



FCC RADIO TEST REPORT

FCC ID : J9C-QCNFA765
Equipment : Wi-Fi 6E BT 5.2 M.2 2230 Module
Brand Name : Qualcomm
Model Name : QCNFA765
Applicant : Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714
Manufacturer : Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714
Standard : FCC Part 15 Subpart E §15.407

The product was received on Oct. 13, 2021 and testing was performed from Oct. 22, 2021 to Nov. 26, 2021. 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 partial 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.

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
FR1O1349B	01	Initial issue of report	Nov. 30, 2021



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	0.54 dB under the limit at 5377.920 MHz
3.3	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: The test plan for power and radiated spurious emission measurement are designated by manufacturer as worst case for Test Lab. measurement. Then, all test cases are performed, based on the worst power measured by Test Lab, and reported accordingly.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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: Sheng Kuo

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax and Wi-Fi 5GHz 802.11a/n/ac/ax

Product Feature	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WLAN: <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna

The product was installed into Portable Computer (Brand Name: DELL, Model Name: P161G) during test, and the host information was recorded in the following table.

Host Information	
Host 1	Host with WNC Antenna
Host 2	Host with Hong-Bo Antenna

Antenna Information				
NB Mode	Antenna 1	Manufacturer	WNC	
		Antenna Type	PIFA Antenna	PIFA Antenna
		Part number	81EABJ15.G49	81EABJ15.G50
		Peak gain (dBi)	Main Antenna :	Aux. Antenna :
			WLAN(5GHz Band 1): 1.96 WLAN(5GHz Band 2): 2.06 WLAN(5GHz Band 3): 2.59	WLAN(5GHz Band 1): 2.54 WLAN(5GHz Band 2): 1.72 WLAN(5GHz Band 3): 1.24
	Antenna 2	Manufacturer	Hong-Bo	
		Antenna Type	PIFA Antenna	PIFA Antenna
		Part number	260-29100	260-29101
		Peak gain (dBi)	Main Antenna :	Aux. Antenna :
			WLAN(5GHz Band 1): 1.96 WLAN(5GHz Band 2): 2.06 WLAN(5GHz Band 3): 2.59	WLAN(5GHz Band 1): 2.54 WLAN(5GHz Band 2): 1.72 WLAN(5GHz Band 3): 1.24
TB Mode	Antenna 1	Manufacturer	WNC	
		Antenna Type	PIFA Antenna	PIFA Antenna
		Part number	81EABJ15.G49	81EABJ15.G50
		Peak gain (dBi)	Main Antenna :	Aux. Antenna :
			WLAN(5GHz Band 1): -2.31 WLAN(5GHz Band 2): -1.57 WLAN(5GHz Band 3): 0.25	WLAN(5GHz Band 1): 0.73 WLAN(5GHz Band 2): 1.08 WLAN(5GHz Band 3): 0.77
	Antenna 2	Manufacturer	Hong-Bo	
		Antenna Type	PIFA Antenna	PIFA Antenna
		Part number	260-29100	260-29101
		Peak gain (dBi)	Main Antenna :	Aux. Antenna :
			WLAN(5GHz Band 1): -2.31 WLAN(5GHz Band 2): -1.57 WLAN(5GHz Band 3): 0.25	WLAN(5GHz Band 1): 0.73 WLAN(5GHz Band 2): 1.08 WLAN(5GHz Band 3): 0.77

Remark:

- The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.
- All the tests were performed with "WNC Antenna".

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 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, 03CH11-HY

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

FCC designation No.: TW3786

1.4 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.
- ♦ 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.

2 Test Configuration of Equipment Under Test

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: radiation emission (1 GHz 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 Notebook Type, and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane as worst plane.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel		Freq. (MHz)	
5150-5350 MHz	50 [@]		5250	
5470-5725 MHz	114 [@]		5570	



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

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

Note:

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

2.2 Test Mode

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

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

<Chain 0>

Ch. #		Band I : 5150-5250 MHz	
		802.11a	802.11ax HE20
L	Low	36	36
M	Middle	-	-
H	High	-	-

Ch. #		Band I : 5150-5250 MHz	
		802.11ax HE40	802.11ax HE80
L	Low	38	-
M	Middle	-	42
H	High	-	-

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

<Chain 1>

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a
L	Low	-	100
M	Middle	-	-
H	High	64	140

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20
L	Low	-	100
M	Middle	-	-
H	High	64	140

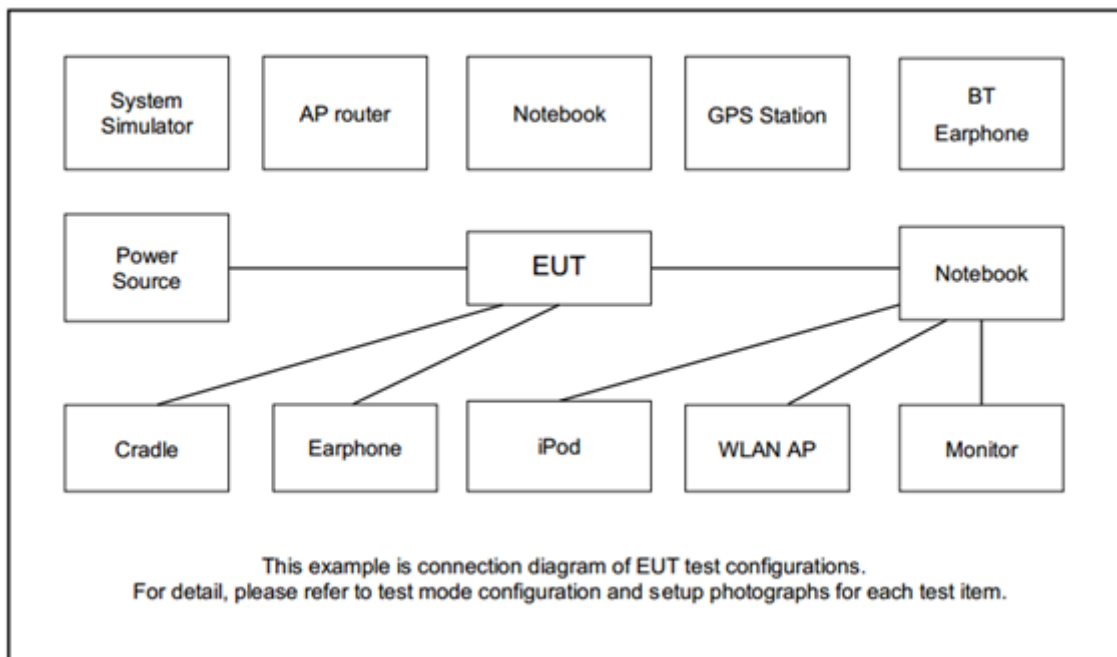
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40
L	Low	-	102
M	Middle	-	-
H	High	62	134

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

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT V4.0.00194.0" was installed in Host 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.



3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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 $11 \text{ dBm} + 10 \log B$, 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.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

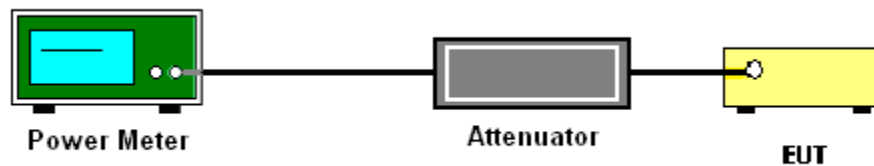
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 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.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/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.

3.2.2 Measuring Instruments

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

3.2.3 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 Peak Unwanted Emissions Measurements Above 1000 MHz

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

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

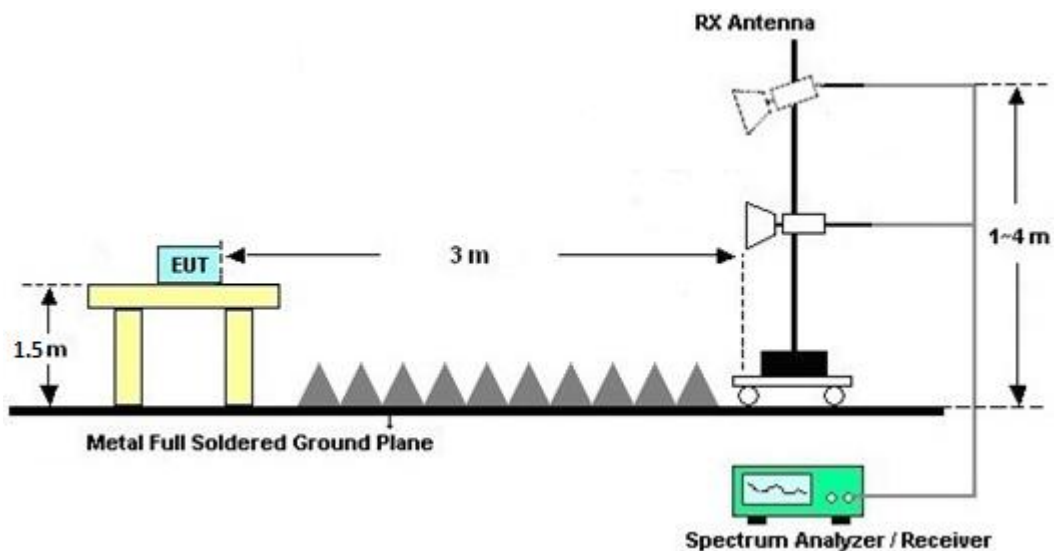
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT is placed on a turntable with 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 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 “-”.

3.2.4 Test Setup

For radiated test above 1GHz



3.2.5 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.2.6 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-02114	1GHz ~ 18GHz	Aug. 04, 2021	Nov. 18, 2021~ Nov. 26, 2021	Aug. 03, 2022	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA9170	00993	18GHz~40GHz	Nov. 27, 2020	Nov. 18, 2021~ Nov. 26, 2021	Nov. 26, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2021	Nov. 18, 2021~ Nov. 26, 2021	Nov. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55007	1GHz~18GHz	Jun. 16, 2021	Nov. 18, 2021~ Nov. 26, 2021	Jun. 15, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Nov. 18, 2021~ Nov. 26, 2021	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Nov. 18, 2021~ Nov. 26, 2021	Oct. 14, 2022	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Nov. 18, 2021~ Nov. 26, 2021	Jul. 14, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 18, 2021~ Nov. 26, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 18, 2021~ Nov. 26, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 18, 2021~ Nov. 26, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Nov. 18, 2021~ Nov. 26, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Nov. 18, 2021~ Nov. 26, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Nov. 18, 2021~ Nov. 26, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11681/4PE	30MHz-18GHz	Mar. 11, 2021	Nov. 18, 2021~ Nov. 26, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-153 0-8000-40SS	SN11	1.53G Low Pass	Sep. 13, 2021	Nov. 18, 2021~ Nov. 26, 2021	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHW2-7100-10 000-18000-40C C	SN2	10GHz High Pass Filter	May 25, 2021	Nov. 18, 2021~ Nov. 26, 2021	May 24, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5- 6750-18000-40S S	SN3	6.75GHz High Pass Filter	Sep. 13, 2021	Nov. 18, 2021~ Nov. 26, 2021	Sep. 12, 2022	Radiation (03CH11-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Oct. 22, 2021~ Nov. 09, 2021	Feb. 28, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12	10MHz~6GHz	Dec. 16, 2020	Oct. 22, 2021~ Nov. 09, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Aug. 01, 2021	Oct. 22, 2021~ Nov. 09, 2021	Jul. 31, 2022	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 01, 2021	Oct. 22, 2021~ Nov. 09, 2021	Jul. 31, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Nov. 13, 2020	Oct. 22, 2021~ Nov. 09, 2021	Nov. 12, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Oct. 22, 2021~ Nov. 09, 2021	Mar. 16, 2022	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.9 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2021/10/22~2021/11/9	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	12.20	12.40		24.00	24.00	2.54	2.06		Pass
11a	6Mbps	1	44	5220	12.30	12.30		24.00	24.00	2.54	2.06		Pass
11a	6Mbps	1	48	5240	12.20	12.30		24.00	24.00	2.54	2.06		Pass
HT20	MCS0	1	36	5180	12.00	12.20		24.00	24.00	2.54	2.06		Pass
HT20	MCS0	1	44	5220	12.00	12.10		24.00	24.00	2.54	2.06		Pass
HT20	MCS0	1	48	5240	12.30	12.00		24.00	24.00	2.54	2.06		Pass
HT40	MCS0	1	38	5190	12.40	12.00		24.00	24.00	2.54	2.06		Pass
HT40	MCS0	1	46	5230	12.40	12.10		24.00	24.00	2.54	2.06		Pass
VHT20	MCS0	1	36	5180	12.00	12.20		24.00	24.00	2.54	2.06		Pass
VHT20	MCS0	1	44	5220	12.00	12.10		24.00	24.00	2.54	2.06		Pass
VHT20	MCS0	1	48	5240	12.30	12.00		24.00	24.00	2.54	2.06		Pass
VHT40	MCS0	1	38	5190	12.40	12.00		24.00	24.00	2.54	2.06		Pass
VHT40	MCS0	1	46	5230	12.40	12.10		24.00	24.00	2.54	2.06		Pass
VHT80	MCS0	1	42	5210	11.70	11.60		24.00	24.00	2.54	2.06		Pass
VHT160	MCS0	1	50	5250	11.50	11.90		24.00	24.00	2.54	2.06		Pass

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	12.40	12.10		23.98	23.98	1.72	2.59	30	Pass
11a	6Mbps	1	60	5300	12.20	12.40		23.98	23.98	1.72	2.59	30	Pass
11a	6Mbps	1	64	5320	12.20	12.20		23.98	23.98	1.72	2.59	30	Pass
HT20	MCS0	1	52	5260	12.20	12.30		23.98	23.98	1.72	2.59	30	Pass
HT20	MCS0	1	60	5300	12.40	12.10		23.98	23.98	1.72	2.59	30	Pass
HT20	MCS0	1	64	5320	12.40	12.30		23.98	23.98	1.72	2.59	30	Pass
HT40	MCS0	1	54	5270	12.10	12.20		23.98	23.98	1.72	2.59	30	Pass
HT40	MCS0	1	62	5310	12.20	12.30		23.98	23.98	1.72	2.59	30	Pass
VHT20	MCS0	1	52	5260	12.20	12.30		23.98	23.98	1.72	2.59	30	Pass
VHT20	MCS0	1	60	5300	12.40	12.10		23.98	23.98	1.72	2.59	30	Pass
VHT20	MCS0	1	64	5320	12.40	12.30		23.98	23.98	1.72	2.59	30	Pass
VHT40	MCS0	1	54	5270	12.10	12.20		23.98	23.98	1.72	2.59	30	Pass
VHT40	MCS0	1	62	5310	12.20	12.30		23.98	23.98	1.72	2.59	30	Pass
VHT80	MCS0	1	58	5290	12.40	12.00		23.98	23.98	1.72	2.59	30	Pass

TEST RESULTS DATA**Average Power Table**

FCC Band III single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	12.30	12.40		23.98	23.98	1.24	2.59	30	Pass
11a	6Mbps	1	116	5580	12.20	12.20		23.98	23.98	1.24	2.59	30	Pass
11a	6Mbps	1	140	5700	12.10	12.50		23.98	23.98	1.24	2.59	30	Pass
HT20	MCS0	1	100	5500	12.00	12.10		23.98	23.98	1.24	2.59	30	Pass
HT20	MCS0	1	116	5580	12.00	12.00		23.98	23.98	1.24	2.59	30	Pass
HT20	MCS0	1	140	5700	12.40	12.30		23.98	23.98	1.24	2.59	30	Pass
HT40	MCS0	1	102	5510	12.40	12.00		23.98	23.98	1.24	2.59	30	Pass
HT40	MCS0	1	110	5550	12.40	12.20		23.98	23.98	1.24	2.59	30	Pass
HT40	MCS0	1	134	5670	12.30	12.10		23.98	23.98	1.24	2.59	30	Pass
VHT20	MCS0	1	100	5500	12.00	12.10		23.98	23.98	1.24	2.59	30	Pass
VHT20	MCS0	1	116	5580	12.00	12.00		23.98	23.98	1.24	2.59	30	Pass
VHT20	MCS0	1	140	5700	12.40	12.30		23.98	23.98	1.24	2.59	30	Pass
VHT40	MCS0	1	102	5510	12.40	12.00		23.98	23.98	1.24	2.59	30	Pass
VHT40	MCS0	1	110	5550	12.40	12.20		23.98	23.98	1.24	2.59	30	Pass
VHT40	MCS0	1	134	5670	12.30	12.10		23.98	23.98	1.24	2.59	30	Pass
VHT80	MCS0	1	106	5530	12.10	12.10		23.98	23.98	1.24	2.59	30	Pass
VHT80	MCS0	1	122	5610	12.20	12.20		23.98	23.98	1.24	2.59	30	Pass
VHT160	MCS0	1	114	5570	12.40	12.30		23.98	23.98	1.24	2.59	30	Pass

FCC Band III straddle channel single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	12.40	12.50		23.98	23.98	1.24	2.59	30	Pass
HT20	MCS0	1	144	5720	12.10	12.20		23.98	23.98	1.24	2.59	30	Pass
HT40	MCS0	1	142	5710	12.40	12.40		23.98	23.98	1.24	2.59	30	Pass
VHT20	MCS0	1	144	5720	12.10	12.20		23.98	23.98	1.24	2.59	30	Pass
VHT40	MCS0	1	142	5710	12.40	12.40		23.98	23.98	1.24	2.59	30	Pass
VHT80	MCS0	1	138	5690	12.00	12.20		23.98	23.98	1.24	2.59	30	Pass

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	36	5180	Full	12.10	12.30		24.00	24.00	2.54	2.06	Pass
HE20	MCS0	1	36	5180	242/61	12.10	12.10		24.00	24.00	2.54	2.06	Pass
HE20	MCS0	1	44	5220	Full	12.10	12.20		24.00	24.00	2.54	2.06	Pass
HE20	MCS0	1	48	5240	Full	12.40	12.10		24.00	24.00	2.54	2.06	Pass
HE40	MCS0	1	38	5190	Full	12.50	12.10		24.00	24.00	2.54	2.06	Pass
HE40	MCS0	1	38	5190	484/65	9.60	9.70		24.00	24.00	2.54	2.06	Pass
HE40	MCS0	1	46	5230	Full	12.50	12.20		24.00	24.00	2.54	2.06	Pass
HE80	MCS0	1	42	5210	Full	11.80	11.70		24.00	24.00	2.54	2.06	Pass
HE80	MCS0	1	42	5210	996/67	8.20	8.20		24.00	24.00	2.54	2.06	Pass
HE160	MCS0	1	50	5250	Full	11.60	12.00		24.00	24.00	2.54	2.06	Pass
HE160	MCS0	1	50	5250	1992/68	10.90	11.10		24.00	24.00	2.54	2.06	Pass

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna														
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	52	5260	Full	12.30	12.40		23.98	23.98	1.72	2.59	30	Pass
HE20	MCS0	1	60	5300	Full	12.50	12.20		23.98	23.98	1.72	2.59	30	Pass
HE20	MCS0	1	64	5320	Full	12.50	12.40		23.98	23.98	1.72	2.59	30	Pass
HE20	MCS0	1	64	5320	242/61	12.50	12.40		23.98	23.98	1.72	2.59	30	Pass
HE40	MCS0	1	54	5270	Full	12.20	12.30		23.98	23.98	1.72	2.59	30	Pass
HE40	MCS0	1	62	5310	Full	12.30	12.40		23.98	23.98	1.72	2.59	30	Pass
HE40	MCS0	1	62	5310	484/65	11.20	11.40		23.98	23.98	1.72	2.59	30	Pass
HE80	MCS0	1	58	5290	Full	12.50	12.10		23.98	23.98	1.72	2.59	30	Pass
HE80	MCS0	1	58	5290	996/67	10.40	10.10		23.98	23.98	1.72	2.59	30	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna														
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	100	5500	Full	12.10	12.20		23.98	23.98	1.24	2.59	30	Pass
HE20	MCS0	1	100	5500	242/61	10.80	10.90		23.98	23.98	1.24	2.59	30	Pass
HE20	MCS0	1	116	5580	Full	12.10	12.10		23.98	23.98	1.24	2.59	30	Pass
HE20	MCS0	1	140	5700	Full	12.50	12.40		23.98	23.98	1.24	2.59	30	Pass
HE20	MCS0	1	140	5700	242/61	9.90	9.80		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	102	5510	Full	12.50	12.10		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	102	5510	484/65	9.60	9.60		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	110	5550	Full	12.50	12.30		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	134	5670	Full	12.40	12.20		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	134	5670	484/65	10.90	11.00		23.98	23.98	1.24	2.59	30	Pass
HE80	MCS0	1	106	5530	Full	12.20	12.20		23.98	23.98	1.24	2.59	30	Pass
HE80	MCS0	1	106	5530	996/67	9.40	9.40		23.98	23.98	1.24	2.59	30	Pass
HE80	MCS0	1	122	5610	Full	12.30	12.30		23.98	23.98	1.24	2.59	30	Pass
HE80	MCS0	1	122	5610	996/67	10.70	10.70		23.98	23.98	1.24	2.59	30	Pass
HE160	MCS0	1	114	5570	Full	12.50	12.40		23.98	23.98	1.24	2.59	30	Pass
HE160	MCS0	1	114	5570	1992/68	12.50	12.40		23.98	23.98	1.24	2.59	30	Pass

FCC Band III straddle channel single antenna														
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	144	5720	Full	12.20	12.30		23.98	23.98	1.24	2.59	30	Pass
HE40	MCS0	1	142	5710	Full	12.50	12.50		23.98	23.98	1.24	2.59	30	Pass
HE80	MCS0	1	138	5690	Full	12.10	12.30		23.98	23.98	1.24	2.59	30	Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Garvey Guo and Troye Hseih	Temperature :	20.1 ~ 21.8°C
		Relative Humidity :	53.2 ~ 66.1%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.46	50.7	-23.3	74	40.85	32.91	10.37	33.43	100	123	P	V
		5150	41.54	-12.46	54	31.7	32.9	10.37	33.43	100	123	A	V
	*	5180	98.16	-	-	88.22	32.96	10.41	33.43	100	123	P	V
	*	5180	91.05	-	-	81.11	32.96	10.41	33.43	100	123	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 HE20 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 36 5180MHz		5022.62	50.76	-23.24	74	41.02	32.96	10.2	33.42	100	125	P	V
		5150	41.92	-12.08	54	32.08	32.9	10.37	33.43	100	125	A	V
	*	5180	99.75	-	-	89.81	32.96	10.41	33.43	100	125	P	V
	*	5180	89.79	-	-	79.85	32.96	10.41	33.43	100	125	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 HE20 Partial 242 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5147.16	56.84	-17.16	74	46.98	32.92	10.37	33.43	100	343	P	V
HE20		5150	43.21	-10.79	54	33.37	32.9	10.37	33.43	100	343	A	V
Partial	*	5180	98.52	-	-	88.58	32.96	10.41	33.43	100	343	P	V
242/61	*	5180	87.46	-	-	77.52	32.96	10.41	33.43	100	343	A	V
CH 36													V
5180MHz													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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5145.86	53.88	-20.12	74	44.02	32.92	10.37	33.43	100	124	P	V
HE40 Full		5148.46	43.02	-10.98	54	33.17	32.91	10.37	33.43	100	124	A	V
CH 38	*	5190	97.53	-	-	87.56	32.98	10.43	33.44	100	124	P	V
5190MHz	*	5190	88.81	-	-	78.84	32.98	10.43	33.44	100	124	A	V
		5458.6	49.09	-24.91	74	39.01	32.88	10.66	33.46	100	124	P	V
		5456.64	39.89	-14.11	54	29.8	32.89	10.66	33.46	100	124	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 42 5210MHz		5126.88	56.46	-17.54	74	46.51	33.04	10.34	33.43	100	124	P	V
		5129.22	46.25	-7.75	54	36.32	33.02	10.34	33.43	100	124	A	V
	*	5210	95.48	-	-	85.49	32.98	10.45	33.44	100	124	P	V
	*	5210	86.01	-	-	76.02	32.98	10.45	33.44	100	124	A	V
		5411.76	49.49	-24.51	74	39.39	32.9	10.65	33.45	100	124	P	V
		5458.8	39.99	-14.01	54	29.91	32.88	10.66	33.46	100	124	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 Partial 484 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 484/65 CH 38 5190MHz		5140.14	50.46	-23.54	74	40.57	32.96	10.36	33.43	100	344	P	V
		5145.6	41.88	-12.12	54	32.01	32.93	10.37	33.43	100	344	A	V
	*	5190	92.1	-	-	82.13	32.98	10.43	33.44	100	344	P	V
	*	5190	82.52	-	-	72.55	32.98	10.43	33.44	100	344	A	V
		5387.48	49.41	-24.59	74	39.35	32.87	10.64	33.45	100	344	P	V
		5457.2	39.88	-14.12	54	29.79	32.89	10.66	33.46	100	344	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 50 5250MHz		5129.2	53.39	-20.61	74	43.46	33.02	10.34	33.43	100	119	P	V
		5116.28	43.78	-10.22	54	33.78	33.1	10.33	33.43	100	119	A	V
	*	5250	97.07	-	-	87.12	32.9	10.49	33.44	100	119	P	V
	*	5250	86.14	-	-	76.19	32.9	10.49	33.44	100	119	A	V
		5378.4	59.96	-14.04	74	49.92	32.86	10.63	33.45	100	119	P	V
		5372.64	49.99	-4.01	54	39.97	32.85	10.62	33.45	100	119	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 Partial 996 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 996/67 CH 42 5210MHz		5139.88	53	-21	74	43.11	32.96	10.36	33.43	115	343	P	V
		5127.66	44.06	-9.94	54	34.12	33.03	10.34	33.43	115	343	A	V
	*	5210	89.49	-	-	79.5	32.98	10.45	33.44	115	343	P	V
	*	5210	79.37	-	-	69.38	32.98	10.45	33.44	115	343	A	V
		5403.32	49.08	-24.92	74	38.98	32.9	10.65	33.45	115	343	P	V
		5456.1	39.9	-14.1	54	29.81	32.89	10.66	33.46	115	343	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 1992/68 CH 50 5250MHz		5125.8	54.71	-19.29	74	44.75	33.05	10.34	33.43	400	187	P	H
		5100.3	41.97	-12.03	54	31.89	33.2	10.31	33.43	400	187	A	H
	*	5250	81.5	-	-	71.55	32.9	10.49	33.44	400	187	P	H
	*	5250	73.12	-	-	63.17	32.9	10.49	33.44	400	187	A	H
		5375.52	60.07	-13.93	74	50.05	32.85	10.62	33.45	400	187	P	H
		5395.2	47.06	-6.94	54	36.98	32.89	10.64	33.45	400	187	A	H
		5136.68	59.09	-14.91	74	49.19	32.98	10.35	33.43	100	119	P	V
		5116.28	45.89	-8.11	54	35.89	33.1	10.33	33.43	100	119	A	V
	*	5250	95.78	-	-	85.83	32.9	10.49	33.44	100	119	P	V
	*	5250	84.51	-	-	74.56	32.9	10.49	33.44	100	119	A	V
		5399.28	72.29	-1.71	74	62.19	32.9	10.65	33.45	100	119	P	V
		5377.92	53.46	-0.54	54	43.42	32.86	10.63	33.45	100	119	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	97.4	-	-	87.36	32.92	10.57	33.45	100	165	P	V
	*	5320	90.12	-	-	80.08	32.92	10.57	33.45	100	165	A	V
		5417.28	50.12	-23.88	74	40.02	32.9	10.65	33.45	100	165	P	V
		5459.52	39.91	-14.09	54	29.83	32.88	10.66	33.46	100	165	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 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 64 5320MHz	*	5320	92.6	-	-	82.56	32.92	10.57	33.45	100	347	P	V
	*	5320	81.9	-	-	71.86	32.92	10.57	33.45	100	347	A	V
		5358.08	49.29	-24.71	74	39.31	32.82	10.61	33.45	100	347	P	V
		5458.24	39.93	-14.07	54	29.85	32.88	10.66	33.46	100	347	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 62 5310MHz		5040.8	50.83	-23.17	74	41.16	32.86	10.23	33.42	100	166	P	V
		5102	41.1	-12.9	54	31.03	33.19	10.31	33.43	100	166	A	V
	*	5310	96.59	-	-	86.51	32.96	10.56	33.44	100	166	P	V
	*	5310	86.69	-	-	76.61	32.96	10.56	33.44	100	166	A	V
		5458.8	49.1	-24.9	74	39.02	32.88	10.66	33.46	100	166	P	V
		5350.08	40.48	-13.52	54	30.53	32.8	10.6	33.45	100	166	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 HE20 Partial 242 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 242/61 CH 64 5320MHz	*	5320	92.19	-	-	82.15	32.92	10.57	33.45	100	295	P	V
	*	5320	83.01	-	-	72.97	32.92	10.57	33.45	100	295	A	V
		5460	50.63	-23.37	74	40.55	32.88	10.66	33.46	100	295	P	V
		5456.96	39.97	-14.03	54	29.88	32.89	10.66	33.46	100	295	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 HE80 Full (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 58 5290MHz		5101.1	50.86	-23.14	74	40.79	33.19	10.31	33.43	100	165	P	V
		5099.9	40.73	-13.27	54	30.66	33.2	10.3	33.43	100	165	A	V
	*	5290	93.72	-	-	83.65	32.98	10.53	33.44	100	165	P	V
	*	5290	84.2	-	-	74.13	32.98	10.53	33.44	100	165	A	V
		5381.76	49.66	-24.34	74	39.62	32.86	10.63	33.45	100	165	P	V
		5374.32	40.63	-13.37	54	30.61	32.85	10.62	33.45	100	165	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 Partial 484 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 484/65 CH 62 5310MHz		5077.52	52.35	-21.65	74	42.49	33.02	10.27	33.43	104	256	P	V
		5101.66	41.28	-12.72	54	31.21	33.19	10.31	33.43	104	256	A	V
	*	5310	96.19	-	-	86.11	32.96	10.56	33.44	104	256	P	V
	*	5310	87.88	-	-	77.8	32.96	10.56	33.44	104	256	A	V
		5460	49.94	-24.06	74	39.86	32.88	10.66	33.46	104	256	P	V
		5350.32	40.68	-13.32	54	30.73	32.8	10.6	33.45	104	256	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 Partial 996 (Band Edge @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5010.2	51.67	-22.33	74	41.87	33.04	10.18	33.42	108	257	P	V
HE80		5099.3	41.2	-12.8	54	31.14	33.19	10.3	33.43	108	257	A	V
Partial	*	5290	96.58	-	-	86.51	32.98	10.53	33.44	108	257	P	V
996/67	*	5290	85.33	-	-	75.26	32.98	10.53	33.44	108	257	A	V
CH 58		5376.72	50.03	-23.97	74	40	32.85	10.63	33.45	108	257	P	V
5290MHz		5370.48	40.4	-13.6	54	30.39	32.84	10.62	33.45	108	257	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5422.64	49.46	-24.54	74	39.36	32.9	10.65	33.45	100	216	P	V
		5470	52.11	-16.09	68.2	42.05	32.86	10.66	33.46	100	216	P	V
		5459.6	40.33	-13.67	54	30.25	32.88	10.66	33.46	100	216	A	V
	*	5500	99.39	-	-	89.39	32.8	10.66	33.46	100	216	P	V
	*	5500	92.03	-	-	82.03	32.8	10.66	33.46	100	216	A	V
													V
802.11a CH 140 5700MHz	*	5700	94.86	-	-	84.27	33.3	10.8	33.51	100	148	P	V
	*	5700	87.58	-	-	76.99	33.3	10.8	33.51	100	148	A	V
		5730.92	50.94	-17.26	68.2	40.14	33.49	10.83	33.52	100	148	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 Full (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 100 5500MHz		5456.88	49.9	-24.1	74	39.81	32.89	10.66	33.46	100	244	P	V
		5470	52.42	-15.78	68.2	42.36	32.86	10.66	33.46	100	244	P	V
		5460	40.43	-13.57	54	30.35	32.88	10.66	33.46	100	244	A	V
	*	5500	102.19	-	-	92.19	32.8	10.66	33.46	100	244	P	V
	*	5500	92.4	-	-	82.4	32.8	10.66	33.46	100	244	A	V
													V
802.11ax HE20 Full CH 140 5700MHz	*	5700	100.87	-	-	90.28	33.3	10.8	33.51	100	288	P	V
	*	5700	90.7	-	-	80.11	33.3	10.8	33.51	100	288	A	V
		5732.76	51.88	-16.32	68.2	41.07	33.5	10.83	33.52	100	288	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 Partial 242 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5459.76	61.03	-12.97	74	50.95	32.88	10.66	33.46	106	295	P	V
HE20		5470	66.6	-1.6	68.2	56.54	32.86	10.66	33.46	106	295	P	V
Partial		5460	41.29	-12.71	54	31.21	32.88	10.66	33.46	100	295	A	V
242/61	*	5500	98.74	-	-	88.74	32.8	10.66	33.46	100	295	P	V
CH 100	*	5500	88.89	-	-	78.89	32.8	10.66	33.46	100	295	A	V
5500MHz													V
802.11ax	*	5700	95.82	-	-	85.23	33.3	10.8	33.51	100	295	P	V
HE20	*	5700	86.34	-	-	75.75	33.3	10.8	33.51	100	295	A	V
Partial		5760.52	51.04	-17.16	68.2	40.09	33.62	10.86	33.53	100	295	P	V
242/61													V
CH 140													V
5670MHz													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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 102 5510MHz		5449.84	50.7	-23.3	74	40.6	32.9	10.66	33.46	100	215	P	V
		5460.4	51.1	-17.1	68.2	41.02	32.88	10.66	33.46	100	215	P	V
		5459.92	41.29	-12.71	54	31.21	32.88	10.66	33.46	100	215	A	V
	*	5510	97.61	-	-	87.6	32.8	10.67	33.46	100	215	P	V
	*	5510	88.89	-	-	78.88	32.8	10.67	33.46	100	215	A	V
		5756.495	52	-16.2	68.2	41.06	33.61	10.86	33.53	100	215	P	V
802.11ax HE40 Full CH 134 5670MHz		5411.6	49.36	-24.64	74	39.26	32.9	10.65	33.45	100	285	P	V
		5465.5	48.18	-20.02	68.2	38.11	32.87	10.66	33.46	100	285	P	V
		5430.15	39.93	-14.07	54	29.83	32.9	10.65	33.45	100	285	A	V
	*	5670	98.39	-	-	87.83	33.3	10.76	33.5	100	284	P	V
	*	5670	88.18	-	-	77.62	33.3	10.76	33.5	100	284	A	V
		5760.905	51.37	-16.83	68.2	40.41	33.62	10.87	33.53	100	284	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 Partial 484 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5453.44	50.2	-23.8	74	40.11	32.89	10.66	33.46	100	283	P	V
HE40		5464.48	48.35	-19.85	68.2	38.28	32.87	10.66	33.46	100	283	P	V
Partial		5456.8	40.21	-13.79	54	30.12	32.89	10.66	33.46	100	283	A	V
484/65	*	5510	96.43	-	-	86.42	32.8	10.67	33.46	100	283	P	V
CH 102	*	5510	86.21	-	-	76.2	32.8	10.67	33.46	100	283	A	V
5530MHz		5760.59	50.7	-17.5	68.2	39.75	33.62	10.86	33.53	100	283	P	V
802.11ax		5448	49.48	-24.52	74	39.38	32.9	10.66	33.46	100	285	P	V
HE40		5460.25	48.26	-19.94	68.2	38.18	32.88	10.66	33.46	100	285	P	V
Partial		5455.7	40.13	-13.87	54	30.04	32.89	10.66	33.46	100	285	A	V
484/65	*	5670	94.6	-	-	84.04	33.3	10.76	33.5	100	285	P	V
CH 134	*	5670	85.43	-	-	74.87	33.3	10.76	33.5	100	285	A	V
5670MHz		5762.55	51.02	-17.18	68.2	40.05	33.63	10.87	33.53	100	285	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 106 5530MHz		5457.52	52.9	-21.1	74	42.82	32.88	10.66	33.46	100	246	P	V
		5467.36	53.3	-14.9	68.2	43.23	32.87	10.66	33.46	100	246	P	V
		5458.24	43.53	-10.47	54	33.45	32.88	10.66	33.46	100	246	A	V
	*	5530	98.86	-	-	88.86	32.8	10.67	33.47	100	246	P	V
	*	5530	88.4	-	-	78.4	32.8	10.67	33.47	100	246	A	V
		5763.425	49.8	-18.4	68.2	38.83	33.63	10.87	33.53	100	246	P	V
802.11ax HE80 Full CH 122 5610MHz		5421.4	49.81	-24.19	74	39.71	32.9	10.65	33.45	100	283	P	V
		5469	47.66	-20.54	68.2	37.6	32.86	10.66	33.46	100	283	P	V
		5455.35	39.81	-14.19	54	29.72	32.89	10.66	33.46	100	283	A	V
	*	5610	98.38	-	-	87.96	33.22	10.69	33.49	100	283	P	V
	*	5610	87.25	-	-	76.83	33.22	10.69	33.49	100	283	A	V
		5755.55	51.35	-16.85	68.2	40.41	33.61	10.86	33.53	100	283	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 114 5570MHz		5456.56	51.69	-22.31	74	41.6	32.89	10.66	33.46	109	285	P	V
		5466.4	52.93	-15.27	68.2	42.86	32.87	10.66	33.46	109	285	P	V
		5459.2	41.93	-12.07	54	31.85	32.88	10.66	33.46	109	285	A	V
	*	5570	94.68	-	-	84.52	32.96	10.68	33.48	109	285	P	V
	*	5570	85.07	-	-	74.91	32.96	10.68	33.48	109	285	A	V
		5750.195	51.07	-17.13	68.2	40.15	33.6	10.85	33.53	109	285	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Partial 996 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 996/67 CH 106 5530MHz		5456.08	50.34	-23.66	74	40.25	32.89	10.66	33.46	111	284	P	V
		5466.64	48.97	-19.23	68.2	38.9	32.87	10.66	33.46	111	284	P	V
		5458.24	40.3	-13.7	54	30.22	32.88	10.66	33.46	111	284	A	V
	*	5530	95.23	-	-	85.23	32.8	10.67	33.47	111	284	P	V
	*	5530	84.83	-	-	74.83	32.8	10.67	33.47	111	284	A	V
		5738.855	50.85	-17.35	68.2	40	33.53	10.84	33.52	111	284	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 Partial 996 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5384.3	50.88	-23.12	74	40.83	32.87	10.63	33.45	108	284	P	V
HE80		5469.7	49.5	-18.7	68.2	39.44	32.86	10.66	33.46	108	284	P	V
Partial		5457.8	40.18	-13.82	54	30.1	32.88	10.66	33.46	108	284	A	V
996/67	*	5610	94.5	-	-	84.08	33.22	10.69	33.49	108	284	P	V
CH 122	*	5610	85.34	-	-	74.92	33.22	10.69	33.49	108	284	A	V
5610MHz		5731.575	51.53	-16.67	68.2	40.73	33.49	10.83	33.52	108	284	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		5456.56	51.69	-22.31	74	41.6	32.89	10.66	33.46	109	285	P	V
HE160		5466.4	52.93	-15.27	68.2	42.86	32.87	10.66	33.46	109	285	P	V
Partial		5459.2	41.93	-12.07	54	31.85	32.88	10.66	33.46	109	285	A	V
1992/67	*	5570	94.68	-	-	84.52	32.96	10.68	33.48	109	285	P	V
CH 114	*	5570	85.07	-	-	74.91	32.96	10.68	33.48	109	285	A	V
5570MHz		5750.195	51.07	-17.13	68.2	40.15	33.6	10.85	33.53	109	285	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

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. Over 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

Test Engineer :	Garvey Guo and Troye Hseih	Temperature :	20.1 ~ 21.8°C
		Relative Humidity :	53.2 ~ 66.1%

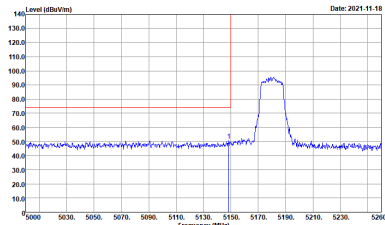
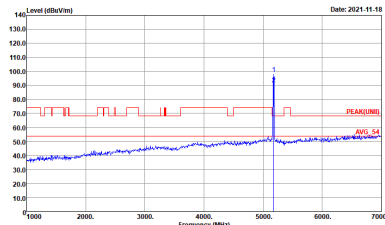
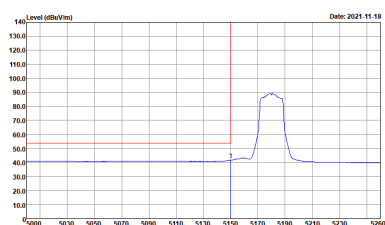
Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 0 (Aux.) and Ant. 2 means Chain 1 (Main).

Note symbol

-L	Low channel location
-R	High channel location

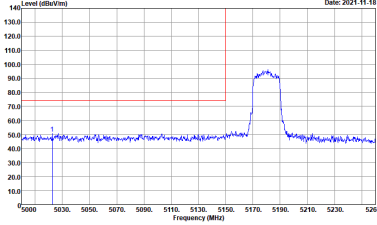
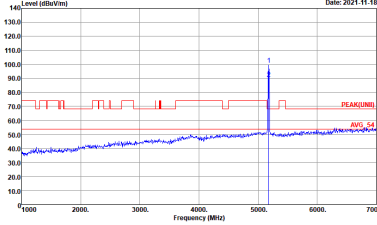
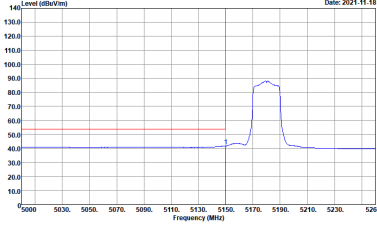


Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

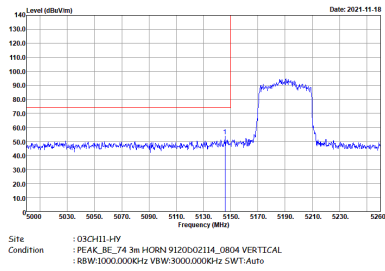
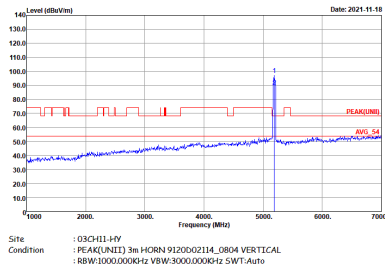
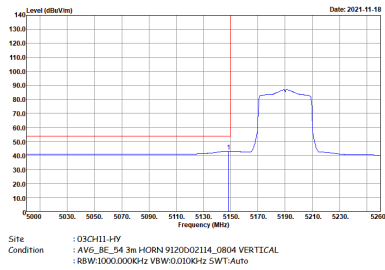


Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

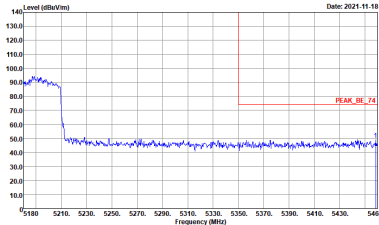
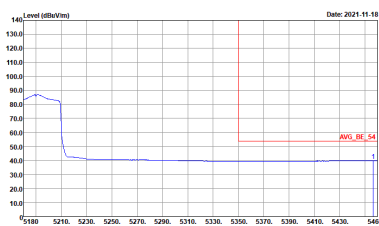
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz 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	
1	Vertical	Fundamental
Peak	 Site: 03CH11-HY Condition: : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site: 03CH11-HY Condition: : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site: 03CH11-HY Condition: : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

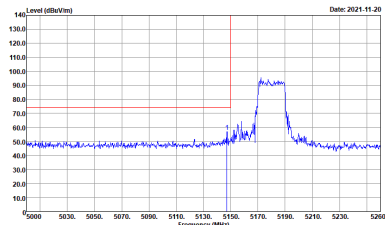
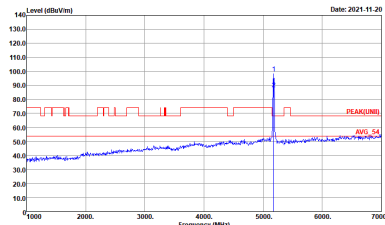
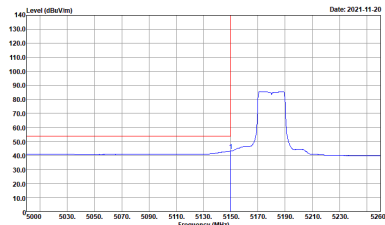


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank



Band 1 5150~5250MHz

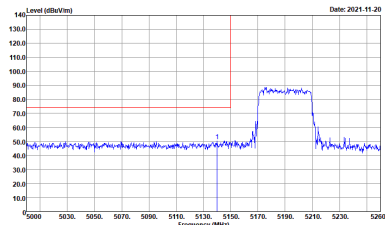
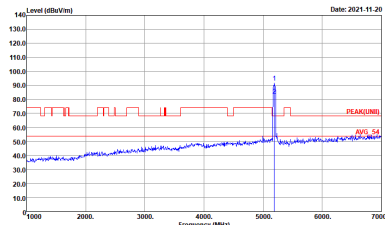
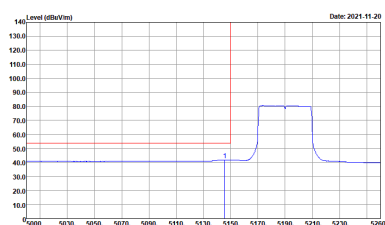
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH36 5180MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D02114_0804 VERTICAL : RBW:3000.000kHz VBW:0.010kHz SWT:Auto	Left blank



Band 1 5150~5250MHz

WIFI 802.11ax HE40 Partial 484 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:0.010kHz SWT:Auto	Left blank

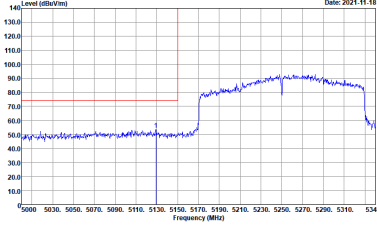
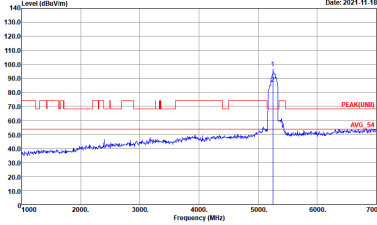
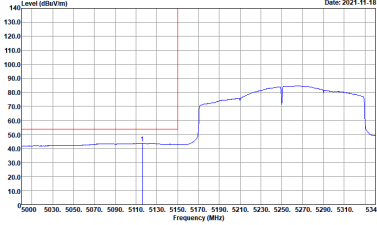


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank

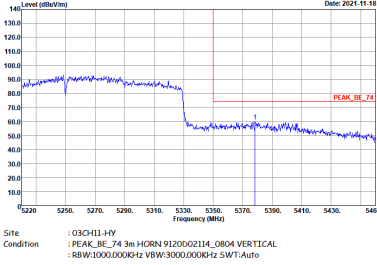
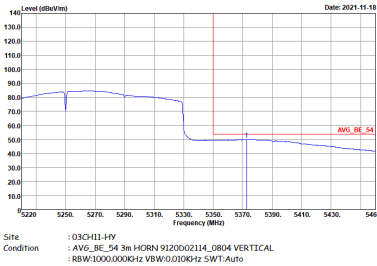


Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

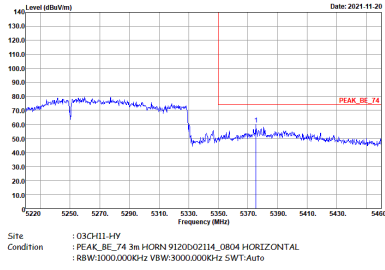
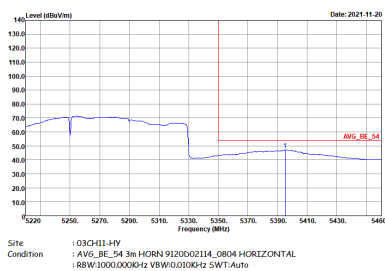


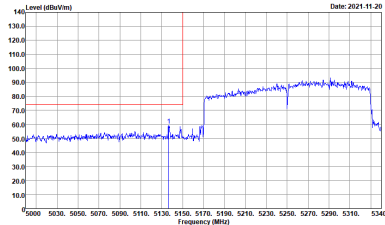
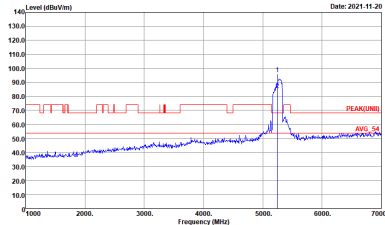
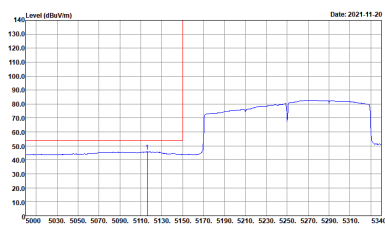
Band 1 5150~5250MHz

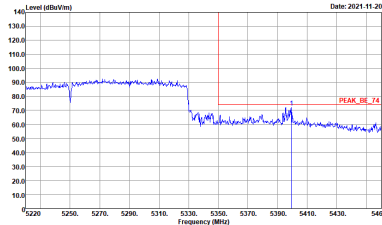
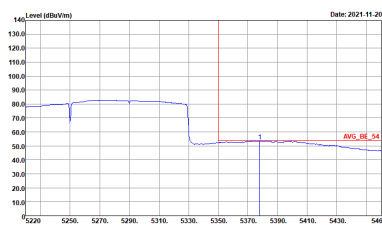
WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH50 5250MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D02114_0804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D02114_0804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D02114_0804 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH50 5250MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 HORIZONTAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto	Left blank

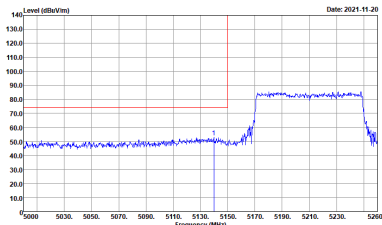
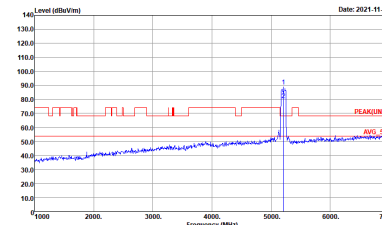
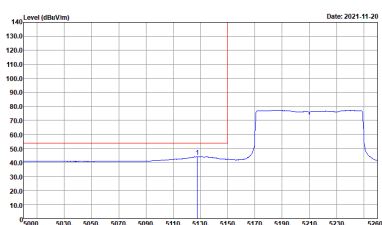
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH50 5250MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH50 5250MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

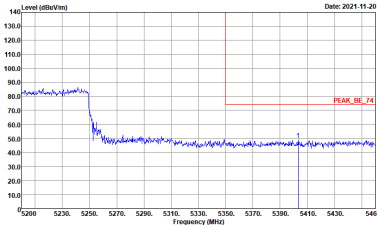
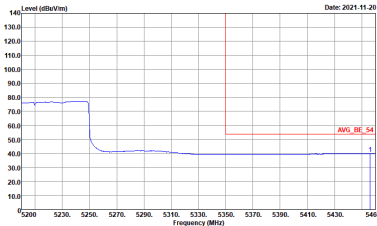


Band 1 5150~5250MHz

WIFI 802.11ax HE80 Partial 996 (Band Edge @ 3m)

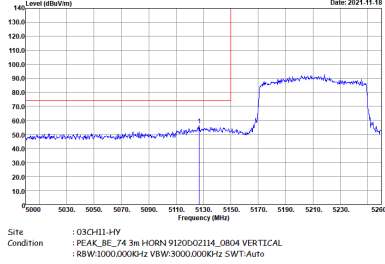
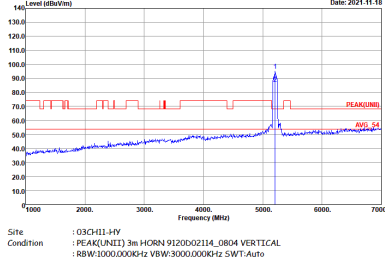
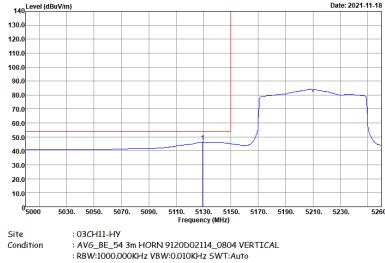
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:0.010KHz SWT:Auto	Left blank



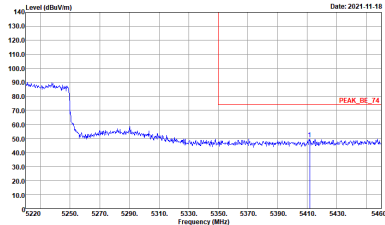
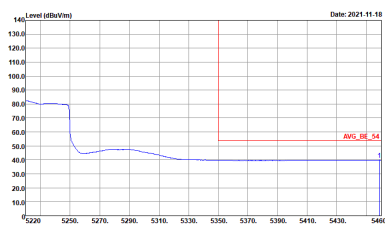
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank



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

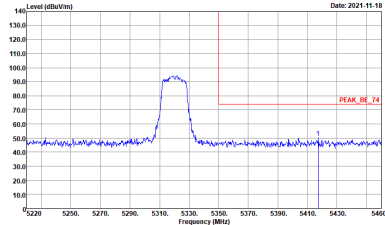
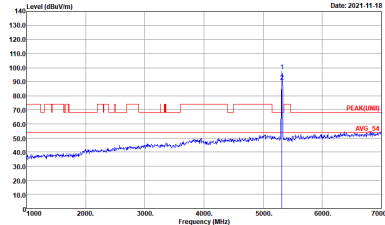
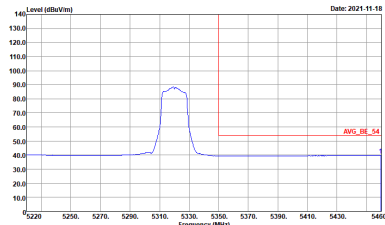
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site: 03CH11-4Y Condition: : PEAK_BE_74 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Date: 2021-11-18	 Site: 03CH11-4Y Condition: : PEAK(UNIT) 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Date: 2021-11-18
Avg.	 Site: 03CH11-4Y Condition: : AVG_BE_54 3m HORN 9120D02114_0804 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto Date: 2021-11-18	Left blank



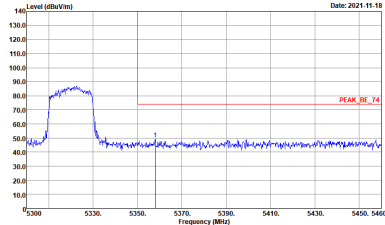
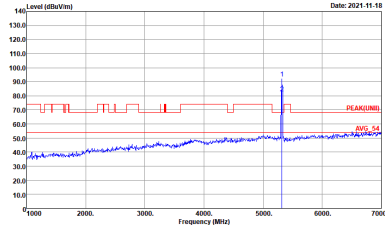
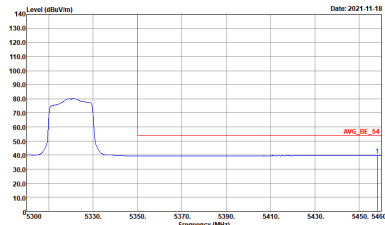
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

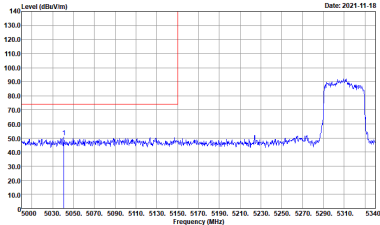
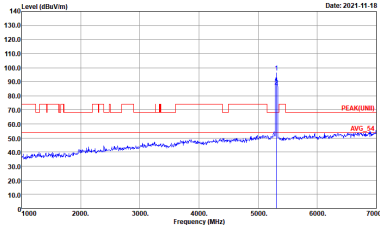
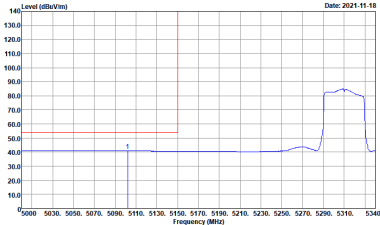
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

Band 2 5250~5350MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

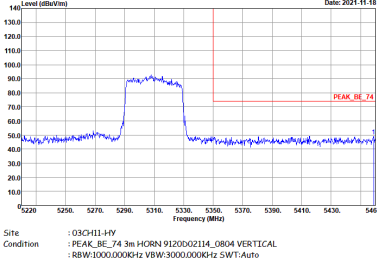
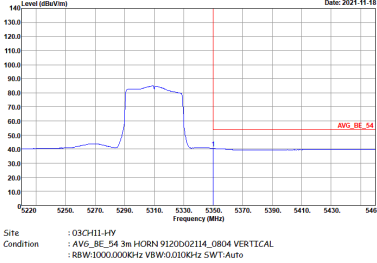
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNB) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



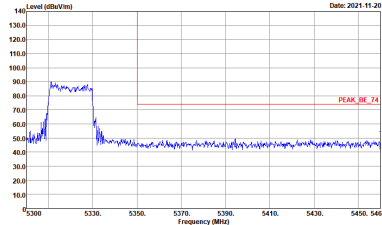
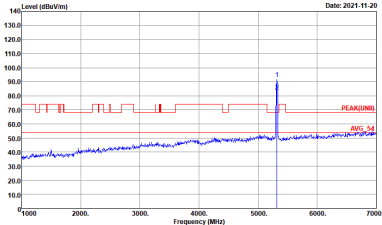
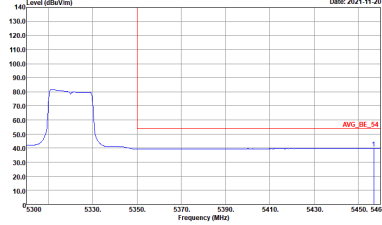
Band 2 - 5250~5350MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL RBW:3000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 2 5250~5350MHz
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH64 5320 - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

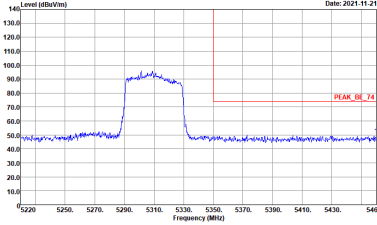
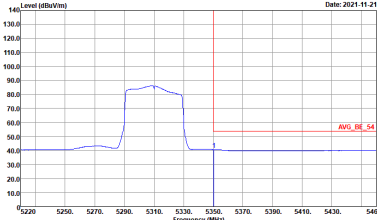


Band 2 5250~5350MHz

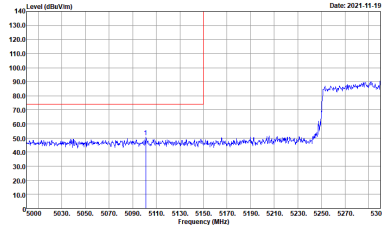
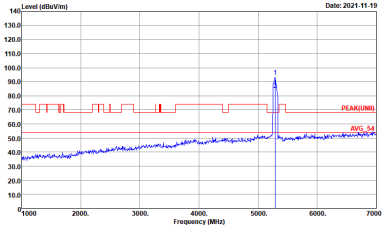
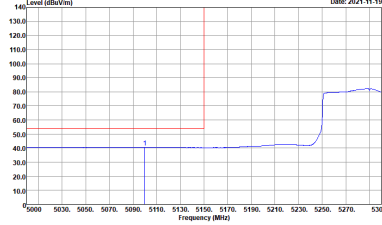
WIFI 802.11ax HE40 Partial 484 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH62 5310 - L	
2	Vertical	Fundamental
Peak	Site : 03CH11-1FV Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-1FV Condition : PEAK(UNL1) 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-1FV Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH62 5310 - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

Band 2 5250~5350MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

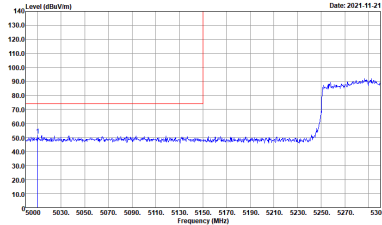
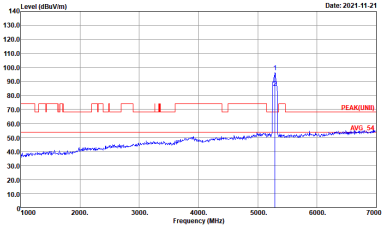
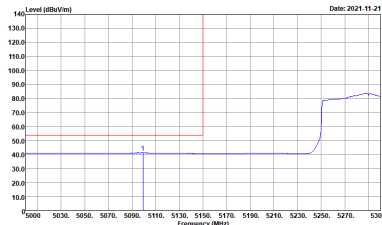


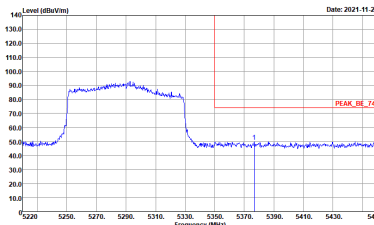
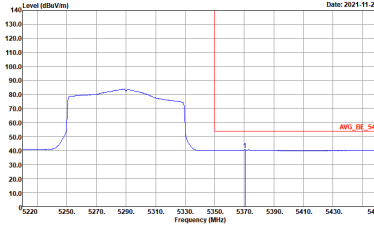
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - R	
2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:0.010KHz SWT:Auto	Left blank



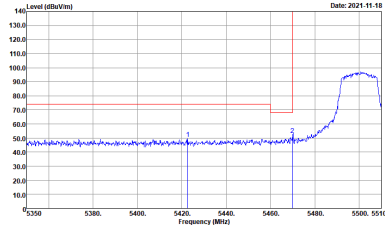
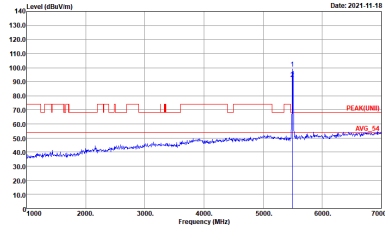
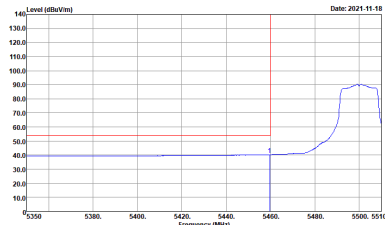
Band 2 5250~5350MHz

WIFI 802.11ax HE80 Partial 996 (Band Edge @ 3m)

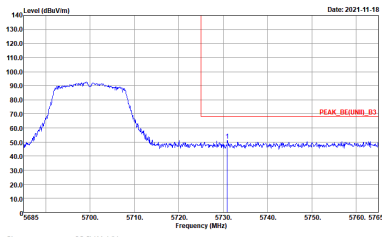
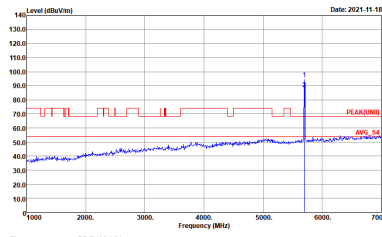
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH58 5290MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNL1) 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH58 5290MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

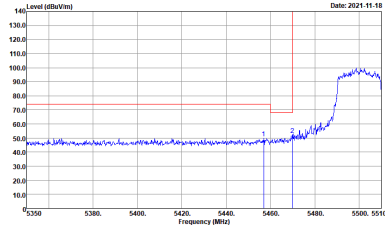
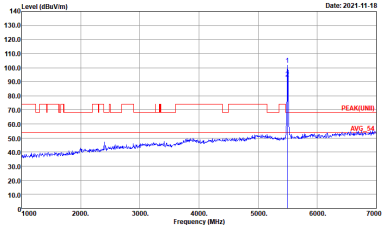
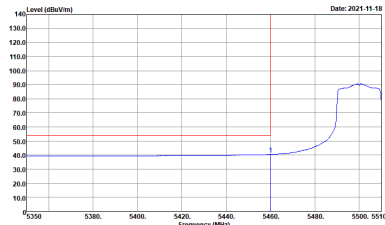
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200002114_0804 VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200002114_0804 VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto

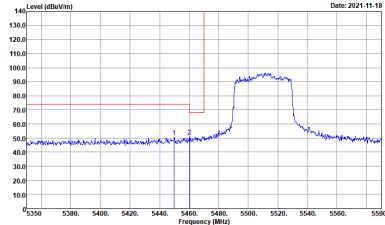
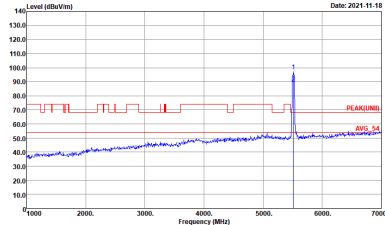
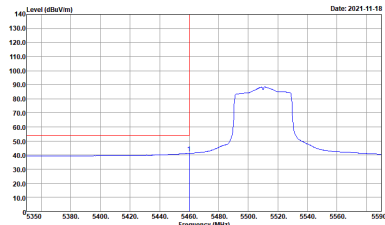
Band 3 5470~5725MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

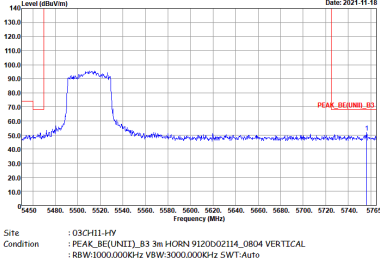


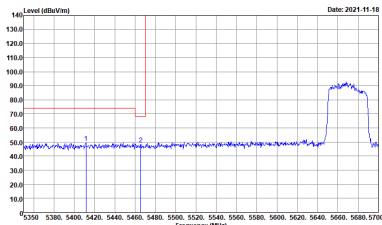
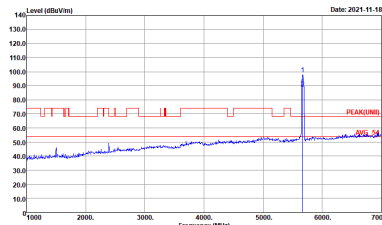
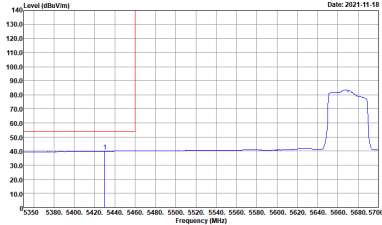
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200002114_0804 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200002114_0804 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto

Band 3 - 5470~5725MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

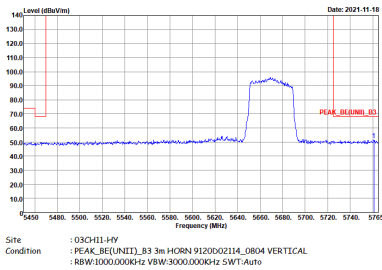
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:0.010KHz SWT:Auto	Left blank



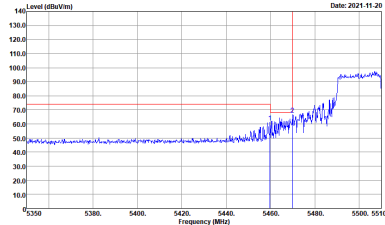
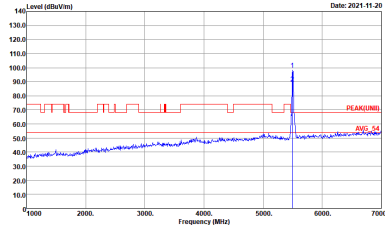
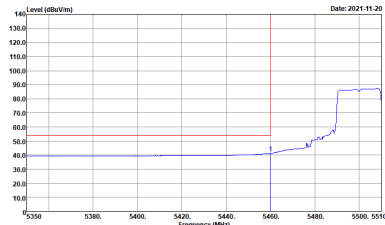
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Date: 2021-11-18	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:0.010KHz SWT:Auto	Left blank

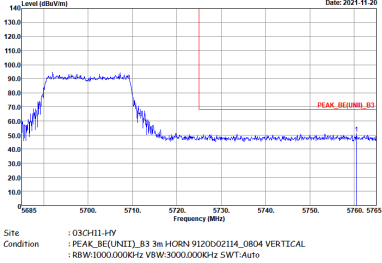
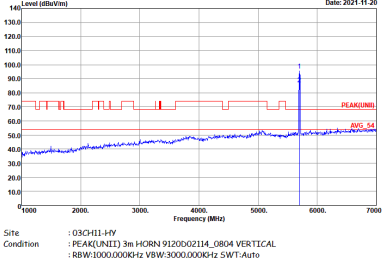


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002134_0804 VERTICAL RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Date: 2021-11-18	Left blank

Band 3 5470~5725MHz
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH100 5500MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:0.010KHz SWT:Auto	Left blank

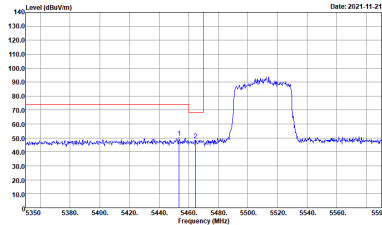
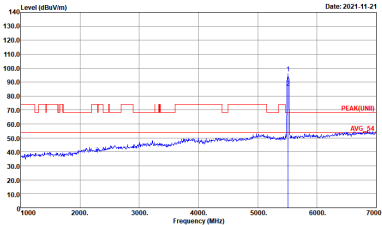
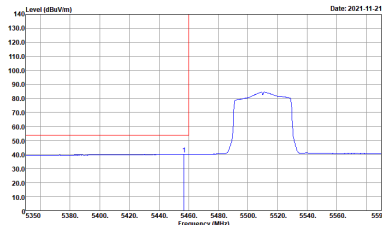


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH140 5700MHz - R	
2	Vertical	Fundamental
Peak		
Avg.	Left blank	Left blank

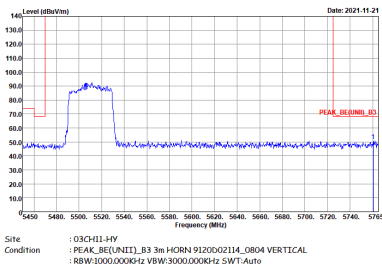


Band 3 5470~5725MHz

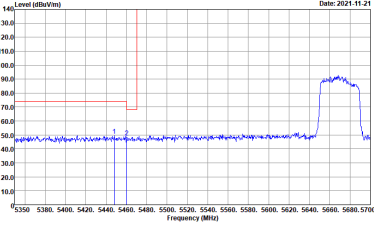
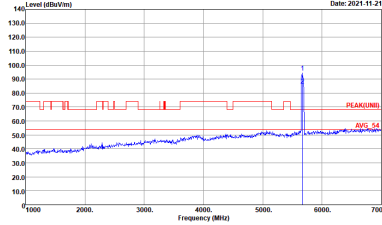
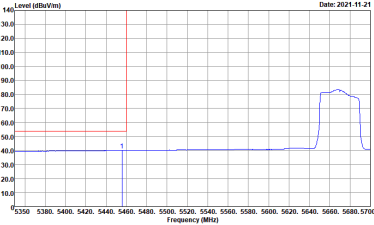
WIFI 802.11ax HE40 Partial 484 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH102 5510MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT1) 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT1)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

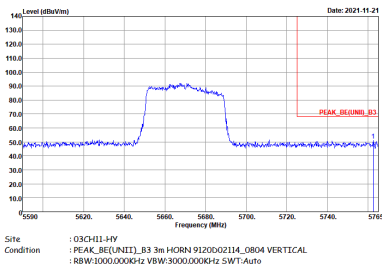


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH102 5510MHz - R	
2	Vertical	Fundamental
Peak		Left blank

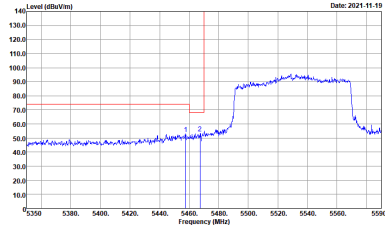
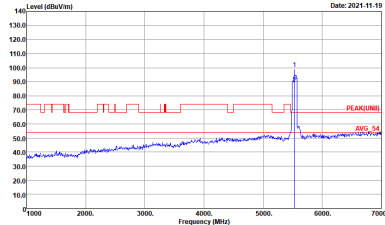
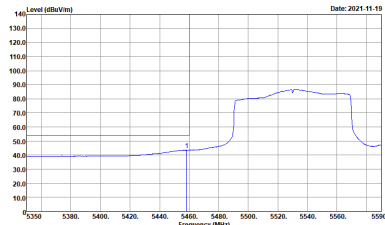


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH134 5670MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT1)_3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000kHz VBW:3000.0000kHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT1)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:1000.0000kHz VBW:0.0100kHz SWT:Auto	Left blank

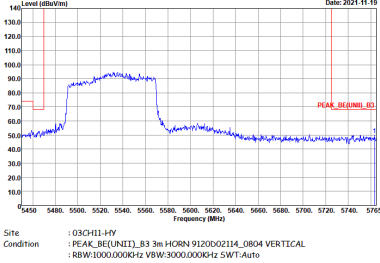


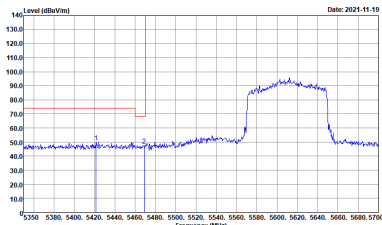
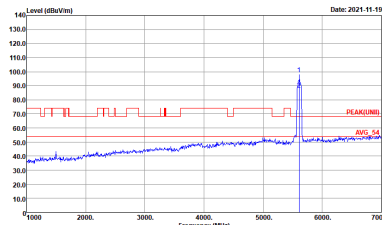
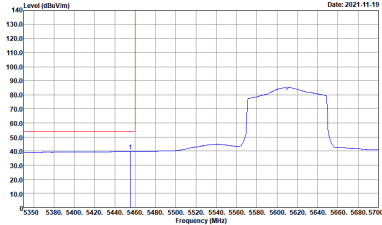
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 484/65 CH134 5670MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-14Y Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

Band 3 5470~5725MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

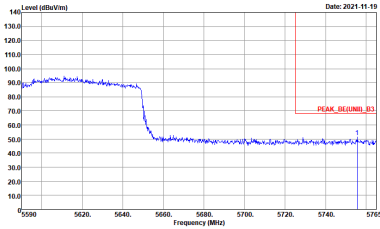
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



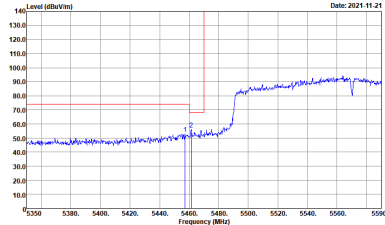
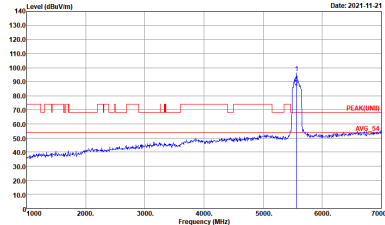
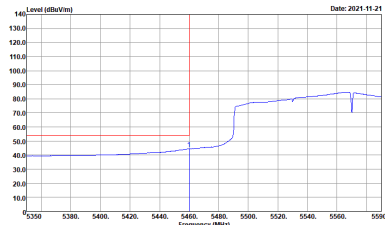
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-FY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto Date: 2021-11-19	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.0000Hz VBW:0.0100Hz SWT:Auto	Left blank

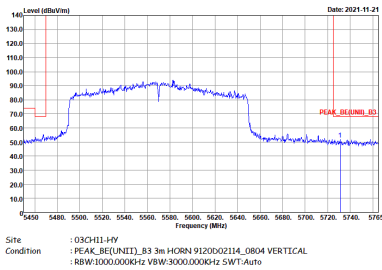


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-FY Condition : PEAK_REUNITI_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto	Left blank

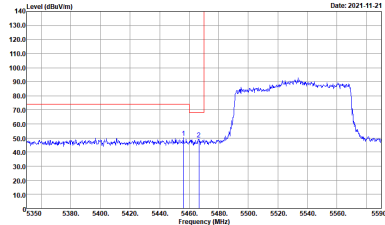
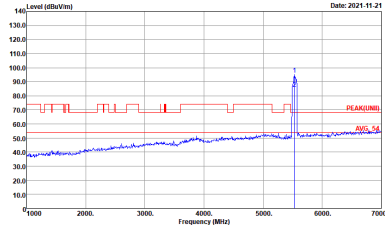
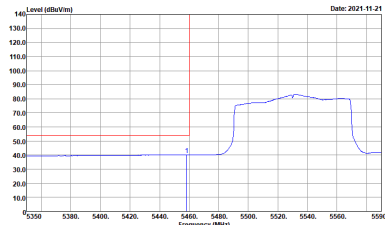
Band 3 5470~5725MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VSW:0.010KHz SWT:Auto	Left blank

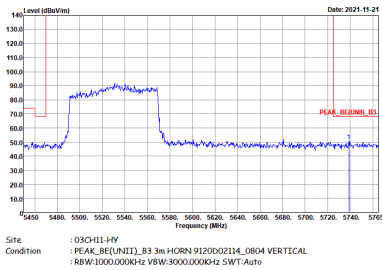


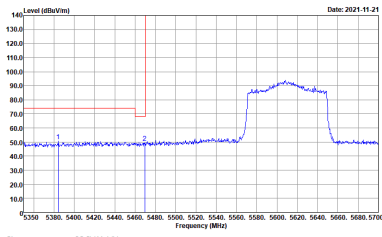
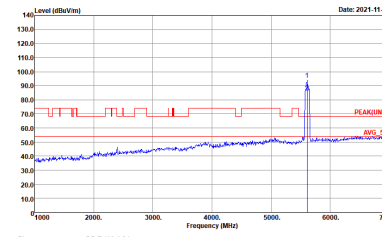
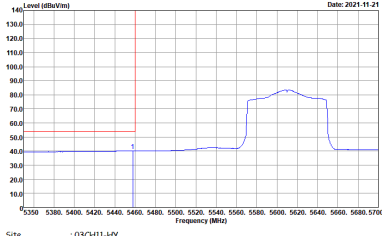
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-FY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL RBW:3000.000KHz VSW:3000.000Hz SWT:Auto Date: 2021-11-21	Left blank

Band 3 5470~5725MHz
WIFI 802.11ax HE80 Partial 996 (Band Edge @ 3m)

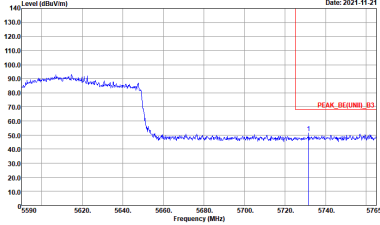
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH106 5530MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



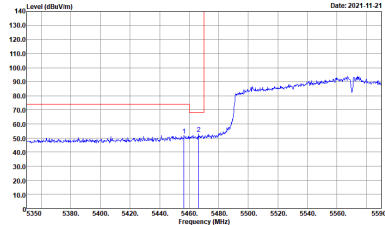
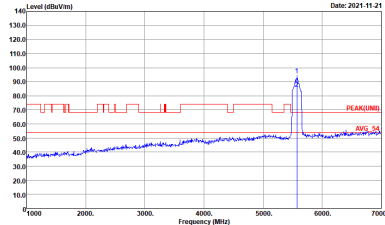
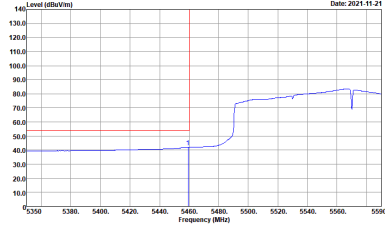
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH106 5530MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-FY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL RBW:3000.000KHz VSW:3000.000Hz SWT:Auto Date: 2021-11-21	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH122 5610MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

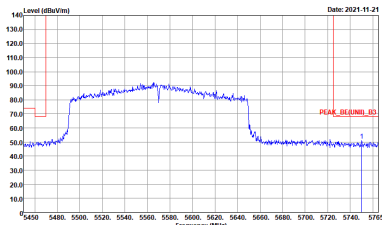


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 996/67 CH122 5610MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH11-FY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

Band 3 5470~5725MHz
WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH114 5570MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

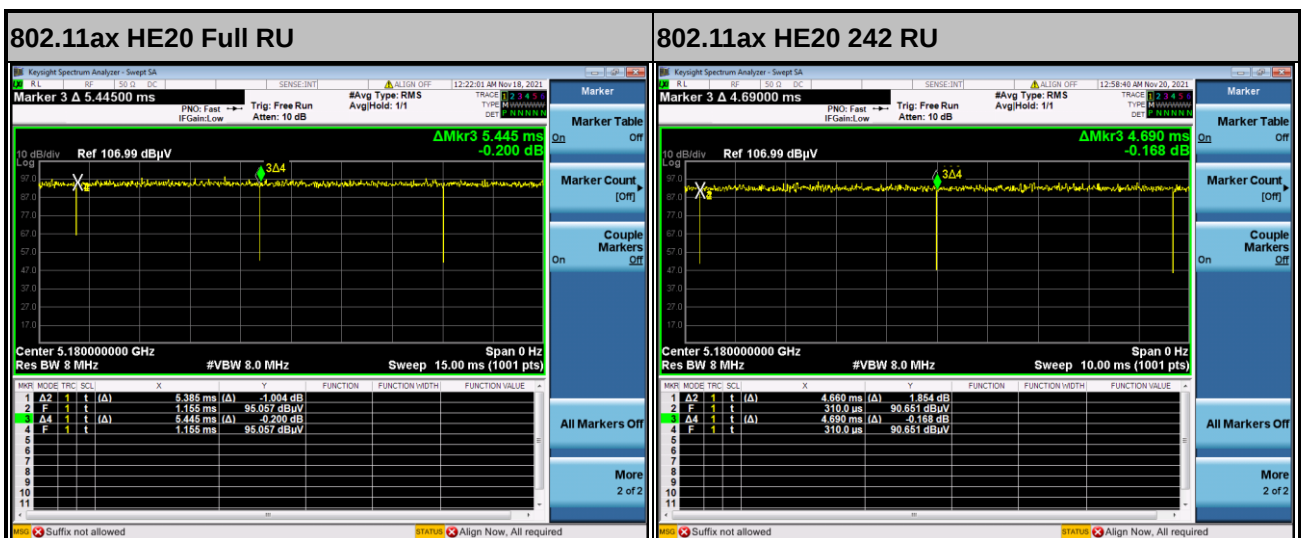
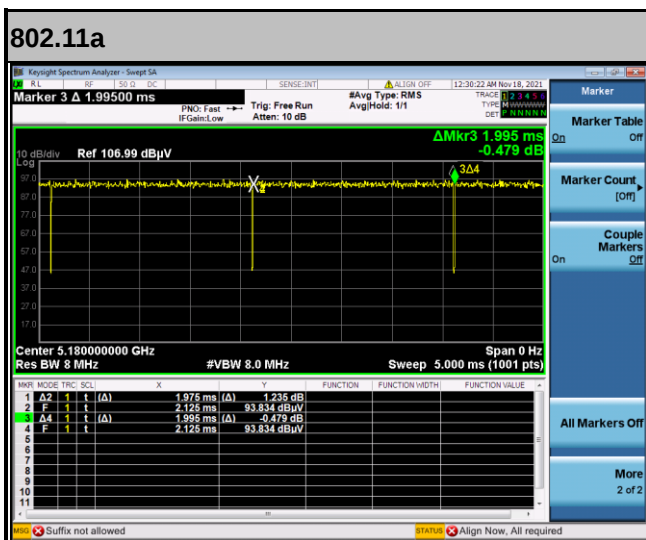


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 1992/68 CH114 5570MHz - R	
2	Vertical	Fundamental
	 Site : 03CH11-FY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120002114_0804 VERTICAL : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



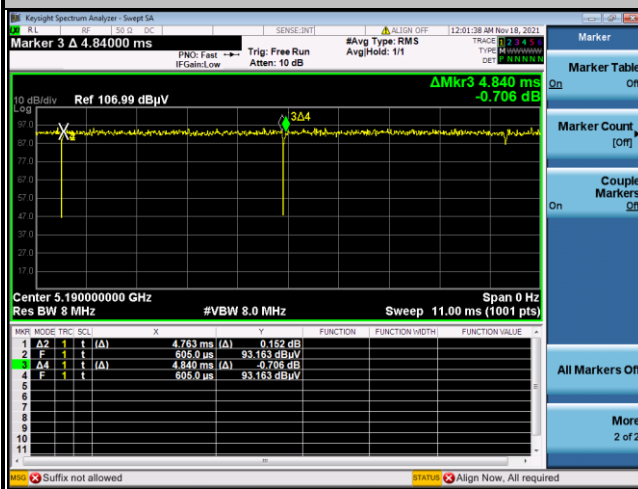
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	99.00	-	-	10Hz
1	5GHz 802.11ax HE20 Full RU	98.90	-	-	10Hz
1	5GHz 802.11ax HE20 242 RU	99.36	-	-	10Hz
1	5GHz 802.11ax HE40 Full RU	98.41	-	-	10Hz
1	5GHz 802.11ax HE40 484 RU	98.21	-	-	10Hz
1	5GHz 802.11ax HE80 Full RU	98.64	-	-	10Hz
1	5GHz 802.11ax HE80 996 RU	98.17	-	-	10Hz
1	5GHz 802.11ax HE160 Full RU	98.43	-	-	10Hz
1	5GHz 802.11ax HE160 1992 RU	98.39	-	-	10Hz

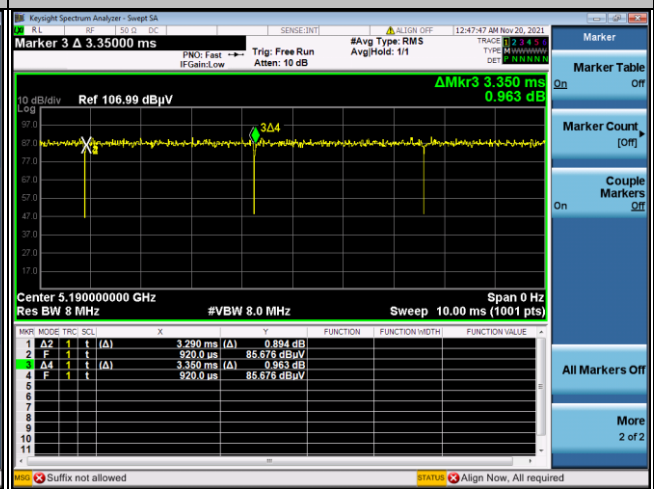




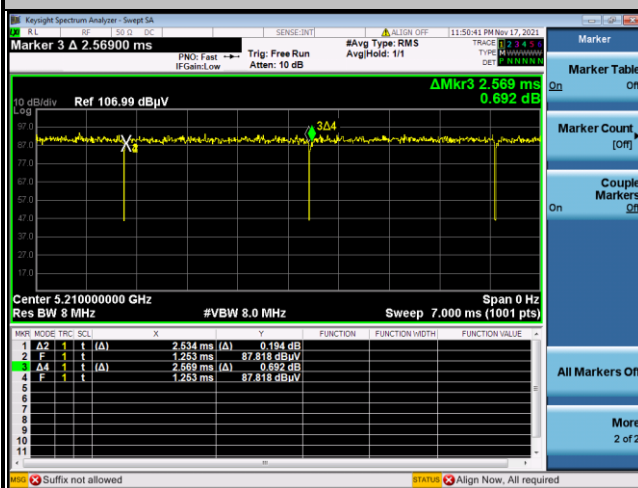
802.11ax HE40 Full RU



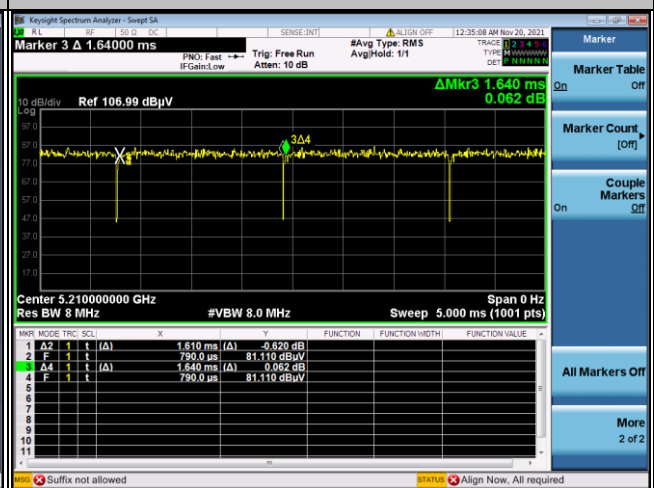
802.11ax HE40 484 RU



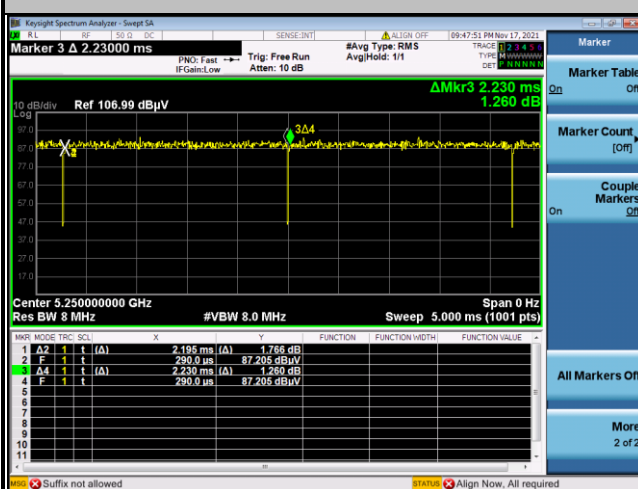
802.11ax HE80 Full RU



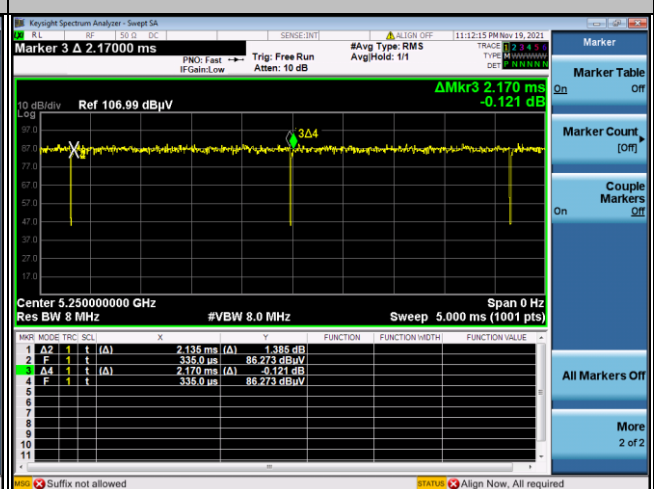
802.11ax HE80 996 RU



802.11ax HE160 Full RU

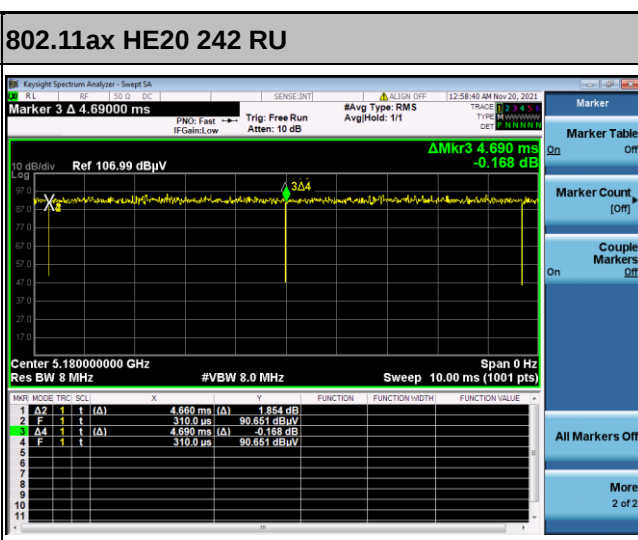
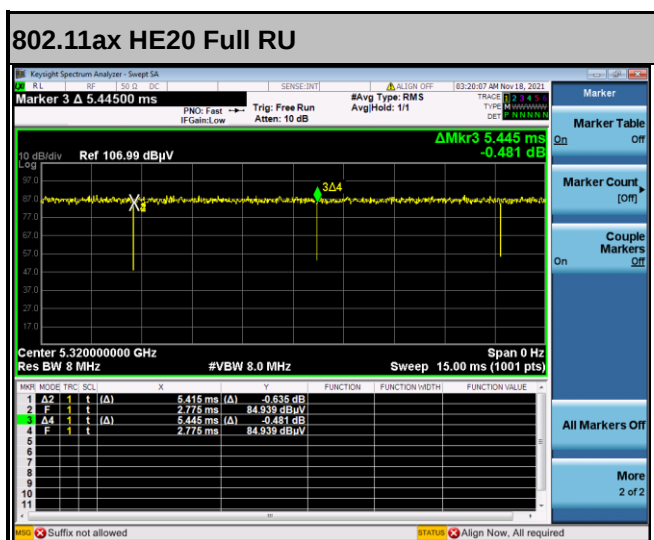
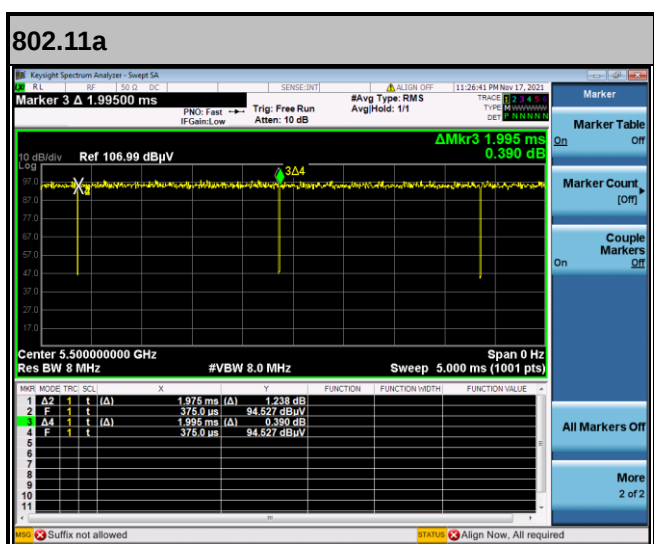


802.11ax HE160 1992 RU



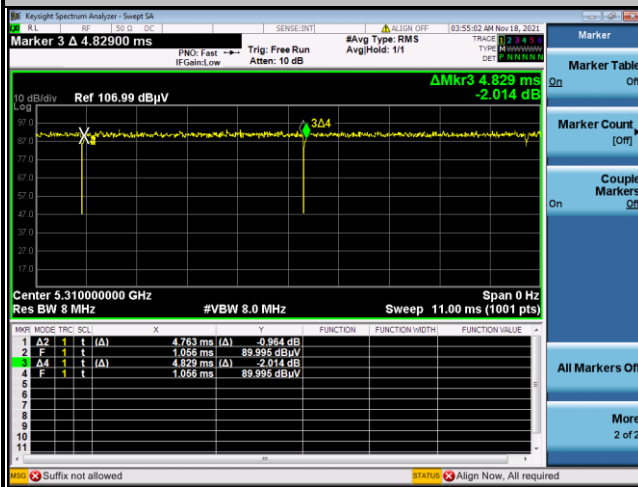


Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
2	802.11a	99.00	-	-	10Hz
2	5GHz 802.11ax HE20 Full RU	99.45	-	-	10Hz
2	5GHz 802.11ax HE20 242 RU	99.36	-	-	10Hz
2	5GHz 802.11ax HE40 Full RU	98.63	-	-	10Hz
2	5GHz 802.11ax HE40 484 RU	98.21	-	-	10Hz
2	5GHz 802.11ax HE80 Full RU	98.64	-	-	10Hz
2	5GHz 802.11ax HE80 996 RU	98.17	-	-	10Hz
2	5GHz 802.11ax HE160 Full RU	98.43	-	-	10Hz
2	5GHz 802.11ax HE160 1992 RU	98.39	-	-	10Hz

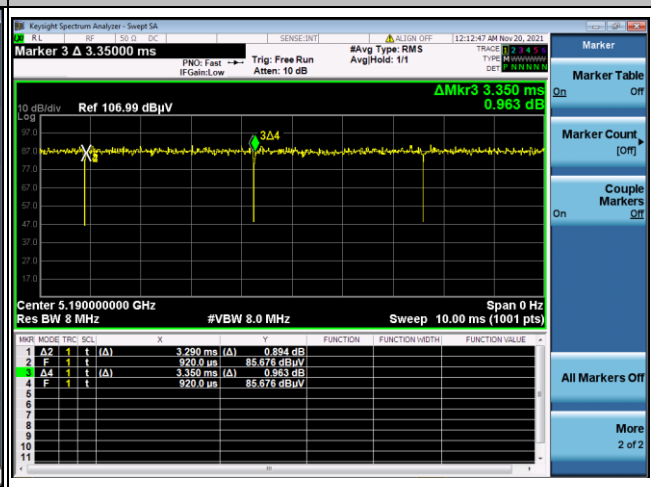




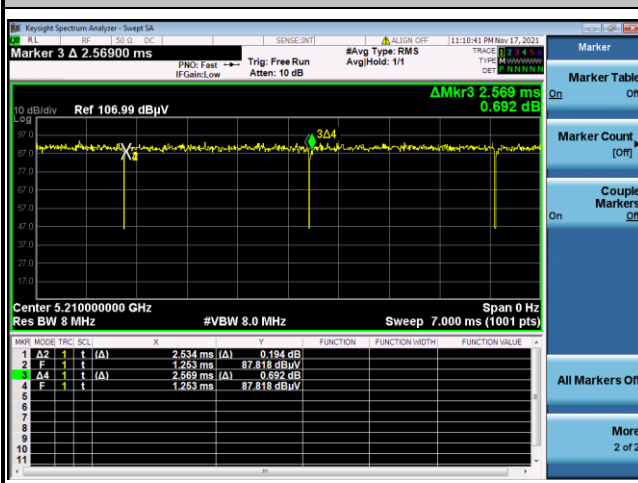
802.11ax HE40 Full RU



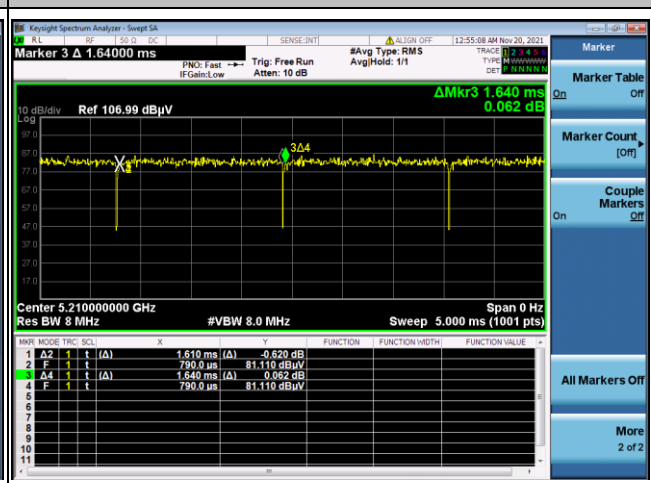
802.11ax HE40 484 RU



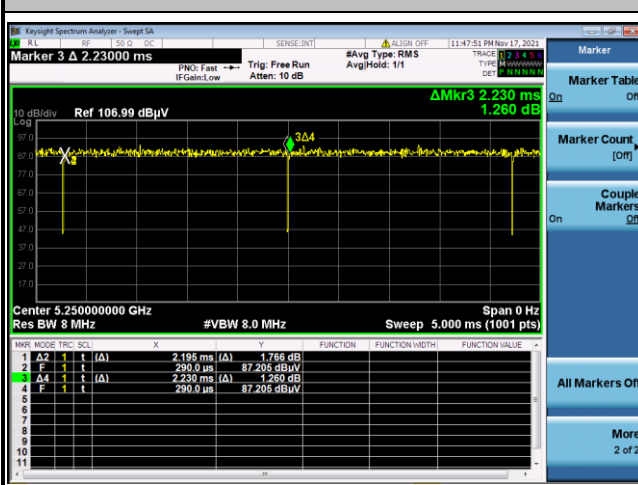
802.11ax HE80 Full RU



802.11ax HE80 996 RU



802.11ax HE160 Full RU



802.11ax HE160 1992 RU

