FCC RADIO TEST REPORT

FCC ID	:	**UZ7WCMTB**
Equipment	:	**Touch Computer**
Brand Name	:	**Zebra**
Model Name	:	**WCMTB**
Applicant	:	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	:	**Zebra Technologies Corporation 1 Zebra Plaza, Holtsville, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 08, 2023 and testing was performed from Feb. 10, 2023 to Apr. 01, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issue Date
FR311909E	01	Initial issue of report	Mar. 31, 2023
FR311909E	02	1. Add Sample 2 information and data 2. Revise Product Specification of Equipment Under Test 3. This report is an updated version, replacing the report issued on Mar. 31, 2023.	Apr. 03, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.12 dB under the limit at 5469.850 MHz
3.5	15.207	AC Conducted Emission	Pass	18.42 dB under the limit at 15.646 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. 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.
2. Please refer to the section ” Uncertainty of Evaluation ” for 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: Keven Cheng

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Information	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	WCMTB
Sample 1	Scanner(SE4710)
Sample 2	Scanner(SE5500)
FCC ID	UZ7WCMTB
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS 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	DV
SW Version	13-09-16.00-TG-U00-STD-ATH-04
FW Version	FUSION_QA_4_1.0.0.017_T
MFD	16MAR23
EUT Stage	Identical Prototype

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

Specification of Accessories				
Battery 1 **Standard Battery (3800mAh)**	**Brand Name**	Zebra	**Model Number**	BT-000473

Support Unit used in test configuration and system				
Battery 2 **Standard BLE Beacon Battery (3800mAh)**	**Brand Name**	Zebra	**Part Number**	BT-000473B
Battery 3 **Extended Battery (5200mAh)**	**Brand Name**	Zebra	**Part Number**	BT-000473E
Adapter **USB Wall Charger**	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Earphone 1 **3.5mm PTT Headset**	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTT1-01
Earphone 2 **USB-C Audio Headset**	**Brand Name**	Zebra	**Part Number**	HDST-USBC-PTT1-01
USB Cable **(Type C to Type A)**	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
Type C-Audio Cable **(Type C to 3.5mm)**	**Brand Name**	Zebra	**Part Number**	ADP-USBC-35MM1-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-TC2L-SNP1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 7+8>** 802.11a: 22.42 dBm / 0.1746 W 802.11n HT20: 22.90 dBm / 0.1950 W 802.11n HT40: 22.46 dBm / 0.1762 W 802.11ac VHT20: 22.85 dBm / 0.1928 W 802.11ac VHT40: 22.41 dBm / 0.1742 W 802.11ac VHT80: 19.98 dBm / 0.0995 W 802.11ac VHT160: 18.39 dBm / 0.0690 W 802.11ax HE20: 22.95 dBm / 0.1972 W 802.11ax HE40: 22.51 dBm / 0.1782 W 802.11ax HE80: 20.08 dBm / 0.1019 W 802.11ax HE160: 18.49 dBm / 0.0706 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 7+8>** 802.11a: 22.38 dBm / 0.1730 W 802.11n HT20: 22.63 dBm / 0.1832 W 802.11n HT40: 22.88 dBm / 0.1941 W 802.11ac VHT20: 22.58 dBm / 0.1811 W 802.11ac VHT40: 22.83 dBm / 0.1919 W 802.11ac VHT80: 19.67 dBm / 0.0927 W 802.11ax HE20: 22.68 dBm / 0.1854 W 802.11ax HE40: 22.93 dBm / 0.1963 W 802.11ax HE80: 19.82 dBm / 0.0959 W 802.11ax HE160: 15.04 dBm / 0.0319 W **<5500 MHz ~ 5720 MHz** **MIMO <Ant. 7+8>** 802.11a: 21.93 dBm / 0.1560 W 802.11n HT20: 21.67 dBm / 0.1469 W 802.11n HT40: 22.03 dBm / 0.1596 W 802.11ac VHT20: 21.62 dBm / 0.1452 W 802.11ac VHT40: 21.98 dBm / 0.1578 W 802.11ac VHT80: 21.48 dBm / 0.1406 W 802.11ac VHT160: 18.81 dBm / 0.0760 W 802.11ax HE20: 21.72 dBm / 0.1486 W 802.11ax HE40: 22.08 dBm / 0.1614 W 802.11ax HE80: 21.58 dBm / 0.1439 W 802.11ax HE160: 18.91 dBm / 0.0778 W

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>99% Occupied Bandwidth</td><td>MIMO <Ant. 7>
802.11a: 16.73 MHz
802.11ax HE20: 19.58 MHz
802.11ax HE40: 38.36 MHz
802.11ax HE80: 77.32 MHz
802.11ax HE160: 156.56MHz
MIMO <Ant. 8>
802.11a: 16.98 MHz
802.11ax HE20: 19.53 MHz
802.11ax HE40: 38.56 MHz
802.11ax HE80: 77.20 MHz
802.11ax HE160: 156.32MHz</td></tr>
<tr><td>Antenna Type</td><td>Ant. 7 : IFA Antenna
Ant. 8 : IFA Antenna</td></tr>
<tr><td rowspan="3">Antenna Gain</td><td><5180 MHz ~ 5240 MHz>
Ant. 7 : -0.65 dBi
Ant. 8 : -3.50 dBi</td></tr>
<tr><td><5260 MHz ~ 5320 MHz>
Ant. 7 : -0.84 dBi
Ant. 8 : -3.40 dBi</td></tr>
<tr><td><5500 MHz ~ 5720 MHz>
Ant. 7 : -0.31 dBi
Ant. 8 : -0.20 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM)
802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
802.11ax: OFDMA
(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table>
<tr><th></th><th>Ant. 7</th><th>Ant. 8</th></tr>
<tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11 ax Tx BF</td><td>V</td><td>V</td></tr>
</table></td></tr>
</table>

Remark:

1. MIMO Ant. 7+8 Directional Gain is a calculated result from MIMO Ant. 7 and MIMO Ant. 8. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 7 + Ant. 8 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 8.
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.

1.2.1 Antenna Directional Gain

<For CDD Mode>

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 7 (dBi)	Ant 8 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-0.65	-3.50	-0.65	1.05	0.00	0.00
Band II	-0.84	-3.40	-0.84	0.98	0.00	0.00
Band III	-0.31	-0.20	-0.20	2.76	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT1}= -0.65dBi; G_{ANT2}=-3.50dBi

Directional gain of power measurement = max(-0.65, -3.50) + 0 = -0.65 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-0.65 dBi / 20) + 10^ (-3.50 dBi / 20)] ^ 2 } / 2 }

= 1.05 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 7 (dBi)	Ant 8 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-0.65	-3.50	1.05	1.05	0.00	0.00
Band II	-0.84	-3.40	0.98	0.98	0.00	0.00
Band III	-0.31	-0.20	2.76	2.76	0.00	0.00

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (-0.65 dBi / 20) + 10^ (-3.50 dBi / 20)] ^ 2 } / 2 }

= 1.05 dBi

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH15-HY

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

FCC designation No.: TW3786

1.5 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and 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. 2018.

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 and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax 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 HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

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 + Camera (Rear) + Battery 1 + USB Cable (Type C to Type A) (Charging from Adapter) for Sample 1

<Sample 1 with Battery 1>

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

<Sample 1 with Battery 2>

Ch. #		Band III：5470-5725MHz
		802.11a
L	Low	100
M	Middle	-
H	High	-
Straddle		-

<Sample 1 with Battery 3>

Ch. #		Band III：5470-5725MHz
		802.11a
L	Low	100
M	Middle	-
H	High	-
Straddle		-

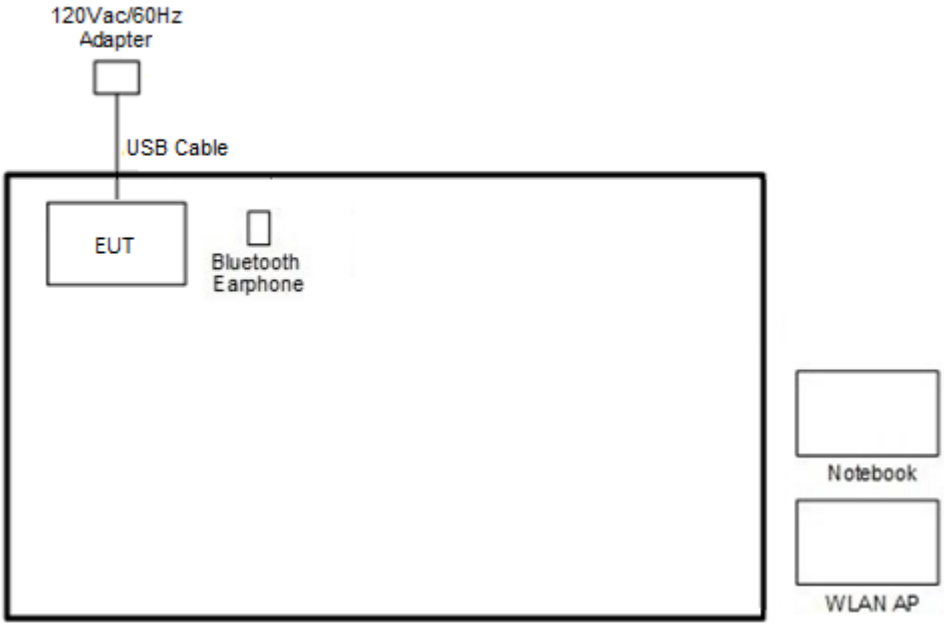
<Sample 2 with Battery 1>

Ch. #		Band III：5470-5725MHz
		802.11a
L	Low	100
M	Middle	-
H	High	-
Straddle		-

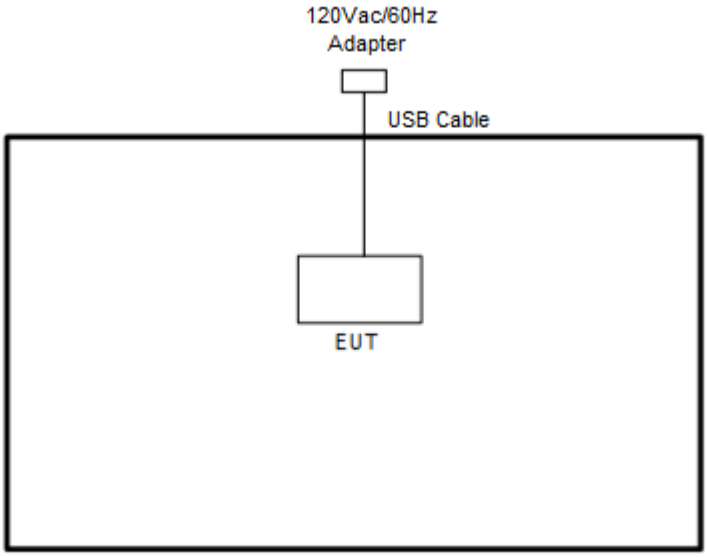
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

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.	WLAN AP	ASUS	RT-AC52	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Kinyo	BTE-3622	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Version 4.0.00206.0” 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.

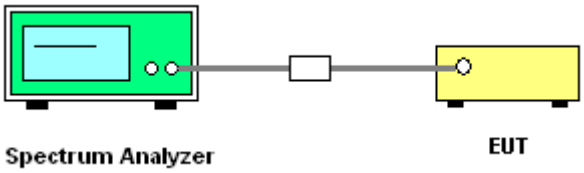
3.1.2 Measuring Instruments

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

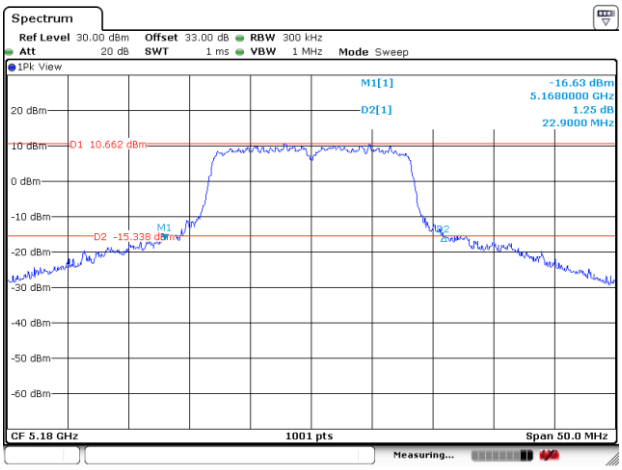
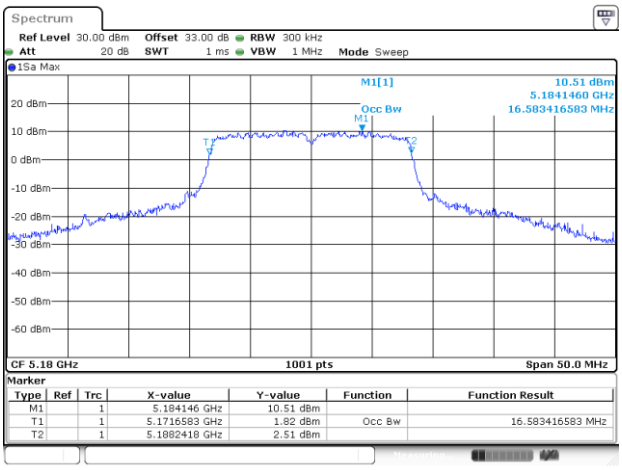


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

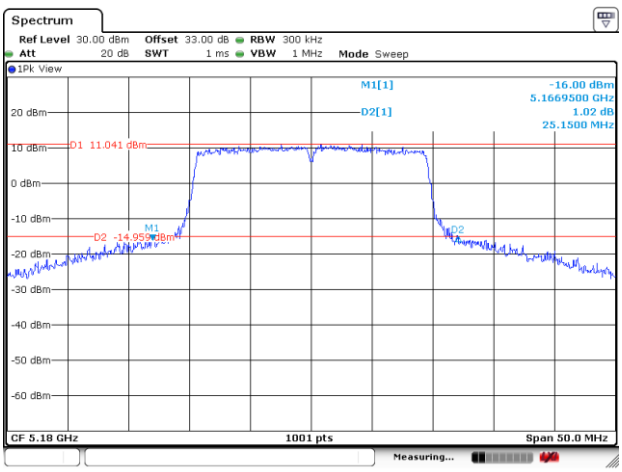
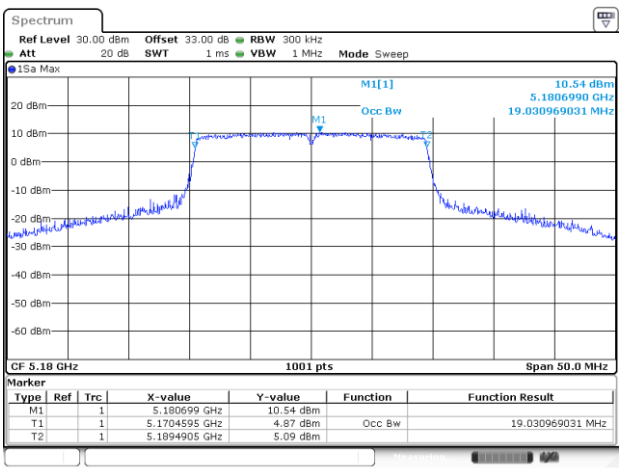
MIMO <Ant. 7+8>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

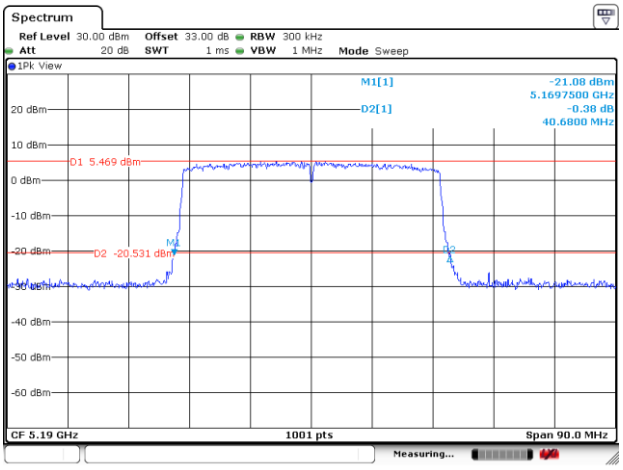
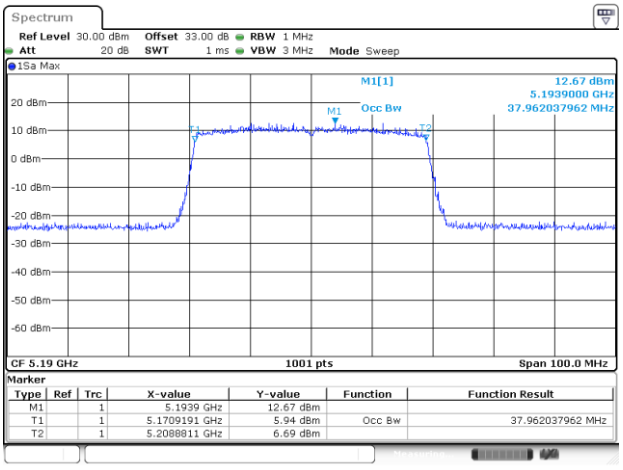
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

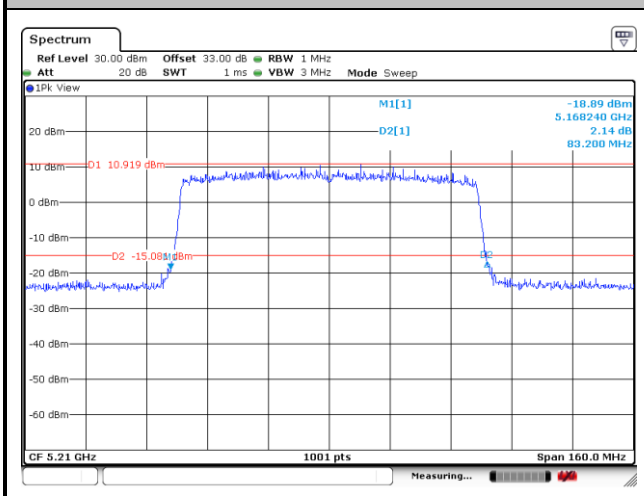
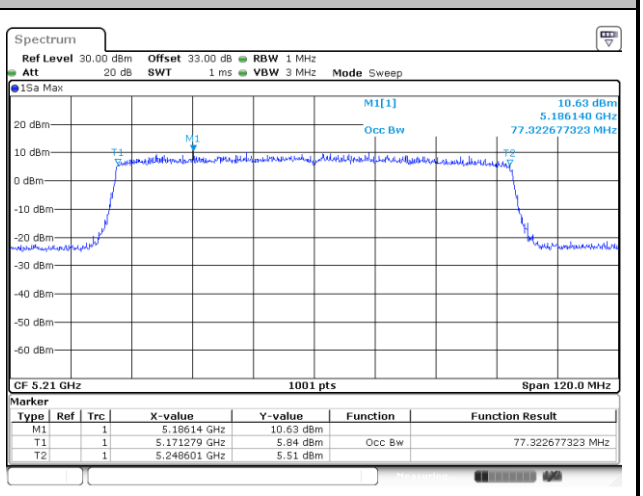
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

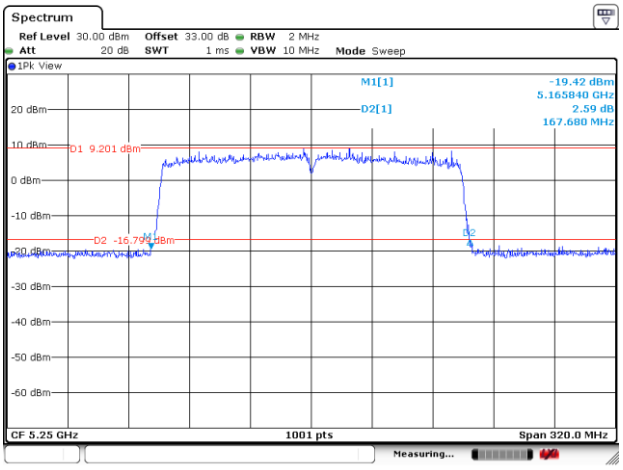
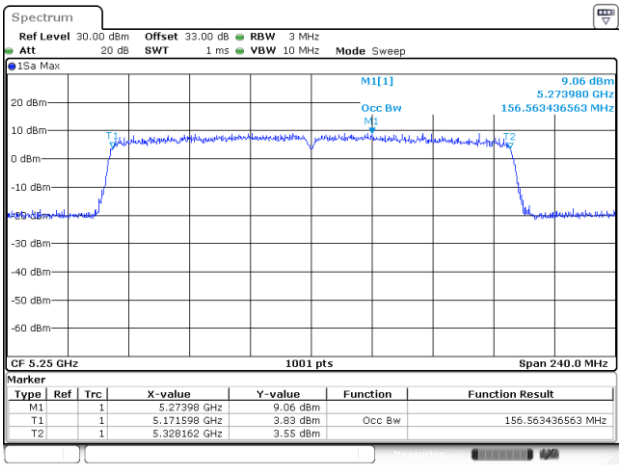
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ax HE160>

26dB Bandwidth	99% Occupied Bandwidth
	

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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

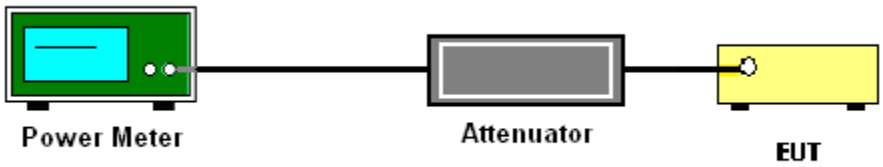
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.
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-1 #

(trace averaging with the EUT transmissiing at full power throughout each sweep).

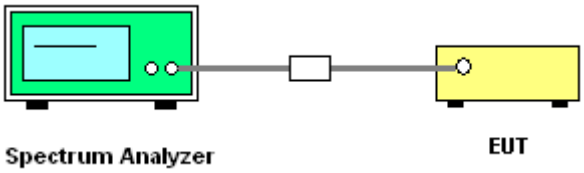
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.

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

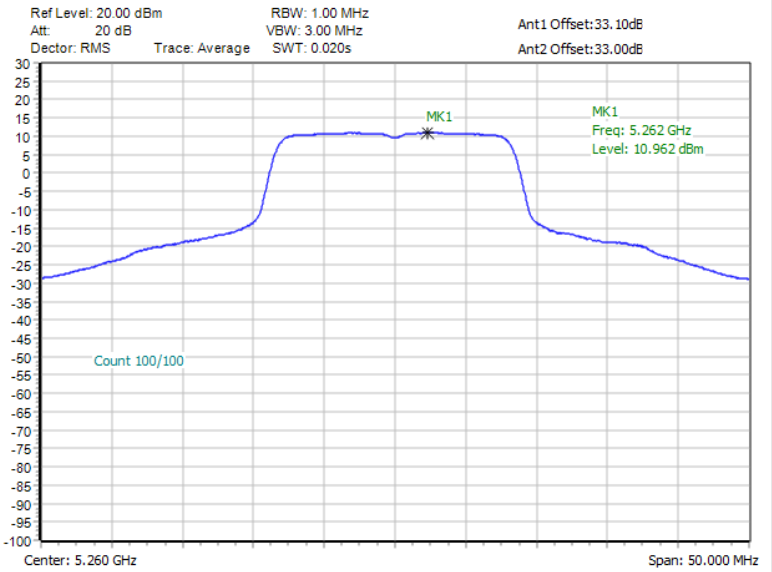


3.3.5 Test Result of Power Spectral Density

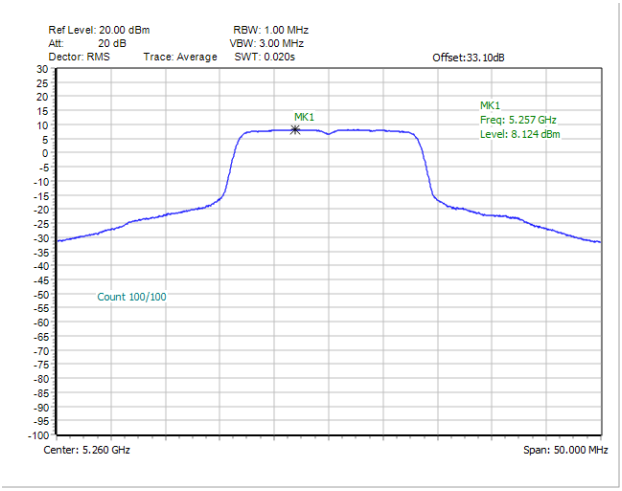
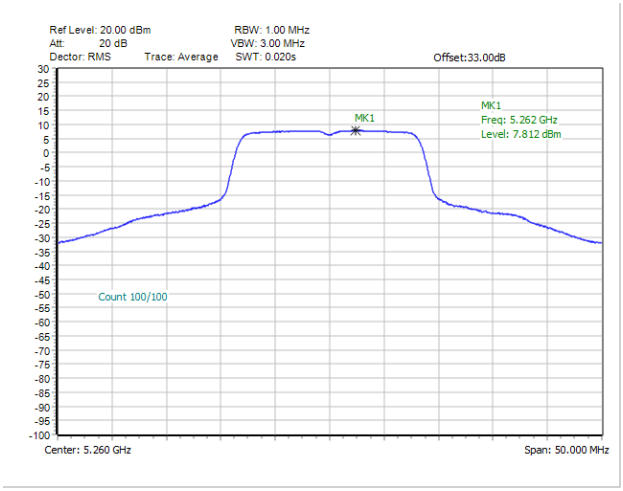
Please refer to Appendix A.

<802.11a>

Maximum Power Density Plot (dBm/MHz)

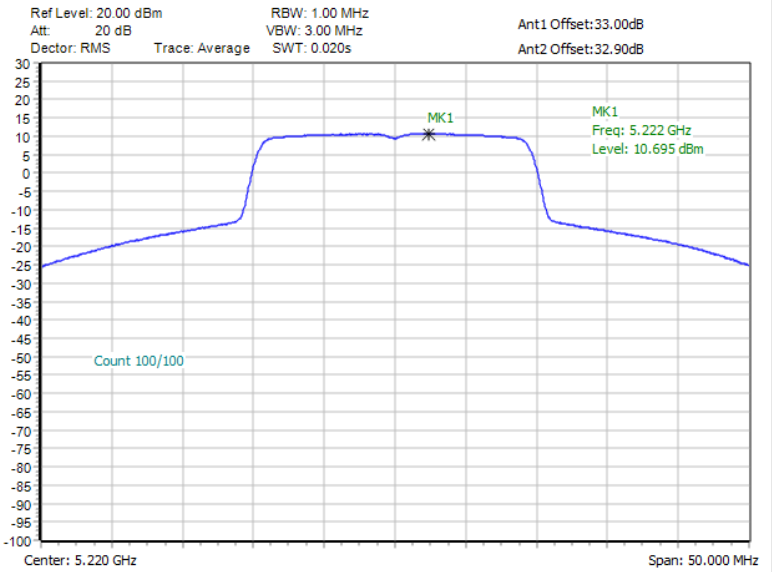


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

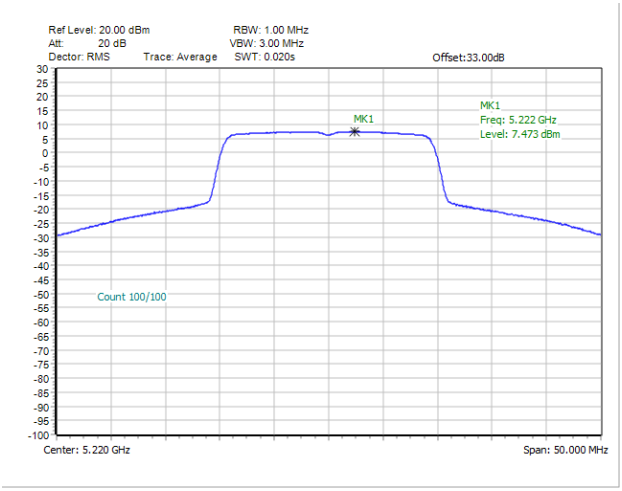
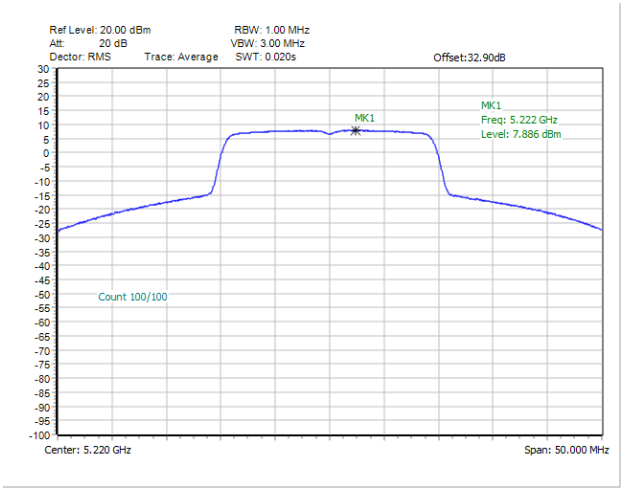
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE20 Full RU>

Maximum Power Density Plot (dBm/MHz)

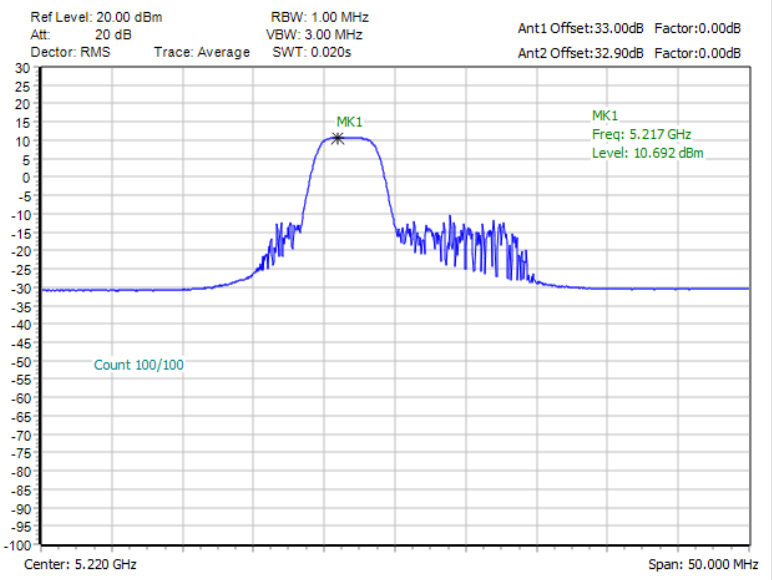


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

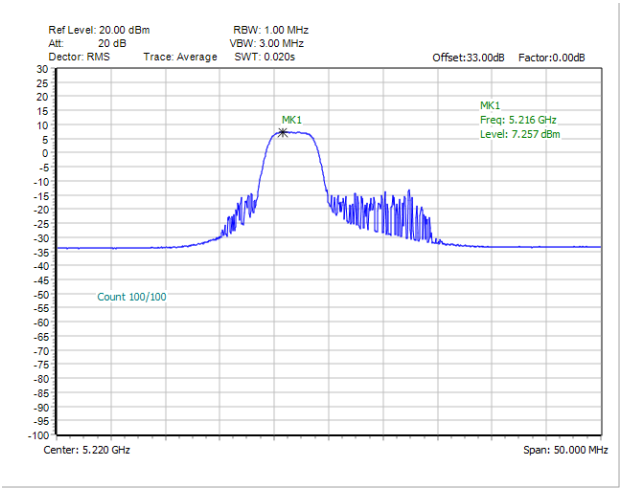
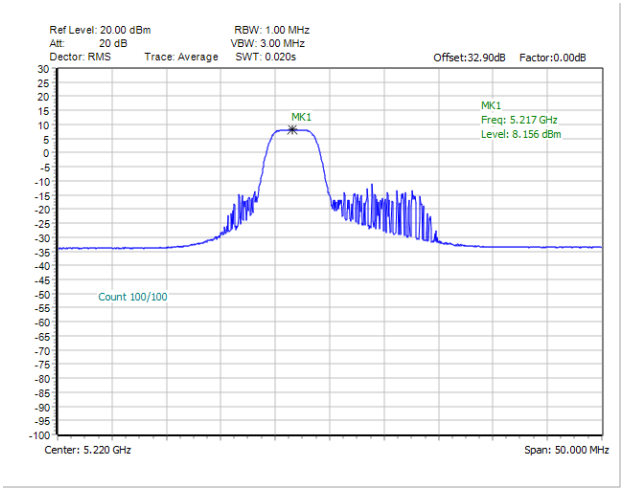
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE20 52RU>

Maximum Power Density Plot (dBm/MHz)

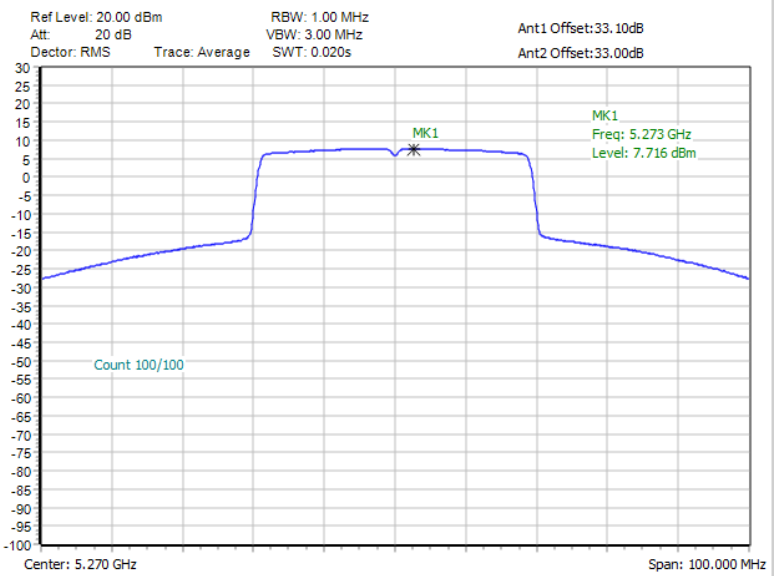


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

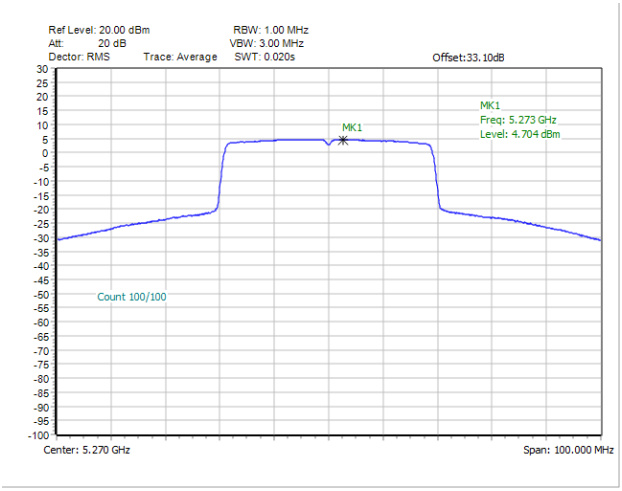
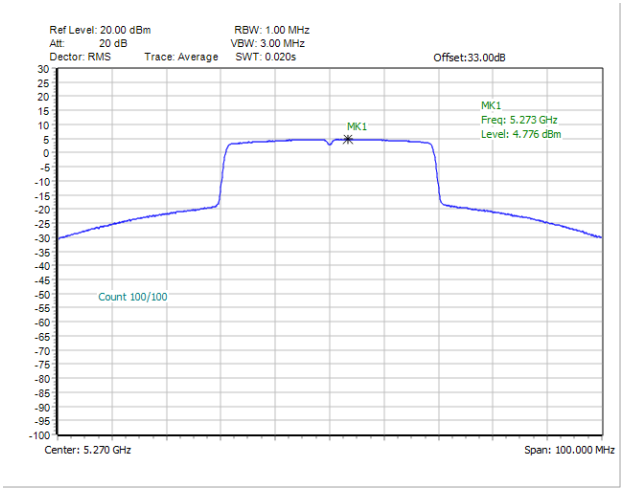
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE40 Full RU>

Maximum Power Density Plot (dBm/MHz)

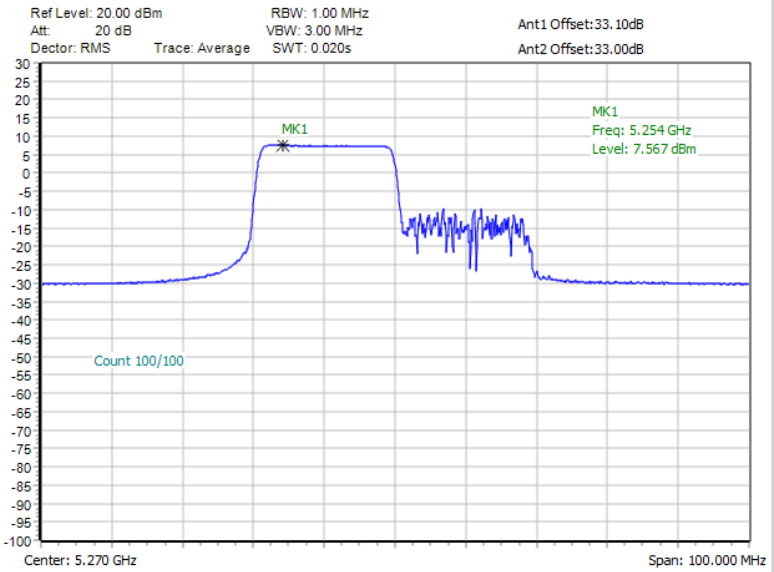


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

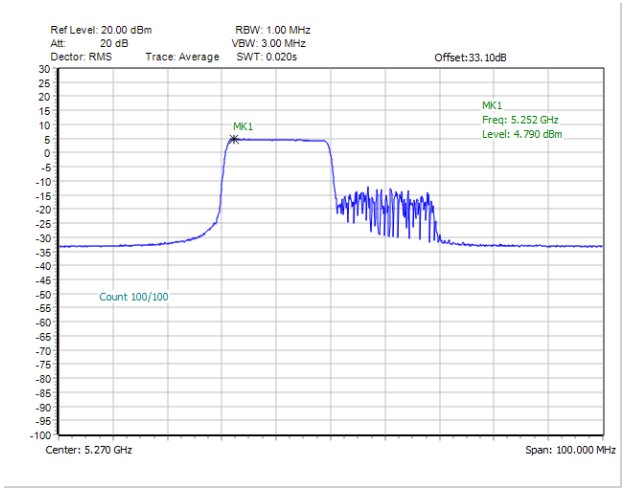
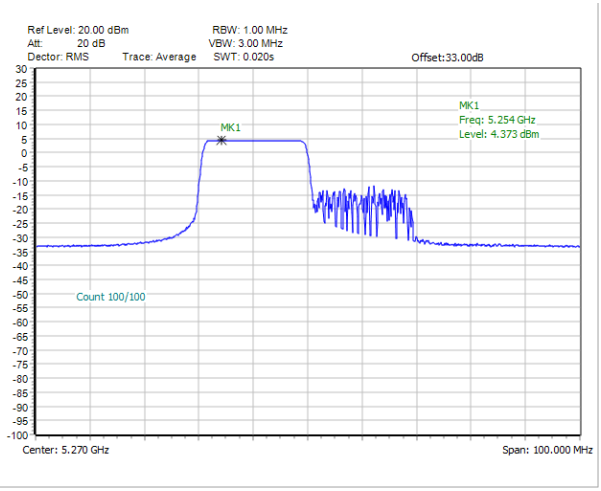
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE40 242RU>

Maximum Power Density Plot (dBm/MHz)

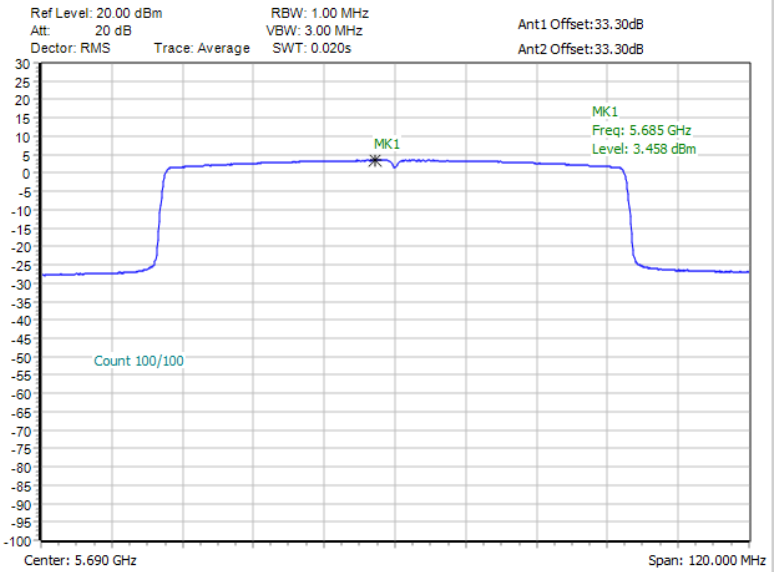


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

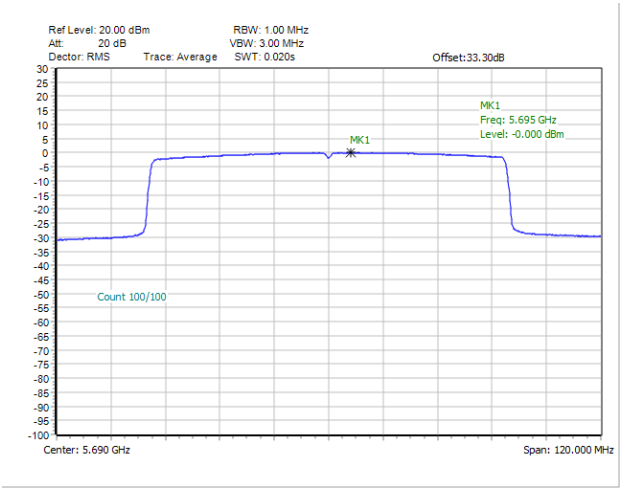
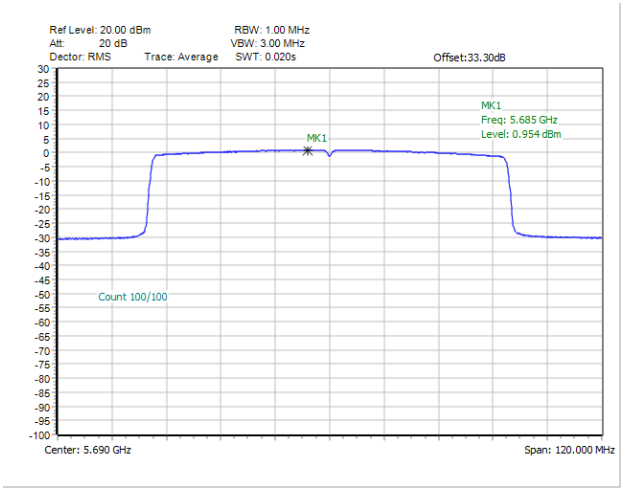
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE80 Full RU>

Maximum Power Density Plot (dBm/MHz)

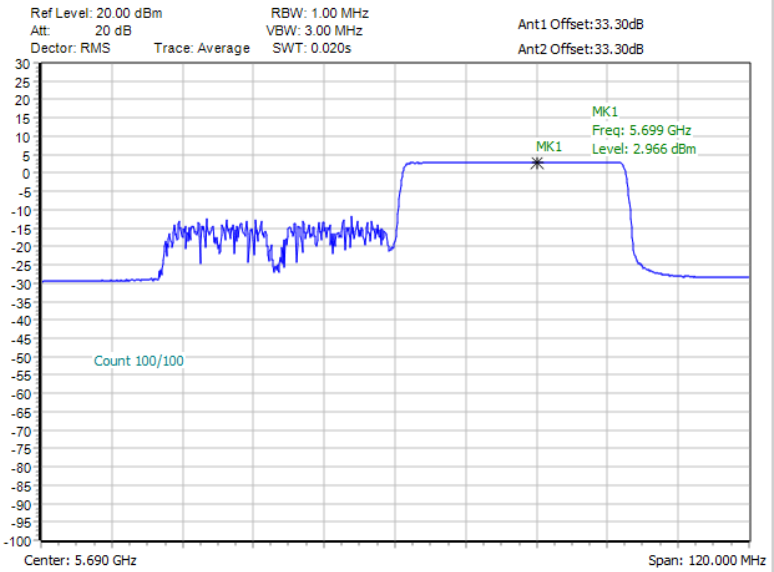


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

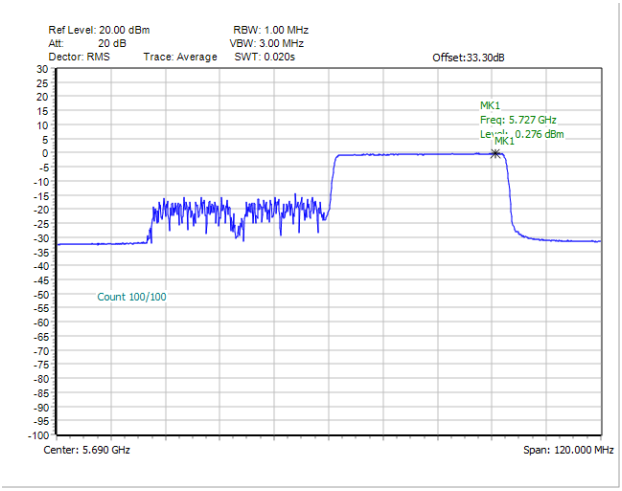
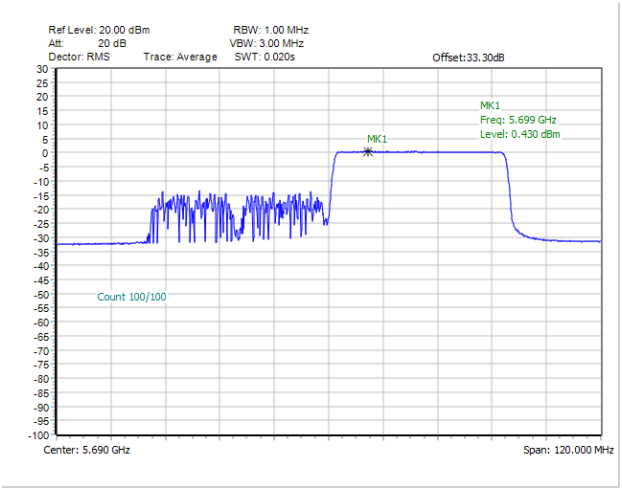
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE80 484RU>

Maximum Power Density Plot (dBm/MHz)

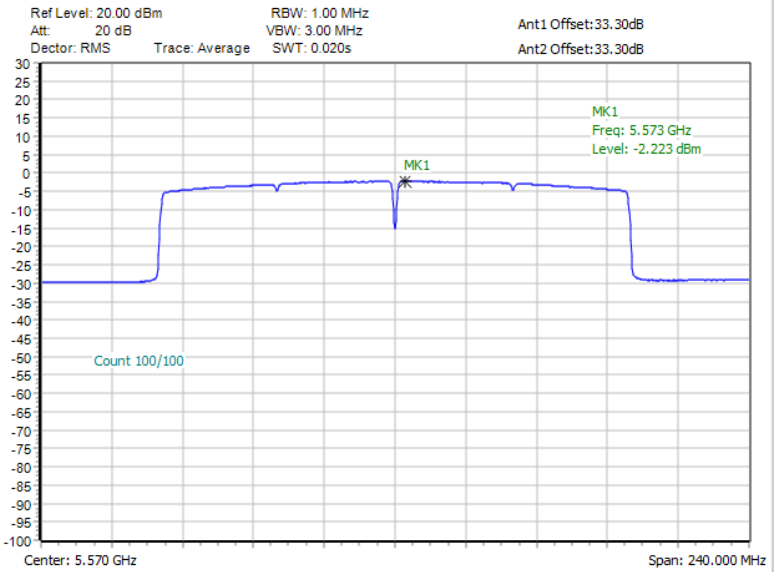


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

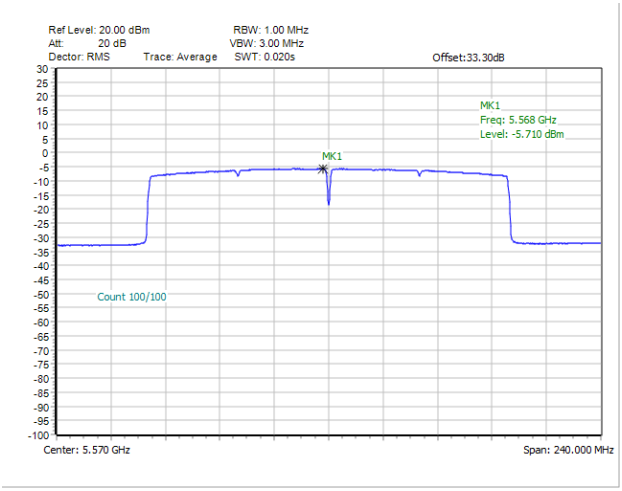
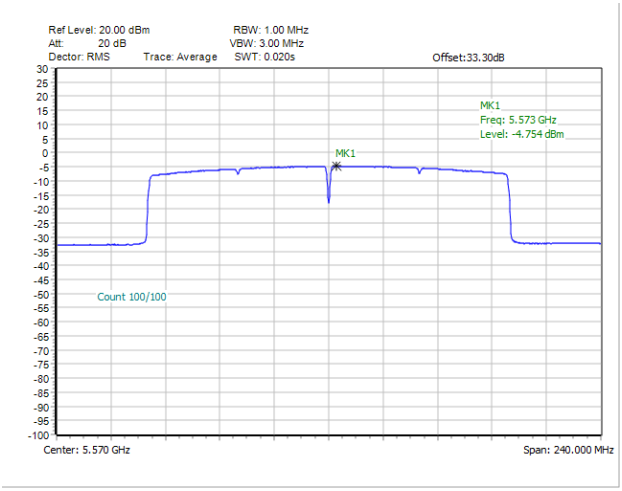
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE160 Full RU>

Maximum Power Density Plot (dBm/MHz)

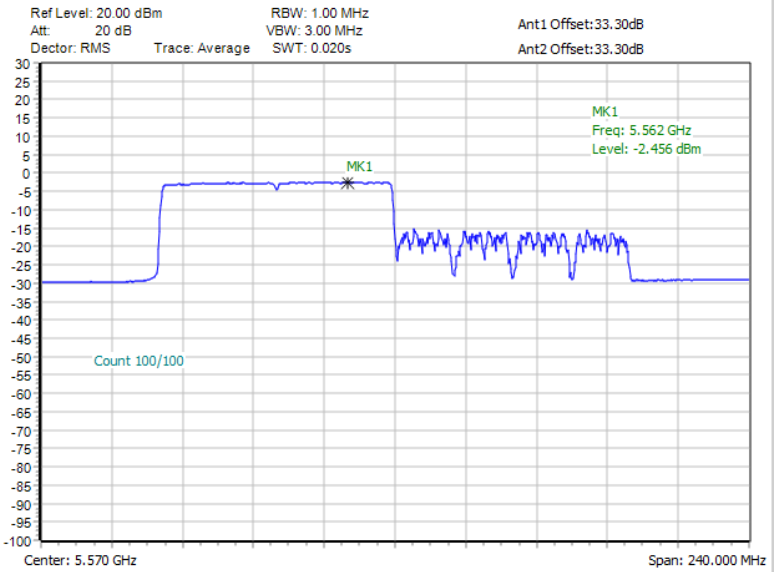


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

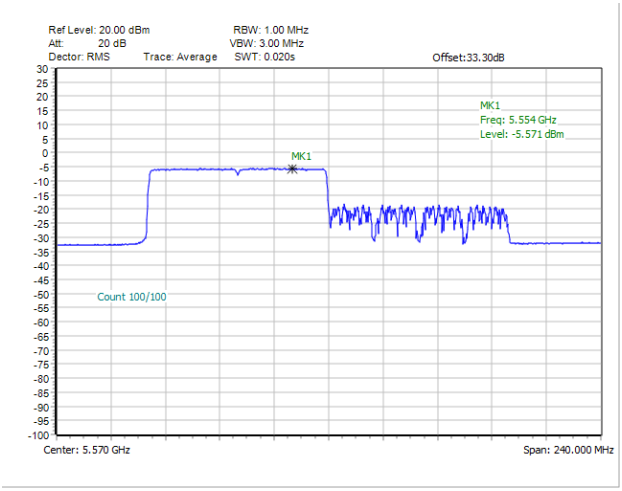
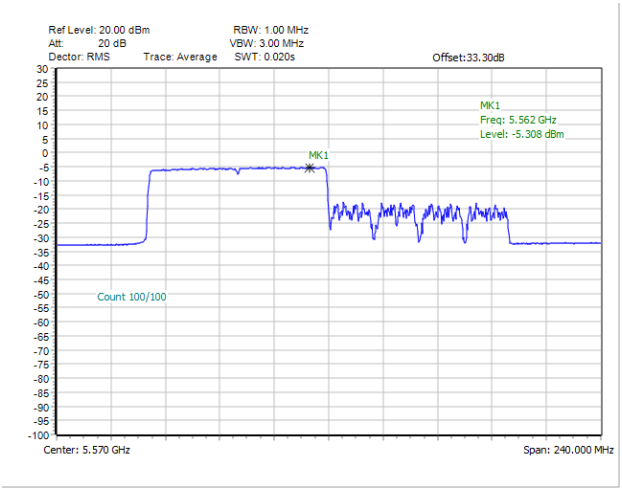
Maximum Power Density Plot Trace 1 (Ant 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

<802.11ax HE160 996RU>

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 7)	Maximum Power Density Plot Trace 2 (Ant 8)
	

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

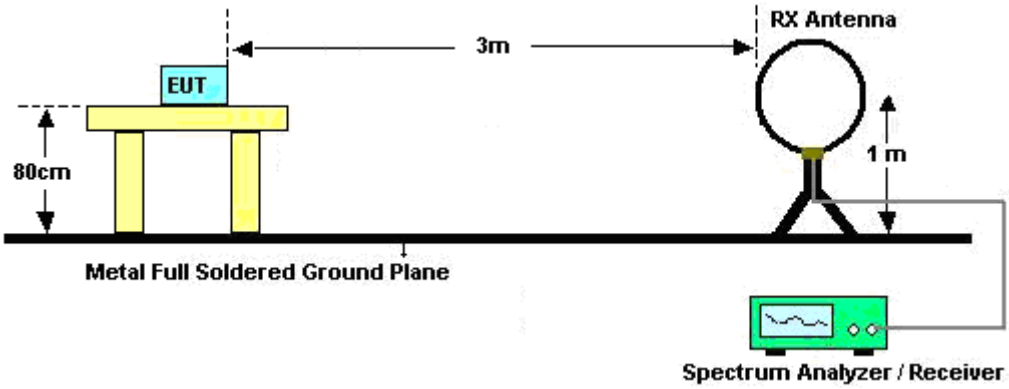
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

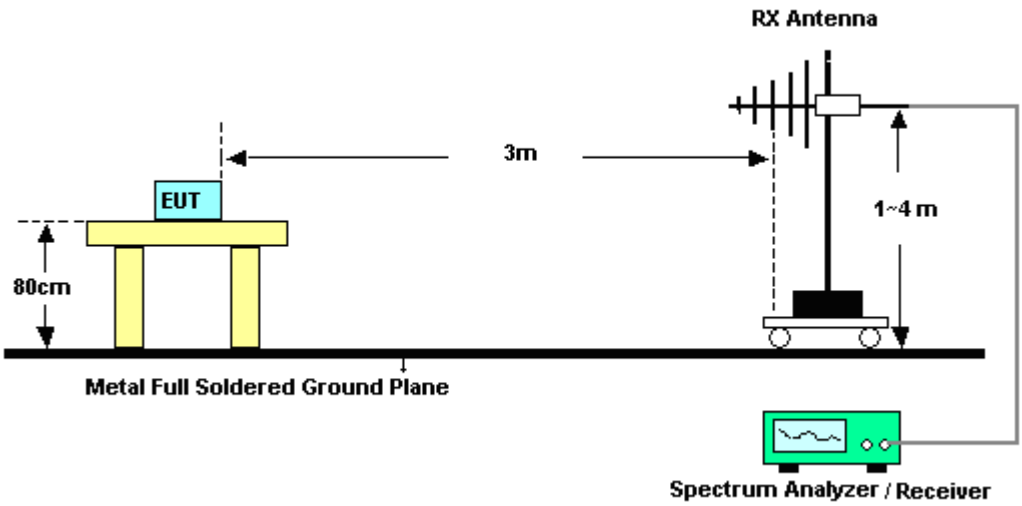
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

3.4.4 Test Setup

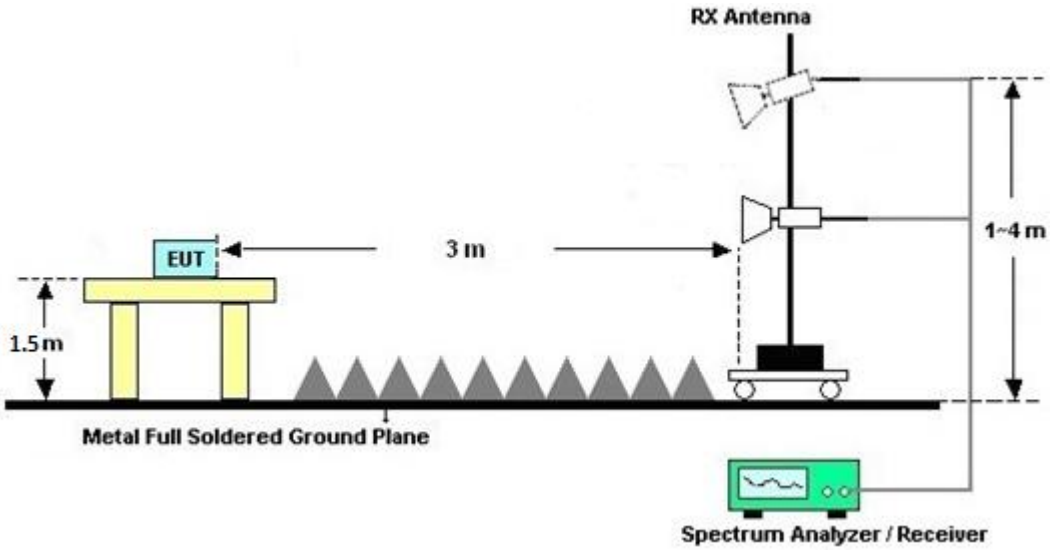
For radiated emissions below 30MHz



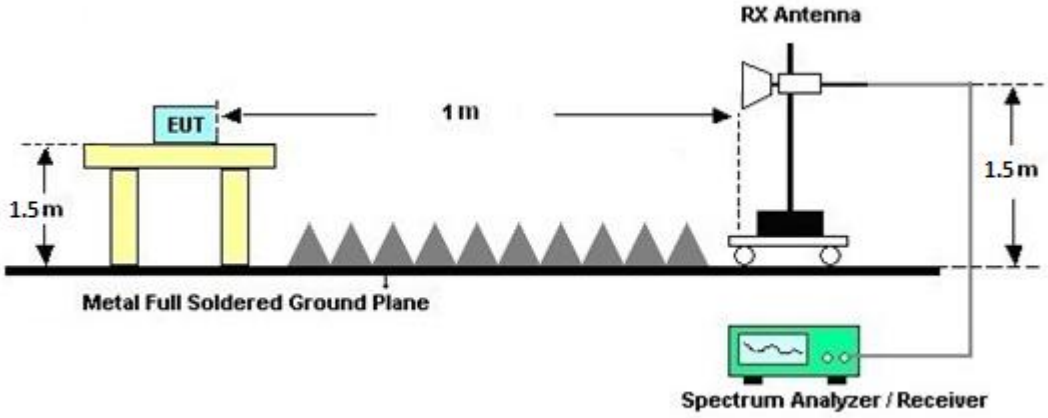
For radiated emissions from 30MHz to 1GHz



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.

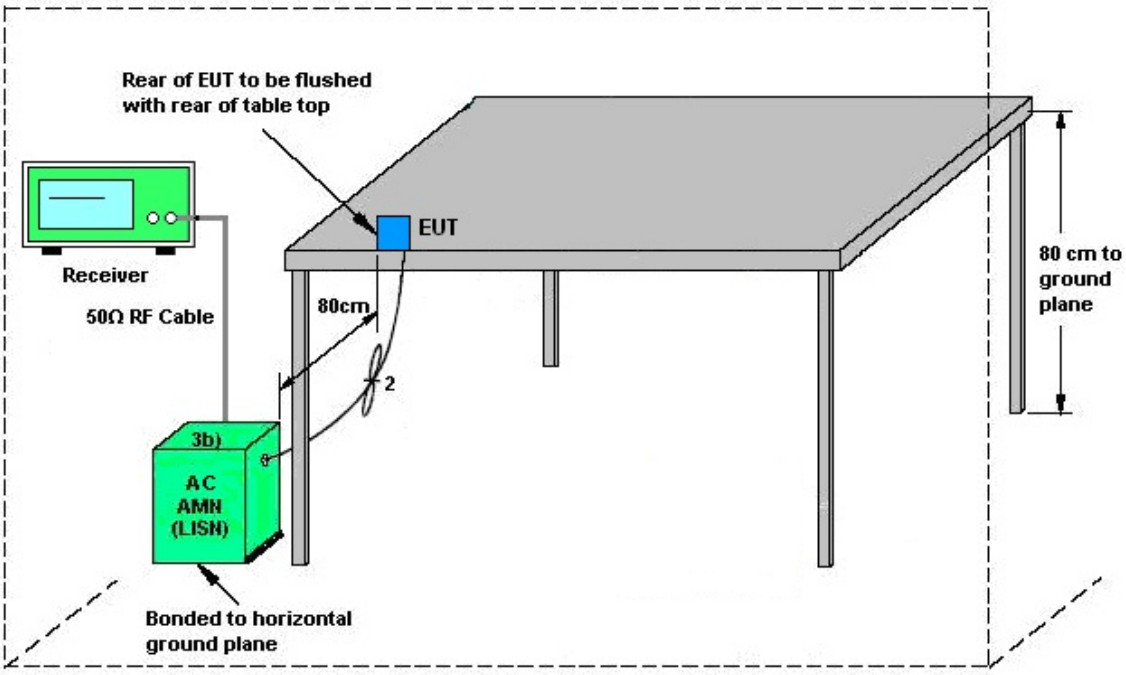
3.5.2 Measuring Instruments

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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Feb. 24, 2023~ Apr. 01, 2023	Sep. 19, 2023	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	0103 & 07	30MHz~1GHz	Apr. 24, 2022	Feb. 24, 2023~ Apr. 01, 2023	Apr. 23, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2022	Feb. 24, 2023~ Apr. 01, 2023	Dec. 25, 2023	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Feb. 24, 2023~ Apr. 01, 2023	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Feb. 24, 2023~ Apr. 01, 2023	May 13, 2023	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	1710001800054002	1GHz~18GHz	Sep. 28, 2022	Feb. 24, 2023~ Apr. 01, 2023	Sep. 27, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz-18GHz	Mar. 08, 2022	Feb. 24, 2023~ Mar. 06, 2023	Mar. 07, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz-18GHz	Mar. 03, 2023	Mar. 07, 2023~ Apr. 01, 2023	Mar. 02, 2024	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Feb. 24, 2023~ Apr. 01, 2023	Oct. 17, 2023	Radiation (03CH15-HY
Spectrum Analyzer	Keysight	N9010	MY54200485	10Hz~44GHz	May 07, 2022	Feb. 24, 2023~ Apr. 01, 2023	May 06, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 24, 2023~ Apr. 01, 2023	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 24, 2023~ Apr. 01, 2023	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Feb. 24, 2023~ Apr. 01, 2023	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4, MY9838/4PE, 519228/2	30MHz~18G	Jun. 21, 2022	Feb. 24, 2023~ Apr. 01, 2023	Jun. 20, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	30MHz-40GHz	Jan. 03, 2023	Feb. 24, 2023~ Apr. 01, 2023	Jan. 02, 2024	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Feb. 24, 2023~ Mar. 07, 2023	Mar. 09, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz-30MHz	Mar. 07, 2023	Apr. 01, 2023	Mar. 06, 2024	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Feb. 10, 2023~ Mar. 16, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2022	Feb. 10, 2023~ Mar. 16, 2023	Sep. 25, 2023	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2022	Feb. 10, 2023~ Mar. 16, 2023	Sep. 25, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Feb. 10, 2023~ Mar. 16, 2023	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 16, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 16, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Feb. 16, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Feb. 16, 2023	Mar. 15, 2023	Conduction (CO07-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2022	Feb. 16, 2023	Nov. 30, 2023	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 04, 2022	Feb. 16, 2023	Mar. 03, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 24, 2022	Feb. 16, 2023	Feb. 23, 2023	Conduction (CO07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.46 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.30 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.20 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.40 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.20 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2023/02/10~2023/03/16	Relative Humidity:	51~54	%

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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	36	5180	16.58	16.58	22.90	25.40	-		22.20		-	
11a	6Mbps	2	44	5220	16.73	16.83	25.75	31.35	-		22.24			
11a	6Mbps	2	48	5240	16.68	16.98	25.65	33.65	-		22.22			

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TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	36	5180	0.04	0.04	18.95	18.56	21.77	24.00		-0.65			Pass
11a	6Mbps	2	44	5220	0.04	0.04	19.14	19.26	22.21	24.00		-0.65			Pass
11a	6Mbps	2	48	5240	0.04	0.04	19.20	19.60	22.42	24.00		-0.65			Pass
HT20	MCS0	2	36	5180	0.00	0.00	18.87	18.60	21.75	24.00		-0.65			Pass
HT20	MCS0	2	44	5220	0.00	0.00	19.92	19.86	22.90	24.00		-0.65			Pass
HT20	MCS0	2	48	5240	0.00	0.00	19.77	19.80	22.80	24.00		-0.65			Pass
HT40	MCS0	2	38	5190	0.00	0.00	17.10	17.01	20.07	24.00		-0.65			Pass
HT40	MCS0	2	46	5230	0.00	0.00	19.55	19.35	22.46	24.00		-0.65		-	Pass
VHT20	MCS0	2	36	5180	0.00	0.00	18.82	18.55	21.70	24.00		-0.65			Pass
VHT20	MCS0	2	44	5220	0.00	0.00	19.87	19.81	22.85	24.00		-0.65			Pass
VHT20	MCS0	2	48	5240	0.00	0.00	19.72	19.75	22.75	24.00		-0.65			Pass
VHT40	MCS0	2	38	5190	0.00	0.00	17.05	16.96	20.02	24.00		-0.65			Pass
VHT40	MCS0	2	46	5230	0.00	0.00	19.50	19.30	22.41	24.00		-0.65			Pass
VHT80	MCS0	2	42	5210	0.00	0.00	16.79	17.15	19.98	24.00		-0.65			Pass
VHT160	MCS0	2	50	5250	0.00	0.00	15.38	15.37	18.39	24.00		-0.65			Pass

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TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	36	5180	-		10.28	11.00		1.05		-	Pass
11a	6Mbps	2	44	5220			10.81	11.00		1.05			Pass
11a	6Mbps	2	48	5240			10.92	11.00		1.05			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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	
11a	6Mbps	2	52	5260	16.73	16.83	26.20	31.40	23.24		29.24		23.98		-
11a	6Mbps	2	60	5300	16.73	16.73	25.20	25.65	23.24		29.24		23.98		
11a	6Mbps	2	64	5320	16.63	16.53	24.90	21.35	23.18		29.18		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	52	5260	0.04	0.04	19.47	19.27	22.38	23.98		-0.84		30	Pass
11a	6Mbps	2	60	5300	0.04	0.04	19.42	19.29	22.37	23.98		-0.84		30	Pass
11a	6Mbps	2	64	5320	0.04	0.04	19.41	18.25	21.88	23.98		-0.84		30	Pass
HT20	MCS0	2	52	5260	0.00	0.00	19.82	19.40	22.63	23.98		-0.84		30	Pass
HT20	MCS0	2	60	5300	0.00	0.00	19.79	18.63	22.26	23.98		-0.84		30	Pass
HT20	MCS0	2	64	5320	0.00	0.00	19.27	18.12	21.74	23.98		-0.84		30	Pass
HT40	MCS0	2	54	5270	0.00	0.00	19.94	19.80	22.88	23.98		-0.84		30	Pass
HT40	MCS0	2	62	5310	0.00	0.00	18.23	17.39	20.84	23.98		-0.84		30	Pass
VHT20	MCS0	2	52	5260	0.00	0.00	19.77	19.35	22.58	23.98		-0.84		30	Pass
VHT20	MCS0	2	60	5300	0.00	0.00	19.74	18.58	22.21	23.98		-0.84		30	Pass
VHT20	MCS0	2	64	5320	0.00	0.00	19.22	18.07	21.69	23.98		-0.84		30	Pass
VHT40	MCS0	2	54	5270	0.00	0.00	19.89	19.75	22.83	23.98		-0.84		30	Pass
VHT40	MCS0	2	62	5310	0.00	0.00	18.18	17.34	20.79	23.98		-0.84		30	Pass
VHT80	MCS0	2	58	5290	0.00	0.00	16.72	16.59	19.67	23.98		-0.84		30	Pass

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TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	52	5260	-		10.96	11.00		0.98		-	Pass
11a	6Mbps	2	60	5300			10.96	11.00		0.98			Pass
11a	6Mbps	2	64	5320			10.57	11.00		0.98			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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8
11a	6Mbps	2	100	5500	16.58	16.58	21.70	21.90	23.20		29.20		23.98		----	----
11a	6Mbps	2	116	5580	16.58	16.58	21.20	24.45	23.20		29.20		23.98		----	----
11a	6Mbps	2	140	5700	16.48	16.43	20.20	19.95	23.16		29.16		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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8
11a	6Mbps	2	144	5720	13.39	13.29	17.15	17.10	22.24		28.24		23.33		3.2	3.2

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	100	5500	0.04	0.04	18.89	18.95	21.93	23.98		-0.20		30	Pass
11a	6Mbps	2	116	5580	0.04	0.04	18.57	18.97	21.79	23.98		-0.20		30	Pass
11a	6Mbps	2	140	5700	0.04	0.04	16.68	17.25	19.99	23.98		-0.20		30	Pass
HT20	MCS0	2	100	5500	0.00	0.00	18.18	18.26	21.23	23.98		-0.20		30	Pass
HT20	MCS0	2	116	5580	0.00	0.00	18.48	18.84	21.67	23.98		-0.20		30	Pass
HT20	MCS0	2	140	5700	0.00	0.00	16.57	17.19	19.90	23.98		-0.20		30	Pass
HT40	MCS0	2	102	5510	0.00	0.00	17.20	17.56	20.39	23.98		-0.20		30	Pass
HT40	MCS0	2	110	5550	0.00	0.00	18.72	19.30	22.03	23.98		-0.20		30	Pass
HT40	MCS0	2	134	5670	0.00	0.00	18.33	18.87	21.62	23.98		-0.20		30	Pass
VHT20	MCS0	2	100	5500	0.00	0.00	18.13	18.21	21.18	23.98		-0.20		30	Pass
VHT20	MCS0	2	116	5580	0.00	0.00	18.43	18.79	21.62	23.98		-0.20		30	Pass
VHT20	MCS0	2	140	5700	0.00	0.00	16.52	17.14	19.85	23.98		-0.20		30	Pass
VHT40	MCS0	2	102	5510	0.00	0.00	17.15	17.51	20.34	23.98		-0.20		30	Pass
VHT40	MCS0	2	110	5550	0.00	0.00	18.67	19.25	21.98	23.98		-0.20		30	Pass
VHT40	MCS0	2	134	5670	0.00	0.00	18.28	18.82	21.57	23.98		-0.20		30	Pass
VHT80	MCS0	2	106	5530	0.00	0.00	16.08	16.52	19.32	23.98		-0.20		30	Pass
VHT80	MCS0	2	122	5610	0.00	0.00	17.78	18.57	21.20	23.98		-0.20		30	Pass
VHT160	MCS0	2	114	5570	0.00	0.00	15.49	16.08	18.81	23.98		-0.20		30	Pass

FCC U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	144	5720	0.04	0.04	18.39	18.43	21.42	23.33		-0.20		30	Pass
HT20	MCS0	2	144	5720	0.00	0.00	18.26	18.31	21.30	23.98		-0.20		30	Pass
HT40	MCS0	2	142	5710	0.00	0.00	18.44	18.48	21.47	23.98		-0.20		30	Pass
VHT20	MCS0	2	144	5720	0.00	0.00	18.21	18.26	21.25	23.98		-0.20		30	Pass
VHT40	MCS0	2	142	5710	0.00	0.00	18.39	18.43	21.42	23.98		-0.20		30	Pass
VHT80	MCS0	2	138	5690	0.00	0.00	18.00	18.89	21.48	23.98		-0.20		30	Pass

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TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	100	5500	-		10.32	11.00		2.76		-	Pass
11a	6Mbps	2	116	5580			10.18	11.00		2.76			Pass
11a	6Mbps	2	140	5700			8.52	11.00		2.76			Pass

U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	144	5720	-		9.63	11.00		2.76		-	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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	36	5180	Full	19.03	19.08	25.15	28.75	-		22.79		-	-
HE20	MCS0	2	44	5220	Full	19.13	19.48	32.00	40.00	-		22.82			
HE20	MCS0	2	48	5240	Full	19.18	19.53	36.45	41.00	-		22.83			
HE40	MCS0	2	38	5190	Full	37.96	37.96	40.68	40.68	-		23.01			
HE40	MCS0	2	46	5230	Full	38.26	38.36	60.66	60.03	-		23.01			
HE80	MCS0	2	42	5210	Full	77.32	77.20	83.20	82.88	-		23.01			
HE160	MCS0	2	50	5250	Full	156.56	156.32	167.68	167.36	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	36	5180	Full	0.00	0.00	18.92	18.65	21.80	24.00		-0.65		-	Pass
HE20	MCS0	2	36	5180	26/0	0.00	0.00	10.29	9.89	13.10	24.00		-0.65			Pass
HE20	MCS0	2	36	5180	52/37	0.00	0.00	12.78	12.80	15.80	24.00		-0.65			Pass
HE20	MCS0	2	36	5180	106/53	0.00	0.00	15.65	15.73	18.70	24.00		-0.65			Pass
HE20	MCS0	2	44	5220	Full	0.00	0.00	19.97	19.91	22.95	24.00		-0.65			Pass
HE20	MCS0	2	44	5220	26/4	0.00	0.00	11.62	12.31	14.99	24.00		-0.65			Pass
HE20	MCS0	2	44	5220	52/38	0.00	0.00	13.42	14.27	16.88	24.00		-0.65			Pass
HE20	MCS0	2	44	5220	106/53	0.00	0.00	16.31	16.93	19.64	24.00		-0.65			Pass
HE20	MCS0	2	48	5240	Full	0.00	0.00	19.82	19.85	22.85	24.00		-0.65			Pass
HE20	MCS0	2	48	5240	26/8	0.00	0.00	10.49	11.06	13.79	24.00		-0.65			Pass
HE20	MCS0	2	48	5240	52/40	0.00	0.00	13.08	14.05	16.60	24.00		-0.65			Pass
HE20	MCS0	2	48	5240	106/54	0.00	0.00	16.22	16.94	19.61	24.00		-0.65			Pass
HE40	MCS0	2	38	5190	Full	0.00	0.00	17.15	17.06	20.12	24.00		-0.65			Pass
HE40	MCS0	2	38	5190	242/61	0.00	0.00	13.78	13.94	16.87	24.00		-0.65			Pass
HE40	MCS0	2	46	5230	Full	0.00	0.00	19.60	19.40	22.51	24.00		-0.65			Pass
HE40	MCS0	2	46	5230	242/62	0.00	0.00	16.28	16.99	19.66	24.00		-0.65			Pass
HE80	MCS0	2	42	5210	Full	0.00	0.00	16.89	17.25	20.08	24.00		-0.65			Pass
HE80	MCS0	2	42	5210	484/65	0.00	0.00	13.71	14.01	16.87	24.00		-0.65			Pass
HE160	MCS0	2	50	5250	Full	0.00	0.00	15.48	15.47	18.49	24.00		-0.65			Pass
HE160	MCS0	2	50	5250	996/67	0.00	0.00	12.50	12.01	15.27	24.00		-0.65			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.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	36	5180	Full			9.67	11.00		1.05			Pass
HE20	MCS0	2	36	5180	26/0			9.56	11.00		1.05			Pass
HE20	MCS0	2	36	5180	52/37			9.62	11.00		1.05			Pass
HE20	MCS0	2	36	5180	106/53			9.66	11.00		1.05			Pass
HE20	MCS0	2	44	5220	Full			10.70	11.00		1.05			Pass
HE20	MCS0	2	44	5220	26/4			10.55	11.00		1.05			Pass
HE20	MCS0	2	44	5220	52/38			10.69	11.00		1.05			Pass
HE20	MCS0	2	44	5220	106/53			10.63	11.00		1.05			Pass
HE20	MCS0	2	48	5240	Full			10.62	11.00		1.05			Pass
HE20	MCS0	2	48	5240	26/8		-	10.49	11.00		1.05		-	Pass
HE20	MCS0	2	48	5240	52/40			10.48	11.00		1.05			Pass
HE20	MCS0	2	48	5240	106/54			10.52	11.00		1.05			Pass
HE40	MCS0	2	38	5190	Full			4.72	11.00		1.05			Pass
HE40	MCS0	2	38	5190	242/61			4.55	11.00		1.05			Pass
HE40	MCS0	2	46	5230	Full			7.34	11.00		1.05			Pass
HE40	MCS0	2	46	5230	242/62			7.30	11.00		1.05			Pass
HE80	MCS0	2	42	5210	Full			1.68	11.00		1.05			Pass
HE80	MCS0	2	42	5210	484/65			1.52	11.00		1.05			Pass
HE160	MCS0	2	50	5250	Full			-2.87	11.00		1.05			Pass
HE160	MCS0	2	50	5250	996/67			-3.15	11.00		1.05			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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	
HE20	MCS0	2	52	5260	Full	19.13	19.28	31.40	35.50	23.82		29.82		23.98		
HE20	MCS0	2	60	5300	Full	19.18	19.08	33.60	28.15	23.81		29.81		23.98		
HE20	MCS0	2	64	5320	Full	19.03	18.98	30.10	22.15	23.78		29.78		23.98		
HE40	MCS0	2	54	5270	Full	38.36	38.56	71.10	71.10	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	38.06	37.96	40.86	40.68	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.32	77.20	83.36	83.04	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)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	52	5260	Full	0.00	0.00	19.87	19.45	22.68	23.98		-0.84		30	Pass
HE20	MCS0	2	52	5260	26/0	0.00	0.00	11.04	10.60	13.84	23.98		-0.84		30	Pass
HE20	MCS0	2	52	5260	52/37	0.00	0.00	13.50	13.41	16.47	23.98		-0.84		30	Pass
HE20	MCS0	2	52	5260	106/53	0.00	0.00	16.62	16.38	19.51	23.98		-0.84		30	Pass
HE20	MCS0	2	60	5300	Full	0.00	0.00	19.84	18.68	22.31	23.98		-0.84		30	Pass
HE20	MCS0	2	60	5300	26/4	0.00	0.00	11.92	10.99	14.49	23.98		-0.84		30	Pass
HE20	MCS0	2	60	5300	52/38	0.00	0.00	13.89	13.19	16.56	23.98		-0.84		30	Pass
HE20	MCS0	2	60	5300	106/53	0.00	0.00	16.44	15.98	19.23	23.98		-0.84		30	Pass
HE20	MCS0	2	64	5320	Full	0.00	0.00	19.32	18.17	21.79	23.98		-0.84		30	Pass
HE20	MCS0	2	64	5320	26/8	0.00	0.00	10.11	9.62	12.88	23.98		-0.84		30	Pass
HE20	MCS0	2	64	5320	52/40	0.00	0.00	12.85	12.19	15.54	23.98		-0.84		30	Pass
HE20	MCS0	2	64	5320	106/54	0.00	0.00	15.63	15.18	18.42	23.98		-0.84		30	Pass
HE40	MCS0	2	54	5270	Full	0.00	0.00	19.99	19.85	22.93	23.98		-0.84		30	Pass
HE40	MCS0	2	54	5270	242/61	0.00	0.00	16.98	16.77	19.89	23.98		-0.84		30	Pass
HE40	MCS0	2	62	5310	Full	0.00	0.00	18.28	17.44	20.89	23.98		-0.84		30	Pass
HE40	MCS0	2	62	5310	242/62	0.00	0.00	14.81	14.41	17.62	23.98		-0.84		30	Pass
HE80	MCS0	2	58	5290	Full	0.00	0.00	16.82	16.79	19.82	23.98		-0.84		30	Pass
HE80	MCS0	2	58	5290	484/66	0.00	0.00	13.31	13.76	16.55	23.98		-0.84		30	Pass
HE160	MCS0	2	50	5250	996/S67	0.00	0.00	11.79	12.25	15.04	23.98		-0.84		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.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	52	5260	Full			10.57	11.00		0.98			Pass
HE20	MCS0	2	52	5260	26/0			10.32	11.00		0.98			Pass
HE20	MCS0	2	52	5260	52/37			10.28	11.00		0.98			Pass
HE20	MCS0	2	52	5260	106/53			10.49	11.00		0.98			Pass
HE20	MCS0	2	60	5300	Full			10.59	11.00		0.98			Pass
HE20	MCS0	2	60	5300	26/4			10.23	11.00		0.98			Pass
HE20	MCS0	2	60	5300	52/38			10.44	11.00		0.98			Pass
HE20	MCS0	2	60	5300	106/53			10.24	11.00		0.98			Pass
HE20	MCS0	2	64	5320	Full			9.90	11.00		0.98			Pass
HE20	MCS0	2	64	5320	26/8	-		9.38	11.00		0.98		-	Pass
HE20	MCS0	2	64	5320	52/40			9.45	11.00		0.98			Pass
HE20	MCS0	2	64	5320	106/54			9.47	11.00		0.98			Pass
HE40	MCS0	2	54	5270	Full			7.72	11.00		0.98			Pass
HE40	MCS0	2	54	5270	242/61			7.57	11.00		0.98			Pass
HE40	MCS0	2	62	5310	Full			5.59	11.00		0.98			Pass
HE40	MCS0	2	62	5310	242/62			5.49	11.00		0.98			Pass
HE80	MCS0	2	58	5290	Full			1.43	11.00		0.98			Pass
HE80	MCS0	2	58	5290	484/66			1.42	11.00		0.98			Pass
HE160	MCS0	2	50	5250	996/S67			-3.30	11.00		0.98			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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8
HE20	MCS0	2	100	5500	Full	18.98	18.98	22.15	22.50	23.78		29.78		23.98		----	----
HE20	MCS0	2	116	5580	Full	19.58	19.23	40.40	35.00	23.84		29.84		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.93	18.93	21.75	21.70	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.96	37.96	40.59	40.68	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	38.06	38.16	41.22	52.38	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.06	38.16	41.04	40.95	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.20	77.20	83.20	83.04	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.32	77.20	82.72	82.40	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	156.56	156.32	166.72	165.76	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 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8	Ant 7	Ant 8
HE20	MCS0	2	144	5720	Full	14.79	14.59	23.30	22.50	22.64		28.64		23.98		4.3	4.35
HE40	MCS0	2	142	5710	Full	34.18	34.18	45.69	42.99	23.98		30.00		23.98		4.17	4.17
HE80	MCS0	2	138	5690	Full	73.60	73.72	77.08	76.28	23.98		30.00		23.98		4.04	4.04

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	100	5500	Full	0.00	0.00	18.23	18.31	21.28	23.98		-0.20		30	Pass
HE20	MCS0	2	100	5500	26/0	0.00	0.00	9.54	9.62	12.59	23.98		-0.20		30	Pass
HE20	MCS0	2	100	5500	52/37	0.00	0.00	12.22	12.08	15.16	23.98		-0.20		30	Pass
HE20	MCS0	2	100	5500	106/53	0.00	0.00	14.89	14.95	17.93	23.98		-0.20		30	Pass
HE20	MCS0	2	116	5580	Full	0.00	0.00	18.53	18.89	21.72	23.98		-0.20		30	Pass
HE20	MCS0	2	116	5580	26/4	0.00	0.00	11.02	11.57	14.31	23.98		-0.20		30	Pass
HE20	MCS0	2	116	5580	52/38	0.00	0.00	12.67	13.07	15.88	23.98		-0.20		30	Pass
HE20	MCS0	2	116	5580	106/53	0.00	0.00	15.31	15.85	18.60	23.98		-0.20		30	Pass
HE20	MCS0	2	140	5700	Full	0.00	0.00	16.62	17.24	19.95	23.98		-0.20		30	Pass
HE20	MCS0	2	140	5700	26/8	0.00	0.00	7.98	7.94	10.97	23.98		-0.20		30	Pass
HE20	MCS0	2	140	5700	52/40	0.00	0.00	10.56	11.30	13.96	23.98		-0.20		30	Pass
HE20	MCS0	2	140	5700	106/54	0.00	0.00	13.35	14.03	16.71	23.98		-0.20		30	Pass
HE40	MCS0	2	102	5510	Full	0.00	0.00	17.25	17.61	20.44	23.98		-0.20		30	Pass
HE40	MCS0	2	102	5510	242/61	0.00	0.00	14.01	14.32	17.18	23.98		-0.20		30	Pass
HE40	MCS0	2	110	5550	Full	0.00	0.00	18.77	19.35	22.08	23.98		-0.20		30	Pass
HE40	MCS0	2	110	5550	242/61	0.00	0.00	15.75	16.49	19.15	23.98		-0.20		30	Pass
HE40	MCS0	2	134	5670	Full	0.00	0.00	18.38	18.92	21.67	23.98		-0.20		30	Pass
HE40	MCS0	2	134	5670	242/62	0.00	0.00	14.70	15.37	18.06	23.98		-0.20		30	Pass
HE80	MCS0	2	106	5530	Full	0.00	0.00	16.18	16.62	19.42	23.98		-0.20		30	Pass
HE80	MCS0	2	106	5530	484/65	0.00	0.00	13.00	13.06	16.04	23.98		-0.20		30	Pass
HE80	MCS0	2	122	5610	Full	0.00	0.00	17.88	18.67	21.30	23.98		-0.20		30	Pass
HE80	MCS0	2	122	5610	484/66	0.00	0.00	14.56	15.24	17.92	23.98		-0.20		30	Pass
HE160	MCS0	2	114	5570	Full	0.00	0.00	15.59	16.18	18.91	23.98		-0.20		30	Pass
HE160	MCS0	2	114	5570	996/67	0.00	0.00	12.53	12.78	15.67	23.98		-0.20		30	Pass
HE160	MCS0	2	114	5570	996/S67	0.00	0.00	12.10	12.72	15.43	23.98		-0.20		30	Pass

FCC U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	144	5720	Full	0.00	0.00	18.31	18.36	21.35	23.98		-0.20		30	Pass
HE20	MCS0	2	144	5720	26/8	0.00	0.00	10.63	10.61	13.63	23.98		-0.20		30	Pass
HE20	MCS0	2	144	5720	52/40	0.00	0.00	12.46	12.33	15.41	23.98		-0.20		30	Pass
HE20	MCS0	2	144	5720	106/54	0.00	0.00	14.81	14.73	17.78	23.98		-0.20		30	Pass
HE40	MCS0	2	142	5710	Full	0.00	0.00	18.49	18.53	21.52	23.98		-0.20		30	Pass
HE40	MCS0	2	142	5710	242/62	0.00	0.00	14.85	14.67	17.77	23.98		-0.20		30	Pass
HE80	MCS0	2	138	5690	Full	0.00	0.00	18.10	18.99	21.58	23.98		-0.20		30	Pass
HE80	MCS0	2	138	5690	484/66	0.00	0.00	14.81	15.66	18.27	23.98		-0.20		30	Pass

Report Number : FR311909E

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	100	5500	Full			9.31	11.00		2.76			Pass
HE20	MCS0	2	100	5500	26/0			8.89	11.00		2.76			Pass
HE20	MCS0	2	100	5500	52/37			8.99	11.00		2.76			Pass
HE20	MCS0	2	100	5500	106/53			8.99	11.00		2.76			Pass
HE20	MCS0	2	116	5580	Full			9.55	11.00		2.76			Pass
HE20	MCS0	2	116	5580	26/4			9.15	11.00		2.76			Pass
HE20	MCS0	2	116	5580	52/38			9.38	11.00		2.76			Pass
HE20	MCS0	2	116	5580	106/53			9.52	11.00		2.76			Pass
HE20	MCS0	2	140	5700	Full			7.77	11.00		2.76			Pass
HE20	MCS0	2	140	5700	26/8			6.95	11.00		2.76			Pass
HE20	MCS0	2	140	5700	52/40			7.65	11.00		2.76			Pass
HE20	MCS0	2	140	5700	106/54			7.62	11.00		2.76			Pass
HE40	MCS0	2	102	5510	Full	-		5.15	11.00		2.76		-	Pass
HE40	MCS0	2	102	5510	242/61			5.06	11.00		2.76			Pass
HE40	MCS0	2	110	5550	Full			6.96	11.00		2.76			Pass
HE40	MCS0	2	110	5550	242/61			6.40	11.00		2.76			Pass
HE40	MCS0	2	134	5670	Full			6.35	11.00		2.76			Pass
HE40	MCS0	2	134	5670	242/62			5.82	11.00		2.76			Pass
HE80	MCS0	2	106	5530	Full			1.41	11.00		2.76			Pass
HE80	MCS0	2	106	5530	484/65			0.91	11.00		2.76			Pass
HE80	MCS0	2	122	5610	Full			3.09	11.00		2.76			Pass
HE80	MCS0	2	122	5610	484/66			2.69	11.00		2.76			Pass
HE160	MCS0	2	114	5570	Full			-2.22	11.00		2.76			Pass
HE160	MCS0	2	114	5570	996/67			-2.46	11.00		2.76			Pass
HE160	MCS0	2	114	5570	996/S67			-2.46	11.00		2.76			Pass

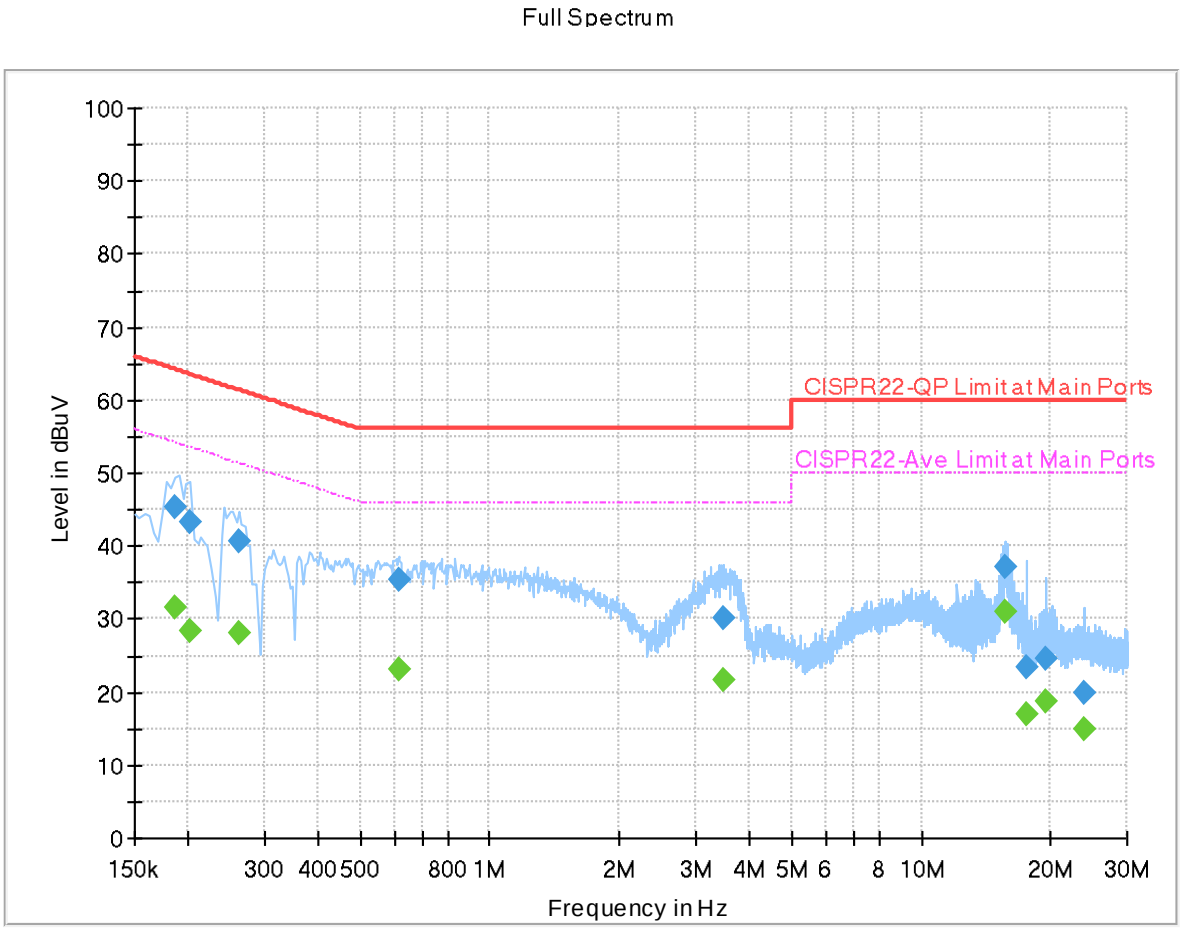
U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	144	5720	Full			9.01	11.00		2.76			Pass
HE20	MCS0	2	144	5720	26/8			8.98	11.00		2.76			Pass
HE20	MCS0	2	144	5720	52/40			8.64	11.00		2.76			Pass
HE20	MCS0	2	144	5720	106/54			8.51	11.00		2.76			Pass
HE40	MCS0	2	142	5710	Full	-		6.27	11.00		2.76		-	Pass
HE40	MCS0	2	142	5710	242/62			6.26	11.00		2.76			Pass
HE80	MCS0	2	138	5690	Full			3.46	11.00		2.76			Pass
HE80	MCS0	2	138	5690	484/66			2.97	11.00		2.76			Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	16.4~24.5℃
		Relative Humidity :	38.6~44.7%

EUT Information

Report NO :	311909
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

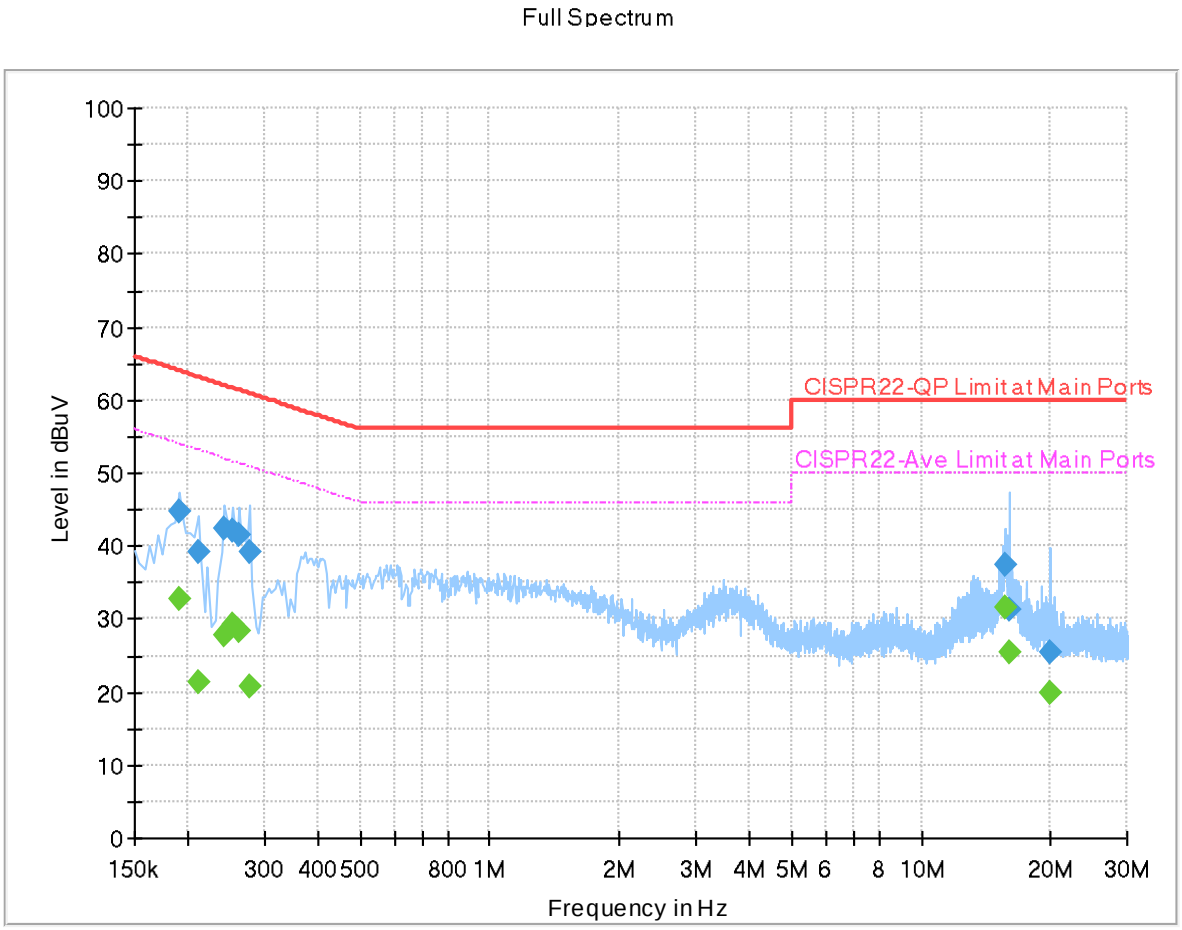


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	---	31.56	54.21	22.65	L1	OFF	19.7
0.186000	45.37	---	64.21	18.84	L1	OFF	19.7
0.202000	---	28.42	53.53	25.11	L1	OFF	19.7
0.202000	43.22	---	63.53	20.31	L1	OFF	19.7
0.262000	---	27.97	51.37	23.40	L1	OFF	19.7
0.262000	40.68	---	61.37	20.69	L1	OFF	19.7
0.614000	---	23.04	46.00	22.96	L1	OFF	19.7
0.614000	35.25	---	56.00	20.75	L1	OFF	19.7
3.494000	---	21.56	46.00	24.44	L1	OFF	19.8
3.494000	30.00	---	56.00	26.00	L1	OFF	19.8
15.746000	---	30.97	50.00	19.03	L1	OFF	19.9
15.746000	37.09	---	60.00	22.91	L1	OFF	19.9
17.650000	---	17.06	50.00	32.94	L1	OFF	19.9
17.650000	23.33	---	60.00	36.67	L1	OFF	19.9
19.442000	---	18.69	50.00	31.31	L1	OFF	19.9
19.442000	24.53	---	60.00	35.47	L1	OFF	19.9
23.990000	---	14.83	50.00	35.17	L1	OFF	19.9
23.990000	19.84	---	60.00	40.16	L1	OFF	19.9

EUT Information

Report NO :	311909
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)
0.190000	---	32.66	54.04	21.38	N	OFF	20.0
0.190000	44.83	---	64.04	19.21	N	OFF	20.0
0.210000	---	21.46	53.21	31.75	N	OFF	20.0
0.210000	39.15	---	63.21	24.06	N	OFF	20.0
0.242000	---	27.87	52.03	24.16	N	OFF	20.0
0.242000	42.54	---	62.03	19.49	N	OFF	20.0
0.254000	---	29.31	51.63	22.32	N	OFF	20.0
0.254000	42.06	---	61.63	19.57	N	OFF	20.0
0.262000	---	28.28	51.37	23.09	N	OFF	20.0
0.262000	41.59	---	61.37	19.78	N	OFF	20.0
0.278000	---	20.74	50.88	30.14	N	OFF	20.0
0.278000	39.17	---	60.88	21.71	N	OFF	20.0
15.646000	---	31.58	50.00	18.42	N	OFF	20.2
15.646000	37.47	---	60.00	22.53	N	OFF	20.2
16.006000	---	25.39	50.00	24.61	N	OFF	20.3
16.006000	31.37	---	60.00	28.63	N	OFF	20.3
20.010000	---	19.76	50.00	30.24	N	OFF	20.3
20.010000	25.34	---	60.00	34.66	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Eric Shou, Quentin Liu and Bigshow Wang	Temperature :	21~26°C
		Relative Humidity :	45~60%

<Sample 1 with Battery 1>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 7+8	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		5150	66.52	-7.48	74	60.95	33.2	9.1	36.73	239	62	P	H
		5150	52.47	-1.53	54	46.9	33.2	9.1	36.73	239	62	A	H
	*	5180	113.1	-	-	107.53	33.14	9.16	36.73	239	62	P	H
	*	5180	106.07	-	-	100.5	33.14	9.16	36.73	239	62	A	H
													H
		5149.6	66.39	-7.61	74	60.82	33.2	9.1	36.73	351	10	P	V
		5150	51.64	-2.36	54	46.07	33.2	9.1	36.73	351	10	A	V
	*	5180	112.07	-	-	106.5	33.14	9.16	36.73	351	10	P	V
	*	5180	105.54	-	-	99.97	33.14	9.16	36.73	351	10	A	V
													V
802.11a CH 44 5220MHz		5149.5	49.35	-24.65	74	43.78	33.2	9.1	36.73	119	351	P	H
		5149.24	40	-14	54	34.43	33.2	9.1	36.73	119	351	A	H
	*	5220	115.08	-	-	109.57	33.02	9.22	36.73	119	351	P	H
	*	5220	108.19	-	-	102.68	33.02	9.22	36.73	119	351	A	H
		5350.52	48.32	-25.68	74	42.77	32.9	9.37	36.72	119	351	P	H
		5354.16	38.16	-15.84	54	32.59	32.91	9.38	36.72	119	351	A	H
		5146.38	48.87	-25.13	74	43.3	33.2	9.1	36.73	350	0	P	V
		5148.98	39.22	-14.78	54	33.65	33.2	9.1	36.73	350	0	A	V
	*	5220	113.66	-	-	108.15	33.02	9.22	36.73	350	0	P	V
	*	5220	107.84	-	-	102.33	33.02	9.22	36.73	350	0	A	V
		5413.52	48.4	-25.6	74	42.68	33	9.44	36.72	350	0	P	V
		5354.72	38.06	-15.94	54	32.49	32.91	9.38	36.72	350	0	A	V

802.11a CH 48 5240MHz		5062.7	48.61	-25.39	74	43.21	33.2	8.93	36.73	132	351	P	H
		5085.8	38.46	-15.54	54	33.01	33.2	8.98	36.73	132	351	A	H
	*	5240	113.32	-	-	107.86	32.94	9.25	36.73	132	351	P	H
	*	5240	106.24	-	-	100.78	32.94	9.25	36.73	132	351	A	H
		5350.52	47.98	-26.02	74	42.43	32.9	9.37	36.72	132	351	P	H
		5350	37.8	-16.2	54	32.25	32.9	9.37	36.72	132	351	A	H
		5081.6	48.84	-25.16	74	43.4	33.2	8.97	36.73	319	357	P	V
		5091.2	37.79	-16.21	54	32.33	33.2	8.99	36.73	319	357	A	V
	*	5240	114.61	-	-	109.15	32.94	9.25	36.73	319	357	P	V
	*	5240	107.18	-	-	101.72	32.94	9.25	36.73	319	357	A	V
		5355.84	47.91	-26.09	74	42.34	32.91	9.38	36.72	319	357	P	V
		5350	37.94	-16.06	54	32.39	32.9	9.37	36.72	319	357	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. 7+8	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		6900.8	57.86	-10.34	68.2	63.11	35.6	11.35	52.2	211	357	P	H
		10360	50.64	-17.56	68.2	53.86	38.74	12.88	54.84	-	-	P	H
		15530	51.22	-22.78	74	52.4	38.07	15.57	54.82	-	-	P	H
		15530	42.47	-11.53	54	43.65	38.07	15.57	54.82	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		6900.8	60.01	-8.19	68.2	65.26	35.6	11.35	52.2	304	304	P	V
		10360	51.33	-16.87	68.2	54.55	38.74	12.88	54.84	-	-	P	V
		15530	50.72	-23.28	74	51.9	38.07	15.57	54.82	-	-	P	V
		15530	41.36	-12.64	54	42.54	38.07	15.57	54.82	-	-	A	V
													V
													V
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													V
													V
													V

WIFI Ant. 7+8	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		6960	57.96	-10.24	68.2	63.26	35.64	11.32	52.26	194	0	P	H
		10440	50.82	-17.38	68.2	54.03	38.74	12.93	54.88	-	-	P	H
		15660	51.82	-22.18	74	53.38	37.76	15.61	54.93	-	-	P	H
		15660	41.8	-12.2	54	43.36	37.76	15.61	54.93	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		6960	59.69	-8.51	68.2	64.99	35.64	11.32	52.26	294	306	P	V
		10440	50.63	-17.57	68.2	53.84	38.74	12.93	54.88	-	-	P	V
		15660	51.84	-22.16	74	53.4	37.76	15.61	54.93	-	-	P	V
		15660	41.86	-12.14	54	43.42	37.76	15.61	54.93	-	-	A	V
													V
													V
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													V
													V
													V
													V

WIFI Ant. 7+8	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		6986.667	58.16	-10.04	68.2	63.4	35.75	11.3	52.29	252	298	P	H
		10480	51.33	-16.87	68.2	54.49	38.78	12.95	54.89	-	-	P	H
		15720	51.73	-22.27	74	53.43	37.64	15.64	54.98	-	-	P	H
		15720	42.76	-11.24	54	44.46	37.64	15.64	54.98	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		6986.667	59.71	-8.49	68.2	64.95	35.75	11.3	52.29	298	307	P	V
		10480	50.75	-17.45	68.2	53.91	38.78	12.95	54.89	-	-	P	V
		15720	52.6	-21.4	74	54.3	37.64	15.64	54.98	-	-	P	V
		15720	43.68	-10.32	54	45.38	37.64	15.64	54.98	-	-	A	V
													V
													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 1 5150~5250MHz

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

WIFI Ant. 7+8	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		5150	72.4	-1.6	74	66.83	33.2	9.1	36.73	240	60	P	H
		5150	51.83	-2.17	54	46.26	33.2	9.1	36.73	240	60	A	H
	*	5180	113.77	-	-	108.2	33.14	9.16	36.73	240	60	P	H
	*	5180	106.27	-	-	100.7	33.14	9.16	36.73	240	60	A	H
													H
													H
		5149.6	70	-4	74	64.43	33.2	9.1	36.73	348	11	P	V
		5149.8	52.05	-1.95	54	46.48	33.2	9.1	36.73	348	11	A	V
	*	5180	113.13	-	-	107.56	33.14	9.16	36.73	348	11	P	V
	*	5180	105.61	-	-	100.04	33.14	9.16	36.73	348	11	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5068.38	49.81	-24.19	74	44.4	33.2	8.94	36.73	248	337	P	H
		5150	39.18	-14.82	54	33.61	33.2	9.1	36.73	248	337	A	H
	*	5220	114.49	-	-	108.98	33.02	9.22	36.73	248	337	P	H
	*	5220	107.67	-	-	102.16	33.02	9.22	36.73	248	337	A	H
		5398.12	48.26	-25.74	74	42.55	33	9.43	36.72	248	337	P	H
		5374.88	38.17	-15.83	54	32.54	32.95	9.4	36.72	248	337	A	H
		5147.94	48.41	-25.59	74	42.84	33.2	9.1	36.73	340	350	P	V
		5149.76	38.71	-15.29	54	33.14	33.2	9.1	36.73	340	350	A	V
	*	5220	115.34	-	-	109.83	33.02	9.22	36.73	340	350	P	V
	*	5220	106.39	-	-	100.88	33.02	9.22	36.73	340	350	A	V
		5428.92	48.12	-25.88	74	42.4	33	9.44	36.72	340	350	P	V
		5350.24	37.56	-16.44	54	32.01	32.9	9.37	36.72	340	350	A	V

802.11ax HE20 Full CH 48 5240MHz		5139.8	49.13	-24.87	74	43.58	33.2	9.08	36.73	262	338	P	H
		5087.9	39	-15	54	33.55	33.2	8.98	36.73	262	338	A	H
	*	5240	116.21	-	-	110.75	32.94	9.25	36.73	262	338	P	H
	*	5240	107.88	-	-	102.42	32.94	9.25	36.73	262	338	A	H
		5405.4	48.88	-25.12	74	43.17	33	9.43	36.72	262	338	P	H
		5352.76	38.56	-15.44	54	32.99	32.91	9.38	36.72	262	338	A	H
		5085.2	48.64	-25.36	74	43.19	33.2	8.98	36.73	320	359	P	V
		5148.5	37.77	-16.23	54	32.2	33.2	9.1	36.73	320	359	A	V
	*	5240	115.52	-	-	110.06	32.94	9.25	36.73	320	359	P	V
	*	5240	106.43	-	-	100.97	32.94	9.25	36.73	320	359	A	V
		5375.44	49.13	-24.87	74	43.5	32.95	9.4	36.72	320	359	P	V
		5350	38.58	-15.42	54	33.03	32.9	9.37	36.72	320	359	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. 7+8	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)
		6900.8	57.12	-11.08	68.2	62.37	35.6	11.35	52.2	215	360	P	H
		10360	50.84	-17.36	68.2	54.06	38.74	12.88	54.84	-	-	P	H
		15540	50.95	-23.05	74	52.15	38.06	15.57	54.83	-	-	P	H
		15540	42.28	-11.72	54	43.48	38.06	15.57	54.83	-	-	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		6900.8	59.72	-8.48	68.2	64.97	35.6	11.35	52.2	310	301	P	V
5180MHz		10360	50.87	-17.33	68.2	54.09	38.74	12.88	54.84	-	-	P	V
		15540	51.09	-22.91	74	52.29	38.06	15.57	54.83	-	-	P	V
		15540	42.54	-11.46	54	43.74	38.06	15.57	54.83	-	-	A	V
													V
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													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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)
		6960	58.26	-9.94	68.2	63.56	35.64	11.32	52.26	247	299	P	H
		10440	50.54	-17.66	68.2	53.75	38.74	12.93	54.88	-	-	P	H
		15660	51.28	-22.72	74	52.84	37.76	15.61	54.93	-	-	P	H
		15660	42.29	-11.71	54	43.85	37.76	15.61	54.93	-	-	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		6960	59.29	-8.91	68.2	64.59	35.64	11.32	52.26	291	304	P	V
5220MHz		10440	50.07	-18.13	68.2	53.28	38.74	12.93	54.88	-	-	P	V
		15660	50.79	-23.21	74	52.35	37.76	15.61	54.93	-	-	P	V
		15660	41.82	-12.18	54	43.38	37.76	15.61	54.93	-	-	A	V
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													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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 48 5240MHz		6986.667	58.41	-9.79	68.2	63.65	35.75	11.3	52.29	240	293	P	H
		10480	50	-18.2	68.2	53.16	38.78	12.95	54.89	-	-	P	H
		15720	51.67	-22.33	74	53.37	37.64	15.64	54.98	-	-	P	H
		15720	42.68	-11.32	54	44.38	37.64	15.64	54.98	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		6986.667	59.24	-8.96	68.2	64.48	35.75	11.3	52.29	287	306	P	V
		10480	50.33	-17.87	68.2	53.49	38.78	12.95	54.89	-	-	P	V
		15720	51.75	-22.25	74	53.45	37.64	15.64	54.98	-	-	P	V
		15720	42.74	-11.26	54	44.44	37.64	15.64	54.98	-	-	A	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 Partial 106 (Band Edge @ 3m)

WIFI Ant. 7+8	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		5145	69.22	-4.78	74	63.66	33.2	9.09	36.73	250	64	P	H
		5147.2	46.56	-7.44	54	40.99	33.2	9.1	36.73	250	64	A	H
	*	5180	112.97	-	-	107.4	33.14	9.16	36.73	250	64	P	H
	*	5180	104.95	-	-	99.38	33.14	9.16	36.73	250	64	A	H
													H
													H
		5146.2	71.5	-2.5	74	65.93	33.2	9.1	36.73	332	28	P	V
		5146.2	48.83	-5.17	54	43.26	33.2	9.1	36.73	332	28	A	V
	*	5180	112.86	-	-	107.29	33.14	9.16	36.73	332	28	P	V
	*	5180	104.37	-	-	98.8	33.14	9.16	36.73	332	28	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 7+8	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		5150	58.71	-15.29	74	53.14	33.2	9.1	36.73	208	46	P	H
		5150	48.62	-5.38	54	43.05	33.2	9.1	36.73	208	46	A	H
	*	5190	108.05	-	-	102.48	33.12	9.18	36.73	208	46	P	H
	*	5190	100.44	-	-	94.87	33.12	9.18	36.73	208	46	A	H
		5352.9	48.91	-25.09	74	43.34	32.91	9.38	36.72	208	46	P	H
		5352	38.06	-15.94	54	32.51	32.9	9.37	36.72	208	46	A	H
		5147.84	62.58	-11.42	74	57.01	33.2	9.1	36.73	297	18	P	V
		5149.6	51.41	-2.59	54	45.84	33.2	9.1	36.73	297	18	A	V
	*	5190	109.62	-	-	104.05	33.12	9.18	36.73	297	18	P	V
	*	5190	101.1	-	-	95.53	33.12	9.18	36.73	297	18	A	V
		5351.1	48.74	-25.26	74	43.19	32.9	9.37	36.72	297	18	P	V
		5350	39.15	-14.85	54	33.6	32.9	9.37	36.72	297	18	A	V
802.11ax HE40 Full CH 46 5230MHz		5142.22	64.47	-9.53	74	58.91	33.2	9.09	36.73	199	32	P	H
		5149.76	47.73	-6.27	54	42.16	33.2	9.1	36.73	199	32	A	H
	*	5230	112.06	-	-	106.58	32.98	9.23	36.73	199	32	P	H
	*	5230	103.5	-	-	98.02	32.98	9.23	36.73	199	32	A	H
		5382	57.15	-16.85	74	51.5	32.96	9.41	36.72	199	32	P	H
		5351.58	42.77	-11.23	54	37.22	32.9	9.37	36.72	199	32	A	H
		5145.6	66.83	-7.17	74	61.27	33.2	9.09	36.73	182	4	P	V
		5150	48.35	-5.65	54	42.78	33.2	9.1	36.73	182	4	A	V
	*	5230	109.6	-	-	104.12	32.98	9.23	36.73	182	4	P	V
	*	5230	101.62	-	-	96.14	32.98	9.23	36.73	182	4	A	V
		5351.32	58.43	-15.57	74	52.88	32.9	9.37	36.72	182	4	P	V
		5350.54	42.25	-11.75	54	36.7	32.9	9.37	36.72	182	4	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. 7+8	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)
		6920	58.59	-9.61	68.2	63.87	35.6	11.34	52.22	251	288	P	H
		10380	51.08	-17.12	68.2	54.32	38.72	12.89	54.85	-	-	P	H
		15570	52.49	-21.51	74	53.74	38.03	15.58	54.86	-	-	P	H
		15570	42.51	-11.49	54	43.76	38.03	15.58	54.86	-	-	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		6920	60.21	-7.99	68.2	65.49	35.6	11.34	52.22	310	309	P	V
5190MHz		10380	51.12	-17.08	68.2	54.36	38.72	12.89	54.85	-	-	P	V
		15570	52.66	-21.34	74	53.91	38.03	15.58	54.86	-	-	P	V
		15570	42.68	-11.32	54	43.93	38.03	15.58	54.86	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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 46 5230MHz		6973	58.61	-9.59	68.2	63.88	35.69	11.31	52.27	251	298	P	H
		10460	51.08	-17.12	68.2	54.26	38.76	12.94	54.88	-	-	P	H
		15690	52.38	-21.62	74	54.07	37.64	15.62	54.95	-	-	P	H
		15690	43.37	-10.63	54	45.06	37.64	15.62	54.95	-	-	A	H
													H
													H
													H
													H
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													H
													H
													H
		6973.333	59.25	-8.95	68.2	64.52	35.69	11.31	52.27	310	306	P	V
		10460	50.44	-17.76	68.2	53.62	38.76	12.94	54.88	-	-	P	V
		15690	51.85	-22.15	74	53.54	37.64	15.62	54.95	-	-	P	V
		15690	42.89	-11.11	54	44.58	37.64	15.62	54.95	-	-	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. 7+8	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		5145.2	67.06	-6.94	74	61.5	33.2	9.09	36.73	254	346	P	H
		5145.2	44.66	-9.34	54	39.1	33.2	9.09	36.73	254	346	A	H
	*	5190	112.32	-	-	106.75	33.12	9.18	36.73	254	346	P	H
	*	5190	102.04	-	-	96.47	33.12	9.18	36.73	254	346	A	H
		5407.5	48.5	-25.5	74	42.79	33	9.43	36.72	254	346	P	H
		5351.7	37.71	-16.29	54	32.16	32.9	9.37	36.72	254	346	A	H
		5143.88	69.12	-4.88	74	63.56	33.2	9.09	36.73	350	28	P	V
		5147.62	47.5	-6.5	54	41.93	33.2	9.1	36.73	350	28	A	V
	*	5190	111.48	-	-	105.91	33.12	9.18	36.73	350	28	P	V
	*	5190	100.71	-	-	95.14	33.12	9.18	36.73	350	28	A	V
		5351.4	49.12	-24.88	74	43.57	32.9	9.37	36.72	350	28	P	V
		5351.7	38.15	-15.85	54	32.6	32.9	9.37	36.72	350	28	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. 7+8	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		5140.14	63.38	-10.62	74	57.83	33.2	9.08	36.73	200	31	P	H
		5149.24	51.68	-2.32	54	46.11	33.2	9.1	36.73	200	31	A	H
	*	5210	106.19	-	-	100.65	33.06	9.21	36.73	200	31	P	H
	*	5210	97.88	-	-	92.34	33.06	9.21	36.73	200	31	A	H
		5353.5	51.81	-22.19	74	46.24	32.91	9.38	36.72	200	31	P	H
		5351.1	40.65	-13.35	54	35.1	32.9	9.37	36.72	200	31	A	H
		5149.24	64.31	-9.69	74	58.74	33.2	9.1	36.73	343	24	P	V
		5145.86	52.79	-1.21	54	47.23	33.2	9.09	36.73	343	24	A	V
	*	5210	106.01	-	-	100.47	33.06	9.21	36.73	343	24	P	V
	*	5210	97.49	-	-	91.95	33.06	9.21	36.73	343	24	A	V
		5353.8	53.45	-20.55	74	47.88	32.91	9.38	36.72	343	24	P	V
		5350	41.7	-12.3	54	36.15	32.9	9.37	36.72	343	24	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. 7+8	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)
		6946.667	58.01	-10.19	68.2	63.34	35.6	11.32	52.25	253	196	P	H
		10420	51.12	-17.08	68.2	54.35	38.72	12.92	54.87	-	-	P	H
		15630	51.66	-22.34	74	53.08	37.88	15.6	54.9	-	-	P	H
		15630	42.71	-11.29	54	44.13	37.88	15.6	54.9	-	-	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		6946.667	59.04	-9.16	68.2	64.37	35.6	11.32	52.25	309	303	P	V
5210MHz		10420	51.15	-17.05	68.2	54.38	38.72	12.92	54.87	-	-	P	V
		15630	52.11	-21.89	74	53.53	37.88	15.6	54.9	-	-	P	V
		15630	43.1	-10.9	54	44.52	37.88	15.6	54.9	-	-	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. 7+8	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		5149.5	71.34	-2.66	74	65.77	33.2	9.1	36.73	253	331	P	H
		5149.76	49.69	-4.31	54	44.12	33.2	9.1	36.73	253	331	A	H
	*	5210	108.44	-	-	102.9	33.06	9.21	36.73	253	331	P	H
	*	5210	99.89	-	-	94.35	33.06	9.21	36.73	253	331	A	H
		5371.8	62.28	-11.72	74	56.66	32.94	9.4	36.72	253	331	P	H
		5372.1	40.26	-13.74	54	34.64	32.94	9.4	36.72	253	331	A	H
		5149.76	70.09	-3.91	74	64.52	33.2	9.1	36.73	352	21	P	V
		5149.5	49.51	-4.49	54	43.94	33.2	9.1	36.73	352	21	A	V
	*	5210	105.92	-	-	100.38	33.06	9.21	36.73	352	21	P	V
	*	5210	97.88	-	-	92.34	33.06	9.21	36.73	352	21	A	V
		5366.4	60.01	-13.99	74	54.41	32.93	9.39	36.72	352	21	P	V
		5372.1	39.99	-14.01	54	34.37	32.94	9.4	36.72	352	21	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. 7+8	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		5147.9	54.2	-19.8	74	48.63	33.2	9.1	36.73	150	306	P	H
		5147.22	45.57	-8.43	54	40	33.2	9.1	36.73	150	306	A	H
	*	5250	102.29	-	-	96.85	32.9	9.26	36.72	150	306	P	H
	*	5250	93.52	-	-	88.08	32.9	9.26	36.72	150	306	A	H
		5378.7	62.37	-11.63	74	56.72	32.96	9.41	36.72	150	306	P	H
		5379	51.19	-2.81	54	45.54	32.96	9.41	36.72	150	306	A	H
		5117.98	58.71	-15.29	74	53.2	33.2	9.04	36.73	300	16	P	V
		5123.76	49.14	-4.86	54	43.62	33.2	9.05	36.73	300	16	A	V
	*	5250	103.38	-	-	97.94	32.9	9.26	36.72	300	16	P	V
	*	5250	93.65	-	-	88.21	32.9	9.26	36.72	300	16	A	V
		5394	64.85	-9.15	74	59.16	32.99	9.42	36.72	300	16	P	V
		5378.7	52.64	-1.36	54	46.99	32.96	9.41	36.72	300	16	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+8	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		6999.9	57.68	-10.52	68.2	62.89	35.8	11.29	52.3	196	315	P	H
		10500	49.22	-18.98	68.2	52.36	38.8	12.96	54.9	-	-	P	H
		15750	51.26	-22.74	74	52.91	37.7	15.65	55	-	-	P	H
		15750	42.11	-11.89	54	43.76	37.7	15.65	55	-	-	A	H
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													H
		6999.9	58.83	-9.37	68.2	64.04	35.8	11.29	52.3	296	307	P	V
		10500	49.71	-18.49	68.2	52.85	38.8	12.96	54.9	-	-	P	V
		15750	50.79	-23.21	74	52.44	37.7	15.65	55	-	-	P	V
		15750	41.72	-12.28	54	43.37	37.7	15.65	55	-	-	A	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 1 5150~5250MHz

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

WIFI Ant. 7+8	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		5125.46	66.98	-7.02	74	61.46	33.2	9.05	36.73	291	334	P	H
		5125.46	50.31	-3.69	54	44.79	33.2	9.05	36.73	291	334	A	H
	*	5250	102.05	-	-	96.61	32.9	9.26	36.72	291	334	P	H
	*	5250	93.86	-	-	88.42	32.9	9.26	36.72	291	334	A	H
		5401.5	67.95	-6.05	74	62.24	33	9.43	36.72	291	334	P	H
		5391.6	45.08	-8.92	54	39.4	32.98	9.42	36.72	291	334	A	H
		5127.84	69.14	-4.86	74	63.61	33.2	9.06	36.73	302	19	P	V
		5128.18	52.29	-1.71	54	46.76	33.2	9.06	36.73	302	19	A	V
	*	5250	101.89	-	-	96.45	32.9	9.26	36.72	302	19	P	V
	*	5250	94.01	-	-	88.57	32.9	9.26	36.72	302	19	A	V
		5403.9	71.14	-2.86	74	65.43	33	9.43	36.72	302	19	P	V
		5394.6	48.09	-5.91	54	42.4	32.99	9.42	36.72	302	19	A	V
802.11ax HE160 Partial 996/S67 CH 50 5250MHz		5129.54	69.03	-4.97	74	63.5	33.2	9.06	36.73	296	330	P	H
		5125.46	51.99	-2.01	54	46.47	33.2	9.05	36.73	296	330	A	H
	*	5250	103.79	-	-	98.35	32.9	9.26	36.72	296	330	P	H
	*	5250	95.26	-	-	89.82	32.9	9.26	36.72	296	330	A	H
		5401.5	70.19	-3.81	74	64.48	33	9.43	36.72	296	330	P	H
		5396.1	48.09	-5.91	54	42.39	32.99	9.43	36.72	296	330	A	H
		5122.74	68.38	-5.62	74	62.86	33.2	9.05	36.73	311	20	P	V
		5128.18	51.84	-2.16	54	46.31	33.2	9.06	36.73	311	20	A	V
	*	5250	104.15	-	-	98.71	32.9	9.26	36.72	311	20	P	V
	*	5250	95.37	-	-	89.93	32.9	9.26	36.72	311	20	A	V
		5404.2	72.78	-1.22	74	67.07	33	9.43	36.72	311	20	P	V
		5398.8	50.72	-3.28	54	45.01	33	9.43	36.72	311	20	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 7+8	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		5104.76	48.55	-25.45	74	43.07	33.2	9.01	36.73	113	353	P	H
		5111.51	39.19	-14.81	54	33.69	33.2	9.03	36.73	113	353	A	H
	*	5260	114.67	-	-	109.24	32.88	9.27	36.72	113	353	P	H
	*	5260	107.97	-	-	102.54	32.88	9.27	36.72	113	353	A	H
		5363.4	49.15	-24.85	74	43.55	32.93	9.39	36.72	113	353	P	H
		5350	38.95	-15.05	54	33.4	32.9	9.37	36.72	113	353	A	H
		5104.76	48.01	-25.99	74	42.53	33.2	9.01	36.73	305	356	P	V
		5105.84	38.05	-15.95	54	32.56	33.2	9.02	36.73	305	356	A	V
	*	5260	113.85	-	-	108.42	32.88	9.27	36.72	305	356	P	V
	*	5260	107.3	-	-	101.87	32.88	9.27	36.72	305	356	A	V
		5362.35	49.7	-24.3	74	44.11	32.92	9.39	36.72	305	356	P	V
		5350	38.69	-15.31	54	33.14	32.9	9.37	36.72	305	356	A	V
802.11a CH 60 5300MHz		5113.28	48.31	-25.69	74	42.81	33.2	9.03	36.73	100	353	P	H
		5147.2	39.94	-14.06	54	34.37	33.2	9.1	36.73	100	353	A	H
	*	5300	115.53	-	-	110.13	32.8	9.32	36.72	100	353	P	H
	*	5300	108.41	-	-	103.01	32.8	9.32	36.72	100	353	A	H
		5350.92	52.26	-21.74	74	46.71	32.9	9.37	36.72	100	353	P	H
		5350.2	43.06	-10.94	54	37.51	32.9	9.37	36.72	100	353	A	H
		5144.32	47.88	-26.12	74	42.32	33.2	9.09	36.73	323	357	P	V
		5145.6	39.05	-14.95	54	33.49	33.2	9.09	36.73	323	357	A	V
	*	5300	115.03	-	-	109.63	32.8	9.32	36.72	323	357	P	V
	*	5300	107.95	-	-	102.55	32.8	9.32	36.72	323	357	A	V
		5350.56	53.52	-20.48	74	47.97	32.9	9.37	36.72	323	357	P	V
		5350.2	43.22	-10.78	54	37.67	32.9	9.37	36.72	323	357	A	V

802.11a CH 64 5320MHz	*	5320	114.6	-	-	109.14	32.84	9.34	36.72	215	321	P	H
	*	5320	107.87	-	-	102.41	32.84	9.34	36.72	215	321	A	H
		5350.08	64.24	-9.76	74	58.69	32.9	9.37	36.72	215	321	P	H
		5350.08	51.56	-2.44	54	46.01	32.9	9.37	36.72	215	321	A	H
													H
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	*	5320	113.87	-	-	108.41	32.84	9.34	36.72	153	10	P	V
	*	5320	106.59	-	-	101.13	32.84	9.34	36.72	153	10	A	V
		5352.96	64.68	-9.32	74	59.11	32.91	9.38	36.72	153	10	P	V
		5350.08	49.36	-4.64	54	43.81	32.9	9.37	36.72	153	10	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. 7+8	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		7013.333	58.29	-9.91	68.2	63.41	35.88	11.3	52.3	252	288	P	H
		10520	50.98	-17.22	68.2	54.04	38.84	12.97	54.87	-	-	P	H
		15780	51.9	-22.1	74	53.5	37.76	15.66	55.02	-	-	P	H
		15780	43.11	-10.89	54	44.71	37.76	15.66	55.02	-	-	A	H
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		7013.333	59.34	-8.86	68.2	64.46	35.88	11.3	52.3	315	308	P	V
		10520	50.66	-17.54	68.2	53.72	38.84	12.97	54.87	-	-	P	V
		15780	51.31	-22.69	74	52.91	37.76	15.66	55.02	-	-	P	V
		15780	42.52	-11.48	54	44.12	37.76	15.66	55.02	-	-	A	V
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WIFI Ant. 7+8	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		7068	58.44	-9.76	68.2	63.24	36.17	11.32	52.29	288	313	P	H
		10600	50.49	-23.51	74	53.23	39	13.02	54.76	-	-	P	H
		15900	50.93	-23.07	74	52.85	37.5	15.7	55.12	-	-	P	H
		15900	42.01	-11.99	54	43.93	37.5	15.7	55.12	-	-	A	H
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		7068	59.17	-9.03	68.2	63.97	36.17	11.32	52.29	253	211	P	V
		10600	51.07	-22.93	74	53.81	39	13.02	54.76	-	-	P	V
		15900	51.41	-22.59	74	53.33	37.5	15.7	55.12	-	-	P	V
		15900	42.32	-11.68	54	44.24	37.5	15.7	55.12	-	-	A	V
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WIFI Ant. 7+8	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		7093	58.65	-9.55	68.2	63.32	36.27	11.34	52.28	323	288	P	H
		10640	49.28	-24.72	74	51.9	39.04	13.04	54.7	-	-	P	H
		10640	40.6	-13.4	54	43.22	39.04	13.04	54.7	-	-	A	H
		15960	49.96	-24.04	74	51.91	37.5	15.72	55.17	-	-	P	H
		15960	41.11	-12.89	54	43.06	37.5	15.72	55.17	-	-	A	H
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													H
		7093	59.11	-9.09	68.2	63.78	36.27	11.34	52.28	223	197	P	V
		10640	50.35	-23.65	74	52.97	39.04	13.04	54.7	-	-	P	V
		10640	41.15	-12.85	54	43.77	39.04	13.04	54.7	-	-	A	V
		15960	49.91	-24.09	74	51.86	37.5	15.72	55.17	-	-	P	V
		15960	41.03	-12.97	54	42.98	37.5	15.72	55.17	-	-	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 HE20 Full (Band Edge @ 3m)

WIFI Ant. 7+8	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		5109.08	48.74	-25.26	74	43.25	33.2	9.02	36.73	244	338	P	H
		5107.73	39.44	-14.56	54	33.95	33.2	9.02	36.73	244	338	A	H
	*	5260	115.91	-	-	110.48	32.88	9.27	36.72	244	338	P	H
	*	5260	108.58	-	-	103.15	32.88	9.27	36.72	244	338	A	H
		5361.93	49.81	-24.19	74	44.22	32.92	9.39	36.72	244	338	P	H
		5351.43	39.26	-14.74	54	33.71	32.9	9.37	36.72	244	338	A	H
		5137.7	48.72	-25.28	74	43.17	33.2	9.08	36.73	322	357	P	V
		5105.57	38.49	-15.51	54	33	33.2	9.02	36.73	322	357	A	V
	*	5260	115.2	-	-	109.77	32.88	9.27	36.72	322	357	P	V
	*	5260	107.1	-	-	101.67	32.88	9.27	36.72	322	357	A	V
		5390.7	49.99	-24.01	74	44.31	32.98	9.42	36.72	322	357	P	V
		5350.17	39	-15	54	33.45	32.9	9.37	36.72	322	357	A	V
802.11ax HE20 Full CH 60 5300MHz		5138.24	49.29	-24.71	74	43.74	33.2	9.08	36.73	250	338	P	H
		5147.52	39.89	-14.11	54	34.32	33.2	9.1	36.73	250	338	A	H
	*	5300	115.48	-	-	110.08	32.8	9.32	36.72	250	338	P	H
	*	5300	108.07	-	-	102.67	32.8	9.32	36.72	250	338	A	H
		5350.2	57.7	-16.3	74	52.15	32.9	9.37	36.72	250	338	P	H
		5351.28	45.22	-8.78	54	39.67	32.9	9.37	36.72	250	338	A	H
		5145.6	48.2	-25.8	74	42.64	33.2	9.09	36.73	329	358	P	V
		5145.6	39.47	-14.53	54	33.91	33.2	9.09	36.73	329	358	A	V
	*	5300	114.59	-	-	109.19	32.8	9.32	36.72	329	358	P	V
	*	5300	107.6	-	-	102.2	32.8	9.32	36.72	329	358	A	V
		5350.2	55.98	-18.02	74	50.43	32.9	9.37	36.72	329	358	P	V
		5350.02	45.15	-8.85	54	39.6	32.9	9.37	36.72	329	358	A	V

	*	5320	114.11	-	-	108.65	32.84	9.34	36.72	209	320	P	H
	*	5320	107.11	-	-	101.65	32.84	9.34	36.72	209	320	A	H
		5350.56	66.71	-7.29	74	61.16	32.9	9.37	36.72	209	320	P	H
		5350.08	50.52	-3.48	54	44.97	32.9	9.37	36.72	209	320	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	113.82	-	-	108.36	32.84	9.34	36.72	154	18	P	V
5320MHz	*	5320	106.01	-	-	100.55	32.84	9.34	36.72	154	18	A	V
		5350.56	67.79	-6.21	74	62.24	32.9	9.37	36.72	154	18	P	V
		5350.08	51.25	-2.75	54	45.7	32.9	9.37	36.72	154	18	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. 7+8	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	58.12	-10.08	68.2	63.24	35.88	11.3	52.3	222	356	P	H
		10520	49.42	-18.78	68.2	52.48	38.84	12.97	54.87	-	-	P	H
		15780	51.97	-22.03	74	53.57	37.76	15.66	55.02	-	-	P	H
		15780	43.09	-10.91	54	44.69	37.76	15.66	55.02	-	-	A	H
													H
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													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		7013	59.43	-8.77	68.2	64.55	35.88	11.3	52.3	300	308	P	V
5260MHz		10520	50.49	-17.71	68.2	53.55	38.84	12.97	54.87	-	-	P	V
		15780	50.93	-23.07	74	52.53	37.76	15.66	55.02	-	-	P	V
		15780	42.17	-11.83	54	43.77	37.76	15.66	55.02	-	-	A	V
													V
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													V

WIFI Ant. 7+8	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 60 5300MHz		7066	58.33	-9.87	68.2	63.14	36.16	11.32	52.29	188	359	P	H
		10600	49.05	-24.95	74	51.79	39	13.02	54.76	-	-	P	H
		10600	40.47	-13.53	54	43.21	39	13.02	54.76	-	-	A	H
		15900	50.36	-23.64	74	52.28	37.5	15.7	55.12	-	-	P	H
		15900	41.52	-12.48	54	43.44	37.5	15.7	55.12	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
		7066	58.77	-9.43	68.2	63.58	36.16	11.32	52.29	303	315	P	V
		10600	50.33	-23.67	74	53.07	39	13.02	54.76	-	-	P	V
		10600	40.94	-13.06	54	43.68	39	13.02	54.76	-	-	A	V
		15900	50.12	-23.88	74	52.04	37.5	15.7	55.12	-	-	P	V
		15900	41.19	-12.81	54	43.11	37.5	15.7	55.12	-	-	A	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 2 5250~5350MHz

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

WIFI Ant. 7+8	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	113.51	-	-	108.05	32.84	9.34	36.72	320	347	P	H
	*	5320	104.92	-	-	99.46	32.84	9.34	36.72	320	347	A	H
		5350.24	68.73	-5.27	74	63.18	32.9	9.37	36.72	320	347	P	H
		5350.08	46.17	-7.83	54	40.62	32.9	9.37	36.72	320	347	A	H
													H
													H
	*	5320	113.7	-	-	108.24	32.84	9.34	36.72	324	18	P	V
	*	5320	105.96	-	-	100.5	32.84	9.34	36.72	324	18	A	V
		5350.24	71.75	-2.25	74	66.2	32.9	9.37	36.72	324	18	P	V
		5350.24	48.49	-5.51	54	42.94	32.9	9.37	36.72	324	18	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. 7+8	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		5140.48	50.71	-23.29	74	45.16	33.2	9.08	36.73	245	339	P	H
		5126.08	41.16	-12.84	54	35.63	33.2	9.06	36.73	245	339	A	H
	*	5270	112.31	-	-	106.89	32.86	9.28	36.72	245	339	P	H
	*	5270	105.29	-	-	99.87	32.86	9.28	36.72	245	339	A	H
		5350.32	57.61	-16.39	74	52.06	32.9	9.37	36.72	245	339	P	H
		5350.08	48.42	-5.58	54	42.87	32.9	9.37	36.72	245	339	A	H
		5144.64	49.7	-24.3	74	44.14	33.2	9.09	36.73	325	358	P	V
		5148.16	40.67	-13.33	54	35.1	33.2	9.1	36.73	325	358	A	V
	*	5270	111.26	-	-	105.84	32.86	9.28	36.72	325	358	P	V
	*	5270	104.09	-	-	98.67	32.86	9.28	36.72	325	358	A	V
		5351.76	59.01	-14.99	74	53.46	32.9	9.37	36.72	325	358	P	V
		5350.08	49.35	-4.65	54	43.8	32.9	9.37	36.72	325	358	A	V
802.11ax HE40 Full CH 62 5310MHz		5135.66	48.7	-25.3	74	43.16	33.2	9.07	36.73	245	62	P	H
		5148.92	38.42	-15.58	54	32.85	33.2	9.1	36.73	245	62	A	H
	*	5310	113.35	-	-	107.92	32.82	9.33	36.72	245	62	P	H
	*	5310	101.97	-	-	96.54	32.82	9.33	36.72	245	62	A	H
		5352.18	63.18	-10.82	74	57.62	32.9	9.38	36.72	245	62	P	H
		5351.1	50.23	-3.77	54	44.68	32.9	9.37	36.72	245	62	A	H
		5110.5	49	-25	74	43.5	33.2	9.03	36.73	354	11	P	V
		5146.88	37.84	-16.16	54	32.27	33.2	9.1	36.73	354	11	A	V
	*	5310	109.11	-	-	103.68	32.82	9.33	36.72	354	11	P	V
	*	5310	101.97	-	-	96.54	32.82	9.33	36.72	354	11	A	V
		5351.28	63.41	-10.59	74	57.86	32.9	9.37	36.72	354	11	P	V
		5350.02	50.67	-3.33	54	45.12	32.9	9.37	36.72	354	11	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. 7+8	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)
		7026	57.33	-10.87	68.2	62.36	35.96	11.3	52.29	-	-	P	H
		10540	48.09	-20.11	68.2	51.07	38.88	12.98	54.84	-	-	P	H
		15810	51.78	-22.22	74	53.39	37.77	15.67	55.05	-	-	P	H
		15810	42.41	-11.59	54	44.02	37.77	15.67	55.05	-	-	A	H
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													H
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802.11ax													H
HE40 Full													H
CH 54		7026	59.62	-8.58	68.2	64.65	35.96	11.3	52.29	-	-	P	V
5270MHz		10540	49	-19.2	68.2	51.98	38.88	12.98	54.84	-	-	P	V
		15810	50.79	-23.21	74	52.4	37.77	15.67	55.05	-	-	P	V
		15810	41.83	-12.17	54	43.44	37.77	15.67	55.05	-	-	A	V
													V
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													V
													V

WIFI Ant. 7+8	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 62 5310MHz		7080	57.61	-10.59	68.2	62.34	36.22	11.33	52.28	-	-	P	H
		10620	49.36	-24.64	74	52.04	39.02	13.03	54.73	-	-	P	H
		10620	40.2	-13.8	54	42.88	39.02	13.03	54.73	-	-	A	H
		15930	51.11	-22.89	74	53.04	37.5	15.71	55.14	-	-	P	H
		15930	41.99	-12.01	54	43.92	37.5	15.71	55.14	-	-	A	H
													H
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													H
													H
													H
		7080	58.39	-9.81	68.2	63.12	36.22	11.33	52.28	-	-	P	V
		10620	50.14	-23.86	74	52.82	39.02	13.03	54.73	-	-	P	V
		10620	40.44	-13.56	54	43.12	39.02	13.03	54.73	-	-	A	V
		15930	51.51	-22.49	74	53.44	37.5	15.71	55.14	-	-	P	V
		15930	42.37	-11.63	54	44.3	37.5	15.71	55.14	-	-	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. 7+8	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		5147.9	47.98	-26.02	74	42.41	33.2	9.1	36.73	313	344	P	H
		5149.94	37.23	-16.77	54	31.66	33.2	9.1	36.73	313	344	A	H
	*	5310	109.9	-	-	104.47	32.82	9.33	36.72	313	344	P	H
	*	5310	101.99	-	-	96.56	32.82	9.33	36.72	313	344	A	H
		5351.82	66.38	-7.62	74	60.83	32.9	9.37	36.72	313	344	P	H
		5352	44.15	-9.85	54	38.6	32.9	9.37	36.72	313	344	A	H
		5140.76	49.19	-24.81	74	43.64	33.2	9.08	36.73	305	19	P	V
		5148.92	36.93	-17.07	54	31.36	33.2	9.1	36.73	305	19	A	V
	*	5310	109.72	-	-	104.29	32.82	9.33	36.72	305	19	P	V
	*	5310	101.88	-	-	96.45	32.82	9.33	36.72	305	19	A	V
		5350.92	69.58	-4.42	74	64.03	32.9	9.37	36.72	305	19	P	V
		5351.82	48.67	-5.33	54	43.12	32.9	9.37	36.72	305	19	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. 7+8	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		5083.98	49.02	-24.98	74	43.58	33.2	8.97	36.73	197	45	P	H
		5149.6	38.75	-15.25	54	33.18	33.2	9.1	36.73	197	45	A	H
	*	5290	105.1	-	-	99.7	32.82	9.3	36.72	197	45	P	H
	*	5290	97.18	-	-	91.78	32.82	9.3	36.72	197	45	A	H
		5362.98	62.44	-11.56	74	56.84	32.93	9.39	36.72	197	45	P	H
		5352.2	50.83	-3.17	54	45.27	32.9	9.38	36.72	197	45	A	H
		5137.7	49.76	-24.24	74	44.21	33.2	9.08	36.73	307	6	P	V
		5148.92	39.48	-14.52	54	33.91	33.2	9.1	36.73	307	6	A	V
	*	5290	107.8	-	-	102.4	32.82	9.3	36.72	307	6	P	V
	*	5290	98.34	-	-	92.94	32.82	9.3	36.72	307	6	A	V
		5350.88	64.86	-9.14	74	59.31	32.9	9.37	36.72	307	6	P	V
		5350.22	52.64	-1.36	54	47.09	32.9	9.37	36.72	307	6	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. 7+8	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		7053	57.48	-10.72	68.2	62.34	36.11	11.32	52.29	222	353	P	H
		10580	49.12	-19.08	68.2	51.95	38.96	13	54.79	-	-	P	H
		15870	50.6	-23.4	74	52.42	37.59	15.69	55.1	-	-	P	H
		15870	41.77	-12.23	54	43.59	37.59	15.69	55.1	-	-	A	H
													H
													H
													H
													H
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													H
													H
													H
		7053	59.05	-9.15	68.2	63.91	36.11	11.32	52.29	295	312	P	V
		10580	49.15	-19.05	68.2	51.98	38.96	13	54.79	-	-	P	V
		15870	50.49	-23.51	74	52.31	37.59	15.69	55.1	-	-	P	V
		15870	41.65	-12.35	54	43.47	37.59	15.69	55.1	-	-	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 2 5250~5350MHz

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

WIFI Ant. 7+8	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		5139.06	58.46	-15.54	74	52.91	33.2	9.08	36.73	250	340	P	H
		5148.58	38.76	-15.24	54	33.19	33.2	9.1	36.73	250	340	A	H
	*	5290	108.69	-	-	103.29	32.82	9.3	36.72	250	340	P	H
	*	5290	100.04	-	-	94.64	32.82	9.3	36.72	250	340	A	H
		5381.46	72.05	-1.95	74	66.4	32.96	9.41	36.72	250	340	P	H
		5376.18	49.35	-4.65	54	43.72	32.95	9.4	36.72	250	340	A	H
		5149.6	59.46	-14.54	74	53.89	33.2	9.1	36.73	311	32	P	V
		5147.22	38.77	-15.23	54	33.2	33.2	9.1	36.73	311	32	A	V
	*	5290	107.25	-	-	101.85	32.82	9.3	36.72	311	32	P	V
	*	5290	98.59	-	-	93.19	32.82	9.3	36.72	311	32	A	V
		5384.1	72.65	-1.35	74	66.99	32.97	9.41	36.72	311	32	P	V
		5378.82	49.53	-4.47	54	43.88	32.96	9.41	36.72	311	32	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. 7+8	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		5457.95	52.41	-21.59	74	46.67	33	9.46	36.72	250	324	P	H
		5469.85	67.08	-1.12	68.2	61.34	33	9.46	36.72	250	324	P	H
		5459.99	41.78	-12.22	54	36.04	33	9.46	36.72	250	324	A	H
	*	5500	115.58	-	-	109.82	33	9.48	36.72	250	324	P	H
	*	5500	108.08	-	-	102.32	33	9.48	36.72	250	324	A	H
													H
		5459.99	54.06	-19.94	74	48.32	33	9.46	36.72	315	23	P	V
		5468.83	66.95	-1.25	68.2	61.21	33	9.46	36.72	315	23	P	V
		5459.99	42.36	-11.64	54	36.62	33	9.46	36.72	315	23	A	V
	*	5500	114.06	-	-	108.3	33	9.48	36.72	315	23	P	V
	*	5500	106.86	-	-	101.1	33	9.48	36.72	315	23	A	V
													V
802.11a CH 116 5580MHz		5426.75	49.09	-24.91	74	43.37	33	9.44	36.72	232	342	P	H
		5461	49.44	-18.76	68.2	43.7	33	9.46	36.72	232	342	P	H
		5432.56	40.73	-13.27	54	35.01	33	9.44	36.72	232	342	A	H
	*	5580	116.23	-	-	110.48	32.96	9.51	36.72	232	342	P	H
	*	5580	109.53	-	-	103.78	32.96	9.51	36.72	232	342	A	H
		5759.96	49.47	-18.73	68.2	42.55	34.04	9.59	36.71	232	342	P	H
		5459.75	49.24	-24.76	74	43.5	33	9.46	36.72	299	359	P	V
		5468.75	49	-19.2	68.2	43.26	33	9.46	36.72	299	359	P	V
		5431.36	40.45	-13.55	54	34.73	33	9.44	36.72	299	359	A	V
	*	5580	116	-	-	110.25	32.96	9.51	36.72	299	359	P	V
	*	5580	109.37	-	-	103.62	32.96	9.51	36.72	299	359	A	V
		5757.755	50.14	-18.06	68.2	43.23	34.03	9.59	36.71	299	359	P	V

802.11a CH 140 5700MHz	*	5700	112.24	-	-	105.69	33.7	9.57	36.72	251	53	P	H
	*	5700	104.83	-	-	98.28	33.7	9.57	36.72	251	53	A	H
		5725.925	60.73	-7.47	68.2	54.01	33.86	9.58	36.72	251	53	P	H
													H
													H
													H
	*	5700	114.61	-	-	108.06	33.7	9.57	36.72	348	23	P	V
	*	5700	107.29	-	-	100.74	33.7	9.57	36.72	348	23	A	V
		5726.15	64.7	-3.5	68.2	57.98	33.86	9.58	36.72	348	23	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. 7+8	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		7700	58.11	-15.89	74	62.34	36.5	11.51	52.24	289	296	P	H
		7700	48.29	-5.71	54	52.52	36.5	11.51	52.24	289	296	A	H
		11000	51.7	-22.3	74	53.77	38.9	13.23	54.2	-	-	P	H
		11000	42.47	-11.53	54	44.54	38.9	13.23	54.2	-	-	A	H
		16500	50.67	-17.53	68.2	53.21	38.1	16.06	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		7700	58.95	-15.05	74	63.18	36.5	11.51	52.24	222	305	P	V
		7700	49.06	-4.94	54	53.29	36.5	11.51	52.24	222	305	A	V
		11000	51.22	-22.78	74	53.29	38.9	13.23	54.2	-	-	P	V
		11000	42.07	-11.93	54	44.14	38.9	13.23	54.2	-	-	A	V
		16500	51.57	-16.63	68.2	54.11	38.1	16.06	56.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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		7742	59.41	-14.59	74	63.48	36.67	11.51	52.25	343	309	P	H
		7742	49.68	-4.32	54	53.75	36.67	11.51	52.25	343	309	A	H
		11160	51.27	-22.73	74	52.98	38.82	13.32	53.85	-	-	P	H
		11160	42.48	-11.52	54	44.19	38.82	13.32	53.85	-	-	A	H
		16740	51.99	-16.21	68.2	53.94	38	16.22	56.17	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		7742	58.54	-15.46	74	62.61	36.67	11.51	52.25	200	307	P	V
		7742	48.81	-5.19	54	52.88	36.67	11.51	52.25	200	307	A	V
		11160	50.59	-23.41	74	52.3	38.82	13.32	53.85	-	-	P	V
		11160	41.8	-12.2	54	43.51	38.82	13.32	53.85	-	-	A	V
		16740	53.29	-14.91	68.2	55.24	38	16.22	56.17	-	-	P	V
													V
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													V
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													V

WIFI Ant. 7+8	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		11400	48.91	-25.09	74	49.78	39	13.45	53.32	-	-	P	H
		11400	40.02	-13.98	54	40.89	39	13.45	53.32	-	-	A	H
		17100	52.23	-15.97	68.2	53.08	37.9	16.45	55.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11400	50.49	-23.51	74	51.36	39	13.45	53.32	-	-	P	V
		11400	40.7	-13.3	54	41.57	39	13.45	53.32	-	-	A	V
		17100	51.56	-16.64	68.2	52.41	37.9	16.45	55.2	-	-	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 HE20 Full (Band Edge @ 3m)

WIFI Ant. 7+8	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		5455.4	56.33	-17.67	74	50.6	33	9.45	36.72	333	338	P	H
		5469	61.96	-6.24	68.2	56.22	33	9.46	36.72	333	338	P	H
		5459.99	41.22	-12.78	54	35.48	33	9.46	36.72	333	338	A	H
	*	5500	115.76	-	-	110	33	9.48	36.72	333	338	P	H
	*	5500	107.24	-	-	101.48	33	9.48	36.72	333	338	A	H
		5459.65	63.7	-10.3	74	57.96	33	9.46	36.72	147	18	P	V
		5464.07	65.26	-2.94	68.2	59.52	33	9.46	36.72	147	18	P	V
		5459.65	43.56	-10.44	54	37.82	33	9.46	36.72	147	18	A	V
	*	5500	115.68	-	-	109.92	33	9.48	36.72	147	18	P	V
	*	5500	105.94	-	-	100.18	33	9.48	36.72	147	18	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5454.75	50.05	-23.95	74	44.32	33	9.45	36.72	218	341	P	H
		5465.25	48.67	-19.53	68.2	42.93	33	9.46	36.72	218	341	P	H
		5428	40.56	-13.44	54	34.84	33	9.44	36.72	218	341	A	H
	*	5580	116.09	-	-	110.34	32.96	9.51	36.72	218	341	P	H
	*	5580	109.03	-	-	103.28	32.96	9.51	36.72	218	341	A	H
		5740.115	49.84	-18.36	68.2	43.04	33.94	9.58	36.72	218	341	P	H
		5425.25	50.45	-23.55	74	44.73	33	9.44	36.72	314	360	P	V
		5462.25	49.25	-18.95	68.2	43.51	33	9.46	36.72	314	360	P	V
		5426.8	40.46	-13.54	54	34.74	33	9.44	36.72	314	360	A	V
	*	5580	115.84	-	-	110.09	32.96	9.51	36.72	314	360	P	V
	*	5580	108.05	-	-	102.3	32.96	9.51	36.72	314	360	A	V
		5734.445	49.3	-18.9	68.2	42.53	33.91	9.58	36.72	314	360	P	V

802.11ax HE20 Full CH 140 5700MHz	*	5700	112.73	-	-	106.18	33.7	9.57	36.72	246	50	P	H
	*	5700	104.48	-	-	97.93	33.7	9.57	36.72	246	50	A	H
		5726.075	58.71	-9.49	68.2	51.99	33.86	9.58	36.72	246	50	P	H
													H
													H
													H
	*	5700	115.02	-	-	108.47	33.7	9.57	36.72	314	19	P	V
	*	5700	107	-	-	100.45	33.7	9.57	36.72	314	19	A	V
		5725.25	61.03	-7.17	68.2	54.32	33.85	9.58	36.72	314	19	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. 7+8	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)
		7700	60.13	-13.87	74	64.36	36.5	11.51	52.24	320	292	P	H
		7700	49.8	-4.2	54	54.03	36.5	11.51	52.24	320	292	A	H
		11000	52.3	-21.7	74	54.37	38.9	13.23	54.2	-	-	P	H
		11000	43.15	-10.85	54	45.22	38.9	13.23	54.2	-	-	A	H
		16500	50.71	-17.49	68.2	53.25	38.1	16.06	56.7	-	-	P	H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		7700	60.69	-13.31	74	64.92	36.5	11.51	52.24	211	298	P	V
5500MHz		7700	49.28	-4.72	54	53.51	36.5	11.51	52.24	211	298	A	V
		11000	52.46	-21.54	74	54.53	38.9	13.23	54.2	-	-	P	V
		11000	43.6	-10.4	54	45.67	38.9	13.23	54.2	-	-	A	V
		16500	51.33	-16.87	68.2	53.87	38.1	16.06	56.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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	63.01	-5.19	68.2	66.93	36.82	11.52	52.26	215	340	P	H
		11160	50.36	-23.64	74	52.07	38.82	13.32	53.85	-	-	P	H
		11160	41.57	-12.43	54	43.28	38.82	13.32	53.85	-	-	A	H
		16740	52.04	-16.16	68.2	53.99	38	16.22	56.17	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		7812	61.92	-6.28	68.2	65.84	36.82	11.52	52.26	302	310	P	V
5580MHz		11160	50.51	-23.49	74	52.22	38.82	13.32	53.85	-	-	P	V
		11160	41.74	-12.26	54	43.45	38.82	13.32	53.85	-	-	A	V
		16740	51.95	-16.25	68.2	53.9	38	16.22	56.17	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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)
		11400	48.48	-25.52	74	49.35	39	13.45	53.32	-	-	P	H
		11400	40.99	-13.01	54	41.86	39	13.45	53.32	-	-	A	H
		17100	51.53	-16.67	68.2	52.38	37.9	16.45	55.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	49.03	-24.97	74	49.9	39	13.45	53.32	-	-	P	V
5700MHz		11400	40.36	-13.64	54	41.23	39	13.45	53.32	-	-	A	V
		17100	51	-17.2	68.2	51.85	37.9	16.45	55.2	-	-	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 HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 7+8	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		5459.99	52.99	-21.01	74	47.25	33	9.46	36.72	195	7	P	H
		5469.68	61.89	-6.31	68.2	56.15	33	9.46	36.72	195	7	P	H
		5459.99	39.37	-14.63	54	33.63	33	9.46	36.72	195	7	A	H
	*	5500	115.01	-	-	109.25	33	9.48	36.72	195	7	P	H
	*	5500	107.24	-	-	101.48	33	9.48	36.72	195	7	A	H
													H
		5446.22	54.61	-19.39	74	48.88	33	9.45	36.72	310	0	P	V
		5469	61.99	-6.21	68.2	56.25	33	9.46	36.72	310	0	P	V
		5459.99	38.56	-15.44	54	32.82	33	9.46	36.72	310	0	A	V
	*	5500	112.73	-	-	106.97	33	9.48	36.72	310	0	P	V
	*	5500	104.77	-	-	99.01	33	9.48	36.72	310	0	A	V
													V
802.11ax HE20 Partial 106/54 CH 140 5700MHz	*	5700	110.86	-	-	104.31	33.7	9.57	36.72	100	319	P	H
	*	5700	102.73	-	-	96.18	33.7	9.57	36.72	100	319	A	H
		5725.1	58.88	-9.32	68.2	52.17	33.85	9.58	36.72	100	319	P	H
													H
													H
													H
	*	5700	114.12	-	-	107.57	33.7	9.57	36.72	300	18	P	V
	*	5700	106.82	-	-	100.27	33.7	9.57	36.72	300	18	A	V
		5736.425	56.54	-11.66	68.2	49.76	33.92	9.58	36.72	300	18	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. 7+8	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		5459.44	57.53	-16.47	74	51.79	33	9.46	36.72	200	34	P	H
		5469.34	62.81	-5.39	68.2	57.07	33	9.46	36.72	200	34	P	H
		5459.98	45.66	-8.34	54	39.92	33	9.46	36.72	200	34	A	H
	*	5510	111.15	-	-	105.41	32.98	9.48	36.72	200	34	P	H
	*	5510	103.37	-	-	97.63	32.98	9.48	36.72	200	34	A	H
		5759.645	48.89	-19.31	68.2	41.97	34.04	9.59	36.71	200	34	P	H
		5459.08	61.12	-12.88	74	55.38	33	9.46	36.72	255	21	P	V
		5468.8	65.8	-2.4	68.2	60.06	33	9.46	36.72	255	21	P	V
		5459.98	46.22	-7.78	54	40.48	33	9.46	36.72	255	21	A	V
	*	5510	111.58	-	-	105.84	32.98	9.48	36.72	255	21	P	V
	*	5510	102.33	-	-	96.59	32.98	9.48	36.72	255	21	A	V
		5747.675	49.69	-18.51	68.2	42.83	33.99	9.59	36.72	255	21	P	V
802.11ax HE40 Full CH 110 5550MHz		5458.02	63.47	-10.53	74	57.73	33	9.46	36.72	208	33	P	H
		5467.7	63.5	-4.7	68.2	57.76	33	9.46	36.72	208	33	P	H
		5459.34	45.47	-8.53	54	39.73	33	9.46	36.72	208	33	A	H
	*	5550	114.63	-	-	108.95	32.9	9.5	36.72	208	33	P	H
	*	5550	105.06	-	-	99.38	32.9	9.5	36.72	208	33	A	H
		5759.96	49.81	-18.39	68.2	42.89	34.04	9.59	36.71	208	33	P	H
		5456.48	63.9	-10.1	74	58.16	33	9.46	36.72	251	20	P	V
		5466.16	64.1	-4.1	68.2	58.36	33	9.46	36.72	251	20	P	V
		5460	44.99	-9.01	54	39.25	33	9.46	36.72	251	20	A	V
	*	5550	113.32	-	-	107.64	32.9	9.5	36.72	251	20	P	V
	*	5550	104.81	-	-	99.13	32.9	9.5	36.72	251	20	A	V
		5727.515	50.99	-17.21	68.2	44.26	33.87	9.58	36.72	251	20	P	V

802.11ax HE40 Full CH 134 5670MHz		5389.2	47.95	-26.05	74	42.27	32.98	9.42	36.72	204	33	P	H
		5464.1	47.05	-21.15	68.2	41.31	33	9.46	36.72	204	33	P	H
		5459.2	39.26	-14.74	54	33.52	33	9.46	36.72	204	33	A	H
	*	5670	111.13	-	-	104.96	33.34	9.55	36.72	204	33	P	H
	*	5670	103.46	-	-	97.29	33.34	9.55	36.72	204	33	A	H
		5728.775	62.33	-5.87	68.2	55.6	33.87	9.58	36.72	204	33	P	H
		5446.25	48.09	-25.91	74	42.36	33	9.45	36.72	250	21	P	V
		5467.6	47.32	-20.88	68.2	41.58	33	9.46	36.72	250	21	P	V
		5458.85	39.55	-14.45	54	33.81	33	9.46	36.72	250	21	A	V
	*	5670	112.6	-	-	106.43	33.34	9.55	36.72	250	21	P	V
	*	5670	104.14	-	-	97.97	33.34	9.55	36.72	250	21	A	V
		5725	66.24	-1.96	68.2	59.53	33.85	9.58	36.72	250	21	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. 7+8	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)
		7707.2	57.3	-16.7	74	61.5	36.53	11.51	52.24	350	300	P	H
		7707.2	46.83	-7.17	54	51.03	36.53	11.51	52.24	350	300	A	H
		11020	51.95	-22.05	74	54.01	38.86	13.24	54.16	-	-	P	H
		11020	43.17	-10.83	54	45.23	38.86	13.24	54.16	-	-	A	H
		16530	51.97	-16.23	68.2	54.48	38.04	16.08	56.63	-	-	P	H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		7707.2	56.96	-17.04	74	61.16	36.53	11.51	52.24	200	300	P	V
5510MHz		7707.2	46.59	-7.41	54	50.79	36.53	11.51	52.24	200	300	A	V
		11020	52.46	-21.54	74	54.52	38.86	13.24	54.16	-	-	P	V
		11020	43.56	-10.44	54	45.62	38.86	13.24	54.16	-	-	A	V
		16530	51.02	-17.18	68.2	53.53	38.04	16.08	56.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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)
		7763.2	57.3	-10.9	68.2	61.31	36.73	11.51	52.25	188	330	P	H
		11100	51.32	-22.68	74	53.31	38.7	13.29	53.98	-	-	P	H
		11100	42.49	-11.51	54	44.48	38.7	13.29	53.98	-	-	A	H
		16650	52.1	-16.1	68.2	54.36	37.95	16.16	56.37	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		7763.2	56.59	-11.61	68.2	60.6	36.73	11.51	52.25	253	221	P	V
5550MHz		11100	51.1	-22.9	74	53.09	38.7	13.29	53.98	-	-	P	V
		11100	42.24	-11.76	54	44.23	38.7	13.29	53.98	-	-	A	V
		16650	51.65	-16.55	68.2	53.91	37.95	16.16	56.37	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 7+8	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	49.41	-24.59	74	50.44	39	13.42	53.45	-	-	P	H
		11340	41.81	-12.19	54	42.84	39	13.42	53.45	-	-	A	H
		17010	51.61	-16.59	68.2	53.06	37.72	16.39	55.56	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	49.21	-24.79	74	50.24	39	13.42	53.45	-	-	P	V
5670MHz		11340	41.48	-12.52	54	42.51	39	13.42	53.45	-	-	A	V
		17010	51.94	-16.26	68.2	53.39	37.72	16.39	55.56	-	-	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. 7+8	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		5459.98	56.59	-17.41	74	50.85	33	9.46	36.72	220	324	P	H
		5469.16	60.06	-8.14	68.2	54.32	33	9.46	36.72	220	324	P	H
		5459.98	38.86	-15.14	54	33.12	33	9.46	36.72	220	324	A	H
	*	5510	109.67	-	-	103.93	32.98	9.48	36.72	220	324	P	H
	*	5510	101.84	-	-	96.1	32.98	9.48	36.72	220	324	A	H
		5738.225	48.45	-19.75	68.2	41.66	33.93	9.58	36.72	220	324	P	H
		5458.36	55.19	-18.81	74	49.45	33	9.46	36.72	250	342	P	V
		5468.44	58.52	-9.68	68.2	52.78	33	9.46	36.72	250	342	P	V
		5457.82	38.08	-15.92	54	32.34	33	9.46	36.72	250	342	A	V
	*	5510	108.74	-	-	103	32.98	9.48	36.72	250	342	P	V
	*	5510	100.58	-	-	94.84	32.98	9.48	36.72	250	342	A	V
		5747.675	48.39	-19.81	68.2	41.53	33.99	9.59	36.72	250	342	P	V
802.11ax HE40 Partial 242/62 CH 134 5670MHz		5378	47.8	-26.2	74	42.16	32.96	9.4	36.72	133	360	P	H
		5461.3	45.68	-22.52	68.2	39.94	33	9.46	36.72	133	360	P	H
		5453.25	38.61	-15.39	54	32.88	33	9.45	36.72	133	360	A	H
	*	5670	112.49	-	-	106.32	33.34	9.55	36.72	133	360	P	H
	*	5670	104.98	-	-	98.81	33.34	9.55	36.72	133	360	A	H
		5726.325	66.59	-1.61	68.2	59.87	33.86	9.58	36.72	133	360	P	H
		5434.35	46.58	-27.42	74	40.85	33	9.45	36.72	281	346	P	V
		5466.55	52.06	-16.14	68.2	46.32	33	9.46	36.72	281	346	P	V
		5458.5	38.91	-15.09	54	33.17	33	9.46	36.72	281	346	A	V
	*	5670	112.08	-	-	105.91	33.34	9.55	36.72	281	346	P	V
	*	5670	105.03	-	-	98.86	33.34	9.55	36.72	281	346	A	V
		5725.625	65.07	-3.13	68.2	58.36	33.85	9.58	36.72	281	346	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. 7+8	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		5449.36	62.77	-11.23	74	57.04	33	9.45	36.72	200	46	P	H
		5468.68	62.87	-5.33	68.2	57.13	33	9.46	36.72	200	46	P	H
		5459.94	51.27	-2.73	54	45.53	33	9.46	36.72	200	46	A	H
	*	5530	108.48	-	-	102.77	32.94	9.49	36.72	200	46	P	H
	*	5530	98.55	-	-	92.84	32.94	9.49	36.72	200	46	A	H
		5734.76	50.49	-17.71	68.2	43.72	33.91	9.58	36.72	200	46	P	H
		5446.37	64.35	-9.65	74	58.62	33	9.45	36.72	300	17	P	V
		5468.91	64.75	-3.45	68.2	59.01	33	9.46	36.72	300	17	P	V
		5458.33	52.25	-1.75	54	46.51	33	9.46	36.72	300	17	A	V
	*	5530	107.39	-	-	101.68	32.94	9.49	36.72	300	17	P	V
	*	5530	98.57	-	-	92.86	32.94	9.49	36.72	300	17	A	V
		5730.35	52.33	-15.87	68.2	45.59	33.88	9.58	36.72	300	17	P	V
802.11ax HE80 Full CH 122 5610MHz		5459.8	61.35	-12.65	74	55.61	33	9.46	36.72	199	45	P	H
		5461.9	60.99	-7.21	68.2	55.25	33	9.46	36.72	199	45	P	H
		5460	45.48	-8.52	54	39.74	33	9.46	36.72	199	45	A	H
	*	5610	109.2	-	-	103.38	33.02	9.52	36.72	199	45	P	H
	*	5610	101.13	-	-	95.31	33.02	9.52	36.72	199	45	A	H
		5733.5	60.17	-8.03	68.2	53.41	33.9	9.58	36.72	199	45	P	H
		5456.5	63.81	-10.19	74	58.07	33	9.46	36.72	300	25	P	V
		5466.1	64.44	-3.76	68.2	58.7	33	9.46	36.72	300	25	P	V
		5459.8	46.4	-7.6	54	40.66	33	9.46	36.72	300	25	A	V
	*	5610	109.12	-	-	103.3	33.02	9.52	36.72	300	25	P	V
	*	5610	100.79	-	-	94.97	33.02	9.52	36.72	300	25	A	V
		5725.94	64.22	-3.98	68.2	57.5	33.86	9.58	36.72	300	25	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. 7+8	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)
		11060	52.39	-21.61	74	54.42	38.78	13.26	54.07	-	-	P	H
		11060	43.35	-10.65	54	45.38	38.78	13.26	54.07	-	-	A	H
		16590	51.37	-16.83	68.2	53.83	37.92	16.12	56.5	-	-	P	H
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													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	52.29	-21.71	74	54.32	38.78	13.26	54.07	-	-	P	V
5530MHz		11060	43.45	-10.55	54	45.48	38.78	13.26	54.07	-	-	A	V
		16590	51.77	-16.43	68.2	54.23	37.92	16.12	56.5	-	-	P	V
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WIFI Ant. 7+8	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	50.28	-23.72	74	51.73	38.92	13.35	53.72	-	-	P	H
		11220	41.78	-12.22	54	43.23	38.92	13.35	53.72	-	-	A	H
		16830	51.7	-16.5	68.2	53.46	37.94	16.27	55.97	-	-	P	H
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													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	50.1	-23.9	74	51.55	38.92	13.35	53.72	-	-	P	V
5610MHz		11220	41.46	-12.54	54	42.91	38.92	13.35	53.72	-	-	A	V
		16830	52.21	-15.99	68.2	53.97	37.94	16.27	55.97	-	-	P	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 HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 7+8	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		5436.48	60.12	-13.88	74	54.39	33	9.45	36.72	256	23	P	H
		5465.69	62.73	-5.47	68.2	56.99	33	9.46	36.72	256	23	P	H
		5459.94	39.43	-14.57	54	33.69	33	9.46	36.72	256	23	A	H
	*	5530	106.48	-	-	100.77	32.94	9.49	36.72	256	23	P	H
	*	5530	98.54	-	-	92.83	32.94	9.49	36.72	256	23	A	H
		5760.275	49.87	-18.33	68.2	42.95	34.04	9.59	36.71	256	23	P	H
		5459.02	62.27	-11.73	74	56.53	33	9.46	36.72	299	17	P	V
		5468.22	64.44	-3.76	68.2	58.7	33	9.46	36.72	299	17	P	V
		5459.02	41.18	-12.82	54	35.44	33	9.46	36.72	299	17	A	V
	*	5530	106.4	-	-	100.69	32.94	9.49	36.72	299	17	P	V
	*	5530	98.72	-	-	93.01	32.94	9.49	36.72	299	17	A	V
		5759.96	55.37	-12.83	68.2	48.45	34.04	9.59	36.71	299	17	P	V
802.11ax HE80 Partial 484/66 CH 122 5610MHz		5460.1	60.96	-7.24	68.2	55.22	33	9.46	36.72	258	51	P	H
		5465.5	63.27	-4.93	68.2	57.53	33	9.46	36.72	258	51	P	H
		5460	39.67	-14.33	54	33.93	33	9.46	36.72	258	51	A	H
	*	5610	108.61	-	-	102.79	33.02	9.52	36.72	258	51	P	H
	*	5610	99.87	-	-	94.05	33.02	9.52	36.72	258	51	A	H
		5727.83	61.59	-6.61	68.2	54.86	33.87	9.58	36.72	258	51	P	H
		5458.6	65.82	-8.18	74	60.08	33	9.46	36.72	302	19	P	V
		5464	66.4	-1.8	68.2	60.66	33	9.46	36.72	302	19	P	V
		5458.9	41.88	-12.12	54	36.14	33	9.46	36.72	302	19	A	V
	*	5610	110.88	-	-	105.06	33.02	9.52	36.72	302	19	P	V
	*	5610	102.18	-	-	96.36	33.02	9.52	36.72	302	19	A	V
		5725	66.96	-1.24	68.2	60.25	33.85	9.58	36.72	302	19	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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

WIFI Ant. 7+8	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		5435.87	61.47	-12.53	74	55.74	33	9.45	36.72	293	344	P	H
		5466.25	61.87	-6.33	68.2	56.13	33	9.46	36.72	293	344	P	H
		5451.99	50.42	-3.58	54	44.69	33	9.45	36.72	293	344	A	H
	*	5570	105.64	-	-	99.91	32.94	9.51	36.72	293	344	P	H
	*	5570	95.8	-	-	90.07	32.94	9.51	36.72	293	344	A	H
		5727.2	59.87	-8.33	68.2	53.15	33.86	9.58	36.72	293	344	P	H
		5438.04	62.87	-11.13	74	57.14	33	9.45	36.72	307	17	P	V
		5467.49	62.56	-5.64	68.2	56.82	33	9.46	36.72	307	17	P	V
		5457.57	51.51	-2.49	54	45.77	33	9.46	36.72	307	17	A	V
	*	5570	104.53	-	-	98.8	32.94	9.51	36.72	307	17	P	V
	*	5570	95.55	-	-	89.82	32.94	9.51	36.72	307	17	A	V
		5727.515	62.5	-5.7	68.2	55.77	33.87	9.58	36.72	307	17	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. 7+8	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)
		11140	50.04	-23.96	74	51.84	38.78	13.31	53.89	-	-	P	H
		11140	41.26	-12.74	54	43.06	38.78	13.31	53.89	-	-	A	H
		16710	51.48	-16.72	68.2	53.53	38	16.19	56.24	-	-	P	H
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802.11ax													H
HE160 Full													H
CH 114		11140	50.48	-23.52	74	52.28	38.78	13.31	53.89	-	-	P	V
5570MHz		11140	41.6	-12.4	54	43.4	38.78	13.31	53.89	-	-	A	V
		16710	51.49	-16.71	68.2	53.54	38	16.19	56.24	-	-	P	V
													V
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													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 3 5470~5725MHz

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

WIFI Ant. 7+8	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		5445.48	67.95	-6.05	74	62.22	33	9.45	36.72	235	39	P	H
		5461.29	65.25	-2.95	68.2	59.51	33	9.46	36.72	235	39	P	H
		5445.48	46.83	-7.17	54	41.1	33	9.45	36.72	235	39	A	H
	*	5570	104.12	-	-	98.39	32.94	9.51	36.72	235	39	P	H
	*	5570	95.9	-	-	90.17	32.94	9.51	36.72	235	39	A	H
		5728.145	62.43	-5.77	68.2	55.7	33.87	9.58	36.72	235	39	P	H
		5438.97	66.38	-7.62	74	60.65	33	9.45	36.72	311	22	P	V
		5460.05	64	-4.2	68.2	58.26	33	9.46	36.72	311	22	P	V
		5458.81	45.2	-8.8	54	39.46	33	9.46	36.72	311	22	A	V
	*	5570	103.03	-	-	97.3	32.94	9.51	36.72	311	22	P	V
	*	5570	94.7	-	-	88.97	32.94	9.51	36.72	311	22	A	V
		5725.94	65.55	-2.65	68.2	58.83	33.86	9.58	36.72	311	22	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 7+8	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		5415.36	47.26	-26.74	74	41.54	33	9.44	36.72	226	347	P	H
		5470	47.45	-20.75	68.2	41.71	33	9.46	36.72	226	347	P	H
		5416.5	38.78	-15.22	54	33.06	33	9.44	36.72	226	347	A	H
	*	5720	115.13	-	-	108.46	33.82	9.57	36.72	226	347	P	H
	*	5720	108.67	-	-	102	33.82	9.57	36.72	226	347	A	H
		5869.92	49.97	-18.23	68.2	42.74	34.24	9.7	36.71	226	347	P	H
		5384.2	47.77	-26.23	74	42.11	32.97	9.41	36.72	313	360	P	V
		5469.7	46.4	-21.8	68.2	40.66	33	9.46	36.72	313	360	P	V
		5420.3	38.82	-15.18	54	33.1	33	9.44	36.72	313	360	A	V
	*	5720	115.78	-	-	109.11	33.82	9.57	36.72	313	360	P	V
	*	5720	109.78	-	-	103.11	33.82	9.57	36.72	313	360	A	V
		5859.78	50.43	-17.77	68.2	43.23	34.22	9.69	36.71	313	360	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. 7+8	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		8009.6	54.78	-13.42	68.2	58.35	37.1	11.63	52.3	304	319	P	H
		11440	52.49	-21.51	74	53.24	39	13.48	53.23	-	-	P	H
		11440	39.8	-14.2	54	40.55	39	13.48	53.23	-	-	A	H
		17160	50.54	-17.66	68.2	51.06	37.96	16.48	54.96	-	-	P	H
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													H
													H
		8009.6	55.67	-12.53	68.2	59.24	37.1	11.63	52.3	198	299	P	V
		11440	52.12	-21.88	74	52.87	39	13.48	53.23	-	-	P	V
		11440	39.16	-14.84	54	39.91	39	13.48	53.23	-	-	A	V
		17160	50.36	-17.84	68.2	50.88	37.96	16.48	54.96	-	-	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 - Straddle Channel

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

WIFI Ant. 7+8	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		5384.2	48.23	-25.77	74	42.57	32.97	9.41	36.72	219	355	P	H
		5461.34	47.12	-21.08	68.2	41.38	33	9.46	36.72	219	355	P	H
		5421.06	38.57	-15.43	54	32.85	33	9.44	36.72	219	355	A	H
	*	5720	115.92	-	-	109.25	33.82	9.57	36.72	219	355	P	H
	*	5720	108.26	-	-	101.59	33.82	9.57	36.72	219	355	A	H
		5911.52	51.21	-16.99	68.2	43.91	34.25	9.76	36.71	219	355	P	H
		5386.48	47.09	-26.91	74	41.43	32.97	9.41	36.72	300	359	P	V
		5467.42	47.66	-20.54	68.2	41.92	33	9.46	36.72	300	359	P	V
		5407.38	38.91	-15.09	54	33.2	33	9.43	36.72	300	359	A	V
	*	5720	116.44	-	-	109.77	33.82	9.57	36.72	300	359	P	V
	*	5720	109.92	-	-	103.25	33.82	9.57	36.72	300	359	A	V
		5876.16	50.53	-17.67	68.2	43.28	34.25	9.71	36.71	300	359	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. 7+8	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)
		8009.6	56.46	-11.74	68.2	60.03	37.1	11.63	52.3	302	321	P	H
		11440	51.04	-22.96	74	51.79	39	13.48	53.23	-	-	P	H
		11440	38.73	-15.27	54	39.48	39	13.48	53.23	-	-	A	H
		17160	51.62	-16.58	68.2	52.14	37.96	16.48	54.96	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		8009.6	55.75	-12.45	68.2	59.32	37.1	11.63	52.3	202	311	P	V
5720MHz		11440	51.59	-22.41	74	52.34	39	13.48	53.23	-	-	P	V
		11440	39.14	-14.86	54	39.89	39	13.48	53.23	-	-	A	V
		17160	52.2	-16	68.2	52.72	37.96	16.48	54.96	-	-	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 - Straddle Channel

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

WIFI Ant. 7+8	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		5453.35	47.72	-26.28	74	41.99	33	9.45	36.72	199	34	P	H
		5462.32	47.73	-20.47	68.2	41.99	33	9.46	36.72	199	34	P	H
		5403.82	38.55	-15.45	54	32.84	33	9.43	36.72	199	34	A	H
	*	5710	112.77	-	-	106.16	33.76	9.57	36.72	199	34	P	H
	*	5710	105.15	-	-	98.54	33.76	9.57	36.72	199	34	A	H
		5861.75	50.41	-17.79	68.2	43.21	34.22	9.69	36.71	199	34	P	H
		5424.88	48.18	-25.82	74	42.46	33	9.44	36.72	252	9	P	V
		5465.44	46.92	-21.28	68.2	41.18	33	9.46	36.72	252	9	P	V
		5454.52	38.88	-15.12	54	33.15	33	9.45	36.72	252	9	A	V
	*	5710	114.08	-	-	107.47	33.76	9.57	36.72	252	9	P	V
	*	5710	107.25	-	-	100.64	33.76	9.57	36.72	252	9	A	V
		5888	51.21	-16.99	68.2	43.91	34.28	9.73	36.71	252	9	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. 7+8	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		11420	48.52	-25.48	74	49.33	39	13.47	53.28	-	-	P	H
		11420	39.3	-14.7	54	40.11	39	13.47	53.28	-	-	A	H
		17130	51.43	-16.77	68.2	52.11	37.93	16.47	55.08	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11420	49.23	-24.77	74	50.04	39	13.47	53.28	-	-	P	V
		11420	40.35	-13.65	54	41.16	39	13.47	53.28	-	-	A	V
		17130	51.18	-17.02	68.2	51.86	37.93	16.47	55.08	-	-	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. 7+8	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		5459.59	60.23	-13.77	74	54.49	33	9.46	36.72	200	46	P	H
		5465.44	60.81	-7.39	68.2	55.07	33	9.46	36.72	200	46	P	H
		5459.98	47.74	-6.26	54	42	33	9.46	36.72	200	46	A	H
	*	5690	109.47	-	-	103.05	33.58	9.56	36.72	200	46	P	H
	*	5690	100.39	-	-	93.97	33.58	9.56	36.72	200	46	A	H
		5851.9	55.87	-12.33	68.2	48.7	34.2	9.68	36.71	200	46	P	H
		5459.98	63.69	-10.31	74	57.95	33	9.46	36.72	300	18	P	V
		5464.66	65.76	-2.44	68.2	60.02	33	9.46	36.72	300	18	P	V
		5459.98	51.01	-2.99	54	45.27	33	9.46	36.72	300	18	A	V
	*	5690	110.66	-	-	104.24	33.58	9.56	36.72	300	18	P	V
	*	5690	102.57	-	-	96.15	33.58	9.56	36.72	300	18	A	V
		5859.4	66.05	-2.15	68.2	58.85	34.22	9.69	36.71	300	18	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. 7+8	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		11380	48.58	-25.42	74	49.5	39	13.44	53.36	-	-	P	H
		11380	39.39	-14.61	54	40.31	39	13.44	53.36	-	-	A	H
		17070	51.72	-16.48	68.2	52.77	37.84	16.43	55.32	-	-	P	H
													H
													H
													H
													H
													H
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													H
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													H
		11380	49.77	-24.23	74	50.69	39	13.44	53.36	-	-	P	V
		11380	40.57	-13.43	54	41.49	39	13.44	53.36	-	-	A	V
		17070	52.52	-15.68	68.2	53.57	37.84	16.43	55.32	-	-	P	V
													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.												

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI Ant. 7+8	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 LF		33.88	26.46	-13.54	40	35.37	22.75	0.75	32.41	-	-	P	H
		188.11	24.47	-19.03	43.5	40.28	14.8	1.78	32.39	-	-	P	H
		407.33	23.53	-22.47	46	31.29	22.25	2.38	32.39	-	-	P	H
		570.29	28.13	-17.87	46	31.68	25.97	2.92	32.44	-	-	P	H
		737.13	32.87	-13.13	46	34.12	27.71	3.29	32.25	-	-	P	H
		955.38	35	-11	46	31.17	30.96	3.84	30.97	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.97	23.88	-16.12	40	31.36	24.24	0.67	32.39	-	-	P	V
		131.85	18.93	-24.57	43.5	32.52	17.46	1.37	32.42	-	-	P	V
		402.48	24.92	-21.08	46	32.87	22.07	2.37	32.39	-	-	P	V
		588.72	28.83	-17.17	46	32.63	25.66	2.97	32.43	-	-	P	V
		720.64	34.81	-11.19	46	36.84	27.02	3.23	32.28	-	-	P	V
		893.3	39.28	-6.72	46	38.2	28.91	3.68	31.51	-	-	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.

<Sample 1 with Battery 2>

Band 3 - 5470~5725MHz

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.
7+8		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5459.65	52.56	-21.44	74	46.82	33	9.46	36.72	150	355	P	H
		5469.85	66.13	-2.07	68.2	60.39	33	9.46	36.72	150	355	P	H
		5459.99	40.66	-13.34	54	34.92	33	9.46	36.72	150	355	A	H
	*	5500	114.96	-	-	109.2	33	9.48	36.72	150	355	P	H
	*	5500	107.95	-	-	102.19	33	9.48	36.72	150	355	A	H
													H
		5459.65	52.4	-21.6	74	46.66	33	9.46	36.72	302	25	P	V
		5469.85	65.63	-2.57	68.2	59.89	33	9.46	36.72	302	25	P	V
		5459.99	40.58	-13.42	54	34.84	33	9.46	36.72	302	25	A	V
	*	5500	113.55	-	-	107.79	33	9.48	36.72	302	25	P	V
	*	5500	106.38	-	-	100.62	33	9.48	36.72	302	25	A	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 HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+8	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		7700	58.65	-15.35	74	62.88	36.5	11.51	52.24	347	326	P	H
		7700	48.76	-5.24	54	52.99	36.5	11.51	52.24	347	326	A	H
		11000	52.47	-21.53	74	54.54	38.9	13.23	54.2	-	-	P	H
		11000	43.21	-10.79	54	45.28	38.9	13.23	54.2	-	-	A	H
		16500	51.07	-17.13	68.2	53.61	38.1	16.06	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		7696	58.59	-15.41	74	62.84	36.48	11.51	52.24	195	304	P	V
		7696	49.07	-4.93	54	53.32	36.48	11.51	52.24	195	304	A	V
		11000	52.65	-21.35	74	54.72	38.9	13.23	54.2	-	-	P	V
		11000	43.49	-10.51	54	45.56	38.9	13.23	54.2	-	-	A	V
		16500	51.16	-17.04	68.2	53.7	38.1	16.06	56.7	-	-	P	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.												

<Sample 1 with Battery 3>

Band 3 - 5470~5725MHz

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.
7+8		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5459.99	52.35	-21.65	74	46.61	33	9.46	36.72	141	355	P	H
		5470	65.93	-2.27	68.2	60.19	33	9.46	36.72	141	355	P	H
		5459.99	40.51	-13.49	54	34.77	33	9.46	36.72	141	355	A	H
	*	5500	114.74	-	-	108.98	33	9.48	36.72	141	355	P	H
	*	5500	107.75	-	-	101.99	33	9.48	36.72	141	355	A	H
													H
		5459.48	52.01	-21.99	74	46.27	33	9.46	36.72	314	15	P	V
		5470	65.7	-2.5	68.2	59.96	33	9.46	36.72	314	15	P	V
		5459.99	40.61	-13.39	54	34.87	33	9.46	36.72	314	15	A	V
	*	5500	113.83	-	-	108.07	33	9.48	36.72	314	15	P	V
	*	5500	106.89	-	-	101.13	33	9.48	36.72	314	15	A	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. 7+8	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		7700	59.01	-14.99	74	63.24	36.5	11.51	52.24	344	326	P	H
		7700	49.37	-4.63	54	53.6	36.5	11.51	52.24	344	326	A	H
		11000	52.36	-21.64	74	54.43	38.9	13.23	54.2	-	-	P	H
		11000	43.2	-10.8	54	45.27	38.9	13.23	54.2	-	-	A	H
		16500	51.15	-17.05	68.2	53.69	38.1	16.06	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		7700	59.62	-14.38	74	63.85	36.5	11.51	52.24	197	304	P	V
		7700	50.15	-3.85	54	54.38	36.5	11.51	52.24	197	304	A	V
		11000	52.28	-21.72	74	54.35	38.9	13.23	54.2	-	-	P	V
		11000	42.99	-11.01	54	45.06	38.9	13.23	54.2	-	-	A	V
		16500	51.83	-16.37	68.2	54.37	38.1	16.06	56.7	-	-	P	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.												

<Sample 2 with Battery 1>

Band 3 - 5470~5725MHz

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.
7+8		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5459.14	51.69	-22.31	74	45.81	33	9.46	36.58	197	51	P	H
		5470	64.48	-3.72	68.2	58.6	33	9.46	36.58	197	51	P	H
		5459.99	41.45	-12.55	54	35.57	33	9.46	36.58	197	51	A	H
	*	5500	116.52	-	-	110.62	33	9.48	36.58	197	51	P	H
	*	5500	109.07	-	-	103.17	33	9.48	36.58	197	51	A	H
													H
		5459.65	52.08	-21.92	74	46.2	33	9.46	36.58	247	346	P	V
		5469.85	65.98	-2.22	68.2	60.1	33	9.46	36.58	247	346	P	V
		5459.82	40.7	-13.3	54	34.82	33	9.46	36.58	247	346	A	V
	*	5500	114.08	-	-	108.18	33	9.48	36.58	247	346	P	V
	*	5500	107.35	-	-	101.45	33	9.48	36.58	247	346	A	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. 7+8	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		6600	53.41	-14.79	68.2	58.98	35.6	10.73	51.9	300	207	P	H
		6600	45.83	-8.17	54	51.4	35.6	10.73	51.9	300	207	A	H
		11000	54.49	-19.51	74	55.61	38.9	14.18	54.2	-	-	P	H
		11000	42.55	-11.45	54	43.67	38.9	14.18	54.2	-	-	A	H
		16500	49.96	-18.24	68.2	51.88	38.1	16.68	56.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		6600	52.56	-15.64	68.2	58.13	35.6	10.73	51.9	300	318	P	V
		6600	44.34	-9.66	54	49.91	35.6	10.73	51.9	300	318	A	V
		11000	55.1	-18.9	74	56.22	38.9	14.18	54.2	-	-	P	V
		11000	43.48	-10.52	54	44.6	38.9	14.18	54.2	-	-	A	V
		16500	51.54	-16.66	68.2	53.46	38.1	16.68	56.7	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin** 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.	
7+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Margin(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. 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 :	Eric Shou, Quentin Liu and Bigshow Wang	**Temperature :**	21~26°C
		Relative Humidity :	45~60%

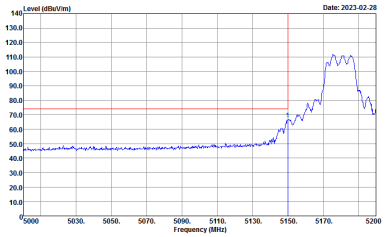
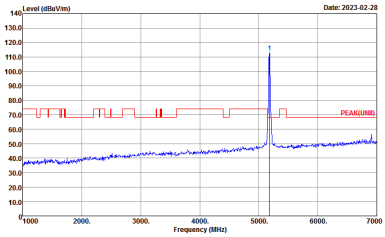
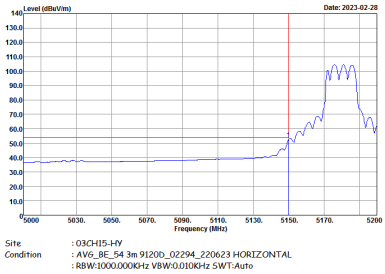
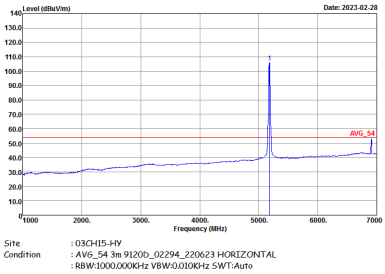
Note symbol

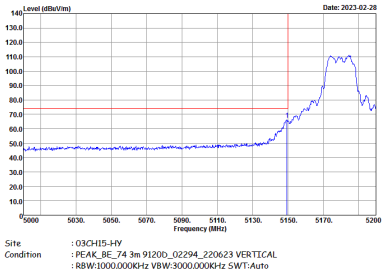
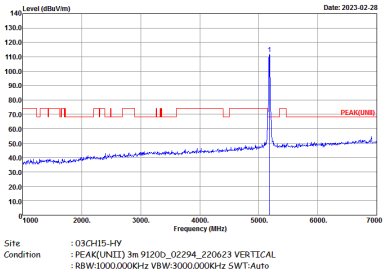
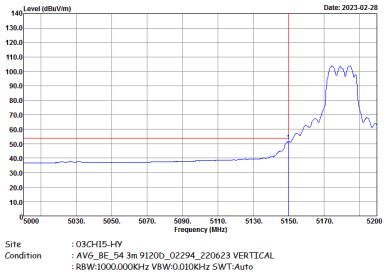
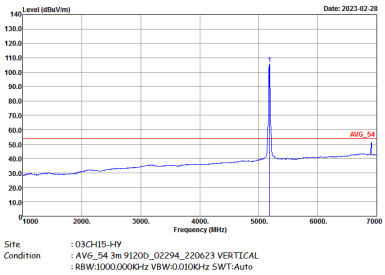
-L	**Low channel location**
-R	**High channel location**

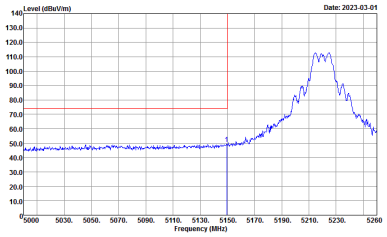
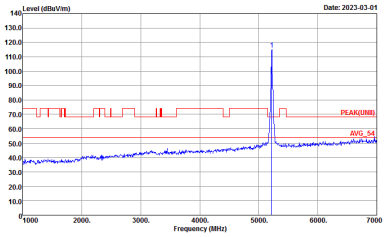
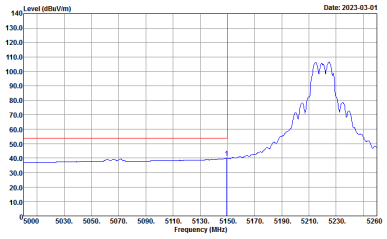
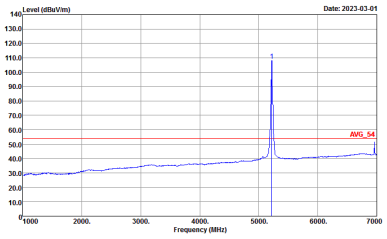
<Sample 1 with Battery 1>

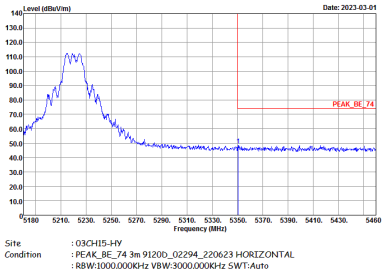
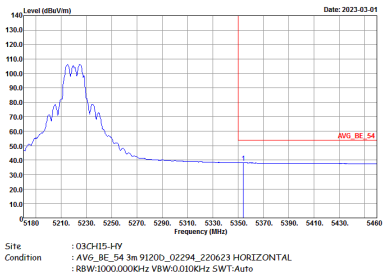
Band 1 - 5150~5250MHz

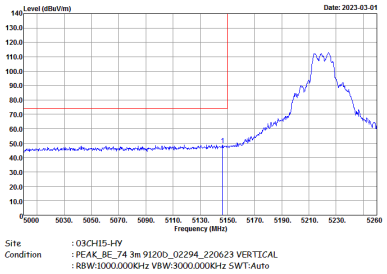
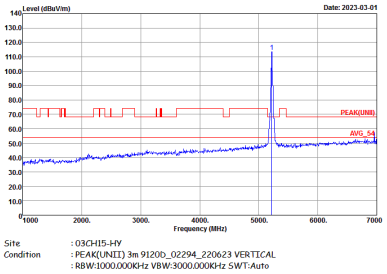
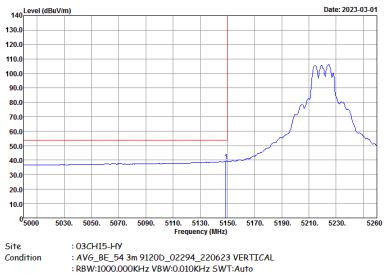
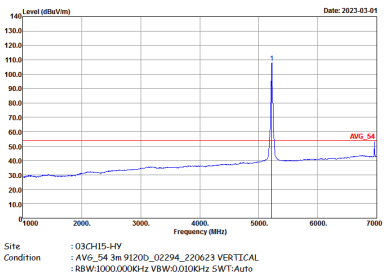
WIFI 802.11a (Band Edge @ 3m)

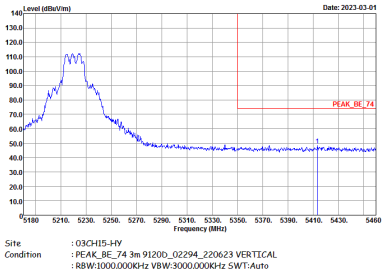
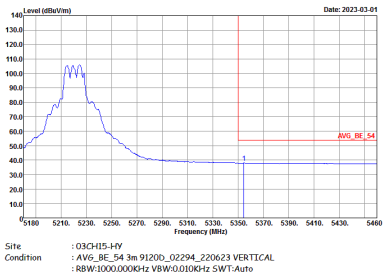
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
7+8	Horizontal	Fundamental
Peak		
Avg.		

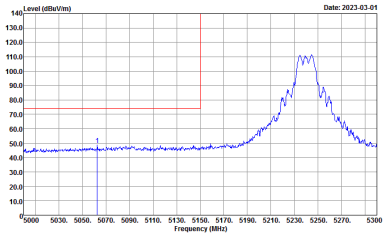
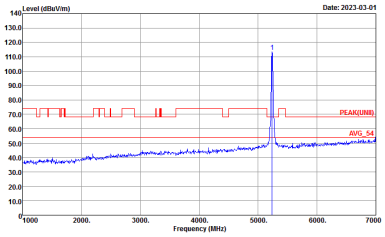
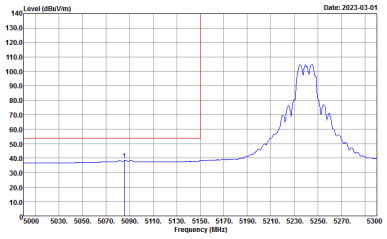
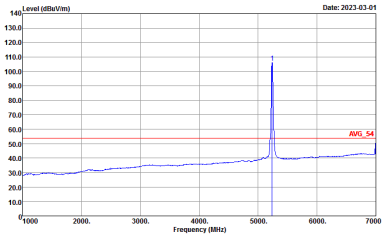
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
7+8	Vertical	Fundamental
Peak		
Avg.		

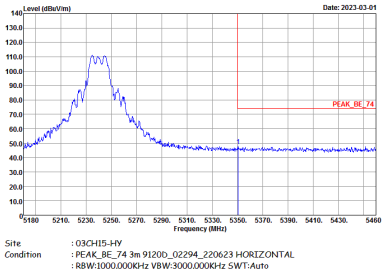
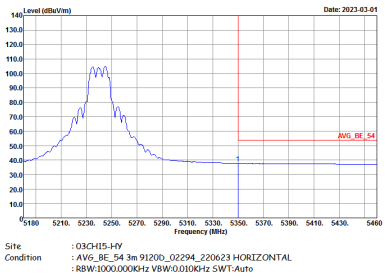
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

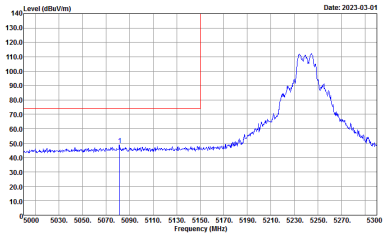
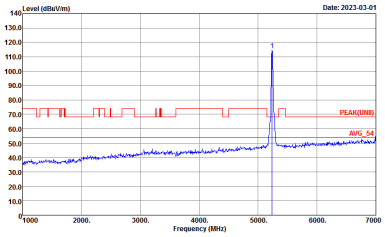
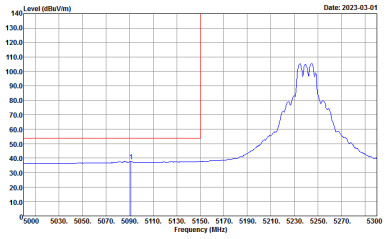
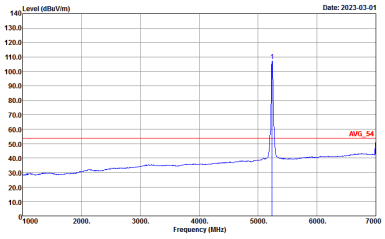
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

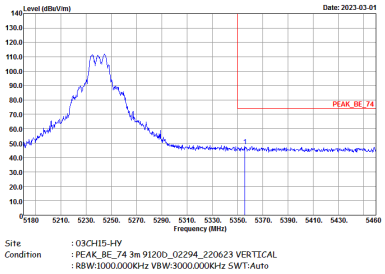
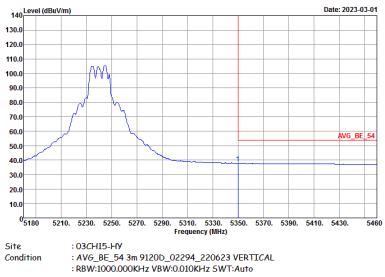
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

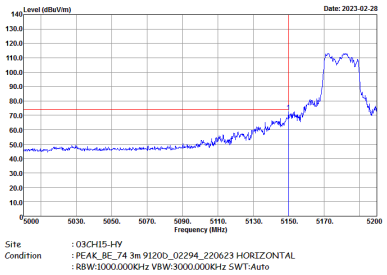
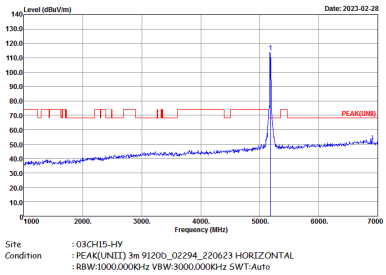
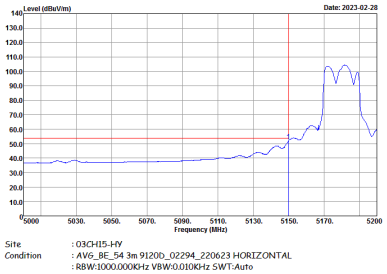
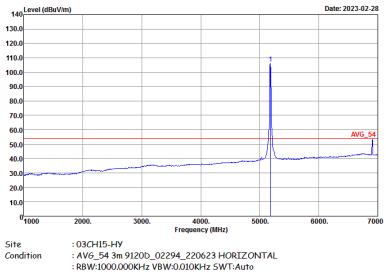
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

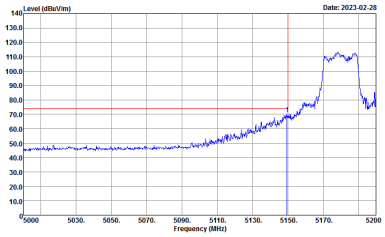
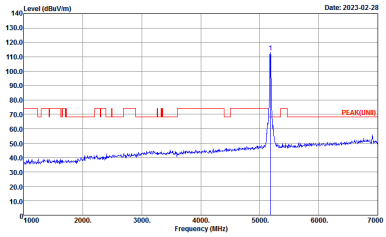
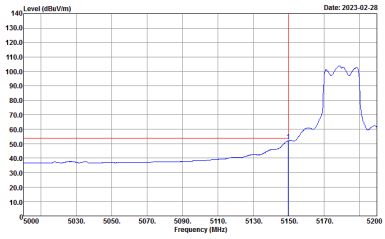
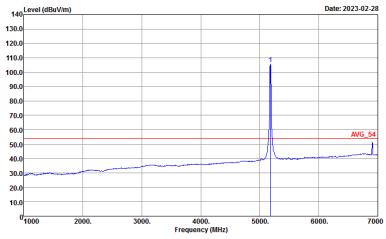
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
7+8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

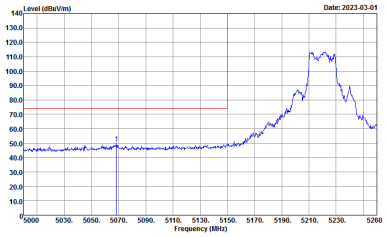
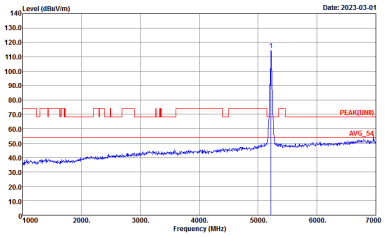
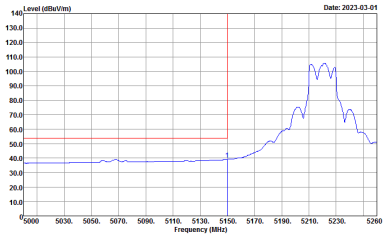
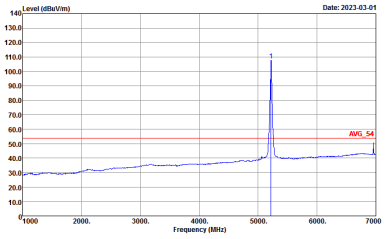
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

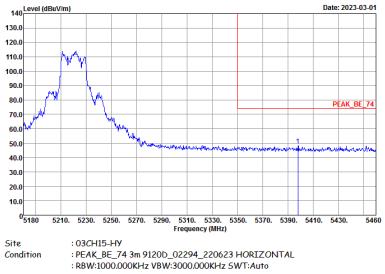
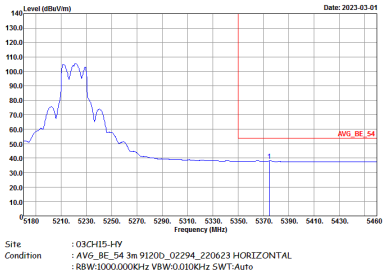
Band 1 5150~5250MHz

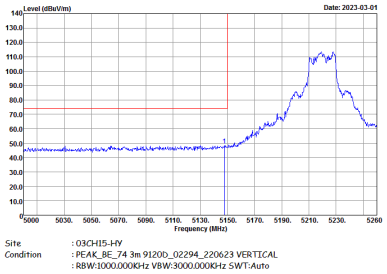
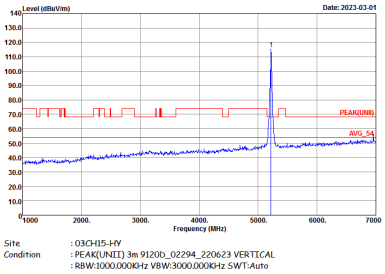
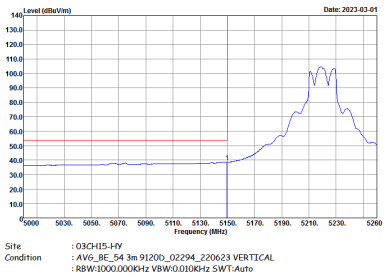
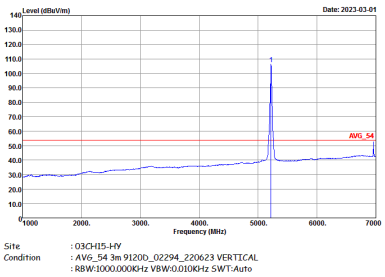
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

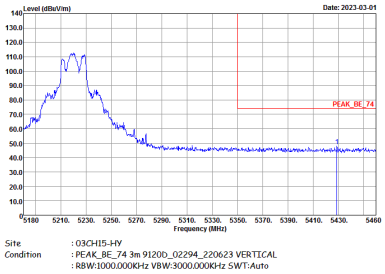
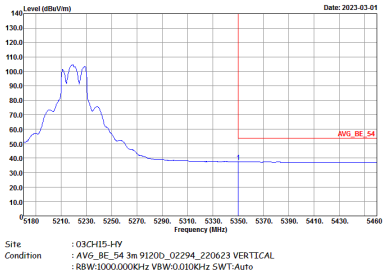
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
7+8	Horizontal	Fundamental
Peak		
Avg.		

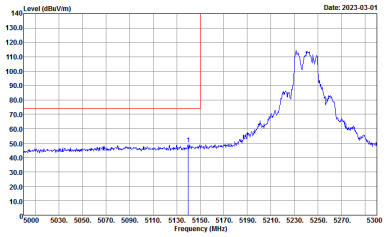
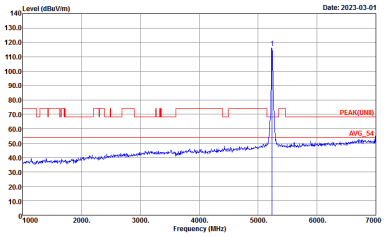
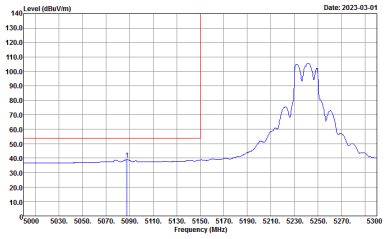
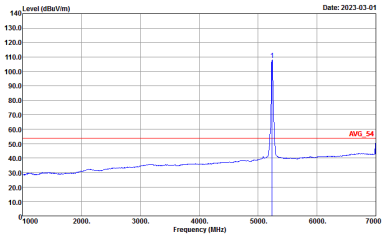
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
7+8	Vertical	Fundamental
Peak		
Avg.		

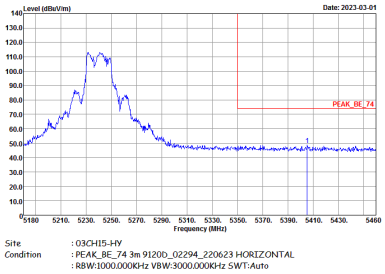
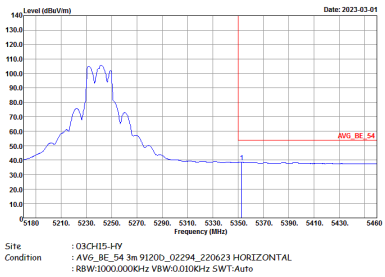
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

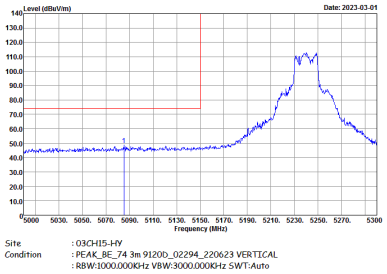
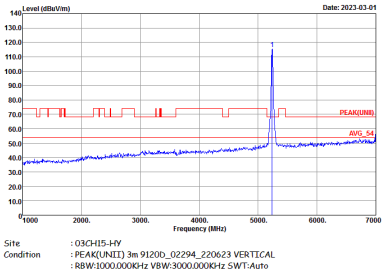
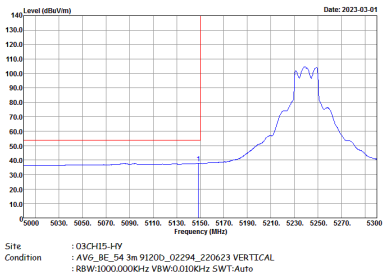
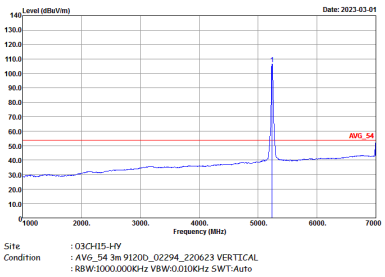
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

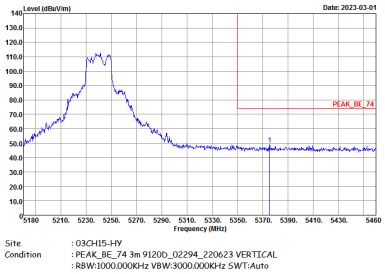
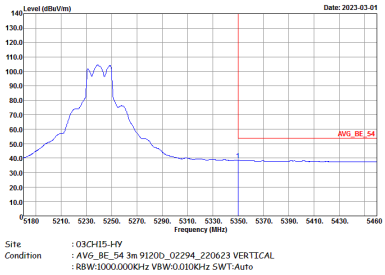
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

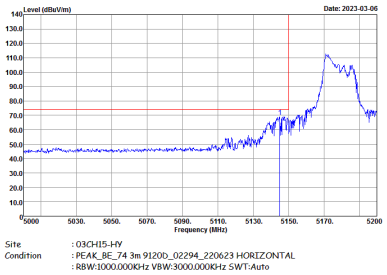
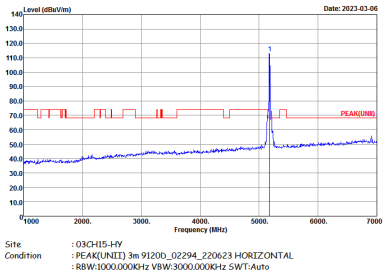
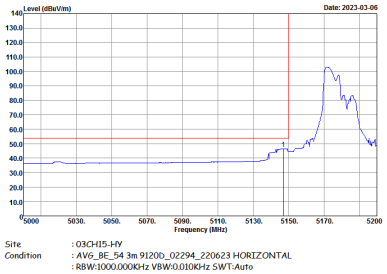
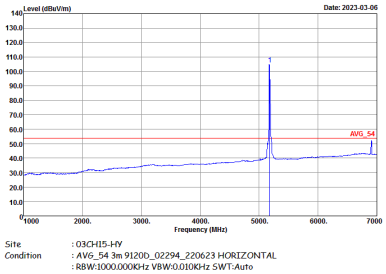
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

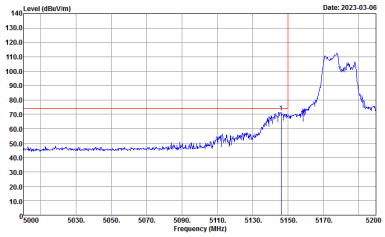
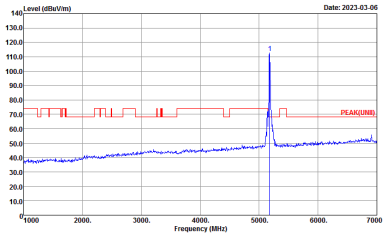
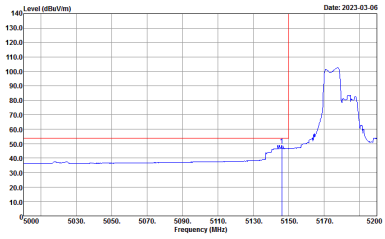
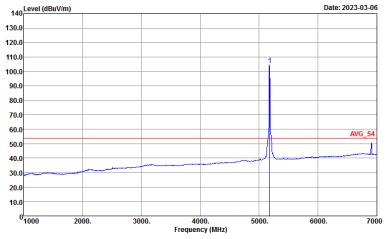
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz

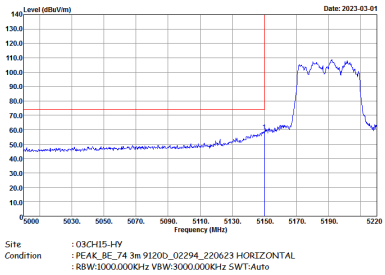
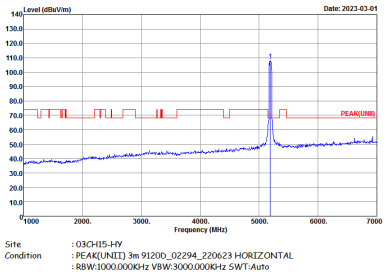
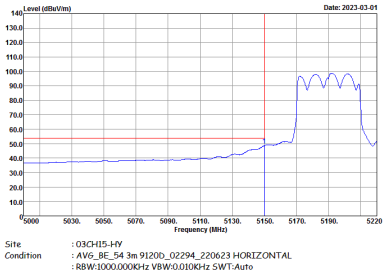
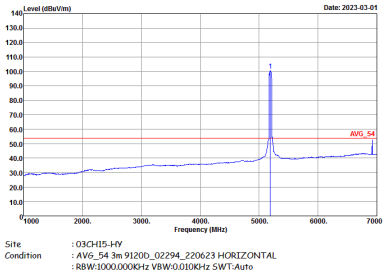
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

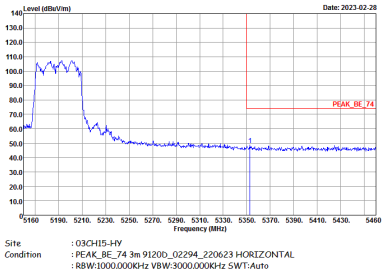
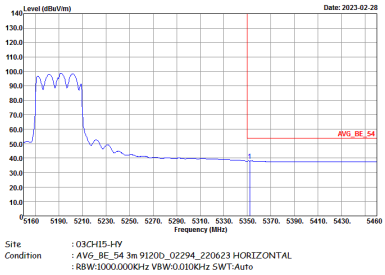
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
7+8	Horizontal	Fundamental
Peak		
Avg.		

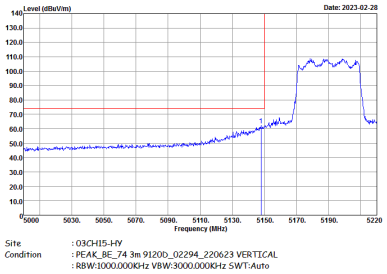
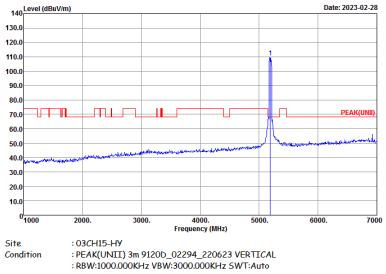
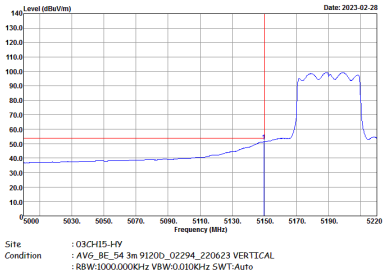
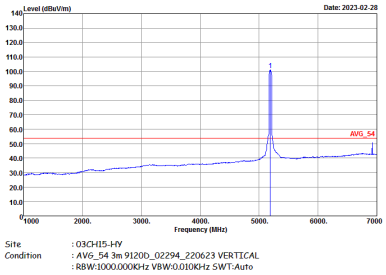
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
7+8	Vertical	Fundamental
Peak		
Avg.		

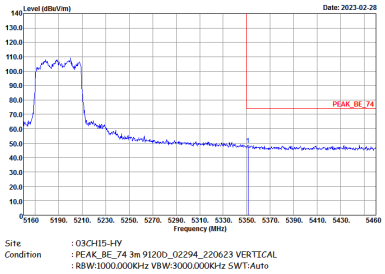
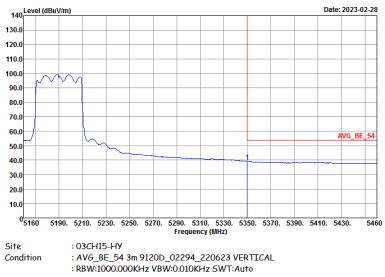
Band 1 5150~5250MHz

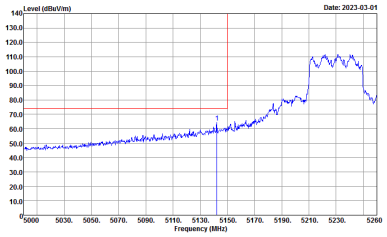
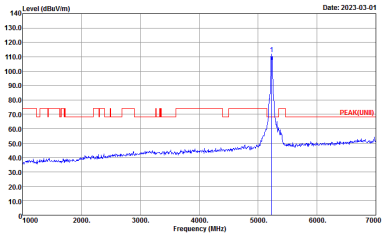
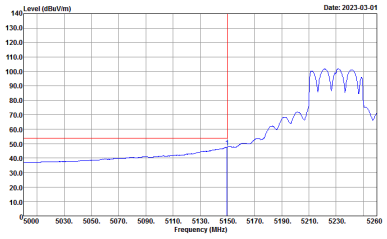
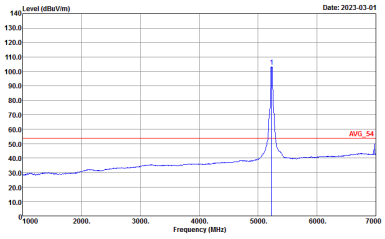
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

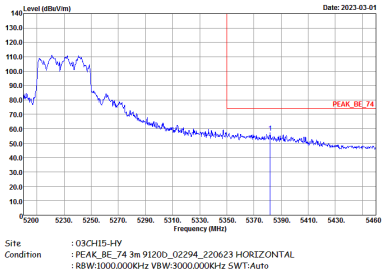
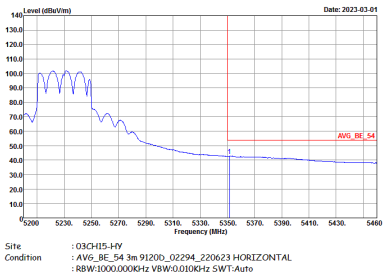
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
7+8	Horizontal	Fundamental
Peak		
Avg.		

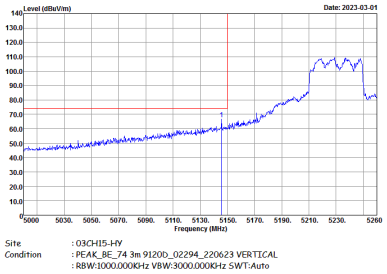
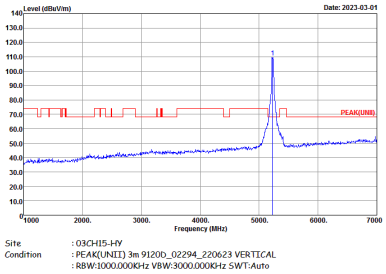
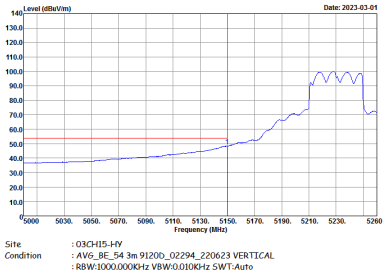
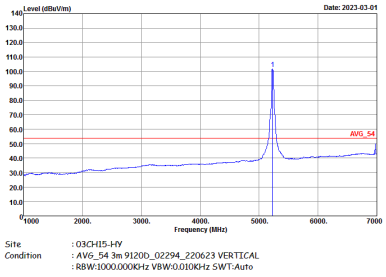
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

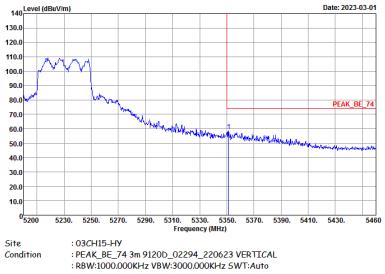
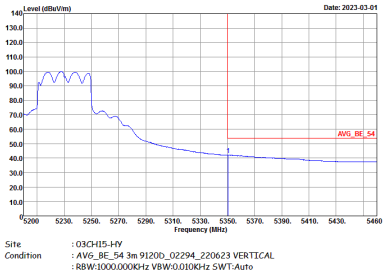
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

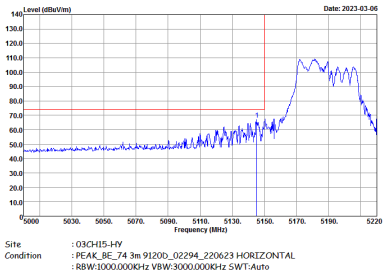
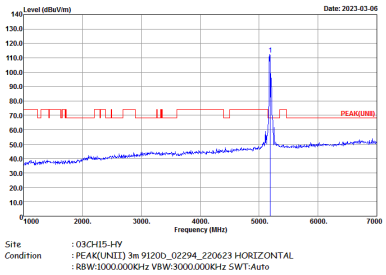
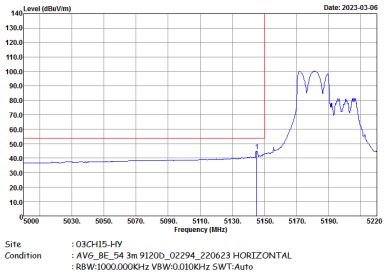
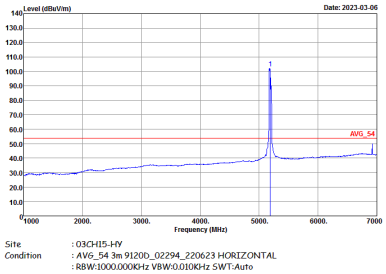
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

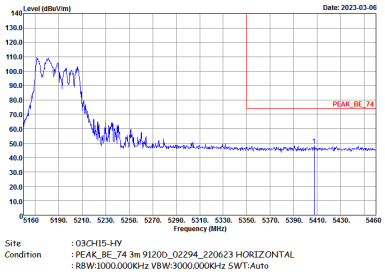
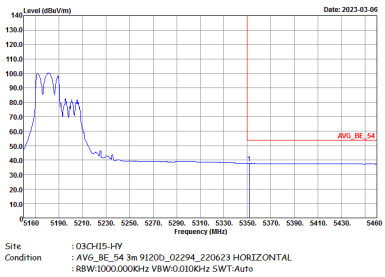
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

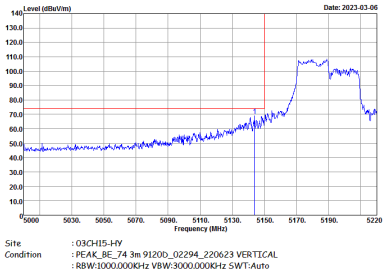
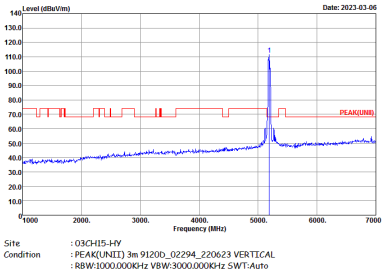
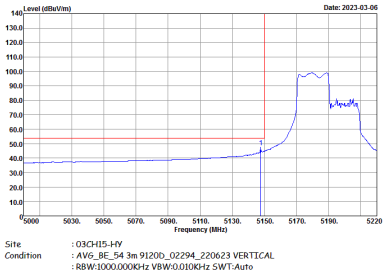
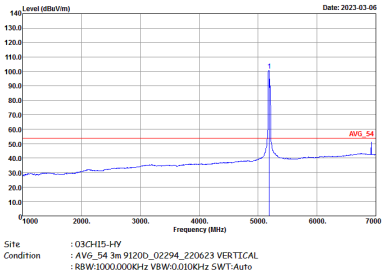
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

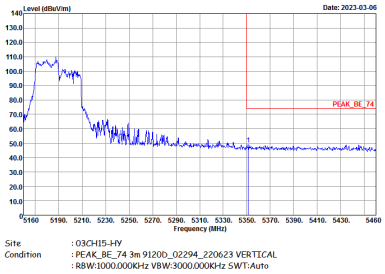
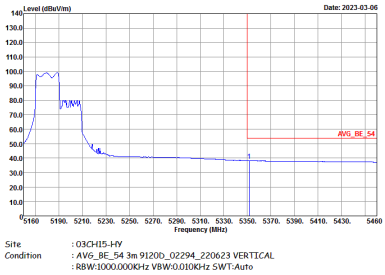
Band 1 5150~5250MHz

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	
7+8	Horizontal	Fundamental
Peak		
Avg.		

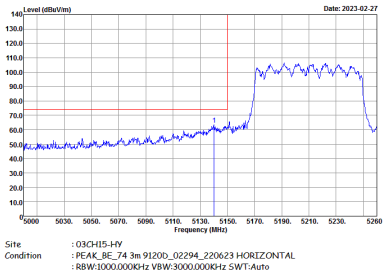
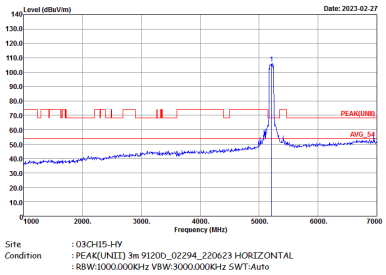
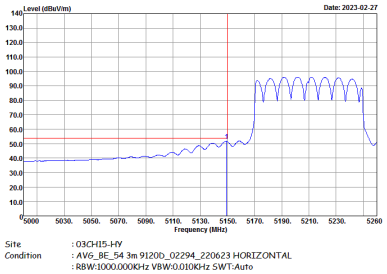
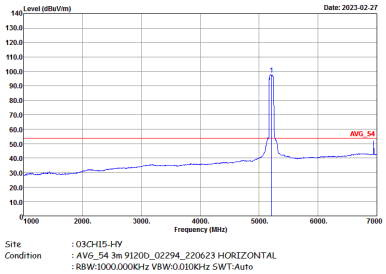
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

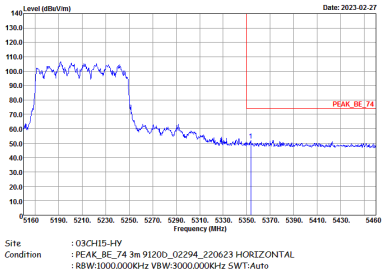
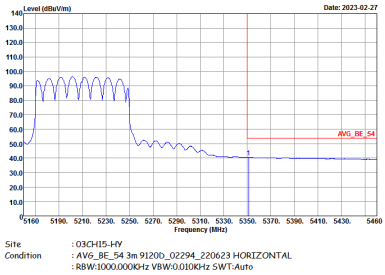
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

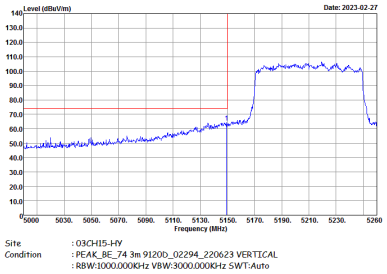
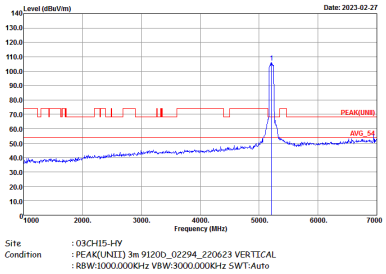
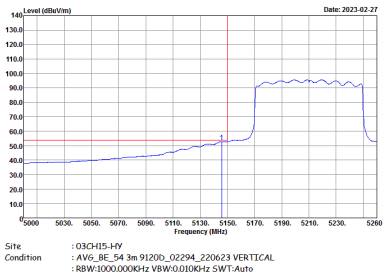
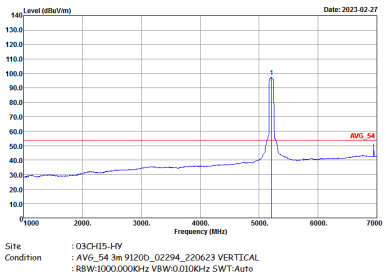
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH38 5190MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

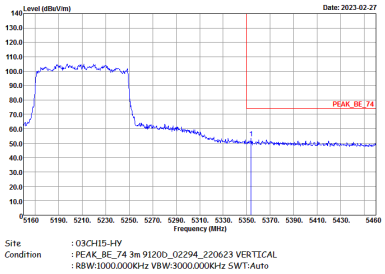
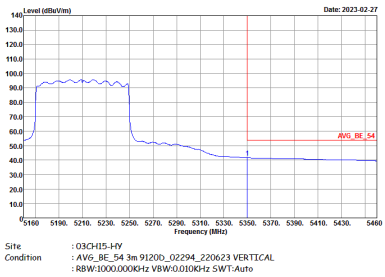
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
7+8	Horizontal	Fundamental
Peak		
Avg.		

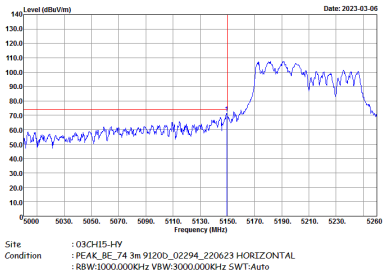
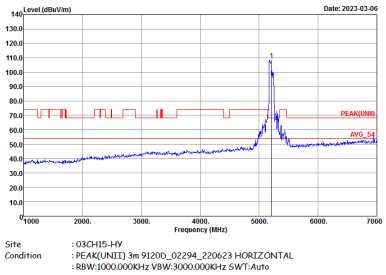
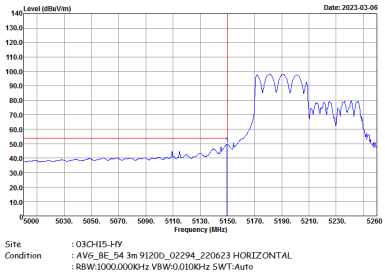
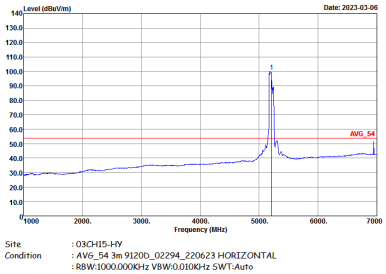
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

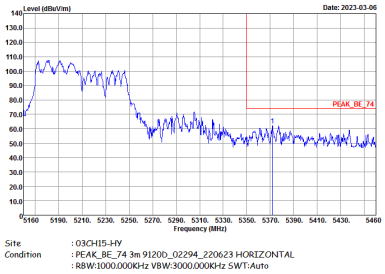
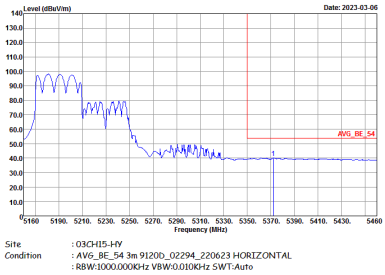
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

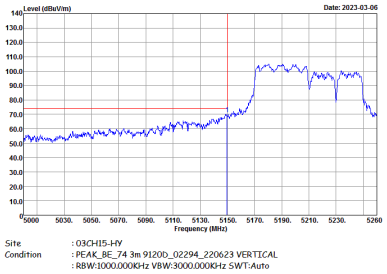
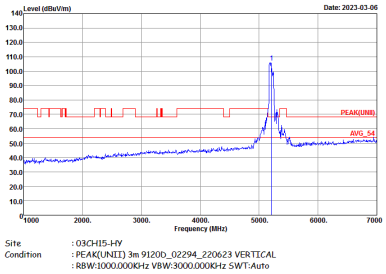
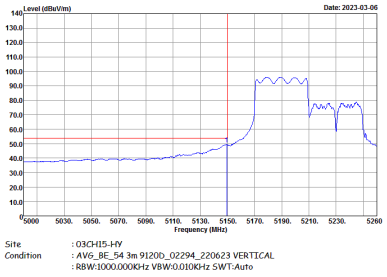
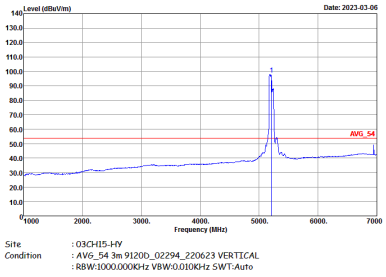
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

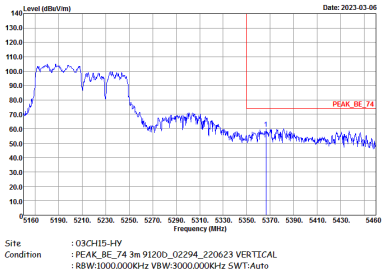
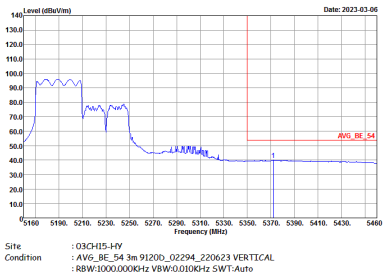
Band 1 5150~5250MHz

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

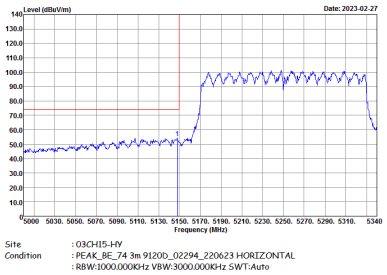
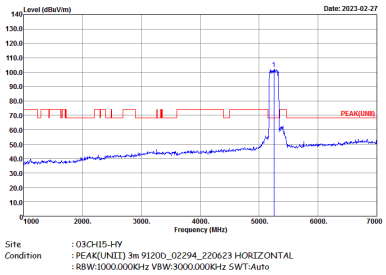
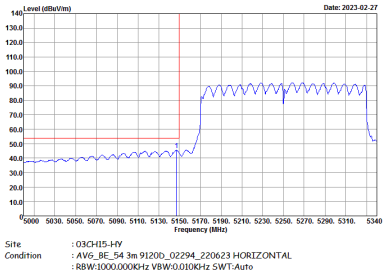
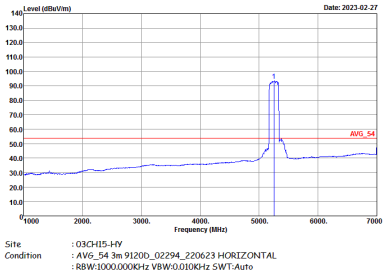
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - L	
7+8	Horizontal	Fundamental
Peak		
Avg.		

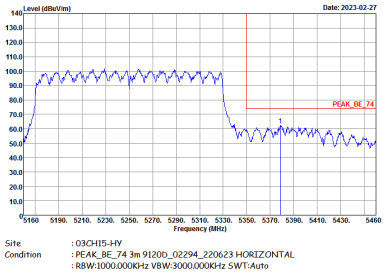
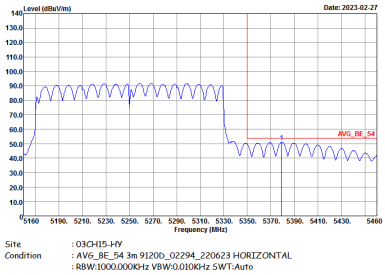
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

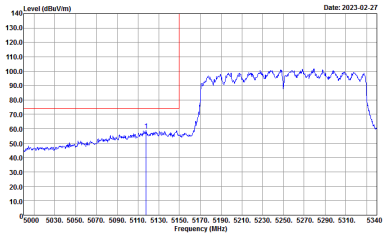
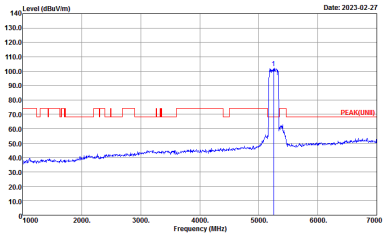
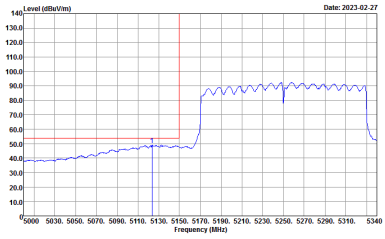
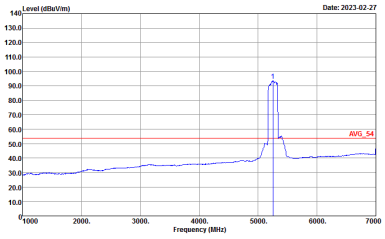
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

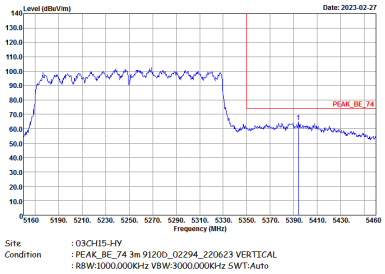
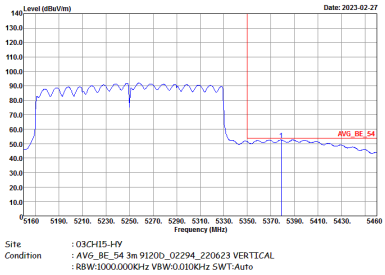
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH42 5210MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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	
7+8	Horizontal	Fundamental
Peak		
Avg.		

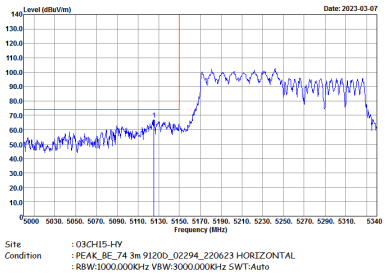
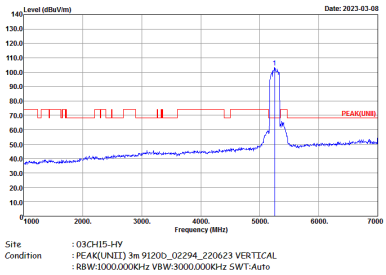
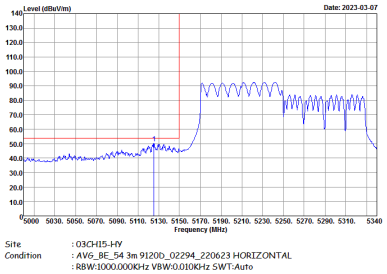
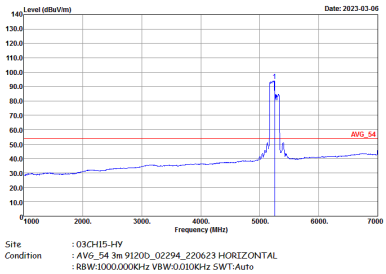
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

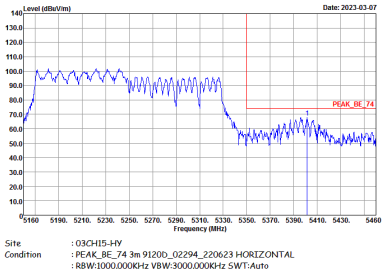
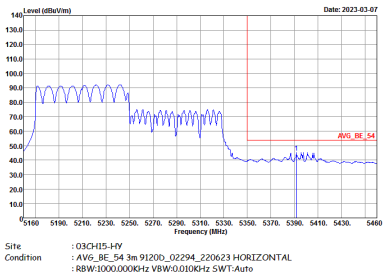
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
7+8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

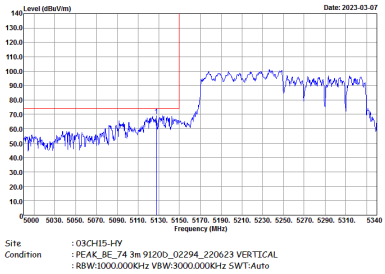
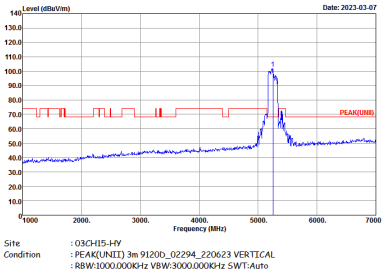
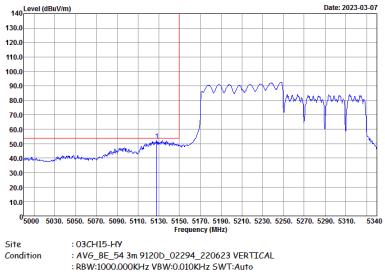
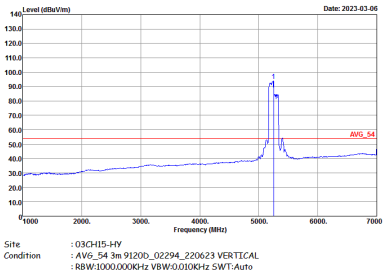
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

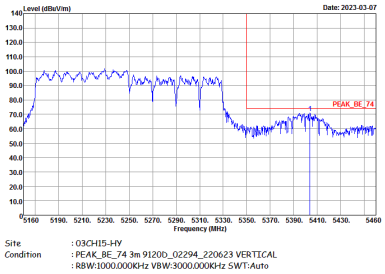
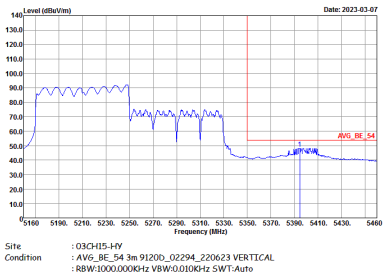
Band 1 5150~5250MHz

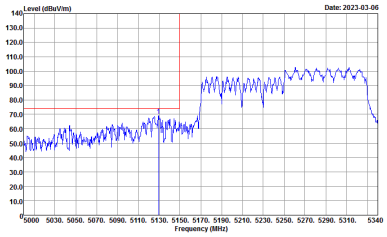
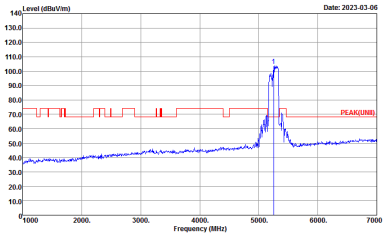
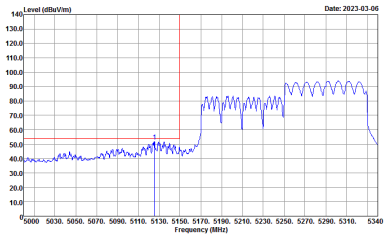
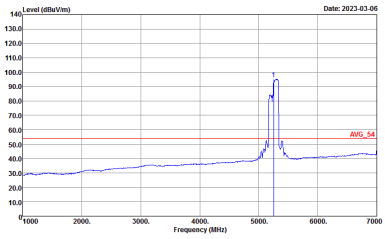
WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

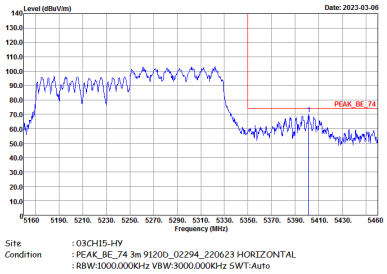
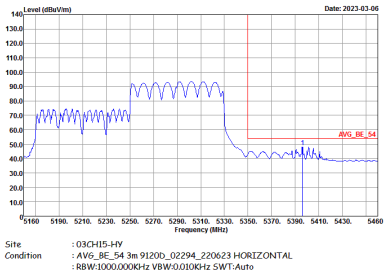
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - L	
7+8	Horizontal	Fundamental
Peak		
Avg.		

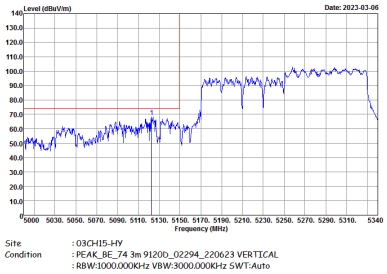
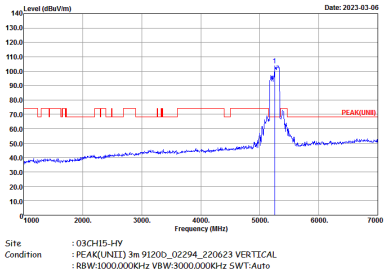
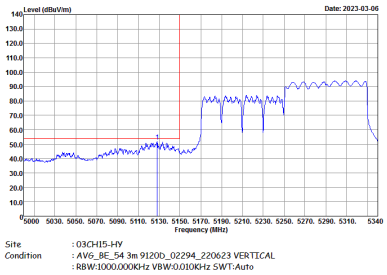
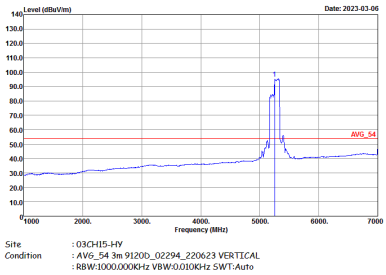
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

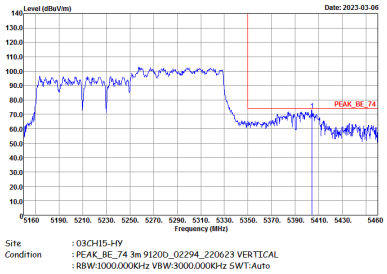
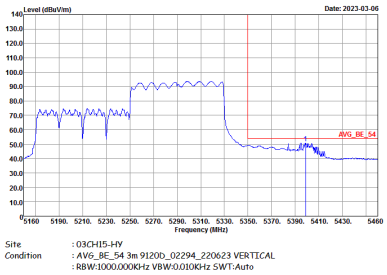
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH50 5250MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/S67 CH50 5250MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

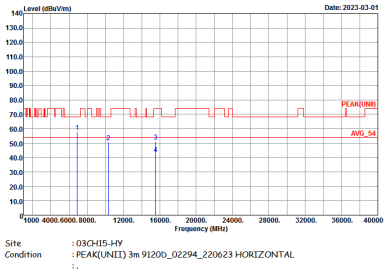
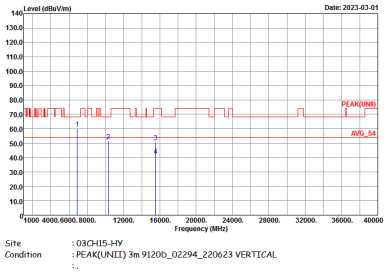
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/S67 CH50 5250MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

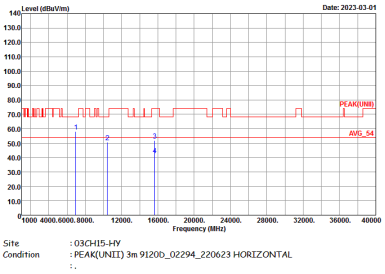
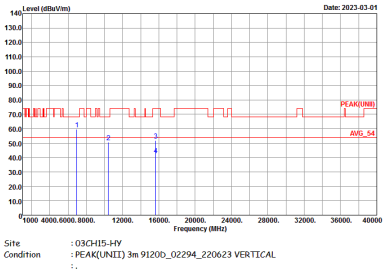
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/S67 CH50 5250MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

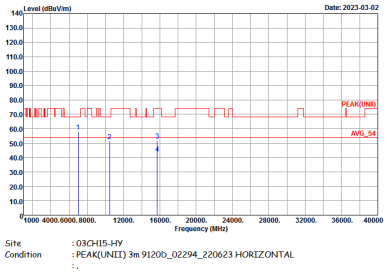
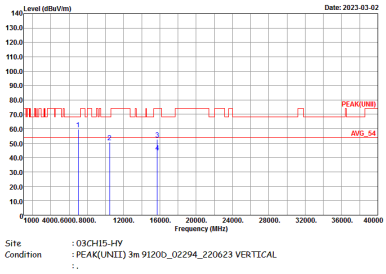
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/S67 CH50 5250MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

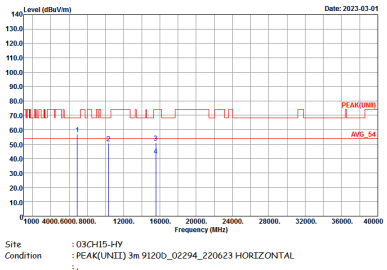
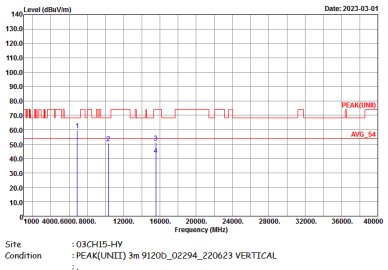
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
7+8	Horizontal	Vertical
Peak Avg.		

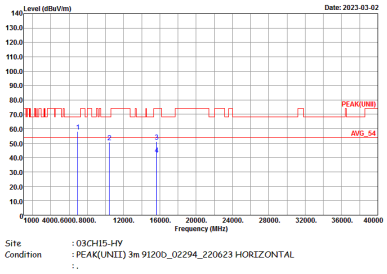
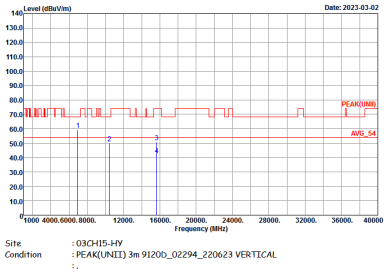
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
7+8	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : .	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 VERTICAL : .

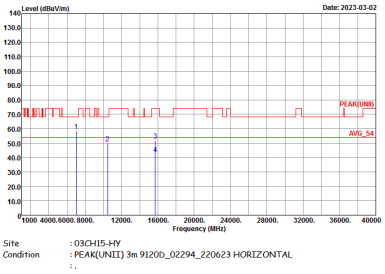
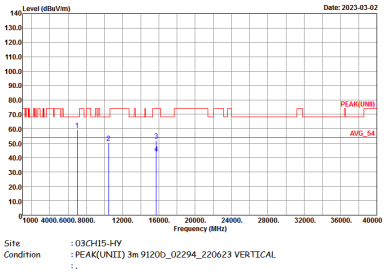
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
7+8	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

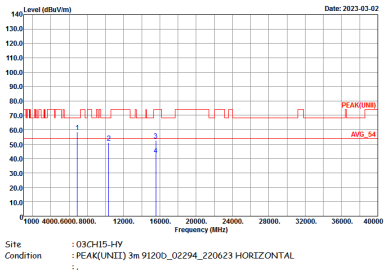
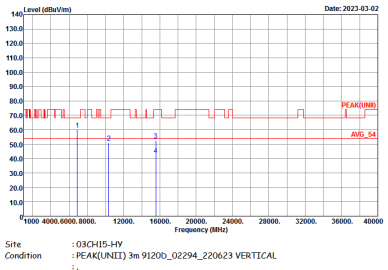
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
7+8	Horizontal	Vertical
Peak Avg.		

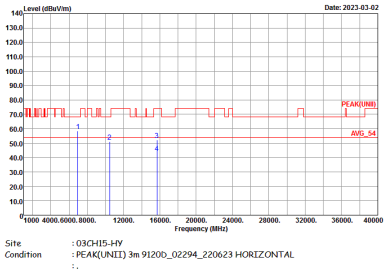
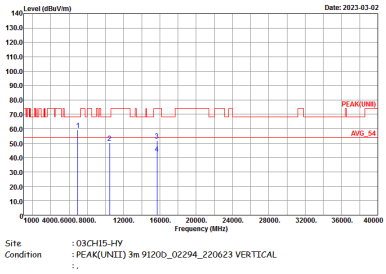
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
7+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
7+8	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

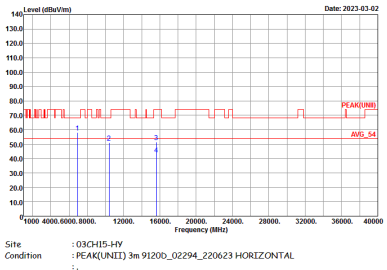
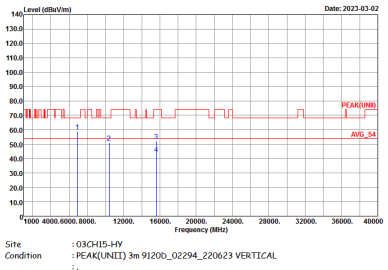
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
7+8	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
7+8	Horizontal	Vertical
Peak Avg.		

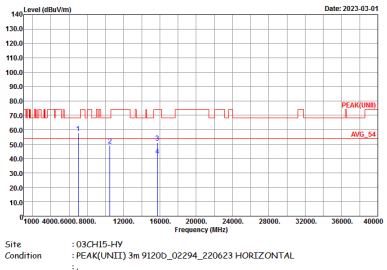
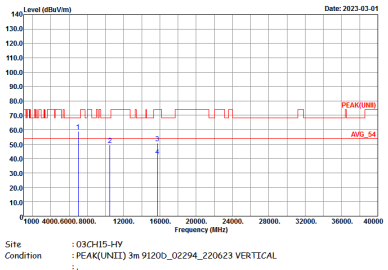
Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
7+8	Horizontal	Vertical
Peak Avg.		

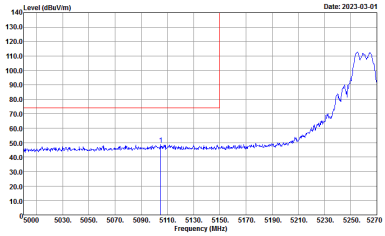
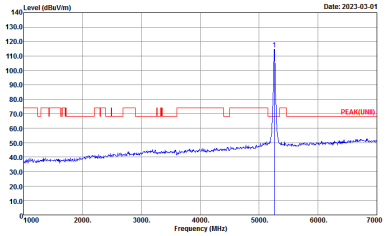
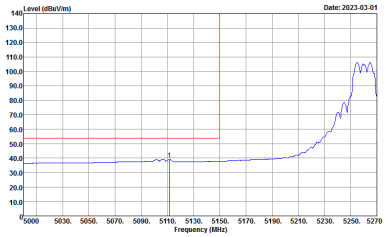
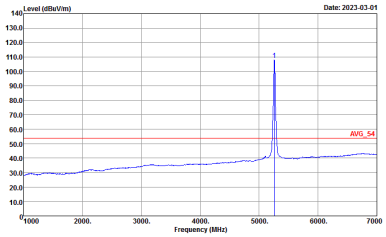
Band 1 5150~5250MHz

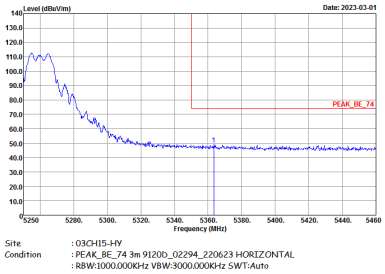
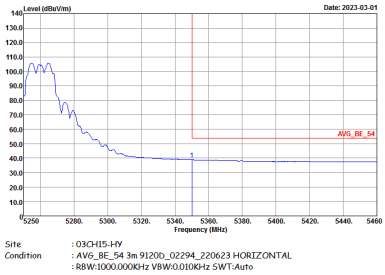
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

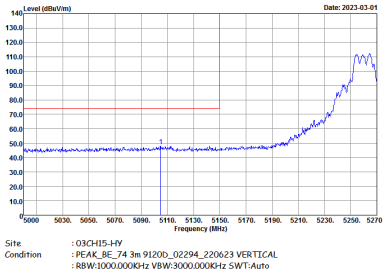
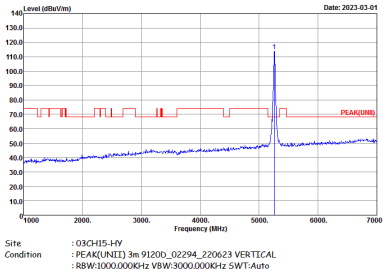
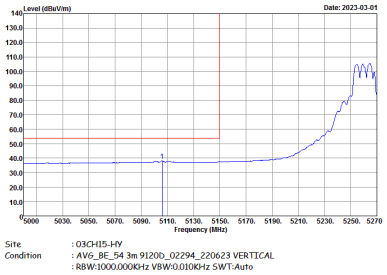
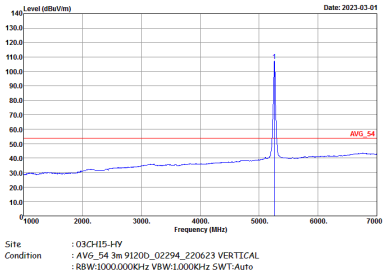
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz	
7+8	Horizontal	Vertical
Peak Avg.		

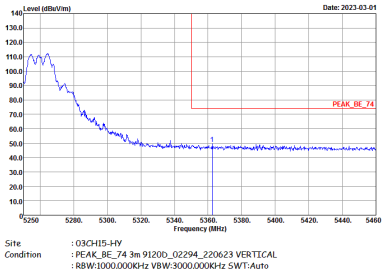
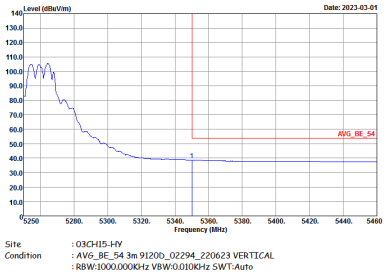
Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
7+8	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
7+8	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
7+8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank