FCC C2PC Test Report

FCC Part15 Subpart E

Product Name	:	Wireless Access Point
Model No.	:	AP305CX
FCC ID	:	QXO-AP305C

Applicant	:	Extreme Networks, Inc
Address	:	Extreme Networks, 6480 Via Del Oro / San Jose, CA 95119 U.S.A.

Date of Receipt	:	Oct. 14, 2020
Test Date	:	Oct. 14, 2020~ Dec. 01, 2020
Issued Date	:	Dec. 02, 2020
Report No.	:	20A0241R-RF-US-P09V01
Report Version	:	V1.0

Test Report Certification

Issued Date: Dec. 02, 2020
Report No.: 20A0241R-RF-US-P09V01

Product Name	:	Wireless Access Point
Applicant	:	Extreme Networks, Inc
Address	:	Extreme Networks, 6480 Via Del Oro / San Jose, CA 95119 U.S.A.
Manufacturer	:	Extreme Networks, Inc
Address	:	Extreme Networks, 6480 Via Del Oro / San Jose, CA 95119 U.S.A.
Model No.	:	AP305CX
Brand	:	Extreme Networks
FCC ID	:	QXO-AP305C
EUT Voltage	:	POE 48V
Test Voltage	:	AC 120V/60Hz
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. No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Designation Number: CN1199;

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Reviewed By : Frank he

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Approved By : Jack zhang

(Engineer Supervisor: Jack Zhang)

TABLE OF CONTENTS

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
20A0241R-RF-US-P09V01	V1.0	Initial Issued Report	Dec. 02, 2020

1. General Information

1.1. EUT Description

Product Name	Wireless Access Point					
Model No.	AP305CX					
EUT Voltage	PoE48V					
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 300Mbps					
	802.11ac: up to 866.6Mbps					
	802.11ax: up to 1.2Gbps					
Channel Control	Auto					
Transmit modes	☒	802.11a	☒	802.11n(20MHz)	☒	802.11n(40MHz)
	☒	802.11ac(20MHz)	☒	802.11ac(40MHz)	☒	802.11ac(80MHz)
	☒	802.11ax(20MHz)	☒	802.11ax(40MHz)	☒	802.11ax(80MHz)
	☐	802.11ax(160MHz)				
Support Bands	☒	5150MHz~5250MHz	☒	Outdoor AP		
			☒	Indoor AP		
			☐	Fixed point-to-point AP		
			☐	Mobile and Portable Client		
	☒	5250MHz~5350MHz				
	☒	5470MHz~5725MHz	☒	With TDWR Channels		
			☐	Without TDWR Channels		
	☒	5725MHz~5850MHz				

Note:

1. The product AP305CX adds 4 antennas based on the Dekra report: 1962097R-RF-US-P09V01. There are 3 antennas of the same type but different gains, and 1 separate Sector antenna. We evaluate the antenna with the largest antenna gain and the Sector antenna. The conducted power is less than the original reported power. We only evaluated the Output power, Band Edge, Emissions in restricted frequency bands, and Power Spectral Density to meet the consistency.
2. The device contains two 5GHz modules, and called Radio 0 and Radio 1, Radio 1 can work separately and Radio 0 can only transmit with Radio 1 which at 5150~5350MHz and Radio 1 work at 5470~5850MHz. So Radio 1 test all the frequency bands and Radio 0 only test 5150~5350MHz.

1.2. Antenna information

ML-2452-PTA2M2-036:

Antenna Model No.	N/A						
Antenna Manufacturer	N/A						
Antenna Delivery	☒	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna Technology	☒	SISO					
	☒	MIMO	☐	Basic methodology			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☒	Spatial Multiplexing			
			☒	Cyclic Delay Diversity (CDD)			
Antenna Type	OMNI						
Categorization	Correlated						
Antenna Gain							
Antenna Technology				Ant Gain (Radio 0) (dBi)			
☒	SISO	☒	Ant1	5			
		☒	Ant2	5			
☒	CDD			5dBi for Power; 8.01dBi for PSD			
☒	Beam-forming			8.01dBi for Power; 8.01dBi for PSD			
Antenna Technology				Ant Gain (Radio 1) (dBi)			
☒	SISO	☒	Ant3	5			
		☒	Ant4	5			
☒	CDD			5dBi for Power; 8.01dBi for PSD			
☒	Beam-forming			8.01dBi for Power; 8.01dBi for PSD			

ML-2452-PTA4M4-036:

Antenna Model No.	N/A					
Antenna Manufacturer	N/A					
Antenna Delivery	☒	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX
Antenna Technology	☒	SISO				
	☒	MIMO	☐	Basic methodology		
			☐	Sectorized antenna systems		
			☐	Cross-polarized antennas		
			☐	Unequal antenna gains, with equal transmit powers		
			☒	Spatial Multiplexing		
			☒	Cyclic Delay Diversity (CDD)		
Antenna Type	OMNI					
Categorization	Correlated					
Antenna Gain						
Antenna Technology			Ant Gain (Radio 0) (dBi)			
☒	SISO	☒	Ant1	6.6		
		☒	Ant2	6.6		
☒	CDD			6.6dBi for Power; 9.61dBi for PSD		
☒	Beam-forming			9.61dBi for Power; 9.61dBi for PSD		
Antenna Technology			Ant Gain (Radio 1) (dBi)			
☒	SISO	☒	Ant3	6.6		
		☒	Ant4	6.6		
☒	CDD			6.6dBi for Power; 9.61dBi for PSD		
☒	Beam-forming			9.61dBi for Power; 9.61dBi for PSD		

AI-DQ04360S:

Antenna Model No.	N/A						
Antenna Manufacturer	N/A						
Antenna Delivery	☒	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna Technology	☒	SISO					
	☒	MIMO	☐	Basic methodology			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☒	Spatial Multiplexing			
			☒	Cyclic Delay Diversity (CDD)			
Antenna Type	OMNI						
Categorization	Correlated						
Max elevation gain	0dBi						

Antenna Gain

Antenna Technology				Ant Gain (Radio 0) (dBi)
☒	SISO	☒	Ant1	6
		☒	Ant2	6
☒	CDD			6dBi for Power; 9.01dBi for PSD
☒	Beam-forming			9.01dBi for Power; 9.01dBi for PSD

Antenna Technology				Ant Gain (Radio 1) (dBi)
☒	SISO	☒	Ant3	6
		☒	Ant4	6
☒	CDD			6dBi for Power; 9.01dBi for PSD
☒	Beam-forming			9.01dBi for Power; 9.01dBi for PSD

ML-2452-SEC6M4-036:

Antenna Model No.	N/A						
Antenna Manufacturer	N/A						
Antenna Delivery	☒	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna Technology	☒	SISO					
	☒	MIMO	☐	Basic methodology			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☒	Spatial Multiplexing			
			☒	Cyclic Delay Diversity (CDD)			
Antenna Type	Sector						
Categorization	Correlated						
Max elevation gain	3dBi						

Antenna Gain

Antenna Technology			Ant Gain (Radio 0) (dBi)
☒	SISO	☒ Ant1	7.2
		☒ Ant2	7.2
☒	CDD		7.2dBi for Power; 10.21dBi for PSD
☒	Beam-forming		10.21dBi for Power; 10.21dBi for PSD

Antenna Technology			Ant Gain (Radio 1) (dBi)
☒	SISO	☒ Ant3	7.2
		☒ Ant4	7.2
☒	CDD		7.2dBi for Power; 10.21dBi for PSD
☒	Beam-forming		10.21dBi for Power; 10.21dBi for PSD

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

1.4. Mode of Operation

DEKRA Testing and Certification (Suzhou) Co., Ltd. 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
Mode 2: Transmit by 802.11n(20MHz)
Mode 3: Transmit by 802.11n(40MHz)
Mode 4: Transmit by 802.11ac(20MHz)
Mode 5: Transmit by 802.11ac(40MHz)
Mode 6: Transmit by 802.11ac(80MHz)
Mode 7: Transmit by 802.11ax(20MHz)
Mode 8: Transmit by 802.11ax(40MHz)
Mode 9: Transmit by 802.11ax(80MHz)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency 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.

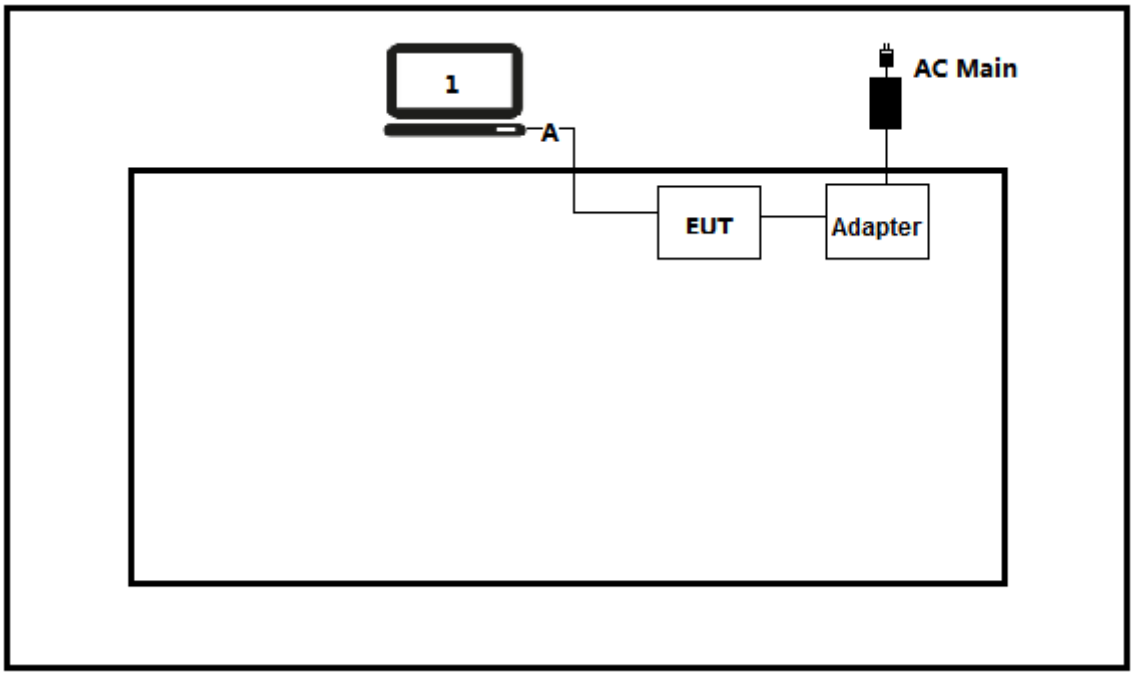
1.5. Tested System Details

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

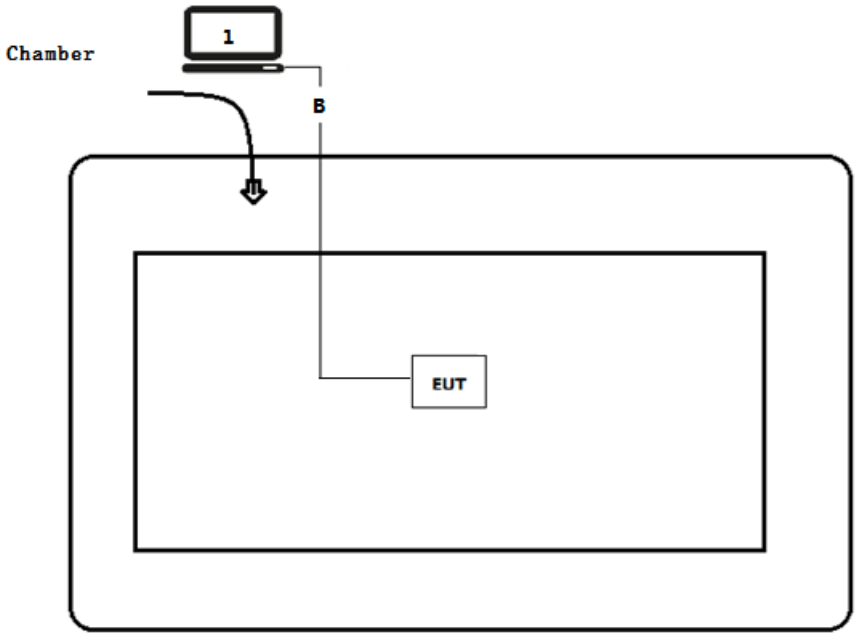
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	WLAN cable	N/A	N/A	N/A	Shielded, 0.5m
B	WLAN cable	N/A	N/A	N/A	Shielded, 10m

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], 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: Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.209	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(g)	±20ppm	N/A

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

2.3. 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

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

2: The EUT supports two 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	N/A	N/A	360.0	400.0	780.0	866.6

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

2: The EUT supports two 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 GI	800 ns GI	1600 ns GI	800 ns GI	1600 ns GI	800 ns GI	1600 ns GI	800 ns 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

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

2: The EUT supports two spatial streams.

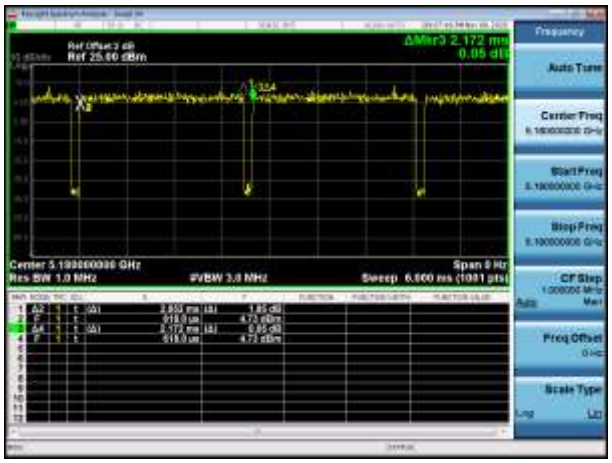
2.4. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW(KHz)	Tx On + Tx Off (ms)	Duty Cycle (%)
802.11a	2.052	0.120	0.487	2.172	94.48
802.11n(20MHz)	1.914	0.108	0.522	2.022	94.66
802.11n(40MHz)	0.915	0.135	1.093	1.05	87.14
802.11ac(20MHz)	1.914	0.042	0.522	1.956	97.85
802.11ac(40MHz)	0.910	0.070	1.099	0.98	92.86
802.11ac(80MHz)	0.426	0.064	2.347	0.49	86.94
802.11ax(20MHz)	1.470	0.048	0.680	1.518	96.84
802.11ax(40MHz)	0.745	0.065	1.342	0.81	91.98
802.11ax(80MHz)	0.376	0.068	2.660	0.444	84.68

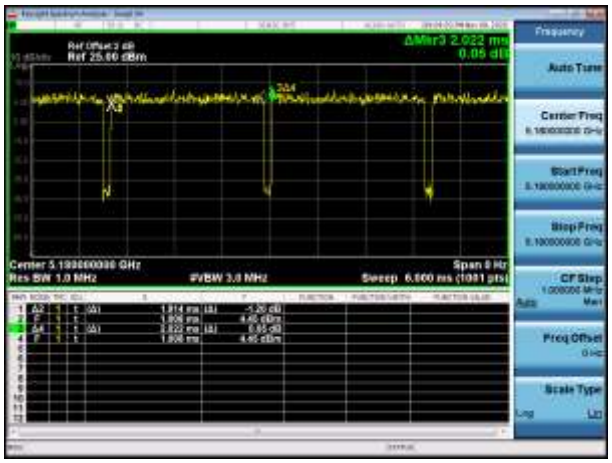
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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

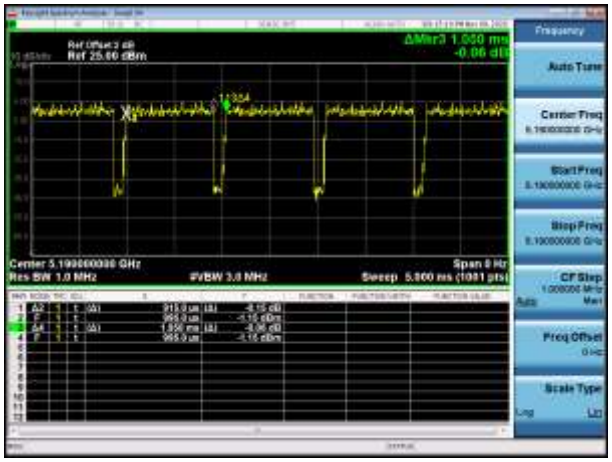
802.11a



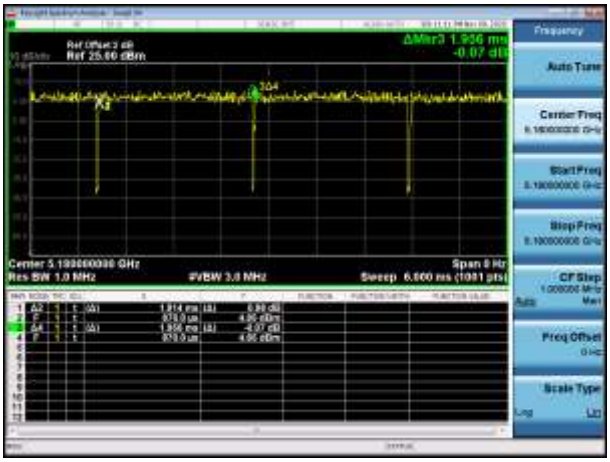
802.11n(20MHz)



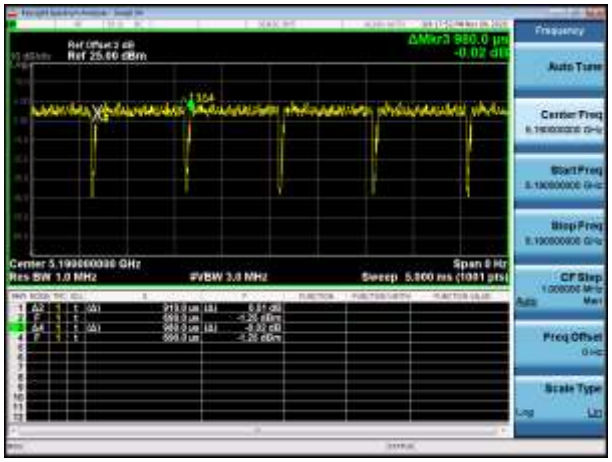
802.11n(40MHz)



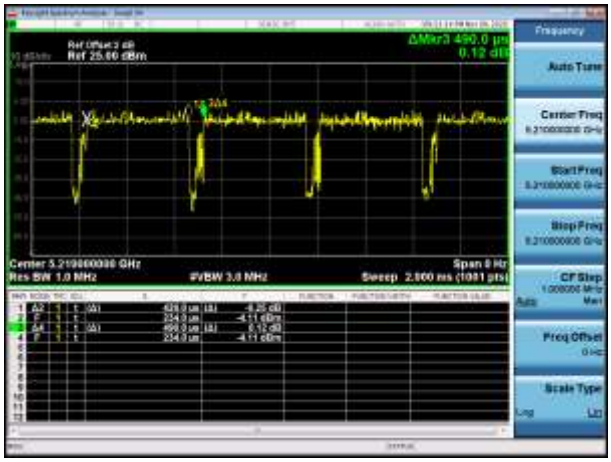
802.11ac(20MHz)



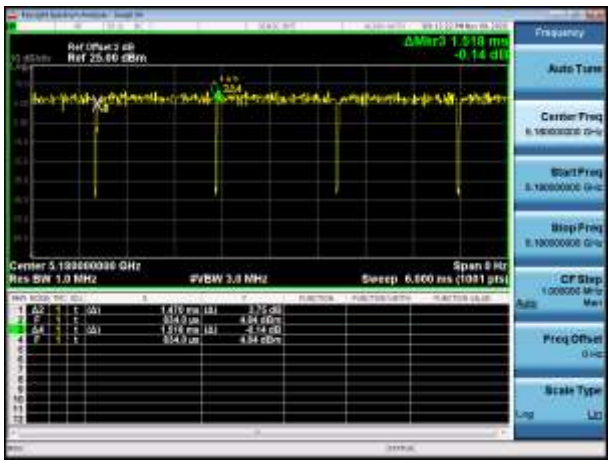
802.11ac(40MHz)



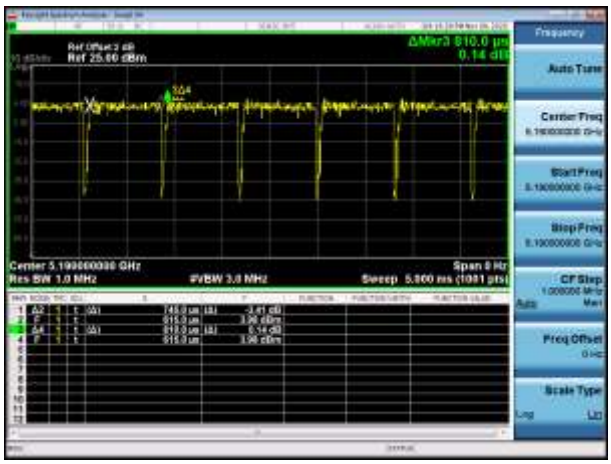
802.11ac(80MHz)



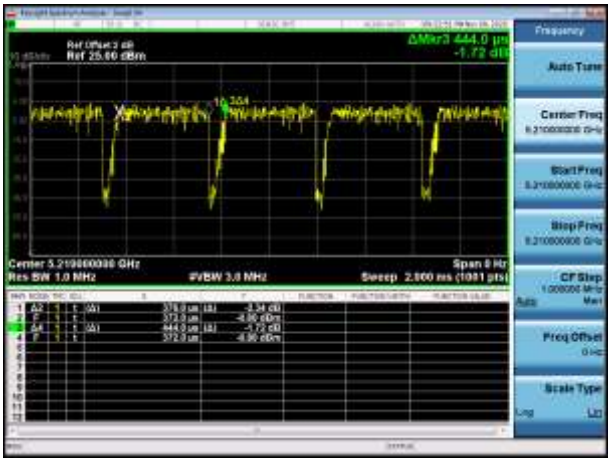
802.11ax(20MHz)



802.11ax(40MHz)



802.11ax(80MHz)



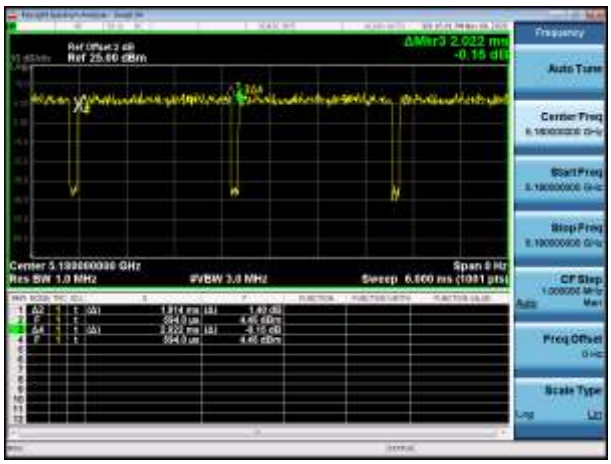
Beam-forming:

Test Mode	Tx On (ms)	Tx Off (ms)	VBW(KHz)	Tx On + Tx Off (ms)	Duty Cycle (%)
802.11n(20MHz)	1.914	0.108	0.522	2.022	94.66
802.11n(40MHz)	0.915	0.135	1.093	1.050	87.14
802.11ac(20MHz)	1.92	0.036	0.521	1.956	98.16
802.11ac(40MHz)	0.915	0.065	1.093	0.98	93.37
802.11ac(80MHz)	0.424	0.068	2.358	0.492	86.18
802.11ax(20MHz)	1.476	0.042	0.678	1.518	97.23
802.11ax(40MHz)	0.745	0.065	1.342	0.810	91.98
802.11ax(80MHz)	0.376	0.068	2.660	0.444	84.68

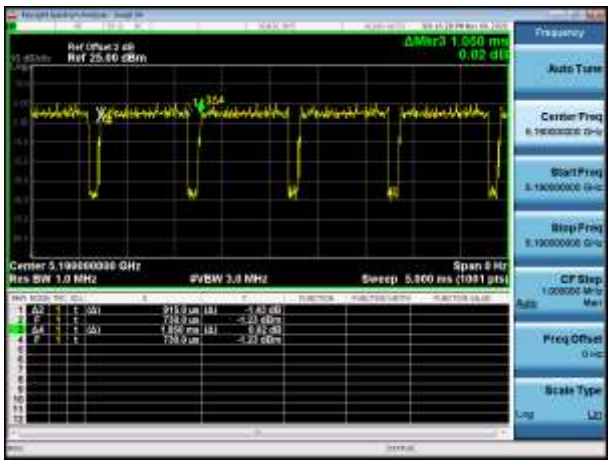
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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

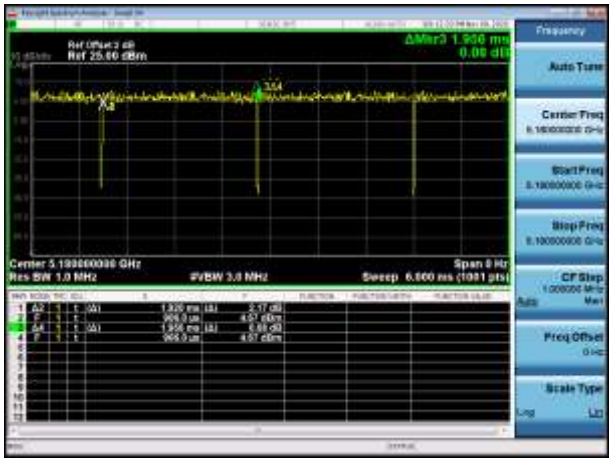
802.11n(20MHz)



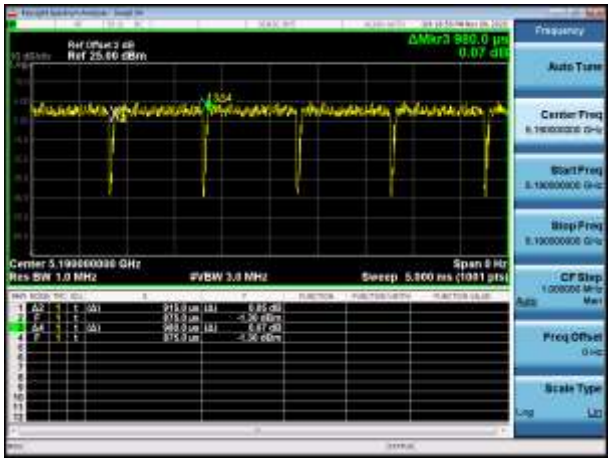
802.11n(40MHz)



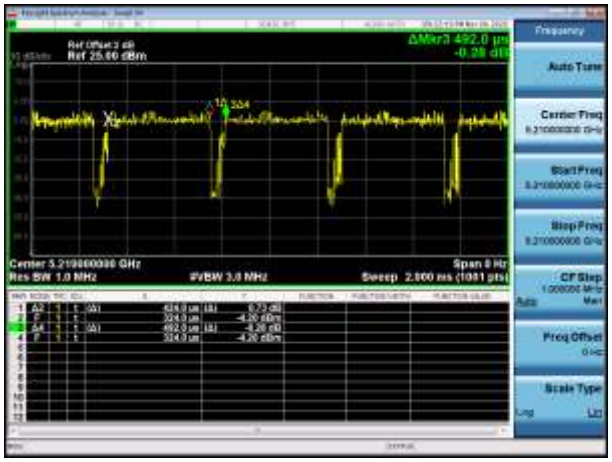
802.11ac(20MHz)



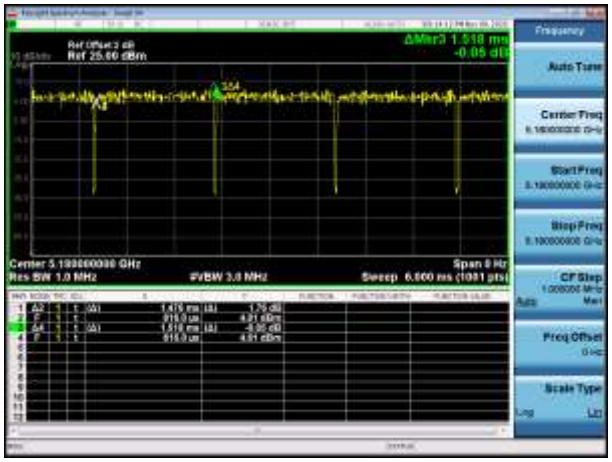
802.11ac(40MHz)



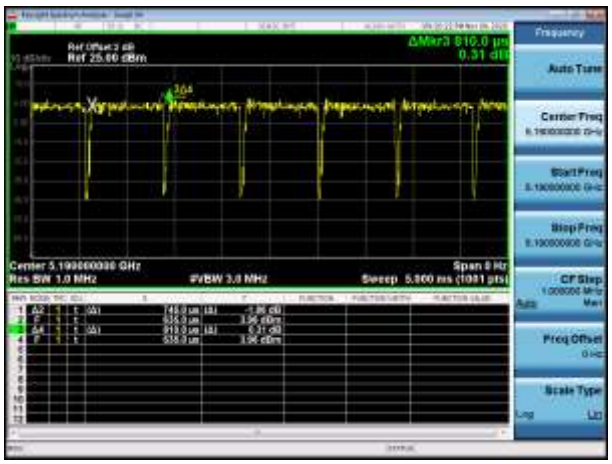
802.11ac(80MHz)



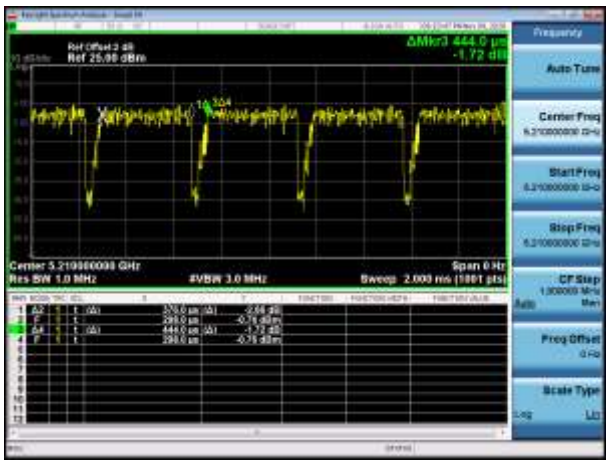
802.11ax(20MHz)



802.11ax(40MHz)



802.11ax(80MHz)



2.5. 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

2.6. Uncertainty

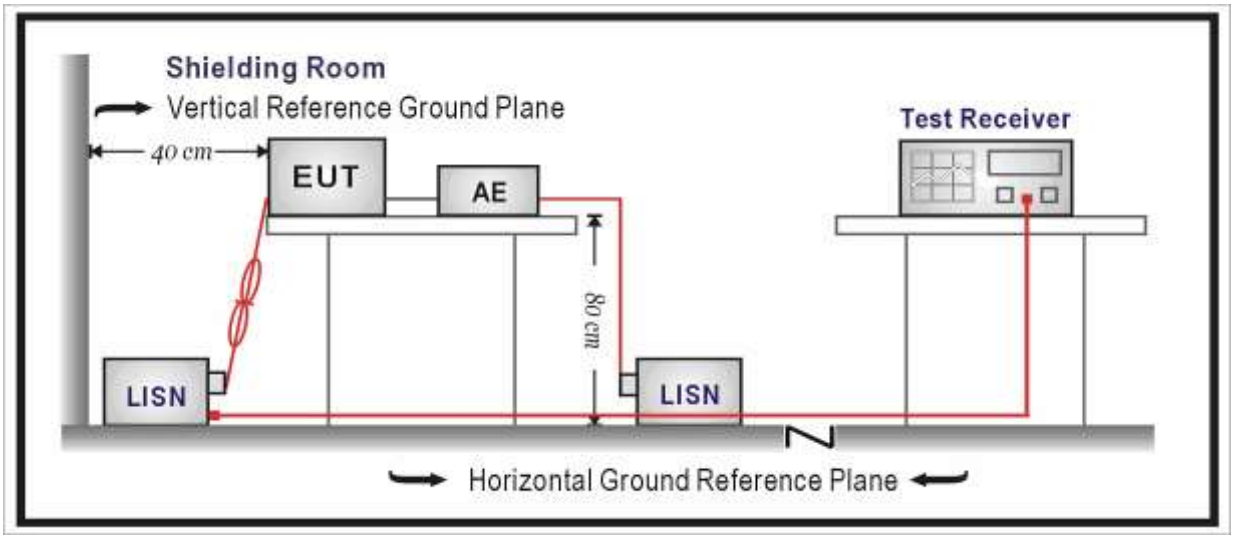
Test Items	Uncertainty
AC Power Line Conducted Emission	±2.02dB
Radiated Emission	Below 1GHz ±3.8 dB
	Above 1GHz ±3.9 dB
RF Antenna Port Conducted Emission	±1.27dB
Radiated Emission Band Edge	±3.9dB
Occupied Bandwidth	±1kHz
Power Spectral Density	±1.27dB
Frequency Stability	±100 Hz

3. Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2020.11.03	2021.11.02
Two-Line V-Network	R&S	ENV 216	101189	2020.08.15	2021.08.14
Two-Line V-Network	R&S	ENV 216	101044	2020.04.18	2021.04.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081403	2020.09.23	2021.09.22
Temperature/Humidity Meter	zhichen	ZC1-2	TR1-TH	2020.08.13	2021.08.12
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

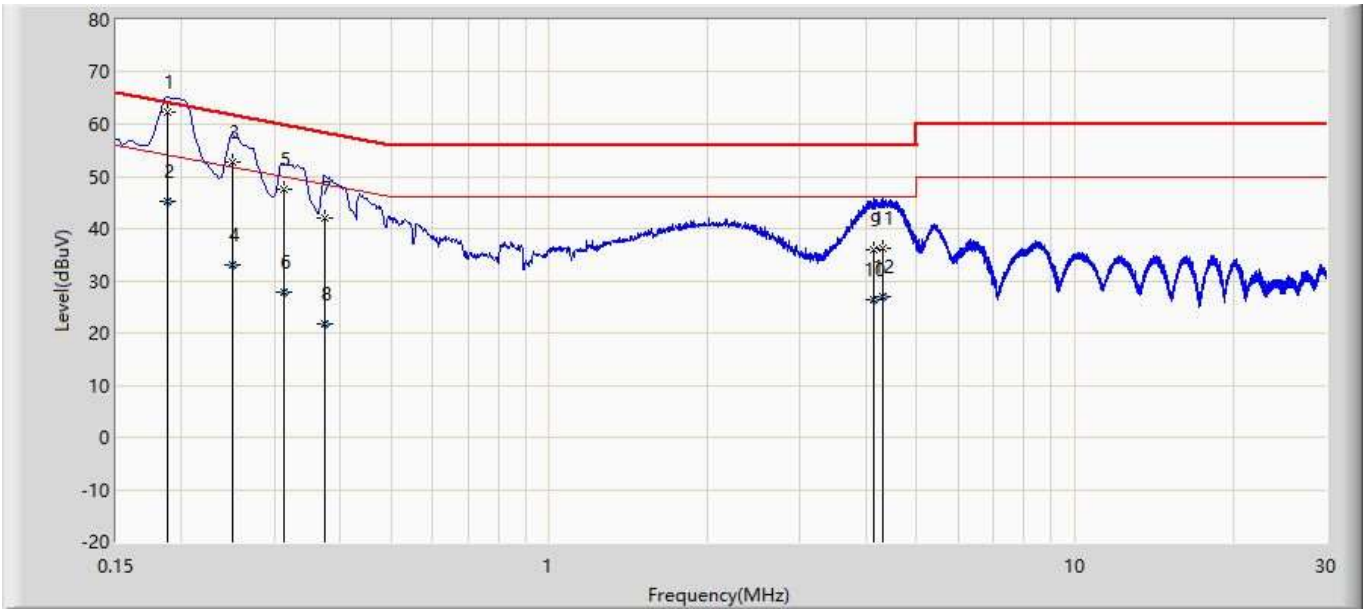
Frequency (MHz)	QP (dBµV)	AV (dBµV)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

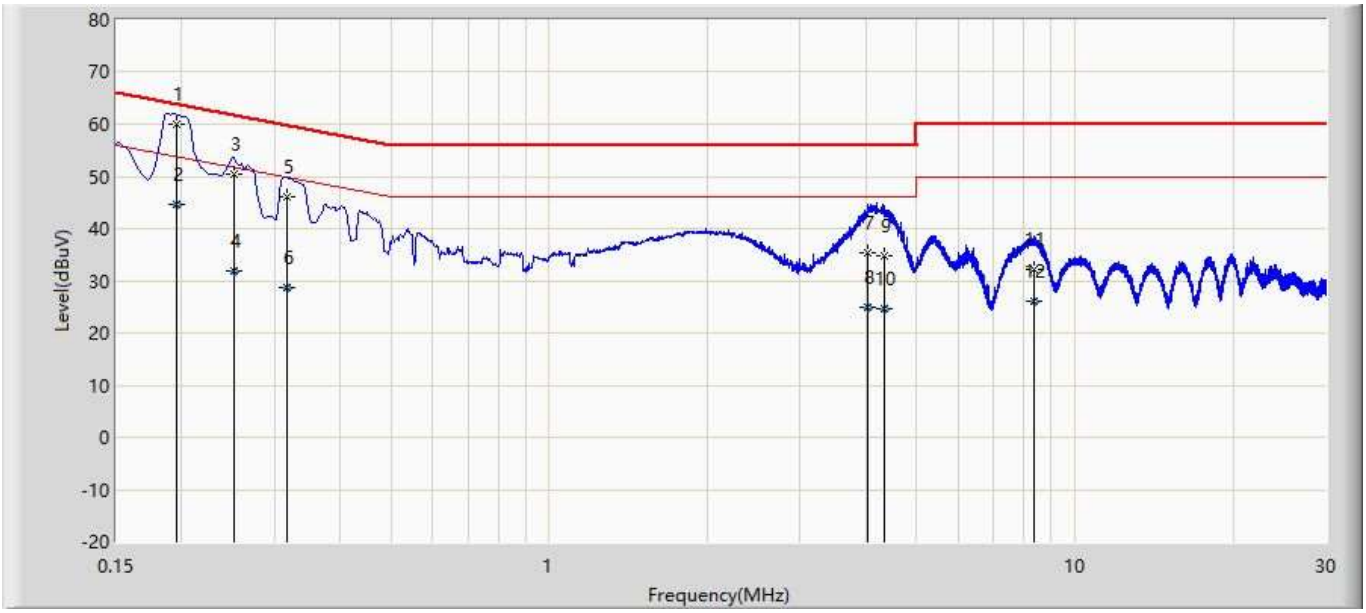
3.5. Test Result

Profile: 20A0241R	Page No.: 1
Engineer: Jun	
Site: TR1	Time: 2020/07/03 - 01:51
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	0.188	62.300	52.621	-1.813	64.113	9.680	0	0	QP
2		0.188	45.307	35.628	-8.806	54.113	9.680	0	0	AV
3		0.249	52.800	43.089	-8.991	61.790	9.711	0	0	QP
4		0.249	32.971	23.260	-18.819	51.790	9.711	0	0	AV
5		0.312	47.642	37.899	-12.275	59.917	9.743	0	0	QP
6		0.312	27.878	18.136	-22.039	49.917	9.743	0	0	AV
7		0.375	41.900	32.127	-16.489	58.389	9.773	0	0	QP
8		0.375	21.846	12.073	-26.544	48.389	9.773	0	0	AV
9		4.135	35.976	25.861	-20.024	56.000	10.115	0	0	QP
10		4.135	26.434	16.319	-19.566	46.000	10.115	0	0	AV
11		4.303	36.334	26.214	-19.666	56.000	10.119	0	0	QP
12		4.303	27.030	16.910	-18.970	46.000	10.119	0	0	AV

Profile: 20A0241R	Page No.: 2
Engineer: Jun	
Site: TR1	Time: 2020/12/02 - 21:11
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	0.195	59.950	50.187	-3.871	63.821	9.763	0	0	QP
2		0.195	44.760	34.997	-9.061	53.821	9.763	0	0	AV
3		0.251	50.491	40.710	-11.225	61.716	9.780	0	0	QP
4		0.251	31.819	22.038	-19.896	51.716	9.780	0	0	AV
5		0.317	46.171	36.372	-13.627	59.798	9.799	0	0	QP
6		0.317	28.791	18.993	-21.007	49.798	9.799	0	0	AV
7		4.040	35.360	25.338	-20.640	56.000	10.022	0	0	QP
8		4.040	25.027	15.005	-20.973	46.000	10.022	0	0	AV
9		4.330	34.888	24.857	-21.112	56.000	10.032	0	0	QP
10		4.330	24.679	14.648	-21.321	46.000	10.032	0	0	AV
11		8.347	32.109	21.924	-27.891	60.000	10.185	0	0	QP
12		8.347	26.045	15.860	-23.955	50.000	10.185	0	0	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

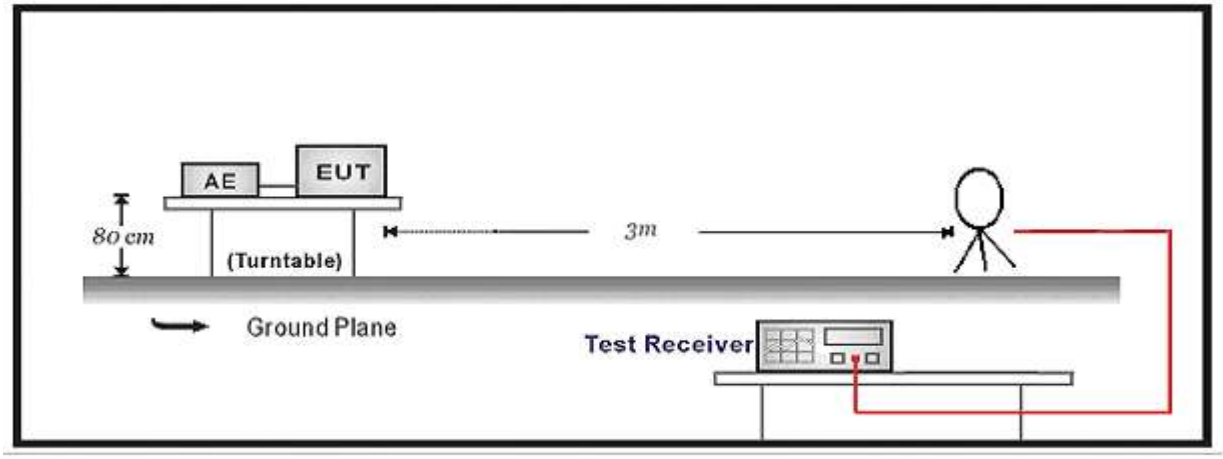
4. Radiated Emission

4.1. Test Equipment

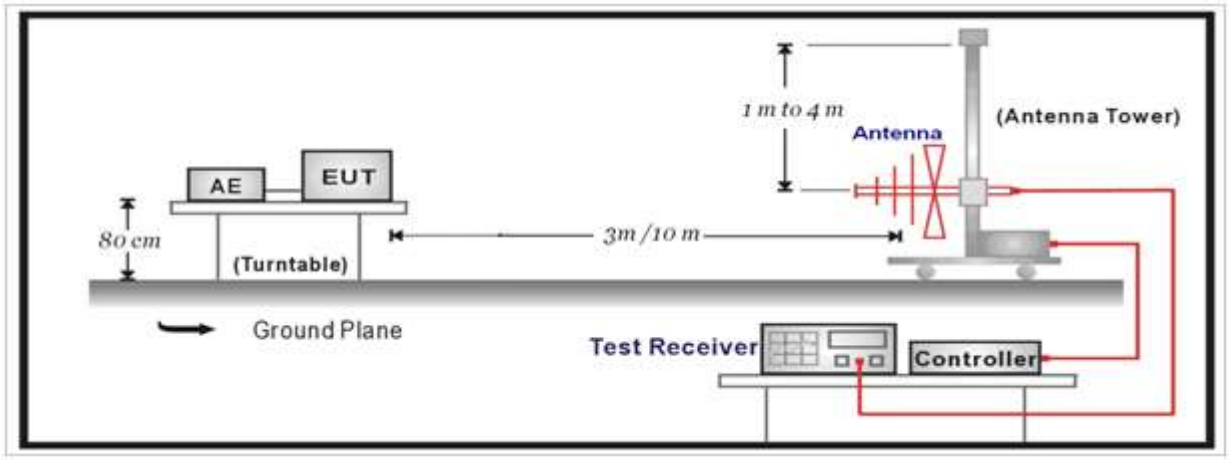
Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2019.12.28	2020.12.27
Loop Antenna	R&S	HFH2-Z2	833799/003	2020.02.17	2021.02.16
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2020.09.23	2021.09.22
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2020.04.05	2021.04.04
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2020.08.13	2021.08.12
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2020.01.02	2021.01.01
Preamplifier	Miteq	NSP1800-25	1364185	2020.05.03	2021.05.02
Preamplifier	QuieTek	AP-040G	CHM-0906001	2020.05.03	2021.05.02
DRG Horn	ETS-Lindgren	3117	00123988	2020.09.21	2021.09.20
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2020.03.23	2021.03.22
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.04.05	2021.04.04
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2020.04.18	2021.04.17
EMI Receiver	Agilent	N9038A	MY51210196	2020.04.18	2021.04.17
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2020.08.13	2021.08.12
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

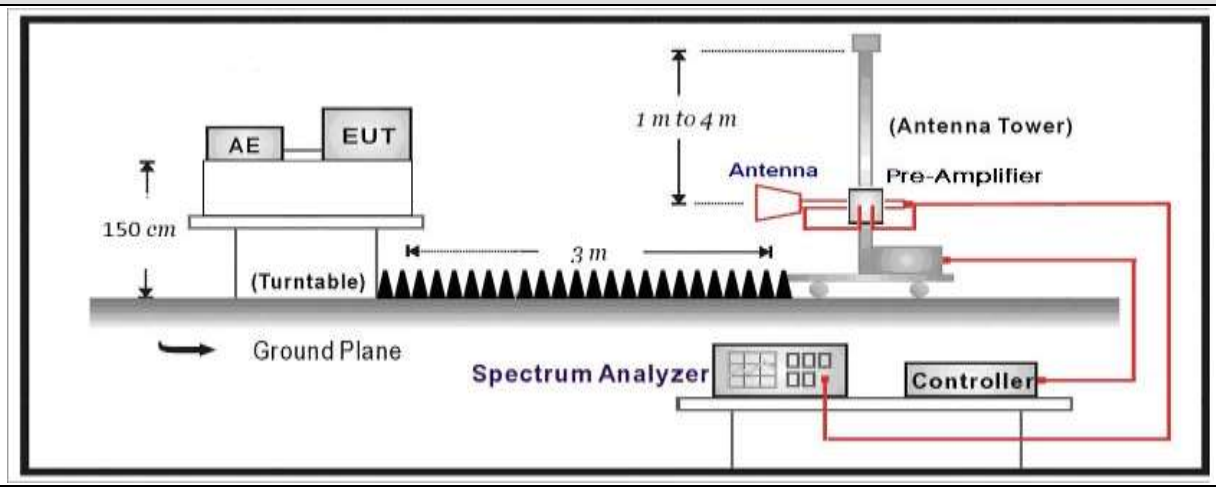
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



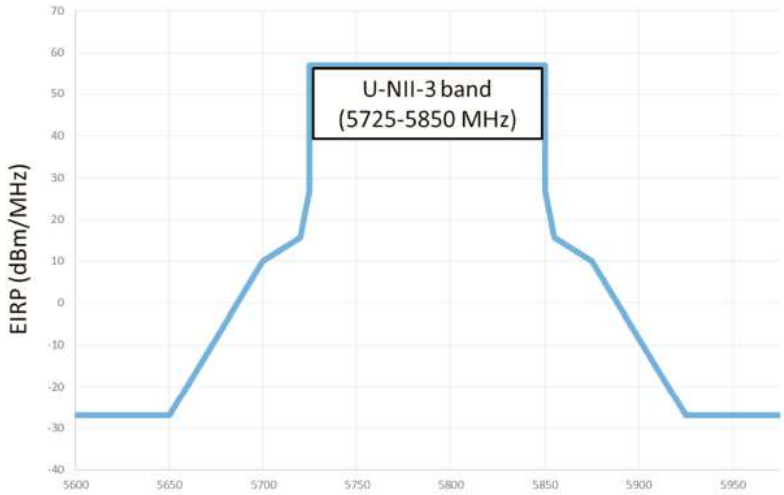
4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dBµV/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).

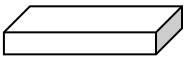
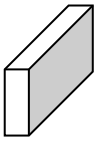
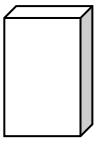
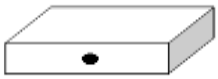
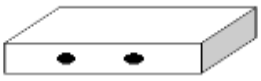
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	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			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBµV/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		

4.4. Test Procedure

Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
		☐ ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
		☒ ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v02r01		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐ FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
		☐ FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">Radiated Emission</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☒</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Worst Axis ☒</td><td>Worst Axis ☐</td><td colspan="2">Worst Axis ☐</td></tr>
<tr><td>☐</td><td colspan="4">Conducted</td></tr>
<tr><td>☐</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="3">Chain 2</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
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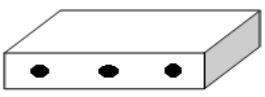
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td><td>Chain 4</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
</table>

4.6. Test Result

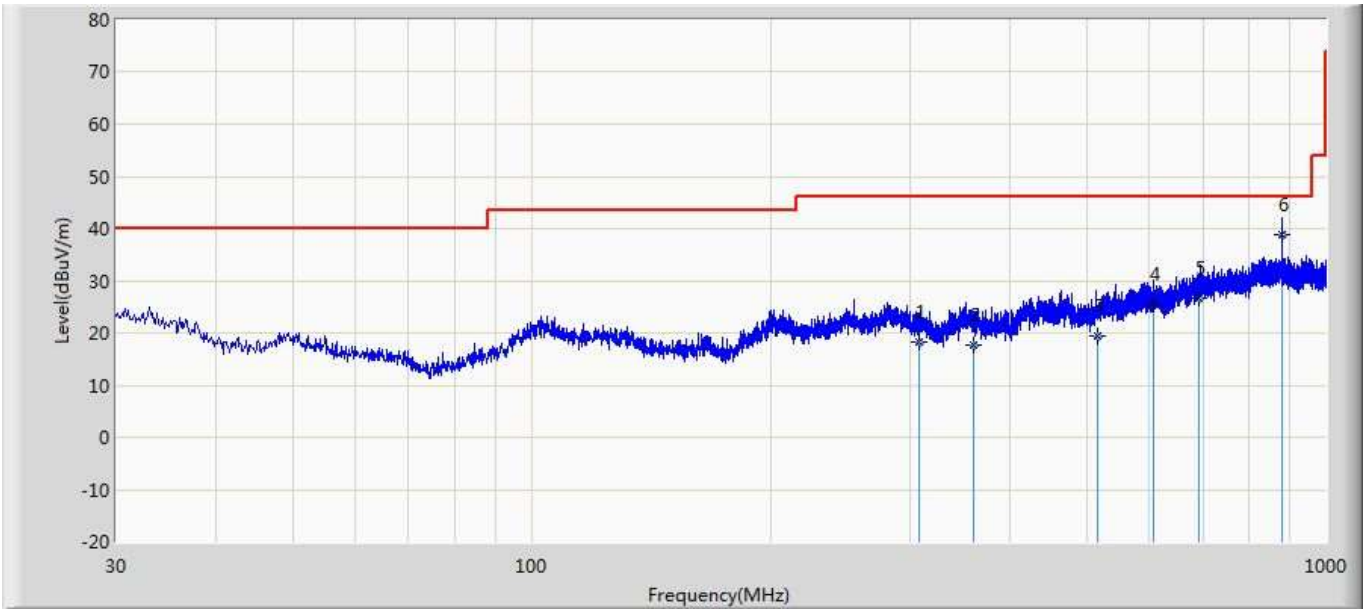
Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.
5. The data was too large so was showed in below attached files.

Appendix 1: AP305CX-Radio 0 RSE OMNI Antenna
Appendix 2: AP305CX-Radio 1 RSE OMNI Antenna
Appendix 3: AP305CX-Radio 0 RSE Sector Antenna
Appendix 4: AP305CX-Radio 1 RSE Sector Antenna

The worst case of Radiated Emission below 1GHz:

Profile: 20A0241R	Page No.: 9
Engineer: Jun	
Site: AC2	Time: 2020/12/02 - 19:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 1	

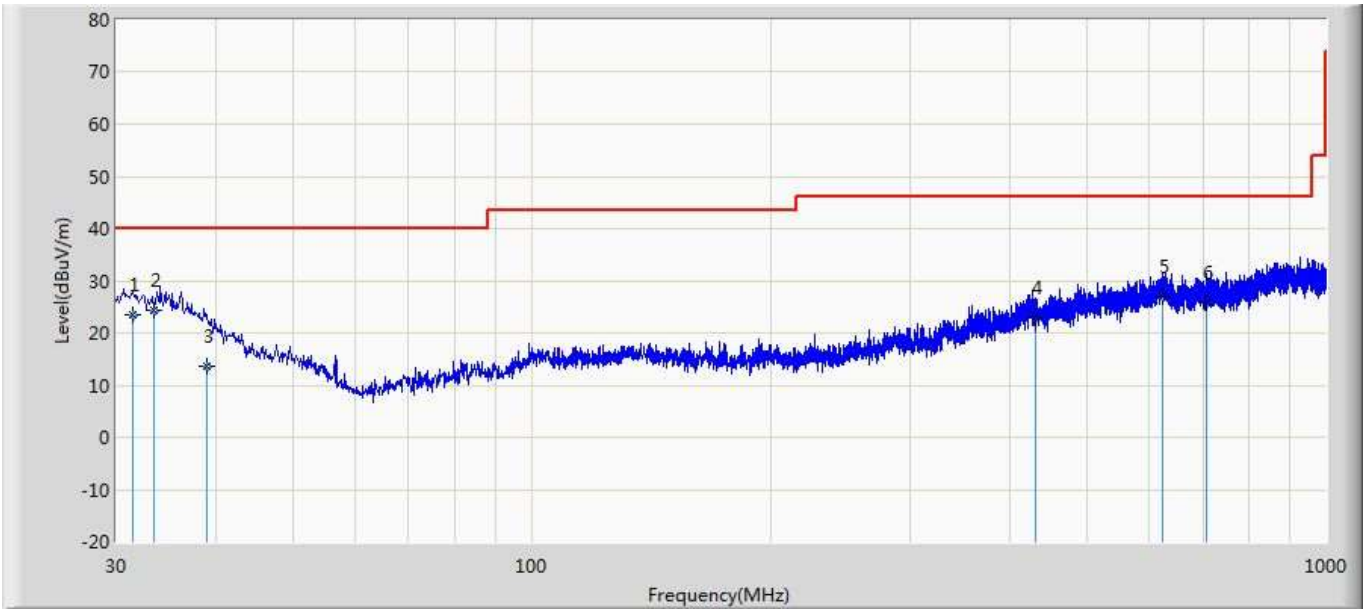


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		307.520	18.287	-5.852	-27.713	46.000	24.139	100	152	QP
2		360.422	17.711	-6.750	-28.289	46.000	24.461	110	152	QP
3		515.520	19.293	-6.820	-26.707	46.000	26.113	100	74	QP
4		607.852	25.515	-2.471	-20.485	46.000	27.986	100	42	QP
5		691.820	26.770	-3.400	-19.230	46.000	30.170	100	85	QP
6	*	880.740	38.875	5.525	-7.125	46.000	33.350	100	93	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 20A0241R	Page No.: 10
Engineer: Jun	
Site: AC2	Time: 2020/12/02 - 19:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 1	



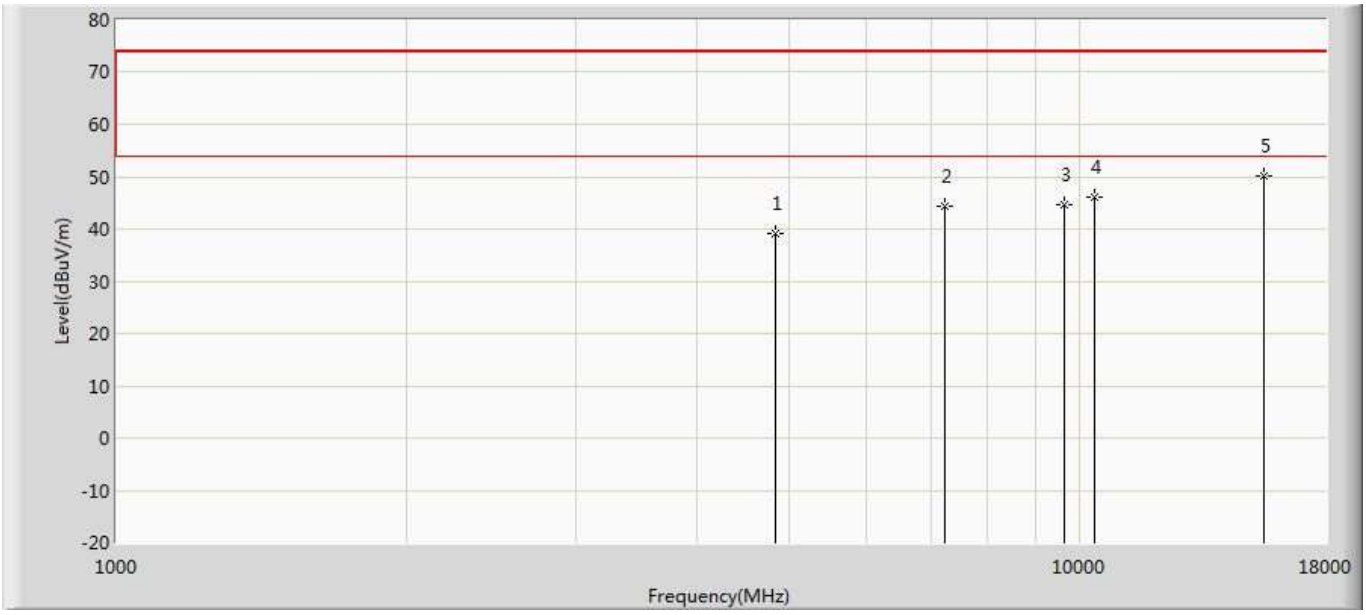
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.500	23.618	-3.520	-16.382	40.000	27.137	100	42	QP
2	*	33.520	24.234	-2.800	-15.766	40.000	27.034	100	54	QP
3		38.960	13.676	-9.520	-26.324	40.000	23.196	100	42	QP
4		431.520	22.791	-3.520	-23.209	46.000	26.310	100	142	QP
5		623.520	26.967	-3.630	-19.033	46.000	30.597	100	152	QP
6		708.850	25.781	-3.520	-20.219	46.000	29.301	100	41	QP

Note:

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

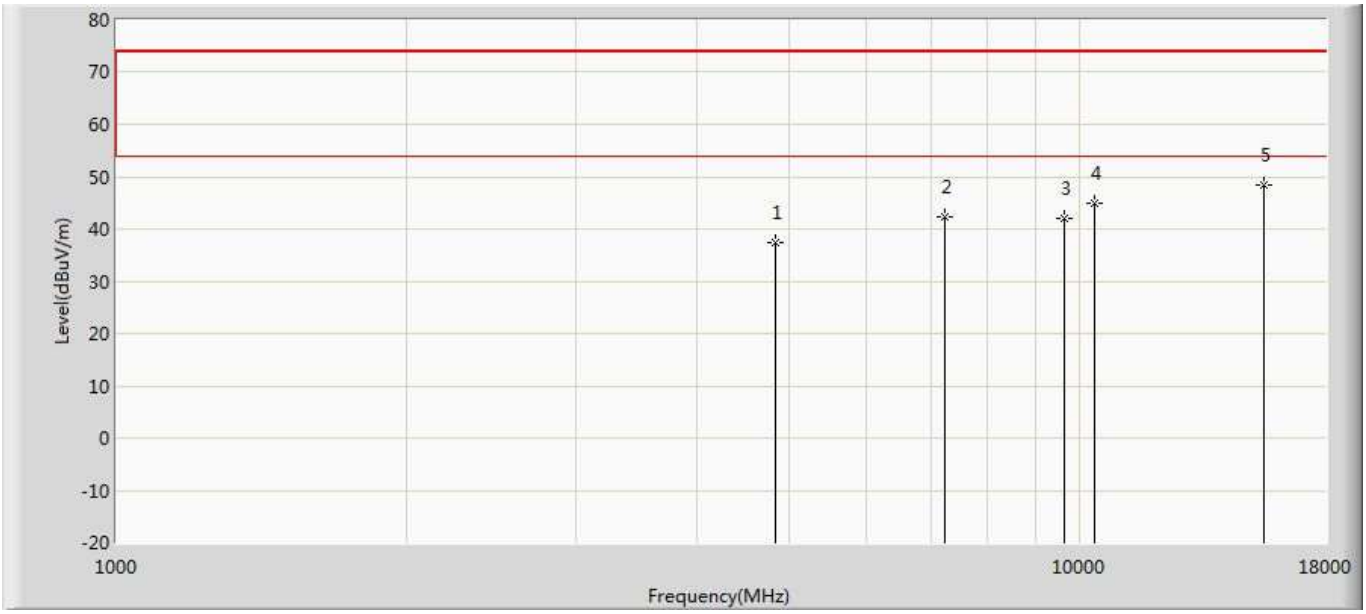
The worst case of Simultaneous Radiated Emission:

Profile: 20A2041R	Page No.: 5
Engineer: Jun	
Site: AC5	Time: 2020/12/02 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AP305CX	Power: AC 120V/60Hz
Note: Mode 1:Transmint at 5180MHz by 802.11a ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.098	44.994	-34.902	74.000	-5.896	PK
2		7236.000	44.314	47.271	-29.686	74.000	-2.957	PK
3		9648.000	44.620	46.115	-29.380	74.000	-1.495	PK
4		10360.000	46.066	45.205	-27.934	74.000	0.860	PK
5	*	15540.000	50.142	43.504	-23.858	74.000	6.637	PK

Profile: 20A2041R	Page No.: 6
Engineer: Jun	
Site: AC5	Time: 2020/12/02 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AP305CX	Power: AC 120V/60Hz
Note: Mode 1:Transmint at 5180MHz by 802.11a ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	37.527	43.423	-36.473	74.000	-5.896	PK
2		7236.000	42.387	45.344	-31.613	74.000	-2.957	PK
3		9648.000	42.156	43.651	-31.844	74.000	-1.495	PK
4		10360.000	44.939	44.078	-29.061	74.000	0.860	PK
5	*	15540.000	48.425	41.787	-25.575	74.000	6.637	PK

Note:

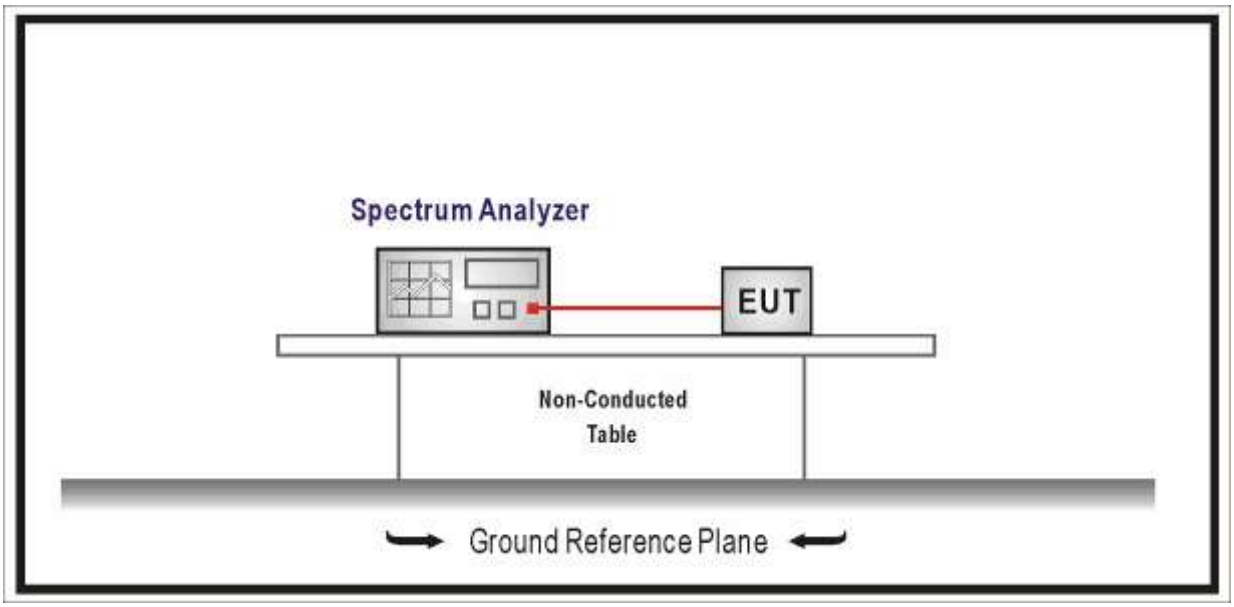
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).
3. We have evaluated both CDD and Beamforming mode, shown in the report is the worst data.
4. We have evaluated all modes, channels, bandwidths and different antennas, shown in the report is the worst data.

5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup



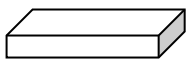
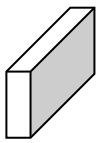
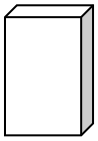
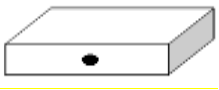
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Occupied bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td><td>Chain 4</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

N/A

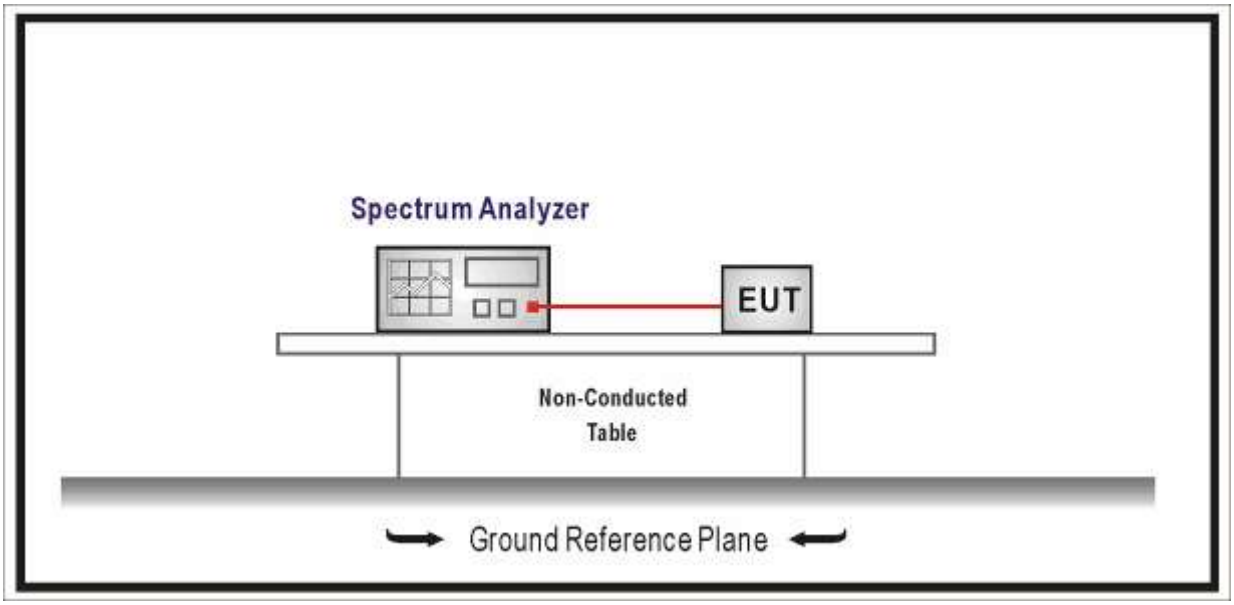
6. 6dB bandwidth

6.1. Test Equipment

6dB bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup



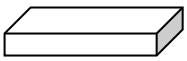
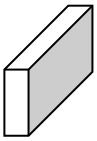
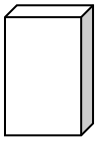
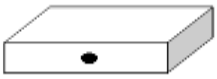
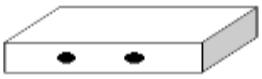
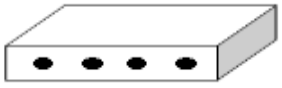
6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">6dB bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td colspan="2">Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="4">Conducted</td></tr>
<tr><td>☒</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☒</td><td>Chain 1</td><td colspan="3">Chain 2</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td colspan="2">Chain 3</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td><td>Chain 4</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
</table>

6.6. Test Result

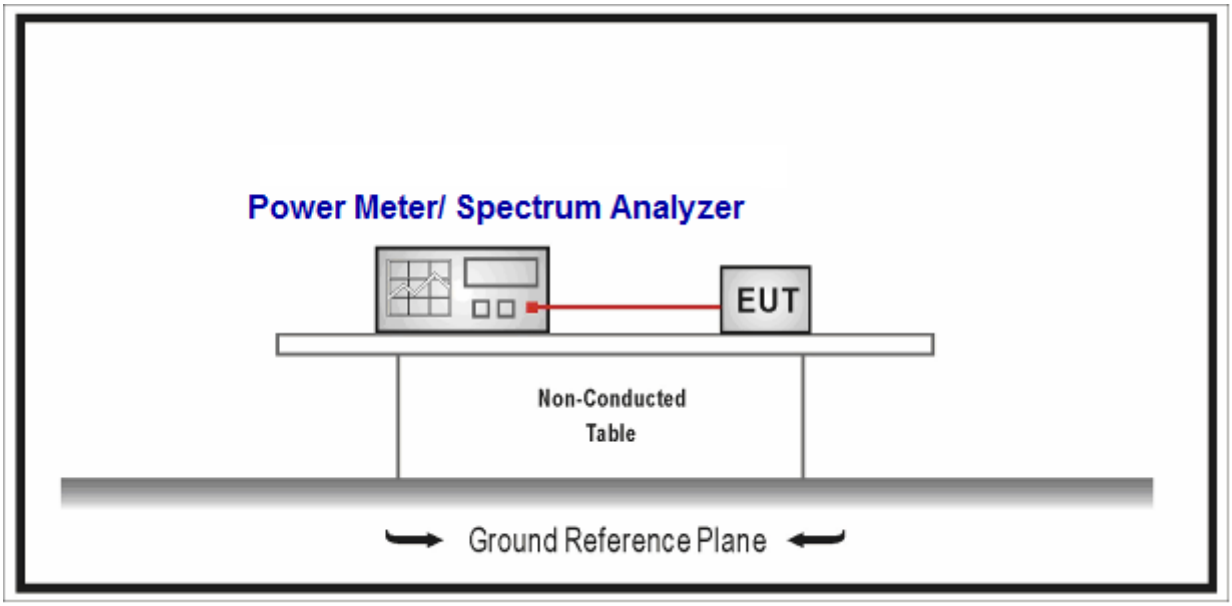
N/A

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	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
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

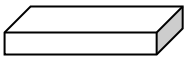
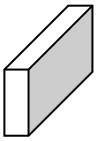
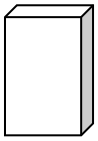
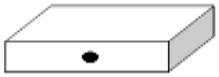
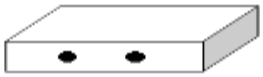
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX} ＞6dBi, then Pout≤30 - (G_{TX} - 6) and ≤125mW at any angle above 30 degrees
	☒	Indoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX} ＞6dBi, then Pout≤30 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞23dBi, then Pout≤30 - (G_{TX} - 23)
	☐	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If G_{TX}＞6dBi, then Pout≤24 - (G_{TX} - 6)
☒	For the band 5.25-5.35 GHz:	
	☒	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX} ＞ 6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (GTX - 6)
☒	For the 5.47-5.725 GHz:	
	☒	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX}＞6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	☐	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
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	ANSI C63.10	12.3.2.2	Method SA-1
		☐	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒	ANSI C63.10	12.3.2.4	Method SA-2
		☐	ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		☐	ANSI C63.10	12.3.2.6	Method SA-3
		☐	ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10		12.3.3	Maximum conducted output power using a power meter
		☐	ANSI C63.10	12.3.3.1	Method PM
		☒	ANSI C63.10	12.3.3.2	Method PM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☒	KDB 662911		F2)e)	Spatial stream
	☐	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
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	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

7.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">output power</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td colspan="2">Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="4">Conducted</td></tr>
<tr><td>☒</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☒</td><td>Chain 1</td><td colspan="3">Chain 2</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td colspan="2">Chain 3</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td><td>Chain 4</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
</table>

7.6. Test Result

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~9	Test Site	:	TR8
Test Date	:	2020.11.30	Test Engineer	:	Jun
Antenna	:	OMNI Antenna			

Radio 0:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.94	17.38	16.94	17.38	29.40	Pass
CH40	5200	18.19	18.20	18.19	18.20	29.40	Pass
CH44	5220	18.26	18.28	18.26	18.28	29.40	Pass
CH48	5240	18.21	18.08	18.21	18.08	29.40	Pass
CH52	5260	18.67	18.13	18.67	18.13	23.40	Pass
CH60	5300	18.80	18.36	18.80	18.36	23.40	Pass
CH64	5320	17.92	18.24	17.92	18.24	23.40	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	16.14	16.19	19.18	29.40	Pass
CH40	5200	17.29	17.09	20.20	29.40	Pass
CH44	5220	17.32	17.21	20.28	29.40	Pass
CH48	5240	17.19	17.10	20.16	29.40	Pass
CH52	5260	14.66	14.32	17.50	23.40	Pass
CH60	5300	15.03	14.62	17.84	23.40	Pass
CH64	5320	14.67	14.19	17.45	23.40	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.86	16.91	16.86	16.91	29.40	Pass
CH40	5200	18.23	18.05	18.23	18.05	29.40	Pass
CH44	5220	18.35	18.25	18.35	18.25	29.40	Pass
CH48	5240	18.44	18.27	18.44	18.27	29.40	Pass
CH52	5260	18.56	18.21	18.56	18.21	23.40	Pass
CH60	5300	18.91	18.48	18.91	18.48	23.40	Pass
CH64	5320	17.60	18.02	17.60	18.02	23.40	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.84	15.91	18.89	29.40	Pass
CH40	5200	17.00	17.34	20.18	29.40	Pass
CH44	5220	16.89	17.11	20.01	29.40	Pass
CH48	5240	16.83	17.35	20.11	29.40	Pass
CH52	5260	14.60	14.05	17.34	23.40	Pass
CH60	5300	14.97	14.36	17.69	23.40	Pass
CH64	5320	14.51	14.17	17.35	23.40	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.89	14.17	17.04	26.39	Pass
CH40	5200	13.79	13.84	16.83	26.39	Pass
CH44	5220	13.64	14.07	16.87	26.39	Pass
CH48	5240	13.66	14.31	17.01	26.39	Pass
CH52	5260	13.42	13.27	16.36	20.39	Pass
CH60	5300	13.95	13.39	16.69	20.39	Pass
CH64	5320	13.35	13.13	16.25	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 3: Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.32	14.45	14.32	14.45	29.4	Pass
CH46	5230	18.46	17.82	18.46	17.82	29.4	Pass
CH54	5270	18.80	18.50	18.80	18.50	23.4	Pass
CH62	5310	15.02	14.80	15.02	14.80	23.4	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.91	14.19	17.06	29.40	Pass
CH46	5230	17.56	17.16	20.37	29.40	Pass
CH54	5270	16.31	15.78	19.06	23.40	Pass
CH62	5310	14.04	14.22	17.14	23.40	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.67	14.13	16.92	26.39	Pass
CH46	5230	13.60	13.91	16.77	26.39	Pass
CH54	5270	13.45	12.78	16.14	20.39	Pass
CH62	5310	12.79	12.27	15.55	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.90	16.94	16.90	16.94	29.4	Pass
CH40	5200	18.45	18.78	18.45	18.78	29.4	Pass
CH44	5220	18.63	18.56	18.63	18.56	29.4	Pass
CH48	5240	18.58	18.50	18.58	18.50	29.4	Pass
CH52	5260	18.69	18.31	18.69	18.31	23.4	Pass
CH60	5300	19.07	18.71	19.07	18.71	23.4	Pass
CH64	5320	17.55	18.04	17.55	18.04	23.4	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.88	16.16	19.03	29.40	Pass
CH40	5200	16.84	17.25	20.06	29.40	Pass
CH44	5220	16.90	17.27	20.10	29.40	Pass
CH48	5240	16.87	17.24	20.07	29.40	Pass
CH52	5260	14.96	14.41	17.70	23.40	Pass
CH60	5300	15.19	14.87	18.04	23.40	Pass
CH64	5320	14.48	14.19	17.35	23.40	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.97	14.07	17.03	26.39	Pass
CH40	5200	13.58	14.16	16.89	26.39	Pass
CH44	5220	13.57	14.23	16.92	26.39	Pass
CH48	5240	13.54	14.30	16.95	26.39	Pass
CH52	5260	13.55	13.15	16.36	20.39	Pass
CH60	5300	13.82	13.40	16.63	20.39	Pass
CH64	5320	13.51	13.02	16.28	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.38	14.62	14.38	14.62	29.4	Pass
CH46	5230	18.00	17.94	18.00	17.94	29.4	Pass
CH54	5270	18.36	19.07	18.36	19.07	23.4	Pass
CH62	5310	15.11	14.66	15.11	14.66	23.4	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.76	14.14	16.96	29.40	Pass
CH46	5230	16.92	17.14	20.04	29.40	Pass
CH54	5270	16.56	15.92	19.26	23.40	Pass
CH62	5310	13.74	13.91	16.84	23.40	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.69	14.18	16.95	26.39	Pass
CH46	5230	13.62	13.92	16.78	26.39	Pass
CH54	5270	13.52	13.25	16.40	20.39	Pass
CH62	5310	13.40	12.84	16.14	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.11	15.73	15.11	15.73	29.4	Pass
CH58	5290	15.07	14.76	15.07	14.76	23.4	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.14	14.41	17.29	29.40	Pass
CH58	5290	14.04	14.50	17.29	23.40	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	13.77	14.07	16.93	26.39	Pass
CH58	5290	13.66	14.04	16.86	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.84	16.76	16.84	16.76	29.4	Pass
CH40	5200	18.25	18.52	18.25	18.52	29.4	Pass
CH44	5220	18.41	18.75	18.41	18.75	29.4	Pass
CH48	5240	18.35	18.80	18.35	18.80	29.4	Pass
CH52	5260	18.92	18.65	18.92	18.65	23.4	Pass
CH60	5300	18.98	18.69	18.98	18.69	23.4	Pass
CH64	5320	17.58	18.07	17.58	18.07	23.4	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.96	16.23	19.11	29.40	Pass
CH40	5200	16.69	17.27	20.00	29.40	Pass
CH44	5220	16.93	17.28	20.12	29.40	Pass
CH48	5240	16.83	17.40	20.13	29.40	Pass
CH52	5260	15.13	14.53	17.85	23.40	Pass
CH60	5300	15.20	14.95	18.09	23.40	Pass
CH64	5320	14.70	14.27	17.50	23.40	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.80	13.86	16.84	26.39	Pass
CH40	5200	13.65	13.98	16.83	26.39	Pass
CH44	5220	13.66	13.98	16.83	26.39	Pass
CH48	5240	13.68	13.98	16.84	26.39	Pass
CH52	5260	13.54	13.00	16.29	20.39	Pass
CH60	5300	13.75	13.46	16.62	20.39	Pass
CH64	5320	13.51	13.14	16.34	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.38	14.55	14.38	14.55	29.4	Pass
CH46	5230	19.13	18.50	19.13	18.50	29.4	Pass
CH54	5270	19.21	18.64	19.21	18.64	23.4	Pass
CH62	5310	15.09	14.79	15.09	14.79	23.4	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.87	14.14	17.02	29.40	Pass
CH46	5230	17.25	17.64	20.46	29.40	Pass
CH54	5270	16.79	16.61	19.71	23.40	Pass
CH62	5310	13.74	13.98	16.87	23.40	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.52	14.16	16.86	26.39	Pass
CH46	5230	13.75	14.01	16.89	26.39	Pass
CH54	5270	13.50	13.26	16.39	20.39	Pass
CH62	5310	13.35	12.80	16.09	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.18	15.61	15.18	15.61	29.4	Pass
CH58	5290	15.06	14.76	15.06	14.76	23.4	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.11	14.48	17.31	29.40	Pass
CH58	5290	14.13	14.54	17.35	23.40	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	13.73	14.02	16.89	26.39	Pass
CH58	5290	13.35	13.88	16.63	20.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Radio 1:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.57	17.11	16.57	17.11	29.4	Pass
CH40	5200	17.98	18.76	17.98	18.76	29.4	Pass
CH44	5220	17.95	18.46	17.95	18.46	29.4	Pass
CH48	5240	18.01	18.47	18.01	18.47	29.4	Pass
CH52	5260	18.16	17.96	18.16	17.96	23.4	Pass
CH60	5300	18.26	18.78	18.26	18.78	23.4	Pass
CH64	5320	17.75	17.52	17.75	17.52	23.4	Pass
CH100	5500	17.68	17.86	17.68	17.86	23.4	Pass
CH116	5580	17.44	17.68	17.44	17.68	23.4	Pass
CH140	5700	17.92	17.79	17.92	17.79	23.4	Pass
CH144	5720	17.85	17.90	17.85	17.90	23.4	Pass
CH149	5745	17.42	16.76	17.42	16.76	29.4	Pass
CH157	5785	17.54	17.87	17.54	17.87	29.4	Pass
CH165	5825	17.98	18.32	17.98	18.32	29.4	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.85	16.48	19.19	29.4	Pass
CH40	5200	17.11	17.00	20.07	29.4	Pass
CH44	5220	17.06	17.15	20.12	29.4	Pass
CH48	5240	17.05	16.98	20.03	29.4	Pass
CH52	5260	12.89	14.09	16.54	23.4	Pass
CH60	5300	12.88	13.93	16.45	23.4	Pass
CH64	5320	12.83	14.04	16.49	23.4	Pass
CH100	5500	12.92	13.79	16.39	23.4	Pass
CH116	5580	12.95	13.48	16.23	23.4	Pass
CH140	5700	12.75	14.21	16.55	23.4	Pass
CH144	5720	12.71	13.67	16.23	23.4	Pass
CH149	5745	18.15	18.01	21.09	29.4	Pass
CH157	5785	18.52	17.92	21.24	29.4	Pass
CH165	5825	18.79	18.62	21.72	29.4	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.11	16.74	16.11	16.74	29.4	Pass
CH40	5200	17.96	18.69	17.96	18.69	29.4	Pass
CH44	5220	18.09	18.71	18.09	18.71	29.4	Pass
CH48	5240	18.05	18.64	18.05	18.64	29.4	Pass
CH52	5260	18.22	18.31	18.22	18.31	23.4	Pass
CH60	5300	18.31	18.50	18.31	18.50	23.4	Pass
CH64	5320	17.24	17.21	17.24	17.21	23.4	Pass
CH100	5500	18.16	17.76	18.16	17.76	23.4	Pass
CH116	5580	17.35	17.86	17.35	17.86	23.4	Pass
CH140	5700	17.89	18.34	17.89	18.34	23.4	Pass
CH144	5720	18.05	18.06	18.05	18.06	23.4	Pass
CH149	5745	17.50	17.85	17.50	17.85	29.4	Pass
CH157	5785	18.06	18.17	18.06	18.17	29.4	Pass
CH165	5825	18.02	18.32	18.02	18.32	29.4	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.86	16.41	19.15	29.40	Pass
CH40	5200	17.12	16.96	20.05	29.40	Pass
CH44	5220	16.95	16.91	19.94	29.40	Pass
CH48	5240	17.18	16.49	19.86	29.40	Pass
CH52	5260	12.87	14.28	16.64	23.40	Pass
CH60	5300	12.99	13.97	16.52	23.40	Pass
CH64	5320	12.96	13.73	16.37	23.40	Pass
CH100	5500	12.97	13.81	16.42	23.40	Pass
CH116	5580	12.88	13.42	16.17	23.40	Pass
CH140	5700	12.68	14.01	16.41	23.40	Pass
CH144	5720	12.79	13.55	16.20	23.40	Pass
CH149	5745	18.27	17.60	20.96	29.40	Pass
CH157	5785	18.20	17.64	20.94	29.40	Pass
CH165	5825	18.05	18.51	21.30	29.40	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.67	14.44	17.08	26.39	Pass
CH40	5200	13.45	14.42	16.97	26.39	Pass
CH44	5220	13.85	14.33	17.11	26.39	Pass
CH48	5240	14.23	14.08	17.17	26.39	Pass
CH52	5260	12.61	13.79	16.25	20.39	Pass
CH60	5300	12.62	13.83	16.28	20.39	Pass
CH64	5320	12.60	13.68	16.18	20.39	Pass
CH100	5500	12.91	13.29	16.11	20.39	Pass
CH116	5580	12.83	13.18	16.02	20.39	Pass
CH140	5700	12.54	13.76	16.20	20.39	Pass
CH144	5720	12.60	13.35	16.00	20.39	Pass
CH149	5745	17.76	17.23	20.51	26.39	Pass
CH157	5785	17.82	17.12	20.49	26.39	Pass
CH165	5825	17.91	18.31	21.12	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 3 Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.51	14.75	14.51	14.75	29.4	Pass
CH46	5230	17.73	18.40	17.73	18.40	29.4	Pass
CH54	5270	18.28	18.66	18.28	18.66	23.4	Pass
CH62	5310	14.32	14.85	14.32	14.85	23.4	Pass
CH102	5510	15.19	16.24	15.19	16.24	23.4	Pass
CH134	5670	17.56	18.57	17.56	18.57	23.4	Pass
CH142	5710	17.42	18.25	17.42	18.25	23.4	Pass
CH151	5755	17.16	17.61	17.16	17.61	29.4	Pass
CH159	5795	17.70	18.28	17.70	18.28	29.4	Pass

Mode 3 Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.80	14.58	17.22	29.40	Pass
CH46	5230	17.01	17.06	20.05	29.40	Pass
CH54	5270	16.35	17.34	19.88	23.40	Pass
CH62	5310	13.35	14.17	16.79	23.40	Pass
CH102	5510	14.90	16.25	18.64	23.40	Pass
CH134	5670	15.12	16.75	19.02	23.40	Pass
CH142	5710	15.49	16.93	19.28	23.40	Pass
CH151	5755	18.05	17.59	20.84	29.40	Pass
CH159	5795	18.09	18.38	21.25	29.40	Pass

Mode 3 Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	14.03	14.37	17.21	26.39	Pass
CH46	5230	13.40	13.89	16.66	26.39	Pass
CH54	5270	12.67	13.81	16.29	20.39	Pass
CH62	5310	12.68	13.93	16.36	20.39	Pass
CH102	5510	12.72	13.89	16.35	20.39	Pass
CH134	5670	12.07	13.46	15.83	20.39	Pass
CH142	5710	11.83	13.14	15.54	20.39	Pass
CH151	5755	17.74	17.24	20.51	26.39	Pass
CH159	5795	17.85	17.79	20.83	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.04	16.77	16.04	16.77	29.4	Pass
CH40	5200	17.97	18.61	17.97	18.61	29.4	Pass
CH44	5220	17.99	18.67	17.99	18.67	29.4	Pass
CH48	5240	17.98	18.66	17.98	18.66	29.4	Pass
CH52	5260	18.24	18.54	18.24	18.54	23.4	Pass
CH60	5300	18.34	18.74	18.34	18.74	23.4	Pass
CH64	5320	17.39	17.30	17.39	17.30	23.4	Pass
CH100	5500	18.06	18.54	18.06	18.54	23.4	Pass
CH116	5580	18.10	18.75	18.10	18.75	23.4	Pass
CH140	5700	18.01	18.68	18.01	18.68	23.4	Pass
CH144	5720	18.11	18.54	18.11	18.54	23.4	Pass
CH149	5745	17.65	17.89	17.65	17.89	29.4	Pass
CH157	5785	18.08	18.02	18.08	18.02	29.4	Pass
CH165	5825	18.13	18.78	18.13	18.78	29.4	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.85	16.51	19.20	29.40	Pass
CH40	5200	16.47	17.10	19.81	29.40	Pass
CH44	5220	17.06	17.17	20.13	29.40	Pass
CH48	5240	16.78	16.87	19.84	29.40	Pass
CH52	5260	12.94	13.99	16.51	23.40	Pass
CH60	5300	13.00	14.01	16.54	23.40	Pass
CH64	5320	13.05	14.06	16.59	23.40	Pass
CH100	5500	12.85	13.86	16.39	23.40	Pass
CH116	5580	12.89	13.48	16.21	23.40	Pass
CH140	5700	12.48	14.15	16.41	23.40	Pass
CH144	5720	12.71	13.76	16.28	23.40	Pass
CH149	5745	18.10	18.00	21.06	29.40	Pass
CH157	5785	17.95	17.96	20.97	29.40	Pass
CH165	5825	18.11	18.61	21.38	29.40	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.50	14.22	16.89	26.39	Pass
CH40	5200	14.24	14.01	17.14	26.39	Pass
CH44	5220	14.10	14.25	17.19	26.39	Pass
CH48	5240	14.19	13.89	17.05	26.39	Pass
CH52	5260	12.64	13.85	16.30	20.39	Pass
CH60	5300	12.72	13.80	16.30	20.39	Pass
CH64	5320	12.61	13.69	16.19	20.39	Pass
CH100	5500	12.17	13.49	15.89	20.39	Pass
CH116	5580	11.88	13.28	15.65	20.39	Pass
CH140	5700	12.44	13.93	16.26	20.39	Pass
CH144	5720	12.40	13.52	16.01	20.39	Pass
CH149	5745	18.34	17.83	21.10	26.39	Pass
CH157	5785	17.74	17.99	20.88	26.39	Pass
CH165	5825	17.90	18.11	21.02	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.36	14.74	14.36	14.74	29.4	Pass
CH46	5230	17.85	18.57	17.85	18.57	29.4	Pass
CH54	5270	18.21	18.74	18.21	18.74	23.4	Pass
CH62	5310	14.29	14.86	14.29	14.86	23.4	Pass
CH102	5510	15.13	16.26	15.13	16.26	23.4	Pass
CH134	5670	17.41	18.03	17.41	18.03	23.4	Pass
CH142	5710	17.97	18.75	17.97	18.75	23.4	Pass
CH151	5755	17.51	17.89	17.51	17.89	29.4	Pass
CH159	5795	18.19	18.00	18.19	18.00	29.4	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.81	14.47	17.16	29.40	Pass
CH46	5230	16.95	17.10	20.04	29.40	Pass
CH54	5270	16.30	17.33	19.86	23.40	Pass
CH62	5310	13.25	13.99	16.65	23.40	Pass
CH102	5510	14.92	16.15	18.59	23.40	Pass
CH134	5670	15.09	16.76	19.02	23.40	Pass
CH142	5710	15.55	16.89	19.28	23.40	Pass
CH151	5755	17.58	17.84	20.72	29.40	Pass
CH159	5795	18.00	18.29	21.16	29.40	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.90	14.38	17.16	26.39	Pass
CH46	5230	13.36	13.75	16.57	26.39	Pass
CH54	5270	12.71	13.84	16.32	20.39	Pass
CH62	5310	12.83	13.75	16.32	20.39	Pass
CH102	5510	12.61	13.89	16.31	20.39	Pass
CH134	5670	12.17	13.43	15.86	20.39	Pass
CH142	5710	11.88	13.23	15.62	20.39	Pass
CH151	5755	17.66	17.93	20.81	26.39	Pass
CH159	5795	17.79	18.12	20.97	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.23	15.38	14.23	15.38	29.4	Pass
CH58	5290	14.15	14.79	14.15	14.79	23.4	Pass
CH106	5530	14.78	15.29	14.78	15.29	23.4	Pass
CH138	5690	17.98	18.49	17.98	18.49	23.4	Pass
CH155	5775	18.10	17.99	18.10	17.99	29.4	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.27	14.52	16.95	29.40	Pass
CH58	5290	12.52	13.64	16.13	23.40	Pass
CH106	5530	13.57	14.46	17.05	23.40	Pass
CH138	5690	15.50	16.83	19.23	23.40	Pass
CH155	5775	17.40	17.89	20.66	29.40	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.20	14.04	16.65	26.39	Pass
CH58	5290	11.82	13.22	15.59	20.39	Pass
CH106	5530	12.49	13.81	16.21	20.39	Pass
CH138	5690	12.65	13.50	16.11	20.39	Pass
CH155	5775	16.74	17.13	19.95	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.11	16.68	16.11	16.68	29.4	Pass
CH40	5200	17.90	18.72	17.90	18.72	29.4	Pass
CH44	5220	18.09	18.57	18.09	18.57	29.4	Pass
CH48	5240	17.93	18.61	17.93	18.61	29.4	Pass
CH52	5260	18.21	18.58	18.21	18.58	23.4	Pass
CH60	5300	18.33	18.77	18.33	18.77	23.4	Pass
CH64	5320	16.82	17.14	16.82	17.14	23.4	Pass
CH100	5500	17.61	18.35	17.61	18.35	23.4	Pass
CH116	5580	17.33	18.64	17.33	18.64	23.4	Pass
CH140	5700	18.00	18.46	18.00	18.46	23.4	Pass
CH144	5720	18.13	18.48	18.13	18.48	23.4	Pass
CH149	5745	17.63	17.94	17.63	17.94	29.4	Pass
CH157	5785	18.12	18.02	18.12	18.02	29.4	Pass
CH165	5825	18.11	18.60	18.11	18.60	29.4	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.97	16.49	19.25	29.40	Pass
CH40	5200	16.47	17.10	19.81	29.40	Pass
CH44	5220	17.06	17.17	20.13	29.40	Pass
CH48	5240	16.78	16.87	19.84	29.40	Pass
CH52	5260	12.92	14.11	16.57	20.39	Pass
CH60	5300	12.93	14.10	16.56	20.39	Pass
CH64	5320	12.82	13.93	16.42	20.39	Pass
CH100	5500	12.91	13.70	16.33	20.39	Pass
CH116	5580	12.87	13.42	16.16	20.39	Pass
CH140	5700	12.69	14.15	16.49	20.39	Pass
CH144	5720	12.78	13.72	16.29	20.39	Pass
CH149	5745	18.35	18.11	21.24	29.40	Pass
CH157	5785	18.39	18.14	21.28	29.40	Pass
CH165	5825	18.37	18.56	21.48	29.40	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.55	14.14	16.87	26.39	Pass
CH40	5200	14.07	15.19	17.68	26.39	Pass
CH44	5220	13.82	14.61	17.24	26.39	Pass
CH48	5240	13.98	14.04	17.02	26.39	Pass
CH52	5260	12.65	13.86	16.31	20.39	Pass
CH60	5300	12.79	13.81	16.34	20.39	Pass
CH64	5320	12.61	13.83	16.27	20.39	Pass
CH100	5500	12.05	13.54	15.87	20.39	Pass
CH116	5580	11.95	13.29	15.68	20.39	Pass
CH140	5700	12.62	13.86	16.29	20.39	Pass
CH144	5720	12.47	13.30	15.92	20.39	Pass
CH149	5745	17.74	17.63	20.70	26.39	Pass
CH157	5785	18.10	17.68	20.91	26.39	Pass
CH165	5825	18.12	18.35	21.25	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.45	14.85	14.45	14.85	29.4	Pass
CH46	5230	18.15	18.64	18.15	18.64	29.4	Pass
CH54	5270	18.27	18.70	18.27	18.70	23.4	Pass
CH62	5310	14.28	14.90	14.28	14.90	23.4	Pass
CH102	5510	15.06	16.23	15.06	16.23	23.4	Pass
CH134	5670	17.53	18.68	17.53	18.68	23.4	Pass
CH142	5710	17.89	18.46	17.89	18.46	23.4	Pass
CH151	5755	17.53	18.27	17.53	18.27	29.4	Pass
CH159	5795	18.07	18.62	18.07	18.62	29.4	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.77	14.40	17.11	29.40	Pass
CH46	5230	16.98	17.09	20.05	29.40	Pass
CH54	5270	16.27	17.43	19.90	23.40	Pass
CH62	5310	12.96	14.09	16.57	23.40	Pass
CH102	5510	14.92	15.84	18.41	23.40	Pass
CH134	5670	14.99	16.77	18.98	23.40	Pass
CH142	5710	15.52	16.90	19.27	23.40	Pass
CH151	5755	17.99	17.67	20.84	29.40	Pass
CH159	5795	18.00	18.20	21.11	29.40	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.92	14.50	17.23	26.39	Pass
CH46	5230	13.38	13.66	16.53	26.39	Pass
CH54	5270	12.62	13.87	16.30	20.39	Pass
CH62	5310	12.80	13.73	16.30	20.39	Pass
CH102	5510	12.57	13.78	16.23	20.39	Pass
CH134	5670	11.89	13.35	15.69	20.39	Pass
CH142	5710	11.90	13.39	15.72	20.39	Pass
CH151	5755	17.72	17.62	20.68	26.39	Pass
CH159	5795	17.86	18.06	20.97	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.32	15.34	14.32	15.34	29.4	Pass
CH58	5290	14.15	14.87	14.15	14.87	23.4	Pass
CH106	5530	14.76	15.33	14.76	15.33	23.4	Pass
CH138	5690	17.95	18.51	17.95	18.51	23.4	Pass
CH155	5775	18.23	18.29	18.23	18.29	29.4	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.37	14.61	17.04	29.40	Pass
CH58	5290	12.52	13.52	16.06	23.40	Pass
CH106	5530	13.43	14.41	16.96	23.40	Pass
CH138	5690	15.42	16.96	19.27	23.40	Pass
CH155	5775	17.23	17.58	20.42	29.40	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.14	14.00	16.60	26.39	Pass
CH58	5290	11.77	13.26	15.59	20.39	Pass
CH106	5530	12.67	13.84	16.30	20.39	Pass
CH138	5690	12.56	13.49	16.06	20.39	Pass
CH155	5775	16.75	17.24	20.01	26.39	Pass

Note1: Limit=Power limit-(directional gain-6).

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~9	Test Site	:	TR8
Test Date	:	2021.01.11	Test Engineer	:	Jun
Antenna	:	Sector Antenna			

Radio 0:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.47	17.56	17.47	17.56	28.80	Pass
CH40	5200	17.71	17.51	17.71	17.51	28.80	Pass
CH44	5220	17.52	17.47	17.52	17.47	28.80	Pass
CH48	5240	17.21	17.16	17.21	17.16	28.80	Pass
CH52	5260	18.46	18.32	18.46	18.32	22.80	Pass
CH60	5300	18.19	18.46	18.19	18.46	22.80	Pass
CH64	5320	18.59	18.43	18.59	18.43	22.80	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.34	14.53	17.45	28.80	Pass
CH40	5200	14.68	14.37	17.54	28.80	Pass
CH44	5220	14.46	14.37	17.43	28.80	Pass
CH48	5240	14.06	14.03	17.06	28.80	Pass
CH52	5260	13.34	13.67	16.52	22.80	Pass
CH60	5300	13.08	13.72	16.42	22.80	Pass
CH64	5320	13.41	13.52	16.47	22.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.09	17.21	17.09	17.21	28.80	Pass
CH40	5200	17.66	17.39	17.66	17.39	28.80	Pass
CH44	5220	17.39	17.34	17.39	17.34	28.80	Pass
CH48	5240	17.19	17.14	17.19	17.14	28.80	Pass
CH52	5260	18.45	18.42	18.45	18.42	22.80	Pass
CH60	5300	18.04	18.64	18.04	18.64	22.80	Pass
CH64	5320	17.56	17.43	17.56	17.43	22.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.41	14.46	17.45	28.80	Pass
CH40	5200	14.66	14.50	17.59	28.80	Pass
CH44	5220	14.44	14.37	17.42	28.80	Pass
CH48	5240	14.12	13.96	17.05	28.80	Pass
CH52	5260	13.37	13.70	16.55	22.80	Pass
CH60	5300	13.15	13.67	16.43	22.80	Pass
CH64	5320	13.42	13.50	16.47	22.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.13	11.29	14.22	25.79	Pass
CH40	5200	11.46	11.30	14.39	25.79	Pass
CH44	5220	11.12	11.08	14.11	25.79	Pass
CH48	5240	10.81	10.92	13.87	25.79	Pass
CH52	5260	13.12	13.45	16.30	19.79	Pass
CH60	5300	12.87	13.39	16.15	19.79	Pass
CH64	5320	13.18	13.21	16.20	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 3: Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.92	15.64	15.92	15.64	28.80	Pass
CH46	5230	17.47	17.06	17.47	17.06	28.80	Pass
CH54	5270	18.71	18.67	18.71	18.67	22.80	Pass
CH62	5310	15.94	15.88	15.94	15.88	22.80	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.15	14.00	17.09	30.00	Pass
CH46	5230	14.28	13.81	17.06	30.00	Pass
CH54	5270	13.24	13.57	16.42	22.80	Pass
CH62	5310	13.03	13.16	16.11	22.80	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	10.91	10.71	13.82	25.79	Pass
CH46	5230	11.11	10.54	13.84	25.79	Pass
CH54	5270	13.01	13.27	16.15	19.79	Pass
CH62	5310	12.81	12.89	15.86	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.21	17.29	17.21	17.29	28.80	Pass
CH40	5200	17.62	17.48	17.62	17.48	28.80	Pass
CH44	5220	17.52	17.46	17.52	17.46	28.80	Pass
CH48	5240	17.13	17.11	17.13	17.11	28.80	Pass
CH52	5260	18.32	18.43	18.32	18.43	22.80	Pass
CH60	5300	18.11	18.71	18.11	18.71	22.80	Pass
CH64	5320	17.57	17.54	17.57	17.54	22.80	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.41	14.53	17.48	28.80	Pass
CH40	5200	14.61	14.50	17.57	28.80	Pass
CH44	5220	14.43	14.42	17.44	28.80	Pass
CH48	5240	14.00	14.05	17.04	28.80	Pass
CH52	5260	13.45	13.74	16.61	22.80	Pass
CH60	5300	13.12	13.67	16.41	22.80	Pass
CH64	5320	13.42	13.43	16.43	22.80	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.17	11.27	14.23	25.79	Pass
CH40	5200	11.36	11.31	14.35	25.79	Pass
CH44	5220	11.15	11.18	14.18	25.79	Pass
CH48	5240	10.83	10.70	13.78	25.79	Pass
CH52	5260	13.09	13.55	16.34	19.79	Pass
CH60	5300	12.80	13.42	16.13	19.79	Pass
CH64	5320	13.34	13.29	16.33	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.77	15.61	15.77	15.61	28.80	Pass
CH46	5230	17.37	16.92	17.37	16.92	28.80	Pass
CH54	5270	18.60	18.82	18.60	18.82	22.80	Pass
CH62	5310	15.90	15.86	15.90	15.86	22.80	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.25	13.99	17.13	28.80	Pass
CH46	5230	14.23	13.83	17.04	28.80	Pass
CH54	5270	13.27	13.58	16.44	22.80	Pass
CH62	5310	13.02	13.11	16.08	22.80	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	11.03	10.70	13.88	25.79	Pass
CH46	5230	10.96	10.53	13.76	25.79	Pass
CH54	5270	12.86	13.22	16.05	19.79	Pass
CH62	5310	12.89	12.76	15.84	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.78	15.74	15.78	15.74	28.80	Pass
CH58	5290	15.64	15.91	15.64	15.91	22.80	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.41	14.39	17.41	28.80	Pass
CH58	5290	13.22	13.14	16.19	22.80	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	11.11	10.71	13.93	25.79	Pass
CH58	5290	12.93	12.81	15.88	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.17	16.62	17.17	16.62	28.80	Pass
CH40	5200	17.63	17.40	17.63	17.40	28.80	Pass
CH44	5220	17.42	17.45	17.42	17.45	28.80	Pass
CH48	5240	17.13	17.06	17.13	17.06	28.80	Pass
CH52	5260	18.38	18.69	18.38	18.69	22.80	Pass
CH60	5300	18.16	18.68	18.16	18.68	22.80	Pass
CH64	5320	17.42	17.46	17.42	17.46	22.80	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.35	14.56	17.47	28.80	Pass
CH40	5200	14.62	14.43	17.54	28.80	Pass
CH44	5220	14.47	14.45	17.47	28.80	Pass
CH48	5240	14.10	14.00	17.06	28.80	Pass
CH52	5260	13.40	13.66	16.54	22.80	Pass
CH60	5300	13.08	13.62	16.37	22.80	Pass
CH64	5320	13.39	13.50	16.46	22.80	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.03	11.36	14.21	25.79	Pass
CH40	5200	11.30	11.23	14.28	25.79	Pass
CH44	5220	11.27	11.13	14.21	25.79	Pass
CH48	5240	10.85	10.75	13.81	25.79	Pass
CH52	5260	13.17	13.57	16.39	19.79	Pass
CH60	5300	12.88	13.40	16.16	19.79	Pass
CH64	5320	13.35	13.43	16.40	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.87	15.52	15.87	15.52	28.80	Pass
CH46	5230	17.41	16.91	17.41	16.91	28.80	Pass
CH54	5270	18.65	18.72	18.65	18.72	22.80	Pass
CH62	5310	15.89	15.74	15.89	15.74	22.80	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.22	13.96	17.10	28.80	Pass
CH46	5230	14.25	13.78	17.03	28.80	Pass
CH54	5270	13.24	13.49	16.38	22.80	Pass
CH62	5310	13.05	13.16	16.11	22.80	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	10.99	10.69	13.85	25.79	Pass
CH46	5230	11.04	10.50	13.79	25.79	Pass
CH54	5270	12.75	13.25	16.02	19.79	Pass
CH62	5310	12.92	12.77	15.86	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.74	15.68	15.74	15.68	28.80	Pass
CH58	5290	15.67	15.86	15.67	15.86	22.80	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.45	14.36	17.42	28.80	Pass
CH58	5290	13.12	13.14	16.14	22.80	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	11.22	10.75	14.00	25.79	Pass
CH58	5290	12.99	12.90	15.96	19.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Radio 1:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.35	17.36	17.35	17.36	28.80	Pass
CH40	5200	17.21	17.48	17.21	17.48	28.80	Pass
CH44	5220	17.26	17.56	17.26	17.56	28.80	Pass
CH48	5240	17.22	17.59	17.22	17.59	28.80	Pass
CH52	5260	18.47	18.16	18.47	18.16	22.80	Pass
CH60	5300	18.52	18.13	18.52	18.13	22.80	Pass
CH64	5320	17.98	18.12	17.98	18.12	22.80	Pass
CH100	5500	17.85	18.08	17.85	18.08	22.80	Pass
CH116	5580	17.63	17.95	17.63	17.95	22.80	Pass
CH140	5700	18.21	17.93	18.21	17.93	22.80	Pass
CH144	5720	18.32	18.06	18.32	18.06	22.80	Pass
CH149	5745	18.27	17.03	18.27	17.03	28.80	Pass
CH157	5785	17.81	18.05	17.81	18.05	28.80	Pass
CH165	5825	18.38	17.96	18.38	17.96	28.80	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.87	14.92	17.44	28.80	Pass
CH40	5200	13.78	15.09	17.49	28.80	Pass
CH44	5220	13.78	15.03	17.46	28.80	Pass
CH48	5240	13.82	15.06	17.49	28.80	Pass
CH52	5260	13.04	14.38	16.77	22.80	Pass
CH60	5300	13.08	14.04	16.59	22.80	Pass
CH64	5320	12.91	14.11	16.56	22.80	Pass
CH100	5500	12.51	13.77	16.19	22.80	Pass
CH116	5580	12.17	13.52	15.91	22.80	Pass
CH140	5700	12.78	14.20	16.56	22.80	Pass
CH144	5720	12.74	13.85	16.34	22.80	Pass
CH149	5745	18.40	17.94	21.19	28.80	Pass
CH157	5785	18.90	18.11	21.53	28.80	Pass
CH165	5825	17.76	18.06	20.92	28.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.13	17.22	17.13	17.22	28.80	Pass
CH40	5200	17.19	17.39	17.19	17.39	28.80	Pass
CH44	5220	17.15	17.51	17.15	17.51	28.80	Pass
CH48	5240	17.31	17.49	17.31	17.49	28.80	Pass
CH52	5260	18.49	18.51	18.49	18.51	22.80	Pass
CH60	5300	18.62	18.65	18.62	18.65	22.80	Pass
CH64	5320	17.69	17.61	17.69	17.61	22.80	Pass
CH100	5500	18.34	18.03	18.34	18.03	22.80	Pass
CH116	5580	18.16	18.01	18.16	18.01	22.80	Pass
CH140	5700	18.28	18.04	18.28	18.04	22.80	Pass
CH144	5720	18.27	18.32	18.27	18.32	22.80	Pass
CH149	5745	18.31	17.96	18.31	17.96	28.80	Pass
CH157	5785	18.25	18.24	18.25	18.24	28.80	Pass
CH165	5825	18.33	18.00	18.33	18.00	28.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.80	14.89	17.39	28.80	Pass
CH40	5200	13.72	14.92	17.37	28.80	Pass
CH44	5220	13.86	15.10	17.53	28.80	Pass
CH48	5240	13.79	15.18	17.55	28.80	Pass
CH52	5260	13.07	14.35	16.77	22.80	Pass
CH60	5300	13.12	14.06	16.63	22.80	Pass
CH64	5320	12.92	14.18	16.61	22.80	Pass
CH100	5500	12.53	13.78	16.21	22.80	Pass
CH116	5580	12.24	13.42	15.88	22.80	Pass
CH140	5700	12.86	14.18	16.58	22.80	Pass
CH144	5720	12.79	13.84	16.36	22.80	Pass
CH149	5745	18.38	17.73	21.08	28.80	Pass
CH157	5785	18.50	17.85	21.20	28.80	Pass
CH165	5825	17.75	18.04	20.91	28.80	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.71	11.95	14.39	25.79	Pass
CH40	5200	10.72	11.88	14.35	25.79	Pass
CH44	5220	10.90	12.14	14.57	25.79	Pass
CH48	5240	10.76	12.16	14.53	25.79	Pass
CH52	5260	12.75	14.11	16.49	19.79	Pass
CH60	5300	12.83	13.81	16.36	19.79	Pass
CH64	5320	12.69	13.89	16.34	19.79	Pass
CH100	5500	12.24	13.54	15.95	19.79	Pass
CH116	5580	11.92	13.21	15.62	19.79	Pass
CH140	5700	12.57	13.91	16.30	19.79	Pass
CH144	5720	12.52	13.52	16.06	19.79	Pass
CH149	5745	18.04	17.43	20.76	25.79	Pass
CH157	5785	18.27	17.57	20.94	25.79	Pass
CH165	5825	17.54	17.75	20.66	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 3 Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.32	15.63	15.32	15.63	28.80	Pass
CH46	5230	16.97	17.29	16.97	17.29	28.80	Pass
CH54	5270	18.49	18.64	18.49	18.64	22.80	Pass
CH62	5310	15.12	15.41	15.12	15.41	22.80	Pass
CH102	5510	15.58	16.03	15.58	16.03	22.80	Pass
CH134	5670	17.72	18.46	17.72	18.46	22.80	Pass
CH142	5710	18.16	18.73	18.16	18.73	22.80	Pass
CH151	5755	17.85	17.75	17.85	17.75	28.80	Pass
CH159	5795	18.33	18.06	18.33	18.06	28.80	Pass

Mode 3 Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.47	14.67	17.12	28.80	Pass
CH46	5230	13.46	14.80	17.19	28.80	Pass
CH54	5270	13.51	14.22	16.89	22.80	Pass
CH62	5310	13.06	13.86	16.49	22.80	Pass
CH102	5510	13.14	14.40	16.82	22.80	Pass
CH134	5670	12.33	14.02	16.27	22.80	Pass
CH142	5710	12.73	14.12	16.49	22.80	Pass
CH151	5755	17.92	17.83	20.89	28.80	Pass
CH159	5795	18.01	18.27	21.15	28.80	Pass

Mode 3 Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.40	11.62	14.06	25.79	Pass
CH46	5230	10.51	11.83	14.23	25.79	Pass
CH54	5270	13.18	13.98	16.61	19.79	Pass
CH62	5310	12.77	13.65	16.24	19.79	Pass
CH102	5510	12.89	14.19	16.60	19.79	Pass
CH134	5670	12.12	13.73	16.01	19.79	Pass
CH142	5710	12.47	13.85	16.23	19.79	Pass
CH151	5755	17.59	17.50	20.56	25.79	Pass
CH159	5795	17.75	18.00	20.89	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.06	17.34	17.06	17.34	28.80	Pass
CH40	5200	17.10	17.53	17.10	17.53	28.80	Pass
CH44	5220	17.19	17.44	17.19	17.44	28.80	Pass
CH48	5240	17.07	17.50	17.07	17.50	28.80	Pass
CH52	5260	18.58	19.03	18.58	19.03	22.80	Pass
CH60	5300	18.56	19.15	18.56	19.15	22.80	Pass
CH64	5320	17.69	17.69	17.69	17.69	22.80	Pass
CH100	5500	17.90	18.72	17.90	18.72	22.80	Pass
CH116	5580	17.74	18.50	17.74	18.50	22.80	Pass
CH140	5700	18.26	18.86	18.26	18.86	22.80	Pass
CH144	5720	18.39	18.76	18.39	18.76	22.80	Pass
CH149	5745	17.90	17.85	17.90	17.85	28.80	Pass
CH157	5785	18.41	18.15	18.41	18.15	28.80	Pass
CH165	5825	18.39	18.06	18.39	18.06	28.80	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.93	14.81	17.40	28.80	Pass
CH40	5200	13.68	14.99	17.39	28.80	Pass
CH44	5220	13.81	15.15	17.54	28.80	Pass
CH48	5240	13.73	15.08	17.47	28.80	Pass
CH52	5260	13.05	14.36	16.77	22.80	Pass
CH60	5300	13.11	14.02	16.60	22.80	Pass
CH64	5320	13.02	14.12	16.62	22.80	Pass
CH100	5500	12.53	13.82	16.23	22.80	Pass
CH116	5580	12.13	13.51	15.88	22.80	Pass
CH140	5700	12.87	14.15	16.57	22.80	Pass
CH144	5720	12.75	13.76	16.30	22.80	Pass
CH149	5745	18.29	17.85	21.09	28.80	Pass
CH157	5785	18.86	18.12	21.52	28.80	Pass
CH165	5825	17.74	17.98	20.87	28.80	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.90	11.76	14.36	25.79	Pass
CH40	5200	10.66	11.91	14.34	25.79	Pass
CH44	5220	10.73	12.18	14.52	25.79	Pass
CH48	5240	10.68	11.99	14.40	25.79	Pass
CH52	5260	12.72	13.94	26.59	19.79	Pass
CH60	5300	12.79	13.92	26.61	19.79	Pass
CH64	5320	12.83	13.93	26.64	19.79	Pass
CH100	5500	12.10	13.66	26.17	19.79	Pass
CH116	5580	12.81	13.24	26.25	19.79	Pass
CH140	5700	12.37	13.83	26.38	19.79	Pass
CH144	5720	12.51	13.45	26.23	19.79	Pass
CH149	5745	17.98	17.61	20.81	25.79	Pass
CH157	5785	18.62	17.90	21.29	25.79	Pass
CH165	5825	17.42	17.74	20.59	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.46	15.69	15.46	15.69	28.80	Pass
CH46	5230	17.09	17.15	17.09	17.15	28.80	Pass
CH54	5270	18.55	19.09	18.55	19.09	22.80	Pass
CH62	5310	15.04	15.51	15.04	15.51	22.80	Pass
CH102	5510	15.59	15.98	15.59	15.98	22.80	Pass
CH134	5670	18.26	18.45	18.26	18.45	22.80	Pass
CH142	5710	18.11	18.66	18.11	18.66	22.80	Pass
CH151	5755	18.21	17.76	18.21	17.76	28.80	Pass
CH159	5795	18.14	18.23	18.14	18.23	28.80	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.52	14.64	17.13	28.80	Pass
CH46	5230	13.54	14.75	17.20	28.80	Pass
CH54	5270	13.40	14.21	16.84	22.80	Pass
CH62	5310	13.09	13.93	16.54	22.80	Pass
CH102	5510	13.15	14.42	16.84	22.80	Pass
CH134	5670	12.40	13.94	16.25	22.80	Pass
CH142	5710	12.79	14.11	16.51	22.80	Pass
CH151	5755	17.84	18.15	21.01	28.80	Pass
CH159	5795	17.86	18.29	21.09	28.80	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.45	11.72	14.14	25.79	Pass
CH46	5230	10.51	11.69	14.15	25.79	Pass
CH54	5270	12.31	13.22	26.01	19.79	Pass
CH62	5310	12.41	13.56	26.24	19.79	Pass
CH102	5510	12.35	13.56	26.22	19.79	Pass
CH134	5670	12.04	13.71	26.18	19.79	Pass
CH142	5710	12.46	13.79	26.40	19.79	Pass
CH151	5755	17.51	17.84	20.69	25.79	Pass
CH159	5795	17.55	18.06	20.82	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	15.01	15.26	15.01	15.26	28.80	Pass
CH58	5290	15.05	15.57	15.05	15.57	22.80	Pass
CH106	5530	15.98	16.35	15.98	16.35	22.80	Pass
CH138	5690	18.37	18.62	18.37	18.62	22.80	Pass
CH155	5775	18.12	18.15	18.12	18.15	28.80	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.89	14.83	17.40	28.80	Pass
CH58	5290	12.73	13.86	16.34	22.80	Pass
CH106	5530	12.76	13.77	16.30	22.80	Pass
CH138	5690	12.80	14.10	16.51	22.80	Pass
CH155	5775	17.31	18.01	20.68	28.80	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	10.92	11.59	14.28	25.79	Pass
CH58	5290	12.51	13.55	26.28	19.79	Pass
CH106	5530	12.46	13.52	26.24	19.79	Pass
CH138	5690	12.49	13.88	26.46	19.79	Pass
CH155	5775	17.07	17.77	20.44	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.13	17.26	17.13	17.26	28.80	Pass
CH40	5200	17.24	17.39	17.24	17.39	28.80	Pass
CH44	5220	17.16	17.61	17.16	17.61	28.80	Pass
CH48	5240	17.18	17.56	17.18	17.56	28.80	Pass
CH52	5260	18.54	19.25	18.54	19.25	22.80	Pass
CH60	5300	18.50	19.17	18.50	19.17	22.80	Pass
CH64	5320	17.65	17.73	17.65	17.73	22.80	Pass
CH100	5500	17.95	18.51	17.95	18.51	22.80	Pass
CH116	5580	18.03	18.55	18.03	18.55	22.80	Pass
CH140	5700	18.29	18.91	18.29	18.91	22.80	Pass
CH144	5720	18.32	18.77	18.32	18.77	22.80	Pass
CH149	5745	17.81	17.92	17.81	17.92	28.80	Pass
CH157	5785	18.34	18.21	18.34	18.21	28.80	Pass
CH165	5825	18.31	18.26	18.31	18.26	28.80	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.82	14.87	17.39	28.80	Pass
CH40	5200	13.73	15.06	17.46	28.80	Pass
CH44	5220	13.74	15.02	17.44	28.80	Pass
CH48	5240	13.80	15.11	17.51	28.80	Pass
CH52	5260	12.98	14.33	16.72	22.80	Pass
CH60	5300	13.14	14.12	16.67	22.80	Pass
CH64	5320	12.92	14.19	16.61	22.80	Pass
CH100	5500	12.53	13.75	16.20	22.80	Pass
CH116	5580	12.13	13.52	15.89	22.80	Pass
CH140	5700	12.82	14.13	16.53	22.80	Pass
CH144	5720	12.80	13.73	16.30	22.80	Pass
CH149	5745	18.29	18.34	21.33	28.80	Pass
CH157	5785	18.18	18.42	21.31	28.80	Pass
CH165	5825	18.21	18.94	21.60	28.80	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.76	11.91	14.38	25.79	Pass
CH40	5200	10.74	12.04	14.45	25.79	Pass
CH44	5220	10.77	11.93	14.40	25.79	Pass
CH48	5240	10.75	12.11	14.49	25.79	Pass
CH52	5260	12.65	14.01	16.39	19.79	Pass
CH60	5300	12.83	13.89	16.40	19.79	Pass
CH64	5320	12.66	13.90	16.33	19.79	Pass
CH100	5500	12.26	13.55	15.97	19.79	Pass
CH116	5580	11.90	13.16	15.59	19.79	Pass
CH140	5700	12.47	13.88	16.25	19.79	Pass
CH144	5720	12.57	13.56	16.10	19.79	Pass
CH149	5745	18.01	18.07	21.05	25.79	Pass
CH157	5785	17.97	18.16	21.08	25.79	Pass
CH165	5825	17.97	18.69	21.36	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.32	15.66	15.32	15.66	28.80	Pass
CH46	5230	17.11	17.18	17.11	17.18	28.80	Pass
CH54	5270	18.52	19.06	18.52	19.06	22.80	Pass
CH62	5310	15.14	15.51	15.14	15.51	22.80	Pass
CH102	5510	15.67	16.04	15.67	16.04	22.80	Pass
CH134	5670	18.13	18.11	18.13	18.11	22.80	Pass
CH142	5710	18.08	18.63	18.08	18.63	22.80	Pass
CH151	5755	17.96	18.43	17.96	18.43	28.80	Pass
CH159	5795	17.92	18.21	17.92	18.21	28.80	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.48	14.66	17.12	28.80	Pass
CH46	5230	13.56	14.84	17.26	28.80	Pass
CH54	5270	13.40	14.25	16.86	22.80	Pass
CH62	5310	13.09	13.91	16.53	22.80	Pass
CH102	5510	13.11	14.43	16.83	22.80	Pass
CH134	5670	12.36	13.97	16.25	22.80	Pass
CH142	5710	12.80	14.11	16.51	22.80	Pass
CH151	5755	17.88	18.26	21.08	28.80	Pass
CH159	5795	18.12	18.56	21.36	28.80	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.49	11.60	14.09	25.79	Pass
CH46	5230	10.54	11.80	14.23	25.79	Pass
CH54	5270	12.35	13.39	15.91	19.79	Pass
CH62	5310	12.78	13.50	16.17	19.79	Pass
CH102	5510	12.56	13.37	15.99	19.79	Pass
CH134	5670	12.06	13.78	16.01	19.79	Pass
CH142	5710	12.57	13.86	16.27	19.79	Pass
CH151	5755	17.55	17.98	20.78	25.79	Pass
CH159	5795	17.79	18.33	21.08	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.98	15.06	14.98	15.06	28.80	Pass
CH58	5290	15.08	15.47	15.08	15.47	22.80	Pass
CH106	5530	16.03	16.36	16.03	16.36	22.80	Pass
CH138	5690	18.43	18.70	18.43	18.70	22.80	Pass
CH155	5775	18.20	18.22	18.20	18.22	28.80	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.92	14.81	17.40	28.80	Pass
CH58	5290	12.80	13.76	16.32	22.80	Pass
CH106	5530	12.70	13.84	16.32	22.80	Pass
CH138	5690	12.81	14.09	16.51	22.80	Pass
CH155	5775	17.71	17.53	20.63	28.80	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	10.91	11.63	14.29	25.79	Pass
CH58	5290	12.46	13.25	15.88	19.79	Pass
CH106	5530	12.54	13.28	15.94	19.79	Pass
CH138	5690	12.50	13.83	16.23	19.79	Pass
CH155	5775	17.49	17.22	20.37	25.79	Pass

Note1: Limit=Power limit-(directional gain-6).

Above 30 degrees Power

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~9	Test Site	:	TR8
Test Date	:	2020.11.30	Test Engineer	:	Jun
Antenna	:	OMNI Antenna			

Radio 0:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.94	17.38	16.94	17.38	21.0	Pass
CH40	5200	18.19	18.20	18.19	18.20	21.0	Pass
CH44	5220	18.26	18.28	18.26	18.28	21.0	Pass
CH48	5240	18.21	18.08	18.21	18.08	21.0	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	16.14	16.19	19.18	21.0	Pass
CH40	5200	17.29	17.09	20.20	21.0	Pass
CH44	5220	17.32	17.21	20.28	21.0	Pass
CH48	5240	17.19	17.10	20.16	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.86	16.91	16.86	16.91	21.0	Pass
CH40	5200	18.23	18.05	18.23	18.05	21.0	Pass
CH44	5220	18.35	18.25	18.35	18.25	21.0	Pass
CH48	5240	18.44	18.27	18.44	18.27	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.84	15.91	18.89	21.0	Pass
CH40	5200	17.00	17.34	20.18	21.0	Pass
CH44	5220	16.89	17.11	20.01	21.0	Pass
CH48	5240	16.83	17.35	20.11	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.89	14.17	20.05	21.0	Pass
CH40	5200	13.79	13.84	19.84	21.0	Pass
CH44	5220	13.64	14.07	19.88	21.0	Pass
CH48	5240	13.66	14.31	20.02	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.32	14.45	14.32	14.45	21.0	Pass
CH46	5230	18.46	17.82	18.46	17.82	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.91	14.19	17.06	21.0	Pass
CH46	5230	17.56	17.16	20.37	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.67	14.13	19.93	21.0	Pass
CH46	5230	13.60	13.91	19.78	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.90	16.94	16.90	16.94	21.0	Pass
CH40	5200	18.45	18.78	18.45	18.78	21.0	Pass
CH44	5220	18.63	18.56	18.63	18.56	21.0	Pass
CH48	5240	18.58	18.50	18.58	18.50	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.88	16.16	19.03	21.0	Pass
CH40	5200	16.84	17.25	20.06	21.0	Pass
CH44	5220	16.90	17.27	20.10	21.0	Pass
CH48	5240	16.87	17.24	20.07	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.97	14.07	20.04	21.0	Pass
CH40	5200	13.58	14.16	19.90	21.0	Pass
CH44	5220	13.57	14.23	19.93	21.0	Pass
CH48	5240	13.54	14.30	19.96	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.38	14.62	14.38	14.62	21.0	Pass
CH46	5230	18.00	17.94	18.00	17.94	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.76	14.14	16.96	21.0	Pass
CH46	5230	16.92	17.14	20.04	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.69	14.18	19.96	21.0	Pass
CH46	5230	13.62	13.92	19.79	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.11	15.73	15.11	15.73	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.14	14.41	17.29	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	13.77	14.07	19.94	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	16.84	16.76	16.84	16.76	21.0	Pass
CH40	5200	18.25	18.52	18.25	18.52	21.0	Pass
CH44	5220	18.41	18.75	18.41	18.75	21.0	Pass
CH48	5240	18.35	18.80	18.35	18.80	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	15.96	16.23	19.11	21.0	Pass
CH40	5200	16.69	17.27	20.00	21.0	Pass
CH44	5220	16.93	17.28	20.12	21.0	Pass
CH48	5240	16.83	17.40	20.13	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	13.80	13.86	19.85	21.0	Pass
CH40	5200	13.65	13.98	19.84	21.0	Pass
CH44	5220	13.66	13.98	19.84	21.0	Pass
CH48	5240	13.68	13.98	19.85	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	14.38	14.55	14.38	14.55	21.0	Pass
CH46	5230	19.13	18.50	19.13	18.50	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.87	14.14	17.02	21.0	Pass
CH46	5230	17.25	17.64	20.46	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	13.52	14.16	19.87	21.0	Pass
CH46	5230	13.75	14.01	19.90	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.18	15.61	15.18	15.61	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.11	14.48	17.31	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	13.73	14.02	19.90	21.0	Pass

Radio 1:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.57	17.11	16.57	17.11	21.0	Pass
CH40	5200	17.98	18.76	17.98	18.76	21.0	Pass
CH44	5220	17.95	18.46	17.95	18.46	21.0	Pass
CH48	5240	18.01	18.47	18.01	18.47	21.0	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.85	16.48	19.19	21.0	Pass
CH40	5200	17.11	17.00	20.07	21.0	Pass
CH44	5220	17.06	17.15	20.12	21.0	Pass
CH48	5240	17.05	16.98	20.03	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.11	16.74	16.11	16.74	21.0	Pass
CH40	5200	17.96	18.69	17.96	18.69	21.0	Pass
CH44	5220	18.09	18.71	18.09	18.71	21.0	Pass
CH48	5240	18.05	18.64	18.05	18.64	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.86	16.41	19.15	21.0	Pass
CH40	5200	17.12	16.96	20.05	21.0	Pass
CH44	5220	16.95	16.91	19.94	21.0	Pass
CH48	5240	17.18	16.49	19.86	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.67	14.44	20.09	21.0	Pass
CH40	5200	13.45	14.42	19.98	21.0	Pass
CH44	5220	13.85	14.33	20.12	21.0	Pass
CH48	5240	14.23	14.08	20.18	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.51	14.75	14.51	14.75	21.0	Pass
CH46	5230	17.73	18.40	17.73	18.40	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.80	14.58	17.22	21.0	Pass
CH46	5230	17.01	17.06	20.05	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	14.03	14.37	20.22	21.0	Pass
CH46	5230	13.40	13.89	19.67	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.04	16.77	16.04	16.77	21.0	Pass
CH40	5200	17.97	18.61	17.97	18.61	21.0	Pass
CH44	5220	17.99	18.67	17.99	18.67	21.0	Pass
CH48	5240	17.98	18.66	17.98	18.66	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.85	16.51	19.20	21.0	Pass
CH40	5200	16.47	17.10	19.81	21.0	Pass
CH44	5220	17.06	17.17	20.13	21.0	Pass
CH48	5240	16.78	16.87	19.84	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.50	14.22	19.90	21.0	Pass
CH40	5200	14.24	14.01	20.15	21.0	Pass
CH44	5220	14.10	14.25	20.20	21.0	Pass
CH48	5240	14.19	13.89	20.06	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.36	14.74	14.36	14.74	21.0	Pass
CH46	5230	17.85	18.57	17.85	18.57	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.81	14.47	17.16	21.0	Pass
CH46	5230	16.95	17.10	20.04	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.90	14.38	20.17	21.0	Pass
CH46	5230	13.36	13.75	19.58	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.23	15.38	14.23	15.38	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.27	14.52	16.95	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.20	14.04	19.66	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	16.11	16.68	16.11	16.68	21.0	Pass
CH40	5200	17.90	18.72	17.90	18.72	21.0	Pass
CH44	5220	18.09	18.57	18.09	18.57	21.0	Pass
CH48	5240	17.93	18.61	17.93	18.61	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	15.97	16.49	19.25	21.0	Pass
CH40	5200	16.47	17.10	19.81	21.0	Pass
CH44	5220	17.06	17.17	20.13	21.0	Pass
CH48	5240	16.78	16.87	19.84	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.55	14.14	19.88	21.0	Pass
CH40	5200	14.07	15.19	20.69	21.0	Pass
CH44	5220	13.82	14.61	20.25	21.0	Pass
CH48	5240	13.98	14.04	20.03	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	14.45	14.85	14.45	14.85	21.0	Pass
CH46	5230	18.15	18.64	18.15	18.64	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.77	14.40	17.11	21.0	Pass
CH46	5230	16.98	17.09	20.05	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.92	14.50	20.24	21.0	Pass
CH46	5230	13.38	13.66	19.54	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.32	15.34	14.32	15.34	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.37	14.61	17.04	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.14	14.00	19.61	21.0	Pass

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~9	Test Site	:	TR8
Test Date	:	2021.01.11	Test Engineer	:	Jun
Antenna	:	Sector Antenna			

Radio 0:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.47	17.56	20.47	20.56	21.0	Pass
CH40	5200	17.71	17.51	20.71	20.51	21.0	Pass
CH44	5220	17.52	17.47	20.52	20.47	21.0	Pass
CH48	5240	17.21	17.16	20.21	20.16	21.0	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.34	14.53	20.45	21.0	Pass
CH40	5200	14.68	14.37	20.54	21.0	Pass
CH44	5220	14.46	14.37	20.43	21.0	Pass
CH48	5240	14.13	14.09	20.12	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.09	17.21	20.09	20.21	21.0	Pass
CH40	5200	17.66	17.39	20.66	20.39	21.0	Pass
CH44	5220	17.39	17.34	20.39	20.34	21.0	Pass
CH48	5240	17.19	17.14	20.19	20.14	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.41	14.46	20.45	21.0	Pass
CH40	5200	14.66	14.50	20.59	21.0	Pass
CH44	5220	14.44	14.37	20.42	21.0	Pass
CH48	5240	14.10	14.16	20.14	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.13	11.29	20.23	21.0	Pass
CH40	5200	11.46	11.30	20.40	21.0	Pass
CH44	5220	11.12	11.08	20.12	21.0	Pass
CH48	5240	10.81	10.92	19.88	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.92	15.64	18.92	18.64	21.0	Pass
CH46	5230	17.47	17.06	20.47	20.06	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.15	14.00	20.09	21.0	Pass
CH46	5230	14.28	13.81	20.06	21.0	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	10.91	10.71	19.83	21.0	Pass
CH46	5230	11.11	10.54	19.85	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.21	17.29	20.21	20.29	21.0	Pass
CH40	5200	17.62	17.48	20.62	20.48	21.0	Pass
CH44	5220	17.52	17.46	20.52	20.46	21.0	Pass
CH48	5240	17.13	17.11	20.13	20.11	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.41	14.53	20.48	21.0	Pass
CH40	5200	14.61	14.50	20.57	21.0	Pass
CH44	5220	14.43	14.42	20.44	21.0	Pass
CH48	5240	14.10	14.02	20.07	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.17	11.27	20.24	21.0	Pass
CH40	5200	11.36	11.31	20.36	21.0	Pass
CH44	5220	11.15	11.18	20.19	21.0	Pass
CH48	5240	10.83	10.70	19.79	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.77	15.61	18.77	18.61	21.0	Pass
CH46	5230	17.37	16.92	20.37	19.92	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.25	13.99	20.13	21.0	Pass
CH46	5230	14.23	13.83	20.04	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	11.03	10.70	19.89	21.0	Pass
CH46	5230	10.96	10.53	19.77	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.78	15.74	18.78	18.74	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.41	14.39	20.41	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	11.11	10.71	19.94	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH36	5180	17.17	17.28	20.17	20.28	21.0	Pass
CH40	5200	17.63	17.40	20.63	20.40	21.0	Pass
CH44	5220	17.42	17.45	20.42	20.45	21.0	Pass
CH48	5240	17.13	17.06	20.13	20.06	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	14.35	14.56	20.47	21.0	Pass
CH40	5200	14.62	14.43	20.54	21.0	Pass
CH44	5220	14.47	14.45	20.47	21.0	Pass
CH48	5240	14.05	14.00	20.04	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	11.03	11.36	20.22	21.0	Pass
CH40	5200	11.30	11.23	20.29	21.0	Pass
CH44	5220	11.27	11.13	20.22	21.0	Pass
CH48	5240	10.85	10.75	19.82	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH38	5190	15.87	15.52	18.87	18.52	21.0	Pass
CH46	5230	17.41	16.91	20.41	19.91	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	14.22	13.96	20.10	21.0	Pass
CH46	5230	14.25	13.78	20.03	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	10.99	10.69	19.86	21.0	Pass
CH46	5230	11.04	10.50	19.80	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant1	Ant2	Ant1	Ant2		
CH42	5210	15.74	15.68	18.74	18.68	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	14.45	14.36	20.42	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	11.22	10.75	20.01	21.0	Pass

Radio 1:

Mode 1: Transmit by 802.11a with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.35	17.36	20.35	20.36	21.0	Pass
CH40	5200	17.21	17.48	20.21	20.48	21.0	Pass
CH44	5220	17.26	17.56	20.26	20.56	21.0	Pass
CH48	5240	17.22	17.59	20.22	20.59	21.0	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.87	14.92	20.44	21.0	Pass
CH40	5200	13.78	15.09	20.49	21.0	Pass
CH44	5220	13.78	15.03	20.46	21.0	Pass
CH48	5240	13.82	15.06	20.49	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.13	17.22	20.13	20.22	21.0	Pass
CH40	5200	17.19	17.39	20.19	20.39	21.0	Pass
CH44	5220	17.15	17.51	20.15	20.51	21.0	Pass
CH48	5240	17.31	17.49	20.31	20.49	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.80	14.89	20.39	21.0	Pass
CH40	5200	13.72	14.92	20.37	21.0	Pass
CH44	5220	13.86	15.10	20.53	21.0	Pass
CH48	5240	13.79	15.18	20.55	21.0	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.71	11.95	20.40	21.0	Pass
CH40	5200	10.72	11.88	20.36	21.0	Pass
CH44	5220	10.90	12.14	20.58	21.0	Pass
CH48	5240	10.76	12.16	20.54	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.32	15.63	18.32	18.63	21.0	Pass
CH46	5230	16.97	17.29	19.97	20.29	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.47	14.67	20.12	21.0	Pass
CH46	5230	13.46	14.80	20.19	21.0	Pass

Mode 3 Transmit by 802.11n(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.40	11.62	20.07	21.0	Pass
CH46	5230	10.51	11.83	20.24	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.06	17.34	20.06	20.34	21.0	Pass
CH40	5200	17.10	17.53	20.10	20.53	21.0	Pass
CH44	5220	17.19	17.44	20.19	20.44	21.0	Pass
CH48	5240	17.07	17.50	20.07	20.50	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.93	14.81	20.40	21.0	Pass
CH40	5200	13.68	14.99	20.39	21.0	Pass
CH44	5220	13.81	15.15	20.54	21.0	Pass
CH48	5240	13.73	15.08	20.47	21.0	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.90	11.76	20.37	21.0	Pass
CH40	5200	10.66	11.91	20.35	21.0	Pass
CH44	5220	10.73	12.18	20.53	21.0	Pass
CH48	5240	10.68	11.99	20.41	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.46	15.69	18.46	18.69	21.0	Pass
CH46	5230	17.09	17.15	20.09	20.15	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.52	14.64	20.13	21.0	Pass
CH46	5230	13.54	14.75	20.20	21.0	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.45	11.72	20.15	21.0	Pass
CH46	5230	10.51	11.69	20.16	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	15.01	15.03	18.01	18.03	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.89	14.83	20.40	21.0	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	10.92	11.59	20.29	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH36	5180	17.13	17.26	20.13	20.26	21.0	Pass
CH40	5200	17.24	17.39	20.24	20.39	21.0	Pass
CH44	5220	17.16	17.61	20.16	20.61	21.0	Pass
CH48	5240	17.18	17.56	20.18	20.56	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	13.82	14.87	20.39	21.0	Pass
CH40	5200	13.73	15.06	20.46	21.0	Pass
CH44	5220	13.74	15.02	20.44	21.0	Pass
CH48	5240	13.80	15.11	20.51	21.0	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH36	5180	10.76	11.91	20.39	21.0	Pass
CH40	5200	10.74	12.04	20.46	21.0	Pass
CH44	5220	10.77	11.93	20.41	21.0	Pass
CH48	5240	10.75	12.11	20.50	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH38	5190	15.32	15.66	18.32	18.66	21.0	Pass
CH46	5230	17.11	17.18	20.11	20.18	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	13.48	14.66	20.12	21.0	Pass
CH46	5230	13.56	14.84	20.26	21.0	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH38	5190	10.49	11.60	20.10	21.0	Pass
CH46	5230	10.54	11.80	20.24	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with SISO							
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)		Limit (dBm)	Result
		Ant3	Ant4	Ant3	Ant4		
CH42	5210	14.98	15.06	17.98	18.06	21.0	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	13.92	14.81	20.40	21.0	Pass

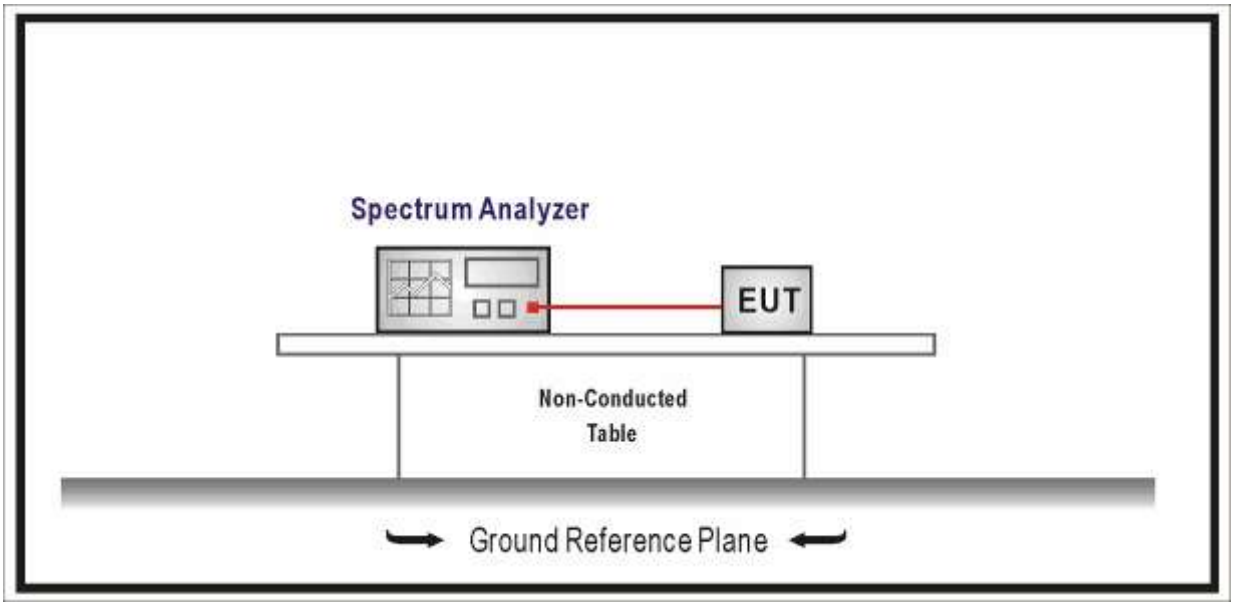
Mode 9: Transmit by 802.11ax(80MHz) with Beam-forming						
Channel No.	Frequency (MHz)	Measurement Power(dBm)		EIRP (dBm)	Limit (dBm)	Result
		Ant3	Ant4			
CH42	5210	10.91	11.63	20.30	21.0	Pass

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	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
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

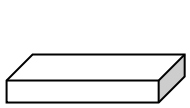
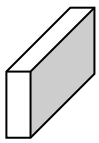
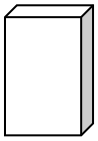
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}＞6dBi, then Pout≤17 - (G_{TX} - 6)
	☒	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}＞6dBi,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

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☒	KDB 662911		F2)e)	Spatial stream
	☐	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
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	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

8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

8.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Power Spectral Density</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Client use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
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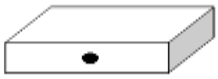
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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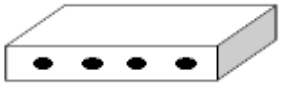
<tr><td></td><td colspan="3">  </td></tr>
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8.6. Test Result

Product Name	:	Wireless Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~9	Test Site	:	TR8
Test Date	:	2020.11.30	Test Engineer	:	Jun
Antenna	:	OMNI Antenna			

Radio 0:

Mode 1: Transmit by 802.11a with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH36	5180	7.101	0.25	7.351	16.4	Pass
CH44	5220	6.826	0.25	7.076	16.4	Pass
CH48	5240	6.678	0.25	6.928	16.4	Pass
CH52	5260	8.067	0.25	8.317	10.4	Pass
CH60	5300	7.246	0.25	7.496	10.4	Pass
CH64	5320	7.908	0.25	8.158	10.4	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	4.448	0.25	7.708	13.39	Pass
CH44	5220	5.853	0.25	9.113	13.39	Pass
CH48	5240	6.008	0.25	9.268	13.39	Pass
CH52	5260	3.759	0.25	7.019	7.39	Pass
CH60	5300	2.541	0.25	5.801	7.39	Pass
CH64	5320	3.394	0.25	6.654	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 2: Transmit by 802.11n(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH36	5180	6.262	0.24	6.502	16.4	Pass
CH44	5220	6.581	0.24	6.821	16.4	Pass
CH48	5240	6.454	0.24	6.694	16.4	Pass
CH52	5260	7.381	0.24	7.621	10.4	Pass
CH60	5300	6.527	0.24	6.767	10.4	Pass
CH64	5320	7.079	0.24	7.319	10.4	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	4.373	0.24	7.623	13.39	Pass
CH44	5220	5.980	0.24	9.23	13.39	Pass
CH48	5240	6.277	0.24	9.527	13.39	Pass
CH52	5260	3.026	0.24	6.276	7.39	Pass
CH60	5300	2.517	0.24	5.767	7.39	Pass
CH64	5320	3.001	0.24	6.251	7.39	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	2.665	0.24	5.915	13.39	Pass
CH44	5220	2.520	0.24	5.77	13.39	Pass
CH48	5240	2.544	0.24	5.794	13.39	Pass
CH52	5260	1.249	0.24	4.499	7.39	Pass
CH60	5300	0.868	0.24	4.118	7.39	Pass
CH64	5320	1.494	0.24	4.744	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 3: Transmit by 802.11n(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH38	5190	1.141	0.60	1.741	16.4	Pass
CH46	5230	4.079	0.60	4.679	16.4	Pass
CH54	5270	3.810	0.60	4.41	10.4	Pass
CH62	5310	3.866	0.60	4.466	10.4	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.423	0.60	3.187	13.39	Pass
CH46	5230	3.255	0.60	6.865	13.39	Pass
CH54	5270	1.630	0.60	5.24	7.39	Pass
CH62	5310	-0.507	0.60	3.103	7.39	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.691	0.60	2.919	13.39	Pass
CH46	5230	-1.019	0.60	2.591	13.39	Pass
CH54	5270	-2.148	0.60	1.462	7.39	Pass
CH62	5310	-2.088	0.60	1.522	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 4: Transmit by 802.11ac(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH36	5180	6.302	0.09	6.392	16.4	Pass
CH44	5220	6.256	0.09	6.346	16.4	Pass
CH48	5240	6.256	0.09	6.346	16.4	Pass
CH52	5260	7.317	0.09	7.407	10.4	Pass
CH60	5300	6.734	0.09	6.824	10.4	Pass
CH64	5320	7.120	0.09	7.21	10.4	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	4.075	0.09	7.175	13.39	Pass
CH44	5220	5.828	0.09	8.928	13.39	Pass
CH48	5240	6.049	0.09	9.149	13.39	Pass
CH52	5260	3.158	0.09	6.258	7.39	Pass
CH60	5300	2.706	0.09	5.806	7.39	Pass
CH64	5320	3.292	0.09	6.392	7.39	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	3.068	0.09	6.168	13.39	Pass
CH44	5220	2.408	0.09	5.508	13.39	Pass
CH48	5240	2.628	0.09	5.728	13.39	Pass
CH52	5260	1.058	0.09	4.158	7.39	Pass
CH60	5300	0.756	0.09	3.856	7.39	Pass
CH64	5320	1.357	0.09	4.457	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 5: Transmit by 802.11ac(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH38	5190	1.019	0.32	1.339	16.4	Pass
CH46	5230	3.678	0.32	3.998	16.4	Pass
CH54	5270	3.833	0.32	4.153	10.4	Pass
CH62	5310	3.783	0.32	4.103	10.4	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.528	0.32	2.802	13.39	Pass
CH46	5230	3.325	0.32	6.655	13.39	Pass
CH54	5270	1.612	0.32	4.942	7.39	Pass
CH62	5310	-0.144	0.32	3.186	7.39	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.536	0.32	2.794	13.39	Pass
CH46	5230	-0.627	0.32	2.703	13.39	Pass
CH54	5270	-2.165	0.32	1.165	7.39	Pass
CH62	5310	-2.179	0.32	1.151	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 6: Transmit by 802.11ac(80MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH42	5210	-1.949	0.61	-1.339	16.4	Pass
CH58	5290	-1.957	0.61	-1.347	10.4	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH42	5210	-3.336	0.61	0.284	13.39	Pass
CH58	5290	-3.304	0.61	0.316	7.39	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH42	5210	-4.239	0.61	-0.619	13.39	Pass
CH58	5290	-4.353	0.61	-0.733	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 7: Transmit by 802.11ax(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH36	5180	6.387	0.14	6.527	16.4	Pass
CH44	5220	6.337	0.14	6.477	16.4	Pass
CH48	5240	6.239	0.14	6.379	16.4	Pass
CH52	5260	7.327	0.14	7.467	10.4	Pass
CH60	5300	6.451	0.14	6.591	10.4	Pass
CH64	5320	7.154	0.14	7.294	10.4	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	4.347	0.14	7.497	13.39	Pass
CH44	5220	6.187	0.14	9.337	13.39	Pass
CH48	5240	5.865	0.14	9.015	13.39	Pass
CH52	5260	3.374	0.14	6.524	7.39	Pass
CH60	5300	2.680	0.14	5.83	7.39	Pass
CH64	5320	3.169	0.14	6.319	7.39	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH36	5180	2.368	0.14	5.518	13.39	Pass
CH44	5220	2.378	0.14	5.528	13.39	Pass
CH48	5240	2.515	0.14	5.665	13.39	Pass
CH52	5260	1.166	0.14	4.316	7.39	Pass
CH60	5300	0.850	0.14	4.000	7.39	Pass
CH64	5320	1.640	0.14	4.790	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 8: Transmit by 802.11ax(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH38	5190	1.111	0.36	1.471	16.4	Pass
CH46	5230	4.012	0.36	4.372	16.4	Pass
CH54	5270	3.916	0.36	4.276	10.4	Pass
CH62	5310	4.156	0.36	4.516	10.4	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.407	0.36	2.963	13.39	Pass
CH46	5230	3.148	0.36	6.518	13.39	Pass
CH54	5270	2.087	0.36	5.457	7.39	Pass
CH62	5310	-0.249	0.36	3.121	7.39	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH38	5190	-0.868	0.36	2.502	13.39	Pass
CH46	5230	-0.840	0.36	2.530	13.39	Pass
CH54	5270	-2.236	0.36	1.134	7.39	Pass
CH62	5310	-2.245	0.36	1.125	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 9: Transmit by 802.11ax(80MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1		Ant1		
CH42	5210	-2.018	0.72	-1.298	16.4	Pass
CH58	5290	-1.634	0.72	-0.914	10.4	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH42	5210	-3.140	0.72	0.590	13.39	Pass
CH58	5290	-3.674	0.72	0.056	7.39	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant1				
CH42	5210	-4.364	0.72	-0.634	13.39	Pass
CH58	5290	-4.575	0.72	-0.845	7.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Radio 1:

Mode 1: Transmit by 802.11a with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH36	5180	7.010	0.25	7.26	16.4	Pass
CH44	5220	8.925	0.25	9.175	16.4	Pass
CH48	5240	8.949	0.25	9.199	16.4	Pass
CH52	5260	9.070	0.25	9.32	10.4	Pass
CH60	5300	8.851	0.25	9.101	10.4	Pass
CH64	5320	7.653	0.25	7.903	10.4	Pass
CH100	5500	8.870	0.25	9.12	10.4	Pass
CH116	5580	8.687	0.25	8.937	10.4	Pass
CH140	5700	8.206	0.25	8.456	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH149	5745	4.743	0.25	4.993	29.4	Pass
CH157	5785	4.707	0.25	4.957	29.4	Pass
CH165	5825	4.580	0.25	4.83	29.4	Pass

Mode 1: Transmit by 802.11a with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	5.810	0.25	9.070	13.39	Pass
CH44	5220	8.416	0.25	11.676	13.39	Pass
CH48	5240	8.007	0.25	11.267	13.39	Pass
CH52	5260	3.605	0.25	6.865	7.39	Pass
CH60	5300	2.968	0.25	6.228	7.39	Pass
CH64	5320	3.224	0.25	6.484	7.39	Pass
CH100	5500	3.414	0.25	6.674	7.39	Pass
CH116	5580	3.292	0.25	6.552	7.39	Pass
CH140	5700	2.507	0.25	5.767	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH149	5745	4.458	0.25	7.718	26.39	Pass
CH157	5785	4.685	0.25	7.945	26.39	Pass
CH165	5825	4.387	0.25	7.647	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 2: Transmit by 802.11n(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH36	5180	6.280	0.24	6.52	16.4	Pass
CH44	5220	8.155	0.24	8.395	16.4	Pass
CH48	5240	7.981	0.24	8.221	16.4	Pass
CH52	5260	8.832	0.24	9.072	10.4	Pass
CH60	5300	8.465	0.24	8.705	10.4	Pass
CH64	5320	7.310	0.24	7.55	10.4	Pass
CH100	5500	8.350	0.24	8.59	10.4	Pass
CH116	5580	8.125	0.24	8.365	10.4	Pass
CH140	5700	7.487	0.24	7.727	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH149	5745	4.098	0.24	4.338	29.4	Pass
CH157	5785	4.578	0.24	4.818	29.4	Pass
CH165	5825	4.422	0.24	4.662	29.4	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	5.357	0.24	8.607	13.39	Pass
CH44	5220	8.179	0.24	11.429	13.39	Pass
CH48	5240	8.207	0.24	11.457	13.39	Pass
CH52	5260	3.305	0.24	6.555	7.39	Pass
CH60	5300	3.122	0.24	6.372	7.39	Pass
CH64	5320	2.936	0.24	6.186	7.39	Pass
CH100	5500	2.886	0.24	6.136	7.39	Pass
CH116	5580	2.835	0.24	6.085	7.39	Pass
CH140	5700	2.162	0.24	5.412	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH149	5745	4.293	0.24	7.543	26.39	Pass
CH157	5785	4.613	0.24	7.863	26.39	Pass
CH165	5825	4.370	0.24	7.620	26.39	Pass

Mode 2: Transmit by 802.11n(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	3.779	0.24	7.029	13.39	Pass
CH44	5220	3.441	0.24	6.691	13.39	Pass
CH48	5240	3.458	0.24	6.708	13.39	Pass
CH52	5260	3.373	0.24	6.623	7.39	Pass
CH60	5300	2.900	0.24	6.150	7.39	Pass
CH64	5320	2.836	0.24	6.086	7.39	Pass
CH100	5500	2.893	0.24	6.143	7.39	Pass
CH116	5580	2.739	0.24	5.989	7.39	Pass
CH140	5700	1.616	0.24	4.866	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH149	5745	4.040	0.24	7.290	26.39	Pass
CH157	5785	4.113	0.24	7.363	26.39	Pass
CH165	5825	4.253	0.24	7.503	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 3: Transmit by 802.11n(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH38	5190	2.045	0.60	2.645	16.4	Pass
CH46	5230	4.967	0.60	5.567	16.4	Pass
CH54	5270	5.436	0.60	6.036	10.4	Pass
CH62	5310	1.903	0.60	2.503	10.4	Pass
CH102	5510	3.391	0.60	3.991	10.4	Pass
CH134	5670	4.081	0.60	4.681	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH151	5755	1.222	0.60	1.822	29.4	Pass
CH159	5795	1.671	0.60	2.271	29.4	Pass

Mode 3: Transmit by 802.11n(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	0.997	0.60	4.607	13.39	Pass
CH46	5230	4.801	0.60	8.411	13.39	Pass
CH54	5270	3.541	0.60	7.151	7.39	Pass
CH62	5310	0.335	0.60	3.945	7.39	Pass
CH102	5510	2.651	0.60	6.261	7.39	Pass
CH134	5670	2.097	0.60	5.707	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH151	5755	1.333	0.60	4.943	26.39	Pass
CH159	5795	1.760	0.60	5.370	26.39	Pass

Mode 3: Transmit by 802.11n(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	0.502	0.60	4.112	13.39	Pass
CH46	5230	0.458	0.60	4.068	13.39	Pass
CH54	5270	0.217	0.60	3.827	7.39	Pass
CH62	5310	-0.145	0.60	3.465	7.39	Pass
CH102	5510	-0.589	0.60	3.021	7.39	Pass
CH134	5670	-1.017	0.60	2.593	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH151	5755	1.584	0.60	5.194	26.39	Pass
CH159	5795	1.598	0.60	5.208	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 4: Transmit by 802.11ac(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH36	5180	6.613	0.09	6.703	16.4	Pass
CH44	5220	8.247	0.09	8.337	16.4	Pass
CH48	5240	8.234	0.09	8.324	16.4	Pass
CH52	5260	8.716	0.09	8.806	10.4	Pass
CH60	5300	8.347	0.09	8.437	10.4	Pass
CH64	5320	7.129	0.09	7.219	10.4	Pass
CH100	5500	8.228	0.09	8.318	10.4	Pass
CH116	5580	7.970	0.09	8.06	10.4	Pass
CH140	5700	7.433	0.09	7.523	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH149	5745	4.529	0.09	4.619	29.4	Pass
CH157	5785	4.529	0.09	4.619	29.4	Pass
CH165	5825	4.473	0.09	4.563	29.4	Pass

Mode 4: Transmit by 802.11ac(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	5.380	0.09	8.480	13.39	Pass
CH44	5220	8.373	0.09	11.473	13.39	Pass
CH48	5240	8.274	0.09	11.374	13.39	Pass
CH52	5260	3.066	0.09	6.166	7.39	Pass
CH60	5300	3.094	0.09	6.194	7.39	Pass
CH64	5320	3.032	0.09	6.132	7.39	Pass
CH100	5500	2.544	0.09	5.644	7.39	Pass
CH116	5580	2.892	0.09	5.992	7.39	Pass
CH140	5700	2.096	0.09	5.196	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH149	5745	4.119	0.09	7.219	26.39	Pass
CH157	5785	4.631	0.09	7.731	26.39	Pass
CH165	5825	4.392	0.09	7.492	26.39	Pass

Mode 4: Transmit by 802.11ac(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	3.732	0.09	6.832	13.39	Pass
CH44	5220	3.616	0.09	6.716	13.39	Pass
CH48	5240	3.557	0.09	6.657	13.39	Pass
CH52	5260	3.120	0.09	6.220	7.39	Pass
CH60	5300	2.870	0.09	5.970	7.39	Pass
CH64	5320	3.001	0.09	6.101	7.39	Pass
CH100	5500	2.791	0.09	5.891	7.39	Pass
CH116	5580	2.737	0.09	5.837	7.39	Pass
CH140	5700	1.988	0.09	5.088	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH149	5745	4.106	0.09	7.206	26.39	Pass
CH157	5785	4.275	0.09	7.375	26.39	Pass
CH165	5825	4.329	0.09	7.429	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 5: Transmit by 802.11ac(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH38	5190	2.021	0.32	2.341	16.4	Pass
CH46	5230	4.852	0.32	5.172	16.4	Pass
CH54	5270	5.609	0.32	5.929	10.4	Pass
CH62	5310	1.713	0.32	2.033	10.4	Pass
CH102	5510	3.095	0.32	3.415	10.4	Pass
CH134	5670	4.329	0.32	4.649	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH151	5755	1.505	0.32	1.825	29.4	Pass
CH159	5795	1.342	0.32	1.662	29.4	Pass

Mode 5: Transmit by 802.11ac(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	1.200	0.32	4.530	13.39	Pass
CH46	5230	4.228	0.32	7.558	13.39	Pass
CH54	5270	3.457	0.32	6.787	7.39	Pass
CH62	5310	0.415	0.32	3.745	7.39	Pass
CH102	5510	2.741	0.32	6.071	7.39	Pass
CH134	5670	2.272	0.32	5.602	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH151	5755	0.991	0.32	4.321	26.39	Pass
CH159	5795	1.426	0.32	4.756	26.39	Pass

Mode 5: Transmit by 802.11ac(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	0.519	0.32	3.849	13.39	Pass
CH46	5230	0.495	0.32	3.825	13.39	Pass
CH54	5270	-0.188	0.32	3.142	7.39	Pass
CH62	5310	-0.106	0.32	3.224	7.39	Pass
CH102	5510	-0.325	0.32	3.005	7.39	Pass
CH134	5670	-0.738	0.32	2.592	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH151	5755	1.249	0.32	4.579	26.39	Pass
CH159	5795	1.264	0.32	4.594	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 6: Transmit by 802.11ac(80MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH42	5210	-1.186	0.61	-0.576	16.4	Pass
CH58	5290	-0.714	0.61	-0.104	10.4	Pass
CH106	5530	-0.684	0.61	-0.074	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH155	5775	-0.757	0.61	-0.147	29.4	Pass

Mode 6: Transmit by 802.11ac(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH42	5210	-1.798	0.61	1.822	13.39	Pass
CH58	5290	-2.890	0.61	0.730	7.39	Pass
CH106	5530	-2.184	0.61	1.436	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH155	5775	-1.029	0.61	2.591	26.39	Pass

Mode 6: Transmit by 802.11ac(80MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH42	5210	-2.013	0.61	1.607	13.39	Pass
CH58	5290	-2.787	0.61	0.833	7.39	Pass
CH106	5530	-3.497	0.61	0.123	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH155	5775	-1.472	0.61	2.148	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 7: Transmit by 802.11ax(20MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH36	5180	6.615	0.14	6.755	16.4	Pass
CH44	5220	8.081	0.14	8.221	16.4	Pass
CH48	5240	8.320	0.14	8.46	16.4	Pass
CH52	5260	8.808	0.14	8.948	10.4	Pass
CH60	5300	8.448	0.14	8.588	10.4	Pass
CH64	5320	7.238	0.14	7.378	10.4	Pass
CH100	5500	8.212	0.14	8.352	10.4	Pass
CH116	5580	7.833	0.14	7.973	10.4	Pass
CH140	5700	7.693	0.14	7.833	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH149	5745	4.212	0.14	4.352	29.4	Pass
CH157	5785	4.592	0.14	4.732	29.4	Pass
CH165	5825	4.356	0.14	4.496	29.4	Pass

Mode 7: Transmit by 802.11ax(20MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	5.386	0.14	8.536	13.39	Pass
CH44	5220	8.015	0.14	11.165	13.39	Pass
CH48	5240	8.186	0.14	11.336	13.39	Pass
CH52	5260	3.224	0.14	6.374	7.39	Pass
CH60	5300	3.225	0.14	6.375	7.39	Pass
CH64	5320	3.180	0.14	6.330	7.39	Pass
CH100	5500	2.937	0.14	6.087	7.39	Pass
CH116	5580	3.040	0.14	6.190	7.39	Pass
CH140	5700	2.088	0.14	5.238	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH149	5745	4.131	0.14	7.281	26.39	Pass
CH157	5785	4.016	0.14	7.166	26.39	Pass
CH165	5825	4.210	0.14	7.360	26.39	Pass

Mode 7: Transmit by 802.11ax(20MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH36	5180	3.940	0.14	7.090	13.39	Pass
CH44	5220	3.680	0.14	6.830	13.39	Pass
CH48	5240	3.531	0.14	6.681	13.39	Pass
CH52	5260	2.987	0.14	6.137	7.39	Pass
CH60	5300	2.794	0.14	5.944	7.39	Pass
CH64	5320	2.576	0.14	5.726	7.39	Pass
CH100	5500	3.138	0.14	6.288	7.39	Pass
CH116	5580	2.650	0.14	5.800	7.39	Pass
CH140	5700	1.989	0.14	5.139	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH149	5745	4.243	0.14	7.393	26.39	Pass
CH157	5785	4.345	0.14	7.495	26.39	Pass
CH165	5825	4.263	0.14	7.413	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 8: Transmit by 802.11ax(40MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH38	5190	1.943	0.36	2.303	16.4	Pass
CH46	5230	4.758	0.36	5.118	16.4	Pass
CH54	5270	5.670	0.36	6.03	10.4	Pass
CH62	5310	1.542	0.36	1.902	10.4	Pass
CH102	5510	3.416	0.36	3.776	10.4	Pass
CH134	5670	3.894	0.36	4.254	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH151	5755	1.451	0.36	1.811	29.4	Pass
CH159	5795	1.563	0.36	1.923	29.4	Pass

Mode 8: Transmit by 802.11ax(40MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	0.851	0.36	4.221	13.39	Pass
CH46	5230	4.334	0.36	7.704	13.39	Pass
CH54	5270	3.558	0.36	6.928	7.39	Pass
CH62	5310	0.378	0.36	3.748	7.39	Pass
CH102	5510	2.641	0.36	6.011	7.39	Pass
CH134	5670	2.064	0.36	5.434	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH151	5755	1.209	0.36	4.579	26.39	Pass
CH159	5795	1.469	0.36	4.839	26.39	Pass

Mode 8: Transmit by 802.11ax(40MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH38	5190	0.645	0.36	4.015	13.39	Pass
CH46	5230	0.242	0.36	3.612	13.39	Pass
CH54	5270	0.003	0.36	3.373	7.39	Pass
CH62	5310	-0.588	0.36	2.782	7.39	Pass
CH102	5510	-0.667	0.36	2.703	7.39	Pass
CH134	5670	-0.850	0.36	2.520	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH151	5755	1.030	0.36	4.400	26.39	Pass
CH159	5795	1.280	0.36	4.650	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Mode 9: Transmit by 802.11ax(80MHz) with SISO						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3		Ant3		
CH42	5210	-0.965	0.72	-0.245	16.4	Pass
CH58	5290	-0.892	0.72	-0.172	10.4	Pass
CH106	5530	-0.699	0.72	0.021	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3		Ant3		
CH155	5775	-0.803	0.72	-0.083	29.4	Pass

Mode 9: Transmit by 802.11ax(80MHz) with CDD						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH42	5210	-1.789	0.72	1.941	13.39	Pass
CH58	5290	-3.091	0.72	0.639	7.39	Pass
CH106	5530	-2.025	0.72	1.705	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500KHz)
		Ant3				
CH155	5775	-1.171	0.72	2.559	26.39	Pass

Mode 9: Transmit by 802.11ax(80MHz) with Beamforming						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty factor	Total Measurement PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant3				
CH42	5210	-2.104	0.72	1.626	13.39	Pass
CH58	5290	-2.951	0.72	0.779	7.39	Pass
CH106	5530	-3.326	0.72	0.404	7.39	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty factor	Total Measurement PSD (dBm/500KHz)	Limit (dBm/500KHz)	Limit (dBm/500 KHz)
		Ant3				
CH155	5775	-0.938	0.72	2.792	26.39	Pass

Note1: Limit=PSD limit-(directional gain-6)

Note: 1: We have evaluated both CDD and Beamforming mode, shown in the report is the worst data.

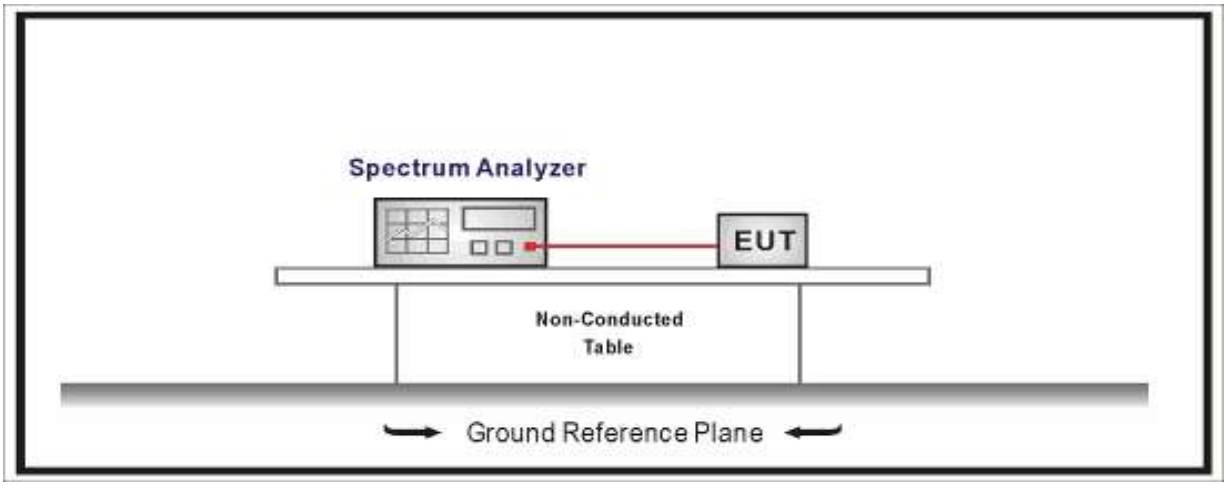
Note: 2: We have evaluated all modes, channels, bandwidths and different antennas, shown in the report is the worst data.

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	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup



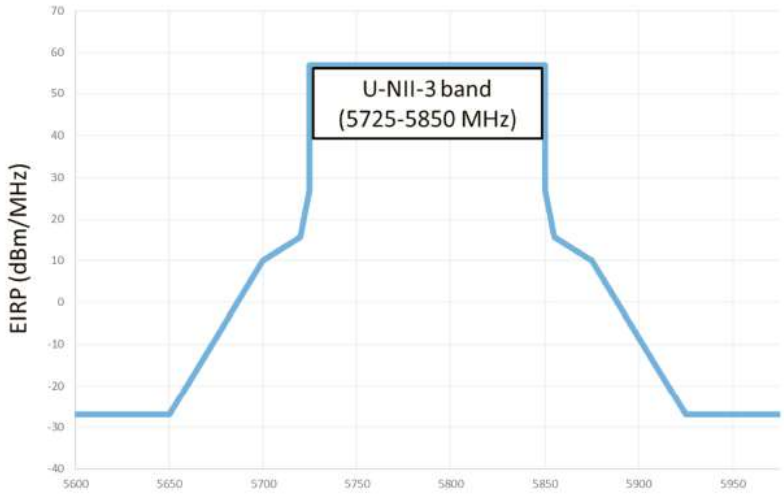
9.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dBµV/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).

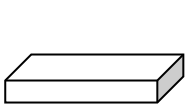
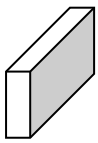
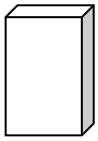
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	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			

FCC Part 15 Subpart E Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBµV/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		

9.4. Test Procedure

Test Method					
	References Rule			Chapter	Description
☐	ANSI C63.10			12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10			12.7.2	Emissions in restricted frequency bands
	☐	ANSI C63.10		12.7.5	Radiated emission measurements
	☒	ANSI C63.10		12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10		12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
		☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
		☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☐	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v02r01			G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01			G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v02r01		G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v02r01		G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
		☐	FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">Band Edge</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
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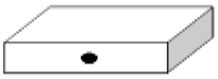
<tr><td>☒</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
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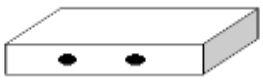
<tr><td></td><td colspan="4">  </td></tr>
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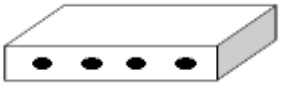
<tr><td></td><td colspan="4">  </td></tr>
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9.6. Test Result

OMNI Antenna

Eth1/ Eth2:

SISO PK Limit=74dBuV/m-95.2-6.6(Antenna Gain)=-27.80dBm

SISO AV Limit=54dBuV/m-95.2-3.97(Antenna Gain)=-47.80dBm

CDD PK Limit=74dBuV/m-95.2-10lg2(2Tx)-9.61(Directional Gain)=-33.82dBm

CDD AV Limit=54dBuV/m-95.2-10lg2(2Tx)-9.61(Directional Gain)=-53.82dBm

Beamforming PK Limit=74dBuV/m-95.2-10lg2(2Tx)-9.61(Directional Gain)=-33.82dBm

Beamforming AV Limit=54dBuV/m-95.2-10lg2(2Tx)-9.61(Directional Gain)=-53.82dBm

Sector Antenna

Eth1/ Eth2:

SISO PK Limit=74dBuV/m-95.2-7.2(Antenna Gain)=-28.40dBm

SISO AV Limit=54dBuV/m-95.2-7.2(Antenna Gain)=-48.40dBm

CDD PK Limit=74dBuV/m-95.2-10lg2(2Tx)-7.2(Directional Gain)=-31.41dBm

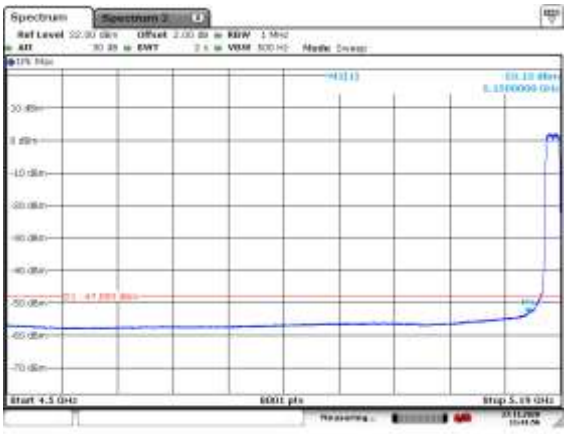
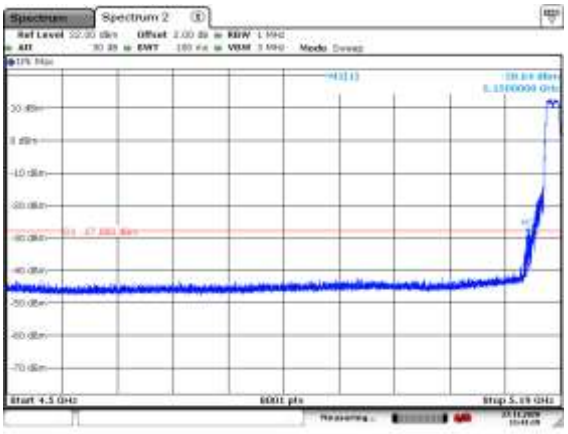
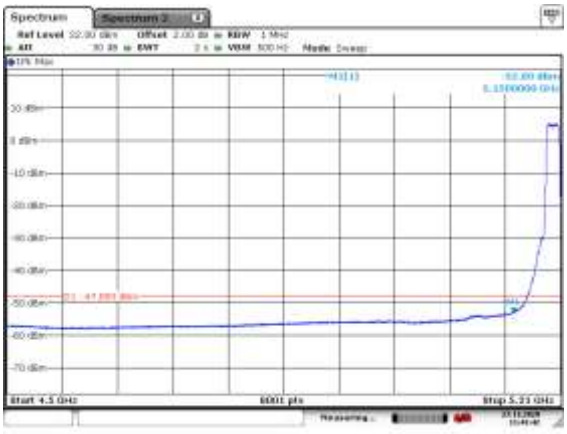
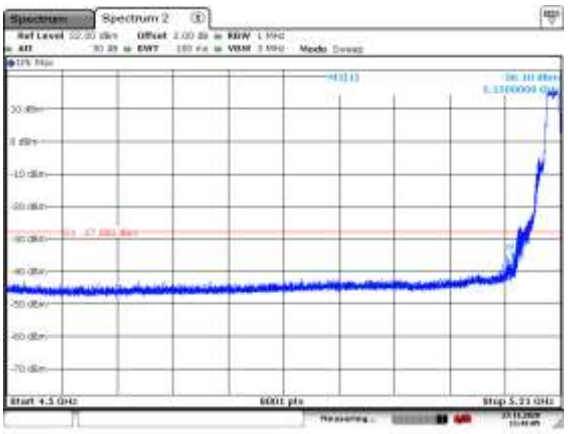
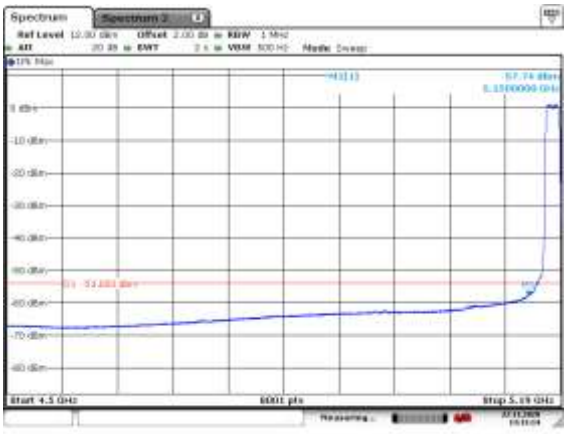
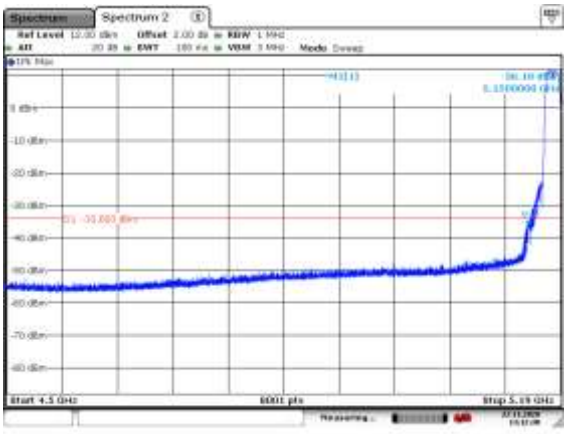
CDD AV Limit=54dBuV/m-95.2-10lg2(2Tx)-7.2(Directional Gain)=-51.41dBm

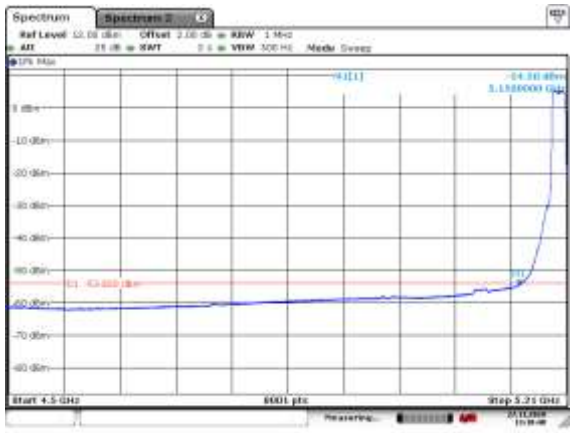
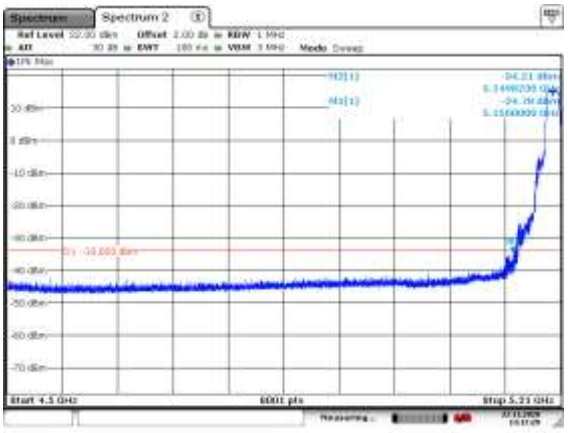
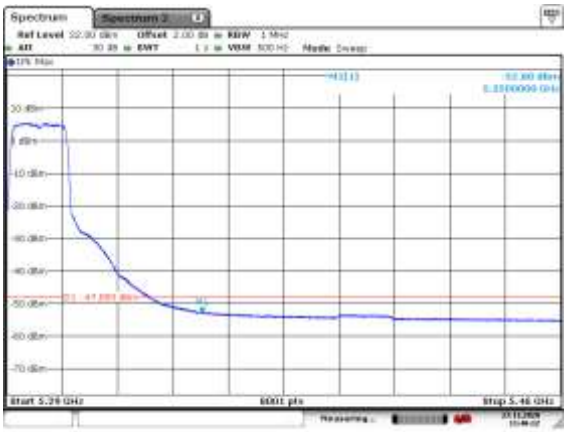
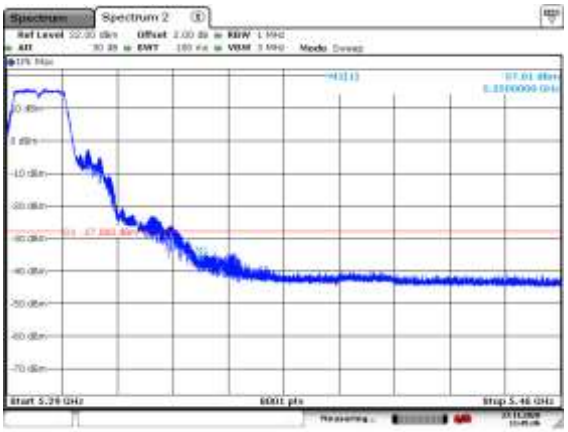
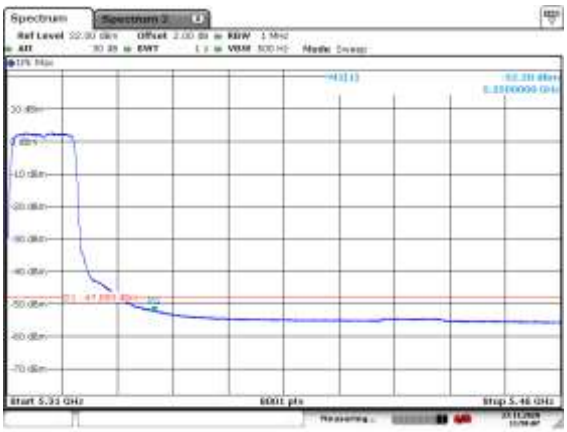
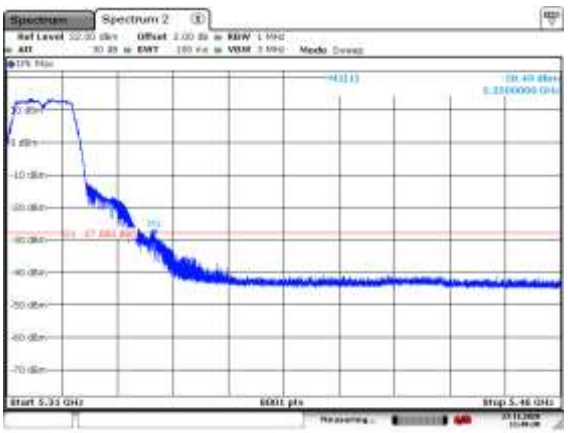
Beamforming PK Limit=74dBuV/m-95.2-10lg2(2Tx)-7.2(Directional Gain)=-31.41dBm

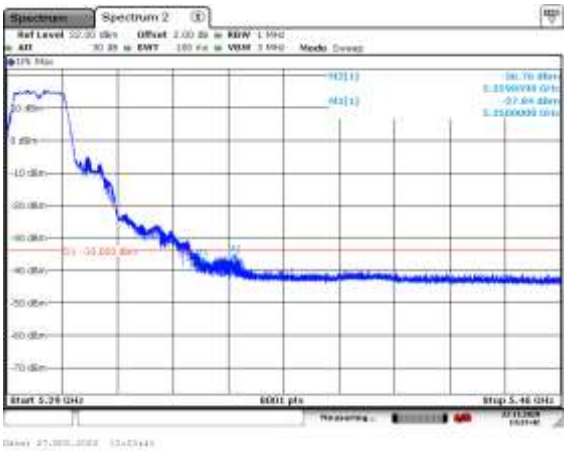
Beamforming AV Limit=54dBuV/m-95.2-10lg2(2Tx)-7.2(Directional Gain)=-51.41dBm

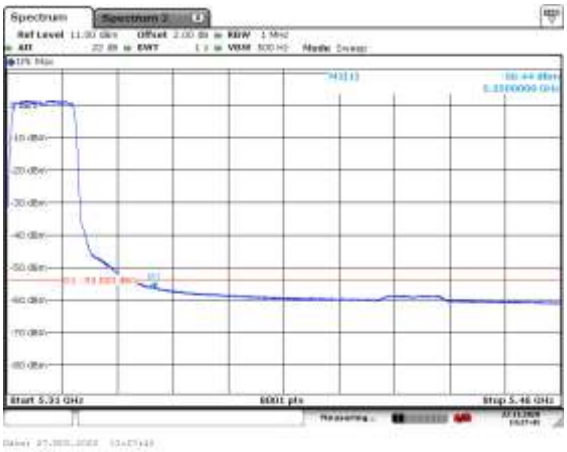
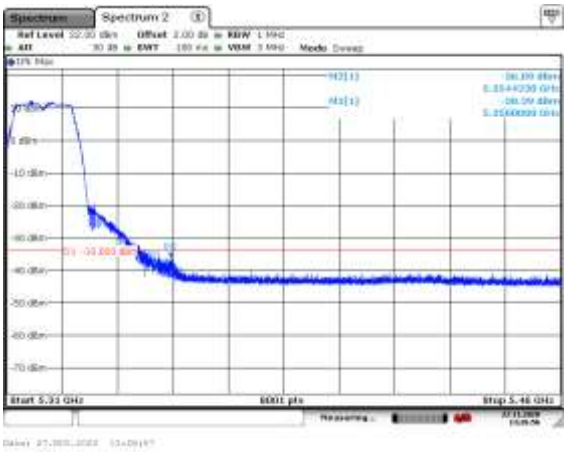
Eth1:

802.11a

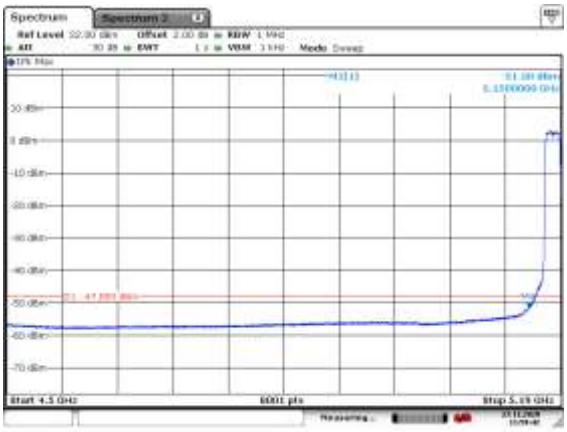
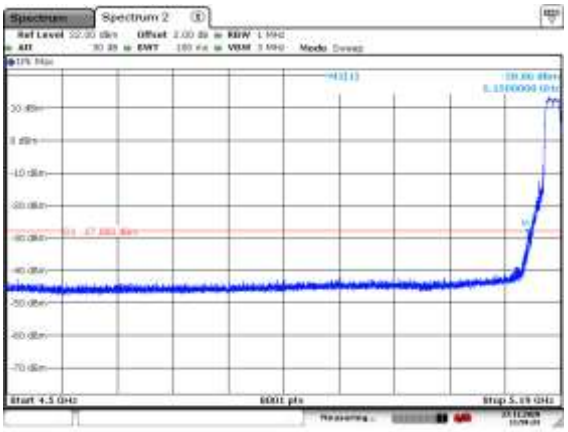
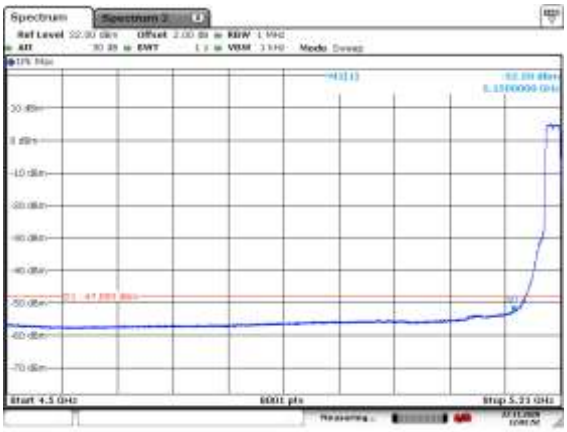
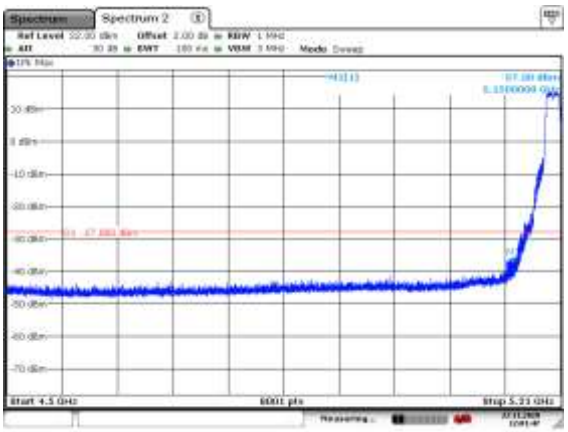
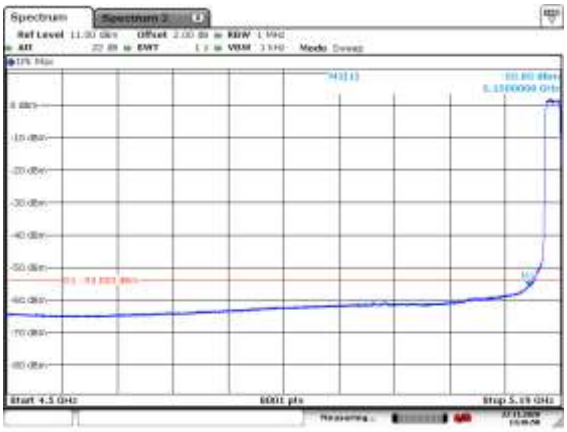
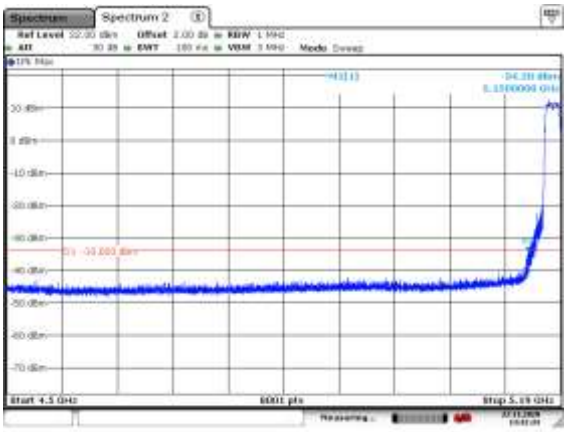
5180MHz with SISO	5180MHz with SISO
	
5200MHz with SISO	5200MHz with SISO
	
5180MHz with CDD	5180MHz with CDD
	

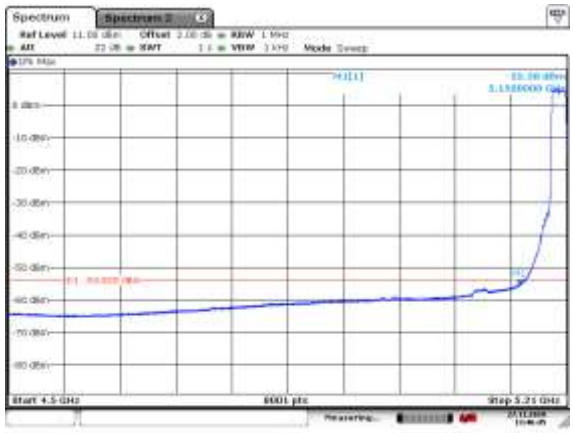
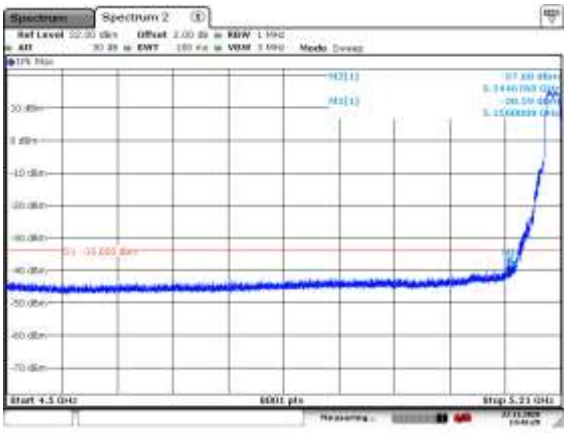
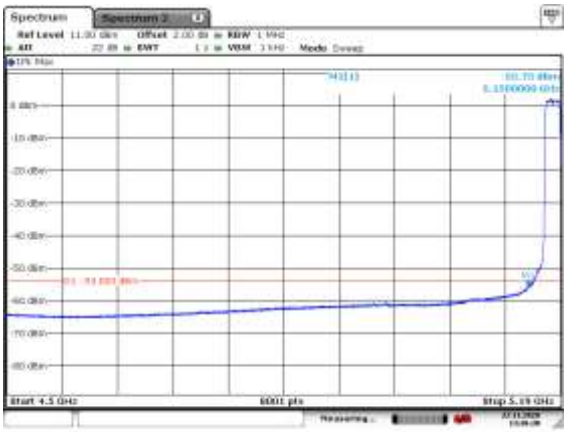
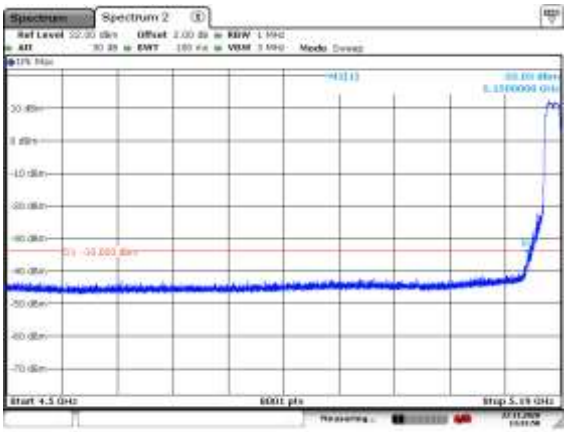
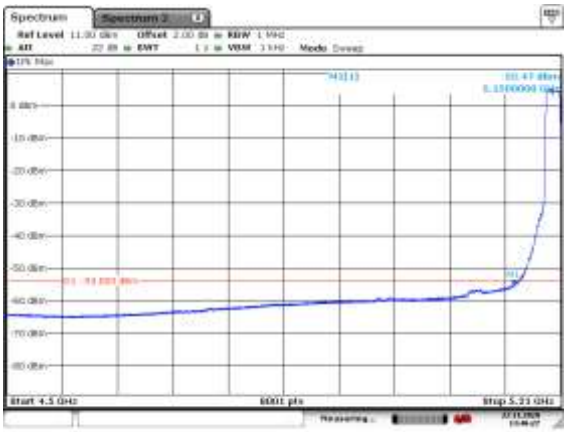
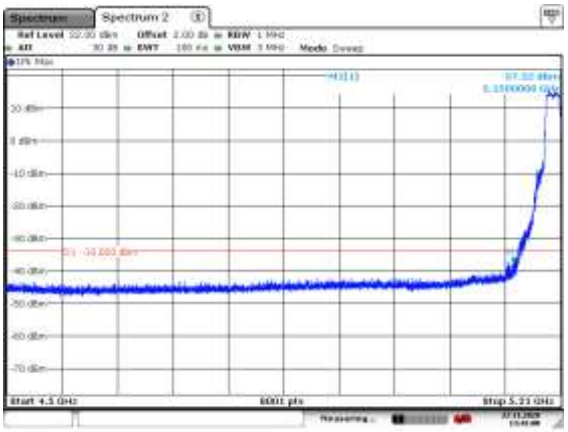
5200MHz with CDD	5200MHz with CDD
	
5300MHz with SISO	5300MHz with SISO
	
5320MHz with SISO	5320MHz with SISO
	

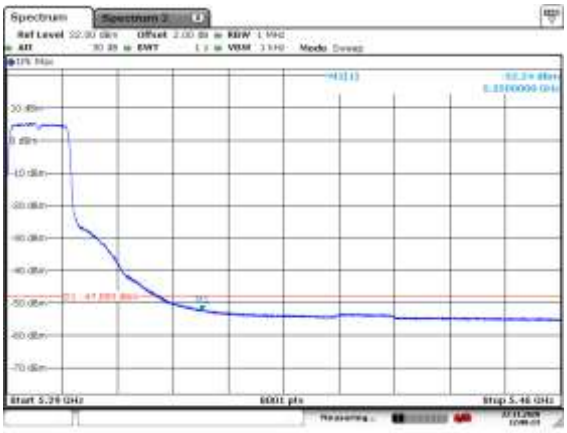
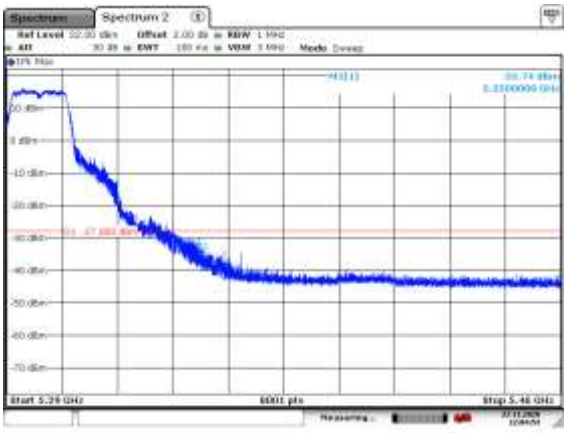
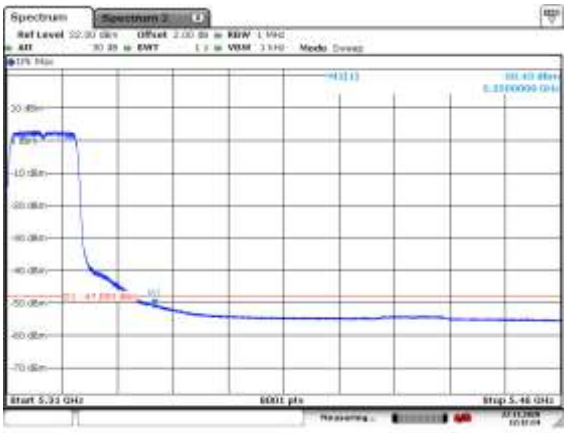
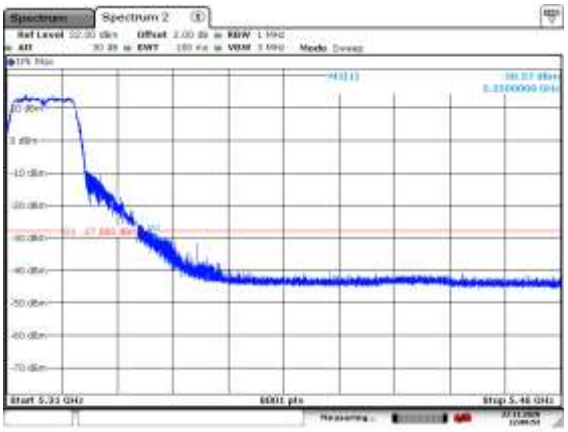
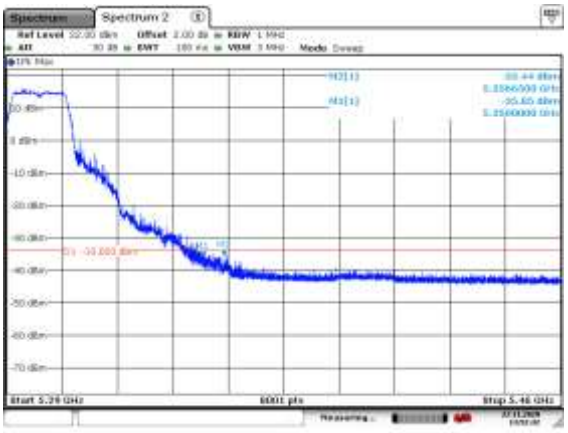
5300MHz with CDD	5300MHz with CDD
	

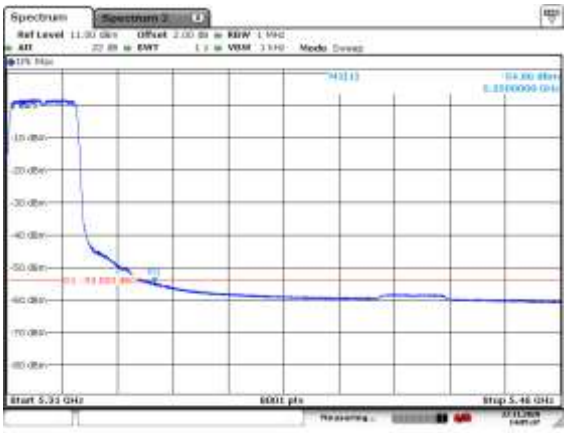
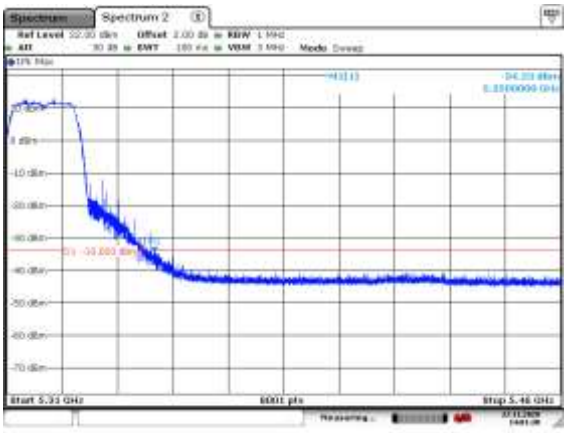
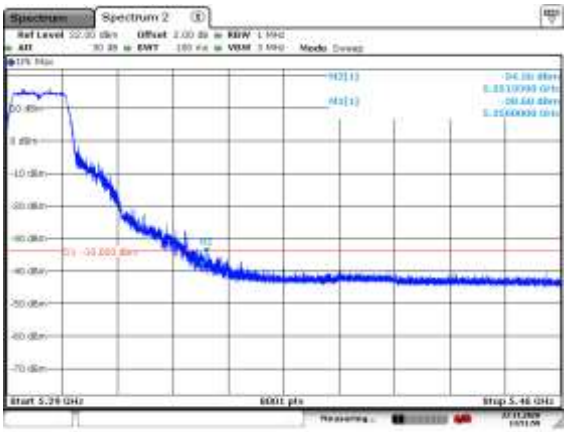
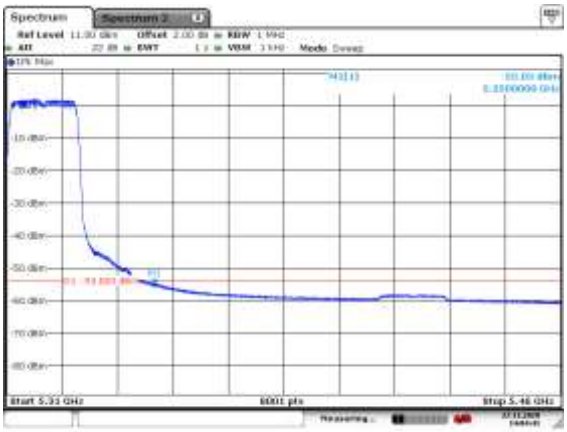
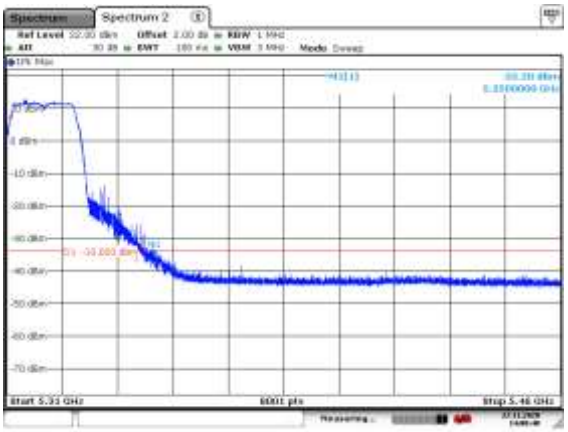
5320MHz with CDD	5320MHz with CDD
	

802.11ax(20MHz)

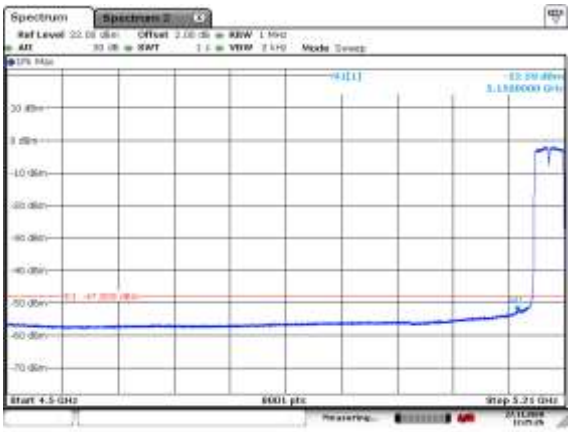
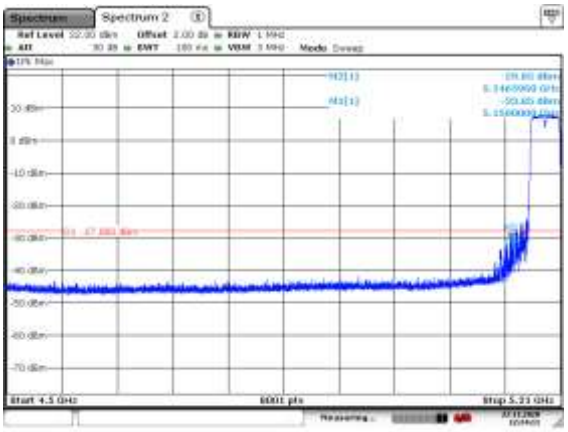
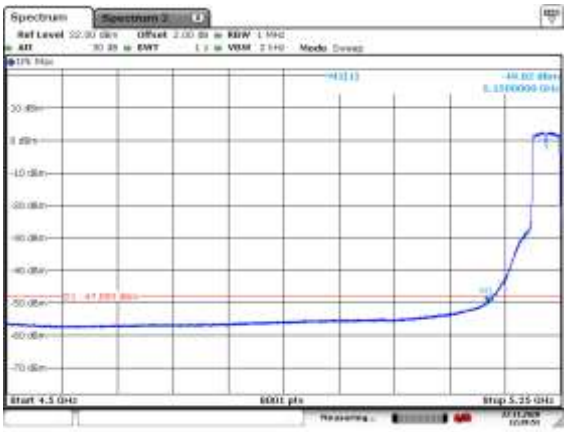
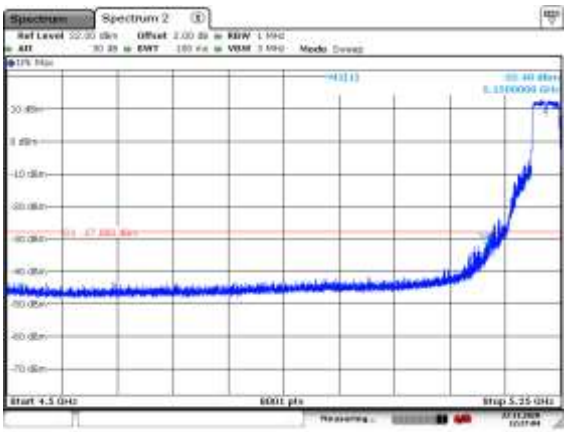
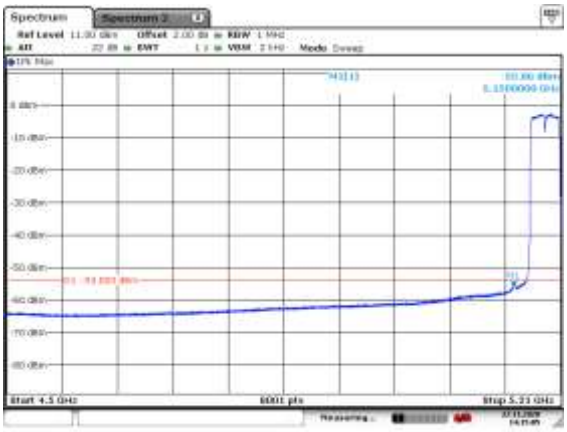
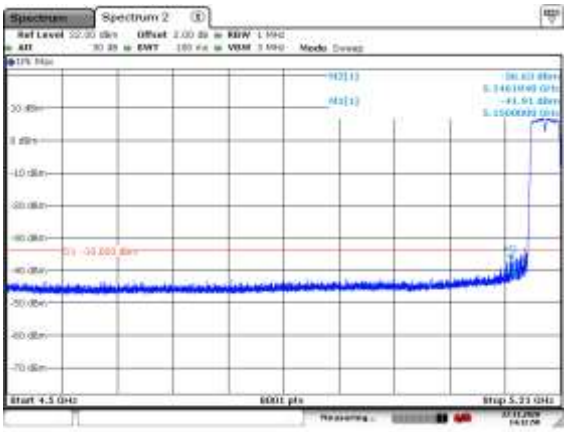
5180MHz with SISO	5180MHz with SISO
	
5200MHz with SISO	5200MHz with SISO
	
5180MHz with CDD	5180MHz with CDD
	

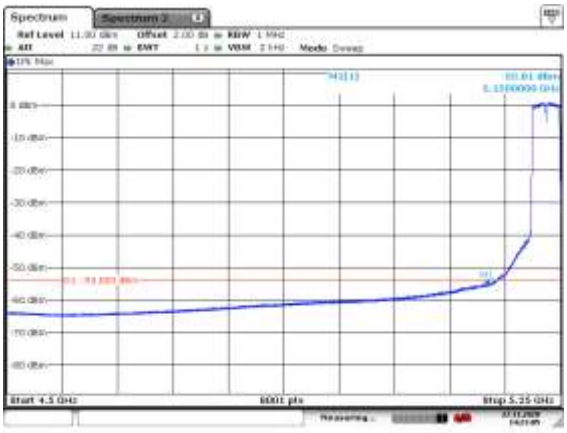
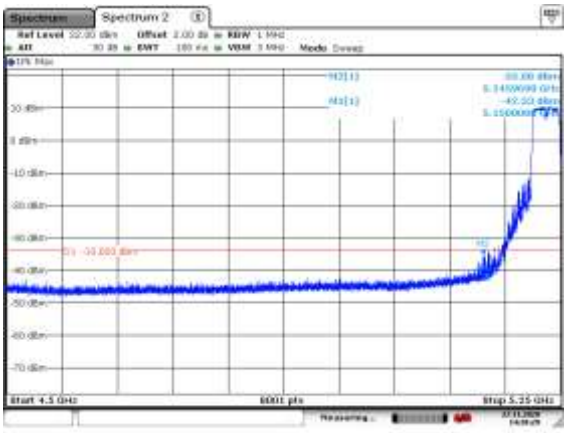
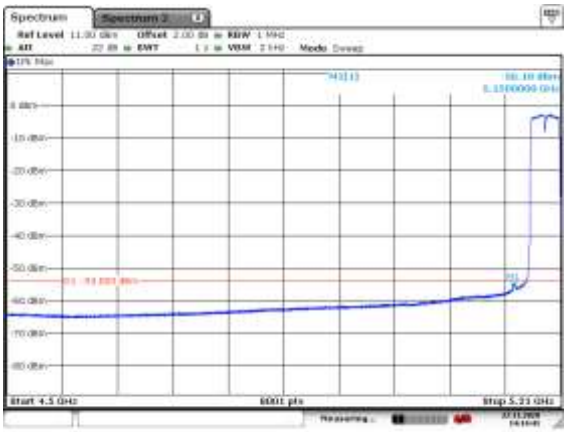
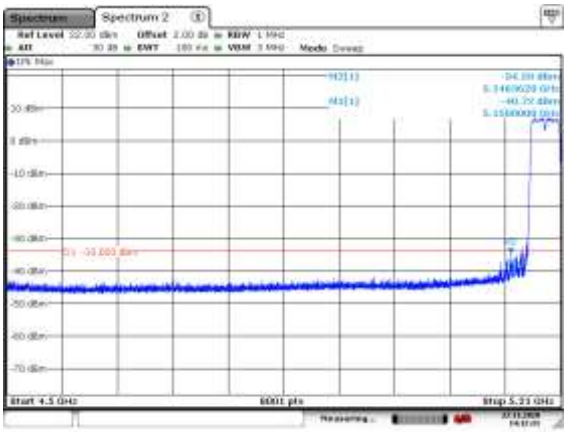
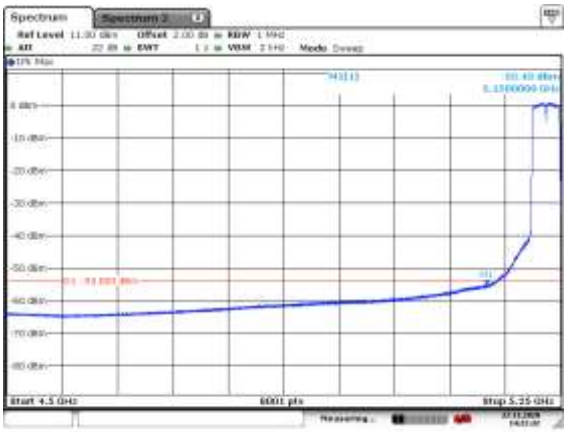
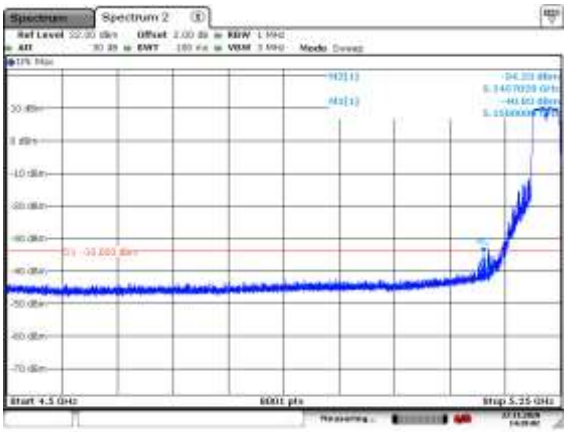
5200MHz with CDD	5200MHz with CDD
	
5180MHz with Beamforming	5180MHz with Beamforming
	
5200MHz with Beamforming	5200MHz with Beamforming
	

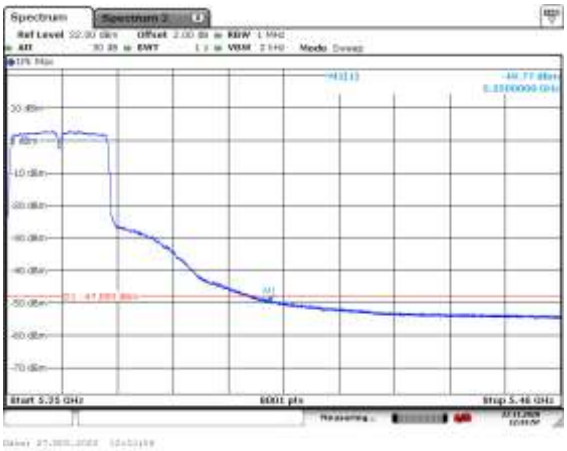
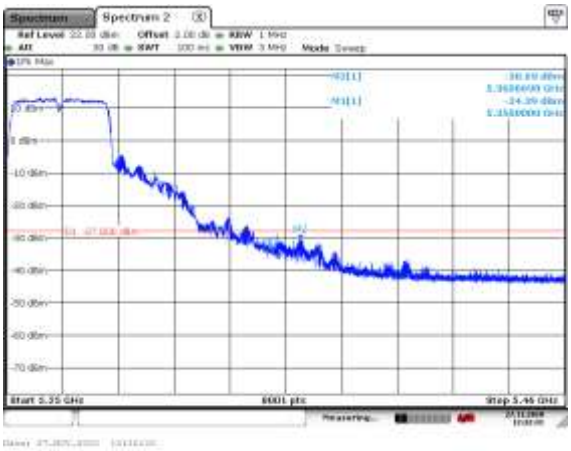
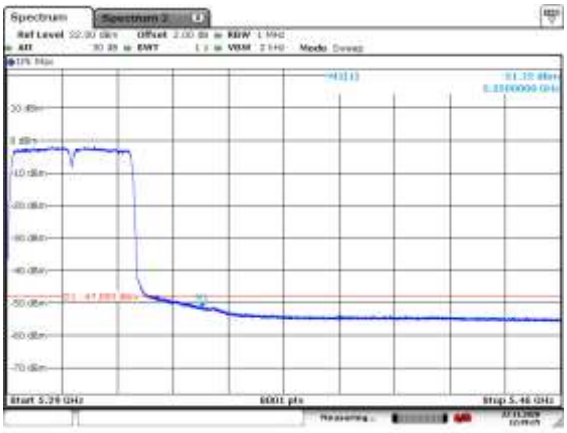
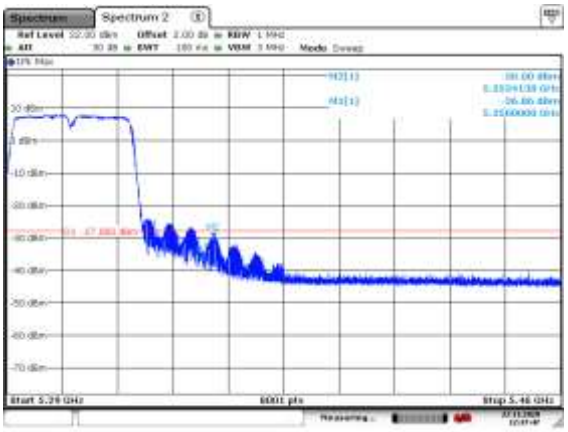
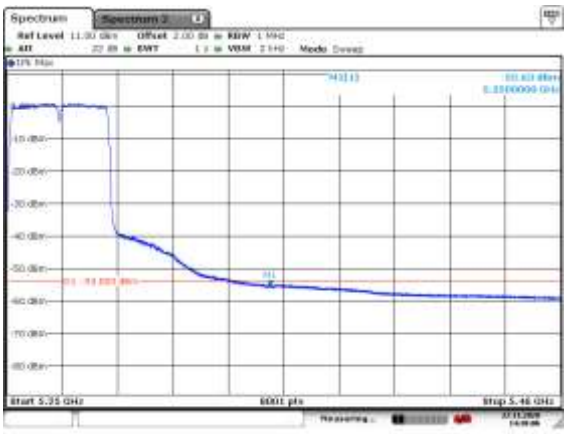
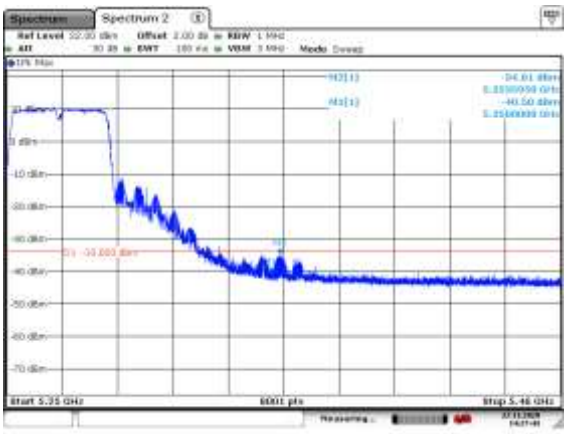
5300MHz with SISO	5300MHz with SISO
	
5320MHz with SISO	5320MHz with SISO
	
5300MHz with CDD	5300MHz with CDD
	

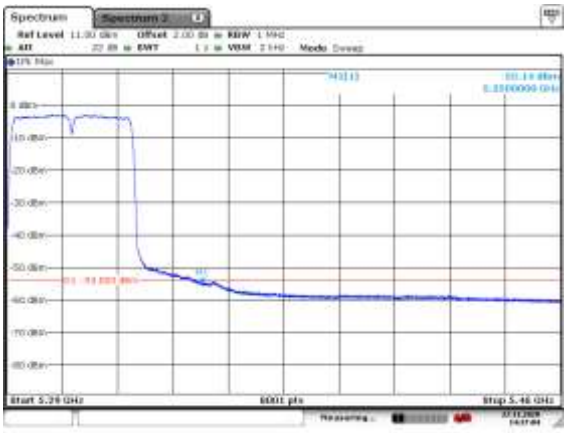
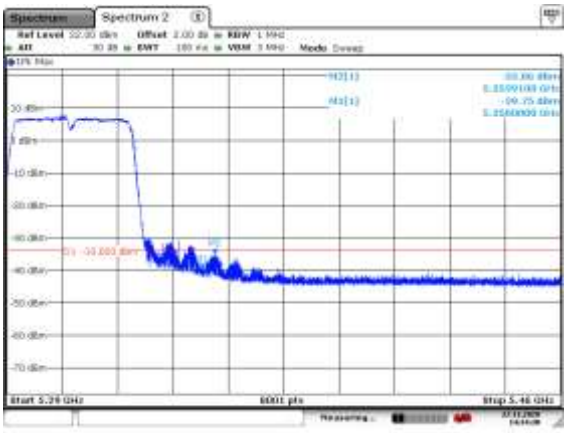
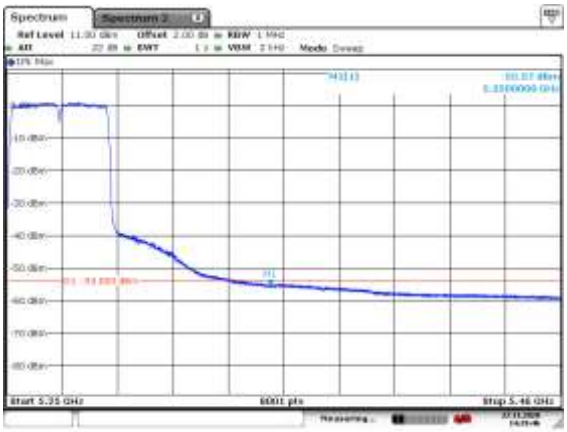
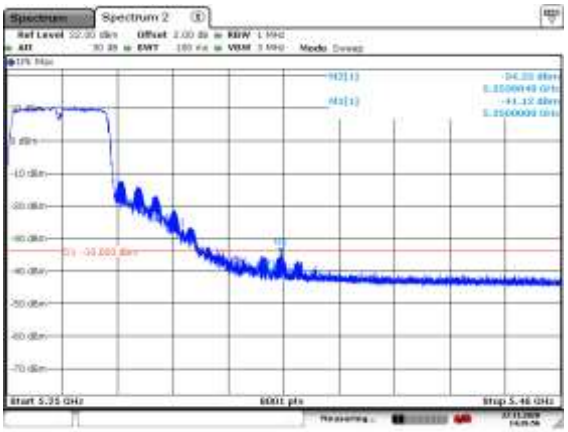
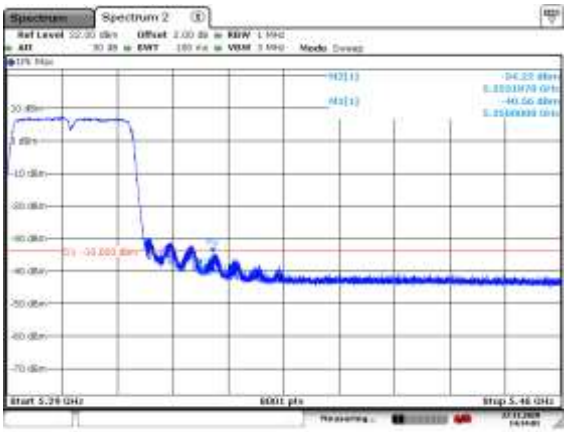
5320MHz with CDD	5320MHz with CDD
	
5300MHz with Beamforming	5300MHz with Beamforming
	
5320MHz with Beamforming	5320MHz with Beamforming
	

802.11ax(40MHz)

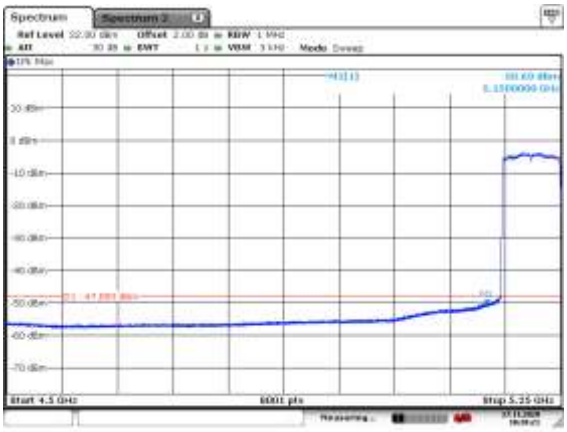
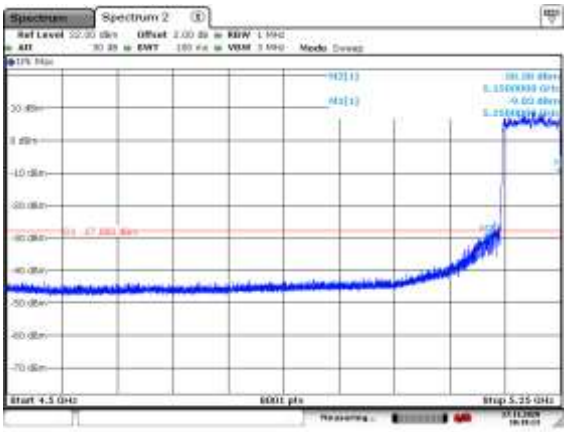
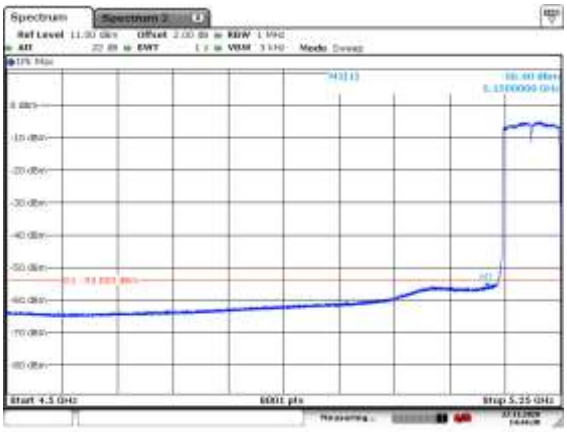
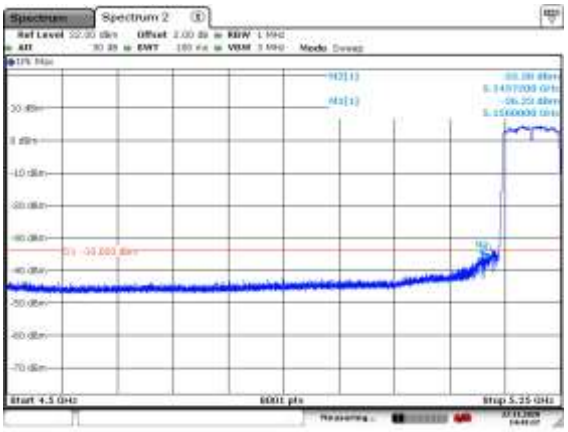
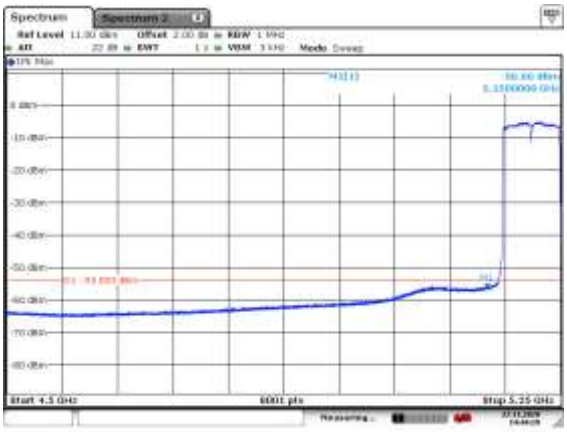
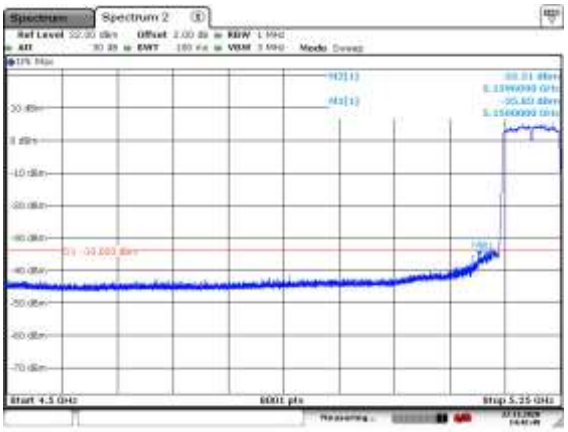
5190MHz with SISO	5190MHz with SISO
	
5230MHz with SISO	5230MHz with SISO
	
5190MHz with CDD	5190MHz with CDD
	

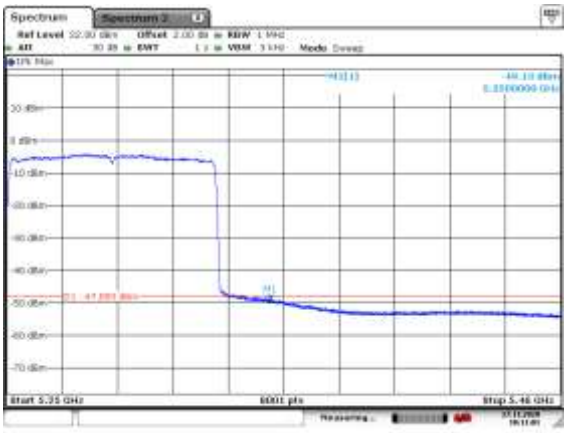
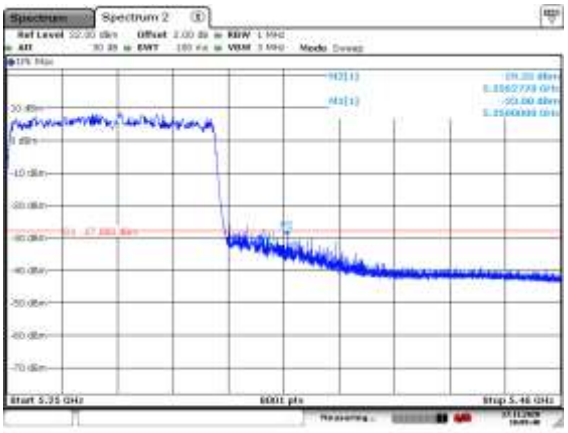
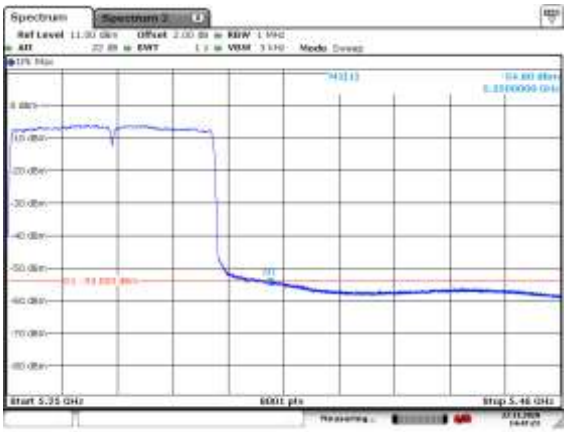
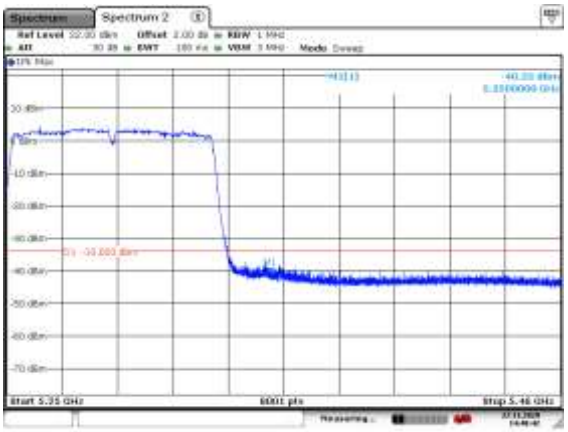
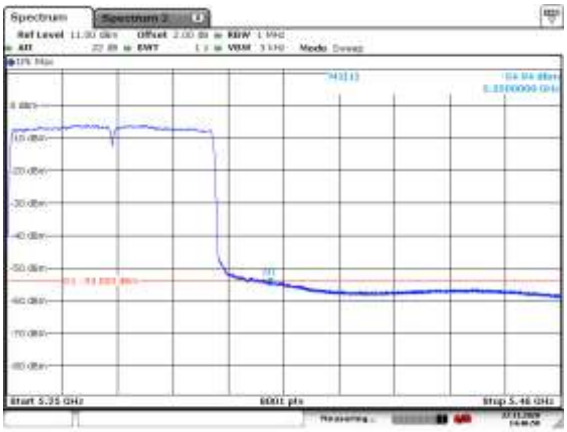
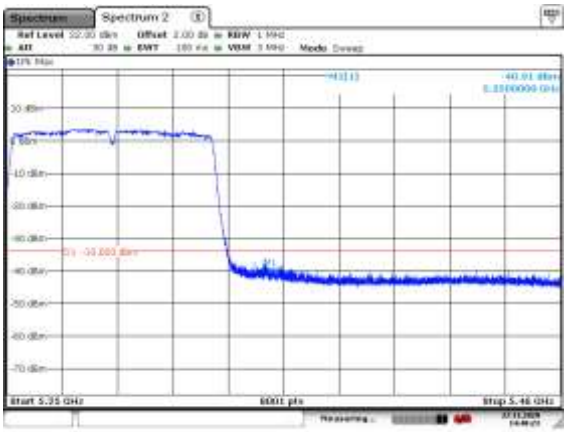
5230MHz with CDD	5230MHz with CDD
	
5190MHz with Beamforming	5190MHz with Beamforming
	
5230MHz with Beamforming	5230MHz with Beamforming
	

5270MHz with SISO	5270MHz with SISO
	
5310MHz with SISO	5310MHz with SISO
	
5270MHz with CDD	5270MHz with CDD
	

5310MHz with CDD	5310MHz with CDD
	
5270MHz with Beamforming	5270MHz with Beamforming
	
5310MHz with Beamforming	5310MHz with Beamforming
	

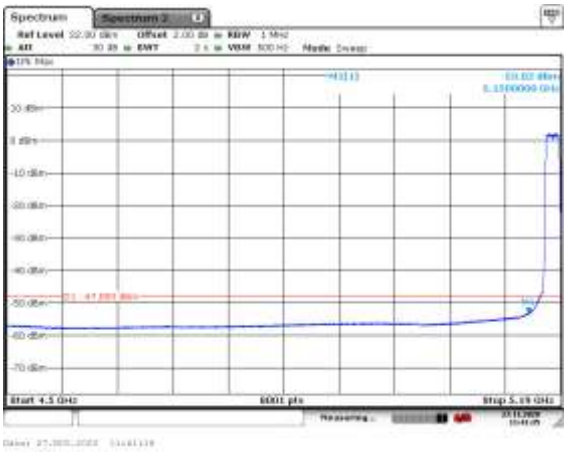
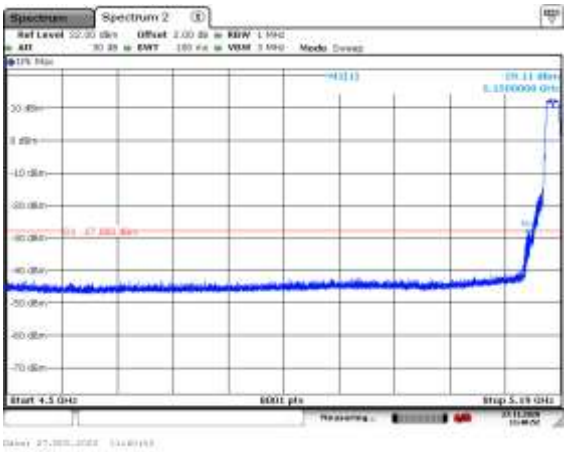
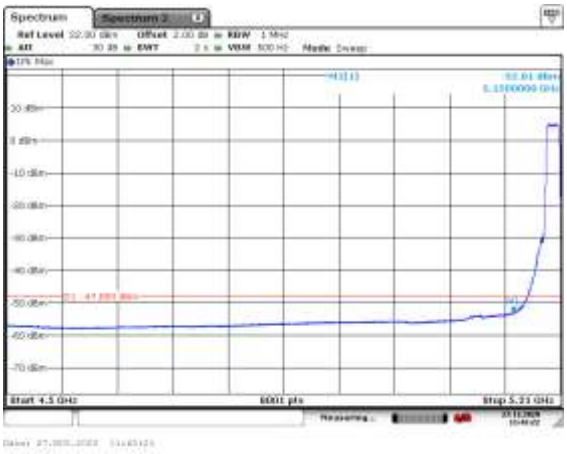
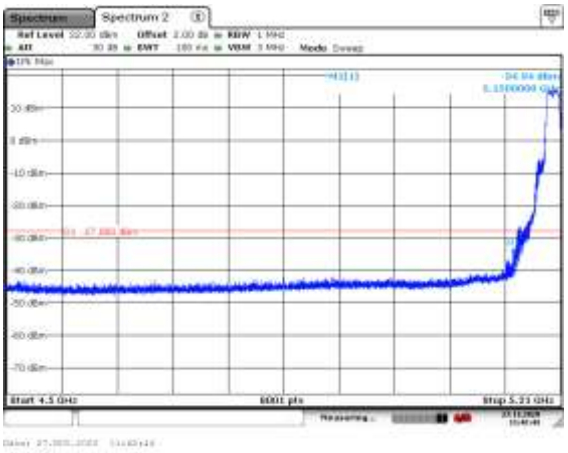
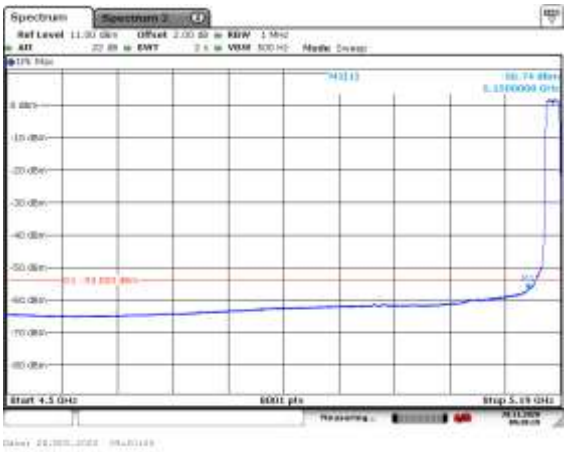
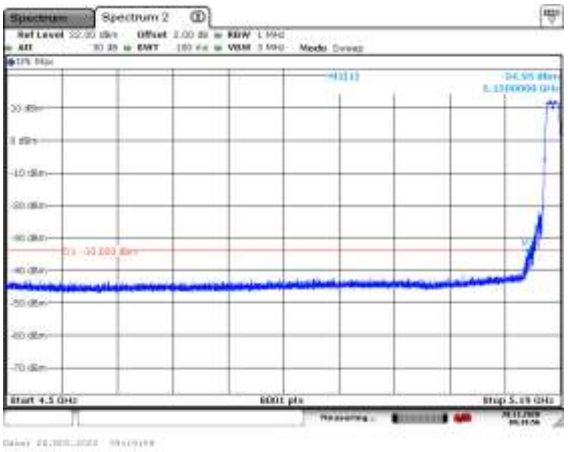
802.11ax(80MHz)

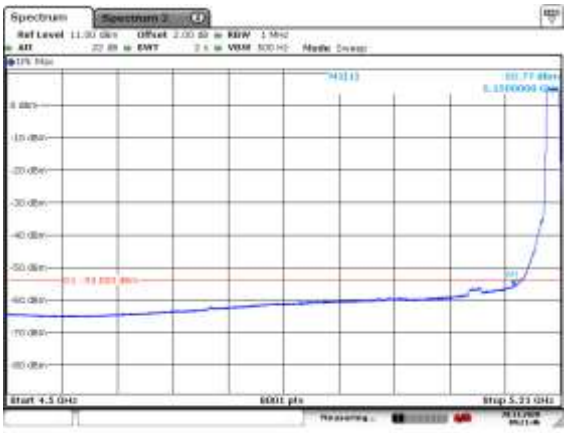
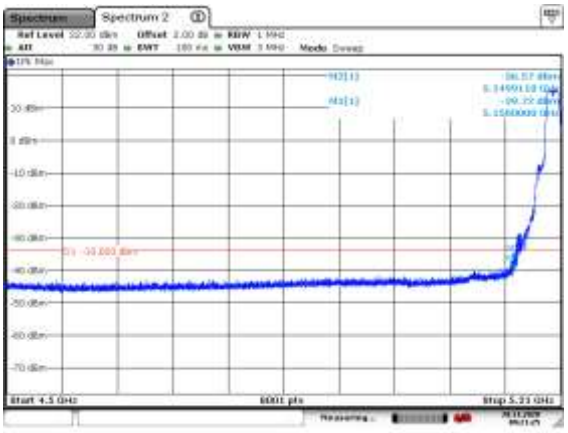
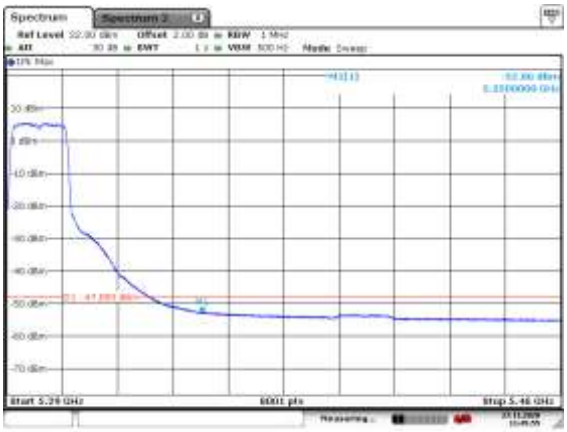
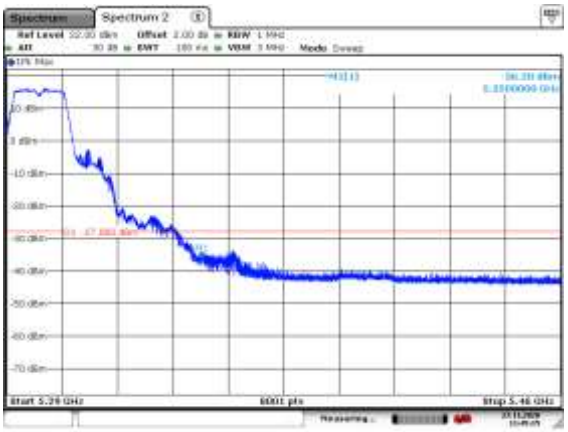
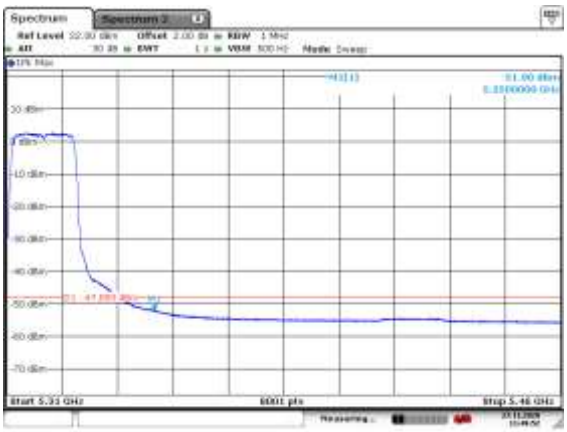
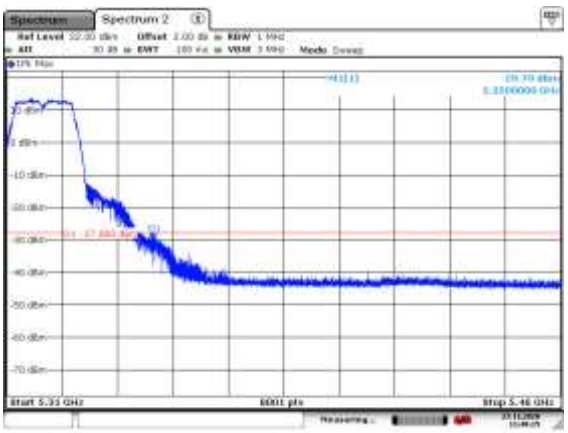
5210MHz with SISO	5210MHz with SISO
	
5210MHz with CDD	5210MHz with CDD
	
5210MHz with Beamforming	5210MHz with Beamforming
	

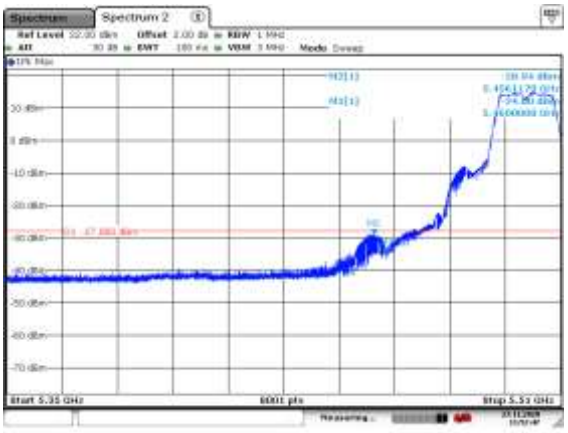
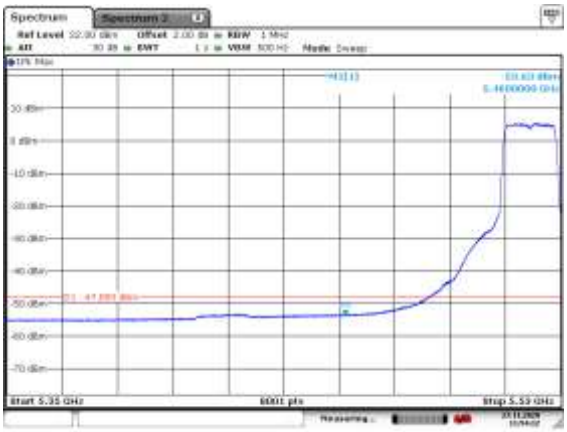
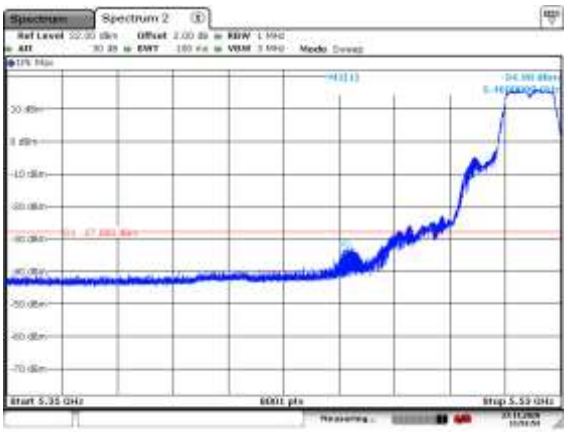
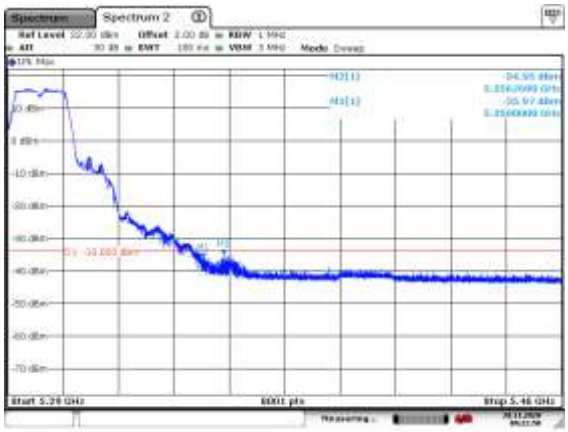
5290MHz with SISO	5290MHz with SISO
	
5290MHz with CDD	5290MHz with CDD
	
5290MHz with Beamforming	5290MHz with Beamforming
	

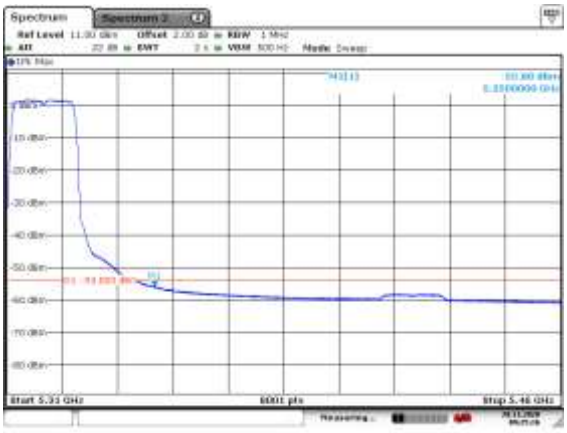
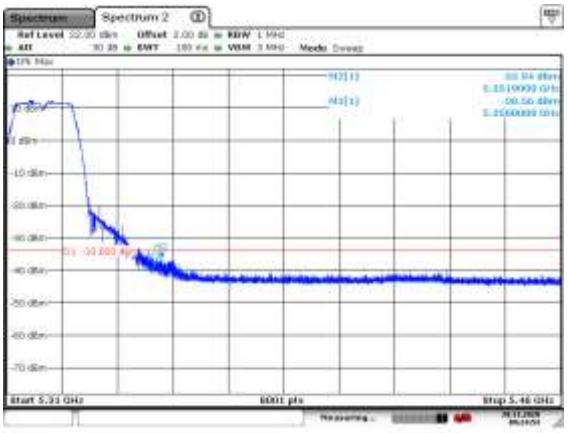
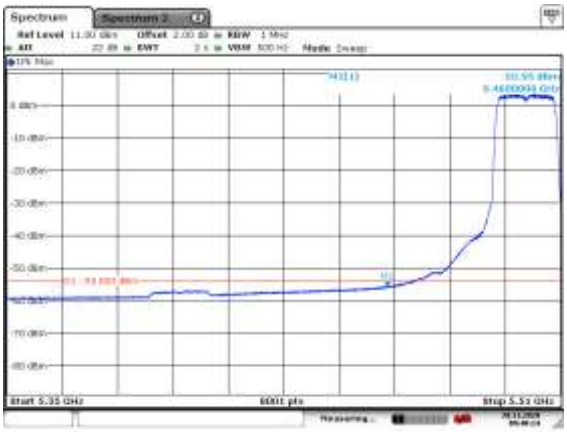
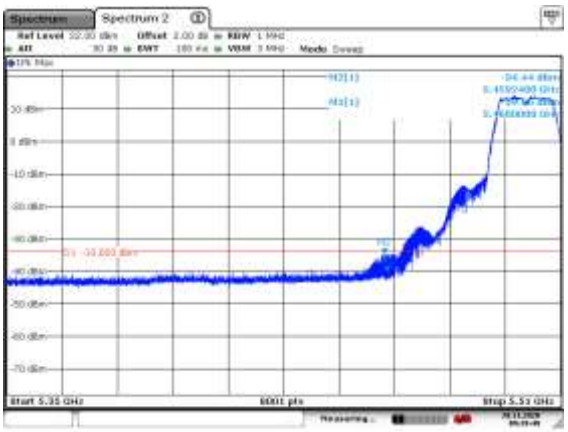
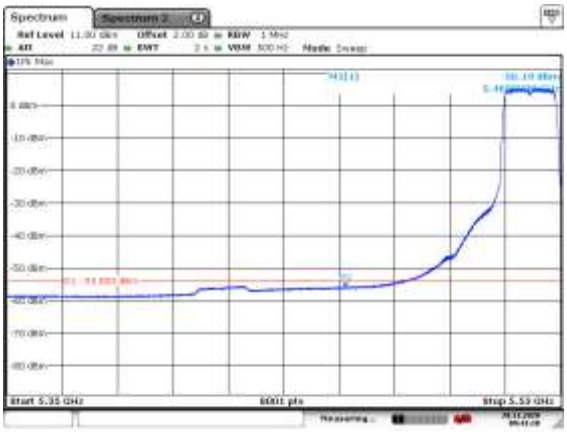
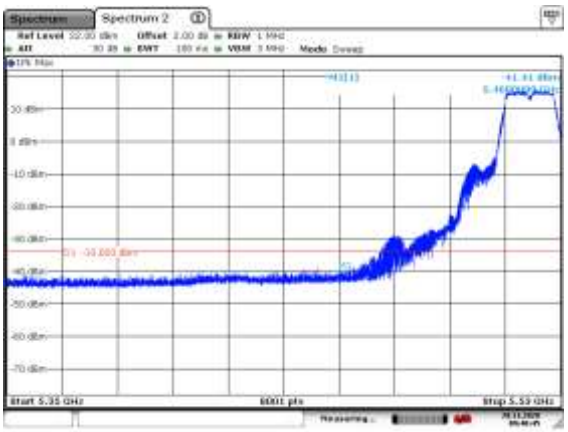
Eth2:

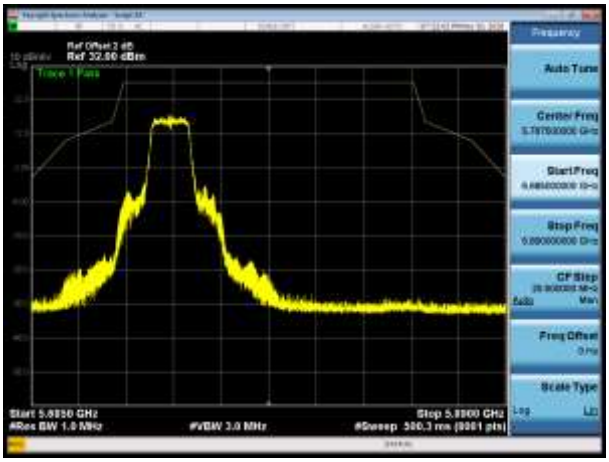
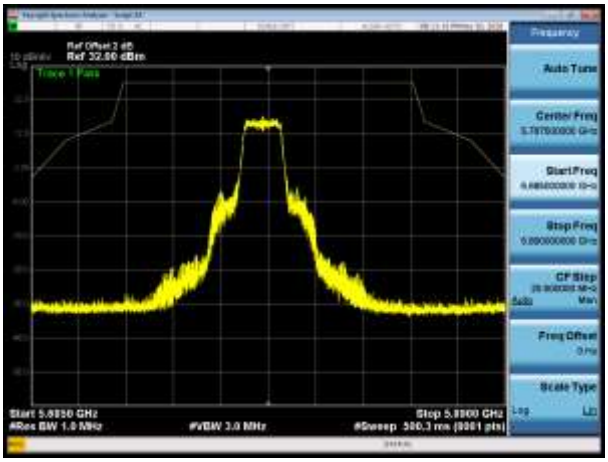
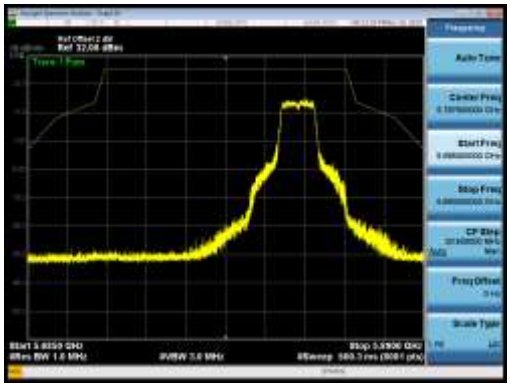
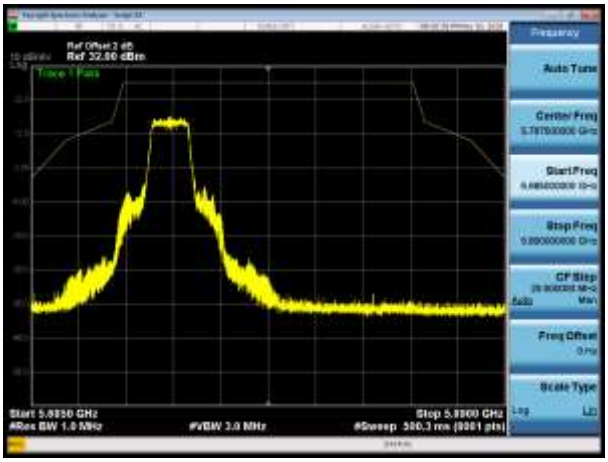
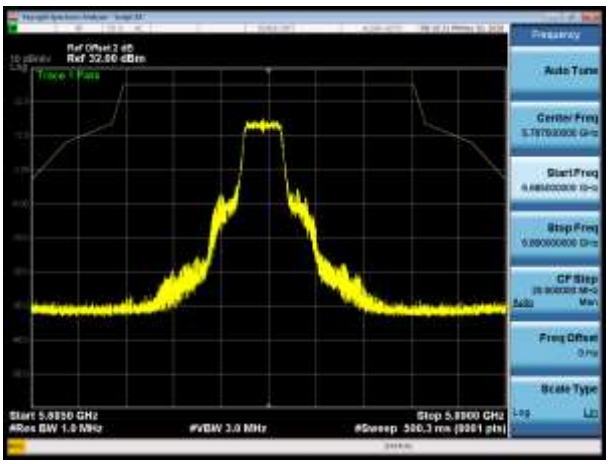
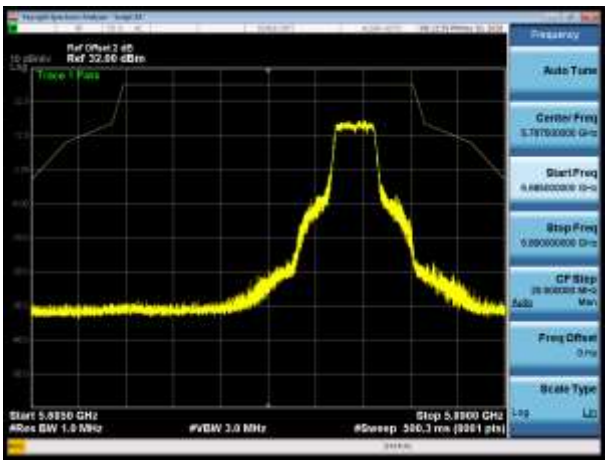
802.11a

5180MHz with SISO	5180MHz with SISO
	
5200MHz with SISO	5200MHz with SISO
	
5180MHz with CDD	5180MHz with CDD
	

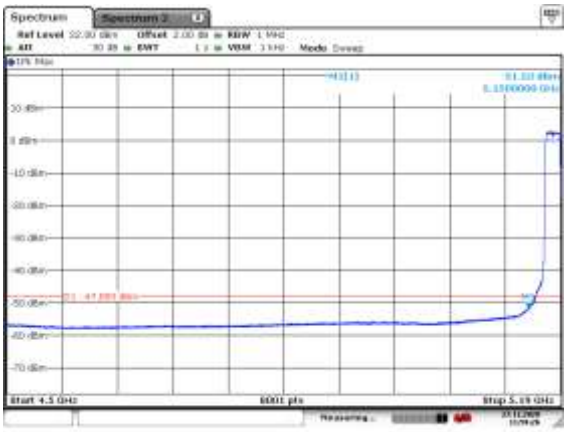
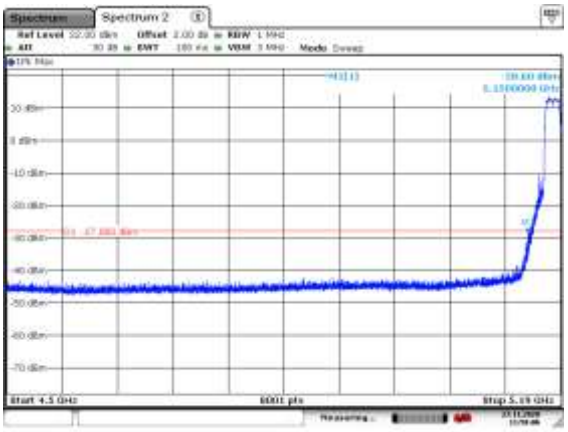
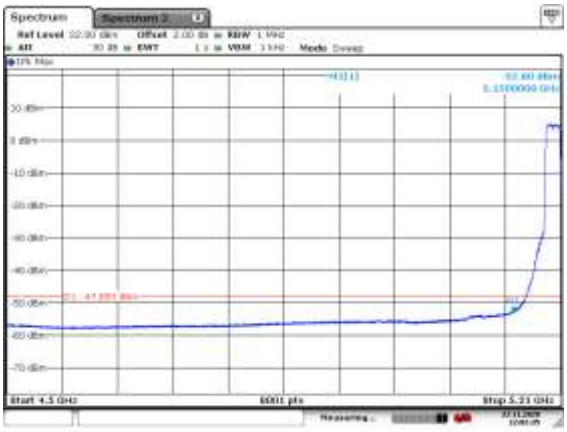
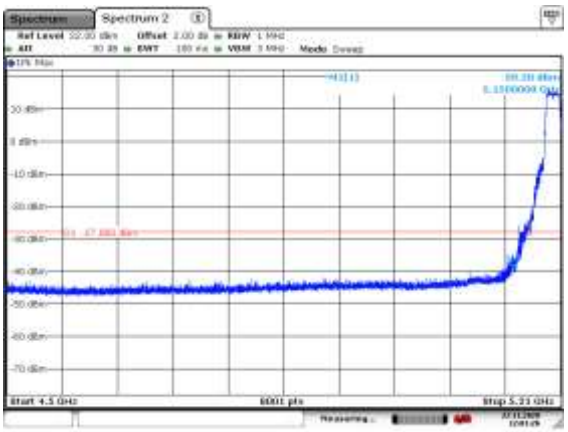
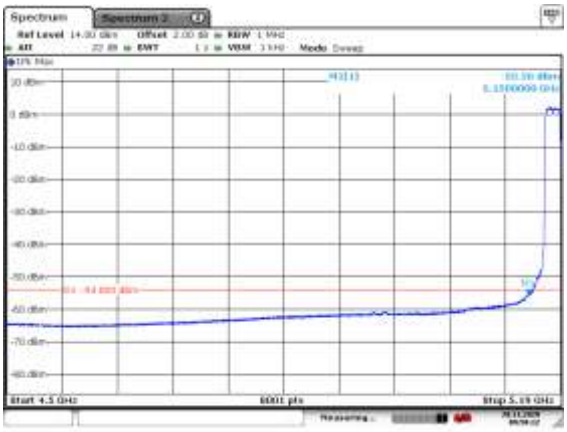
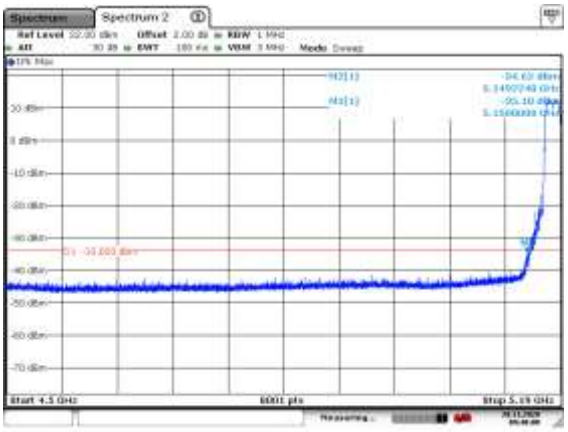
5200MHz with CDD 	5200MHz with CDD 
5300MHz with SISO 	5300MHz with SISO 
5320MHz with SISO 	5320MHz with SISO 

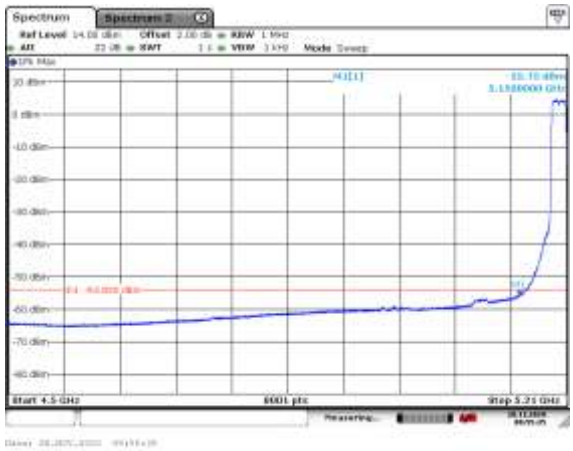
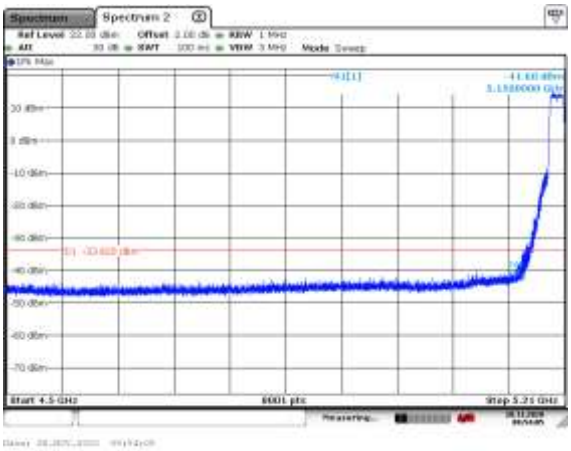
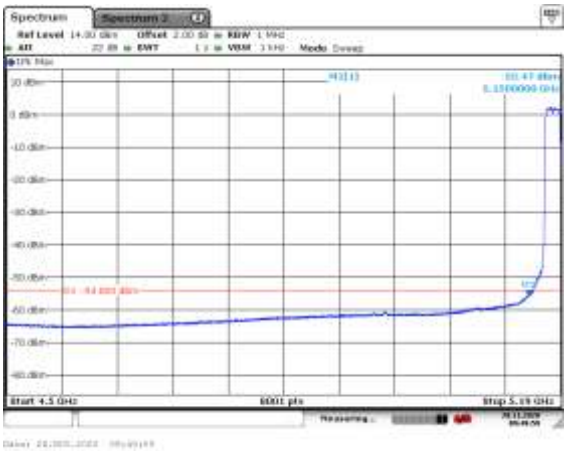
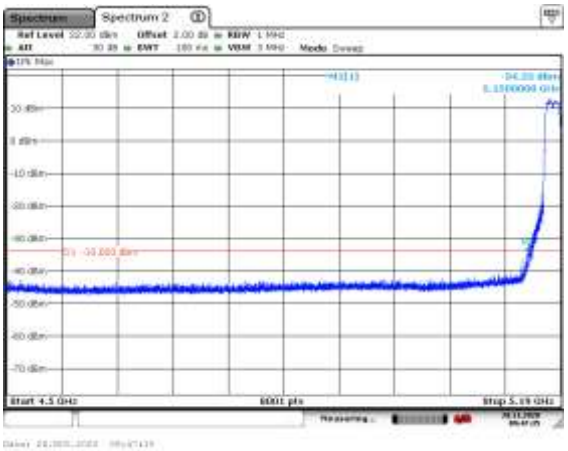
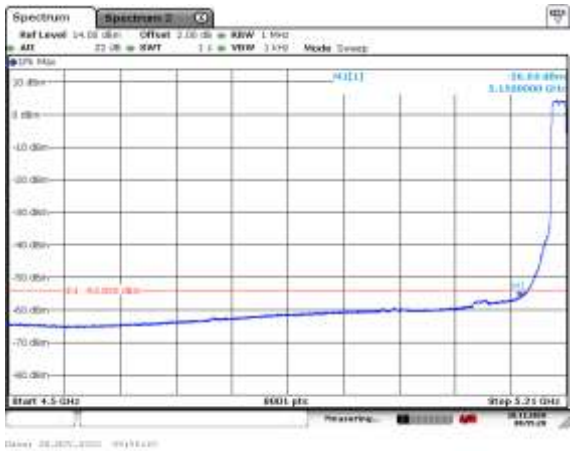
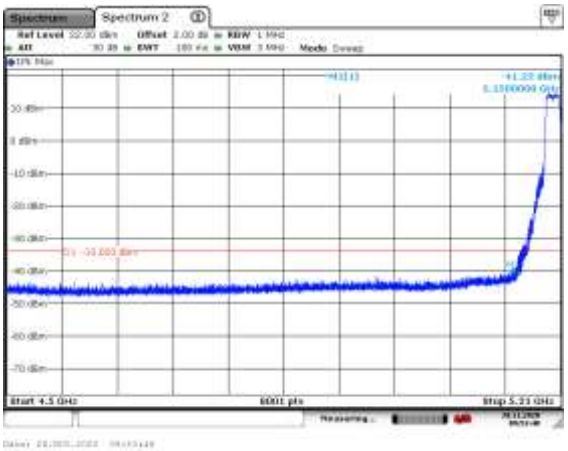
5500MHz with SISO	5500MHz with SISO
	
5520MHz with SISO	5520MHz with SISO
	
5300MHz with CDD	5300MHz with CDD
	

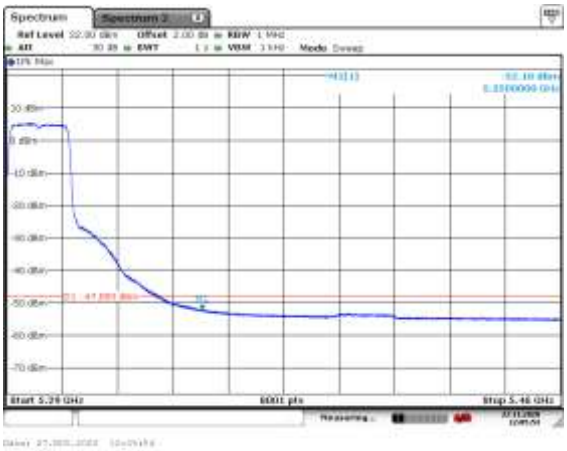
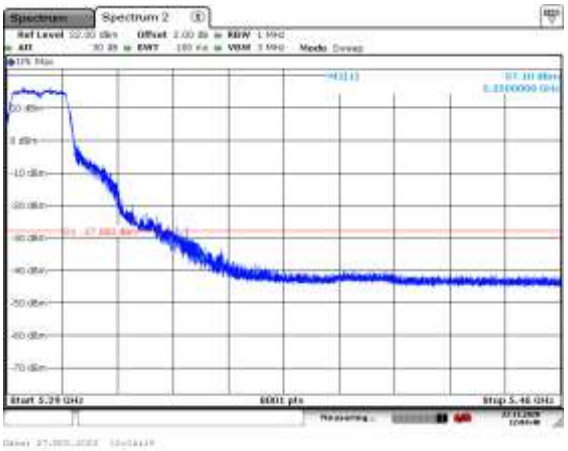
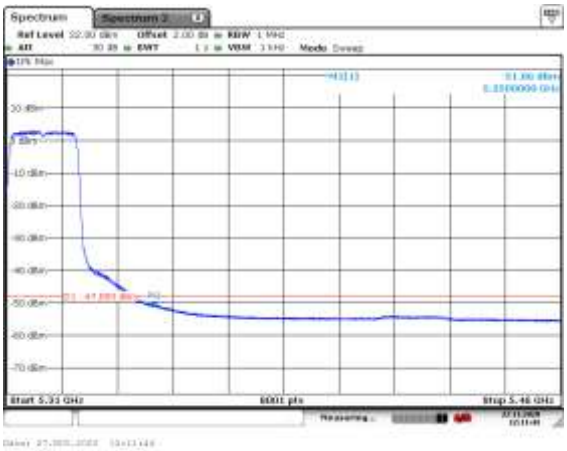
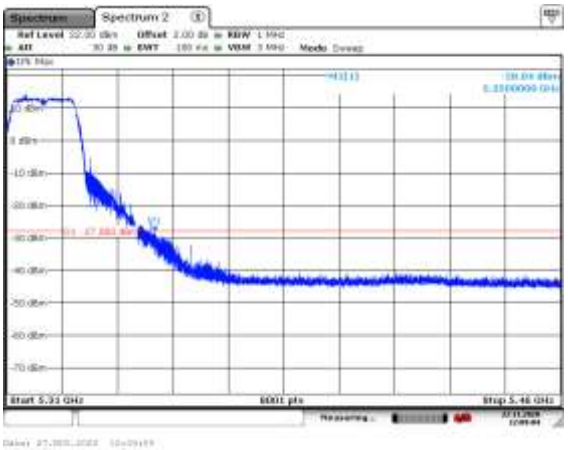
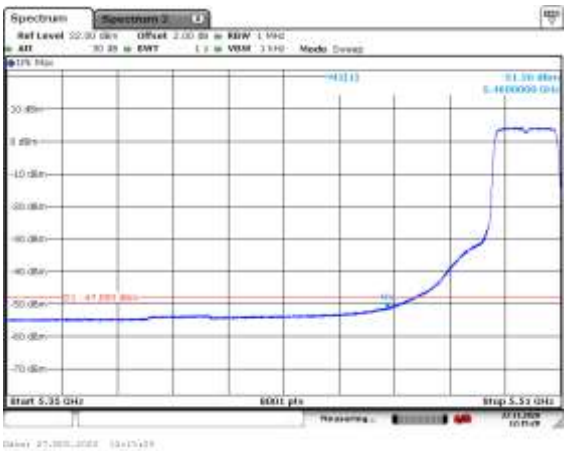
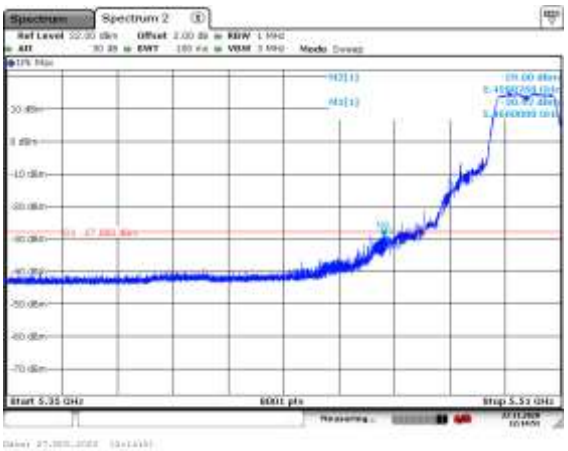
5320MHz with CDD	5320MHz with CDD
	
5500MHz with CDD	5500MHz with CDD
	
5520MHz with CDD	5520MHz with CDD
	

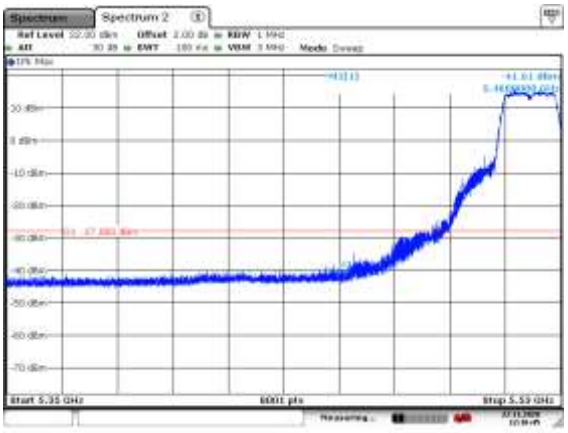
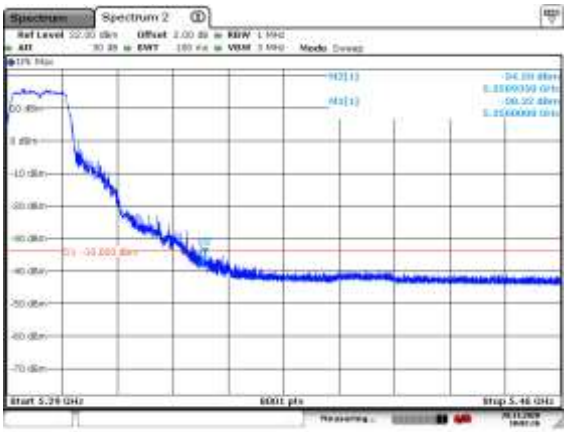
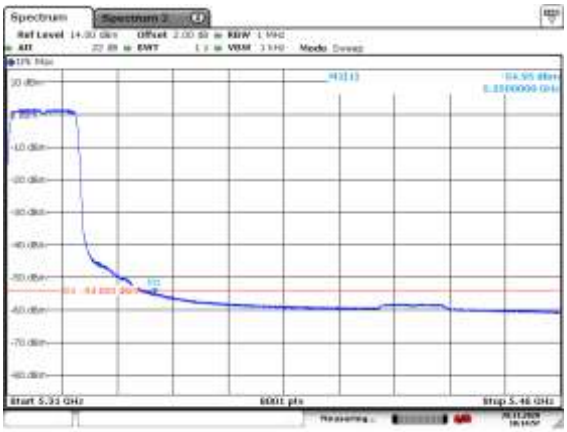
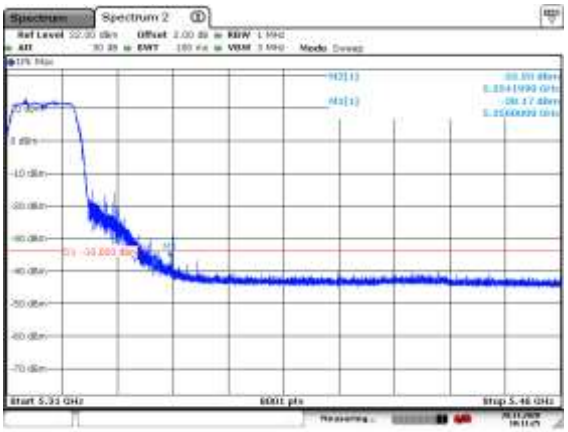
5745MHz with SISO	5785MHz with SISO
	
5825MHz with SISO	5745MHz with CDD
	
5785MHz with CDD	5825MHz with CDD
	

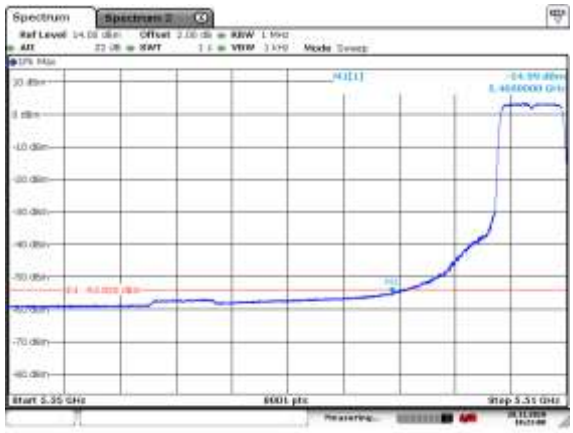
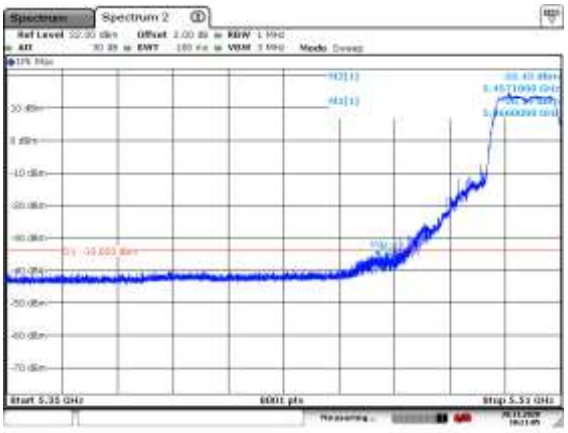
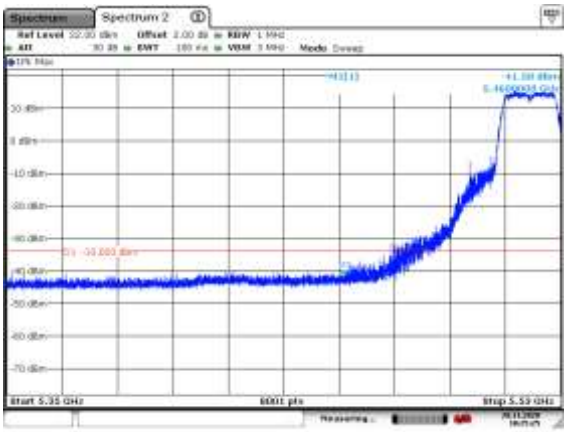
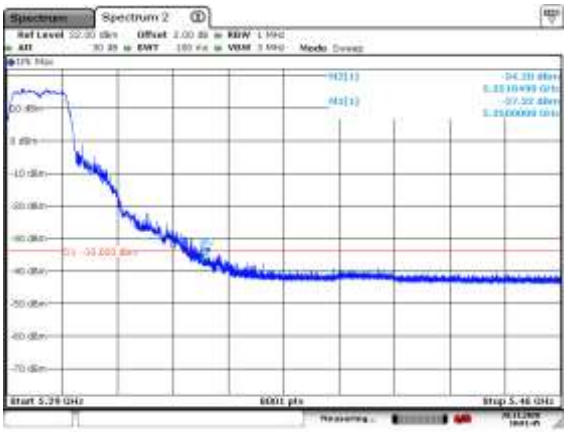
802.11ax(20MHz)

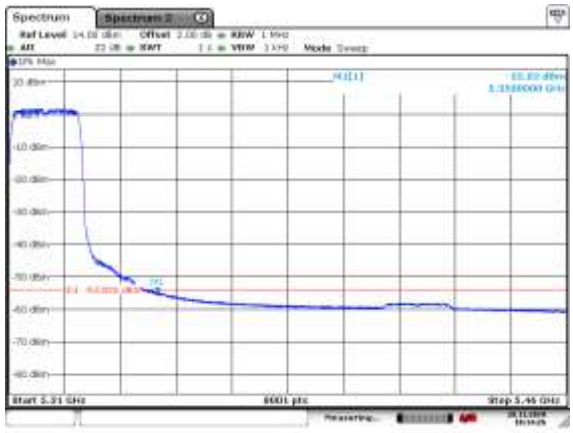
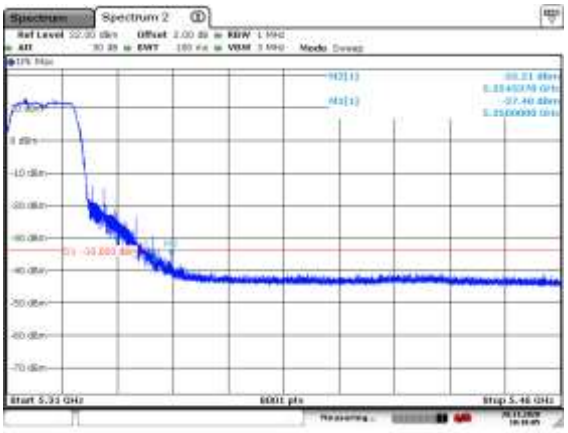
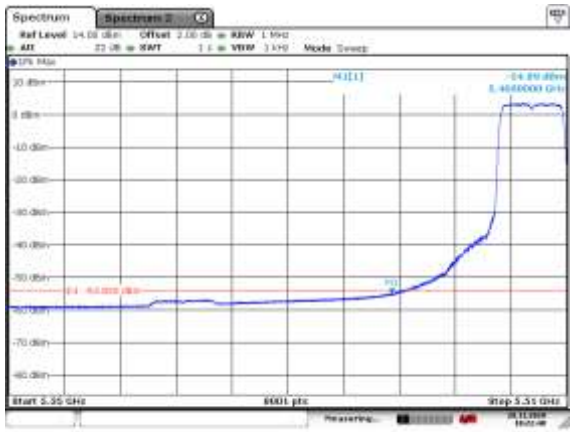
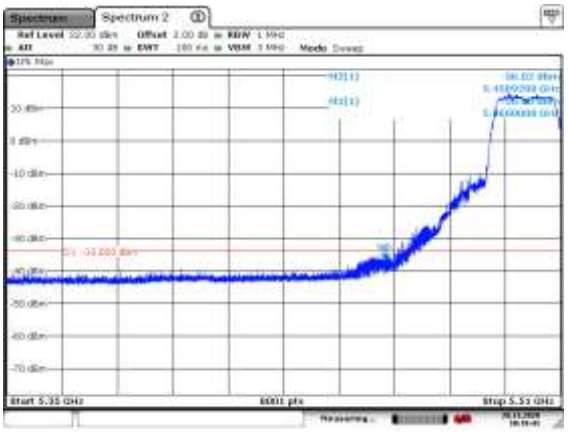
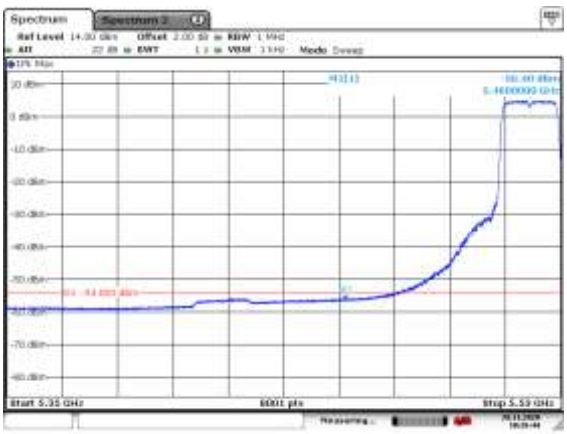
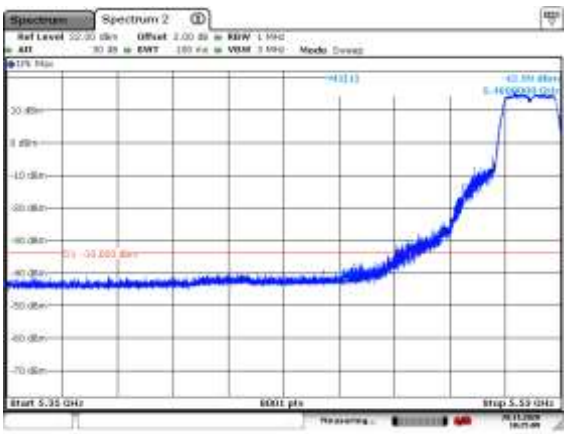
5180MHz with SISO	5180MHz with SISO
	
5200MHz with SISO	5200MHz with SISO
	
5180MHz with CDD	5180MHz with CDD
	

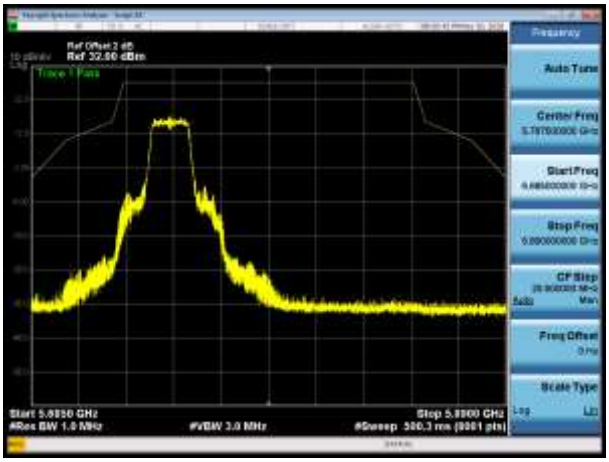
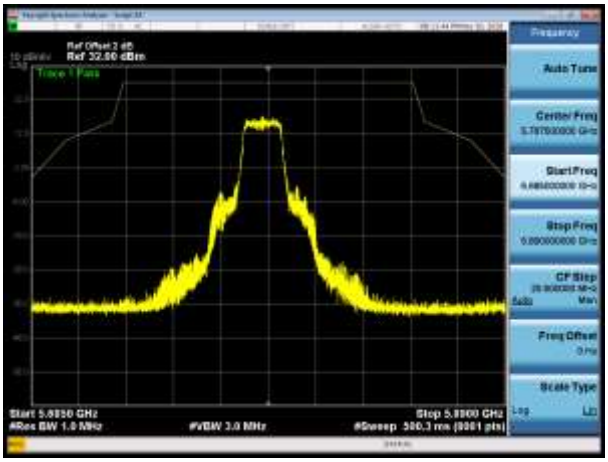
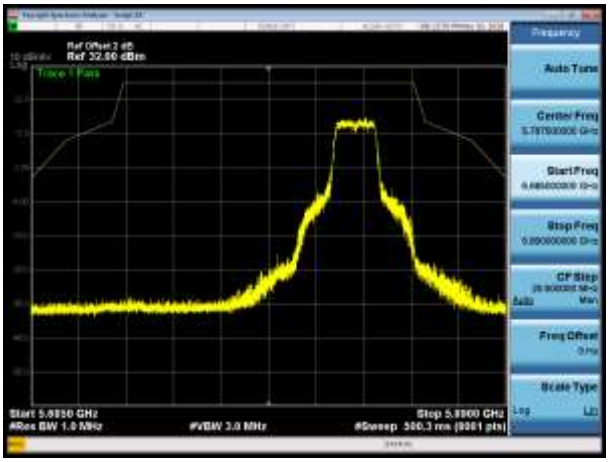
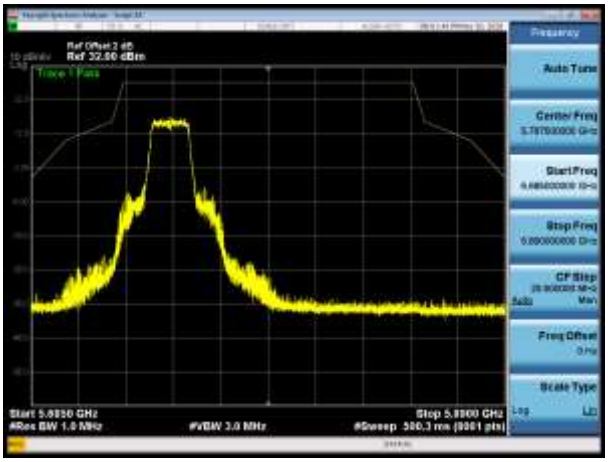
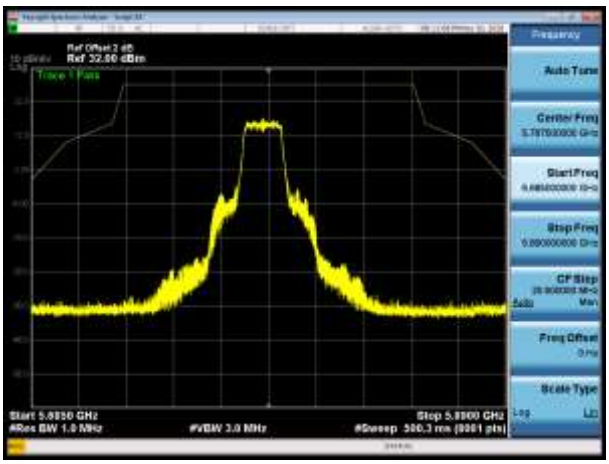
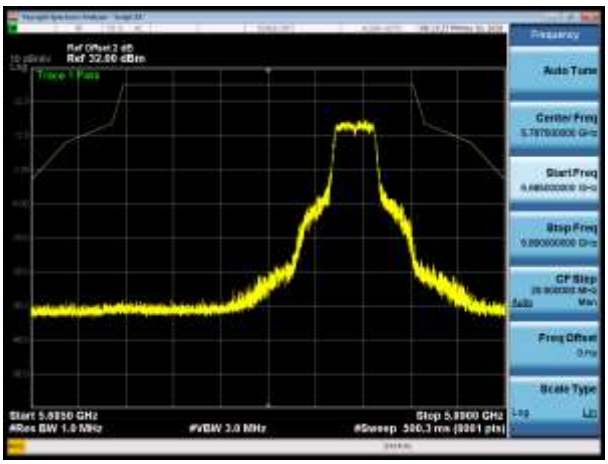
5200MHz with CDD	5200MHz with CDD
	
5180MHz with Beamforming	5180MHz with Beamforming
	
5200MHz with Beamforming	5200MHz with Beamforming
	

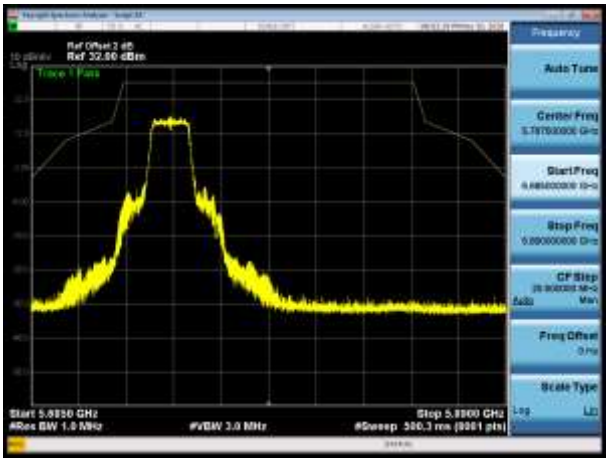
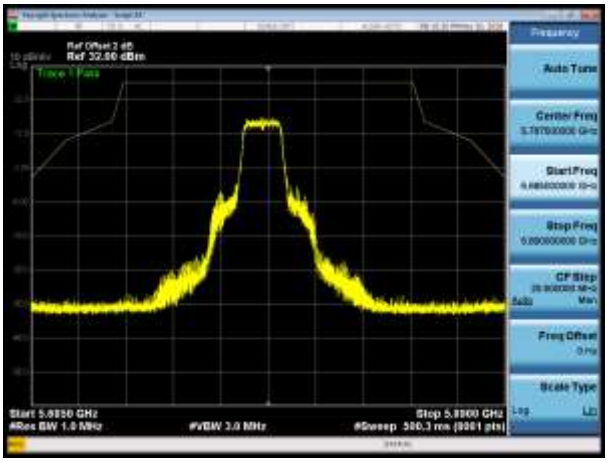
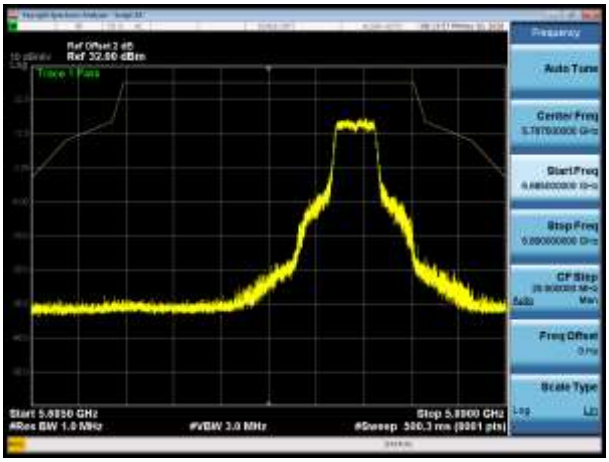
5300MHz with SISO 	5300MHz with SISO 
5320MHz with SISO 	5320MHz with SISO 
5500MHz with SISO 	5500MHz with SISO 

5520MHz with SISO	5520MHz with SISO
	
5300MHz with CDD	5300MHz with CDD
	
5320MHz with CDD	5320MHz with CDD
	

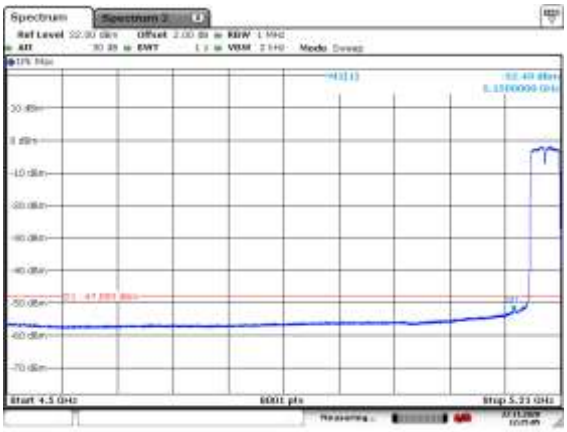
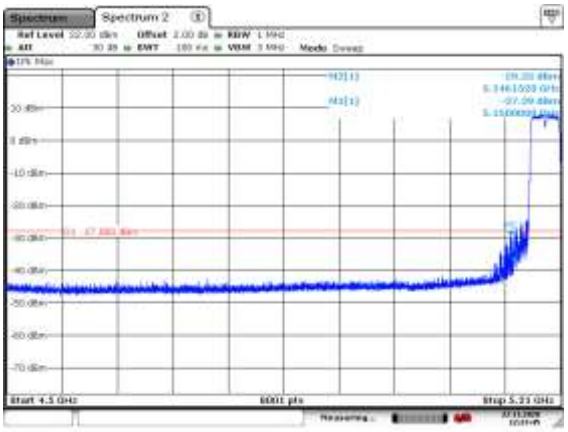
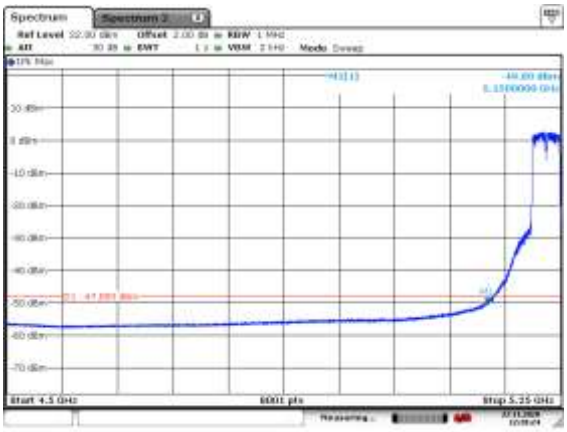
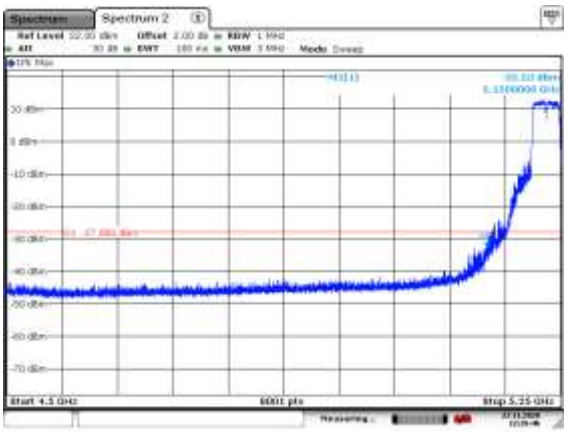
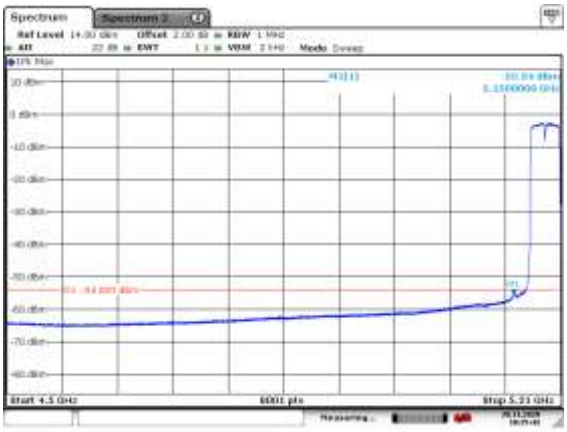
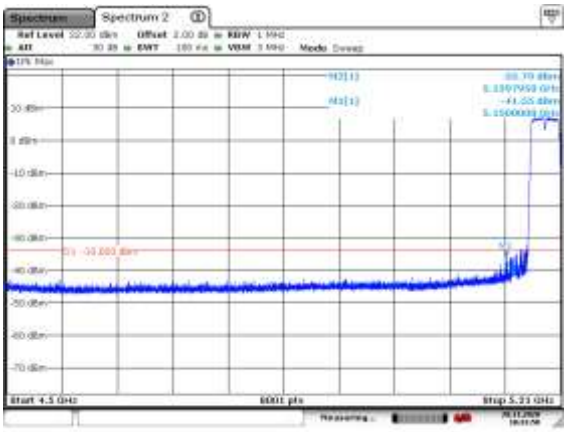
5500MHz with CDD	5500MHz with CDD
	
5520MHz with CDD	5520MHz with CDD
	
5300MHz with Beamforming	5300MHz with Beamforming
	

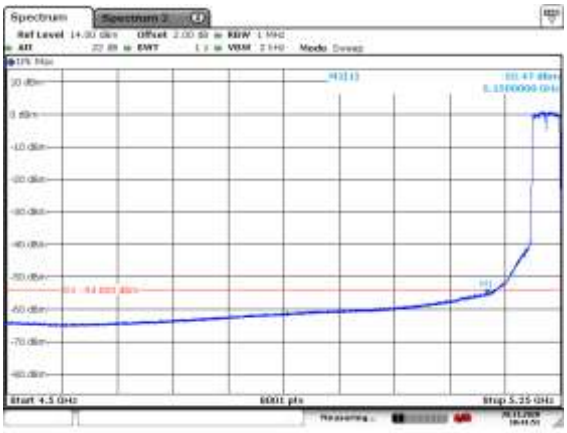
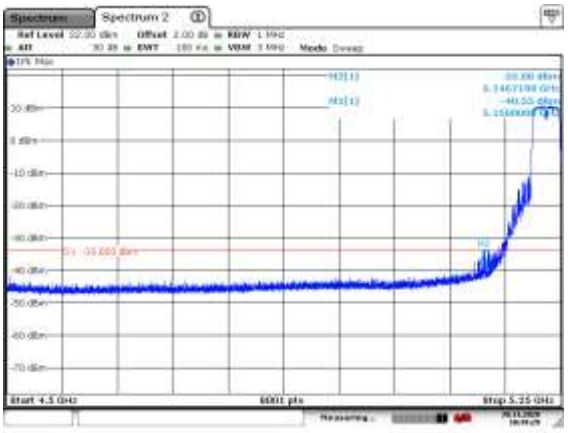
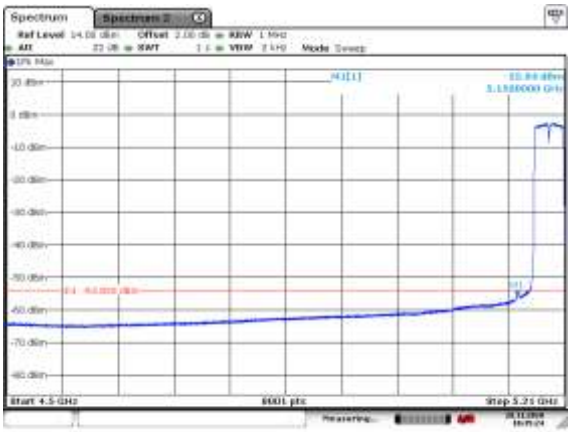
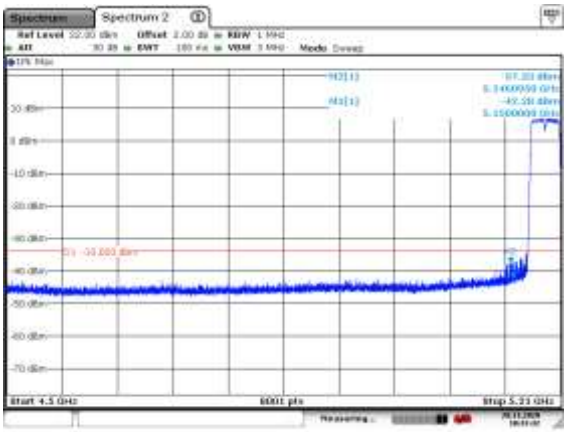
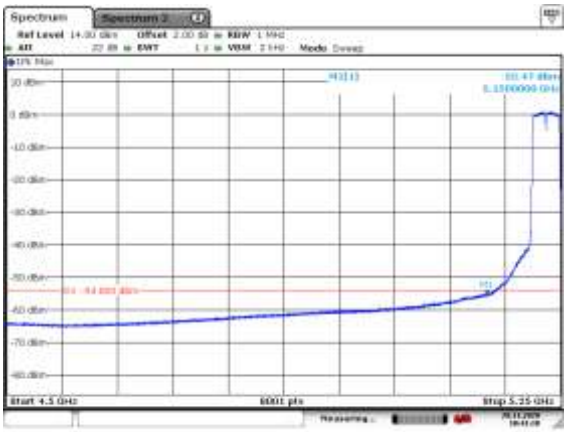
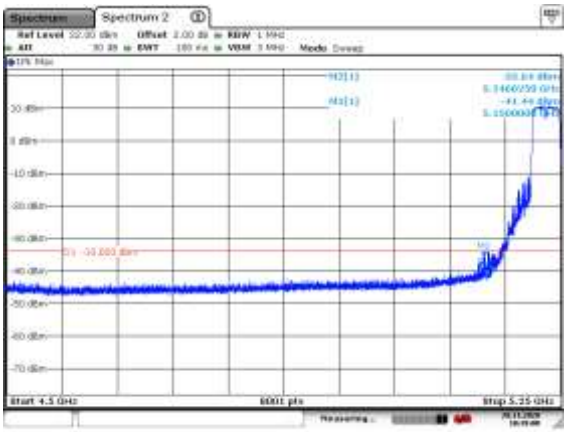
5320MHz with Beamforming	5320MHz with Beamforming
	
5500MHz with Beamforming	5500MHz with Beamforming
	
5520MHz with Beamforming	5520MHz with Beamforming
	

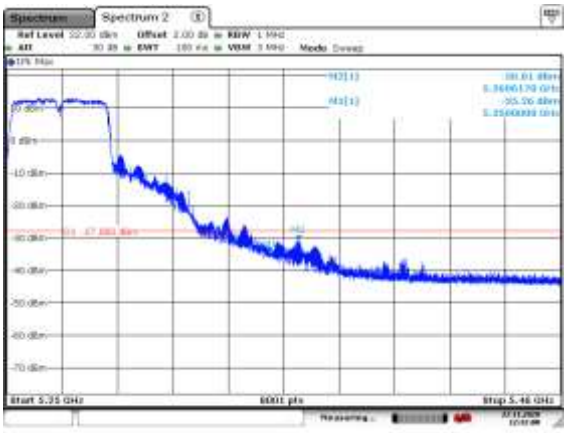
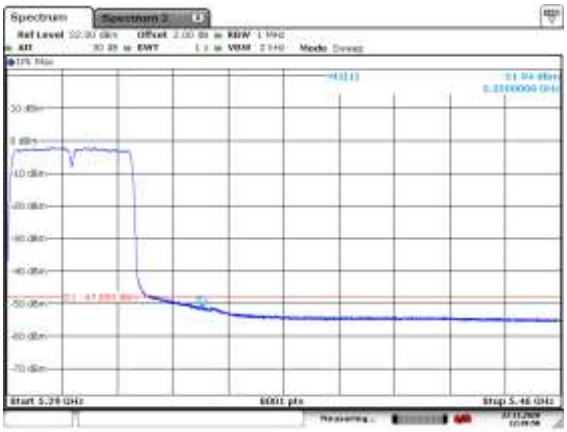
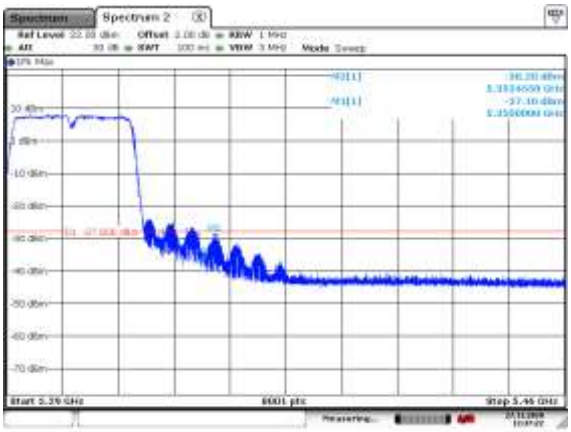
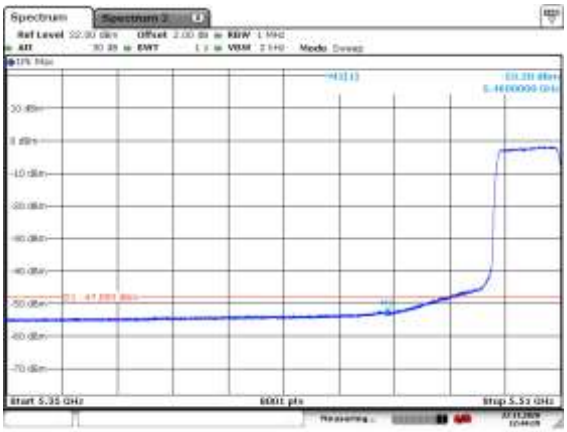
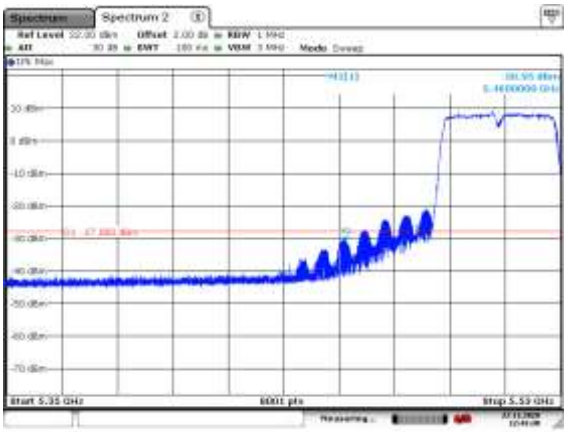
5745MHz with SISO	5785MHz with SISO
	
5825MHz with SISO	5745MHz with CDD
	
5785MHz with CDD	5825MHz with CDD
	

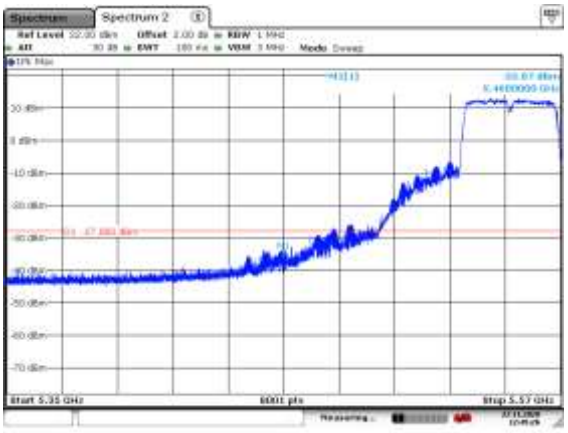
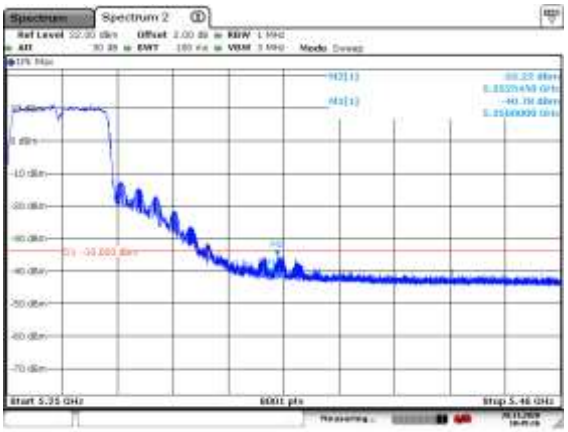
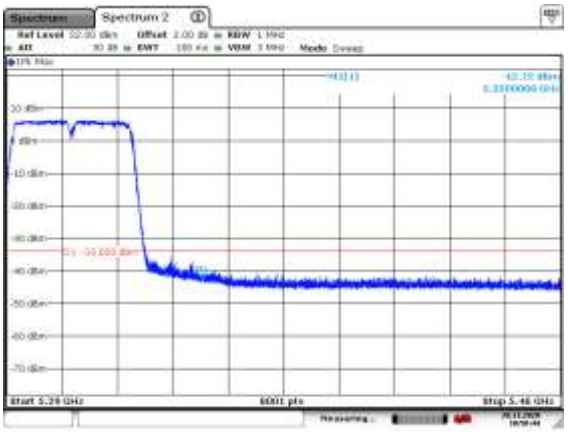
5745MHz with Beamforming	5785MHz with Beamforming
	
5825MHz with Beamforming	
	

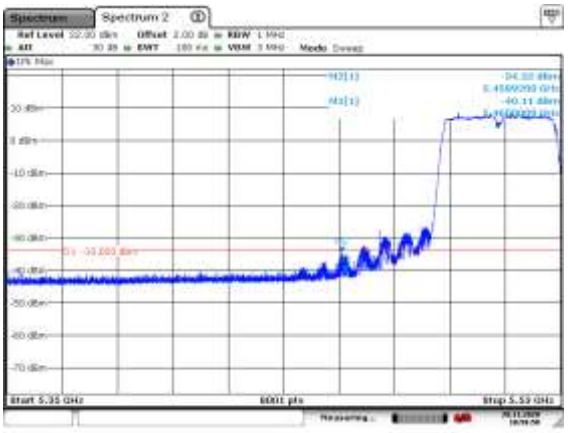
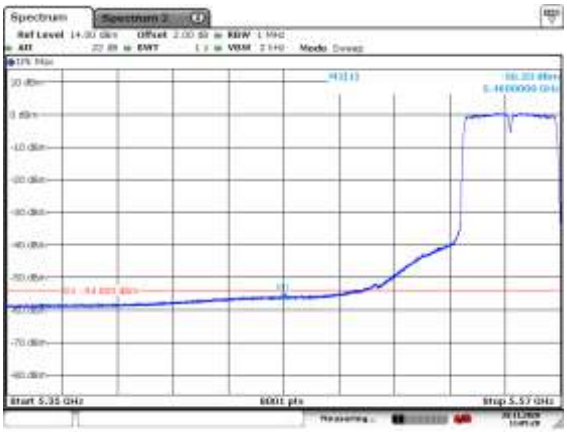
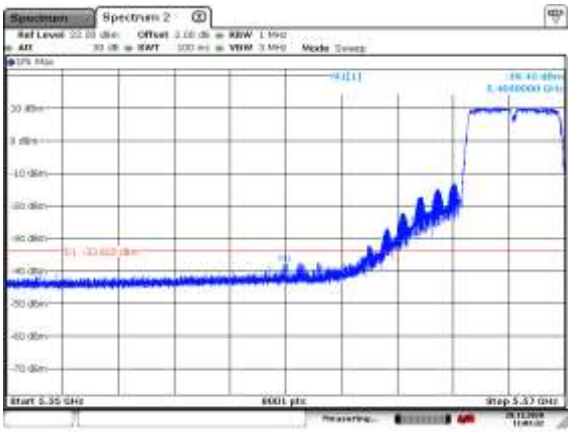
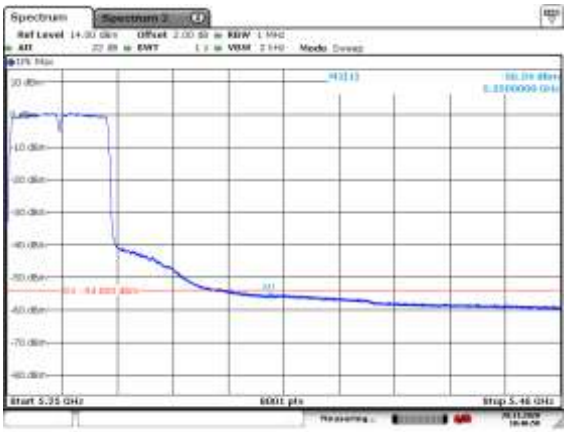
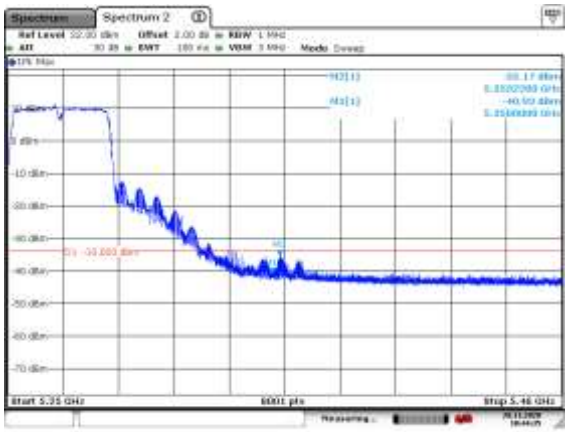
802.11ax(40MHz)

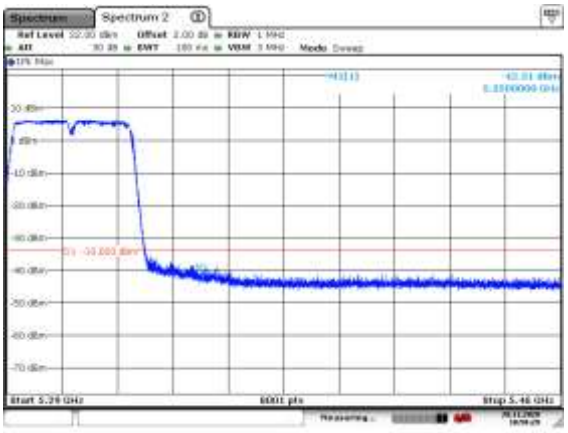
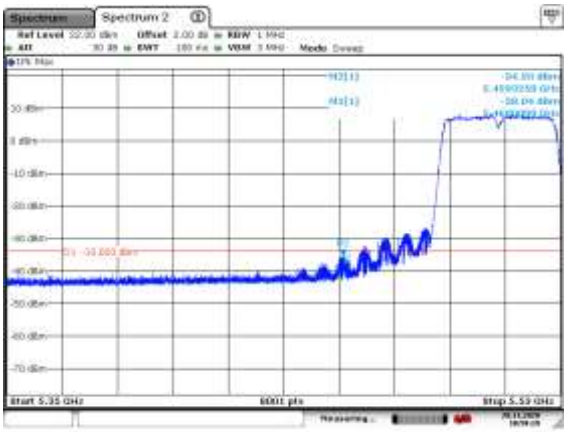
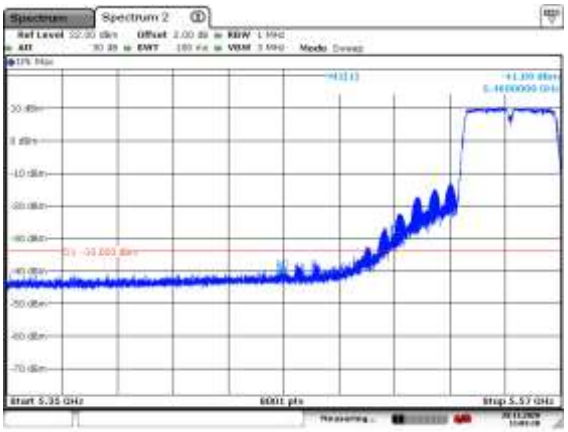
5190MHz with SISO	5190MHz with SISO
	
5230MHz with SISO	5230MHz with SISO
	
5190MHz with CDD	5190MHz with CDD
	

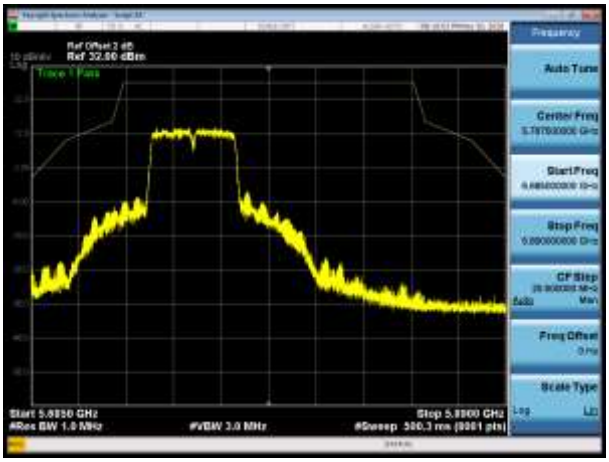
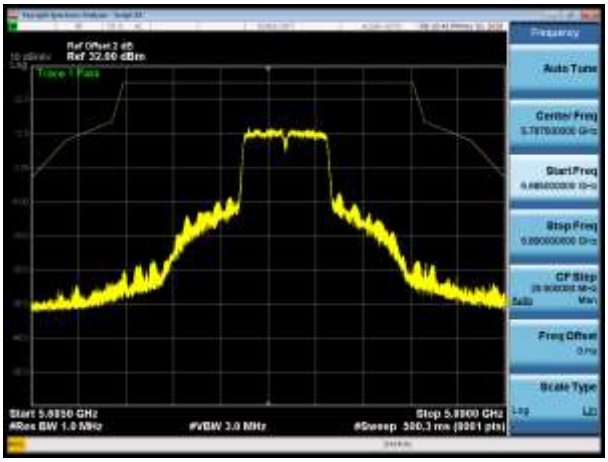
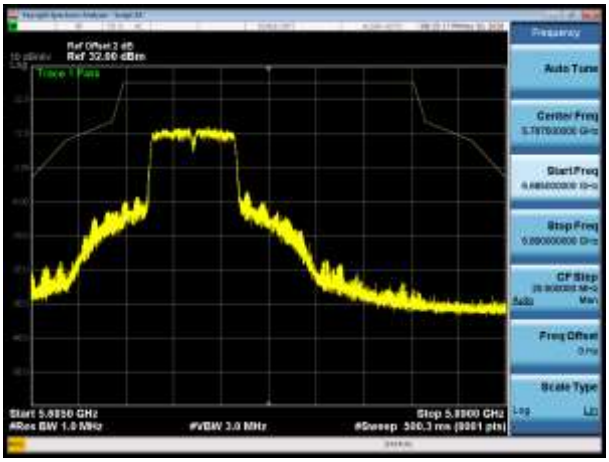
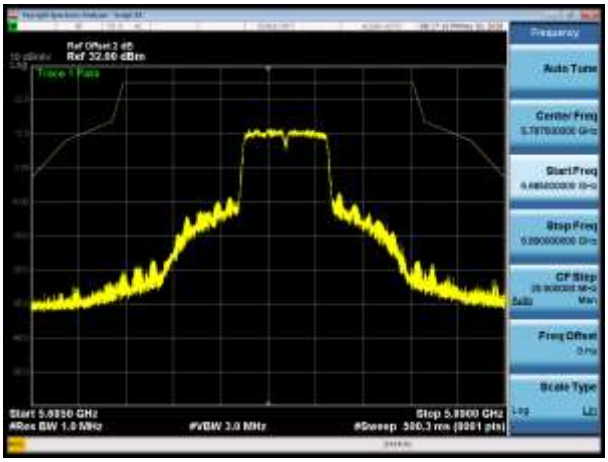
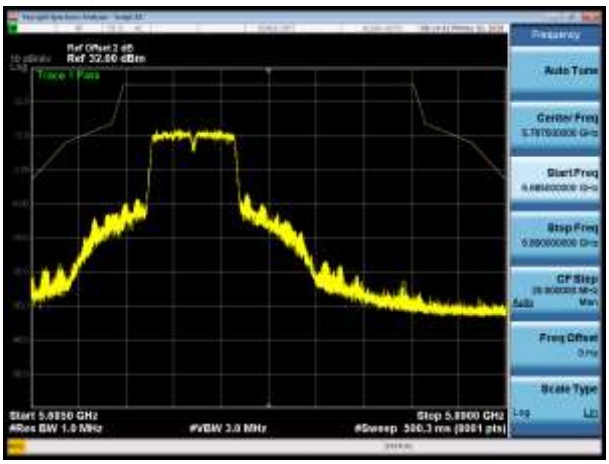
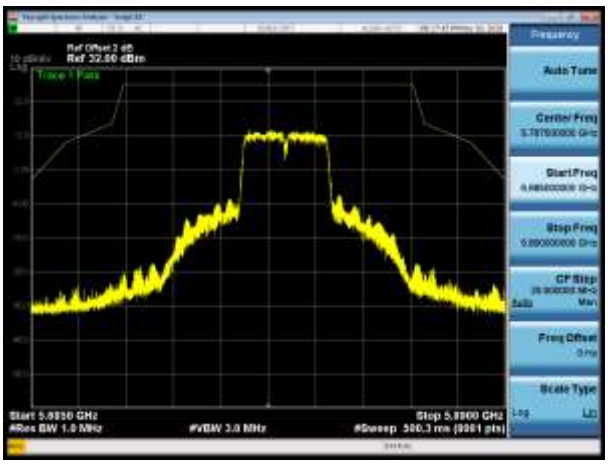
5230MHz with CDD	5230MHz with CDD
	
5190MHz with Beamforming	5190MHz with Beamforming
	
5230MHz with Beamforming	5230MHz with Beamforming
	

5270MHz with SISO	5270MHz with SISO
	
5310MHz with SISO	5310MHz with SISO
	
5510MHz with SISO	5510MHz with SISO
	

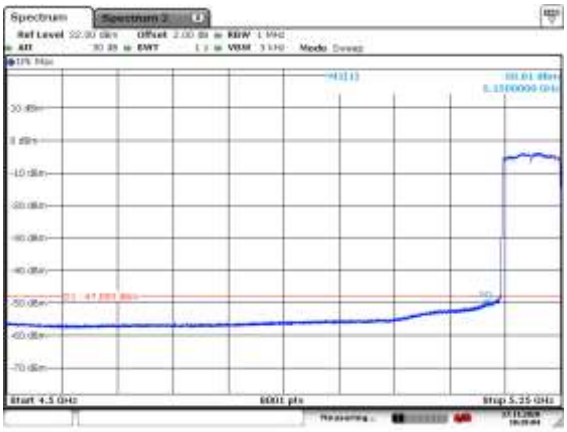
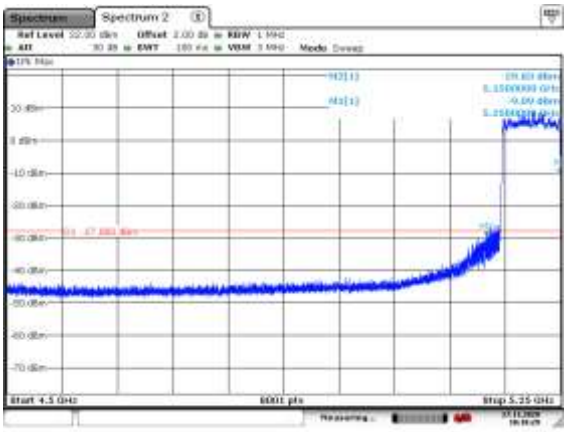
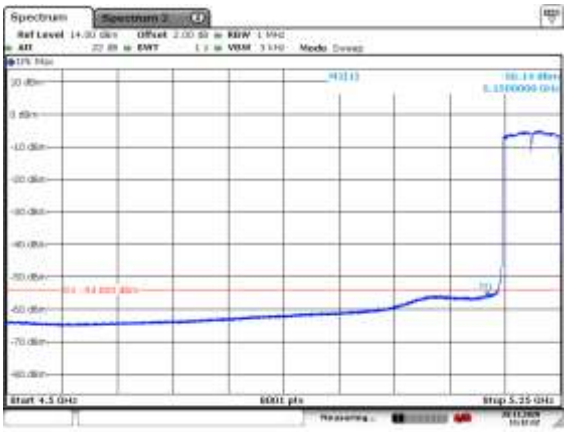
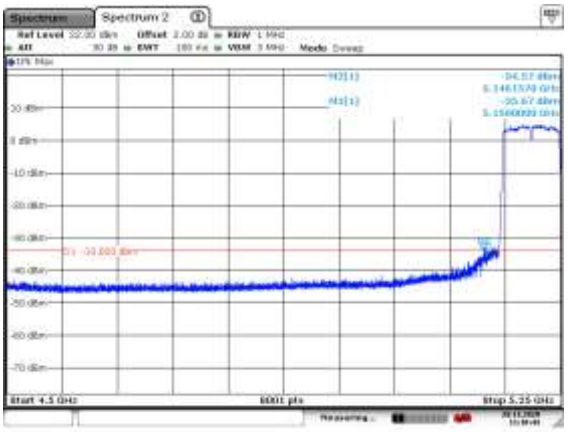
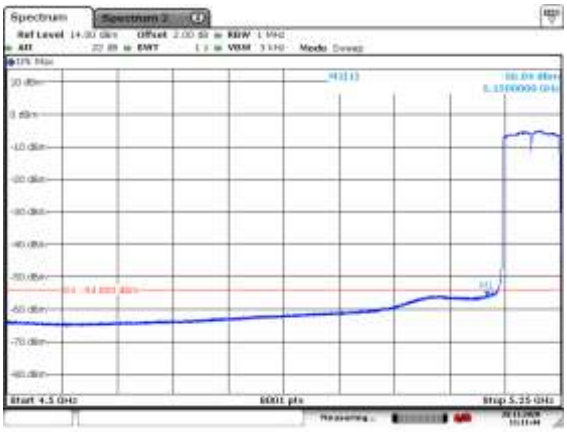
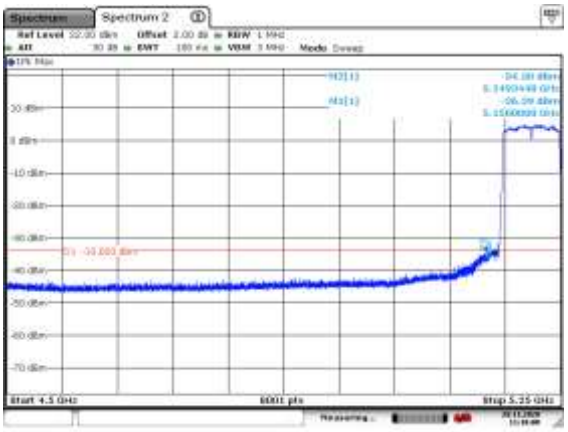
5550MHz with SISO	5550MHz with SISO
	
5270MHz with CDD	5270MHz with CDD
	
5310MHz with CDD	5310MHz with CDD
	

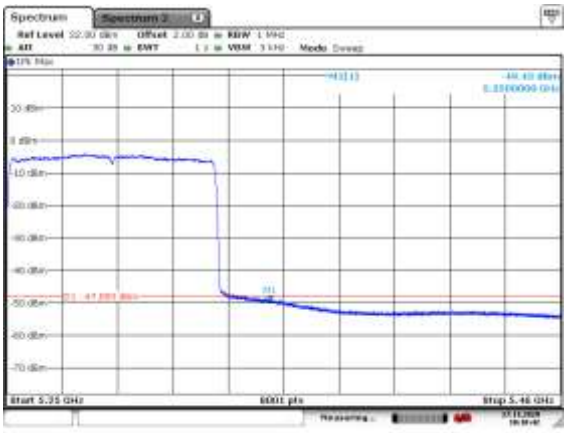
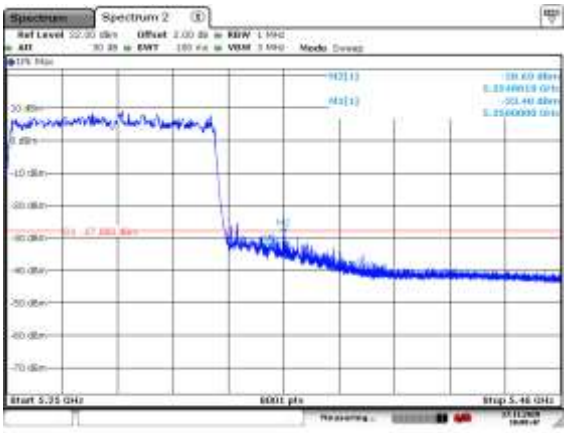
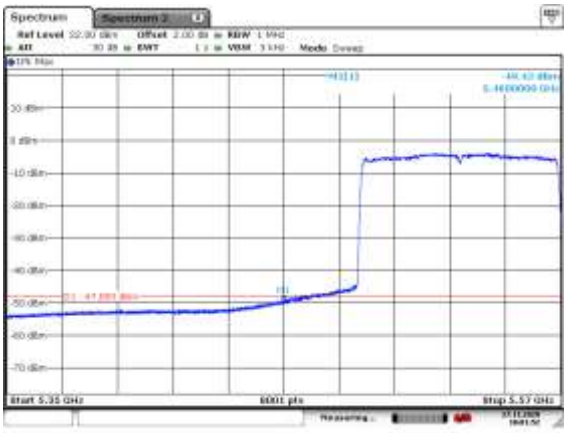
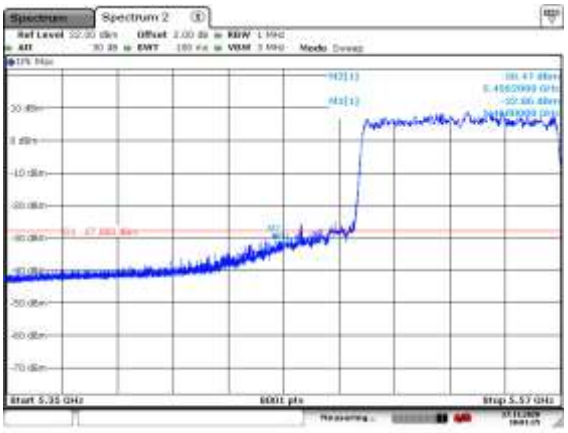
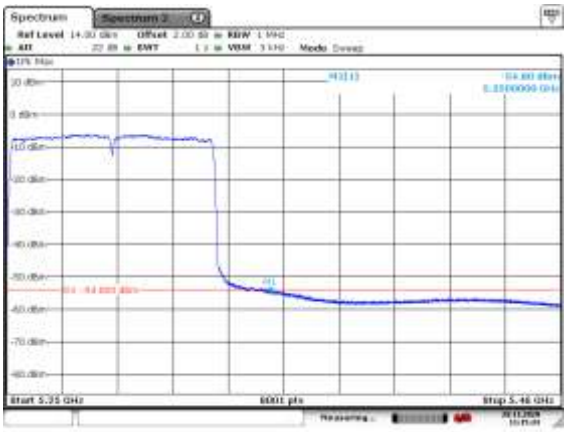
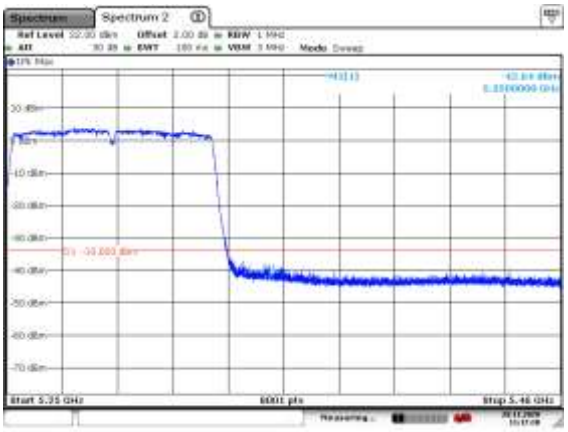
5510MHz with CDD	5510MHz with CDD
	
5550MHz with CDD	5550MHz with CDD
	
5270MHz with Beamforming	5270MHz with Beamforming
	

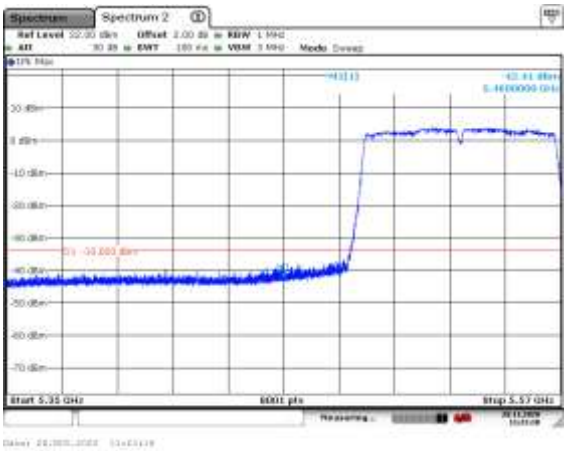
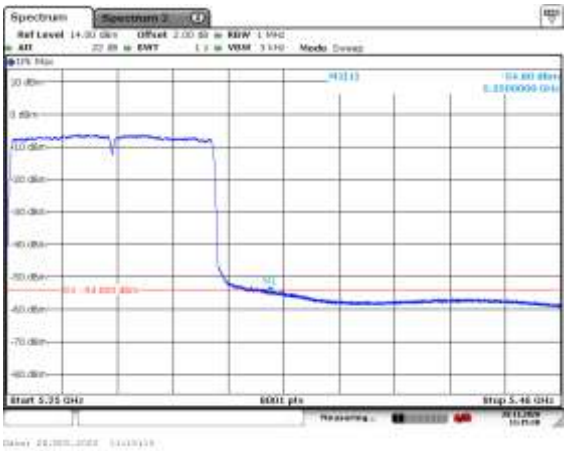
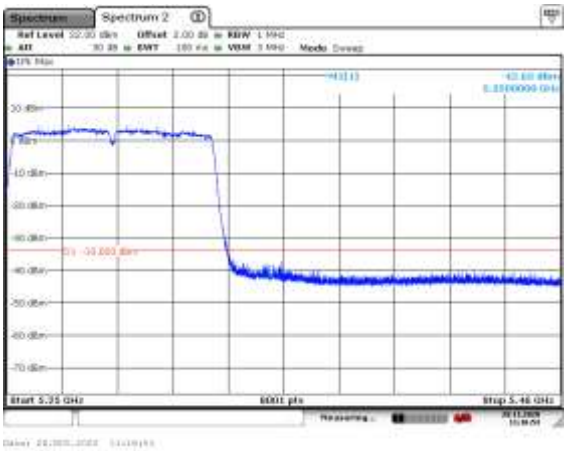
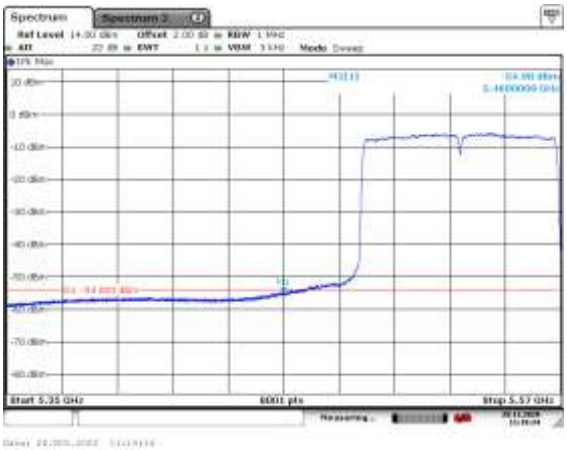
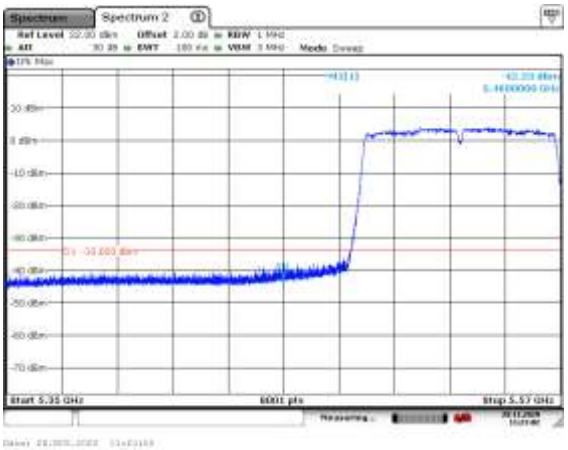
5310MHz with Beamforming	5310MHz with Beamforming
	
5510MHz with Beamforming	5510MHz with Beamforming
	
5550MHz with Beamforming	5550MHz with Beamforming
	

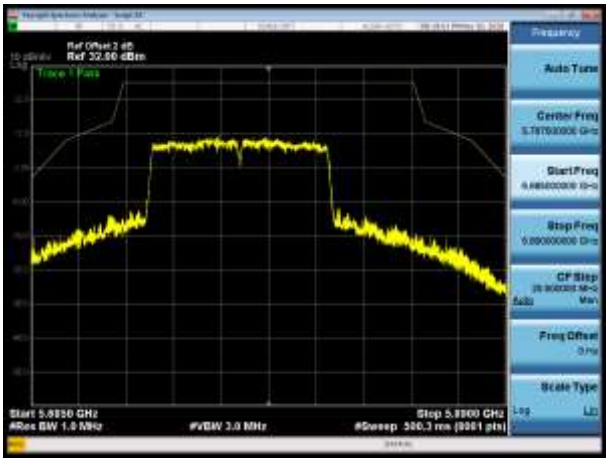
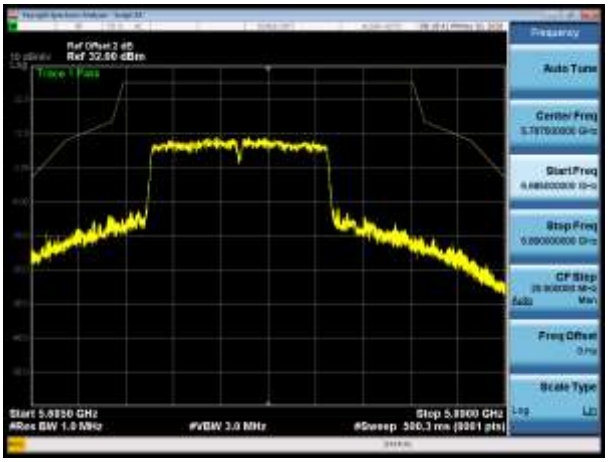
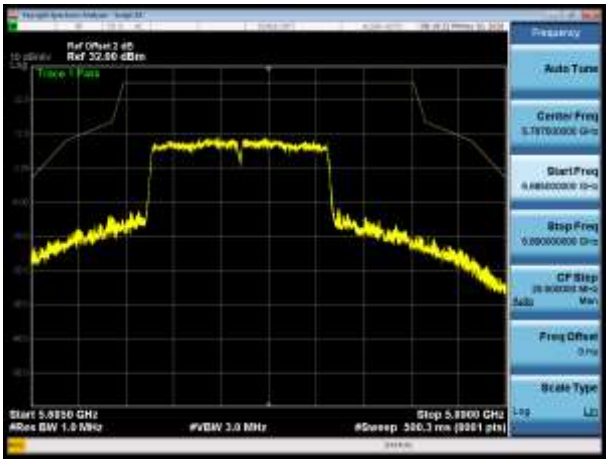
5755MHz with SISO	5795MHz with SISO
	
5755MHz with CDD	5795MHz with CDD
	
5755MHz with Beamforming	5795MHz with Beamforming
	

802.11ax(80MHz)

5210MHz with SISO	5210MHz with SISO
	
5210MHz with CDD	5210MHz with CDD
	
5210MHz with Beamforming	5210MHz with Beamforming
	

5290MHz with SISO	5290MHz with SISO
	
5530MHz with SISO	5530MHz with SISO
	
5290MHz with CDD	5290MHz with CDD
	

5530MHz with CDD 	5530MHz with CDD 
5290MHz with Beamforming 	5290MHz with Beamforming 
5530MHz with Beamforming 	5530MHz with Beamforming 

5775MHz with SISO	5775MHz with CDD
	
5775MHz with Beamforming	
	

Note: 1: We have evaluated both CDD and Beamforming mode, shown in the report is the worst data.

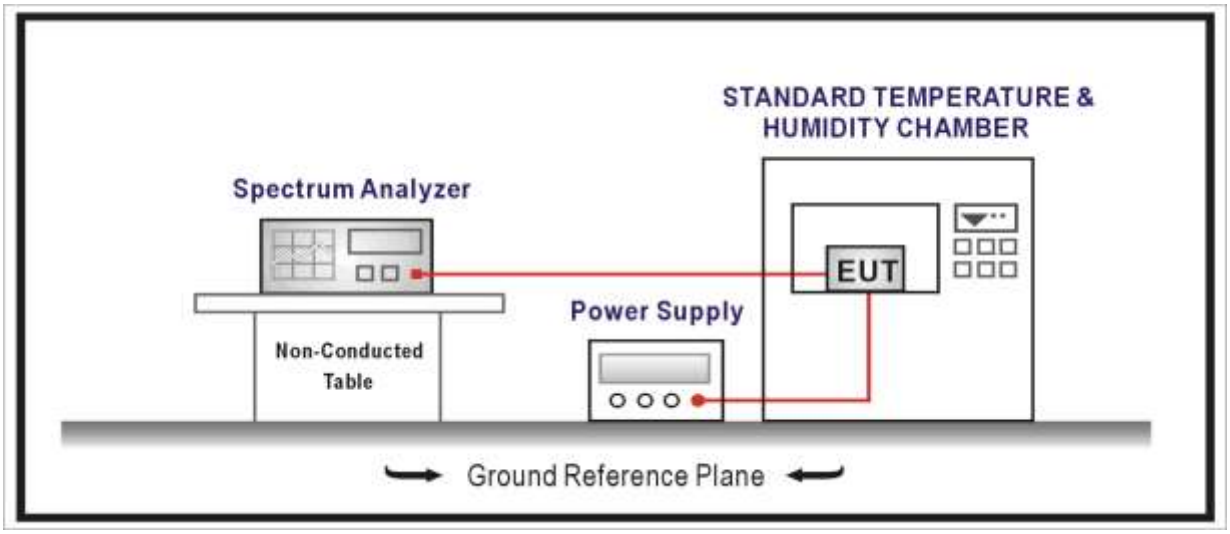
Note: 2: We have evaluated all modes, channels, bandwidths and different antennas, shown in the report is the worst data.

10. Frequency Stability

10.1. Test Equipment

Frequency Stability / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2020.08.15	2021.08.14
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2020.08.15	2021.08.14
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2020.09.02	2021.09.01
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

10.2. Test Setup



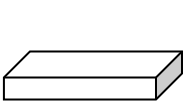
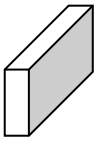
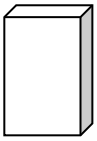
10.3. Limit

Frequency Stability Limit	
UNII Devices	
☒	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11n-2009	
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25ppm maximum for the 2.4 GHz band.

10.4. Test Procedure

Frequency Stability Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		6.8	Frequency stability tests
	☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

10.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">Frequency Stability</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td colspan="2">Worst Axis ☐</td></tr>
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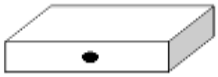
<tr><td>☒</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
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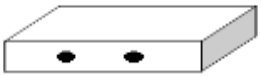
<tr><td></td><td colspan="4">  </td></tr>
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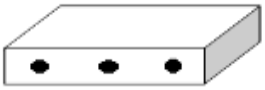
<tr><td></td><td colspan="4">  </td></tr>
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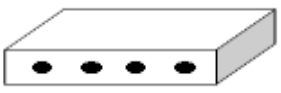
<tr><td></td><td colspan="4">  </td></tr>
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10.6. Test Result

N/A

11. Antenna Requirement

11.1. Limit

Antenna Requirement Limit
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

11.2. Antenna Connector Construction

Antenna Connector Construction	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document “Internal Photograph” to show the antenna connector.	

The End