110	5550	39.99	37.577	N/A	Pass
CH134	5670	48.56	37.662	N/A	Pass
CH142	5710	49.62	37.726	N/A	Pass
CH151	5755	49.29	37.622	N/A	Pass
CH159	5795	49.69	37.705	N/A	Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.93	37.573	5171.214	Pass
CH46	5230	39.86	37.600	5248.800	Pass
CH54	5270	40.19	37.595	N/A	Pass
CH62	5310	40.13	37.546	N/A	Pass
CH102	5510	39.82	37.609	N/A	Pass
CH110	5550	39.98	37.572	N/A	Pass
CH134	5670	40.19	37.694	N/A	Pass
CH142	5710	39.33	37.618	N/A	Pass
CH151	5755	55.64	37.731	N/A	Pass
CH159	5795	58.90	37.863	N/A	Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.56	77.044	5171.478/5248.522	Pass
CH58	5290	81.76	77.193	N/A	Pass
CH106	5530	81.61	77.180	N/A	Pass
CH138	5690	81.11	77.071	N/A	Pass
CH155	5775	113.7	77.401	N/A	Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.43	77.002	5171.499/5248.501	Pass
CH58	5290	81.06	77.147	N/A	Pass
CH106	5530	81.48	77.025	N/A	Pass
CH138	5690	79.51	77.007	N/A	Pass
CH155	5775	81.86	77.087	N/A	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH50	5250	154.6	154.43	N/A	Pass
CH144	5570	154.9	154.59	N/A	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH50	5250	163.4	154.13	N/A	Pass
CH144	5570	163.5	154.15	N/A	Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	22.25	16.915	5171.543	Pass
CH44	5220	23.99	16.983	N/A	Pass
CH48	5240	23.77	16.903	5248.452	Pass
CH52	5260	22.02	16.839	N/A	Pass
CH60	5300	22.35	16.860	N/A	Pass
CH64	5320	21.98	16.853	N/A	Pass
CH100	5500	21.33	16.834	N/A	Pass
CH116	5580	21.65	16.945	N/A	Pass
CH140	5700	22.06	16.855	N/A	Pass
CH144	5720	21.19	17.006	N/A	Pass
CH149	5745	28.46	17.570	N/A	Pass
CH157	5785	28.87	17.288	N/A	Pass
CH165	5825	29.30	18.046	N/A	Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.12	16.850	5171.575	Pass
CH44	5220	20.90	16.801	N/A	Pass
CH48	5240	21.31	16.833	5248.417	Pass
CH52	5260	21.04	16.812	N/A	Pass
CH60	5300	21.47	16.780	N/A	Pass
CH64	5320	21.31	16.790	N/A	Pass
CH100	5500	21.08	16.804	N/A	Pass
CH116	5580	21.34	16.822	N/A	Pass
CH140	5700	21.17	16.798	N/A	Pass
CH144	5720	21.20	16.825	N/A	Pass
CH149	5745	28.05	16.969	N/A	Pass
CH157	5785	29.05	17.173	N/A	Pass
CH165	5825	29.15	17.225	N/A	Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.61	17.898	5171.051	Pass
CH44	5220	22.34	17.894	N/A	Pass
CH48	5240	21.74	17.937	5248.969	Pass
CH52	5260	21.63	17.895	N/A	Pass
CH60	5300	21.80	17.858	N/A	Pass
CH64	5320	21.77	17.904	N/A	Pass
CH100	5500	21.53	17.876	N/A	Pass
CH116	5580	21.59	17.907	N/A	Pass
CH140	5700	21.37	17.883	N/A	Pass
CH144	5720	21.37	18.546	N/A	Pass
CH149	5745	24.75	18.081	N/A	Pass
CH157	5785	28.50	18.957	N/A	Pass
CH165	5825	24.98	18.131	N/A	Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.31	17.934	5171.033	Pass
CH44	5220	21.30	17.876	N/A	Pass
CH48	5240	21.68	17.925	5248.963	Pass
CH52	5260	21.27	17.920	N/A	Pass
CH60	5300	21.28	17.906	N/A	Pass
CH64	5320	21.57	17.911	N/A	Pass
CH100	5500	21.37	17.902	N/A	Pass
CH116	5580	21.55	17.886	N/A	Pass
CH140	5700	21.36	17.894	N/A	Pass
CH144	5720	21.35	17.897	N/A	Pass
CH149	5745	24.32	18.028	N/A	Pass
CH157	5785	28.51	18.149	N/A	Pass
CH165	5825	24.25	18.003	N/A	Pass

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.68	36.336	5171.832	Pass
CH46	5230	39.71	36.313	5248.157	Pass
CH54	5270	39.73	36.348	N/A	Pass
CH62	5310	39.62	36.274	N/A	Pass
CH102	5510	39.69	36.308	N/A	Pass
CH110	5550	39.78	36.379	N/A	Pass
CH134	5670	53.09	36.518	N/A	Pass
CH142	5710	39.02	36.495	N/A	Pass
CH151	5755	55.85	36.812	N/A	Pass
CH159	5795	59.70	37.292	N/A	Pass

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.48	36.307	5171.847	Pass
CH46	5230	39.50	36.323	5248.162	Pass
CH54	5270	39.84	36.353	N/A	Pass
CH62	5310	39.71	36.228	N/A	Pass
CH102	5510	39.47	36.340	N/A	Pass
CH110	5550	39.56	36.239	N/A	Pass
CH134	5670	39.54	36.311	N/A	Pass
CH142	5710	39.27	36.188	N/A	Pass
CH151	5755	55.84	36.564	N/A	Pass
CH159	5795	60.00	37.025	N/A	Pass

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.41	17.939	5171.031	Pass
CH44	5220	21.96	17.936	N/A	Pass
CH48	5240	21.71	17.936	5248.968	Pass
CH52	5260	21.51	17.923	N/A	Pass
CH60	5300	21.54	17.956	N/A	Pass
CH64	5320	22.05	17.929	N/A	Pass
CH100	5500	21.39	17.949	N/A	Pass
CH116	5580	21.57	17.889	N/A	Pass
CH140	5700	21.48	17.961	N/A	Pass
CH144	5720	21.88	18.388	N/A	Pass
CH149	5745	26.87	18.680	N/A	Pass
CH157	5785	27.25	18.542	N/A	Pass
CH165	5825	24.88	18.307	N/A	Pass

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.58	17.957	5171.022	Pass
CH44	5220	21.61	17.979	N/A	Pass
CH48	5240	21.57	17.933	5248.967	Pass
CH52	5260	21.62	17.958	N/A	Pass
CH60	5300	21.43	17.973	N/A	Pass
CH64	5320	21.59	17.931	N/A	Pass
CH100	5500	21.33	17.976	N/A	Pass
CH116	5580	21.59	17.956	N/A	Pass
CH140	5700	21.43	17.963	N/A	Pass
CH144	5720	21.57	17.923	N/A	Pass
CH149	5745	26.14	18.045	N/A	Pass
CH157	5785	27.50	18.141	N/A	Pass
CH165	5825	24.83	18.123	N/A	Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.89	36.387	5171.807	Pass
CH46	5230	39.85	36.365	5248.183	Pass
CH54	5270	39.94	36.394	N/A	Pass
CH62	5310	40.01	36.329	N/A	Pass
CH102	5510	39.79	36.352	N/A	Pass
CH110	5550	39.66	36.302	N/A	Pass
CH134	5670	52.57	36.541	N/A	Pass
CH142	5710	40.04	37.555	N/A	Pass
CH151	5755	59.07	37.061	N/A	Pass
CH159	5795	59.78	36.983	N/A	Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.44	36.389	5171.806	Pass
CH46	5230	39.45	36.399	5248.200	Pass
CH54	5270	40.18	36.427	N/A	Pass
CH62	5310	39.57	36.362	N/A	Pass
CH102	5510	39.50	36.437	N/A	Pass
CH110	5550	39.53	36.377	N/A	Pass
CH134	5670	39.45	36.380	N/A	Pass
CH142	5710	39.92	37.548	N/A	Pass
CH151	5755	58.88	36.634	N/A	Pass
CH159	5795	59.82	36.941	N/A	Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.25	75.717	5172.142/5247.859	Pass
CH58	5290	82.06	75.788	N/A	Pass
CH106	5530	81.81	75.655	N/A	Pass
CH138	5690	79.67	76.862	N/A	Pass
CH155	5775	80.96	75.625	N/A	Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	80.89	75.509	5172.246/5247.755	Pass
CH58	5290	80.79	75.632	N/A	Pass
CH106	5530	81.63	75.751	N/A	Pass
CH138	5690	79.77	77.154	N/A	Pass
CH155	5775	81.32	75.829	N/A	Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.18	19.074	5170.463	Pass
CH44	5220	22.33	19.105	N/A	Pass
CH48	5240	22.36	19.042	5249.521	Pass
CH52	5260	23.27	19.100	N/A	Pass
CH60	5300	21.55	19.061	N/A	Pass
CH64	5320	22.88	19.090	N/A	Pass
CH100	5500	21.14	19.105	N/A	Pass
CH116	5580	21.38	19.102	N/A	Pass
CH140	5700	21.70	19.150	N/A	Pass
CH144	5720	22.07	19.456	N/A	Pass
CH149	5745	28.21	19.299	N/A	Pass
CH157	5785	26.49	19.294	N/A	Pass
CH165	5825	23.43	19.256	N/A	Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH36	5180	21.42	19.046	5170.477	Pass
CH44	5220	21.46	19.168	N/A	Pass
CH48	5240	21.71	19.086	5249.543	Pass
CH52	5260	21.52	19.049	N/A	Pass
CH60	5300	21.41	19.051	N/A	Pass
CH64	5320	21.14	18.986	N/A	Pass
CH100	5500	21.26	19.071	N/A	Pass
CH116	5580	21.19	19.084	N/A	Pass
CH140	5700	21.39	19.043	N/A	Pass
CH144	5720	21.51	19.018	N/A	Pass
CH149	5745	27.54	19.213	N/A	Pass
CH157	5785	26.29	19.133	N/A	Pass
CH165	5825	23.09	19.043	N/A	Pass

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	39.88	37.552	5171.224	Pass
CH46	5230	40.01	37.569	5248.785	Pass
CH54	5270	39.75	37.578	N/A	Pass
CH62	5310	40.00	37.530	N/A	Pass
CH102	5510	39.85	37.482	N/A	Pass
CH110	5550	39.92	37.530	N/A	Pass
CH134	5670	45.15	37.627	N/A	Pass
CH142	5710	39.39	37.909	N/A	Pass
CH151	5755	52.41	37.748	N/A	Pass
CH159	5795	49.81	38.048	N/A	Pass

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH38	5190	40.01	37.676	5171.162	Pass
CH46	5230	39.85	37.622	5248.811	Pass
CH54	5270	40.21	37.539	N/A	Pass
CH62	5310	39.88	37.576	N/A	Pass
CH102	5510	40.35	37.612	N/A	Pass
CH110	5550	40.10	37.596	N/A	Pass
CH134	5670	39.70	37.552	N/A	Pass
CH142	5710	39.71	37.680	N/A	Pass
CH151	5755	52.90	37.776	N/A	Pass
CH159	5795	50.00	37.868	N/A	Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.63	77.056	5171.472/5248.528	Pass
CH58	5290	81.63	77.237	N/A	Pass
CH106	5530	81.61	77.088	N/A	Pass
CH138	5690	79.53	77.174	N/A	Pass
CH155	5775	82.48	77.038	N/A	Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH42	5210	81.72	77.014	5171.493/5248.507	Pass
CH58	5290	82.03	77.248	N/A	Pass
CH106	5530	81.28	77.066	N/A	Pass
CH138	5690	79.91	77.101	N/A	Pass
CH155	5775	82.51	77.222	N/A	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

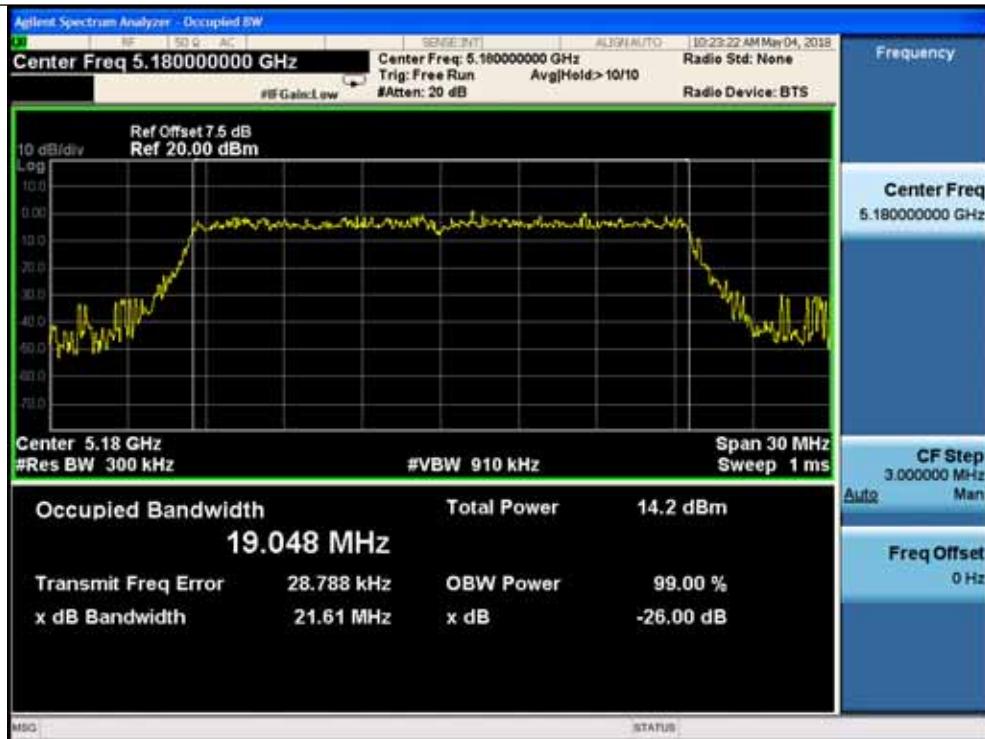
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH50	5250	163.2	154.45	N/A	Pass
CH144	5570	164.7	154.61	N/A	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
CH50	5250	163.4	154.16	N/A	Pass
CH144	5570	163.7	154.26	N/A	Pass

The worst case of Occupied Bandwidth as below:

**Mode 7: CH36 (5180MHz) by ant0+1+2+3**



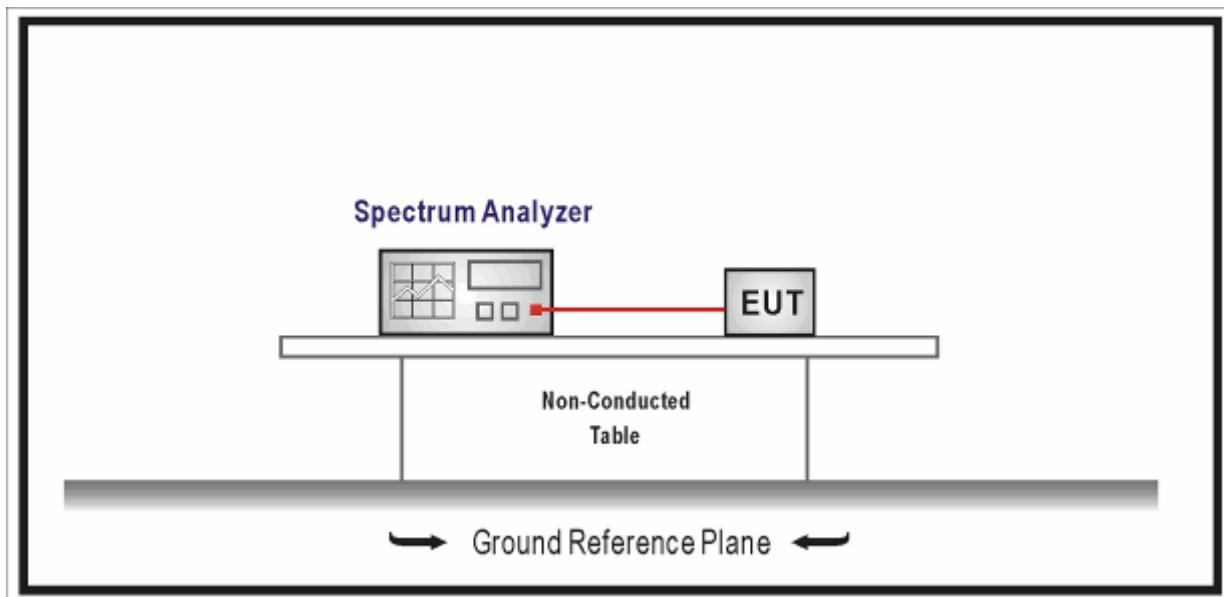
## 6. 6dB bandwidth

### 6.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 6.2. Test Setup



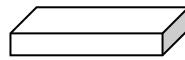
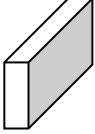
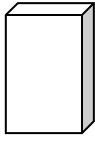
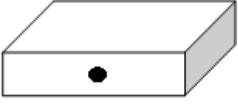
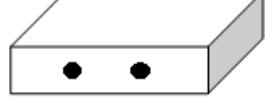
### 6.3. Limit

>500kHz

## 6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
<input checked="" type="checkbox"/>	<input type="checkbox"/> ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	<input type="checkbox"/> ANSI C63.10	12.4.2	Occupied bandwidth (99%)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
<input checked="" type="checkbox"/>	<input type="checkbox"/> FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	<input checked="" type="checkbox"/> FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

## 6.5. EUT test Axis definition

Item	6dB bandwidth			
Device Category	<input checked="" type="checkbox"/>	Indoor use		
	<input type="checkbox"/>	Outdoor use		
	<input type="checkbox"/>	Fix position use		
	<input type="checkbox"/>	Client use		
Test mode	Mode 1-20			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 6.6. Test Result

Product Name	: Wireless Access Point	Power	: AC 120V/60Hz
Test Mode	: Mode 1~20	Test Site	: TR8
Test Date	: 2018.05.28	Test Engineer	: Tommy

### Mode 1: Transmit by 802.11a with CDD by ant0+1

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.37	>500	Pass
157	5785	16.54		Pass
165	5825	16.40		Pass

### Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.36	>500	Pass
157	5785	16.40		Pass
165	5825	16.39		Pass

### Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.61	>500	Pass
157	5785	17.63		Pass
165	5825	17.61		Pass

### Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.61	>500	Pass
157	5785	17.58		Pass
165	5825	17.62		Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.36	>500	Pass
159	5795	36.36		Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.36	>500	Pass
159	5795	36.35		Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.58	>500	Pass
157	5785	17.60		Pass
165	5825	17.60		Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.59	>500	Pass
157	5785	17.78		Pass
165	5825	17.61		Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.39	>500	Pass
159	5795	36.38		Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.38	>500	Pass
159	5795	36.36		Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	76.17	>500	Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	76.45	>500	Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	18.38	>500	Pass
157	5785	18.57		Pass
165	5825	18.76		Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	18.92	>500	Pass
157	5785	18.56		Pass
165	5825	18.70		Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	37.26	>500	Pass
159	5795	37.33		Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	37.32	>500	Pass
159	5795	37.33		Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	76.41	>500	Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	76.96	>500	Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.38	>500	Pass
157	5785	16.37		Pass
165	5825	16.36		Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.40	>500	Pass
157	5785	16.38		Pass
165	5825	16.37		Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.61	>500	Pass
157	5785	17.64		Pass
165	5825	17.61		Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.63	>500	Pass
157	5785	17.63		Pass
165	5825	17.61		Pass

<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1</b>				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.36	>500	Pass
159	5795	36.37		Pass
<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3</b>				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.32	>500	Pass
159	5795	36.35		Pass
<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1</b>				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.62	>500	Pass
157	5785	17.59		Pass
165	5825	17.61		Pass
<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3</b>				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	17.62	>500	Pass
157	5785	17.61		Pass
165	5825	17.59		Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.11	>500	Pass
159	5795	36.38		Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	36.35	>500	Pass
159	5795	36.37		Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	75.76	>500	Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	75.53	>500	Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	18.75	>500	Pass
157	5785	18.51		Pass
165	5825	18.78		Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	18.80	>500	Pass
157	5785	18.80		Pass
165	5825	18.77		Pass

**Mode18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	37.29	>500	Pass
159	5795	37.38		Pass

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	37.30	>500	Pass
159	5795	36.77		Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	75.69	>500	Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	76.40	>500	Pass

The worst case of 6dB Bandwidth as below:

**Mode 1: CH157 (5785MHz) Ant 0+1+2+3**

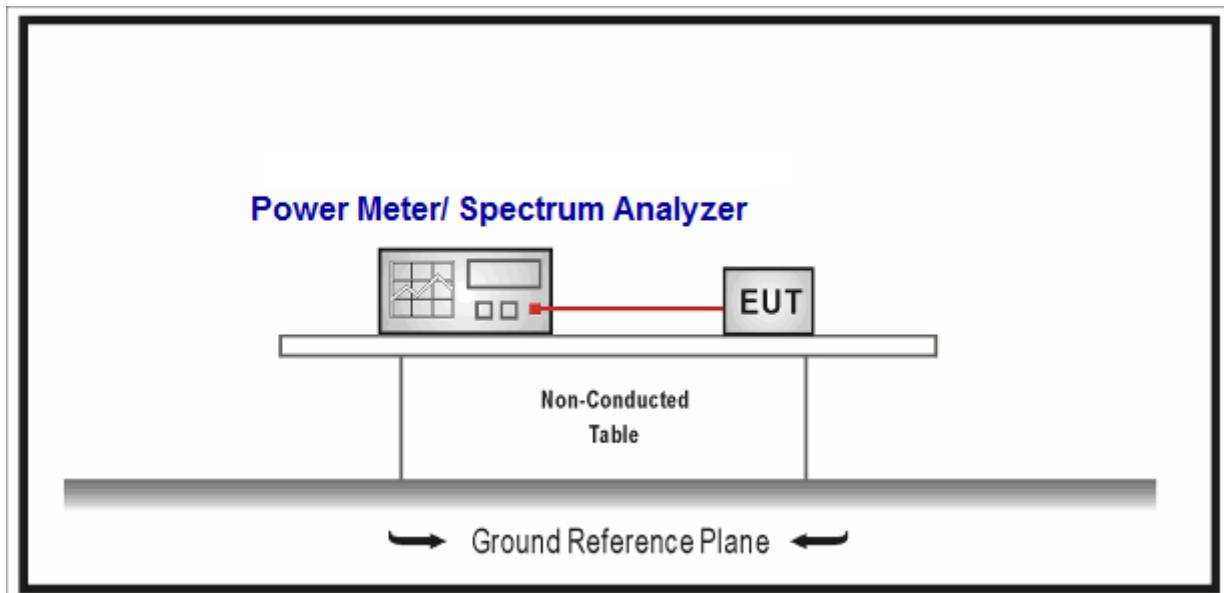
## 7. Power Output

### 7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2018.01.04	2019.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2017.10.14	2018.10.13
Power Sensor	Anritsu	MA2411B	0846014	2017.10.14	2018.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup



### 7.3. Limit

Fundamental emission output power Limit	
<input checked="" type="checkbox"/>	For the band 5.15-5.25 GHz
<input type="checkbox"/>	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$ and 125mW at any angle above 30 degrees
<input checked="" type="checkbox"/>	Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 23)$
<input type="checkbox"/>	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 24 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the band 5.25-5.35 GHz:
<input checked="" type="checkbox"/>	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz:
<input checked="" type="checkbox"/>	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the band 5.725-5.85 GHz:
<input checked="" type="checkbox"/>	Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6\text{ dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Point-to-point systems (P2P): the maximum conducted output power ( $P_{out}$ ) shall not exceed the lesser of 1 W
Note 1 : $G_{Tx}$ directional gain of transmitting antennas.	
Note 2 : $P_{out}$ is maximum peak conducted output power .	

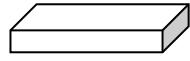
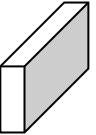
## 7.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	12.3	Maximum conducted output power
	<input checked="" type="checkbox"/> ANSI C63.10	12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
	<input checked="" type="checkbox"/> ANSI C63.10	12.3.2.2	Method SA-1
	<input type="checkbox"/> ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
	<input checked="" type="checkbox"/> ANSI C63.10	12.3.2.4	Method SA-2
	<input type="checkbox"/> ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
	<input type="checkbox"/> ANSI C63.10	12.3.2.6	Method SA-3
	<input type="checkbox"/> ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	<input checked="" type="checkbox"/> ANSI C63.10	12.3.3	Maximum conducted output power using a power meter
	<input type="checkbox"/> ANSI C63.10	12.3.3.1	Method PM
	<input checked="" type="checkbox"/> ANSI C63.10	12.3.3.2	Method PM-G

### Directional Gain Calculations for In-Band test method

	References Rule	Chapter	Description
<input type="checkbox"/>	KDB 662911	F2)a)	Basic methodology
<input type="checkbox"/>	<input type="checkbox"/> KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/> KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911	F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911	F2)c)	Cross-polarized antennas
<input type="checkbox"/>	<input type="checkbox"/> ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/> ANSI C63.10	F2)c) (ii)	Multiple antennas
<input type="checkbox"/>	KDB 662911	F2)e)	Spatial stream
<input type="checkbox"/>	<input type="checkbox"/> KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/> KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/> KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911	F2)f)	Cyclic Delay Diversity (CDD)
<input checked="" type="checkbox"/>	<input type="checkbox"/> KDB 662911	F2)f) (i)	Antennas have the same gain
	<input checked="" type="checkbox"/> KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input checked="" type="checkbox"/> KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

### 7.5. EUT test Axis definition

Item	Power Output			
Device Category	<input checked="" type="checkbox"/>	Indoor use		
	<input type="checkbox"/>	Outdoor use		
	<input type="checkbox"/>	Fix position use		
	<input type="checkbox"/>	Client use		
Test mode	Mode 1-20			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 7.6. Test Result

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~20	Test Site	:	TR8
Test Date	:	2018.05.24	Test Engineer	:	Tommie

<b>Mode 1: Transmit by 802.11a with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.79	18.58	21.70	30.00	Pass
CH44	5200	18.74	18.62	21.69	30.00	Pass
CH48	5240	18.96	18.77	21.88	30.00	Pass
CH52	5260	18.46	18.31	21.40	24.00	Pass
CH60	5300	18.86	18.54	21.71	24.00	Pass
CH64	5320	18.57	18.42	21.51	24.00	Pass
CH100	5500	18.84	18.73	21.80	24.00	Pass
CH116	5580	18.79	18.67	21.74	24.00	Pass
CH140	5700	18.77	18.68	21.74	24.00	Pass
CH144	5720	18.65	18.61	21.64	24.00	Pass
CH149	5745	21.24	21.08	24.17	30.00	Pass
CH157	5785	21.17	21.12	24.16	30.00	Pass
CH165	5825	21.11	21.04	24.09	30.00	Pass

<b>Mode 1: Transmit by 802.11a with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	18.46	18.31	4.96	26.36	30.00	Pass
60	5300	18.86	18.54	4.96	26.67	30.00	Pass
64	5320	18.57	18.42	4.96	26.47	30.00	Pass
100	5500	18.84	18.73	4.96	26.76	30.00	Pass
116	5580	18.79	18.67	4.96	26.70	30.00	Pass
140	5700	18.77	18.68	4.96	26.70	30.00	Pass
144	5720	18.65	18.61	4.96	26.60	30.00	Pass

<b>Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.71	15.15	15.92	15.51	21.60	30.00	Pass
CH44	5220	15.46	15.23	15.63	15.58	21.50	30.00	Pass
CH48	5240	15.37	15.46	15.52	15.68	21.53	30.00	Pass
CH52	5260	13.15	13.24	14.86	14.09	19.91	24.00	Pass
CH60	5300	12.84	12.93	14.54	14.06	19.67	24.00	Pass
CH64	5320	12.83	13.07	14.52	14.15	19.72	24.00	Pass
CH100	5500	13.45	13.48	15.01	14.54	20.19	24.00	Pass
CH116	5580	13.05	12.79	15.12	14.11	19.89	24.00	Pass
CH140	5700	12.39	12.67	14.57	14.32	19.61	24.00	Pass
CH144	5720	12.65	12.64	15.02	14.53	19.86	24.00	Pass
CH149	5745	19.12	18.91	19.12	19.18	25.10	30.00	Pass
CH157	5785	19.01	18.86	19.15	18.69	24.95	30.00	Pass
CH165	5825	18.59	19.21	19.38	18.76	25.02	30.00	Pass

<b>Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	13.15	13.24	14.86	14.09	5.01	24.92	30.00	Pass
60	5300	12.84	12.93	14.54	14.06	5.01	24.68	30.00	Pass
64	5320	12.83	13.07	14.52	14.15	5.01	24.73	30.00	Pass
100	5500	13.45	13.48	15.01	14.54	5.01	25.20	30.00	Pass
116	5580	13.05	12.79	15.12	14.11	5.01	24.90	30.00	Pass
140	5700	12.39	12.67	14.57	14.32	5.01	24.62	30.00	Pass
144	5720	12.65	12.64	15.02	14.53	5.01	24.87	30.00	Pass

<b>Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.67	18.53	21.61	30.00	Pass
CH44	5200	18.81	18.69	21.76	30.00	Pass
CH48	5240	18.99	18.78	21.90	30.00	Pass
CH52	5260	18.67	18.52	21.61	24.00	Pass
CH60	5300	18.61	18.47	21.55	24.00	Pass
CH64	5320	18.68	18.55	21.63	24.00	Pass
CH100	5500	18.91	18.78	21.86	24.00	Pass
CH116	5580	18.68	18.54	21.62	24.00	Pass
CH140	5700	18.84	18.77	21.82	24.00	Pass
CH144	5720	18.68	18.59	21.65	24.00	Pass
CH149	5745	21.14	20.97	24.07	30.00	Pass
CH157	5785	20.95	20.83	23.90	30.00	Pass
CH165	5825	20.89	20.75	23.83	30.00	Pass

<b>Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	18.67	18.52	4.96	26.57	30.00	Pass
60	5300	18.61	18.47	4.96	26.51	30.00	Pass
64	5320	18.68	18.55	4.96	26.59	30.00	Pass
100	5500	18.91	18.78	4.96	26.82	30.00	Pass
116	5580	18.68	18.54	4.96	26.58	30.00	Pass
140	5700	18.84	18.77	4.96	26.78	30.00	Pass
144	5720	18.68	18.59	4.96	26.61	30.00	Pass

<b>Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.43	14.47	15.44	15.17	21.17	30.00	Pass
CH44	5200	15.59	14.48	15.63	15.34	21.30	30.00	Pass
CH48	5240	15.57	14.97	15.58	15.36	21.40	30.00	Pass
CH52	5260	13.24	13.34	15.33	14.43	20.19	24.00	Pass
CH60	5300	12.87	13.27	15.11	14.46	20.04	24.00	Pass
CH64	5320	12.91	13.15	15.07	14.44	20.01	24.00	Pass
CH100	5500	13.52	13.73	15.04	14.76	20.33	24.00	Pass
CH116	5580	12.69	13.08	15.09	14.24	19.90	24.00	Pass
CH140	5700	12.41	12.86	14.65	14.42	19.71	24.00	Pass
CH144	5720	12.62	13.01	15.24	14.69	20.05	24.00	Pass
CH149	5745	18.82	18.56	18.65	18.42	24.64	30.00	Pass
CH157	5785	18.65	18.23	18.56	17.87	24.36	30.00	Pass
CH165	5825	18.92	18.67	18.73	17.49	24.51	30.00	Pass

<b>Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	13.24	13.34	15.33	14.43	5.01	25.20	30.00	Pass
60	5300	12.87	13.27	15.11	14.46	5.01	25.05	30.00	Pass
64	5320	12.91	13.15	15.07	14.44	5.01	25.02	30.00	Pass
100	5500	13.52	13.73	15.04	14.76	5.01	25.34	30.00	Pass
116	5580	12.69	13.08	15.09	14.24	5.01	24.91	30.00	Pass
140	5700	12.41	12.86	14.65	14.42	5.01	24.72	30.00	Pass
144	5720	12.62	13.01	15.24	14.69	5.01	25.06	30.00	Pass

<b>Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	17.38	17.19	20.30	30.00	Pass
CH46	5230	17.56	17.43	20.51	30.00	Pass
CH54	5270	16.48	16.25	19.38	24.00	Pass
CH62	5310	16.43	16.28	19.37	24.00	Pass
CH102	5510	18.64	18.36	21.51	24.00	Pass
CH110	5550	18.36	18.22	21.30	24.00	Pass
CH134	5670	19.04	18.85	21.96	24.00	Pass
CH142	5710	18.86	18.75	21.82	24.00	Pass
CH151	5755	20.75	20.63	23.70	30.00	Pass
CH159	5795	20.72	20.59	23.67	30.00	Pass

<b>Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	16.48	16.25	4.96	24.34	30.00	Pass
62	5310	16.43	16.28	4.96	24.33	30.00	Pass
102	5510	18.64	18.36	4.96	26.47	30.00	Pass
110	5550	18.36	18.22	4.96	26.26	30.00	Pass
134	5670	19.04	18.85	4.96	26.92	30.00	Pass
142	5710	18.86	18.75	4.96	26.78	30.00	Pass

<b>Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	13.25	12.37	13.26	12.48	18.88	30.00	Pass
CH46	5230	13.04	12.35	13.14	12.62	18.82	30.00	Pass
CH54	5270	13.27	12.46	12.63	12.92	18.85	24.00	Pass
CH62	5310	12.81	11.62	12.34	12.87	18.46	24.00	Pass
CH102	5510	14.12	13.54	14.13	12.45	19.63	24.00	Pass
CH110	5550	13.79	13.41	13.94	12.59	19.48	24.00	Pass
CH134	5670	14.27	14.04	14.05	14.26	20.18	24.00	Pass
CH142	5710	14.15	13.87	13.96	14.21	20.07	24.00	Pass
CH151	5755	18.73	18.45	19.13	18.82	24.81	30.00	Pass
CH159	5795	19.96	19.42	20.54	19.64	25.93	30.00	Pass

<b>Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	13.27	12.46	12.63	12.92	5.01	23.86	30.00	Pass
62	5310	12.81	11.62	12.34	12.87	5.01	23.47	30.00	Pass
102	5510	14.12	13.54	14.13	12.45	5.01	24.64	30.00	Pass
110	5550	13.79	13.41	13.94	12.59	5.01	24.49	30.00	Pass
134	5670	14.27	14.04	14.05	14.26	5.01	25.19	30.00	Pass
142	5710	14.15	13.87	13.96	14.21	5.01	25.08	30.00	Pass

<b>Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.74	18.58	21.67	30.00	Pass
CH44	5200	18.91	18.68	21.81	30.00	Pass
CH48	5240	18.82	18.65	21.75	30.00	Pass
CH52	5260	18.58	18.42	21.51	24.00	Pass
CH60	5300	18.74	18.62	21.69	24.00	Pass
CH64	5320	18.66	18.49	21.59	24.00	Pass
CH100	5500	18.98	18.77	21.89	24.00	Pass
CH116	5580	18.65	18.53	21.60	24.00	Pass
CH140	5700	18.91	18.76	21.85	24.00	Pass
CH144	5720	18.77	18.73	21.76	24.00	Pass
CH149	5745	21.12	21.04	24.09	30.00	Pass
CH157	5785	21.03	21.85	24.47	30.00	Pass
CH165	5825	21.28	21.13	24.22	30.00	Pass

<b>Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	18.58	18.42	4.96	26.47	30.00	Pass
60	5300	18.74	18.62	4.96	26.65	30.00	Pass
64	5320	18.66	18.49	4.96	26.55	30.00	Pass
100	5500	18.98	18.77	4.96	26.85	30.00	Pass
116	5580	18.65	18.53	4.96	26.56	30.00	Pass
140	5700	18.91	18.76	4.96	26.81	30.00	Pass
144	5720	18.77	18.73	4.96	26.72	30.00	Pass

<b>Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.51	14.75	15.49	15.03	21.23	30.00	Pass
CH44	5200	15.01	14.42	15.35	15.26	21.05	30.00	Pass
CH48	5240	15.08	14.56	15.21	15.13	21.02	30.00	Pass
CH52	5260	12.56	13.12	15.21	14.21	19.92	24.00	Pass
CH60	5300	12.64	13.08	14.58	14.15	19.70	24.00	Pass
CH64	5320	12.67	13.02	14.59	13.96	19.65	24.00	Pass
CH100	5500	13.02	13.31	14.64	14.34	19.90	24.00	Pass
CH116	5580	12.41	12.67	14.68	14.02	19.57	24.00	Pass
CH140	5700	12.13	12.29	14.18	13.96	19.26	24.00	Pass
CH144	5720	12.33	12.41	14.52	14.05	19.46	24.00	Pass
CH149	5745	18.45	18.22	18.46	18.34	24.39	30.00	Pass
CH157	5785	18.76	18.35	18.35	17.42	24.27	30.00	Pass
CH165	5825	19.02	18.23	18.88	17.94	24.56	30.00	Pass

<b>Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	12.56	13.12	15.21	14.21	5.01	24.93	30.00	Pass
60	5300	12.64	13.08	14.58	14.15	5.01	24.71	30.00	Pass
64	5320	12.67	13.02	14.59	13.96	5.01	24.66	30.00	Pass
100	5500	13.02	13.31	14.64	14.34	5.01	24.91	30.00	Pass
116	5580	12.41	12.67	14.68	14.02	5.01	24.58	30.00	Pass
140	5700	12.13	12.29	14.18	13.96	5.01	24.27	30.00	Pass
144	5720	12.33	12.41	14.52	14.05	5.01	24.47	30.00	Pass

<b>Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	17.39	17.18	20.30	30.00	Pass
CH46	5230	17.58	17.34	20.47	30.00	Pass
CH54	5270	16.31	16.19	19.26	24.00	Pass
CH62	5310	16.58	16.32	19.46	24.00	Pass
CH102	5510	18.93	18.78	21.87	24.00	Pass
CH110	5550	18.47	18.24	21.37	24.00	Pass
CH134	5670	19.13	18.84	22.00	24.00	Pass
CH142	5710	18.97	18.76	21.88	24.00	Pass
CH151	5755	21.22	21.05	24.15	30.00	Pass
CH159	5795	21.25	21.07	24.17	30.00	Pass

<b>Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	16.31	16.19	4.96	24.22	30.00	Pass
62	5310	16.58	16.32	4.96	24.42	30.00	Pass
102	5510	18.93	18.78	4.96	26.83	30.00	Pass
110	5550	18.47	18.24	4.96	26.33	30.00	Pass
134	5670	19.13	18.84	4.96	26.96	30.00	Pass
142	5710	18.97	18.76	4.96	26.84	30.00	Pass

<b>Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	13.12	12.37	13.53	12.77	18.99	30.00	Pass
CH46	5230	12.71	12.33	13.08	12.83	18.77	30.00	Pass
CH54	5270	12.92	12.23	12.91	13.52	18.94	24.00	Pass
CH62	5310	13.04	12.11	12.96	13.63	18.99	24.00	Pass
CH102	5510	14.21	13.76	14.55	12.72	19.88	24.00	Pass
CH110	5550	14.27	13.57	14.24	12.67	19.76	24.00	Pass
CH134	5670	14.61	13.68	14.43	14.54	20.35	24.00	Pass
CH142	5710	14.58	13.62	14.19	14.27	20.20	24.00	Pass
CH151	5755	19.46	18.71	19.65	19.29	25.31	30.00	Pass
CH159	5795	20.65	20.27	21.05	20.14	26.56	30.00	Pass

<b>Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	12.92	12.23	12.91	13.52	5.01	23.95	30.00	Pass
62	5310	13.04	12.11	12.96	13.63	5.01	24.00	30.00	Pass
102	5510	14.21	13.76	14.55	12.72	5.01	24.89	30.00	Pass
110	5550	14.27	13.57	14.24	12.67	5.01	24.77	30.00	Pass
134	5670	14.61	13.68	14.43	14.54	5.01	25.36	30.00	Pass
142	5710	14.58	13.62	14.19	14.27	5.01	25.21	30.00	Pass

<b>Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	17.17	17.06	20.13	30.00	Pass
CH58	5290	16.03	15.91	18.98	24.00	Pass
CH106	5530	15.47	15.25	18.37	24.00	Pass
CH138	5690	15.41	15.32	18.38	24.00	Pass
CH155	5775	19.41	19.24	22.34	30.00	Pass

<b>Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
58	5290	16.03	15.91	4.96	23.94	30.00	Pass
106	5530	15.47	15.25	4.96	23.33	30.00	Pass
138	5690	15.41	15.32	4.96	23.34	30.00	Pass

<b>Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH42	5210	12.04	11.72	12.15	11.03	17.78	30.00	Pass
CH58	5290	12.24	11.46	11.82	12.09	17.93	24.00	Pass
CH106	5530	12.77	11.34	12.16	10.57	17.81	24.00	Pass
CH138	5690	12.62	11.57	12.03	12.21	18.14	24.00	Pass
CH155	5775	15.25	14.22	15.43	14.23	20.84	30.00	Pass

<b>Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm )	Result
		Ant0	Ant1	Ant2	Ant3				
58	5290	12.24	11.46	11.82	12.09	5.01	22.94	30.00	Pass
106	5530	12.77	11.34	12.16	10.57	5.01	22.82	30.00	Pass
138	5690	12.62	11.57	12.03	12.21	5.01	23.15	30.00	Pass

<b>Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.52	18.31	21.43	30.00	Pass
CH44	5200	18.63	18.44	21.55	30.00	Pass
CH48	5240	18.78	18.52	21.66	30.00	Pass
CH52	5260	18.49	18.32	21.42	24.00	Pass
CH60	5300	18.15	18.07	21.12	24.00	Pass
CH64	5320	18.54	18.38	21.47	24.00	Pass
CH100	5500	18.67	18.52	21.61	24.00	Pass
CH116	5580	18.71	18.58	21.66	24.00	Pass
CH140	5700	18.83	18.67	21.76	24.00	Pass
CH144	5720	18.76	18.71	21.75	24.00	Pass
CH149	5745	21.38	21.22	24.31	30.00	Pass
CH157	5785	21.25	21.07	24.17	30.00	Pass
CH165	5825	21.17	21.03	24.11	30.00	Pass

<b>Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	18.49	18.32	4.96	26.38	30.00	Pass
60	5300	18.15	18.07	4.96	26.08	30.00	Pass
64	5320	18.54	18.38	4.96	26.43	30.00	Pass
100	5500	18.67	18.52	4.96	26.57	30.00	Pass
116	5580	18.71	18.58	4.96	26.62	30.00	Pass
140	5700	18.83	18.67	4.96	26.72	30.00	Pass
144	5720	18.76	18.71	4.96	26.71	30.00	Pass

<b>Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	14.93	14.52	15.42	14.65	20.91	30.00	Pass
CH44	5200	14.96	14.51	15.23	14.83	20.91	30.00	Pass
CH48	5240	14.39	14.42	15.03	15.44	20.86	30.00	Pass
CH52	5260	13.45	13.71	15.13	14.76	20.34	24.00	Pass
CH60	5300	13.43	13.54	15.61	14.57	20.40	24.00	Pass
CH64	5320	13.35	13.49	15.43	14.72	20.36	24.00	Pass
CH100	5500	13.11	13.31	14.82	14.58	20.04	24.00	Pass
CH116	5580	12.52	12.74	14.88	14.31	19.75	24.00	Pass
CH140	5700	12.35	12.34	14.23	14.14	19.38	24.00	Pass
CH144	5720	12.46	12.53	14.27	14.29	19.50	24.00	Pass
CH149	5745	18.71	18.76	18.78	19.02	24.84	30.00	Pass
CH157	5785	18.04	17.62	18.07	17.53	23.84	30.00	Pass
CH165	5825	17.57	17.31	18.02	17.01	23.51	30.00	Pass

<b>Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	13.45	13.71	15.13	14.76	5.01	25.35	30.00	Pass
60	5300	13.43	13.54	15.61	14.57	5.01	25.41	30.00	Pass
64	5320	13.35	13.49	15.43	14.72	5.01	25.37	30.00	Pass
100	5500	13.11	13.31	14.82	14.58	5.01	25.05	30.00	Pass
116	5580	12.52	12.74	14.88	14.31	5.01	24.76	30.00	Pass
140	5700	12.35	12.34	14.23	14.14	5.01	24.39	30.00	Pass
144	5720	12.46	12.53	14.27	14.29	5.01	24.51	30.00	Pass

<b>Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	17.11	17.02	20.08	30.00	Pass
CH46	5230	17.06	16.84	19.96	30.00	Pass
CH54	5270	15.97	15.83	18.91	24.00	Pass
CH62	5310	16.23	16.06	19.16	24.00	Pass
CH102	5510	18.64	18.51	21.59	24.00	Pass
CH110	5550	18.37	18.18	21.29	24.00	Pass
CH134	5670	18.98	18.73	21.87	24.00	Pass
CH142	5710	18.79	18.72	21.77	24.00	Pass
CH151	5755	20.94	20.67	23.82	30.00	Pass
CH159	5795	20.83	20.62	23.74	30.00	Pass

<b>Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	15.97	15.83	4.96	23.87	30.00	Pass
62	5310	16.23	16.06	4.96	24.12	30.00	Pass
102	5510	18.64	18.51	4.96	26.55	30.00	Pass
110	5550	18.37	18.18	4.96	26.25	30.00	Pass
134	5670	18.98	18.73	4.96	26.83	30.00	Pass
142	5710	18.79	18.72	4.96	26.73	30.00	Pass

<b>Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	12.95	12.28	13.18	12.72	18.82	30.00	Pass
CH46	5230	12.57	12.17	12.86	13.21	18.74	30.00	Pass
CH54	5270	13.01	12.04	12.51	12.88	18.65	24.00	Pass
CH62	5310	12.86	12.18	12.43	12.97	18.64	24.00	Pass
CH102	5510	13.91	13.67	13.26	11.86	19.26	24.00	Pass
CH110	5550	14.23	13.73	13.72	12.35	19.58	24.00	Pass
CH134	5670	14.11	13.79	13.94	13.72	19.91	24.00	Pass
CH142	5710	14.18	13.69	13.82	13.43	19.81	24.00	Pass
CH151	5755	18.56	18.74	19.32	18.74	24.87	30.00	Pass
CH159	5795	19.16	19.25	20.13	18.93	25.41	30.00	Pass

<b>Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	13.01	12.04	12.51	12.88	5.01	23.66	30.00	Pass
62	5310	12.86	12.18	12.43	12.97	5.01	23.65	30.00	Pass
102	5510	13.91	13.67	13.26	11.86	5.01	24.27	30.00	Pass
110	5550	14.23	13.73	13.72	12.35	5.01	24.59	30.00	Pass
134	5670	14.11	13.79	13.94	13.72	5.01	24.92	30.00	Pass
142	5710	14.18	13.69	13.82	13.43	5.01	24.82	30.00	Pass

<b>Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	17.12	17.03	20.09	30.00	Pass
CH58	5290	16.06	15.87	18.98	24.00	Pass
CH106	5530	15.51	15.34	18.44	24.00	Pass
CH138	5690	15.46	15.28	18.38	24.00	Pass
CH155	5775	19.32	19.16	22.25	30.00	Pass

<b>Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
58	5290	16.06	15.87	4.96	23.94	30.00	Pass
106	5530	15.51	15.34	4.96	23.40	30.00	Pass
138	5690	15.46	15.28	4.96	23.34	30.00	Pass

<b>Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH42	5210	11.46	11.78	12.52	11.63	17.89	30.00	Pass
CH58	5290	11.87	11.32	11.52	11.89	17.68	24.00	Pass
CH106	5530	12.74	11.61	12.25	10.45	17.86	24.00	Pass
CH138	5690	12.54	11.27	11.96	11.25	17.81	24.00	Pass
CH155	5775	15.37	14.68	14.43	14.37	20.75	30.00	Pass

<b>Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
58	5290	11.87	11.32	11.52	11.89	5.01	22.69	30.00	Pass
106	5530	12.74	11.61	12.25	10.45	5.01	22.87	30.00	Pass
138	5690	12.54	11.27	11.96	11.25	5.01	22.82	30.00	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH50	5250	15.29	15.21	18.26	24.00	Pass
CH144	5570	15.72	15.66	18.70	24.00	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
50	5250	14.16	14.29	4.96	22.20	23	Pass
114	5570	15.72	15.66	4.96	23.66	30	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH50	5250	12.06	11.72	11.87	11.29	17.76	24.00	Pass
CH144	5570	11.04	10.91	11.54	10.64	17.07	24.00	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
50	5250	12.06	11.72	11.87	11.29	5.01	22.77	23	Pass
114	5570	11.04	10.91	11.54	10.64	5.01	22.08	30	Pass

<b>Mode 11: Transmit by 802.11a with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.19	17.63	20.93	28.03	Pass
CH44	5200	18.18	17.62	20.92	28.03	Pass
CH48	5240	18.25	18.17	21.22	28.03	Pass
CH52	5260	15.98	16.01	19.01	22.03	Pass
CH60	5300	15.82	15.96	18.90	22.03	Pass
CH64	5320	15.56	15.78	18.68	22.03	Pass
CH100	5500	15.63	15.82	18.74	22.03	Pass
CH116	5580	15.75	15.69	18.73	22.03	Pass
CH140	5700	15.66	15.82	18.75	22.03	Pass
CH144	5720	15.72	15.98	18.86	22.03	Pass
CH149	5745	20.35	20.13	23.25	28.03	Pass
CH157	5785	20.18	20.58	23.39	28.03	Pass
CH165	5825	20.27	20.29	23.29	28.03	Pass

<b>Mode 11: Transmit by 802.11a with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	15.98	16.01	7.97	26.98	30.00	Pass
60	5300	15.82	15.96	7.97	26.87	30.00	Pass
64	5320	15.56	15.78	7.97	26.65	30.00	Pass
100	5500	15.63	15.82	7.97	26.71	30.00	Pass
116	5580	15.75	15.69	7.97	26.70	30.00	Pass
140	5700	15.66	15.82	7.97	26.72	30.00	Pass
144	5720	15.72	15.98	7.97	26.83	30.00	Pass

<b>Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.62	15.06	15.71	15.15	21.41	24.97	Pass
CH44	5200	15.14	15.29	15.57	15.38	21.37	24.97	Pass
CH48	5240	15.04	15.49	15.51	15.33	21.37	24.97	Pass
CH52	5260	9.56	9.15	9.84	9.73	15.60	18.97	Pass
CH60	5300	9.84	8.97	10.42	10.25	15.93	18.97	Pass
CH64	5320	9.52	9.64	9.93	9.99	15.79	18.97	Pass
CH100	5500	9.05	9.48	9.82	10.38	15.73	18.97	Pass
CH116	5580	8.93	8.65	9.17	9.96	15.22	18.97	Pass
CH140	5700	9.41	9.36	10.47	9.66	15.77	18.97	Pass
CH144	5720	9.15	9.48	9.57	10.41	15.70	18.97	Pass
CH149	5745	18.98	18.97	18.81	18.91	24.94	24.97	Pass
CH157	5785	18.81	19.01	18.84	18.82	24.89	24.97	Pass
CH165	5825	18.85	18.83	18.61	18.79	24.79	24.97	Pass

<b>Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	9.56	9.15	9.84	9.73	11.03	26.63	30.00	Pass
60	5300	9.84	8.97	10.42	10.25	11.03	26.96	30.00	Pass
64	5320	9.52	9.64	9.93	9.99	11.03	26.82	30.00	Pass
100	5500	9.05	9.48	9.82	10.38	11.03	26.76	30.00	Pass
116	5580	8.93	8.65	9.17	9.96	11.03	26.25	30.00	Pass
140	5700	9.41	9.36	10.47	9.66	11.03	26.80	30.00	Pass
144	5720	9.15	9.48	9.57	10.41	11.03	26.73	30.00	Pass

<b>Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.13	17.69	20.93	28.03	Pass
CH44	5220	18.3	17.96	21.14	28.03	Pass
CH48	5240	18.25	17.95	21.11	28.03	Pass
CH52	5260	15.50	15.20	18.36	22.03	Pass
CH60	5300	15.75	15.53	18.65	22.03	Pass
CH64	5320	15.10	15.48	18.30	22.03	Pass
CH100	5500	15.36	15.66	18.52	22.03	Pass
CH116	5580	15.27	15.46	18.37	22.03	Pass
CH140	5700	15.79	15.91	18.86	22.03	Pass
CH144	5720	15.71	14.97	18.36	22.03	Pass
CH149	5745	20.22	20.39	23.32	28.03	Pass
CH157	5785	20.36	20.08	23.23	28.03	Pass
CH165	5825	20.29	20.2	23.26	28.03	Pass

<b>Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	15.50	15.20	7.97	26.33	29.29	Pass
60	5300	15.75	15.53	7.97	26.62	29.29	Pass
64	5320	15.10	15.48	7.97	26.27	29.29	Pass
100	5500	15.36	15.66	7.97	26.49	29.29	Pass
116	5580	15.27	15.46	7.97	26.34	29.29	Pass
140	5700	15.79	15.91	7.97	26.83	29.29	Pass
144	5720	15.71	14.97	7.97	26.33	29.29	Pass

<b>Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.23	14.19	15.48	15.23	21.08	24.97	Pass
CH44	5200	15.17	14.37	15.52	15.37	21.15	24.97	Pass
CH48	5240	15.28	14.52	15.71	15.41	21.27	24.97	Pass
CH52	5260	9.59	9.94	9.68	9.81	15.78	18.97	Pass
CH60	5300	8.94	9.69	9.93	9.49	15.55	18.97	Pass
CH64	5320	9.22	9.78	9.80	9.92	15.71	18.97	Pass
CH100	5500	9.52	9.53	9.32	9.98	15.62	18.97	Pass
CH116	5580	9.41	9.51	9.25	10.16	15.62	18.97	Pass
CH140	5700	9.08	8.76	9.95	9.43	15.35	18.97	Pass
CH144	5720	9.30	9.24	9.19	9.12	15.23	18.97	Pass
CH149	5745	18.57	18.34	18.71	18.62	24.58	24.97	Pass
CH157	5785	18.33	18.29	18.62	17.94	24.32	24.97	Pass
CH165	5825	18.41	18.61	18.77	17.82	24.44	24.97	Pass

<b>Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	9.59	9.94	9.68	9.81	11.03	26.81	29.29	Pass
60	5300	8.94	9.69	9.93	9.49	11.03	26.58	29.29	Pass
64	5320	9.22	9.78	9.80	9.92	11.03	26.74	29.29	Pass
100	5500	9.52	9.53	9.32	9.98	11.03	26.65	29.29	Pass
116	5580	9.41	9.51	9.25	10.16	11.03	26.65	29.29	Pass
140	5700	9.08	8.76	9.95	9.43	11.03	26.38	29.29	Pass
144	5720	9.30	9.24	9.19	9.12	11.03	26.26	29.29	Pass

<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	16.56	16.49	19.54	28.03	Pass
CH46	5230	16.66	16.53	19.61	28.03	Pass
CH54	5270	15.42	15.86	18.66	22.03	Pass
CH62	5310	15.54	15.45	18.50	22.03	Pass
CH102	5510	14.92	15.44	18.20	22.03	Pass
CH110	5550	15.42	15.48	18.46	22.03	Pass
CH134	5670	15.38	14.82	18.12	22.03	Pass
CH142	5710	15.81	15.92	18.88	22.03	Pass
CH151	5755	20.18	19.63	22.92	28.03	Pass
CH159	5795	19.87	19.67	22.78	28.03	Pass

<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	15.42	15.86	7.97	26.63	30	Pass
62	5310	15.54	15.45	7.97	26.47	30	Pass
102	5510	14.92	15.44	7.97	26.17	30	Pass
110	5550	15.42	15.48	7.97	26.43	30	Pass
134	5670	15.38	14.82	7.97	26.09	30	Pass
142	5710	15.81	15.92	7.97	26.85	30	Pass

<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	13.07	12.12	13.04	12.19	18.65	24.97	Pass
CH46	5230	12.86	12.19	12.96	12.43	18.64	24.97	Pass
CH54	5270	9.90	9.59	10.20	9.95	15.94	18.97	Pass
CH62	5310	9.56	9.76	9.96	9.48	15.72	18.97	Pass
CH102	5510	9.03	9.14	9.24	8.97	15.12	18.97	Pass
CH110	5550	9.80	9.40	9.44	10.13	15.72	18.97	Pass
CH134	5670	8.86	9.28	9.36	9.44	15.26	18.97	Pass
CH142	5710	8.83	8.86	9.64	8.82	15.07	18.97	Pass
CH151	5755	18.83	18.34	18.81	18.91	24.75	24.97	Pass
CH159	5795	18.78	18.54	19.13	19.04	24.90	24.97	Pass

<b>Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	9.90	9.59	10.20	9.95	11.03	26.97	30	Pass
62	5310	9.56	9.76	9.96	9.48	11.03	26.75	30	Pass
102	5510	9.03	9.14	9.24	8.97	11.03	26.15	30	Pass
110	5550	9.80	9.40	9.44	10.13	11.03	26.75	30	Pass
134	5670	8.86	9.28	9.36	9.44	11.03	26.29	30	Pass
142	5710	8.83	8.86	9.64	8.82	11.03	26.10	30	Pass

<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	17.93	17.69	20.82	28.03	Pass
CH44	5200	18.31	17.93	21.13	28.03	Pass
CH48	5240	18.21	18.12	21.18	28.03	Pass
CH52	5260	15.13	14.98	18.06	22.03	Pass
CH60	5300	15.21	15.51	18.37	22.03	Pass
CH64	5320	15.22	14.93	18.09	22.03	Pass
CH100	5500	15.41	15.25	18.34	22.03	Pass
CH116	5580	15.84	15.28	18.58	22.03	Pass
CH140	5700	15.41	16.13	18.80	22.03	Pass
CH144	5720	15.47	15.45	18.47	22.03	Pass
CH149	5745	20.19	20.51	23.36	28.03	Pass
CH157	5785	20.35	20.91	23.65	28.03	Pass
CH165	5825	20.75	20.35	23.56	28.03	Pass

<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	15.13	14.98	7.97	26.03	29.29	Pass
60	5300	15.21	15.51	7.97	26.34	29.29	Pass
64	5320	15.22	14.93	7.97	26.06	29.29	Pass
100	5500	15.41	15.25	7.97	26.31	29.29	Pass
116	5580	15.84	15.28	7.97	26.55	29.29	Pass
140	5700	15.41	16.13	7.97	26.77	29.29	Pass
144	5720	15.47	15.45	7.97	26.44	29.29	Pass

<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	15.49	14.67	15.72	15.09	21.28	24.97	Pass
CH44	5200	14.89	14.33	15.29	15.14	20.95	24.97	Pass
CH48	5240	15.04	14.66	15.17	15.29	21.07	24.97	Pass
CH52	5260	9.81	9.14	9.76	10.15	15.75	18.97	Pass
CH60	5300	9.78	9.41	9.34	9.22	15.46	18.97	Pass
CH64	5320	9.06	9.07	9.88	10.15	15.59	18.97	Pass
CH100	5500	9.89	8.42	9.41	10.10	15.52	18.97	Pass
CH116	5580	9.37	1.50	10.99	10.10	15.17	18.97	Pass
CH140	5700	9.35	9.58	9.62	10.17	15.71	18.97	Pass
CH144	5720	9.57	9.23	9.82	10.55	15.84	18.97	Pass
CH149	5745	18.29	18.18	18.21	18.31	24.27	24.97	Pass
CH157	5785	18.53	18.29	18.14	17.38	24.13	24.97	Pass
CH165	5825	18.83	18.01	18.77	18.02	24.45	24.97	Pass

<b>Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
52	5260	9.81	9.14	9.76	10.15	11.03	26.78	29.29	Pass
60	5300	9.78	9.41	9.34	9.22	11.03	26.49	29.29	Pass
64	5320	9.06	9.07	9.88	10.15	11.03	26.62	29.29	Pass
100	5500	9.89	8.42	9.41	10.10	11.03	26.55	29.29	Pass
116	5580	9.37	1.50	10.99	10.10	11.03	26.20	29.29	Pass
140	5700	9.35	9.58	9.62	10.17	11.03	26.74	29.29	Pass
144	5720	9.57	9.23	9.82	10.55	11.03	26.87	29.29	Pass

<b>Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	16.61	16.21	19.42	28.03	Pass
CH46	5230	16.84	16.81	19.84	28.03	Pass
CH54	5270	15.33	15.32	18.34	22.03	Pass
CH62	5310	15.94	15.57	18.77	22.03	Pass
CH102	5510	15.63	15.56	18.61	22.03	Pass
CH110	5550	15.59	15.12	18.37	22.03	Pass
CH134	5670	15.68	15.91	18.80	22.03	Pass
CH142	5710	15.96	15.04	18.54	22.03	Pass
CH151	5755	20.33	20.2	23.28	28.03	Pass
CH159	5795	20.68	20.08	23.40	28.03	Pass

<b>Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	15.33	15.32	7.97	26.31	30	Pass
62	5310	15.94	15.57	7.97	26.74	30	Pass
102	5510	15.63	15.56	7.97	26.58	30	Pass
110	5550	15.59	15.12	7.97	26.34	30	Pass
134	5670	15.68	15.91	7.97	26.77	30	Pass
142	5710	15.96	15.04	7.97	26.51	30	Pass

<b>Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	13.24	12.52	13.61	12.71	19.06	24.97	Pass
CH46	5230	12.82	12.44	13.19	12.91	18.87	24.97	Pass
CH54	5270	9.85	9.29	9.71	9.72	15.67	18.97	Pass
CH62	5310	9.58	9.76	9.68	10.59	15.94	18.97	Pass
CH102	5510	9.73	9.10	9.93	10.59	15.89	18.97	Pass
CH110	5550	9.58	9.53	10.06	9.46	15.68	18.97	Pass
CH134	5670	9.80	9.66	9.85	9.89	15.82	18.97	Pass
CH142	5710	9.81	9.74	9.78	9.91	15.83	18.97	Pass
CH151	5755	18.77	18.54	19.25	18.81	24.87	24.97	Pass
CH159	5795	18.78	17.58	19.35	18.75	24.68	24.97	Pass

<b>Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	9.85	9.29	9.71	9.72	11.03	26.70	30	Pass
62	5310	9.58	9.76	9.68	10.59	11.03	26.97	30	Pass
102	5510	9.73	9.10	9.93	10.59	11.03	26.92	30	Pass
110	5550	9.58	9.53	10.06	9.46	11.03	26.71	30	Pass
134	5670	9.80	9.66	9.85	9.89	11.03	26.85	30	Pass
142	5710	9.81	9.74	9.78	9.91	11.03	26.86	30	Pass

<b>Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	16.27	16.07	19.18	28.03	Pass
CH58	5290	15.42	14.93	18.19	22.03	Pass
CH106	5530	14.49	14.50	17.51	22.03	Pass
CH138	5690	14.41	15.33	17.90	22.03	Pass
CH155	5775	18.88	18.3	21.61	28.03	Pass

<b>Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
58	5290	15.42	14.93	7.97	26.16	30	Pass
106	5530	14.49	14.50	7.97	25.48	30	Pass
138	5690	14.41	15.33	7.97	25.87	30	Pass

<b>Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH42	5210	11.98	11.63	12.01	11.65	17.84	24.97	Pass
CH58	5290	9.30	9.37	9.13	9.69	15.40	18.97	Pass
CH106	5530	10.23	8.89	9.85	8.64	15.47	18.97	Pass
CH138	5690	10.24	9.70	10.12	9.36	15.89	18.97	Pass
CH155	5775	15.49	14.55	15.81	14.16	21.07	24.97	Pass

<b>Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
58	5290	9.30	9.37	9.13	9.69	11.03	26.43	30	Pass
106	5530	10.23	8.89	9.85	8.64	11.03	26.50	30	Pass
138	5690	10.24	9.70	10.12	9.36	11.03	26.92	30	Pass

<b>Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	17.68	17.36	20.53	28.03	Pass
CH44	5200	18.04	17.44	20.76	28.03	Pass
CH48	5240	17.86	17.83	20.86	28.03	Pass
CH52	5260	15.00	15.38	18.20	22.03	Pass
CH60	5300	14.80	15.10	17.96	22.03	Pass
CH64	5320	15.69	15.65	18.68	22.03	Pass
CH100	5500	15.76	15.81	18.79	22.03	Pass
CH116	5580	15.74	14.79	18.30	22.03	Pass
CH140	5700	15.39	15.21	18.31	22.03	Pass
CH144	5720	15.04	15.81	18.46	22.03	Pass
CH149	5745	20.49	20.37	23.44	28.03	Pass
CH157	5785	20.34	20.1	23.23	28.03	Pass
CH165	5825	20.25	20.2	23.24	28.03	Pass

<b>Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
52	5260	15.00	15.38	7.97	26.17	29.29	Pass
60	5300	14.80	15.10	7.97	25.93	29.29	Pass
64	5320	15.69	15.65	7.97	26.65	29.29	Pass
100	5500	15.76	15.81	7.97	26.76	29.29	Pass
116	5580	15.74	14.79	7.97	26.27	29.29	Pass
140	5700	15.39	15.21	7.97	26.28	29.29	Pass
144	5720	15.04	15.81	7.97	26.43	29.29	Pass

<b>Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH36	5180	14.51	14.77	15.36	14.53	20.83	24.97	Pass
CH44	5200	14.82	14.46	15.19	14.96	20.89	24.97	Pass
CH48	5240	14.18	14.43	15.27	15.37	20.86	24.97	Pass
CH52	5260	9.61	8.99	9.51	9.58	15.45	18.97	Pass
CH60	5300	9.25	9.16	10.02	10.26	15.72	18.97	Pass
CH64	5320	9.60	9.27	9.50	10.49	15.76	18.97	Pass
CH100	5500	9.03	8.03	9.70	10.48	15.42	18.97	Pass
CH116	5580	8.95	8.90	9.94	9.72	15.42	18.97	Pass
CH140	5700	9.21	9.67	9.80	10.22	15.76	18.97	Pass
CH144	5720	9.57	9.50	9.62	9.45	15.56	18.97	Pass
CH149	5745	18.53	18.51	18.82	18.79	24.69	24.97	Pass
CH157	5785	18.12	17.53	18.41	17.83	24.01	24.97	Pass
CH165	5825	17.33	17.39	18.17	17.67	23.67	24.97	Pass

<b>Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)
		Ant0	Ant1	Ant2	Ant3			
52	5260	9.61	8.99	9.51	9.58	11.03	26.48	29.29
60	5300	9.25	9.16	10.02	10.26	11.03	26.75	29.29
64	5320	9.60	9.27	9.50	10.49	11.03	26.79	29.29
100	5500	9.03	8.03	9.70	10.48	11.03	26.45	29.29
116	5580	8.95	8.90	9.94	9.72	11.03	26.45	29.29
140	5700	9.21	9.67	9.80	10.22	11.03	26.79	29.29
144	5720	9.57	9.50	9.62	9.45	11.03	26.59	29.29

<b>Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH38	5190	16.44	16.2	19.33	28.03	Pass
CH46	5230	16.09	16.17	19.14	28.03	Pass
CH54	5270	15.06	15.25	18.17	22.03	Pass
CH62	5310	15.65	15.35	18.51	22.03	Pass
CH102	5510	15.82	15.14	18.50	22.03	Pass
CH110	5550	14.80	15.02	17.92	22.03	Pass
CH134	5670	16.01	15.64	18.84	22.03	Pass
CH142	5710	15.88	15.91	18.91	22.03	Pass
CH151	5755	20.39	19.71	23.07	28.03	Pass
CH159	5795	20.24	19.79	23.03	28.03	Pass

<b>Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
54	5270	15.06	15.25	7.97	26.14	30	Pass
62	5310	15.65	15.35	7.97	26.48	30	Pass
102	5510	15.82	15.14	7.97	26.47	30	Pass
110	5550	14.80	15.02	7.97	25.89	30	Pass
134	5670	16.01	15.64	7.97	26.81	30	Pass
142	5710	15.88	15.91	7.97	26.88	30	Pass

<b>Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH38	5190	12.82	12.13	13.04	12.81	18.73	24.97	Pass
CH46	5230	12.37	12.19	12.73	13.29	18.69	24.97	Pass
CH54	5270	9.37	9.10	8.50	8.98	15.02	18.97	Pass
CH62	5310	9.70	9.06	9.28	9.05	15.30	18.97	Pass
CH102	5510	9.17	8.58	9.36	9.56	15.20	18.97	Pass
CH110	5550	9.42	8.42	9.11	9.73	15.22	18.97	Pass
CH134	5670	9.59	9.22	9.86	9.00	15.45	18.97	Pass
CH142	5710	9.23	9.69	8.93	9.01	15.24	18.97	Pass
CH151	5755	18.54	18.24	18.87	18.46	24.55	24.97	Pass
CH159	5795	18.55	18.28	18.59	18.54	24.51	24.97	Pass

<b>Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
54	5270	9.37	9.10	8.50	8.98	11.03	26.05	30	Pass
62	5310	9.70	9.06	9.28	9.05	11.03	26.33	30	Pass
102	5510	9.17	8.58	9.36	9.56	11.03	26.23	30	Pass
110	5550	9.42	8.42	9.11	9.73	11.03	26.25	30	Pass
134	5670	9.59	9.22	9.86	9.00	11.03	26.48	30	Pass
142	5710	9.23	9.69	8.93	9.01	11.03	26.27	30	Pass

<b>Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1</b>						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	16.2	16.33	19.28	28.03	Pass
CH58	5290	15.18	15.25	18.23	22.03	Pass
CH106	5530	14.54	14.64	17.60	22.03	Pass
CH138	5690	14.39	14.58	17.50	22.03	Pass
CH155	5775	18.51	18.33	21.43	28.03	Pass

<b>Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1</b>							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
58	5290	15.18	15.25	7.97	26.20	30	Pass
106	5530	14.54	14.64	7.97	25.57	30	Pass
138	5690	14.39	14.58	7.97	25.47	30	Pass

<b>Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3</b>								
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH42	5210	11.29	11.17	12.36	11.46	17.62	24.97	Pass
CH58	5290	9.58	9.44	9.36	9.19	15.41	18.97	Pass
CH106	5530	9.69	8.75	9.41	9.73	15.43	18.97	Pass
CH138	5690	10.14	8.98	10.21	9.74	15.81	18.97	Pass
CH155	5775	15.13	14.43	14.82	14.55	20.76	24.97	Pass

<b>Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3</b>									
Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
58	5290	9.58	9.44	9.36	9.19	11.03	26.44	30	Pass
106	5530	9.69	8.75	9.41	9.73	11.03	26.46	30	Pass
138	5690	10.14	8.98	10.21	9.74	11.03	26.84	30	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH50	5250	11.56	11.18	14.38	22.03	Pass
CH144	5570	14.89	15.01	17.96	22.03	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1				
50	5250	11.56	11.18	7.97	22.35	23	Pass
114	5570	14.89	15.01	7.97	25.93	30	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power(dBm)				Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3			
CH50	5250	5.16	5.28	5.38	5.56	11.37	18.97	Pass
CH144	5570	8.88	9.34	9.29	9.11	15.18	18.97	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power(dBm)				Antenna Gain (dBi)	Total EIRP Power (dBm)	EIRP Limit (dBm)	Result
		Ant0	Ant1	Ant2	Ant3				
50	5250	5.16	5.28	5.38	5.56	11.03	22.40	23	Pass
114	5570	8.88	9.34	9.29	9.11	11.03	26.21	30	Pass

Note: 1: Measurement Power of 802.11ac/ax(80/160MHz)=Reading value+duty cycle factor

2:The lowest 26dB bandwidth was used for calculate the power limit according to the formula( $11+10*\log B$ ). The level is 24.1dBm which is higher than 24dBm, so 24dbm was used for power limit.

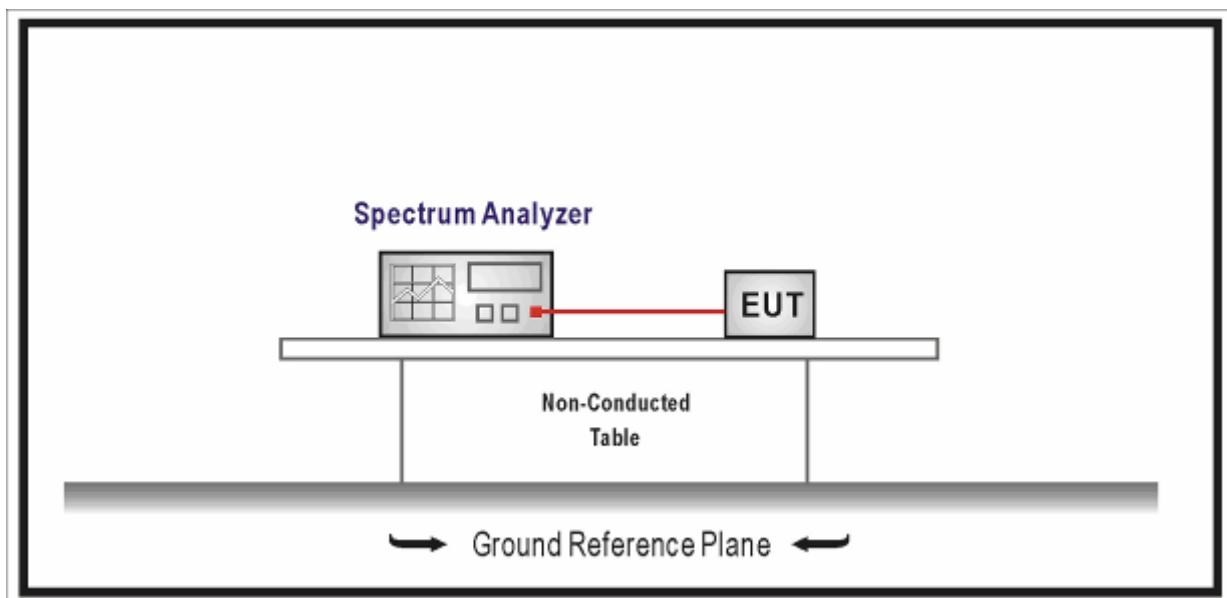
## 8. Peak Power Spectral Density

### 8.1. Test Equipment

Peak Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



### 8.3. Limit

Fundamental emission output power Limit	
<input checked="" type="checkbox"/>	For the band 5.15-5.25 GHz
<input type="checkbox"/>	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 6)$
<input type="checkbox"/>	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 23)$
<input type="checkbox"/>	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz:
<input checked="" type="checkbox"/>	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz:
<input checked="" type="checkbox"/>	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the band 5.725-5.85 GHz:
<input checked="" type="checkbox"/>	the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$
Note 1: $G_{TX}$ directional gain of transmitting antennas.	
Note 2: $P_{out}$ is maximum peak conducted output power.	

## 8.4. Test Procedure

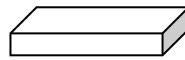
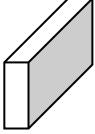
### Fundamental emission output power Test Method

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	12.5	Peak power spectral density
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r04	F	Maximum Power Spectral Density (PSD)

### Directional Gain Calculations for In-Band test method

	References Rule	Chapter	Description
<input type="checkbox"/>	KDB 662911	F2)a)	Basic methodology
<input type="checkbox"/>	KDB 662911	F2)a) (i)	transmit signals are correlated
	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911	F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911	F2)c)	Cross-polarized antennas
<input type="checkbox"/>	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	ANSI C63.10	F2)c) (ii)	Multiple antennas
<input type="checkbox"/>	KDB 662911	F2)e)	Spatial stream
<input type="checkbox"/>	KDB 662911	F2)e) (i)	Antennas have the same gain
	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911	F2)f)	Cyclic Delay Diversity (CDD)
<input type="checkbox"/>	KDB 662911	F2)f) (i)	Antennas have the same gain
	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

## 8.5. EUT test Axis definition

Item	Peak power spectral density		
Device Category	<input checked="" type="checkbox"/> Indoor use		
	<input type="checkbox"/> Outdoor use		
	<input type="checkbox"/> Fix position use		
	<input type="checkbox"/> Client use		
Test mode	Mode 1-20		
Test method	<input type="checkbox"/> Radiated		
		X Axis	Y Axis
			
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/> Conducted		
	<input type="checkbox"/> Chain 1		
			
	<input checked="" type="checkbox"/> Chain 1	Chain 2	
			
	<input type="checkbox"/> Chain 1	Chain 2	Chain 3
			

## 8.6. Test Result

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~20	Test Site	:	TR8
Test Date	:	2018.05.24	Test Engineer	:	Tommy

Mode 1: Transmit by 802.11a with CDD by ant0+1								
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	3.933	5.816	0.24	8.23	7.97	15.03	Pass
CH44	5220	3.747	5.991	0.24	8.26	7.97	15.03	Pass
CH48	5240	3.676	5.652	0.24	8.03	7.97	15.03	Pass
CH52	5260	3.775	5.627	0.24	8.05	7.97	9.03	Pass
CH60	5300	3.062	5.131	0.24	7.47	7.97	9.03	Pass
CH64	5320	3.681	5.861	0.24	8.16	7.97	9.03	Pass
CH100	5500	5.480	5.020	0.24	8.51	7.97	9.03	Pass
CH116	5580	6.029	5.156	0.24	8.86	7.97	9.03	Pass
CH140	5700	4.057	5.037	0.24	7.82	7.97	9.03	Pass
CH144	5720	4.518	4.968	0.24	8.00	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	3.225	4.737	0.24	7.30	7.97	28.03	Pass
CH157	5785	2.881	4.410	0.24	6.96	7.97	28.03	Pass
CH165	5825	2.733	4.044	0.24	6.69	7.97	28.03	Pass

**Mode 1: Transmit by 802.11a with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	0.073	-0.149	0.428	0.953	0.24	6.61	11.03	11.97	Pass
CH44	5220	0.512	0.300	0.116	0.878	0.24	6.72	11.03	11.97	Pass
CH48	5240	-0.270	0.328	0.228	0.424	0.24	6.45	11.03	11.97	Pass
CH52	5260	-0.585	-0.729	-0.229	-0.247	0.24	5.82	11.03	5.97	Pass
CH60	5300	-1.972	-1.529	-0.568	-0.443	0.24	5.18	11.03	5.97	Pass
CH64	5320	-1.709	-1.500	-0.852	0.158	0.24	5.35	11.03	5.97	Pass
CH100	5500	-1.584	-1.261	-0.422	0.910	0.24	5.78	11.03	5.97	Pass
CH116	5580	-1.117	-1.441	0.003	1.036	0.24	5.99	11.03	5.97	Pass
CH140	5700	-1.038	-1.431	-0.188	-0.480	0.24	5.50	11.03	5.97	Pass
CH144	5720	-2.417	-1.964	0.158	0.259	0.24	5.44	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	0.677	0.398	0.965	0.542	0.24	6.91	11.03	24.97	Pass
CH157	5785	-0.358	0.286	0.379	0.747	0.24	6.54	11.03	24.97	Pass
CH165	5825	-0.055	0.095	1.122	0.558	0.24	6.72	11.03	24.97	Pass

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	3.456	5.422	0.26	7.82	7.97	15.03	Pass
CH44	5220	3.979	5.812	0.26	8.26	7.97	15.03	Pass
CH48	5240	4.061	6.113	0.26	8.48	7.97	15.03	Pass
CH52	5260	3.424	5.293	0.26	7.73	7.97	9.03	Pass
CH60	5300	3.030	5.388	0.26	7.64	7.97	9.03	Pass
CH64	5320	2.665	5.394	0.26	7.51	7.97	9.03	Pass
CH100	5500	5.293	4.741	0.26	8.30	7.97	9.03	Pass
CH116	5580	4.946	4.907	0.26	8.20	7.97	9.03	Pass
CH140	5700	3.616	5.312	0.26	7.82	7.97	9.03	Pass
CH144	5720	3.361	4.658	0.26	7.33	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500Hz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	2.437	4.517	0.26	6.87	7.97	28.03	Pass
CH157	5785	2.265	4.401	0.26	6.73	7.97	28.03	Pass
CH165	5825	2.736	4.012	0.26	6.69	7.97	28.03	Pass

**Mode 2: Transmit by 802.11n(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-0.584	-0.569	-0.288	0.003	0.26	5.93	11.03	11.97	Pass
CH44	5220	-0.062	-0.719	-0.099	0.201	0.26	6.12	11.03	11.97	Pass
CH48	5240	0.103	-0.553	-0.249	-0.254	0.26	6.05	11.03	11.97	Pass
CH52	5260	-0.678	-0.872	-0.021	0.000	0.26	5.91	11.03	5.97	Pass
CH60	5300	-1.572	-2.020	-1.000	-0.539	0.26	5.03	11.03	5.97	Pass
CH64	5320	-1.679	-1.664	-0.701	-0.579	0.26	5.16	11.03	5.97	Pass
CH100	5500	-0.729	-1.158	-0.407	0.801	0.26	5.97	11.03	5.97	Pass
CH116	5580	0.020	-0.540	-0.005	0.994	0.26	6.43	11.03	5.97	Pass
CH140	5700	-0.957	-2.404	-0.035	-0.201	0.26	5.48	11.03	5.97	Pass
CH144	5720	-2.509	-1.853	0.513	-0.080	0.26	5.47	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-0.561	-0.025	0.106	0.649	0.26	6.34	11.03	24.97	Pass
CH157	5785	-0.809	-1.110	-0.537	0.113	0.26	5.72	11.03	24.97	Pass
CH165	5825	-0.347	-0.938	-0.013	0.159	0.26	6.02	11.03	24.97	Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	-0.342	1.223	0.43	3.95	7.97	15.03	Pass
CH46	5230	-0.423	1.925	0.43	4.35	7.97	15.03	Pass
CH54	5270	-1.243	0.195	0.43	2.98	7.97	15.03	Pass
CH62	5310	-1.202	-0.178	0.43	2.78	7.97	9.03	Pass
CH102	5510	1.232	0.211	0.43	4.19	7.97	9.03	Pass
CH110	5550	1.363	0.718	0.43	4.49	7.97	9.03	Pass
CH134	5670	0.501	2.362	0.43	4.97	7.97	9.03	Pass
CH142	5710	1.261	1.896	0.43	5.03	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	-0.093	1.557	0.43	4.25	7.97	28.03	Pass
CH159	5795	-0.971	1.246	0.43	3.72	7.97	28.03	Pass

**Mode 3: Transmit by 802.11n(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/ MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-4.823	-5.575	-4.954	-4.472	0.43	1.51	11.03	11.97	Pass
CH46	5230	-4.879	-5.399	-5.131	-4.414	0.43	1.51	11.03	11.97	Pass
CH54	5270	-5.398	-5.671	-4.884	-5.060	0.43	1.21	11.03	11.97	Pass
CH62	5310	-5.573	-6.031	-5.553	-4.812	0.43	0.98	11.03	5.97	Pass
CH102	5510	-4.517	-3.621	-3.288	-2.675	0.43	2.98	11.03	5.97	Pass
CH110	5550	-4.399	-4.146	-3.037	-2.565	0.43	2.98	11.03	5.97	Pass
CH134	5670	-4.116	-3.910	-2.392	-2.998	0.43	3.15	11.03	5.97	Pass
CH142	5710	-5.081	-4.816	-2.650	-2.458	0.43	2.86	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/ 500KH z)	Result
		Ant0	Ant1	Ant2	Ant3					
CH151	5755	-2.316	-2.523	-1.293	-2.085	0.43	4.42	11.03	24.97	Pass
CH159	5795	-1.272	-1.136	-0.511	-0.870	0.43	5.51	11.03	24.97	Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	3.676	5.422	0.10	7.75	7.97	15.03	Pass
CH44	5220	4.264	5.812	0.10	8.22	7.97	15.03	Pass
CH48	5240	3.907	6.113	0.10	8.26	7.97	15.03	Pass
CH52	5260	4.962	5.293	0.10	8.24	7.97	9.03	Pass
CH60	5300	4.841	5.388	0.10	8.23	7.97	9.03	Pass
CH64	5320	5.25	5.394	0.10	8.43	7.97	9.03	Pass
CH100	5500	5.336	4.741	0.10	8.16	7.97	9.03	Pass
CH116	5580	6.007	4.907	0.10	8.60	7.97	9.03	Pass
CH140	5700	6.158	5.312	0.10	8.87	7.97	9.03	Pass
CH144	5720	6.185	5.266	0.10	8.86	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	5.202	4.517	0.10	7.98	7.97	28.03	Pass
CH157	5785	4.904	4.401	0.10	7.77	7.97	28.03	Pass
CH165	5825	4.949	4.012	0.10	7.62	7.97	28.03	Pass

**Mode 4: Transmit by 802.11ac(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-0.198	-0.487	0.052	0.741	0.10	6.17	11.03	11.97	Pass
CH44	5220	-0.124	-1.000	-0.071	0.385	0.10	5.95	11.03	11.97	Pass
CH48	5240	-0.641	-0.818	-0.472	0.073	0.10	5.67	11.03	11.97	Pass
CH52	5260	-0.775	-1.038	-0.080	-0.052	0.10	5.66	11.03	5.97	Pass
CH60	5300	-2.379	-2.077	-0.959	-0.912	0.10	4.59	11.03	5.97	Pass
CH64	5320	-1.883	-1.827	-0.973	-0.575	0.10	4.84	11.03	5.97	Pass
CH100	5500	-1.710	-1.722	-0.884	0.921	0.10	5.41	11.03	5.97	Pass
CH116	5580	-1.573	-1.689	-0.525	0.206	0.10	5.30	11.03	5.97	Pass
CH140	5700	-2.585	-1.818	-0.044	-0.451	0.10	5.01	11.03	5.97	Pass
CH144	5720	-3.034	-2.243	0.019	-0.305	0.10	4.92	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-0.935	-0.482	0.228	-0.256	0.10	5.78	11.03	24.97	Pass
CH157	5785	-1.045	-1.289	-0.273	-0.276	0.10	5.42	11.03	24.97	Pass
CH165	5825	-1.488	-0.645	0.260	-0.113	0.10	5.67	11.03	24.97	Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	0.975	1.223	0.32	4.43	7.97	15.03	Pass
CH46	5230	0.898	1.925	0.32	4.77	7.97	15.03	Pass
CH54	5270	0.538	0.195	0.32	3.70	7.97	15.03	Pass
CH62	5310	0.543	-0.178	0.32	3.53	7.97	9.03	Pass
CH102	5510	0.594	0.211	0.32	3.74	7.97	9.03	Pass
CH110	5550	1.133	0.718	0.32	4.26	7.97	9.03	Pass
CH134	5670	2.533	2.362	0.32	5.78	7.97	9.03	Pass
CH142	5710	2.136	2.262	0.32	5.53	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	1.588	1.557	0.32	4.90	7.97	28.03	Pass
CH159	5795	0.964	1.246	0.32	4.44	7.97	28.03	Pass

**Mode 5: Transmit by 802.11ac(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-4.824	-5.428	-4.167	-3.708	0.32	1.86	11.03	11.97	Pass
CH46	5230	-5.144	-5.635	-4.808	-3.761	0.32	1.56	11.03	11.97	Pass
CH54	5270	-5.161	-5.614	-4.659	-4.631	0.32	1.34	11.03	11.97	Pass
CH62	5310	-5.779	-6.400	-5.207	-4.586	0.32	0.90	11.03	5.97	Pass
CH102	5510	-2.898	-3.689	-2.801	-2.567	0.32	3.37	11.03	5.97	Pass
CH110	5550	-2.883	-3.597	-2.649	-2.268	0.32	3.52	11.03	5.97	Pass
CH134	5670	-4.250	-3.669	-2.575	-2.541	0.32	3.14	11.03	5.97	Pass
CH142	5710	-5.222	-5.189	-3.031	-2.406	0.32	2.56	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH151	5755	-2.667	-2.350	-1.180	-1.868	0.32	4.36	11.03	24.97	Pass
CH159	5795	-2.551	-1.271	-0.021	-0.540	0.32	5.34	11.03	24.97	Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH42	5210	-1.539	-2.234	0.64	1.78	7.97	15.03	Pass
CH58	5290	-2.462	-2.437	0.64	1.20	7.97	15.03	Pass
CH106	5530	-5.230	-5.157	0.64	-1.54	7.97	15.03	Pass
CH138	5690	-5.126	-5.018	0.64	-1.42	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH155	5775	-2.362	-3.295	0.64	0.85	7.97	28.03	Pass

**Mode 6: Transmit by 802.11ac(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH42	5210	-8.017	-8.106	-7.478	-7.815	0.64	-1.19	11.03	11.97	Pass
CH58	5290	-8.723	-9.266	-8.045	-8.279	0.64	-1.89	11.03	11.97	Pass
CH106	5530	-8.157	-8.357	-7.648	-7.016	0.64	-1.10	11.03	11.97	Pass
CH138	5690	-9.861	-9.925	-7.761	-8.298	0.64	-2.20	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH155	5775	-7.216	-7.265	-7.223	-7.591	0.64	-0.66	11.03	24.97	Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MkHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	4.312	6.159	0.10	8.44	7.97	15.03	Pass
CH44	5220	4.930	6.215	0.10	8.73	7.97	15.03	Pass
CH48	5240	5.085	5.676	0.10	8.50	7.97	15.03	Pass
CH52	5260	4.389	5.118	0.10	7.88	7.97	9.03	Pass
CH60	5300	4.056	5.523	0.10	7.96	7.97	9.03	Pass
CH64	5320	3.984	5.832	0.10	8.12	7.97	9.03	Pass
CH100	5500	4.764	5.137	0.10	8.06	7.97	9.03	Pass
CH116	5580	5.740	4.931	0.10	8.46	7.97	9.03	Pass
CH140	5700	6.091	5.145	0.10	8.75	7.97	9.03	Pass
CH144	5720	5.989	5.168	0.10	8.71	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	4.684	5.040	0.10	7.98	7.97	28.03	Pass
CH157	5785	4.807	4.568	0.10	7.80	7.97	28.03	Pass
CH165	5825	4.143	4.243	0.10	7.30	7.97	28.03	Pass

**Mode 7: Transmit by 802.11ax(20MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-0.850	-1.029	-0.215	0.507	0.10	5.77	11.03	11.97	Pass
CH44	5220	-1.291	-1.151	-0.370	0.421	0.10	5.58	11.03	11.97	Pass
CH48	5240	-1.518	-0.947	-0.547	0.095	0.10	5.43	11.03	11.97	Pass
CH52	5260	-2.053	-1.254	-0.180	0.315	0.10	5.42	11.03	5.97	Pass
CH60	5300	-2.505	-2.033	-0.543	-0.046	0.10	4.96	11.03	5.97	Pass
CH64	5320	-2.061	-1.465	-0.806	0.248	0.10	5.19	11.03	5.97	Pass
CH100	5500	-1.881	-1.921	-1.373	0.486	0.10	5.07	11.03	5.97	Pass
CH116	5580	-1.868	-2.215	0.240	0.475	0.10	5.44	11.03	5.97	Pass
CH140	5700	-2.222	-2.170	-0.752	-0.850	0.10	4.68	11.03	5.97	Pass
CH144	5720	-2.692	-3.108	-0.451	-0.765	0.10	4.52	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-1.117	-0.755	0.861	0.166	0.10	5.98	11.03	24.97	Pass
CH157	5785	-1.839	-1.540	-1.199	-0.670	0.10	4.83	11.03	24.97	Pass
CH165	5825	-2.504	-1.460	-1.153	-0.846	0.10	4.67	11.03	24.97	Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MkHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	0.349	2.130	0.45	4.79	7.97	15.03	Pass
CH46	5230	1.003	1.965	0.45	4.97	7.97	15.03	Pass
CH54	5270	0.135	0.452	0.45	3.76	7.97	15.03	Pass
CH62	5310	-0.441	1.100	0.45	3.86	7.97	9.03	Pass
CH102	5510	0.621	1.508	0.45	4.55	7.97	9.03	Pass
CH110	5550	1.527	0.897	0.45	4.68	7.97	9.03	Pass
CH134	5670	2.912	3.332	0.45	6.59	7.97	9.03	Pass
CH142	5710	2.856	3.261	0.45	6.52	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	1.338	2.201	0.45	5.25	7.97	28.03	Pass
CH159	5795	1.195	1.034	0.45	4.58	7.97	28.03	Pass

**Mode 8: Transmit by 802.11ax(40MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-5.236	-5.385	-4.685	-4.305	0.45	1.59	11.03	11.97	Pass
CH46	5230	-5.427	-5.350	-5.075	-4.372	0.45	1.44	11.03	11.97	Pass
CH54	5270	-4.976	-6.189	-5.097	-5.297	0.45	1.11	11.03	11.97	Pass
CH62	5310	-5.777	-6.382	-5.405	-5.435	0.45	0.74	11.03	5.97	Pass
CH102	5510	-4.538	-4.206	-3.542	-3.142	0.45	2.65	11.03	5.97	Pass
CH110	5550	-3.804	-3.641	-3.286	-3.011	0.45	3.05	11.03	5.97	Pass
CH134	5670	-4.324	-3.802	-3.433	-3.017	0.45	2.85	11.03	5.97	Pass
CH142	5710	-5.040	-4.997	-2.622	-2.708	0.45	2.79	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5755	-2.720	-2.427	-1.475	-1.959	0.45	4.35	11.03	24.97	Pass
CH157	5795	-2.731	-2.042	-1.173	-1.857	0.45	4.56	11.03	24.97	Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH42	5210	-2.026	-1.043	0.78	2.28	7.97	15.03	Pass
CH58	5290	-2.898	-2.501	0.78	1.10	7.97	15.03	Pass
CH106	5530	-4.586	-4.227	0.78	-0.61	7.97	15.03	Pass
CH138	5690	-4.265	-4.212	0.78	-0.45	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH155	5775	-6.299	-2.211	0.78	0.00	7.97	28.03	Pass

**Mode 9: Transmit by 802.11ax(80MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH42	5210	-7.983	-8.749	-7.471	-7.782	0.78	-1.17	11.03	11.97	Pass
CH58	5290	-8.734	-9.367	-8.877	-8.575	0.78	-2.08	11.03	11.97	Pass
CH106	5530	-7.816	-7.694	-7.600	-7.622	0.78	-0.88	11.03	11.97	Pass
CH138	5690	-9.440	-10.135	-7.212	-7.744	0.78	-1.67	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH155	5775	-7.206	-8.976	-7.446	-8.153	0.78	-1.09	11.03	24.97	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH50	5250	-5.187	-5.670	0.49	-1.92	7.97	15.03	Pass
CH144	5570	-6.910	-7.318	0.49	-3.61	7.97	15.03	Pass

**Mode 10: Transmit by 802.11ax(160MHz) with CDD by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH50	5250	-10.662	-10.907	-10.037	-10.506	0.49	-4.01	11.03	11.97	Pass
CH144	5570	-10.535	-10.505	-10.567	-10.969	0.49	-4.13	11.03	11.97	Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	6.298	6.304	0.25	9.56	7.97	15.03	Pass
CH44	5220	6.401	6.583	0.25	9.75	7.97	15.03	Pass
CH48	5240	6.086	5.891	0.25	9.25	7.97	15.03	Pass
CH52	5260	5.369	4.382	0.25	8.16	7.97	9.03	Pass
CH60	5300	5.640	5.343	0.25	8.75	7.97	9.03	Pass
CH64	5320	5.812	5.607	0.25	8.97	7.97	9.03	Pass
CH100	5500	4.612	4.317	0.25	7.73	7.97	9.03	Pass
CH116	5580	3.997	4.371	0.25	7.45	7.97	9.03	Pass
CH140	5700	4.991	5.219	0.25	8.37	7.97	9.03	Pass
CH144	5720	4.259	4.877	0.25	7.84	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KH z)	Result
		Ant0	Ant1					
CH149	5745	4.789	5.259	0.25	8.29	7.97	28.03	Pass
CH157	5785	4.274	4.321	0.25	7.56	7.97	28.03	Pass
CH165	5825	4.319	4.517	0.25	7.68	7.97	28.03	Pass

**Mode 11: Transmit by 802.11a with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	0.357	-0.589	0.659	0.628	0.25	6.55	11.03	11.97	Pass
CH44	5220	0.102	-0.289	0.395	0.962	0.25	6.58	11.03	11.97	Pass
CH48	5240	0.447	-0.060	0.218	0.274	0.25	6.48	11.03	11.97	Pass
CH52	5260	-2.515	-2.112	-1.526	-2.054	0.25	4.22	11.03	5.97	Pass
CH60	5300	-3.682	-3.665	-2.446	-2.608	0.25	3.20	11.03	5.97	Pass
CH64	5320	-3.237	-3.403	-2.491	-2.196	0.25	3.46	11.03	5.97	Pass
CH100	5500	-2.657	-3.192	-2.596	-1.098	0.25	3.95	11.03	5.97	Pass
CH116	5580	-3.151	-2.900	-2.845	-1.069	0.25	3.85	11.03	5.97	Pass
CH140	5700	-2.983	-2.763	-1.789	-1.924	0.25	3.93	11.03	5.97	Pass
CH144	5720	-3.260	-3.490	-2.451	-2.666	0.25	3.31	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-0.705	-0.881	0.842	0.515	0.25	6.27	11.03	24.97	Pass
CH157	5785	-0.906	-1.318	0.299	-0.427	0.25	5.71	11.03	24.97	Pass
CH165	5825	-0.959	-2.455	0.088	-0.604	0.25	5.37	11.03	24.97	Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	6.326	5.790	0.23	9.31	7.97	15.03	Pass
CH44	5220	6.193	6.550	0.23	9.62	7.97	15.03	Pass
CH48	5240	6.307	6.353	0.23	9.57	7.97	15.03	Pass
CH52	5260	4.685	4.890	0.23	8.03	7.97	9.03	Pass
CH60	5300	5.541	5.254	0.23	8.64	7.97	9.03	Pass
CH64	5320	5.482	5.014	0.23	8.49	7.97	9.03	Pass
CH100	5500	3.871	3.892	0.23	7.12	7.97	9.03	Pass
CH116	5580	4.502	4.383	0.23	7.68	7.97	9.03	Pass
CH140	5700	4.505	4.636	0.23	7.81	7.97	9.03	Pass
CH144	5720	4.402	5.021	0.23	7.96	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	4.627	4.715	0.23	7.91	7.97	28.03	Pass
CH157	5785	3.543	3.617	0.23	6.82	7.97	28.03	Pass
CH165	5825	3.112	3.786	0.23	6.70	7.97	28.03	Pass

**Mode 12: Transmit by 802.11n(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-1.026	-1.139	-0.594	-0.050	0.23	5.60	11.03	11.97	Pass
CH44	5220	-0.930	-1.665	-0.621	0.121	0.23	5.55	11.03	11.97	Pass
CH48	5240	-1.077	-1.252	-0.517	0.381	0.23	5.71	11.03	11.97	Pass
CH52	5260	-3.057	-3.212	-2.106	-2.557	0.23	3.57	11.03	5.97	Pass
CH60	5300	-3.967	-3.889	-3.249	-2.957	0.23	2.79	11.03	5.97	Pass
CH64	5320	-3.383	-3.835	-3.253	-3.024	0.23	2.92	11.03	5.97	Pass
CH100	5500	-2.760	-2.874	-2.968	-1.603	0.23	3.77	11.03	5.97	Pass
CH116	5580	-2.295	-2.994	-2.556	-1.198	0.23	4.07	11.03	5.97	Pass
CH140	5700	-3.405	-3.308	-2.280	-2.549	0.23	3.42	11.03	5.97	Pass
CH144	5720	-2.856	-3.131	-2.229	-1.886	0.23	3.78	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-1.452	-1.987	0.303	-0.936	0.23	5.35	11.03	24.97	Pass
CH157	5785	-2.483	-3.305	-0.857	-0.750	0.23	4.56	11.03	24.97	Pass
CH165	5825	-2.222	-2.689	-0.517	-1.055	0.23	4.75	11.03	24.97	Pass

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	1.648	1.679	0.46	5.13	7.97	15.03	Pass
CH46	5230	1.787	0.669	0.46	4.73	7.97	15.03	Pass
CH54	5270	0.654	0.833	0.46	4.21	7.97	15.03	Pass
CH62	5310	1.364	0.646	0.46	4.49	7.97	9.03	Pass
CH102	5510	0.846	1.150	0.46	4.47	7.97	9.03	Pass
CH110	5550	0.540	0.937	0.46	4.21	7.97	9.03	Pass
CH134	5670	3.330	2.700	0.46	6.50	7.97	9.03	Pass
CH142	5710	3.234	3.107	0.46	6.64	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	1.254	0.586	0.46	4.40	7.97	28.03	Pass
CH159	5795	0.567	0.192	0.46	3.85	7.97	28.03	Pass

**Mode 13: Transmit by 802.11n(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-4.977	-5.878	-4.827	-4.381	0.46	1.47	11.03	11.97	Pass
CH46	5230	-5.574	-5.843	-4.933	-4.360	0.46	1.31	11.03	11.97	Pass
CH54	5270	-5.122	-5.841	-5.267	-5.331	0.46	1.07	11.03	11.97	Pass
CH62	5310	-5.655	-6.032	-6.161	-4.913	0.46	0.79	11.03	5.97	Pass
CH102	5510	-4.758	-5.260	-4.682	-4.652	0.46	1.62	11.03	5.97	Pass
CH110	5550	-5.472	-4.857	-4.836	-4.186	0.46	1.64	11.03	5.97	Pass
CH134	5670	-5.459	-5.192	-4.545	-4.980	0.46	1.42	11.03	5.97	Pass
CH142	5710	-5.897	-5.437	-5.092	-5.229	0.46	1.05	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH151	5755	-3.941	-4.035	-1.752	-2.665	0.46	3.46	11.03	24.97	Pass
CH159	5795	-4.021	-4.217	-1.875	-2.672	0.46	3.36	11.03	24.97	Pass

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	6.072	5.630	0.11	8.98	7.97	15.03	Pass
CH44	5220	6.176	6.076	0.11	9.25	7.97	15.03	Pass
CH48	5240	5.917	6.188	0.11	9.17	7.97	15.03	Pass
CH52	5260	4.817	4.573	0.11	7.82	7.97	9.03	Pass
CH60	5300	5.692	5.092	0.11	8.52	7.97	9.03	Pass
CH64	5320	5.229	4.564	0.11	8.03	7.97	9.03	Pass
CH100	5500	4.059	3.452	0.11	6.89	7.97	9.03	Pass
CH116	5580	4.097	3.782	0.11	7.06	7.97	9.03	Pass
CH140	5700	6.047	5.998	0.11	9.14	7.97	9.03	Pass
CH144	5720	5.055	4.294	0.11	7.81	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	4.983	4.810	0.11	8.02	7.97	28.03	Pass
CH157	5785	4.086	3.771	0.11	7.05	7.97	28.03	Pass
CH165	5825	4.171	4.205	0.11	7.31	7.97	28.03	Pass

**Mode 14: Transmit by 802.11ac(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-0.146	-0.655	-0.473	0.670	0.11	6.00	11.03	11.97	Pass
CH44	5220	0.046	-1.025	-0.531	0.381	0.11	5.87	11.03	11.97	Pass
CH48	5240	-0.794	-0.960	-0.447	0.328	0.11	5.68	11.03	11.97	Pass
CH52	5260	-3.175	-2.968	-2.314	-2.409	0.11	3.42	11.03	5.97	Pass
CH60	5300	-3.739	-3.439	-2.900	-2.591	0.11	2.98	11.03	5.97	Pass
CH64	5320	-3.466	-3.963	-2.862	-2.402	0.11	2.99	11.03	5.97	Pass
CH100	5500	-3.959	-3.453	-3.330	-1.697	0.11	3.10	11.03	5.97	Pass
CH116	5580	-2.703	-2.870	-2.128	-1.496	0.11	3.86	11.03	5.97	Pass
CH140	5700	-3.217	-2.961	-1.754	-1.545	0.11	3.81	11.03	5.97	Pass
CH144	5720	-3.555	-3.556	-2.011	-1.803	0.11	3.47	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-1.178	-1.960	0.043	-0.555	0.11	5.27	11.03	24.97	Pass
CH157	5785	-2.123	-2.069	-0.600	-0.807	0.11	4.78	11.03	24.97	Pass
CH165	5825	-1.834	-1.932	-0.420	-0.525	0.11	5.00	11.03	24.97	Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	2.032	1.942	0.16	5.16	7.97	15.03	Pass
CH46	5230	2.293	2.040	0.16	5.34	7.97	15.03	Pass
CH54	5270	0.891	0.514	0.16	3.88	7.97	15.03	Pass
CH62	5310	1.284	1.438	0.16	4.53	7.97	9.03	Pass
CH102	5510	1.079	1.836	0.16	4.64	7.97	9.03	Pass
CH110	5550	1.190	0.962	0.16	4.25	7.97	9.03	Pass
CH134	5670	3.442	3.880	0.16	6.84	7.97	9.03	Pass
CH142	5710	3.770	3.851	0.16	6.98	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	1.297	1.832	0.16	4.74	7.97	28.03	Pass
CH159	5795	0.720	1.337	0.16	4.21	7.97	28.03	Pass

**Mode 15: Transmit by 802.11ac(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/ MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-4.569	-5.091	-4.061	-4.048	0.16	1.92	11.03	11.97	Pass
CH46	5230	-4.855	-5.117	-4.505	-3.709	0.16	1.83	11.03	11.97	Pass
CH54	5270	-5.611	-6.517	-5.184	-5.380	0.16	0.70	11.03	11.97	Pass
CH62	5310	-6.032	-6.561	-5.834	-4.964	0.16	0.53	11.03	5.97	Pass
CH102	5510	-5.122	-5.679	-4.711	-4.294	0.16	1.42	11.03	5.97	Pass
CH110	5550	-5.596	-5.511	-4.544	-4.196	0.16	1.42	11.03	5.97	Pass
CH134	5670	-5.220	-5.437	-3.936	-5.114	0.16	1.45	11.03	5.97	Pass
CH142	5710	-5.034	-5.859	-4.532	-5.345	0.16	1.17	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/ 500KH z)	Result
		Ant0	Ant1	Ant2	Ant3					
CH151	5755	-3.379	-3.770	-1.608	-2.736	0.16	3.55	11.03	24.97	Pass
CH159	5795	-4.264	-4.387	-2.859	-2.824	0.16	2.82	11.03	24.97	Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH42	5210	-1.116	-1.485	0.27	1.98	7.97	15.03	Pass
CH58	5290	-2.729	-3.156	0.27	0.34	7.97	15.03	Pass
CH106	5530	-4.941	-4.717	0.27	-1.55	7.97	15.03	Pass
CH138	5690	-3.260	-3.758	0.27	-0.22	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH155	5775	-2.562	-2.147	0.27	0.93	7.97	28.03	Pass

**Mode 16: Transmit by 802.11ac(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH42	5210	-8.083	-8.033	-7.397	-7.217	0.27	-1.01	11.03	11.97	Pass
CH58	5290	-8.517	-9.112	-8.024	-8.393	0.27	-1.83	11.03	11.97	Pass
CH106	5530	-7.800	-8.086	-7.775	-6.919	0.27	-0.96	11.03	11.97	Pass
CH138	5690	-8.234	-8.475	-7.697	-6.876	0.27	-1.12	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH155	5775	-8.778	-9.028	-6.259	-8.055	0.27	-1.23	11.03	24.97	Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH36	5180	6.364	6.224	0.14	9.44	7.97	15.03	Pass
CH44	5220	6.438	6.218	0.14	9.48	7.97	15.03	Pass
CH48	5240	6.067	6.359	0.14	9.37	7.97	15.03	Pass
CH52	5260	4.954	4.890	0.14	8.07	7.97	9.03	Pass
CH60	5300	5.441	5.580	0.14	8.66	7.97	9.03	Pass
CH64	5320	5.507	5.523	0.14	8.67	7.97	9.03	Pass
CH100	5500	3.770	3.717	0.14	6.89	7.97	9.03	Pass
CH116	5580	4.349	3.799	0.14	7.23	7.97	9.03	Pass
CH140	5700	4.984	4.567	0.14	7.93	7.97	9.03	Pass
CH144	5720	4.310	4.448	0.14	7.53	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH149	5745	4.297	4.684	0.14	7.65	7.97	28.03	Pass
CH157	5785	3.910	3.837	0.14	7.02	7.97	28.03	Pass
CH165	5825	4.381	3.870	0.14	7.28	7.97	28.03	Pass

**Mode 17: Transmit by 802.11ax(20MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH36	5180	-0.595	-1.304	-0.285	0.228	0.14	5.67	11.03	11.97	Pass
CH44	5220	-1.105	-0.908	-0.680	0.497	0.14	5.62	11.03	11.97	Pass
CH48	5240	0.962	-1.260	-0.425	-0.122	0.14	5.98	11.03	11.97	Pass
CH52	5260	-3.425	-2.957	-2.412	-1.957	0.14	3.47	11.03	5.97	Pass
CH60	5300	-4.323	-4.139	-2.984	-2.658	0.14	2.65	11.03	5.97	Pass
CH64	5320	-3.772	-3.957	-2.772	-2.116	0.14	3.03	11.03	5.97	Pass
CH100	5500	-4.385	-3.459	-3.180	-1.654	0.14	3.07	11.03	5.97	Pass
CH116	5580	-3.201	-3.349	-2.708	-0.835	0.14	3.72	11.03	5.97	Pass
CH140	5700	-4.149	-3.948	-2.319	-2.715	0.14	2.91	11.03	5.97	Pass
CH144	5720	-4.701	-4.233	-2.388	-3.427	0.14	2.52	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500kHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH149	5745	-1.568	-2.469	-0.184	-0.780	0.14	4.95	11.03	24.97	Pass
CH157	5785	-2.620	-2.422	-0.744	-1.014	0.14	4.50	11.03	24.97	Pass
CH165	5825	-2.167	-2.665	-0.390	-0.810	0.14	4.71	11.03	24.97	Pass

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH38	5190	1.449	1.530	0.23	4.73	7.97	15.03	Pass
CH46	5230	1.086	1.643	0.23	4.61	7.97	15.03	Pass
CH54	5270	0.351	0.623	0.23	3.73	7.97	15.03	Pass
CH62	5310	1.029	1.036	0.23	4.27	7.97	9.03	Pass
CH102	5510	1.298	0.357	0.23	4.09	7.97	9.03	Pass
CH110	5550	0.819	1.043	0.23	4.17	7.97	9.03	Pass
CH134	5670	3.220	2.783	0.23	6.25	7.97	9.03	Pass
CH142	5710	2.761	3.493	0.23	6.38	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH151	5755	1.207	0.594	0.23	4.15	7.97	28.03	Pass
CH159	5795	0.560	0.172	0.23	3.61	7.97	28.03	Pass

**Mode 18: Transmit by 802.11ax(40MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/ MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH38	5190	-7.640	-8.340	-5.155	-4.792	0.23	0.25	11.03	11.97	Pass
CH46	5230	-7.329	-8.014	-5.288	-5.385	0.23	0.13	11.03	11.97	Pass
CH54	5270	-6.370	-7.781	-4.874	-5.043	0.23	0.60	11.03	11.97	Pass
CH62	5310	-6.508	-7.513	-5.456	-5.177	0.23	0.40	11.03	5.97	Pass
CH102	5510	-6.363	-6.745	-5.393	-4.654	0.23	0.76	11.03	5.97	Pass
CH110	5550	-5.826	-6.239	-4.602	-4.512	0.23	1.24	11.03	5.97	Pass
CH134	5670	-5.697	-6.140	-5.049	-4.985	0.23	1.03	11.03	5.97	Pass
CH142	5710	-6.081	-6.773	-4.871	-5.653	0.23	0.68	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/ 500KH z)	Result
		Ant0	Ant1	Ant2	Ant3					
CH151	5755	-4.229	-4.747	-1.531	-2.888	0.23	3.31	11.03	24.97	Pass
CH159	5795	-4.525	-4.896	-2.507	-2.719	0.23	2.94	11.03	24.97	Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH42	5210	-1.055	-1.603	0.33	2.02	7.97	15.03	Pass
CH58	5290	-2.628	-3.289	0.33	0.39	7.97	15.03	Pass
CH106	5530	-5.697	-5.689	0.33	-2.35	7.97	15.03	Pass
CH138	5690	-4.036	-3.605	0.33	-0.47	7.97	9.03	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1					
CH155	5775	-2.416	-2.595	0.33	0.84	7.97	28.03	Pass

**Mode 19: Transmit by 802.11ax(80MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH42	5210	-10.771	-11.394	-8.470	-9.124	0.33	-2.98	11.03	11.97	Pass
CH58	5290	-10.934	-11.820	-9.070	-9.130	0.33	-3.28	11.03	11.97	Pass
CH106	5530	-9.196	-9.590	-8.135	-8.363	0.33	-1.98	11.03	11.97	Pass
CH138	5690	-9.639	-9.163	-8.239	-8.771	0.33	-2.12	11.03	5.97	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH155	5775	-10.013	-10.056	-7.441	-8.665	0.33	-2.10	11.03	24.97	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty factor	Total Measurement PSD (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1					
CH50	5250	-6.243	-6.239	0.49	-2.74	7.97	15.03	Pass
CH144	5570	-8.459	-8.686	0.49	-5.07	7.97	15.03	Pass

**Mode 20: Transmit by 802.11ax(160MHz) with Beam-forming by ant0+1+2+3**

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)				Duty factor	Total Measurement PSD (dBm/500kHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant0	Ant1	Ant2	Ant3					
CH50	5250	-10.850	-11.666	-11.368	-11.283	0.49	-4.77	11.03	11.97	Pass
CH144	5570	-11.243	-11.475	-10.527	-10.993	0.49	-4.53	11.03	11.97	Pass

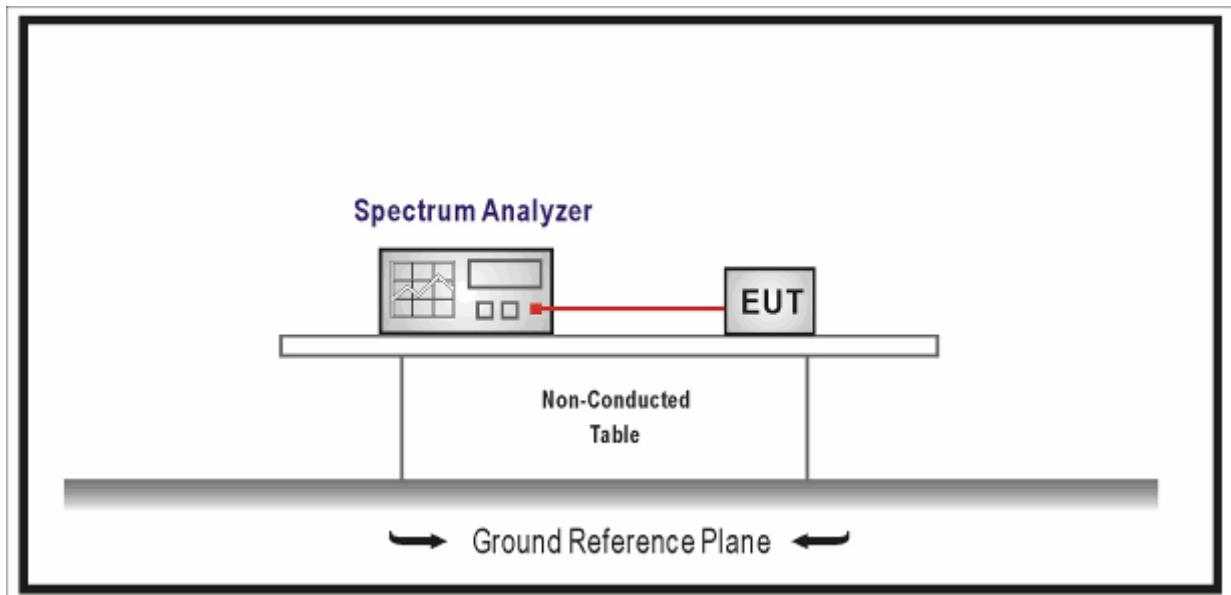
## 9. Band Edge

### 9.1. Test Equipment

Band Edge / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2019.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



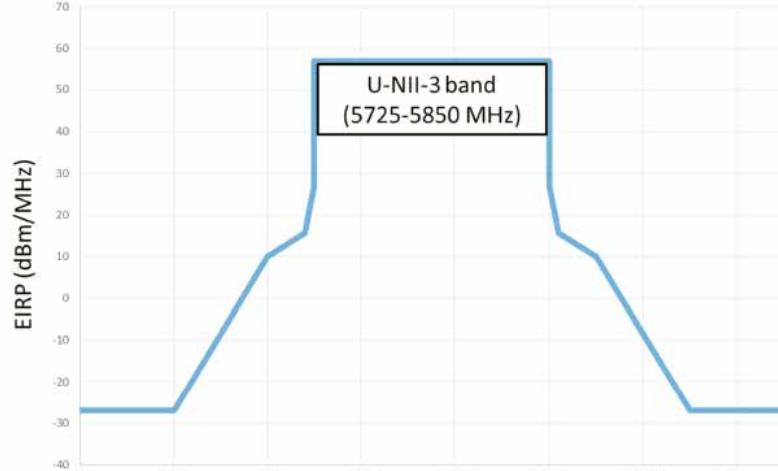
### 9.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB $\mu$ V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

<b>FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)</b>			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

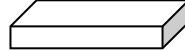
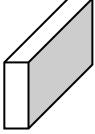
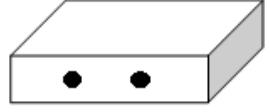
<b>FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)</b>		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB $\mu$ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850	 U-NII-3 band (5725-5850 MHz)	

## 9.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
<input checked="" type="checkbox"/>	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	12.7.5	Radiated emission measurements
	<input type="checkbox"/> ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	<input type="checkbox"/> ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	<input type="checkbox"/> <input type="checkbox"/> ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	<input type="checkbox"/> ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	<input type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold
<input type="checkbox"/>	FCC KDB 789033 D02v01r04	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
<input type="checkbox"/>	FCC KDB 789033	G.1	Unwanted Emissions in the Restricted Bands

	D02v01r04			
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz	
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz	
	<input type="checkbox"/> FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz	
	<input type="checkbox"/>	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	<input type="checkbox"/>	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

## 9.5. EUT test Axis definition

Item	Band Edge			
Device Category	<input checked="" type="checkbox"/>	Indoor use		
	<input type="checkbox"/>	Outdoor use		
	<input type="checkbox"/>	Fix position use		
	<input type="checkbox"/>	Client use		
Test mode	Mode 1-20			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 9.6. Test Result

AV-Ant 0+1 with CDD:

**Band I AV Limit=54 dBuV/m-95.2-10lg2( 2tx )-7.97( Directional Gain )-0.7( cable loss )=-53dbm  
5180MHz by 802.11a:**



**5320MHz by 802.11a:**



## 5500MHz by 802.11a:



**5180MHz by 802.11n(20MHz):**

**5320MHz by 802.11n(20MHz):**


### 5500MHz by 802.11n(20MHz):



### 5190MHz by 802.11n(40MHz):



### 5310MHz by 802.11n(40MHz):



### 5510MHz by 802.11n(40MHz):



### 5180MHz by 802.11ac(20MHz):



### 5320MHz by 802.11ac(20MHz):



### 5500MHz by 802.11ac(20MHz):



**5190MHz by 802.11ac(40MHz):**

**5310MHz by 802.11ac(40MHz):**


### 5510MHz by 802.11ac(40MHz):



**5210MHz by 802.11ac(80MHz):**

**5290MHz by 802.11ac(80MHz):**


### 5530MHz by 802.11ac(80MHz):



**5180MHz by 802.11ax(20MHz):**



**5320MHz by 802.11ax(20MHz):**



### 5500MHz by 802.11ax(20MHz):



**5190MHz by 802.11ax(40MHz):**

**5310MHz by 802.11ax(40MHz):**

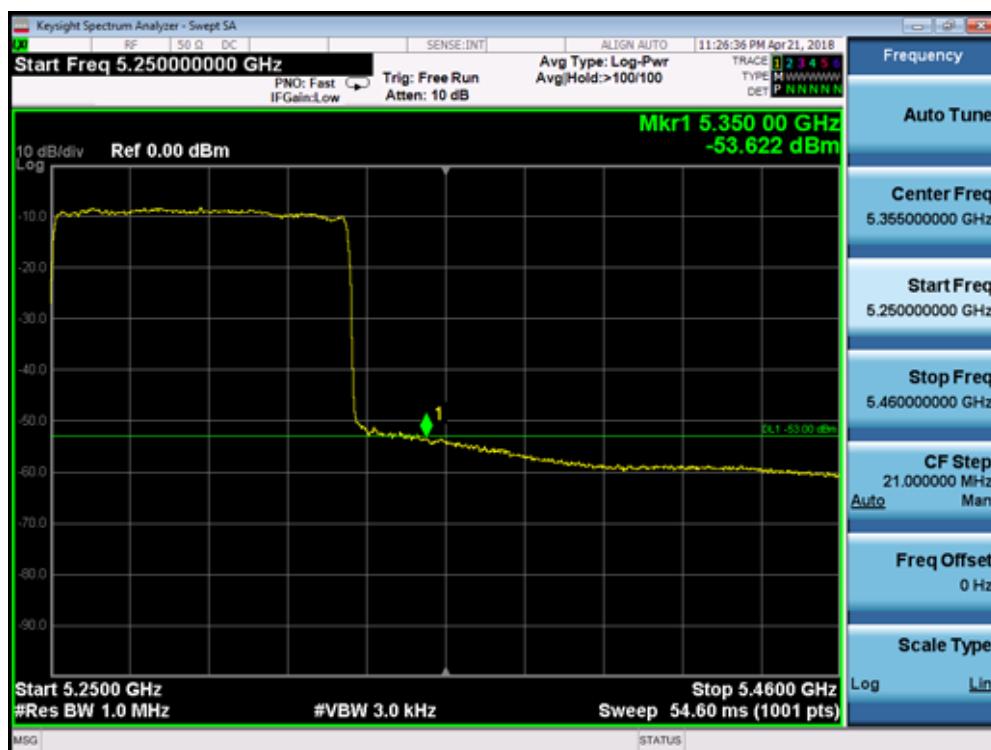

### 5510MHz by 802.11ax(40MHz):



**5210MHz by 802.11ax(80MHz):**



**5290MHz by 802.11ax(80MHz):**



### 5530MHz by 802.11ax(80MHz):



### 5250MHz by 802.11ax(160MHz):

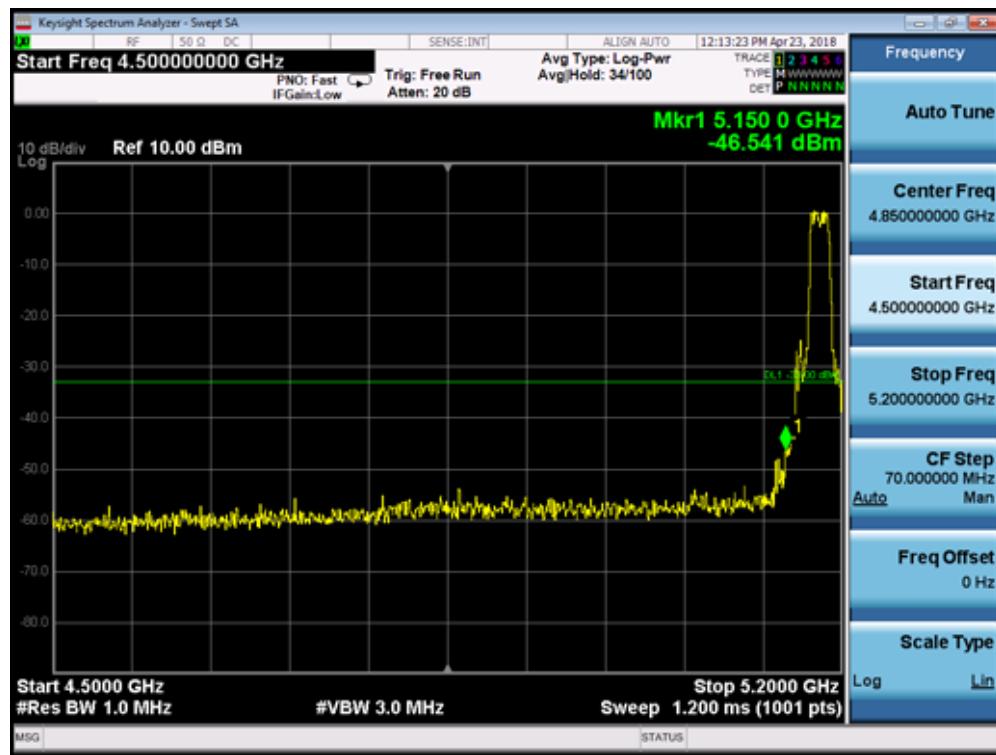
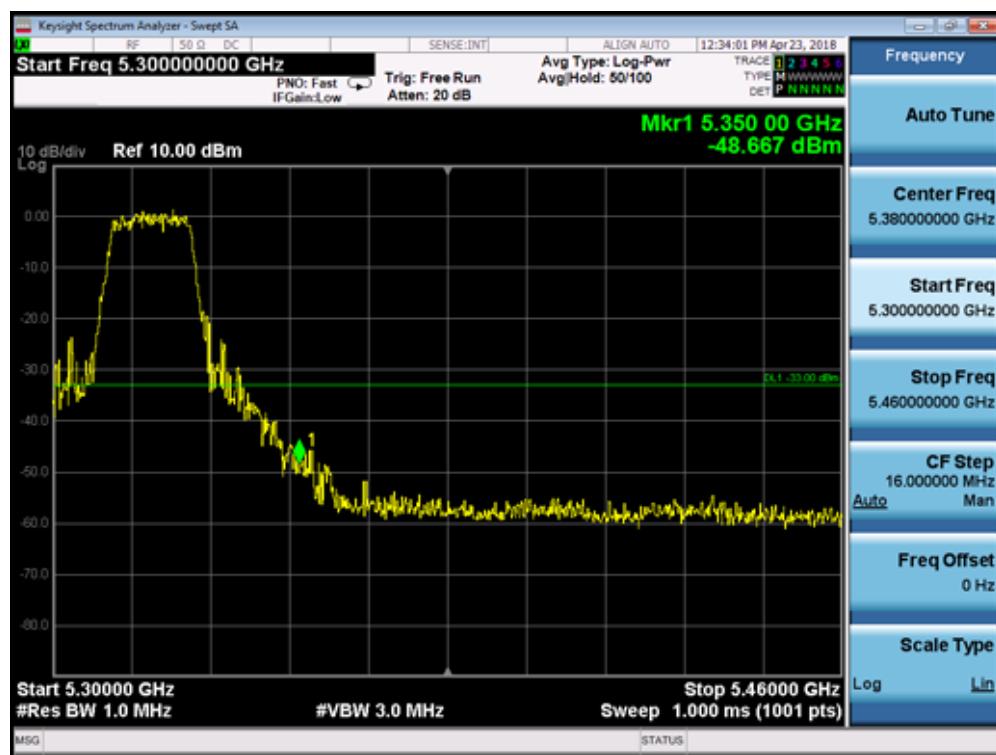


### 5570MHz by 802.11ax(160MHz):

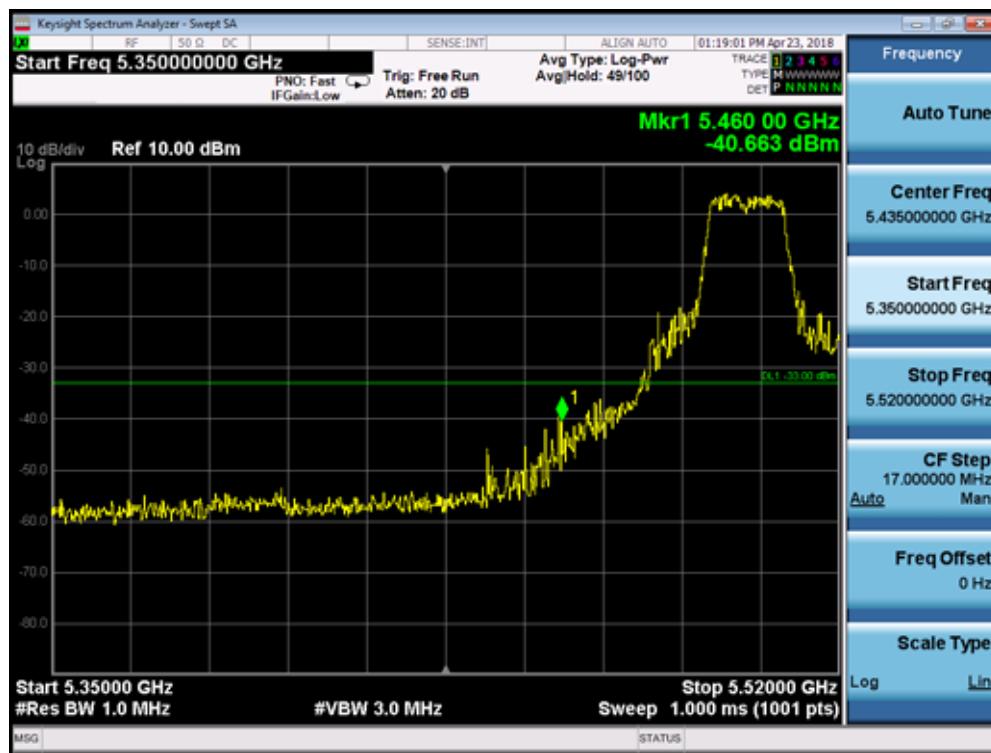


**PK-Ant 0+1 with CDD:**

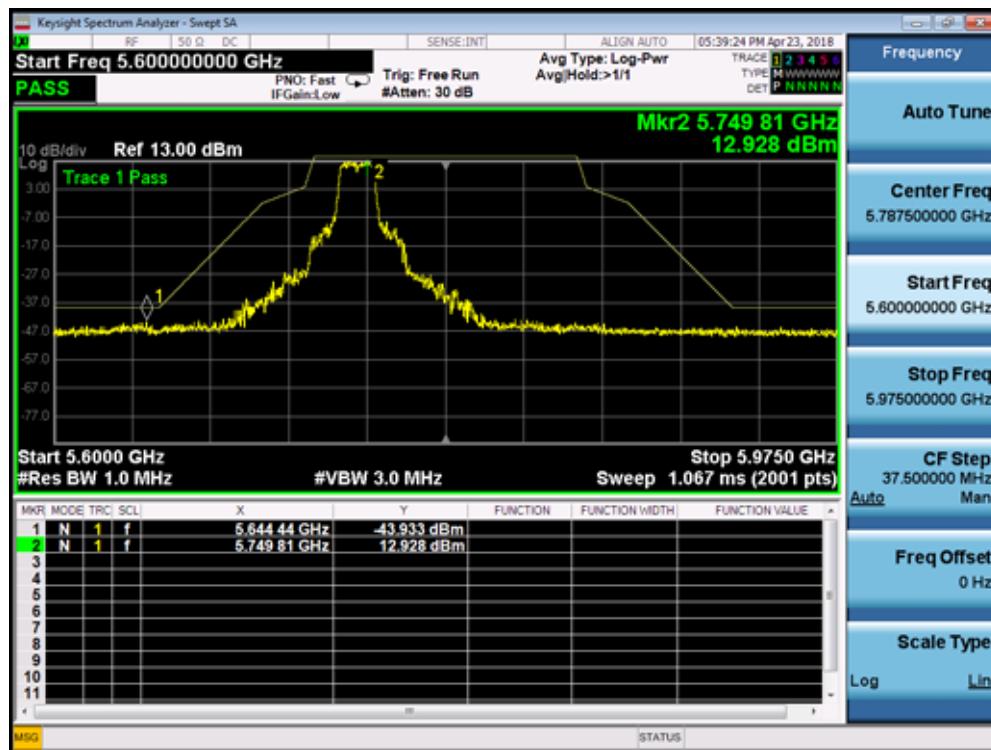
**Band I PK Limit=74 dBuV/m-95.2-10lg2( 2tx )-7.97( Directional Gain )-0.7( cable loss )=-33dbm  
5180MHz by 802.11a:**

**5320MHz by 802.11a:**

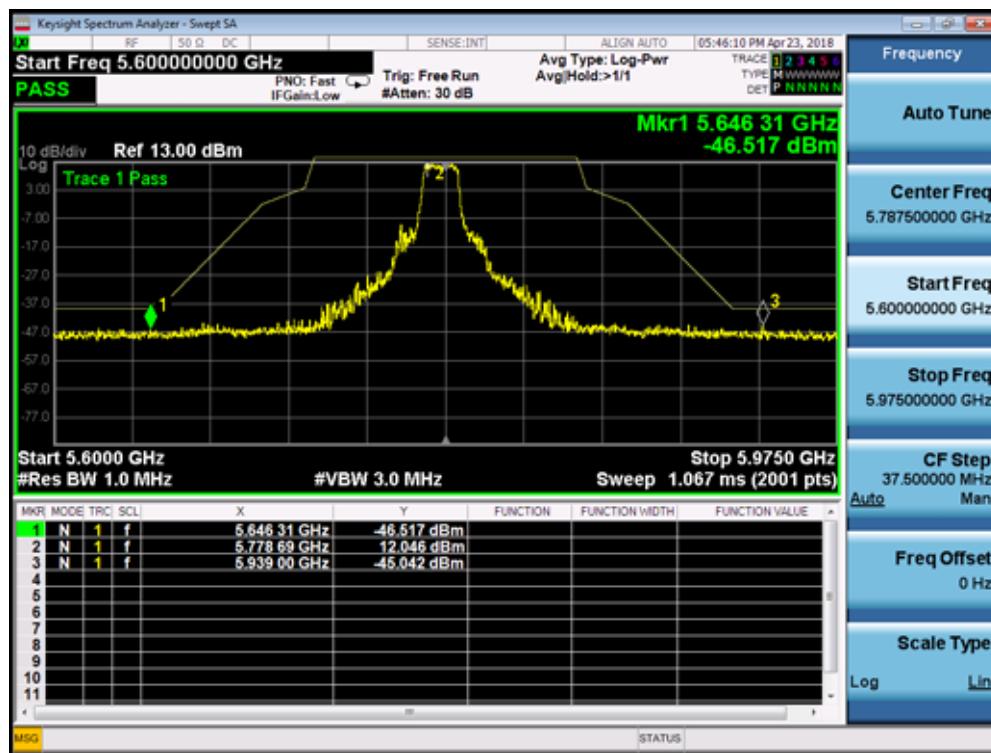
### 5500MHz by 802.11a:



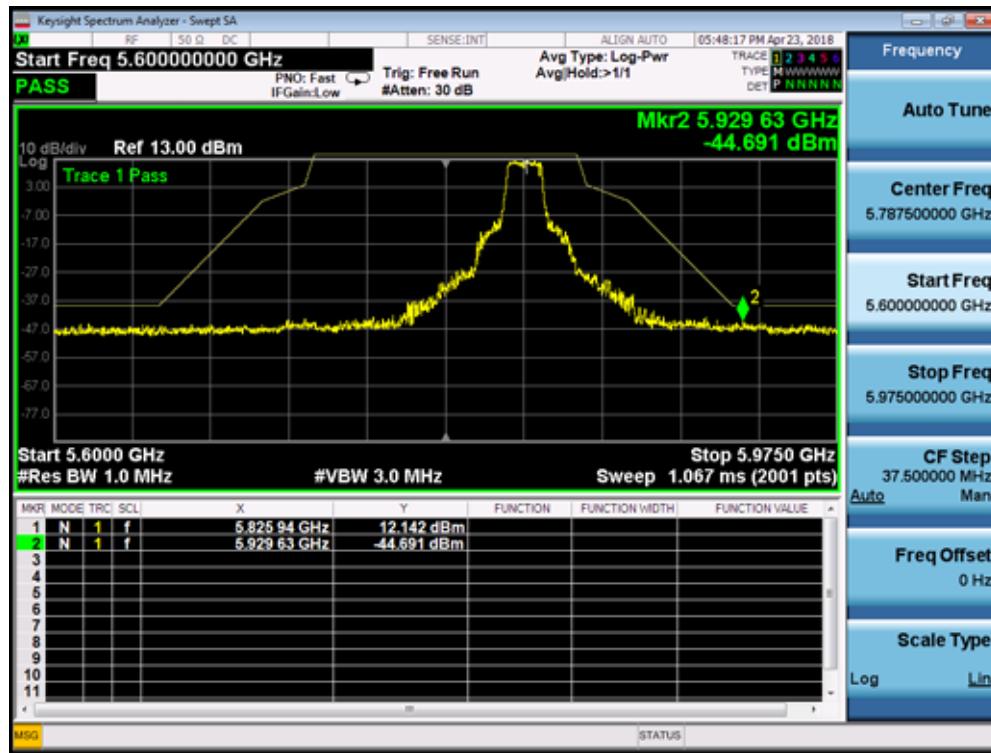
### 5745MHz by 802.11a:



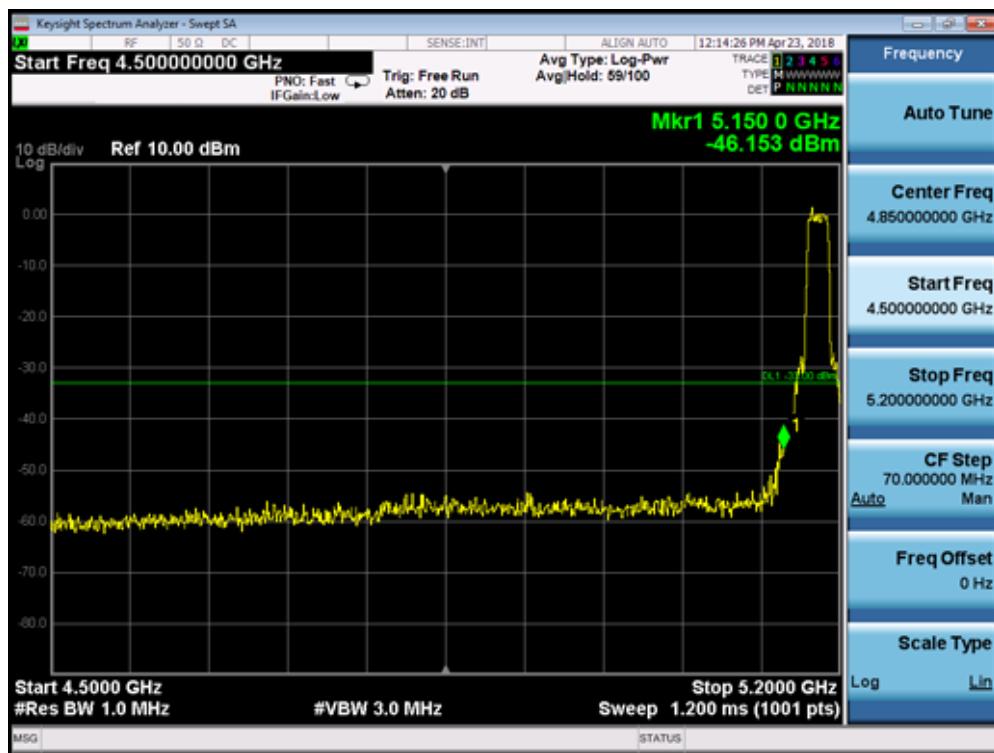
## 5785MHz by 802.11a:



## 5825MHz by 802.11a:

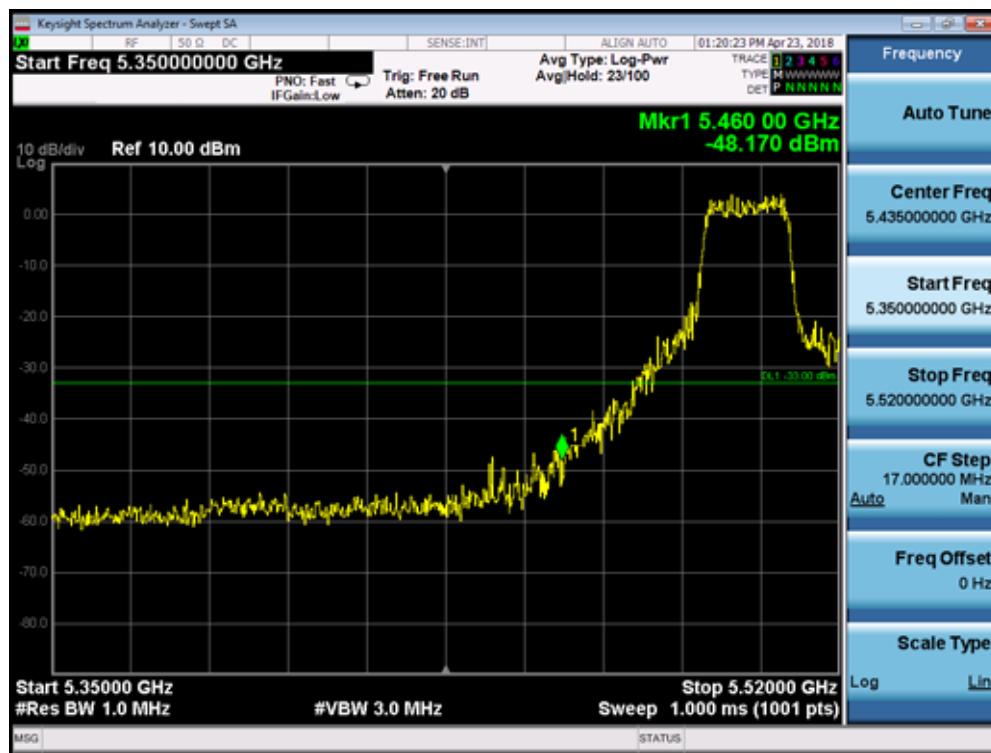
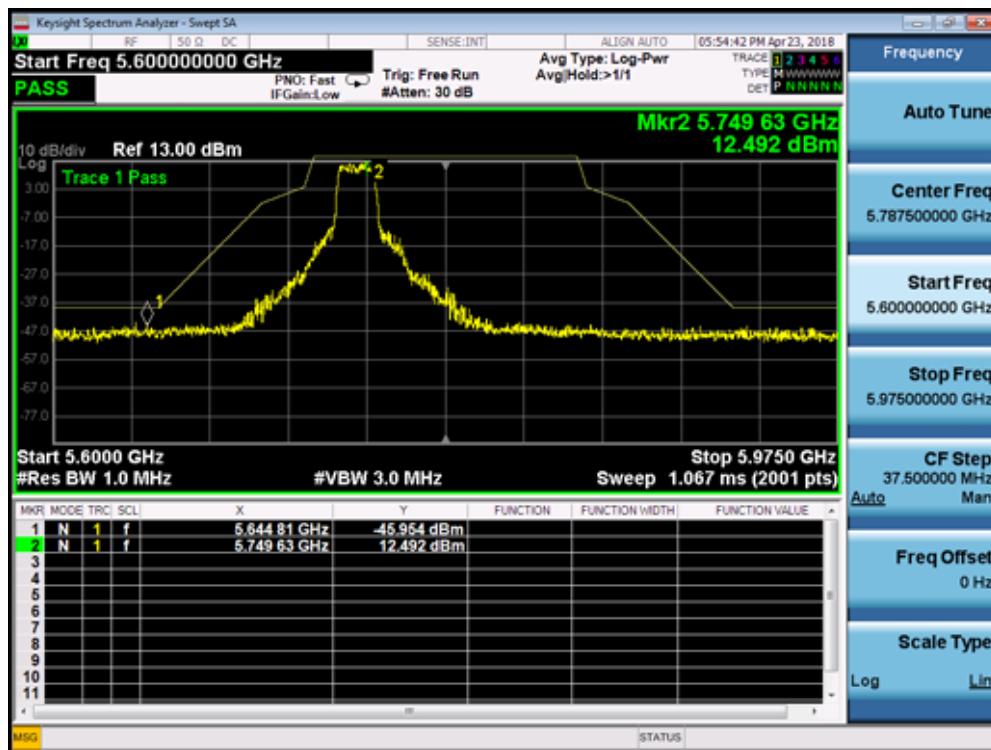


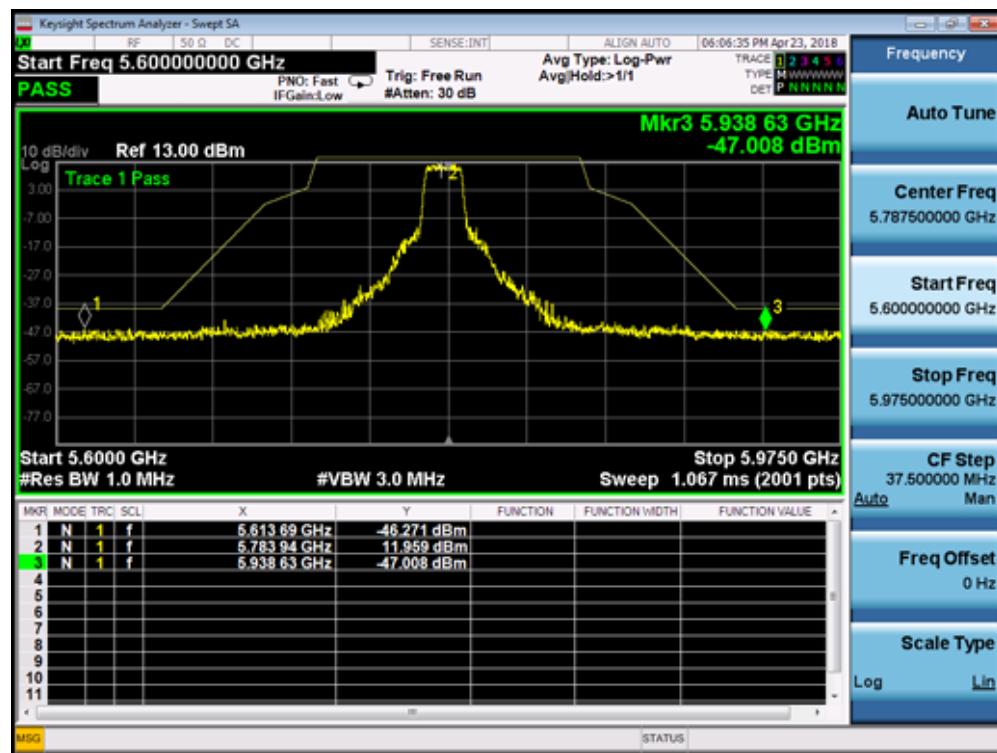
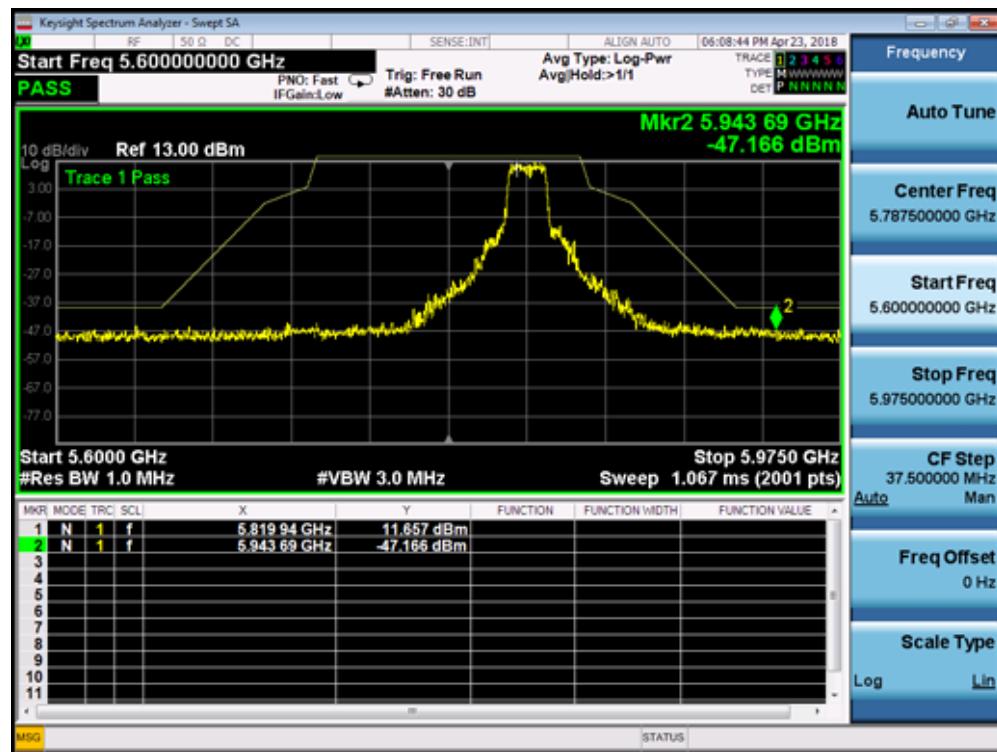
### 5180MHz by 802.11n(20MHz):

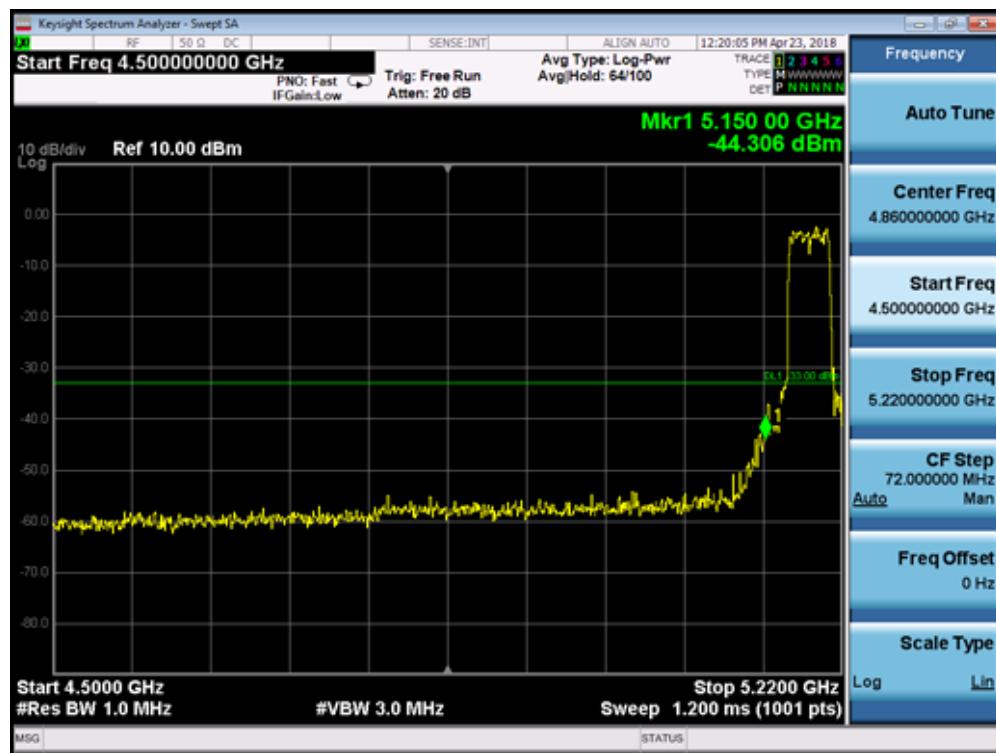
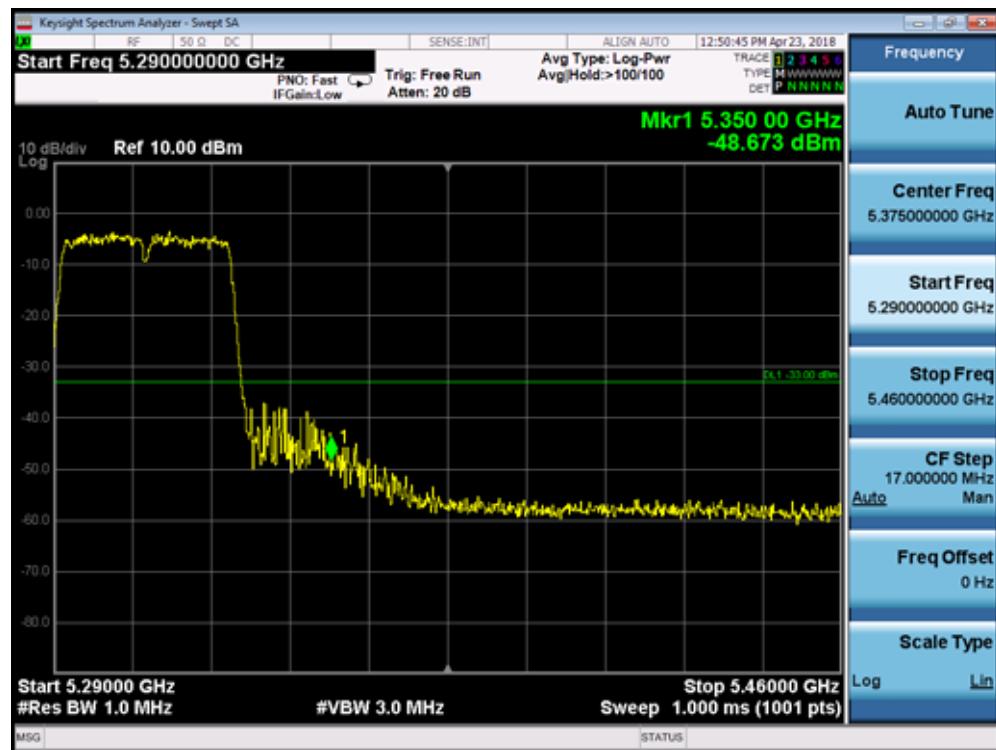


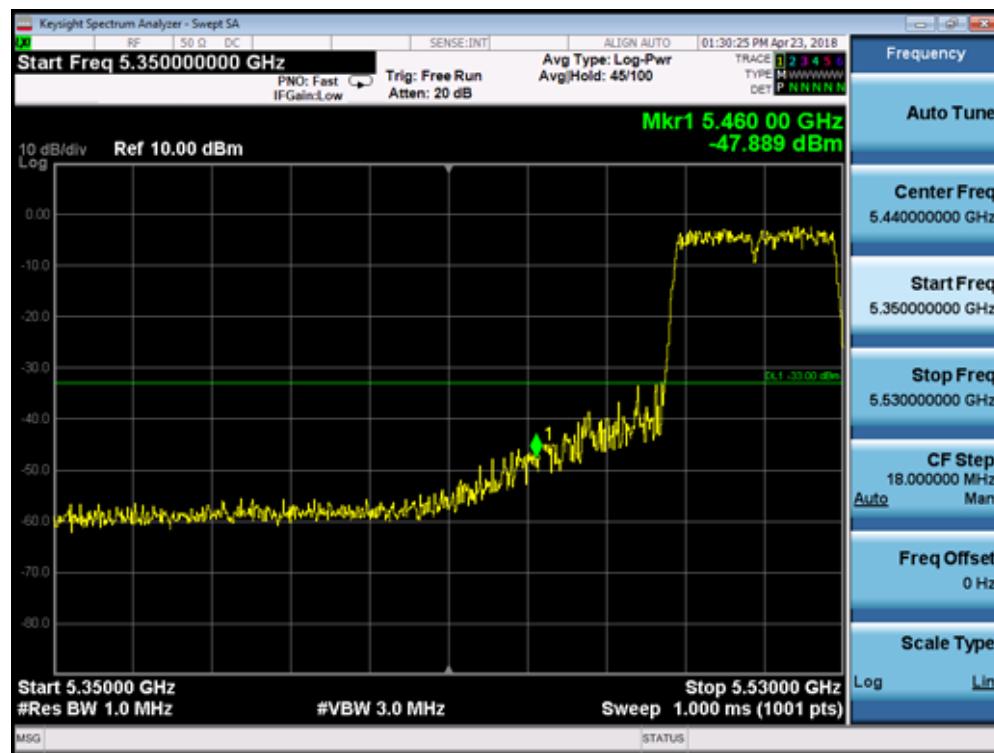
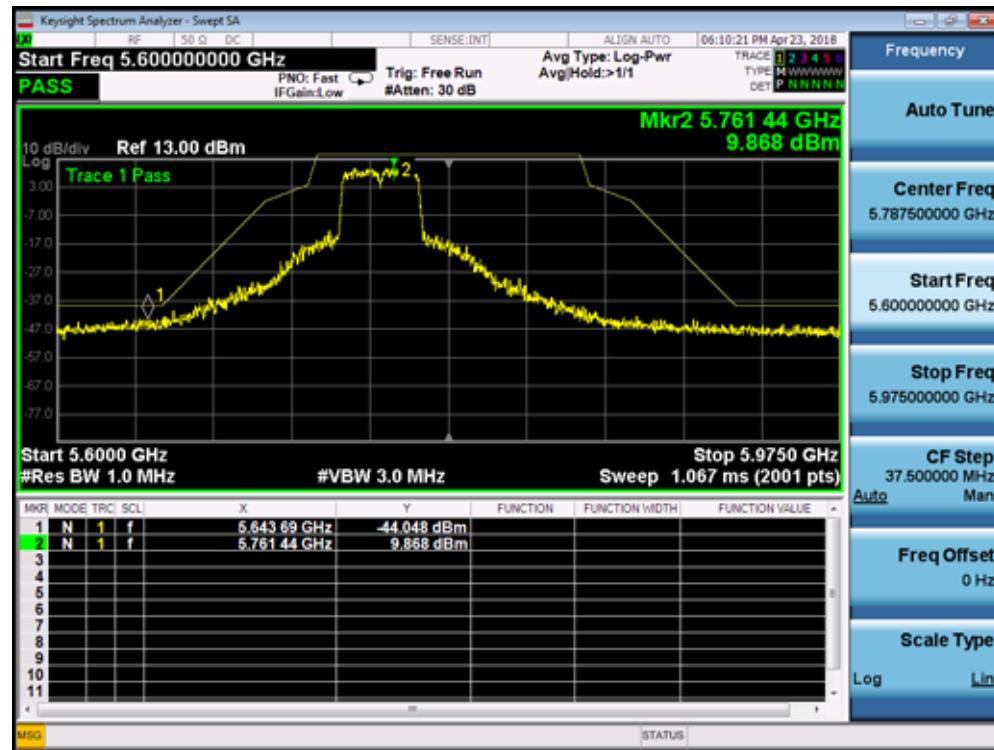
### 5320MHz by 802.11n(20MHz):



**5500MHz by 802.11n(20MHz):**

**5745MHz by 802.11n(20MHz):**


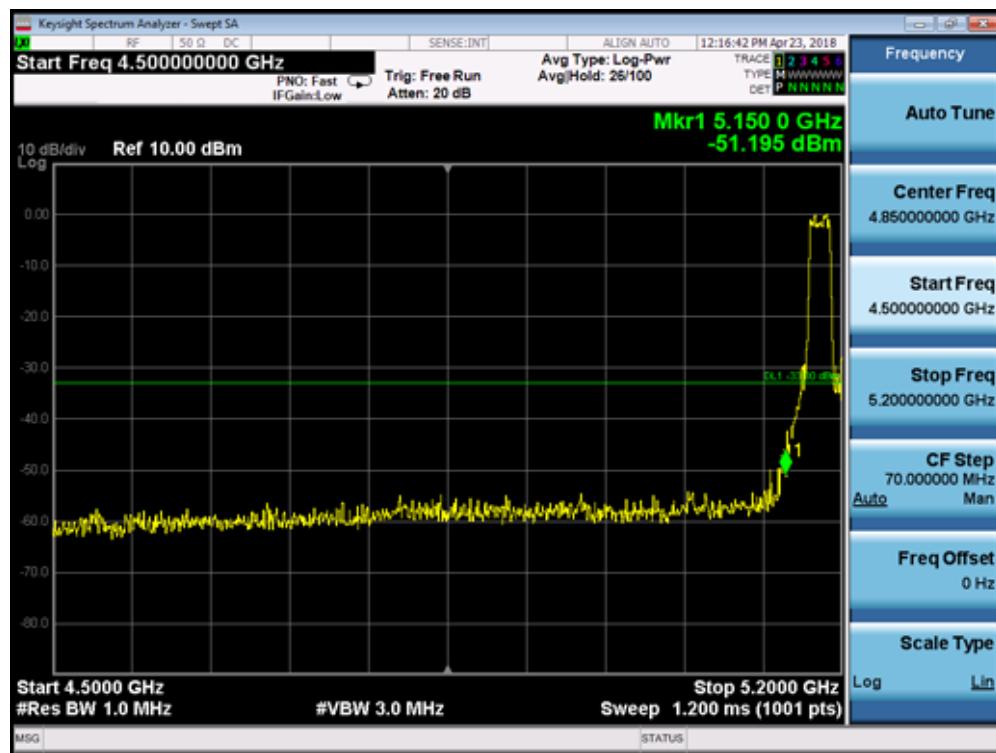
**5785MHz by 802.11n(20MHz):**

**5825MHz by 802.11n(20MHz):**


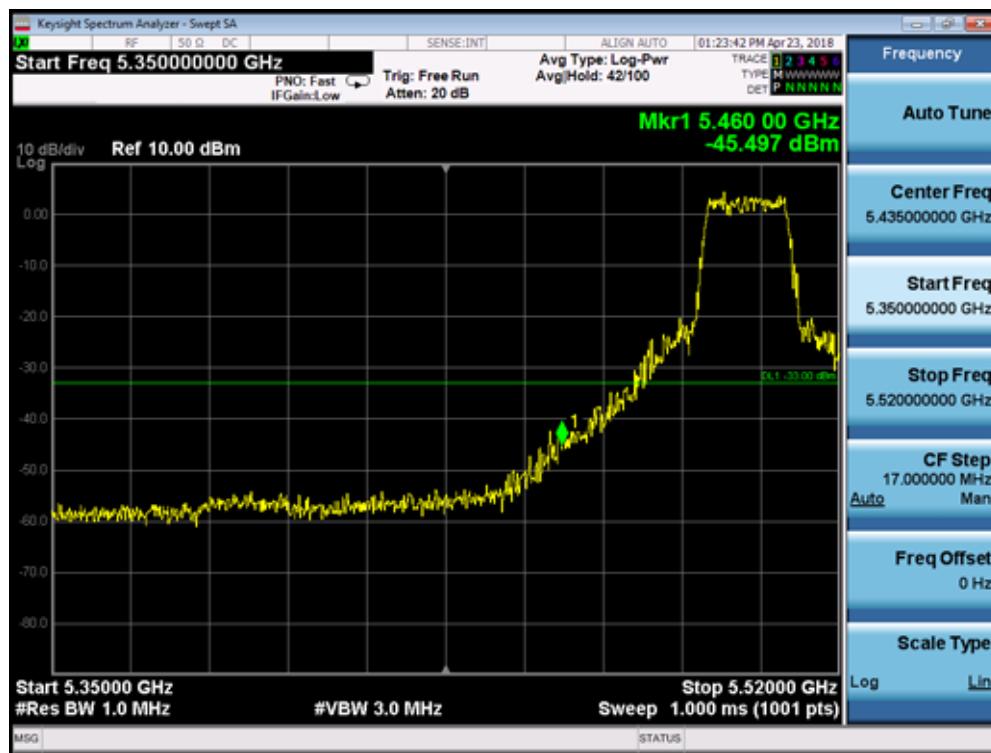
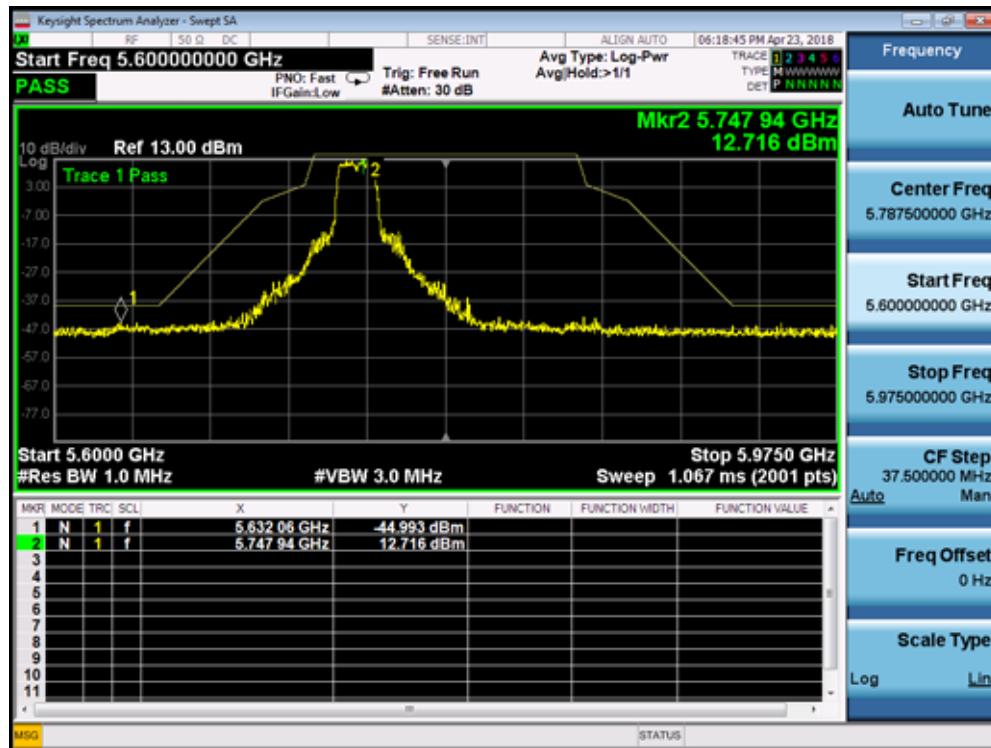
**5190MHz by 802.11n(40MHz):**

**5310MHz by 802.11n(40MHz):**


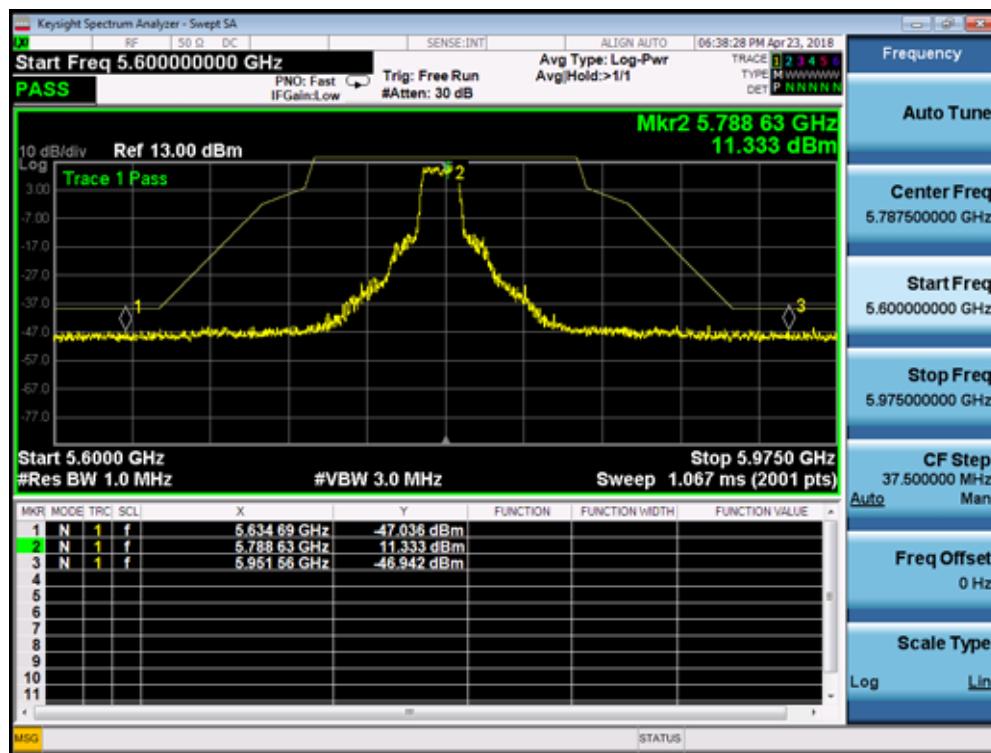
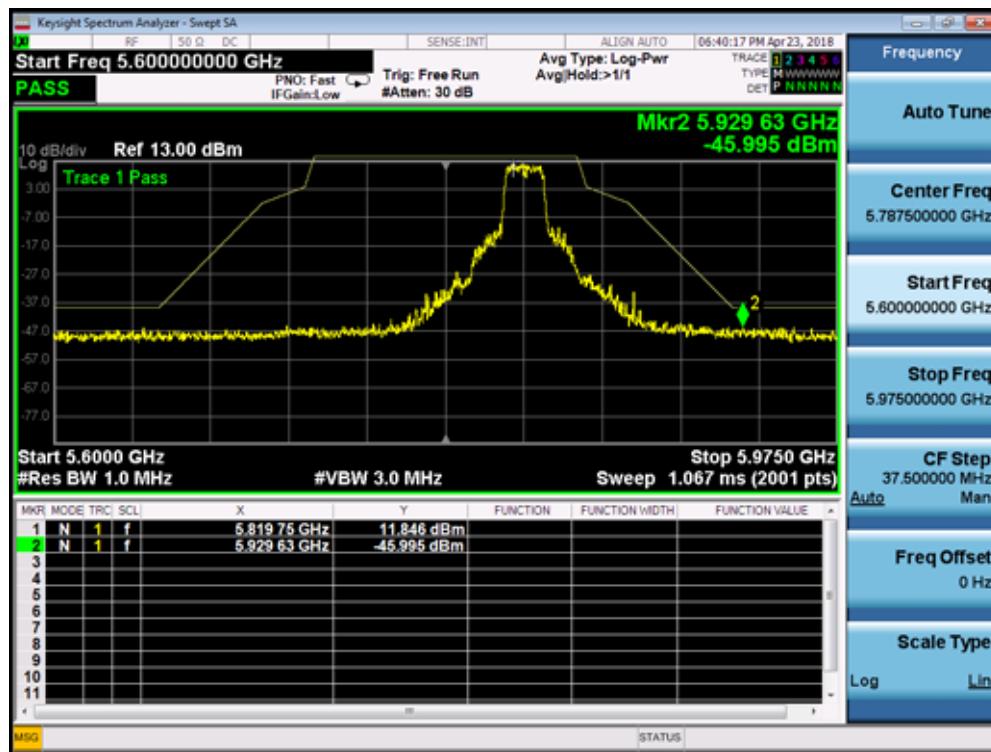
**5510MHz by 802.11n(40MHz):**

**5755MHz by 802.11n(40MHz):**


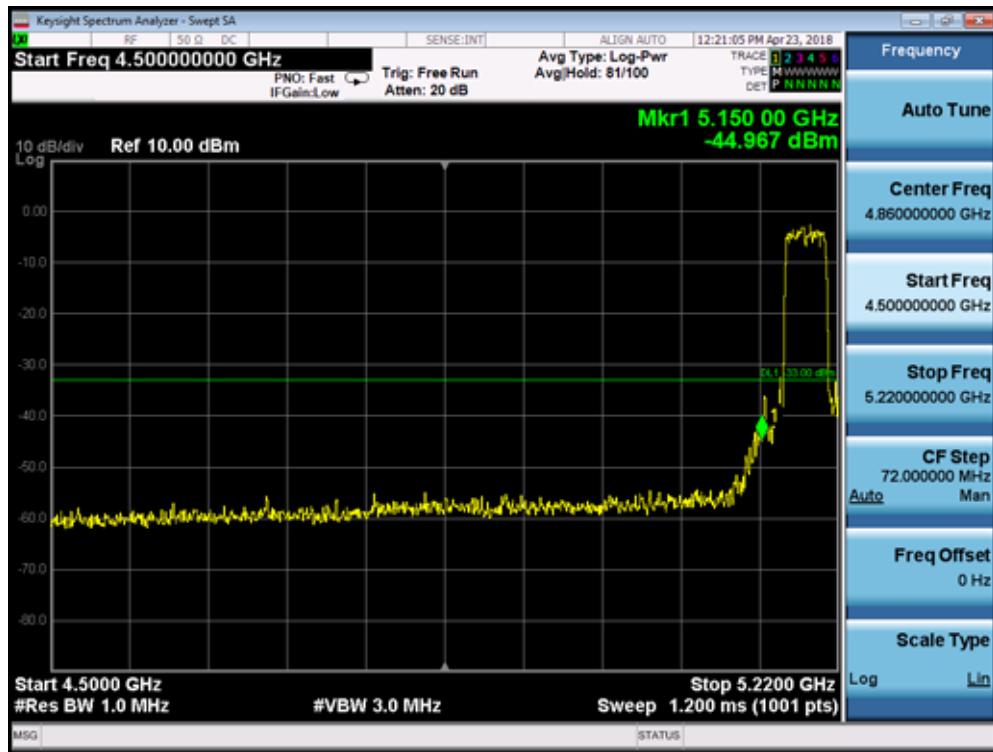
### 5795MHz by 802.11n(40MHz):



**5180MHz by 802.11ac(20MHz):**

**5320MHz by 802.11ac(20MHz):**


**5500MHz by 802.11ac(20MHz):**

**5745MHz by 802.11ac(20MHz):**


**5785MHz by 802.11ac(20MHz):**

**5825MHz by 802.11ac(20MHz):**


**5190MHz by 802.11ac(40MHz):**

**5310MHz by 802.11ac(40MHz):**
