FCC RADIO TEST REPORT

FCC ID	:	**UZ7KC50E15**
Equipment	:	**KC50E15 Kiosk Computer**
Brand Name	:	**Zebra**
Model Name	:	**KC50E15**
Applicant	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Manufacturer	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 13, 2024 and testing was performed from May 13, 2024 to Sep. 02, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
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History of this test report

Report No.	Version	Description	Issue Date
FR470109D	01	Initial issue of report	Sep. 12, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.09 dB under the limit at 5150.00 MHz
3.5	15.207	AC Conducted Emission	Pass	8.78 dB under the limit at 13.56 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. ECR inquiry for data referencing from UZ7KC50A15 has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. UZ7KC50E15 is different from FCC ID: UZ7KC50A15 (Reference model), in the following:
   - The only difference between UZ7KC50E15 and UZ7KC50A15 are the main board schematics, key components of BOM and NFC software and hardware.
3. All the test results are referenced from UZ7KC50A15 (Sporton Test Report FR450111E), and spot check results to justify data referencing is presented in the Appendix G.
4. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

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

Reviewed by: Yun Huang

Report Producer: Mila Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	KC50E15 Kiosk Computer
Brand Name	Zebra
Model Name	KC50E15
FCC ID	UZ7KC50E15
Supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

1.2 EUT Information (Referenced Model)

Product Feature	
Equipment	KC50A15 Kiosk Computer
Brand Name	Zebra
Model Name	KC50A15
FCC ID	UZ7KC50A15
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	REV:PT
SW Version	13-29-29.00-TG-U00-STD-ATH-04
OS Version	Android 13
MFD	11MAY24
EUT Stage	Identical Prototype

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

Specification of Accessories				
AC Adapter	**Brand Name**	ZEBRA	**Model Name**	PS000088A01
USB C-C Cable	**Brand Name**	ZEBRA	**Part Number**	CBL-EC5X-USBC3A-01
Stand	**Brand Name**	ZEBRA	**Part Number**	3PTY-SC-2000-CF2-01
Printer	**Brand Name**	ZEBRA	**Model Name**	ZD230t
2nd display	**Brand Name**	ZEBRA	**Model Name**	TD50-15F00
Edge scanner	**Brand Name**	ZEBRA	**Part Number**	ZFLX-SCNR-E00
Edge LED Light Bar	**Brand Name**	ZEBRA	**Part Number**	ZFLX-LTBAR-200
USB Cable	**Brand Name**	ZEBRA	**Part Number**	300283-002

1.3 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 1+2>** 802.11a: 22.34 dBm / 0.1714 W 802.11n HT20: 22.44 dBm / 0.1754 W 802.11n HT40: 22.94 dBm / 0.1968 W 802.11ac VHT20: 22.54 dBm / 0.1795 W 802.11ac VHT40: 23.04 dBm / 0.2014 W 802.11ac VHT80: 18.58 dBm / 0.0721 W 802.11ac VHT160: 17.13 dBm / 0.0516 W 802.11ax HE20: 22.64 dBm / 0.1837 W 802.11ax HE40: 23.14 dBm / 0.2061 W 802.11ax HE80: 18.68 dBm / 0.0738 W 802.11ax HE160: 17.23 dBm / 0.0528 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 1+2>** 802.11a: 21.78 dBm / 0.1507 W 802.11n HT20: 22.28 dBm / 0.1690 W 802.11n HT40: 22.94 dBm / 0.1968 W 802.11ac VHT20: 22.38 dBm / 0.1730 W 802.11ac VHT40: 23.04 dBm / 0.2014 W 802.11ac VHT80: 18.87 dBm / 0.0771 W 802.11ax HE20: 22.48 dBm / 0.1770 W 802.11ax HE40: 23.14 dBm / 0.2061 W 802.11ax HE80: 18.97 dBm / 0.0789 W 802.11ax HE160: 13.98 dBm / 0.0250 W **<5500 MHz ~ 5720 MHz>** **MIMO <Ant. 1+2>** 802.11a: 22.07 dBm / 0.1611 W 802.11n HT20: 22.54 dBm / 0.1795 W 802.11n HT40: 23.51 dBm / 0.2244 W 802.11ac VHT20: 22.64 dBm / 0.1837 W 802.11ac VHT40: 23.61 dBm / 0.2296 W 802.11ac VHT80: 22.61 dBm / 0.1824 W 802.11ac VHT160: 17.67 dBm / 0.0585 W 802.11ax HE20: 22.74 dBm / 0.1879 W 802.11ax HE40: 23.71 dBm / 0.2350 W 802.11ax HE80: 22.71 dBm / 0.1866 W 802.11ax HE160: 17.77 dBm / 0.0598 W

Product Specification is subject to this standard	
99% Occupied Bandwidth	**MIMO <Ant. 1>** 802.11a: 16.53 MHz 802.11ac VHT20: 17.78 MHz 802.11ac VHT40: 37.26 MHz 802.11ac VHT80: 75.52 MHz 802.11ac VHT160: 154.89 MHz 802.11ax HE20: 19.08 MHz 802.11ax HE40: 38.56 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 156.56 MHz **MIMO <Ant. 2>** 802.11a: 16.48 MHz 802.11ac VHT20: 17.68 MHz 802.11ac VHT40: 36.56 MHz 802.11ac VHT80: 75.52 MHz 802.11ac VHT160: 154.89 MHz 802.11ax HE20: 19.08 MHz 802.11ax HE40: 38.16 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 156.56 MHz
Antenna Type	**<5180 MHz ~ 5240 MHz>** **<Ant. 1>:** Coupling Antenna **<Ant. 2>:** PIFA Antenna **<5260 MHz ~ 5320 MHz>** **<Ant. 1>:** Coupling Antenna **<Ant. 2>:** PIFA Antenna **<5500 MHz ~ 5720 MHz>** **<Ant. 1>:** Coupling Antenna **<Ant. 2>:** PIFA Antenna
Antenna Gain	**<5180 MHz ~ 5240 MHz>** **<Ant. 1>:** 3.28 dBi **<Ant. 2>:** 3.80 dBi **<5260 MHz ~ 5320 MHz>** **<Ant. 1>:** 3.99 dBi **<Ant. 2>:** 3.80 dBi **<5500 MHz ~ 5720 MHz>** **<Ant. 1>:** 3.87 dBi **<Ant. 2>:** 3.99 dBi

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
802.11ax : OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table>
<tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr>
<tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ax TXBF</td><td>V</td><td>V</td></tr>
</table></td></tr>
</table>

Remark:

1. MIMO Ant. 1+2 Directional Gain is a calculated result from MIMO Ant. 1 and MIMO Ant. 2. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 1 + Ant. 2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
3. 802.11ax Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.3.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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

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

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.28	3.80	3.80	6.55	0.00	0.55
Band II	3.99	3.80	3.99	6.91	0.00	0.91
Band III	3.87	3.99	3.99	6.94	0.00	0.94

Calculation example:

If a device has two antenna, G_{ANT1}= 3.28dBi; G_{ANT2}=3.80dBi

Directional gain of power measurement = max(3.28, 3.80) + 0 = 3.80 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (3.28 dBi / 20) + 10^ (3.80 dBi / 20)] ^ 2 } / 2 }

= 6.55 dBi

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

<TXBF Modes>

The EUT supports beamforming modes , then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.28	3.80	6.55	6.55	0.55	0.55
Band II	3.99	3.80	6.91	6.91	0.91	0.91
Band III	3.87	3.99	6.94	6.94	0.94	0.94

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (3.28 dBi / 20) + 10^ (3.80 dBi / 20)] ^ 2 } / 2 }

= 6.55 dBi

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

1.4 Modification of EUT

No modifications made to the EUT during the testing.

1.5 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, CO07-HY, 03CH20-HY

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

FCC designation No.: TW3786

1.6 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

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

Note:

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

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

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

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

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

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Scan Bar Code + USB C-C Cable Display with 2nd display + USB Cable with Printer + AC Adapter + LAN Link with Notebook + Edge USB-C with (Edge scanner + (Data Link with USB Flash Drive (USB Flash Drive to SD Card)) + Edge LED Light Bar + Mouse) + Stand
Remark: Data Link with USB Flash Drive means data application transferred mode between EUT and USB Flash Drive.	

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

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

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

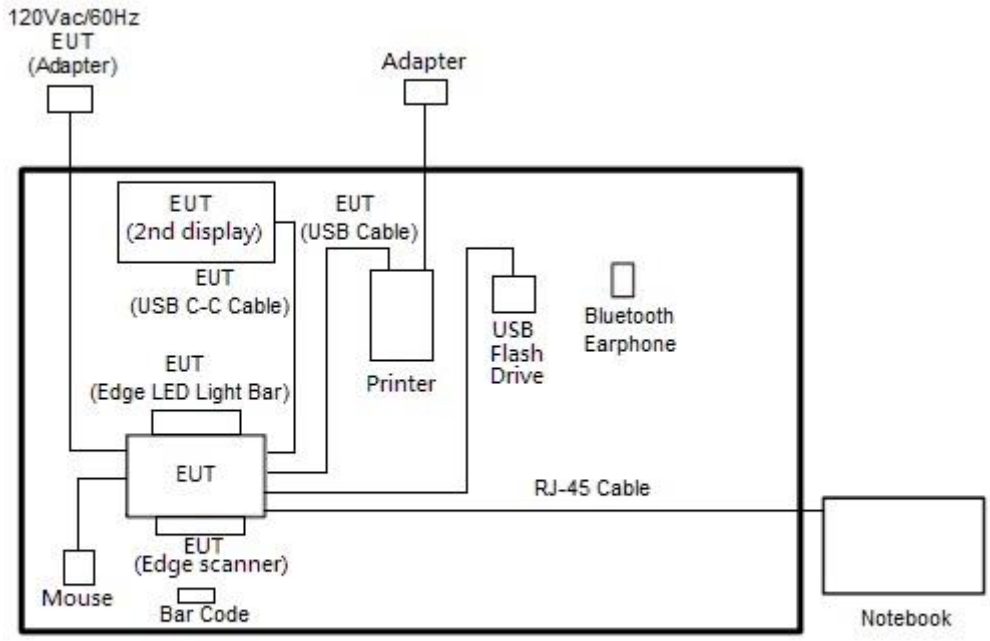
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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

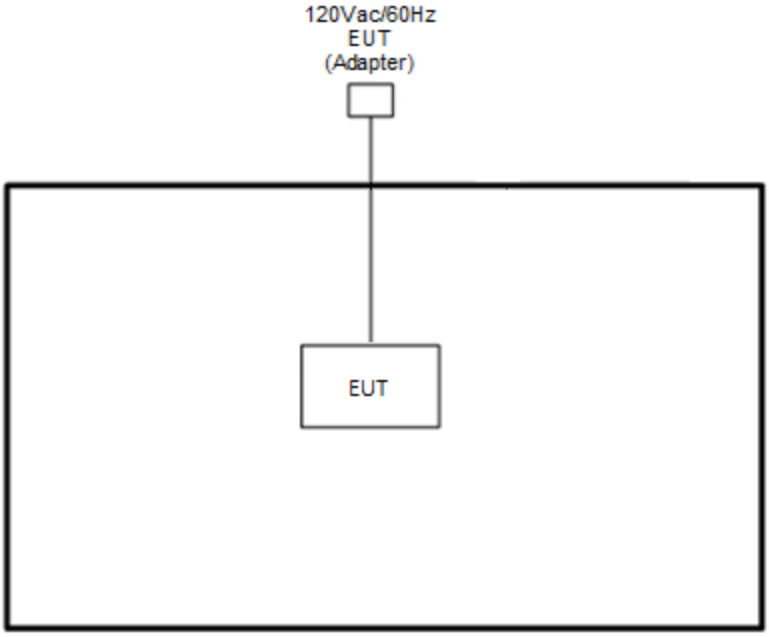
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded,1.8m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Mouse	ACER	MOANUOA	FCC DoC	Shielded, 1.7m	N/A
5.	Bar Code	N/A	N/A	N/A	N/A	N/A
6.	USB Flash Drive	SanDisk	E4BDC	FCC DoC	N/A	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Version 4.0.211.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

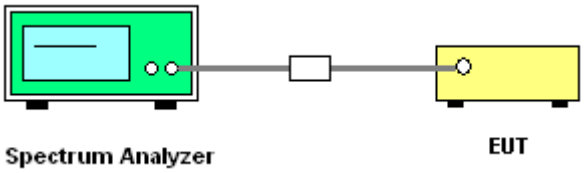
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

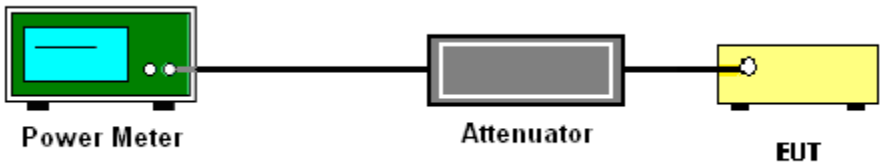
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # Method SA-2 #

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

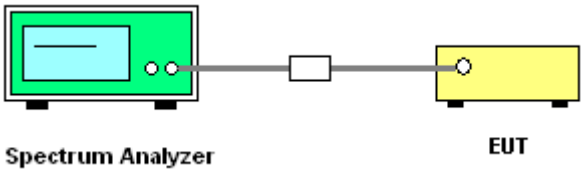
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x),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

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

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

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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

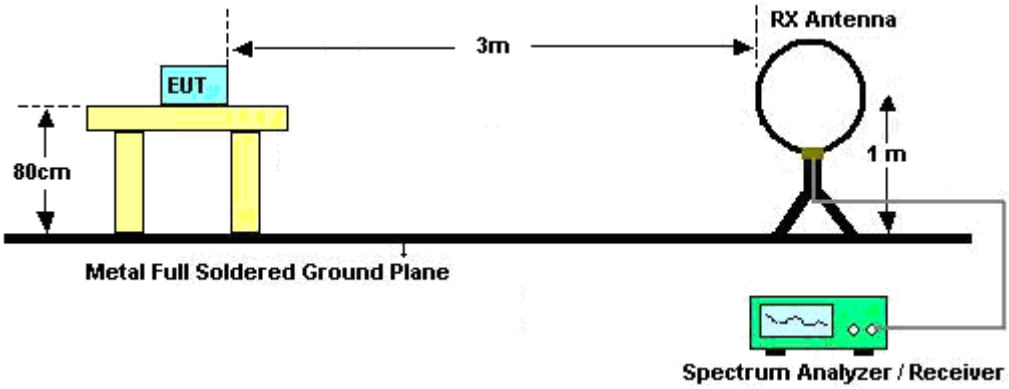
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

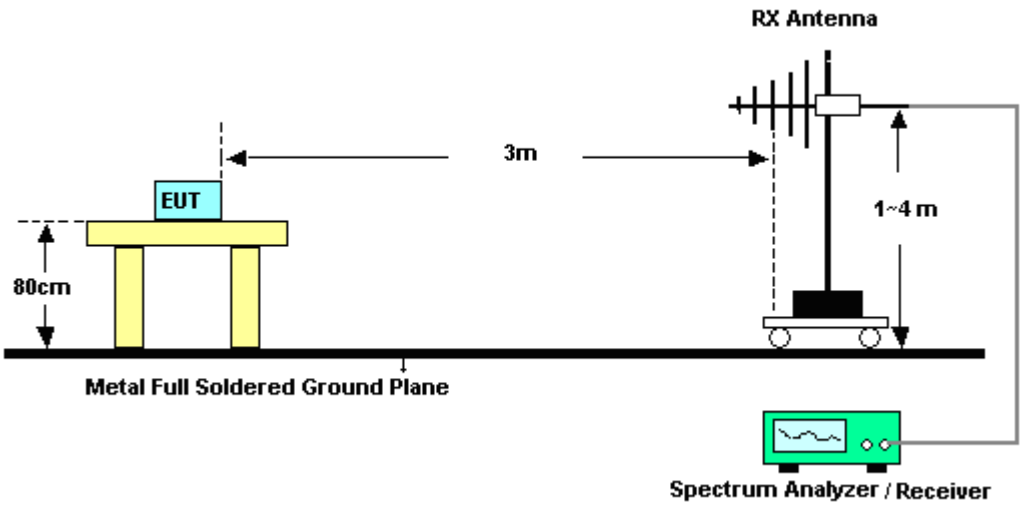
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

3.4.4 Test Setup

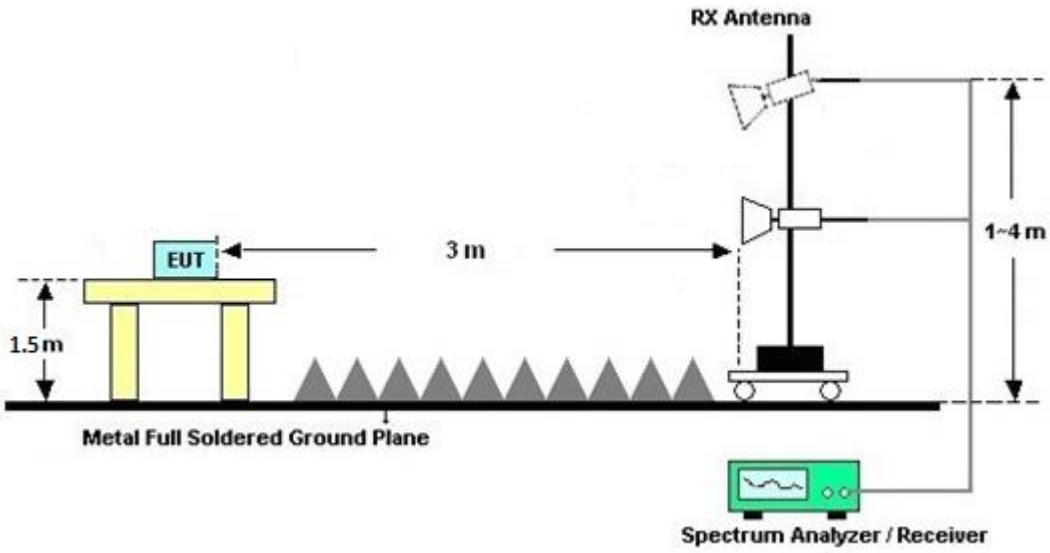
For radiated emissions below 30MHz



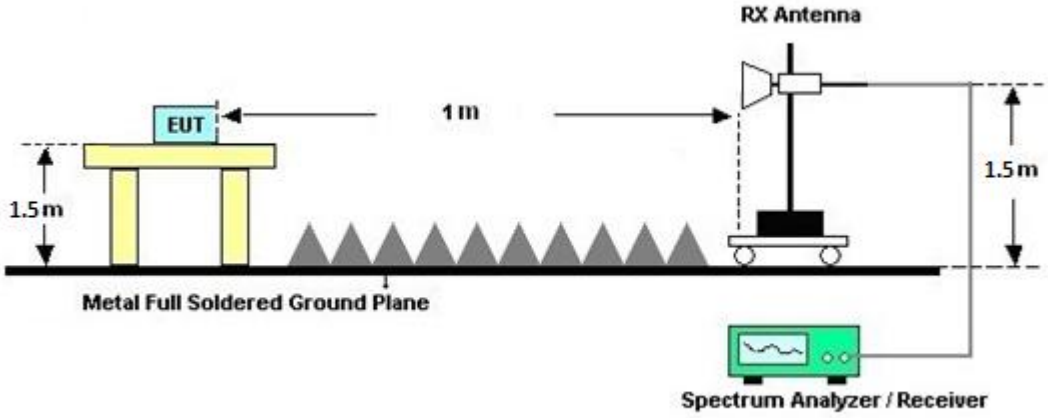
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

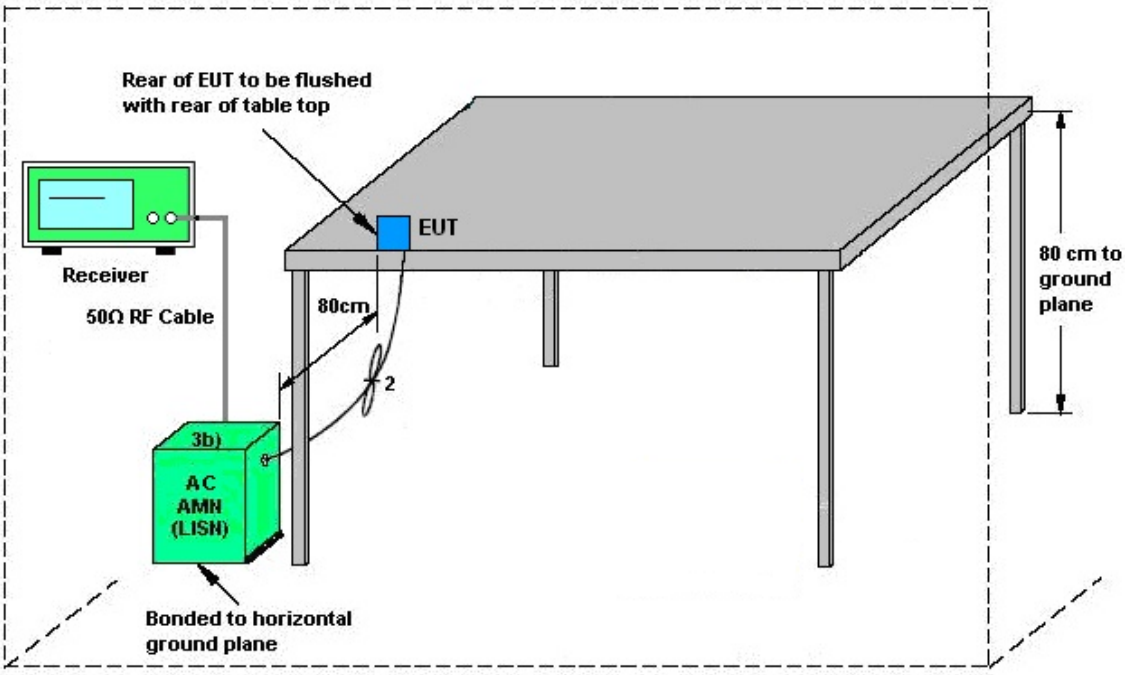
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	May 14, 2024~ Jul. 10, 2024	Sep. 11, 2024	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	May 14, 2024~ Jul. 10, 2024	Aug. 29, 2024	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	May 14, 2024~ Jul. 10, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	May 14, 2024~ Jul. 10, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz-40GHz	Nov. 24, 2023	May 14, 2024~ Jul. 10, 2024	Nov. 23, 2024	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	May 14, 2024~ Jul. 10, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 13, 2023	May 14, 2024~ Jul. 10, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 17, 2024	May 14, 2024~ Jul. 10, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	May 14, 2024~ Jul. 10, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	May 14, 2024~ Jul. 10, 2024	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	May 13, 2024~ Jun. 30, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	May 13, 2024~ Jun. 30, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300485 (BOX4)	N/A	Apr. 08, 2024	May 13, 2024~ Jun. 30, 2024	Apr. 07, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	May 13, 2024~ Jun. 30, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240411	N/A	Conducted Other Test Item	N/A	May 13, 2024~ Jun. 30, 2024	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jun. 26, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 26, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Jun. 26, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jun. 26, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jun. 26, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jun. 26, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jun. 26, 2024	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.4 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2024/5/13~2024/6/30	Relative Humidity:	51~54	%

Report Number : FR470109D

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	16.53	16.48	21.28	21.45	-		22.17		-	
11a	6Mbps	2	44	5220	16.53	16.48	21.66	19.95	-		22.17			
11a	6Mbps	2	48	5240	16.53	16.43	21.20	19.70	-		22.16			
VHT20	MCS0	2	36	5180	17.63	17.58	20.86	21.11	-		22.45			
VHT20	MCS0	2	44	5220	17.78	17.68	23.18	24.89	-		22.48			
VHT20	MCS0	2	48	5240	17.78	17.68	22.82	21.51	-		22.48			
VHT40	MCS0	2	38	5190	36.26	36.36	41.06	40.53	-		23.01			
VHT40	MCS0	2	46	5230	37.16	36.56	75.17	51.57	-		23.01			
VHT80	MCS0	2	42	5210	75.40	75.52	82.62	82.24	-		23.01			
VHT160	MCS0	2	50	5250	154.89	154.89	166.61	166.18	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	N_{TX}	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	2	36	5180	19.50	18.90	22.22	24.00		3.80		-	Pass
11a	6Mbps	2	44	5220	19.80	18.80	22.34	24.00		3.80			Pass
11a	6Mbps	2	48	5240	19.60	18.60	22.14	24.00		3.80			Pass
HT20	MCS0	2	36	5180	18.70	18.20	21.47	24.00		3.80			Pass
HT20	MCS0	2	44	5220	19.90	18.90	22.44	24.00		3.80			Pass
HT20	MCS0	2	48	5240	19.90	18.90	22.44	24.00		3.80			Pass
HT40	MCS0	2	38	5190	17.40	17.30	20.36	24.00		3.80			Pass
HT40	MCS0	2	46	5230	20.40	19.40	22.94	24.00		3.80			Pass
VHT20	MCS0	2	36	5180	18.80	18.30	21.57	24.00		3.80			Pass
VHT20	MCS0	2	44	5220	20.00	19.00	22.54	24.00		3.80			Pass
VHT20	MCS0	2	48	5240	20.00	19.00	22.54	24.00		3.80			Pass
VHT40	MCS0	2	38	5190	17.50	17.40	20.46	24.00		3.80			Pass
VHT40	MCS0	2	46	5230	20.50	19.50	23.04	24.00		3.80			Pass
VHT80	MCS0	2	42	5210	16.00	15.10	18.58	24.00		3.80			Pass
VHT160	MCS0	2	50	5250	14.50	13.70	17.13	24.00		3.80			Pass

Report Number : FR470109D

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.03	0.03			10.33	10.45		6.55			Pass
11a	6Mbps	2	44	5220	0.03	0.03			10.06	10.45		6.55			Pass
11a	6Mbps	2	48	5240	0.03	0.03			10.15	10.45		6.55			Pass
VHT20	MCS0	2	36	5180	0.00	0.00			9.50	10.45		6.55			Pass
VHT20	MCS0	2	44	5220	0.00	0.00			10.30	10.45		6.55			Pass
VHT20	MCS0	2	48	5240	0.00	0.00	-		10.43	10.45		6.55		-	Pass
VHT40	MCS0	2	38	5190	0.00	0.00			5.42	10.45		6.55			Pass
VHT40	MCS0	2	46	5230	0.00	0.00			8.29	10.45		6.55			Pass
VHT80	MCS0	2	42	5210	0.00	0.00			0.18	10.45		6.55			Pass
VHT160	MCS0	2	50	5250	0.03	0.03			-4.01	10.45		6.55			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.48	16.43	19.87	19.42	23.16		29.16		23.88		-
11a	6Mbps	2	60	5300	16.48	16.38	20.22	19.38	23.14		29.14		23.87		
11a	6Mbps	2	64	5320	16.43	16.38	19.68	19.36	23.14		29.14		23.87		
VHT20	MCS0	2	52	5260	17.68	17.58	21.17	21.14	23.45		29.45		23.98		
VHT20	MCS0	2	60	5300	17.68	17.58	21.21	21.21	23.45		29.45		23.98		
VHT20	MCS0	2	64	5320	17.58	17.58	20.78	20.50	23.45		29.45		23.98		
VHT40	MCS0	2	54	5270	37.26	36.56	75.36	41.28	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.26	36.36	40.75	40.74	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.52	75.52	83.20	81.57	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	N_{TX}	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	2	52	5260	19.20	18.30	21.78	23.88		3.99		30	Pass
11a	6Mbps	2	60	5300	19.20	18.30	21.78	23.87		3.99		30	Pass
11a	6Mbps	2	64	5320	19.00	18.50	21.77	23.87		3.99		30	Pass
HT20	MCS0	2	52	5260	19.70	18.80	22.28	23.98		3.99		30	Pass
HT20	MCS0	2	60	5300	19.70	18.80	22.28	23.98		3.99		30	Pass
HT20	MCS0	2	64	5320	18.90	18.40	21.67	23.98		3.99		30	Pass
HT40	MCS0	2	54	5270	20.40	19.40	22.94	23.98		3.99		30	Pass
HT40	MCS0	2	62	5310	17.00	16.70	19.86	23.98		3.99		30	Pass
VHT20	MCS0	2	52	5260	19.80	18.90	22.38	23.98		3.99		30	Pass
VHT20	MCS0	2	60	5300	19.80	18.90	22.38	23.98		3.99		30	Pass
VHT20	MCS0	2	64	5320	19.00	18.50	21.77	23.98		3.99		30	Pass
VHT40	MCS0	2	54	5270	20.50	19.50	23.04	23.98		3.99		30	Pass
VHT40	MCS0	2	62	5310	17.10	16.80	19.96	23.98		3.99		30	Pass
VHT80	MCS0	2	58	5290	16.20	15.50	18.87	23.98		3.99		30	Pass

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TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)				Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	52	5260	0.03	0.03			9.75	10.09		6.91				Pass
11a	6Mbps	2	60	5300	0.03	0.03			9.65	10.09		6.91				Pass
11a	6Mbps	2	64	5320	0.03	0.03			9.76	10.09		6.91				Pass
VHT20	MCS0	2	52	5260	0.00	0.00			10.06	10.09		6.91				Pass
VHT20	MCS0	2	60	5300	0.00	0.00	-		9.97	10.09		6.91		-		Pass
VHT20	MCS0	2	64	5320	0.00	0.00			9.66	10.09		6.91				Pass
VHT40	MCS0	2	54	5270	0.00	0.00			8.32	10.09		6.91				Pass
VHT40	MCS0	2	62	5310	0.00	0.00			5.04	10.09		6.91				Pass
VHT80	MCS0	2	58	5290	0.00	0.00			0.53	10.09		6.91				Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.48	16.38	20.12	19.46	23.14		29.14		23.89		----	----
11a	6Mbps	2	116	5580	16.48	16.38	19.90	19.54	23.14		29.14		23.91		----	----
11a	6Mbps	2	140	5700	16.43	16.38	19.51	19.14	23.14		29.14		23.82		----	----
VHT20	MCS0	2	100	5500	17.58	17.58	20.91	20.90	23.45		29.45		23.98		----	----
VHT20	MCS0	2	116	5580	17.63	17.58	20.95	20.62	23.45		29.45		23.98		----	----
VHT20	MCS0	2	140	5700	17.58	17.58	21.02	20.82	23.45		29.45		23.98		----	----
VHT40	MCS0	2	102	5510	36.26	36.26	40.94	40.58	23.98		30.00		23.98		----	----
VHT40	MCS0	2	110	5550	36.66	36.36	64.16	43.79	23.98		30.00		23.98		----	----
VHT40	MCS0	2	134	5670	36.46	36.36	48.48	40.85	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	75.40	75.52	82.24	82.02	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	75.52	75.52	83.49	82.30	23.98		30.00		23.98		----	----
VHT160	MCS0	2	114	5570	154.89	154.89	165.89	166.03	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	13.29	13.19	14.86	14.65	22.20		28.20		22.66		3.145	3.16
VHT20	MCS0	2	144	5720	13.84	13.79	15.50	15.46	22.40		28.40		22.89		3.505	3.785
VHT40	MCS0	2	142	5710	33.18	33.18	36.65	35.34	23.98		30.00		23.98		3.144	3.135
VHT80	MCS0	2	138	5690	72.88	72.76	76.41	75.77	23.98		30.00		23.98		2.568	2.552
6dB Bandwidth Limit ≧ 500kHz															Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	N_{TX}	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	2	100	5500	19.30	18.80	22.07	23.89		3.99		30	Pass
11a	6Mbps	2	116	5580	18.60	18.70	21.66	23.91		3.99		30	Pass
11a	6Mbps	2	140	5700	19.20	18.20	21.74	23.82		3.99		30	Pass
HT20	MCS0	2	100	5500	19.00	18.60	21.81	23.98		3.99		30	Pass
HT20	MCS0	2	116	5580	19.50	19.40	22.46	23.98		3.99		30	Pass
HT20	MCS0	2	140	5700	19.00	18.00	21.54	23.98		3.99		30	Pass
HT40	MCS0	2	102	5510	18.40	18.00	21.21	23.98		3.99		30	Pass
HT40	MCS0	2	110	5550	20.60	20.40	23.51	23.98		3.99		30	Pass
HT40	MCS0	2	134	5670	19.80	19.20	22.52	23.98		3.99		30	Pass
VHT20	MCS0	2	100	5500	19.10	18.70	21.91	23.98		3.99		30	Pass
VHT20	MCS0	2	116	5580	19.60	19.50	22.56	23.98		3.99		30	Pass
VHT20	MCS0	2	140	5700	19.10	18.10	21.64	23.98		3.99		30	Pass
VHT40	MCS0	2	102	5510	18.50	18.10	21.31	23.98		3.99		30	Pass
VHT40	MCS0	2	110	5550	20.70	20.50	23.61	23.98		3.99		30	Pass
VHT40	MCS0	2	134	5670	19.90	19.30	22.62	23.98		3.99		30	Pass
VHT80	MCS0	2	106	5530	14.70	14.30	17.51	23.98		3.99		30	Pass
VHT80	MCS0	2	122	5610	19.70	19.50	22.61	23.98		3.99		30	Pass
VHT160	MCS0	2	114	5570	14.40	14.90	17.67	23.98		3.99		30	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N_{TX}	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	2	144	5720	19.30	18.30	21.84	22.66		3.99		30	Pass
HT20	MCS0	2	144	5720	20.00	19.00	22.54	23.98		3.99		30	Pass
HT40	MCS0	2	142	5710	20.40	19.40	22.94	23.98		3.99		30	Pass
VHT20	MCS0	2	144	5720	20.10	19.10	22.64	22.89		3.99		30	Pass
VHT40	MCS0	2	142	5710	20.50	19.50	23.04	23.98		3.99		30	Pass
VHT80	MCS0	2	138	5690	19.60	18.60	22.14	23.98		3.99		30	Pass

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TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.03	0.03	-		9.66	10.06		6.94		-	Pass
11a	6Mbps	2	116	5580	0.03	0.03			9.58	10.06		6.94			Pass
11a	6Mbps	2	140	5700	0.03	0.03			9.50	10.06		6.94			Pass
VHT20	MCS0	2	100	5500	0.00	0.00			9.56	10.06		6.94			Pass
VHT20	MCS0	2	116	5580	0.00	0.00			9.97	10.06		6.94			Pass
VHT20	MCS0	2	140	5700	0.00	0.00			9.43	10.06		6.94			Pass
VHT40	MCS0	2	102	5510	0.00	0.00			6.15	10.06		6.94			Pass
VHT40	MCS0	2	110	5550	0.00	0.00			8.34	10.06		6.94			Pass
VHT40	MCS0	2	134	5670	0.00	0.00			7.56	10.06		6.94			Pass
VHT80	MCS0	2	106	5530	0.00	0.00			-1.30	10.06		6.94			Pass
VHT80	MCS0	2	122	5610	0.00	0.00			4.21	10.06		6.94			Pass
VHT160	MCS0	2	114	5570	0.03	0.03			-3.78	10.06		6.94			Pass

U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	0.03	0.03	-		9.58	10.06		6.94		-	Pass
VHT20	MCS0	2	144	5720	0.00	0.00			9.98	10.06		6.94			Pass
VHT40	MCS0	2	142	5710	0.00	0.00			8.10	10.06		6.94			Pass
VHT80	MCS0	2	138	5690	0.00	0.00			3.87	10.06		6.94			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	36	5180	Full	18.98	18.98	21.59	21.72	-		22.78		-	-
HE20	MCS0	2	44	5220	Full	19.08	19.08	27.90	23.09	-		22.81			
HE20	MCS0	2	48	5240	Full	19.08	18.98	25.75	26.28	-		22.78			
HE40	MCS0	2	38	5190	Full	37.96	37.96	41.70	41.68	-		23.01			
HE40	MCS0	2	46	5230	Full	38.56	38.16	68.02	46.06	-		23.01			
HE80	MCS0	2	42	5210	Full	77.20	77.32	82.21	82.88	-		23.01			
HE160	MCS0	2	50	5250	Full	156.32	156.56	165.98	165.89	-		23.01			

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TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO														
Mod.	Data Rate	N_{TX}	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	2	36	5180	Full	18.90	18.40	21.67	24.00		3.80		-	Pass
HE20	MCS0	2	36	5180	26/0	9.20	9.30	12.26	24.00		3.80			Pass
HE20	MCS0	2	36	5180	52/37	11.80	11.90	14.86	24.00		3.80			Pass
HE20	MCS0	2	36	5180	106/53	14.60	15.00	17.81	24.00		3.80			Pass
HE20	MCS0	2	44	5220	Full	20.10	19.10	22.64	24.00		3.80			Pass
HE20	MCS0	2	44	5220	26/4	11.80	10.80	14.34	24.00		3.80			Pass
HE20	MCS0	2	44	5220	52/38	13.40	12.60	16.03	24.00		3.80			Pass
HE20	MCS0	2	44	5220	106/53	16.70	16.00	19.37	24.00		3.80			Pass
HE20	MCS0	2	48	5240	Full	20.10	19.10	22.64	24.00		3.80			Pass
HE20	MCS0	2	48	5240	26/8	10.10	9.40	12.77	24.00		3.80			Pass
HE20	MCS0	2	48	5240	52/40	12.90	12.30	15.62	24.00		3.80			Pass
HE20	MCS0	2	48	5240	106/54	16.10	15.40	18.77	24.00		3.80			Pass
HE40	MCS0	2	38	5190	Full	17.60	17.50	20.56	24.00		3.80			Pass
HE40	MCS0	2	38	5190	242/61	15.00	14.90	17.96	24.00		3.80			Pass
HE40	MCS0	2	46	5230	Full	20.60	19.60	23.14	24.00		3.80			Pass
HE40	MCS0	2	46	5230	242/62	17.60	16.90	20.27	24.00		3.80			Pass
HE80	MCS0	2	42	5210	Full	16.10	15.20	18.68	24.00		3.80			Pass
HE80	MCS0	2	42	5210	484/65	13.50	12.60	16.08	24.00		3.80			Pass
HE160	MCS0	2	50	5250	Full	14.60	13.80	17.23	24.00		3.80			Pass
HE160	MCS0	2	50	5250	996/67	12.60	11.70	15.18	24.00		3.80			Pass

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TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	36	5180	Full	0.00	0.00			9.02	10.45		6.55			Pass
HE20	MCS0	2	36	5180	26/0	0.35	0.20			8.76	10.45		6.55			Pass
HE20	MCS0	2	36	5180	52/37	0.33	0.34			8.62	10.45		6.55			Pass
HE20	MCS0	2	36	5180	106/53	0.39	0.37			8.67	10.45		6.55			Pass
HE20	MCS0	2	44	5220	Full	0.00	0.00			9.96	10.45		6.55			Pass
HE20	MCS0	2	44	5220	26/4	0.35	0.20			9.74	10.45		6.55			Pass
HE20	MCS0	2	44	5220	52/38	0.33	0.34			9.66	10.45		6.55			Pass
HE20	MCS0	2	44	5220	106/53	0.39	0.37			9.95	10.45		6.55			Pass
HE20	MCS0	2	48	5240	Full	0.00	0.00			9.96	10.45		6.55			Pass
HE20	MCS0	2	48	5240	26/8	0.35	0.20		-	9.52	10.45		6.55		-	Pass
HE20	MCS0	2	48	5240	52/40	0.33	0.34			9.61	10.45		6.55			Pass
HE20	MCS0	2	48	5240	106/54	0.39	0.37			9.72	10.45		6.55			Pass
HE40	MCS0	2	38	5190	Full	0.00	0.00			4.98	10.45		6.55			Pass
HE40	MCS0	2	38	5190	242/61	0.00	0.00			4.90	10.45		6.55			Pass
HE40	MCS0	2	46	5230	Full	0.00	0.00			7.54	10.45		6.55			Pass
HE40	MCS0	2	46	5230	242/62	0.00	0.00			7.39	10.45		6.55			Pass
HE80	MCS0	2	42	5210	Full	0.03	0.03			0.33	10.45		6.55			Pass
HE80	MCS0	2	42	5210	484/65	0.04	0.04			-0.09	10.45		6.55			Pass
HE160	MCS0	2	50	5250	Full	0.04	0.04			-3.92	10.45		6.55			Pass
HE160	MCS0	2	50	5250	996/67	0.10	0.10			-3.93	10.45		6.55			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	19.08	18.98	25.32	27.18	23.78		29.78		23.98		
HE20	MCS0	2	60	5300	Full	19.08	18.98	28.26	22.14	23.78		29.78		23.98		
HE20	MCS0	2	64	5320	Full	18.98	18.98	21.66	21.58	23.78		29.78		23.98		
HE40	MCS0	2	54	5270	Full	38.36	38.16	70.94	52.26	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.96	37.96	41.34	41.71	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.32	77.20	82.37	82.62	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	N_{TX}	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	2	52	5260	Full	19.90	19.00	22.48	23.98		3.99		30	Pass
HE20	MCS0	2	52	5260	26/0	10.50	9.60	13.08	23.98		3.99		30	Pass
HE20	MCS0	2	52	5260	52/37	12.90	12.20	15.57	23.98		3.99		30	Pass
HE20	MCS0	2	52	5260	106/53	16.20	15.50	18.87	23.98		3.99		30	Pass
HE20	MCS0	2	60	5300	Full	19.90	19.00	22.48	23.98		3.99		30	Pass
HE20	MCS0	2	60	5300	26/4	11.40	10.70	14.07	23.98		3.99		30	Pass
HE20	MCS0	2	60	5300	52/38	12.90	12.40	15.67	23.98		3.99		30	Pass
HE20	MCS0	2	60	5300	106/53	16.10	15.50	18.82	23.98		3.99		30	Pass
HE20	MCS0	2	64	5320	Full	19.10	18.60	21.87	23.98		3.99		30	Pass
HE20	MCS0	2	64	5320	26/8	9.30	8.70	12.02	23.98		3.99		30	Pass
HE20	MCS0	2	64	5320	52/40	12.20	11.70	14.97	23.98		3.99		30	Pass
HE20	MCS0	2	64	5320	106/54	15.10	14.70	17.91	23.98		3.99		30	Pass
HE40	MCS0	2	54	5270	Full	20.60	19.60	23.14	23.98		3.99		30	Pass
HE40	MCS0	2	54	5270	242/61	17.60	16.90	20.27	23.98		3.99		30	Pass
HE40	MCS0	2	62	5310	Full	17.20	16.90	20.06	23.98		3.99		30	Pass
HE40	MCS0	2	62	5310	242/62	14.90	14.90	17.91	23.98		3.99		30	Pass
HE80	MCS0	2	58	5290	Full	16.30	15.60	18.97	23.98		3.99		30	Pass
HE80	MCS0	2	58	5290	484/66	13.70	12.80	16.28	23.98		3.99		30	Pass
HE160	MCS0	2	50	5250	996/S67	11.40	10.50	13.98	23.98		3.99		30	Pass

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TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	0.00	0.00			9.87	10.09		6.91			Pass
HE20	MCS0	2	52	5260	26/0	0.35	0.20			9.78	10.09		6.91			Pass
HE20	MCS0	2	52	5260	52/37	0.33	0.34			9.41	10.09		6.91			Pass
HE20	MCS0	2	52	5260	106/53	0.39	0.37			9.85	10.09		6.91			Pass
HE20	MCS0	2	60	5300	Full	0.00	0.00			9.74	10.09		6.91			Pass
HE20	MCS0	2	60	5300	26/4	0.35	0.20			9.58	10.09		6.91			Pass
HE20	MCS0	2	60	5300	52/38	0.33	0.34			9.43	10.09		6.91			Pass
HE20	MCS0	2	60	5300	106/53	0.39	0.37			9.67	10.09		6.91			Pass
HE20	MCS0	2	64	5320	Full	0.00	0.00			9.17	10.09		6.91			Pass
HE20	MCS0	2	64	5320	26/8	0.35	0.20	-		8.71	10.09		6.91		-	Pass
HE20	MCS0	2	64	5320	52/40	0.33	0.34			8.93	10.09		6.91			Pass
HE20	MCS0	2	64	5320	106/54	0.39	0.37			8.86	10.09		6.91			Pass
HE40	MCS0	2	54	5270	Full	0.00	0.00			7.62	10.09		6.91			Pass
HE40	MCS0	2	54	5270	242/61	0.00	0.00			7.29	10.09		6.91			Pass
HE40	MCS0	2	62	5310	Full	0.00	0.00			4.92	10.09		6.91			Pass
HE40	MCS0	2	62	5310	242/62	0.00	0.00			4.89	10.09		6.91			Pass
HE80	MCS0	2	58	5290	Full	0.03	0.03			0.68	10.09		6.91			Pass
HE80	MCS0	2	58	5290	484/66	0.04	0.04			0.30	10.09		6.91			Pass
HE160	MCS0	2	50	5250	996/S67	0.10	0.10			-4.56	10.09		6.91			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	18.93	18.93	21.49	21.25	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	19.03	18.93	23.38	21.55	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.98	18.88	21.12	21.15	23.76		29.76		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.96	37.96	41.63	41.63	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	38.36	38.16	57.25	43.10	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.16	37.96	57.07	41.94	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.32	77.20	82.56	82.43	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.32	77.20	83.01	82.91	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	156.56	156.32	164.88	165.46	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	144	5720	Full	14.54	14.49	16.80	15.74	22.61		28.61		22.97		4.36	4.405
HE40	MCS0	2	142	5710	Full	34.08	33.98	35.99	35.94	23.98		30.00		23.98		3.828	3.954
HE80	MCS0	2	138	5690	Full	73.72	73.60	76.28	76.44	23.98		30.00		23.98		3.848	3.768
6dB Bandwidth Limit ≧ 500kHz																Pass	

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TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	N_{TX}	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	2	100	5500	Full	19.20	18.80	22.01	23.98		3.99		30	Pass
HE20	MCS0	2	100	5500	26/0	9.70	9.20	12.47	23.98		3.99		30	Pass
HE20	MCS0	2	100	5500	52/37	12.50	12.20	15.36	23.98		3.99		30	Pass
HE20	MCS0	2	100	5500	106/53	15.40	15.10	18.26	23.98		3.99		30	Pass
HE20	MCS0	2	116	5580	Full	19.70	19.60	22.66	23.98		3.99		30	Pass
HE20	MCS0	2	116	5580	26/4	10.80	11.40	14.12	23.98		3.99		30	Pass
HE20	MCS0	2	116	5580	52/38	12.40	13.40	15.94	23.98		3.99		30	Pass
HE20	MCS0	2	116	5580	106/53	15.10	16.00	18.58	23.98		3.99		30	Pass
HE20	MCS0	2	140	5700	Full	19.20	18.20	21.74	23.98		3.99		30	Pass
HE20	MCS0	2	140	5700	26/8	9.40	8.70	12.07	23.98		3.99		30	Pass
HE20	MCS0	2	140	5700	52/40	12.40	11.60	15.03	23.98		3.99		30	Pass
HE20	MCS0	2	140	5700	106/54	15.30	14.60	17.97	23.98		3.99		30	Pass
HE40	MCS0	2	102	5510	Full	18.60	18.20	21.41	23.98		3.99		30	Pass
HE40	MCS0	2	102	5510	242/61	14.50	14.30	17.41	23.98		3.99		30	Pass
HE40	MCS0	2	110	5550	Full	20.80	20.60	23.71	23.98		3.99		30	Pass
HE40	MCS0	2	110	5550	242/61	18.20	18.20	21.21	23.98		3.99		30	Pass
HE40	MCS0	2	134	5670	Full	20.00	19.40	22.72	23.98		3.99		30	Pass
HE40	MCS0	2	134	5670	242/62	15.70	15.30	18.51	23.98		3.99		30	Pass
HE80	MCS0	2	106	5530	Full	14.80	14.40	17.61	23.98		3.99		30	Pass
HE80	MCS0	2	106	5530	484/65	12.30	12.00	15.16	23.98		3.99		30	Pass
HE80	MCS0	2	122	5610	Full	19.80	19.60	22.71	23.98		3.99		30	Pass
HE80	MCS0	2	122	5610	484/66	16.70	16.80	19.76	23.98		3.99		30	Pass
HE160	MCS0	2	114	5570	Full	14.50	15.00	17.77	23.98		3.99		30	Pass
HE160	MCS0	2	114	5570	996/67	11.20	11.00	14.11	23.98		3.99		30	Pass
HE160	MCS0	2	114	5570	996/S67	11.90	12.30	15.11	23.98		3.99		30	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N_{TX}	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	2	144	5720	Full	20.20	19.20	22.74	22.97		3.99		30	Pass
HE20	MCS0	2	144	5720	26/8	10.30	9.80	13.07	22.97		3.99		30	Pass
HE20	MCS0	2	144	5720	52/40	13.20	12.50	15.87	22.97		3.99		30	Pass
HE20	MCS0	2	144	5720	106/54	16.30	15.50	18.93	22.97		3.99		30	Pass
HE40	MCS0	2	142	5710	Full	20.60	19.60	23.14	23.98		3.99		30	Pass
HE40	MCS0	2	142	5710	242/62	17.30	16.40	19.88	23.98		3.99		30	Pass
HE80	MCS0	2	138	5690	Full	19.70	18.70	22.24	23.98		3.99		30	Pass
HE80	MCS0	2	138	5690	484/66	16.20	15.30	18.78	23.98		3.99		30	Pass

TEST RESULTS DATA
Power Spectral Density

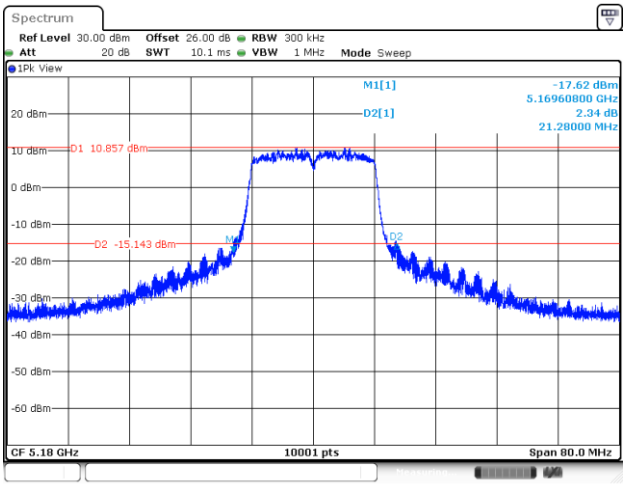
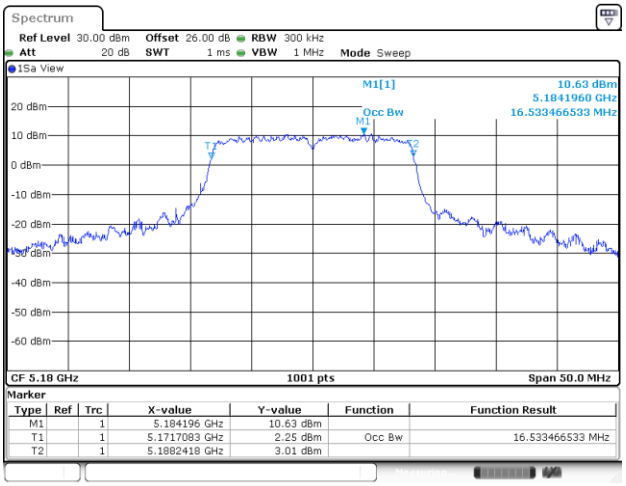
U-NII-2C MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	0.00	0.00			9.07	10.06		6.94			Pass
HE20	MCS0	2	100	5500	26/0	0.35	0.20			8.87	10.06		6.94			Pass
HE20	MCS0	2	100	5500	52/37	0.33	0.34			9.03	10.06		6.94			Pass
HE20	MCS0	2	100	5500	106/53	0.39	0.37			8.99	10.06		6.94			Pass
HE20	MCS0	2	116	5580	Full	0.00	0.00			9.90	10.06		6.94			Pass
HE20	MCS0	2	116	5580	26/4	0.35	0.20			9.77	10.06		6.94			Pass
HE20	MCS0	2	116	5580	52/38	0.33	0.34			9.79	10.06		6.94			Pass
HE20	MCS0	2	116	5580	106/53	0.39	0.37			9.61	10.06		6.94			Pass
HE20	MCS0	2	140	5700	Full	0.00	0.00			8.88	10.06		6.94			Pass
HE20	MCS0	2	140	5700	26/8	0.35	0.20			8.47	10.06		6.94			Pass
HE20	MCS0	2	140	5700	52/40	0.33	0.34			8.61	10.06		6.94			Pass
HE20	MCS0	2	140	5700	106/54	0.39	0.37			8.67	10.06		6.94			Pass
HE40	MCS0	2	102	5510	Full	0.00	0.00	-		5.42	10.06		6.94		-	Pass
HE40	MCS0	2	102	5510	242/61	0.00	0.00			4.06	10.06		6.94			Pass
HE40	MCS0	2	110	5550	Full	0.00	0.00			7.65	10.06		6.94			Pass
HE40	MCS0	2	110	5550	242/61	0.00	0.00			7.61	10.06		6.94			Pass
HE40	MCS0	2	134	5670	Full	0.00	0.00			6.80	10.06		6.94			Pass
HE40	MCS0	2	134	5670	242/62	0.00	0.00			5.41	10.06		6.94			Pass
HE80	MCS0	2	106	5530	Full	0.03	0.03			-1.11	10.06		6.94			Pass
HE80	MCS0	2	106	5530	484/65	0.04	0.04			-1.27	10.06		6.94			Pass
HE80	MCS0	2	122	5610	Full	0.03	0.03			3.85	10.06		6.94			Pass
HE80	MCS0	2	122	5610	484/66	0.04	0.04			3.72	10.06		6.94			Pass
HE160	MCS0	2	114	5570	Full	0.04	0.04			-3.58	10.06		6.94			Pass
HE160	MCS0	2	114	5570	996/67	0.10	0.10			-5.33	10.06		6.94			Pass
HE160	MCS0	2	114	5570	996/S67	0.10	0.10			-4.01	10.06		6.94			Pass

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	0.00	0.00			9.93	10.06		6.94			Pass
HE20	MCS0	2	144	5720	26/8	0.35	0.20			9.46	10.06		6.94			Pass
HE20	MCS0	2	144	5720	52/40	0.33	0.34			9.63	10.06		6.94			Pass
HE20	MCS0	2	144	5720	106/54	0.39	0.37			9.70	10.06		6.94			Pass
HE40	MCS0	2	142	5710	Full	0.00	0.00	-		7.33	10.06		6.94		-	Pass
HE40	MCS0	2	142	5710	242/62	0.00	0.00			6.92	10.06		6.94			Pass
HE80	MCS0	2	138	5690	Full	0.03	0.03			3.45	10.06		6.94			Pass
HE80	MCS0	2	138	5690	484/66	0.04	0.04			2.98	10.06		6.94			Pass

Test Result of 26dB & 99% Occupied Bandwidth

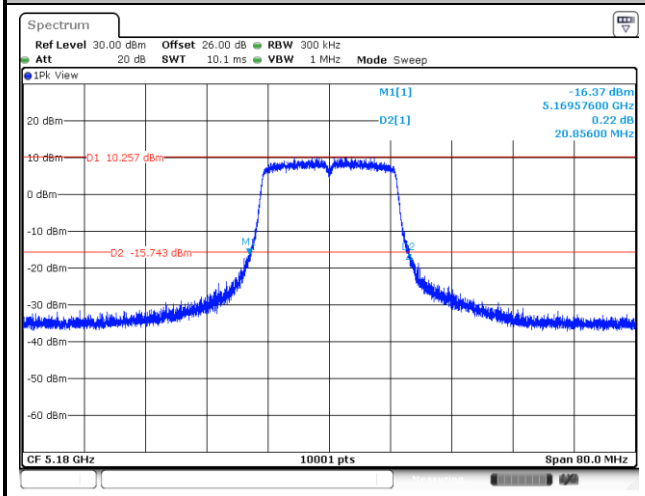
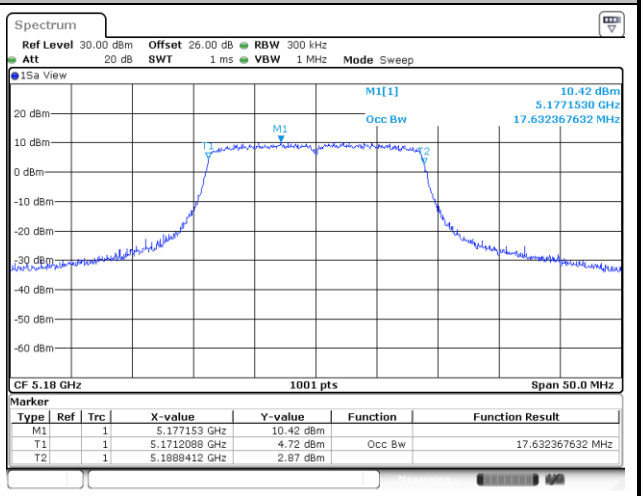
MIMO <Ant. 1+2>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

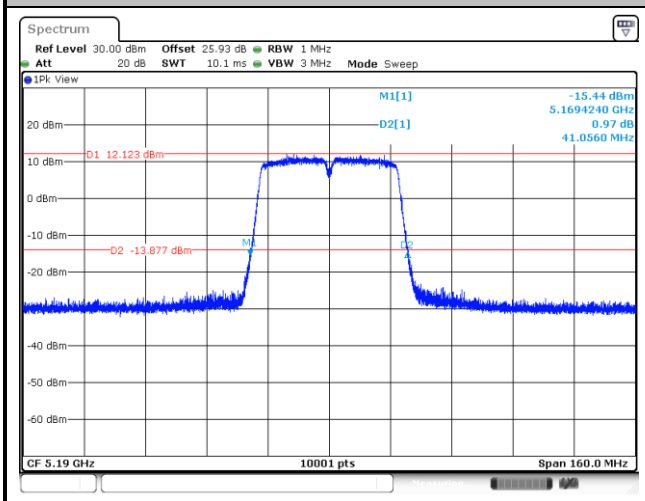
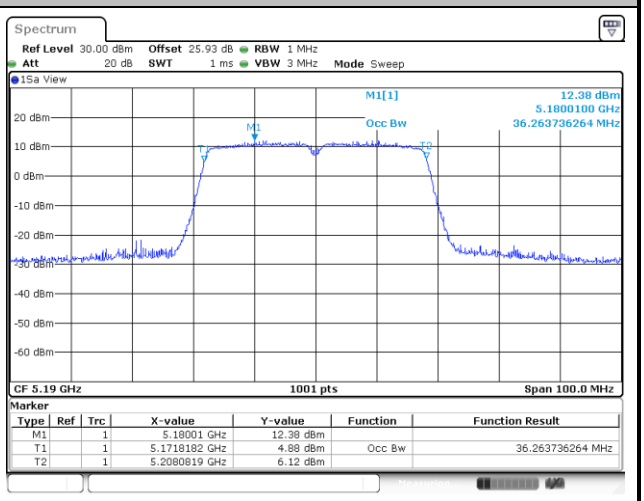
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT20>

26dB Bandwidth	99% Occupied Bandwidth
	

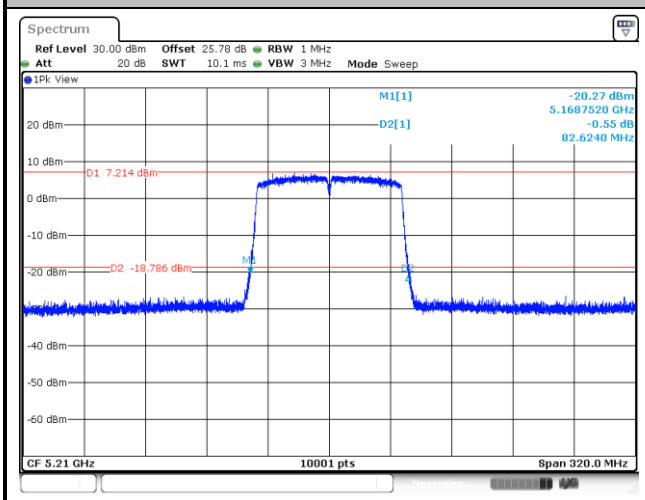
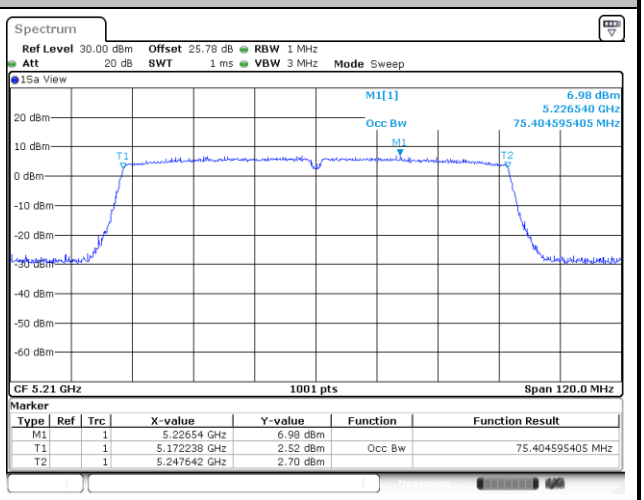
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT40>

26dB Bandwidth	99% Occupied Bandwidth
	

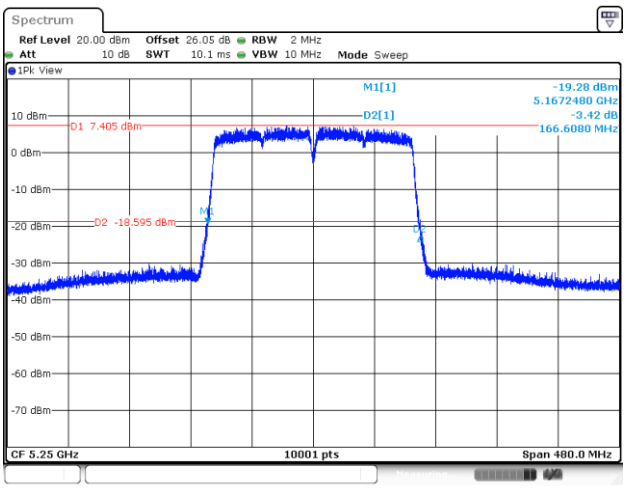
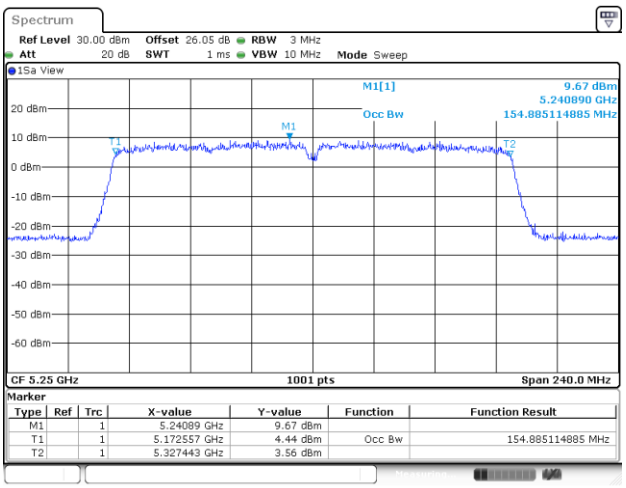
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	

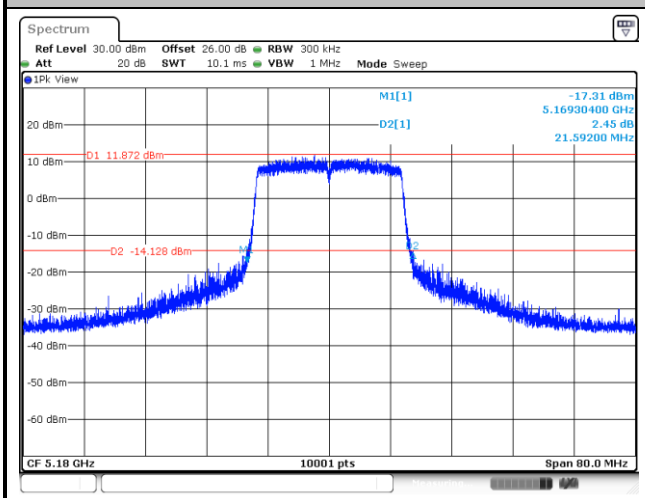
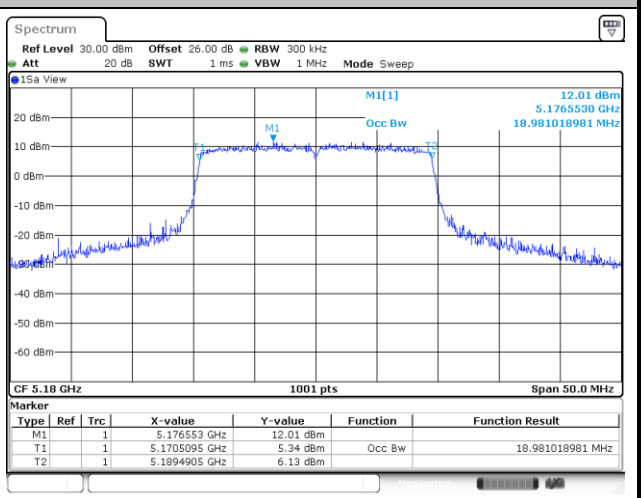
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

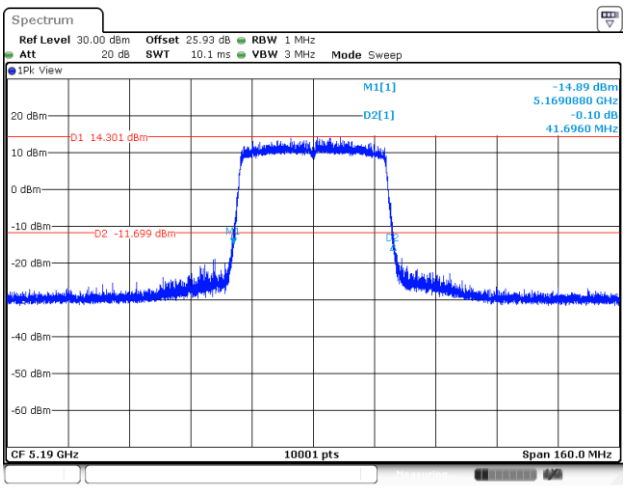
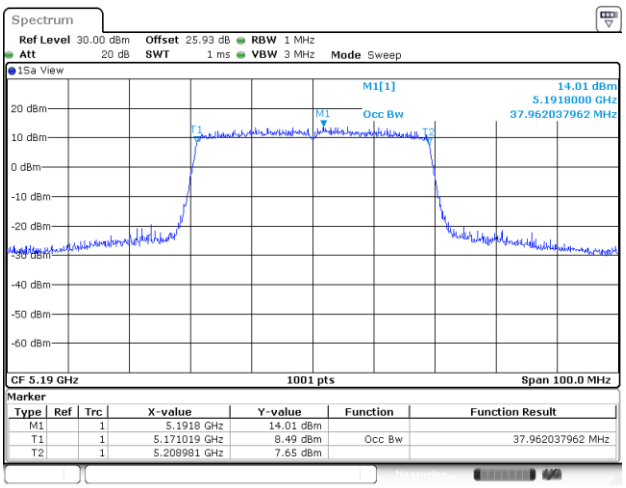
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

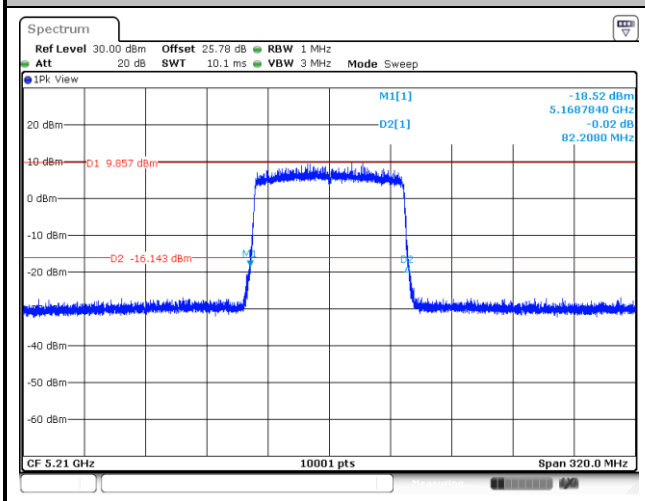
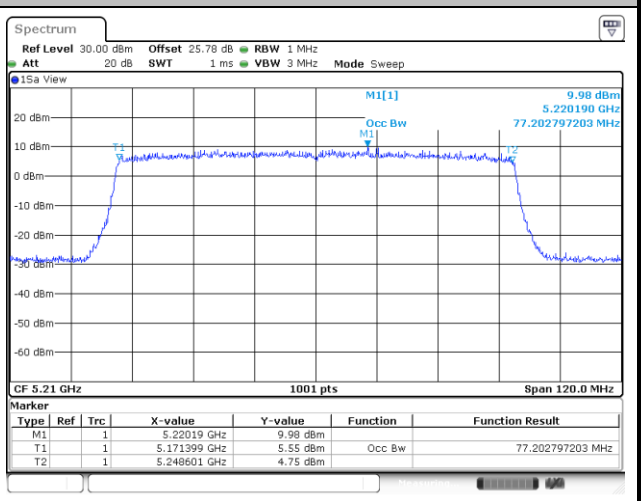
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

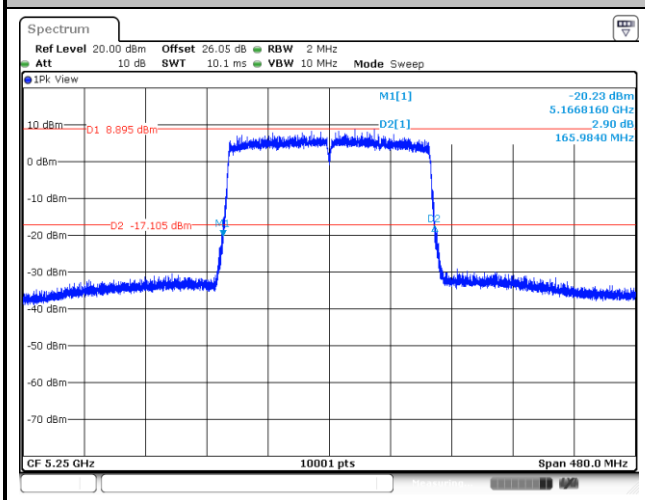
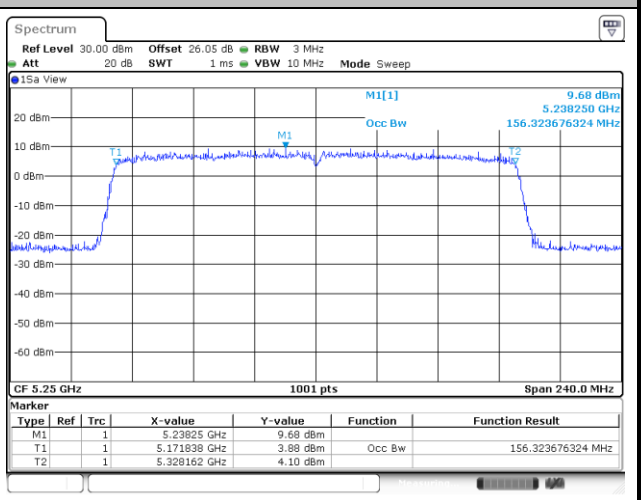
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ax HE160>

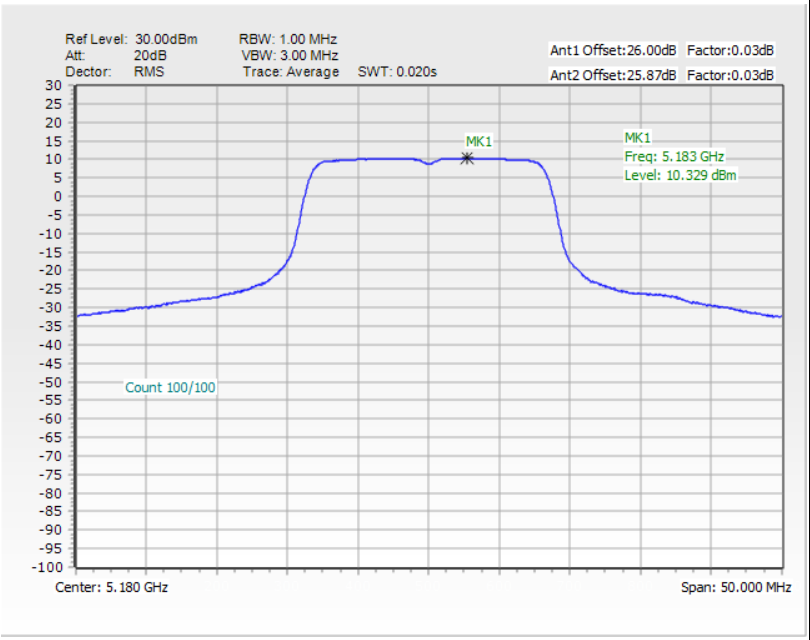
26dB Bandwidth	99% Occupied Bandwidth
	

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

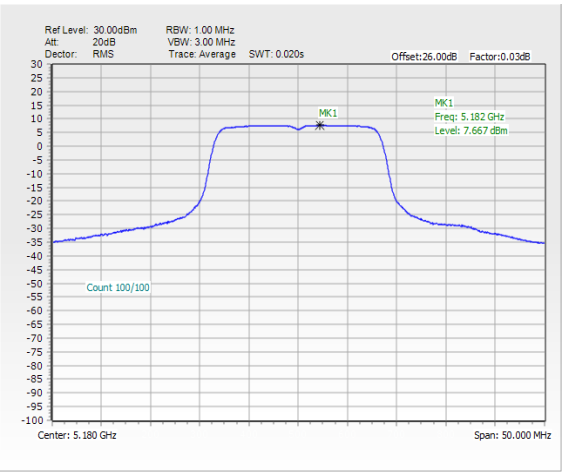
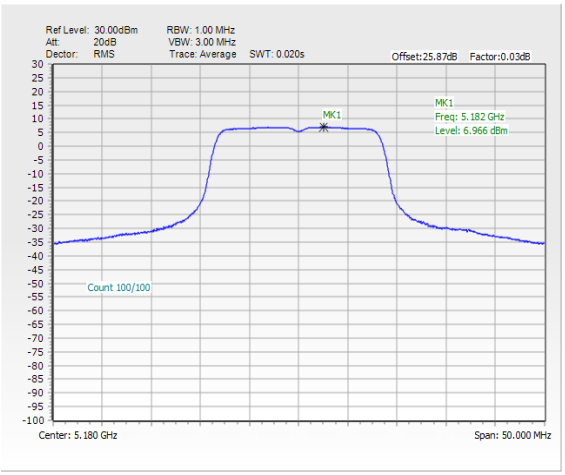
Test Result of Power Spectral Density

<802.11a>

Maximum Power Density Plot (dBm/MHz)

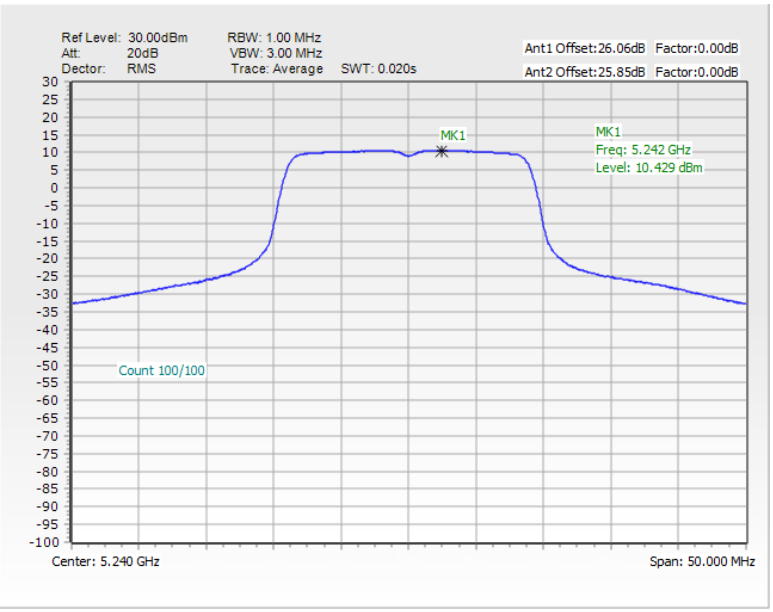


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

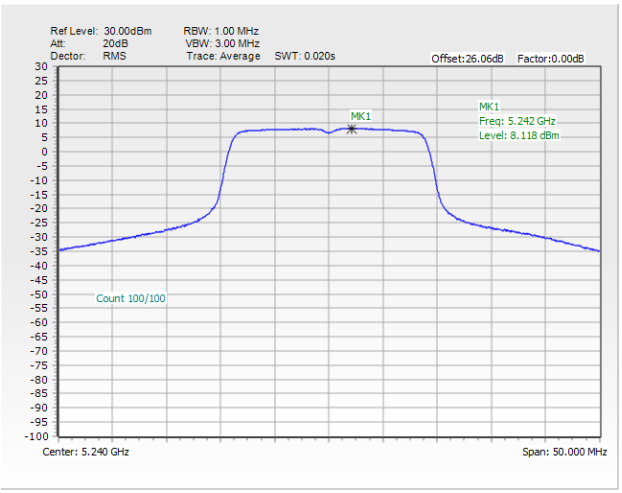
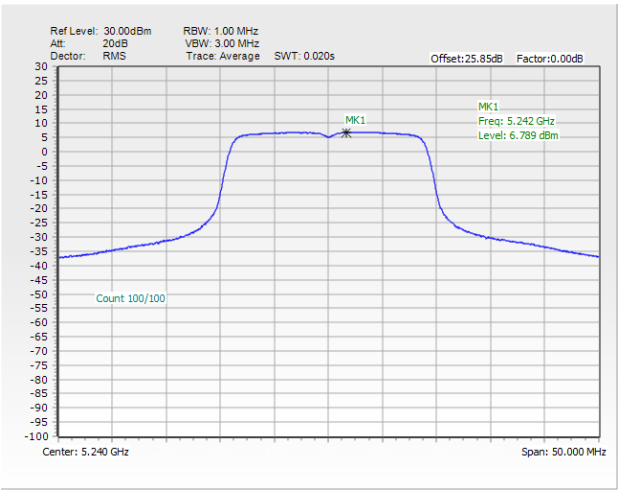
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	

<802.11ac VHT20>

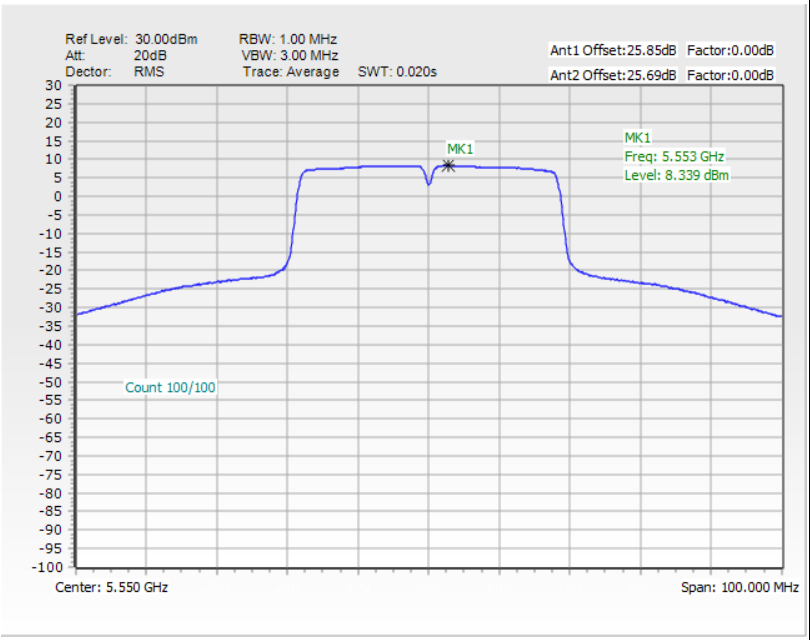
Maximum Power Density Plot (dBm/MHz)



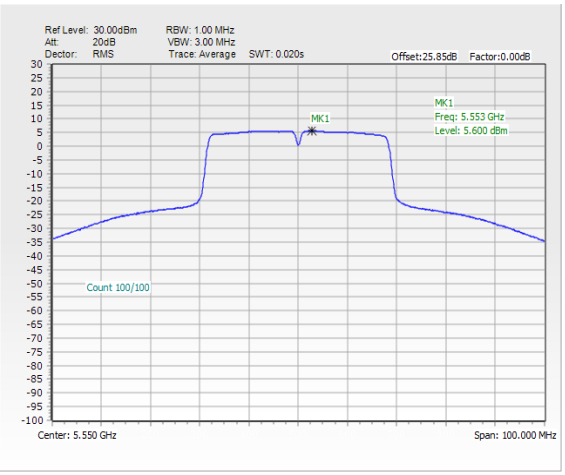
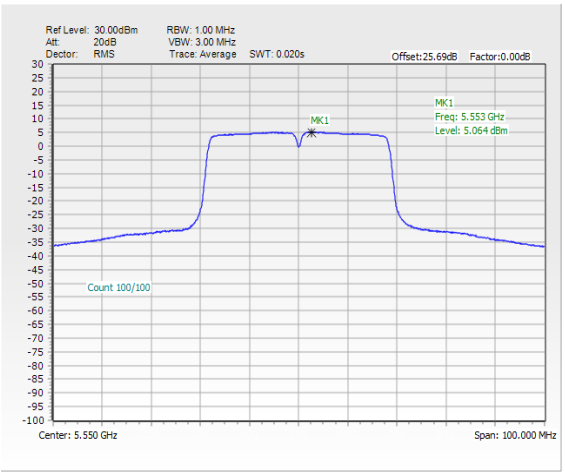
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

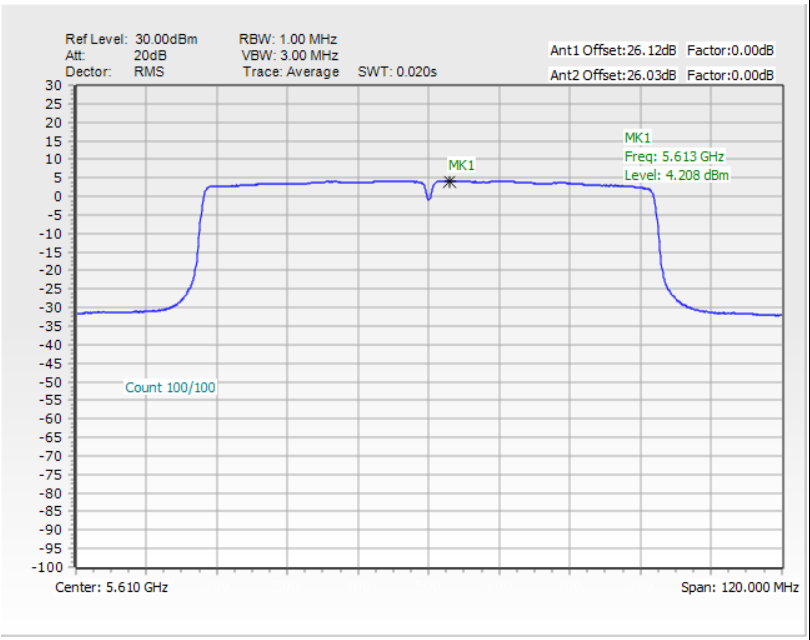
<802.11ac VHT40>

Maximum Power Density Plot (dBm/MHz)


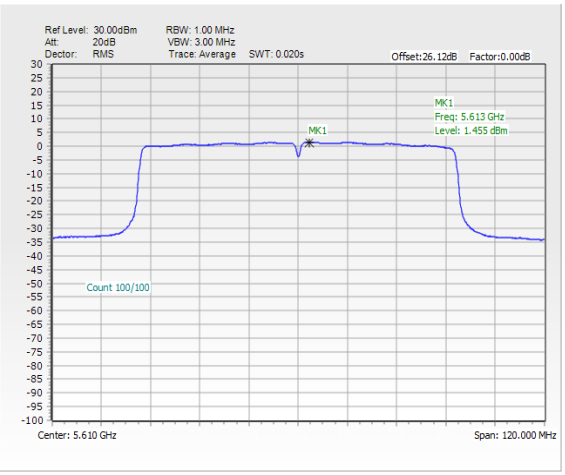
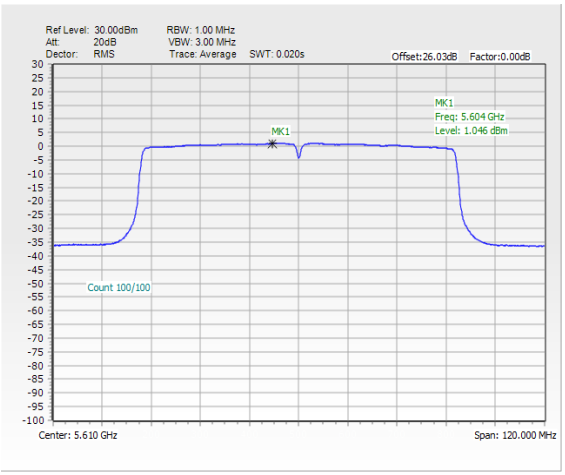
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

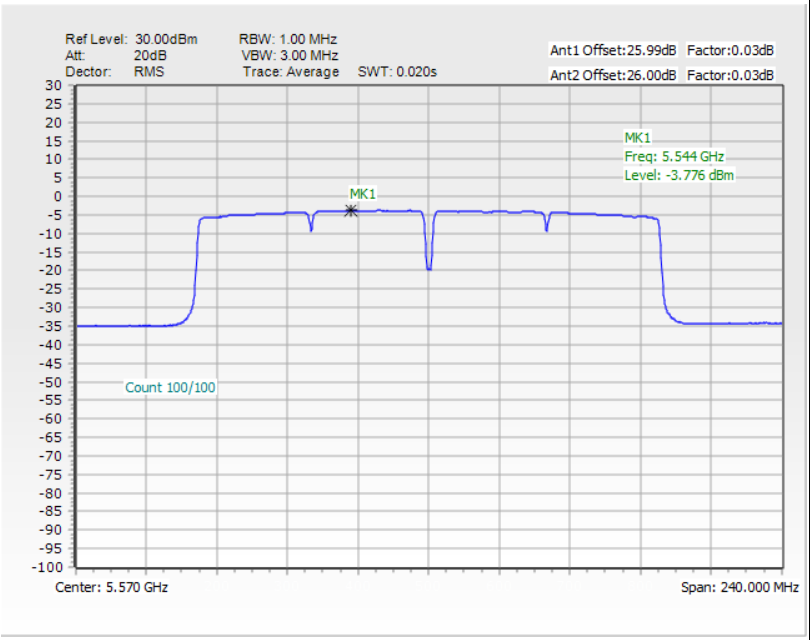
<802.11ac VHT80>

Maximum Power Density Plot (dBm/MHz)


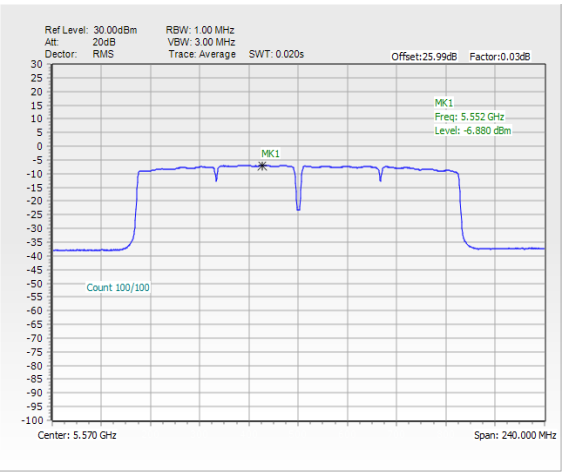
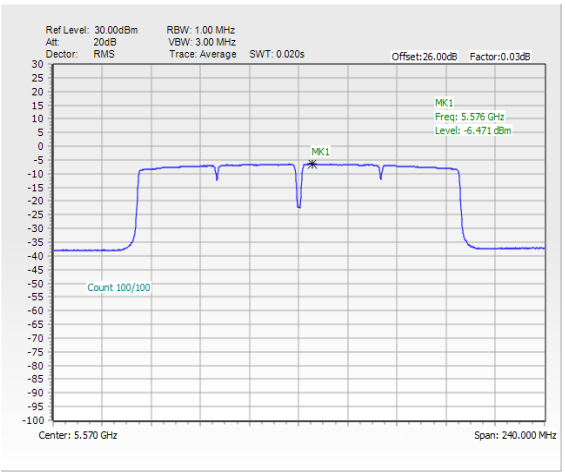
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

<802.11ac VHT160>

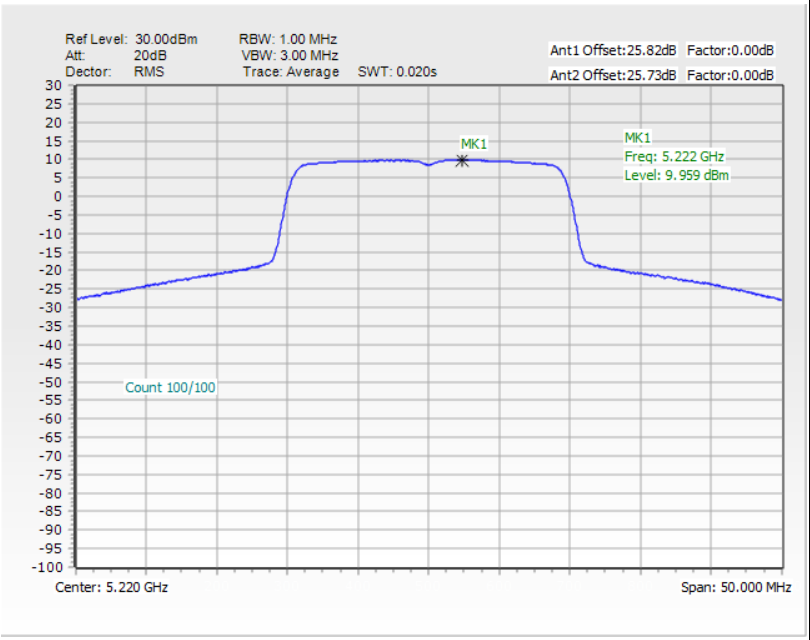
Maximum Power Density Plot (dBm/MHz)


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

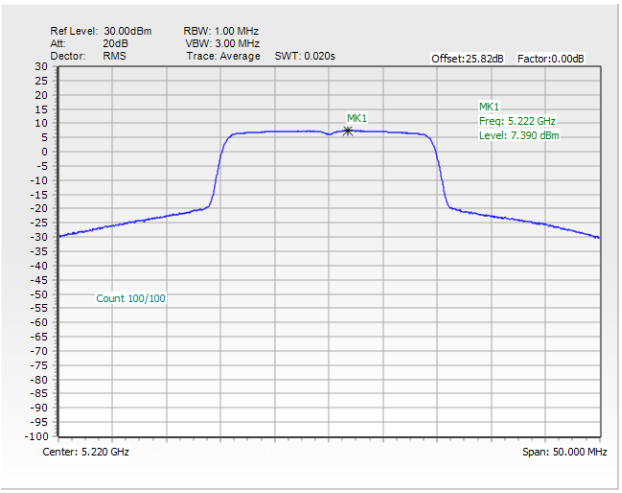
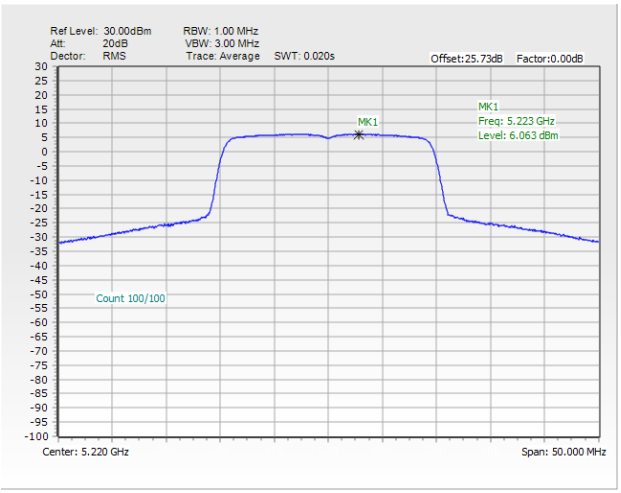
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	

<802.11ax HE20>

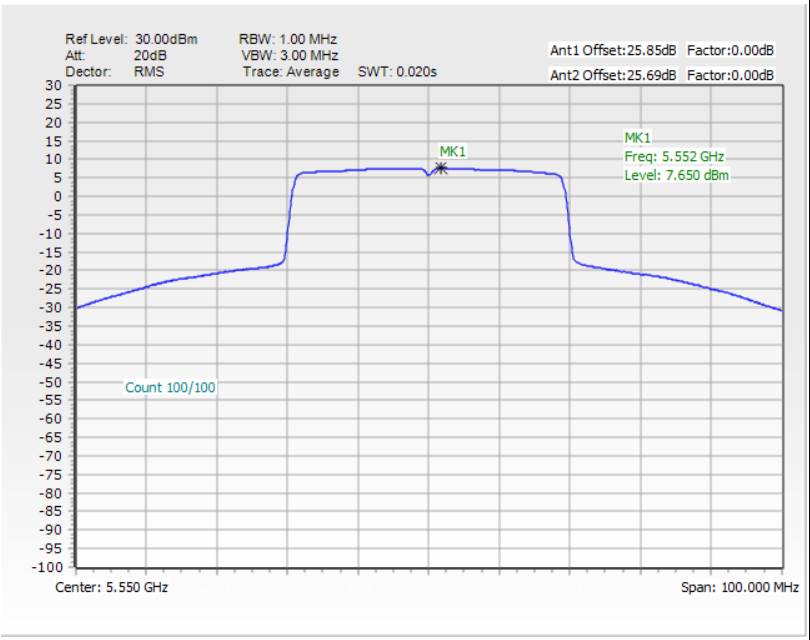
Maximum Power Density Plot (dBm/MHz)



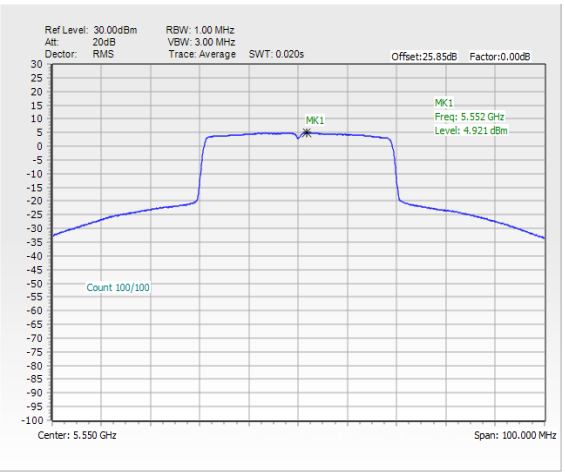
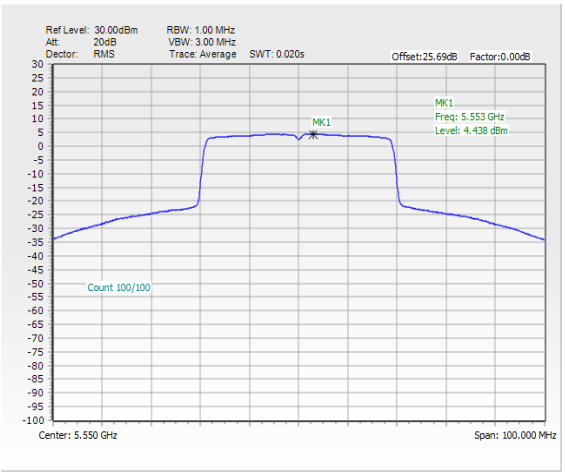
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

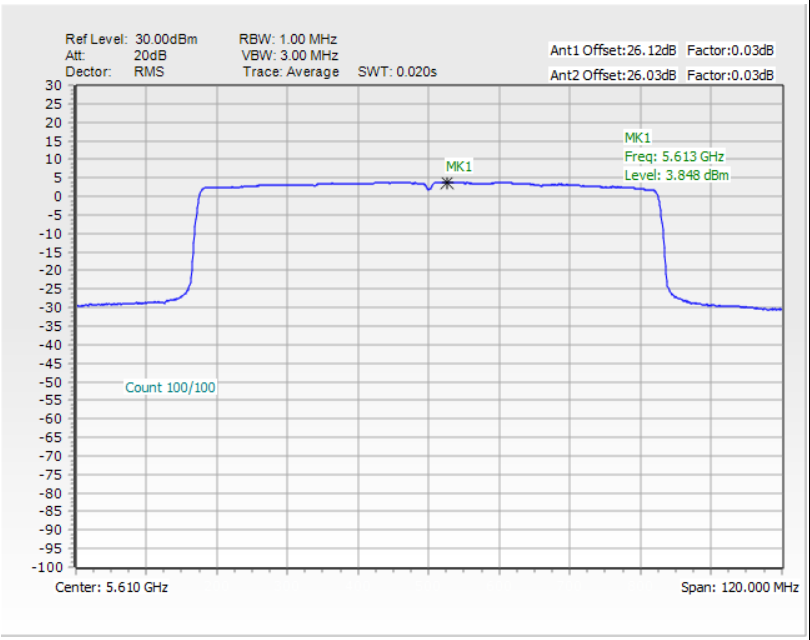
<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)


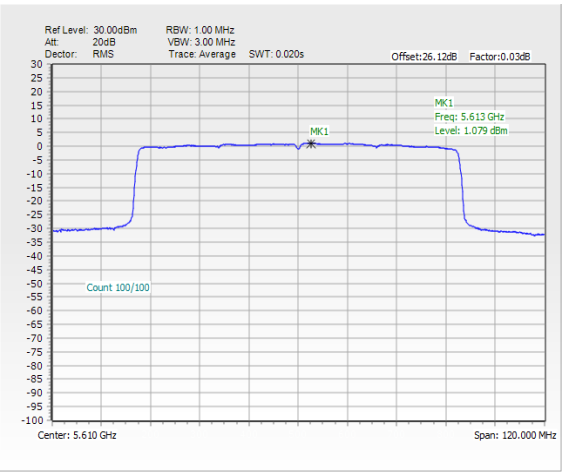
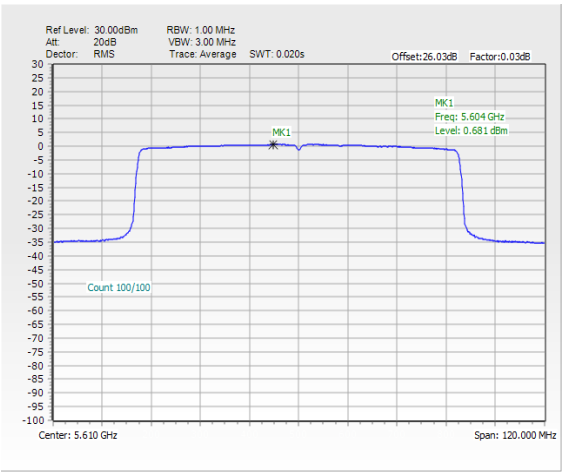
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

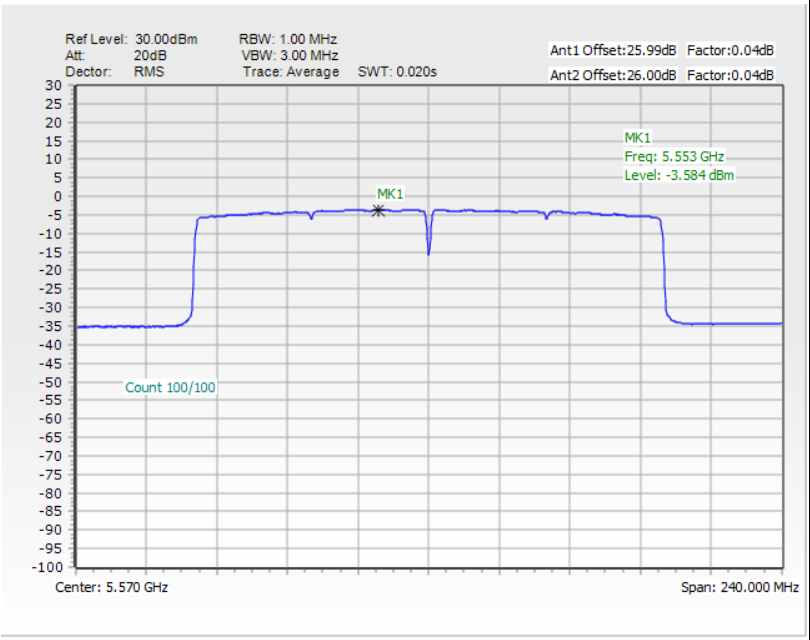
<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)


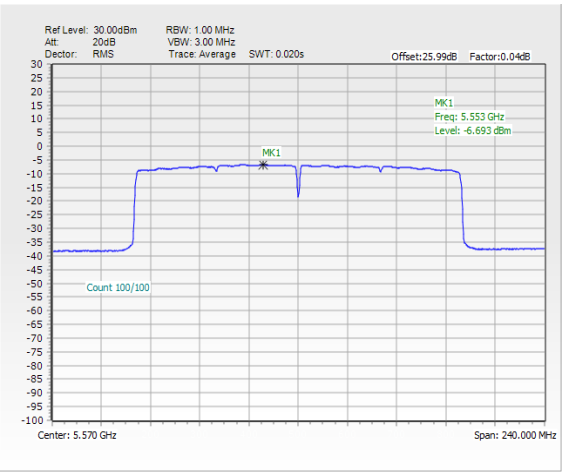
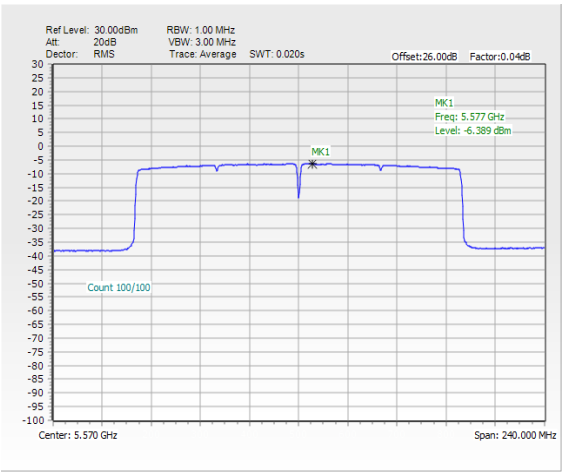
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

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

<802.11ax HE160>

Maximum Power Density Plot (dBm/MHz)


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

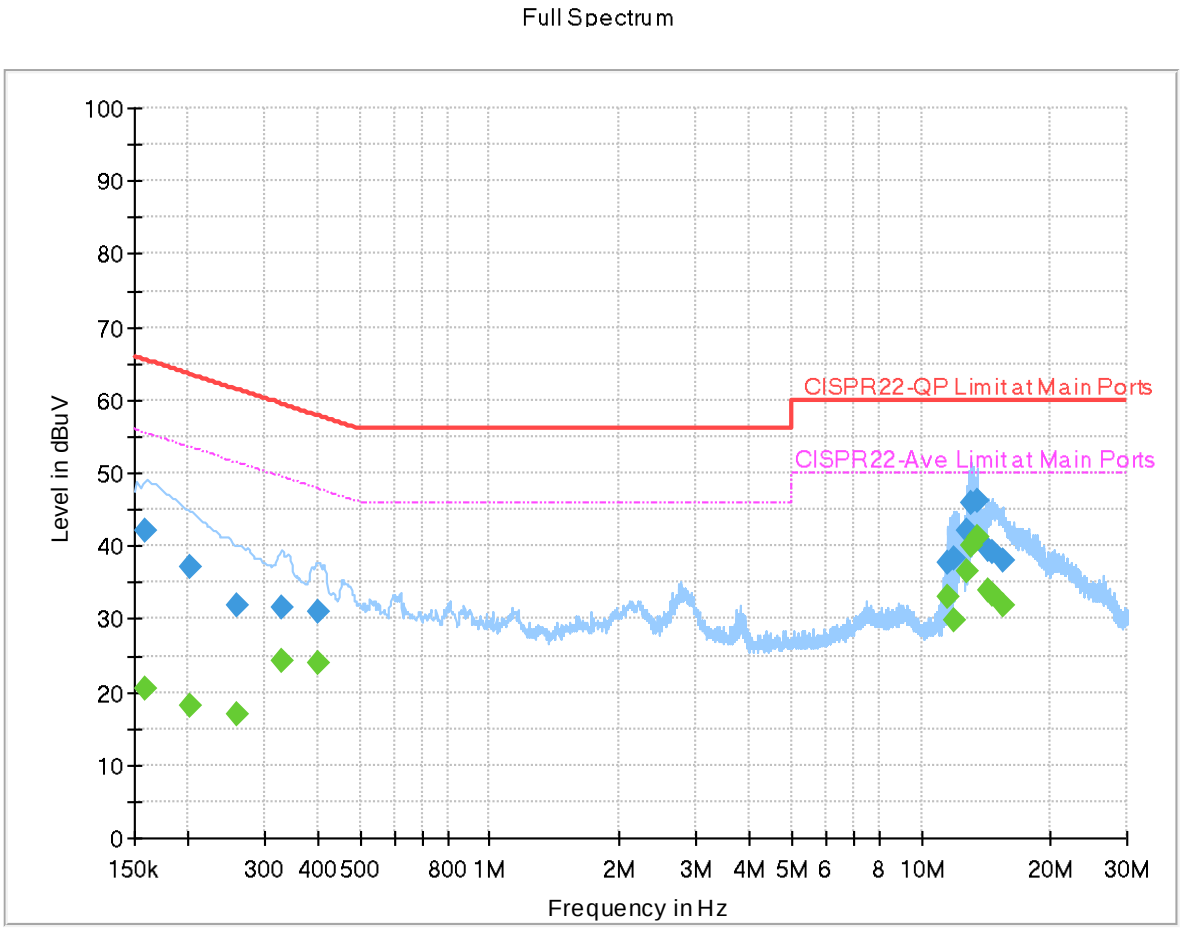
Maximum Power Density Plot Trace 1 (Ant 1)	Maximum Power Density Plot Trace 2 (Ant 2)
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	22.3~24.7℃
		Relative Humidity :	40.4~48.9%

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



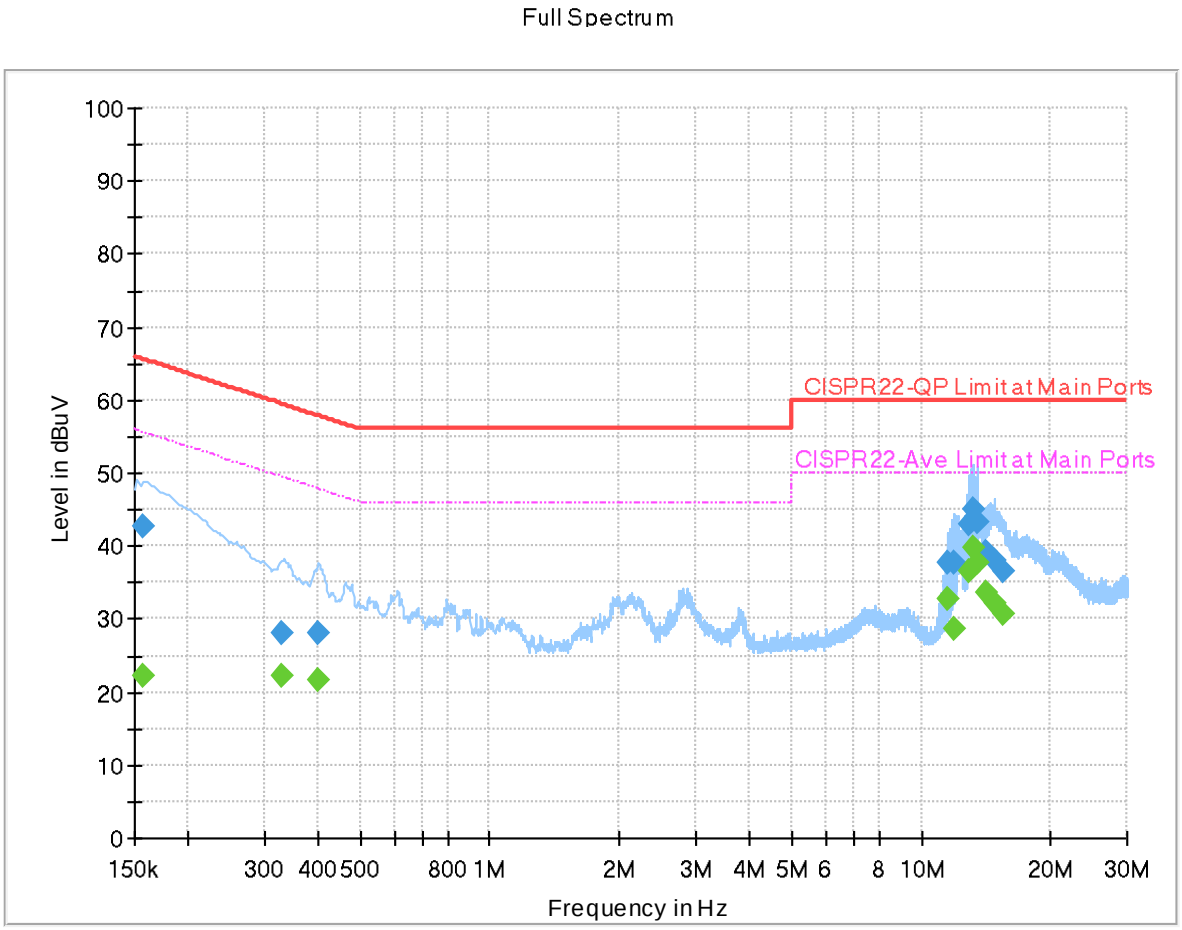
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	20.55	55.52	34.97	L1	OFF	19.9
0.159000	41.97	---	65.52	23.55	L1	OFF	19.9
0.201750	---	18.05	53.54	35.49	L1	OFF	19.9
0.201750	37.20	---	63.54	26.34	L1	OFF	19.9
0.260250	---	16.91	51.42	34.51	L1	OFF	19.9
0.260250	31.88	---	61.42	29.54	L1	OFF	19.9
0.330000	---	24.26	49.45	25.19	L1	OFF	19.9
0.330000	31.60	---	59.45	27.85	L1	OFF	19.9
0.400470	---	23.99	47.84	23.85	L1	OFF	19.9
0.400470	30.91	---	57.84	26.93	L1	OFF	19.9
11.558040	---	32.90	50.00	17.10	L1	OFF	20.1
11.558040	37.80	---	60.00	22.20	L1	OFF	20.1
11.949000	---	29.95	50.00	20.05	L1	OFF	20.1
11.949000	38.44	---	60.00	21.56	L1	OFF	20.1
12.757560	---	36.64	50.00	13.36	L1	OFF	20.1
12.757560	41.99	---	60.00	18.01	L1	OFF	20.1
13.056000	---	40.07	50.00	9.93	L1	OFF	20.1
13.056000	45.84	---	60.00	14.16	L1	OFF	20.1
13.559640	---	41.22	50.00	8.78	L1	OFF	20.1

13.559640	46.11	---	60.00	13.89	L1	OFF	20.1
14.254170	---	33.94	50.00	16.06	L1	OFF	20.1
14.254170	39.49	---	60.00	20.51	L1	OFF	20.1
14.633250	---	33.30	50.00	16.70	L1	OFF	20.1
14.633250	39.28	---	60.00	20.72	L1	OFF	20.1
15.447750	---	31.90	50.00	18.10	L1	OFF	20.1
15.447750	38.15	---	60.00	21.85	L1	OFF	20.1

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	22.08	55.63	33.55	N	OFF	19.9
0.156750	42.64	---	65.63	22.99	N	OFF	19.9
0.330000	---	22.29	49.45	27.16	N	OFF	19.9
0.330000	27.97	---	59.45	31.48	N	OFF	19.9
0.400830	---	21.56	47.84	26.28	N	OFF	19.9
0.400830	28.03	---	57.84	29.81	N	OFF	19.9
11.556870	---	32.74	50.00	17.26	N	OFF	20.1
11.556870	37.80	---	60.00	22.20	N	OFF	20.1
11.944500	---	28.60	50.00	21.40	N	OFF	20.1
11.944500	37.72	---	60.00	22.28	N	OFF	20.1
12.861780	---	36.58	50.00	13.42	N	OFF	20.1
12.861780	43.02	---	60.00	16.98	N	OFF	20.1
13.255260	---	39.67	50.00	10.33	N	OFF	20.1
13.255260	44.95	---	60.00	15.05	N	OFF	20.1
13.555500	---	37.84	50.00	12.16	N	OFF	20.1
13.555500	43.25	---	60.00	16.75	N	OFF	20.1
14.147610	---	33.65	50.00	16.35	N	OFF	20.1
14.147610	39.10	---	60.00	20.90	N	OFF	20.1
14.855280	---	32.11	50.00	17.89	N	OFF	20.1

14.855280	**38.10**	**---**	**60.00**	**21.90**	**N**	**OFF**	**20.1**
15.541980	**---**	**30.64**	**50.00**	**19.36**	**N**	**OFF**	**20.2**
15.541980	**36.45**	**---**	**60.00**	**23.55**	**N**	**OFF**	**20.2**

Appendix C. Radiated Spurious Emission

Test Engineer :	John Chuang, David Dai and Sam Chou	Temperature :	19.7~23.5°C
		Relative Humidity :	64.9~70.8%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	63.89	-10.11	74	55.86	32.9	12.91	37.78	145	62	P	H
		5150	52.15	-1.85	54	44.12	32.9	12.91	37.78	145	62	A	H
	*	5180	112.19	-	-	104.09	32.96	12.94	37.8	145	62	P	H
	*	5180	106.61	-	-	98.51	32.96	12.94	37.8	145	62	A	H
													H
													H
		5147.16	62.45	-11.55	74	54.41	32.91	12.91	37.78	102	33	P	V
		5150	52.45	-1.55	54	44.42	32.9	12.91	37.78	102	33	A	V
	*	5180	114.61	-	-	106.51	32.96	12.94	37.8	102	33	P	V
	*	5180	107.35	-	-	99.25	32.96	12.94	37.8	102	33	A	V
													V
													V
802.11a CH 44 5220MHz		5140.4	49.63	-24.37	74	41.58	32.92	12.9	37.77	168	47	P	H
		5149.24	40.95	-13.05	54	32.92	32.9	12.91	37.78	168	47	A	H
	*	5220	114.84	-	-	106.72	32.96	12.99	37.83	168	47	P	H
	*	5220	108.44	-	-	100.32	32.96	12.99	37.83	168	47	A	H
		5440.12	46.83	-27.17	74	38.53	32.98	13.31	37.99	168	47	P	H
		5374.32	37.75	-16.25	54	29.67	32.8	13.22	37.94	168	47	A	H
		5143	50.87	-23.13	74	42.82	32.91	12.91	37.77	114	35	P	V
		5149.5	40.51	-13.49	54	32.48	32.9	12.91	37.78	114	35	A	V
	*	5220	115.22	-	-	107.1	32.96	12.99	37.83	114	35	P	V
	*	5220	108.31	-	-	100.19	32.96	12.99	37.83	114	35	A	V
		5453	47.12	-26.88	74	38.81	32.99	13.32	38	114	35	P	V
		5374.88	36.89	-17.11	54	28.81	32.8	13.22	37.94	114	35	A	V

802.11a CH 48 5240MHz		5139.62	47.97	-26.03	74	39.92	32.92	12.9	37.77	153	62	P	H
		5148.46	39.25	-14.75	54	31.22	32.9	12.91	37.78	153	62	A	H
	*	5240	115.29	-	-	107.19	32.92	13.02	37.84	153	62	P	H
	*	5240	108.36	-	-	100.26	32.92	13.02	37.84	153	62	A	H
		5361.16	47.22	-26.78	74	39.21	32.74	13.2	37.93	153	62	P	H
		5393.92	37.84	-16.16	54	29.66	32.88	13.25	37.95	153	62	A	H
		5088.4	49.79	-24.21	74	41.69	32.98	12.85	37.73	108	33	P	V
		5148.2	39.41	-14.59	54	31.38	32.9	12.91	37.78	108	33	A	V
	*	5240	114.79	-	-	106.69	32.92	13.02	37.84	108	33	P	V
	*	5240	108.53	-	-	100.43	32.92	13.02	37.84	108	33	A	V
		5379.36	47.59	-26.41	74	39.48	32.82	13.23	37.94	108	33	P	V
		5352.76	37.21	-16.79	54	29.23	32.71	13.19	37.92	108	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5760	53.31	-14.89	68.2	43.73	33.84	13.71	37.97	-	-	P	H
		6906.6	57.42	-10.78	68.2	44.85	35.81	15.04	38.28	-	-	P	H
		10360	51.18	-17.02	68.2	34.86	38.78	18.96	41.42	-	-	P	H
		15540	53.33	-20.67	74	36.57	38.22	23.28	44.74	400	15	P	H
		15540	42.67	-11.33	54	25.91	38.22	23.28	44.74	400	15	A	H
													H
													H
													H
													H
													H
													H
													H
		5760	49.74	-18.46	68.2	40.16	33.84	13.71	37.97	-	-	P	V
		6906.6	55.41	-12.79	68.2	42.84	35.81	15.04	38.28	-	-	P	V
		10360	50.63	-17.57	68.2	34.31	38.78	18.96	41.42	-	-	P	V
		15540	52.49	-21.51	74	35.73	38.22	23.28	44.74	400	36	P	V
		15540	41.89	-12.11	54	25.13	38.22	23.28	44.74	400	36	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 44 5220MHz		5760	50.82	-17.38	68.2	41.24	33.84	13.71	37.97	-	-	P	H
		6960	57.58	-10.62	68.2	44.89	35.92	15.09	38.32	-	-	P	H
		10440	51.8	-16.4	68.2	35.51	38.74	19.02	41.47	-	-	P	H
		15660	50.21	-23.79	74	33.53	37.92	23.38	44.62	100	101	P	H
		15660	40.87	-13.13	54	24.19	37.92	23.38	44.62	100	101	A	H
													H
													H
													H
													H
													H
													H
													H
		5760	49.5	-18.7	68.2	39.92	33.84	13.71	37.97	-	-	P	V
		6960	58.13	-10.07	68.2	45.44	35.92	15.09	38.32	-	-	P	V
		10440	51.84	-16.36	68.2	35.55	38.74	19.02	41.47	-	-	P	V
		15660	51.95	-22.05	74	35.27	37.92	23.38	44.62	200	162	P	V
		15660	40.88	-13.12	54	24.2	37.92	23.38	44.62	200	162	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		10480	56.03	-12.17	68.2	39.68	38.78	19.06	41.49	299	54	P	H
		15720	52.46	-21.54	74	35.79	37.8	23.43	44.56	315	47	P	H
		15720	41.62	-12.38	54	24.95	37.8	23.43	44.56	315	47	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10480	56.56	-11.64	68.2	40.21	38.78	19.06	41.49	303	57	P	V
		15720	51.78	-22.22	74	35.11	37.8	23.43	44.56	207	1	P	V
		15720	41.72	-12.28	54	25.05	37.8	23.43	44.56	207	1	A	V
													V
													V
													V
													V
													V
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													V
													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 36 5180MHz		5149.5	65.61	-8.39	74	57.58	32.9	12.91	37.78	100	33	P	H
		5150	50.66	-3.34	54	42.63	32.9	12.91	37.78	100	33	A	H
	*	5180	112.82	-	-	104.72	32.96	12.94	37.8	100	33	P	H
	*	5180	105.27	-	-	97.17	32.96	12.94	37.8	100	33	A	H
													H
													H
		5148.98	61.05	-12.95	74	53.02	32.9	12.91	37.78	216	28	P	V
		5150	49.05	-4.95	54	41.02	32.9	12.91	37.78	216	28	A	V
	*	5180	111.25	-	-	103.15	32.96	12.94	37.8	216	28	P	V
	*	5180	102.72	-	-	94.62	32.96	12.94	37.8	216	28	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5141.7	50.2	-23.8	74	42.15	32.92	12.9	37.77	189	42	P	H
		5146.38	40.51	-13.49	54	32.47	32.91	12.91	37.78	189	42	A	H
	*	5220	114.82	-	-	106.7	32.96	12.99	37.83	189	42	P	H
	*	5220	106.82	-	-	98.7	32.96	12.99	37.83	189	42	A	H
		5448.8	47.96	-26.04	74	39.63	33	13.32	37.99	189	42	P	H
		5452.16	38.31	-15.69	54	29.99	33	13.32	38	189	42	A	H
		5140.66	49.69	-24.31	74	41.64	32.92	12.9	37.77	100	35	P	V
		5148.72	40.03	-13.97	54	32	32.9	12.91	37.78	100	35	A	V
	*	5220	114.37	-	-	106.25	32.96	12.99	37.83	100	35	P	V
	*	5220	106.85	-	-	98.73	32.96	12.99	37.83	100	35	A	V
		5451.32	47.26	-26.74	74	38.93	33	13.32	37.99	100	35	P	V
		5375.16	37.22	-16.78	54	29.14	32.8	13.22	37.94	100	35	A	V

802.11ax HE20 Full CH 48 5240MHz		5006.24	48	-26	74	39.81	33.08	12.78	37.67	100	30	P	H
		5147.94	38.54	-15.46	54	30.51	32.9	12.91	37.78	100	30	A	H
	*	5240	115.22	-	-	107.12	32.92	13.02	37.84	100	30	P	H
	*	5240	107.39	-	-	99.29	32.92	13.02	37.84	100	30	A	H
		5402.04	49.4	-24.6	74	41.2	32.9	13.26	37.96	100	30	P	H
		5401.48	38.93	-15.07	54	30.73	32.9	13.26	37.96	100	30	A	H
		5101.66	50.18	-23.82	74	42.05	33	12.87	37.74	104	33	P	V
		5149.5	39.04	-14.96	54	31.01	32.9	12.91	37.78	104	33	A	V
	*	5240	114.44	-	-	106.34	32.92	13.02	37.84	104	33	P	V
	*	5240	107.51	-	-	99.41	32.92	13.02	37.84	104	33	A	V
		5374.32	48.55	-25.45	74	40.47	32.8	13.22	37.94	104	33	P	V
		5353.88	37.17	-16.83	54	29.18	32.72	13.19	37.92	104	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		4876	48.85	-25.15	74	41.36	32.5	12.55	37.56	400	80	P	H
		4876	38.41	-15.59	54	30.92	32.5	12.55	37.56	400	80	A	H
		5488	50.24	-17.96	68.2	41.98	32.92	13.36	38.02	-	-	P	H
		5760	56.58	-11.62	68.2	47	33.84	13.71	37.97	-	-	P	H
		6562	55.98	-12.22	68.2	43.8	35.57	14.65	38.04	-	-	P	H
		6906.6	62.74	-5.46	68.2	50.17	35.81	15.04	38.28	-	-	P	H
		10360	51.08	-17.12	68.2	34.76	38.78	18.96	41.42	-	-	P	H
		15540	50.97	-23.03	74	34.21	38.22	23.28	44.74	400	43	P	H
		15540	42.98	-11.02	54	26.22	38.22	23.28	44.74	400	43	A	H
													H
802.11ax													H
HE20 Full													H
CH 36		4876	51.13	-22.87	74	43.64	32.5	12.55	37.56	150	125	P	V
5180MHz		4876	41	-13	54	33.51	32.5	12.55	37.56	150	125	A	V
		5488	48.87	-19.33	68.2	40.61	32.92	13.36	38.02	-	-	P	V
		5760	54.24	-13.96	68.2	44.66	33.84	13.71	37.97	-	-	P	V
		6562	54.62	-13.58	68.2	42.44	35.57	14.65	38.04	-	-	A	V
		6906.6	59.92	-8.28	68.2	47.35	35.81	15.04	38.28	-	-	A	V
		10360	50.48	-17.72	68.2	34.16	38.78	18.96	41.42	-	-	P	V
		15540	51.09	-22.91	74	34.33	38.22	23.28	44.74	400	37	P	V
		15540	42.74	-11.26	54	25.98	38.22	23.28	44.74	400	37	A	V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin (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)
		6958	60.92	-7.28	68.2	48.24	35.92	15.08	38.32	-	-	P	H
		10440	50.64	-17.56	68.2	34.35	38.74	19.02	41.47	-	-	P	H
		15660	51.25	-22.75	74	34.57	37.92	23.38	44.62	300	10	P	H
		15660	42.82	-11.18	54	26.14	37.92	23.38	44.62	300	10	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		6958	55.33	-12.87	68.2	42.65	35.92	15.08	38.32	-	-	P	V
5220MHz		10440	51.08	-17.12	68.2	34.79	38.74	19.02	41.47	-	-	P	V
		15660	50.78	-23.22	74	34.1	37.92	23.38	44.62	188	2	P	V
		15660	42.56	-11.44	54	25.88	37.92	23.38	44.62	188	2	A	V
													V
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													V
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													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10480	55.31	-12.89	68.2	38.96	38.78	19.06	41.49	102	61	P	H
		15720	51.68	-22.32	74	35.01	37.8	23.43	44.56	312	10	P	H
		15720	41.48	-12.52	54	24.81	37.8	23.43	44.56	312	10	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	56.62	-11.58	68.2	40.27	38.78	19.06	41.49	303	59	P	V
5240MHz		15720	52.2	-21.8	74	35.53	37.8	23.43	44.56	203	1	P	V
		15720	41.71	-12.29	54	25.04	37.8	23.43	44.56	203	1	A	V
													V
													V
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													V
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													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 36 5180MHz		5147.42	70.94	-3.06	74	62.9	32.91	12.91	37.78	132	140	P	H
		5146.9	45.6	-8.4	54	37.56	32.91	12.91	37.78	132	140	A	H
	*	5180	110.37	-	-	102.27	32.96	12.94	37.8	132	140	P	H
	*	5180	103.37	-	-	95.27	32.96	12.94	37.8	132	140	A	H
													H
													H
		5147.42	72.6	-1.4	74	64.56	32.91	12.91	37.78	131	33	P	V
		5150	52.03	-1.97	54	44	32.9	12.91	37.78	131	33	P	V
	*	5180	112.28	-	-	104.18	32.96	12.94	37.8	131	33	P	V
	*	5180	105.96	-	-	97.86	32.96	12.94	37.8	131	33	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 38 5190MHz		5148.2	65.28	-8.72	74	57.25	32.9	12.91	37.78	138	63	P	H
		5150	52.91	-1.09	54	44.88	32.9	12.91	37.78	138	63	A	H
	*	5190	110.06	-	-	101.94	32.98	12.95	37.81	138	63	P	H
	*	5190	102.81	-	-	94.69	32.98	12.95	37.81	138	63	A	H
		5354.44	48.19	-25.81	74	40.21	32.72	13.19	37.93	138	63	P	H
		5351.08	38.07	-15.93	54	30.1	32.7	13.19	37.92	138	63	A	H
		5148.46	66.67	-7.33	74	58.64	32.9	12.91	37.78	200	33	P	V
		5147.68	51.3	-2.7	54	43.27	32.9	12.91	37.78	200	33	A	V
	*	5190	108.62	-	-	100.5	32.98	12.95	37.81	200	33	P	V
	*	5190	101.1	-	-	92.98	32.98	12.95	37.81	200	33	A	V
		5353.88	46.58	-27.42	74	38.59	32.72	13.19	37.92	200	33	P	V
		5349.96	36.45	-113.55	150	28.49	32.7	13.18	37.92	200	33	A	V
802.11ax HE40 Full CH 46 5230MHz		5141.44	62.65	-11.35	74	54.6	32.92	12.9	37.77	183	49	P	H
		5150	52.49	-1.51	54	44.46	32.9	12.91	37.78	183	49	A	H
	*	5230	110.89	-	-	102.78	32.94	13.01	37.84	183	49	P	H
	*	5230	103.28	-	-	95.17	32.94	13.01	37.84	183	49	A	H
		5354.72	49.95	-24.05	74	41.97	32.72	13.19	37.93	183	49	P	H
		5350	39.7	-14.3	54	31.73	32.7	13.19	37.92	183	49	A	H
		5145.6	60.94	-13.06	74	52.89	32.91	12.91	37.77	150	30	P	V
		5147.68	49.73	-4.27	54	41.7	32.9	12.91	37.78	150	30	A	V
	*	5230	111.75	-	-	103.64	32.94	13.01	37.84	150	30	P	V
	*	5230	104.44	-	-	96.33	32.94	13.01	37.84	150	30	A	V
		5364.24	48.92	-25.08	74	40.88	32.76	13.21	37.93	150	30	P	V
		5350	39.36	-14.64	54	31.39	32.7	13.19	37.92	150	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		6922	56.02	-12.18	68.2	43.43	35.84	15.05	38.3	-	-	P	H
		10380	50.28	-17.92	68.2	34.01	38.74	18.96	41.43	-	-	P	H
		15570	51.62	-22.38	74	34.86	38.16	23.31	44.71	312	12	P	H
		15570	41.99	-12.01	54	25.23	38.16	23.31	44.71	312	12	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		6922	53.72	-14.48	68.2	41.13	35.84	15.05	38.3	-	-	P	V
5190MHz		10380	51.75	-16.45	68.2	35.48	38.74	18.96	41.43	-	-	P	V
		15570	51.1	-22.9	74	34.34	38.16	23.31	44.71	123	107	P	V
		15570	41.99	-12.01	54	25.23	38.16	23.31	44.71	123	107	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		6976	57.75	-10.45	68.2	45.03	35.95	15.1	38.33	-	-	P	H
		10460	50.4	-17.8	68.2	34.08	38.76	19.04	41.48	-	-	P	H
		15690	50.7	-23.3	74	34.05	37.83	23.41	44.59	125	78	P	H
		15690	42.03	-11.97	54	25.38	37.83	23.41	44.59	125	78	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		6976	53.28	-14.92	68.2	40.56	35.95	15.1	38.33	-	-	P	V
5230MHz		10460	51.57	-16.63	68.2	35.25	38.76	19.04	41.48	-	-	P	V
		15690	51.14	-22.86	74	34.49	37.83	23.41	44.59	123	357	P	V
		15690	41.95	-12.05	54	25.3	37.83	23.41	44.59	123	357	A	V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 38 5190MHz		5123.5	70.36	-3.64	74	62.28	32.95	12.89	37.76	100	32	P	H
		5134.68	49.54	-4.46	54	41.48	32.93	12.9	37.77	100	32	A	H
	*	5190	111.62	-	-	103.5	32.98	12.95	37.81	100	32	P	H
	*	5190	103.23	-	-	95.11	32.98	12.95	37.81	100	32	A	H
		5351.64	56.2	-17.8	74	48.22	32.71	13.19	37.92	100	32	P	H
		5351.36	37.13	-16.87	54	29.15	32.71	13.19	37.92	100	32	A	H
		5140.14	70.97	-3.03	74	62.92	32.92	12.9	37.77	129	138	P	V
		5148.98	50.78	-3.22	54	42.75	32.9	12.91	37.78	129	138	A	V
	*	5190	109.81	-	-	101.69	32.98	12.95	37.81	129	138	P	V
	*	5190	100.52	-	-	92.4	32.98	12.95	37.81	129	138	A	V
		5378.8	52.41	-21.59	74	44.3	32.82	13.23	37.94	129	138	P	V
		5351.36	36.28	-17.72	54	28.3	32.71	13.19	37.92	129	138	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5128.18	61.42	-12.58	74	53.35	32.94	12.89	37.76	190	38	P	H
		5141.18	50.77	-3.23	54	42.72	32.92	12.9	37.77	190	38	A	H
	*	5210	103.85	-	-	95.71	32.98	12.98	37.82	190	38	P	H
	*	5210	96.25	-	-	88.11	32.98	12.98	37.82	190	38	A	H
		5394.22	47.96	-26.04	74	39.78	32.88	13.25	37.95	190	38	P	H
		5350.54	38.9	-15.1	54	30.93	32.7	13.19	37.92	190	38	A	H
		5136.76	57.54	-16.46	74	49.48	32.93	12.9	37.77	100	44	P	V
		5142.74	48.63	-5.37	54	40.58	32.91	12.91	37.77	100	44	A	V
	*	5210	105.28	-	-	97.14	32.98	12.98	37.82	100	44	P	V
	*	5210	97.23	-	-	89.09	32.98	12.98	37.82	100	44	A	V
		5432.44	46	-28	74	37.72	32.96	13.3	37.98	100	44	P	V
		5350.8	37.8	-16.2	54	29.83	32.7	13.19	37.92	100	44	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5758	51.94	-16.26	68.2	42.38	33.83	13.7	37.97	-	-	P	H
		6946	58.47	-9.73	68.2	45.82	35.89	15.07	38.31	-	-	P	H
		10420	50.23	-17.97	68.2	33.96	38.72	19	41.45	-	-	P	H
		15630	50.39	-23.61	74	33.67	38.01	23.36	44.65	215	127	P	H
		15630	41.81	-12.19	54	25.09	38.01	23.36	44.65	215	127	A	H
													H
													H
													H
													H
													H
													H
													H
		6946	55.05	-13.15	68.2	42.4	35.89	15.07	38.31	-	-	P	V
		10420	50.49	-17.71	68.2	34.22	38.72	19	41.45	-	-	P	V
		15630	51.3	-22.7	74	34.58	38.01	23.36	44.65	102	14	P	V
		15630	41.88	-12.12	54	25.16	38.01	23.36	44.65	102	14	A	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 42 5210MHz		5144.56	68.55	-5.45	74	60.5	32.91	12.91	37.77	117	33	P	H
		5149.24	49.46	-4.54	54	41.43	32.9	12.91	37.78	117	33	A	H
	*	5210	107.85	-	-	99.71	32.98	12.98	37.82	117	33	P	H
	*	5210	99.53	-	-	91.39	32.98	12.98	37.82	117	33	A	H
		5379.4	56.09	-17.91	74	47.98	32.82	13.23	37.94	117	33	P	H
		5350.54	37.83	-16.17	54	29.86	32.7	13.19	37.92	117	33	A	H
		5146.9	69.87	-4.13	74	61.83	32.91	12.91	37.78	100	33	P	V
		5150	47.73	-6.27	54	39.7	32.9	12.91	37.78	100	33	A	V
	*	5210	107.2	-	-	99.06	32.98	12.98	37.82	100	33	P	V
	*	5210	99.94	-	-	91.8	32.98	12.98	37.82	100	33	A	V
		5357.3	56.77	-17.23	74	48.77	32.73	13.2	37.93	100	33	P	V
		5352.36	37.95	-16.05	54	29.97	32.71	13.19	37.92	100	33	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5143.48	59.7	-14.3	74	51.65	32.91	12.91	37.77	201	40	P	H
		5141.78	48.71	-5.29	54	40.66	32.92	12.9	37.77	201	40	A	H
	*	5250	100.57	-	-	92.49	32.9	13.03	37.85	201	40	P	H
	*	5250	92.75	-	-	84.67	32.9	13.03	37.85	201	40	A	H
		5369.1	63.7	-10.3	74	55.65	32.78	13.21	37.94	201	40	P	H
		5370.3	52.11	-1.89	54	44.05	32.78	13.22	37.94	201	40	A	H
		5121.38	60.35	-13.65	74	52.26	32.96	12.89	37.76	100	42	P	V
		5143.82	49.72	-4.28	54	41.67	32.91	12.91	37.77	100	42	A	V
	*	5250	102.32	-	-	94.24	32.9	13.03	37.85	100	42	P	V
	*	5250	93.18	-	-	85.1	32.9	13.03	37.85	100	42	A	V
		5362.2	59.72	-14.28	74	51.7	32.75	13.2	37.93	100	42	P	V
		5351.7	49.69	-4.31	54	41.71	32.71	13.19	37.92	100	42	P	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		5760	52.53	-15.67	68.2	42.95	33.84	13.71	37.97	-	-	P	H
		6562	51.41	-16.79	68.2	39.23	35.57	14.65	38.04	-	-	P	H
		7000	61.55	-6.65	68.2	47.32	36	16.58	38.35	-	-	P	H
		10500	50.32	-17.88	68.2	33.94	38.8	19.08	41.5	-	-	P	H
		15750	50.88	-23.12	74	34.15	37.8	23.46	44.53	100	311	P	H
		15750	41	-13	54	24.27	37.8	23.46	44.53	100	311	A	H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		5760	48.15	-20.05	68.2	38.57	33.84	13.71	37.97	-	-	P	V
5250MHz		6562	54.92	-13.28	68.2	42.74	35.57	14.65	38.04	-	-	P	V
		7000	58.2	-10	68.2	43.97	36	16.58	38.35	-	-	P	V
		10500	50.17	-18.03	68.2	33.79	38.8	19.08	41.5	-	-	P	V
		15750	50.66	-23.34	74	33.93	37.8	23.46	44.53	150	142	P	V
		15750	41.01	-12.99	54	24.28	37.8	23.46	44.53	150	142	A	V
													V
													V
													V
													V
													V
													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 50 5250MHz		5126.14	60.97	-13.03	74	52.89	32.95	12.89	37.76	188	43	P	H
		5125.12	47.53	-6.47	54	39.45	32.95	12.89	37.76	188	43	A	H
	*	5250	99.88	-	-	91.8	32.9	13.03	37.85	188	43	P	H
	*	5250	91.77	-	-	83.69	32.9	13.03	37.85	188	43	A	H
		5395.5	65.63	-8.37	74	57.45	32.88	13.25	37.95	188	43	P	H
		5395.8	51.59	-2.41	54	43.41	32.88	13.25	37.95	188	43	A	H
		5126.48	58.61	-15.39	74	50.53	32.95	12.89	37.76	100	13	P	V
		5121.38	46.93	-7.07	54	38.84	32.96	12.89	37.76	100	13	A	V
	*	5250	99.05	-	-	90.97	32.9	13.03	37.85	100	13	P	V
	*	5250	91.51	-	-	83.43	32.9	13.03	37.85	100	13	A	V
		5401.5	61.06	-12.94	74	52.86	32.9	13.26	37.96	100	13	P	V
		5396.1	47.89	-6.11	54	39.72	32.88	13.25	37.96	100	13	P	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5145.6	48.55	-25.45	74	40.5	32.91	12.91	37.77	153	62	P	H
		5149.24	38.84	-15.16	54	30.81	32.9	12.91	37.78	153	62	A	H
	*	5260	115.14	-	-	107.05	32.9	13.05	37.86	153	62	P	H
	*	5260	108.36	-	-	100.27	32.9	13.05	37.86	153	62	P	H
		5357.8	47.29	-26.71	74	39.29	32.73	13.2	37.93	153	62	P	H
		5350	37.99	-16.01	54	30.02	32.7	13.19	37.92	153	62	A	H
		5129.74	48.76	-25.24	74	40.69	32.94	12.89	37.76	105	33	P	V
		5105.82	39.61	-14.39	54	31.5	32.99	12.87	37.75	105	33	A	V
	*	5260	115.61	-	-	107.52	32.9	13.05	37.86	105	33	P	V
	*	5260	108.83	-	-	100.74	32.9	13.05	37.86	105	33	A	V
		5350	47.84	-26.16	74	39.87	32.7	13.19	37.92	105	33	P	V
		5351.08	38.4	-15.6	54	30.43	32.7	13.19	37.92	105	33	A	V
802.11a CH 60 5300MHz		5034.68	47.08	-26.92	74	39.01	32.96	12.8	37.69	105	31	P	H
		5143.14	38.73	-15.27	54	30.68	32.91	12.91	37.77	105	31	A	H
	*	5300	116.18	-	-	108.06	32.9	13.11	37.89	105	31	P	H
	*	5300	109.27	-	-	101.15	32.9	13.11	37.89	105	31	A	H
		5355.6	51.5	-22.5	74	43.52	32.72	13.19	37.93	105	31	P	H
		5350.08	42.6	-11.4	54	34.63	32.7	13.19	37.92	105	31	A	H
		5136.68	48.18	-25.82	74	40.12	32.93	12.9	37.77	105	31	P	V
		5000	40.35	-13.65	54	32.15	33.1	12.77	37.67	105	31	A	V
	*	5300	114.95	-	-	106.83	32.9	13.11	37.89	105	31	P	V
	*	5300	108.55	-	-	100.43	32.9	13.11	37.89	105	31	A	V
		5352.48	49.37	-24.63	74	41.39	32.71	13.19	37.92	105	31	P	V
		5350.08	41.68	-12.32	54	33.71	32.7	13.19	37.92	105	31	A	V

802.11a CH 64 5320MHz	*	5320	114.64	-	-	106.58	32.82	13.14	37.9	146	45	P	H
	*	5320	108.22	-	-	100.16	32.82	13.14	37.9	146	45	A	H
		5351.2	63.16	-10.84	74	55.19	32.7	13.19	37.92	146	45	P	H
		5350.08	51.89	-2.11	54	43.92	32.7	13.19	37.92	146	45	A	H
													H
													H
	*	5320	114.11	-	-	106.05	32.82	13.14	37.9	101	31	P	V
	*	5320	107.43	-	-	99.37	32.82	13.14	37.9	101	31	A	V
		5352.64	63.17	-10.83	74	55.19	32.71	13.19	37.92	101	31	P	V
		5350.08	50.73	-3.27	54	42.76	32.7	13.19	37.92	101	31	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		7013.3	63.07	-5.13	68.2	48.81	36.05	16.57	38.36	-	-	P	H
		10520	55.96	-12.24	68.2	39.52	38.86	19.1	41.52	298	55	P	H
		15780	52.21	-21.79	74	35.42	37.8	23.48	44.49	196	59	P	H
		15780	42.06	-11.94	54	25.27	37.8	23.48	44.49	196	59	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		7013.3	60.46	-7.74	68.2	46.2	36.05	16.57	38.36	-	-	P	V
		10520	57.09	-11.11	68.2	40.65	38.86	19.1	41.52	299	57	P	V
		15780	52.6	-21.4	74	35.81	37.8	23.48	44.49	205	1	P	V
		15780	41.95	-12.05	54	25.16	37.8	23.48	44.49	205	1	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 60 5300MHz		5760	53.17	-15.03	68.2	43.59	33.84	13.71	37.97	-	-	P	H
		6568	54.29	-13.91	68.2	42.07	35.61	14.66	38.05	-	-	P	H
		7066.7	60.86	-7.34	68.2	46.42	36.27	16.57	38.4	-	-	P	H
		10600	53.8	-20.2	74	37.11	39.1	19.18	41.59	299	52	P	H
		10600	43.96	-10.04	54	27.27	39.1	19.18	41.59	299	52	A	H
		15900	53.72	-20.28	74	36.61	37.9	23.58	44.37	400	32	P	H
		15900	43.12	-10.88	54	26.01	37.9	23.58	44.37	400	32	A	H
													H
													H
													H
													H
													H
		5760	48.83	-19.37	68.2	39.25	33.84	13.71	37.97	-	-	P	V
		6568	52.49	-15.71	68.2	40.27	35.61	14.66	38.05	-	-	P	V
		7066.7	57.14	-11.06	68.2	42.7	36.27	16.57	38.4	-	-	P	V
		10600	55.06	-18.94	74	38.37	39.1	19.18	41.59	169	68	P	V
		10600	44.78	-9.22	54	28.09	39.1	19.18	41.59	169	68	A	V
		15900	53.02	-20.98	74	35.91	37.9	23.58	44.37	302	44	P	V
		15900	42.66	-11.34	54	25.55	37.9	23.58	44.37	302	44	A	V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5760	49.69	-18.51	68.2	40.11	33.84	13.71	37.97	-	-	P	H
		6568	49.74	-18.46	68.2	37.52	35.61	14.66	38.05	-	-	P	H
		7093.3	60.74	-7.46	68.2	46.23	36.37	16.57	38.43	-	-	P	H
		10640	53.68	-20.32	74	37.01	39.1	19.2	41.63	301	51	P	H
		10640	43.63	-10.37	54	26.96	39.1	19.2	41.63	301	51	A	H
		15960	55.63	-18.37	74	38.35	37.96	23.63	44.31	400	31	P	H
		15960	44.01	-9.99	54	26.73	37.96	23.63	44.31	400	31	A	H
													H
													H
													H
													H
													H
		5760	50.32	-17.88	68.2	40.74	33.84	13.71	37.97	-	-	P	V
		6568	51.13	-17.07	68.2	38.91	35.61	14.66	38.05	-	-	P	V
		7093.3	58.34	-9.86	68.2	43.83	36.37	16.57	38.43	-	-	P	V
		10640	54.33	-19.67	74	37.66	39.1	19.2	41.63	170	68	P	V
		10640	44.37	-9.63	54	27.7	39.1	19.2	41.63	170	68	A	V
		15960	54.42	-19.58	74	37.14	37.96	23.63	44.31	319	50	P	V
		15960	43.37	-10.63	54	26.09	37.96	23.63	44.31	319	50	A	V
													V
													V
													V
													V
													V

Remark

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

Band 2 5250~5350MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 52 5260MHz		5149.6	48.75	-25.25	74	40.72	32.9	12.91	37.78	149	60	P	H
		5111.86	38.85	-15.15	54	30.74	32.98	12.88	37.75	149	60	A	H
	*	5260	116.74	-	-	108.65	32.9	13.05	37.86	149	60	P	H
	*	5260	108.87	-	-	100.78	32.9	13.05	37.86	149	60	A	H
		5356.8	47.91	-26.09	74	39.91	32.73	13.2	37.93	149	60	P	H
		5350.08	38.67	-15.33	54	30.7	32.7	13.19	37.92	149	60	A	H
		5047.26	48.5	-25.5	74	40.48	32.91	12.81	37.7	132	34	P	V
		5105.74	39.12	-14.88	54	31.01	32.99	12.87	37.75	132	34	A	V
	*	5260	115.08	-	-	106.99	32.9	13.05	37.86	132	34	P	V
	*	5260	107.41	-	-	99.32	32.9	13.05	37.86	132	34	A	V
		5357.04	48.56	-25.44	74	40.56	32.73	13.2	37.93	132	34	P	V
		5350.56	37.94	-16.06	54	29.97	32.7	13.19	37.92	132	34	A	V
802.11ax HE20 Full CH 60 5300MHz		5139.74	48.31	-25.69	74	40.26	32.92	12.9	37.77	144	60	P	H
		5140.42	38.92	-15.08	54	30.87	32.92	12.9	37.77	144	60	A	H
	*	5300	115.72	-	-	107.6	32.9	13.11	37.89	144	60	P	H
	*	5300	109.13	-	-	101.01	32.9	13.11	37.89	144	60	A	H
		5350.56	52.67	-21.33	74	44.7	32.7	13.19	37.92	144	60	P	H
		5350.08	44.04	-9.96	54	36.07	32.7	13.19	37.92	144	60	A	H
		5038.76	48.95	-25.05	74	40.9	32.94	12.81	37.7	119	34	P	V
		5000	40.42	-13.58	54	32.22	33.1	12.77	37.67	119	34	A	V
	*	5300	117.36	-	-	109.24	32.9	13.11	37.89	119	34	P	V
	*	5300	107.52	-	-	99.4	32.9	13.11	37.89	119	34	A	V
		5351.04	52.55	-21.45	74	44.58	32.7	13.19	37.92	119	34	P	V
		5350.08	42.63	-11.37	54	34.66	32.7	13.19	37.92	119	34	A	V

	*	5320	112.92	-	-	104.86	32.82	13.14	37.9	145	47	P	H
	*	5320	106.42	-	-	98.36	32.82	13.14	37.9	145	47	A	H
		5351.04	66.94	-7.06	74	58.97	32.7	13.19	37.92	145	47	P	H
		5350.08	52.49	-1.51	54	44.52	32.7	13.19	37.92	145	47	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	114.8	-	-	106.74	32.82	13.14	37.9	109	33	P	V
5320MHz	*	5320	106.04	-	-	97.98	32.82	13.14	37.9	109	33	A	V
		5352.32	66.16	-7.84	74	58.18	32.71	13.19	37.92	109	33	P	V
		5350.08	52.21	-1.79	54	44.24	32.7	13.19	37.92	109	33	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin (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)
		7013.3	63.86	-4.34	68.2	49.6	36.05	16.57	38.36	-	-	P	H
		10520	53.97	-14.23	68.2	37.53	38.86	19.1	41.52	315	55	P	H
		15780	52.26	-21.74	74	35.47	37.8	23.48	44.49	190	58	P	H
		15780	41.4	-12.6	54	24.61	37.8	23.48	44.49	190	58	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		7013.3	60.6	-7.6	68.2	46.34	36.05	16.57	38.36	-	-	P	V
5260MHz		10520	57.43	-10.77	68.2	40.99	38.86	19.1	41.52	301	57	P	V
		15780	51.91	-22.09	74	35.12	37.8	23.48	44.49	194	0	P	V
		15780	41.66	-12.34	54	24.87	37.8	23.48	44.49	194	0	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		5760	51.33	-16.87	68.2	41.75	33.84	13.71	37.97	-	-	P	H
		6568	49.27	-18.93	68.2	37.05	35.61	14.66	38.05	-	-	P	H
		7066.7	61.48	-6.72	68.2	47.04	36.27	16.57	38.4	-	-	P	H
		10600	53.78	-20.22	74	37.09	39.1	19.18	41.59	301	52	P	H
		10600	43.38	-10.62	54	26.69	39.1	19.18	41.59	301	52	A	H
		15900	53.16	-20.84	74	36.05	37.9	23.58	44.37	400	31	P	H
		15900	42.5	-11.5	54	25.39	37.9	23.58	44.37	400	31	A	H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		5760	50.38	-17.82	68.2	40.8	33.84	13.71	37.97	-	-	P	V
5300MHz		6568	53.41	-14.79	68.2	41.19	35.61	14.66	38.05	-	-	P	V
		7066.7	58.53	-9.67	68.2	44.09	36.27	16.57	38.4	-	-	P	V
		10600	55.84	-18.16	74	39.15	39.1	19.18	41.59	173	52	P	V
		10600	45.06	-8.94	54	28.37	39.1	19.18	41.59	173	52	A	V
		15900	52.78	-21.22	74	35.67	37.9	23.58	44.37	309	52	P	V
		15900	41.88	-12.12	54	24.77	37.9	23.58	44.37	309	52	A	V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5760	55.23	-12.97	68.2	45.65	33.84	13.71	37.97	-	-	P	H
		7093.3	61.39	-6.81	68.2	46.88	36.37	16.57	38.43	-	-	P	H
		10640	53.51	-20.49	74	36.84	39.1	19.2	41.63	299	52	P	H
		10640	43.43	-10.57	54	26.76	39.1	19.2	41.63	299	52	A	H
		15960	56.02	-17.98	74	38.74	37.96	23.63	44.31	400	31	P	H
		15960	43.4	-10.6	54	26.12	37.96	23.63	44.31	400	31	A	H
													H
													H
													H
													H
													H
													H
		5760	52.76	-15.44	68.2	43.18	33.84	13.71	37.97	-	-	P	V
		7093.3	58.47	-9.73	68.2	43.96	36.37	16.57	38.43	-	-	P	V
		10640	54.17	-19.83	74	37.5	39.1	19.2	41.63	201	68	P	V
		10640	43.53	-10.47	54	26.86	39.1	19.2	41.63	201	68	A	V
		15960	55.76	-18.24	74	38.48	37.96	23.63	44.31	318	51	P	V
		15960	42.84	-11.16	54	25.56	37.96	23.63	44.31	318	51	A	V
													V
													V
													V
													V
													V
													V

Remark

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

Band 2 5250~5350MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 64 5320MHz	*	5320	115.89	-	-	107.83	32.82	13.14	37.9	161	46	P	H
	*	5320	108.92	-	-	100.86	32.82	13.14	37.9	161	46	A	H
		5350.08	69.12	-4.88	74	61.15	32.7	13.19	37.92	161	46	P	H
		5350.08	46.4	-7.6	54	38.43	32.7	13.19	37.92	161	46	A	H
													H
													H
	*	5320	114.03	-	-	105.97	32.82	13.14	37.9	236	0	P	V
	*	5320	106.4	-	-	98.34	32.82	13.14	37.9	236	0	A	V
		5350.88	62.25	-11.75	74	54.28	32.7	13.19	37.92	236	0	P	V
		5350.08	40.99	-13.01	54	33.02	32.7	13.19	37.92	236	0	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 54 5270MHz		5144.5	49.68	-24.32	74	41.63	32.91	12.91	37.77	129	49	P	H
		5149.94	40.58	-13.42	54	32.55	32.9	12.91	37.78	129	49	A	H
	*	5270	115.15	-	-	107.04	32.9	13.07	37.86	129	49	P	H
	*	5270	105.38	-	-	97.27	32.9	13.07	37.86	129	49	A	H
		5357.76	58.36	-15.64	74	50.36	32.73	13.2	37.93	129	49	P	H
		5350.08	50.22	-3.78	54	42.25	32.7	13.19	37.92	129	49	A	H
		5146.88	51.3	-22.7	74	43.26	32.91	12.91	37.78	116	35	P	V
		5146.54	41.17	-12.83	54	33.13	32.91	12.91	37.78	116	35	A	V
	*	5270	113.43	-	-	105.32	32.9	13.07	37.86	116	35	P	V
	*	5270	105.88	-	-	97.77	32.9	13.07	37.86	116	35	A	V
		5351.76	59.06	-14.94	74	51.08	32.71	13.19	37.92	116	35	P	V
		5351.76	48.64	-5.36	54	40.66	32.71	13.19	37.92	116	35	A	V
802.11ax HE40 Full CH 62 5310MHz		5131.58	49.77	-24.23	74	41.69	32.94	12.9	37.76	206	41	P	H
		5149.26	39.17	-14.83	54	31.14	32.9	12.91	37.78	206	41	A	H
	*	5310	109.58	-	-	101.49	32.86	13.12	37.89	206	41	P	H
	*	5310	102.56	-	-	94.47	32.86	13.12	37.89	206	41	A	H
		5351.52	63.17	-10.83	74	55.19	32.71	13.19	37.92	206	41	P	H
		5350.32	51.91	-2.09	54	43.94	32.7	13.19	37.92	206	41	A	H
		5131.58	49.33	-24.67	74	41.25	32.94	12.9	37.76	100	359	P	V
		5148.24	37.81	-16.19	54	29.78	32.9	12.91	37.78	100	359	A	V
	*	5310	105.79	-	-	97.7	32.86	13.12	37.89	100	359	P	V
	*	5310	97.56	-	-	89.47	32.86	13.12	37.89	100	359	A	V
		5352	59.22	-14.78	74	51.24	32.71	13.19	37.92	100	359	P	V
		5350.08	47.77	-6.23	54	39.8	32.7	13.19	37.92	100	359	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		7022	61.15	-7.05	68.2	46.86	36.09	16.57	38.37	-	-	P	H
		10540	51.48	-16.72	68.2	34.98	38.92	19.12	41.54	-	-	P	H
		15810	51.05	-22.95	74	34.2	37.81	23.5	44.46	121	10	P	H
		15810	41.96	-12.04	54	25.11	37.81	23.5	44.46	121	10	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		7022	57.48	-10.72	68.2	43.19	36.09	16.57	38.37	-	-	P	V
5270MHz		10540	52.37	-15.83	68.2	35.87	38.92	19.12	41.54	-	-	P	V
		15810	51.62	-22.38	74	34.77	37.81	23.5	44.46	124	2	P	V
		15810	42.58	-11.42	54	25.73	37.81	23.5	44.46	124	2	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		7077	60.24	-7.96	68.2	45.77	36.31	16.57	38.41	-	-	P	H
		10620	52.22	-21.78	74	35.53	39.1	19.2	41.61	125	51	P	H
		10620	42.64	-11.36	54	25.95	39.1	19.2	41.61	125	51	A	H
		15930	52.31	-21.69	74	35.12	37.93	23.6	44.34	315	33	P	H
		15930	42.44	-11.56	54	25.25	37.93	23.6	44.34	315	33	A	H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		7077	58.47	-9.73	68.2	44	36.31	16.57	38.41	-	-	P	V
5310MHz		10620	52.58	-21.42	74	35.89	39.1	19.2	41.61	241	68	P	V
		10620	42.42	-11.58	54	25.73	39.1	19.2	41.61	241	68	A	V
		15930	52.04	-21.96	74	34.85	37.93	23.6	44.34	295	43	P	V
		15930	42.7	-11.3	54	25.51	37.93	23.6	44.34	295	43	A	V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 2 5250~5350MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/62 CH 62 5310MHz		5139.74	56.09	-17.91	74	48.04	32.92	12.9	37.77	197	44	P	H
		5148.92	38.75	-15.25	54	30.72	32.9	12.91	37.78	197	44	A	H
	*	5310	111.39	-	-	103.3	32.86	13.12	37.89	197	44	P	H
	*	5310	104.07	-	-	95.98	32.86	13.12	37.89	197	44	A	H
		5355.12	72.38	-1.62	74	64.4	32.72	13.19	37.93	197	44	P	H
		5354.88	50.18	-3.82	54	42.2	32.72	13.19	37.93	197	44	A	H
		5142.12	53.01	-20.99	74	44.95	32.92	12.91	37.77	160	32	P	V
		5008.16	39.04	-14.96	54	30.87	33.07	12.78	37.68	160	32	A	V
	*	5310	110.93	-	-	102.84	32.86	13.12	37.89	160	32	P	V
	*	5310	103.03	-	-	94.94	32.86	13.12	37.89	160	32	A	V
		5356.56	69.42	-4.58	74	61.43	32.73	13.19	37.93	100	32	P	V
		5350.56	47.84	-6.16	54	39.87	32.7	13.19	37.92	100	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5141.3	53.71	-20.29	74	45.66	32.92	12.9	37.77	201	40	P	H
		5150	43.01	-10.99	54	34.98	32.9	12.91	37.78	201	40	A	H
	*	5290	105.9	-	-	97.78	32.9	13.1	37.88	201	40	P	H
	*	5290	97.9	-	-	89.78	32.9	13.1	37.88	201	40	A	H
		5350.08	61.93	-12.07	74	53.96	32.7	13.19	37.92	201	40	P	H
		5350.08	52.62	-1.38	54	44.65	32.7	13.19	37.92	201	40	A	H
		5029.1	48.87	-25.13	74	40.78	32.98	12.8	37.69	159	360	P	V
		5148.8	38.67	-15.33	54	30.64	32.9	12.91	37.78	159	360	A	V
	*	5290	104.24	-	-	96.12	32.9	13.1	37.88	159	360	P	V
	*	5290	95.59	-	-	87.47	32.9	13.1	37.88	159	360	A	V
		5353.92	59.24	-14.76	74	51.25	32.72	13.19	37.92	159	360	P	V
		5354.4	49.43	-4.57	54	41.45	32.72	13.19	37.93	159	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5760	51.97	-16.23	68.2	42.39	33.84	13.71	37.97	-	-	P	H
		7053.3	60.45	-7.75	68.2	46.05	36.21	16.58	38.39	-	-	P	H
		10580	50.44	-17.76	68.2	33.81	39.04	19.16	41.57	-	-	P	H
		15870	52.25	-21.75	74	35.23	37.87	23.55	44.4	400	33	P	H
		15870	41.17	-12.83	54	24.15	37.87	23.55	44.4	400	33	A	H
													H
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													H
													H
													H
													H
													H
		5758	49.42	-18.78	68.2	39.86	33.83	13.7	37.97	-	-	P	V
		7053.3	58.77	-9.43	68.2	44.37	36.21	16.58	38.39	-	-	P	V
		10580	51.63	-16.57	68.2	35	39.04	19.16	41.57	-	-	P	V
		15870	51.01	-22.99	74	33.99	37.87	23.55	44.4	100	82	P	V
		15870	41.15	-12.85	54	24.13	37.87	23.55	44.4	100	82	A	V
													V
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													V

Remark

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

Band 2 5250~5350MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/66 CH 58 5290MHz		5108.3	62.67	-11.33	74	54.57	32.98	12.87	37.75	186	44	P	H
		5149.4	41.94	-12.06	54	33.91	32.9	12.91	37.78	186	44	A	H
	*	5290	109.22	-	-	101.1	32.9	13.1	37.88	186	44	P	H
	*	5290	100.02	-	-	91.9	32.9	13.1	37.88	186	44	A	H
		5385.84	72.55	-1.45	74	64.42	32.84	13.24	37.95	186	44	P	H
		5380.32	50.28	-3.72	54	42.17	32.82	13.23	37.94	186	44	A	H
		5136.2	60.08	-13.92	74	52.02	32.93	12.9	37.77	102	33	P	V
		5150	40.94	-13.06	54	32.91	32.9	12.91	37.78	102	33	A	V
	*	5290	107.7	-	-	99.58	32.9	13.1	37.88	102	33	P	V
	*	5290	100.09	-	-	91.97	32.9	13.1	37.88	102	33	A	V
		5384.4	68.44	-5.56	74	60.31	32.84	13.24	37.95	102	33	P	V
		5350.08	47.14	-6.86	54	39.17	32.7	13.19	37.92	102	33	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5458	53.99	-20.01	74	45.68	32.98	13.33	38	110	29	P	H
		5470	64.7	-3.5	68.2	56.41	32.96	13.34	38.01	110	29	P	H
		5460	44.55	-9.45	54	36.24	32.98	13.33	38	110	29	A	H
	*	5500	116.95	-	-	108.7	32.9	13.38	38.03	110	29	P	H
	*	5500	110.27	-	-	102.02	32.9	13.38	38.03	110	29	A	H
													H
		5459.6	50.11	-23.89	74	41.8	32.98	13.33	38	205	355	P	V
		5467.6	61.08	-7.12	68.2	52.79	32.96	13.34	38.01	205	355	P	V
		5460	40.99	-13.01	54	32.68	32.98	13.33	38	205	355	A	V
	*	5500	110.29	-	-	102.04	32.9	13.38	38.03	205	355	P	V
	*	5500	104.23	-	-	95.98	32.9	13.38	38.03	205	355	A	V
													V
802.11a CH 116 5580MHz		5429.44	49.11	-24.89	74	40.84	32.96	13.29	37.98	185	42	P	H
		5462.8	50.02	-18.18	68.2	41.72	32.97	13.33	38	185	42	P	H
		5425.84	40.62	-13.38	54	32.36	32.95	13.29	37.98	185	42	A	H
	*	5580	116.9	-	-	108.36	33.08	13.47	38.01	185	42	P	H
	*	5580	109.96	-	-	101.42	33.08	13.47	38.01	185	42	A	H
		5736.02	49.02	-19.18	68.2	39.63	33.69	13.67	37.97	185	42	P	H
		5450.56	46.52	-27.48	74	38.19	33	13.32	37.99	123	23	P	V
		5463.28	45.7	-22.5	68.2	37.4	32.97	13.33	38	123	23	P	V
		5459.92	36.84	-17.16	54	28.53	32.98	13.33	38	123	23	A	V
	*	5580	112.29	-	-	103.75	33.08	13.47	38.01	123	23	P	V
	*	5580	105.73	-	-	97.19	33.08	13.47	38.01	123	23	A	V
		5755.55	48.48	-19.72	68.2	38.93	33.82	13.7	37.97	123	23	P	V

802.11a CH 140 5700MHz	*	5700	114.95	-	-	105.91	33.4	13.62	37.98	150	44	P	H
	*	5700	109.06	-	-	100.02	33.4	13.62	37.98	150	44	A	H
		5725	64.96	-3.24	68.2	55.68	33.6	13.66	37.98	150	44	P	H
													H
													H
													H
	*	5700	109.72	-	-	100.68	33.4	13.62	37.98	101	351	P	V
	*	5700	103.25	-	-	94.21	33.4	13.62	37.98	101	351	A	V
		5727.48	58.9	-9.3	68.2	49.6	33.62	13.66	37.98	101	351	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5760	49.01	-19.19	68.2	39.43	33.84	13.71	37.97	-	-	P	H
		6600	50.83	-17.37	68.2	38.4	35.8	14.7	38.07	-	-	P	H
		11000	54.1	-19.9	74	37.62	38.9	19.54	41.96	107	50	P	H
		11000	43.56	-10.44	54	27.08	38.9	19.54	41.96	107	50	A	H
		16500	51.52	-16.68	68.2	33.1	38.6	24.03	44.21	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		5758	49.3	-18.9	68.2	39.74	33.83	13.7	37.97	-	-	P	V
		6600	53.11	-15.09	68.2	40.68	35.8	14.7	38.07	-	-	P	V
		11000	53.24	-20.76	74	36.76	38.9	19.54	41.96	291	43	P	V
		11000	43.01	-10.99	54	26.53	38.9	19.54	41.96	291	43	A	V
		16500	51.92	-16.28	68.2	33.5	38.6	24.03	44.21	-	-	P	V
													V
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													V
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													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 116 5580MHz		7812	50.73	-17.47	68.2	35.81	37.1	16.85	39.03	-	-	P	H
		11160	58.43	-15.57	74	41.89	39.06	19.66	42.18	108	47	P	H
		11160	47.82	-6.18	54	31.28	39.06	19.66	42.18	108	47	A	H
		16740	53.55	-14.65	68.2	35.27	38.44	24.21	44.37	211	114	P	H
													H
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													H
													H
													H
													H
													H
													H
		7812	51.2	-17	68.2	36.28	37.1	16.85	39.03	-	-	P	V
		11160	55.1	-18.9	74	38.56	39.06	19.66	42.18	190	11	P	V
		11160	45.01	-8.99	54	28.47	39.06	19.66	42.18	190	11	A	V
		16740	53.52	-14.68	68.2	35.24	38.44	24.21	44.37	302	8	P	V
													V
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													V
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													V
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													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz		6840	49.37	-18.83	68.2	36.73	35.9	14.98	38.24	-	-	P	H
		11400	53.45	-20.55	74	36.7	39.4	19.86	42.51	100	86	P	H
		11400	43.69	-10.31	54	26.94	39.4	19.86	42.51	100	86	A	H
		17100	51.1	-17.1	68.2	33.26	38	24.48	44.64	-	-	P	H
													H
													H
													H
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													H
													H
													H
		6840	50.26	-17.94	68.2	37.62	35.9	14.98	38.24	-	-	P	V
		11400	53.03	-20.97	74	36.28	39.4	19.86	42.51	111	17	P	V
		11400	42.51	-11.49	54	25.76	39.4	19.86	42.51	111	17	A	V
		17100	51.24	-16.96	68.2	33.4	38	24.48	44.64	-	-	P	V
													V
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Remark

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

Band 3 - 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5449.84	61.94	-12.06	74	53.61	33	13.32	37.99	153	27	P	H
		5463.28	62.46	-5.74	68.2	54.16	32.97	13.33	38	153	27	P	H
		5459.6	46.51	-7.49	54	38.2	32.98	13.33	38	153	27	A	H
	*	5500	116.06	-	-	107.81	32.9	13.38	38.03	153	27	P	H
	*	5500	108.64	-	-	100.39	32.9	13.38	38.03	153	27	A	H
		5454.96	53.19	-20.81	74	44.88	32.99	13.32	38	122	359	P	V
		5468.72	64.06	-4.14	68.2	55.77	32.96	13.34	38.01	122	359	P	V
		5460	41.98	-12.02	54	33.67	32.98	13.33	38	122	359	A	V
	*	5500	110.07	-	-	101.82	32.9	13.38	38.03	122	359	P	V
	*	5500	103.37	-	-	95.12	32.9	13.38	38.03	122	359	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5421.04	48.81	-25.19	74	40.56	32.94	13.28	37.97	182	41	P	H
		5468.8	48.33	-19.87	68.2	40.04	32.96	13.34	38.01	182	41	P	H
		5425.84	39.97	-14.03	54	31.71	32.95	13.29	37.98	182	41	A	H
	*	5580	117.07	-	-	108.53	33.08	13.47	38.01	182	41	P	H
	*	5580	110.14	-	-	101.6	33.08	13.47	38.01	182	41	A	H
		5742.635	48.94	-19.26	68.2	39.49	33.74	13.68	37.97	182	41	P	H
		5445.52	46.15	-27.85	74	37.84	32.99	13.31	37.99	154	355	P	V
		5462.08	45.88	-22.32	68.2	37.57	32.98	13.33	38	154	355	P	V
		5459.68	37.33	-16.67	54	29.02	32.98	13.33	38	154	355	A	V
	*	5580	113.13	-	-	104.59	33.08	13.47	38.01	154	355	P	V
	*	5580	105.84	-	-	97.3	33.08	13.47	38.01	154	355	A	V
		5753.345	48.39	-19.81	68.2	38.85	33.81	13.7	37.97	154	355	P	V

802.11ax HE20 Full CH 140 5700MHz	*	5700	115.4	-	-	106.36	33.4	13.62	37.98	202	47	P	H
	*	5700	107.95	-	-	98.91	33.4	13.62	37.98	202	47	A	H
		5725.16	66.28	-1.92	68.2	57	33.6	13.66	37.98	202	47	P	H
													H
													H
													H
	*	5700	111.39	-	-	102.35	33.4	13.62	37.98	150	69	P	V
	*	5700	102.53	-	-	93.49	33.4	13.62	37.98	150	69	A	V
		5725.24	63.89	-4.31	68.2	54.61	33.6	13.66	37.98	150	69	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		5760	50.01	-18.19	68.2	40.43	33.84	13.71	37.97	-	-	P	H
		6600	50.64	-17.56	68.2	38.21	35.8	14.7	38.07	-	-	P	H
		11000	53.93	-20.07	74	37.45	38.9	19.54	41.96	107	50	P	H
		11000	43.32	-10.68	54	26.84	38.9	19.54	41.96	107	50	A	H
		16500	52.75	-15.45	68.2	34.33	38.6	24.03	44.21	-	-	P	H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		5760	48.76	-19.44	68.2	39.18	33.84	13.71	37.97	-	-	P	V
5500MHz		6600	51.76	-16.44	68.2	39.33	35.8	14.7	38.07	-	-	P	V
		11000	52.43	-21.57	74	35.95	38.9	19.54	41.96	298	41	P	V
		11000	42.89	-11.11	54	26.41	38.9	19.54	41.96	298	41	A	V
		16500	52.44	-15.76	68.2	34.02	38.6	24.03	44.21	-	-	P	V
													V
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													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin (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)
		7812	53.05	-15.15	68.2	38.13	37.1	16.85	39.03	-	-	P	H
		11160	57.57	-16.43	74	41.03	39.06	19.66	42.18	100	47	P	H
		11160	46.72	-7.28	54	30.18	39.06	19.66	42.18	100	47	A	H
		16740	52.91	-15.29	68.2	34.63	38.44	24.21	44.37	189	149	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		7812	52.85	-15.35	68.2	37.93	37.1	16.85	39.03	-	-	P	V
5580MHz		11160	44.96	-29.04	74	28.42	39.06	19.66	42.18	194	10	P	V
		11160	44.28	-9.72	54	27.74	39.06	19.66	42.18	194	10	A	V
		16740	53.38	-14.82	68.2	35.1	38.44	24.21	44.37	303	40	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		6840	51.16	-17.04	68.2	38.52	35.9	14.98	38.24	-	-	P	H
		11400	53.78	-20.22	74	37.03	39.4	19.86	42.51	103	85	P	H
		11400	43.08	-10.92	54	26.33	39.4	19.86	42.51	103	85	A	H
		17100	52.54	-15.66	68.2	34.7	38	24.48	44.64	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		6840	52.55	-15.65	68.2	39.91	35.9	14.98	38.24	-	-	P	V
5700MHz		11400	52.14	-21.86	74	35.39	39.4	19.86	42.51	105	19	P	V
		11400	42.22	-11.78	54	25.47	39.4	19.86	42.51	105	19	A	V
		17100	52.24	-15.96	68.2	34.4	38	24.48	44.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 100 5500MHz		5457.36	58.85	-15.15	74	50.53	32.99	13.33	38	190	57	P	H
		5469.36	64.76	-3.44	68.2	56.47	32.96	13.34	38.01	190	57	P	H
		5458.96	39.28	-14.72	54	30.97	32.98	13.33	38	190	57	A	H
	*	5500	113.93	-	-	105.68	32.9	13.38	38.03	190	57	P	H
	*	5500	106.62	-	-	98.37	32.9	13.38	38.03	190	57	A	H
													H
		5459.6	55.3	-18.7	74	46.99	32.98	13.33	38	149	360	P	V
		5469.36	61.75	-6.45	68.2	53.46	32.96	13.34	38.01	149	360	P	V
		5459.44	37.96	-16.04	54	29.65	32.98	13.33	38	149	360	A	V
	*	5500	111.17	-	-	102.92	32.9	13.38	38.03	149	360	P	V
	*	5500	103.67	-	-	95.42	32.9	13.38	38.03	149	360	A	V
													V
802.11ax HE20 Partial 106/54 CH 140 5700MHz	*	5700	115.45	-	-	106.41	33.4	13.62	37.98	146	359	P	H
	*	5700	108.07	-	-	99.03	33.4	13.62	37.98	146	359	A	H
		5727.08	64.29	-3.91	68.2	54.99	33.62	13.66	37.98	146	359	P	H
													H
													H
													H
	*	5700	108.85	-	-	99.81	33.4	13.62	37.98	100	360	P	V
	*	5700	101.82	-	-	92.78	33.4	13.62	37.98	100	360	A	V
		5726.12	59.83	-8.37	68.2	50.54	33.61	13.66	37.98	100	360	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 102 5510MHz		5459.92	65.5	-8.5	74	57.19	32.98	13.33	38	139	27	P	H
		5468.56	64.7	-3.5	68.2	56.41	32.96	13.34	38.01	139	27	P	H
		5459.92	49.14	-4.86	54	40.83	32.98	13.33	38	139	27	A	H
	*	5510	113.56	-	-	105.3	32.9	13.39	38.03	139	27	P	H
	*	5510	105.21	-	-	96.95	32.9	13.39	38.03	139	27	A	H
		5759.96	49.18	-19.02	68.2	39.6	33.84	13.71	37.97	139	27	P	H
		5459.92	54.56	-19.44	74	46.25	32.98	13.33	38	126	0	P	V
		5470	60.68	-7.52	68.2	52.39	32.96	13.34	38.01	126	0	P	V
		5459.92	44.42	-9.58	54	36.11	32.98	13.33	38	126	0	A	V
	*	5510	108.64	-	-	100.38	32.9	13.39	38.03	126	0	P	V
	*	5510	99.81	-	-	91.55	32.9	13.39	38.03	126	0	A	V
		5746.1	47.85	-20.35	68.2	38.36	33.77	13.69	37.97	126	0	P	V
802.11ax HE40 Full CH 110 5550MHz		5456.32	57.78	-16.22	74	49.47	32.99	13.32	38	110	30	P	H
		5468.8	61.76	-6.44	68.2	53.47	32.96	13.34	38.01	110	30	P	H
		5459.68	45.67	-8.33	54	37.36	32.98	13.33	38	110	30	A	H
	*	5550	115.65	-	-	107.34	32.9	13.43	38.02	110	30	P	H
	*	5550	107.63	-	-	99.32	32.9	13.43	38.02	110	30	A	H
		5732.24	48.83	-19.37	68.2	39.47	33.66	13.67	37.97	110	30	P	H
		5458.24	53.36	-20.64	74	45.05	32.98	13.33	38	179	354	P	V
		5465.92	55.68	-12.52	68.2	47.38	32.97	13.34	38.01	179	354	P	V
		5457.76	42.04	-11.96	54	33.73	32.98	13.33	38	179	354	A	V
	*	5550	111.8	-	-	103.49	32.9	13.43	38.02	179	354	P	V
	*	5550	102.53	-	-	94.22	32.9	13.43	38.02	179	354	A	V
		5760.275	48.82	-19.38	68.2	39.24	33.84	13.71	37.97	179	354	P	V

802.11ax HE40 Full CH 134 5670MHz		5366.45	47.18	-26.82	74	39.13	32.77	13.21	37.93	155	51	P	H
		5465.85	46.47	-21.73	68.2	38.17	32.97	13.34	38.01	155	51	P	H
		5366.1	38.08	-15.92	54	30.04	32.76	13.21	37.93	155	51	A	H
	*	5670	115.51	-	-	106.64	33.28	13.58	37.99	155	51	P	H
	*	5670	105.4	-	-	96.53	33.28	13.58	37.99	155	51	A	H
		5725.275	66.84	-1.36	68.2	57.56	33.6	13.66	37.98	155	51	P	H
		5443.1	46.57	-27.43	74	38.26	32.99	13.31	37.99	150	66	P	V
		5461.65	45.08	-23.12	68.2	36.77	32.98	13.33	38	150	66	P	V
		5364.7	36.86	-17.14	54	28.82	32.76	13.21	37.93	150	66	A	V
	*	5670	106.76	-	-	97.89	33.28	13.58	37.99	150	66	P	V
	*	5670	99.43	-	-	90.56	33.28	13.58	37.99	150	66	A	V
		5725	61.12	-7.08	68.2	51.84	33.6	13.66	37.98	150	66	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	51.8	-22.2	74	35.31	38.92	19.56	41.99	102	50	P	H
		11020	42.87	-11.13	54	26.38	38.92	19.56	41.99	102	50	A	H
		16530	52.08	-16.12	68.2	33.72	38.54	24.05	44.23	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	51.58	-22.42	74	35.09	38.92	19.56	41.99	301	39	P	V
5510MHz		11020	42.37	-11.63	54	25.88	38.92	19.56	41.99	301	39	A	V
		16530	52.02	-16.18	68.2	33.66	38.54	24.05	44.23	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11100	51.07	-22.93	74	34.55	39	19.62	42.1	358	12	P	H
		11100	41.74	-12.26	54	25.22	39	19.62	42.1	358	12	A	H
		16650	51.52	-16.68	68.2	33.18	38.5	24.15	44.31	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	50.64	-23.36	74	34.12	39	19.62	42.1	144	2	P	V
5550MHz		11100	41.85	-12.15	54	25.33	39	19.62	42.1	144	2	A	V
		16650	51.18	-17.02	68.2	32.84	38.5	24.15	44.31	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11340	50.46	-23.54	74	33.79	39.28	19.82	42.43	100	85	P	H
		11340	43.03	-10.97	54	26.36	39.28	19.82	42.43	100	85	A	H
		17010	51.5	-16.7	68.2	33.64	38	24.42	44.56	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	50.44	-23.56	74	33.77	39.28	19.82	42.43	100	27	P	V
5670MHz		11340	42.78	-11.22	54	26.11	39.28	19.82	42.43	100	27	A	V
		17010	52.15	-16.05	68.2	34.29	38	24.42	44.56	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 102 5510MHz		5455.6	65.12	-8.88	74	56.81	32.99	13.32	38	184	42	P	H
		5470	65.77	-2.43	68.2	57.48	32.96	13.34	38.01	184	42	P	H
		5450.8	41.17	-12.83	54	32.84	33	13.32	37.99	184	42	A	H
	*	5510	113.77	-	-	105.51	32.9	13.39	38.03	184	42	P	H
	*	5510	105.34	-	-	97.08	32.9	13.39	38.03	184	42	A	H
		5759.96	50.54	-17.66	68.2	40.96	33.84	13.71	37.97	184	42	P	H
		5455.36	58.42	-15.58	74	50.11	32.99	13.32	38	100	30	P	V
		5469.52	59.71	-8.49	68.2	51.42	32.96	13.34	38.01	100	30	P	V
		5450.56	37.89	-16.11	54	29.56	33	13.32	37.99	100	30	A	V
	*	5510	106.31	-	-	98.05	32.9	13.39	38.03	100	30	P	V
	*	5510	98.54	-	-	90.28	32.9	13.39	38.03	100	30	A	V
		5759.645	48.34	-19.86	68.2	38.76	33.84	13.71	37.97	100	30	P	V
802.11ax HE40 Partial 242/62 CH 134 5670MHz		5456.05	47.88	-26.12	74	39.57	32.99	13.32	38	101	51	P	H
		5462.7	47.52	-20.68	68.2	39.22	32.97	13.33	38	101	51	P	H
		5377.65	37.94	-16.06	54	29.84	32.81	13.23	37.94	101	51	A	H
	*	5670	113.56	-	-	104.69	33.28	13.58	37.99	101	51	P	H
	*	5670	105.53	-	-	96.66	33.28	13.58	37.99	101	51	A	H
		5727.025	63.23	-4.97	68.2	53.93	33.62	13.66	37.98	101	51	P	H
		5364	46.49	-27.51	74	38.45	32.76	13.21	37.93	102	360	P	V
		5463.4	46.25	-21.95	68.2	37.95	32.97	13.33	38	102	360	P	V
		5374.85	36.76	-17.24	54	28.68	32.8	13.22	37.94	102	360	A	V
	*	5670	106.84	-	-	97.97	33.28	13.58	37.99	102	360	P	V
	*	5670	99.31	-	-	90.44	33.28	13.58	37.99	102	360	A	V
		5725.275	62.6	-5.6	68.2	53.32	33.6	13.66	37.98	102	360	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5458.96	60.21	-13.79	74	51.9	32.98	13.33	38	144	40	P	H
		5468.56	62.07	-6.13	68.2	53.78	32.96	13.34	38.01	144	40	P	H
		5459.2	51.57	-2.43	54	43.26	32.98	13.33	38	144	40	A	H
	*	5530	109.34	-	-	101.05	32.9	13.41	38.02	144	40	P	H
	*	5530	100.63	-	-	92.34	32.9	13.41	38.02	144	40	A	H
		5759.96	49.59	-18.61	68.2	40.01	33.84	13.71	37.97	144	40	P	H
		5450.56	53.97	-20.03	74	45.64	33	13.32	37.99	100	354	P	V
		5460.16	52.64	-15.56	68.2	44.33	32.98	13.33	38	100	354	P	V
		5459.44	44.77	-9.23	54	36.46	32.98	13.33	38	100	354	A	V
	*	5530	105.21	-	-	96.92	32.9	13.41	38.02	100	354	P	V
	*	5530	95.13	-	-	86.84	32.9	13.41	38.02	100	354	A	V
		5731.925	47.13	-21.07	68.2	37.77	33.66	13.67	37.97	100	354	P	V
802.11ax HE80 Full CH 122 5610MHz		5458.5	61.55	-12.45	74	53.24	32.98	13.33	38	117	32	P	H
		5468.65	62.63	-5.57	68.2	54.34	32.96	13.34	38.01	117	32	P	H
		5459.9	51.48	-2.52	54	43.17	32.98	13.33	38	117	32	A	H
	*	5610	110.66	-	-	101.96	33.2	13.5	38	117	32	P	H
	*	5610	102.48	-	-	93.78	33.2	13.5	38	117	32	A	H
		5729.475	61.17	-7.03	68.2	51.84	33.64	13.66	37.97	117	32	P	H
		5459.9	53.96	-20.04	74	45.65	32.98	13.33	38	113	350	P	V
		5467.6	55.95	-12.25	68.2	47.66	32.96	13.34	38.01	113	350	P	V
		5459.9	45.81	-8.19	54	37.5	32.98	13.33	38	113	350	A	V
	*	5610	106.86	-	-	98.16	33.2	13.5	38	113	350	P	V
	*	5610	98.83	-	-	90.13	33.2	13.5	38	113	350	A	V
		5730.875	63.06	-5.14	68.2	53.71	33.65	13.67	37.97	113	350	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
		5760	50.18	-18.02	68.2	40.6	33.84	13.71	37.97	-	-	P	H
		11060	51.5	-22.5	74	34.99	38.96	19.59	42.04	100	83	P	H
		11060	40.91	-13.09	54	24.4	38.96	19.59	42.04	100	83	A	H
		16590	52.04	-16.16	68.2	33.79	38.42	24.1	44.27	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		5760	49.26	-18.94	68.2	39.68	33.84	13.71	37.97	-	-	P	V
5530MHz		11060	50.52	-23.48	74	34.01	38.96	19.59	42.04	200	24	P	V
		11060	40.89	-13.11	54	24.38	38.96	19.59	42.04	200	24	A	V
		16590	51.55	-16.65	68.2	33.3	38.42	24.1	44.27	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11220	50.23	-23.77	74	33.66	39.12	19.71	42.26	121	245	P	H
		11220	41.58	-12.42	54	25.01	39.12	19.71	42.26	121	245	A	H
		16830	51.58	-16.62	68.2	33.59	38.14	24.28	44.43	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	51.11	-22.89	74	34.54	39.12	19.71	42.26	245	11	P	V
5610MHz		11220	41.7	-12.3	54	25.13	39.12	19.71	42.26	245	11	A	V
		16830	51.96	-16.24	68.2	33.97	38.14	24.28	44.43	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 106 5530MHz		5420.08	64.53	-9.47	74	56.28	32.94	13.28	37.97	172	42	P	H
		5469.52	67.03	-1.17	68.2	58.74	32.96	13.34	38.01	172	42	P	H
		5459.92	45.11	-8.89	54	36.8	32.98	13.33	38	172	42	A	H
	*	5530	110.83	-	-	102.54	32.9	13.41	38.02	172	42	P	H
	*	5530	102.51	-	-	94.22	32.9	13.41	38.02	172	42	A	H
		5759.645	48.87	-19.33	68.2	39.29	33.84	13.71	37.97	172	42	P	H
		5412.4	60.25	-13.75	74	52.03	32.92	13.27	37.97	151	2	P	V
		5466.16	58.7	-9.5	68.2	50.4	32.97	13.34	38.01	151	2	P	V
		5456.08	39.29	-14.71	54	30.98	32.99	13.32	38	151	2	A	V
	*	5530	105.39	-	-	97.1	32.9	13.41	38.02	151	2	P	V
	*	5530	96.78	-	-	88.49	32.9	13.41	38.02	151	2	A	V
		5757.755	48.5	-19.7	68.2	38.94	33.83	13.7	37.97	151	2	P	V
802.11ax HE80 Partial 484/66 CH 122 5610MHz		5451.15	67.79	-6.21	74	59.46	33	13.32	37.99	183	42	P	H
		5462	65.88	-2.32	68.2	57.57	32.98	13.33	38	183	42	P	H
		5456.4	45.59	-8.41	54	37.28	32.99	13.32	38	183	42	A	H
	*	5610	116.11	-	-	107.41	33.2	13.5	38	183	42	P	H
	*	5610	107.67	-	-	98.97	33.2	13.5	38	183	42	A	H
		5725.45	65.68	-2.52	68.2	56.4	33.6	13.66	37.98	183	42	P	H
		5457.45	61.7	-12.3	74	53.38	32.99	13.33	38	160	360	P	V
		5461.65	61.45	-6.75	68.2	53.14	32.98	13.33	38	160	360	P	V
		5457.45	41.28	-12.72	54	32.96	32.99	13.33	38	160	360	A	V
	*	5610	108.01	-	-	99.31	33.2	13.5	38	160	360	P	V
	*	5610	100.43	-	-	91.73	33.2	13.5	38	160	360	A	V
		5725.45	60.92	-7.28	68.2	51.64	33.6	13.66	37.98	160	360	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5441.35	62.17	-11.83	74	53.87	32.98	13.31	37.99	151	41	P	H
		5470	61.07	-7.13	68.2	52.78	32.96	13.34	38.01	151	41	P	H
		5450.45	51.94	-2.06	54	43.61	33	13.32	37.99	151	41	A	H
	*	5570	104.56	-	-	96.09	33.02	13.46	38.01	151	41	P	H
	*	5570	96.62	-	-	88.15	33.02	13.46	38.01	151	41	A	H
		5742.005	53.23	-14.97	68.2	43.78	33.74	13.68	37.97	151	41	P	H
		5431.9	56.6	-17.4	74	48.32	32.96	13.3	37.98	100	13	P	V
		5463.05	54.73	-13.47	68.2	46.43	32.97	13.33	38	100	13	P	V
		5443.45	45.43	-8.57	54	37.12	32.99	13.31	37.99	100	13	A	V
	*	5570	101.07	-	-	92.6	33.02	13.46	38.01	100	13	P	V
	*	5570	91.47	-	-	83	33.02	13.46	38.01	100	13	A	V
		5742.32	52.57	-15.63	68.2	43.12	33.74	13.68	37.97	100	13	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	50.82	-23.18	74	34.22	39.28	19.89	42.57	350	233	P	H
		11440	40.61	-13.39	54	24.01	39.28	19.89	42.57	350	233	A	H
		17160	51.08	-17.12	68.2	33.32	37.94	24.52	44.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 114		11440	50.51	-23.49	74	33.91	39.28	19.89	42.57	350	270	P	V
5570MHz		11440	40.64	-13.36	54	24.04	39.28	19.89	42.57	350	270	A	V
		17160	51.06	-17.14	68.2	33.3	37.94	24.52	44.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 3 5470~5725MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		5441.35	66.27	-7.73	74	57.97	32.98	13.31	37.99	186	40	P	H
		5470	63.72	-4.48	68.2	55.43	32.96	13.34	38.01	186	40	P	H
		5441.35	51.21	-2.79	54	42.91	32.98	13.31	37.99	186	40	A	H
	*	5570	103.35	-	-	94.88	33.02	13.46	38.01	186	40	P	H
	*	5570	96.3	-	-	87.83	33.02	13.46	38.01	186	40	A	H
		5725.31	59.28	-8.92	68.2	50	33.6	13.66	37.98	186	40	P	H
		5448.35	63.54	-10.46	74	55.21	33	13.32	37.99	150	3	P	V
		5464.45	61.1	-7.1	68.2	52.8	32.97	13.33	38	150	3	P	V
		5448	48.65	-5.35	54	40.32	33	13.32	37.99	150	3	A	V
	*	5570	97.1	-	-	88.63	33.02	13.46	38.01	150	3	P	V
	*	5570	89.17	-	-	80.7	33.02	13.46	38.01	150	3	A	V
		5727.83	51.89	-16.31	68.2	42.59	33.62	13.66	37.98	150	3	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5419.81	47.13	-26.87	74	38.88	32.94	13.28	37.97	160	20	P	H
		5461.15	45.38	-22.82	68.2	37.07	32.98	13.33	38	160	20	P	H
		5408.5	40.91	-13.09	54	32.68	32.92	13.27	37.96	160	20	A	H
	*	5720	114.41	-	-	105.18	33.56	13.65	37.98	160	20	P	H
	*	5720	107.11	-	-	97.88	33.56	13.65	37.98	160	20	A	H
		5874.75	49.18	-19.02	68.2	38.94	34.3	13.88	37.94	160	20	P	H
		5362.87	46.54	-27.46	74	38.52	32.75	13.2	37.93	100	358	P	V
		5470	44.86	-23.34	68.2	36.57	32.96	13.34	38.01	100	358	P	V
		5408.89	38.18	-15.82	54	29.95	32.92	13.27	37.96	100	358	A	V
	*	5720	110.73	-	-	101.5	33.56	13.65	37.98	100	358	P	V
	*	5720	103.8	-	-	94.57	33.56	13.65	37.98	100	358	A	V
		5872.75	48.79	-19.41	68.2	38.55	34.3	13.88	37.94	100	358	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	53.03	-20.97	74	36.43	39.28	19.89	42.57	102	87	P	H
		11440	42.89	-11.11	54	26.29	39.28	19.89	42.57	102	87	A	H
		17160	51.75	-16.45	68.2	33.99	37.94	24.52	44.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	51.87	-22.13	74	35.27	39.28	19.89	42.57	100	15	P	V
		11440	41.9	-12.1	54	25.3	39.28	19.89	42.57	100	15	A	V
		17160	52.17	-16.03	68.2	34.41	37.94	24.52	44.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Band 3 - Straddle Channel

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 144 5720MHz		5416.3	51.47	-22.53	74	43.23	32.93	13.28	37.97	206	45	P	H
		5463.49	47.01	-21.19	68.2	38.71	32.97	13.33	38	206	45	P	H
		5416.3	42.38	-11.62	54	34.14	32.93	13.28	37.97	206	45	A	H
	*	5720	116.74	-	-	107.51	33.56	13.65	37.98	206	45	P	H
	*	5720	109.74	-	-	100.51	33.56	13.65	37.98	206	45	A	H
		5851.25	50.25	-17.95	68.2	40.06	34.3	13.84	37.95	206	45	P	H
		5369.11	46.12	-27.88	74	38.07	32.78	13.21	37.94	150	351	P	V
		5461.54	44.56	-23.64	68.2	36.25	32.98	13.33	38	150	351	P	V
		5416.69	37.28	-16.72	54	29.04	32.93	13.28	37.97	150	351	A	V
	*	5720	112.99	-	-	103.76	33.56	13.65	37.98	150	351	P	V
	*	5720	105.5	-	-	96.27	33.56	13.65	37.98	150	351	A	V
		5922	47.9	-20.3	68.2	37.57	34.3	13.96	37.93	150	351	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	52.11	-21.89	74	35.51	39.28	19.89	42.57	109	84	P	H
		11440	42.11	-11.89	54	25.51	39.28	19.89	42.57	109	84	A	H
		17160	51.49	-16.71	68.2	33.73	37.94	24.52	44.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	51.81	-22.19	74	35.21	39.28	19.89	42.57	100	17	P	V
5720MHz		11440	41.43	-12.57	54	24.83	39.28	19.89	42.57	100	17	A	V
		17160	52.21	-15.99	68.2	34.45	37.94	24.52	44.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 3 - Straddle Channel

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 142 5710MHz		5410.84	49.78	-24.22	74	41.56	32.92	13.27	37.97	109	29	P	H
		5469.34	46.87	-21.33	68.2	38.58	32.96	13.34	38.01	109	29	P	H
		5401.87	41.26	-12.74	54	33.06	32.9	13.26	37.96	109	29	A	H
	*	5710	109.77	-	-	100.63	33.48	13.64	37.98	109	29	P	H
	*	5710	102.71	-	-	93.57	33.48	13.64	37.98	109	29	A	H
		5884.75	49.72	-18.48	68.2	39.46	34.3	13.9	37.94	109	29	P	H
		5417.86	47.88	-26.12	74	39.63	32.94	13.28	37.97	100	27	P	V
		5469.34	45.09	-23.11	68.2	36.8	32.96	13.34	38.01	100	27	P	V
		5396.41	38.15	-15.85	54	29.97	32.89	13.25	37.96	100	27	A	V
	*	5710	104.82	-	-	95.68	33.48	13.64	37.98	100	27	P	V
	*	5710	96.73	-	-	87.59	33.48	13.64	37.98	100	27	A	V
		5943.5	49.6	-18.6	68.2	39.23	34.3	13.99	37.92	100	27	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	50.52	-23.48	74	33.85	39.34	19.87	42.54	213	24	P	H
		11420	41.52	-12.48	54	24.85	39.34	19.87	42.54	213	24	A	H
		17130	52.74	-15.46	68.2	34.94	37.97	24.5	44.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	50.53	-23.47	74	33.86	39.34	19.87	42.54	348	15	P	V
5710MHz		11420	41.64	-12.36	54	24.97	39.34	19.87	42.54	348	15	A	V
		17130	51.38	-16.82	68.2	33.58	37.97	24.5	44.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 3 Straddle Channel

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 138 5690MHz		5459.2	49.36	-24.64	74	41.05	32.98	13.33	38	102	28	P	H
		5460.37	49.48	-18.72	68.2	41.17	32.98	13.33	38	102	28	P	H
		5458.81	41.13	-12.87	54	32.82	32.98	13.33	38	102	28	A	H
	*	5690	109.71	-	-	100.72	33.36	13.61	37.98	102	28	P	H
	*	5690	100.85	-	-	91.86	33.36	13.61	37.98	102	28	A	H
		5858.2	51.02	-17.18	68.2	40.81	34.3	13.85	37.94	102	28	P	H
		5436.19	47.37	-26.63	74	39.08	32.97	13.3	37.98	182	357	P	V
		5467	48.71	-19.49	68.2	40.41	32.97	13.34	38.01	182	357	P	V
		5457.64	38.79	-15.21	54	30.48	32.98	13.33	38	182	357	A	V
	*	5690	100.94	-	-	91.95	33.36	13.61	37.98	182	357	P	V
	*	5690	92.91	-	-	83.92	33.36	13.61	37.98	182	357	A	V
		5882.5	49.8	-18.4	68.2	39.55	34.3	13.89	37.94	182	357	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	50.44	-23.56	74	33.72	39.36	19.84	42.48	218	52	P	H
		11380	41.83	-12.17	54	25.11	39.36	19.84	42.48	218	52	A	H
		17070	51.77	-16.43	68.2	33.92	38	24.46	44.61	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	50.58	-23.42	74	33.86	39.36	19.84	42.48	387	121	P	V
5690MHz		11380	41.67	-12.33	54	24.95	39.36	19.84	42.48	387	121	A	V
		17070	51.25	-16.95	68.2	33.4	38	24.46	44.61	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

WIFI 802.11ax HE40 Full (SHF @ 1m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full SHF		39370	51.02	-22.98	74	39.33	44.98	27.28	60.57	-	-	P	H
		39370	40.39	-13.61	54	28.7	44.98	27.28	60.57	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		39188	51.19	-22.81	74	39.67	44.83	27.23	60.54	-	-	P	V
		39188	40.37	-13.63	54	28.85	44.83	27.23	60.54	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 LF		49.55	35.88	-4.12	40	54.97	14.88	1.59	35.56	391	121	Q	H
		96.64	25.83	-17.67	43.5	43.65	15.65	2.04	35.51	-	-	P	H
		193.37	29.14	-14.36	43.5	46.8	14.92	2.76	35.34	-	-	P	H
		205.6	30.9	-12.6	43.5	48.19	15.19	2.83	35.31	-	-	P	H
		716.8	34.2	-11.8	46	35.98	27.11	4.97	33.86	-	-	P	H
		956	35.65	-10.35	46	32.01	30.98	5.61	32.95	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.17	25.27	-14.73	40	34.68	24.92	1.26	35.59	-	-	P	V
		49.55	36.21	-3.79	40	55.3	14.88	1.59	35.56	100	225	Q	V
		193.37	30.6	-12.9	43.5	48.26	14.92	2.76	35.34	-	-	P	V
		207.2	32.4	-11.1	43.5	49.61	15.26	2.84	35.31	-	-	P	V
		725.6	31.45	-14.55	46	32.63	27.64	4.99	33.81	-	-	P	V
		951.2	35.85	-10.15	46	32.4	30.82	5.6	32.97	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 5150MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Margin (dB)

= Leve(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Margin (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 D. Radiated Spurious Emission Plots

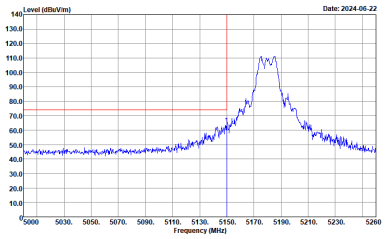
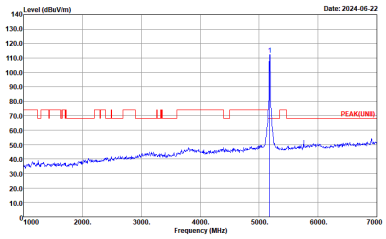
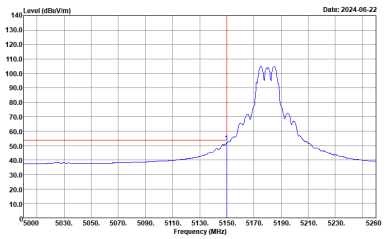
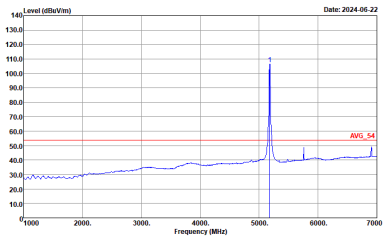
Test Engineer :	John Chuang, David Dai and Sam Chou	**Temperature :**	19.7~23.5°C
		Relative Humidity :	64.9~70.8%

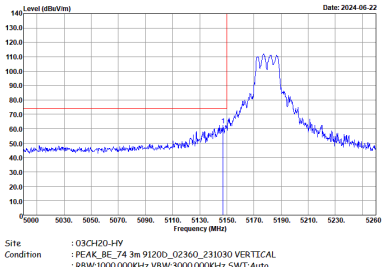
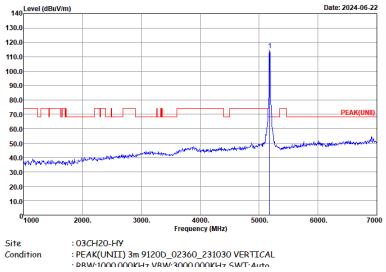
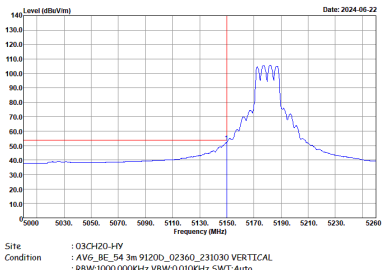
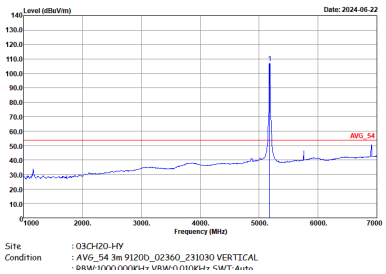
Note symbol

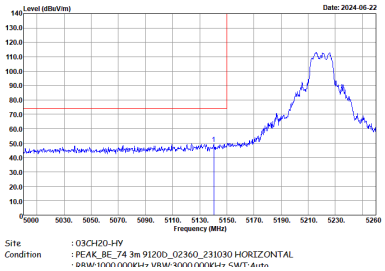
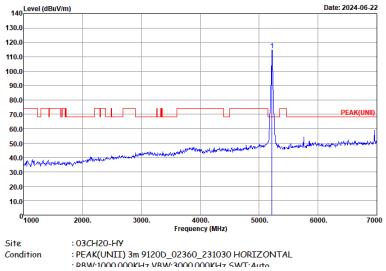
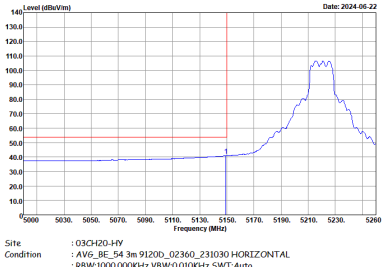
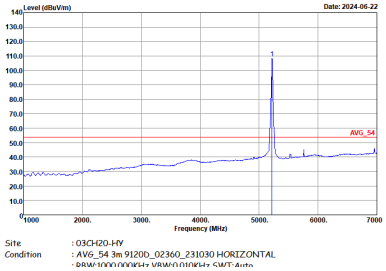
-L	**Low channel location**
-R	**High channel location**

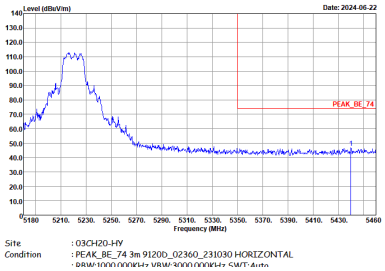
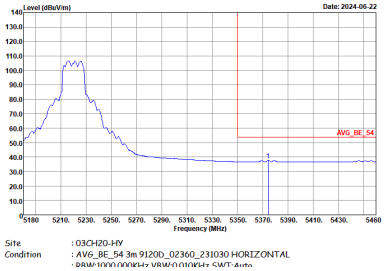
Band 1 - 5150~5250MHz

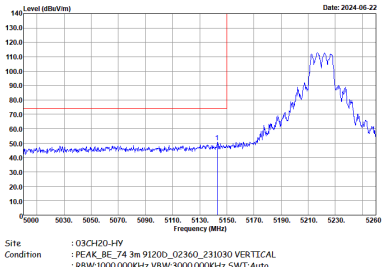
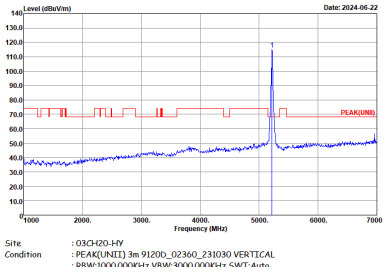
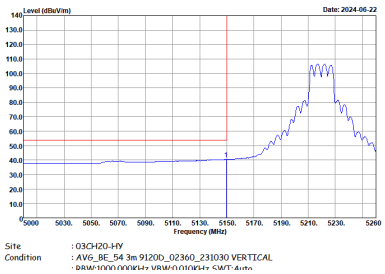
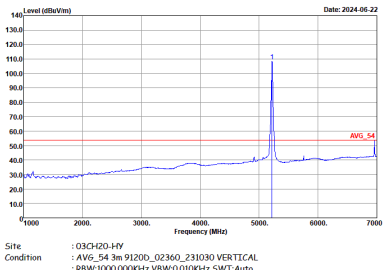
WIFI 802.11a (Band Edge @ 3m)

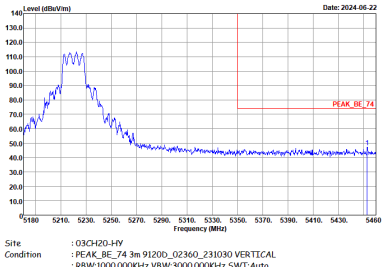
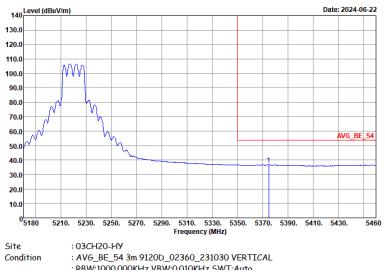
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

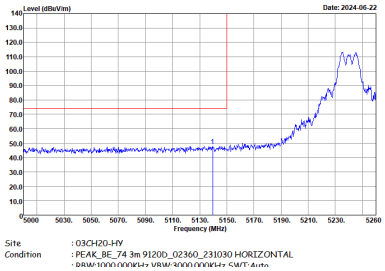
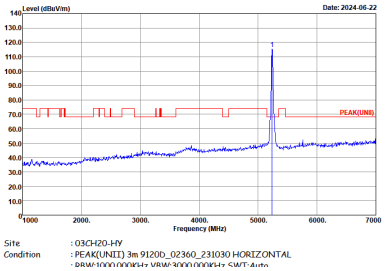
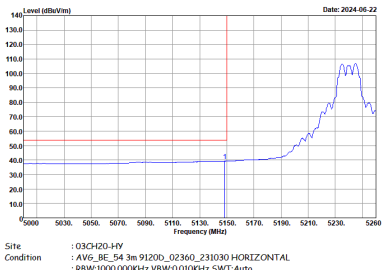
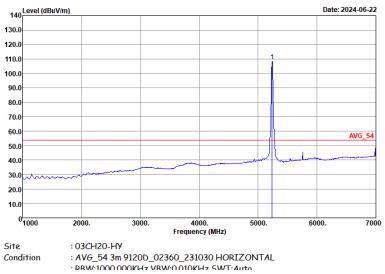
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

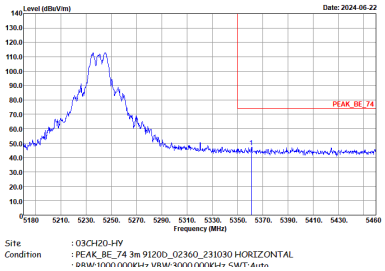
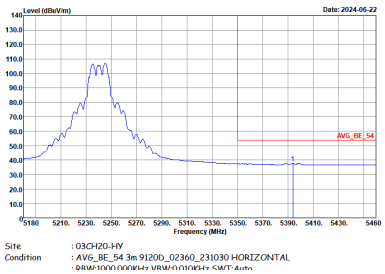
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

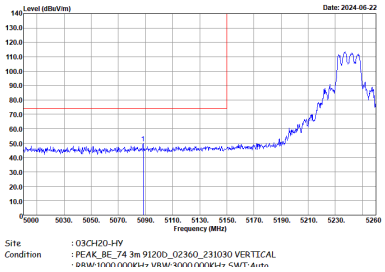
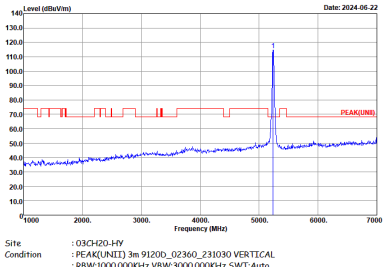
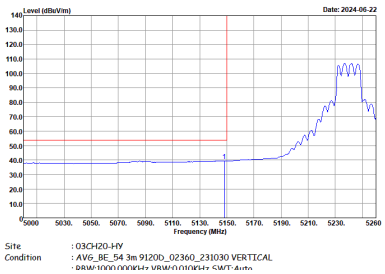
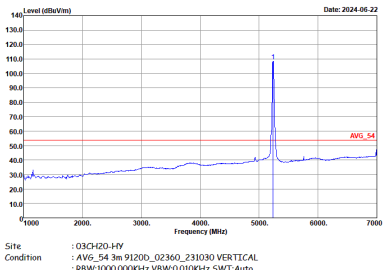
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

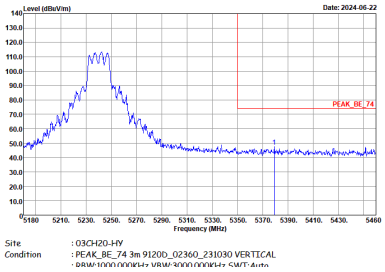
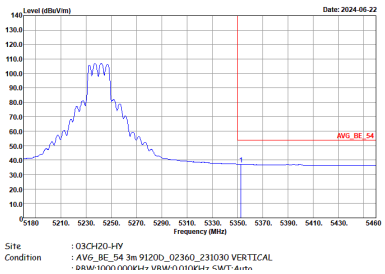
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

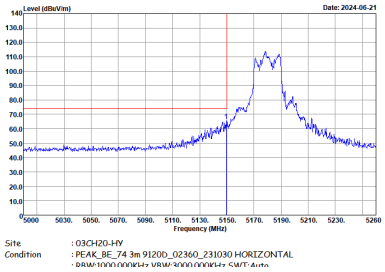
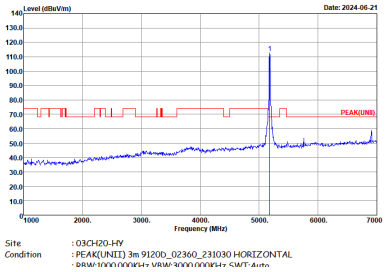
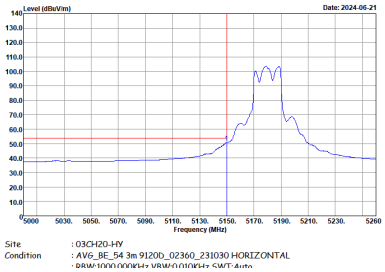
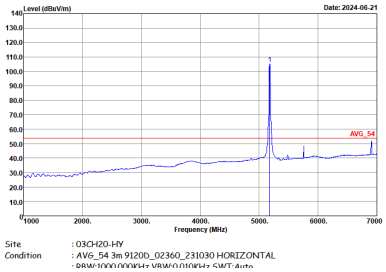
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

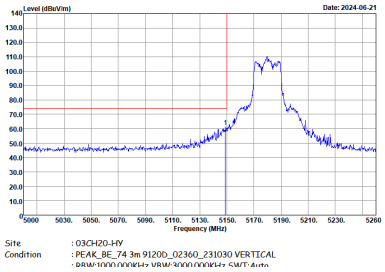
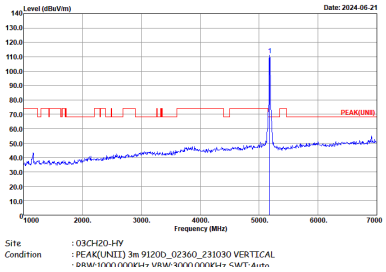
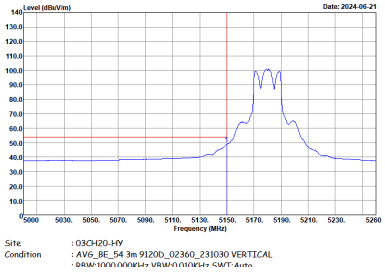
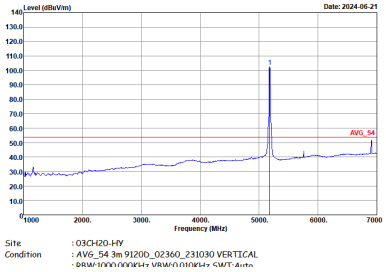
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

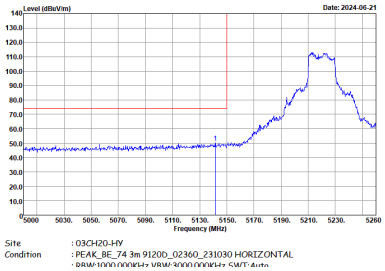
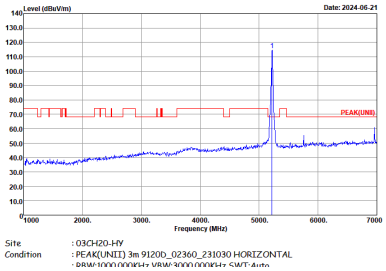
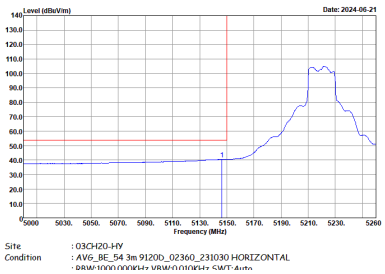
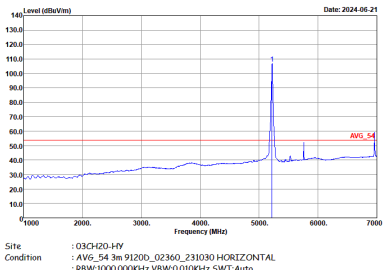
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

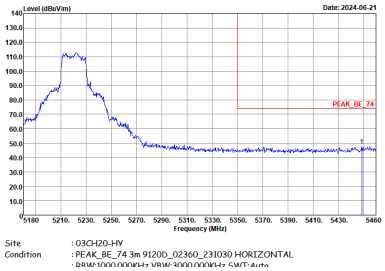
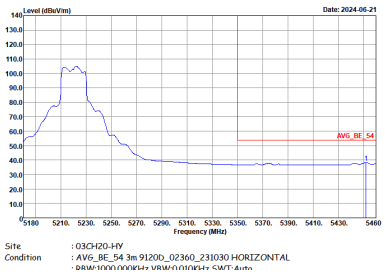
Band 1 5150~5250MHz

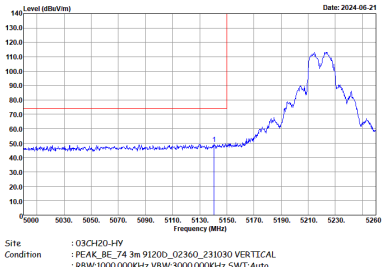
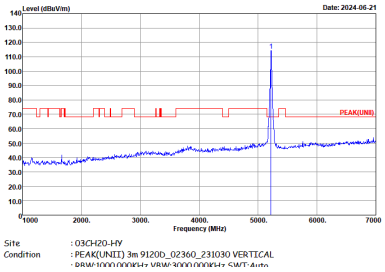
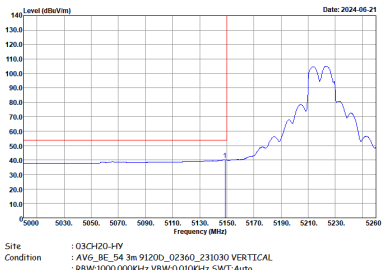
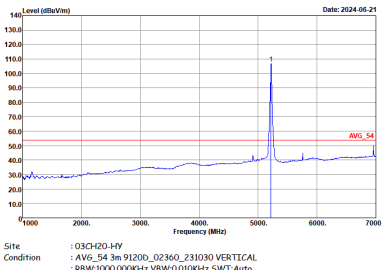
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

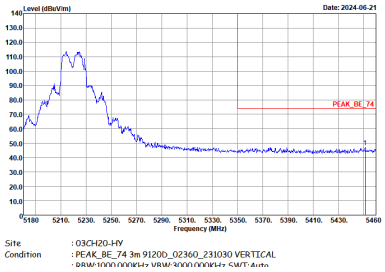
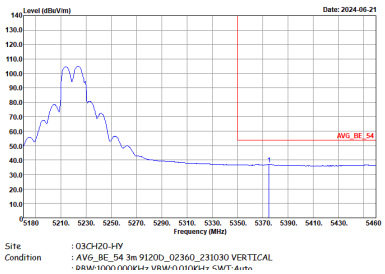
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

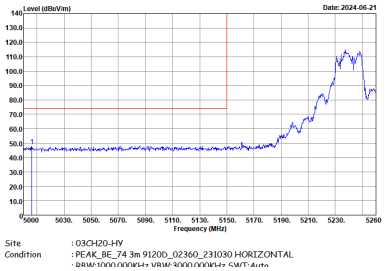
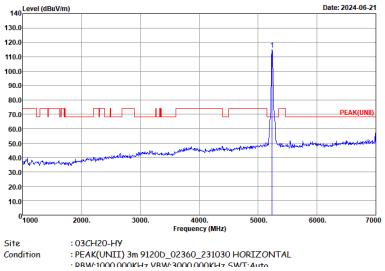
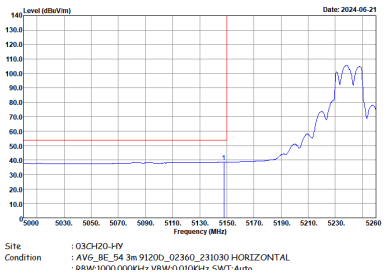
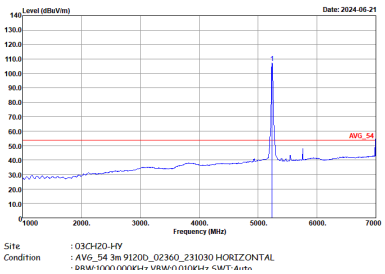
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

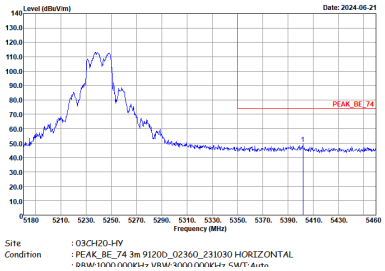
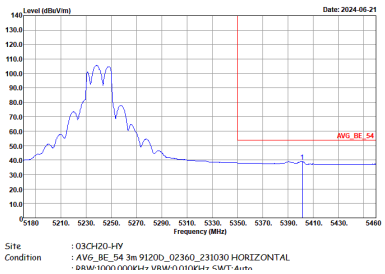
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

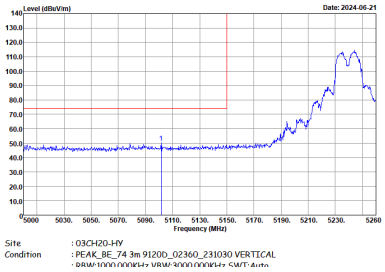
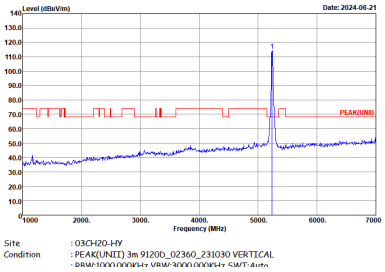
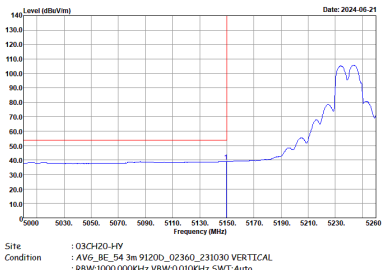
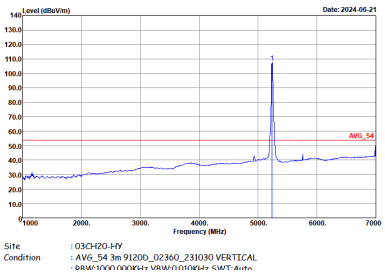
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

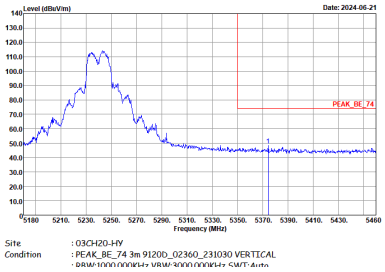
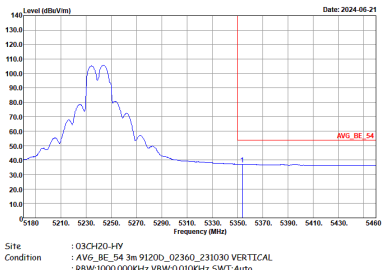
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

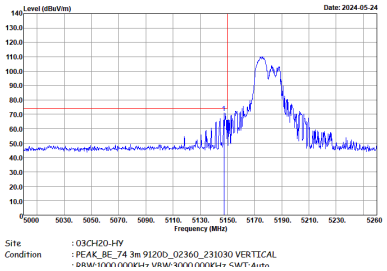
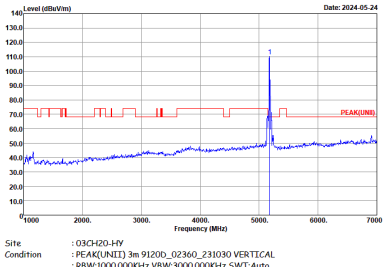
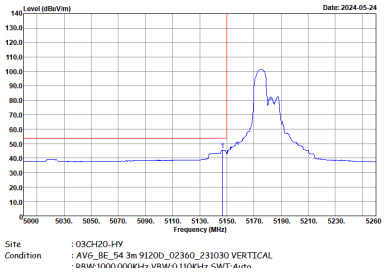
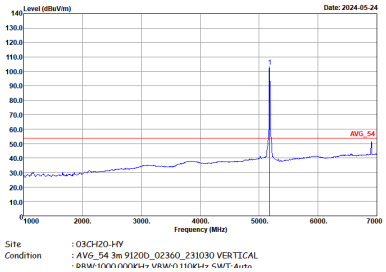
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

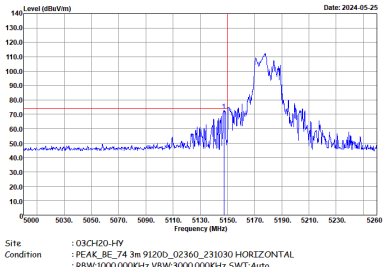
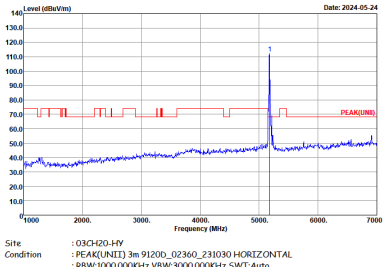
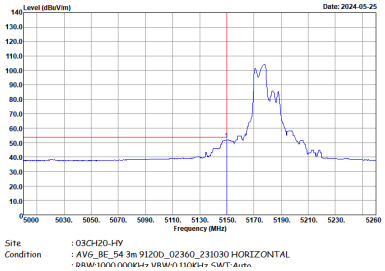
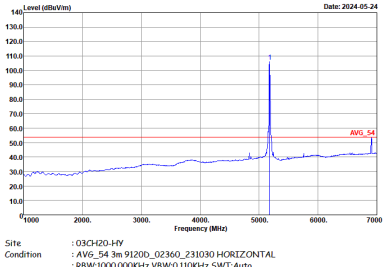
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz

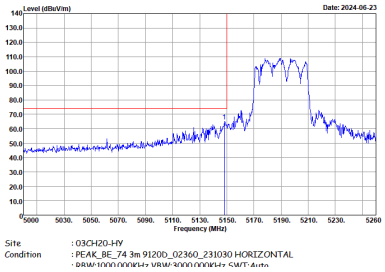
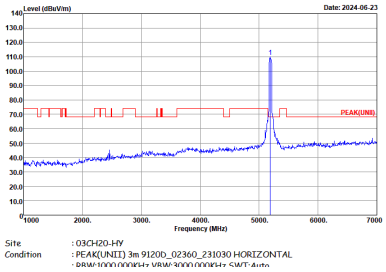
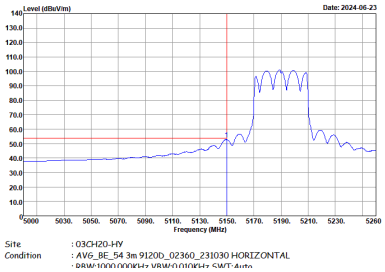
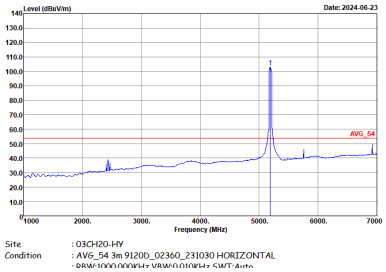
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

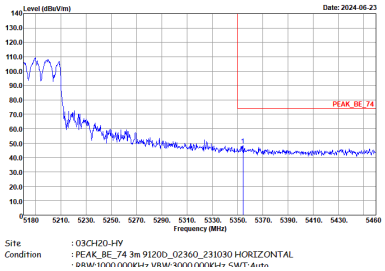
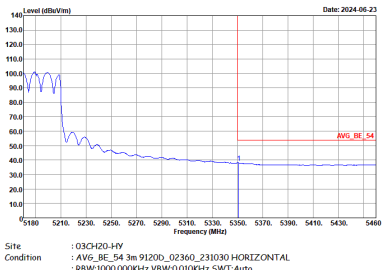
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

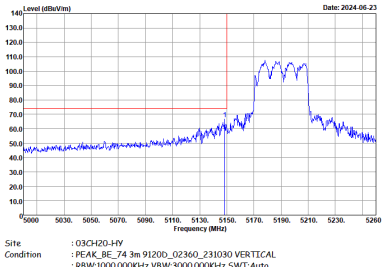
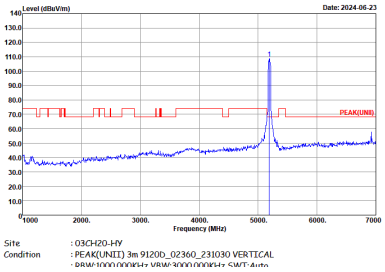
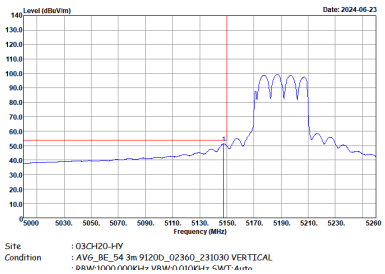
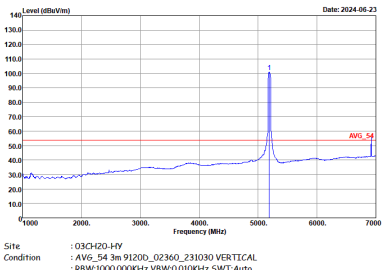
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

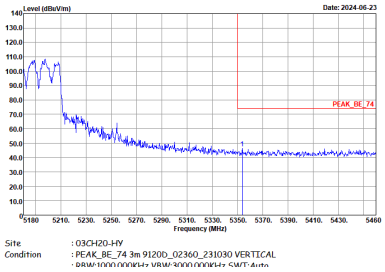
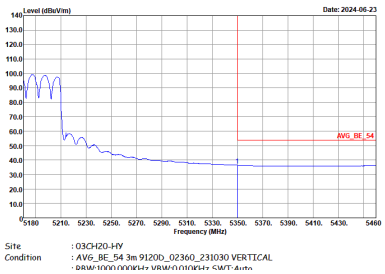
Band 1 5150~5250MHz

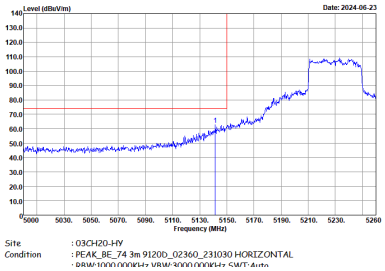
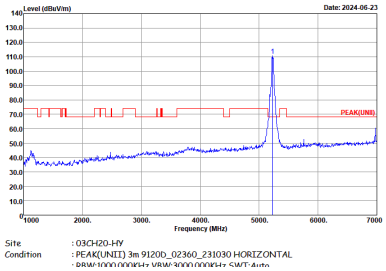
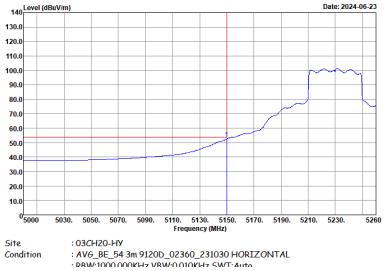
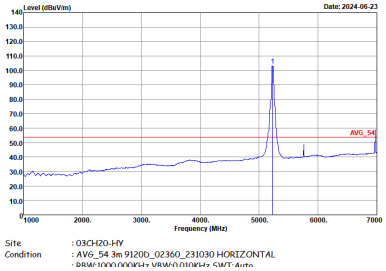
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

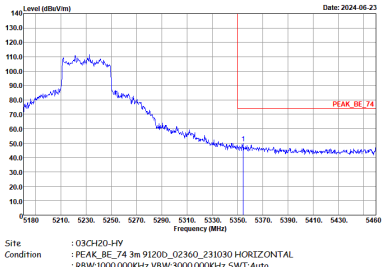
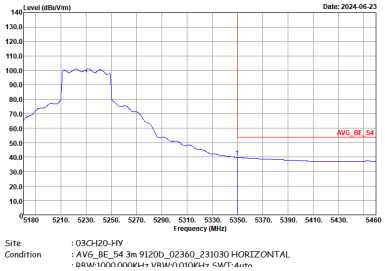
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

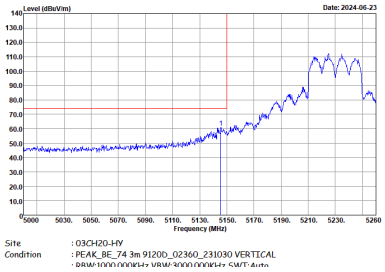
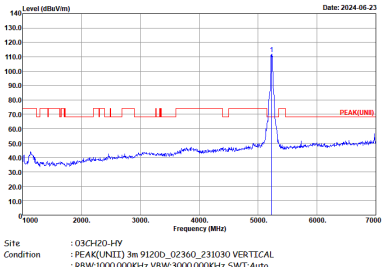
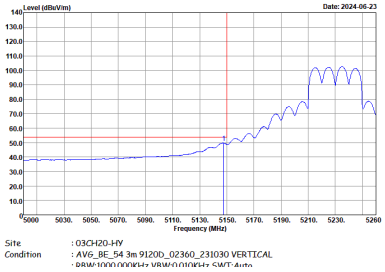
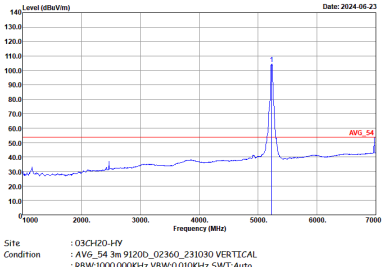
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

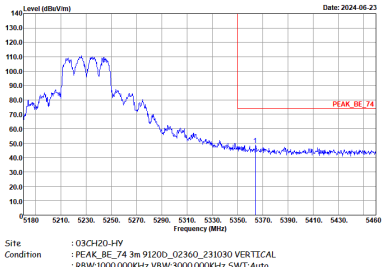
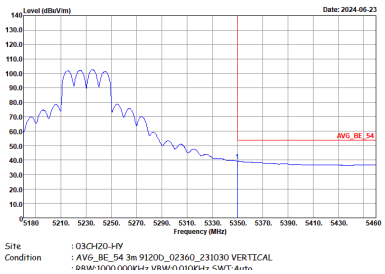
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

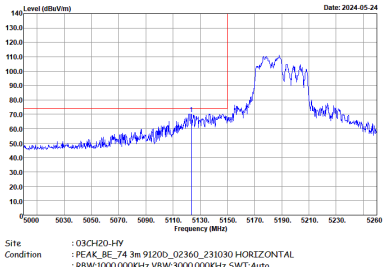
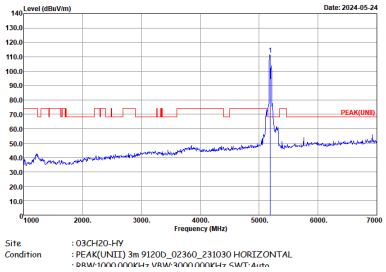
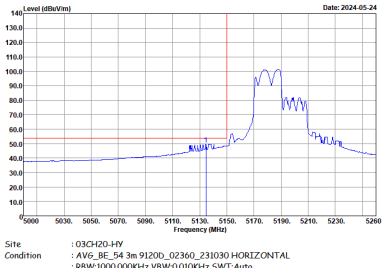
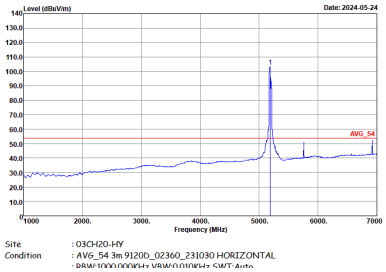
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

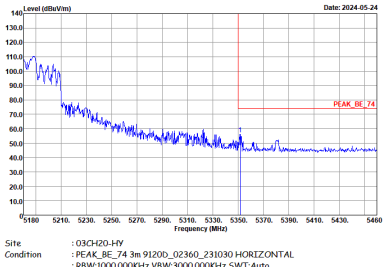
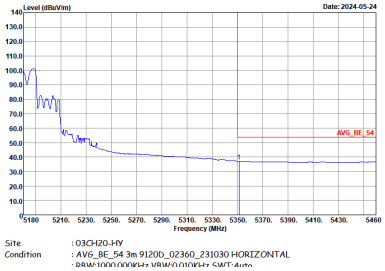
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

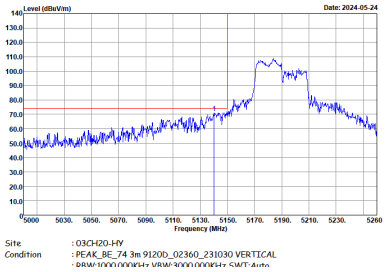
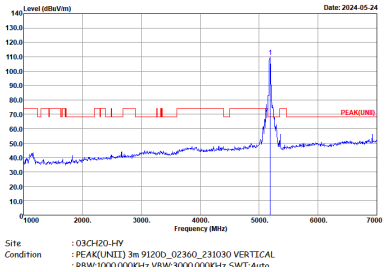
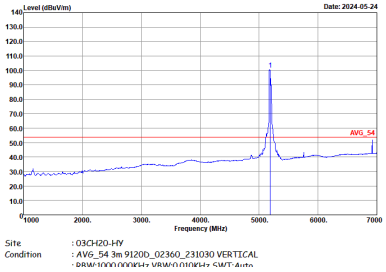
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

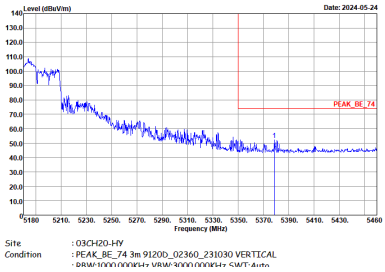
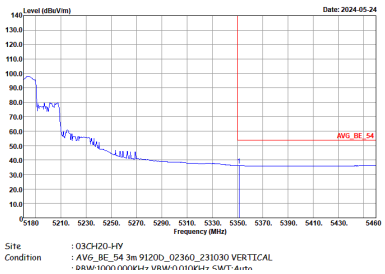
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

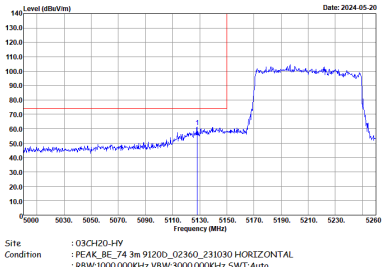
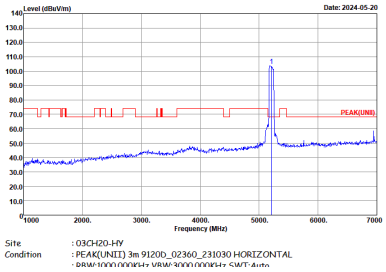
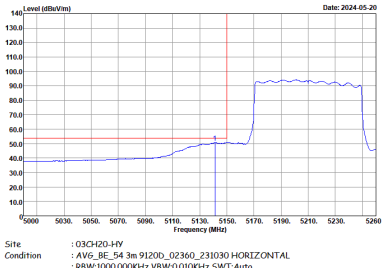
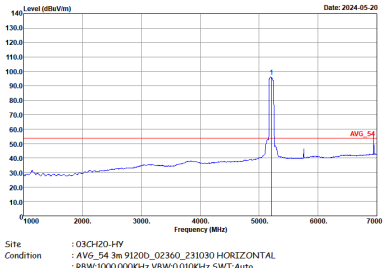
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

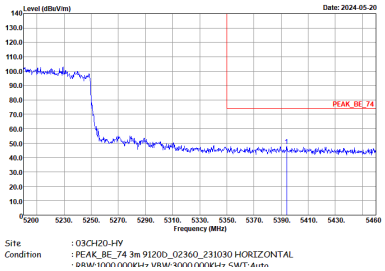
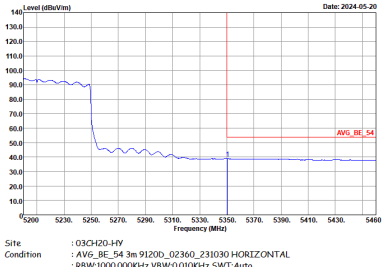
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

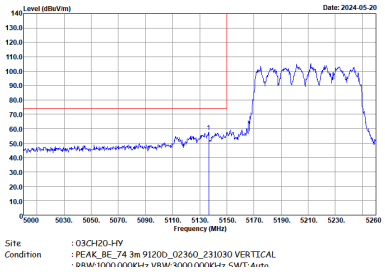
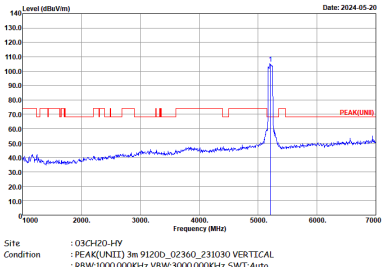
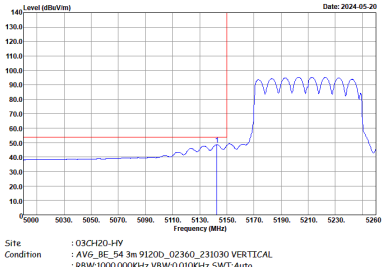
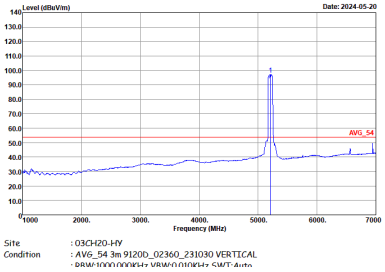
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

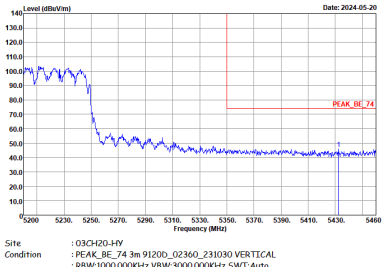
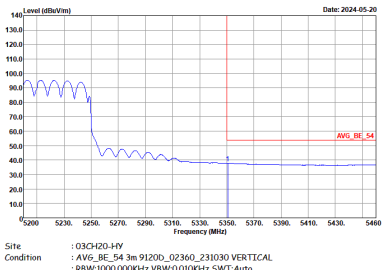
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

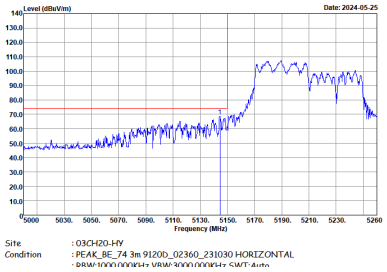
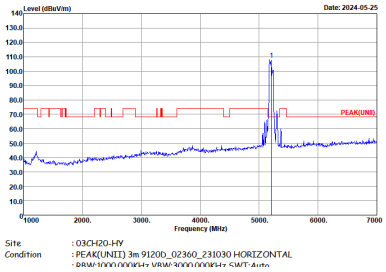
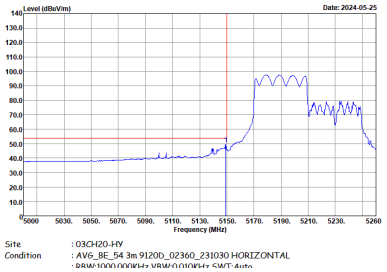
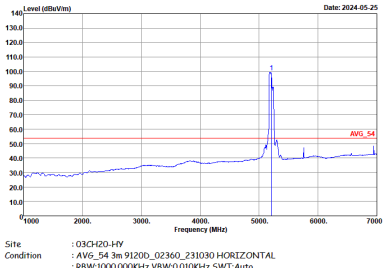
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

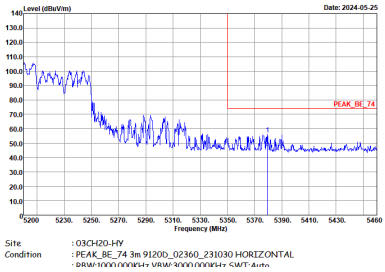
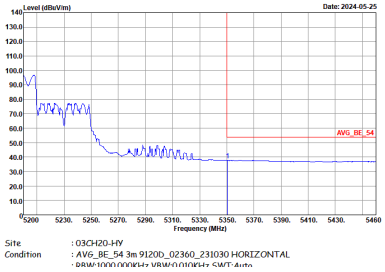
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

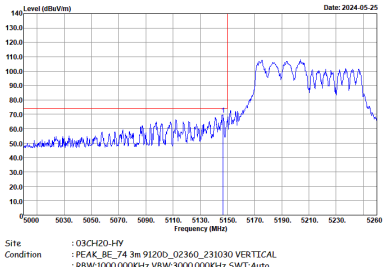
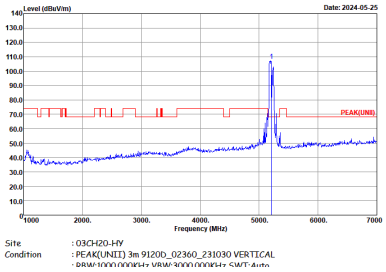
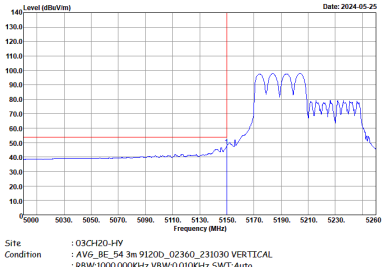
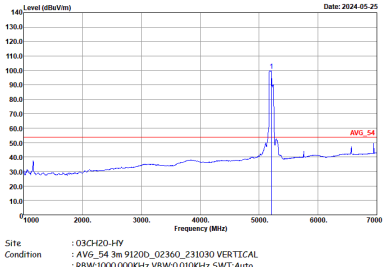
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

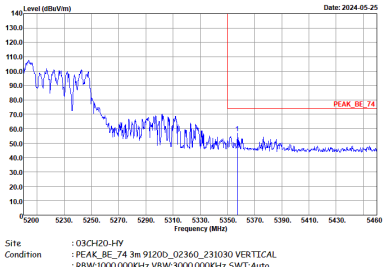
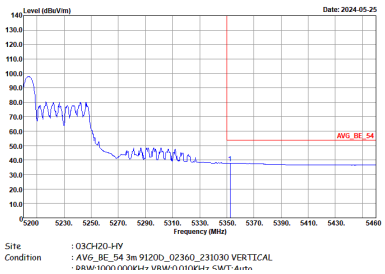
Band 1 5150~5250MHz

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

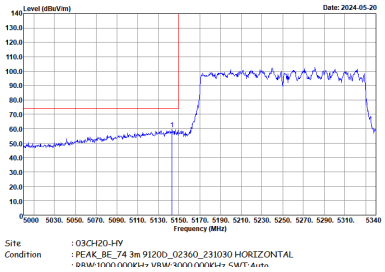
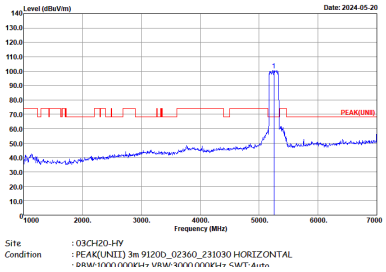
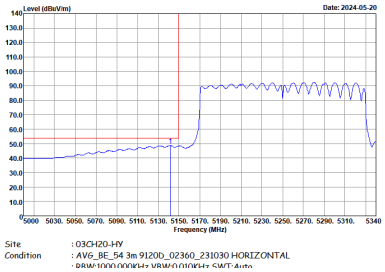
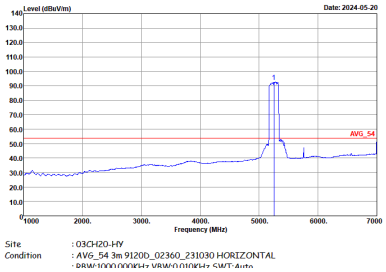
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

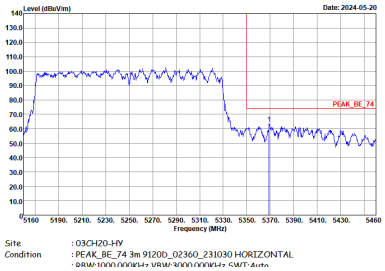
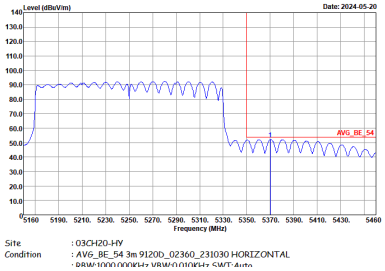
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

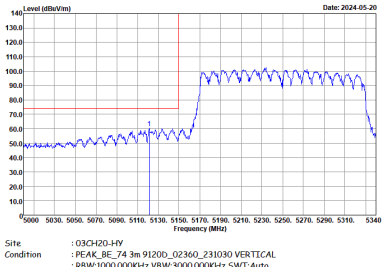
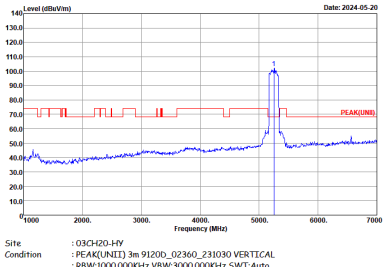
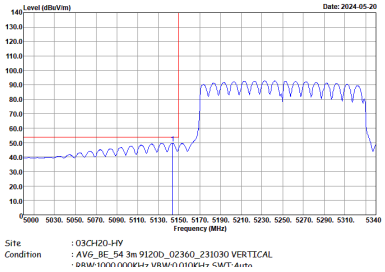
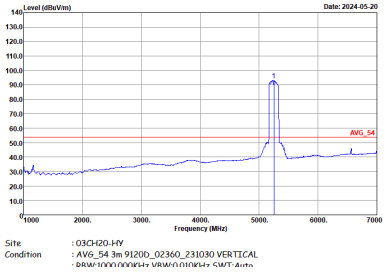
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

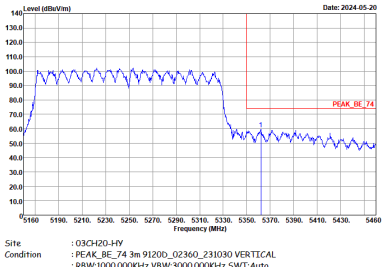
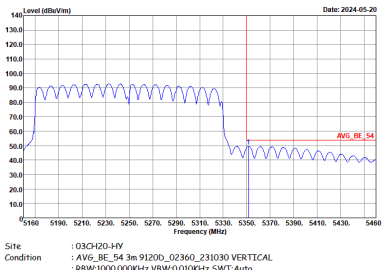
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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+2	Horizontal	Fundamental
Peak		
Avg.		

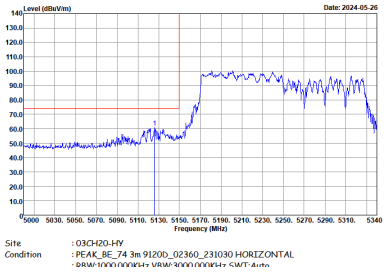
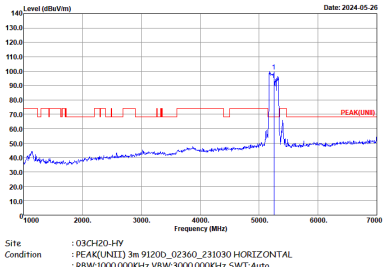
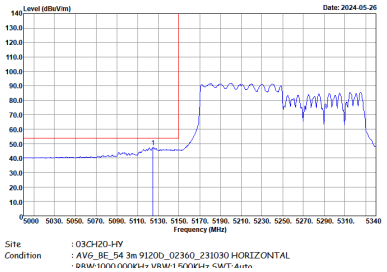
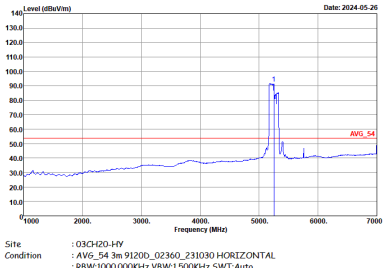
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

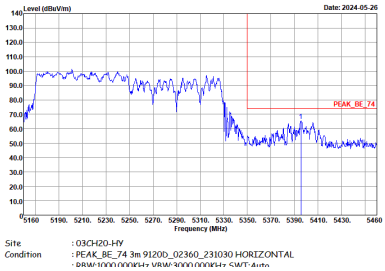
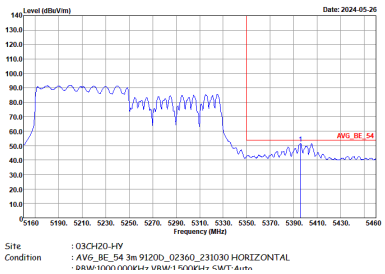
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

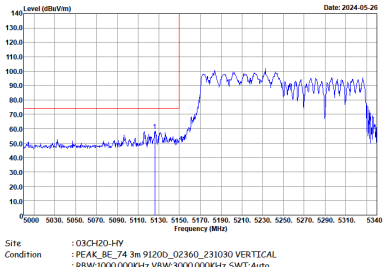
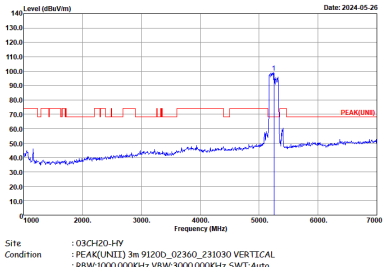
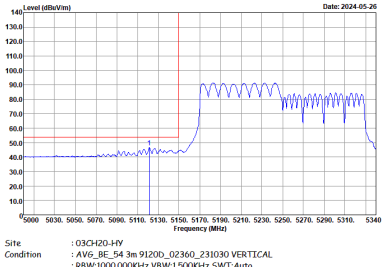
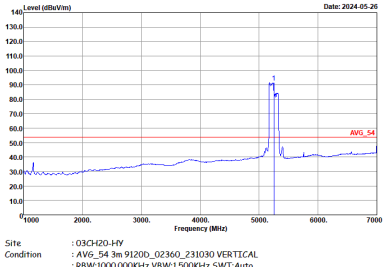
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

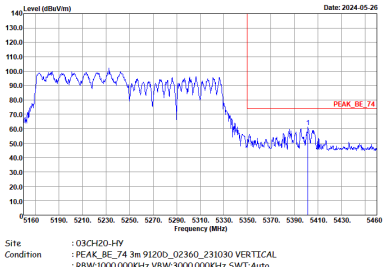
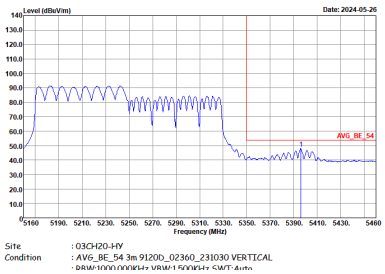
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank