FCC RADIO TEST REPORT

FCC ID	:	**UZ7TC5301**
Equipment	:	**Touch Computer**
Brand Name	:	**Zebra**
Model Name	:	**TC5301**
Applicant	:	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	:	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 20, 2021 and testing was performed from Dec. 22, 2021 to Feb. 26, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR1D2108E	01	Initial issue of report	Mar. 08, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.08 dB under the limit at 5453.200 MHz
3.5	15.207	AC Conducted Emission	Pass	15.63 dB under the limit at 13.560 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
   It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC5301
FCC ID	UZ7TC5301
Sample1	Lowell + Premium config
Sample2	SE4720 + Base config
Sample3	Lowell + Base config
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	11-05-19.00-RG-U00-PRD-ATH-04 99 test-keys
FW Version	FUSION_QA_4_1.0.0.007_R
MFD	03DEC21
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Specification of Accessories				
Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Battery 1X	**Brand Name**	Zebra	**Part Number**	BT-000442-0020
USB TYPE A to TYPE C cable	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
3.5mm Earphone	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTVP-01
Headset Jumper	**Brand Name**	Zebra	**Part Number**	CBL-TC51-HDST35-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-NGTC5-ELEC-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-NGTC5TC7-HLSTR-01
TC53/TC58 RUGGED BOOT	**Brand Name**	Zebra	**Part Number**	SG-NGTC5EXO1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna <CDD Mode>	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 9 + 8>** 802.11a: 21.36 dBm / 0.1368W 802.11n HT20: 20.96 dBm / 0.1247 W 802.11n HT40: 18.26 dBm / 0.0670 W 802.11ac VHT20: 21.06 dBm / 0.1276 W 802.11ac VHT40: 18.36 dBm / 0.0685 W 802.11ac VHT80: 16.11 dBm / 0.0408 W 802.11ac VHT160: 15.57 dBm / 0.0361 W 802.11ax HE20: 21.16 dBm / 0.1306 W 802.11ax HE40: 18.46 dBm / 0.0701 W 802.11ax HE80: 16.21 dBm / 0.0418 W 802.11ax HE160: 15.67 dBm / 0.0369 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 9 + 8>** 802.11a: 20.96 dBm / 0.1247W 802.11n HT20: 20.56 dBm / 0.1138 W 802.11n HT40: 18.67 dBm / 0.0736 W 802.11ac VHT20: 20.66 dBm / 0.1164 W 802.11ac VHT40: 18.77 dBm / 0.0753 W 802.11ac VHT80: 15.46 dBm / 0.0352 W 802.11ac VHT160: 15.57 dBm / 0.0361 W 802.11ax HE20: 20.76 dBm / 0.1191 W 802.11ax HE40: 18.87 dBm / 0.0771 W 802.11ax HE80: 15.56 dBm / 0.0360 W 802.11ax HE160: 15.67 dBm / 0.0369 W **<5500 MHz ~ 5720 MHz>** **MIMO <Ant. 9 + 8>** 802.11a: 20.96 dBm / 0.1247 W 802.11n HT20: 20.76 dBm / 0.1191 W 802.11n HT40: 20.61 dBm / 0.1151 W 802.11ac VHT20: 20.86 dBm / 0.1219 W 802.11ac VHT40: 20.71 dBm / 0.1178 W 802.11ac VHT80: 18.52 dBm / 0.0711 W 802.11ac VHT160: 16.81 dBm / 0.0480 W 802.11ax HE20: 20.96 dBm / 0.1247 W 802.11ax HE40: 20.81 dBm / 0.1205 W 802.11ax HE80: 18.62 dBm / 0.0728 W 802.11ax HE160: 16.91 dBm / 0.0491 W

Product Specification is subject to this standard	
Maximum Output Power to Antenna <TXBF Mode>	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 9 + 8>** 802.11ax HE20: 20.71 dBm / 0.1178 W 802.11ax HE40: 17.86 dBm / 0.0611 W 802.11ax HE80: 15.22 dBm / 0.0333 W 802.11ax HE160: 12.21 dBm / 0.0166 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 9 + 8>** 802.11ax HE20: 20.71 dBm / 0.1178 W 802.11ax HE40: 18.72 dBm / 0.0745 W 802.11ax HE80: 15.97 dBm / 0.0395 W 802.11ax HE160: 12.21 dBm / 0.0166 W **<5500 MHz ~ 5720 MHz>** **MIMO <Ant. 9 + 8>** 802.11ax HE20: 20.76 dBm / 0.1191 W 802.11ax HE40: 19.46 dBm / 0.0883 W 802.11ax HE80: 18.16 dBm / 0.0655 W 802.11ax HE160: 13.22 dBm / 0.0210 W
99% Occupied Bandwidth <CDD Mode>	**MIMO <Ant. 9>** 802.11a: 19.28 MHz 802.11ax HE20: 19.68 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 156.32 MHz **MIMO <Ant. 8>** 802.11a: 25.52 MHz 802.11ax HE20: 22.78 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 156.08MHz
99% Occupied Bandwidth <TXBF Mode>	**MIMO <Ant. 9>** 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.26 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 157.52 MHz **MIMO <Ant. 8>** 802.11ax HE20: 25.03 MHz 802.11ax HE40: 38.36 MHz 802.11ax HE80: 77.80 MHz 802.11ax HE160: 157.28 MHz

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Antenna Type / Gain</td><td><5180 MHz ~ 5240 MHz>
Ant. 9 : PIFA Antenna with gain 3.30 dBi
Ant. 8 : PIFA Antenna with gain 2.30 dBi
<5260 MHz ~ 5320 MHz>
Ant. 9 : PIFA Antenna with gain 3.40 dBi
Ant. 8 : PIFA Antenna with gain 2.40 dBi
<5500 MHz ~ 5720 MHz >
Ant. 9 : PIFA Antenna with gain 3.50 dBi
Ant. 8 : PIFA Antenna with gain 3.30 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM)
802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
802.11ax : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/ 1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><td></td><td>Ant. 9</td><td>Ant. 8</td></tr><tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr><tr><td>802.11 ax TXBF</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

Note:

1. MIMO Ant. 9+8 is a calculated result from sum of the power MIMO Ant. 9 and MIMO Ant. 8.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, 03CH07-HY, TH02-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find (Y Plane for CDD Mode; Z Plane for TXBF Mode) plane as worst plane.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)
5150-5350 MHz	50@	5250
5470-5725 MHz	114@	5570

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel with "@" are 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The CDD mode is chosen as worst case configuration for all test cases due to higher power than SISO mode.

The 802.11n/ac mode has no higher power and PSD than 802.11ax mode, thus the 802.11ax mode is chosen as main test configuration, and the 802.11n/ac mode is verified the power.

The final test modes consider the modulation and the worst data rates as shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

TXBF Mode

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC On + USB TYPE-A to TYPE-C cable with AC Adapter + 3.5mm Earphone + Battery 1X for Sample 2
Remark: For Radiated Test Cases, the tests were performed with Sample 2.	

<Sample 1>

Ch. #		Band I：5150-5250 MHz
		802.11ax HE40
L	Low	-
M	Middle	-
H	High	46

<Sample 2>

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160	5150-5350 MHz	5470-5725MHz
	802.11ax HE160	802.11ax HE160
Ch. #	50	114

<CDD Mode>

MIMO <Ant. 9+8>

802.11a RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)							
		6M		9M	12M	18M	24M	36M	48M	54M
Duty Cycle (%)											
CH 036	5180	18.66	CH 044	21.26	21.26	21.26	21.21	21.21	21.11	21.11
CH 044	5220	**21.36**								
CH 048	5240	21.16								
CH 052	5260	**20.96**	CH 052	20.86	20.86	20.81	20.81	20.81	20.81	20.71
CH 060	5300	18.91								
CH 064	5320	18.86								
CH 100	5500	20.31	CH 144*	20.86	20.86	20.86	20.76	20.76	20.76	20.66
CH 116	5580	20.81								
CH 140	5700	19.21								
CH 144*	5720	**20.96**								

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE20 RF Output Power (dBm)														
Power vs. Channel				Power vs Data Rate										
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index									
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
Duty Cycle (%)														
CH 036	5180	Full	20.11	CH 048	20.96	20.96	20.76	20.86	20.96	20.91	20.86	20.86	20.86	20.96	20.96
CH 036	5180	26/0	10.82												
CH 036	5180	52/37	13.71												
CH 036	5180	106/53	16.56												
CH 044	5220	Full	19.61												
CH 044	5220	26/4	10.92												
CH 044	5220	52/39	12.86												
CH 044	5220	106/53	15.86												
CH 048	5240	Full	**21.16**												
CH 048	5240	26/8	11.73												
CH 048	5240	52/40	14.67												
CH 048	5240	106/54	17.61												
CH 052	5260	Full	**20.76**	CH 052	20.66	20.56	20.51	20.46	20.46	20.51	20.46	20.41	20.46	20.51	20.46
CH 052	5260	26/0	11.51												
CH 052	5260	52/37	14.46												
CH 052	5260	106/53	17.21												
CH 060	5300	Full	18.87												
CH 060	5300	26/4	10.72												
CH 060	5300	52/39	12.01												
CH 060	5300	106/54	15.12												
CH 064	5320	Full	18.91												
CH 064	5320	26/8	9.41												
CH 064	5320	52/40	12.41												
CH 064	5320	106/54	15.06												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE20 RF Output Power (dBm)														
Power vs. Channel				Power vs Data Rate										
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index									
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
Duty Cycle (%)														
CH 100	5500	Full	16.67	CH 116	20.81	20.76	20.71	20.76	20.76	20.81	20.71	20.76	20.81	20.76	20.76
CH 100	5500	26/0	7.07												
CH 100	5500	52/37	10.58												
CH 100	5500	106/53	13.58												
CH 116	5580	Full	**20.96**												
CH 116	5580	26/4	13.32												
CH 116	5580	52/38	14.96												
CH 116	5580	106/53	17.76												
CH 140	5700	Full	18.61												
CH 140	5700	26/8	8.86												
CH 140	5700	52/40	11.66												
CH 140	5700	106/54	14.86												
CH 144*	5720	Full	**20.96**												
CH 144*	5720	26/8	12.12												
CH 144*	5720	52/40	14.71												
CH 144*	5720	106/54	18.07												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE40 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
Duty Cycle (%)			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 038	5190	Full	16.57	CH 046	18.36	18.36	18.36	18.31	18.36	18.36	18.26	18.26	18.36	18.36	18.31
CH 038	5190	242/61	13.61												
CH 046	5230	Full	**18.46**												
CH 046	5230	242/62	16.71												
CH 054	5270	Full	**18.87**	CH 054	18.67	18.67	18.72	18.77	18.72	18.67	18.77	18.71	18.67	18.71	18.61
CH 054	5270	242/61	16.22												
CH 062	5310	Full	16.66												
CH 062	5310	242/62	13.71												
CH 102	5510	Full	17.86	CH 110	20.71	20.61	20.57	20.46	20.56	20.56	20.61	20.61	20.57	20.51	20.71
CH 102	5510	242/61	14.56												
CH 110	5550	Full	**20.81**												
CH 110	5550	242/61	17.86												
CH 134	5670	Full	17.26												
CH 134	5670	242/62	14.53												
CH 142*	5710	Full	20.07												
CH 142*	5710	242/62	17.42												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE80 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
Duty Cycle (%)			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 042	5210	Full	**16.21**	CH 042	16.11	16.06	16.01	15.87	15.91	15.86	15.96	15.91	16.01	16.06	16.11
CH 042	5210	484/65	13.51												
CH 058	5290	Full	**15.56**	CH 058	15.46	15.36	15.41	15.26	15.26	15.31	15.31	15.36	15.46	15.36	15.41
CH 058	5290	484/66	12.76												
CH 106	5530	Full	15.92	CH 138*	18.52	18.52	18.47	18.47	18.47	18.52	18.52	18.47	18.52	18.47	18.37
CH 106	5530	484/65	13.33												
CH 122	5610	Full	16.16												
CH 122	5610	484/66	13.36												
CH 138*	5690	Full	**18.62**												
CH 138*	5690	484/66	15.87												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE160 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
Duty Cycle (%)			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 050	5250	Full	**15.67**	CH 050	15.57	15.51	15.52	15.36	15.37	15.37	15.47	15.51	15.51	15.52	15.52
CH 050	5250	996/67	12.91												
CH 050	5250	996/S67	13.56												
CH 114	5570	Full	**16.91**	CH 114	16.81	16.72	16.57	16.62	16.61	16.56	16.66	16.71	16.81	16.81	16.77
CH 114	5570	996/67	14.27												
CH 114	5570	996/S67	14.01												

Note: The above Frequency and Channel in "*" were straddle Channel.

<TXBF Mode>

MIMO <Ant. 9+8>

802.11ax HE20 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 036	5180	Full	15.81	CH 048	20.61	20.51	20.51	20.41	20.41	20.46	20.51	20.51	20.56	20.61	20.61
CH 044	5220	Full	18.86												
CH 048	5240	Full	**20.71**												
CH 052	5260	Full	**20.71**	CH 052	20.61	20.56	20.51	20.41	20.41	20.46	20.51	20.51	20.56	20.61	20.61
CH 060	5300	Full	18.77												
CH 064	5320	Full	15.11												
CH 100	5500	Full	16.41	CH 144*	20.66	20.61	20.61	20.51	20.46	20.56	20.56	20.61	20.66	20.66	20.66
CH 116	5580	Full	20.71												
CH 140	5700	Full	15.01												
CH 144*	5720	Full	**20.76**												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE40 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 038	5190	Full	15.17	CH 046	17.76	17.66	17.56	17.51	17.61	17.61	17.61	17.61	17.66	17.71	17.76
CH 046	5230	Full	**17.86**												
CH 054	5270	Full	**18.72**	CH 054	18.62	18.57	18.52	18.47	18.42	18.42	18.47	18.52	18.47	18.52	18.57
CH 062	5310	Full	16.21												
CH 102	5510	Full	14.51	CH 142*	19.36	19.31	19.21	19.21	19.21	19.21	19.21	19.26	19.31	19.36	19.36
CH 110	5550	Full	18.11												
CH 134	5670	Full	16.86												
CH 142*	5710	Full	**19.46**												

Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE80 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 042	5210	Full	**15.22**	CH 042	15.12	15.07	14.97	14.97	14.87	14.92	14.97	15.02	15.02	15.12	15.12
CH 058	5290	Full	**15.97**	CH 058	15.87	15.82	15.72	15.67	15.67	15.67	15.62	15.72	15.77	15.81	15.87
CH 106	5530	Full	15.26	CH 138*	18.06	18.06	17.96	17.96	17.86	17.91	17.86	17.96	17.96	18.06	18.01
CH 122	5610	Full	16.01												
CH 138*	5690	Full	**18.16**												

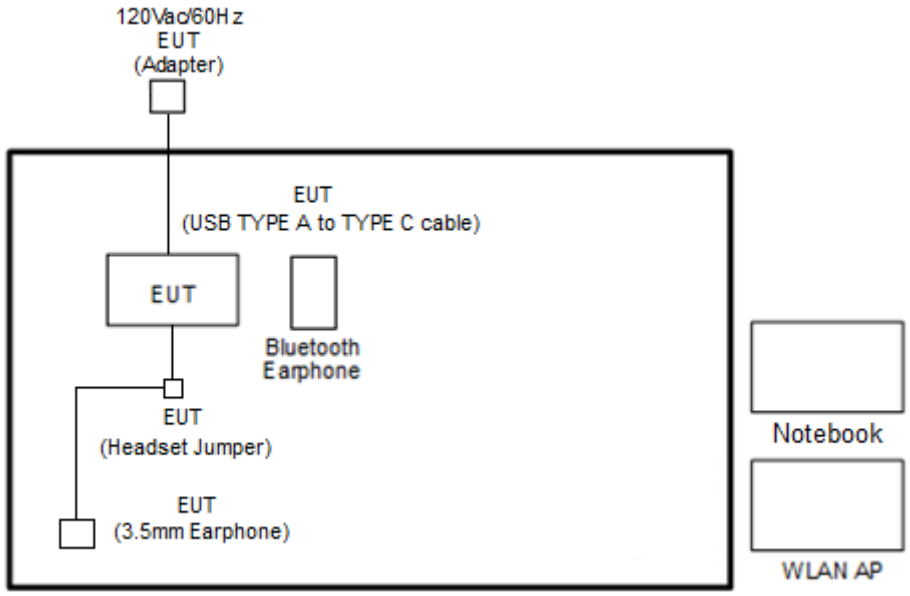
Note: The above Frequency and Channel in "*" were straddle Channel.

802.11ax HE160 RF Output Power (dBm)													
Power vs. Channel				Power vs Data Rate									
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index								
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 050	5250	Full	**12.21**	CH 050	12.11	12.11	12.01	12.06	11.96	11.91	11.91	12.01	12.06	12.07	12.06
CH 114	5570	Full	**13.22**	CH 114	13.12	13.07	13.07	13.02	12.97	12.97	12.97	12.97	13.02	13.12	13.12

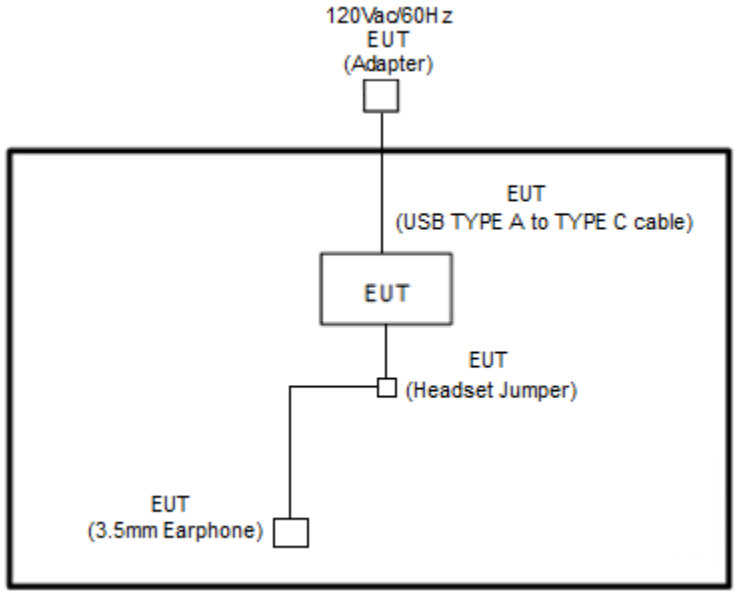
Note: The above Frequency and Channel in "*" were straddle Channel.

2.3 Connection Diagram of Test System

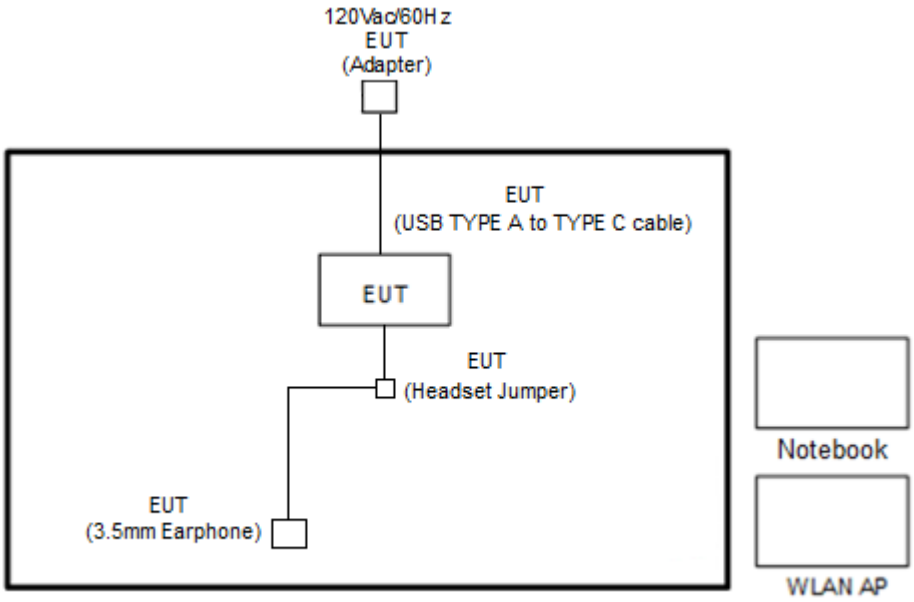
<AC Conducted Emission Mode>



<CDD Mode>



<TXBF Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	WLAN AP	ASUS	RT-AX88U	N/A	N/A	N/A
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	Dell	P79G	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Ver.4.0.00195.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Magic iPerf Ver.1.0” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

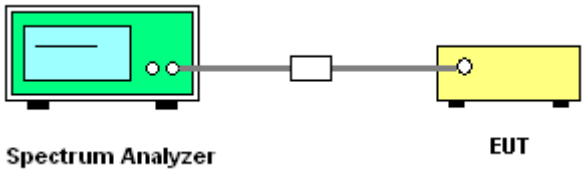
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

<CDD Mode>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

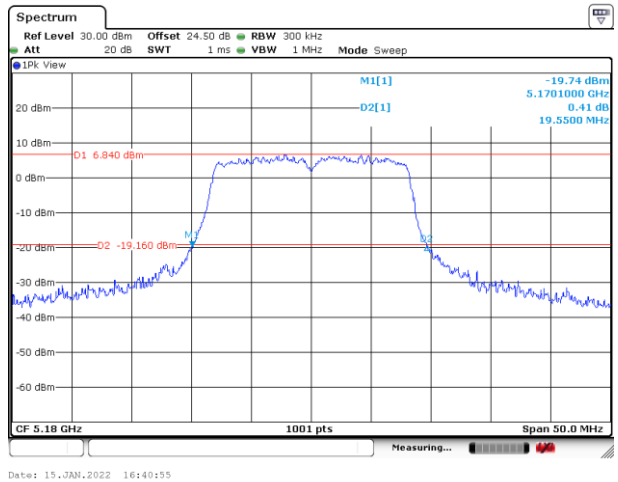
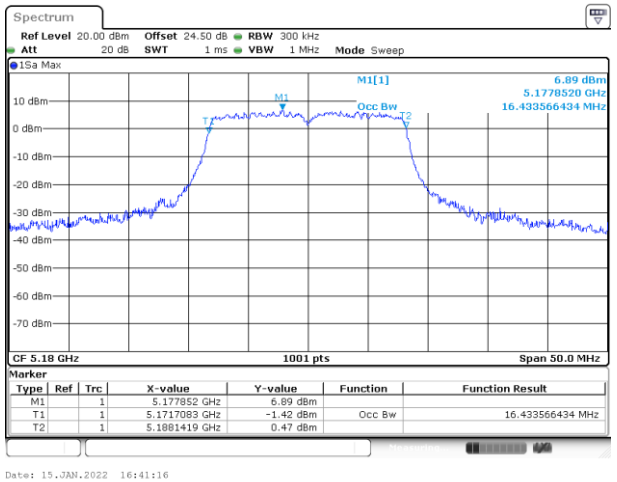
Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	36	5180	16.43	16.53	19.55	21.75	-		22.16		
11a	6Mbps	2	44	5220	**19.28**	**25.52**	**36.48**	43.88	-		22.85		
11a	6Mbps	2	48	5240	18.93	24.68	35.30	**48.01**	-		22.77		

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	52	5260	**18.73**	**20.88**	**36.15**	**38.15**	23.73		29.73		23.98		
11a	6Mbps	2	60	5300	16.43	16.53	19.70	23.55	23.16		29.16		23.94		
11a	6Mbps	2	64	5320	16.43	16.43	19.75	19.55	23.16		29.16		23.91		

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
11a	6Mbps	2	100	5500	16.73	17.18	25.90	**39.60**	23.24		29.24		23.98		----	----
11a	6Mbps	2	116	5580	**17.13**	**20.03**	**46.17**	38.00	23.34		29.34		23.98		----	----
11a	6Mbps	2	140	5700	16.43	16.43	19.65	20.25	23.16		29.16		23.93		----	----

Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
11a	6Mbps	2	144	5720	13.49	16.59	17.75	27.29	22.30		28.30		23.49		3.2	3.2

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax Mode>

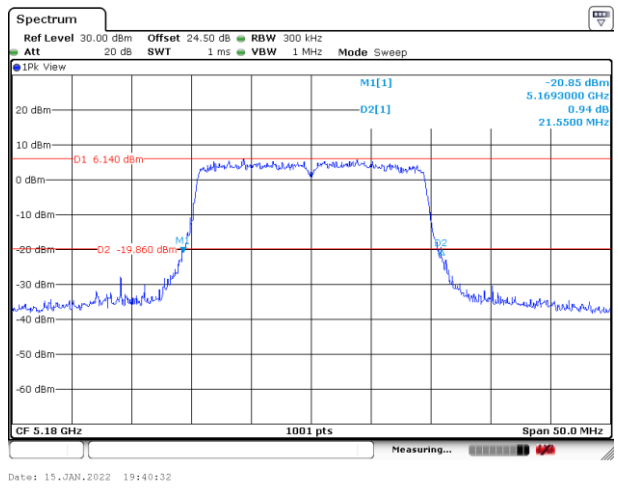
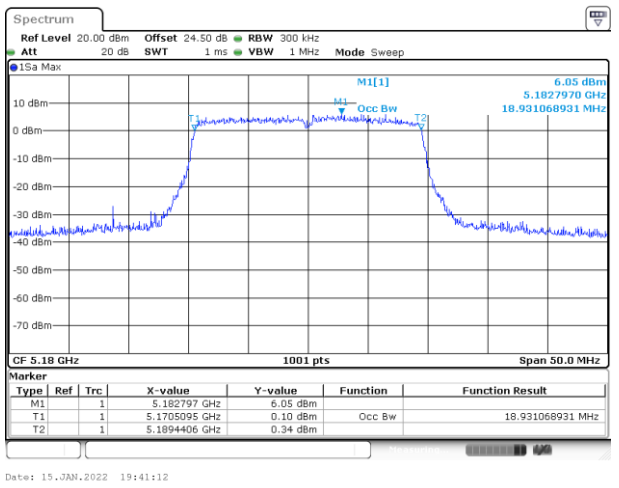
Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full	18.93	18.93	21.55	21.15	-		22.77		
HE20	MCS0	2	44	5220	Full	19.03	19.08	24.95	30.05	-		22.79		
HE20	MCS0	2	48	5240	Full	19.68	22.78	34.81	45.86	-		22.94		
HE40	MCS0	2	38	5190	Full	37.96	37.86	40.50	40.39	-		23.01		
HE40	MCS0	2	46	5230	Full	37.86	38.06	40.14	40.32	-		23.01		
HE80	MCS0	2	42	5210	Full	77.20	77.20	82.88	82.56	-		23.01		
HE160	MCS0	2	50	5250	Full	**156.08**	**156.08**	**166.40**	**166.40**	-		23.01		

Band II MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	52	5260	Full	19.13	19.63	29.00	44.53	23.82		29.82		23.98		
HE20	MCS0	2	60	5300	Full	18.93	18.98	21.60	21.90	23.77		29.77		23.98		
HE20	MCS0	2	64	5320	Full	18.93	18.93	21.55	21.35	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	37.96	38.06	39.87	40.68	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.96	37.96	40.68	40.05	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	**77.20**	**77.32**	**82.88**	**83.20**	23.98		30.00		23.98		
HE160	MCS0	2	50	5250	Full	156.08	156.08	**166.40**	**166.40**	23.98		30.00		23.98		

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
HE20	MCS0	2	100	5500	Full	18.93	18.93	21.15	21.30	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	19.23	19.58	33.25	39.70	23.84		29.84		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.93	18.93	21.40	21.35	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.96	37.96	40.32	40.41	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	38.06	40.14	40.32	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.96	37.96	40.32	40.23	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.32	77.20	82.88	83.04	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.32	77.32	83.04	82.40	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	**156.32**	**156.08**	**167.36**	**166.72**	23.98		30.00		23.98		----	----

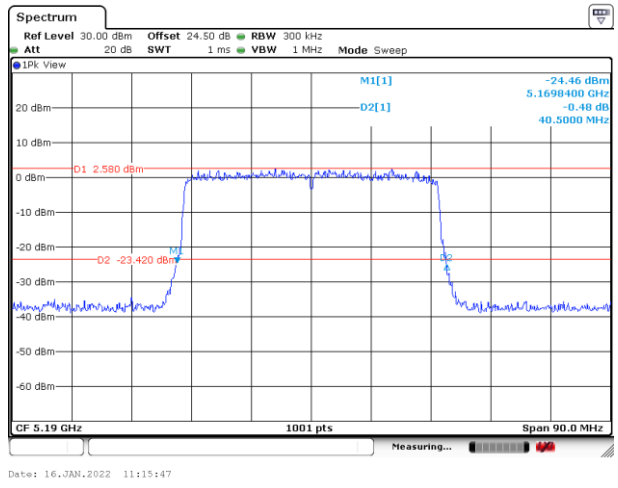
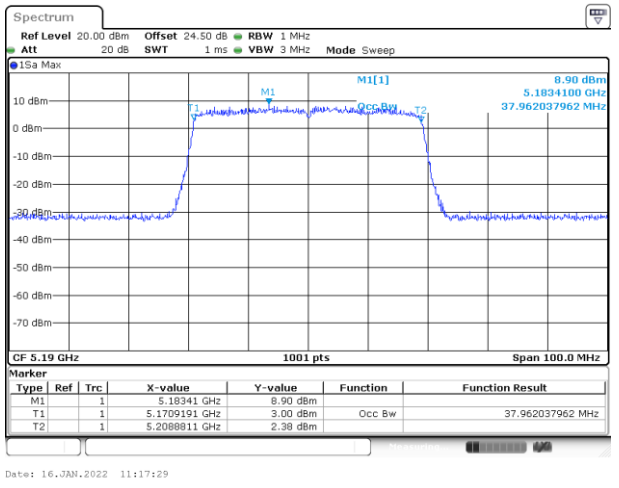
Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
HE20	MCS0	2	144	5720	Full	14.69	15.19	18.98	25.19	22.67		28.67		23.78		4.50	4.30
HE40	MCS0	2	142	5710	Full	33.98	34.18	35.07	41.37	23.98		30.00		23.98		4.08	**3.99**
HE80	MCS0	2	138	5690	Full	73.72	73.60	76.28	76.12	23.98		30.00		23.98		4.04	4.20

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

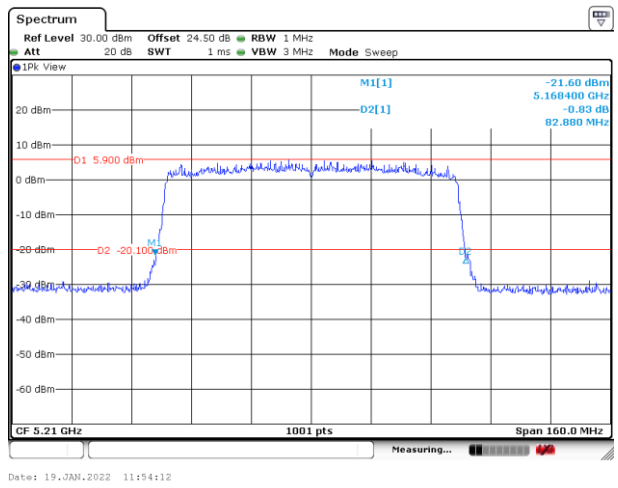
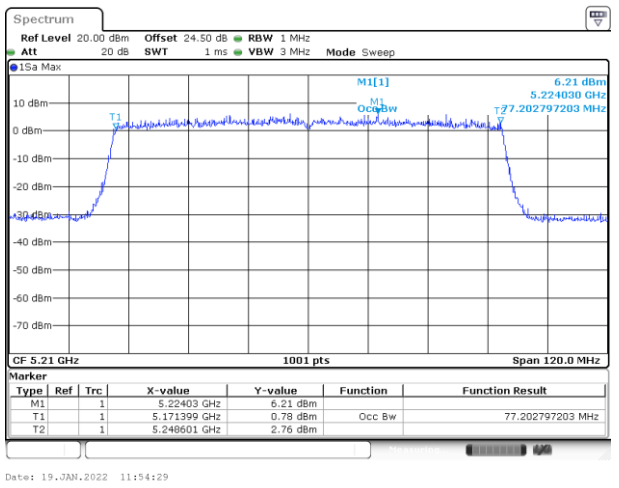
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

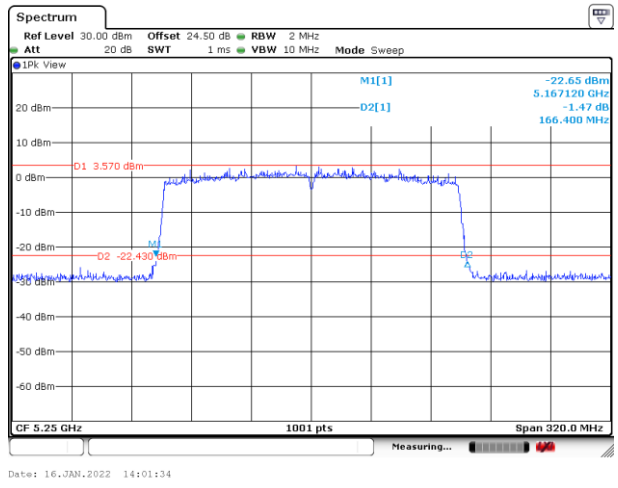
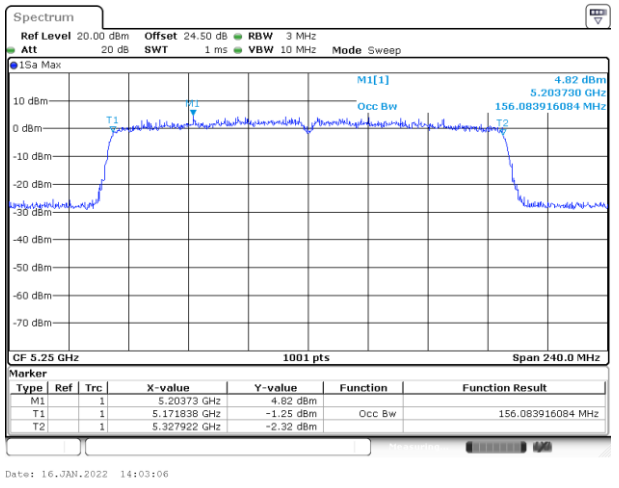
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE160>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

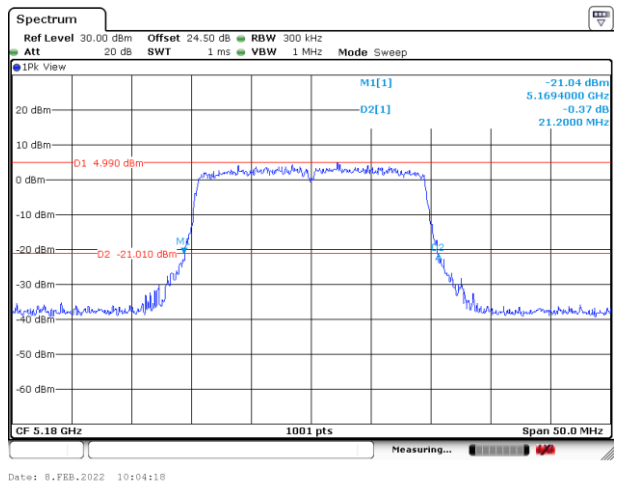
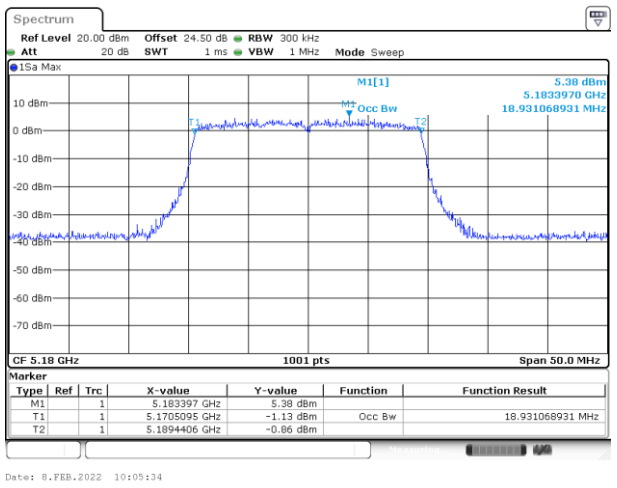
Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full	18.93	18.93	21.20	21.10	-		22.77		
HE20	MCS0	2	44	5220	Full	18.98	18.98	21.55	21.60	-		22.78		
HE20	MCS0	2	48	5240	Full	19.23	24.78	32.95	42.93	-		22.84		
HE40	MCS0	2	38	5190	Full	37.96	38.36	40.95	40.50	-		23.01		
HE40	MCS0	2	46	5230	Full	38.26	38.06	40.59	40.23	-		23.01		
HE80	MCS0	2	42	5210	Full	77.20	77.20	83.20	83.20	-		23.01		
HE160	MCS0	2	50	5250	Full	**157.28**	**157.04**	**164.48**	**163.52**	-		23.01		

Band II MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	52	5260	Full	19.18	25.03	28.84	49.70	23.83		29.83		23.98		
HE20	MCS0	2	60	5300	Full	18.98	19.03	21.60	21.60	23.78		29.78		23.98		
HE20	MCS0	2	64	5320	Full	18.93	18.93	21.30	21.10	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	38.06	38.06	41.22	50.67	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.96	37.96	40.86	40.23	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.32	**77.20**	**85.12**	**84.32**	23.98		30.00		23.98		
HE160	MCS0	2	50	5250	Full	157.28	157.04	**164.48**	163.52	23.98		30.00		23.98		

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
HE20	MCS0	2	100	5500	Full	18.98	18.93	21.35	21.30	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	19.13	19.38	24.84	33.27	23.82		29.82		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.98	18.93	21.50	21.40	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	38.06	38.26	41.13	40.50	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	38.26	38.26	42.12	41.67	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.06	37.96	41.49	41.58	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.32	77.80	84.16	81.76	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.20	77.20	85.44	83.36	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	**157.52**	**157.28**	**163.52**	**163.52**	23.98		30.00		23.98		----	----

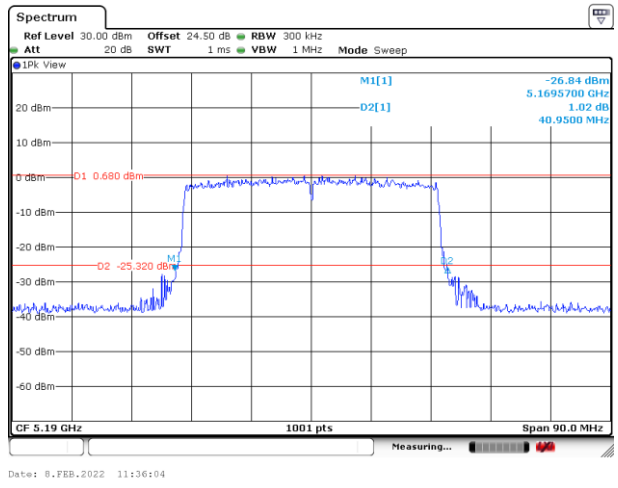
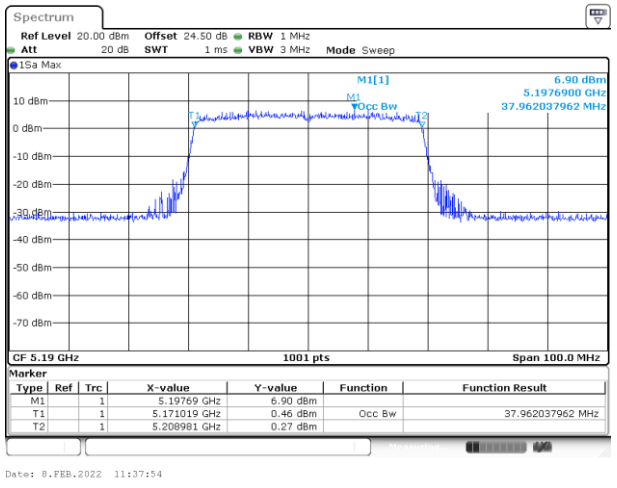
Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8	Ant 9	Ant 8
HE20	MCS0	2	144	5720	Full	14.54	15.39	16.60	22.68	22.63		28.63		23.20		4.55	4.25
HE40	MCS0	2	142	5710	Full	34.08	34.18	36.24	50.82	23.98		30.00		23.98		3.99	3.99
HE80	MCS0	2	138	5690	Full	73.96	73.96	75.96	75.80	23.98		30.00		23.98		3.24	**2.76**

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

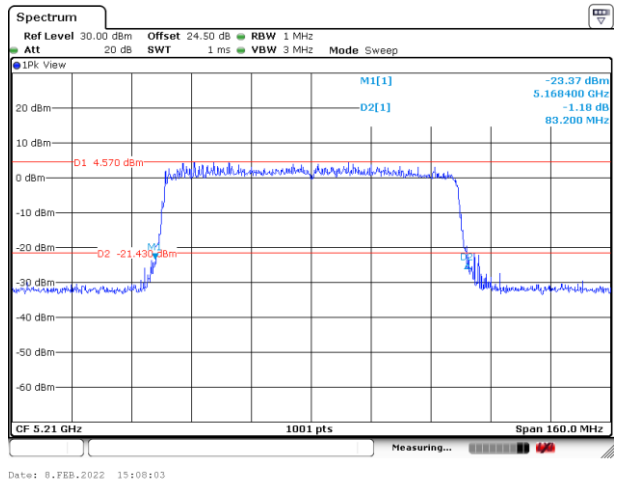
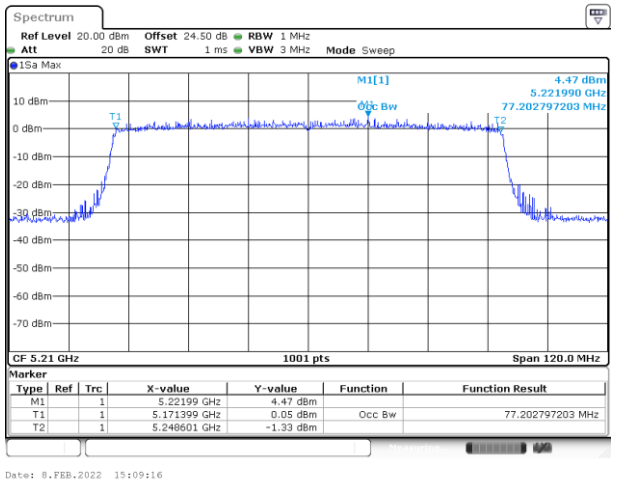
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

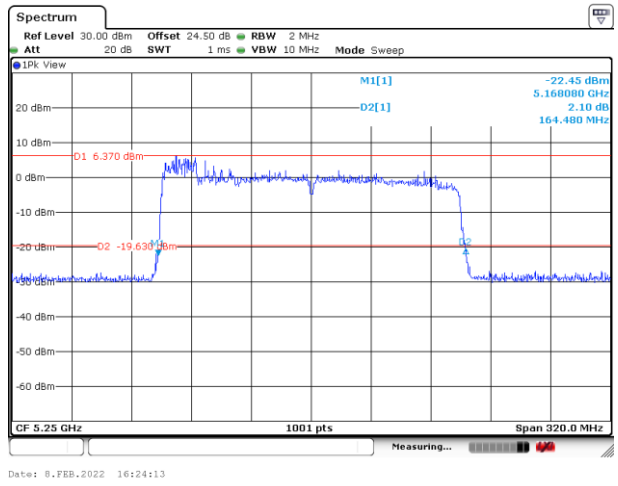
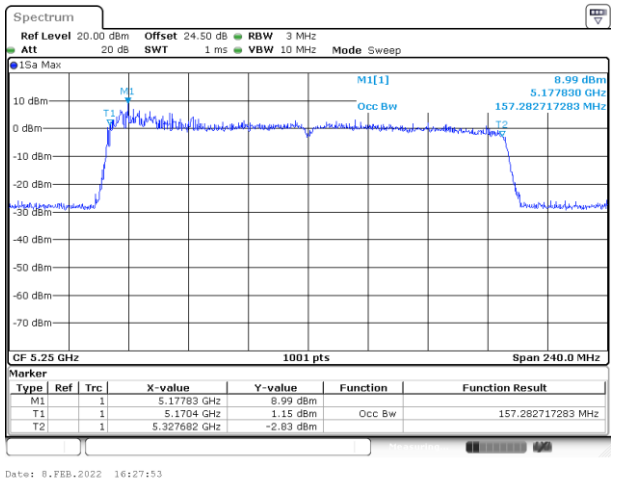
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE160>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

<TXBF Modes>

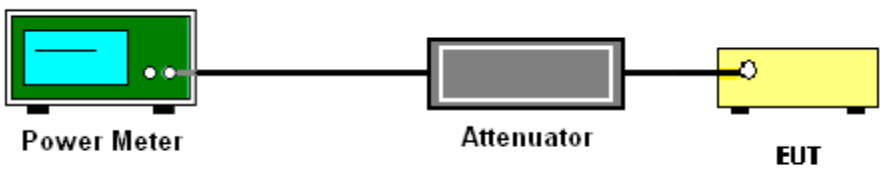
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

<CDD Modes>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

FCC Band I MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	36	5180	15.60	15.70	18.66	24.00		3.30		Pass
11a	6Mbps	2	44	5220	18.50	18.20	**21.36**	24.00		3.30		Pass
11a	6Mbps	2	48	5240	18.30	18.00	21.16	24.00		3.30		Pass
HT20	MCS0	2	36	5180	17.00	16.80	19.91	24.00		3.30		Pass
HT20	MCS0	2	44	5220	16.30	16.50	19.41	24.00		3.30		Pass
HT20	MCS0	2	48	5240	18.10	17.80	20.96	24.00		3.30		Pass
HT40	MCS0	2	38	5190	13.60	13.10	16.37	24.00		3.30		Pass
HT40	MCS0	2	46	5230	15.40	15.10	18.26	24.00		3.30		Pass
VHT20	MCS0	2	36	5180	17.10	16.90	20.01	24.00		3.30		Pass
VHT20	MCS0	2	44	5220	16.40	16.60	19.51	24.00		3.30		Pass
VHT20	MCS0	2	48	5240	18.20	17.90	21.06	24.00		3.30		Pass
VHT40	MCS0	2	38	5190	13.70	13.20	16.47	24.00		3.30		Pass
VHT40	MCS0	2	46	5230	15.50	15.20	18.36	24.00		3.30		Pass
VHT80	MCS0	2	42	5210	13.30	12.90	16.11	24.00		3.30		Pass
VHT160	MCS0	2	50	5250	12.80	12.30	15.57	24.00		3.30		Pass

FCC Band II MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
11a	6Mbps	2	52	5260	18.00	17.90	**20.96**	23.98		3.40		30	Pass
11a	6Mbps	2	60	5300	15.70	16.10	18.91	23.94		3.40		30	Pass
11a	6Mbps	2	64	5320	15.80	15.90	18.86	23.91		3.40		30	Pass
HT20	MCS0	2	52	5260	17.60	17.50	20.56	23.98		3.40		30	Pass
HT20	MCS0	2	60	5300	15.40	15.90	18.67	23.98		3.40		30	Pass
HT20	MCS0	2	64	5320	15.70	15.70	18.71	23.98		3.40		30	Pass
HT40	MCS0	2	54	5270	15.40	15.90	18.67	23.98		3.40		30	Pass
HT40	MCS0	2	62	5310	13.40	13.50	16.46	23.98		3.40		30	Pass
VHT20	MCS0	2	52	5260	17.70	17.60	20.66	23.98		3.40		30	Pass
VHT20	MCS0	2	60	5300	15.50	16.00	18.77	23.98		3.40		30	Pass
VHT20	MCS0	2	64	5320	15.80	15.80	18.81	23.98		3.40		30	Pass
VHT40	MCS0	2	54	5270	15.50	16.00	18.77	23.98		3.40		30	Pass
VHT40	MCS0	2	62	5310	13.50	13.60	16.56	23.98		3.40		30	Pass
VHT80	MCS0	2	58	5290	12.50	12.40	15.46	23.98		3.40		30	Pass
VHT160	MCS0	2	50	5250	12.80	12.30	15.57	23.98		3.40		30	Pass

FCC Band III MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
11a	6Mbps	2	100	5500	17.10	17.50	20.31	23.98		3.50		30	Pass
11a	6Mbps	2	116	5580	18.00	17.60	20.81	23.98		3.50		30	Pass
11a	6Mbps	2	140	5700	16.10	16.30	19.21	23.93		3.50		30	Pass
HT20	MCS0	2	100	5500	13.20	13.70	16.47	23.98		3.50		30	Pass
HT20	MCS0	2	116	5580	17.70	17.80	20.76	23.98		3.50		30	Pass
HT20	MCS0	2	140	5700	15.40	15.40	18.41	23.98		3.50		30	Pass
HT40	MCS0	2	102	5510	14.80	14.50	17.66	23.98		3.50		30	Pass
HT40	MCS0	2	110	5550	15.10	15.20	18.16	23.98		3.50		30	Pass
HT40	MCS0	2	134	5670	13.90	14.20	17.06	23.98		3.50		30	Pass
VHT20	MCS0	2	100	5500	13.30	13.80	16.57	23.98		3.50		30	Pass
VHT20	MCS0	2	116	5580	17.80	17.90	20.86	23.98		3.50		30	Pass
VHT20	MCS0	2	140	5700	15.50	15.50	18.51	23.98		3.50		30	Pass
VHT40	MCS0	2	102	5510	14.90	14.60	17.76	23.98		3.50		30	Pass
VHT40	MCS0	2	110	5550	15.20	15.30	18.26	23.98		3.50		30	Pass
VHT40	MCS0	2	134	5670	14.00	14.30	17.16	23.98		3.50		30	Pass
VHT80	MCS0	2	106	5530	12.50	13.10	15.82	23.98		3.50		30	Pass
VHT80	MCS0	2	122	5610	13.00	13.10	16.06	23.98		3.50		30	Pass
VHT160	MCS0	2	114	5570	14.00	13.60	16.81	23.98		3.50		30	Pass

FCC Band III straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
11a	6Mbps	2	144	5720	17.90	18.00	**20.96**	23.49		3.50		30	Pass
HT20	MCS0	2	144	5720	17.70	17.80	20.76	23.98		3.50		30	Pass
HT40	MCS0	2	142	5710	16.60	17.10	19.87	23.98		3.50		30	Pass
VHT20	MCS0	2	144	5720	17.80	17.90	20.86	23.98		3.50		30	Pass
VHT40	MCS0	2	142	5710	16.70	17.20	19.97	23.98		3.50		30	Pass
VHT80	MCS0	2	138	5690	15.20	15.80	18.52	23.98		3.50		30	Pass

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full	17.20	17.00	20.11	24.00		3.30		Pass
HE20	MCS0	2	36	5180	26/0	8.10	7.50	10.82	24.00		3.30		Pass
HE20	MCS0	2	36	5180	52/37	10.80	10.60	13.71	24.00		3.30		Pass
HE20	MCS0	2	36	5180	106/53	13.70	13.40	16.56	24.00		3.30		Pass
HE20	MCS0	2	44	5220	Full	17.60	17.50	20.56	24.00		3.30		Pass
HE20	MCS0	2	44	5220	26/4	8.80	9.00	11.91	24.00		3.30		Pass
HE20	MCS0	2	44	5220	52/39	10.60	10.50	13.56	24.00		3.30		Pass
HE20	MCS0	2	44	5220	106/53	13.60	13.40	16.51	24.00		3.30		Pass
HE20	MCS0	2	48	5240	Full	18.30	18.00	**21.16**	24.00		3.30		Pass
HE20	MCS0	2	48	5240	26/8	8.30	9.10	11.73	24.00		3.30		Pass
HE20	MCS0	2	48	5240	52/40	11.30	12.00	14.67	24.00		3.30		Pass
HE20	MCS0	2	48	5240	106/54	14.40	14.80	17.61	24.00		3.30		Pass
HE40	MCS0	2	38	5190	Full	13.80	13.30	16.57	24.00		3.30		Pass
HE40	MCS0	2	38	5190	242/61	10.60	10.60	13.61	24.00		3.30		Pass
HE40	MCS0	2	46	5230	Full	15.60	15.30	18.46	24.00		3.30		Pass
HE40	MCS0	2	46	5230	242/62	13.90	13.50	16.71	24.00		3.30		Pass
HE80	MCS0	2	42	5210	Full	13.40	13.00	16.21	24.00		3.30		Pass
HE80	MCS0	2	42	5210	484/65	10.50	10.50	13.51	24.00		3.30		Pass
HE160	MCS0	2	50	5250	Full	12.90	12.40	**15.67**	24.00		3.30		Pass
HE160	MCS0	2	50	5250	996/67	10.00	9.80	12.91	24.00		3.30		Pass
HE160	MCS0	2	50	5250	996/S67	10.50	10.60	13.56	24.00		3.30		Pass

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	52	5260	Full	17.80	17.70	**20.76**	23.98		3.40		30	Pass
HE20	MCS0	2	52	5260	26/0	8.30	8.70	11.51	23.98		3.40		30	Pass
HE20	MCS0	2	52	5260	52/37	11.30	11.60	14.46	23.98		3.40		30	Pass
HE20	MCS0	2	52	5260	106/53	14.00	14.40	17.21	23.98		3.40		30	Pass
HE20	MCS0	2	60	5300	Full	17.30	17.50	20.41	23.98		3.40		30	Pass
HE20	MCS0	2	60	5300	26/4	8.60	9.20	11.92	23.98		3.40		30	Pass
HE20	MCS0	2	60	5300	52/39	10.30	10.70	13.51	23.98		3.40		30	Pass
HE20	MCS0	2	60	5300	106/54	13.80	14.00	16.91	23.98		3.40		30	Pass
HE20	MCS0	2	64	5320	Full	15.90	15.90	18.91	23.98		3.40		30	Pass
HE20	MCS0	2	64	5320	26/8	6.20	6.60	9.41	23.98		3.40		30	Pass
HE20	MCS0	2	64	5320	52/40	9.20	9.60	12.41	23.98		3.40		30	Pass
HE20	MCS0	2	64	5320	106/54	12.00	12.10	15.06	23.98		3.40		30	Pass
HE40	MCS0	2	54	5270	Full	15.60	16.10	18.87	23.98		3.40		30	Pass
HE40	MCS0	2	54	5270	242/61	12.90	13.50	16.22	23.98		3.40		30	Pass
HE40	MCS0	2	62	5310	Full	13.60	13.70	16.66	23.98		3.40		30	Pass
HE40	MCS0	2	62	5310	242/62	10.50	10.90	13.71	23.98		3.40		30	Pass
HE80	MCS0	2	58	5290	Full	12.60	12.50	15.56	23.98		3.40		30	Pass
HE80	MCS0	2	58	5290	484/66	9.60	9.90	12.76	23.98		3.40		30	Pass
HE160	MCS0	2	50	5250	Full	12.90	12.40	**15.67**	23.98		3.40		30	Pass
HE160	MCS0	2	50	5250	996/67	10.00	9.80	12.91	23.98		3.40		30	Pass
HE160	MCS0	2	50	5250	996/S67	10.50	10.60	13.56	23.98		3.40		30	Pass

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	100	5500	Full	13.40	13.90	16.67	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	26/0	4.30	3.80	7.07	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	52/37	7.10	8.00	10.58	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	106/53	10.10	11.00	13.58	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	Full	17.90	18.00	**20.96**	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	26/4	10.00	10.60	13.32	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	52/38	11.90	12.00	14.96	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	106/53	14.70	14.80	17.76	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	Full	15.60	15.60	18.61	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	26/8	5.90	5.80	8.86	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	52/40	8.50	8.80	11.66	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	106/54	12.00	11.70	14.86	23.98		3.50		30	Pass
HE40	MCS0	2	102	5510	Full	15.00	14.70	17.86	23.98		3.50		30	Pass
HE40	MCS0	2	102	5510	242/61	11.60	11.50	14.56	23.98		3.50		30	Pass
HE40	MCS0	2	110	5550	Full	15.30	15.40	18.36	23.98		3.50		30	Pass
HE40	MCS0	2	110	5550	242/61	12.90	13.30	16.11	23.98		3.50		30	Pass
HE40	MCS0	2	134	5670	Full	14.10	14.40	17.26	23.98		3.50		30	Pass
HE40	MCS0	2	134	5670	242/62	11.10	11.90	14.53	23.98		3.50		30	Pass
HE80	MCS0	2	106	5530	Full	12.60	13.20	15.92	23.98		3.50		30	Pass
HE80	MCS0	2	106	5530	484/65	9.90	10.70	13.33	23.98		3.50		30	Pass
HE80	MCS0	2	122	5610	Full	13.10	13.20	16.16	23.98		3.50		30	Pass
HE80	MCS0	2	122	5610	484/66	10.20	10.50	13.36	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	Full	14.10	13.70	16.91	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	996/67	11.60	10.90	14.27	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	996/S67	11.20	10.80	14.01	23.98		3.50		30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	144	5720	Full	17.90	18.00	**20.96**	23.78		3.50		30	Pass
HE20	MCS0	2	144	5720	26/8	8.80	9.40	12.12	23.78		3.50		30	Pass
HE20	MCS0	2	144	5720	52/40	11.50	11.90	14.71	23.78		3.50		30	Pass
HE20	MCS0	2	144	5720	106/54	14.80	15.30	18.07	23.78		3.50		30	Pass
HE40	MCS0	2	142	5710	Full	16.80	17.30	20.07	23.98		3.50		30	Pass
HE40	MCS0	2	142	5710	242/62	14.10	14.70	17.42	23.98		3.50		30	Pass
HE80	MCS0	2	138	5690	Full	15.30	15.90	18.62	23.98		3.50		30	Pass
HE80	MCS0	2	138	5690	484/66	12.60	13.10	15.87	23.98		3.50		30	Pass

<TXBF Modes>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full	12.70	12.90	15.81	24.00		5.82		Pass
HE20	MCS0	2	44	5220	Full	15.70	16.00	18.86	24.00		5.82		Pass
HE20	MCS0	2	48	5240	Full	17.60	17.80	**20.71**	24.00		5.82		Pass
HE40	MCS0	2	38	5190	Full	11.90	12.40	15.17	24.00		5.82		Pass
HE40	MCS0	2	46	5230	Full	14.70	15.00	**17.86**	24.00		5.82		Pass
HE80	MCS0	2	42	5210	Full	11.90	12.50	**15.22**	24.00		5.82		Pass
HE160	MCS0	2	50	5250	Full	9.00	9.40	**12.21**	24.00		5.82		Pass

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	52	5260	Full	17.50	17.90	**20.71**	23.98		5.92		30	Pass
HE20	MCS0	2	60	5300	Full	15.50	16.00	18.77	23.98		5.92		30	Pass
HE20	MCS0	2	64	5320	Full	12.00	12.20	15.11	23.98		5.92		30	Pass
HE40	MCS0	2	54	5270	Full	15.40	16.00	**18.72**	23.98		5.92		30	Pass
HE40	MCS0	2	62	5310	Full	13.10	13.30	16.21	23.98		5.92		30	Pass
HE80	MCS0	2	58	5290	Full	12.70	13.20	**15.97**	23.98		5.92		30	Pass
HE160	MCS0	2	50	5250	Full	9.00	9.40	**12.21**	23.98		5.92		30	Pass

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	100	5500	Full	13.40	13.40	16.41	23.57		6.41		30	Pass
HE20	MCS0	2	116	5580	Full	17.90	17.50	20.71	23.57		6.41		30	Pass
HE20	MCS0	2	140	5700	Full	11.90	12.10	15.01	23.57		6.41		30	Pass
HE40	MCS0	2	102	5510	Full	11.40	11.60	14.51	23.57		6.41		30	Pass
HE40	MCS0	2	110	5550	Full	15.20	15.00	18.11	23.57		6.41		30	Pass
HE40	MCS0	2	134	5670	Full	13.80	13.90	16.86	23.57		6.41		30	Pass
HE80	MCS0	2	106	5530	Full	12.30	12.20	15.26	23.57		6.41		30	Pass
HE80	MCS0	2	122	5610	Full	13.10	12.90	16.01	23.57		6.41		30	Pass
HE160	MCS0	2	114	5570	Full	10.50	9.90	**13.22**	23.57		6.41		30	Pass

Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8		
HE20	MCS0	2	144	5720	Full	17.80	17.70	**20.76**	22.79		6.41		30	Pass
HE40	MCS0	2	142	5710	Full	16.50	16.40	**19.46**	23.57		6.41		30	Pass
HE80	MCS0	2	138	5690	Full	15.00	15.30	**18.16**	23.57		6.41		30	Pass

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

<CDD Modes>

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Modes>

 # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is 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.
- Detector = power averaging (rms).
- Trace mode = max hold.

Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

3.3.5 Test Result of Power Spectral Density

<CDD Modes>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	36	5180	0.03	0.03			6.72	11.00		5.82		Pass
11a	6Mbps	2	44	5220	0.03	0.03			**9.44**	11.00		5.82		Pass
11a	6Mbps	2	48	5240	0.03	0.03			9.37	11.00		5.82		Pass

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	52	5260	0.03	0.03			**9.39**	11.00		5.92		Pass
11a	6Mbps	2	60	5300	0.03	0.03			6.94	11.00		5.92		Pass
11a	6Mbps	2	64	5320	0.03	0.03			6.04	11.00		5.92		Pass

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	100	5500	0.03	0.03			8.69	10.59		6.41		Pass
11a	6Mbps	2	116	5580	0.03	0.03			8.98	10.59		6.41		Pass
11a	6Mbps	2	140	5700	0.03	0.03			7.36	10.59		6.41		Pass

Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
11a	6Mbps	2	144	5720	0.03	0.03			**9.19**	10.59		6.41		Pass

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full	0.00	0.00			7.09	11.00		5.82		Pass
HE20	MCS0	2	36	5180	26/0	0.00	0.00			7.03	11.00		5.82		Pass
HE20	MCS0	2	36	5180	52/37	0.00	0.00			7.00	11.00		5.82		Pass
HE20	MCS0	2	36	5180	106/53	0.00	0.00			6.92	11.00		5.82		Pass
HE20	MCS0	2	44	5220	Full	0.00	0.00			7.11	11.00		5.82		Pass
HE20	MCS0	2	44	5220	26/4	0.00	0.00			6.79	11.00		5.82		Pass
HE20	MCS0	2	44	5220	52/39	0.00	0.00			6.96	11.00		5.82		Pass
HE20	MCS0	2	44	5220	106/53	0.00	0.00			6.94	11.00		5.82		Pass
HE20	MCS0	2	48	5240	Full	0.00	0.00			**8.93**	11.00		5.82		Pass
HE20	MCS0	2	48	5240	26/8	0.00	0.00			8.81	11.00		5.82		Pass
HE20	MCS0	2	48	5240	52/40	0.00	0.00			8.85	11.00		5.82		Pass
HE20	MCS0	2	48	5240	106/54	0.00	0.00			8.86	11.00		5.82		Pass
HE40	MCS0	2	38	5190	Full	0.03	0.03			0.63	11.00		5.82		Pass
HE40	MCS0	2	38	5190	242/61	0.03	0.03			0.45	11.00		5.82		Pass
HE40	MCS0	2	46	5230	Full	0.03	0.03			3.02	11.00		5.82		Pass
HE40	MCS0	2	46	5230	242/62	0.03	0.03			2.80	11.00		5.82		Pass
HE80	MCS0	2	42	5210	Full	0.07	0.07			-2.62	11.00		5.82		Pass
HE80	MCS0	2	42	5210	484/65	0.07	0.07			-2.69	11.00		5.82		Pass
HE160	MCS0	2	50	5250	Full	0.14	0.14			Pass	11.00		5.82		Pass
HE160	MCS0	2	50	5250	996/67	0.14	0.14			-6.34	11.00		5.82		Pass
HE160	MCS0	2	50	5250	996/S67	0.14	0.14			**-6.41**	11.00		5.82		Pass

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	52	5260	Full	0.00	0.00			**8.31**	11.00		5.92		Pass
HE20	MCS0	2	52	5260	26/0	0.00	0.00			8.08	11.00		5.92		Pass
HE20	MCS0	2	52	5260	52/37	0.00	0.00			8.22	11.00		5.92		Pass
HE20	MCS0	2	52	5260	106/53	0.00	0.00			8.17	11.00		5.92		Pass
HE20	MCS0	2	60	5300	Full	0.00	0.00			6.21	11.00		5.92		Pass
HE20	MCS0	2	60	5300	26/4	0.00	0.00			6.18	11.00		5.92		Pass
HE20	MCS0	2	60	5300	52/39	0.00	0.00			5.82	11.00		5.92		Pass
HE20	MCS0	2	60	5300	106/54	0.00	0.00			5.78	11.00		5.92		Pass
HE20	MCS0	2	64	5320	Full	0.00	0.00			5.95	11.00		5.92		Pass
HE20	MCS0	2	64	5320	26/8	0.00	0.00			5.83	11.00		5.92		Pass
HE20	MCS0	2	64	5320	52/40	0.00	0.00			5.84	11.00		5.92		Pass
HE20	MCS0	2	64	5320	106/54	0.00	0.00			5.46	11.00		5.92		Pass
HE40	MCS0	2	54	5270	Full	0.03	0.03			3.59	11.00		5.92		Pass
HE40	MCS0	2	54	5270	242/61	0.03	0.03			3.57	11.00		5.92		Pass
HE40	MCS0	2	62	5310	Full	0.03	0.03			1.24	11.00		5.92		Pass
HE40	MCS0	2	62	5310	242/62	0.03	0.03			1.10	11.00		5.92		Pass
HE80	MCS0	2	58	5290	Full	0.07	0.07			-3.15	11.00		5.92		Pass
HE80	MCS0	2	58	5290	484/66	0.07	0.07			-3.18	11.00		5.92		Pass
HE160	MCS0	2	50	5250	Full	0.14	0.14			**-5.96**	11.00		5.92		Pass
HE160	MCS0	2	50	5250	996/67	0.14	0.14			**-6.34**	11.00		5.92		Pass
HE160	MCS0	2	50	5250	996/S67	0.14	0.14			-6.41	11.00		5.92		Pass

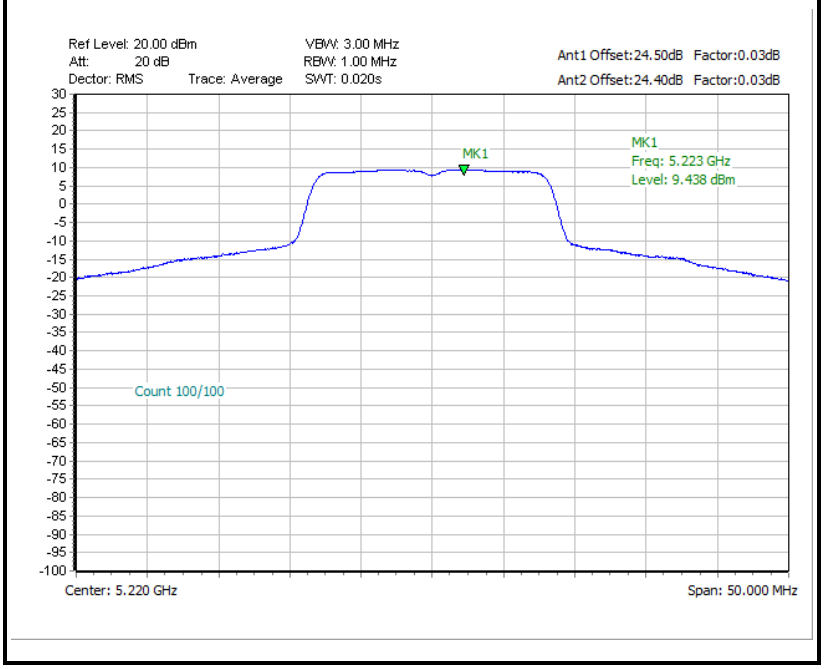
Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	100	5500	Full	0.00	0.00			4.39	10.59		6.41		Pass
HE20	MCS0	2	100	5500	26/0	0.00	0.00			3.72	10.59		6.41		Pass
HE20	MCS0	2	100	5500	52/37	0.00	0.00			4.24	10.59		6.41		Pass
HE20	MCS0	2	100	5500	106/53	0.00	0.00			4.29	10.59		6.41		Pass
HE20	MCS0	2	116	5580	Full	0.00	0.00			8.99	10.59		6.41		Pass
HE20	MCS0	2	116	5580	26/4	0.00	0.00			8.88	10.59		6.41		Pass
HE20	MCS0	2	116	5580	52/38	0.00	0.00			8.83	10.59		6.41		Pass
HE20	MCS0	2	116	5580	106/53	0.00	0.00			8.55	10.59		6.41		Pass
HE20	MCS0	2	140	5700	Full	0.00	0.00			5.51	10.59		6.41		Pass
HE20	MCS0	2	140	5700	26/8	0.00	0.00			5.20	10.59		6.41		Pass
HE20	MCS0	2	140	5700	52/40	0.00	0.00			5.24	10.59		6.41		Pass
HE20	MCS0	2	140	5700	106/54	0.00	0.00			5.42	10.59		6.41		Pass
HE40	MCS0	2	102	5510	Full	0.03	0.03			2.05	10.59		6.41		Pass
HE40	MCS0	2	102	5510	242/61	0.03	0.03			1.57	10.59		6.41		Pass
HE40	MCS0	2	110	5550	Full	0.03	0.03			3.40	10.59		6.41		Pass
HE40	MCS0	2	110	5550	242/61	0.03	0.03			3.36	10.59		6.41		Pass
HE40	MCS0	2	134	5670	Full	0.03	0.03			2.36	10.59		6.41		Pass
HE40	MCS0	2	134	5670	242/62	0.03	0.03			1.92	10.59		6.41		Pass
HE80	MCS0	2	106	5530	Full	0.07	0.07			-2.05	10.59		6.41		Pass
HE80	MCS0	2	106	5530	484/65	0.07	0.07			-2.38	10.59		6.41		Pass
HE80	MCS0	2	122	5610	Full	0.07	0.07			-1.71	10.59		6.41		Pass
HE80	MCS0	2	122	5610	484/66	0.07	0.07			-2.19	10.59		6.41		Pass
HE160	MCS0	2	114	5570	Full	0.14	0.14			-4.43	10.59		6.41		Pass
HE160	MCS0	2	114	5570	996/67	0.14	0.14			-4.88	10.59		6.41		Pass
HE160	MCS0	2	114	5570	996/S67	0.14	0.14			-4.81	10.59		6.41		Pass

Band III straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	144	5720	Full	0.00	0.00			9.09	10.59		6.41		Pass
HE20	MCS0	2	144	5720	26/8	0.03	0.03			8.81	10.59		6.41		Pass
HE20	MCS0	2	144	5720	52/40	0.03	0.03			8.53	10.59		6.41		Pass
HE20	MCS0	2	144	5720	106/54	0.03	0.03			8.91	10.59		6.41		Pass
HE40	MCS0	2	142	5710	Full	0.03	0.03			4.78	10.59		6.41		Pass
HE40	MCS0	2	142	5710	242/62	0.03	0.03			4.75	10.59		6.41		Pass
HE80	MCS0	2	138	5690	Full	0.07	0.07			0.46	10.59		6.41		Pass
HE80	MCS0	2	138	5690	484/66	0.07	0.07			0.24	10.59		6.41		Pass

<CDD Modes>

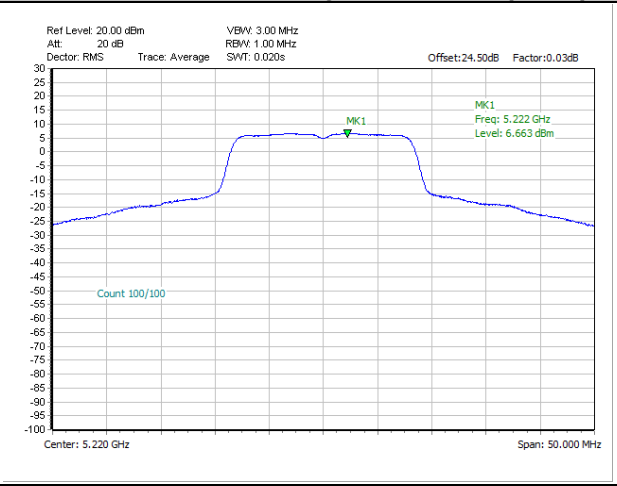
<802.11a>

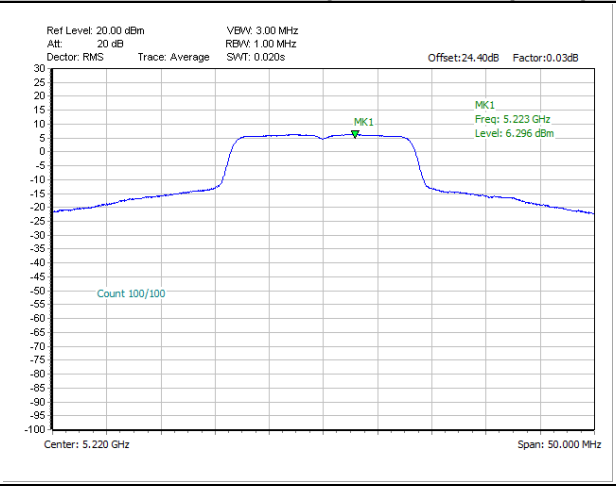
Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

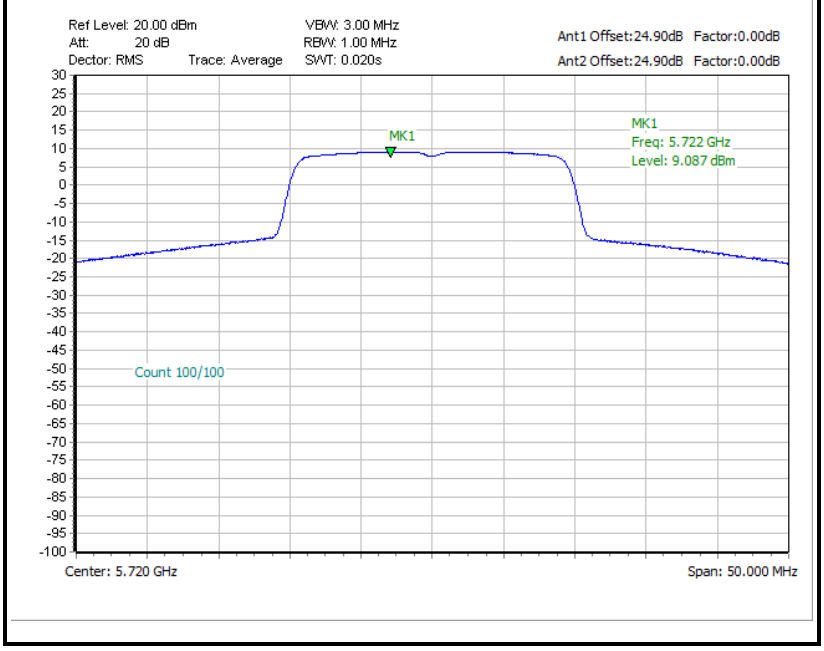
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)



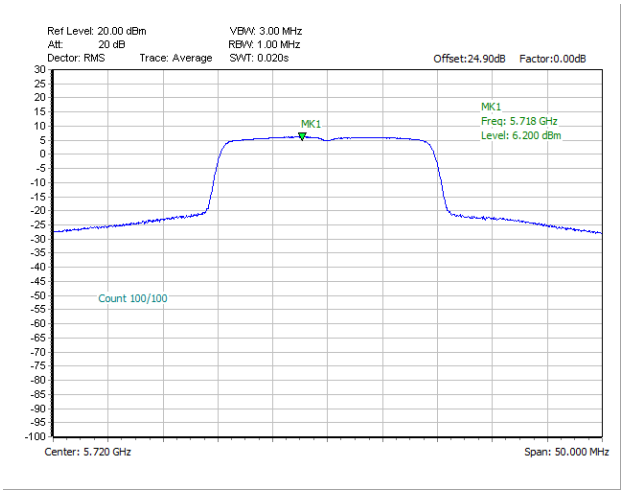
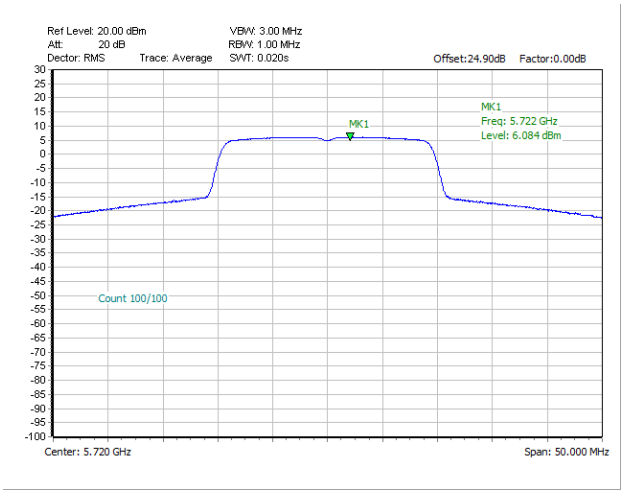


<802.11ax HE20>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

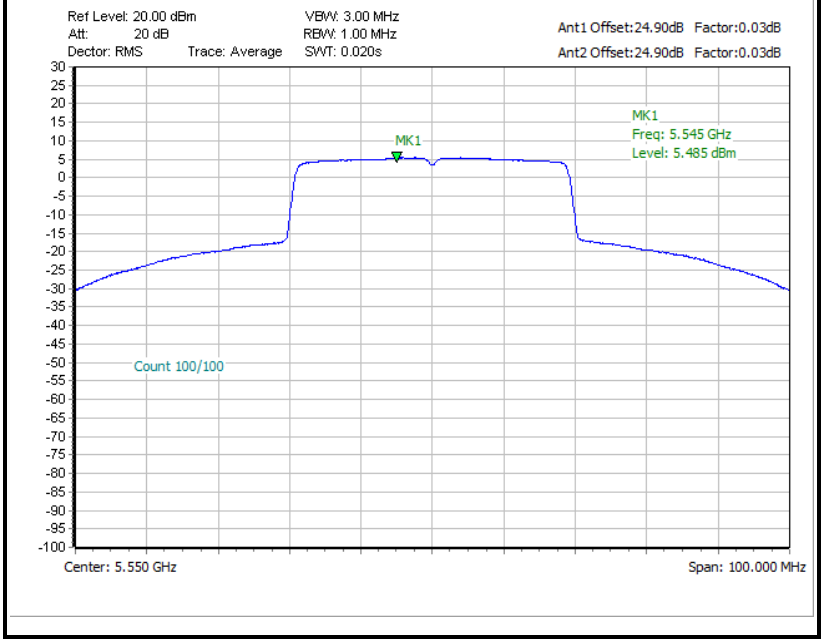


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

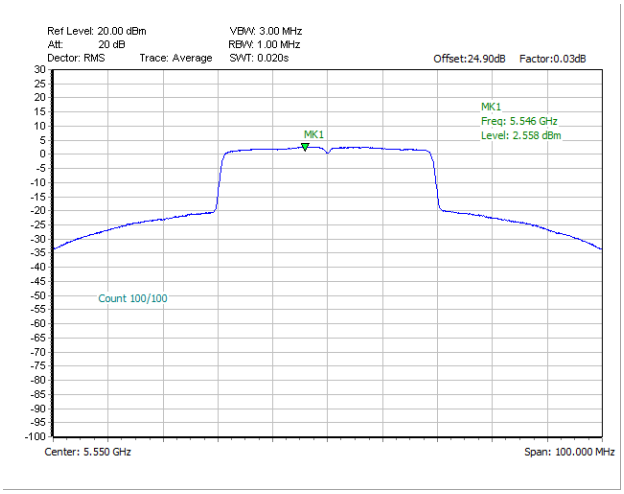
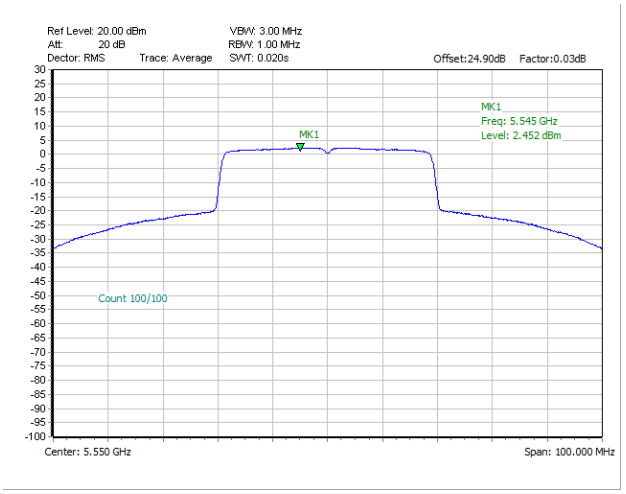
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

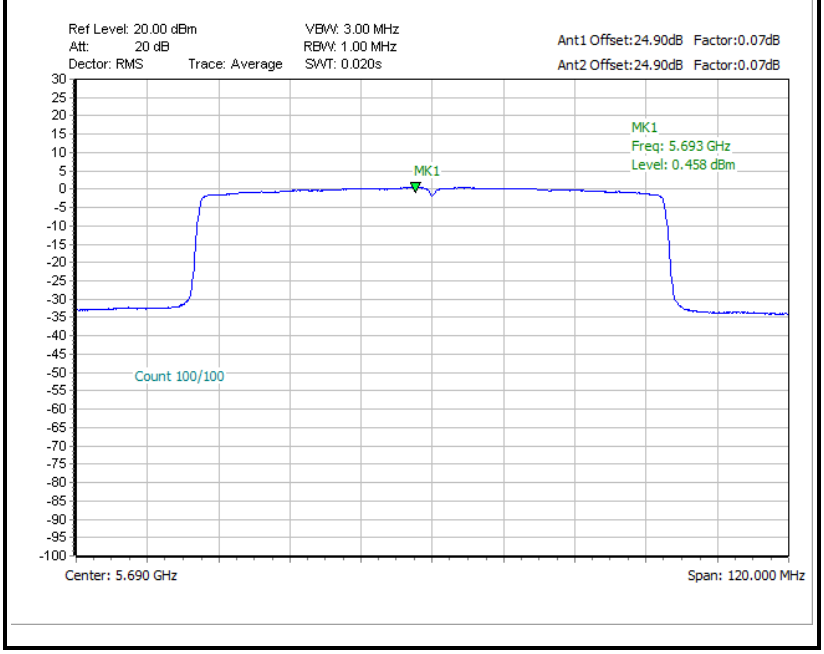


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

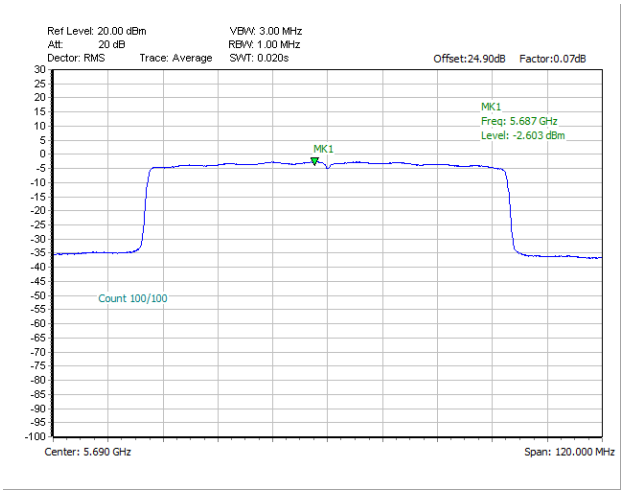
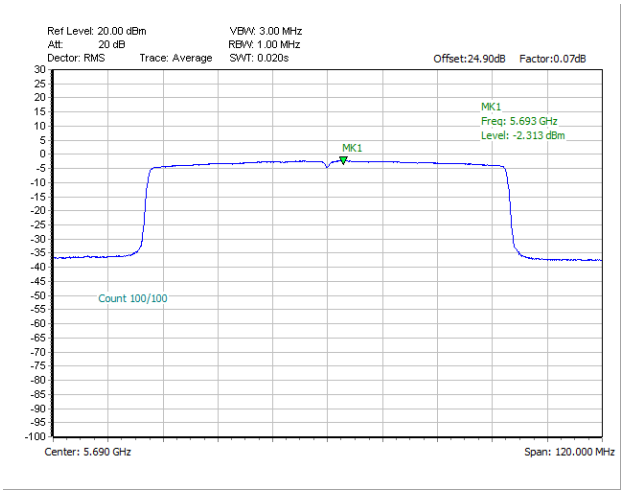
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

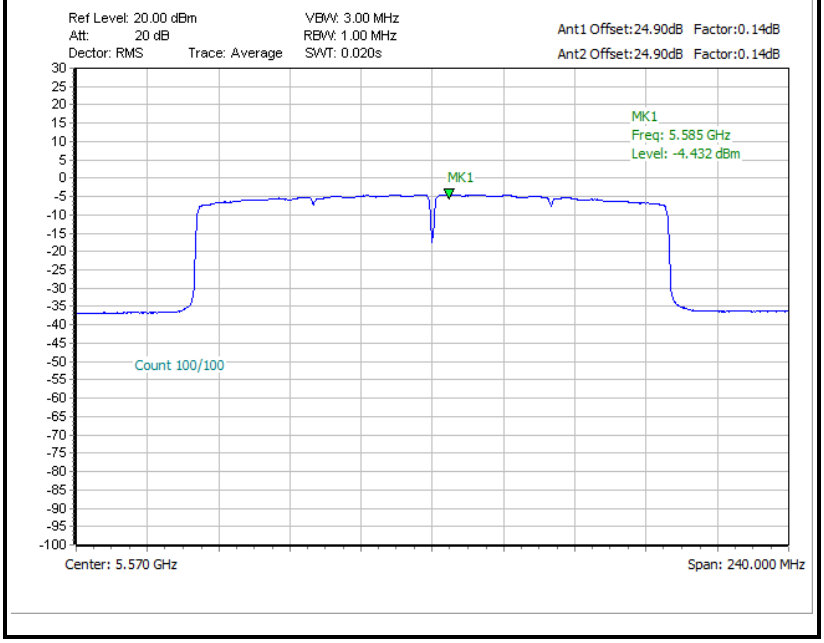


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

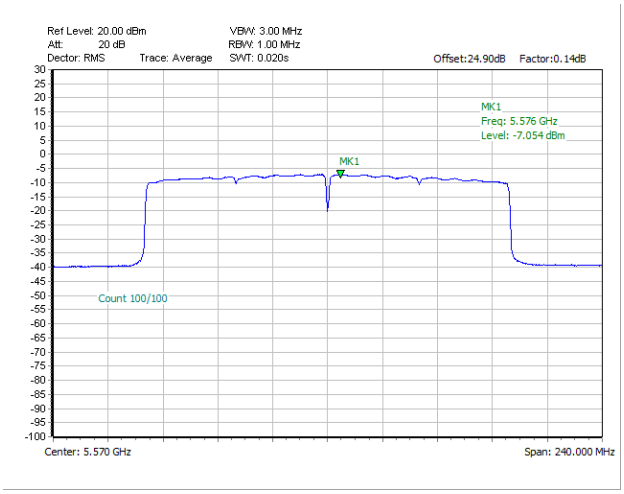
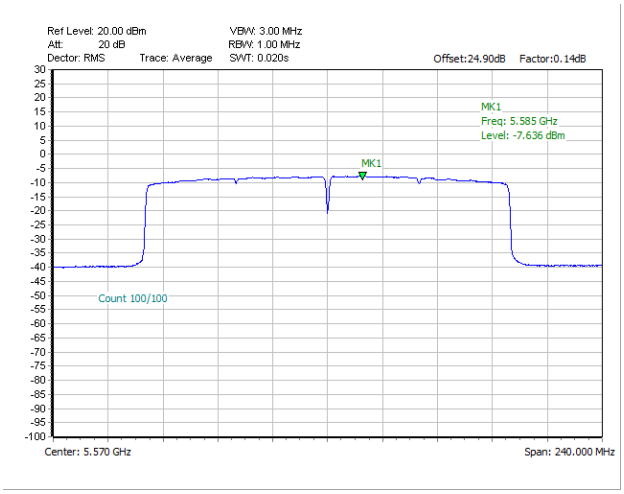
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE160>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

Note: Average Power Density (dB) = Measured value+ Duty Factor

<TXBF Modes>

Test Engineer :	Jacob Yu	Temperature :	17.7~22.5℃
		Relative Humidity :	45.1~61.9%

Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	36	5180	Full			4.22	11.00		5.82		Pass
HE20	MCS0	2	44	5220	Full			7.23	11.00		5.82		Pass
HE20	MCS0	2	48	5240	Full			**9.33**	11.00		5.82		Pass
HE40	MCS0	2	38	5190	Full			1.56	11.00		5.82		Pass
HE40	MCS0	2	46	5230	Full			3.12	11.00		5.82		Pass
HE80	MCS0	2	42	5210	Full			-2.60	11.00		5.82		Pass
HE160	MCS0	2	50	5250	Full			0.24	11.00		5.82		Pass

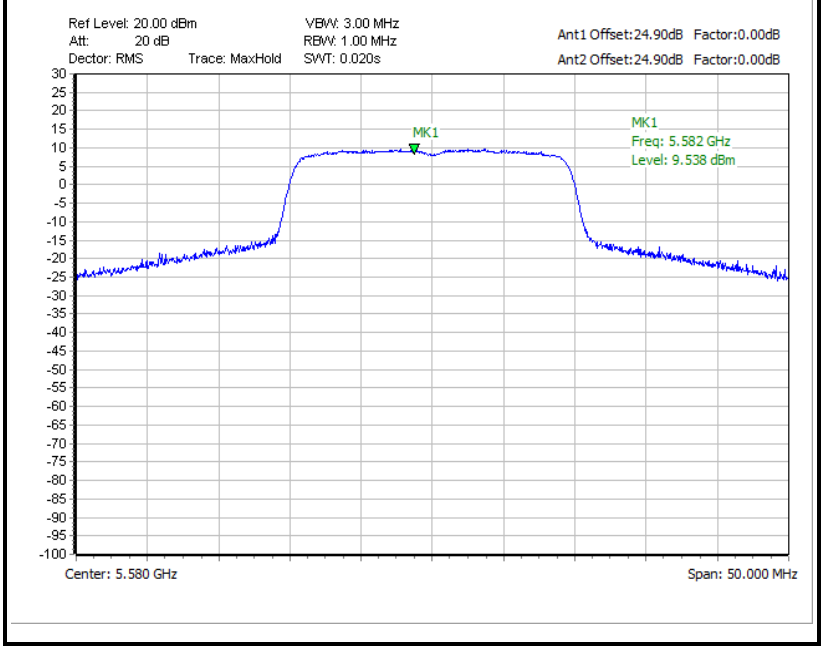
Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	52	5260	Full			**9.45**	11.00		5.92		Pass
HE20	MCS0	2	60	5300	Full			7.25	11.00		5.92		Pass
HE20	MCS0	2	64	5320	Full			3.38	11.00		5.92		Pass
HE40	MCS0	2	54	5270	Full			4.19	11.00		5.92		Pass
HE40	MCS0	2	62	5310	Full			1.20	11.00		5.92		Pass
HE80	MCS0	2	58	5290	Full			-1.84	11.00		5.92		Pass
HE160	MCS0	2	50	5250	Full			0.24	11.00		5.92		Pass

Band III MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	100	5500	Full			5.04	10.59		6.41		Pass
HE20	MCS0	2	116	5580	Full			**9.54**	10.59		6.41		Pass
HE20	MCS0	2	140	5700	Full			3.87	10.59		6.41		Pass
HE40	MCS0	2	102	5510	Full			-0.31	10.59		6.41		Pass
HE40	MCS0	2	110	5550	Full			3.18	10.59		6.41		Pass
HE40	MCS0	2	134	5670	Full			2.25	10.59		6.41		Pass
HE80	MCS0	2	106	5530	Full			-2.34	10.59		6.41		Pass
HE80	MCS0	2	122	5610	Full			-1.80	10.59		6.41		Pass
HE160	MCS0	2	114	5570	Full			0.80	10.59		6.41		Pass

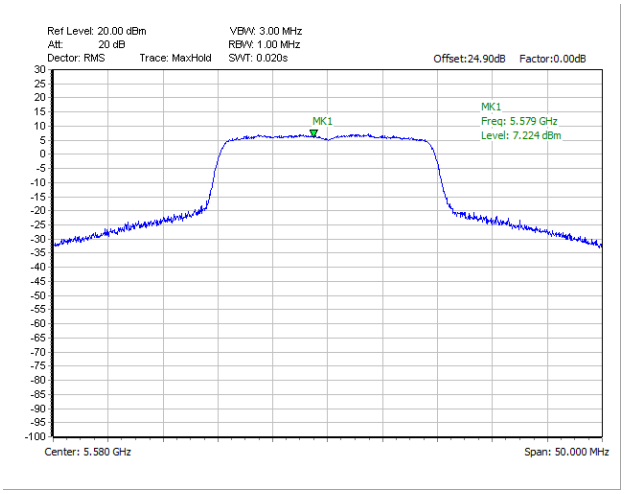
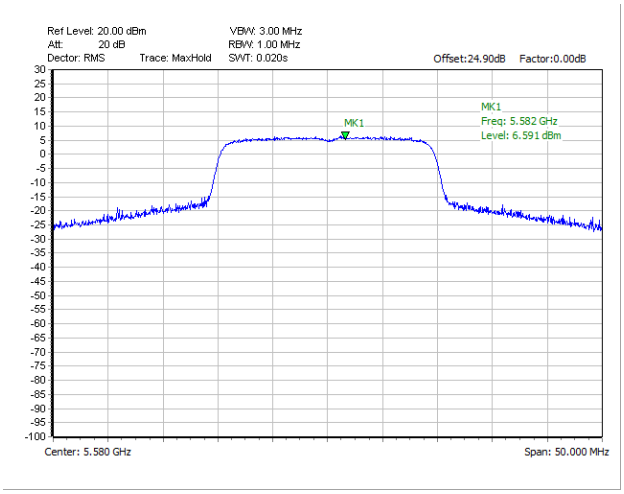
Band III straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 9	Ant 8	SUM	Ant 9	Ant 8	Ant 9	Ant 8	
HE20	MCS0	2	144	5720	Full			9.54	10.59		6.41		Pass
HE40	MCS0	2	142	5710	Full			4.58	10.59		6.41		Pass
HE80	MCS0	2	138	5690	Full			0.60	10.59		6.41		Pass

<802.11ax HE20>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

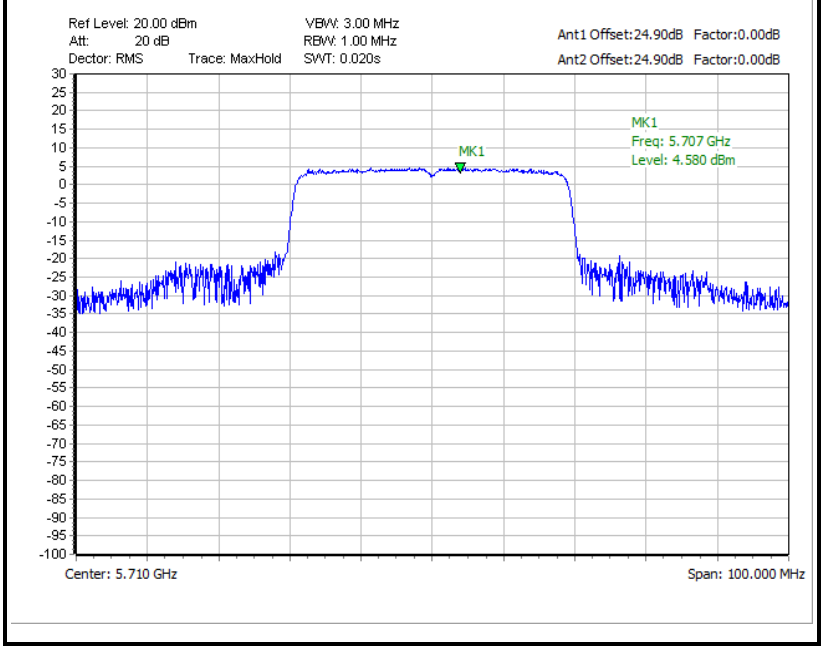


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

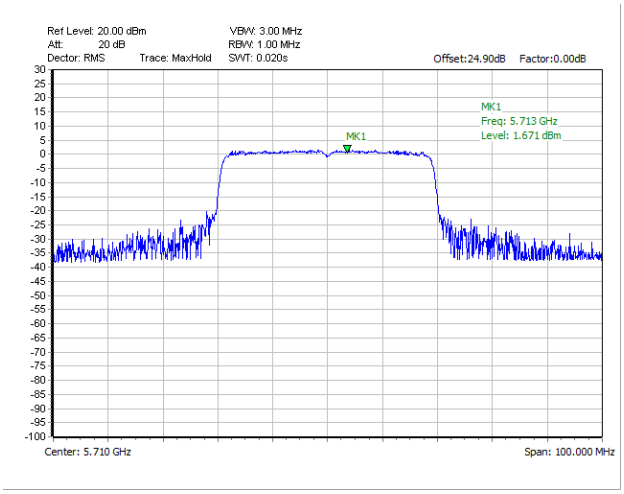
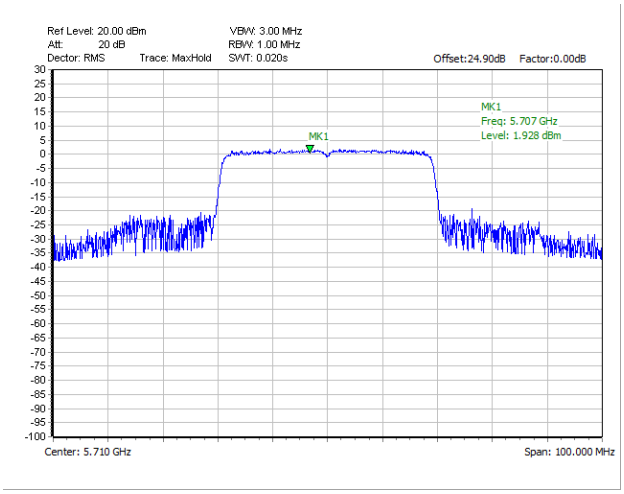
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

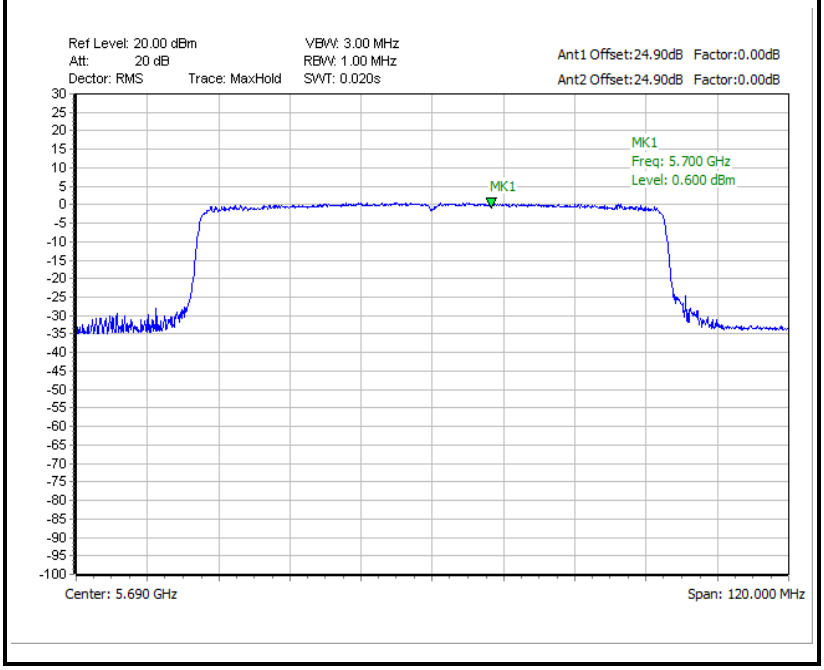


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

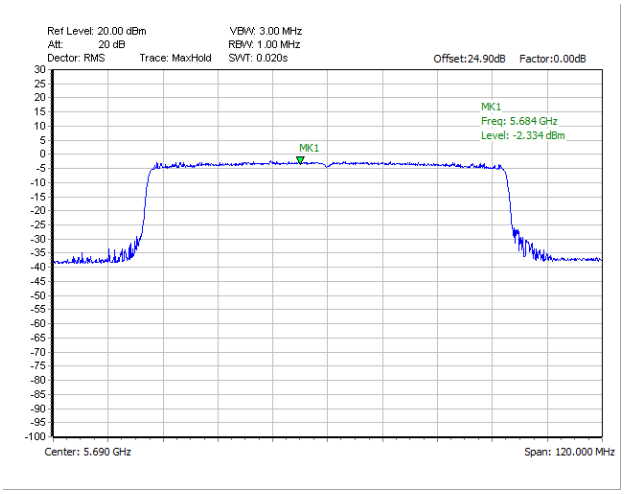
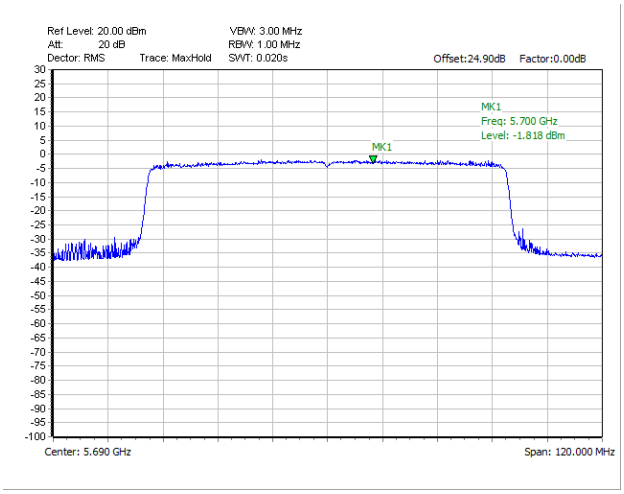
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>

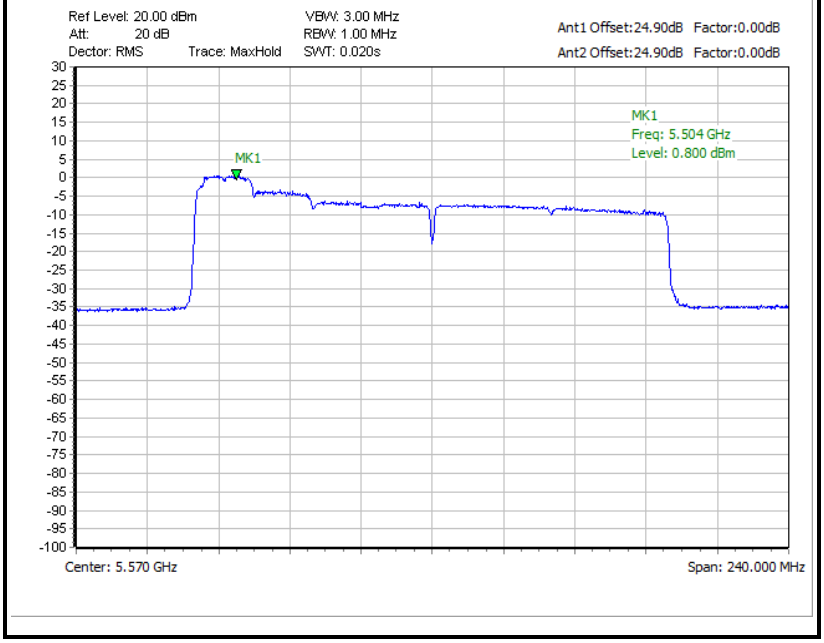


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

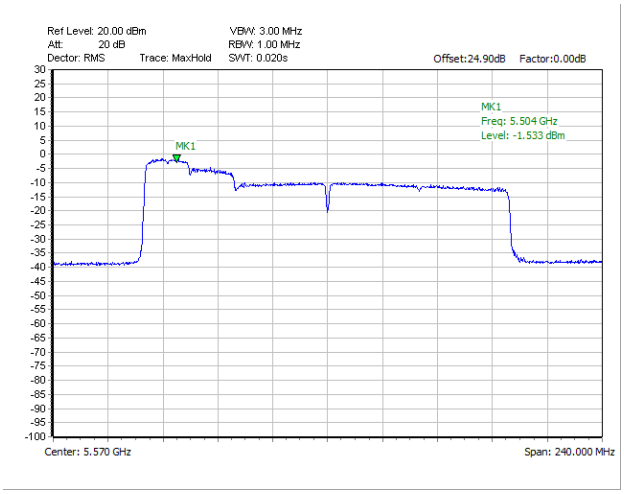
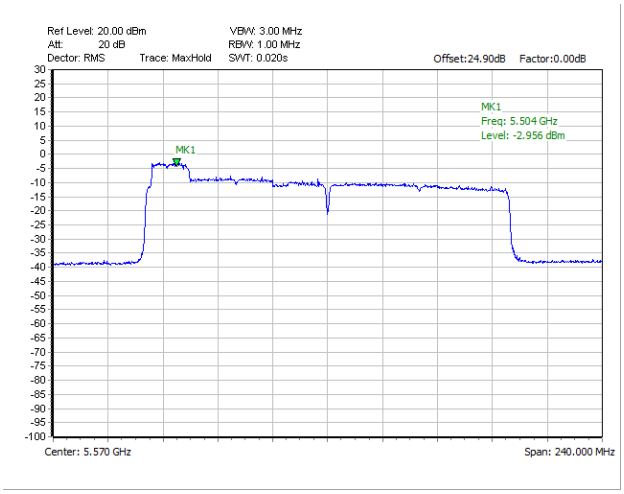
Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE160>

Maximum Power Density Plot (dBm/MHz)
MIMO <Ant. 9+8>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 9)	Maximum Power Density Plot Trace 2 (Ant 8)
	

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.
(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

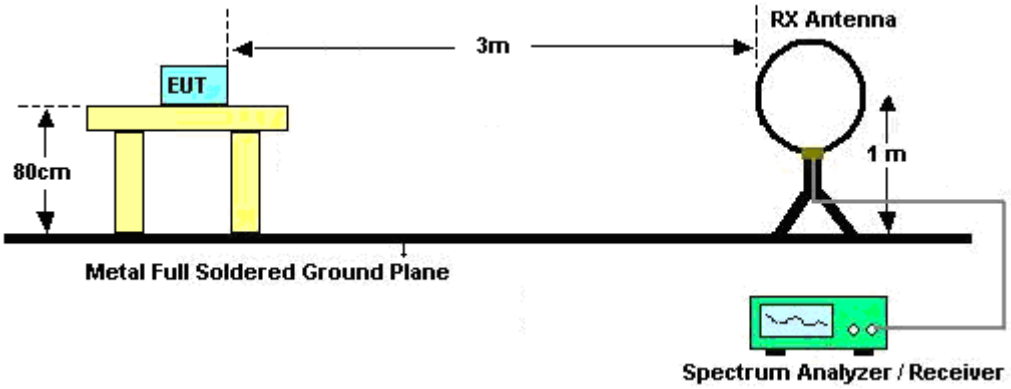
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is 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.

2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

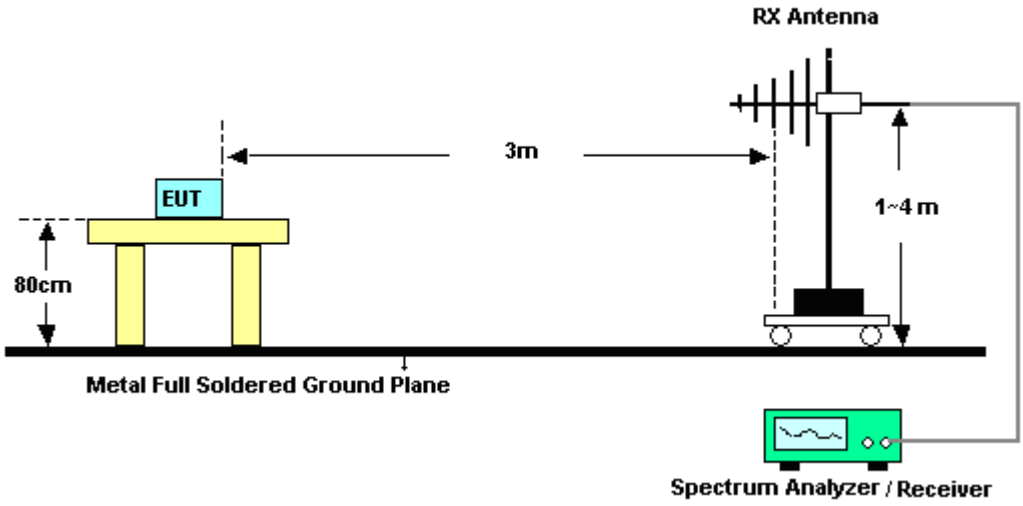
3.4.4 Test Setup

For radiated emissions below 30MHz

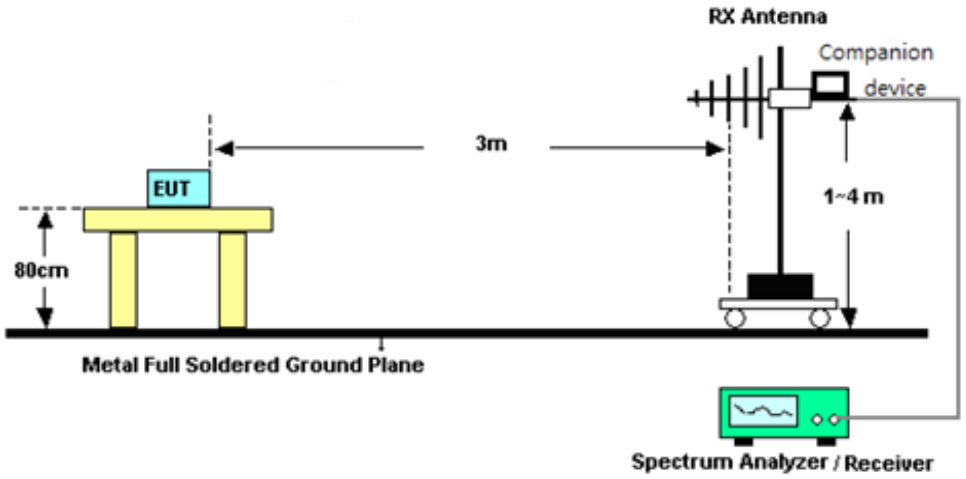


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

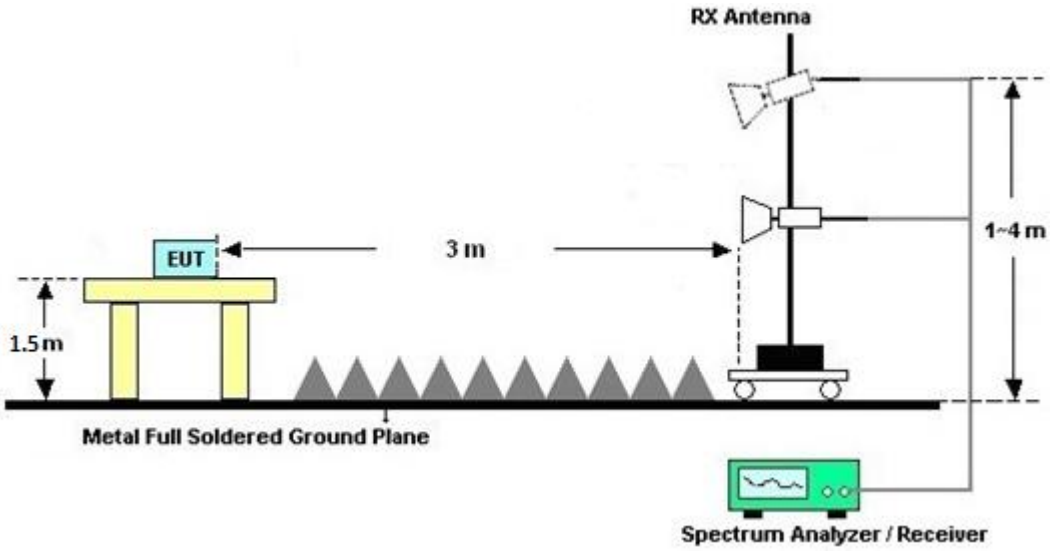


<TXBF Modes>

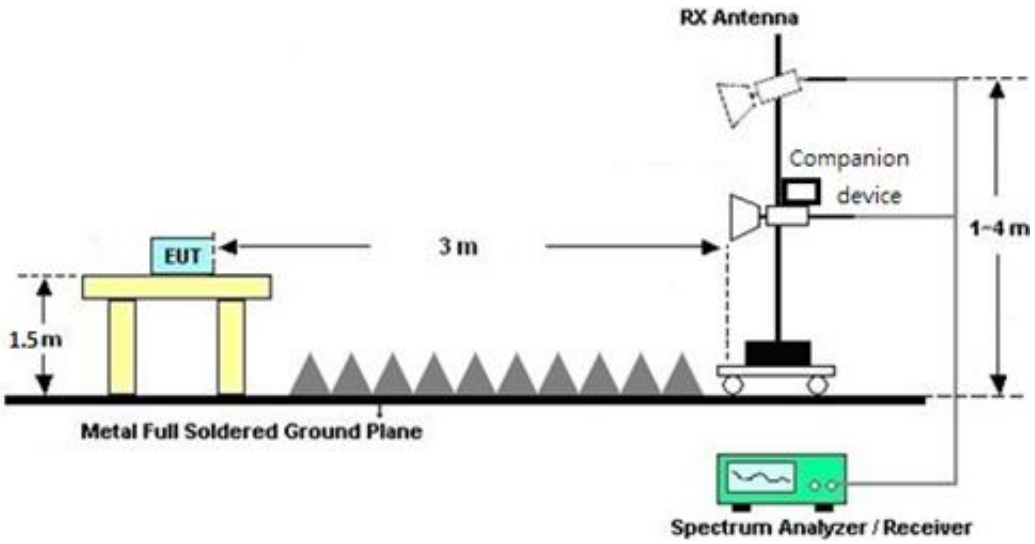


For radiated test from 1GHz to 18GHz

<CDD Mode>

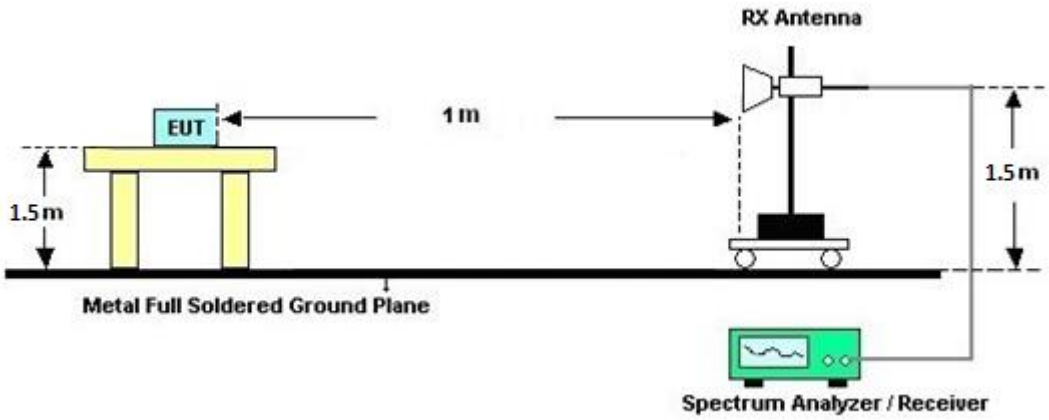


<TXBF Modes>

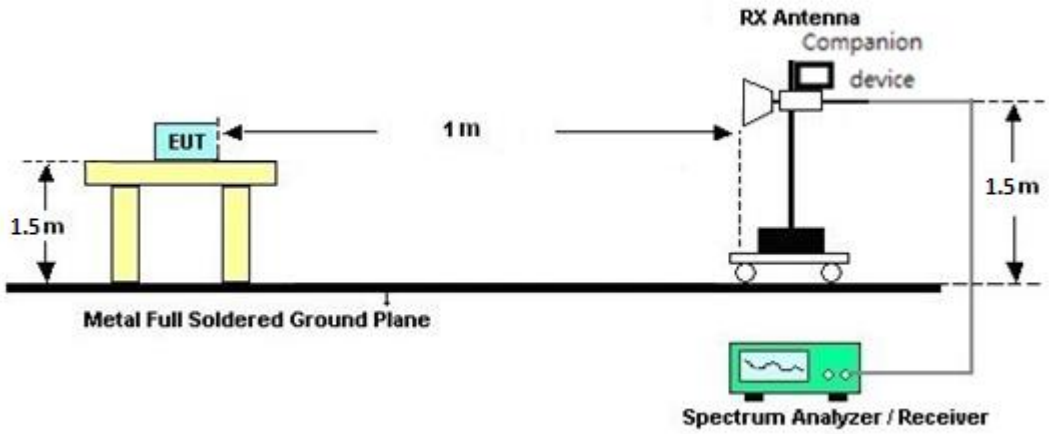


For radiated test above 18GHz

<CDD Mode>



<TXBF Modes>



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

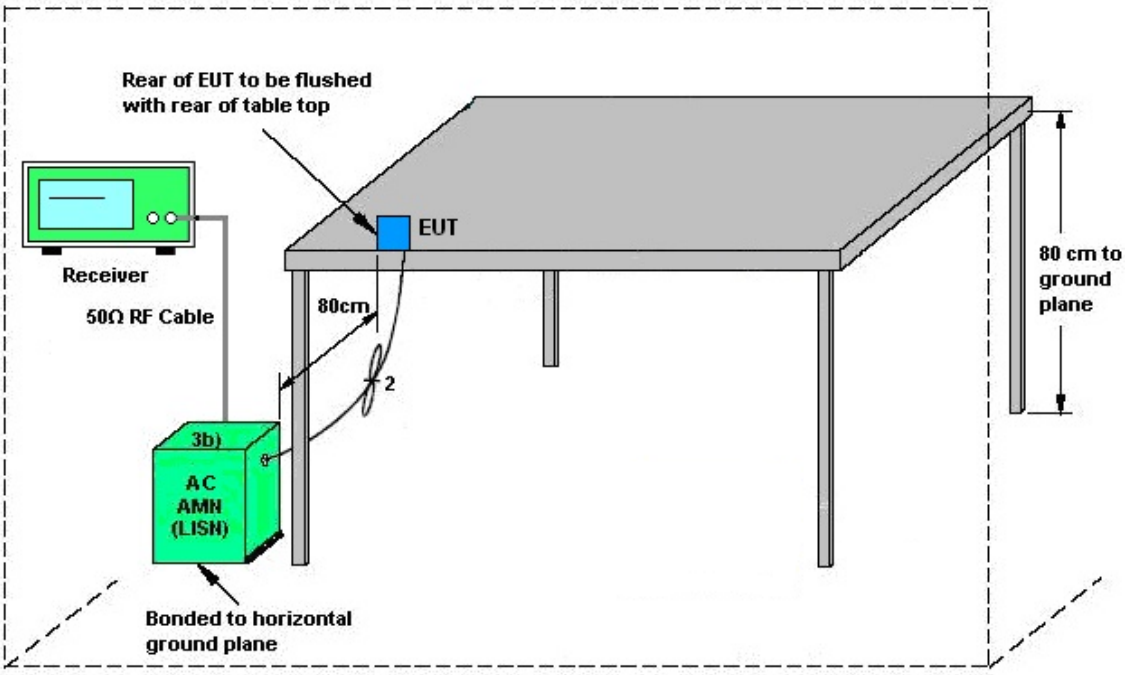
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.6 Antenna Requirements

3.6.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 9 (dBi)	Ant. 8 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.30	2.30	3.30	5.82	0.00	0.00
Band II	3.40	2.40	3.40	5.92	0.00	0.00
Band III	3.50	3.30	3.50	6.41	0.00	0.41

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

	Ant 9 (dBi)	Ant 8 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.30	2.30	5.82	5.82	0.00	0.00
Band II	3.40	2.40	5.92	5.92	0.00	0.00
Band III	3.50	3.30	6.41	6.41	0.41	0.41

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Jan. 04, 2022~ Jan. 06, 2022	Sep. 06, 2022	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 07, 2022~ Feb. 26, 2022	Jan. 06, 2023	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 28, 2021	Jan. 07, 2022~ Feb. 26, 2022	Apr. 27, 2022	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Jan. 07, 2022~ Feb. 26, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Jan. 07, 2022~ Feb. 26, 2022	Nov. 29, 2022	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	Jan. 07, 2022~ Feb. 26, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 22, 2021	Jan. 07, 2022~ Feb. 26, 2022	Apr. 21, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Jan. 07, 2022~ Feb. 26, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 23, 2021	Jan. 07, 2022~ Feb. 26, 2022	Jul. 22, 2022	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2021	Jan. 07, 2022~ Feb. 26, 2022	Jul. 21, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682-4	30MHz to 18GHz	Feb. 24, 2021	Jan. 07, 2022~ Feb. 22, 2022	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682-4	30MHz to 18GHz	Feb. 23, 2022	Feb. 23, 2022~ Feb. 26, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971-4	9kHz to 18GHz	Feb. 24, 2021	Jan. 07, 2022~ Feb. 22, 2022	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971-4	9kHz to 18GHz	Feb. 23, 2022	Feb. 23, 2022~ Feb. 26, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655-4	9kHz to 18GHz	Feb. 24, 2021	Jan. 07, 2022~ Feb. 22, 2022	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655-4	9kHz to 18GHz	Feb. 23, 2022	Feb. 23, 2022~ Feb. 26, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,801 606/2	18GHz~40GHz	Feb. 24, 2021	Jan. 07, 2022~ Feb. 22, 2022	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Feb. 23, 2022~ Feb. 26, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	18GHz~40GHz	Apr. 03, 2021	Feb. 23, 2022~ Feb. 26, 2022	Apr. 02, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Jan. 07, 2022~ Feb. 22, 2022	Sep. 16, 2022	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jan. 07, 2022~ Feb. 26, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jan. 07, 2022~ Feb. 26, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Jan. 07, 2022~ Feb. 26, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 09, 2021	Jan. 07, 2022~ Feb. 26, 2022	Mar. 08, 2022	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 22, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Dec. 22, 2021	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Dec. 22, 2021	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Dec. 22, 2021	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 22, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Dec. 22, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Dec. 22, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Dec. 28, 2021~ Feb. 10, 2022	Nov. 15, 2022	Conducted (TH02-HY)
Power Meter	DARE	RPR3006W	16I00054SNO12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Dec. 28, 2021~ Feb. 10, 2022	Dec. 15, 2022	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Dec. 28, 2021~ Feb. 10, 2022	Aug. 29, 2022	Conducted (TH02-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Dec. 28, 2021~ Feb. 10, 2022	Aug. 11, 2022	Conducted (TH02-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.1 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.8 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.0 dB**

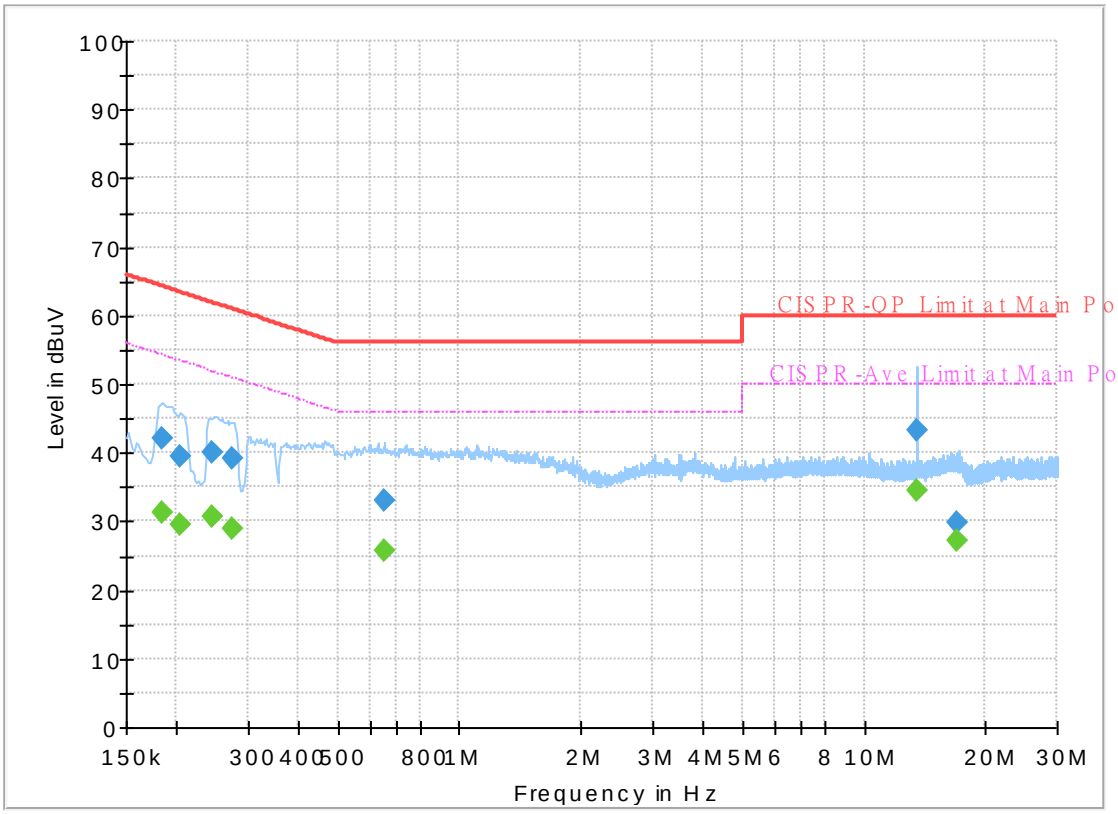
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	1D2108
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



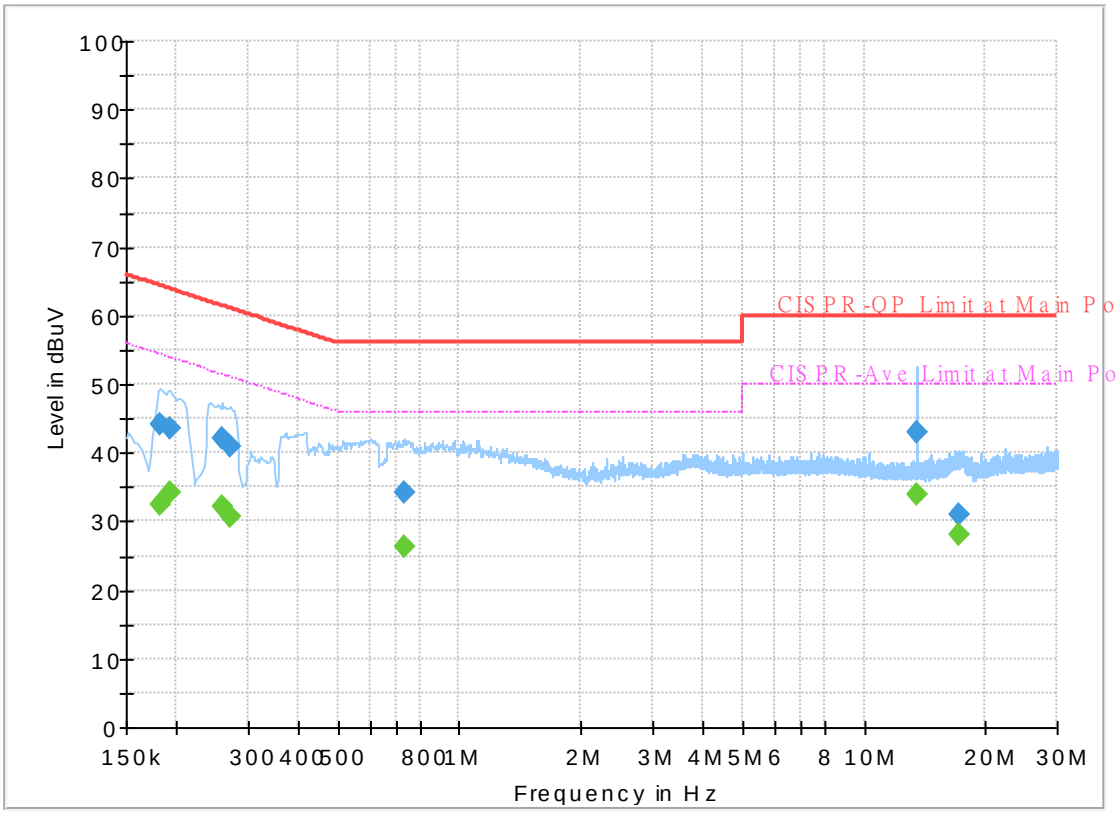
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	31.29	54.31	23.02	L1	OFF	19.6
0.183750	42.20	---	64.31	22.11	L1	OFF	19.6
0.204000	---	29.54	53.45	23.91	L1	OFF	19.6
0.204000	39.38	---	63.45	24.07	L1	OFF	19.6
0.244500	---	30.65	51.94	21.29	L1	OFF	19.6
0.244500	40.05	---	61.94	21.89	L1	OFF	19.6
0.273750	---	29.01	51.00	21.99	L1	OFF	19.6
0.273750	39.06	---	61.00	21.94	L1	OFF	19.6
0.649500	---	25.82	46.00	20.18	L1	OFF	19.9
0.649500	33.11	---	56.00	22.89	L1	OFF	19.9
13.560000	---	34.37	50.00	15.63	L1	OFF	20.2
13.560000	43.34	---	60.00	16.66	L1	OFF	20.2
16.928250	---	27.24	50.00	22.76	L1	OFF	20.4
16.928250	29.92	---	60.00	30.08	L1	OFF	20.4

EUT Information

Report NO :	1D2108
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	---	32.36	54.42	22.06	N	OFF	19.6
0.181500	44.20	---	64.42	20.22	N	OFF	19.6
0.192750	---	34.29	53.92	19.63	N	OFF	19.6
0.192750	43.55	---	63.92	20.37	N	OFF	19.6
0.258000	---	32.19	51.50	19.31	N	OFF	19.6
0.258000	42.11	---	61.50	19.39	N	OFF	19.6
0.271500	---	30.69	51.07	20.38	N	OFF	19.6
0.271500	41.05	---	61.07	20.02	N	OFF	19.6
0.728250	---	26.40	46.00	19.60	N	OFF	20.0
0.728250	34.13	---	56.00	21.87	N	OFF	20.0
13.560000	---	34.01	50.00	15.99	N	OFF	20.3
13.560000	43.04	---	60.00	16.96	N	OFF	20.3
17.187000	---	28.15	50.00	21.85	N	OFF	20.4
17.187000	31.07	---	60.00	28.93	N	OFF	20.4

Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	16.9~23.7°C
		Relative Humidity :	50.9~71.0%

<CDD Mode>

<Sample 1>

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 46 5230MHz		5148.46	59.29	-14.71	74	48.68	34.1	11.79	35.28	251	51	P	H
		5146.64	47.61	-6.39	54	37	34.1	11.79	35.28	251	51	A	H
	*	5230	103.36	-	-	92.31	34.42	11.87	35.24	251	51	P	H
	*	5230	94.97	-	-	83.92	34.42	11.87	35.24	251	51	A	H
		5368.44	59.23	-14.77	74	47.82	34.64	11.95	35.18	251	51	P	H
		5376	43.51	-10.49	54	32.07	34.65	11.96	35.17	251	51	A	H
		5109.2	64.74	-9.26	74	54.19	34.1	11.75	35.3	145	16	P	V
		5148.98	50.9	-3.1	54	40.29	34.1	11.79	35.28	145	16	A	V
	*	5230	106.22	-	-	95.17	34.42	11.87	35.24	145	16	P	V
	*	5230	98.52	-	-	87.47	34.42	11.87	35.24	145	16	A	V
		5368.16	59.71	-14.29	74	48.3	34.64	11.95	35.18	145	16	P	V
		5369	45.19	-8.81	54	33.78	34.64	11.95	35.18	145	16	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10460	47.18	-21.02	68.2	50.14	37.58	18.65	59.19	400	0	P	H
		15690	46.81	-27.19	74	40.05	40.38	23.48	57.1	400	0	P	H
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													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	43.52	-24.68	68.2	46.48	37.58	18.65	59.19	100	0	P	V
5230MHz		15690	46.86	-27.14	74	40.1	40.38	23.48	57.1	100	0	P	V
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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
9+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full LF		30	23.6	-16.4	40	28.16	24.57	0.9	30.03	-	-	P	H
		97.5	26.92	-16.58	43.5	39.56	15.66	1.69	29.99	-	-	P	H
		134.76	28.57	-14.93	43.5	39.08	17.5	1.97	29.98	-	-	P	H
		783.7	29.55	-16.45	46	26.99	27.83	4.35	29.62	-	-	P	H
		889.4	31.42	-14.58	46	27.07	28.68	4.65	28.98	-	-	P	H
		959.4	33.04	-12.96	46	26	30.8	4.91	28.67	-	-	P	H
													H
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													H
		30	33.56	-6.44	40	38.12	24.57	0.9	30.03	-	-	P	V
		35.94	30.61	-9.39	40	38.11	21.42	1.1	30.02	-	-	P	V
		50.52	26.35	-13.65	40	40.99	14.08	1.29	30.01	-	-	P	V
		821.5	29.59	-16.41	46	27.05	27.49	4.49	29.44	-	-	P	V
		899.9	31.14	-14.86	46	26.79	28.6	4.66	28.91	-	-	P	V
		949.6	32.8	-13.2	46	26.35	30.29	4.87	28.71	-	-	P	V
													V
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Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

<Sample 2>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
9+8		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5142.74	56.85	-17.15	74	46.26	34.1	11.78	35.29	369	40	P	H
		5147.42	43.99	-10.01	54	33.38	34.1	11.79	35.28	369	40	A	H
	*	5180	108.21	-	-	97.43	34.22	11.83	35.27	369	40	P	H
	*	5180	100.58	-	-	89.8	34.22	11.83	35.27	369	40	A	H
													H
													H
		5140.66	58.68	-15.32	74	48.09	34.1	11.78	35.29	139	15	P	V
		5150	48.38	-5.62	54	37.77	34.1	11.79	35.28	139	15	A	V
	*	5182	110.03	-	-	99.24	34.23	11.83	35.27	139	15	P	V
	*	5182	102.94	-	-	92.15	34.23	11.83	35.27	139	15	A	V
													V
													V
802.11a CH 44 5220MHz		5148.46	58.86	-15.14	74	48.25	34.1	11.79	35.28	400	44	P	H
		5150	47.36	-6.64	54	36.75	34.1	11.79	35.28	400	44	A	H
	*	5220	110.35	-	-	99.36	34.38	11.86	35.25	400	44	P	H
	*	5220	103.09	-	-	92.1	34.38	11.86	35.25	400	44	A	H
		5351.64	48.31	-25.69	74	36.95	34.6	11.94	35.18	400	44	P	H
		5459.72	39.4	-14.6	54	27.77	34.7	12.06	35.13	400	44	A	H
		5148.98	59.67	-14.33	74	49.06	34.1	11.79	35.28	138	23	P	V
		5150	50.16	-3.84	54	39.55	34.1	11.79	35.28	138	23	A	V
	*	5220	113.39	-	-	102.4	34.38	11.86	35.25	138	23	P	V
	*	5220	106.12	-	-	95.13	34.38	11.86	35.25	138	23	A	V
		5363.12	48.49	-25.51	74	37.09	34.63	11.95	35.18	138	23	P	V
		5350.8	40.26	-13.74	54	28.9	34.6	11.94	35.18	138	23	A	V

802.11a CH 48 5240MHz		5141.18	51.72	-22.28	74	41.13	34.1	11.78	35.29	329	45	P	H
		5150	42.51	-11.49	54	31.9	34.1	11.79	35.28	329	45	A	H
	*	5240	111.19	-	-	100.1	34.46	11.87	35.24	329	45	P	H
	*	5240	103.49	-	-	92.4	34.46	11.87	35.24	329	45	A	H
		5403.16	48.88	-25.12	74	37.37	34.7	11.97	35.16	329	45	P	H
		5350	40	-14	54	28.64	34.6	11.94	35.18	329	45	A	H
		5149.5	50.95	-23.05	74	40.34	34.1	11.79	35.28	141	54	P	V
		5149.76	42.56	-11.44	54	31.95	34.1	11.79	35.28	141	54	A	V
	*	5240	114.79	-	-	103.7	34.46	11.87	35.24	141	54	P	V
	*	5240	107.14	-	-	96.05	34.46	11.87	35.24	141	54	A	V
		5397.84	49.66	-24.34	74	38.16	34.7	11.97	35.17	141	54	P	V
		5352.48	40.27	-13.73	54	28.91	34.6	11.94	35.18	141	54	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	44.97	-23.23	68.2	48.39	37.32	18.57	59.31	-	-	P	H
		15540	45.84	-28.16	74	39.54	40.2	23.33	57.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	44.85	-23.35	68.2	48.27	37.32	18.57	59.31	-	-	P	V
		15540	46.19	-27.81	74	39.89	40.2	23.33	57.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	46.48	-21.72	68.2	49.53	37.52	18.64	59.21	-	-	P	H
		15660	46.57	-27.43	74	39.92	40.32	23.45	57.12	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 44 5220MHz													H
		10440	45.71	-22.49	68.2	48.76	37.52	18.64	59.21	-	-	P	V
		15660	46.99	-27.01	74	40.34	40.32	23.45	57.12	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		10480	45.33	-22.87	68.2	48.18	37.64	18.67	59.16	-	-	P	H
		15720	47.93	-26.07	74	41.04	40.46	23.5	57.07	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10480	44.68	-23.52	68.2	47.53	37.64	18.67	59.16	-	-	P	V
		15720	47.72	-26.28	74	40.83	40.46	23.5	57.07	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5144.04	58.31	-15.69	74	47.7	34.1	11.79	35.28	300	32	P	H
		5150	51.54	-2.46	54	40.93	34.1	11.79	35.28	300	32	A	H
	*	5180	109.19	-	-	98.41	34.22	11.83	35.27	300	32	P	H
	*	5180	101.8	-	-	91.02	34.22	11.83	35.27	300	32	A	H
802.11ax													H
HE20 Full													H
CH 36		5143.78	61.88	-12.12	74	51.27	34.1	11.79	35.28	103	48	P	V
5180MHz		5145.08	52.44	-1.56	54	41.83	34.1	11.79	35.28	103	48	A	V
	*	5180	112.59	-	-	101.81	34.22	11.83	35.27	103	48	P	V
	*	5180	103.47	-	-	92.69	34.22	11.83	35.27	103	48	A	V
													V
													V
		5120.38	49.75	-24.25	74	39.13	34.1	11.81	35.29	347	47	P	H
		5063.18	40.58	-13.42	54	30.14	34.03	11.74	35.33	347	47	A	H
	*	5220	112.3	-	-	101.26	34.38	11.91	35.25	347	47	P	H
	*	5220	103.01	-	-	91.97	34.38	11.91	35.25	347	47	A	H
802.11ax		5422.48	48.46	-25.54	74	36.88	34.7	12.04	35.16	347	47	P	H
HE20 Full		5456.36	39.79	-14.21	54	28.15	34.7	12.07	35.13	347	47	A	H
CH 44		5109.46	49.44	-24.56	74	38.84	34.1	11.8	35.3	149	29	P	V
5220MHz		5069.68	41.34	-12.66	54	30.86	34.04	11.75	35.31	149	29	A	V
	*	5220	115.07	-	-	104.03	34.38	11.91	35.25	149	29	P	V
	*	5220	107.35	-	-	96.31	34.38	11.91	35.25	149	29	A	V
		5430.32	48.76	-25.24	74	37.16	34.7	12.04	35.14	149	29	P	V
		5455.8	40.03	-13.97	54	28.39	34.7	12.07	35.13	149	29	A	V

		5150	64.81	-9.19	74	54.2	34.1	11.79	35.28	341	30	P	H
		5144.3	49.65	-4.35	54	39.04	34.1	11.79	35.28	341	30	A	H
	*	5240	112.34	-	-	101.25	34.46	11.87	35.24	341	30	P	H
	*	5240	103.19	-	-	92.1	34.46	11.87	35.24	341	30	A	H
802.11ax		5365.92	54.61	-19.39	74	43.21	34.63	11.95	35.18	341	30	P	H
HE20 Full		5354.16	43.54	-10.46	54	32.17	34.61	11.94	35.18	341	30	A	H
CH 48		5149.5	64.14	-9.86	74	53.53	34.1	11.79	35.28	100	26	P	V
5240MHz		5150	49.99	-4.01	54	39.38	34.1	11.79	35.28	100	26	A	V
	*	5240	116.16	-	-	105.07	34.46	11.87	35.24	100	26	P	V
	*	5240	106.89	-	-	95.8	34.46	11.87	35.24	100	26	A	V
		5351.64	56.48	-17.52	74	45.12	34.6	11.94	35.18	100	26	P	V
		5350	44.49	-9.51	54	33.13	34.6	11.94	35.18	100	26	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	45.02	-23.18	68.2	48.44	37.32	18.57	59.31	-	-	P	H
		15540	46.8	-27.2	74	40.5	40.2	23.33	57.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	43.21	-24.99	68.2	46.63	37.32	18.57	59.31	-	-	P	V
5180MHz		15540	46.43	-27.57	74	40.13	40.2	23.33	57.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	45.13	-23.07	68.2	48.18	37.52	18.64	59.21	-	-	P	H
		15660	46.32	-27.68	74	39.67	40.32	23.45	57.12	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	44.51	-23.69	68.2	47.56	37.52	18.64	59.21	-	-	P	V
5220MHz		15660	47.08	-26.92	74	40.43	40.32	23.45	57.12	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	44.56	-23.64	68.2	47.41	37.64	18.67	59.16	-	-	P	H
		15720	48.21	-25.79	74	41.32	40.46	23.5	57.07	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	44.85	-23.35	68.2	47.7	37.64	18.67	59.16	-	-	P	V
5240MHz		15720	48.22	-25.78	74	41.33	40.46	23.5	57.07	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5043.42	48.29	-25.71	74	37.94	34.01	11.67	35.33	400	43	P	H
		5150	39.28	-14.72	54	28.67	34.1	11.79	35.28	400	43	A	H
	*	5180	104.18	-	-	93.4	34.22	11.83	35.27	400	43	P	H
802.11ax	*	5180	96.08	-	-	85.3	34.22	11.83	35.27	400	43	A	H
HE20													H
Partial													H
106/53		5147.94	55.6	-18.4	74	44.99	34.1	11.79	35.28	152	38	P	V
CH 36		5149.76	39.66	-14.34	54	29.05	34.1	11.79	35.28	152	38	A	V
5180MHz	*	5180	108.08	-	-	97.3	34.22	11.83	35.27	152	38	P	V
	*	5180	99.98	-	-	89.2	34.22	11.83	35.27	152	38	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5145.08	54.8	-19.2	74	44.14	34.1	11.84	35.28	383	38	P	H
		5144.56	46.63	-7.37	54	35.97	34.1	11.84	35.28	383	38	A	H
	*	5190	106.03	-	-	95.15	34.26	11.89	35.27	383	38	P	H
	*	5190	96.08	-	-	85.2	34.26	11.89	35.27	383	38	A	H
802.11ax		5373.76	49	-25	74	37.52	34.65	12	35.17	383	38	P	H
HE40 Full		5444.04	39.84	-14.16	54	28.22	34.7	12.06	35.14	383	38	A	H
CH 38		5148.98	61.53	-12.47	74	50.87	34.1	11.84	35.28	130	329	P	V
5190MHz		5150	51.31	-2.69	54	40.65	34.1	11.84	35.28	130	329	A	V
	*	5190	107.18	-	-	96.3	34.26	11.89	35.27	130	329	P	V
	*	5190	97.64	-	-	86.76	34.26	11.89	35.27	130	329	A	V
		5435.92	48.33	-25.67	74	36.72	34.7	12.05	35.14	130	329	P	V
		5448.8	39.87	-14.13	54	28.24	34.7	12.07	35.14	130	329	A	V
		5143.52	64.29	-9.71	74	53.69	34.1	11.79	35.29	289	37	P	H
		5144.82	52.72	-1.28	54	42.11	34.1	11.79	35.28	289	37	A	H
	*	5230	107.85	-	-	96.8	34.42	11.87	35.24	289	37	P	H
	*	5230	98.95	-	-	87.9	34.42	11.87	35.24	289	37	A	H
802.11ax		5357.8	61.89	-12.11	74	50.51	34.62	11.94	35.18	289	37	P	H
HE40 Full		5355.28	46.82	-7.18	54	35.45	34.61	11.94	35.18	289	37	A	H
CH 46		5126.88	70.1	-3.9	74	59.52	34.1	11.77	35.29	100	26	P	V
5230MHz		5150	52.75	-1.25	54	42.14	34.1	11.79	35.28	100	26	A	V
	*	5230	109.62	-	-	98.57	34.42	11.87	35.24	100	26	P	V
	*	5230	101.45	-	-	90.4	34.42	11.87	35.24	100	26	A	V
		5383.56	58.17	-15.83	74	46.71	34.67	11.96	35.17	100	26	P	V
		5351.92	47.68	-6.32	54	36.32	34.6	11.94	35.18	100	26	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	44.39	-23.81	68.2	47.72	37.36	18.59	59.28	-	-	P	H
		15570	46.51	-27.49	74	40.15	40.2	23.36	57.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	43.71	-24.49	68.2	47.04	37.36	18.59	59.28	-	-	P	V
5190MHz		15570	46.71	-27.29	74	40.35	40.2	23.36	57.2	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10460	44.32	-23.88	68.2	47.28	37.58	18.65	59.19	-	-	P	H
		15690	46.4	-27.6	74	39.64	40.38	23.48	57.1	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	43.49	-24.71	68.2	46.45	37.58	18.65	59.19	-	-	P	V
5230MHz		15690	47	-27	74	40.24	40.38	23.48	57.1	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 38 5190MHz		5046.54	49.23	-24.77	74	38.88	34.01	11.67	35.33	400	42	P	H
		5150	39.45	-14.55	54	28.84	34.1	11.79	35.28	400	42	A	H
	*	5190	103.03	-	-	92.2	34.26	11.84	35.27	400	42	P	H
	*	5190	93.28	-	-	82.45	34.26	11.84	35.27	400	42	A	H
		5397	48.32	-25.68	74	36.83	34.69	11.97	35.17	400	42	P	H
		5460	39.03	-14.97	54	27.4	34.7	12.06	35.13	400	42	A	H
		5144.04	57.05	-16.95	74	46.44	34.1	11.79	35.28	150	35	P	V
		5150	40.14	-13.86	54	29.53	34.1	11.79	35.28	150	35	A	V
	*	5190	106.29	-	-	95.46	34.26	11.84	35.27	150	35	P	V
	*	5190	97.23	-	-	86.4	34.26	11.84	35.27	150	35	A	V
		5452.16	47.74	-26.26	74	36.12	34.7	12.05	35.13	150	35	P	V
		5458.88	39.07	-14.93	54	27.44	34.7	12.06	35.13	150	35	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 42 5210MHz		5145.34	57.03	-16.97	74	46.37	34.1	11.84	35.28	387	38	P	H
		5144.56	48.51	-5.49	54	37.85	34.1	11.84	35.28	387	38	A	H
	*	5210	101	-	-	90	34.34	11.91	35.25	387	38	P	H
	*	5210	92.55	-	-	81.55	34.34	11.91	35.25	387	38	A	H
		5422.48	48.6	-25.4	74	37.02	34.7	12.04	35.16	387	38	P	H
		5437.04	39.94	-14.06	54	28.33	34.7	12.05	35.14	387	38	A	H
		5147.68	61.78	-12.22	74	51.12	34.1	11.84	35.28	143	322	P	V
		5147.94	51.58	-2.42	54	40.92	34.1	11.84	35.28	143	322	A	V
	*	5210	103.05	-	-	92.05	34.34	11.91	35.25	143	322	P	V
	*	5210	94.89	-	-	83.89	34.34	11.91	35.25	143	322	A	V
		5440.96	48.82	-25.18	74	37.2	34.7	12.06	35.14	143	322	P	V
		5454.68	39.94	-14.06	54	28.3	34.7	12.07	35.13	143	322	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	43.41	-24.79	68.2	46.57	37.46	18.62	59.24	-	-	P	H
		15630	46.22	-27.78	74	39.69	40.26	23.42	57.15	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	44.1	-24.1	68.2	47.26	37.46	18.62	59.24	-	-	P	V
5210MHz		15630	46.54	-27.46	74	40.01	40.26	23.42	57.15	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 42 5210MHz		5074.88	52.49	-21.51	74	42.04	34.05	11.71	35.31	400	43	P	H
		5150	39.7	-14.3	54	29.09	34.1	11.79	35.28	400	43	A	H
	*	5210	98.89	-	-	87.94	34.34	11.86	35.25	400	43	P	H
	*	5210	90.44	-	-	79.49	34.34	11.86	35.25	400	43	A	H
		5452.72	48.19	-25.81	74	36.57	34.7	12.05	35.13	400	43	P	H
		5458.88	39.05	-14.95	54	27.42	34.7	12.06	35.13	400	43	A	H
		5130.78	55.01	-18.99	74	44.43	34.1	11.77	35.29	152	36	P	V
		5150	40.72	-13.28	54	30.11	34.1	11.79	35.28	152	36	A	V
	*	5210	102.61	-	-	91.66	34.34	11.86	35.25	152	36	P	V
	*	5210	94.44	-	-	83.49	34.34	11.86	35.25	152	36	A	V
		5377.4	50.18	-23.82	74	38.74	34.65	11.96	35.17	152	36	P	V
		5457.2	39.11	-14.89	54	27.48	34.7	12.06	35.13	152	36	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 50 5250MHz		5135.45	52.57	-21.43	74	41.98	34.1	11.78	35.29	400	54	P	H
		5125.65	39.7	-14.3	54	29.13	34.1	11.76	35.29	400	54	A	H
	*	5250	93.13	-	-	81.98	34.5	11.88	35.23	400	54	P	H
	*	5250	85.48	-	-	74.33	34.5	11.88	35.23	400	54	A	H
		5371.2	47.87	-26.13	74	36.46	34.64	11.95	35.18	400	54	P	H
		5458.8	39.06	-14.94	54	27.43	34.7	12.06	35.13	400	54	A	H
		5135.8	52.11	-21.89	74	41.52	34.1	11.78	35.29	100	327	P	V
		5128.45	40.33	-13.67	54	29.75	34.1	11.77	35.29	100	327	A	V
	*	5250	96.18	-	-	85.03	34.5	11.88	35.23	100	327	P	V
	*	5250	88.29	-	-	77.14	34.5	11.88	35.23	100	327	A	V
		5394.72	56.13	-17.87	74	44.64	34.69	11.97	35.17	100	327	P	V
		5398.8	39.21	-14.79	54	27.7	34.7	11.97	35.16	100	327	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5078.75	48.89	-25.11	74	38.43	34.06	11.71	35.31	123	2	P	H
		5114.1	39.63	-14.37	54	29.08	34.1	11.75	35.3	123	2	A	H
	*	5260	109.6	-	-	98.42	34.52	11.89	35.23	123	2	P	H
	*	5260	101.06	-	-	89.88	34.52	11.89	35.23	123	2	A	H
		5456.88	47.9	-26.1	74	36.27	34.7	12.06	35.13	123	2	P	H
		5460	38.92	-15.08	54	27.29	34.7	12.06	35.13	123	2	A	H
		5080.5	50.19	-23.81	74	39.73	34.06	11.71	35.31	154	30	P	V
		5109.9	40.13	-13.87	54	29.58	34.1	11.75	35.3	154	30	A	V
	*	5260	113.77	-	-	102.59	34.52	11.89	35.23	154	30	P	V
	*	5260	105.6	-	-	94.42	34.52	11.89	35.23	154	30	A	V
		5439.84	47.69	-26.31	74	36.1	34.7	12.03	35.14	154	30	P	V
		5352.24	40.35	-13.65	54	28.99	34.6	11.94	35.18	154	30	A	V
802.11a CH 60 5300MHz		5038.15	48.93	-25.07	74	38.59	34.02	11.66	35.34	397	41	P	H
		5148.75	39.59	-14.41	54	28.98	34.1	11.79	35.28	397	41	A	H
	*	5300	107.17	-	-	95.86	34.6	11.91	35.2	397	41	P	H
	*	5300	99.23	-	-	87.92	34.6	11.91	35.2	397	41	A	H
		5373.12	61.99	-12.01	74	50.57	34.65	11.95	35.18	397	41	P	H
		5357.04	46.58	-7.42	54	35.21	34.61	11.94	35.18	397	41	A	H
		5146.3	49.06	-24.94	74	38.45	34.1	11.79	35.28	100	25	P	V
		5147.35	39.83	-14.17	54	29.22	34.1	11.79	35.28	100	25	A	V
	*	5300	110.28	-	-	98.97	34.6	11.91	35.2	100	25	P	V
	*	5300	102.44	-	-	91.13	34.6	11.91	35.2	100	25	A	V
		5353.68	59.42	-14.58	74	48.05	34.61	11.94	35.18	100	25	P	V
		5354.64	49.94	-4.06	54	38.57	34.61	11.94	35.18	100	25	A	V

802.11a CH 64 5320MHz	*	5320	107.61	39.41	68.2	96.29	34.6	11.92	35.2	364	37	P	H
	*	5320	100.31	46.31	54	88.99	34.6	11.92	35.2	364	37	A	H
		5358.72	58.55	-15.45	74	47.16	34.62	11.95	35.18	364	37	P	H
		5351.84	48.37	-5.63	54	37.01	34.6	11.94	35.18	364	37	A	H
													H
													H
	*	5320	112.69	44.49	68.2	101.37	34.6	11.92	35.2	126	40	P	V
	*	5320	105.38	51.38	54	94.06	34.6	11.92	35.2	126	40	A	V
		5357.92	60.8	-13.2	74	49.42	34.62	11.94	35.18	126	40	P	V
		5351.84	52.05	-1.95	54	40.69	34.6	11.94	35.18	126	40	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	45.36	-22.84	68.2	48.11	37.66	18.71	59.12	-	-	P	H
		15780	47.42	-26.58	74	40.24	40.64	23.56	57.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	44.09	-24.11	68.2	46.84	37.66	18.71	59.12	-	-	P	V
		15780	48	-26	74	40.82	40.64	23.56	57.02	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	44.22	-29.78	74	46.97	37.5	18.77	59.02	-	-	P	H
		15900	47.68	-26.32	74	40.02	40.9	23.68	56.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 60 5300MHz													H
		10600	44.16	-29.84	74	46.91	37.5	18.77	59.02	-	-	P	V
		15900	48.25	-25.75	74	40.59	40.9	23.68	56.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10640	43.78	-30.22	74	46.46	37.5	18.8	58.98	-	-	P	H
		15960	46.74	-27.26	74	38.89	40.96	23.75	56.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 64 5320MHz													H
		10640	44.17	-29.83	74	46.85	37.5	18.8	58.98	-	-	P	V
		15960	46.44	-27.56	74	38.59	40.96	23.75	56.86	-	-	P	V
													V
													V
													V
													V
													V
													V
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													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5136.5	54.34	-19.66	74	43.75	34.1	11.78	35.29	146	10	P	H
		5146.3	43.59	-10.41	54	32.98	34.1	11.79	35.28	146	10	A	H
	*	5260	109.56	-	-	98.38	34.52	11.89	35.23	146	10	P	H
	*	5260	101.12	-	-	89.94	34.52	11.89	35.23	146	10	A	H
802.11ax		5357.52	59.47	-14.53	74	48.09	34.62	11.94	35.18	146	10	P	H
HE20 Full		5356.56	45.04	-8.96	54	33.67	34.61	11.94	35.18	146	10	A	H
CH 52		5136.5	55.42	-18.58	74	44.83	34.1	11.78	35.29	100	22	P	V
5260MHz		5149.45	45.72	-8.28	54	35.11	34.1	11.79	35.28	100	22	A	V
	*	5260	113.46	-	-	102.28	34.52	11.89	35.23	100	22	P	V
	*	5260	106.87	-	-	95.69	34.52	11.89	35.23	100	22	A	V
		5359.44	66.77	-7.23	74	55.38	34.62	11.95	35.18	100	22	P	V
		5350.08	51.85	-2.15	54	40.49	34.6	11.94	35.18	100	22	A	V
		5103.95	48.86	-25.14	74	38.27	34.1	11.79	35.3	354	48	P	H
		5142.1	40.63	-13.37	54	29.99	34.1	11.83	35.29	354	48	A	H
	*	5300	111.7	-	-	100.35	34.6	11.95	35.2	354	48	P	H
	*	5300	102.62	-	-	91.27	34.6	11.95	35.2	354	48	A	H
802.11ax		5351.76	48.94	-25.06	74	37.54	34.6	11.98	35.18	354	48	P	H
HE20 Full		5354.64	40.77	-13.23	54	29.35	34.61	11.99	35.18	354	48	A	H
CH 60		5030.45	49.41	-24.59	74	39	34.04	11.71	35.34	125	28	P	V
5300MHz		5148.75	41.54	-12.46	54	30.88	34.1	11.84	35.28	125	28	A	V
	*	5300	115.64	-	-	104.29	34.6	11.95	35.2	125	28	P	V
	*	5300	107.35	-	-	96	34.6	11.95	35.2	125	28	A	V
		5351.52	54	-20	74	42.6	34.6	11.98	35.18	125	28	P	V
		5350.56	45.14	-8.86	54	33.74	34.6	11.98	35.18	125	28	A	V

	*	5320	109.93	-	-	98.56	34.6	11.97	35.2	365	51	P	H
	*	5320	100.32	-	-	88.95	34.6	11.97	35.2	365	51	A	H
		5354.08	50.51	-23.49	74	39.1	34.61	11.98	35.18	365	51	P	H
		5354.56	43.85	-10.15	54	32.43	34.61	11.99	35.18	365	51	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	114.72	-	-	103.35	34.6	11.97	35.2	130	28	P	V
5320MHz	*	5320	105.33	-	-	93.96	34.6	11.97	35.2	130	28	A	V
		5351.84	61.5	-12.5	74	50.1	34.6	11.98	35.18	130	28	P	V
		5351.36	51.31	-2.69	54	39.91	34.6	11.98	35.18	130	28	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	44	-24.2	68.2	46.75	37.66	18.71	59.12	-	-	P	H
		15780	47.32	-26.68	74	40.14	40.64	23.56	57.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	44.35	-23.85	68.2	47.1	37.66	18.71	59.12	-	-	P	V
5260MHz		15780	46.91	-27.09	74	39.73	40.64	23.56	57.02	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	43.16	-30.84	74	45.91	37.5	18.77	59.02	-	-	P	H
		15900	47.77	-26.23	74	40.11	40.9	23.68	56.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	43.67	-30.33	74	46.42	37.5	18.77	59.02	-	-	P	V
5300MHz		15900	48.75	-25.25	74	41.09	40.9	23.68	56.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10640	43.42	-30.58	74	46.1	37.5	18.8	58.98	-	-	P	H
		15960	46.65	-27.35	74	38.8	40.96	23.75	56.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		10640	44.18	-29.82	74	46.86	37.5	18.8	58.98	-	-	P	V
5320MHz		15960	46	-28	74	38.15	40.96	23.75	56.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5320	102.25	-	-	90.93	34.6	11.92	35.2	346	39	P	H
	*	5320	94.2	-	-	82.88	34.6	11.92	35.2	346	39	A	H
		5366.24	48.6	-25.4	74	37.2	34.63	11.95	35.18	346	39	P	H
802.11ax		5459.68	39.05	-14.95	54	27.42	34.7	12.06	35.13	346	39	A	H
HE20													H
Partial													H
106/54	*	5320	107.82	-	-	96.5	34.6	11.92	35.2	149	14	P	V
CH 64	*	5320	99.57	-	-	88.25	34.6	11.92	35.2	149	14	A	V
5320MHz		5403.04	49.87	-24.13	74	38.36	34.7	11.97	35.16	149	14	P	V
		5459.2	39.1	-14.9	54	27.47	34.7	12.06	35.13	149	14	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5144.55	57.07	-16.93	74	46.46	34.1	11.79	35.28	145	6	P	H
		5146.65	43.37	-10.63	54	32.76	34.1	11.79	35.28	145	6	A	H
	*	5270	104.16	-	-	92.96	34.54	11.89	35.23	145	6	P	H
	*	5270	96.44	-	-	85.24	34.54	11.89	35.23	145	6	A	H
802.11ax		5352	63.08	-10.92	74	51.72	34.6	11.94	35.18	145	6	P	H
HE40 Full		5358.24	45.04	-8.96	54	33.66	34.62	11.94	35.18	145	6	A	H
CH 54		5120.05	62.01	-11.99	74	51.44	34.1	11.76	35.29	100	345	P	V
5270MHz		5139.65	46.45	-7.55	54	35.86	34.1	11.78	35.29	100	345	A	V
	*	5270	108.41	-	-	97.21	34.54	11.89	35.23	100	345	P	V
	*	5270	99.28	-	-	88.08	34.54	11.89	35.23	100	345	A	V
		5368.8	66.52	-7.48	74	55.11	34.64	11.95	35.18	100	345	P	V
		5351.76	49.93	-4.07	54	38.57	34.6	11.94	35.18	100	345	A	V
		5149.8	49.85	-24.15	74	39.24	34.1	11.79	35.28	137	4	P	H
		5145.95	39.68	-14.32	54	29.07	34.1	11.79	35.28	137	4	A	H
	*	5310	101.74	-	-	90.42	34.6	11.92	35.2	137	4	P	H
	*	5310	94.24	-	-	82.92	34.6	11.92	35.2	137	4	A	H
802.11ax		5358	65.74	-8.26	74	54.36	34.62	11.94	35.18	137	4	P	H
HE40 Full		5352	47.27	-6.73	54	35.91	34.6	11.94	35.18	137	4	A	H
CH 62		5133.7	50.28	-23.72	74	39.7	34.1	11.77	35.29	103	337	P	V
5310MHz		5149.45	40.61	-13.39	54	30	34.1	11.79	35.28	103	337	A	V
	*	5310	104.55	-	-	93.23	34.6	11.92	35.2	103	337	P	V
	*	5310	97.3	-	-	85.98	34.6	11.92	35.2	103	337	A	V
		5359.92	66.45	-7.55	74	55.06	34.62	11.95	35.18	103	337	P	V
		5350.32	51.87	-2.13	54	40.51	34.6	11.94	35.18	103	337	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	44.12	-24.08	68.2	46.87	37.62	18.72	59.09	-	-	P	H
		15810	47.29	-26.71	74	39.97	40.72	23.59	56.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	43.29	-24.91	68.2	46.04	37.62	18.72	59.09	-	-	P	V
5270MHz		15810	46.75	-27.25	74	39.43	40.72	23.59	56.99	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10620	43.83	-30.17	74	46.54	37.5	18.79	59	-	-	P	H
		15930	47.32	-26.68	74	39.56	40.93	23.72	56.89	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		10620	44.15	-29.85	74	46.86	37.5	18.79	59	-	-	P	V
5310MHz		15930	47.6	-26.4	74	39.84	40.93	23.72	56.89	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/62 CH 62 5310MHz		5067.2	49.43	-24.57	74	39.03	34.03	11.7	35.33	385	52	P	H
		5134.75	39.37	-14.63	54	28.79	34.1	11.77	35.29	385	52	A	H
	*	5310	101.93	-	-	90.61	34.6	11.92	35.2	385	52	P	H
	*	5310	93.63	-	-	82.31	34.6	11.92	35.2	385	52	A	H
		5454	48.55	-25.45	74	36.93	34.7	12.05	35.13	385	52	P	H
		5457.36	39.05	-14.95	54	27.42	34.7	12.06	35.13	385	52	A	H
		5075.25	49.11	-24.89	74	38.66	34.05	11.71	35.31	128	33	P	V
		5132.3	39.47	-14.53	54	28.89	34.1	11.77	35.29	128	33	A	V
	*	5310	105.89	-	-	94.57	34.6	11.92	35.2	128	33	P	V
	*	5310	98.04	-	-	86.72	34.6	11.92	35.2	128	33	A	V
		5351.28	53.28	-20.72	74	41.92	34.6	11.94	35.18	128	33	P	V
		5350.8	39.56	-14.44	54	28.2	34.6	11.94	35.18	128	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5108.5	49.57	-24.43	74	38.98	34.1	11.79	35.3	144	0	P	H
		5136.5	40.47	-13.53	54	29.83	34.1	11.83	35.29	144	0	A	H
	*	5290	100.01	-	-	88.7	34.58	11.95	35.22	144	0	P	H
	*	5290	91.51	-	-	80.2	34.58	11.95	35.22	144	0	A	H
802.11ax		5365.68	55.02	-18.98	74	43.58	34.63	11.99	35.18	144	0	P	H
HE80 Full		5356.08	47.47	-6.53	54	36.05	34.61	11.99	35.18	144	0	A	H
CH 58		5147.7	49.86	-24.14	74	39.2	34.1	11.84	35.28	132	29	P	V
5290MHz		5150	40.91	-13.09	54	30.25	34.1	11.84	35.28	132	29	A	V
	*	5290	104.18	-	-	92.87	34.58	11.95	35.22	132	29	P	V
	*	5290	95.91	-	-	84.6	34.58	11.95	35.22	132	29	A	V
		5351.28	59.56	-14.44	74	48.16	34.6	11.98	35.18	132	29	P	V
		5353.2	52.87	-1.13	54	41.46	34.61	11.98	35.18	132	29	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	43.24	-24.96	68.2	45.99	37.54	18.76	59.05	-	-	P	H
		15870	47.68	-26.32	74	40.12	40.84	23.66	56.94	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	42.78	-25.42	68.2	45.53	37.54	18.76	59.05	-	-	P	V
5290MHz		15870	46.97	-27.03	74	39.41	40.84	23.66	56.94	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/66 CH 58 5290MHz		5147	53.34	-20.66	74	42.73	34.1	11.79	35.28	379	43	P	H
		5121.45	39.65	-14.35	54	29.08	34.1	11.76	35.29	379	43	A	H
	*	5290	98.39	-	-	87.13	34.58	11.9	35.22	379	43	P	H
	*	5290	90.35	-	-	79.09	34.58	11.9	35.22	379	43	A	H
		5356.8	58.42	-15.58	74	47.05	34.61	11.94	35.18	379	43	P	H
		5352.72	39.97	-14.03	54	28.6	34.61	11.94	35.18	379	43	A	H
		5065.1	53.17	-20.83	74	42.78	34.03	11.69	35.33	126	33	P	V
		5135.1	40.06	-13.94	54	29.47	34.1	11.78	35.29	126	33	A	V
	*	5290	103.08	-	-	91.82	34.58	11.9	35.22	126	33	P	V
	*	5290	95.13	-	-	83.87	34.58	11.9	35.22	126	33	A	V
		5353.44	61.78	-12.22	74	50.41	34.61	11.94	35.18	126	33	P	V
		5356.56	44.27	-9.73	54	32.9	34.61	11.94	35.18	126	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10500	44.18	-24.02	68.2	46.93	37.7	18.69	59.14	100	0	P	H
		15750	47.91	-26.09	74	40.87	40.55	23.53	57.04	100	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		10500	44.67	-23.53	68.2	47.42	37.7	18.69	59.14	100	0	P	V
5250MHz		15750	47.27	-26.73	74	40.23	40.55	23.53	57.04	100	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		5125.84	52.34	-21.66	74	41.72	34.1	11.81	35.29	391	35	P	H
		5133.38	44.13	-9.87	54	33.5	34.1	11.82	35.29	391	35	A	H
	*	5250	96.78	-	-	85.58	34.5	11.93	35.23	391	35	P	H
	*	5250	89.3	-	-	78.1	34.5	11.93	35.23	391	35	A	H
		5372.92	57.25	-16.75	74	45.78	34.65	12	35.18	391	35	P	H
		5354.16	47.56	-6.44	54	36.15	34.61	11.98	35.18	391	35	A	H
		5121.94	54.65	-19.35	74	44.03	34.1	11.81	35.29	139	30	P	V
		5131.56	46.38	-7.62	54	35.75	34.1	11.82	35.29	139	30	A	V
	*	5250	101.77	-	-	90.57	34.5	11.93	35.23	139	30	P	V
	*	5250	93.5	-	-	82.3	34.5	11.93	35.23	139	30	A	V
		5362.56	57.79	-16.21	74	46.35	34.63	11.99	35.18	139	30	P	V
		5352.48	52.28	-1.72	54	40.88	34.6	11.98	35.18	139	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10500	44.18	-24.02	68.2	46.93	37.7	18.69	59.14	100	0	P	H
		15750	47.91	-26.09	74	40.87	40.55	23.53	57.04	100	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		10500	44.67	-23.53	68.2	47.42	37.7	18.69	59.14	100	0	P	V
5250MHz		15750	47.27	-26.73	74	40.23	40.55	23.53	57.04	100	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/68 CH 50 5250MHz		5081.9	52.46	-21.54	74	42	34.06	11.71	35.31	400	46	P	H
		5130.9	39.68	-14.32	54	29.1	34.1	11.77	35.29	400	46	A	H
	*	5250	92.32	-	-	81.17	34.5	11.88	35.23	400	46	P	H
	*	5250	84.76	-	-	73.61	34.5	11.88	35.23	400	46	A	H
		5352.96	49.23	-24.77	74	37.86	34.61	11.94	35.18	400	46	P	H
		5354.4	39.11	-14.89	54	27.74	34.61	11.94	35.18	400	46	A	H
		5119.7	54.95	-19.05	74	44.38	34.1	11.76	35.29	137	33	P	V
		5129.5	40.14	-13.86	54	29.56	34.1	11.77	35.29	137	33	A	V
	*	5250	98.15	-	-	87	34.5	11.88	35.23	137	33	P	V
	*	5250	89.09	-	-	77.94	34.5	11.88	35.23	137	33	A	V
		5395.2	53.67	-20.33	74	42.18	34.69	11.97	35.17	137	33	P	V
		5352.48	40.43	-13.57	54	29.07	34.6	11.94	35.18	137	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5454.32	55.58	-18.42	74	43.96	34.7	12.05	35.13	400	35	P	H
		5467.44	61.58	-6.62	68.2	49.94	34.7	12.07	35.13	400	35	P	H
		5460	44.03	-9.97	54	32.4	34.7	12.06	35.13	400	35	A	H
	*	5500	105.9	-	-	94.2	34.7	12.12	35.12	400	35	P	H
	*	5500	98.01	-	-	86.31	34.7	12.12	35.12	400	35	A	H
													H
		5458.64	62.41	-11.59	74	50.78	34.7	12.06	35.13	212	16	P	V
		5470	65.92	-2.28	68.2	54.27	34.7	12.08	35.13	212	16	P	V
		5459.28	51.73	-2.27	54	40.1	34.7	12.06	35.13	212	16	A	V
	*	5500	111.54	-	-	99.84	34.7	12.12	35.12	212	16	P	V
	*	5500	104.4	-	-	92.7	34.7	12.12	35.12	212	16	A	V
													V
802.11a CH 116 5580MHz		5443.84	48.08	-25.92	74	36.48	34.7	12.04	35.14	388	35	P	H
		5468.56	48.66	-19.54	68.2	37.01	34.7	12.08	35.13	388	35	P	H
		5457.76	39.86	-14.14	54	28.23	34.7	12.06	35.13	388	35	A	H
	*	5580	106.71	-	-	94.9	34.7	12.25	35.14	388	35	P	H
	*	5580	99.51	-	-	87.7	34.7	12.25	35.14	388	35	A	H
		5760.275	50.26	-17.94	68.2	37.79	35.2	12.44	35.17	388	35	P	H
		5459.2	53.03	-20.97	74	41.4	34.7	12.06	35.13	200	10	P	V
		5464	50.93	-17.27	68.2	39.29	34.7	12.07	35.13	200	10	P	V
		5458.72	41.7	-12.3	54	30.07	34.7	12.06	35.13	200	10	A	V
	*	5580	113.83	-	-	102.02	34.7	12.25	35.14	200	10	P	V
	*	5580	106.11	-	-	94.3	34.7	12.25	35.14	200	10	A	V
		5740.745	49.47	-18.73	68.2	37.08	35.14	12.42	35.17	200	10	P	V

802.11a CH 140 5700MHz	*	5700	102.72	-	-	90.6	34.9	12.38	35.16	100	20	P	H
	*	5700	96.13	-	-	84.01	34.9	12.38	35.16	100	20	A	H
		5725.32	54.2	-14	68.2	41.9	35.05	12.41	35.16	100	20	P	H
													H
													H
													H
	*	5700	110.62	-	-	98.5	34.9	12.38	35.16	195	22	P	V
	*	5700	103.52	-	-	91.4	34.9	12.38	35.16	195	22	A	V
		5726.36	64.48	-3.72	68.2	52.17	35.06	12.41	35.16	195	22	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	44.95	-29.05	74	46.41	38	19.1	58.56	-	-	P	H
		16500	49.7	-18.5	68.2	39.99	42.1	24.25	56.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 100 5500MHz													H
		11000	45.81	-28.19	74	47.27	38	19.1	58.56	-	-	P	V
		16500	49.62	-18.58	68.2	39.91	42.1	24.25	56.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	44.64	-29.36	74	45.78	37.86	19.23	58.23	-	-	P	H
		16740	48.26	-19.94	68.2	38.32	42.14	24.47	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 116 5580MHz													H
		11160	45.21	-28.79	74	46.35	37.86	19.23	58.23	-	-	P	V
		16740	48.52	-19.68	68.2	38.58	42.14	24.47	56.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	45.03	-28.97	74	45.13	38.2	19.43	57.73	-	-	P	H
		17100	49.82	-18.38	68.2	40.03	41.6	24.81	56.62	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 140 5700MHz													H
		11400	45.64	-28.36	74	45.74	38.2	19.43	57.73	-	-	P	V
		17100	48.99	-19.21	68.2	39.2	41.6	24.81	56.62	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5450.16	53.88	-20.12	74	42.26	34.7	12.05	35.13	400	35	P	H
		5470	58.4	-9.8	68.2	46.75	34.7	12.08	35.13	400	35	P	H
		5460	41.47	-12.53	54	29.84	34.7	12.06	35.13	400	35	A	H
	*	5500	103.9	-	-	92.2	34.7	12.12	35.12	400	35	P	H
802.11ax	*	5500	94.4	-	-	82.7	34.7	12.12	35.12	400	35	A	H
HE20 Full		5458.64	61.02	-12.98	74	49.39	34.7	12.06	35.13	187	16	P	V
CH 100		5467.6	66.19	-2.01	68.2	54.55	34.7	12.07	35.13	187	16	P	V
5500MHz		5458	46.14	-7.86	54	34.51	34.7	12.06	35.13	187	16	A	V
	*	5500	109.04	-	-	97.34	34.7	12.12	35.12	187	16	P	V
	*	5500	100.61	-	-	88.91	34.7	12.12	35.12	187	16	A	V
													V
													V
		5457.52	51.69	-22.31	74	40.06	34.7	12.06	35.13	388	35	P	H
		5466.16	56.59	-11.61	68.2	44.95	34.7	12.07	35.13	388	35	P	H
		5454.64	41.68	-12.32	54	30.06	34.7	12.05	35.13	388	35	A	H
	*	5580	106.46	-	-	94.65	34.7	12.25	35.14	388	35	P	H
802.11ax	*	5580	98.31	-	-	86.5	34.7	12.25	35.14	388	35	A	H
HE20 Full		5744.21	49.29	-18.91	68.2	36.87	35.17	12.42	35.17	388	35	P	H
CH 116		5458.24	60.53	-13.47	74	48.9	34.7	12.06	35.13	202	12	P	V
5580MHz		5469.04	58.71	-9.49	68.2	47.06	34.7	12.08	35.13	202	12	P	V
		5457.52	45.59	-8.41	54	33.96	34.7	12.06	35.13	202	12	A	V
	*	5580	112.89	-	-	101.08	34.7	12.25	35.14	202	12	P	V
	*	5580	105.51	-	-	93.7	34.7	12.25	35.14	202	12	A	V
		5741.06	56.06	-12.14	68.2	43.66	35.15	12.42	35.17	202	12	P	V

	*	5700	106.6	-	-	94.58	34.9	12.28	35.16	381	47	P	H
	*	5700	97.35	-	-	85.33	34.9	12.28	35.16	381	47	A	H
		5725.4	59.47	-8.73	68.2	47.28	35.05	12.3	35.16	381	47	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	111.15	-	-	99.13	34.9	12.28	35.16	155	24	P	V
5700MHz	*	5700	104.23	-	-	92.21	34.9	12.28	35.16	155	24	A	V
		5731.48	63.92	-4.28	68.2	51.7	35.09	12.3	35.17	155	24	P	V
													V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	44.18	-29.82	74	45.64	38	19.1	58.56	-	-	P	H
		16500	50.16	-18.04	68.2	40.45	42.1	24.25	56.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	44.3	-29.7	74	45.76	38	19.1	58.56	-	-	P	V
5500MHz		16500	48.89	-19.31	68.2	39.18	42.1	24.25	56.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	44.24	-29.76	74	45.38	37.86	19.23	58.23	-	-	P	H
		16740	48.88	-19.32	68.2	38.94	42.14	24.47	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	43.56	-30.44	74	44.7	37.86	19.23	58.23	-	-	P	V
5580MHz		16740	49.4	-18.8	68.2	39.46	42.14	24.47	56.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	45.76	-28.24	74	45.86	38.2	19.43	57.73	-	-	P	H
		17100	48.86	-19.34	68.2	39.07	41.6	24.81	56.62	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	44.57	-29.43	74	44.67	38.2	19.43	57.73	-	-	P	V
5700MHz		17100	49.58	-18.62	68.2	39.79	41.6	24.81	56.62	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5444.4	48.15	-25.85	74	36.55	34.7	12.04	35.14	394	49	P	H
		5462.8	47.7	-20.5	68.2	36.06	34.7	12.07	35.13	394	49	P	H
		5459.76	39.1	-14.9	54	27.47	34.7	12.06	35.13	394	49	A	H
802.11ax	*	5500	104.62	-	-	92.92	34.7	12.12	35.12	394	49	P	H
HE20	*	5500	95.58	-	-	83.88	34.7	12.12	35.12	394	49	A	H
Partial													H
106/53		5459.12	50.8	-23.2	74	39.17	34.7	12.06	35.13	144	30	P	V
CH 100		5462.32	48.88	-19.32	68.2	37.24	34.7	12.07	35.13	144	30	P	V
5500MHz		5459.6	39.42	-14.58	54	27.79	34.7	12.06	35.13	144	30	A	V
	*	5500	107.68	-	-	95.98	34.7	12.12	35.12	144	30	P	V
	*	5500	100.01	-	-	88.31	34.7	12.12	35.12	144	30	A	V
													V
	*	5700	103.23	-	-	91.11	34.9	12.38	35.16	399	49	P	H
	*	5700	93.18	-	-	81.06	34.9	12.38	35.16	399	49	A	H
		5728.84	50.68	-17.52	68.2	38.36	35.07	12.41	35.16	399	49	P	H
802.11ax													H
HE20													H
Partial													H
106/54	*	5700	108.23	-	-	96.11	34.9	12.38	35.16	148	9	P	V
CH 140	*	5700	99.29	-	-	87.17	34.9	12.38	35.16	148	9	A	V
5700MHz		5738.36	50.04	-18.16	68.2	37.66	35.13	12.42	35.17	148	9	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5453.44	50.23	-23.77	74	38.59	34.7	12.07	35.13	389	43	P	H
		5465.2	58.25	-9.95	68.2	46.6	34.7	12.08	35.13	389	43	P	H
		5454.16	43.16	-10.84	54	31.52	34.7	12.07	35.13	389	43	A	H
	*	5510	102.41	-	-	90.69	34.7	12.14	35.12	389	43	P	H
802.11ax	*	5510	94.21	-	-	82.49	34.7	12.14	35.12	389	43	A	H
HE40 Full		5746.415	49.19	-19.01	68.2	36.87	35.18	12.31	35.17	389	43	P	H
CH 102		5459.92	58.96	-15.04	74	47.31	34.7	12.08	35.13	123	16	P	V
5510MHz		5469.04	66.34	-1.86	68.2	54.68	34.7	12.09	35.13	123	16	P	V
		5459.92	50.65	-3.35	54	39	34.7	12.08	35.13	123	16	A	V
	*	5510	106.48	-	-	94.76	34.7	12.14	35.12	123	16	P	V
	*	5510	98.61	-	-	86.89	34.7	12.14	35.12	123	16	A	V
		5765	50.11	-18.09	68.2	37.77	35.2	12.31	35.17	123	16	P	V
		5443.36	51.71	-22.29	74	40.09	34.7	12.06	35.14	400	42	P	H
		5464.24	55.44	-12.76	68.2	43.79	34.7	12.08	35.13	400	42	P	H
		5453.68	44.2	-9.8	54	32.56	34.7	12.07	35.13	400	42	A	H
	*	5550	105.95	-	-	94.2	34.7	12.18	35.13	400	42	P	H
802.11ax	*	5550	97.76	-	-	86.01	34.7	12.18	35.13	400	42	A	H
HE40 Full		5760.275	49.93	-18.27	68.2	37.59	35.2	12.31	35.17	400	42	P	H
CH 110		5456.08	56.31	-17.69	74	44.67	34.7	12.07	35.13	148	40	P	V
5550MHz		5465.92	58.65	-9.55	68.2	46.99	34.7	12.09	35.13	148	40	P	V
		5454.64	47.33	-6.67	54	35.69	34.7	12.07	35.13	148	40	A	V
	*	5550	111.35	-	-	99.6	34.7	12.18	35.13	148	40	P	V
	*	5550	103.15	-	-	91.4	34.7	12.18	35.13	148	40	A	V
		5759.96	54.1	-14.1	68.2	41.76	35.2	12.31	35.17	148	40	P	V

		5445.2	48.58	-25.42	74	36.98	34.7	12.04	35.14	394	45	P	H
		5467.95	46.84	-21.36	68.2	35.19	34.7	12.08	35.13	394	45	P	H
		5459.9	39.43	-14.57	54	27.8	34.7	12.06	35.13	394	45	A	H
	*	5670	103.23	-	-	91.25	34.78	12.35	35.15	394	45	P	H
802.11ax	*	5670	94.63	-	-	82.65	34.78	12.35	35.15	394	45	A	H
HE40 Full		5726.675	56.87	-11.33	68.2	44.56	35.06	12.41	35.16	394	45	P	H
CH 134		5459.55	48.19	-25.81	74	36.56	34.7	12.06	35.13	103	20	P	V
5670MHz		5465.5	48.82	-19.38	68.2	37.18	34.7	12.07	35.13	103	20	P	V
		5459.9	39.69	-14.31	54	28.06	34.7	12.06	35.13	103	20	A	V
	*	5670	108.46	-	-	96.48	34.78	12.35	35.15	103	20	P	V
	*	5670	99.38	-	-	87.4	34.78	12.35	35.15	103	20	A	V
		5725.275	66.67	-1.53	68.2	54.37	35.05	12.41	35.16	103	20	P	V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	44.81	-29.19	74	46.26	37.96	19.11	58.52	-	-	P	H
		16530	49.28	-18.92	68.2	39.66	41.98	24.28	56.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	44.11	-29.89	74	45.56	37.96	19.11	58.52	-	-	P	V
5510MHz		16530	49.69	-18.51	68.2	40.07	41.98	24.28	56.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11100	44.39	-29.61	74	45.76	37.8	19.18	58.35	-	-	P	H
		16650	48.73	-19.47	68.2	39.1	41.9	24.39	56.66	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	44.29	-29.71	74	45.66	37.8	19.18	58.35	-	-	P	V
5550MHz		16650	48.81	-19.39	68.2	39.18	41.9	24.39	56.66	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11340	44.7	-29.3	74	45.03	38.14	19.38	57.85	-	-	P	H
		17010	49.24	-18.96	68.2	39.53	41.69	24.72	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	44.65	-29.35	74	44.98	38.14	19.38	57.85	-	-	P	V
5670MHz		17010	49.94	-18.26	68.2	40.23	41.69	24.72	56.7	-	-	P	V
													V
													V
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													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5375.68	48.71	-25.29	74	37.27	34.65	11.96	35.17	394	49	P	H
		5467.6	47.82	-20.38	68.2	36.18	34.7	12.07	35.13	394	49	P	H
		5459.44	39.11	-14.89	54	27.48	34.7	12.06	35.13	394	49	A	H
802.11ax	*	5510	98.53	-	-	86.81	34.7	12.14	35.12	394	49	P	H
HE40	*	5510	91.37	-	-	79.65	34.7	12.14	35.12	394	49	A	H
Partial		5735.39	49.07	-19.13	68.2	36.71	35.11	12.42	35.17	394	49	P	H
242/61		5439.04	48.61	-25.39	74	37.02	34.7	12.03	35.14	168	9	P	V
CH 102		5466.4	48.23	-19.97	68.2	36.59	34.7	12.07	35.13	168	9	P	V
5510MHz		5458	39.49	-14.51	54	27.86	34.7	12.06	35.13	168	9	A	V
	*	5510	103.24	-	-	91.52	34.7	12.14	35.12	168	9	P	V
	*	5510	96.09	-	-	84.37	34.7	12.14	35.12	168	9	A	V
		5759.96	48.57	-19.63	68.2	36.1	35.2	12.44	35.17	168	9	P	V
		5441.7	47.68	-26.32	74	36.09	34.7	12.03	35.14	400	50	P	H
		5467.25	46.42	-21.78	68.2	34.78	34.7	12.07	35.13	400	50	P	H
		5459.9	39.02	-14.98	54	27.39	34.7	12.06	35.13	400	50	A	H
802.11ax	*	5670	100.29	-	-	88.31	34.78	12.35	35.15	400	50	P	H
HE40	*	5670	92.93	-	-	80.95	34.78	12.35	35.15	400	50	A	H
Partial		5744.175	49.49	-18.71	68.2	37.07	35.17	12.42	35.17	400	50	P	H
242/62		5429.8	47.86	-26.14	74	36.28	34.7	12.02	35.14	104	39	P	V
CH 134		5468.65	47.68	-20.52	68.2	36.03	34.7	12.08	35.13	104	39	P	V
5670MHz		5458.85	39.13	-14.87	54	27.5	34.7	12.06	35.13	104	39	A	V
	*	5670	106.96	-	-	94.98	34.78	12.35	35.15	104	39	P	V
	*	5670	97.97	-	-	85.99	34.78	12.35	35.15	104	39	A	V
		5732.275	57	-11.2	68.2	44.67	35.09	12.41	35.17	104	39	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5430.64	59.32	-14.68	74	47.74	34.7	12.02	35.14	389	40	P	H
		5465.2	51.08	-17.12	68.2	39.44	34.7	12.07	35.13	389	40	P	H
		5456.56	43.97	-10.03	54	32.34	34.7	12.06	35.13	389	40	A	H
	*	5530	97.68	-	-	85.94	34.7	12.17	35.13	389	40	P	H
802.11ax	*	5530	89.84	-	-	78.1	34.7	12.17	35.13	389	40	A	H
HE80 Full		5737.28	52.09	-16.11	68.2	39.72	35.12	12.42	35.17	389	40	P	H
CH 106		5459.92	65.21	-8.79	74	53.58	34.7	12.06	35.13	108	18	P	V
5530MHz		5468.8	66.62	-1.58	68.2	54.97	34.7	12.08	35.13	108	18	P	V
		5459.44	47.12	-6.88	54	35.49	34.7	12.06	35.13	108	18	A	V
	*	5530	101.79	-	-	90.05	34.7	12.17	35.13	108	18	P	V
	*	5530	94.18	-	-	82.44	34.7	12.17	35.13	108	18	A	V
		5756.81	54.15	-14.05	68.2	41.68	35.2	12.44	35.17	108	18	P	V
		5425.95	56.68	-17.32	74	45.11	34.7	12.01	35.14	394	41	P	H
		5460.95	49.35	-18.85	68.2	37.72	34.7	12.06	35.13	394	41	P	H
		5452.2	40.58	-13.42	54	28.96	34.7	12.05	35.13	394	41	A	H
	*	5610	97.51	-	-	85.66	34.7	12.29	35.14	394	41	P	H
802.11ax	*	5610	89.89	-	-	78.04	34.7	12.29	35.14	394	41	A	H
HE80 Full		5753.45	57.96	-10.24	68.2	45.5	35.2	12.43	35.17	394	41	P	H
CH 122		5424.9	59.98	-14.02	74	48.41	34.7	12.01	35.14	100	19	P	V
5610MHz		5463.75	60.08	-8.12	68.2	48.44	34.7	12.07	35.13	100	19	P	V
		5459.9	43.49	-10.51	54	31.86	34.7	12.06	35.13	100	19	A	V
	*	5610	102.97	-	-	91.12	34.7	12.29	35.14	100	19	P	V
	*	5610	95.01	-	-	83.16	34.7	12.29	35.14	100	19	A	V
		5725.8	64.7	-3.5	68.2	52.4	35.05	12.41	35.16	100	19	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	43.81	-30.19	74	45.23	37.88	19.14	58.44	-	-	P	H
		16590	48.21	-19.99	68.2	38.79	41.74	24.33	56.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	44.29	-29.71	74	45.71	37.88	19.14	58.44	-	-	P	V
5530MHz		16590	47.52	-20.68	68.2	38.1	41.74	24.33	56.65	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11220	44.31	-29.69	74	45.19	37.94	19.28	58.1	-	-	P	H
		16830	49.55	-18.65	68.2	39.49	42.2	24.55	56.69	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	44.82	-29.18	74	45.7	37.94	19.28	58.1	-	-	P	V
5610MHz		16830	49.91	-18.29	68.2	39.85	42.2	24.55	56.69	-	-	P	V
													V
													V
													V
													V
													V
													V
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													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5406.88	49.04	-24.96	74	37.52	34.7	11.98	35.16	400	42	P	H
		5469.76	47.49	-20.71	68.2	35.84	34.7	12.08	35.13	400	42	P	H
		5456.32	38.76	-15.24	54	27.13	34.7	12.06	35.13	400	42	A	H
802.11ax	*	5530	96.14	-	-	84.4	34.7	12.17	35.13	400	42	P	H
HE80	*	5530	87.84	-	-	76.1	34.7	12.17	35.13	400	42	A	H
Partial		5746.1	48.96	-19.24	68.2	36.52	35.18	12.43	35.17	400	42	P	H
484/65		5434.72	52.31	-21.69	74	40.73	34.7	12.02	35.14	208	21	P	V
CH 106		5460.64	55.21	-12.99	68.2	43.58	34.7	12.06	35.13	208	21	P	V
5530MHz		5459.68	39.49	-14.51	54	27.86	34.7	12.06	35.13	208	21	A	V
	*	5530	102.32	-	-	90.58	34.7	12.17	35.13	208	21	P	V
	*	5530	94.54	-	-	82.8	34.7	12.17	35.13	208	21	A	V
		5760.275	50.07	-18.13	68.2	37.6	35.2	12.44	35.17	208	21	P	V
		5438.2	47.46	-26.54	74	35.87	34.7	12.03	35.14	400	49	P	H
		5466.55	46.72	-21.48	68.2	35.08	34.7	12.07	35.13	400	49	P	H
		5459.9	38.79	-15.21	54	27.16	34.7	12.06	35.13	400	49	A	H
802.11ax	*	5610	96.84	-	-	84.99	34.7	12.29	35.14	400	49	P	H
HE80	*	5610	89.55	-	-	77.7	34.7	12.29	35.14	400	49	A	H
Partial		5759.75	48.87	-19.33	68.2	36.4	35.2	12.44	35.17	400	49	P	H
484/66		5404.25	50.41	-23.59	74	38.89	34.7	11.98	35.16	191	27	P	V
CH 122		5461.65	48.1	-20.1	68.2	36.46	34.7	12.07	35.13	191	27	P	V
5610MHz		5453.6	39.32	-14.68	54	27.7	34.7	12.05	35.13	191	27	A	V
	*	5610	103.82	-	-	91.97	34.7	12.29	35.14	191	27	P	V
	*	5610	95.05	-	-	83.2	34.7	12.29	35.14	191	27	A	V
		5746.1	51.64	-16.56	68.2	39.2	35.18	12.43	35.17	191	27	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 114 5570MHz		5445.52	55.89	-18.11	74	44.27	34.7	12.06	35.14	394	35	P	H
		5462.56	56.86	-11.34	68.2	45.21	34.7	12.08	35.13	394	35	P	H
		5444.32	48.07	-5.93	54	36.45	34.7	12.06	35.14	394	35	A	H
	*	5570	94.81	-	-	83.03	34.7	12.21	35.13	394	35	P	H
	*	5570	88.37	-	-	76.59	34.7	12.21	35.13	394	35	A	H
		5733.5	52.31	-15.89	68.2	40.08	35.1	12.3	35.17	394	35	P	H
		5453.68	60.9	-13.1	74	49.26	34.7	12.07	35.13	135	27	P	V
		5462.32	60.55	-7.65	68.2	48.9	34.7	12.08	35.13	135	27	P	V
		5453.2	52.92	-1.08	54	41.28	34.7	12.07	35.13	135	27	A	V
	*	5570	102.03	-	-	90.25	34.7	12.21	35.13	135	27	P	V
	*	5570	93.47	-	-	81.69	34.7	12.21	35.13	135	27	A	V
		5725.31	58.4	-9.8	68.2	46.21	35.05	12.3	35.16	135	27	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11140	43.85	-30.15	74	45.07	37.84	19.21	58.27	-	-	P	H
		16710	48.42	-19.78	68.2	38.53	42.11	24.45	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 114		11140	44.03	-29.97	74	45.25	37.84	19.21	58.27	-	-	P	V
5570MHz		16710	48.54	-19.66	68.2	38.65	42.11	24.45	56.67	-	-	P	V
													V
													V
													V
													V
													V
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													V
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													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		5403.04	49.61	-24.39	74	38.1	34.7	11.97	35.16	400	48	P	H
		5461.84	45.78	-22.42	68.2	34.14	34.7	12.07	35.13	400	48	P	H
		5448.16	38.93	-15.07	54	27.33	34.7	12.04	35.14	400	48	A	H
	*	5570	91.9	-	-	80.1	34.7	12.23	35.13	400	48	P	H
	*	5570	83.98	-	-	72.18	34.7	12.23	35.13	400	48	A	H
		5757.44	47.44	-20.76	68.2	34.97	35.2	12.44	35.17	400	48	P	H
		5369.44	52.43	-21.57	74	41.02	34.64	11.95	35.18	202	22	P	V
		5468.56	47.85	-20.35	68.2	36.2	34.7	12.08	35.13	202	22	P	V
		5450.8	40.03	-13.97	54	28.41	34.7	12.05	35.13	202	22	A	V
	*	5570	97.95	-	-	86.15	34.7	12.23	35.13	202	22	P	V
	*	5570	90.1	-	-	78.3	34.7	12.23	35.13	202	22	A	V
		5726.885	59.48	-8.72	68.2	47.17	35.06	12.41	35.16	202	22	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5439.7	48.58	-25.42	74	36.99	34.7	12.03	35.14	139	337	P	H
		5465.83	47.92	-20.28	68.2	36.28	34.7	12.07	35.13	139	337	P	H
		5459.2	38.77	-15.23	54	27.14	34.7	12.06	35.13	139	337	A	H
	*	5720	106.08	-	-	93.82	35.02	12.4	35.16	139	337	P	H
	*	5720	99.09	-	-	86.83	35.02	12.4	35.16	139	337	A	H
		5888	49.87	-18.33	68.2	37.32	35.2	12.54	35.19	139	337	P	H
		5412.4	47.9	-26.1	74	36.37	34.7	11.99	35.16	144	35	P	V
		5466.61	47.85	-20.35	68.2	36.21	34.7	12.07	35.13	144	35	P	V
		5458.42	38.83	-15.17	54	27.2	34.7	12.06	35.13	144	35	A	V
	*	5720	111.96	-	-	99.7	35.02	12.4	35.16	144	35	P	V
	*	5720	104.72	-	-	92.46	35.02	12.4	35.16	144	35	A	V
		5850.5	49.8	-18.4	68.2	37.27	35.2	12.51	35.18	144	35	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	44.91	-29.09	74	44.93	38.16	19.46	57.64	-	-	P	H
		17160	49.88	-18.32	68.2	40.04	41.54	24.87	56.57	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	44.72	-29.28	74	44.74	38.16	19.46	57.64	-	-	P	V
		17160	50.07	-18.13	68.2	40.23	41.54	24.87	56.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5355.07	47.72	-26.28	74	36.35	34.61	11.94	35.18	138	337	P	H
		5462.32	46.58	-21.62	68.2	34.94	34.7	12.07	35.13	138	337	P	H
		5459.59	38.73	-15.27	54	27.1	34.7	12.06	35.13	138	337	A	H
	*	5720	106.87	-	-	94.61	35.02	12.4	35.16	138	337	P	H
802.11ax	*	5720	98.87	-	-	86.61	35.02	12.4	35.16	138	337	A	H
HE20 Full		5872.75	52.97	-15.23	68.2	40.43	35.2	12.53	35.19	138	337	P	H
CH 144		5426.44	48.24	-25.76	74	36.67	34.7	12.01	35.14	114	36	P	V
5720MHz		5467	46.73	-21.47	68.2	35.09	34.7	12.07	35.13	114	36	P	V
		5459.2	38.85	-15.15	54	27.22	34.7	12.06	35.13	114	36	A	V
	*	5720	113.06	-	-	100.8	35.02	12.4	35.16	114	36	P	V
	*	5720	104.48	-	-	92.22	35.02	12.4	35.16	114	36	A	V
		5857.75	53.74	-14.46	68.2	41.2	35.2	12.52	35.18	114	36	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	44.74	-29.26	74	44.76	38.16	19.46	57.64	-	-	P	H
		17160	49.92	-18.28	68.2	40.08	41.54	24.87	56.57	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	44.44	-29.56	74	44.46	38.16	19.46	57.64	-	-	P	V
5720MHz		17160	50.45	-17.75	68.2	40.61	41.54	24.87	56.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 142 5710MHz		5457.64	47.98	-26.02	74	36.35	34.7	12.06	35.13	133	340	P	H
		5460.76	48.75	-19.45	68.2	37.12	34.7	12.06	35.13	133	340	P	H
		5458.81	39.44	-14.56	54	27.81	34.7	12.06	35.13	133	340	A	H
	*	5710	103.02	-	-	90.83	34.96	12.39	35.16	133	340	P	H
	*	5710	94.54	-	-	82.35	34.96	12.39	35.16	133	340	A	H
		5859.5	62.21	-5.99	68.2	49.68	35.2	12.52	35.19	133	340	P	H
		5452.57	53.33	-20.67	74	41.71	34.7	12.05	35.13	108	38	P	V
		5461.93	54.57	-13.63	68.2	42.93	34.7	12.07	35.13	108	38	P	V
		5452.18	41.51	-12.49	54	29.89	34.7	12.05	35.13	108	38	A	V
	*	5710	107.96	-	-	95.77	34.96	12.39	35.16	108	38	P	V
	*	5710	100.36	-	-	88.17	34.96	12.39	35.16	108	38	A	V
		5851.75	66.58	-1.62	68.2	54.05	35.2	12.51	35.18	108	38	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	44.14	-29.86	74	44.21	38.18	19.44	57.69	-	-	P	H
		17130	49.78	-18.42	68.2	39.97	41.57	24.84	56.6	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	45.62	-28.38	74	45.69	38.18	19.44	57.69	-	-	P	V
5710MHz		17130	49.4	-18.8	68.2	39.59	41.57	24.84	56.6	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 Straddle Channel

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 138 5690MHz		5447.11	57.77	-16.23	74	46.17	34.7	12.04	35.14	128	326	P	H
		5468.95	54.31	-13.89	68.2	42.66	34.7	12.08	35.13	128	326	P	H
		5451.79	44.75	-9.25	54	33.13	34.7	12.05	35.13	128	326	A	H
	*	5690	98.15	-	-	86.08	34.86	12.37	35.16	128	326	P	H
	*	5690	89.95	-	-	77.88	34.86	12.37	35.16	128	326	A	H
		5854.6	59.12	-9.08	68.2	46.58	35.2	12.52	35.18	128	326	P	H
		5439.7	63.42	-10.58	74	51.83	34.7	12.03	35.14	110	34	P	V
		5464.66	59.2	-9	68.2	47.56	34.7	12.07	35.13	110	34	P	V
		5459.2	49.39	-4.61	54	37.76	34.7	12.06	35.13	110	34	A	V
	*	5690	104.79	-	-	92.72	34.86	12.37	35.16	110	34	P	V
	*	5690	96.17	-	-	84.1	34.86	12.37	35.16	110	34	A	V
		5853.4	65.99	-2.21	68.2	53.46	35.2	12.51	35.18	110	34	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	44.45	-29.55	74	44.63	38.18	19.41	57.77	-	-	P	H
		17070	49.27	-18.93	68.2	39.51	41.63	24.78	56.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	43.66	-30.34	74	43.84	38.18	19.41	57.77	-	-	P	V
5690MHz		17070	49.1	-19.1	68.2	39.34	41.63	24.78	56.65	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
9+8		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full LF		30.54	22.65	-17.35	40	27.59	24.17	0.92	30.03	-	-	P	H
		91.02	27.19	-16.31	43.5	40.84	14.73	1.61	29.99	-	-	P	H
		133.14	28.23	-15.27	43.5	38.74	17.51	1.96	29.98	-	-	P	H
		868.4	30.98	-15.02	46	26.67	28.81	4.63	29.13	-	-	P	H
		898.5	31.56	-14.44	46	27.21	28.61	4.66	28.92	-	-	P	H
		940.5	33.18	-12.82	46	27.35	29.75	4.83	28.75	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.65	-6.35	40	38.21	24.57	0.9	30.03	-	-	P	V
		35.13	30.16	-9.84	40	37.14	21.95	1.09	30.02	-	-	P	V
		39.18	29.17	-10.83	40	38.21	19.85	1.13	30.02	-	-	P	V
		881	31.03	-14.97	46	26.73	28.7	4.64	29.04	-	-	P	V
		933.5	31.44	-14.56	46	26.1	29.32	4.8	28.78	-	-	P	V
		959.4	32.48	-13.52	46	25.44	30.8	4.91	28.67	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

<TXBF Mode>

<Sample 2>

Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
9+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5149.5	54.23	-19.77	74	43.62	34.1	11.79	35.28	365	4	P	H
		5150	47.84	-6.16	54	37.23	34.1	11.79	35.28	365	4	A	H
	*	5180	109	-	-	98.22	34.22	11.83	35.27	365	4	P	H
	*	5180	100.49	-	-	89.71	34.22	11.83	35.27	365	4	A	H
802.11ax													H
HE20 Full													H
CH 36		5147.42	57.02	-16.98	74	46.41	34.1	11.79	35.28	100	262	P	V
5180MHz		5150	44.9	-9.1	54	34.29	34.1	11.79	35.28	100	262	A	V
	*	5180	107.12	-	-	96.34	34.22	11.83	35.27	100	262	P	V
	*	5180	98.33	-	-	87.55	34.22	11.83	35.27	100	262	A	V
													V
													V
		5146.12	50.21	-23.79	74	39.6	34.1	11.79	35.28	400	6	P	H
		5072.54	41.84	-12.16	54	31.4	34.05	11.7	35.31	400	6	A	H
	*	5220	114.35	-	-	103.36	34.38	11.86	35.25	400	6	P	H
	*	5220	105.23	-	-	94.24	34.38	11.86	35.25	400	6	A	H
802.11ax		5355.28	48.92	-25.08	74	37.55	34.61	11.94	35.18	400	6	P	H
HE20 Full		5355	40.48	-13.52	54	29.11	34.61	11.94	35.18	400	6	A	H
CH 44		5051.74	50.53	-23.47	74	40.18	34	11.68	35.33	100	260	P	V
5220MHz		5131.04	41.95	-12.05	54	31.37	34.1	11.77	35.29	100	260	A	V
	*	5220	109.29	-	-	98.3	34.38	11.86	35.25	100	260	P	V
	*	5220	100.76	-	-	89.77	34.38	11.86	35.25	100	260	A	V
		5454.12	48.9	-25.1	74	37.28	34.7	12.05	35.13	100	260	P	V
		5447.4	40.48	-13.52	54	28.88	34.7	12.04	35.14	100	260	A	V

		5150	57.72	-16.28	74	47.11	34.1	11.79	35.28	393	6	P	H
		5150	47.98	-6.02	54	37.37	34.1	11.79	35.28	393	6	A	H
	*	5240	113.74	-	-	102.65	34.46	11.87	35.24	393	6	P	H
	*	5240	105.9	-	-	94.81	34.46	11.87	35.24	393	6	A	H
802.11ax		5350.8	53.45	-20.55	74	42.09	34.6	11.94	35.18	393	6	P	H
HE20 Full		5350.8	43.96	-10.04	54	32.6	34.6	11.94	35.18	393	6	A	H
CH 48		5140.14	51.35	-22.65	74	40.76	34.1	11.78	35.29	100	240	P	V
5240MHz		5149.76	42.32	-11.68	54	31.71	34.1	11.79	35.28	100	240	A	V
	*	5240	110.19	-	-	99.1	34.46	11.87	35.24	100	240	P	V
	*	5240	101.02	-	-	89.93	34.46	11.87	35.24	100	240	A	V
		5353.32	49.89	-24.11	74	38.52	34.61	11.94	35.18	100	240	P	V
		5350.52	40.46	-13.54	54	29.1	34.6	11.94	35.18	100	240	A	V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	44.81	-23.39	68.2	48.23	37.32	18.57	59.31	-	-	P	H
		15540	46.81	-27.19	74	40.51	40.2	23.33	57.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	44.97	-23.23	68.2	48.39	37.32	18.57	59.31	-	-	P	V
5180MHz		15540	46.02	-27.98	74	39.72	40.2	23.33	57.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10440	46.25	-21.95	68.2	49.3	37.52	18.64	59.21	-	-	P	H
		15660	46.26	-27.74	74	39.61	40.32	23.45	57.12	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	46.78	-21.42	68.2	49.83	37.52	18.64	59.21	-	-	P	V
5220MHz		15660	46.97	-27.03	74	40.32	40.32	23.45	57.12	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	47	-21.2	68.2	49.85	37.64	18.67	59.16	-	-	P	H
		15720	47.54	-26.46	74	40.65	40.46	23.5	57.07	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	48.12	-20.08	68.2	50.97	37.64	18.67	59.16	-	-	P	V
5240MHz		15720	48.06	-25.94	74	41.17	40.46	23.5	57.07	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5147.68	58.82	-15.18	74	48.21	34.1	11.79	35.28	386	3	P	H
		5150	51.36	-2.64	54	40.75	34.1	11.79	35.28	386	3	A	H
	*	5190	104.69	-	-	93.86	34.26	11.84	35.27	386	3	P	H
	*	5190	95.76	-	-	84.93	34.26	11.84	35.27	386	3	A	H
802.11ax		5387.2	48.13	-25.87	74	36.67	34.67	11.96	35.17	386	3	P	H
HE40 Full		5446.56	39.82	-14.18	54	28.22	34.7	12.04	35.14	386	3	A	H
CH 38		5131.82	48.51	-25.49	74	37.93	34.1	11.77	35.29	100	241	P	V
5190MHz		5145.08	42.04	-11.96	54	31.43	34.1	11.79	35.28	100	241	A	V
	*	5188	101.82	-	-	91	34.25	11.84	35.27	100	241	P	V
		5427.8	48.8	-25.2	74	37.23	34.7	12.01	35.14	100	241	P	V
		5459.72	39.78	-14.22	54	28.15	34.7	12.06	35.13	100	241	A	V
													V
		5149.76	61.45	-12.55	74	50.84	34.1	11.79	35.28	396	4	P	H
		5150	50.99	-3.01	54	40.38	34.1	11.79	35.28	396	4	A	H
	*	5230	111.95	-	-	100.9	34.42	11.87	35.24	396	4	P	H
	*	5230	103.22	-	-	92.17	34.42	11.87	35.24	396	4	A	H
802.11ax		5353.88	56.91	-17.09	74	45.54	34.61	11.94	35.18	396	4	P	H
HE40 Full		5353.88	46.41	-7.59	54	35.04	34.61	11.94	35.18	396	4	A	H
CH 46		5149.24	55.25	-18.75	74	44.64	34.1	11.79	35.28	100	242	P	V
5230MHz		5150	45.66	-8.34	54	35.05	34.1	11.79	35.28	100	242	A	V
	*	5230	106.61	-	-	95.56	34.42	11.87	35.24	100	242	P	V
	*	5230	98.16	-	-	87.11	34.42	11.87	35.24	100	242	A	V
		5373.2	49.92	-24.08	74	38.5	34.65	11.95	35.18	100	242	P	V
		5351.08	40.5	-13.5	54	29.14	34.6	11.94	35.18	100	242	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	45.33	-22.87	68.2	48.66	37.36	18.59	59.28	-	-	P	H
		15570	47.33	-26.67	74	40.97	40.2	23.36	57.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	45.09	-23.11	68.2	48.42	37.36	18.59	59.28	-	-	P	V
5190MHz		15570	47.8	-26.2	74	41.44	40.2	23.36	57.2	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10460	45.22	-22.98	68.2	48.18	37.58	18.65	59.19	-	-	P	H
		15690	47.57	-26.43	74	40.81	40.38	23.48	57.1	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	48.28	-19.92	68.2	51.24	37.58	18.65	59.19	-	-	P	V
5230MHz		15690	48.45	-25.55	74	41.69	40.38	23.48	57.1	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.5	55.99	-18.01	74	45.38	34.1	11.79	35.28	400	3	P	H
		5149.76	49.3	-4.7	54	38.69	34.1	11.79	35.28	400	3	A	H
	*	5210	104.37	-	-	93.42	34.34	11.86	35.25	400	3	P	H
	*	5210	96.19	-	-	85.24	34.34	11.86	35.25	400	3	A	H
802.11ax		5362.28	49.91	-24.09	74	38.52	34.62	11.95	35.18	400	3	P	H
HE80 Full		5351.36	42.45	-11.55	54	31.09	34.6	11.94	35.18	400	3	A	H
CH 42		5149.24	58.54	-15.46	74	47.93	34.1	11.79	35.28	100	261	P	V
5210MHz		5150	48.94	-5.06	54	38.33	34.1	11.79	35.28	100	261	A	V
	*	5210	100.61	-	-	89.66	34.34	11.86	35.25	100	261	P	V
	*	5210	92.52	-	-	81.57	34.34	11.86	35.25	100	261	A	V
		5350.24	50.91	-23.09	74	39.55	34.6	11.94	35.18	100	261	P	V
		5351.08	41	-13	54	29.64	34.6	11.94	35.18	100	261	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	45.92	-22.28	68.2	49.08	37.46	18.62	59.24	-	-	P	H
		15630	46.86	-27.14	74	40.33	40.26	23.42	57.15	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	45.19	-23.01	68.2	48.35	37.46	18.62	59.24	-	-	P	V
5210MHz		15630	45.91	-28.09	74	39.38	40.26	23.42	57.15	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 - 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5026.25	49.59	-24.41	74	39.23	34.05	11.65	35.34	393	0	P	H
		5105.35	41.94	-12.06	54	31.4	34.1	11.74	35.3	393	0	A	H
	*	5260	113.28	-	-	102.1	34.52	11.89	35.23	393	0	P	H
	*	5260	104.04	-	-	92.86	34.52	11.89	35.23	393	0	A	H
802.11ax		5361.12	49.69	-24.31	74	38.3	34.62	11.95	35.18	393	0	P	H
HE20 Full		5350.32	42.17	-11.83	54	30.81	34.6	11.94	35.18	393	0	A	H
CH 52		5108.5	48.74	-25.26	74	38.2	34.1	11.74	35.3	100	267	P	V
5260MHz		5147	40.83	-13.17	54	30.22	34.1	11.79	35.28	100	267	A	V
	*	5260	109.31	-	-	98.13	34.52	11.89	35.23	100	267	P	V
	*	5260	100.63	-	-	89.45	34.52	11.89	35.23	100	267	A	V
		5442.48	47.81	-26.19	74	36.21	34.7	12.04	35.14	100	267	P	V
		5350.32	41.72	-12.28	54	30.36	34.6	11.94	35.18	100	267	A	V
		5142.1	50.32	-23.68	74	39.73	34.1	11.78	35.29	385	6	P	H
		5149.1	42.22	-11.78	54	31.61	34.1	11.79	35.28	385	6	A	H
	*	5300	113.41	-	-	102.1	34.6	11.91	35.2	385	6	P	H
	*	5300	104.41	-	-	93.1	34.6	11.91	35.2	385	6	A	H
802.11ax		5350.08	54.22	-19.78	74	42.86	34.6	11.94	35.18	385	6	P	H
HE20 Full		5350.32	43.76	-10.24	54	32.4	34.6	11.94	35.18	385	6	A	H
CH 60		5063.35	48.74	-25.26	74	38.35	34.03	11.69	35.33	100	251	P	V
5300MHz		5147	40.79	-13.21	54	30.18	34.1	11.79	35.28	100	251	A	V
	*	5300	108.38	-	-	97.07	34.6	11.91	35.2	100	251	P	V
	*	5300	99.41	-	-	88.1	34.6	11.91	35.2	100	251	A	V
		5359.2	53.43	-20.57	74	42.04	34.62	11.95	35.18	100	251	P	V
		5350.32	43.52	-10.48	54	32.16	34.6	11.94	35.18	100	251	A	V

	*	5320	111.82	-	-	100.5	34.6	11.92	35.2	380	4	P	H
	*	5320	103.52	-	-	92.2	34.6	11.92	35.2	380	4	A	H
		5352.16	59.78	-14.22	74	48.42	34.6	11.94	35.18	380	4	P	H
		5350.56	52.5	-1.5	54	41.14	34.6	11.94	35.18	380	4	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	108.86	-	-	97.54	34.6	11.92	35.2	100	266	P	V
5320MHz	*	5320	100.42	-	-	89.1	34.6	11.92	35.2	100	266	A	V
		5350.88	58.63	-15.37	74	47.27	34.6	11.94	35.18	100	266	P	V
		5350.08	51.44	-2.56	54	40.08	34.6	11.94	35.18	100	266	A	V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	43.88	-24.32	68.2	46.63	37.66	18.71	59.12	-	-	P	H
		15780	47.38	-26.62	74	40.2	40.64	23.56	57.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	44.54	-23.66	68.2	47.29	37.66	18.71	59.12	-	-	P	V
5260MHz		15780	47.23	-26.77	74	40.05	40.64	23.56	57.02	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10600	46.39	-27.61	74	49.14	37.5	18.77	59.02	-	-	P	H
		15900	48.97	-25.03	74	41.31	40.9	23.68	56.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	45.68	-28.32	74	48.43	37.5	18.77	59.02	-	-	P	V
5300MHz		15900	48.18	-25.82	74	40.52	40.9	23.68	56.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10640	46.3	-27.7	74	48.98	37.5	18.8	58.98	-	-	P	H
		15960	46.57	-27.43	74	38.72	40.96	23.75	56.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		10640	45.83	-28.17	74	48.51	37.5	18.8	58.98	-	-	P	V
5320MHz		15960	47.19	-26.81	74	39.34	40.96	23.75	56.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5139.65	52.07	-21.93	74	41.48	34.1	11.78	35.29	283	360	P	H
		5106.75	42.92	-11.08	54	32.38	34.1	11.74	35.3	283	360	A	H
	*	5270	110.21	-	-	99.01	34.54	11.89	35.23	283	360	P	H
	*	5270	101.1	-	-	89.9	34.54	11.89	35.23	283	360	A	H
802.11ax		5350.8	56.78	-17.22	74	45.42	34.6	11.94	35.18	283	360	P	H
HE40 Full		5350.08	48.78	-5.22	54	37.42	34.6	11.94	35.18	283	360	A	H
CH 54		5148.75	51.16	-22.84	74	40.55	34.1	11.79	35.28	100	241	P	V
5270MHz		5148.75	41.69	-12.31	54	31.08	34.1	11.79	35.28	100	241	A	V
	*	5270	107.8	-	-	96.6	34.54	11.89	35.23	100	241	P	V
	*	5270	97.6	-	-	86.4	34.54	11.89	35.23	100	241	A	V
		5352	53.49	-20.51	74	42.13	34.6	11.94	35.18	100	241	P	V
		5350.32	47.35	-6.65	54	35.99	34.6	11.94	35.18	100	241	A	V
		5145.6	51.31	-22.69	74	40.7	34.1	11.79	35.28	278	360	P	H
		5145.6	42.27	-11.73	54	31.66	34.1	11.79	35.28	278	360	A	H
	*	5310	106.65	-	-	95.33	34.6	11.92	35.2	278	360	P	H
	*	5310	97.46	-	-	86.14	34.6	11.92	35.2	278	360	A	H
802.11ax		5356.8	63.06	-10.94	74	51.69	34.61	11.94	35.18	278	360	P	H
HE40 Full		5351.28	51.91	-2.09	54	40.55	34.6	11.94	35.18	278	360	A	H
CH 62		5148.05	48.64	-25.36	74	38.03	34.1	11.79	35.28	100	268	P	V
5310MHz		5149.1	40.49	-13.51	54	29.88	34.1	11.79	35.28	100	268	A	V
	*	5310	102.11	-	-	90.79	34.6	11.92	35.2	100	268	P	V
	*	5310	93.81	-	-	82.49	34.6	11.92	35.2	100	268	A	V
		5350.32	56.63	-17.37	74	45.27	34.6	11.94	35.18	100	268	P	V
		5351.28	48.74	-5.26	54	37.38	34.6	11.94	35.18	100	268	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	45.07	-23.13	68.2	47.82	37.62	18.72	59.09	-	-	P	H
		15810	47.95	-26.05	74	40.63	40.72	23.59	56.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	45.59	-22.61	68.2	48.34	37.62	18.72	59.09	-	-	P	V
5270MHz		15810	47.09	-26.91	74	39.77	40.72	23.59	56.99	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10620	45.6	-28.4	74	48.31	37.5	18.79	59	-	-	P	H
		15930	47.75	-26.25	74	39.99	40.93	23.72	56.89	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		10620	46.9	-27.1	74	49.61	37.5	18.79	59	-	-	P	V
5310MHz		15930	48.14	-25.86	74	40.38	40.93	23.72	56.89	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 58 5290MHz		5125.65	52.14	-21.86	74	41.57	34.1	11.76	35.29	278	360	P	H
		5135.8	43.22	-10.78	54	32.63	34.1	11.78	35.29	278	360	A	H
	*	5290	101.67	-	-	90.41	34.58	11.9	35.22	278	360	P	H
	*	5290	93.35	-	-	82.09	34.58	11.9	35.22	278	360	A	H
		5354.4	58.49	-15.51	74	47.12	34.61	11.94	35.18	278	360	P	H
		5380.08	49.17	-4.83	54	37.72	34.66	11.96	35.17	278	360	A	H
		5089.95	49.79	-24.21	74	39.3	34.08	11.72	35.31	100	238	P	V
		5148.75	41.04	-12.96	54	30.43	34.1	11.79	35.28	100	238	A	V
	*	5290	98.89	-	-	87.63	34.58	11.9	35.22	100	238	P	V
	*	5290	92.67	-	-	81.41	34.58	11.9	35.22	100	238	A	V
		5352.24	56.1	-17.9	74	44.74	34.6	11.94	35.18	100	238	P	V
		5366.88	46.74	-7.26	54	35.34	34.63	11.95	35.18	100	238	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	44.83	-23.37	68.2	47.58	37.54	18.76	59.05	-	-	P	H
		15870	47.98	-26.02	74	40.42	40.84	23.66	56.94	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	44.02	-24.18	68.2	46.77	37.54	18.76	59.05	-	-	P	V
5290MHz		15870	47.66	-26.34	74	40.1	40.84	23.66	56.94	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		5046.2	64.62	-9.38	74	54.27	34.01	11.67	35.33	400	0	P	H
		5045.85	50.82	-3.18	54	40.47	34.01	11.67	35.33	400	0	A	H
	*	5250	99.25	-	-	88.1	34.5	11.88	35.23	400	0	P	H
	*	5250	91.43	-	-	80.28	34.5	11.88	35.23	400	0	A	H
		5400	62.75	-11.25	74	51.24	34.7	11.97	35.16	400	0	P	H
		5395.68	49.6	-4.4	54	38.11	34.69	11.97	35.17	400	0	A	H
		5124.95	58.57	-15.43	74	48	34.1	11.76	35.29	100	241	P	V
		5116.2	50.15	-3.85	54	39.6	34.1	11.75	35.3	100	241	A	V
	*	5250	99.25	-	-	88.1	34.5	11.88	35.23	100	241	P	V
	*	5250	92.95	-	-	81.8	34.5	11.88	35.23	100	241	A	V
		5395.92	62.55	-11.45	74	51.06	34.69	11.97	35.17	100	241	P	V
		5406.24	50.07	-3.93	54	38.55	34.7	11.98	35.16	100	241	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10500	44.37	-23.83	68.2	47.12	37.7	18.69	59.14	100	0	P	H
		15750	47.83	-26.17	74	40.79	40.55	23.53	57.04	100	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		10500	45.09	-23.11	68.2	47.84	37.7	18.69	59.14	100	0	P	V
5250MHz		15750	48.46	-25.54	74	41.42	40.55	23.53	57.04	100	0	P	V
													V
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													V
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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.56	58.8	-15.2	74	47.17	34.7	12.06	35.13	279	354	P	H
		5466.48	59.62	-8.58	68.2	47.98	34.7	12.07	35.13	279	354	P	H
		5459.44	47.37	-6.63	54	35.74	34.7	12.06	35.13	279	354	A	H
	*	5500	111.34	-	-	99.64	34.7	12.12	35.12	279	354	P	H
802.11ax	*	5500	103.73	-	-	92.03	34.7	12.12	35.12	279	354	A	H
HE20 Full		5458.16	54.96	-19.04	74	43.33	34.7	12.06	35.13	100	284	P	V
CH 100		5466	59.43	-8.77	68.2	47.79	34.7	12.07	35.13	100	284	P	V
5500MHz		5460	45.53	-8.47	54	33.9	34.7	12.06	35.13	100	284	A	V
	*	5500	106.43	-	-	94.73	34.7	12.12	35.12	100	284	P	V
	*	5500	98.09	-	-	86.39	34.7	12.12	35.12	100	284	A	V
													V
													V
		5421.76	48.21	-25.79	74	36.67	34.7	12	35.16	261	356	P	H
		5460.64	50.05	-18.15	68.2	38.42	34.7	12.06	35.13	261	356	P	H
		5425.6	41.37	-12.63	54	29.8	34.7	12.01	35.14	261	356	A	H
	*	5580	113.07	-	-	101.26	34.7	12.25	35.14	261	356	P	H
802.11ax	*	5580	104.88	-	-	93.07	34.7	12.25	35.14	261	356	A	H
HE20 Full		5756.18	48.85	-19.35	68.2	36.38	35.2	12.44	35.17	261	356	P	H
CH 116		5421.28	48.98	-25.02	74	37.44	34.7	12	35.16	100	300	P	V
5580MHz		5467.36	47.59	-20.61	68.2	35.95	34.7	12.07	35.13	100	300	P	V
		5417.2	40.43	-13.57	54	28.89	34.7	12	35.16	100	300	A	V
	*	5580	107.9	-	-	96.09	34.7	12.25	35.14	100	300	P	V
	*	5580	99.2	-	-	87.39	34.7	12.25	35.14	100	300	A	V
		5752.4	48.14	-20.06	68.2	35.68	35.2	12.43	35.17	100	300	P	V

	*	5700	109.23	-	-	97.11	34.9	12.38	35.16	239	357	P	H
	*	5700	101.75	-	-	89.63	34.9	12.38	35.16	239	357	A	H
		5726.44	63.92	-4.28	68.2	51.61	35.06	12.41	35.16	239	357	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	106.77	-	-	94.65	34.9	12.38	35.16	100	301	P	V
5700MHz	*	5700	98.3	-	-	86.18	34.9	12.38	35.16	100	301	A	V
		5725.64	59.15	-9.05	68.2	46.85	35.05	12.41	35.16	100	301	P	V
													V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	45.9	-28.1	74	47.36	38	19.1	58.56	-	-	P	H
		16500	49.98	-18.22	68.2	40.27	42.1	24.25	56.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	47.09	-26.91	74	48.55	38	19.1	58.56	-	-	P	V
5500MHz		16500	49.57	-18.63	68.2	39.86	42.1	24.25	56.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11160	45.99	-28.01	74	47.13	37.86	19.23	58.23	-	-	P	H
		16740	48.84	-19.36	68.2	38.9	42.14	24.47	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	46.45	-27.55	74	47.59	37.86	19.23	58.23	-	-	P	V
5580MHz		16740	49.64	-18.56	68.2	39.7	42.14	24.47	56.67	-	-	P	V
													V
													V
													V
													V
													V
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													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11400	46.21	-27.79	74	46.31	38.2	19.43	57.73	-	-	P	H
		17100	50.01	-18.19	68.2	40.22	41.6	24.81	56.62	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	45.71	-28.29	74	45.81	38.2	19.43	57.73	-	-	P	V
5700MHz		17100	49.93	-18.27	68.2	40.14	41.6	24.81	56.62	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5448.88	68.11	-5.89	74	56.5	34.7	12.05	35.14	284	354	P	H
		5462.08	63.71	-4.49	68.2	52.07	34.7	12.07	35.13	284	354	P	H
		5459.92	52.72	-1.28	54	41.09	34.7	12.06	35.13	284	354	A	H
	*	5510	106.23	-	-	94.51	34.7	12.14	35.12	284	354	P	H
802.11ax	*	5510	98.32	-	-	86.6	34.7	12.14	35.12	284	354	A	H
HE40 Full		5740.745	49.49	-18.71	68.2	37.1	35.14	12.42	35.17	284	354	P	H
CH 102		5420.32	57.78	-16.22	74	46.24	34.7	12	35.16	100	281	P	V
5510MHz		5460.4	62.1	-6.1	68.2	50.47	34.7	12.06	35.13	100	281	P	V
		5453.2	48.83	-5.17	54	37.21	34.7	12.05	35.13	100	281	A	V
	*	5510	100.57	-	-	88.85	34.7	12.14	35.12	100	281	P	V
	*	5510	92.61	-	-	80.89	34.7	12.14	35.12	100	281	A	V
		5760.275	49.91	-18.29	68.2	37.44	35.2	12.44	35.17	100	281	P	V
		5458.72	54.3	-19.7	74	42.67	34.7	12.06	35.13	248	352	P	H
		5465.2	60.36	-7.84	68.2	48.72	34.7	12.07	35.13	248	352	P	H
		5459.92	46.5	-7.5	54	34.87	34.7	12.06	35.13	248	352	A	H
	*	5550	111.28	-	-	99.51	34.7	12.2	35.13	248	352	P	H
802.11ax	*	5550	102.75	-	-	90.98	34.7	12.2	35.13	248	352	A	H
HE40 Full		5754.605	50.86	-17.34	68.2	38.4	35.2	12.43	35.17	248	352	P	H
CH 110		5459.92	52.99	-21.01	74	41.36	34.7	12.06	35.13	100	285	P	V
5550MHz		5460.88	54	-14.2	68.2	42.37	34.7	12.06	35.13	100	285	P	V
		5459.68	43.4	-10.6	54	31.77	34.7	12.06	35.13	100	285	A	V
	*	5550	105.12	-	-	93.35	34.7	12.2	35.13	100	285	P	V
	*	5550	96.48	-	-	84.71	34.7	12.2	35.13	100	285	A	V
		5760.905	49.6	-18.6	68.2	37.13	35.2	12.44	35.17	100	285	P	V

		5395.5	49.6	-24.4	74	38.11	34.69	11.97	35.17	224	353	P	H
		5468.65	48.93	-19.27	68.2	37.28	34.7	12.08	35.13	224	353	P	H
		5453.25	40.64	-13.36	54	29.02	34.7	12.05	35.13	224	353	A	H
	*	5670	110.05	-	-	98.07	34.78	12.35	35.15	224	353	P	H
802.11ax	*	5670	102.37	-	-	90.39	34.78	12.35	35.15	224	353	A	H
HE40 Full		5735.25	64.23	-3.97	68.2	51.87	35.11	12.42	35.17	224	353	P	H
CH 134		5434.35	49.14	-24.86	74	37.56	34.7	12.02	35.14	100	300	P	V
5670MHz		5467.25	47.61	-20.59	68.2	35.97	34.7	12.07	35.13	100	300	P	V
		5458.85	40.02	-13.98	54	28.39	34.7	12.06	35.13	100	300	A	V
	*	5670	105.06	-	-	93.08	34.78	12.35	35.15	100	300	P	V
	*	5670	96.89	-	-	84.91	34.78	12.35	35.15	100	300	A	V
		5725	59.2	-9	68.2	46.91	35.05	12.4	35.16	100	300	P	V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	46.94	-27.06	74	48.39	37.96	19.11	58.52	-	-	P	H
		16530	49.67	-18.53	68.2	40.05	41.98	24.28	56.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	46.31	-27.69	74	47.76	37.96	19.11	58.52	-	-	P	V
5510MHz		16530	50.49	-17.71	68.2	40.87	41.98	24.28	56.64	-	-	P	V
													V
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													V
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													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11100	45.25	-28.75	74	46.62	37.8	19.18	58.35	-	-	P	H
		16650	49.11	-19.09	68.2	39.48	41.9	24.39	56.66	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	45.8	-28.2	74	47.17	37.8	19.18	58.35	-	-	P	V
5550MHz		16650	49.19	-19.01	68.2	39.56	41.9	24.39	56.66	-	-	P	V
													V
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													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11340	45.14	-28.86	74	45.47	38.14	19.38	57.85	-	-	P	H
		17010	49.88	-18.32	68.2	40.17	41.69	24.72	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	46.16	-27.84	74	46.49	38.14	19.38	57.85	-	-	P	V
5670MHz		17010	49.92	-18.28	68.2	40.21	41.69	24.72	56.7	-	-	P	V
													V
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													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5456.8	57.7	-16.3	74	46.07	34.7	12.06	35.13	256	353	P	H
		5464.72	63.29	-4.91	68.2	51.65	34.7	12.07	35.13	256	353	P	H
		5459.44	52.85	-1.15	54	41.22	34.7	12.06	35.13	256	353	A	H
	*	5530	103.29	-	-	91.55	34.7	12.17	35.13	256	353	P	H
802.11ax	*	5530	95.34	-	-	83.6	34.7	12.17	35.13	256	353	A	H
HE80 Full		5737.595	50.9	-17.3	68.2	38.52	35.13	12.42	35.17	256	353	P	H
CH 106		5452.96	59.85	-14.15	74	48.23	34.7	12.05	35.13	100	293	P	V
5530MHz		5468.08	58.12	-10.08	68.2	46.47	34.7	12.08	35.13	100	293	P	V
		5456.56	44.61	-9.39	54	32.98	34.7	12.06	35.13	100	293	A	V
	*	5530	98.81	-	-	87.07	34.7	12.17	35.13	100	293	P	V
	*	5530	89.99	-	-	78.25	34.7	12.17	35.13	100	293	A	V
		5738.225	49.17	-19.03	68.2	36.79	35.13	12.42	35.17	100	293	P	V
		5459.9	57.65	-16.35	74	46.02	34.7	12.06	35.13	246	352	P	H
		5467.95	58.67	-9.53	68.2	47.02	34.7	12.08	35.13	246	352	P	H
		5459.2	48.65	-5.35	54	37.02	34.7	12.06	35.13	246	352	A	H
	*	5610	106.47	-	-	94.62	34.7	12.29	35.14	246	352	P	H
802.11ax	*	5610	98.9	-	-	87.05	34.7	12.29	35.14	246	352	A	H
HE80 Full		5725	61.42	-6.78	68.2	49.13	35.05	12.4	35.16	246	352	P	H
CH 122		5451.5	52.03	-21.97	74	40.41	34.7	12.05	35.13	100	286	P	V
5610MHz		5466.9	52.9	-15.3	68.2	41.26	34.7	12.07	35.13	100	286	P	V
		5459.55	44.04	-9.96	54	32.41	34.7	12.06	35.13	100	286	A	V
	*	5610	101.96	-	-	90.11	34.7	12.29	35.14	100	286	P	V
	*	5610	94.07	-	-	82.22	34.7	12.29	35.14	100	286	A	V
		5729.65	54.12	-14.08	68.2	41.79	35.08	12.41	35.16	100	286	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	45.51	-28.49	74	46.93	37.88	19.14	58.44	-	-	P	H
		16590	48.75	-19.45	68.2	39.33	41.74	24.33	56.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	45.48	-28.52	74	46.9	37.88	19.14	58.44	-	-	P	V
5530MHz		16590	48.33	-19.87	68.2	38.91	41.74	24.33	56.65	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11220	44.93	-29.07	74	45.81	37.94	19.28	58.1	-	-	P	H
		16830	50.42	-17.78	68.2	40.36	42.2	24.55	56.69	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	44.98	-29.02	74	45.86	37.94	19.28	58.1	-	-	P	V
5610MHz		16830	50.39	-17.81	68.2	40.33	42.2	24.55	56.69	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 114 5570MHz		5445.76	53.23	-20.77	74	41.63	34.7	12.04	35.14	253	353	P	H
		5470	51.19	-17.01	68.2	39.54	34.7	12.08	35.13	253	353	P	H
		5434.72	50.94	-3.06	54	39.36	34.7	12.02	35.14	253	353	A	H
	*	5570	98.14	-	-	86.34	34.7	12.23	35.13	253	353	P	H
	*	5570	92.02	-	-	80.22	34.7	12.23	35.13	253	353	A	H
		5734.13	53.49	-14.71	68.2	41.15	35.1	12.41	35.17	253	353	P	H
		5435.2	59.13	-14.87	74	47.55	34.7	12.02	35.14	100	285	P	V
		5468.8	49.74	-18.46	68.2	38.09	34.7	12.08	35.13	100	285	P	V
		5435.92	46.65	-7.35	54	35.06	34.7	12.03	35.14	100	285	A	V
	*	5570	93.32	-	-	81.52	34.7	12.23	35.13	100	285	P	V
	*	5570	85.51	-	-	73.71	34.7	12.23	35.13	100	285	A	V
		5749.25	49.59	-18.61	68.2	37.13	35.2	12.43	35.17	100	285	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11140	46.2	-27.8	74	47.42	37.84	19.21	58.27	-	-	P	H
		16710	49.39	-18.81	68.2	39.5	42.11	24.45	56.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 114		11140	45.26	-28.74	74	46.48	37.84	19.21	58.27	-	-	P	V
5570MHz		16710	49.63	-18.57	68.2	39.74	42.11	24.45	56.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5453.35	48.46	-25.54	74	36.84	34.7	12.05	35.13	400	355	P	H
		5465.44	48.26	-19.94	68.2	36.62	34.7	12.07	35.13	400	355	P	H
		5458.81	40.37	-13.63	54	28.74	34.7	12.06	35.13	400	355	A	H
	*	5720	113.66	-	-	101.4	35.02	12.4	35.16	400	355	P	H
802.11ax	*	5720	104.66	-	-	92.4	35.02	12.4	35.16	400	355	A	H
HE20 Full		5916.25	52.15	-16.05	68.2	39.62	35.17	12.56	35.2	400	355	P	H
CH 144		5416.69	48.77	-25.23	74	37.23	34.7	12	35.16	100	306	P	V
5720MHz		5468.56	50.36	-17.84	68.2	38.71	34.7	12.08	35.13	100	306	P	V
		5457.25	40.2	-13.8	54	28.57	34.7	12.06	35.13	100	306	A	V
	*	5720	108.36	-	-	96.1	35.02	12.4	35.16	100	306	P	V
	*	5720	99.92	-	-	87.66	35.02	12.4	35.16	100	306	A	V
		5860.5	50.94	-17.26	68.2	38.41	35.2	12.52	35.19	100	306	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	46.14	-27.86	74	46.16	38.16	19.46	57.64	-	-	P	H
		17160	50.57	-17.63	68.2	40.73	41.54	24.87	56.57	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	46.68	-27.32	74	46.7	38.16	19.46	57.64	-	-	P	V
5720MHz		17160	50.98	-17.22	68.2	41.14	41.54	24.87	56.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5429.56	49.21	-24.79	74	37.63	34.7	12.02	35.14	214	0	P	H
		5468.95	48.4	-19.8	68.2	36.75	34.7	12.08	35.13	214	0	P	H
		5459.59	40.28	-13.72	54	28.65	34.7	12.06	35.13	214	0	A	H
	*	5710	108.53	-	-	96.34	34.96	12.39	35.16	214	0	P	H
802.11ax	*	5710	101.29	-	-	89.1	34.96	12.39	35.16	214	0	A	H
HE40 Full		5944.5	51.7	-16.5	68.2	39.22	35.11	12.57	35.2	214	0	P	H
CH 142		5381.2	48.54	-25.46	74	37.09	34.66	11.96	35.17	100	299	P	V
5710MHz		5459.98	48.16	-25.84	74	36.53	34.7	12.06	35.13	100	299	P	V
		5459.98	39.86	-14.14	54	28.23	34.7	12.06	35.13	100	299	A	V
	*	5710	105.49	-	-	93.3	34.96	12.39	35.16	100	299	P	V
	*	5710	96.89	-	-	84.7	34.96	12.39	35.16	100	299	A	V
		5908.25	50.87	-17.33	68.2	38.33	35.18	12.55	35.19	100	299	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	45.58	-28.42	74	45.65	38.18	19.44	57.69	-	-	P	H
		17130	50.85	-17.35	68.2	41.04	41.57	24.84	56.6	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	45.54	-28.46	74	45.61	38.18	19.44	57.69	-	-	P	V
5710MHz		17130	51.07	-17.13	68.2	41.26	41.57	24.84	56.6	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 3 Straddle Channel

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.59	51.92	-22.08	74	40.29	34.7	12.06	35.13	400	360	P	H
		5467.39	53.23	-14.97	68.2	41.59	34.7	12.07	35.13	400	360	P	H
		5458.03	42.49	-11.51	54	30.86	34.7	12.06	35.13	400	360	A	H
	*	5690	106.37	-	-	94.3	34.86	12.37	35.16	400	360	P	H
802.11ax	*	5690	98.47	-	-	86.4	34.86	12.37	35.16	400	360	A	H
HE80 Full		5860.3	56.34	-11.86	68.2	43.81	35.2	12.52	35.19	400	360	P	H
CH 138		5375.35	48.93	-25.07	74	37.49	34.65	11.96	35.17	100	306	P	V
5690MHz		5460.37	47.52	-20.68	68.2	35.89	34.7	12.06	35.13	100	306	P	V
		5459.98	40.28	-13.72	54	28.65	34.7	12.06	35.13	100	306	A	V
	*	5690	101.54	-	-	89.47	34.86	12.37	35.16	100	306	P	V
	*	5690	93.67	-	-	81.6	34.86	12.37	35.16	100	306	A	V
		5866.9	52.96	-15.24	68.2	40.43	35.2	12.52	35.19	100	306	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	45.62	-28.38	74	45.8	38.18	19.41	57.77	-	-	P	H
		17070	51.04	-17.16	68.2	41.28	41.63	24.78	56.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	45.21	-28.79	74	45.39	38.18	19.41	57.77	-	-	P	V
5690MHz		17070	49.94	-18.26	68.2	40.18	41.63	24.78	56.65	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI Ant. 9+8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full LF		30	23.24	-16.76	40	27.8	24.57	0.9	30.03	-	-	P	H
		87.78	24.02	-15.98	40	38.01	14.41	1.59	29.99	-	-	P	H
		130.71	30.81	-12.69	43.5	41.36	17.49	1.94	29.98	-	-	P	H
		783	30.02	-15.98	46	27.47	27.82	4.35	29.62	-	-	P	H
		889.4	31.25	-14.75	46	26.9	28.68	4.65	28.98	-	-	P	H
		950.3	33.34	-12.66	46	26.85	30.33	4.87	28.71	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.77	-6.23	40	38.33	24.57	0.9	30.03	-	-	P	V
		35.13	31.74	-8.26	40	38.72	21.95	1.09	30.02	-	-	P	V
		87.24	24.48	-15.52	40	38.57	14.32	1.59	30	-	-	P	V
		846.7	30.77	-15.23	46	26.83	28.61	4.6	29.27	-	-	P	V
		892.2	31.37	-14.63	46	27.01	28.67	4.65	28.96	-	-	P	V
		951	32.73	-13.27	46	26.2	30.36	4.87	28.7	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
9+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5142.74	56.85	-17.15	74	46.26	34.1	11.78	35.29	369	40	P	H
		5147.42	43.99	-10.01	54	33.38	34.1	11.79	35.28	369	40	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5180MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 34.1(dB/m) + 11.78(dB) + 46.26(dBμV) – 35.29(dB)

= 56.85 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 56.85(dBμV/m) – 74(dBμV/m)

= -17.15(dB)

For Average Limit @ 5180MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 34.1(dB/m) + 11.79(dB) +33.38(dBμV) – 35.28 (dB)

= 43.99 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.99(dBμV/m) – 54(dBμV/m)

= -10.01(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	**Temperature :**	16.9~23.7°C
		Relative Humidity :	50.9~71.0%

Note symbol

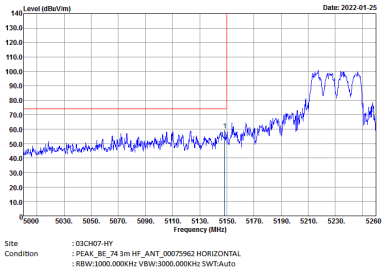
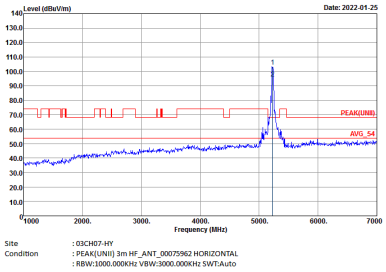
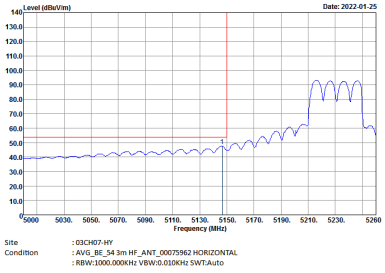
-L	**Low channel location**
-R	**High channel location**

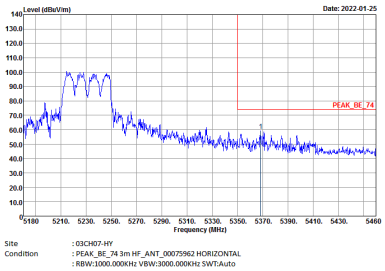
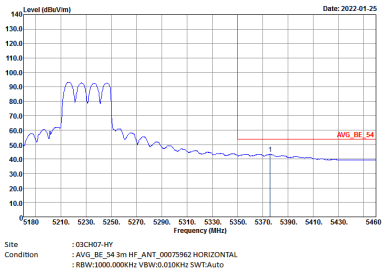
<CDD Mode>

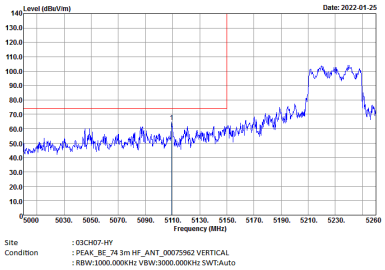
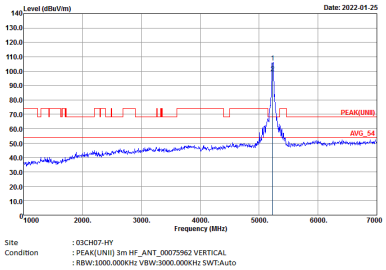
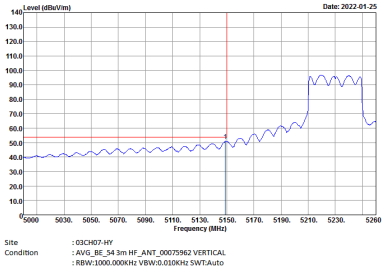
<Sample 1>

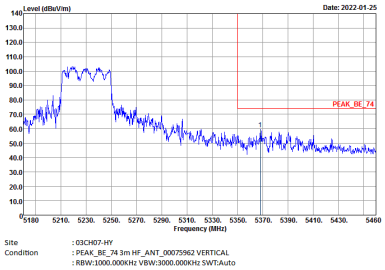
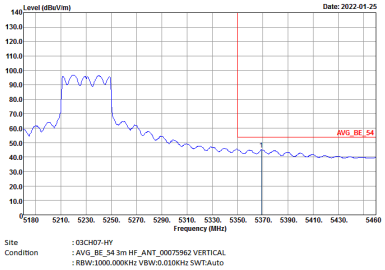
Band 1 - 5150~5250MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

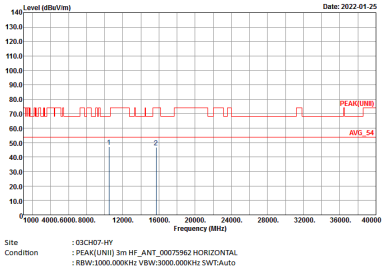
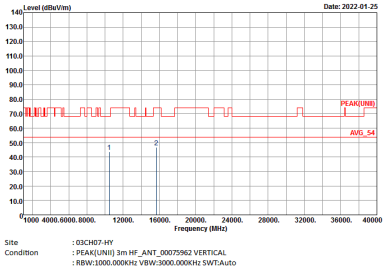
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
9+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

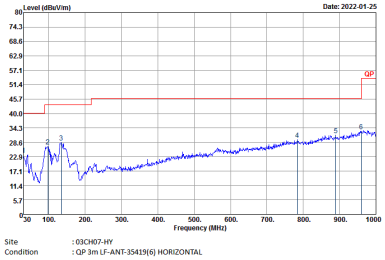
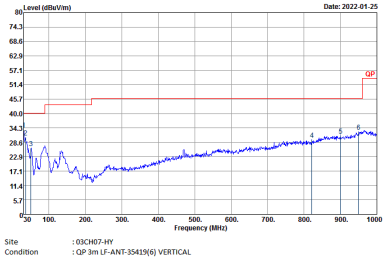
Band 1 - 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
9+8	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

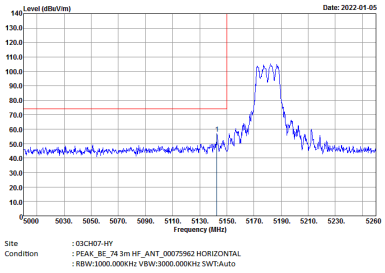
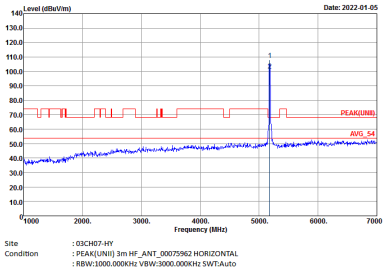
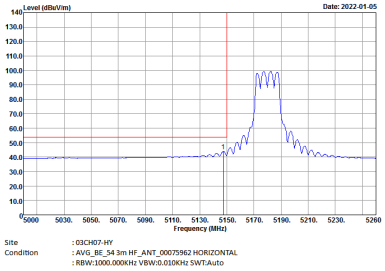
5GHz WIFI 802.11ax HE40 Full (LF)

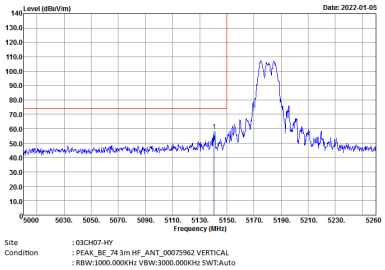
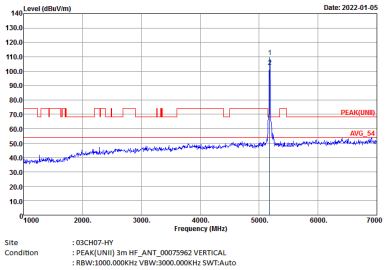
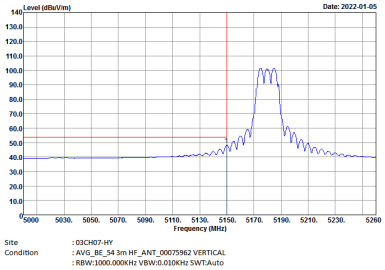
WIFI	5GHz WIFI	
ANT	802.11ax HE40 Full LF	
9+8	Horizontal	Vertical
QP / Peak		

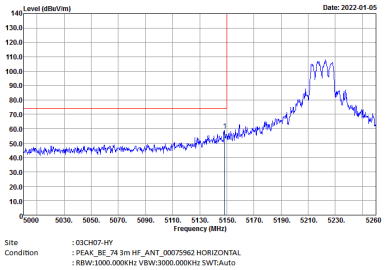
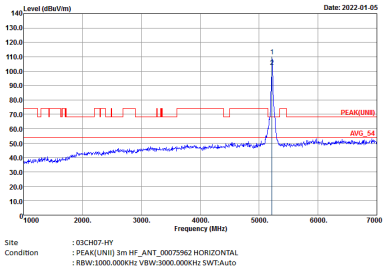
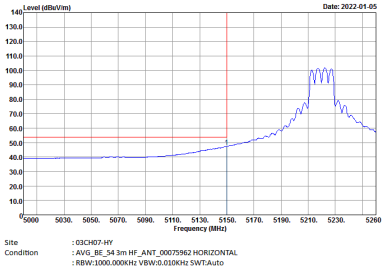
<Sample 2>

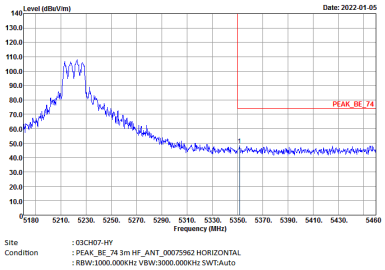
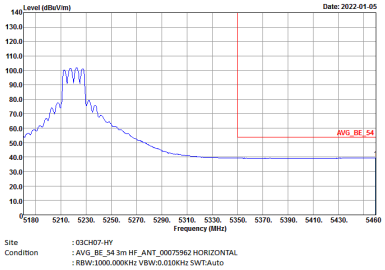
Band 1 - 5150~5250MHz

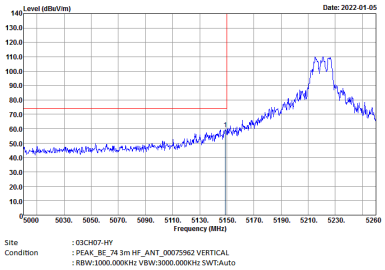
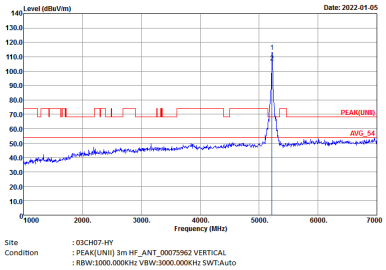
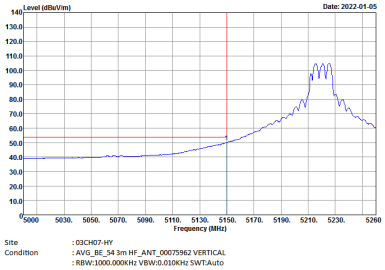
WIFI 802.11a (Band Edge @ 3m)

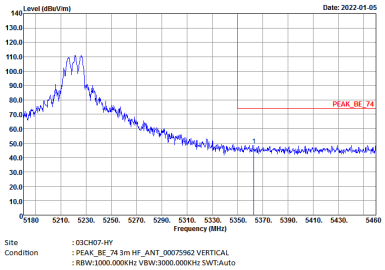
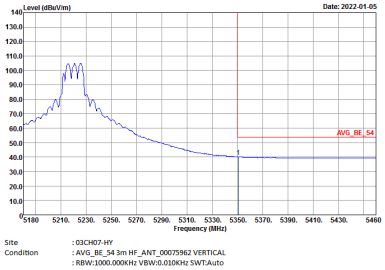
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

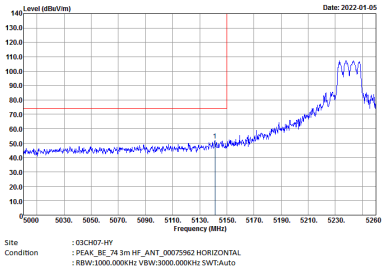
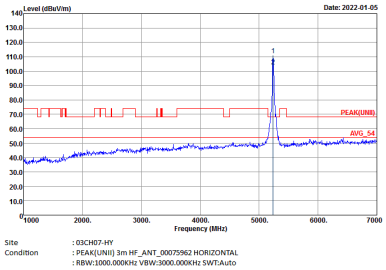
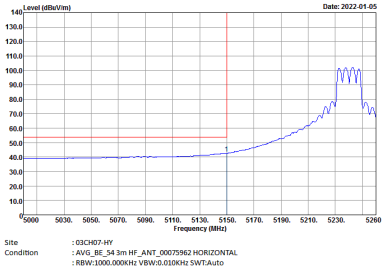
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

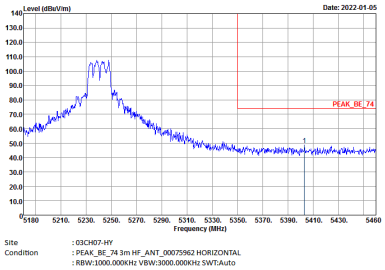
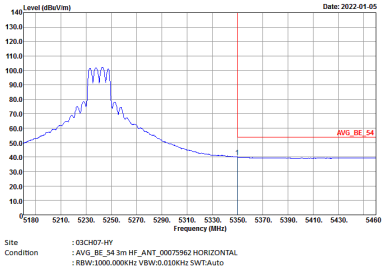
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

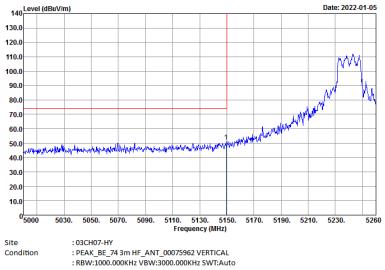
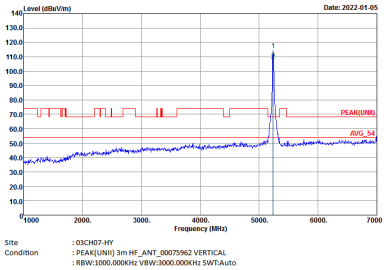
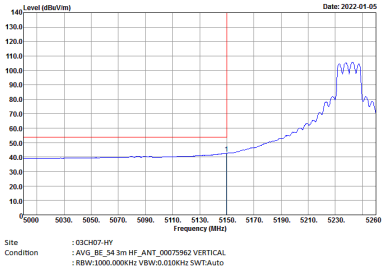
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
9+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

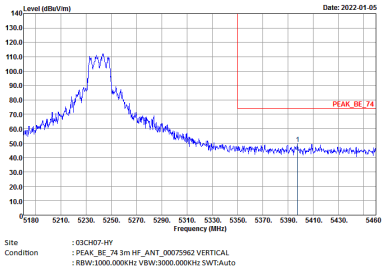
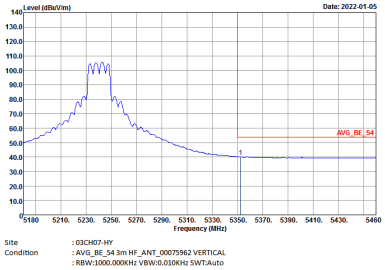
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
9+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

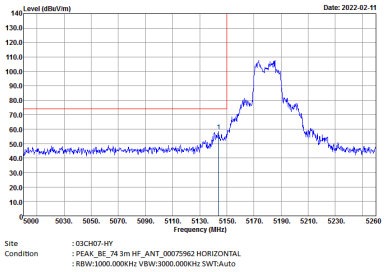
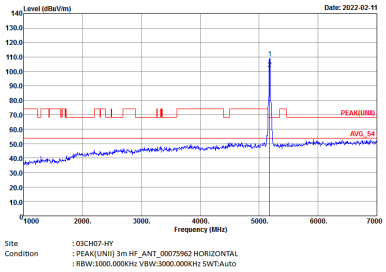
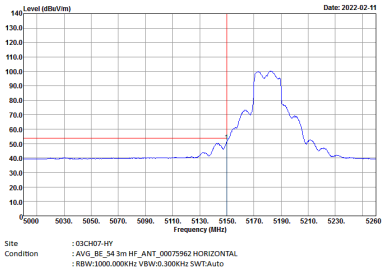
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
9+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

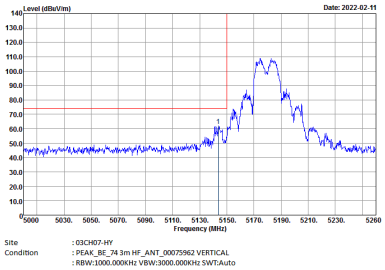
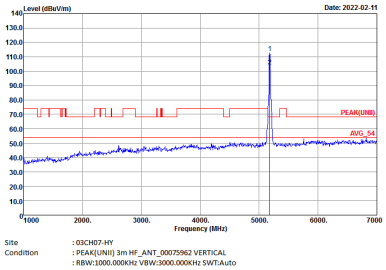
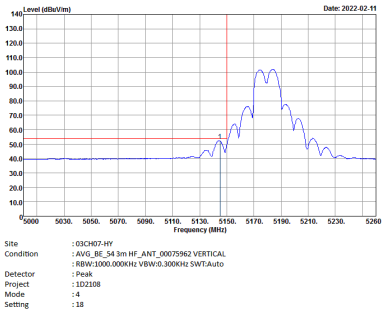
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

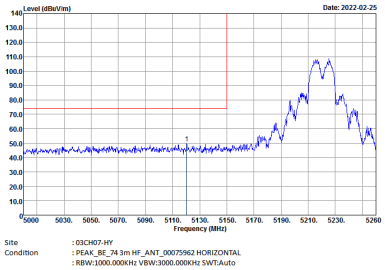
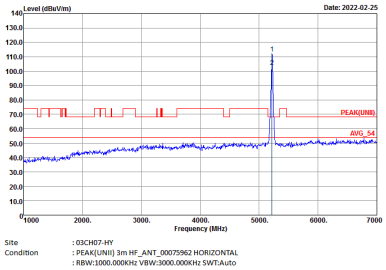
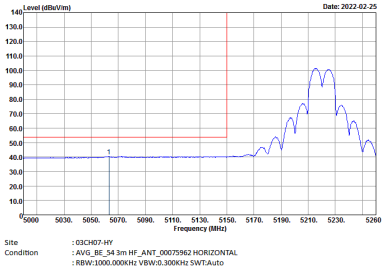
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
9+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

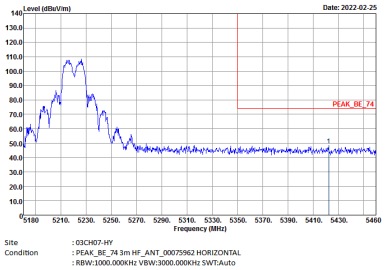
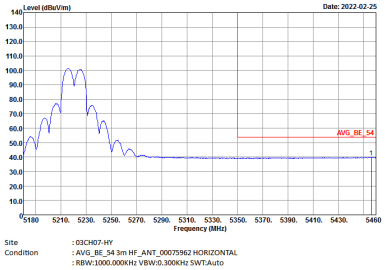
Band 1 5150~5250MHz

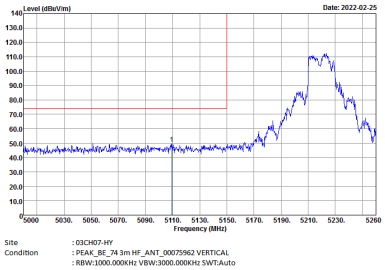
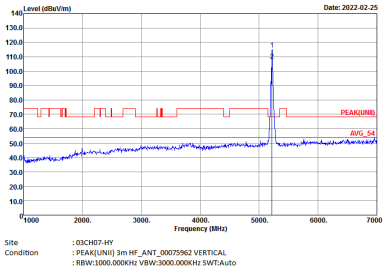
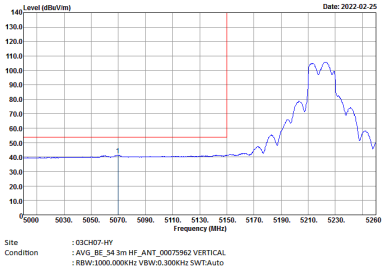
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

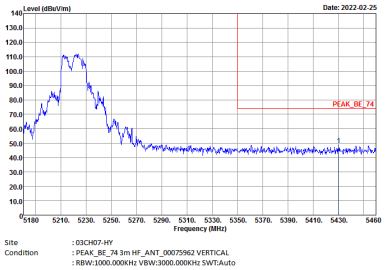
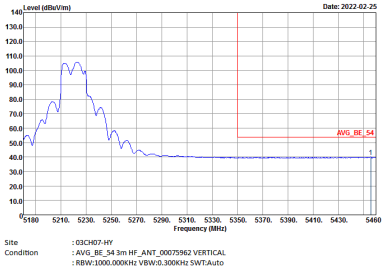
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

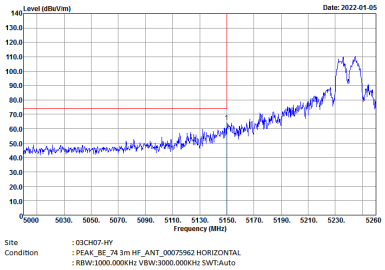
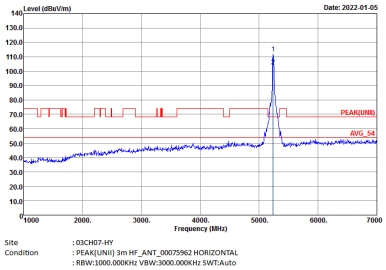
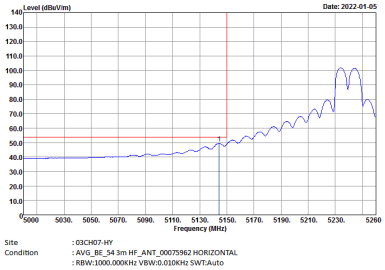
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

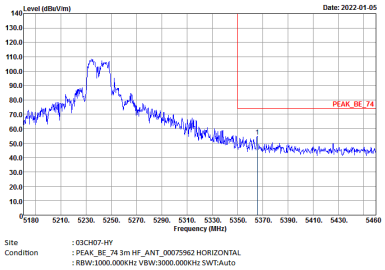
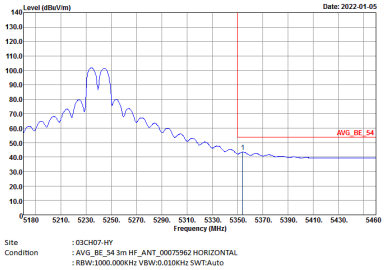
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

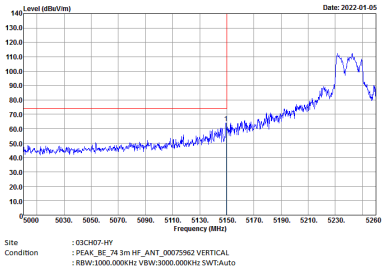
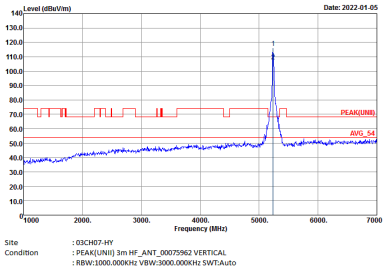
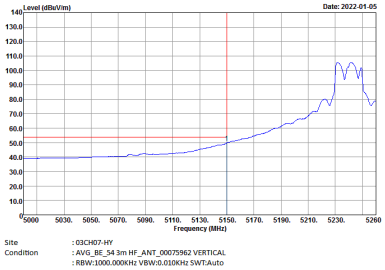
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
9+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

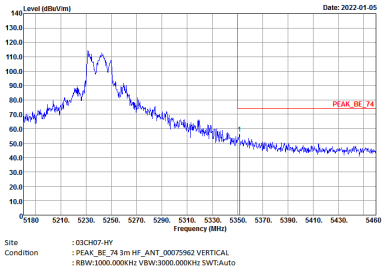
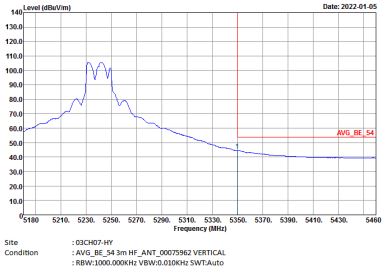
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
9+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

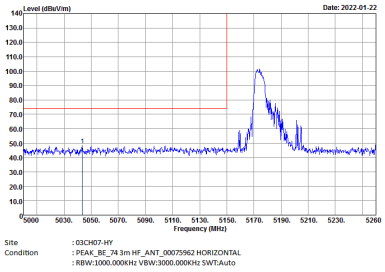
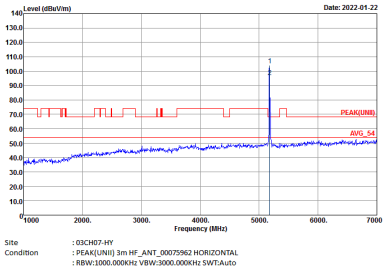
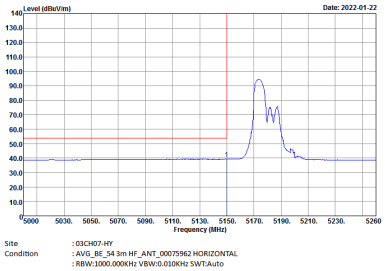
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
9+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

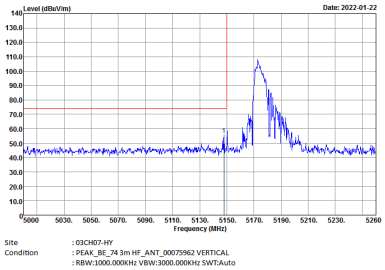
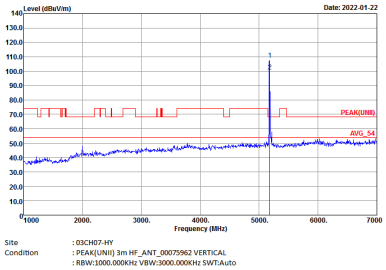
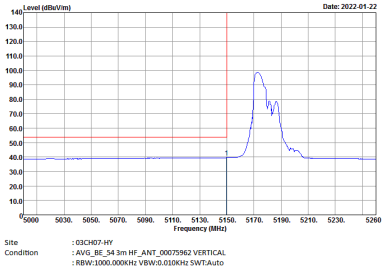
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
9+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
9+8	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
9+8	Vertical	Fundamental
Peak		
Avg.		Left blank