FCC RADIO TEST REPORT

FCC ID	:	**UZ7ET40AA**
Equipment	:	**Tablet**
Brand Name	:	**Zebra**
Model Name	:	**ET40AA**
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 Mar. 18, 2022 and testing was performed from Mar. 23, 2022 to Apr. 23, 2022. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR222224D	01	Initial issue of report	May 18, 2022
FR222224D	02	Revise image resolution	May 23, 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	1.04 dB under the limit at 5149.760 MHz
3.5	15.207	AC Conducted Emission	Pass	17.72 dB under the limit at 0.266 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: Keven Cheng

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	Zebra
Model Name	ET40AA
FCC ID	UZ7ET40AA
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	EV2-1
SW Version	ET40-userdebug 11 11-07-10.00-RG-U00-PRD-GSE MX3 release-keys
MFD	28JAN22
EUT Stage	Identical Prototype

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

Specification of Accessories				
Battery	**Brand Name**	Zebra	**Model Name**	BT-000455

Supported Unit Used in Test Configuration and System				
AC Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Earphone 1	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTVP-01
Earphone 2	**Brand Name**	Zebra	**Part Number**	HDST-USBC-PTT1-01
USB Cable (Type C to Type A)	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
Type C-Audio Cable (Type C to 3.5mm)	**Brand Name**	Zebra	**Part Number**	ADP-USBC-35MM1-01

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. 6+7>** 802.11a: 22.21 dBm / 0.1664 W 802.11n HT20: 22.51 dBm / 0.1783 W 802.11n HT40: 23.36 dBm / 0.2168 W 802.11ac VHT20: 22.51 dBm / 0.1783 W 802.11ac VHT40: 23.36 dBm / 0.2168 W 802.11ac VHT80: 18.16 dBm / 0.0655 W 802.11ax HE20: 22.61 dBm / 0.1825 W 802.11ax HE40: 23.46 dBm / 0.2218 W 802.11ax HE80: 18.26 dBm / 0.0670 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 6+7>** 802.11a: 22.21 dBm / 0.1664 W 802.11n HT20: 21.57 dBm / 0.1435 W 802.11n HT40: 23.02 dBm / 0.2005 W 802.11ac VHT20: 21.57 dBm / 0.1435 W 802.11ac VHT40: 23.02 dBm / 0.2005 W 802.11ac VHT80: 19.67 dBm / 0.0926 W 802.11ax HE20: 21.67 dBm / 0.1468 W 802.11ax HE40: 23.12 dBm / 0.2051 W 802.11ax HE80: 19.77 dBm / 0.0948 W **<5500 MHz ~ 5720 MHz** **MIMO <Ant. 6+7>** 802.11a: 22.36 dBm / 0.1722 W 802.11n HT20: 21.73 dBm / 0.1489 W 802.11n HT40: 23.17 dBm / 0.2074 W 802.11ac VHT20: 21.73 dBm / 0.1489 W 802.11ac VHT40: 23.17 dBm / 0.2074 W 802.11ac VHT80: 23.01 dBm / 0.2002 W 802.11ax HE20: 21.83 dBm / 0.1524 W 802.11ax HE40: 23.27 dBm / 0.2122 W 802.11ax HE80: 23.11 dBm / 0.2049 W

Product Specification is subject to this standard	
Maximum Output Power to Antenna <TXBF Mode>	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 6+7>** 802.11n HT20: 20.41 dBm / 0.1099 W 802.11n HT40: 23.26 dBm / 0.2120 W 802.11ax HE20: 20.51 dBm / 0.1125 W 802.11ax HE40: 23.36 dBm / 0.2169 W 802.11ax HE80: 19.01 dBm / 0.0796 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 6+7>** 802.11n HT20: 21.01 dBm / 0.1263 W 802.11n HT40: 23.26 dBm / 0.2120 W 802.11ax HE20: 21.11 dBm / 0.1293 W 802.11ax HE40: 23.36 dBm / 0.2169 W 802.11ax HE80: 19.41 dBm / 0.0874 W **<5500 MHz ~ 5720 MHz** **MIMO <Ant. 6+7>** 802.11n HT20: 20.67 dBm / 0.1166 W 802.11n HT40: 23.17 dBm / 0.2074 W 802.11ax HE20: 20.77 dBm / 0.1193 W 802.11ax HE40: 23.27 dBm / 0.2122 W 802.11ax HE80: 22.78 dBm / 0.1898 W
99% Occupied Bandwidth <CDD Mode>	**MIMO <Ant. 6>** 802.11a: 17.13 MHz 802.11ax HE20: 19.03 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 77.32 MHz **MIMO <Ant. 7>** 802.11a: 16.98 MHz 802.11ax HE20: 18.98 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 77.32 MHz
99% Occupied Bandwidth <TXBF Mode>	**MIMO <Ant. 6>** 802.11ax HE20: 18.98 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 77.08 MHz **MIMO <Ant. 7>** 802.11ax HE20: 18.98 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 77.20 MHz

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Antenna Type</td><td>Ant. 6 : IFA Antenna
Ant. 7 : IFA Antenna</td></tr>
<tr><td rowspan="3">Antenna Gain</td><td><5180 MHz ~ 5240 MHz>
Ant. 6 : 1.35 dBi
Ant. 7 : 1.49 dBi</td></tr>
<tr><td><5260 MHz ~ 5320 MHz>
Ant. 6 : 0.82 dBi
Ant. 7 : 2.20 dBi</td></tr>
<tr><td><5500 MHz ~ 5720 MHz>
Ant. 6 : 1.14 dBi
Ant. 7 : 1.58 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: OFDMA
(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><th></th><th>Ant. 6</th><th>Ant. 7</th></tr>
<tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n/ax TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Remark:

1. MIMO Ant. 6+7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.
2. The EUT's information above is 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. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH16-HY, CO07-HY

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

FCC designation No.: TW3786

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 X 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)	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.

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.

CDD 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
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

TXBF Mode

Modulation	Data Rate
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + USB Cable (Charging from Adapter)

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

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

MIMO <Ant. 6+7>

<CDD Mode>

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
CH 036	5180	22.16	CH 048	22.01	22.01	22.01	21.91	21.91	21.91	21.81
CH 044	5220	22.11								
CH 048	5240	**22.21**								
CH 052	5260	22.16	CH 060	22.11	22.11	22.11	22.01	22.01	22.01	21.91
CH 060	5300	**22.21**								
CH 064	5320	22.11								
CH 100	5500	22.31	CH 116	22.26	22.26	22.16	22.16	22.11	22.06	22.06
CH 116	5580	**22.36**								
CH 140	5700	21.77								
CH 144*	5720	22.31								

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

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 036	5180	22.11	CH 044	22.41	22.41	22.41	22.31	22.31	22.31	22.21
CH 044	5220	**22.51**								
CH 048	5240	22.06								
CH 052	5260	**21.57**	CH 052	21.47	21.47	21.47	21.37	21.37	21.37	21.27
CH 060	5300	21.56								
CH 064	5320	21.52								
CH 100	5500	**21.73**	CH 100	21.63	21.63	21.63	21.53	21.53	21.53	21.43
CH 116	5580	21.62								
CH 140	5700	20.21								
CH 144*	5720	21.61								

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

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 038	5190	18.96	CH 046	23.26	23.26	23.26	23.16	23.16	23.16	23.06
CH 046	5230	**23.36**								
CH 054	5270	**23.02**	CH 054	22.92	22.92	22.92	22.82	22.82	22.82	22.72
CH 062	5310	20.51								
CH 102	5510	20.57	CH 142*	23.07	23.07	23.07	22.97	22.97	22.97	22.87
CH 110	5550	23.03								
CH 134	5670	22.26								
CH 142*	5710	**23.17**								

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

802.11ac VHT20 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 036	5180	22.11	CH 044	22.41	22.41	22.41	22.31	22.31	22.31	22.21	22.21
CH 044	5220	**22.51**									
CH 048	5240	22.06									
CH 052	5260	**21.57**	CH 052	21.47	21.47	21.47	21.37	21.37	21.37	21.27	21.27
CH 060	5300	21.56									
CH 064	5320	21.52									
CH 100	5500	**21.73**	CH 100	21.63	21.63	21.63	21.53	21.53	21.53	21.43	21.43
CH 116	5580	21.62									
CH 140	5700	20.21									
CH 144*	5720	21.61									

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

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 038	5190	18.96	CH 046	23.26	23.26	23.26	23.16	23.16	23.16	23.16	23.06	23.06
CH 046	5230	**23.36**										
CH 054	5270	**23.02**	CH 054	22.92	22.92	22.92	22.82	22.82	22.82	22.82	22.72	22.72
CH 062	5310	20.51										
CH 102	5510	20.57	CH 142*	23.07	23.07	23.07	22.97	22.97	22.97	22.97	22.87	22.87
CH 110	5550	23.03										
CH 134	5670	22.26										
CH 142*	5710	**23.17**										

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

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 042	5210	**18.16**	CH 042	18.06	18.06	18.06	17.96	17.96	17.96	17.86	17.86	17.76
CH 058	5290	**19.67**	CH 058	19.57	19.57	19.57	19.47	19.47	19.47	19.37	19.37	19.27
CH 106	5530	19.97	CH 122	22.91	22.91	22.91	22.81	22.81	22.81	22.71	22.71	22.61
CH 122	5610	**23.01**										
CH 138*	5690	22.91										

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

<802.11ax Mode>

802.11ax HE20 RF Output Power (dBm)														
Power vs. Channel				Power vs Data Rate										
Channel	Frequency (MHz)	RU Config.	MCS Index MCS0	Channel	MCS Index MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 036	5180	Full	22.21	CH 044	22.51	22.51	22.51	22.51	22.41	22.41	22.41	22.41	22.31	22.31	22.31
CH 036	5180	26/0	13.21												
CH 036	5180	52/37	16.41												
CH 036	5180	106/53	19.56												
CH 044	5220	Full	**22.61**												
CH 044	5220	26/4	14.76												
CH 044	5220	52/39	16.81												
CH 044	5220	106/53	19.91												
CH 048	5240	Full	22.16												
CH 048	5240	26/8	13.31												
CH 048	5240	52/40	16.56												
CH 048	5240	106/54	19.36												
CH 052	5260	Full	**21.67**	CH 052	21.57	21.57	21.57	21.57	21.47	21.47	21.47	21.47	21.37	21.37	21.37
CH 052	5260	26/0	13.56												
CH 052	5260	52/37	16.11												
CH 052	5260	106/53	19.47												
CH 060	5300	Full	21.66												
CH 060	5300	26/4	14.26												
CH 060	5300	52/39	16.36												
CH 060	5300	106/54	19.31												
CH 064	5320	Full	21.62												
CH 064	5320	26/8	13.47												
CH 064	5320	52/40	16.11												
CH 064	5320	106/54	19.42												
CH 100	5500	Full	**21.83**	CH 100	21.73	21.73	21.73	21.73	21.63	21.63	21.63	21.63	21.53	21.53	21.53
CH 100	5500	26/0	13.91												
CH 100	5500	52/37	16.61												
CH 100	5500	106/53	19.77												
CH 116	5580	Full	21.72												
CH 116	5580	26/4	14.71												
CH 116	5580	52/38	16.66												
CH 116	5580	106/53	19.61												
CH 140	5700	Full	20.31												
CH 140	5700	26/8	11.86												
CH 140	5700	52/40	14.91												
CH 140	5700	106/54	18.11												
CH 144*	5720	Full	21.71												
CH 144*	5720	26/8	13.36												
CH 144*	5720	52/40	16.36												
CH 144*	5720	106/54	19.61												

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	19.06	CH 046	23.36	23.36	23.36	23.36	23.26	23.26	23.26	23.26	23.16	23.21	23.16
CH 038	5190	242/61	16.16												
CH 046	5230	Full	**23.46**												
CH 046	5230	242/62	20.37												
CH 054	5270	Full	**23.12**	CH 054	23.02	23.02	23.02	23.02	22.92	22.92	22.92	22.92	22.82	22.87	22.82
CH 054	5270	242/61	20.06												
CH 062	5310	Full	20.61												
CH 062	5310	242/62	17.41												
CH 102	5510	Full	20.67	CH 142*	23.17	23.17	23.17	23.17	23.07	23.07	23.07	23.07	22.97	22.97	22.97
CH 102	5510	242/61	17.56												
CH 110	5550	Full	23.13												
CH 110	5550	242/61	20.21												
CH 134	5670	Full	22.36												
CH 134	5670	242/62	19.56												
CH 142*	5710	Full	**23.27**												
CH 142*	5710	242/62	20.22												

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	**18.26**	CH 042	18.16	18.16	18.16	18.06	18.06	18.06	18.06	17.96	17.96	17.86	17.86
CH 042	5210	484/65	14.91												
CH 058	5290	Full	**19.77**	CH 058	19.67	19.67	19.67	19.57	19.57	19.57	19.57	19.47	19.47	19.37	19.37
CH 058	5290	484/66	16.46												
CH 106	5530	Full	20.07	CH 122	23.01	23.01	23.01	22.91	22.91	22.91	22.91	22.81	22.81	22.71	22.71
CH 106	5530	484/65	16.51												
CH 122	5610	Full	**23.11**												
CH 122	5610	484/66	19.81												
CH 138*	5690	Full	23.01												
CH 138*	5690	484/66	19.51												

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

<TXBF Mode>

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 036	5180	20.36	CH 048	20.31	20.31	20.31	20.21	20.21	20.21	20.16
CH 044	5220	20.31								
CH 048	5240	**20.41**								
CH 052	5260	20.56	CH 060	20.91	20.91	20.91	20.81	20.81	20.81	20.81
CH 060	5300	**21.01**								
CH 064	5320	20.47								
CH 100	5500	**20.67**	CH 100	20.57	20.57	20.57	20.47	20.47	20.47	20.47
CH 116	5580	20.66								
CH 140	5700	20.46								
CH 144*	5720	20.56								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 038	5190	18.86	CH 046	23.16	23.16	23.16	23.06	23.06	23.06	22.96
CH 046	5230	**23.26**								
CH 054	5270	**23.26**	CH 054	23.16	23.16	23.16	23.06	23.06	23.06	22.96
CH 062	5310	19.71								
CH 102	5510	20.48	CH 142*	23.07	23.07	23.07	22.97	22.97	22.97	22.92
CH 110	5550	23.03								
CH 134	5670	22.11								
CH 142*	5710	**23.17**								

<802.11ax Mode>

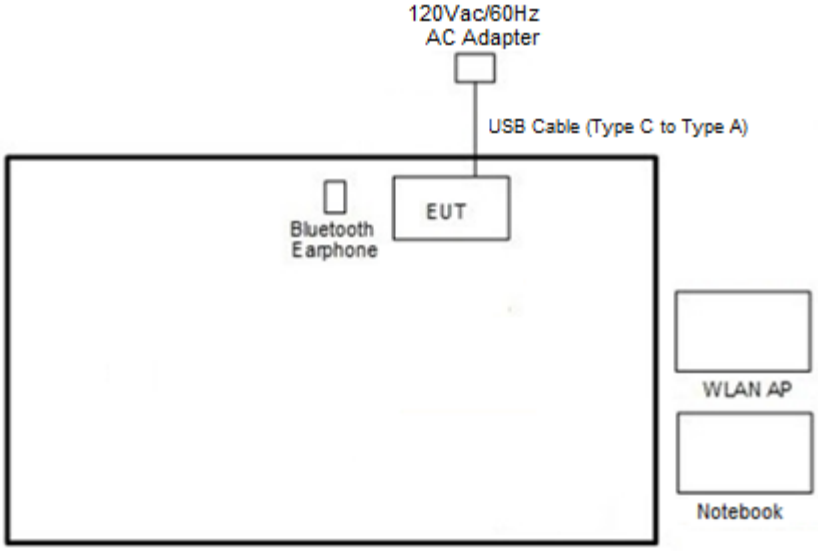
802.11ax HE20 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index MCS0	Channel	MCS Index MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 036	5180	Full	20.46	CH 048	20.46	20.46	20.46	20.36	20.36	20.36	20.36	20.31	20.26	20.26	20.26
CH 044	5220	Full	20.41												
CH 048	5240	Full	**20.51**												
CH 052	5260	Full	20.66	CH 060	21.01	21.01	21.01	20.91	20.91	20.91	20.91	20.87	20.81	20.81	20.77
CH 060	5300	Full	**21.11**												
CH 064	5320	Full	20.57												
CH 100	5500	Full	**20.77**	CH 100	20.67	20.67	20.67	20.57	20.57	20.57	20.57	20.52	20.47	20.47	20.42
CH 116	5580	Full	20.76												
CH 140	5700	Full	20.56												
CH 144*	5720	Full	20.66												

802.11ax HE40 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index MCS0	Channel	MCS Index MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 038	5190	Full	18.96	CH 046	23.26	23.26	23.26	23.16	23.16	23.16	23.16	23.06	23.06	23.06	22.96
CH 046	5230	Full	**23.36**												
CH 054	5270	Full	**23.36**	CH 054	23.26	23.26	23.26	23.16	23.16	23.16	23.16	23.06	23.06	23.06	22.96
CH 062	5310	Full	19.81												
CH 102	5510	Full	20.58	CH 142*	23.17	23.17	23.17	23.07	23.07	23.07	23.07	22.97	22.97	22.97	22.87
CH 110	5550	Full	23.13												
CH 134	5670	Full	22.21												
CH 142*	5710	Full	**23.27**												

802.11ax HE80 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index MCS0	Channel	MCS Index MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 042	5210	Full	**19.01**	CH 042	18.91	18.91	18.91	18.81	18.81	18.81	18.81	18.76	18.71	18.71	18.61
CH 058	5290	Full	**19.41**	CH 058	19.31	19.31	19.31	19.21	19.21	19.21	19.21	19.16	19.11	19.11	19.01
CH 106	5530	Full	20.11	CH 122	22.68	22.68	22.68	22.58	22.58	22.58	22.58	22.48	22.48	22.48	22.38
CH 122	5610	Full	**22.78**												
CH 138*	5690	Full	22.73												

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



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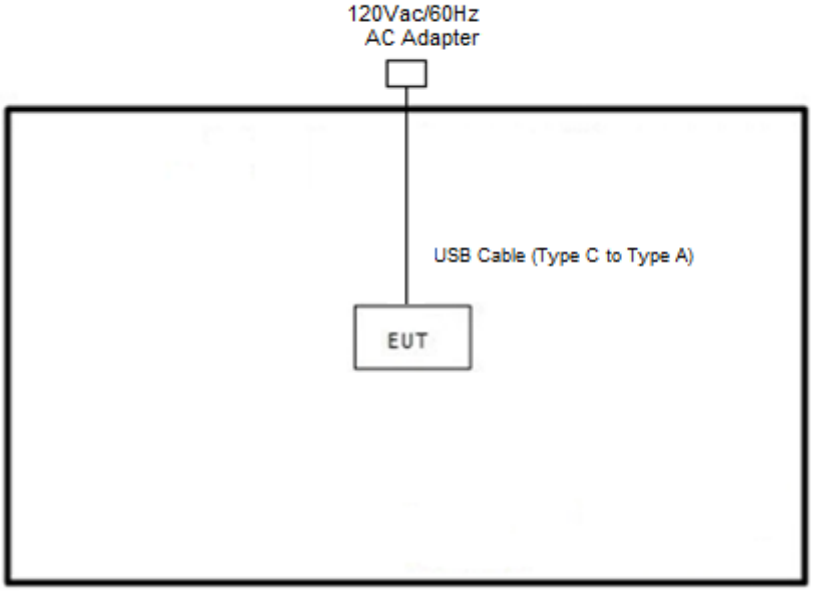

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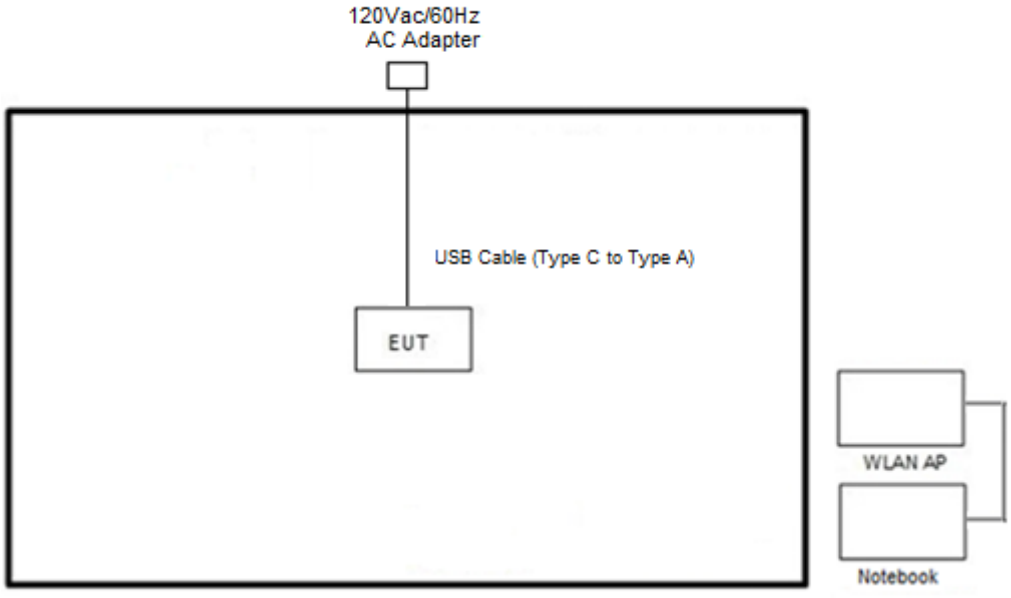


2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	Notebook	Dell	P74G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “cmd v10.0.17134.1304” 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 “cmd v10.0.17134.1304” 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.

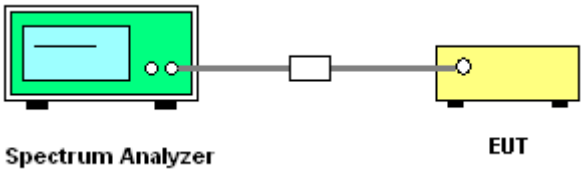
3.1.2 Measuring Instruments

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

Test Engineer :	Benny Ku	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

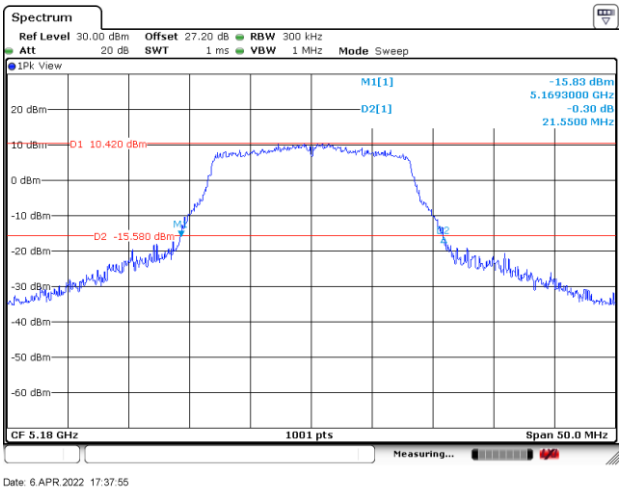
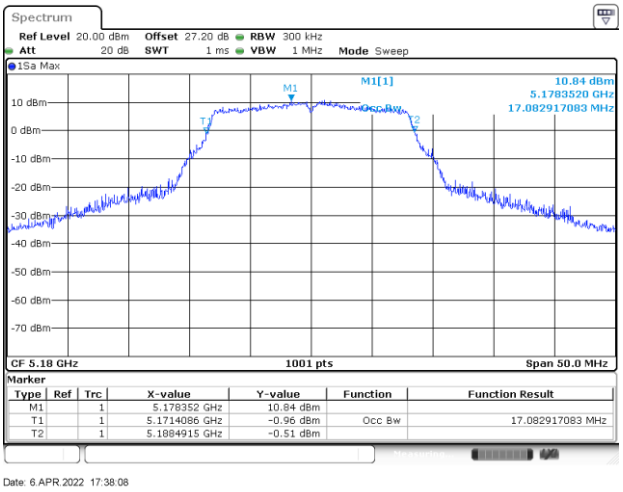
Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		-	Note
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	36	5180	17.08	16.78	21.55	21.25	-		22.25		-	-
11a	6Mbps	2	44	5220	16.98	16.88	21.60	21.30	-		22.27			-
11a	6Mbps	2	48	5240	16.98	16.83	21.75	21.55	-		22.26			-

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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	52	5260	17.03	16.78	21.60	21.35	23.25		29.25		23.98		-
11a	6Mbps	2	60	5300	16.93	16.83	21.55	21.60	23.26		29.26		23.98		-
11a	6Mbps	2	64	5320	17.03	16.88	21.70	21.70	23.27		29.27		23.98		-

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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
11a	6Mbps	2	100	5500	17.03	16.93	21.75	21.90	23.29		29.29		23.98		----	----
11a	6Mbps	2	116	5580	17.13	16.98	22.00	22.25	23.30		29.30		23.98		----	----
11a	6Mbps	2	140	5700	17.03	16.93	21.85	21.75	23.29		29.29		23.98		----	----

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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
11a	6Mbps	2	144	5720	13.59	13.49	15.85	16.05	22.30		28.30		23.00		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>

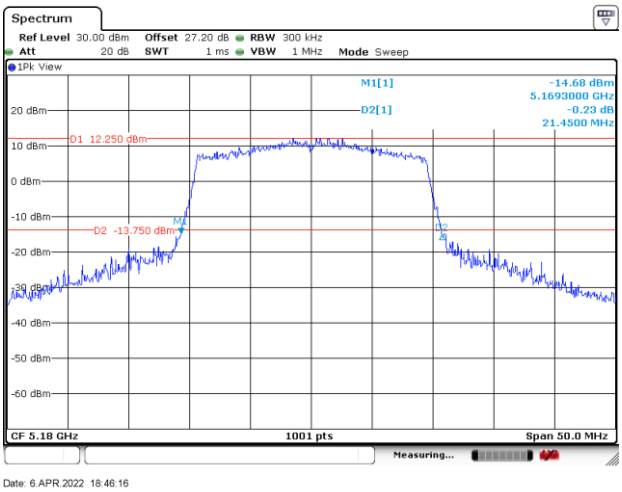
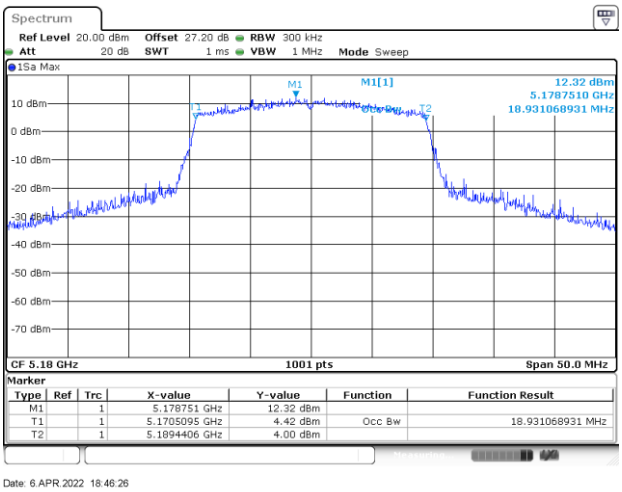
Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		-	Note
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full	18.93	18.98	21.45	21.35	-		22.77		-	-
HE20	MCS0	2	44	5220	Full	18.98	18.98	21.65	21.35	-		22.78			-
HE20	MCS0	2	48	5240	Full	19.03	18.98	21.50	21.40	-		22.78			-
HE40	MCS0	2	38	5190	Full	37.76	37.76	40.05	40.05	-		23.01			-
HE40	MCS0	2	46	5230	Full	37.96	37.96	40.32	39.87	-		23.01			-
HE80	MCS0	2	42	5210	Full	77.08	77.08	82.24	81.76	-		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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS0	2	52	5260	Full	18.98	18.98	21.65	21.30	23.78		29.78		23.98		-
HE20	MCS0	2	60	5300	Full	18.98	18.93	21.95	21.40	23.77		29.77		23.98		-
HE20	MCS0	2	64	5320	Full	18.93	18.93	21.75	21.30	23.77		29.77		23.98		-
HE40	MCS0	2	54	5270	Full	37.96	37.76	40.05	40.05	23.98		30.00		23.98		-
HE40	MCS0	2	62	5310	Full	37.86	37.86	40.05	39.78	23.98		30.00		23.98		-
HE80	MCS0	2	58	5290	Full	77.08	77.08	82.24	82.24	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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS0	2	100	5500	Full	18.93	18.98	21.65	21.50	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.93	18.98	21.75	21.55	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.98	18.93	21.70	21.45	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.96	37.86	40.05	40.14	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	38.06	38.06	40.23	48.51	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.06	38.06	43.56	44.10	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.08	77.08	82.24	81.76	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.32	77.32	86.40	94.56	23.98		30.00		23.98		----	----

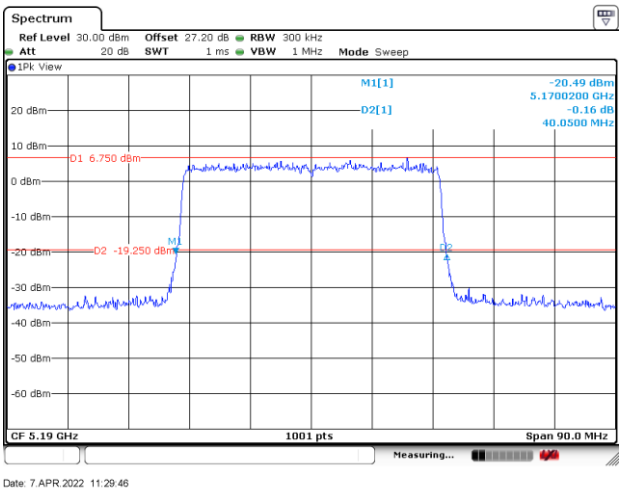
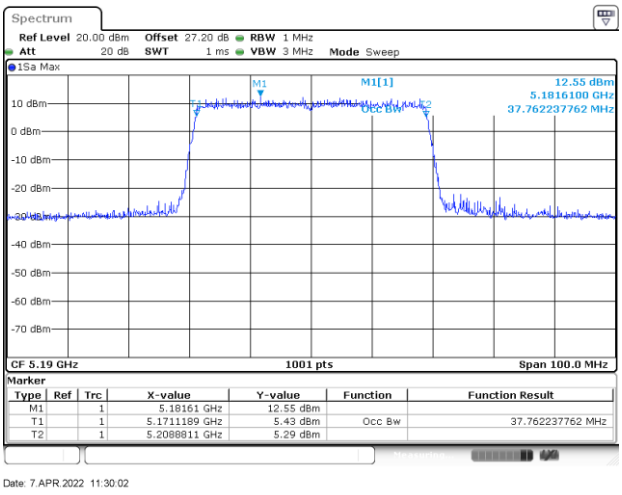
Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS0	2	144	5720	Full	14.49	14.49	15.80	15.85	22.61		28.61		22.99		4.4499	4.5
HE40	MCS0	2	142	5710	Full	34.18	34.18	41.37	44.97	23.98		30.00		23.98		3.9	3.81
HE80	MCS0	2	138	5690	Full	73.72	73.72	78.20	79.64	23.98		30.00		23.98		4.04	3.56

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

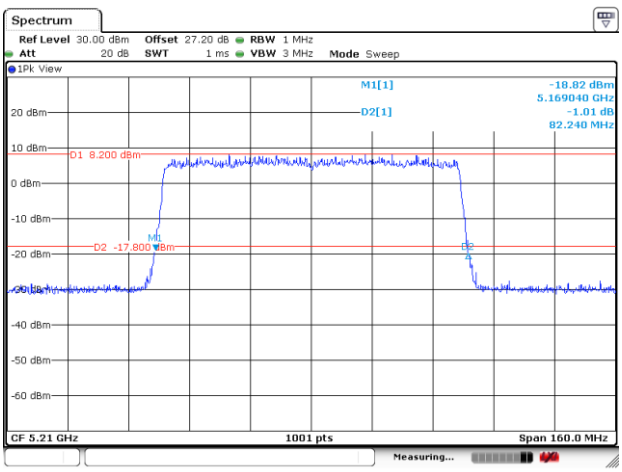
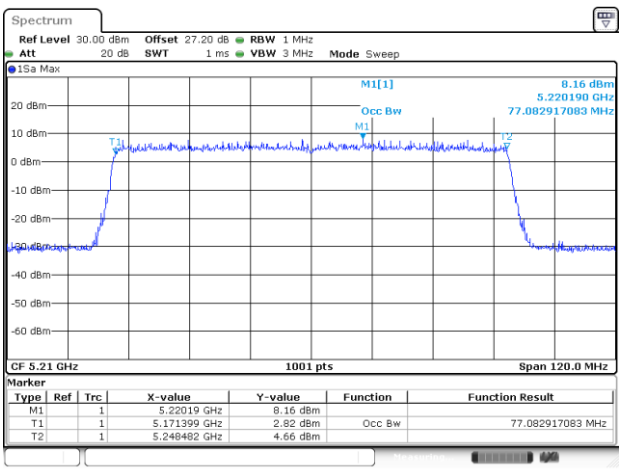
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<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.

<TXBF Modes>

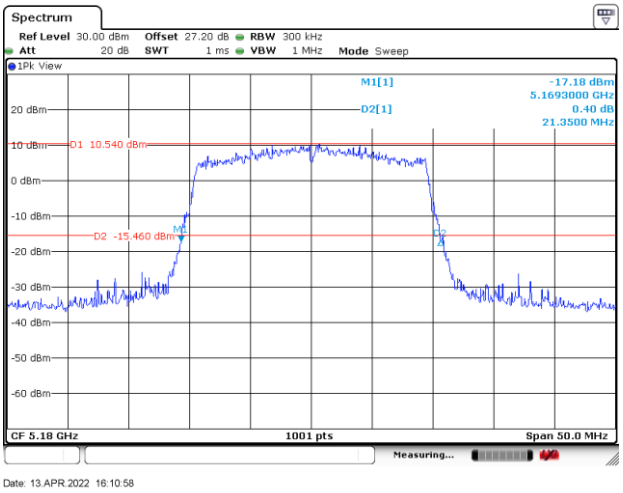
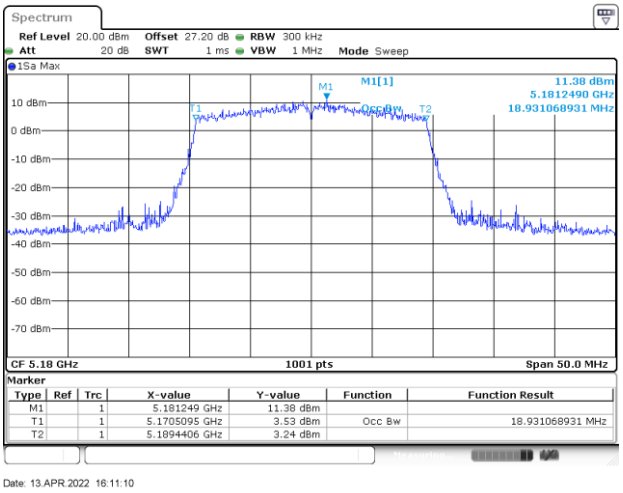
Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		-	Note
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	36	5180	Full	18.93	18.93	21.35	21.25	-		22.77		-	-
HE20	MCS2	2	44	5220	Full	18.93	18.93	21.55	21.65	-		22.77			-
HE20	MCS2	2	48	5240	Full	18.93	18.93	21.50	21.55	-		22.77			-
HE40	MCS0	2	38	5190	Full	37.76	37.76	39.69	39.60	-		23.01			-
HE40	MCS0	2	46	5230	Full	37.86	37.76	47.79	39.69	-		23.01			-
HE80	MCS0	2	42	5210	Full	77.08	77.08	81.92	81.28	-		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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS2	2	52	5260	Full	18.98	18.93	21.20	21.60	23.77		29.77		23.98		-
HE20	MCS2	2	60	5300	Full	18.93	18.93	21.70	21.55	23.77		29.77		23.98		-
HE20	MCS2	2	64	5320	Full	18.93	18.98	21.50	21.40	23.77		29.77		23.98		-
HE40	MCS0	2	54	5270	Full	37.96	37.96	39.69	40.05	23.98		30.00		23.98		-
HE40	MCS0	2	62	5310	Full	37.76	37.86	39.78	39.96	23.98		30.00		23.98		-
HE80	MCS0	2	58	5290	Full	77.08	77.08	81.44	81.76	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 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS2	2	100	5500	Full	18.98	18.93	21.35	21.55	23.77		29.77		23.98		----	----
HE20	MCS2	2	116	5580	Full	18.93	18.93	21.60	21.55	23.77		29.77		23.98		----	----
HE20	MCS2	2	140	5700	Full	18.93	18.93	21.70	21.50	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.96	37.76	39.87	39.60	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.96	39.87	43.02	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.96	37.96	47.43	47.97	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.08	76.96	81.92	81.76	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.08	77.20	102.83	110.83	23.98		30.00		23.98		----	----

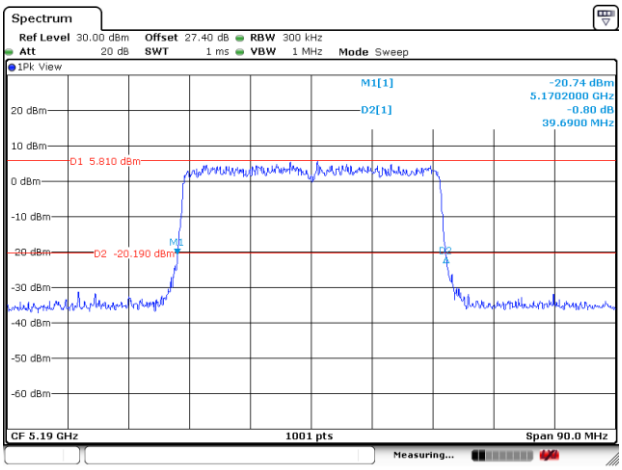
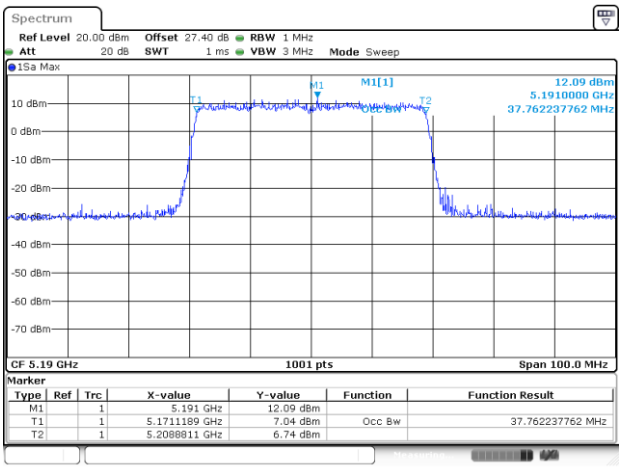
Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS2	2	144	5720	Full	14.49	14.49	15.70	15.70	22.61		28.61		22.96		4.299	3.85
HE40	MCS0	2	142	5710	Full	34.08	33.98	39.57	40.38	23.98		30.00		23.98		3.9	3.54
HE80	MCS0	2	138	5690	Full	73.72	77.20	92.76	93.24	23.98		30.00		23.98		3.56	3.88

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

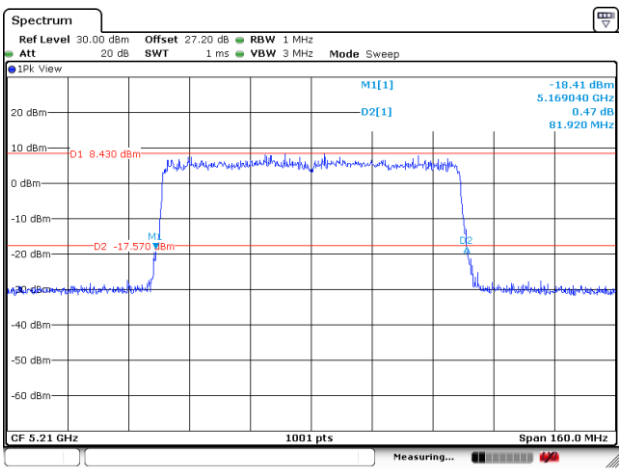
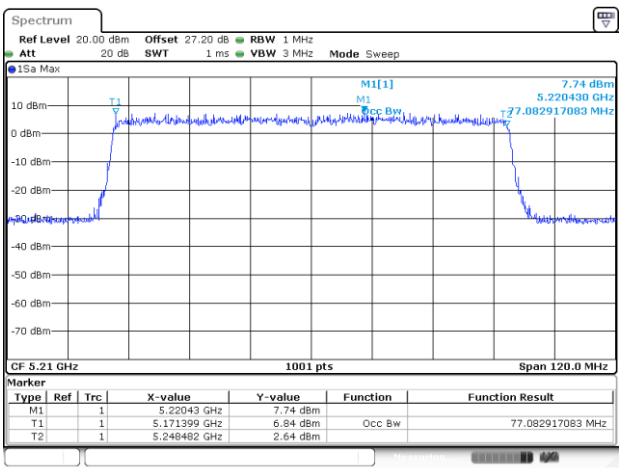
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<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.

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

<CDD 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

<TXBF Modes>

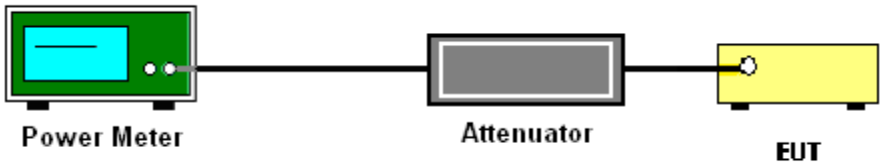
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

Test Engineer :	Benny Ku	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	36	5180	19.20	19.10	22.16	24.00		1.49			Pass
11a	6Mbps	2	44	5220	19.10	19.10	22.11	24.00		1.49			Pass
11a	6Mbps	2	48	5240	19.20	19.20	22.21	24.00		1.49			Pass
HT20	MCS0	2	36	5180	19.10	19.10	22.11	24.00		1.49			Pass
HT20	MCS0	2	44	5220	19.40	19.60	22.51	24.00		1.49			Pass
HT20	MCS0	2	48	5240	19.00	19.10	22.06	24.00		1.49			Pass
HT40	MCS0	2	38	5190	16.10	15.80	18.96	24.00		1.49			Pass
HT40	MCS0	2	46	5230	20.40	20.30	23.36	24.00		1.49		-	Pass
VHT20	MCS0	2	36	5180	19.10	19.10	22.11	24.00		1.49			Pass
VHT20	MCS0	2	44	5220	19.40	19.60	22.51	24.00		1.49			Pass
VHT20	MCS0	2	48	5240	19.00	19.10	22.06	24.00		1.49			Pass
VHT40	MCS0	2	38	5190	16.10	15.80	18.96	24.00		1.49			Pass
VHT40	MCS0	2	46	5230	20.40	20.30	23.36	24.00		1.49			Pass
VHT80	MCS0	2	42	5210	15.30	15.00	18.16	24.00		1.49			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	52	5260	19.20	19.10	22.16	23.98		2.20		30	Pass
11a	6Mbps	2	60	5300	19.20	19.20	22.21	23.98		2.20		30	Pass
11a	6Mbps	2	64	5320	19.20	19.00	22.11	23.98		2.20		30	Pass
HT20	MCS0	2	52	5260	18.80	18.30	21.57	23.98		2.20		30	Pass
HT20	MCS0	2	60	5300	18.70	18.40	21.56	23.98		2.20		30	Pass
HT20	MCS0	2	64	5320	18.80	18.20	21.52	23.98		2.20		30	Pass
HT40	MCS0	2	54	5270	20.30	19.70	23.02	23.98		2.20		30	Pass
HT40	MCS0	2	62	5310	17.70	17.30	20.51	23.98		2.20		30	Pass
VHT20	MCS0	2	52	5260	18.80	18.30	21.57	23.98		2.20		30	Pass
VHT20	MCS0	2	60	5300	18.70	18.40	21.56	23.98		2.20		30	Pass
VHT20	MCS0	2	64	5320	18.80	18.20	21.52	23.98		2.20		30	Pass
VHT40	MCS0	2	54	5270	20.30	19.70	23.02	23.98		2.20		30	Pass
VHT40	MCS0	2	62	5310	17.70	17.30	20.51	23.98		2.20		30	Pass
VHT80	MCS0	2	58	5290	16.90	16.40	19.67	23.98		2.20		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	100	5500	19.50	19.10	22.31	23.98		1.58		30	Pass
11a	6Mbps	2	116	5580	19.40	19.30	22.36	23.98		1.58		30	Pass
11a	6Mbps	2	140	5700	19.00	18.50	21.77	23.98		1.58		30	Pass
HT20	MCS0	2	100	5500	19.10	18.30	21.73	23.98		1.58		30	Pass
HT20	MCS0	2	116	5580	18.90	18.30	21.62	23.98		1.58		30	Pass
HT20	MCS0	2	140	5700	17.30	17.10	20.21	23.98		1.58		30	Pass
HT40	MCS0	2	102	5510	17.90	17.20	20.57	23.98		1.58		30	Pass
HT40	MCS0	2	110	5550	20.40	19.60	23.03	23.98		1.58		30	Pass
HT40	MCS0	2	134	5670	19.30	19.20	22.26	23.98		1.58		30	Pass
VHT20	MCS0	2	100	5500	19.10	18.30	21.73	23.98		1.58		30	Pass
VHT20	MCS0	2	116	5580	18.90	18.30	21.62	23.98		1.58		30	Pass
VHT20	MCS0	2	140	5700	17.30	17.10	20.21	23.98		1.58		30	Pass
VHT40	MCS0	2	102	5510	17.90	17.20	20.57	23.98		1.58		30	Pass
VHT40	MCS0	2	110	5550	20.40	19.60	23.03	23.98		1.58		30	Pass
VHT40	MCS0	2	134	5670	19.30	19.20	22.26	23.98		1.58		30	Pass
VHT80	MCS0	2	106	5530	17.20	16.70	19.97	23.98		1.58		30	Pass
VHT80	MCS0	2	122	5610	20.20	19.80	23.01	23.98		1.58		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	144	5720	19.50	19.10	22.31	23.00		1.58		30	Pass
HT20	MCS0	2	144	5720	18.80	18.40	21.61	23.98		1.58		30	Pass
HT40	MCS0	2	142	5710	20.40	19.90	23.17	23.98		1.58		30	Pass
VHT20	MCS0	2	144	5720	18.80	18.40	21.61	23.98		1.58		30	Pass
VHT40	MCS0	2	142	5710	20.40	19.90	23.17	23.98		1.58		30	Pass
VHT80	MCS0	2	138	5690	20.00	19.80	22.91	23.98		1.58		30	Pass

<802.11ax Mode>

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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full	19.20	19.20	22.21	24.00		1.49			Pass
HE20	MCS0	2	36	5180	26/0	10.00	10.40	13.21	24.00		1.49			Pass
HE20	MCS0	2	36	5180	52/37	13.40	13.40	16.41	24.00		1.49			Pass
HE20	MCS0	2	36	5180	106/53	16.60	16.50	19.56	24.00		1.49			Pass
HE20	MCS0	2	44	5220	Full	19.50	19.70	22.61	24.00		1.49			Pass
HE20	MCS0	2	44	5220	26/4	11.80	11.70	14.76	24.00		1.49			Pass
HE20	MCS0	2	44	5220	52/39	13.70	13.90	16.81	24.00		1.49			Pass
HE20	MCS0	2	44	5220	106/53	16.90	16.90	19.91	24.00		1.49			Pass
HE20	MCS0	2	48	5240	Full	19.10	19.20	22.16	24.00		1.49			Pass
HE20	MCS0	2	48	5240	26/8	10.30	10.30	13.31	24.00		1.49		-	Pass
HE20	MCS0	2	48	5240	52/40	13.50	13.60	16.56	24.00		1.49			Pass
HE20	MCS0	2	48	5240	106/54	16.40	16.30	19.36	24.00		1.49			Pass
HE40	MCS0	2	38	5190	Full	16.20	15.90	19.06	24.00		1.49			Pass
HE40	MCS0	2	38	5190	242/61	13.00	13.30	16.16	24.00		1.49			Pass
HE40	MCS0	2	46	5230	Full	20.50	20.40	23.46	24.00		1.49			Pass
HE40	MCS0	2	46	5230	242/62	17.60	17.10	20.37	24.00		1.49			Pass
HE80	MCS0	2	42	5210	Full	15.40	15.10	18.26	24.00		1.49			Pass
HE80	MCS0	2	42	5210	484/65	11.80	12.00	14.91	24.00		1.49			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	52	5260	Full	18.90	18.40	21.67	23.98		2.20		30	Pass
HE20	MCS0	2	52	5260	26/0	10.70	10.40	13.56	23.98		2.20		30	Pass
HE20	MCS0	2	52	5260	52/37	13.30	12.90	16.11	23.98		2.20		30	Pass
HE20	MCS0	2	52	5260	106/53	16.80	16.10	19.47	23.98		2.20		30	Pass
HE20	MCS0	2	60	5300	Full	18.80	18.50	21.66	23.98		2.20		30	Pass
HE20	MCS0	2	60	5300	26/4	11.30	11.20	14.26	23.98		2.20		30	Pass
HE20	MCS0	2	60	5300	52/39	13.40	13.30	16.36	23.98		2.20		30	Pass
HE20	MCS0	2	60	5300	106/54	16.50	16.10	19.31	23.98		2.20		30	Pass
HE20	MCS0	2	64	5320	Full	18.90	18.30	21.62	23.98		2.20		30	Pass
HE20	MCS0	2	64	5320	26/8	10.70	10.20	13.47	23.98		2.20		30	Pass
HE20	MCS0	2	64	5320	52/40	13.30	12.90	16.11	23.98		2.20		30	Pass
HE20	MCS0	2	64	5320	106/54	16.70	16.10	19.42	23.98		2.20		30	Pass
HE40	MCS0	2	54	5270	Full	20.40	19.80	23.12	23.98		2.20		30	Pass
HE40	MCS0	2	54	5270	242/61	17.20	16.90	20.06	23.98		2.20		30	Pass
HE40	MCS0	2	62	5310	Full	17.80	17.40	20.61	23.98		2.20		30	Pass
HE40	MCS0	2	62	5310	242/62	14.50	14.30	17.41	23.98		2.20		30	Pass
HE80	MCS0	2	58	5290	Full	17.00	16.50	19.77	23.98		2.20		30	Pass
HE80	MCS0	2	58	5290	484/66	13.60	13.30	16.46	23.98		2.20		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	100	5500	Full	19.20	18.40	21.83	23.98		1.58		30	Pass
HE20	MCS0	2	100	5500	26/0	11.00	10.80	13.91	23.98		1.58		30	Pass
HE20	MCS0	2	100	5500	52/37	13.80	13.40	16.61	23.98		1.58		30	Pass
HE20	MCS0	2	100	5500	106/53	17.10	16.40	19.77	23.98		1.58		30	Pass
HE20	MCS0	2	116	5580	Full	19.00	18.40	21.72	23.98		1.58		30	Pass
HE20	MCS0	2	116	5580	26/4	11.60	11.80	14.71	23.98		1.58		30	Pass
HE20	MCS0	2	116	5580	52/38	13.60	13.70	16.66	23.98		1.58		30	Pass
HE20	MCS0	2	116	5580	106/53	16.80	16.40	19.61	23.98		1.58		30	Pass
HE20	MCS0	2	140	5700	Full	17.40	17.20	20.31	23.98		1.58		30	Pass
HE20	MCS0	2	140	5700	26/8	8.80	8.90	11.86	23.98		1.58		30	Pass
HE20	MCS0	2	140	5700	52/40	11.80	12.00	14.91	23.98		1.58		30	Pass
HE20	MCS0	2	140	5700	106/54	15.10	15.10	18.11	23.98		1.58		30	Pass
HE40	MCS0	2	102	5510	Full	18.00	17.30	20.67	23.98		1.58		30	Pass
HE40	MCS0	2	102	5510	242/61	14.70	14.40	17.56	23.98		1.58		30	Pass
HE40	MCS0	2	110	5550	Full	20.50	19.70	23.13	23.98		1.58		30	Pass
HE40	MCS0	2	110	5550	242/61	17.40	17.00	20.21	23.98		1.58		30	Pass
HE40	MCS0	2	134	5670	Full	19.40	19.30	22.36	23.98		1.58		30	Pass
HE40	MCS0	2	134	5670	242/62	16.50	16.60	19.56	23.98		1.58		30	Pass
HE80	MCS0	2	106	5530	Full	17.30	16.80	20.07	23.98		1.58		30	Pass
HE80	MCS0	2	106	5530	484/65	13.70	13.30	16.51	23.98		1.58		30	Pass
HE80	MCS0	2	122	5610	Full	20.30	19.90	23.11	23.98		1.58		30	Pass
HE80	MCS0	2	122	5610	484/66	16.90	16.70	19.81	23.98		1.58		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	144	5720	Full	18.90	18.50	21.71	22.99		1.58		30	Pass
HE20	MCS0	2	144	5720	26/8	10.40	10.30	13.36	22.99		1.58		30	Pass
HE20	MCS0	2	144	5720	52/40	13.40	13.30	16.36	22.99		1.58		30	Pass
HE20	MCS0	2	144	5720	106/54	16.80	16.40	19.61	22.99		1.58		30	Pass
HE40	MCS0	2	142	5710	Full	20.50	20.00	23.27	23.98		1.58		30	Pass
HE40	MCS0	2	142	5710	242/62	17.50	16.90	20.22	23.98		1.58		30	Pass
HE80	MCS0	2	138	5690	Full	20.10	19.90	23.01	23.98		1.58		30	Pass
HE80	MCS0	2	138	5690	484/66	16.70	16.30	19.51	23.98		1.58		30	Pass

<TXBF Modes>

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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HT20	MCS2	2	36	5180	17.40	17.30	20.36	24.00		4.43			Pass
HT20	MCS2	2	44	5220	17.40	17.20	20.31	24.00		4.43			Pass
HT20	MCS2	2	48	5240	17.30	17.50	20.41	24.00		4.43		-	Pass
HT40	MCS0	2	38	5190	16.00	15.70	18.86	24.00		4.43			Pass
HT40	MCS0	2	46	5230	20.40	20.10	23.26	24.00		4.43			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HT20	MCS2	2	52	5260	17.70	17.40	20.56	23.98		4.55		30	Pass
HT20	MCS2	2	60	5300	18.20	17.80	21.01	23.98		4.55		30	Pass
HT20	MCS2	2	64	5320	17.70	17.20	20.47	23.98		4.55		30	Pass
HT40	MCS0	2	54	5270	20.40	20.10	23.26	23.98		4.55		30	Pass
HT40	MCS0	2	62	5310	16.90	16.50	19.71	23.98		4.55		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HT20	MCS2	2	100	5500	17.90	17.40	20.67	23.98		4.37		30	Pass
HT20	MCS2	2	116	5580	17.80	17.50	20.66	23.98		4.37		30	Pass
HT20	MCS2	2	140	5700	17.50	17.40	20.46	23.98		4.37		30	Pass
HT40	MCS0	2	102	5510	17.90	17.00	20.48	23.98		4.37		30	Pass
HT40	MCS0	2	110	5550	20.40	19.60	23.03	23.98		4.37		30	Pass
HT40	MCS0	2	134	5670	19.20	19.00	22.11	23.98		4.37		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HT20	MCS2	2	144	5720	17.70	17.40	20.56	23.98		4.37		30	Pass
HT40	MCS0	2	142	5710	20.40	19.90	23.17	23.98		4.37		30	Pass

<802.11ax Mode>

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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	36	5180	Full	17.50	17.40	20.46	24.00		4.43		-	Pass
HE20	MCS2	2	44	5220	Full	17.50	17.30	20.41	24.00		4.43			Pass
HE20	MCS2	2	48	5240	Full	17.40	17.60	20.51	24.00		4.43			Pass
HE40	MCS0	2	38	5190	Full	16.10	15.80	18.96	24.00		4.43			Pass
HE40	MCS0	2	46	5230	Full	20.50	20.20	23.36	24.00		4.43			Pass
HE80	MCS0	2	42	5210	Full	16.10	15.90	19.01	24.00		4.43			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	52	5260	Full	17.80	17.50	20.66	23.98		4.55		30	Pass
HE20	MCS2	2	60	5300	Full	18.30	17.90	21.11	23.98		4.55		30	Pass
HE20	MCS2	2	64	5320	Full	17.80	17.30	20.57	23.98		4.55		30	Pass
HE40	MCS0	2	54	5270	Full	20.50	20.20	23.36	23.98		4.55		30	Pass
HE40	MCS0	2	62	5310	Full	17.00	16.60	19.81	23.98		4.55		30	Pass
HE80	MCS0	2	58	5290	Full	16.60	16.20	19.41	23.98		4.55		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	100	5500	Full	18.00	17.50	20.77	23.98		4.37		30	Pass
HE20	MCS2	2	116	5580	Full	17.90	17.60	20.76	23.98		4.37		30	Pass
HE20	MCS2	2	140	5700	Full	17.60	17.50	20.56	23.98		4.37		30	Pass
HE40	MCS0	2	102	5510	Full	18.00	17.10	20.58	23.98		4.37		30	Pass
HE40	MCS0	2	110	5550	Full	20.50	19.70	23.13	23.98		4.37		30	Pass
HE40	MCS0	2	134	5670	Full	19.30	19.10	22.21	23.98		4.37		30	Pass
HE80	MCS0	2	106	5530	Full	17.30	16.90	20.11	23.98		4.37		30	Pass
HE80	MCS0	2	122	5610	Full	20.20	19.30	22.78	23.98		4.37		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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	144	5720	Full	17.80	17.50	20.66	22.96		4.37		30	Pass
HE40	MCS0	2	142	5710	Full	20.50	20.00	23.27	23.98		4.37		30	Pass
HE80	MCS0	2	138	5690	Full	20.10	19.30	22.73	23.98		4.37		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):

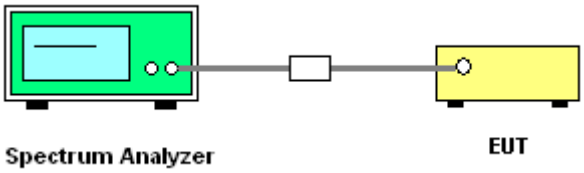
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which 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 stabilize.

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

Test Engineer :	Benny Ku	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

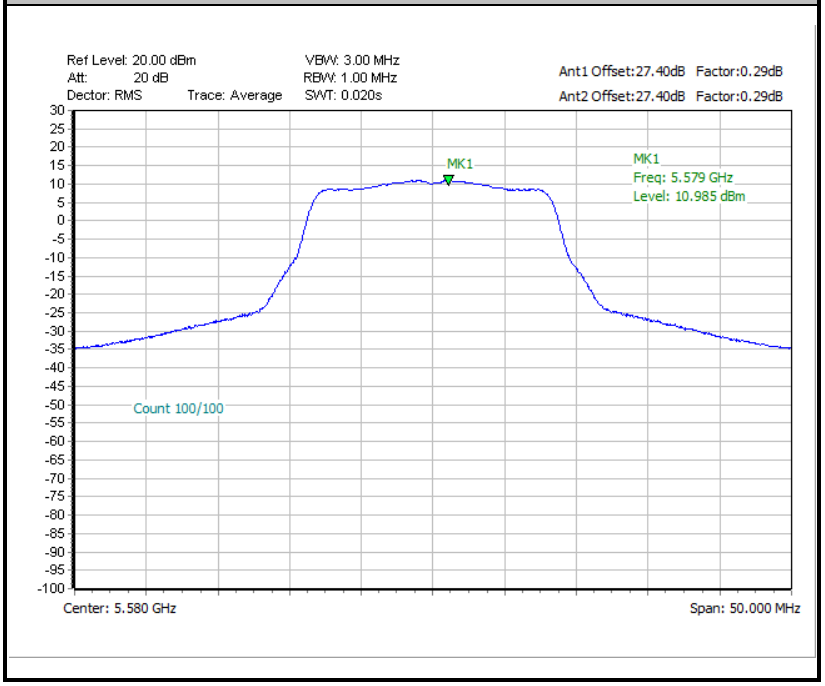
FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	36	5180	-		10.94	11.00		4.43		-	Pass
11a	6Mbps	2	44	5220			10.83	11.00		4.43			Pass
11a	6Mbps	2	48	5240			10.89	11.00		4.43			Pass

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	52	5260	-		10.82	11.00		4.55		-	Pass
11a	6Mbps	2	60	5300			10.73	11.00		4.55			Pass
11a	6Mbps	2	64	5320			10.72	11.00		4.55			Pass

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	100	5500	-		10.98	11.00		4.37		-	Pass
11a	6Mbps	2	116	5580			10.99	11.00		4.37			Pass
11a	6Mbps	2	140	5700			10.25	11.00		4.37			Pass

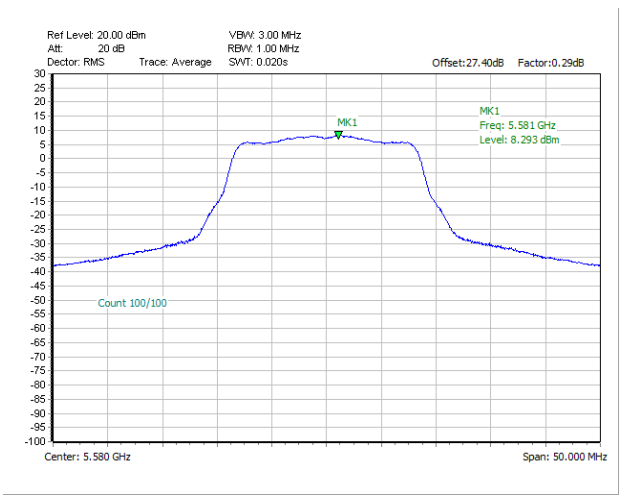
Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	144	5720	-		10.91	11.00		4.37		-	Pass

Maximum Power Density Plot (dBm/MHz)

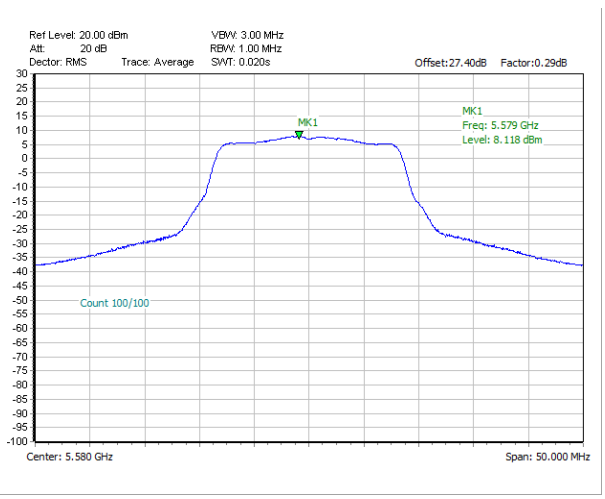


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 6)



Maximum Power Density Plot Trace 2 (Ant 7)



<802.11ax Mode>

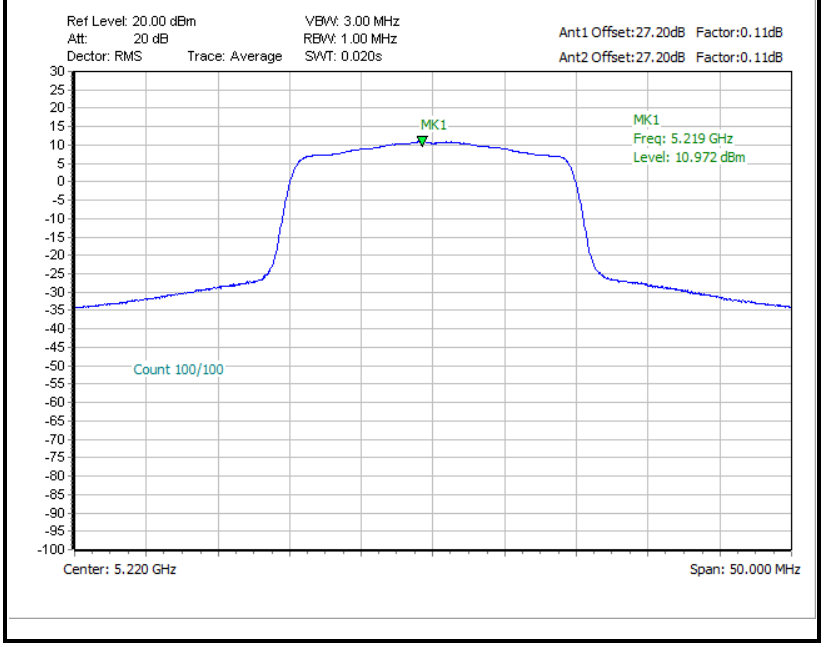
FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full	-		10.59	11.00		4.43		-	Pass
HE20	MCS0	2	36	5180	26/0			10.16	11.00		4.43			Pass
HE20	MCS0	2	36	5180	52/37			10.39	11.00		4.43			Pass
HE20	MCS0	2	36	5180	106/53			10.40	11.00		4.43			Pass
HE20	MCS0	2	44	5220	Full			10.97	11.00		4.43			Pass
HE20	MCS0	2	44	5220	26/4			10.60	11.00		4.43			Pass
HE20	MCS0	2	44	5220	52/39			10.69	11.00		4.43			Pass
HE20	MCS0	2	44	5220	106/53			10.73	11.00		4.43			Pass
HE20	MCS0	2	48	5240	Full			10.66	11.00		4.43			Pass
HE20	MCS0	2	48	5240	26/8			10.46	11.00		4.43			Pass
HE20	MCS0	2	48	5240	52/40			10.58	11.00		4.43			Pass
HE20	MCS0	2	48	5240	106/54			10.23	11.00		4.43			Pass
HE40	MCS0	2	38	5190	Full			3.98	11.00		4.43			Pass
HE40	MCS0	2	38	5190	242/61			3.73	11.00		4.43			Pass
HE40	MCS0	2	46	5230	Full			8.51	11.00		4.43			Pass
HE40	MCS0	2	46	5230	242/62			8.25	11.00		4.43			Pass
HE80	MCS0	2	42	5210	Full			0.35	11.00		4.43			Pass
HE80	MCS0	2	42	5210	484/65			0.32	11.00		4.43			Pass

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	52	5260	Full	-		10.78	11.00		4.55		-	Pass
HE20	MCS0	2	52	5260	26/0			10.64	11.00		4.55			Pass
HE20	MCS0	2	52	5260	52/37			10.31	11.00		4.55			Pass
HE20	MCS0	2	52	5260	106/53			10.38	11.00		4.55			Pass
HE20	MCS0	2	60	5300	Full			10.70	11.00		4.55			Pass
HE20	MCS0	2	60	5300	26/4			10.27	11.00		4.55			Pass
HE20	MCS0	2	60	5300	52/39			10.42	11.00		4.55			Pass
HE20	MCS0	2	60	5300	106/54			10.28	11.00		4.55			Pass
HE20	MCS0	2	64	5320	Full			10.79	11.00		4.55			Pass
HE20	MCS0	2	64	5320	26/8			10.53	11.00		4.55			Pass
HE20	MCS0	2	64	5320	52/40			10.25	11.00		4.55			Pass
HE20	MCS0	2	64	5320	106/54			10.32	11.00		4.55			Pass
HE40	MCS0	2	54	5270	Full			8.00	11.00		4.55			Pass
HE40	MCS0	2	54	5270	242/61			7.66	11.00		4.55			Pass
HE40	MCS0	2	62	5310	Full			5.30	11.00		4.55			Pass
HE40	MCS0	2	62	5310	242/62			4.96	11.00		4.55			Pass
HE80	MCS0	2	58	5290	Full			1.63	11.00		4.55			Pass
HE80	MCS0	2	58	5290	484/66			1.33	11.00		4.55			Pass

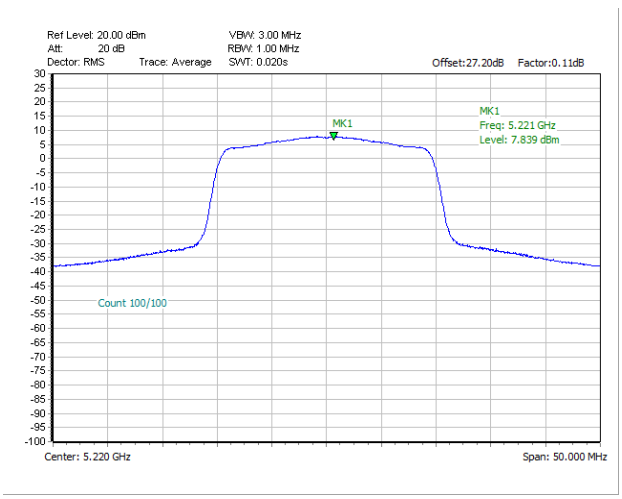
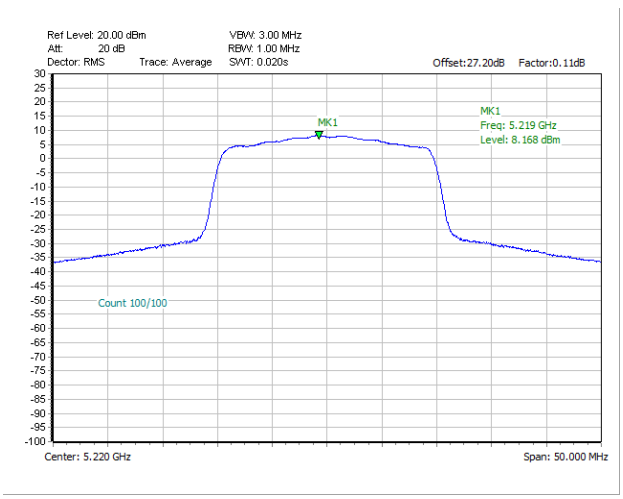
Band III MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	100	5500	Full	-		10.81	11.00		4.37		-	Pass
HE20	MCS0	2	100	5500	26/0			10.80	11.00		4.37			Pass
HE20	MCS0	2	100	5500	52/37			10.57	11.00		4.37			Pass
HE20	MCS0	2	100	5500	106/53			10.47	11.00		4.37			Pass
HE20	MCS0	2	116	5580	Full			10.86	11.00		4.37			Pass
HE20	MCS0	2	116	5580	26/4			10.60	11.00		4.37			Pass
HE20	MCS0	2	116	5580	52/38			10.69	11.00		4.37			Pass
HE20	MCS0	2	116	5580	106/53			10.49	11.00		4.37			Pass
HE20	MCS0	2	140	5700	Full			9.35	11.00		4.37			Pass
HE20	MCS0	2	140	5700	26/8			8.98	11.00		4.37			Pass
HE20	MCS0	2	140	5700	52/40			9.02	11.00		4.37			Pass
HE20	MCS0	2	140	5700	106/54			9.03	11.00		4.37			Pass
HE40	MCS0	2	102	5510	Full			5.29	11.00		4.37			Pass
HE40	MCS0	2	102	5510	242/61			5.09	11.00		4.37			Pass
HE40	MCS0	2	110	5550	Full			7.95	11.00		4.37			Pass
HE40	MCS0	2	110	5550	242/61			7.84	11.00		4.37			Pass
HE40	MCS0	2	134	5670	Full			7.36	11.00		4.37			Pass
HE40	MCS0	2	134	5670	242/62			7.21	11.00		4.37			Pass
HE80	MCS0	2	106	5530	Full			2.33	11.00		4.37			Pass
HE80	MCS0	2	106	5530	484/65			1.96	11.00		4.37			Pass
HE80	MCS0	2	122	5610	Full			5.34	11.00		4.37			Pass
HE80	MCS0	2	122	5610	484/66			5.33	11.00		4.37			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	144	5720	Full	-		10.83	11.00		4.37		-	Pass
HE40	MCS0	2	144	5720	26/8			10.52	11.00		4.37			Pass
HE40	MCS0	2	144	5720	52/40			10.58	11.00		4.37			Pass
HE40	MCS0	2	144	5720	106/54			10.54	11.00		4.37			Pass
HE40	MCS0	2	142	5710	Full			8.18	11.00		4.37			Pass
HE40	MCS0	2	142	5710	242/62			7.88	11.00		4.37			Pass
HE80	MCS0	2	138	5690	Full			5.04	11.00		4.37			Pass
HE80	MCS0	2	138	5690	484/66			4.72	11.00		4.37			Pass

Maximum Power Density Plot (dBm/MHz)



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

Maximum Power Density Plot Trace 1 (Ant 6)	Maximum Power Density Plot Trace 2 (Ant 7)
	

<TXBF Modes>

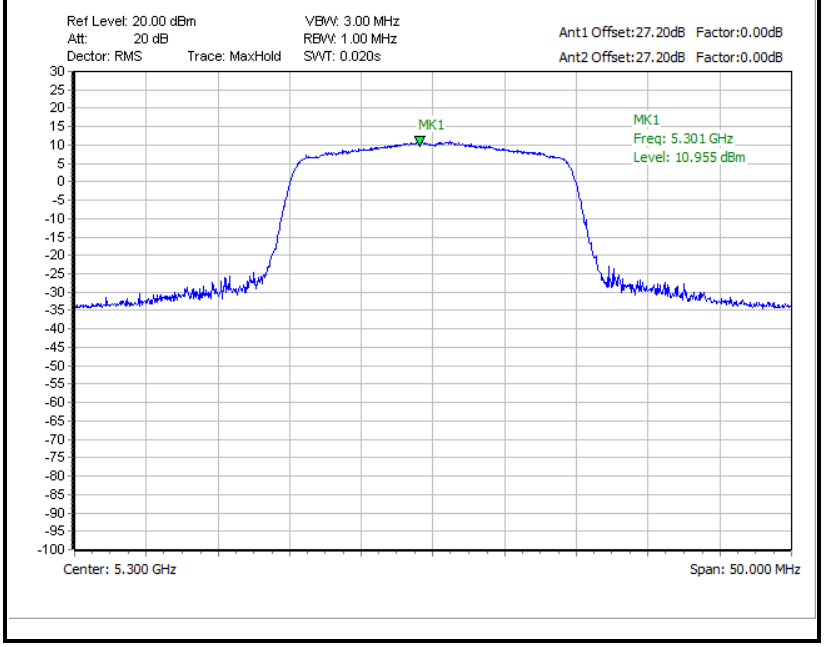
FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	36	5180	Full	-		10.70	11.00		4.43		-	Pass
HE20	MCS2	2	44	5220	Full			10.69	11.00		4.43			Pass
HE20	MCS2	2	48	5240	Full			10.57	11.00		4.43			Pass
HE40	MCS0	2	38	5190	Full			5.40	11.00		4.43			Pass
HE40	MCS0	2	46	5230	Full			9.82	11.00		4.43			Pass
HE80	MCS0	2	42	5210	Full			2.31	11.00		4.43			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	52	5260	Full	-		10.78	11.00		4.55		-	Pass
HE20	MCS2	2	60	5300	Full			10.96	11.00		4.55			Pass
HE20	MCS2	2	64	5320	Full			10.59	11.00		4.55			Pass
HE40	MCS0	2	54	5270	Full			9.76	11.00		4.55			Pass
HE40	MCS0	2	62	5310	Full			5.97	11.00		4.55			Pass
HE80	MCS0	2	58	5290	Full			2.88	11.00		4.55			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 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	100	5500	Full	-		10.74	11.00		4.37		-	Pass
HE20	MCS2	2	116	5580	Full			10.76	11.00		4.37			Pass
HE20	MCS2	2	140	5700	Full			10.83	11.00		4.37			Pass
HE40	MCS0	2	102	5510	Full			6.71	11.00		4.37			Pass
HE40	MCS0	2	110	5550	Full			8.99	11.00		4.37			Pass
HE40	MCS0	2	134	5670	Full			8.29	11.00		4.37			Pass
HE80	MCS0	2	106	5530	Full			3.86	11.00		4.37			Pass
HE80	MCS0	2	122	5610	Full			5.70	11.00		4.37			Pass

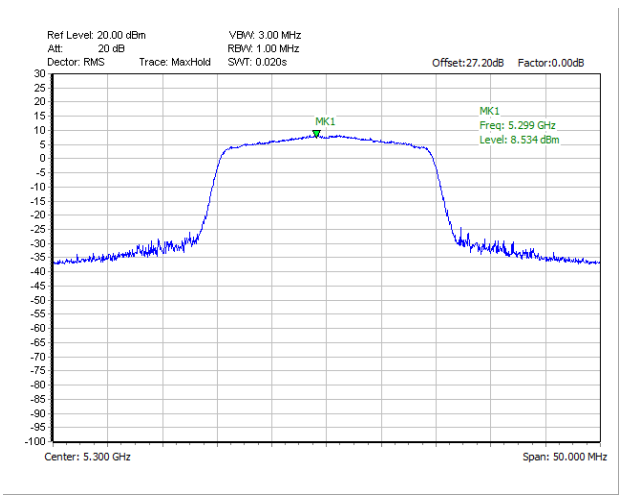
Band III straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS2	2	144	5720	Full	-		10.74	11.00		4.37		-	Pass
HE40	MCS0	2	142	5710	Full			9.62	11.00		4.37			Pass
HE80	MCS0	2	138	5690	Full			5.53	11.00		4.37			Pass

Maximum Power Density Plot (dBm/MHz)

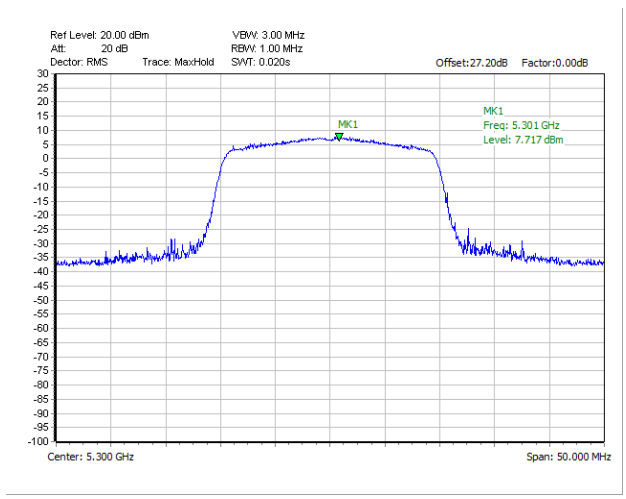


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 6)



Maximum Power Density Plot Trace 2 (Ant 7)



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

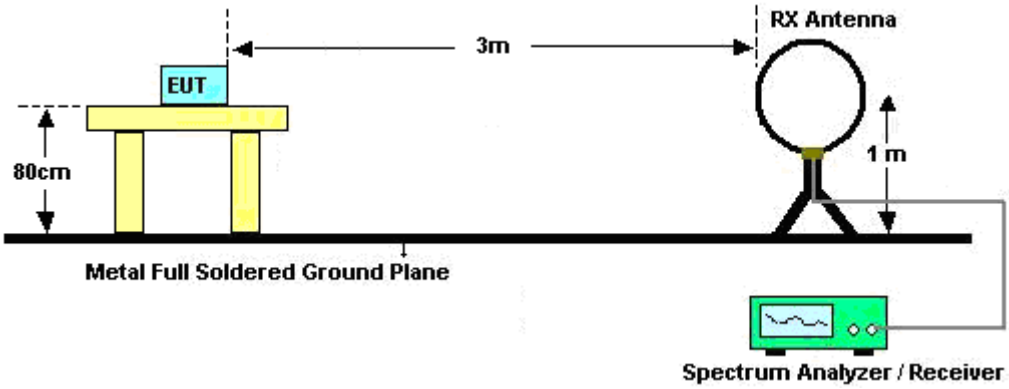
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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 "-".

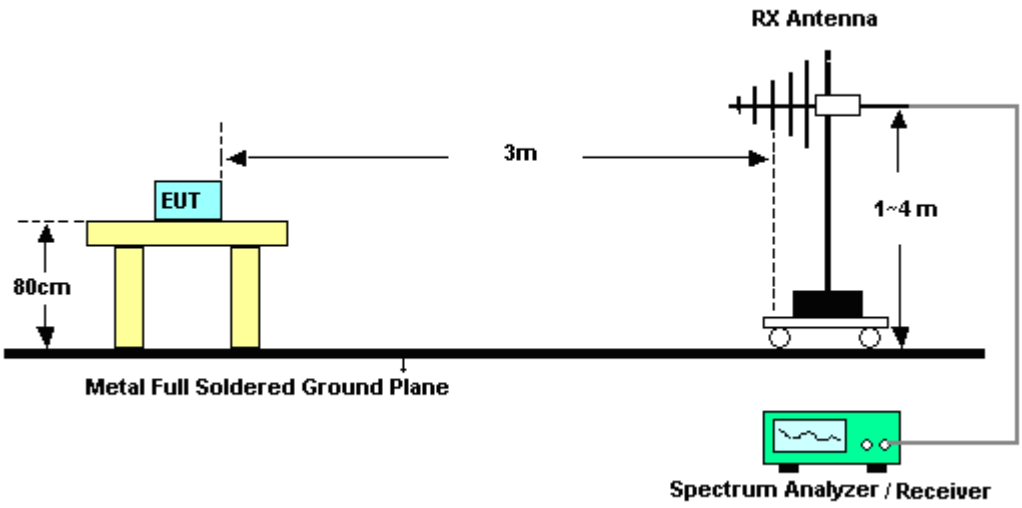
3.4.4 Test Setup

For radiated emissions below 30MHz

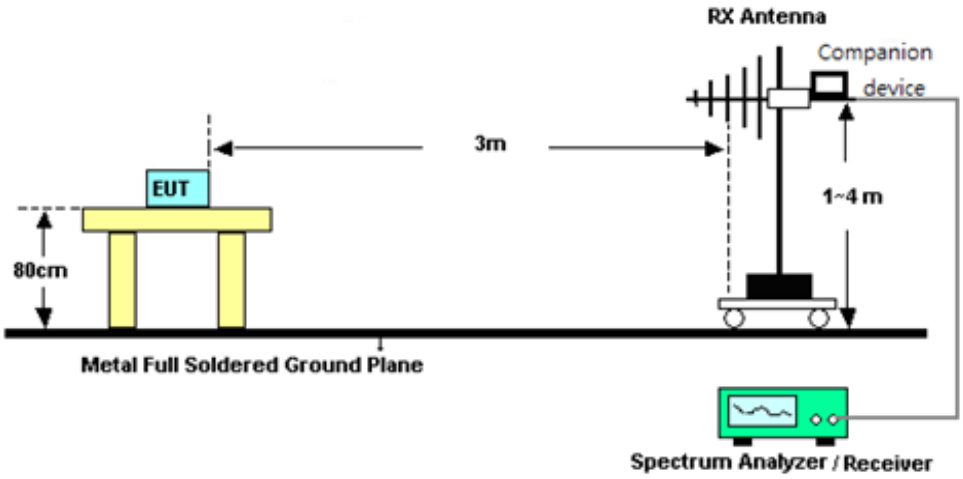


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

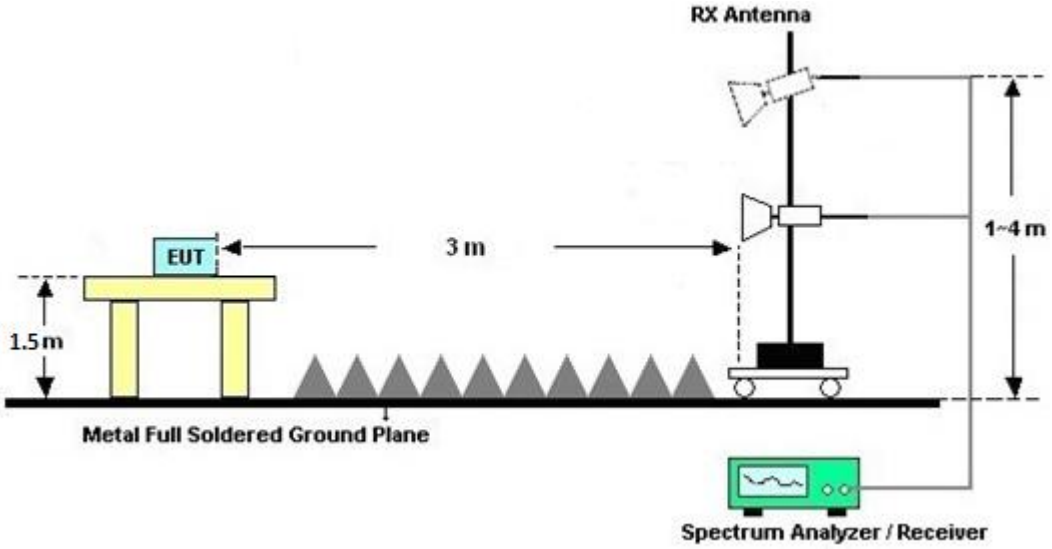


<TXBF Modes>

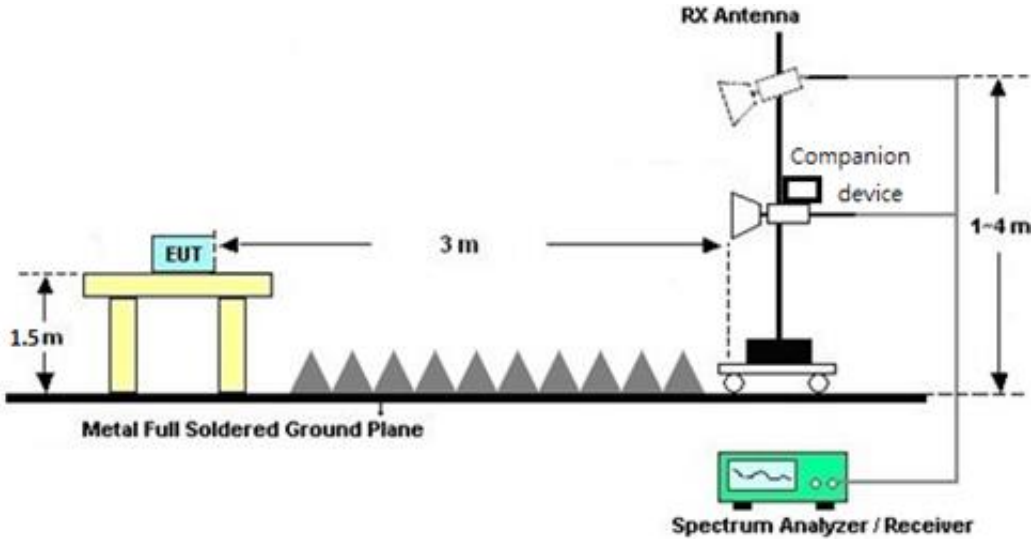


For radiated test from 1GHz to 18GHz

<CDD Mode>

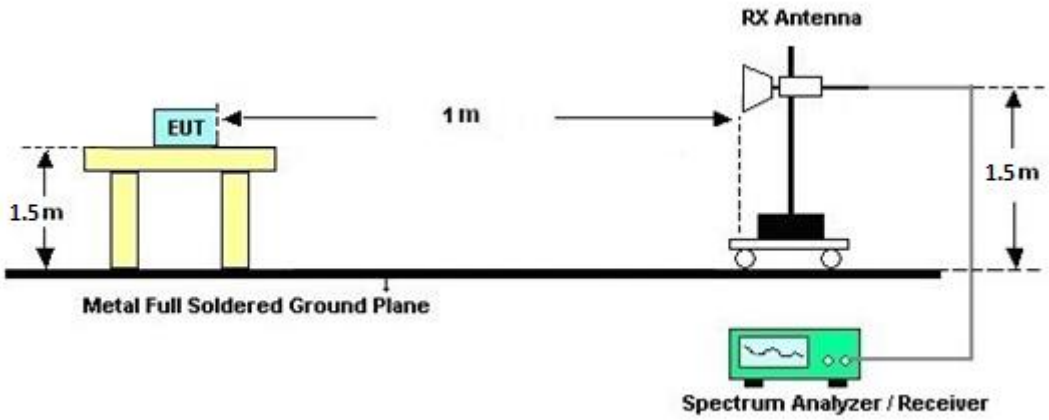


<TXBF Modes>

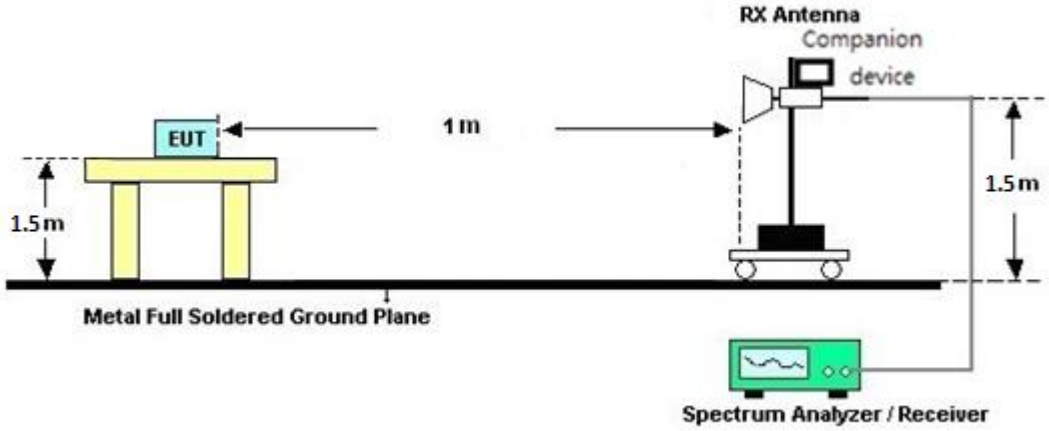


For radiated test above 18GHz

<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 C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

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.

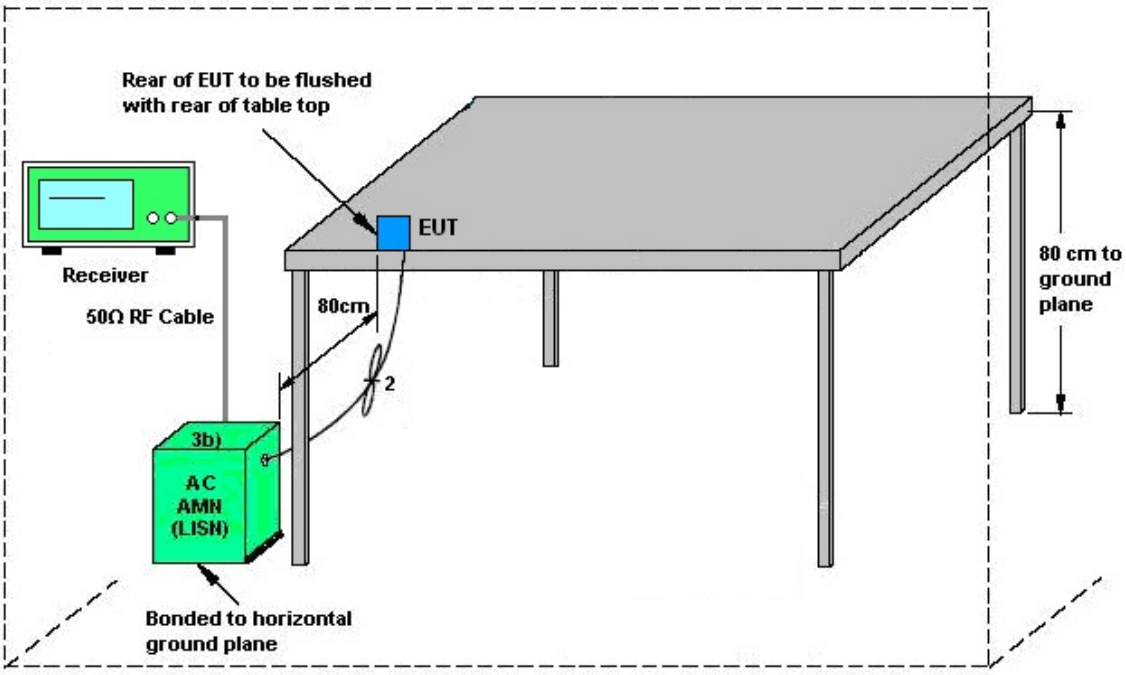
3.5.2 Measuring Instruments

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 power measurements on IEEE 802.11 devices,

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

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

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

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

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.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

For example: If a device has two antenna, G_{ANT1}= 3.6dBi; G_{ANT2}=4.2dBi

Directional gain of power measurement = max(3.6, 4.2) + 0 = 4.2 dBi

Directional gain of PSD measurement = $10 * \log[(10^{3.6/20} + 10^{4.2/20})^2 / 2]$ = 6.92 dBi

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

<CDD Modes>						
	Ant. 6 (dBi)	Ant. 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	1.35	1.49	1.49	4.43	0.00	0.00
Band II	0.82	2.20	2.20	4.55	0.00	0.00
Band III	1.14	1.58	1.58	4.37	0.00	0.00

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

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

Calculation example:

For the Band IV, the DG for PSD is derived from formula is

10 x log { { [10^ (1.35 dBi / 20) + 10^ (1.49 dBi / 20)] ^ 2 } / 2 }

= 4.43 dBi

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 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 6 (dBi)	Ant 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	1.35	1.49	4.43	4.43	0.00	0.00
Band II	0.82	2.20	4.55	4.55	0.00	0.00
Band III	1.14	1.58	4.37	4.37	0.00	0.00

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

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

Calculation example:

For the Band IV, the DG for PSD is derived from formula is

10 x log { { [10^ (1.35 dBi / 20) + 10^ (1.49 dBi / 20)] ^ 2 } / 2 }

= 4.43 dBi

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	Mar. 25, 2022~ Apr. 22, 2022	Sep. 06, 2022	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Mar. 25, 2022~ Apr. 22, 2022	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 04, 2021	Mar. 25, 2022~ Apr. 22, 2022	Aug. 03, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz ~40GHz	Nov. 30, 2021	Mar. 25, 2022~ Apr. 22, 2022	Nov. 29, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 05. 2021	Mar. 25, 2022~ Apr. 22, 2022	Jul. 04. 2022	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 09, 2021	Mar. 25, 2022~ Apr. 22, 2022	Jul. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Mar. 25, 2022~ Apr. 22, 2022	Jun. 21, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09,.2021	Mar. 25, 2022~ Apr. 22, 2022	Dec. 08,.2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec.15,.2021	Mar. 25, 2022~ Apr. 22, 2022	Dec. 14,.2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 28, 2021	Mar. 25, 2022~ Apr. 22, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 28, 2021	Mar. 25, 2022~ Apr. 22, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 28, 2021	Mar. 25, 2022~ Apr. 22, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Mar. 25, 2022~ Apr. 22, 2022	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 25, 2022~ Apr. 22, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 25, 2022~ Apr. 22, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 25, 2022~ Apr. 22, 2022	N/A	Radiation (03CH16-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Apr. 23, 2022	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 23, 2022	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 29, 2021	Apr. 23, 2022	Oct. 28, 2022	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Apr. 23, 2022	Mar. 15, 2023	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 16, 2022	Apr. 23, 2022	Feb. 15, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Fed. 24, 2022	Apr. 23, 2022	Feb. 23, 2023	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16. 2021	Mar. 23, 2022~ Apr. 15, 2022	Nov. 15. 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Mar. 23, 2022~ Apr. 15, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Mar. 23, 2022~ Apr. 15, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Mainframe	E-IUSTRUMENT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Mar. 23, 2022~ Apr. 15, 2022	Aug. 11, 2022	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.3 dB

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

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

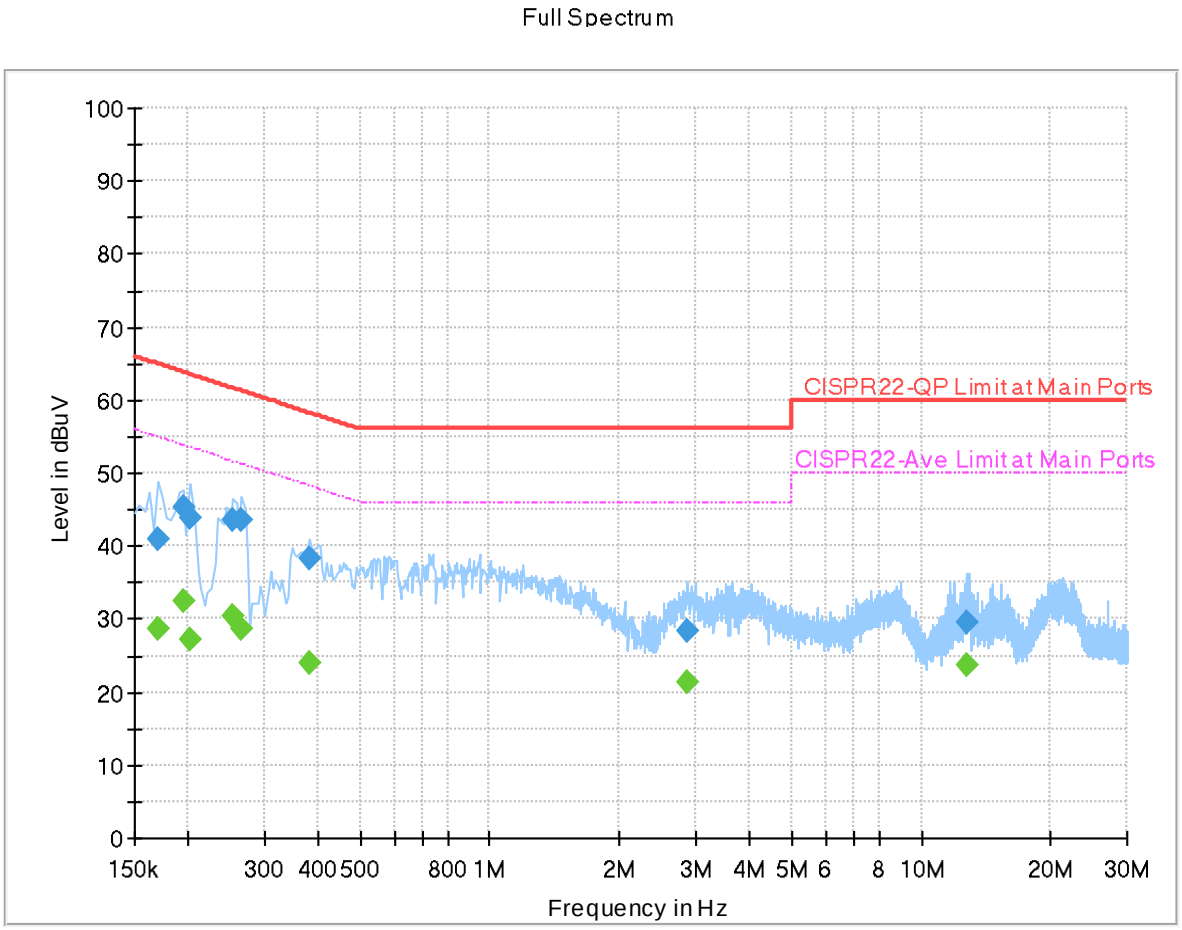
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.8 dB

Appendix A. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	28.6~29.5℃
		Relative Humidity :	43.9~46.7%

EUT Information

Report NO :	222224
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

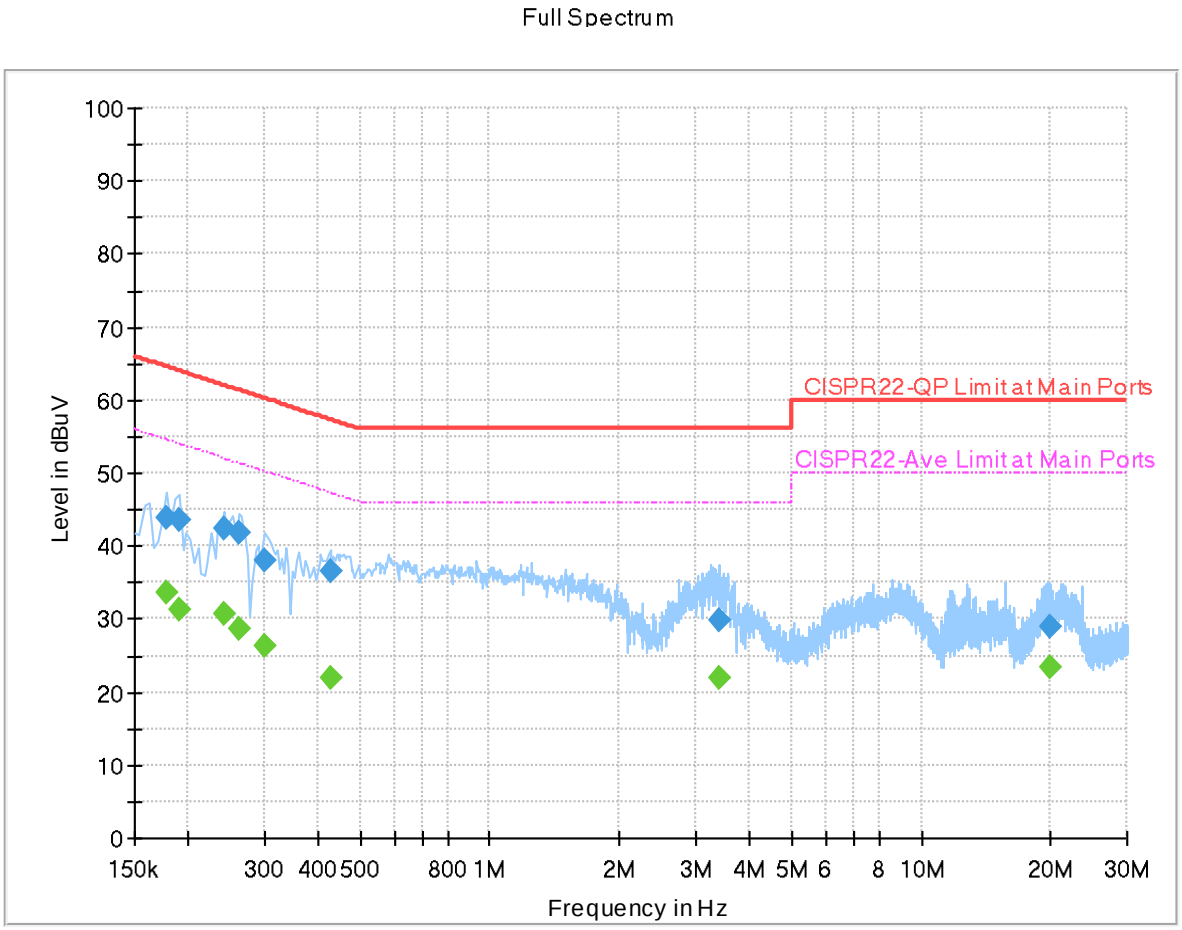


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170000	---	28.66	54.96	26.30	N	OFF	20.0
0.170000	40.80	---	64.96	24.16	N	OFF	20.0
0.194000	---	32.31	53.86	21.55	N	OFF	20.0
0.194000	45.31	---	63.86	18.55	N	OFF	20.0
0.202000	---	27.30	53.53	26.23	N	OFF	20.0
0.202000	43.81	---	63.53	19.72	N	OFF	20.0
0.254000	---	30.38	51.63	21.25	N	OFF	20.0
0.254000	43.44	---	61.63	18.19	N	OFF	20.0
0.266000	---	28.56	51.24	22.68	N	OFF	20.0
0.266000	43.52	---	61.24	17.72	N	OFF	20.0
0.382000	---	24.12	48.24	24.12	N	OFF	20.0
0.382000	38.42	---	58.24	19.82	N	OFF	20.0
2.878000	---	21.30	46.00	24.70	N	OFF	20.0
2.878000	28.22	---	56.00	27.78	N	OFF	20.0
12.694000	---	23.66	50.00	26.34	N	OFF	20.2
12.694000	29.49	---	60.00	30.51	N	OFF	20.2

EUT Information

Report NO :	222224
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.178000	---	33.48	54.58	21.10	L1	OFF	20.0
0.178000	43.99	---	64.58	20.59	L1	OFF	20.0
0.190000	---	31.21	54.04	22.83	L1	OFF	20.0
0.190000	43.64	---	64.04	20.40	L1	OFF	20.0
0.242000	---	30.84	52.03	21.19	L1	OFF	20.0
0.242000	42.31	---	62.03	19.72	L1	OFF	20.0
0.262000	---	28.57	51.37	22.80	L1	OFF	20.0
0.262000	41.93	---	61.37	19.44	L1	OFF	20.0
0.302000	---	26.36	50.19	23.83	L1	OFF	20.0
0.302000	37.94	---	60.19	22.25	L1	OFF	20.0
0.426000	---	21.99	47.33	25.34	L1	OFF	20.0
0.426000	36.57	---	57.33	20.76	L1	OFF	20.0
3.394000	---	21.89	46.00	24.11	L1	OFF	20.0
3.394000	29.88	---	56.00	26.12	L1	OFF	20.0
19.890000	---	23.36	50.00	26.64	L1	OFF	20.2
19.890000	28.88	---	60.00	31.12	L1	OFF	20.2

Appendix B. Radiated Spurious Emission

Test Engineer :	Andy Yan, Karl Hou and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

<CDD Mode>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5147.16	61.93	-12.07	74	46.44	32.92	12.03	29.46	100	122	P	H
		5149.76	52.96	-1.04	54	37.49	32.9	12.03	29.46	100	122	A	H
	*	5180	112.22	-	-	96.65	32.96	12.08	29.47	100	122	P	H
	*	5180	104.65	-	-	89.08	32.96	12.08	29.47	100	122	A	H
													H
													H
		5150	60.62	-13.38	74	45.15	32.9	12.03	29.46	100	307	P	V
		5149.76	50.02	-3.98	54	34.55	32.9	12.03	29.46	100	307	A	V
	*	5180	111.03	-	-	95.46	32.96	12.08	29.47	100	307	P	V
	*	5180	103.08	-	-	87.51	32.96	12.08	29.47	100	307	A	V
													V
													V
802.11a CH 44 5220MHz		5147.16	56.86	-17.14	74	41.37	32.92	12.03	29.46	100	26	P	H
		5150	46.92	-7.08	54	31.45	32.9	12.03	29.46	100	26	A	H
	*	5220	112.86	-	-	97.2	32.96	12.18	29.48	100	26	P	H
	*	5220	105.62	-	-	89.96	32.96	12.18	29.48	100	26	A	H
		5420.24	54.47	-19.53	74	38.31	32.9	12.8	29.54	100	26	P	H
		5436.2	44.66	-9.34	54	28.5	32.9	12.81	29.55	100	26	A	H
		5144.82	55.73	-18.27	74	40.24	32.93	12.02	29.46	100	104	P	V
		5149.5	45.95	-8.05	54	30.48	32.9	12.03	29.46	100	104	A	V
	*	5220	113.78	-	-	98.12	32.96	12.18	29.48	100	104	P	V
	*	5220	105.11	-	-	89.45	32.96	12.18	29.48	100	104	A	V
		5359.76	55.56	-18.44	74	39.62	32.82	12.65	29.53	100	104	P	V
		5356.4	44.96	-9.04	54	29.03	32.81	12.64	29.52	100	104	A	V

802.11a CH 48 5240MHz		5118.3	55.54	-18.46	74	39.92	33.09	11.98	29.45	100	25	P	H
		5148.98	45.46	-8.54	54	29.98	32.91	12.03	29.46	100	25	A	H
	*	5240	111.68	-	-	96	32.92	12.25	29.49	100	25	P	H
	*	5240	104.68	-	-	89	32.92	12.25	29.49	100	25	A	H
		5379.64	55.45	-18.55	74	39.4	32.86	12.72	29.53	100	25	P	H
		5351.36	45.5	-8.5	54	29.6	32.8	12.62	29.52	100	25	A	H
		5090.74	55.52	-18.48	74	39.89	33.13	11.94	29.44	100	116	P	V
		5150	45.24	-8.76	54	29.77	32.9	12.03	29.46	100	116	A	V
	*	5240	112.9	-	-	97.22	32.92	12.25	29.49	100	116	P	V
	*	5240	105.11	-	-	89.43	32.92	12.25	29.49	100	116	A	V
		5362	55.83	-18.17	74	39.88	32.82	12.66	29.53	100	116	P	V
		5352.76	45.35	-8.65	54	29.43	32.81	12.63	29.52	100	116	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.32	-20.88	68.2	45.36	38.66	18.9	55.6	-	-	P	H
		15540	46.79	-27.21	74	40.54	38.28	22.65	54.68	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	47.38	-20.82	68.2	45.42	38.66	18.9	55.6	-	-	P	V
		15540	46.95	-27.05	74	40.7	38.28	22.65	54.68	-	-	P	V
													V
													V
													V
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													V
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													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.62	-20.58	68.2	45.59	38.66	18.91	55.54	-	-	P	H
		15660	45.91	-28.09	74	40.17	37.86	22.74	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 44 5220MHz													H
		10440	47.4	-20.8	68.2	45.37	38.66	18.91	55.54	-	-	P	V
		15660	45.95	-28.05	74	40.21	37.86	22.74	54.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.94	-20.26	68.2	45.91	38.62	18.92	55.51	-	-	P	H
		15720	46.27	-27.73	74	40.74	37.7	22.78	54.95	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
		10480	48.67	-19.53	68.2	46.64	38.62	18.92	55.51	-	-	P	V
		15720	47.01	-26.99	74	41.48	37.7	22.78	54.95	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 36 5180MHz		5148.98	62.47	-11.53	74	46.99	32.91	12.03	29.46	100	122	P	H
		5149.76	51.03	-2.97	54	35.56	32.9	12.03	29.46	100	122	A	H
	*	5180	113.49	-	-	97.92	32.96	12.08	29.47	100	122	P	H
	*	5180	102.91	-	-	87.34	32.96	12.08	29.47	100	122	A	H
													H
													H
		5147.68	58.97	-15.03	74	43.49	32.91	12.03	29.46	100	307	P	V
		5149.5	48.79	-5.21	54	33.32	32.9	12.03	29.46	100	307	A	V
	*	5180	110.24	-	-	94.67	32.96	12.08	29.47	100	307	P	V
	*	5180	101.44	-	-	85.87	32.96	12.08	29.47	100	307	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5128.96	56.09	-17.91	74	40.51	33.03	12	29.45	100	26	P	H
		5148.98	46.17	-7.83	54	30.69	32.91	12.03	29.46	100	26	A	H
	*	5220	113.95	-	-	98.29	32.96	12.18	29.48	100	26	P	H
	*	5220	104.09	-	-	88.43	32.96	12.18	29.48	100	26	A	H
		5372.64	55.37	-18.63	74	39.35	32.85	12.7	29.53	100	26	P	H
		5367.88	44.67	-9.33	54	28.68	32.84	12.68	29.53	100	26	A	H
		5115.7	55.98	-18.02	74	40.34	33.11	11.98	29.45	100	103	P	V
		5140.66	45.07	-8.93	54	29.55	32.96	12.02	29.46	100	103	A	V
	*	5220	114.22	-	-	98.56	32.96	12.18	29.48	100	103	P	V
	*	5220	104.58	-	-	88.92	32.96	12.18	29.48	100	103	A	V
		5394.48	56.51	-17.49	74	40.39	32.89	12.77	29.54	100	103	P	V
		5352.2	44.91	-9.09	54	29	32.8	12.63	29.52	100	103	A	V

802.11ax HE20 Full CH 48 5240MHz		5141.18	55.69	-18.31	74	40.18	32.95	12.02	29.46	102	26	P	H
		5149.24	45.53	-8.47	54	30.06	32.9	12.03	29.46	102	26	A	H
	*	5240	113.31	-	-	97.63	32.92	12.25	29.49	102	26	P	H
	*	5240	103.5	-	-	87.82	32.92	12.25	29.49	102	26	A	H
		5412.12	56.57	-17.43	74	40.41	32.9	12.8	29.54	102	26	P	H
		5350.52	45.55	-8.45	54	29.65	32.8	12.62	29.52	102	26	A	H
		5146.12	55.67	-18.33	74	40.18	32.92	12.03	29.46	100	117	P	V
		5148.46	45.22	-8.78	54	29.74	32.91	12.03	29.46	100	117	A	V
	*	5240	113.48	-	-	97.8	32.92	12.25	29.49	100	117	P	V
	*	5240	104.53	-	-	88.85	32.92	12.25	29.49	100	117	A	V
		5369.84	57.21	-16.79	74	41.21	32.84	12.69	29.53	100	117	P	V
		5353.6	45.56	-8.44	54	29.64	32.81	12.63	29.52	100	117	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.36	-20.84	68.2	45.4	38.66	18.9	55.6	-	-	P	H
		15540	47.4	-26.6	74	41.15	38.28	22.65	54.68	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	47.52	-20.68	68.2	45.56	38.66	18.9	55.6	-	-	P	V
5180MHz		15540	47.69	-26.31	74	41.44	38.28	22.65	54.68	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	47.38	-20.82	68.2	45.35	38.66	18.91	55.54	-	-	P	H
		15660	46.21	-27.79	74	40.47	37.86	22.74	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	48.14	-20.06	68.2	46.11	38.66	18.91	55.54	-	-	P	V
5220MHz		15660	46.6	-27.4	74	40.86	37.86	22.74	54.86	-	-	P	V
													V
													V
													V
													V
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													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.29	-19.91	68.2	46.26	38.62	18.92	55.51	-	-	P	H
		15720	46.79	-27.21	74	41.26	37.7	22.78	54.95	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	47.92	-20.28	68.2	45.89	38.62	18.92	55.51	-	-	P	V
5240MHz		15720	46.34	-27.66	74	40.81	37.7	22.78	54.95	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Partial 106/53 CH 36 5180MHz		5148.72	60.45	-13.55	74	44.97	32.91	12.03	29.46	100	28	P	H
		5150	50.11	-3.89	54	34.64	32.9	12.03	29.46	100	28	A	H
	*	5180	114.97	-	-	99.4	32.96	12.08	29.47	100	28	P	H
	*	5180	105.19	-	-	89.62	32.96	12.08	29.47	100	28	A	H
													H
													H
		5150	62.34	-11.66	74	46.87	32.9	12.03	29.46	100	124	P	V
		5150	48.18	-5.82	54	32.71	32.9	12.03	29.46	100	124	A	V
	*	5180	113.66	-	-	98.09	32.96	12.08	29.47	100	124	P	V
	*	5180	104.28	-	-	88.71	32.96	12.08	29.47	100	124	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 38 5190MHz		5149.5	62.73	-11.27	74	47.26	32.9	12.03	29.46	100	303	P	H
		5150	52.4	-1.6	54	36.93	32.9	12.03	29.46	100	303	A	H
	*	5190	105.01	-	-	89.41	32.98	12.09	29.47	100	303	P	H
	*	5190	95.14	-	-	79.54	32.98	12.09	29.47	100	303	A	H
		5397.84	54.71	-19.29	74	38.57	32.9	12.78	29.54	100	303	P	H
		5387.48	44.34	-9.66	54	28.25	32.87	12.75	29.53	100	303	A	H
		5148.2	62.83	-11.17	74	47.35	32.91	12.03	29.46	100	121	P	V
		5149.24	50.31	-3.69	54	34.84	32.9	12.03	29.46	100	121	A	V
	*	5190	104.84	-	-	89.24	32.98	12.09	29.47	100	121	P	V
	*	5190	94.45	-	-	78.85	32.98	12.09	29.47	100	121	A	V
		5355.56	55.25	-18.75	74	39.32	32.81	12.64	29.52	100	121	P	V
		5357.52	45.13	-8.87	54	29.18	32.82	12.65	29.52	100	121	A	V
802.11ax HE40 Full CH 46 5230MHz		5150	59.79	-14.21	74	44.32	32.9	12.03	29.46	100	302	P	H
		5149.76	49.95	-4.05	54	34.48	32.9	12.03	29.46	100	302	A	H
	*	5230	108.97	-	-	93.3	32.94	12.21	29.48	100	302	P	H
	*	5230	98.75	-	-	83.08	32.94	12.21	29.48	100	302	A	H
		5428.92	55.55	-18.45	74	39.4	32.9	12.8	29.55	100	302	P	H
		5407.64	46.05	-7.95	54	29.9	32.9	12.79	29.54	100	302	A	H
		5147.94	59.5	-14.5	74	44.02	32.91	12.03	29.46	100	121	P	V
		5148.72	48.9	-5.1	54	33.42	32.91	12.03	29.46	100	121	A	V
	*	5230	109.38	-	-	93.71	32.94	12.21	29.48	100	121	P	V
	*	5230	99.19	-	-	83.52	32.94	12.21	29.48	100	121	A	V
		5362	57.76	-16.24	74	41.81	32.82	12.66	29.53	100	121	P	V
		5395.32	48.18	-5.82	54	32.06	32.89	12.77	29.54	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.08	-20.12	68.2	46.09	38.68	18.9	55.59	-	-	P	H
		15570	47.8	-26.2	74	41.66	38.19	22.68	54.73	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	47.39	-20.81	68.2	45.4	38.68	18.9	55.59	-	-	P	V
5190MHz		15570	47.35	-26.65	74	41.21	38.19	22.68	54.73	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.2	-20	68.2	46.17	38.64	18.91	55.52	-	-	P	H
		15690	47.5	-26.5	74	41.91	37.74	22.76	54.91	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	47.21	-20.99	68.2	45.18	38.64	18.91	55.52	-	-	P	V
5230MHz		15690	47.05	-26.95	74	41.46	37.74	22.76	54.91	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	61.11	-12.89	74	45.61	32.93	12.03	29.46	100	303	P	H
		5148.2	51.64	-2.36	54	36.16	32.91	12.03	29.46	100	303	A	H
	*	5210	101.92	-	-	86.28	32.98	12.14	29.48	100	303	P	H
	*	5210	91.81	-	-	76.17	32.98	12.14	29.48	100	303	A	H
		5393.64	54.1	-19.9	74	37.98	32.89	12.77	29.54	100	303	P	H
		5400.08	45.44	-8.56	54	29.29	32.9	12.79	29.54	100	303	A	H
		5147.94	58.97	-15.03	74	43.49	32.91	12.03	29.46	100	125	P	V
		5149.5	49.6	-4.4	54	34.13	32.9	12.03	29.46	100	125	A	V
	*	5210	101.14	-	-	85.5	32.98	12.14	29.48	100	125	P	V
	*	5210	91.45	-	-	75.81	32.98	12.14	29.48	100	125	A	V
		5378.24	55.6	-18.4	74	39.55	32.86	12.72	29.53	100	125	P	V
		5403.16	46.75	-7.25	54	30.6	32.9	12.79	29.54	100	125	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.93	-20.27	68.2	45.89	38.68	18.91	55.55	-	-	P	H
		15630	46.74	-27.26	74	40.86	37.98	22.72	54.82	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	47.34	-20.86	68.2	45.3	38.68	18.91	55.55	-	-	P	V
5210MHz		15630	46.01	-27.99	74	40.13	37.98	22.72	54.82	-	-	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 802.11a (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5101.32	54.79	-19.21	74	39.08	33.19	11.96	29.44	100	25	P	H
		5149.6	44.77	-9.23	54	29.3	32.9	12.03	29.46	100	25	A	H
	*	5260	112.64	-	-	96.9	32.92	12.31	29.49	100	25	P	H
	*	5260	104.72	-	-	88.98	32.92	12.31	29.49	100	25	A	H
		5383.92	56.69	-17.31	74	40.61	32.87	12.74	29.53	100	25	P	H
		5350.8	46.04	-7.96	54	30.14	32.8	12.62	29.52	100	25	A	H
		5067.32	54.42	-19.58	74	39.01	32.94	11.9	29.43	100	116	P	V
		5126.82	44.53	-9.47	54	28.94	33.04	12	29.45	100	116	A	V
	*	5260	113.61	-	-	97.87	32.92	12.31	29.49	100	116	P	V
	*	5260	105.43	-	-	89.69	32.92	12.31	29.49	100	116	A	V
		5350.08	55.54	-18.46	74	39.64	32.8	12.62	29.52	100	116	P	V
		5350.32	46.03	-7.97	54	30.13	32.8	12.62	29.52	100	116	A	V
802.11a CH 60 5300MHz		5085	54.25	-19.75	74	38.68	33.08	11.93	29.44	100	25	P	H
		5120.7	44.29	-9.71	54	28.67	33.08	11.99	29.45	100	25	A	H
	*	5300	111.98	-	-	96.04	33	12.45	29.51	100	25	P	H
	*	5300	104.4	-	-	88.46	33	12.45	29.51	100	25	A	H
		5357.28	56.59	-17.41	74	40.66	32.81	12.64	29.52	100	25	P	H
		5350.8	47.94	-6.06	54	32.04	32.8	12.62	29.52	100	25	A	H
		5094.52	54.64	-19.36	74	38.97	33.16	11.95	29.44	100	87	P	V
		5117.3	44.42	-9.58	54	28.79	33.1	11.98	29.45	100	87	A	V
	*	5300	113.8	-	-	97.86	33	12.45	29.51	100	87	P	V
	*	5300	105.56	-	-	89.62	33	12.45	29.51	100	87	A	V
		5372.4	58.17	-15.83	74	42.16	32.84	12.7	29.53	100	87	P	V
		5352.48	48.88	-5.12	54	32.97	32.8	12.63	29.52	100	87	A	V

802.11a CH 64 5320MHz	*	5320	109.56	-	-	93.63	32.92	12.52	29.51	100	16	P	H
	*	5320	102.35	-	-	86.42	32.92	12.52	29.51	100	16	A	H
		5350.88	63.64	-10.36	74	47.74	32.8	12.62	29.52	100	16	P	H
		5350.08	51.4	-2.6	54	35.5	32.8	12.62	29.52	100	16	A	H
													H
													H
	*	5320	112.42	-	-	96.49	32.92	12.52	29.51	100	86	P	V
	*	5320	104.51	-	-	88.58	32.92	12.52	29.51	100	86	A	V
		5351.36	62.59	-11.41	74	46.69	32.8	12.62	29.52	100	86	P	V
		5350.08	52.26	-1.74	54	36.36	32.8	12.62	29.52	100	86	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.01	-21.19	68.2	44.89	38.68	18.93	55.49	-	-	P	H
		15780	47.17	-26.83	74	41.69	37.7	22.83	55.05	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	47.05	-21.15	68.2	44.93	38.68	18.93	55.49	-	-	P	V
		15780	46.4	-27.6	74	40.92	37.7	22.83	55.05	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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)
i802.11a CH 60 5300MHz		10600	47.28	-26.72	74	44.8	39	18.95	55.47	-	-	P	H
		15900	46.41	-27.59	74	40.84	37.9	22.9	55.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10600	47.21	-26.79	74	44.73	39	18.95	55.47	-	-	P	V
		15900	46.87	-27.13	74	41.3	37.9	22.9	55.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 64 5320MHz		10640	47.51	-26.49	74	45.02	39	18.95	55.46	-	-	P	H
		15960	45.8	-28.2	74	40.45	37.72	22.95	55.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10640	47.7	-26.3	74	45.21	39	18.95	55.46	-	-	P	V
		15960	45.98	-28.02	74	40.63	37.72	22.95	55.32	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 52 5260MHz		5133.62	54.71	-19.29	74	39.15	33	12.01	29.45	100	26	P	H
		5147.56	45.04	-8.96	54	29.56	32.91	12.03	29.46	100	26	A	H
	*	5260	113.51	-	-	97.77	32.92	12.31	29.49	100	26	P	H
	*	5260	103.85	-	-	88.11	32.92	12.31	29.49	100	26	A	H
		5388.96	56.71	-17.29	74	40.61	32.88	12.75	29.53	100	26	P	H
		5350.8	45.94	-8.06	54	30.04	32.8	12.62	29.52	100	26	A	H
		5139.06	54.76	-19.24	74	39.22	32.97	12.02	29.45	100	115	P	V
		5146.54	44.53	-9.47	54	29.04	32.92	12.03	29.46	100	115	A	V
	*	5260	115.55	-	-	99.81	32.92	12.31	29.49	100	115	P	V
	*	5260	105.28	-	-	89.54	32.92	12.31	29.49	100	115	A	V
		5352.72	56.42	-17.58	74	40.5	32.81	12.63	29.52	100	115	P	V
		5351.52	45.86	-8.14	54	29.95	32.8	12.63	29.52	100	115	A	V
802.11ax HE20 Full CH 60 5300MHz		5081.26	54.7	-19.3	74	39.16	33.05	11.93	29.44	100	26	P	H
		5145.86	44.28	-9.72	54	28.79	32.92	12.03	29.46	100	26	A	H
	*	5300	115.64	-	-	99.7	33	12.45	29.51	100	26	P	H
	*	5300	103.98	-	-	88.04	33	12.45	29.51	100	26	A	H
		5382.48	57.4	-16.6	74	41.34	32.86	12.73	29.53	100	26	P	H
		5350.08	47.23	-6.77	54	31.33	32.8	12.62	29.52	100	26	A	H
		5075.82	54.6	-19.4	74	39.1	33.01	11.92	29.43	100	116	P	V
		5140.76	44.16	-9.84	54	28.64	32.96	12.02	29.46	100	116	A	V
	*	5300	115.93	-	-	99.99	33	12.45	29.51	100	116	P	V
	*	5300	104.86	-	-	88.92	33	12.45	29.51	100	116	A	V
		5356.08	56.81	-17.19	74	40.88	32.81	12.64	29.52	100	116	P	V
		5350.8	47.24	-6.76	54	31.34	32.8	12.62	29.52	100	116	A	V

	*	5320	111.38	-	-	95.45	32.92	12.52	29.51	100	18	P	H
	*	5320	101.12	-	-	85.19	32.92	12.52	29.51	100	18	A	H
		5350.56	60.03	-13.97	74	44.13	32.8	12.62	29.52	100	18	P	H
		5350.56	50.9	-3.1	54	35	32.8	12.62	29.52	100	18	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	113.08	-	-	97.15	32.92	12.52	29.51	100	121	P	V
5320MHz	*	5320	103.48	-	-	87.55	32.92	12.52	29.51	100	121	A	V
		5351.52	62.07	-11.93	74	46.16	32.8	12.63	29.52	100	121	P	V
		5350.08	51.67	-2.33	54	35.77	32.8	12.62	29.52	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47	-21.2	68.2	44.88	38.68	18.93	55.49	-	-	P	H
		15780	45.37	-28.63	74	39.89	37.7	22.83	55.05	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	47.15	-21.05	68.2	45.03	38.68	18.93	55.49	-	-	P	V
5260MHz		15780	46.61	-27.39	74	41.13	37.7	22.83	55.05	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.9	-26.1	74	45.42	39	18.95	55.47	-	-	P	H
		15900	46.64	-27.36	74	41.07	37.9	22.9	55.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	47.12	-26.88	74	44.64	39	18.95	55.47	-	-	P	V
5300MHz		15900	45.72	-28.28	74	40.15	37.9	22.9	55.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.24	-26.76	74	44.75	39	18.95	55.46	-	-	P	H
		15960	45.39	-28.61	74	40.04	37.72	22.95	55.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		10640	46.59	-27.41	74	44.1	39	18.95	55.46	-	-	P	V
5320MHz		15960	45.21	-28.79	74	39.86	37.72	22.95	55.32	-	-	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 Partial 106 (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Partial 106/54 CH 64 5320MHz	*	5320	114.85	-	-	98.92	32.92	12.52	29.51	100	18	P	H
	*	5320	103.95	-	-	88.02	32.92	12.52	29.51	100	18	A	H
		5358.72	61.28	-12.72	74	45.33	32.82	12.65	29.52	100	18	P	H
		5350.08	49.43	-4.57	54	33.53	32.8	12.62	29.52	100	18	A	H
													H
													H
	*	5320	115.92	-	-	99.99	32.92	12.52	29.51	100	86	P	V
	*	5320	105.84	-	-	89.91	32.92	12.52	29.51	100	86	A	V
		5350.88	66.72	-7.28	74	50.82	32.8	12.62	29.52	100	86	P	V
		5350.08	50.22	-3.78	54	34.32	32.8	12.62	29.52	100	86	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 54 5270MHz		5141.1	56.84	-17.16	74	41.33	32.95	12.02	29.46	100	354	P	H
		5147.22	46.7	-7.3	54	31.21	32.92	12.03	29.46	100	354	A	H
	*	5270	108.52	-	-	92.73	32.94	12.35	29.5	100	354	P	H
	*	5270	99.01	-	-	83.22	32.94	12.35	29.5	100	354	A	H
		5416.56	57.6	-16.4	74	41.44	32.9	12.8	29.54	100	354	P	H
		5417.52	47.93	-6.07	54	31.77	32.9	12.8	29.54	100	354	A	H
		5146.2	56.74	-17.26	74	41.25	32.92	12.03	29.46	100	120	P	V
		5140.42	47.25	-6.75	54	31.72	32.96	12.02	29.45	100	120	A	V
	*	5270	109.61	-	-	93.82	32.94	12.35	29.5	100	120	P	V
	*	5270	99.22	-	-	83.43	32.94	12.35	29.5	100	120	A	V
		5350.8	59.25	-14.75	74	43.35	32.8	12.62	29.52	100	120	P	V
		5350.32	48.92	-5.08	54	33.02	32.8	12.62	29.52	100	120	A	V
802.11ax HE40 Full CH 62 5310MHz		5143.14	55.66	-18.34	74	40.16	32.94	12.02	29.46	100	351	P	H
		5133.28	45.47	-8.53	54	29.91	33	12.01	29.45	100	351	A	H
	*	5310	105.24	-	-	89.31	32.96	12.48	29.51	100	351	P	H
	*	5310	95.44	-	-	79.51	32.96	12.48	29.51	100	351	A	H
		5355.6	59.77	-14.23	74	43.84	32.81	12.64	29.52	100	351	P	H
		5350.08	50.02	-3.98	54	34.12	32.8	12.62	29.52	100	351	A	H
		5108.46	56.15	-17.85	74	40.47	33.15	11.97	29.44	100	121	P	V
		5126.82	46.02	-7.98	54	30.43	33.04	12	29.45	100	121	A	V
	*	5310	106.75	-	-	90.82	32.96	12.48	29.51	100	121	P	V
	*	5310	96.66	-	-	80.73	32.96	12.48	29.51	100	121	A	V
		5355.36	64.49	-9.51	74	48.56	32.81	12.64	29.52	100	121	P	V
		5350.08	52.19	-1.81	54	36.29	32.8	12.62	29.52	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.21	-20.99	68.2	44.99	38.76	18.94	55.48	-	-	P	H
		15810	44.78	-29.22	74	39.3	37.72	22.85	55.09	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	46.34	-21.86	68.2	44.12	38.76	18.94	55.48	-	-	P	V
5270MHz		15810	45.63	-28.37	74	40.15	37.72	22.85	55.09	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	47.92	-26.08	74	45.43	39	18.95	55.46	-	-	P	H
		15930	46.42	-27.58	74	40.95	37.81	22.93	55.27	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		10620	47.36	-26.64	74	44.87	39	18.95	55.46	-	-	P	V
5310MHz		15930	45.87	-28.13	74	40.4	37.81	22.93	55.27	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5077.18	56.92	-17.08	74	41.41	33.02	11.92	29.43	100	340	P	H
		5089.08	47.32	-6.68	54	31.71	33.11	11.94	29.44	100	340	A	H
	*	5290	101.89	-	-	85.99	32.98	12.42	29.5	100	340	P	H
	*	5290	92.68	-	-	76.78	32.98	12.42	29.5	100	340	A	H
		5350.8	59.38	-14.62	74	43.48	32.8	12.62	29.52	100	340	P	H
		5353.2	50.21	-3.79	54	34.29	32.81	12.63	29.52	100	340	A	H
		5144.5	56.61	-17.39	74	41.12	32.93	12.02	29.46	100	121	P	V
		5131.24	47.93	-6.07	54	32.37	33.01	12	29.45	100	121	A	V
	*	5290	103.38	-	-	87.48	32.98	12.42	29.5	100	121	P	V
	*	5290	93.76	-	-	77.86	32.98	12.42	29.5	100	121	A	V
		5352.48	63.92	-10.08	74	48.01	32.8	12.63	29.52	100	121	P	V
		5350.08	51.65	-2.35	54	35.75	32.8	12.62	29.52	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.66	-21.54	68.2	44.27	38.92	18.94	55.47	-	-	P	H
		15870	46.58	-27.42	74	41.03	37.84	22.89	55.18	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	47.3	-20.9	68.2	44.91	38.92	18.94	55.47	-	-	P	V
5290MHz		15870	46.37	-27.63	74	40.82	37.84	22.89	55.18	-	-	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 802.11a (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5455.76	62.79	-11.21	74	46.64	32.89	12.82	29.56	100	29	P	H
		5469.2	65.38	-2.82	68.2	49.26	32.86	12.82	29.56	100	29	P	H
		5459.44	49.68	-4.32	54	33.54	32.88	12.82	29.56	100	29	A	H
	*	5500	113.49	-	-	97.42	32.8	12.84	29.57	100	29	P	H
	*	5500	105.64	-	-	89.57	32.8	12.84	29.57	100	29	A	H
													H
		5457.52	58.47	-15.53	74	42.33	32.88	12.82	29.56	100	88	P	V
		5465.68	63.63	-4.57	68.2	47.5	32.87	12.82	29.56	100	88	P	V
		5460	48.53	-5.47	54	32.39	32.88	12.82	29.56	100	88	A	V
	*	5500	111.42	-	-	95.35	32.8	12.84	29.57	100	88	P	V
	*	5500	103.19	-	-	87.12	32.8	12.84	29.57	100	88	A	V
													V
802.11a CH 116 5580MHz		5438.8	54.86	-19.14	74	38.7	32.9	12.81	29.55	100	62	P	H
		5469.76	54.83	-13.37	68.2	38.71	32.86	12.82	29.56	100	62	P	H
		5459.92	45.65	-8.35	54	29.51	32.88	12.82	29.56	100	62	A	H
	*	5580	114.84	-	-	98.51	33.04	12.87	29.58	100	62	P	H
	*	5580	107.69	-	-	91.36	33.04	12.87	29.58	100	62	A	H
		5732.24	55.19	-13.01	68.2	38.36	33.49	12.95	29.61	100	62	P	H
		5457.04	55.06	-18.94	74	38.91	32.89	12.82	29.56	100	119	P	V
		5469.52	54.84	-13.36	68.2	38.72	32.86	12.82	29.56	100	119	P	V
		5457.28	45.05	-8.95	54	28.9	32.89	12.82	29.56	100	119	A	V
	*	5580	112.55	-	-	96.22	33.04	12.87	29.58	100	119	P	V
	*	5580	104.49	-	-	88.16	33.04	12.87	29.58	100	119	A	V
		5746.1	54.83	-13.37	68.2	37.9	33.58	12.96	29.61	100	119	P	V

802.11a CH 140 5700MHz	*	5700	112.68	-	-	96.06	33.3	12.93	29.61	100	303	P	H
	*	5700	104.17	-	-	87.55	33.3	12.93	29.61	100	303	A	H
		5726.44	65.93	-2.27	68.2	49.13	33.46	12.95	29.61	100	303	P	H
													H
													H
													H
	*	5700	110.77	-	-	94.15	33.3	12.93	29.61	100	120	P	V
	*	5700	103.21	-	-	86.59	33.3	12.93	29.61	100	120	A	V
		5726.12	64.87	-3.33	68.2	48.07	33.46	12.95	29.61	100	120	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		11000	47.34	-26.66	74	44.8	38.9	19.01	55.37	-	-	P	H
		16500	47.56	-20.64	68.2	39.94	38.5	23.98	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11000	47.66	-26.34	74	45.12	38.9	19.01	55.37	-	-	P	V
		16500	48.41	-19.79	68.2	40.79	38.5	23.98	54.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.85	-26.15	74	45.05	38.96	19.09	55.25	-	-	P	H
		16740	48.16	-20.04	68.2	40.83	37.88	24.46	55.01	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 116 5580MHz		11160	47.51	-26.49	74	44.71	38.96	19.09	55.25	-	-	P	V
		16740	48.04	-20.16	68.2	40.71	37.88	24.46	55.01	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 140 5700MHz		11400	47.99	-26.01	74	44.67	39.2	19.19	55.07	-	-	P	H
		17100	47.91	-20.29	68.2	40.58	37.7	25.03	55.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11400	46.78	-27.22	74	43.46	39.2	19.19	55.07	-	-	P	V
		17100	49.19	-19.01	68.2	41.86	37.7	25.03	55.4	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 100 5500MHz		5458.32	61.3	-12.7	74	45.16	32.88	12.82	29.56	100	48	P	H
		5468.56	65.84	-2.36	68.2	49.72	32.86	12.82	29.56	100	48	P	H
		5458.96	49.72	-4.28	54	33.58	32.88	12.82	29.56	100	48	A	H
	*	5500	115.36	-	-	99.29	32.8	12.84	29.57	100	48	P	H
	*	5500	106.01	-	-	89.94	32.8	12.84	29.57	100	48	A	H
		5459.76	59.54	-14.46	74	43.4	32.88	12.82	29.56	100	91	P	V
		5470	63.89	-4.31	68.2	47.77	32.86	12.82	29.56	100	91	P	V
		5459.76	48.58	-5.42	54	32.44	32.88	12.82	29.56	100	91	A	V
	*	5500	111.44	-	-	95.37	32.8	12.84	29.57	100	91	P	V
	*	5500	102.08	-	-	86.01	32.8	12.84	29.57	100	91	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5450.56	55.91	-18.09	74	39.75	32.9	12.81	29.55	100	61	P	H
		5469.28	55.99	-12.21	68.2	39.87	32.86	12.82	29.56	100	61	P	H
		5459.2	46.05	-7.95	54	29.91	32.88	12.82	29.56	100	61	A	H
	*	5580	117.17	-	-	100.84	33.04	12.87	29.58	100	61	P	H
	*	5580	106.82	-	-	90.49	33.04	12.87	29.58	100	61	A	H
		5730.035	56.02	-12.18	68.2	39.2	33.48	12.95	29.61	100	61	P	H
		5436.88	55.5	-18.5	74	39.34	32.9	12.81	29.55	100	118	P	V
		5469.52	54.3	-13.9	68.2	38.18	32.86	12.82	29.56	100	118	P	V
		5446.24	45.23	-8.77	54	29.07	32.9	12.81	29.55	100	118	A	V
	*	5580	113.17	-	-	96.84	33.04	12.87	29.58	100	118	P	V
	*	5580	103.65	-	-	87.32	33.04	12.87	29.58	100	118	A	V
		5725.94	56.95	-11.25	68.2	40.15	33.46	12.95	29.61	100	118	P	V

802.11ax HE20 Full CH 140 5700MHz	*	5700	111.18	-	-	94.56	33.3	12.93	29.61	100	335	P	H
	*	5700	101.23	-	-	84.61	33.3	12.93	29.61	100	335	A	H
		5725.8	66.29	-1.91	68.2	49.5	33.45	12.95	29.61	100	335	P	H
													H
													H
													H
	*	5700	109.82	-	-	93.2	33.3	12.93	29.61	100	121	P	V
	*	5700	100.68	-	-	84.06	33.3	12.93	29.61	100	121	A	V
		5725.16	63.36	-4.84	68.2	46.57	33.45	12.95	29.61	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.42	-26.58	74	44.88	38.9	19.01	55.37	-	-	P	H
		16500	47.88	-20.32	68.2	40.26	38.5	23.98	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	47.15	-26.85	74	44.61	38.9	19.01	55.37	-	-	P	V
5500MHz		16500	47.99	-20.21	68.2	40.37	38.5	23.98	54.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	47.89	-26.11	74	45.09	38.96	19.09	55.25	-	-	P	H
		16740	48.56	-19.64	68.2	41.23	37.88	24.46	55.01	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	46.83	-27.17	74	44.03	38.96	19.09	55.25	-	-	P	V
5580MHz		16740	48.66	-19.54	68.2	41.33	37.88	24.46	55.01	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.48	-27.52	74	43.16	39.2	19.19	55.07	-	-	P	H
		17100	48.19	-20.01	68.2	40.86	37.7	25.03	55.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	46.41	-27.59	74	43.09	39.2	19.19	55.07	-	-	P	V
5700MHz		17100	47.67	-20.53	68.2	40.34	37.7	25.03	55.4	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Partial 106/53 CH 100 5500MHz		5458.16	60.86	-13.14	74	44.72	32.88	12.82	29.56	100	49	P	H
		5466	63.4	-4.8	68.2	47.27	32.87	12.82	29.56	100	49	P	H
		5460	49.45	-4.55	54	33.31	32.88	12.82	29.56	100	49	A	H
	*	5500	118.06	-	-	101.99	32.8	12.84	29.57	100	49	P	H
	*	5500	108.1	-	-	92.03	32.8	12.84	29.57	100	49	A	H
													H
		5432.88	58.18	-15.82	74	42.03	32.9	12.8	29.55	100	86	P	V
		5470	62.66	-5.54	68.2	46.54	32.86	12.82	29.56	100	86	P	V
		5459.92	48.1	-5.9	54	31.96	32.88	12.82	29.56	100	86	A	V
	*	5500	113.28	-	-	97.21	32.8	12.84	29.57	100	86	P	V
	*	5500	104.68	-	-	88.61	32.8	12.84	29.57	100	86	A	V
													V
802.11ax HE20 Partial 106/54 CH 140 5700MHz	*	5700	116.84	-	-	100.22	33.3	12.93	29.61	100	294	P	H
	*	5700	107.01	-	-	90.39	33.3	12.93	29.61	100	294	A	H
		5725.32	66.82	-1.38	68.2	50.03	33.45	12.95	29.61	100	294	P	H
													H
													H
													H
	*	5700	115.05	-	-	98.43	33.3	12.93	29.61	100	118	P	V
	*	5700	105.62	-	-	89	33.3	12.93	29.61	100	118	A	V
		5726.44	66.7	-1.5	68.2	49.9	33.46	12.95	29.61	100	118	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 102 5510MHz		5459.92	61.76	-12.24	74	45.62	32.88	12.82	29.56	100	50	P	H
		5469.28	66.51	-1.69	68.2	50.39	32.86	12.82	29.56	100	50	P	H
		5459.2	49.94	-4.06	54	33.8	32.88	12.82	29.56	100	50	A	H
	*	5510	109.68	-	-	93.61	32.8	12.84	29.57	100	50	P	H
	*	5510	98.72	-	-	82.65	32.8	12.84	29.57	100	50	A	H
		5730.035	56.14	-12.06	68.2	39.32	33.48	12.95	29.61	100	50	P	H
		5459.68	61.16	-12.84	74	45.02	32.88	12.82	29.56	100	90	P	V
		5469.04	65.06	-3.14	68.2	48.94	32.86	12.82	29.56	100	90	P	V
		5459.92	49.17	-4.83	54	33.03	32.88	12.82	29.56	100	90	A	V
	*	5510	105.77	-	-	89.7	32.8	12.84	29.57	100	90	P	V
	*	5510	95.7	-	-	79.63	32.8	12.84	29.57	100	90	A	V
		5740.43	55.27	-12.93	68.2	38.38	33.54	12.96	29.61	100	90	P	V
802.11ax HE40 Full CH 110 5550MHz		5445.52	58.21	-15.79	74	42.05	32.9	12.81	29.55	100	55	P	H
		5466.88	57.85	-10.35	68.2	41.72	32.87	12.82	29.56	100	55	P	H
		5458.48	48.93	-5.07	54	32.79	32.88	12.82	29.56	100	55	A	H
	*	5550	110.37	-	-	94.29	32.8	12.86	29.58	100	55	P	H
	*	5550	101.27	-	-	85.19	32.8	12.86	29.58	100	55	A	H
		5736.02	57.29	-10.91	68.2	40.43	33.52	12.95	29.61	100	55	P	H
		5456.8	58.3	-15.7	74	42.15	32.89	12.82	29.56	100	120	P	V
		5468.8	57.37	-10.83	68.2	41.25	32.86	12.82	29.56	100	120	P	V
		5391.52	47.35	-6.65	54	31.25	32.88	12.76	29.54	100	120	A	V
	*	5550	107.49	-	-	91.41	32.8	12.86	29.58	100	120	P	V
	*	5550	98.13	-	-	82.05	32.8	12.86	29.58	100	120	A	V
		5756.18	57.78	-10.42	68.2	40.82	33.61	12.97	29.62	100	120	P	V

802.11ax HE40 Full CH 134 5670MHz		5410.55	55.02	-18.98	74	38.87	32.9	12.79	29.54	100	292	P	H
		5465.85	54.71	-13.49	68.2	38.58	32.87	12.82	29.56	100	292	P	H
		5455	45.55	-8.45	54	29.41	32.89	12.81	29.56	100	292	A	H
	*	5670	110.56	-	-	93.94	33.3	12.92	29.6	100	292	P	H
	*	5670	99.87	-	-	83.25	33.3	12.92	29.6	100	292	A	H
		5725	66.89	-1.31	68.2	50.1	33.45	12.95	29.61	100	292	P	H
		5450.1	56.59	-17.41	74	40.43	32.9	12.81	29.55	100	119	P	V
		5460.25	55.48	-12.72	68.2	39.34	32.88	12.82	29.56	100	119	P	V
		5459.2	46.48	-7.52	54	30.34	32.88	12.82	29.56	100	119	A	V
	*	5670	109.87	-	-	93.25	33.3	12.92	29.6	100	119	P	V
	*	5670	98.89	-	-	82.27	33.3	12.92	29.6	100	119	A	V
		5726.325	65.72	-2.48	68.2	48.92	33.46	12.95	29.61	100	119	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.91	-27.09	74	44.35	38.9	19.02	55.36	-	-	P	H
		16530	47.78	-20.42	68.2	40.18	38.44	24.04	54.88	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	46.95	-27.05	74	44.4	38.9	19.01	55.36	-	-	P	V
5510MHz		16530	47.93	-20.27	68.2	40.33	38.44	24.04	54.88	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	47.78	-26.22	74	45.12	38.9	19.06	55.3	-	-	P	H
		16650	47.75	-20.45	68.2	40.28	38.15	24.28	54.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	47.51	-26.49	74	44.85	38.9	19.06	55.3	-	-	P	V
5550MHz		16650	46.9	-21.3	68.2	39.43	38.15	24.28	54.96	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	46.31	-27.69	74	43.07	39.2	19.16	55.12	-	-	P	H
		17010	47.76	-20.44	68.2	40.27	37.7	24.99	55.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	47.05	-26.95	74	43.81	39.2	19.16	55.12	-	-	P	V
5670MHz		17010	48.07	-20.13	68.2	40.58	37.7	24.99	55.2	-	-	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 HE80 Full (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 106 5530MHz		5454.64	61.55	-12.45	74	45.41	32.89	12.81	29.56	100	62	P	H
		5466.4	62.37	-5.83	68.2	46.24	32.87	12.82	29.56	100	62	P	H
		5457.28	51.36	-2.64	54	35.21	32.89	12.82	29.56	100	62	A	H
	*	5530	105.78	-	-	89.71	32.8	12.85	29.58	100	62	P	H
	*	5530	96.07	-	-	80	32.8	12.85	29.58	100	62	A	H
		5733.185	56.93	-11.27	68.2	40.09	33.5	12.95	29.61	100	62	P	H
		5449.6	63.27	-10.73	74	47.11	32.9	12.81	29.55	100	91	P	V
		5467.12	66.05	-2.15	68.2	49.92	32.87	12.82	29.56	100	91	P	V
		5452.24	52.76	-1.24	54	36.6	32.9	12.81	29.55	100	91	A	V
	*	5530	101.7	-	-	85.63	32.8	12.85	29.58	100	91	P	V
	*	5530	92.52	-	-	76.45	32.8	12.85	29.58	100	91	A	V
		5740.745	55.3	-12.9	68.2	38.41	33.54	12.96	29.61	100	91	P	V
802.11ax HE80 Full CH 122 5610MHz		5448	60.64	-13.36	74	44.48	32.9	12.81	29.55	100	48	P	H
		5467.6	60.99	-7.21	68.2	44.87	32.86	12.82	29.56	100	48	P	H
		5459.9	52.26	-1.74	54	36.12	32.88	12.82	29.56	100	48	A	H
	*	5610	108.01	-	-	91.49	33.22	12.89	29.59	100	48	P	H
	*	5610	98.23	-	-	81.71	33.22	12.89	29.59	100	48	A	H
		5726.325	59.85	-8.35	68.2	43.05	33.46	12.95	29.61	100	48	P	H
		5431.55	59.02	-14.98	74	42.87	32.9	12.8	29.55	100	122	P	V
		5469.7	59.41	-8.79	68.2	43.29	32.86	12.82	29.56	100	122	P	V
		5446.6	50.93	-3.07	54	34.77	32.9	12.81	29.55	100	122	A	V
	*	5610	106.55	-	-	90.03	33.22	12.89	29.59	100	122	P	V
	*	5610	96.85	-	-	80.33	33.22	12.89	29.59	100	122	A	V
		5725.975	61.41	-6.79	68.2	44.61	33.46	12.95	29.61	100	122	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.47	-26.53	74	44.86	38.9	19.04	55.33	-	-	P	H
		16590	47.77	-20.43	68.2	40.21	38.32	24.16	54.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	46.57	-27.43	74	43.96	38.9	19.04	55.33	-	-	P	V
5530MHz		16590	48.08	-20.12	68.2	40.52	38.32	24.16	54.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.49	-26.51	74	44.55	39.04	19.11	55.21	-	-	P	H
		16830	47.7	-20.5	68.2	40.42	37.7	24.65	55.07	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	47.16	-26.84	74	44.22	39.04	19.11	55.21	-	-	P	V
5610MHz		16830	47.53	-20.67	68.2	40.25	37.7	24.65	55.07	-	-	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 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5354.29	54.61	-19.39	74	38.69	32.81	12.63	29.52	100	300	P	H
		5464.66	53.45	-14.75	68.2	37.32	32.87	12.82	29.56	100	300	P	H
		5456.08	43.74	-10.26	54	27.59	32.89	12.82	29.56	100	300	A	H
	*	5720	115.13	-	-	98.37	33.42	12.95	29.61	100	300	P	H
	*	5720	107.05	-	-	90.29	33.42	12.95	29.61	100	300	A	H
		5859.75	56.91	-11.29	68.2	39.74	34	12.8	29.63	100	300	P	H
		5397.58	55.72	-18.28	74	39.58	32.9	12.78	29.54	100	116	P	V
		5468.56	52.19	-16.01	68.2	36.07	32.86	12.82	29.56	100	116	P	V
		5443.21	44.12	-9.88	54	27.96	32.9	12.81	29.55	100	116	A	V
	*	5720	113.77	-	-	97.01	33.42	12.95	29.61	100	116	P	V
	*	5720	106.04	-	-	89.28	33.42	12.95	29.61	100	116	A	V
		5924.5	56.01	-12.19	68.2	39.02	34.05	12.59	29.65	100	116	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.32	-26.68	74	44.11	39.04	19.21	55.04	-	-	P	H
		17160	48.65	-19.55	68.2	41.42	37.7	25.06	55.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	46.85	-27.15	74	43.64	39.04	19.21	55.04	-	-	P	V
		17160	49.83	-18.37	68.2	42.6	37.7	25.06	55.53	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 144 5720MHz		5415.91	56.29	-17.71	74	40.13	32.9	12.8	29.54	106	82	P	H
		5463.88	55.15	-13.05	68.2	39.02	32.87	12.82	29.56	106	82	P	H
		5438.92	43.38	-10.62	54	27.22	32.9	12.81	29.55	106	82	A	H
	*	5720	114.13	-	-	97.37	33.42	12.95	29.61	106	82	P	H
	*	5720	104.59	-	-	87.83	33.42	12.95	29.61	106	82	A	H
		5885.75	57.55	-10.65	68.2	40.48	34	12.71	29.64	106	82	P	H
		5429.17	56.41	-17.59	74	40.26	32.9	12.8	29.55	100	118	P	V
		5462.71	55.26	-12.94	68.2	39.13	32.87	12.82	29.56	100	118	P	V
		5435.41	43.44	-10.56	54	27.28	32.9	12.81	29.55	100	118	A	V
	*	5720	115.11	-	-	98.35	33.42	12.95	29.61	100	118	P	V
	*	5720	105.11	-	-	88.35	33.42	12.95	29.61	100	118	A	V
		5895.75	58.73	-9.47	68.2	41.69	34	12.68	29.64	100	118	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.83	-27.17	74	43.62	39.04	19.21	55.04	-	-	P	H
		17160	47.51	-20.69	68.2	40.28	37.7	25.06	55.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	47.94	-26.06	74	44.73	39.04	19.21	55.04	-	-	P	V
5720MHz		17160	47.9	-20.3	68.2	40.67	37.7	25.06	55.53	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5439.31	54.85	-19.15	74	38.69	32.9	12.81	29.55	100	295	P	H
		5461.93	54.47	-13.73	68.2	38.33	32.88	12.82	29.56	100	295	P	H
		5456.86	44.52	-9.48	54	28.37	32.89	12.82	29.56	100	295	A	H
	*	5710	111.17	-	-	94.48	33.36	12.94	29.61	100	295	P	H
	*	5710	101.27	-	-	84.58	33.36	12.94	29.61	100	295	A	H
		5854	59.04	-9.16	68.2	41.86	34	12.81	29.63	100	295	P	H
		5430.73	55.24	-18.76	74	39.09	32.9	12.8	29.55	100	119	P	V
		5467.78	55.25	-12.95	68.2	39.13	32.86	12.82	29.56	100	119	P	V
		5448.28	46.99	-7.01	54	30.83	32.9	12.81	29.55	100	119	A	V
	*	5710	109.13	-	-	92.44	33.36	12.94	29.61	100	119	P	V
	*	5710	100.39	-	-	83.7	33.36	12.94	29.61	100	119	A	V
		5857	58.14	-10.06	68.2	40.97	34	12.8	29.63	100	119	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.07	-26.93	74	43.81	39.12	19.2	55.06	-	-	P	H
		17130	47	-21.2	68.2	39.71	37.7	25.05	55.46	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	46.44	-27.56	74	43.18	39.12	19.2	55.06	-	-	P	V
5710MHz		17130	47.86	-20.34	68.2	40.57	37.7	25.05	55.46	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5449.45	55.61	-18.39	74	39.45	32.9	12.81	29.55	100	293	P	H
		5463.49	56.24	-11.96	68.2	40.11	32.87	12.82	29.56	100	293	P	H
		5459.59	47.84	-6.16	54	31.7	32.88	12.82	29.56	100	293	A	H
	*	5690	107.65	-	-	91.02	33.3	12.93	29.6	100	293	P	H
	*	5690	98.18	-	-	81.55	33.3	12.93	29.6	100	293	A	H
		5853.75	60.53	-7.67	68.2	43.34	34	12.82	29.63	100	293	P	H
		5447.11	58.48	-15.52	74	42.32	32.9	12.81	29.55	100	119	P	V
		5465.83	58.74	-9.46	68.2	42.61	32.87	12.82	29.56	100	119	P	V
		5459.2	49.87	-4.13	54	33.73	32.88	12.82	29.56	100	119	A	V
	*	5690	107.31	-	-	90.68	33.3	12.93	29.6	100	119	P	V
	*	5690	97.19	-	-	80.56	33.3	12.93	29.6	100	119	A	V
		5887.25	60.88	-7.32	68.2	43.81	34	12.71	29.64	100	119	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.97	-26.03	74	44.68	39.2	19.18	55.09	-	-	P	H
		17070	47.59	-20.61	68.2	40.2	37.7	25.02	55.33	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	47.54	-26.46	74	44.25	39.2	19.18	55.09	-	-	P	V
5690MHz		17070	48.57	-19.63	68.2	41.18	37.7	25.02	55.33	-	-	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 802.11a (LF @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 LF		94.99	37.18	-6.32	43.5	52.59	15.2	1.7	32.31	-	-	P	H
		124.09	27.73	-15.77	43.5	40.46	17.53	2.01	32.27	-	-	P	H
		251.16	32.12	-13.88	46	42.74	18.73	2.89	32.24	-	-	P	H
		475.23	26.8	-19.2	46	31.78	23.61	3.8	32.39	-	-	P	H
		570.29	31.72	-14.28	46	34.1	25.9	4.2	32.48	-	-	P	H
		665.35	32.74	-13.26	46	34.57	26.16	4.47	32.46	-	-	P	H
													H
													H
													H
													H
													H
													H
		39.7	32.5	-7.5	40	44.22	19.56	1.01	32.29	-	-	P	V
		94.99	36.97	-6.53	43.5	52.38	15.2	1.7	32.31	-	-	P	V
		177.44	28.75	-14.75	43.5	43.37	15.23	2.37	32.22	-	-	P	V
		276.38	27.33	-18.67	46	37.77	18.84	2.99	32.27	-	-	P	V
		521.79	34.16	-11.84	46	38.51	24.03	3.99	32.37	-	-	P	V
		696.39	30.77	-15.23	46	32.21	26.41	4.55	32.4	-	-	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 and emission level has at least 6dB margin against limit or emission is noise floor only.

<TXBF Mode>

Band 1 - 5150~5250MHz

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

WIFI Ant.	Note	Frequency	Level	Margin Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 36 5180MHz		5149.24	63.86	-10.14	74	48.39	32.9	12.03	29.46	100	303	P	H
		5150	52.1	-1.9	54	36.63	32.9	12.03	29.46	100	303	P	H
	*	5180	110.02	-	-	94.45	32.96	12.08	29.47	100	303	P	H
	*	5180	101.4	-	-	85.83	32.96	12.08	29.47	100	303	A	H
													H
													H
		5148.46	61.25	-12.75	74	45.77	32.91	12.03	29.46	100	122	P	V
		5150	50.89	-3.11	54	35.42	32.9	12.03	29.46	100	122	A	V
	*	5180	109.69	-	-	94.12	32.96	12.08	29.47	100	122	P	V
	*	5180	101.31	-	-	85.74	32.96	12.08	29.47	100	122	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5138.84	56.33	-17.67	74	40.79	32.97	12.02	29.45	100	332	P	H
		5143	45.41	-8.59	54	29.91	32.94	12.02	29.46	100	332	A	H
	*	5220	112.14	-	-	96.48	32.96	12.18	29.48	100	332	P	H
	*	5220	103.34	-	-	87.68	32.96	12.18	29.48	100	332	A	H
		5426.96	53.39	-20.61	74	37.24	32.9	12.8	29.55	100	332	P	H
		5351.92	43.11	-10.89	54	27.2	32.8	12.63	29.52	100	332	A	H
		5132.86	55.21	-18.79	74	39.65	33	12.01	29.45	100	105	P	V
		5149.24	45.11	-8.89	54	29.64	32.9	12.03	29.46	100	105	A	V
	*	5220	111.96	-	-	96.3	32.96	12.18	29.48	100	105	P	V
	*	5220	103.22	-	-	87.56	32.96	12.18	29.48	100	105	A	V
		5361.44	52.95	-21.05	74	37	32.82	12.66	29.53	100	105	P	V
		5352.48	43.65	-10.35	54	27.74	32.8	12.63	29.52	100	105	A	V

802.11ax HE20 Full CH 48 5240MHz		5127.4	55.25	-18.75	74	39.66	33.04	12	29.45	100	332	P	H
		5130	44.69	-9.31	54	29.12	33.02	12	29.45	100	332	A	H
	*	5240	112.63	-	-	96.95	32.92	12.25	29.49	100	332	P	H
	*	5240	102.82	-	-	87.14	32.92	12.25	29.49	100	332	A	H
		5353.6	54.43	-19.57	74	38.51	32.81	12.63	29.52	100	332	P	H
		5350.24	43.81	-10.19	54	27.91	32.8	12.62	29.52	100	332	A	H
		5114.92	54.27	-19.73	74	38.63	33.11	11.98	29.45	100	117	P	V
		5136.24	44.91	-9.09	54	29.37	32.98	12.01	29.45	100	117	A	V
	*	5240	110.71	-	-	95.03	32.92	12.25	29.49	100	117	P	V
	*	5240	102.34	-	-	86.66	32.92	12.25	29.49	100	117	A	V
		5363.4	54.33	-19.67	74	38.36	32.83	12.67	29.53	100	117	P	V
		5352.2	44.6	-9.4	54	28.69	32.8	12.63	29.52	100	117	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.34	-20.86	68.2	45.38	38.66	18.9	55.6	-	-	P	H
		15540	47.29	-26.71	74	41.04	38.28	22.65	54.68	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	47.61	-20.59	68.2	45.65	38.66	18.9	55.6	-	-	P	V
5180MHz		15540	47.08	-26.92	74	40.83	38.28	22.65	54.68	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.33	-20.87	68.2	45.3	38.66	18.91	55.54	-	-	P	H
		15660	46.69	-27.31	74	40.95	37.86	22.74	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	47.2	-21	68.2	45.17	38.66	18.91	55.54	-	-	P	V
5220MHz		15660	46.64	-27.36	74	40.9	37.86	22.74	54.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.4	-19.8	68.2	46.37	38.62	18.92	55.51	-	-	P	H
		15720	47.94	-26.06	74	42.41	37.7	22.78	54.95	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	47.96	-20.24	68.2	45.93	38.62	18.92	55.51	-	-	P	V
5240MHz		15720	47.3	-26.7	74	41.77	37.7	22.78	54.95	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 38 5190MHz		5149.76	61.03	-12.97	74	45.56	32.9	12.03	29.46	100	328	P	H
		5148.72	51.65	-2.35	54	36.17	32.91	12.03	29.46	100	328	A	H
	*	5190	107.43	-	-	91.83	32.98	12.09	29.47	100	328	P	H
	*	5190	96.98	-	-	81.38	32.98	12.09	29.47	100	328	A	H
		5362.28	54.21	-19.79	74	38.26	32.82	12.66	29.53	100	328	P	H
		5351.92	45.15	-8.85	54	29.24	32.8	12.63	29.52	100	328	A	H
		5136.76	59.29	-14.71	74	43.75	32.98	12.01	29.45	100	119	P	V
		5148.98	50.67	-3.33	54	35.19	32.91	12.03	29.46	100	119	A	V
	*	5190	105.59	-	-	89.99	32.98	12.09	29.47	100	119	P	V
	*	5190	95.42	-	-	79.82	32.98	12.09	29.47	100	119	A	V
		5351.64	55.08	-18.92	74	39.17	32.8	12.63	29.52	100	119	P	V
		5369	44.77	-9.23	54	28.78	32.84	12.68	29.53	100	119	A	V
802.11ax HE40 Full CH 46 5230MHz		5145.08	61.29	-12.71	74	45.8	32.93	12.02	29.46	100	301	P	H
		5149.76	49.56	-4.44	54	34.09	32.9	12.03	29.46	100	301	A	H
	*	5230	107.13	-	-	91.46	32.94	12.21	29.48	100	301	P	H
	*	5230	97.47	-	-	81.8	32.94	12.21	29.48	100	301	A	H
		5395.6	54.33	-19.67	74	38.2	32.89	12.78	29.54	100	301	P	H
		5407.36	43.34	-10.66	54	27.19	32.9	12.79	29.54	100	301	A	H
		5146.12	58.85	-15.15	74	43.36	32.92	12.03	29.46	100	105	P	V
		5149.24	46.59	-7.41	54	31.12	32.9	12.03	29.46	100	105	A	V
	*	5230	107.78	-	-	92.11	32.94	12.21	29.48	100	105	P	V
	*	5230	98.19	-	-	82.52	32.94	12.21	29.48	100	105	A	V
		5407.08	54.8	-19.2	74	38.65	32.9	12.79	29.54	100	105	P	V
		5360.32	46.07	-7.93	54	30.12	32.82	12.66	29.53	100	105	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.91	-19.29	68.2	46.92	38.68	18.9	55.59	-	-	P	H
		15570	47.31	-26.69	74	41.17	38.19	22.68	54.73	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	48.16	-20.04	68.2	46.17	38.68	18.9	55.59	-	-	P	V
5190MHz		15570	46.96	-27.04	74	40.82	38.19	22.68	54.73	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.1	-20.1	68.2	46.07	38.64	18.91	55.52	-	-	P	H
		15690	47.11	-26.89	74	41.52	37.74	22.76	54.91	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	47.81	-20.39	68.2	45.78	38.64	18.91	55.52	-	-	P	V
5230MHz		15690	46.85	-27.15	74	41.26	37.74	22.76	54.91	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5145.08	62.81	-11.19	74	47.32	32.93	12.02	29.46	100	329	P	H
		5148.46	52.38	-1.62	54	36.9	32.91	12.03	29.46	100	329	A	H
	*	5210	104.47	-	-	88.83	32.98	12.14	29.48	100	329	P	H
	*	5210	94.42	-	-	78.78	32.98	12.14	29.48	100	329	A	H
		5391.12	55.16	-18.84	74	39.06	32.88	12.76	29.54	100	329	P	H
		5397.28	46.43	-7.57	54	30.3	32.89	12.78	29.54	100	329	A	H
		5150	63.77	-10.23	74	48.3	32.9	12.03	29.46	100	120	P	V
		5147.94	50.16	-3.84	54	34.68	32.91	12.03	29.46	100	120	A	V
	*	5210	102.63	-	-	86.99	32.98	12.14	29.48	100	120	P	V
	*	5210	92.98	-	-	77.34	32.98	12.14	29.48	100	120	A	V
		5401.2	56.8	-17.2	74	40.65	32.9	12.79	29.54	100	120	P	V
		5397.56	46.25	-7.75	54	30.11	32.9	12.78	29.54	100	120	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	48.38	-19.82	68.2	46.34	38.68	18.91	55.55	-	-	P	H
		15630	46.56	-27.44	74	40.68	37.98	22.72	54.82	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	47.13	-21.07	68.2	45.09	38.68	18.91	55.55	-	-	P	V
5210MHz		15630	46.57	-27.43	74	40.69	37.98	22.72	54.82	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 52 5260MHz		5130.22	53.92	-20.08	74	38.35	33.02	12	29.45	100	351	P	H
		5145.86	43.81	-10.19	54	28.32	32.92	12.03	29.46	100	351	A	H
	*	5260	112.56	-	-	96.82	32.92	12.31	29.49	100	351	P	H
	*	5260	102.08	-	-	86.34	32.92	12.31	29.49	100	351	A	H
		5350.8	56.05	-17.95	74	40.15	32.8	12.62	29.52	100	351	P	H
		5350.8	44.57	-9.43	54	28.67	32.8	12.62	29.52	100	351	A	H
		5128.18	56.58	-17.42	74	41	33.03	12	29.45	100	116	P	V
		5147.22	44.28	-9.72	54	28.79	32.92	12.03	29.46	100	116	A	V
	*	5260	112.34	-	-	96.6	32.92	12.31	29.49	100	116	P	V
	*	5260	102.75	-	-	87.01	32.92	12.31	29.49	100	116	A	V
		5351.52	57.4	-16.6	74	41.49	32.8	12.63	29.52	100	116	P	V
		5350.32	44.86	-9.14	54	28.96	32.8	12.62	29.52	100	116	A	V
802.11ax HE20 Full CH 60 5300MHz		5075.82	54.48	-19.52	74	38.98	33.01	11.92	29.43	100	325	P	H
		5117.3	44.23	-9.77	54	28.6	33.1	11.98	29.45	100	325	A	H
	*	5300	110.06	-	-	94.12	33	12.45	29.51	100	325	P	H
	*	5300	101.76	-	-	85.82	33	12.45	29.51	100	325	A	H
		5361.84	56.79	-17.21	74	40.84	32.82	12.66	29.53	100	325	P	H
		5353.2	45.56	-8.44	54	29.64	32.81	12.63	29.52	100	325	A	H
		5101.32	53.3	-20.7	74	37.59	33.19	11.96	29.44	100	87	P	V
		5117.3	43.67	-10.33	54	28.04	33.1	11.98	29.45	100	87	A	V
	*	5300	110.96	-	-	95.02	33	12.45	29.51	100	87	P	V
	*	5300	102.65	-	-	86.71	33	12.45	29.51	100	87	A	V
		5351.52	58.2	-15.8	74	42.29	32.8	12.63	29.52	100	87	P	V
		5351.28	47.26	-6.74	54	31.36	32.8	12.62	29.52	100	87	A	V

	*	5320	108.14	-	-	92.21	32.92	12.52	29.51	100	349	P	H
	*	5320	100.06	-	-	84.13	32.92	12.52	29.51	100	349	A	H
		5351.36	58.58	-15.42	74	42.68	32.8	12.62	29.52	100	349	P	H
		5350.24	49.57	-4.43	54	33.67	32.8	12.62	29.52	100	349	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	109.56	-	-	93.63	32.92	12.52	29.51	100	87	P	V
5320MHz	*	5320	101.67	-	-	85.74	32.92	12.52	29.51	100	87	A	V
		5351.36	66.16	-7.84	74	50.26	32.8	12.62	29.52	100	87	P	V
		5350.08	51.78	-2.22	54	35.88	32.8	12.62	29.52	100	87	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.38	-20.82	68.2	45.26	38.68	18.93	55.49	-	-	P	H
		15780	46.59	-27.41	74	41.11	37.7	22.83	55.05	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	47.59	-20.61	68.2	45.47	38.68	18.93	55.49	-	-	P	V
5260MHz		15780	47.78	-26.22	74	42.3	37.7	22.83	55.05	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.86	-26.14	74	45.38	39	18.95	55.47	-	-	P	H
		15900	47.35	-26.65	74	41.78	37.9	22.9	55.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	47.95	-26.05	74	45.47	39	18.95	55.47	-	-	P	V
5300MHz		15900	46.56	-27.44	74	40.99	37.9	22.9	55.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.97	-26.03	74	45.48	39	18.95	55.46	-	-	P	H
		15960	46.38	-27.62	74	41.03	37.72	22.95	55.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		10640	47.98	-26.02	74	45.49	39	18.95	55.46	-	-	P	V
5320MHz		15960	46.46	-27.54	74	41.11	37.72	22.95	55.32	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 54 5270MHz		5140.08	56.96	-17.04	74	41.43	32.96	12.02	29.45	100	330	P	H
		5107.78	46.89	-7.11	54	31.21	33.15	11.97	29.44	100	330	A	H
	*	5270	107.33	-	-	91.54	32.94	12.35	29.5	100	330	P	H
	*	5270	98.17	-	-	82.38	32.94	12.35	29.5	100	330	A	H
		5350.56	56.31	-17.69	74	40.41	32.8	12.62	29.52	100	330	P	H
		5350.08	46.05	-7.95	54	30.15	32.8	12.62	29.52	100	330	A	H
		5090.78	55.82	-18.18	74	40.19	33.13	11.94	29.44	100	80	P	V
		5088.06	45.61	-8.39	54	30.01	33.1	11.94	29.44	100	80	A	V
	*	5270	112.14	-	-	96.35	32.94	12.35	29.5	100	80	P	V
	*	5270	100.73	-	-	84.94	32.94	12.35	29.5	100	80	A	V
		5352	58.37	-15.63	74	42.46	32.8	12.63	29.52	100	80	P	V
		5350.08	48.12	-5.88	54	32.22	32.8	12.62	29.52	100	80	A	V
802.11ax HE40 Full CH 62 5310MHz		5112.88	56.35	-17.65	74	40.71	33.12	11.97	29.45	100	326	P	H
		5126.82	45.64	-8.36	54	30.05	33.04	12	29.45	100	326	A	H
	*	5310	106.09	-	-	90.16	32.96	12.48	29.51	100	326	P	H
	*	5310	95.78	-	-	79.85	32.96	12.48	29.51	100	326	A	H
		5351.76	60.86	-13.14	74	44.95	32.8	12.63	29.52	100	326	P	H
		5352	50.67	-3.33	54	34.76	32.8	12.63	29.52	100	326	A	H
		5079.22	54.98	-19.02	74	39.47	33.03	11.92	29.44	100	89	P	V
		5126.82	45.12	-8.88	54	29.53	33.04	12	29.45	100	89	A	V
	*	5310	107.53	-	-	91.6	32.96	12.48	29.51	100	89	P	V
	*	5310	96.99	-	-	81.06	32.96	12.48	29.51	100	89	A	V
		5350.08	61.23	-12.77	74	45.33	32.8	12.62	29.52	100	89	P	V
		5350.08	52.74	-1.26	54	36.84	32.8	12.62	29.52	100	89	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.89	-21.31	68.2	44.67	38.76	18.94	55.48	-	-	P	H
		15810	46.06	-27.94	74	40.58	37.72	22.85	55.09	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	47.07	-21.13	68.2	44.85	38.76	18.94	55.48	-	-	P	V
5270MHz		15810	46.12	-27.88	74	40.64	37.72	22.85	55.09	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.92	-26.08	74	45.43	39	18.95	55.46	-	-	P	H
		15930	47.33	-26.67	74	41.86	37.81	22.93	55.27	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		10620	47.95	-26.05	74	45.46	39	18.95	55.46	-	-	P	V
5310MHz		15930	46.08	-27.92	74	40.61	37.81	22.93	55.27	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5101.66	55.23	-18.77	74	39.52	33.19	11.96	29.44	100	348	P	H
		5102.34	45.14	-8.86	54	29.43	33.19	11.96	29.44	100	348	A	H
	*	5290	102.03	-	-	86.13	32.98	12.42	29.5	100	348	P	H
	*	5290	91.53	-	-	75.63	32.98	12.42	29.5	100	348	A	H
		5354.88	60.08	-13.92	74	44.15	32.81	12.64	29.52	100	348	P	H
		5351.76	51.06	-2.94	54	35.15	32.8	12.63	29.52	100	348	A	H
		5140.08	56.33	-17.67	74	40.8	32.96	12.02	29.45	100	118	P	V
		5126.14	45.87	-8.13	54	30.28	33.04	12	29.45	100	118	A	V
	*	5290	103.58	-	-	87.68	32.98	12.42	29.5	100	118	P	V
	*	5290	93.82	-	-	77.92	32.98	12.42	29.5	100	118	A	V
		5362.8	60.69	-13.31	74	44.73	32.83	12.66	29.53	100	118	P	V
		5350.56	51.47	-2.53	54	35.57	32.8	12.62	29.52	100	118	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.78	-20.42	68.2	45.39	38.92	18.94	55.47	-	-	P	H
		15870	47	-27	74	41.45	37.84	22.89	55.18	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	47.72	-20.48	68.2	45.33	38.92	18.94	55.47	-	-	P	V
5290MHz		15870	46.93	-27.07	74	41.38	37.84	22.89	55.18	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 HE20 Full CH 100 5500MHz		5460.08	61.36	-6.84	68.2	45.22	32.88	12.82	29.56	100	36	P	H
		5469.04	66.73	-1.47	68.2	50.61	32.86	12.82	29.56	100	36	P	H
		5459.28	49.44	-4.56	54	33.3	32.88	12.82	29.56	100	36	A	H
	*	5500	115.23	-	-	99.16	32.8	12.84	29.57	100	36	P	H
	*	5500	106.14	-	-	90.07	32.8	12.84	29.57	100	36	A	H
		5455.76	59.74	-14.26	74	43.59	32.89	12.82	29.56	100	91	P	V
		5468.08	64.94	-3.26	68.2	48.82	32.86	12.82	29.56	100	91	P	V
		5459.92	48.43	-5.57	54	32.29	32.88	12.82	29.56	100	91	A	V
	*	5500	112.57	-	-	96.5	32.8	12.84	29.57	100	91	P	V
	*	5500	102.82	-	-	86.75	32.8	12.84	29.57	100	91	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5436.16	56.91	-17.09	74	40.75	32.9	12.81	29.55	100	61	P	H
		5465.2	53.48	-14.72	68.2	37.35	32.87	12.82	29.56	100	61	P	H
		5459.92	43.35	-10.65	54	27.21	32.88	12.82	29.56	100	61	A	H
	*	5580	113.21	-	-	96.88	33.04	12.87	29.58	100	61	P	H
	*	5580	105.76	-	-	89.43	33.04	12.87	29.58	100	61	A	H
		5759.645	53.59	-14.61	68.2	36.62	33.62	12.97	29.62	100	61	P	H
		5444.32	54.38	-19.62	74	38.22	32.9	12.81	29.55	100	117	P	V
		5467.12	53.48	-14.72	68.2	37.35	32.87	12.82	29.56	100	117	P	V
		5458.96	42.96	-11.04	54	26.82	32.88	12.82	29.56	100	117	A	V
	*	5580	110.87	-	-	94.54	33.04	12.87	29.58	100	117	P	V
	*	5580	102.24	-	-	85.91	33.04	12.87	29.58	100	117	A	V
		5748.935	54.29	-13.91	68.2	37.35	33.59	12.96	29.61	100	117	P	V

802.11ax HE20 Full CH 140 5700MHz	*	5700	110.66	-	-	94.04	33.3	12.93	29.61	100	351	P	H
	*	5700	101.11	-	-	84.49	33.3	12.93	29.61	100	351	A	H
		5725.08	65.78	-2.42	68.2	48.99	33.45	12.95	29.61	100	351	P	H
													H
													H
													H
	*	5700	110.51	-	-	93.89	33.3	12.93	29.61	100	121	P	V
	*	5700	101.53	-	-	84.91	33.3	12.93	29.61	100	121	A	V
		5725.24	65.6	-2.6	68.2	48.81	33.45	12.95	29.61	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.13	-26.87	74	44.59	38.9	19.01	55.37	-	-	P	H
		16500	48.6	-19.6	68.2	40.98	38.5	23.98	54.86	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	47.6	-26.4	74	45.06	38.9	19.01	55.37	-	-	P	V
5500MHz		16500	47.51	-20.69	68.2	39.89	38.5	23.98	54.86	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	46.96	-27.04	74	44.16	38.96	19.09	55.25	-	-	P	H
		16740	48.01	-20.19	68.2	40.68	37.88	24.46	55.01	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	47.29	-26.71	74	44.49	38.96	19.09	55.25	-	-	P	V
5580MHz		16740	49.87	-18.33	68.2	42.54	37.88	24.46	55.01	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.1	-26.9	74	43.78	39.2	19.19	55.07	-	-	P	H
		17100	49.66	-18.54	68.2	42.33	37.7	25.03	55.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	47.97	-26.03	74	44.65	39.2	19.19	55.07	-	-	P	V
5700MHz		17100	48.98	-19.22	68.2	41.65	37.7	25.03	55.4	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 102 5510MHz		5454.4	63.32	-10.68	74	47.18	32.89	12.81	29.56	100	48	P	H
		5469.04	65.57	-2.63	68.2	49.45	32.86	12.82	29.56	100	48	P	H
		5459.68	50	-4	54	33.86	32.88	12.82	29.56	100	48	A	H
	*	5510	108.4	-	-	92.33	32.8	12.84	29.57	100	48	P	H
	*	5510	99.24	-	-	83.17	32.8	12.84	29.57	100	48	A	H
		5738.54	55.29	-12.91	68.2	38.41	33.53	12.96	29.61	100	48	P	H
		5458	60.93	-13.07	74	44.79	32.88	12.82	29.56	100	91	P	V
		5470	64.05	-4.15	68.2	47.93	32.86	12.82	29.56	100	91	P	V
		5459.92	49.21	-4.79	54	33.07	32.88	12.82	29.56	100	91	A	V
	*	5510	106.59	-	-	90.52	32.8	12.84	29.57	100	91	P	V
	*	5510	95.94	-	-	79.87	32.8	12.84	29.57	100	91	A	V
		5742.32	55.59	-12.61	68.2	38.69	33.55	12.96	29.61	100	91	P	V
802.11ax HE40 Full CH 110 5550MHz		5453.2	57.6	-16.4	74	41.46	32.89	12.81	29.56	100	53	P	H
		5469.76	58.53	-9.67	68.2	42.41	32.86	12.82	29.56	100	53	P	H
		5458.72	47.67	-6.33	54	31.53	32.88	12.82	29.56	100	53	A	H
	*	5550	111.76	-	-	95.68	32.8	12.86	29.58	100	53	P	H
	*	5550	101.91	-	-	85.83	32.8	12.86	29.58	100	53	A	H
		5731.295	57.4	-10.8	68.2	40.57	33.49	12.95	29.61	100	53	P	H
		5385.04	57.65	-16.35	74	41.57	32.87	12.74	29.53	100	120	P	V
		5467.6	57.83	-10.37	68.2	41.71	32.86	12.82	29.56	100	120	P	V
		5437.84	46.82	-7.18	54	30.66	32.9	12.81	29.55	100	120	A	V
	*	5550	107.83	-	-	91.75	32.8	12.86	29.58	100	120	P	V
	*	5550	98.19	-	-	82.11	32.8	12.86	29.58	100	120	A	V
		5743.895	57.29	-10.91	68.2	40.38	33.56	12.96	29.61	100	120	P	V

802.11ax HE40 Full CH 134 5670MHz		5354.9	54.78	-19.22	74	38.85	32.81	12.64	29.52	100	299	P	H
		5466.9	53.18	-15.02	68.2	37.05	32.87	12.82	29.56	100	299	P	H
		5457.1	44.25	-9.75	54	28.1	32.89	12.82	29.56	100	299	A	H
	*	5670	109.17	-	-	92.55	33.3	12.92	29.6	100	299	P	H
	*	5670	99.61	-	-	82.99	33.3	12.92	29.6	100	299	A	H
		5726.5	65.76	-2.44	68.2	48.96	33.46	12.95	29.61	100	299	P	H
		5444.85	55.53	-18.47	74	39.37	32.9	12.81	29.55	100	119	P	V
		5466.9	55.8	-12.4	68.2	39.67	32.87	12.82	29.56	100	119	P	V
		5446.6	45.72	-8.28	54	29.56	32.9	12.81	29.55	100	119	A	V
	*	5670	109.3	-	-	92.68	33.3	12.92	29.6	100	119	P	V
	*	5670	99.52	-	-	82.9	33.3	12.92	29.6	100	119	A	V
		5725.1	64.15	-4.05	68.2	47.36	33.45	12.95	29.61	100	119	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.63	-26.37	74	45.07	38.9	19.02	55.36	-	-	P	H
		16530	49.78	-18.42	68.2	42.18	38.44	24.04	54.88	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	47.77	-26.23	74	45.21	38.9	19.02	55.36	-	-	P	V
5510MHz		16530	48.25	-19.95	68.2	40.65	38.44	24.04	54.88	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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	47.97	-26.03	74	45.31	38.9	19.06	55.3	-	-	P	H
		16650	48	-20.2	68.2	40.53	38.15	24.28	54.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	47.91	-26.09	74	45.25	38.9	19.06	55.3	-	-	P	V
5550MHz		16650	49.52	-18.68	68.2	42.05	38.15	24.28	54.96	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.6	-26.4	74	44.36	39.2	19.16	55.12	-	-	P	H
		17010	48.82	-19.38	68.2	41.33	37.7	24.99	55.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	47.71	-26.29	74	44.47	39.2	19.16	55.12	-	-	P	V
5670MHz		17010	48.9	-19.3	68.2	41.41	37.7	24.99	55.2	-	-	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 HE80 Full (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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 106 5530MHz		5456.32	62.86	-11.14	74	46.71	32.89	12.82	29.56	109	61	P	H
		5468.32	63.54	-4.66	68.2	47.42	32.86	12.82	29.56	109	61	P	H
		5459.2	52.49	-1.51	54	36.35	32.88	12.82	29.56	109	61	A	H
	*	5530	106.1	-	-	90.03	32.8	12.85	29.58	109	61	P	H
	*	5530	96.45	-	-	80.38	32.8	12.85	29.58	109	61	A	H
		5745.785	56.18	-12.02	68.2	39.26	33.57	12.96	29.61	109	61	P	H
		5454.64	61.23	-12.77	74	45.09	32.89	12.81	29.56	100	91	P	V
		5463.76	62.84	-5.36	68.2	46.71	32.87	12.82	29.56	100	91	P	V
		5455.6	50.05	-3.95	54	33.9	32.89	12.82	29.56	100	91	A	V
	*	5530	104.73	-	-	88.66	32.8	12.85	29.58	100	91	P	V
	*	5530	92.71	-	-	76.64	32.8	12.85	29.58	100	91	A	V
		5726.57	54.86	-13.34	68.2	38.06	33.46	12.95	29.61	100	91	P	V
802.11ax HE80 Full CH 122 5610MHz		5440.24	59.19	-14.81	74	43.03	32.9	12.81	29.55	105	58	P	H
		5468.56	60.38	-7.82	68.2	44.26	32.86	12.82	29.56	105	58	P	H
		5453.92	50.28	-3.72	54	34.14	32.89	12.81	29.56	105	58	A	H
	*	5610	109.08	-	-	92.56	33.22	12.89	29.59	105	58	P	H
	*	5610	99	-	-	82.48	33.22	12.89	29.59	105	58	A	H
		5725.625	60.36	-7.84	68.2	43.57	33.45	12.95	29.61	105	58	P	H
		5431.36	60.26	-13.74	74	44.11	32.9	12.8	29.55	100	121	P	V
		5470	58.02	-10.18	68.2	41.9	32.86	12.82	29.56	100	121	P	V
		5435.2	48.81	-5.19	54	32.65	32.9	12.81	29.55	100	121	A	V
	*	5610	107.91	-	-	91.39	33.22	12.89	29.59	100	121	P	V
	*	5610	96.73	-	-	80.21	33.22	12.89	29.59	100	121	A	V
		5737.91	60.49	-7.71	68.2	43.61	33.53	12.96	29.61	100	121	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.75	-26.25	74	45.14	38.9	19.04	55.33	-	-	P	H
		16590	47.69	-20.51	68.2	40.13	38.32	24.16	54.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	47.97	-26.03	74	45.36	38.9	19.04	55.33	-	-	P	V
5530MHz		16590	48.44	-19.76	68.2	40.88	38.32	24.16	54.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.76	-26.24	74	44.82	39.04	19.11	55.21	-	-	P	H
		16830	48.62	-19.58	68.2	41.34	37.7	24.65	55.07	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	47.67	-26.33	74	44.73	39.04	19.11	55.21	-	-	P	V
5610MHz		16830	47.97	-20.23	68.2	40.69	37.7	24.65	55.07	-	-	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 3 - Straddle Channel

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

WIFI Ant.	Note	Frequency	Level	Margin Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 144 5720MHz		5353.12	55.86	-18.14	74	39.94	32.81	12.63	29.52	100	326	P	H
		5465.05	56.46	-11.74	68.2	40.33	32.87	12.82	29.56	100	326	P	H
		5409.28	43.45	-10.55	54	27.3	32.9	12.79	29.54	100	326	A	H
	*	5720	116.46	-	-	99.7	33.42	12.95	29.61	100	326	P	H
	*	5720	107.38	-	-	90.62	33.42	12.95	29.61	100	326	A	H
		5851.25	58.71	-9.49	68.2	41.52	34	12.82	29.63	100	326	P	H
		5458.03	56.67	-17.33	74	40.53	32.88	12.82	29.56	100	118	P	V
		5465.44	55.06	-13.14	68.2	38.93	32.87	12.82	29.56	100	118	P	V
		5438.14	43.93	-10.07	54	27.77	32.9	12.81	29.55	100	118	A	V
	*	5720	116.48	-	-	99.72	33.42	12.95	29.61	100	118	P	V
	*	5720	106.07	-	-	89.31	33.42	12.95	29.61	100	118	A	V
		5853.25	57.94	-10.26	68.2	40.75	34	12.82	29.63	100	118	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.69	-26.31	74	44.48	39.04	19.21	55.04	-	-	P	H
		17160	48.48	-19.72	68.2	41.25	37.7	25.06	55.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11444	47.5	-26.5	74	44.31	39.02	19.21	55.04	-	-	P	V
5720MHz		17160	47.64	-20.56	68.2	40.41	37.7	25.06	55.53	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5364.43	55.57	-18.43	74	39.6	32.83	12.67	29.53	100	326	P	H
		5464.27	56.5	-11.7	68.2	40.37	32.87	12.82	29.56	100	326	P	H
		5455.3	43.95	-10.05	54	27.81	32.89	12.81	29.56	100	326	A	H
	*	5710	111.2	-	-	94.51	33.36	12.94	29.61	100	326	P	H
	*	5710	101.7	-	-	85.01	33.36	12.94	29.61	100	326	A	H
		5872	59.55	-8.65	68.2	42.43	34	12.76	29.64	100	326	P	H
		5417.86	56.93	-17.07	74	40.77	32.9	12.8	29.54	100	116	P	V
		5468.56	55.87	-12.33	68.2	39.75	32.86	12.82	29.56	100	116	P	V
		5429.17	44.59	-9.41	54	28.44	32.9	12.8	29.55	100	116	A	V
	*	5710	110.93	-	-	94.24	33.36	12.94	29.61	100	116	P	V
	*	5710	100.75	-	-	84.06	33.36	12.94	29.61	100	116	A	V
		5850.5	60.71	-7.49	68.2	43.51	34	12.83	29.63	100	116	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.72	-26.28	74	44.46	39.12	19.2	55.06	-	-	P	H
		17130	48.92	-19.28	68.2	41.63	37.7	25.05	55.46	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	47.45	-26.55	74	44.19	39.12	19.2	55.06	-	-	P	V
5710MHz		17130	48.2	-20	68.2	40.91	37.7	25.05	55.46	-	-	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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		5439.7	61.36	-12.64	74	45.2	32.9	12.81	29.55	100	59	P	H
		5469.34	59.85	-8.35	68.2	43.73	32.86	12.82	29.56	100	59	P	H
		5459.2	48.28	-5.72	54	32.14	32.88	12.82	29.56	100	59	A	H
	*	5690	107.19	-	-	90.56	33.3	12.93	29.6	100	59	P	H
	*	5690	97.2	-	-	80.57	33.3	12.93	29.6	100	59	A	H
		5896	60.79	-7.41	68.2	43.75	34	12.68	29.64	100	59	P	H
		5446.33	58.59	-15.41	74	42.43	32.9	12.81	29.55	100	119	P	V
		5467	58.67	-9.53	68.2	42.54	32.87	12.82	29.56	100	119	P	V
		5458.42	49.41	-4.59	54	33.27	32.88	12.82	29.56	100	119	A	V
	*	5690	108.46	-	-	91.83	33.3	12.93	29.6	100	119	P	V
	*	5690	97.04	-	-	80.41	33.3	12.93	29.6	100	119	A	V
		5860.5	62.5	-5.7	68.2	45.34	34	12.79	29.63	100	119	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. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Margin 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	47.97	-26.03	74	44.68	39.2	19.18	55.09	-	-	P	H
		17070	49.22	-18.98	68.2	41.83	37.7	25.02	55.33	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	47.04	-26.96	74	43.75	39.2	19.18	55.09	-	-	P	V
5690MHz		17070	49.49	-18.71	68.2	42.1	37.7	25.02	55.33	-	-	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.												

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 **Margin 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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	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. Margin Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5150MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Andy Yan, Karl Hou and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

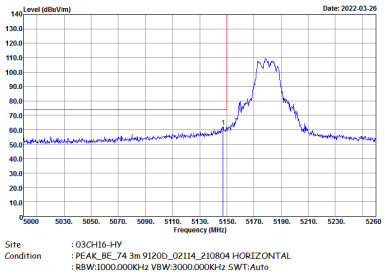
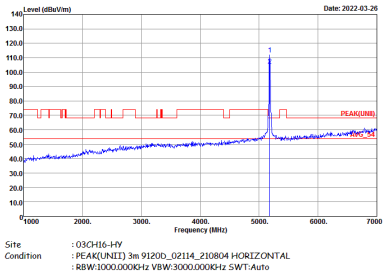
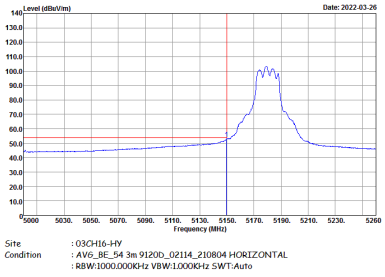
Note symbol

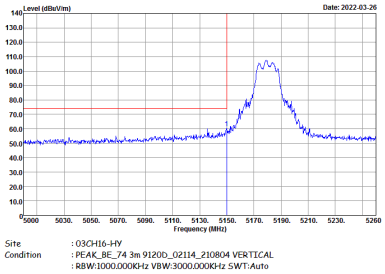
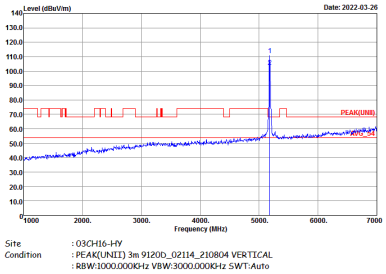
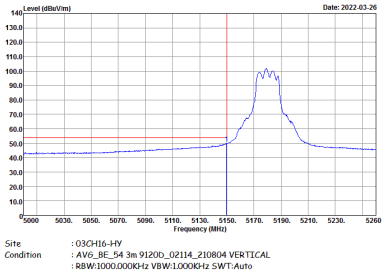
-L	**Low channel location**
-R	**High channel location**

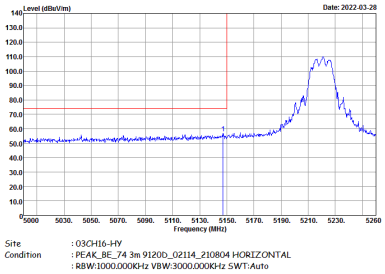
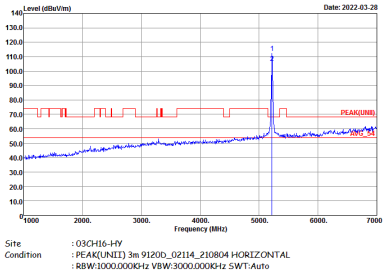
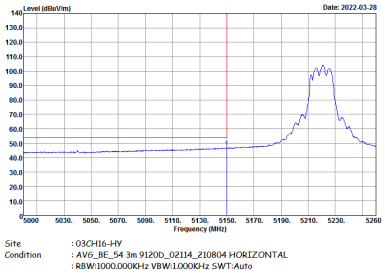
<CDD Mode>

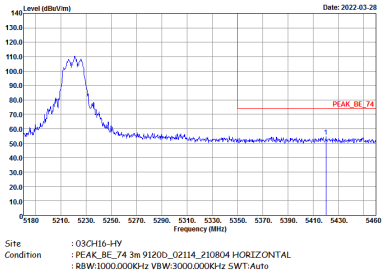
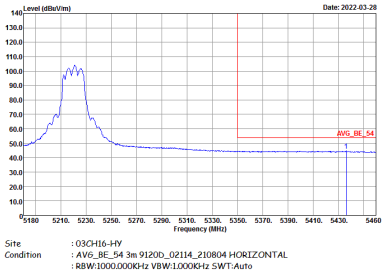
Band 1 - 5150~5250MHz

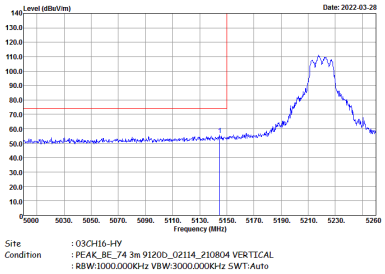
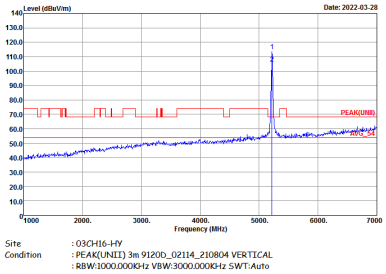
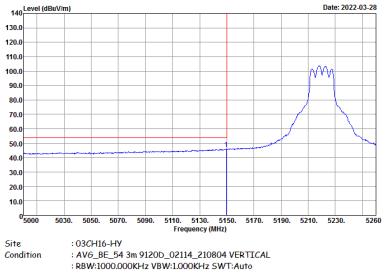
WIFI 802.11a (Band Edge @ 3m)

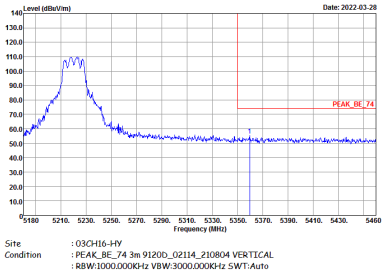
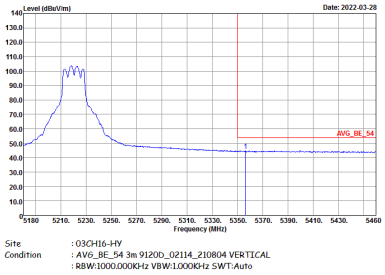
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

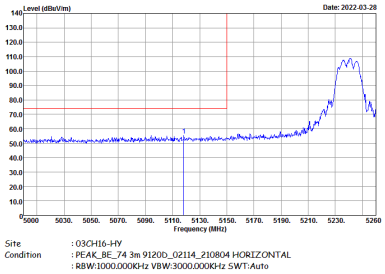
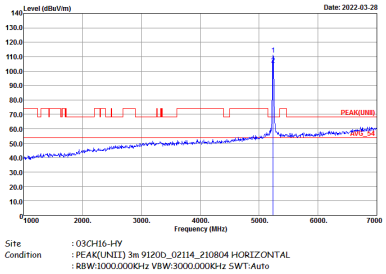
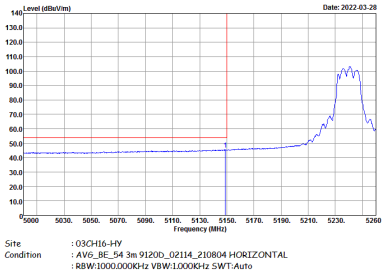
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

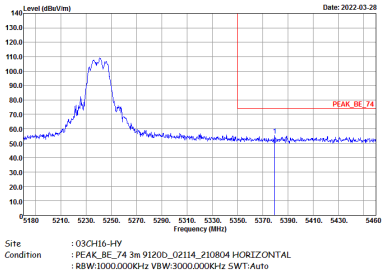
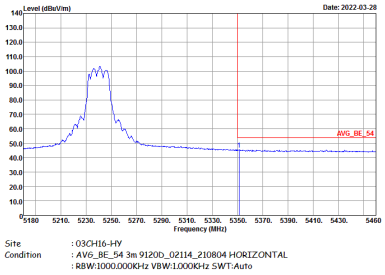
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

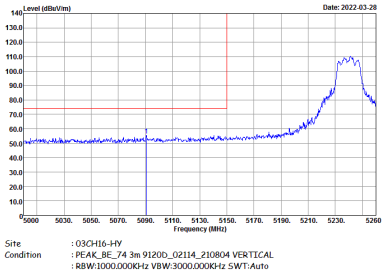
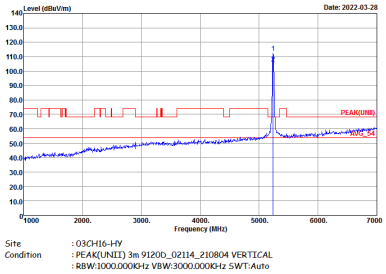
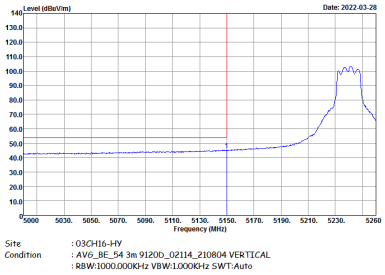
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

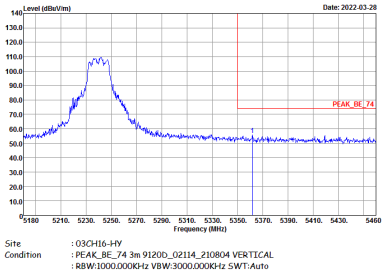
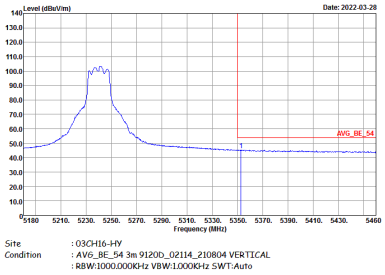
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

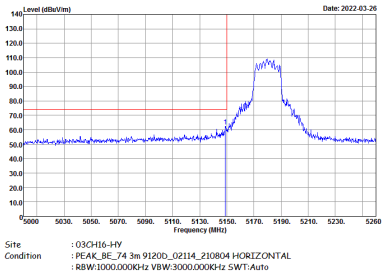
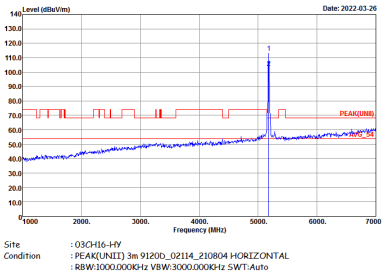
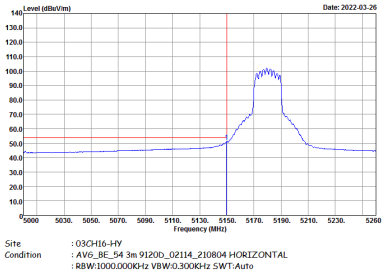
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

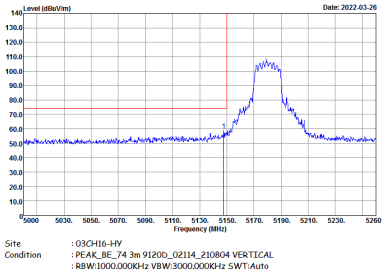
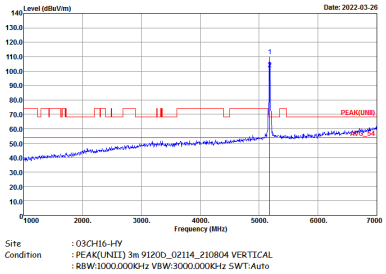
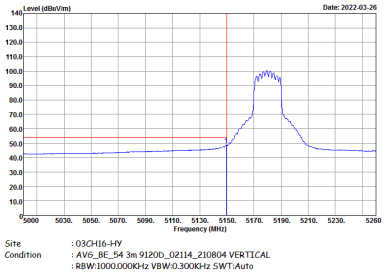
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

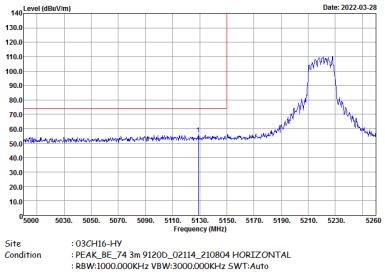
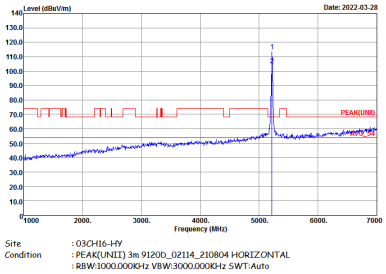
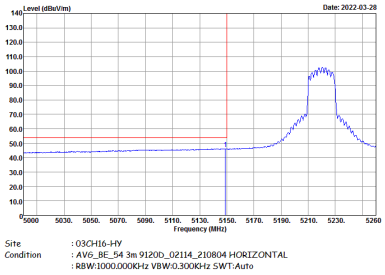
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

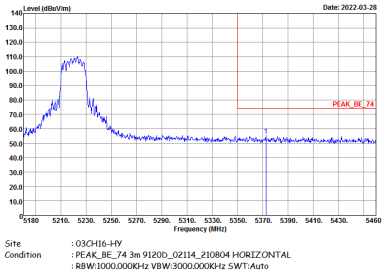
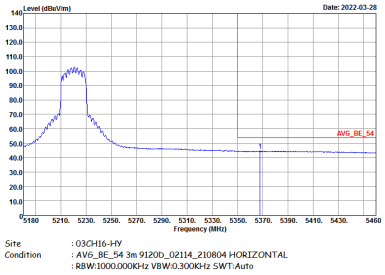
Band 1 5150~5250MHz

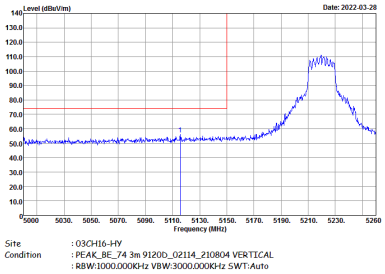
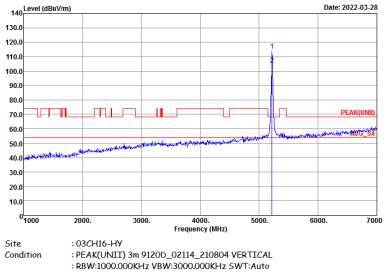
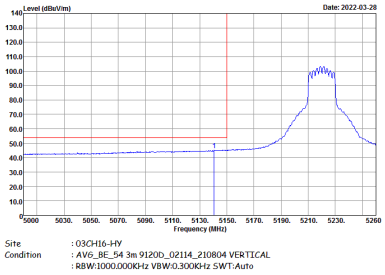
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

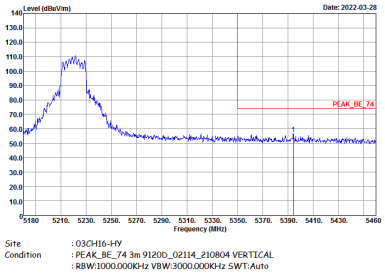
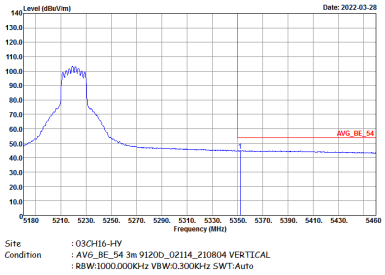
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

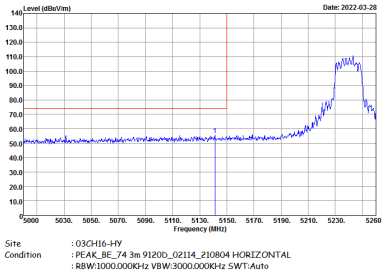
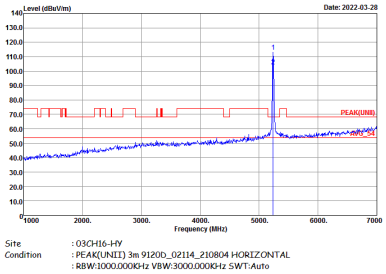
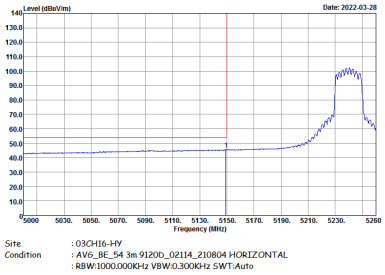
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

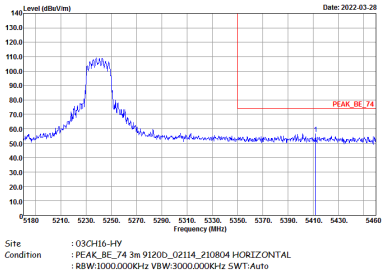
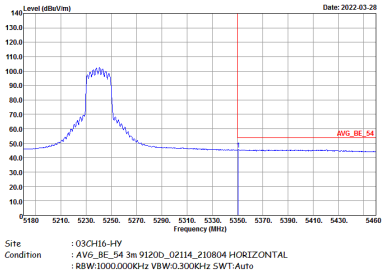
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

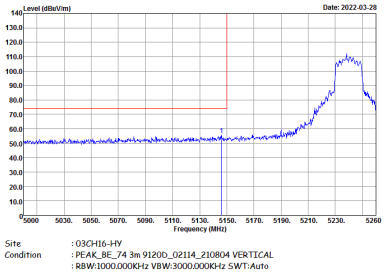
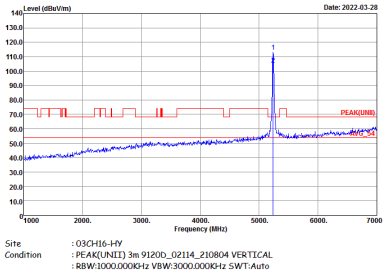
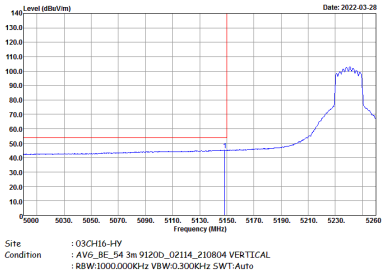
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

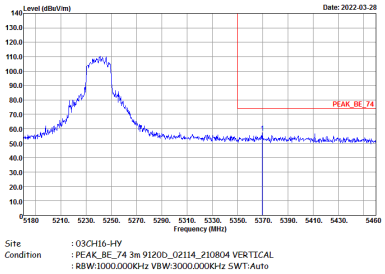
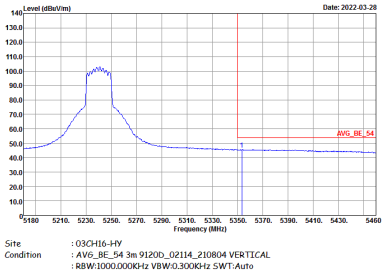
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

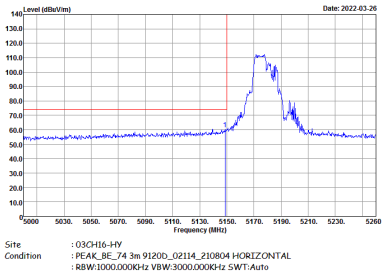
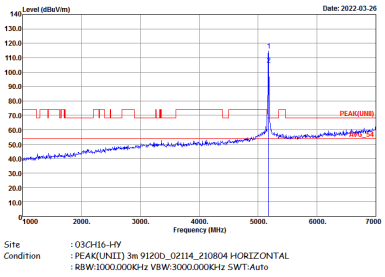
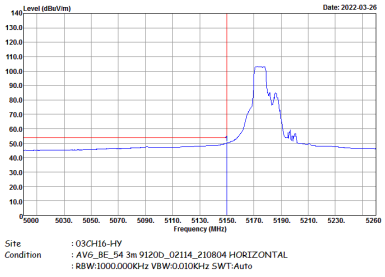
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

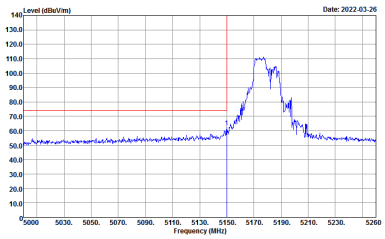
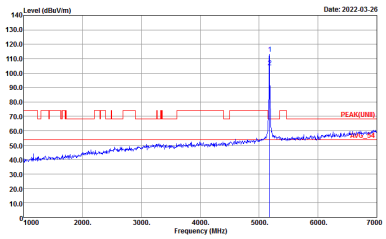
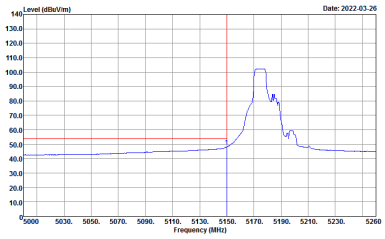
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz

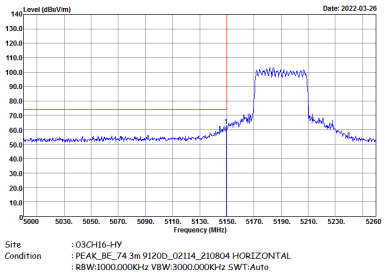
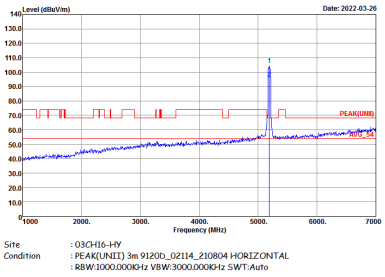
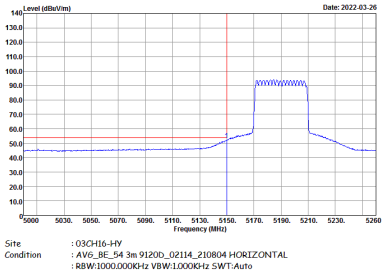
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

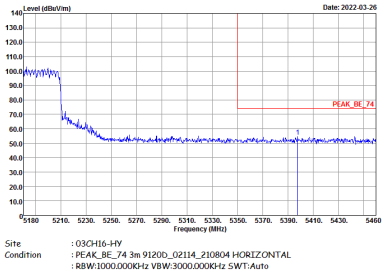
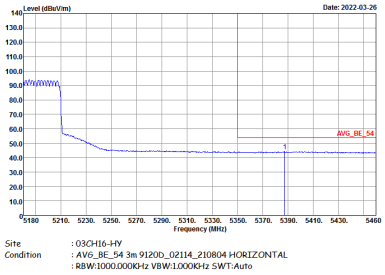
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

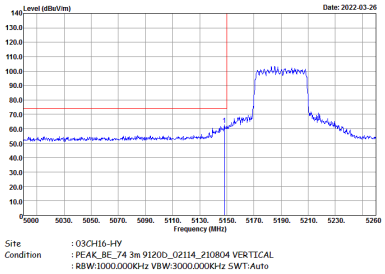
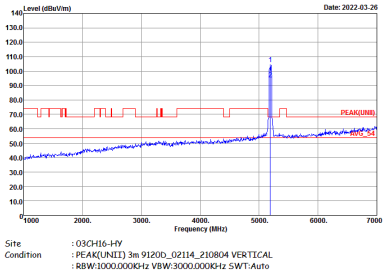
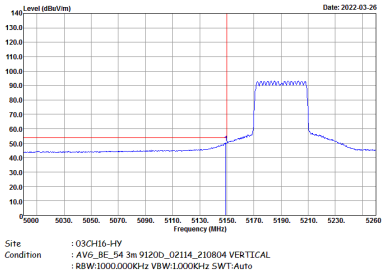
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
6+7	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_02114_210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_02114_210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_02114_210804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

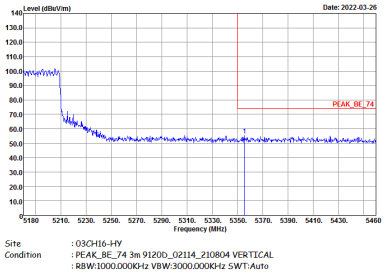
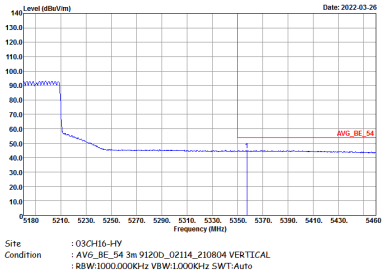
Band 1 5150~5250MHz

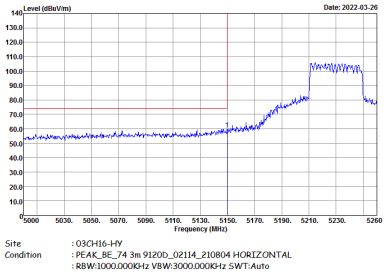
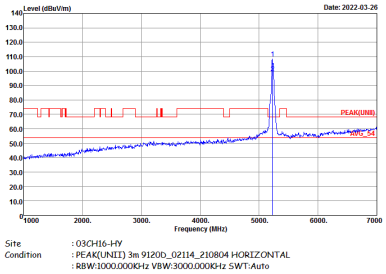
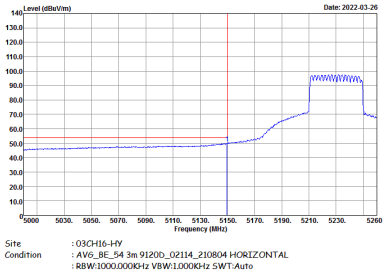
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

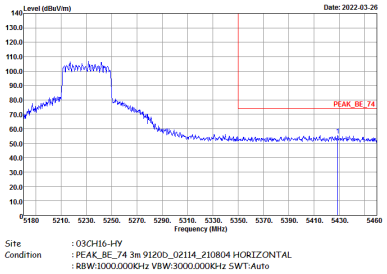
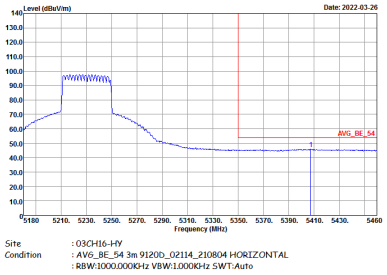
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

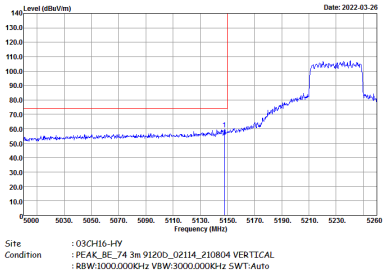
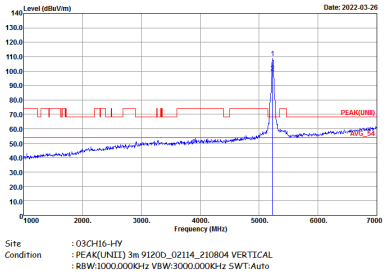
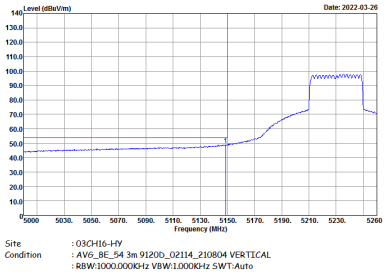
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

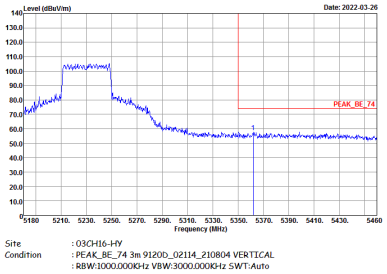
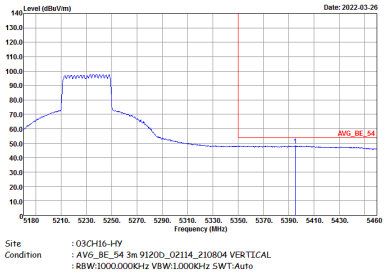
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

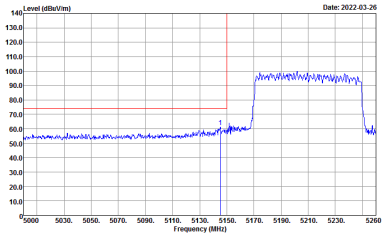
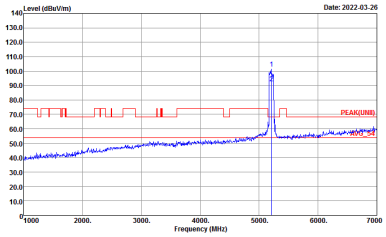
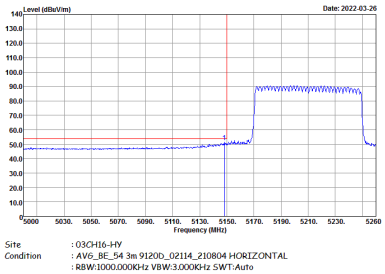
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

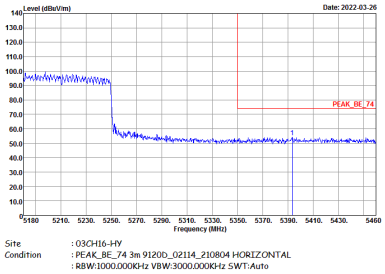
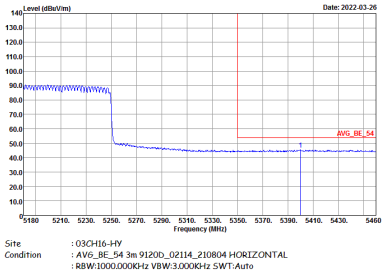
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

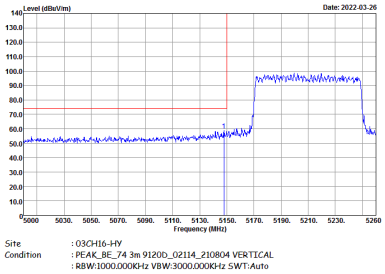
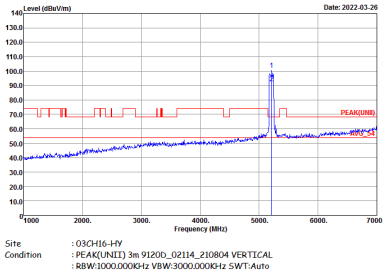
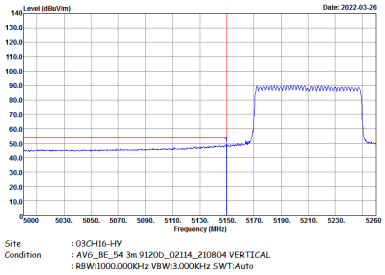
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

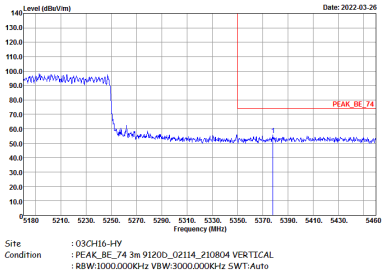
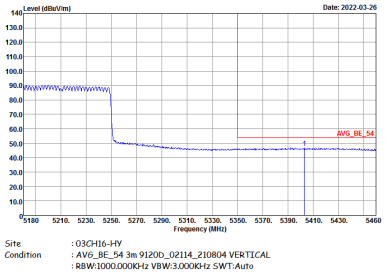
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

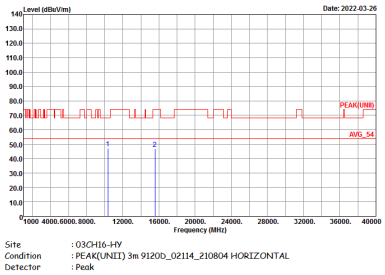
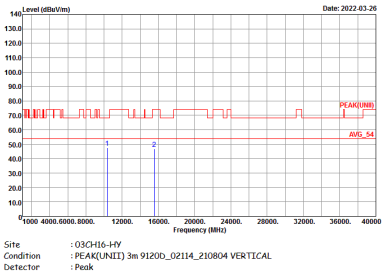
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

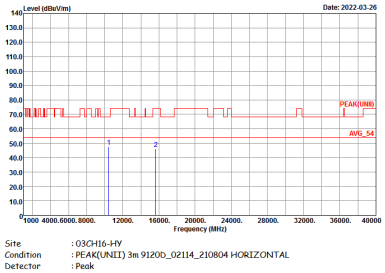
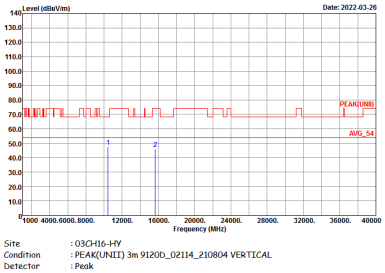
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

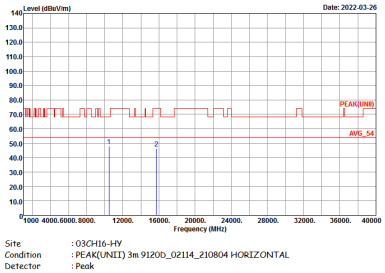
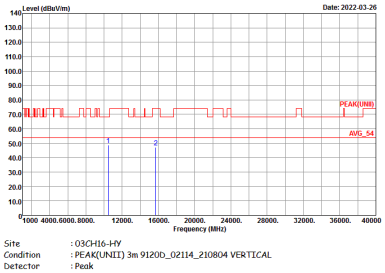
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

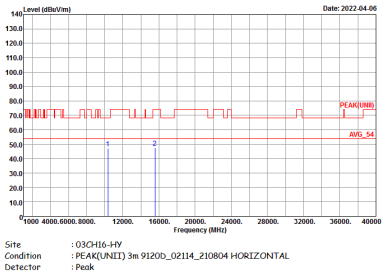
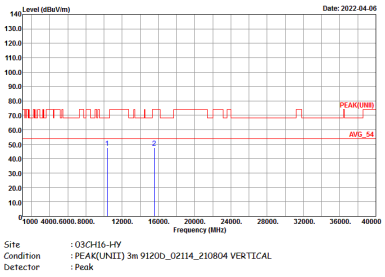
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Horizontal	Vertical
Peak Avg.		

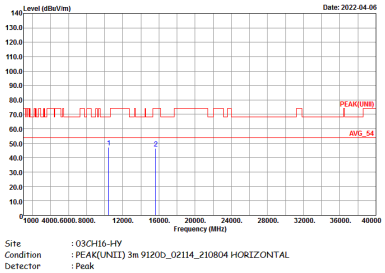
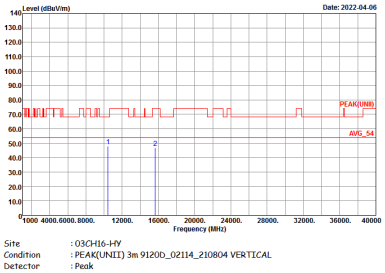
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
6+7	Horizontal	Vertical
Peak Avg.		

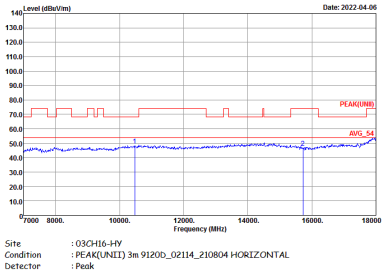
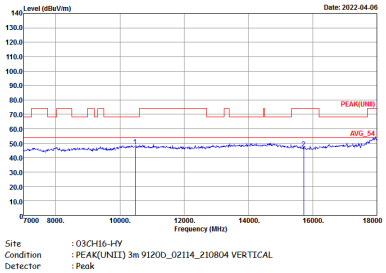
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
6+7	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

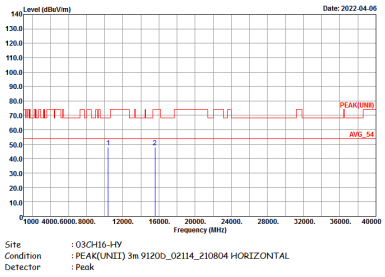
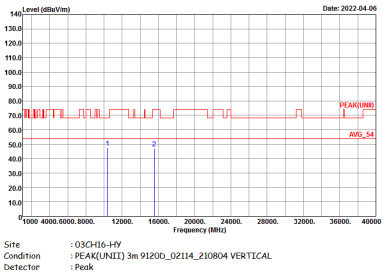
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Horizontal	Vertical
Peak Avg.		

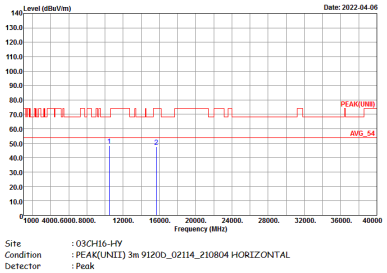
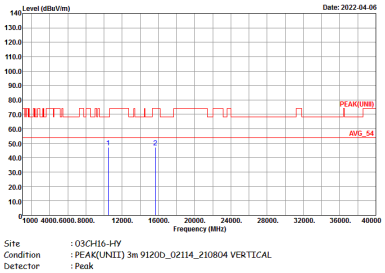
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
6+7	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
6+7	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

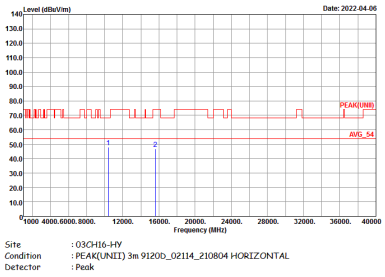
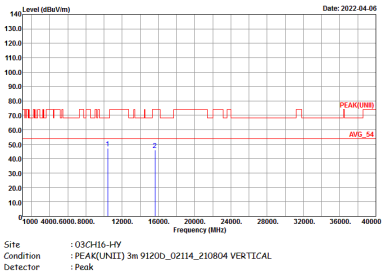
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
6+7	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
6+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_02114_210804 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_02114_210804 VERTICAL Detector : Peak

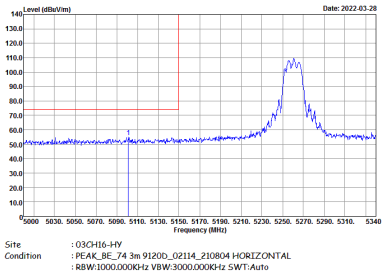
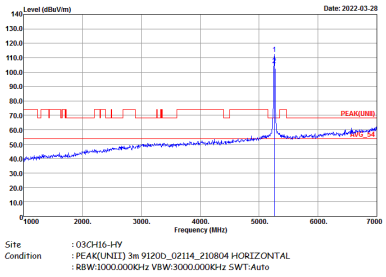
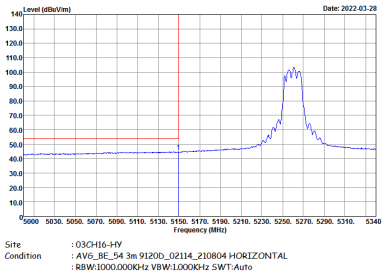
Band 1 5150~5250MHz

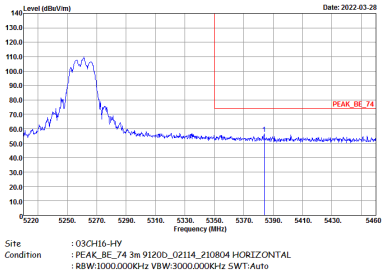
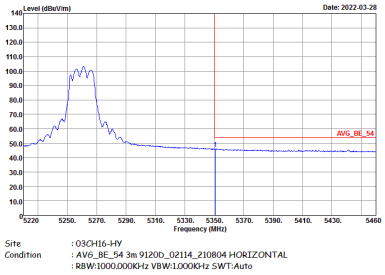
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

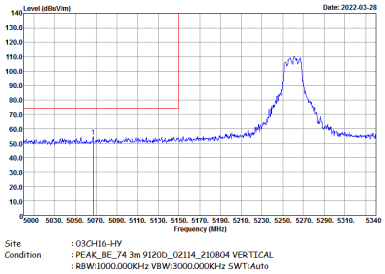
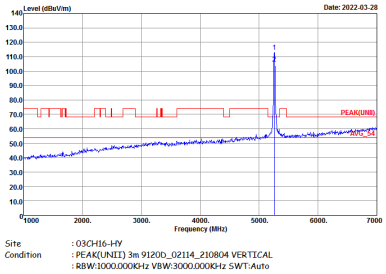
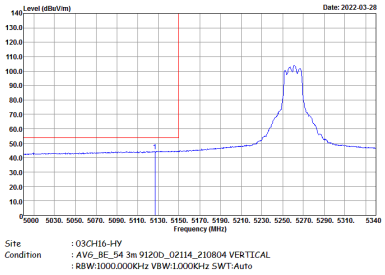
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
6+7	Horizontal	Vertical
Peak Avg.		

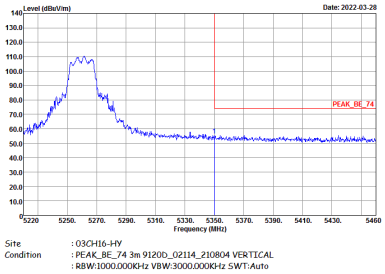
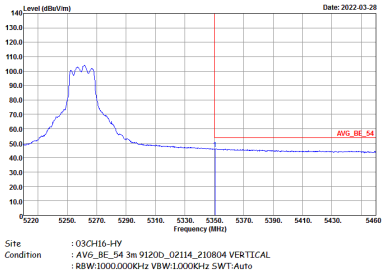
Band 2 - 5250~5350MHz

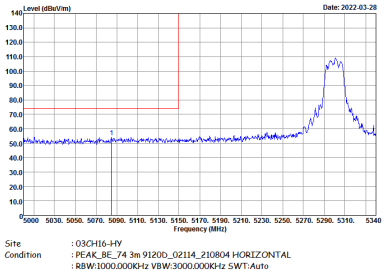
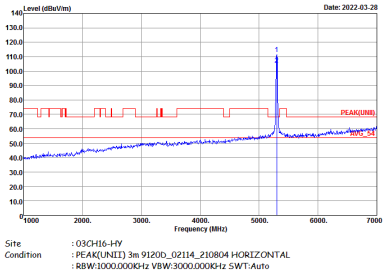
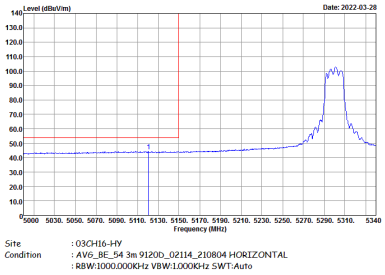
WIFI 802.11a (Band Edge @ 3m)

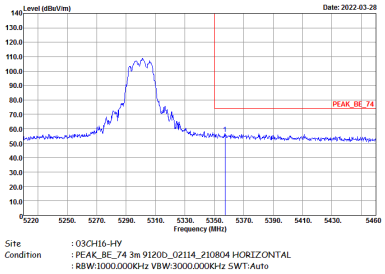
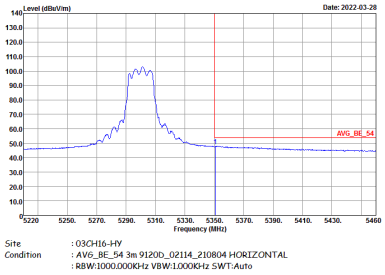
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

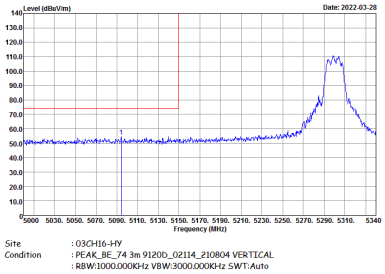
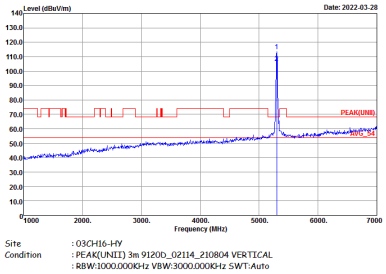
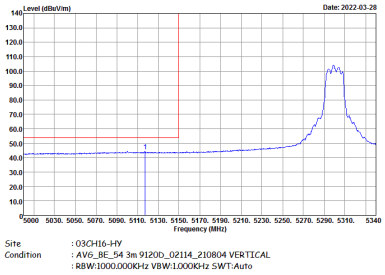
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

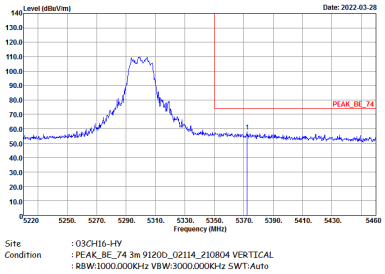
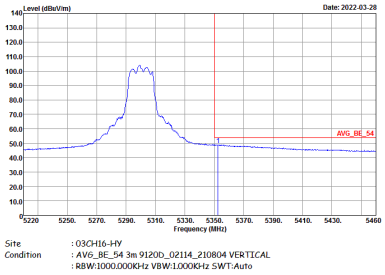
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

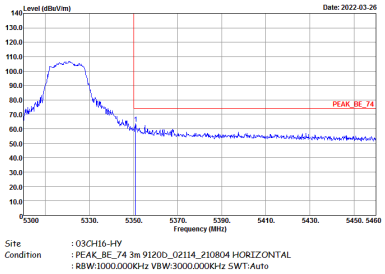
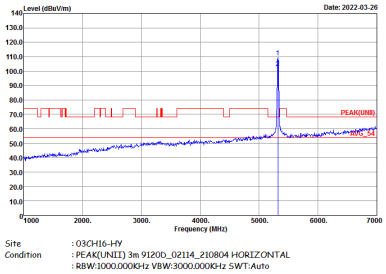
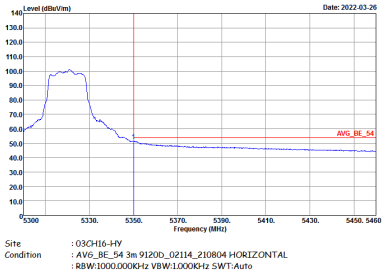
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

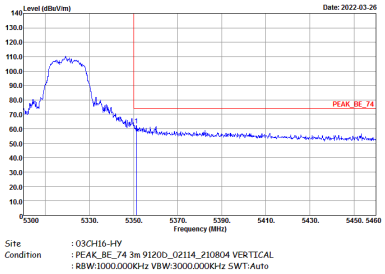
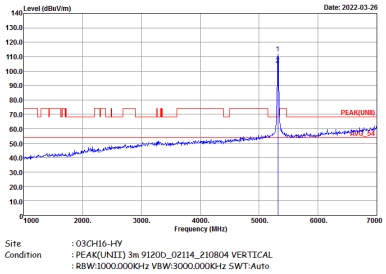
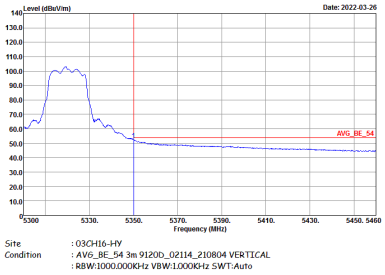
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

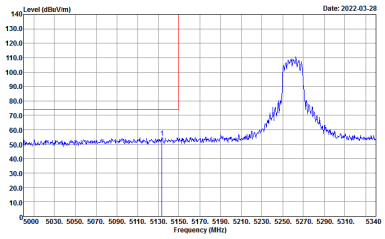
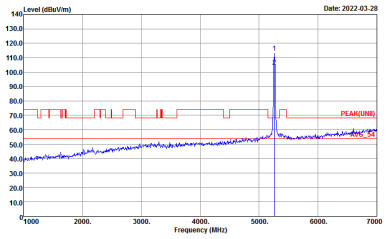
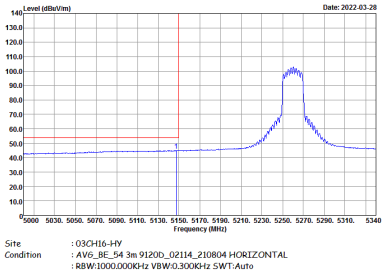
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

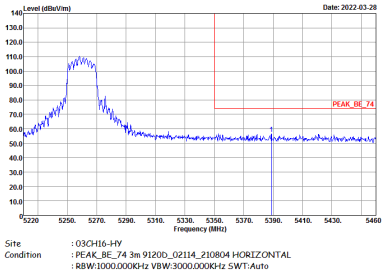
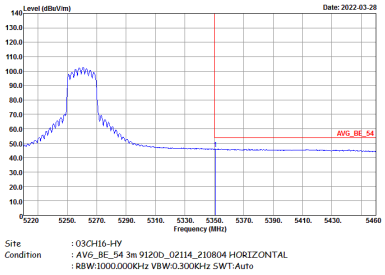
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

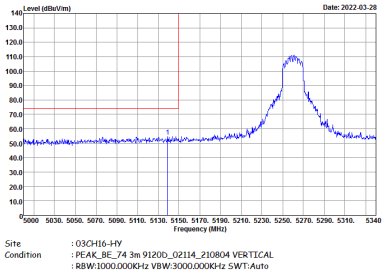
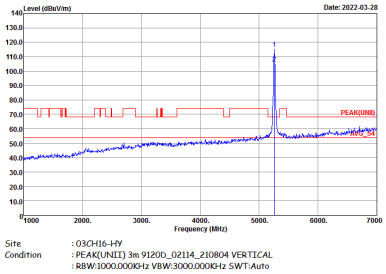
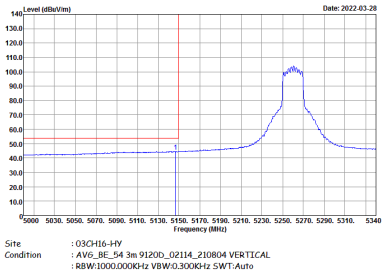
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 2 5250~5350MHz

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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank