

# TEST REPORT

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| EUT Description        | WLAN and BT, 2x2 PCIe M.2 2230 adapter card                          |
| Brand Name             | Intel® Wi-Fi 6E AX210                                                |
| Model Name             | AX210NGW                                                             |
| FCC ID / IC ID         | FCCID: PD9AX210NG/ IC 1000M-AX210NG                                  |
| Date of Test Start/End | 2020-07-23 / 2020-08-06                                              |
| Features               | 802.11ax, Dual Band, 2x2 Wi-Fi 6 + Bluetooth® 5.2<br>(see section 5) |

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
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|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Reference Standards | FCC CFR Title 47 Part 15 E<br>RSS-247 issue 2, RSS-Gen issue 5 - A1<br>(see section 1) |
|---------------------|----------------------------------------------------------------------------------------|

|                            |                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------|
| Test Report identification | 200611-03.TR03                                                                                     |
| Revision Control           | Rev. 01<br>This test report revision replaces any previous test report revision<br>(see section 8) |

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# Table of Contents

|                                                                                 |           |
|---------------------------------------------------------------------------------|-----------|
| <b>1. Standards, reference documents and applicable test methods .....</b>      | <b>3</b>  |
| <b>2. General conditions, competences and guarantees .....</b>                  | <b>3</b>  |
| <b>3. Environmental Conditions .....</b>                                        | <b>3</b>  |
| <b>4. Test samples .....</b>                                                    | <b>4</b>  |
| <b>5. EUT Features .....</b>                                                    | <b>5</b>  |
| <b>6. Remarks and comments .....</b>                                            | <b>5</b>  |
| <b>7. Test Verdicts summary .....</b>                                           | <b>5</b>  |
| 7.1. 802.11 A/N/AC/AX – U-NII- 3 .....                                          | 5         |
| <b>8. Document Revision History .....</b>                                       | <b>5</b>  |
| <b>Annex A. Test &amp; System Description .....</b>                             | <b>6</b>  |
| A.1 MEASUREMENT SYSTEM.....                                                     | 6         |
| A.2 TEST EQUIPMENT LIST .....                                                   | 8         |
| A.3 MEASUREMENT UNCERTAINTY EVALUATION .....                                    | 10        |
| <b>Annex B. Test Results U-NII-3.....</b>                                       | <b>11</b> |
| B.1 TEST CONDITIONS.....                                                        | 11        |
| B.2 TEST RESULTS TABLES .....                                                   | 13        |
| B.2.1 6dB & 99% Bandwidth .....                                                 | 13        |
| B.2.2 Power Limits. Maximum output power & Maximum power spectral Density ..... | 16        |
| B.2.3 Undesirable emission limits : out of band (Conducted).....                | 26        |
| B.2.4 Radiated spurious emission.....                                           | 27        |
| B.2.5 6dB Bandwidth .....                                                       | 41        |
| B.2.6 6dB Bandwidth (Overlapped Channel) .....                                  | 45        |
| B.2.7 99% Bandwidth.....                                                        | 48        |
| B.2.8 26dB Bandwidth (Overlapped Channel) .....                                 | 52        |
| B.2.9 Maximum output power .....                                                | 55        |
| B.2.10 Maximum output power (Overlapped Channel) .....                          | 59        |
| B.2.11 Maximum power spectral Density.....                                      | 62        |
| B.2.12 Maximum power spectral Density (Overlapped Channel).....                 | 66        |
| B.2.13 Undesirable emission limits : out of band (Conducted).....               | 70        |
| <b>Annex C. Photographs .....</b>                                               | <b>96</b> |
| C.1 TEST SETUP .....                                                            | 96        |
| C.2 TEST SAMPLE .....                                                           | 97        |

## 1. Standards, reference documents and applicable test methods

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC  | <ol style="list-style-type: none"> <li>1. FCC Title 47 CFR part 15 – Subpart E – Unlicensed National Information Infrastructure Devices. 2019-10-01 Edition</li> <li>2. FCC Title 47 CFR part 15 – Subpart C – §15.209 Radiated emission limits; general requirements. 2019-10-01 Edition</li> <li>3. FCC OET KDB 789033 D02 v02r01 - General U-NII Test Procedures New Rules – Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices (Part 15, Subpart E)</li> <li>4. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.</li> <li>5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.</li> </ol>  |
| ISED | <ol style="list-style-type: none"> <li>1. RSS-Gen Issue 5 Amendment 1 - General Requirements for Compliance of Radio Apparatus.</li> <li>2. RSS-247 Issue 2 - Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices.</li> <li>3. FCC OET KDB 789033 D02 v02r01 - General U-NII Test Procedures New Rules – Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices (Part 15, Subpart E)</li> <li>4. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.</li> <li>5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices</li> </ol> |

## 2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED #1000Y.
- ✓ Intel WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
- ✓ Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

## 3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

|             |            |
|-------------|------------|
| Temperature | 23°C ± 2°C |
| Humidity    | 61% ± 10%  |

#### 4. Test samples

| Sample | Control #     | Description    | Model          | Serial #         | Date of receipt | Note                                             |
|--------|---------------|----------------|----------------|------------------|-----------------|--------------------------------------------------|
| #01    | 200611-03.S03 | WiFi 6E Module | AX210NGW       | WFM:9C297662CA0A | 2020-07-15      | Used for 1-6.4 GHz RSE tests                     |
|        | 170209-01.S16 | Laptop         | E5470          | C1HTPF2          | 2017-05-24      |                                                  |
|        | 200226-02.S04 | Extender       | ADEXELEC       | -                | 2020-04-30      |                                                  |
|        | 200611-03.S13 | Main Antenna   | Skycross       | -                | 2020-07-15      |                                                  |
|        | 200611-03.S14 | Aux Antenna    | Skycross       | -                | 2020-07-15      |                                                  |
| #02    | 200611-03.S01 | WiFi 6E Module | AX210NGW       | WFM:9C297662CA5F | 2020-07-15      | Used for 6.4-18 GHz RSE tests                    |
|        | 170000-01.S01 | Laptop         | E5470          | DBPLMC2          | 2017-03-28      |                                                  |
|        | 200611-03.S26 | Extender       | A3030-Flex     | 412              | 2020-07-01      |                                                  |
|        | 200611-03.S20 | Main Antenna   | Skycross       | -                | 2020-07-01      |                                                  |
|        | 200611-03.S21 | Aux Antenna    | Skycross       | -                | 2020-07-01      |                                                  |
| #03    | 200611-03.S01 | WiFi 6E Module | AX210NGW       | WFM:9C297662CA5F | 2020-07-15      | Used for 30MHz – 1GHz & 18 GHz- 40 GHz RSE tests |
|        | 170000-01.S01 | Laptop         | E5470          | DBPLMC2          | 2017-03-28      |                                                  |
|        | 200611-03.S26 | Extender       | A3030-Flex     | 412              | 2020-07-01      |                                                  |
|        | 200611-03.S20 | Main Antenna   | Skycross       | -                | 2020-07-01      |                                                  |
|        | 200611-03.S21 | Aux Antenna    | Skycross       | -                | 2020-07-01      |                                                  |
| #04    | 200611-03.S10 | WiFi 6E Module | AX210NGW       | WFM:9C297662C6BD | 2020-07-15      | RF Conducted                                     |
|        | 170000-01.S02 | Laptop         | Latitude E5450 | 21HTPF2          | 2017-03-28      |                                                  |
|        | 170524-01.S13 | Extender       | PCB00495       | 4955013-032      | 2017-05-29      |                                                  |

## 5. EUT Features

The herein information is provided by the customer

|                                                                 |                                                                                                                                                                                                                                                                                                                                                           |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|-------------|-----------------|-----------------------------------------------------------------|--------------|----------|----------|--------------|--------------|--------------|-------------|-----|-----|-----------------------------|----|----|
| Brand Name                                                      | Intel® Wi-Fi 6E AX210                                                                                                                                                                                                                                                                                                                                     |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Model Name                                                      | AX210NGW                                                                                                                                                                                                                                                                                                                                                  |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Software Version                                                | DRTU version: OEM_DRTU_CommonApp_00830_99_3500_51W<br>DRTU version: OEM_DRTU_CommonApp_01299_99_3500_51W used for 802.11ax RU test on output power and band edges measurements                                                                                                                                                                            |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Driver Version                                                  | 99.0.55.2 V0.13.2.15<br>99.0.55.2 V0.13.2.16 used for 802.11ax RU test on output power and band edges measurements                                                                                                                                                                                                                                        |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Prototype / Production                                          | Production                                                                                                                                                                                                                                                                                                                                                |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Supported Radios                                                | 802.11b/g/n/ax 2.4GHz (2400.0 – 2483.5 MHz)<br>802.11a/n/ac/ax 5.2GHz (5150.0 – 5350.0 MHz)<br>5.6GHz (5470.0 – 5725.0 MHz)<br>5.8GHz (5725.0 – 5895.0 MHz)<br><br>Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz)                                                                                                                                             |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Antenna Information                                             | <table><tr><td>Transmitter</td><td>Chain A (Main)</td><td>Chain B (Aux)</td></tr><tr><td>Manufacturer</td><td>SkyCross</td><td>Skycross</td></tr><tr><td>Antenna type</td><td>PIFA antenna</td><td>PIFA antenna</td></tr><tr><td>Part number</td><td>N/A</td><td>N/A</td></tr><tr><td>Declared Antenna gain (dBi)</td><td>+5</td><td>+5</td></tr></table> |               |  | Transmitter | Chain A (Main)  | Chain B (Aux)                                                   | Manufacturer | SkyCross | Skycross | Antenna type | PIFA antenna | PIFA antenna | Part number | N/A | N/A | Declared Antenna gain (dBi) | +5 | +5 |
| Transmitter                                                     | Chain A (Main)                                                                                                                                                                                                                                                                                                                                            | Chain B (Aux) |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Manufacturer                                                    | SkyCross                                                                                                                                                                                                                                                                                                                                                  | Skycross      |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Antenna type                                                    | PIFA antenna                                                                                                                                                                                                                                                                                                                                              | PIFA antenna  |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Part number                                                     | N/A                                                                                                                                                                                                                                                                                                                                                       | N/A           |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Declared Antenna gain (dBi)                                     | +5                                                                                                                                                                                                                                                                                                                                                        | +5            |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Document                                                        | <table><tr><td>Filename</td><td>Date of receipt</td></tr><tr><td>Intel_Ref_Antenna data_HMC-M2Ant_Spec_Universe_SkyCross Antenna</td><td>2013-01-28</td></tr></table>                                                                                                                                                                                     |               |  | Filename    | Date of receipt | Intel_Ref_Antenna data_HMC-M2Ant_Spec_Universe_SkyCross Antenna | 2013-01-28   |          |          |              |              |              |             |     |     |                             |    |    |
| Filename                                                        | Date of receipt                                                                                                                                                                                                                                                                                                                                           |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |
| Intel_Ref_Antenna data_HMC-M2Ant_Spec_Universe_SkyCross Antenna | 2013-01-28                                                                                                                                                                                                                                                                                                                                                |               |  |             |                 |                                                                 |              |          |          |              |              |              |             |     |     |                             |    |    |

## 6. Remarks and comments

- No deviations were made from the test methods listed in section 1 of this report
- Only the worst case plot per 802.11 mode and per test case have been reported except that band edge where all plots were reported

## 7. Test Verdicts summary

The statement of conformity to applicable standards in the table below are based on the measured values, without taking into account the measurement uncertainties.

### 7.1. 802.11 a/n/ac/ax – U-NII- 3

| FCC part                 | RSS clause                                      | Test name                                             | Verdict |
|--------------------------|-------------------------------------------------|-------------------------------------------------------|---------|
| 15.407 (a) (3)           | RSS-247 Clause 6.2.4.1                          | Power Limits. Maximum output power                    | P       |
| 15.407 (a) (3)           | RSS-247 Clause 6.2.4.1                          | Maximum power spectral density                        | P       |
| 15.407 (b) (3)           | RSS-247 Clause 6.2.4.2                          | Undesirable emissions limits: out of band (conducted) | P       |
| 15.407 (b) (3)<br>15.209 | RSS-247 Clause 6.2.4.2<br>RSS-GEN A1 Clause 8.9 | Undesirable emissions limits (radiated)               | P       |

## 8. Document Revision History

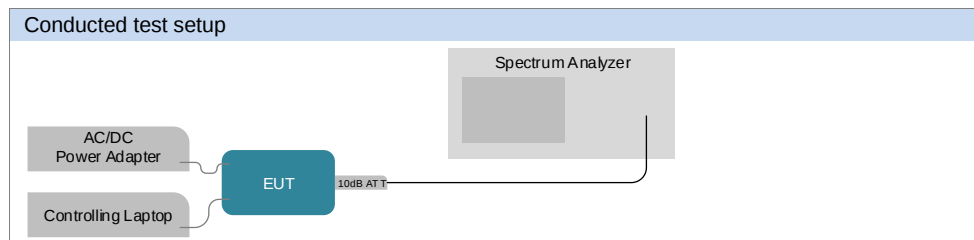
| Revision # | Modified by | Revision Details                                                                        |
|------------|-------------|-----------------------------------------------------------------------------------------|
| Rev. 00    | I.Kharrat   | First Issue                                                                             |
| Rev.01     | Z.OUACHICHA | Modification of EUT features section.<br>Addition of frequency column on table results. |

# Annex A. Test & System Description

## A.1 Measurement System

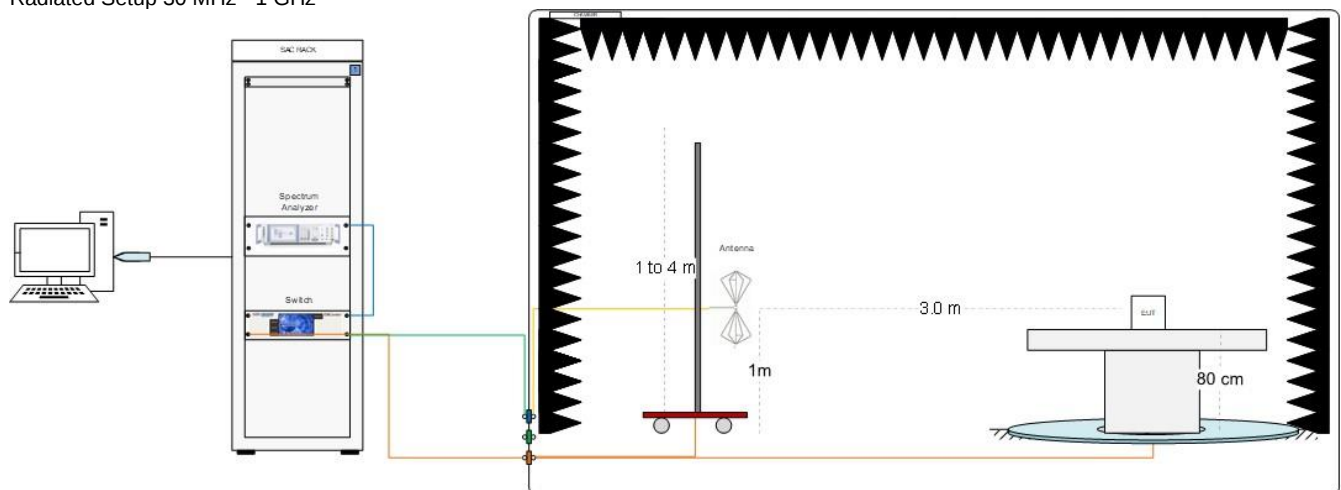
Measurements were performed using the following setups, made in accordance to the general provisions of FCC KDB 789033 D02 General UNII Test Procedures.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.

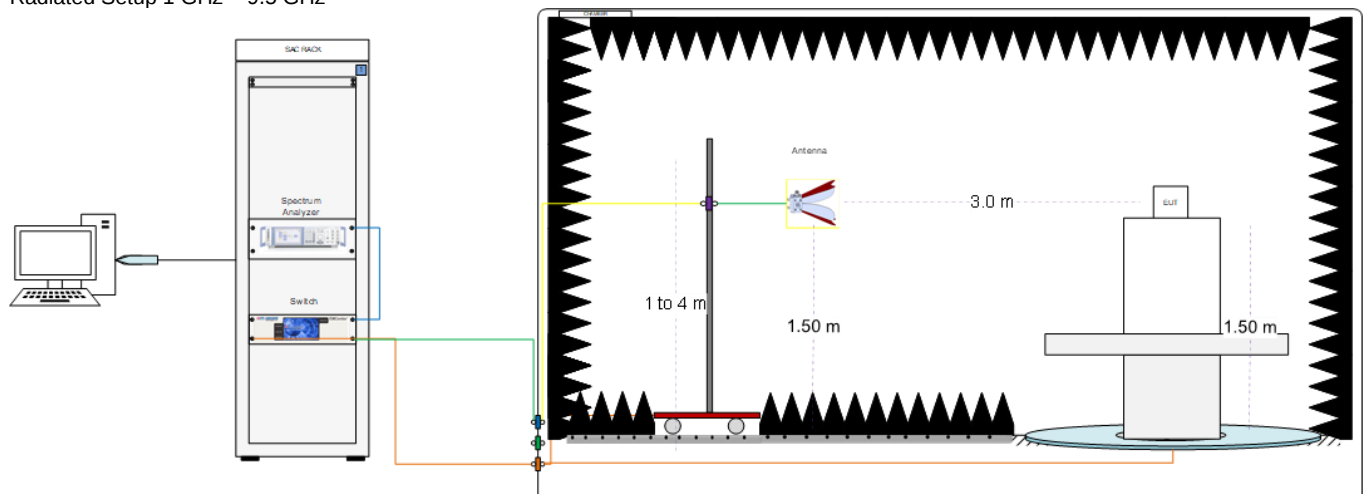


### Radiated test setup

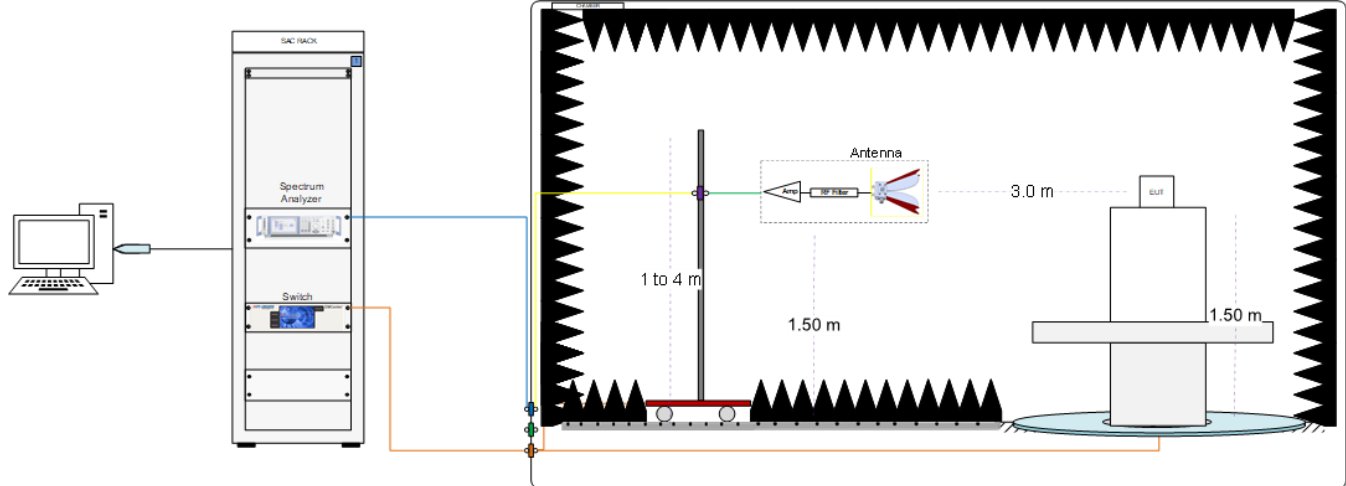
#### Radiated Setup 30 MHz - 1 GHz



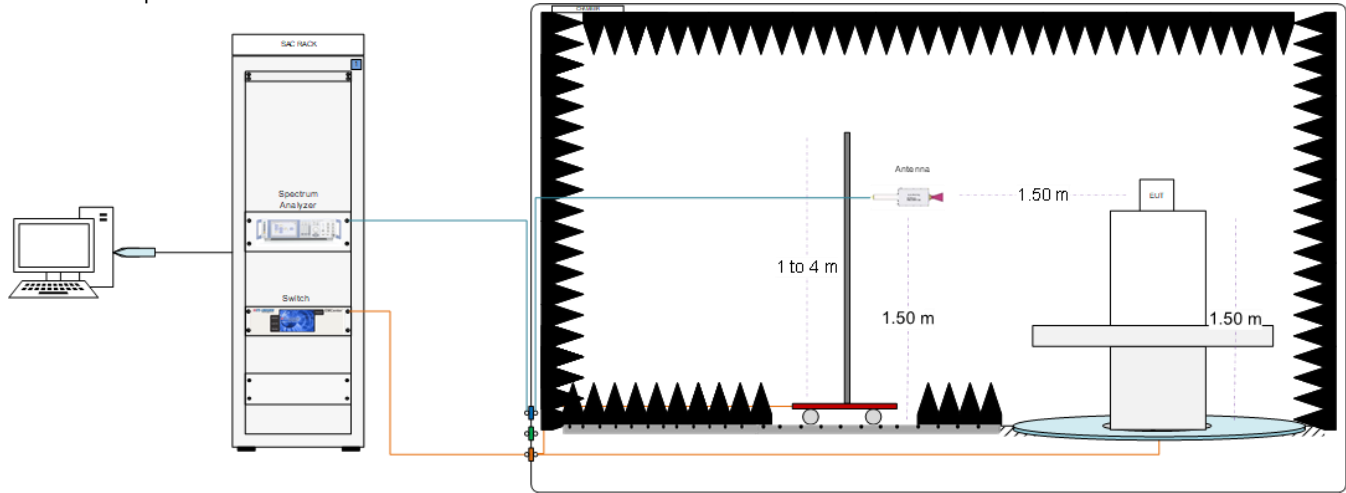
#### Radiated Setup 1 GHz – 9.5 GHz



Radiated Setup 9.5 GHz - 18 GHz



Radiated Setup 18 GHz – 40 GHz



### Sample Calculation

The spurious received voltage  $V(\text{dB}\mu\text{V})$  in the spectrum Analyzer is converted to Electric field strength using the transducer factor  $F$  corresponding to the Rx path Loss:

$$F(\text{dB/m}) = \text{Rx Antenna Factor}(\text{dB/m}) + \text{Cable losses}(\text{dB}) - \text{Amplifiers Gain}(\text{dBi})$$

$$E(\text{dB}\mu\text{V/m}) = V(\text{dB}\mu\text{V}) + F(\text{dB/m})$$

For field strength measurements made at other than the distance at which the applicable limit is specified, the field strength of the emission at the distance specified by the limit is deduced as follows:

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \cdot \log(D_{\text{Meas}}/D_{\text{SpecLimit}})$$

where

$E_{\text{SpecLimit}}$  is the field strength of the emission at the distance specified by the limit, in  $\text{dB}\mu\text{V/m}$

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in  $\text{dB}\mu\text{V/m}$

$D_{\text{Meas}}$  is the measurement distance, in m

$D_{\text{SpecLimit}}$  is the distance specified by the limit, in m

## A.2 Test Equipment List

### Conducted setup

| ID#  | Device                   | Type/Model                         | Serial #   | Manufacturer    | Cal. Date  | Cal. Due Date |
|------|--------------------------|------------------------------------|------------|-----------------|------------|---------------|
| 0316 | Spectrum Analyzer        | FSV30                              | 103309     | Rohde & Schwarz | 2019-09-02 | 2021-09-02    |
| 0443 | RF cable 100cm           | Coax 2.92mm Male<br>To 2.92mm Male | N/A        | PASTERNAK       | N/A        | N/A           |
| 1044 | 10dB Attenuator + MH4    | N/A                                | N/A        | N/A             | N/A        | N/A           |
| 0583 | Temp & Humidity Logger   | RA12E-TH1-RAS                      | RA12-B9D6E | AVITECH         | 2019-09-06 | 2021-09-06    |
| 1002 | Measurement SW v1.4.10.8 | Octopi                             | N/A        | Step AT         | N/A        | N/A           |

### Radiated Setup #1

| ID#  | Device                                                           | Type/Model                     | Serial #               | Manufacturer    | Cal. Date  | Cal. Due Date |
|------|------------------------------------------------------------------|--------------------------------|------------------------|-----------------|------------|---------------|
| 0135 | Anechoic Chamber                                                 | FACT3                          | 5720                   | ETS-Lindgren    | 2020-07-06 | 2022-07-06    |
| 0136 | Turn Table                                                       | ETS                            | -                      | ETS-Lindgren    | N/A        | N/A           |
| 0147 | Switch & Positioning systems                                     | EMC Center                     | 00159757               | ETS-Lindgren    | N/A        | N/A           |
| 0420 | Spectrum Analyzer                                                | FSV40                          | 101556                 | Rohde & Schwarz | 2020-05-25 | 2022-05-25    |
| 0530 | Measurement SW, v10.40.10                                        | EMC32                          | 100623                 | Rohde & Schwarz | 2020-06-24 | 2021-06-24    |
| 0202 | Cable 1m - 30MHz to 18 GHz                                       | UFB311A-0-3360-50U300          | MFR 64639223229-001    | Micro-coax      | N/A        | N/A           |
| 0206 | Cable 1.2m – 18 to 40 GHz                                        | UFA147A-0-0480-200200          | MFR 64639223720-003    | Micro-coax      | N/A        | N/A           |
| 0263 | Cable 1m - 1GHz to 18GHz                                         | UFA147A                        | -                      | Utilflex        | N/A        | N/A           |
| 0325 | Horn antenna 3117                                                | 3117                           | 00157734               | ETS-Lindgren    | 2019-08-12 | 2021-08-12    |
| 0334 | Double-Ridged Waveguide Horn with Pre-Amplifier 18 GHz to 40 GHz | 3116C+PA                       | 00169308bis + 00196308 | ETS-Lindgren    | 2019-07-24 | 2021-07-24    |
| 0993 | Biconical antenna 30 MHz – 1 GHz                                 | UBAA9115 + BBVU9135 + DGA9552N | 0286 + CH 9044         | Schwarzbeck     | 2019-11-22 | 2021-11-22    |
| 0141 | Horn Antenna 3117 + Amplifier + HPF6.4                           | 3117                           | 00157736               | ETS-Lindgren    | 2020-04-01 | 2022-04-01    |
| 0371 | Cable 1m – 30 MHz - 18GHz                                        | UFB311A-0-0590-50U50U          | MFR 64639 223230-001   | Micro-coax      | NA         | NA            |
| 0758 | Cable 7.5m - 30MHz to 18GHz                                      | 0501051057000GX                | 18.23.181              | Radiall         | NA         | NA            |
| 0809 | Cable 7m - 18GHz to 40GHz                                        | R286304009                     | -                      | Radiall         | NA         | NA            |
| 0859 | Cable 2.5m - 30MHz to 18GHz                                      | 0500990992500KE                | 19.23.395              | Radiall         | NA         | NA            |
| 0797 | Temp & Humidity Logger                                           | RA12E-TH1-RAS                  | RA12-D0EB1A            | Avtech          | 2019-07-04 | 2021-07-04    |
| 1033 | Boresight antenna mast                                           | BAM 4.0-P                      | P/278/2890.01          | Maturo          | N/A        | N/A           |

N/A: Not Applicable

## Radiated Setup #2

| ID#  | Device                                    | Type/Model      | Serial #    | Manufacturer    | Cal. Date  | Cal. Due Date |
|------|-------------------------------------------|-----------------|-------------|-----------------|------------|---------------|
| 0337 | Anechoic chamber                          | RFD-FA-100      | 5996        | ETS Lindgren    | 2020-07-06 | 2022-07-06    |
| 0238 | Switch & Positioner                       | EMCenter        | 00151232    | ETS Lindgren    | N/A        | N/A           |
| 0382 | Antenna Tower                             | 2171B-3.0M      | 00150123    | ETS Lindgren    | N/A        | N/A           |
| 0383 | Turntable                                 | -               | -           | ETS Lindgren    | N/A        | N/A           |
| 0329 | Measurement SW, v10.50.10                 | EMC32           | 100401      | Rohde & Schwarz | N/A        | N/A           |
| 0419 | Spectrum Analyzer                         | FSW67           | 103266      | Rohde & Schwarz | 2019-02-04 | 2021-02-04    |
| 0138 | Double Ridge Horn (1- 18GHz)              | 3117            | 00152266    | ETS Lindgren    | 2020-03-08 | 2022-03-08    |
| 0860 | RF Cable 1-18GHz, 1.2 m                   | 2301761761200PJ | 12.22.1104  | Radiall         | N/A        | N/A           |
| 0275 | RF Cable 1-18GHz - 6.5m                   | 140-8500-11-51  | 001         | Spectrum        | N/A        | N/A           |
| 0684 | RF Cable 1GHz-18GHz 1.5m                  | -               | -           | Spirent         | N/A        | N/A           |
| 0133 | Spectrum Analyzer                         | FSV40           | 101358      | Rohde & Schwarz | 2020-02-25 | 2022-02-25    |
| 0141 | Horn Antenna 3117 + Amplifier<br>+ HPF6.4 | 3117            | 00157736    | ETS-Lindgren    | 2020-04-01 | 2022-04-01    |
| 0871 | RF Cable 1-18GHz - 1.5m                   | 0501050991200GX | 19.21.710   | Radiall         | N/A        | N/A           |
| 0796 | Temp & Humidity Logger                    | RA12E-TH1-RAS   | RA12-D4F316 | Avtech          | 2019-07-05 | 2021-07-05    |

## Shared Radiated Equipment

| ID#  | Device       | Type/Model | Serial # | Manufacturer    | Cal. Date  | Cal. Due Date |
|------|--------------|------------|----------|-----------------|------------|---------------|
| 0616 | Power Sensor | NRP-Z81    | 104385   | Rohde & Schwarz | 2020-04-08 | 2022-04-08    |
| 0617 | Power Sensor | NRP-Z81    | 104386   | Rohde & Schwarz | 2020-04-08 | 2022-04-08    |
| 0618 | Power Sensor | NRP-Z81    | 104382   | Rohde & Schwarz | 2020-04-08 | 2022-04-08    |

### A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of  $k = 2$  to indicate a 95% level of confidence:

| Measurement type                      | Uncertainty | Unit |
|---------------------------------------|-------------|------|
| Timing                                | $\pm 0.12$  | %    |
| Power Spectral density                | $\pm 1.47$  | dB   |
| Occupied bandwidth                    | $\pm 2.07$  | %    |
| Conducted Power                       | $\pm 1.03$  | dB   |
| Conducted Spurious Emission <26.5 GHz | $\pm 2.90$  | dB   |
| Radiated tests <1GHz                  | $\pm 2.95$  | dB   |
| Radiated tests 1GHz – 40 GHz          | $\pm 5.02$  | dB   |

# Annex B. Test Results U-NII-3

The herein test results were performed by:

| Test case measurement                                | Test Engineer                                                 |
|------------------------------------------------------|---------------------------------------------------------------|
| 6dB and 99% Bandwidth                                | Cedric Requin                                                 |
| Maximum output power & Maximum PSD                   | Cedric Requin                                                 |
| Undesirable emission limits: out of band (conducted) | Cedric Requin                                                 |
| Radiated spurious emissions                          | R. Luciani<br>N. Bui<br>A. Lounes<br>I. Kharrat<br>N. Nachabe |

## B.1 Test Conditions

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 and 802.11ax40 (40MHz channel bandwidth) 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The conducted RF output power at each chain was adjusted according to the client's supplied target values (see following table) using the Intel DRTU tool and measuring the power by using a spectrum analyser with the channel integration method according to section II) E) 2) e) (Method SA-2 Alternative) of Guidance FCC KDB 789033 D02 Measured values for adjustment were within +/- 0.25 dB from the declared target values..

| U-NII-3  |          |             |      |             | Conducted Power, Target Value (dBm) |              |                            |
|----------|----------|-------------|------|-------------|-------------------------------------|--------------|----------------------------|
| Mode     | BW (MHz) | Data Rate   | CH # | Freq. (MHz) | SISO Chain A                        | SISO Chain B | MIMO at both ports A and B |
| 802.11a  | 20       | 6Mbps       | 149  | 5745        | 21.25                               | 21.00        | -                          |
|          |          |             | 157  | 5785        | 21.25                               | 21.00        | -                          |
|          |          |             | 165  | 5825        | 21.25                               | 21.00        | -                          |
| 802.11n  | 20       | HT0<br>HT8* | 149  | 5745        | 21.25                               | 21.00        | 21.25                      |
|          |          |             | 157  | 5785        | 21.25                               | 21.00        | 21.25                      |
|          |          |             | 165  | 5825        | 21.25                               | 21.00        | 21.25                      |
| 802.11n  | 40       | HT0<br>HT8* | 151  | 5755        | 21.25                               | 21.00        | 21.50                      |
|          |          |             | 159  | 5795        | 21.25                               | 21.00        | 21.50                      |
| 802.11ac | 80       | VHT0        | 155  | 5775        | 20.00                               | 20.00        | 19.50                      |
| 802.11ax | 20       | HE0         | 149  | 5745        | 21.25                               | 21.00        | 21.50                      |
|          |          |             | 157  | 5785        | 21.25                               | 21.00        | 21.25                      |
|          |          |             | 165  | 5825        | 21.25                               | 21.00        | 21.50                      |
| 802.11ax | 40       | HE0         | 151  | 5755        | 21.00                               | 21.00        | 21.25                      |
|          |          |             | 159  | 5795        | 21.00                               | 21.00        | 21.25                      |
| 802.11ax | 80       | HE0         | 155  | 5775        | 20.00                               | 20.00        | 19.25                      |

\* Note: HT8 for MIMO modes only

| Overlapped channels between UNII-2C and UNII-3 |          |             |      |             | Conducted Power, Target Value (dBm) |              |                            |
|------------------------------------------------|----------|-------------|------|-------------|-------------------------------------|--------------|----------------------------|
| Mode                                           | BW (MHz) | Data Rate   | CH # | Freq. (MHz) | SISO Chain A                        | SISO Chain B | MIMO at both ports A and B |
| 802.11n                                        | 20       | HT0<br>HT8* | 144  | 5720        | 20.50                               | 20.50        | 18.50                      |
| 802.11n                                        | 40       | HT0<br>HT8* | 142  | 5710        | 21.00                               | 21.00        | 21.00                      |
| 802.11ac                                       | 80       | VHT0        | 138  | 5690        | 21.00                               | 21.00        | 21.00                      |
| 802.11ax                                       | 20       | HE0         | 144  | 5720        | 20.50                               | 20.50        | 19.00                      |
| 802.11ax                                       | 40       | HE0         | 142  | 5710        | 21.00                               | 21.00        | 21.00                      |
| 802.11ax                                       | 80       | HE0         | 138  | 5690        | 20.50                               | 21.00        | 21.00                      |

\* Note: HT8 for MIMO modes only

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

| Transmission | Mode     | Bandwidth (MHz) | Worst Case Data Rate |
|--------------|----------|-----------------|----------------------|
| SISO         | 802.11a  | 20              | 6Mbps                |
|              | 802.11n  | 20              | HT0                  |
|              |          | 40              | HT0                  |
|              | 802.11ac | 80              | VHT0                 |
|              | 802.11ax | 20              | HE0                  |
|              |          | 40              | HE0                  |
|              |          | 80              | HE0                  |
| MIMO         | 802.11n  | 20/40           | HT8                  |
|              | 802.11ac | 80              | VHT0                 |
|              | 802.11ax | 20/40/80        | HE0                  |

Alternative channels to the lowest and highest channels per band have been also tested for Band Edge compliance.

## B.2 Test Results Tables

### B.2.1 6dB & 99% Bandwidth

#### Test limits

| FCC part   | RSS clause                | Limits                                                                                                   |
|------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| 15.407 (e) | RSS-247<br>Clause 6.2.4.1 | For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz. |

#### Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 6dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

For the overlapped channels between U-NII-2C and U-NII-3 bands, and according to FCC KDB 789033 D02, the boundary frequency between the bands is used as one edge for defining the portion of the 6dB bandwidth that falls within a particular U-NII band. This rule is only applicable for the 6dB bandwidth and for those channels marked as overlapped.

#### Results tables

##### U-NII-3 channels

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | 6dB BW [MHz] | 99% BW [MHz] |
|---------|------------|---------|------------|-------|------------|--------------|--------------|
| SISO A  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 15.12        | 16.60        |
| SISO A  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 15.08        | 16.60        |
| SISO A  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 15.06        | 16.68        |
| SISO A  | 802.11n20  | 149     | 5745       | HT0   | NA         | 15.07        | 17.76        |
| SISO A  | 802.11n20  | 157     | 5785       | HT0   | NA         | 14.99        | 17.84        |
| SISO A  | 802.11n20  | 165     | 5825       | HT0   | NA         | 15.24        | 17.72        |
| SISO A  | 802.11n40  | 151     | 5755       | HT0   | NA         | 35.01        | 36.16        |
| SISO A  | 802.11n40  | 159     | 5795       | HT0   | NA         | 35.09        | 36.16        |
| SISO A  | 802.11ac80 | 155     | 5775       | VHT0  | FullBW     | 75.10        | 75.00        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 17.21        | 18.92        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 2.02         | 18.52        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 16.99        | 18.40        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 17.15        | 18.36        |
| SISO A  | 802.11ax20 | 157     | 5785       | HE0   | FullBW     | 16.55        | 18.92        |
| SISO A  | 802.11ax20 | 165     | 5825       | HE0   | FullBW     | 17.98        | 18.92        |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | FullBW     | 35.72        | 37.60        |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | 242/61     | 16.98        | 18.72        |
| SISO A  | 802.11ax40 | 159     | 5795       | HE0   | FullBW     | 35.08        | 37.44        |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | FullBW     | 73.83        | 76.68        |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | 484/65     | 35.17        | 37.44        |

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | 6dB BW [MHz] | 99% BW [MHz] |
|---------|------------|---------|------------|-------|------------|--------------|--------------|
| SISO B  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 15.10        | 16.68        |
| SISO B  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 15.09        | 16.64        |
| SISO B  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 15.06        | 16.68        |
| SISO B  | 802.11n20  | 149     | 5745       | HT0   | NA         | 13.87        | 17.68        |
| SISO B  | 802.11n20  | 157     | 5785       | HT0   | NA         | 14.96        | 17.76        |
| SISO B  | 802.11n20  | 165     | 5825       | HT0   | NA         | 15.31        | 17.80        |
| SISO B  | 802.11n40  | 151     | 5755       | HT0   | NA         | 35.07        | 36.32        |
| SISO B  | 802.11n40  | 159     | 5795       | HT0   | NA         | 35.09        | 36.08        |
| SISO B  | 802.11ac80 | 155     | 5775       | VHT0  | FullBW     | 73.87        | 75.12        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 13.71        | 18.88        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 2.05         | 18.48        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 17.01        | 18.36        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 17.15        | 18.36        |

|        |            |     |      |     |        |       |       |
|--------|------------|-----|------|-----|--------|-------|-------|
| SISO B | 802.11ax20 | 157 | 5785 | HE0 | FullBW | 14.91 | 18.80 |
| SISO B | 802.11ax20 | 165 | 5825 | HE0 | FullBW | 16.12 | 18.88 |
| SISO B | 802.11ax40 | 151 | 5755 | HE0 | FullBW | 35.09 | 37.60 |
| SISO B | 802.11ax40 | 151 | 5755 | HE0 | 242/61 | 16.57 | 18.96 |
| SISO B | 802.11ax40 | 159 | 5795 | HE0 | FullBW | 35.97 | 37.52 |
| SISO B | 802.11ax80 | 155 | 5775 | HE0 | FullBW | 71.4  | 76.80 |
| SISO B | 802.11ax80 | 155 | 5775 | HE0 | 484/65 | 35.43 | 37.44 |

| Antenna | Mode       | Channel | Freq [MHz] | Rate | RU config. | 6dB BW [MHz] | 99% BW [MHz] |
|---------|------------|---------|------------|------|------------|--------------|--------------|
| MIMO A  | 802.11n20  | 149     | 5745       | HT8  | NA         | 13.52        | 17.84        |
| MIMO A  | 802.11n20  | 157     | 5785       | HT8  | NA         | 15.06        | 17.84        |
| MIMO A  | 802.11n20  | 165     | 5825       | HT8  | NA         | 15.05        | 17.80        |
| MIMO A  | 802.11n40  | 151     | 5755       | HT8  | NA         | 34.99        | 36.24        |
| MIMO A  | 802.11n40  | 159     | 5795       | HT8  | NA         | 35.06        | 36.32        |
| MIMO A  | 802.11ac80 | 155     | 5775       | VHT0 | NA         | 75.10        | 75.12        |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 15.99        | 19.00        |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 2.03         | 18.44        |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 16.97        | 18.44        |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 106/53     | 17.10        | 18.40        |
| MIMO A  | 802.11ax20 | 157     | 5785       | HE0  | FullBW     | 15.16        | 18.96        |
| MIMO A  | 802.11ax20 | 165     | 5825       | HE0  | FullBW     | 16.38        | 18.96        |
| MIMO A  | 802.11ax40 | 151     | 5755       | HE0  | FullBW     | 35.04        | 37.60        |
| MIMO A  | 802.11ax40 | 151     | 5755       | HE0  | 242/61     | 17.00        | 18.88        |
| MIMO A  | 802.11ax40 | 159     | 5795       | HE0  | FullBW     | 35.09        | 37.52        |
| MIMO A  | 802.11ax80 | 155     | 5775       | HE0  | FullBW     | 75.13        | 76.68        |
| MIMO A  | 802.11ax80 | 155     | 5775       | HE0  | 484/65     | 35.17        | 37.44        |

| Antenna | Mode       | Channel | Freq [MHz] | Rate | RU config. | 6dB BW [MHz] | 99% BW [MHz] |
|---------|------------|---------|------------|------|------------|--------------|--------------|
| MIMO B  | 802.11n20  | 149     | 5745       | HT8  | NA         | 16.26        | 17.76        |
| MIMO B  | 802.11n20  | 157     | 5785       | HT8  | NA         | 16.28        | 17.84        |
| MIMO B  | 802.11n20  | 165     | 5825       | HT8  | NA         | 15.61        | 17.80        |
| MIMO B  | 802.11n40  | 151     | 5755       | HT8  | NA         | 35.10        | 36.08        |
| MIMO B  | 802.11n40  | 159     | 5795       | HT8  | NA         | 34.40        | 36.08        |
| MIMO B  | 802.11ac80 | 155     | 5775       | VHT0 | NA         | 75.10        | 75.00        |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 15.10        | 18.88        |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 17.00        | 18.76        |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 17.03        | 18.32        |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 106/53     | 17.13        | 18.36        |
| MIMO B  | 802.11ax20 | 157     | 5785       | HE0  | FullBW     | 13.83        | 18.96        |
| MIMO B  | 802.11ax20 | 165     | 5825       | HE0  | FullBW     | 15.12        | 18.96        |
| MIMO B  | 802.11ax40 | 151     | 5755       | HE0  | FullBW     | 35.01        | 37.52        |
| MIMO B  | 802.11ax40 | 151     | 5755       | HE0  | 242/61     | 15.67        | 18.80        |
| MIMO B  | 802.11ax40 | 159     | 5795       | HE0  | FullBW     | 35.02        | 37.52        |
| MIMO B  | 802.11ax80 | 155     | 5775       | HE0  | FullBW     | 73.87        | 76.68        |
| MIMO B  | 802.11ax80 | 155     | 5775       | HE0  | 484/65     | 35.17        | 37.32        |

Max Value

### Overlapped channels between U-NII-2C and U-NII-3

| Mode       | Channel | Frequency (MHz) | Antenna | Chain | 6dB BW [MHz] | 26dB BW UNII-3 [MHz] |
|------------|---------|-----------------|---------|-------|--------------|----------------------|
| 802.11n20  | 144     | 5720            | SISO    | A     | 3.37         | 6.78                 |
|            |         |                 |         | B     | 3.10         | 6.58                 |
|            |         |                 | MIMO    | A     | 3.37         | 6.73                 |
|            |         |                 |         | B     | 3.10         | 6.58                 |
| 802.11n40  | 142     | 5710            | SISO    | A     | 3.17         | 7.37                 |
|            |         |                 |         | B     | 3.18         | 7.01                 |
|            |         |                 | MIMO    | A     | 3.20         | 8.00                 |
|            |         |                 |         | B     | 3.21         | 7.00                 |
| 802.11ac80 | 138     | 5690            | SISO    | A     | 3.24         | 8.42                 |
|            |         |                 |         | B     | 3.21         | 7.47                 |
|            |         |                 | MIMO    | A     | 3.16         | 8.04                 |
|            |         |                 |         | B     | 3.30         | 7.09                 |
| 802.11ax20 | 144     | 5720            | SISO    | A     | 4.36         | 7.23                 |
|            |         |                 |         | B     | 3.99         | 6.48                 |
|            |         |                 | MIMO    | A     | 3.64         | 6.83                 |
|            |         |                 |         | B     | 3.87         | 6.78                 |
| 802.11ax40 | 142     | 5710            | SISO    | A     | 3.99         | 6.11                 |
|            |         |                 |         | B     | 3.94         | 6.19                 |
|            |         |                 | MIMO    | A     | 3.93         | 6.19                 |
|            |         |                 |         | B     | 4.07         | 6.11                 |
| 802.11ax80 | 138     | 5690            | SISO    | A     | 4.07         | 6.33                 |
|            |         |                 |         | B     | 4.03         | 6.71                 |
|            |         |                 | MIMO    | A     | 4.03         | 6.90                 |
|            |         |                 |         | B     | 3.34         | 6.14                 |

Max Value

Note, the 26dB bandwidth of the overlapped channels falling in U-NII-3 band is shown in the above table. These values were used to measure the maximum output power in the U-NII-3 band as specified in chapter B.2.2.

**See Section B.2.5, B.2.6, B.2.7, and Section B.2.8 for the screenshot results.**

## B.2.2 Power Limits. Maximum output power & Maximum power spectral Density

### Test limits

| FCC part          | RSS clause                | Limits                                                                                                                                                                                                                 |
|-------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.407<br>(a) (3) | RSS-247<br>Clause 6.2.4.1 | For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band |

### Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to section E) 2) e) (Method SA-2 Alternative) of FCC KDB 789033 D02

The maximum power spectral density (PSD) was measured using the method according to section F) (Method SA-2 Alternative) of FCC KDB 789033 D02

In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power. The declared maximum antenna gain is +5dBi.

The conducted setup shown in section *Test & System Description* was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyser through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 789033 D02, the power is computed based on the portion of the emission bandwidth (26dB) contained within that band. This rule is only applicable for those channels marked as overlapped.

## Results tables

### Duty cycle

| Mode        | Rate  | Antenna | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|-------------|-------|---------|----------------------------|--------------------------|----------------|
| 802.11a20   | 6Mbps | SISO A  | 2.08                       | 2.14                     | 96.95%         |
|             |       | SISO B  | 2.08                       | 2.14                     | 96.95%         |
| 802.11n20   | HT0   | SISO A  | 3.97                       | 4.03                     | 98.60%         |
|             |       | SISO B  | 3.97                       | 4.03                     | 98.60%         |
|             | HT8   | MIMO A  | 3.97                       | 4.03                     | 98.51%         |
|             |       | MIMO B  | 3.97                       | 4.03                     | 98.51%         |
| 802.11ax20  | HE0   | SISO A  | 3.95                       | 4.01                     | 98.48%         |
|             |       | SISO B  | 3.95                       | 4.01                     | 98.48%         |
|             |       | MIMO A  | 3.95                       | 4.01                     | 98.54%         |
|             |       | MIMO B  | 3.95                       | 4.01                     | 98.54%         |
| 802.11n40   | HT0   | SISO A  | 3.94                       | 4.02                     | 98.01%         |
|             |       | SISO B  | 3.94                       | 4.02                     | 98.01%         |
|             | HT8   | MIMO A  | 3.93                       | 4.02                     | 97.82%         |
|             |       | MIMO B  | 3.93                       | 4.02                     | 97.82%         |
| 802.11ax40  | HE0   | SISO A  | 3.93                       | 4.00                     | 98.32%         |
|             |       | SISO B  | 3.93                       | 4.00                     | 98.32%         |
|             |       | MIMO A  | 3.94                       | 4.01                     | 98.21%         |
|             |       | MIMO B  | 3.94                       | 4.01                     | 98.21%         |
| 802.11ac80  | VHT0  | SISO A  | 3.95                       | 4.01                     | 98.46%         |
|             |       | SISO B  | 3.95                       | 4.01                     | 98.46%         |
|             |       | MIMO A  | 3.94                       | 4.01                     | 98.32%         |
|             |       | MIMO B  | 3.94                       | 4.01                     | 98.32%         |
| 802.11ax80  | HE0   | SISO A  | 3.94                       | 4.04                     | 97.62%         |
|             |       | SISO B  | 3.94                       | 4.04                     | 97.62%         |
|             |       | MIMO A  | 3.94                       | 4.01                     | 98.32%         |
|             |       | MIMO B  | 3.94                       | 4.01                     | 98.32%         |
| 802.11ac160 | VTH0  | SISO A  | 3.96                       | 4.01                     | 98.73%         |
|             |       | SISO B  | 3.96                       | 4.01                     | 98.73%         |
|             |       | MIMO A  | 2.25                       | 2.33                     | 96.84%         |
|             |       | MIMO B  | 2.25                       | 2.33                     | 96.84%         |
| 802.11ax160 | HE0   | SISO A  | 3.93                       | 4.01                     | 98.00%         |
|             |       | SISO B  | 3.93                       | 4.01                     | 98.00%         |
|             |       | MIMO A  | 2.25                       | 2.33                     | 96.84%         |
|             |       | MIMO B  | 2.25                       | 2.33                     | 96.84%         |

## Maximum output power – U-NII-3 Channels

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|---------|------------|---------|------------|-------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| SISO A  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 21.19                                | 21.32                                 | 26.32                | 135.52                        |
| SISO A  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 21.27                                | 21.40                                 | 26.40                | 138.04                        |
| SISO A  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 21.27                                | 21.40                                 | 26.40                | 138.04                        |
| SISO A  | 802.11n20  | 149     | 5745       | HT0   | NA         | 21.18                                | 21.18                                 | 26.18                | 131.22                        |
| SISO A  | 802.11n20  | 157     | 5785       | HT0   | NA         | 21.17                                | 21.17                                 | 26.17                | 130.92                        |
| SISO A  | 802.11n20  | 165     | 5825       | HT0   | NA         | 21.19                                | 21.19                                 | 26.19                | 131.52                        |
| SISO A  | 802.11n40  | 151     | 5755       | HT0   | NA         | 21.34                                | 21.34                                 | 26.34                | 136.14                        |
| SISO A  | 802.11n40  | 159     | 5795       | HT0   | NA         | 21.30                                | 21.30                                 | 26.30                | 134.90                        |
| SISO A  | 802.11ac80 | 155     | 5775       | VHT0  | NA         | 19.95                                | 19.95                                 | 24.95                | 98.86                         |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 21.32                                | 21.32                                 | 26.32                | 135.52                        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 20.94                                | 20.94                                 | 25.94                | 124.17                        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 20.99                                | 20.99                                 | 25.99                | 125.60                        |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 21.00                                | 21.00                                 | 26.00                | 125.89                        |
| SISO A  | 802.11ax20 | 157     | 5785       | HE0   | FullBW     | 21.19                                | 21.19                                 | 26.19                | 131.52                        |
| SISO A  | 802.11ax20 | 165     | 5825       | HE0   | FullBW     | 21.37                                | 21.37                                 | 26.37                | 137.09                        |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | FullBW     | 21.08                                | 21.08                                 | 26.08                | 128.23                        |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | 242/61     | 20.79                                | 20.79                                 | 25.79                | 119.95                        |
| SISO A  | 802.11ax40 | 159     | 5795       | HE0   | FullBW     | 21.07                                | 21.07                                 | 26.07                | 127.94                        |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | FullBW     | 19.95                                | 20.05                                 | 25.05                | 101.16                        |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | 484/65     | 20.56                                | 20.66                                 | 25.66                | 116.41                        |

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|---------|------------|---------|------------|-------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| SISO B  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 21.07                                | 21.20                                 | 26.20                | 131.83                        |
| SISO B  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 21.10                                | 21.23                                 | 26.23                | 132.74                        |
| SISO B  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 21.13                                | 21.26                                 | 26.26                | 133.66                        |
| SISO B  | 802.11n20  | 149     | 5745       | HT0   | NA         | 20.98                                | 20.98                                 | 25.98                | 125.31                        |
| SISO B  | 802.11n20  | 157     | 5785       | HT0   | NA         | 20.94                                | 20.94                                 | 25.94                | 124.17                        |
| SISO B  | 802.11n20  | 165     | 5825       | HT0   | NA         | 21.02                                | 21.02                                 | 26.02                | 126.47                        |
| SISO B  | 802.11n40  | 151     | 5755       | HT0   | NA         | 21.15                                | 21.15                                 | 26.15                | 130.32                        |
| SISO B  | 802.11n40  | 159     | 5795       | HT0   | NA         | 21.02                                | 21.02                                 | 26.02                | 126.47                        |
| SISO B  | 802.11ac80 | 155     | 5775       | VHT0  | NA         | 19.87                                | 19.87                                 | 24.87                | 97.05                         |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 21.02                                | 21.02                                 | 26.02                | 126.47                        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 20.62                                | 20.62                                 | 25.62                | 115.35                        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 20.69                                | 20.69                                 | 25.69                | 117.22                        |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 20.81                                | 20.81                                 | 25.81                | 120.50                        |
| SISO B  | 802.11ax20 | 157     | 5785       | HE0   | FullBW     | 20.98                                | 20.98                                 | 25.98                | 125.31                        |
| SISO B  | 802.11ax20 | 165     | 5825       | HE0   | FullBW     | 21.09                                | 21.09                                 | 26.09                | 128.53                        |
| SISO B  | 802.11ax40 | 151     | 5755       | HE0   | FullBW     | 20.85                                | 20.85                                 | 25.85                | 121.62                        |
| SISO B  | 802.11ax40 | 151     | 5755       | HE0   | 242/61     | 20.74                                | 20.74                                 | 25.74                | 118.58                        |
| SISO B  | 802.11ax40 | 159     | 5795       | HE0   | FullBW     | 20.90                                | 20.90                                 | 25.90                | 123.03                        |
| SISO B  | 802.11ax80 | 155     | 5775       | HE0   | FullBW     | 19.85                                | 19.95                                 | 24.95                | 98.86                         |
| SISO B  | 802.11ax80 | 155     | 5775       | HE0   | 484/65     | 20.17                                | 20.27                                 | 25.27                | 106.41                        |

| Antenna | Mode       | Channel | Freq [MHz] | Rate | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|---------|------------|---------|------------|------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| MIMO A  | 802.11n20  | 149     | 5745       | HT8  | NA         | 21.18                                | 21.18                                 | 26.18                | 131.22                        |
| MIMO A  | 802.11n20  | 157     | 5785       | HT8  | NA         | 21.23                                | 21.23                                 | 26.23                | 132.74                        |
| MIMO A  | 802.11n20  | 165     | 5825       | HT8  | NA         | 21.26                                | 21.26                                 | 26.26                | 133.66                        |
| MIMO A  | 802.11n40  | 151     | 5755       | HT8  | NA         | 21.50                                | 21.60                                 | 26.60                | 144.54                        |
| MIMO A  | 802.11n40  | 159     | 5795       | HT8  | NA         | 21.38                                | 21.48                                 | 26.48                | 140.60                        |
| MIMO A  | 802.11ac80 | 155     | 5775       | VHT0 | NA         | 19.47                                | 19.47                                 | 24.47                | 88.51                         |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 21.35                                | 21.35                                 | 26.35                | 136.46                        |

|        |            |     |      |     |        |       |       |       |        |
|--------|------------|-----|------|-----|--------|-------|-------|-------|--------|
| MIMO A | 802.11ax20 | 149 | 5745 | HE0 | 26/0   | 18.46 | 18.46 | 23.46 | 70.15  |
| MIMO A | 802.11ax20 | 149 | 5745 | HE0 | 52/37  | 18.16 | 18.16 | 23.16 | 65.46  |
| MIMO A | 802.11ax20 | 149 | 5745 | HE0 | 106/53 | 18.19 | 18.19 | 23.19 | 65.92  |
| MIMO A | 802.11ax20 | 157 | 5785 | HE0 | FullBW | 21.22 | 21.22 | 26.22 | 132.43 |
| MIMO A | 802.11ax20 | 165 | 5825 | HE0 | FullBW | 21.41 | 21.41 | 26.41 | 138.36 |
| MIMO A | 802.11ax40 | 151 | 5755 | HE0 | FullBW | 21.21 | 21.21 | 26.21 | 132.13 |
| MIMO A | 802.11ax40 | 151 | 5755 | HE0 | 242/61 | 20.83 | 20.83 | 25.83 | 121.06 |
| MIMO A | 802.11ax40 | 159 | 5795 | HE0 | FullBW | 21.24 | 21.24 | 26.24 | 133.05 |
| MIMO A | 802.11ax80 | 155 | 5775 | HE0 | FullBW | 19.23 | 19.23 | 24.23 | 83.75  |
| MIMO A | 802.11ax80 | 155 | 5775 | HE0 | 484/65 | 20.09 | 20.09 | 25.09 | 102.09 |

| Antenna | Mode       | Channel | Freq [MHz] | Rate | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|---------|------------|---------|------------|------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| MIMO B  | 802.11n20  | 149     | 5745       | HT8  | NA         | 20.67                                | 20.67                                 | 25.67                | 116.68                        |
| MIMO B  | 802.11n20  | 157     | 5785       | HT8  | NA         | 20.70                                | 20.70                                 | 25.70                | 117.49                        |
| MIMO B  | 802.11n20  | 165     | 5825       | HT8  | NA         | 20.73                                | 20.73                                 | 25.73                | 118.30                        |
| MIMO B  | 802.11n40  | 151     | 5755       | HT8  | NA         | 20.90                                | 21.00                                 | 26.00                | 125.89                        |
| MIMO B  | 802.11n40  | 159     | 5795       | HT8  | NA         | 20.78                                | 20.88                                 | 25.88                | 122.46                        |
| MIMO B  | 802.11ac80 | 155     | 5775       | VHT0 | NA         | 19.05                                | 19.05                                 | 24.05                | 80.35                         |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 20.80                                | 20.80                                 | 25.80                | 120.23                        |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 17.71                                | 17.71                                 | 22.71                | 59.02                         |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 17.78                                | 17.78                                 | 22.78                | 59.98                         |
| MIMO B  | 802.11ax20 | 149     | 5745       | HE0  | 106/53     | 17.89                                | 17.89                                 | 22.89                | 61.52                         |
| MIMO B  | 802.11ax20 | 157     | 5785       | HE0  | FullBW     | 20.77                                | 20.77                                 | 25.77                | 119.40                        |
| MIMO B  | 802.11ax20 | 165     | 5825       | HE0  | FullBW     | 20.93                                | 20.93                                 | 25.93                | 123.88                        |
| MIMO B  | 802.11ax40 | 151     | 5755       | HE0  | FullBW     | 20.61                                | 20.61                                 | 25.61                | 115.08                        |
| MIMO B  | 802.11ax40 | 151     | 5755       | HE0  | 242/61     | 20.39                                | 20.39                                 | 25.39                | 109.40                        |
| MIMO B  | 802.11ax40 | 159     | 5795       | HE0  | FullBW     | 20.60                                | 20.60                                 | 25.60                | 114.82                        |
| MIMO B  | 802.11ax80 | 155     | 5775       | HE0  | FullBW     | 19.20                                | 19.20                                 | 24.20                | 83.18                         |
| MIMO B  | 802.11ax80 | 155     | 5775       | HE0  | 484/65     | 19.67                                | 19.67                                 | 24.67                | 92.68                         |

| Antenna      | Mode       | Channel | Freq [MHz] | Rate | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|--------------|------------|---------|------------|------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| Combined A+B | 802.11n20  | 149     | 5745       | HT8  | NA         | 23.94                                | 23.94                                 | 28.94                | 247.90                        |
| Combined A+B | 802.11n20  | 157     | 5785       | HT8  | NA         | 23.98                                | 23.98                                 | 28.98                | 250.23                        |
| Combined A+B | 802.11n20  | 165     | 5825       | HT8  | NA         | 24.01                                | 24.01                                 | 29.01                | 251.96                        |
| Combined A+B | 802.11n40  | 151     | 5755       | HT8  | NA         | 24.22                                | 24.32                                 | 29.32                | 270.44                        |
| Combined A+B | 802.11n40  | 159     | 5795       | HT8  | NA         | 24.10                                | 24.20                                 | 29.20                | 263.07                        |
| Combined A+B | 802.11ac80 | 155ac80 | 5775       | VHT0 | NA         | 22.28                                | 22.28                                 | 27.28                | 168.86                        |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 24.09                                | 24.09                                 | 29.09                | 256.68                        |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 21.11                                | 21.11                                 | 26.11                | 129.17                        |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 20.98                                | 20.98                                 | 25.98                | 125.44                        |

|              |             |          |      |     |        |       |       |       |        |
|--------------|-------------|----------|------|-----|--------|-------|-------|-------|--------|
| Combined A+B | 802.11ax 20 | 149      | 5745 | HE0 | 106/53 | 21.05 | 21.05 | 26.05 | 127.44 |
| Combined A+B | 802.11ax 20 | 157      | 5785 | HE0 | FullBW | 24.01 | 24.01 | 29.01 | 251.83 |
| Combined A+B | 802.11ax 20 | 165      | 5825 | HE0 | FullBW | 24.19 | 24.19 | 29.19 | 262.24 |
| Combined A+B | 802.11ax 40 | 151      | 5755 | HE0 | FullBW | 23.93 | 23.93 | 28.93 | 247.21 |
| Combined A+B | 802.11ax 40 | 151      | 5755 | HE0 | 242/61 | 23.63 | 23.63 | 28.63 | 230.46 |
| Combined A+B | 802.11ax 40 | 159      | 5795 | HE0 | FullBW | 23.94 | 23.94 | 28.94 | 247.86 |
| Combined A+B | 802.11ax 80 | 155ac8 0 | 5775 | HE0 | FullBW | 22.23 | 22.23 | 27.23 | 166.93 |
| Combined A+B | 802.11ax 80 | 155ac8 0 | 5775 | HE0 | 484/65 | 22.90 | 22.90 | 27.90 | 194.98 |

\* Maximum values are the duty cycle compensated values calculated from the average (measured)

Max Value

Min Value

## Maximum output power – Overlapped channels between U-NII-2C and U-NII-3

| Mode       | Channel | Freq (MHz) | Antenna  | Chain | Average Cond. Output Power UNII-3 [dBm] | Max.* Cond. Output Power UNII-3 [dBm] | Max.* EIRP UNII-3 [dBm] | Max.* Cond. Output Power UNII-3 [mW] |
|------------|---------|------------|----------|-------|-----------------------------------------|---------------------------------------|-------------------------|--------------------------------------|
| 802.11n20  | 144     | 5720       | SISO     | A     | 12.17                                   | 12.23                                 | 17.23                   | 16.71                                |
|            |         |            |          | B     | 12.48                                   | 12.54                                 | 17.54                   | 17.95                                |
|            |         |            | MIMO     | A     | 10.01                                   | 10.07                                 | 15.07                   | 10.17                                |
|            |         |            |          | B     | 9.99                                    | 10.05                                 | 15.05                   | 10.12                                |
|            |         |            | Combined | A+B   | 13.01                                   | 13.07                                 | 18.07                   | 20.29                                |
| 802.11n40  | 142     | 5710       | SISO     | A     | 8.51                                    | 8.57                                  | 13.57                   | 7.19                                 |
|            |         |            |          | B     | 8.60                                    | 8.66                                  | 13.66                   | 7.34                                 |
|            |         |            | MIMO     | A     | 8.48                                    | 8.54                                  | 13.54                   | 7.14                                 |
|            |         |            |          | B     | 8.81                                    | 8.87                                  | 13.87                   | 7.71                                 |
|            |         |            | Combined | A+B   | 11.66                                   | 11.72                                 | 16.72                   | 14.85                                |
| 802.11ac80 | 138     | 5690       | SISO     | A     | 3.68                                    | 3.74                                  | 8.74                    | 2.36                                 |
|            |         |            |          | B     | 4.54                                    | 4.60                                  | 9.60                    | 2.88                                 |
|            |         |            | MIMO     | A     | 3.60                                    | 3.66                                  | 8.66                    | 2.32                                 |
|            |         |            |          | B     | 4.45                                    | 4.51                                  | 9.51                    | 2.83                                 |
|            |         |            | Combined | A+B   | 7.06                                    | 7.12                                  | 12.12                   | 5.15                                 |
| 802.11ax20 | 144     | 5720       | SISO     | A     | 12.81                                   | 12.87                                 | 17.87                   | 19.36                                |
|            |         |            |          | B     | 12.96                                   | 13.02                                 | 18.02                   | 20.04                                |
|            |         |            | MIMO     | A     | 11.13                                   | 11.19                                 | 16.19                   | 13.15                                |
|            |         |            |          | B     | 11.12                                   | 11.18                                 | 16.18                   | 13.12                                |
|            |         |            | Combined | A+B   | 14.14                                   | 14.19                                 | 19.19                   | 26.26                                |
| 802.11ax40 | 142     | 5710       | SISO     | A     | 9.15                                    | 9.21                                  | 14.21                   | 8.33                                 |
|            |         |            |          | B     | 8.75                                    | 8.81                                  | 13.81                   | 7.60                                 |
|            |         |            | MIMO     | A     | 8.34                                    | 8.40                                  | 13.40                   | 6.92                                 |
|            |         |            |          | B     | 8.50                                    | 8.56                                  | 13.56                   | 7.17                                 |
|            |         |            | Combined | A+B   | 11.43                                   | 11.49                                 | 16.49                   | 14.09                                |
| 802.11ax80 | 138     | 5690       | SISO     | A     | 4.68                                    | 4.74                                  | 9.74                    | 2.98                                 |
|            |         |            |          | B     | 5.10                                    | 5.16                                  | 10.16                   | 3.28                                 |
|            |         |            | MIMO     | A     | 5.28                                    | 5.34                                  | 10.34                   | 3.42                                 |
|            |         |            |          | B     | 4.83                                    | 4.89                                  | 9.89                    | 3.08                                 |
|            |         |            | Combined | A+B   | 8.07                                    | 8.13                                  | 13.13                   | 6.50                                 |

\* Maximum values are the duty cycle compensated values calculated from the average (measured)

Max Value

Min Value

## Maximum Power Spectral Density (PSD) – U-NII-3 channels

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | Average conducted PSD [dBm/500KHz] | Maximum* conducted PSD [dBm/500KHz] |
|---------|------------|---------|------------|-------|------------|------------------------------------|-------------------------------------|
| SISO A  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 7.47                               | 7.6                                 |
| SISO A  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 7.52                               | 7.65                                |
| SISO A  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 7.46                               | 7.59                                |
| SISO A  | 802.11n20  | 149     | 5745       | HT0   | NA         | 7.09                               | 7.09                                |
| SISO A  | 802.11n20  | 157     | 5785       | HT0   | NA         | 7.17                               | 7.17                                |
| SISO A  | 802.11n20  | 165     | 5825       | HT0   | NA         | 7.1                                | 7.1                                 |
| SISO A  | 802.11n40  | 151     | 5755       | HT0   | NA         | 3.87                               | 3.87                                |
| SISO A  | 802.11n40  | 159     | 5795       | HT0   | NA         | 3.77                               | 3.77                                |
| SISO A  | 802.11ac80 | 155     | 5775       | VHT0  | NA         | -0.61                              | -0.61                               |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 7.1                                | 7.1                                 |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 14.99                              | 14.99                               |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 11.7                               | 11.7                                |
| SISO A  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 8.98                               | 8.98                                |
| SISO A  | 802.11ax20 | 157     | 5785       | HE0   | FullBW     | 6.97                               | 6.97                                |
| SISO A  | 802.11ax20 | 165     | 5825       | HE0   | FullBW     | 7.05                               | 7.05                                |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | FullBW     | 3.49                               | 3.49                                |
| SISO A  | 802.11ax40 | 151     | 5755       | HE0   | 242/61     | 6.81                               | 6.81                                |
| SISO A  | 802.11ax40 | 159     | 5795       | HE0   | FullBW     | 3.43                               | 3.43                                |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | FullBW     | -0.75                              | -0.65                               |
| SISO A  | 802.11ax80 | 155     | 5775       | HE0   | 484/65     | 3.27                               | 3.37                                |

| Antenna | Mode       | Channel | Freq [MHz] | Rate  | RU config. | Average conducted PSD [dBm/500KHz] | Maximum* conducted PSD [dBm/500KHz] |
|---------|------------|---------|------------|-------|------------|------------------------------------|-------------------------------------|
| SISO B  | 802.11a20  | 149     | 5745       | 6Mbps | NA         | 7.18                               | 7.31                                |
| SISO B  | 802.11a20  | 157     | 5785       | 6Mbps | NA         | 7.24                               | 7.37                                |
| SISO B  | 802.11a20  | 165     | 5825       | 6Mbps | NA         | 7.29                               | 7.42                                |
| SISO B  | 802.11n20  | 149     | 5745       | HT0   | NA         | 6.89                               | 6.89                                |
| SISO B  | 802.11n20  | 157     | 5785       | HT0   | NA         | 6.72                               | 6.72                                |
| SISO B  | 802.11n20  | 165     | 5825       | HT0   | NA         | 6.87                               | 6.87                                |
| SISO B  | 802.11n40  | 151     | 5755       | HT0   | NA         | 3.66                               | 3.66                                |
| SISO B  | 802.11n40  | 159     | 5795       | HT0   | NA         | 3.59                               | 3.59                                |
| SISO B  | 802.11ac80 | 155     | 5775       | VHT0  | NA         | -0.71                              | -0.71                               |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | FullBW     | 6.78                               | 6.78                                |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 26/0       | 14.44                              | 14.44                               |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 52/37      | 11.40                              | 11.4                                |
| SISO B  | 802.11ax20 | 149     | 5745       | HE0   | 106/53     | 8.64                               | 8.64                                |
| SISO B  | 802.11ax20 | 157     | 5785       | HE0   | FullBW     | 6.70                               | 6.70                                |
| SISO B  | 802.11ax20 | 165     | 5825       | HE0   | FullBW     | 6.86                               | 6.86                                |
| SISO B  | 802.11ax40 | 151     | 5755       | HE0   | FullBW     | 3.23                               | 3.23                                |
| SISO B  | 802.11ax40 | 151     | 5755       | HE0   | 242/61     | 6.74                               | 6.74                                |
| SISO B  | 802.11ax40 | 159     | 5795       | HE0   | FullBW     | 3.18                               | 3.18                                |
| SISO B  | 802.11ax80 | 155     | 5775       | HE0   | FullBW     | -0.85                              | -0.75                               |
| SISO B  | 802.11ax80 | 155     | 5775       | HE0   | 484/65     | 5.69                               | 5.79                                |

| Antenna | Mode       | Channel | Freq [MHz] | Rate | RU config. | Average conducted PSD [dBm/500KHz] | Maximum* conducted PSD [dBm/500KHz] |
|---------|------------|---------|------------|------|------------|------------------------------------|-------------------------------------|
| MIMO A  | 802.11n20  | 149     | 5745       | HT8  | NA         | 7.20                               | 7.20                                |
| MIMO A  | 802.11n20  | 157     | 5785       | HT8  | NA         | 7.20                               | 7.20                                |
| MIMO A  | 802.11n20  | 165     | 5825       | HT8  | NA         | 7.23                               | 7.23                                |
| MIMO A  | 802.11n40  | 151     | 5755       | HT8  | NA         | 4.05                               | 4.15                                |
| MIMO A  | 802.11n40  | 159     | 5795       | HT8  | NA         | 3.94                               | 4.04                                |
| MIMO A  | 802.11ac80 | 155     | 5775       | VHT0 | NA         | -1.05                              | -1.05                               |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 7.13                               | 7.13                                |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 12.29                              | 12.29                               |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 8.84                               | 8.84                                |
| MIMO A  | 802.11ax20 | 149     | 5745       | HE0  | 106/53     | 6.10                               | 6.10                                |
| MIMO A  | 802.11ax20 | 157     | 5785       | HE0  | FullBW     | 7.02                               | 7.02                                |
| MIMO A  | 802.11ax20 | 165     | 5825       | HE0  | FullBW     | 7.18                               | 7.18                                |
| MIMO A  | 802.11ax40 | 151     | 5755       | HE0  | FullBW     | 3.55                               | 3.55                                |
| MIMO A  | 802.11ax40 | 151     | 5755       | HE0  | 242/61     | 6.91                               | 6.91                                |
| MIMO A  | 802.11ax40 | 159     | 5795       | HE0  | FullBW     | 3.62                               | 3.62                                |

|        |            |     |      |     |        |       |       |
|--------|------------|-----|------|-----|--------|-------|-------|
| MIMO A | 802.11ax80 | 155 | 5775 | HE0 | FullBW | -1.37 | -1.37 |
| MIMO A | 802.11ax80 | 155 | 5775 | HE0 | 484/65 | 5.55  | 5.55  |

| Antenna | Mode       | Channel | Freq<br>[MHz] | Rate | RU<br>config. | Average conducted PSD<br>[dBm/500KHz] | Maximum* conducted PSD<br>[dBm/500KHz] |
|---------|------------|---------|---------------|------|---------------|---------------------------------------|----------------------------------------|
| MIMO B  | 802.11n20  | 149     | 5745          | HT8  | NA            | 6.64                                  | 6.64                                   |
| MIMO B  | 802.11n20  | 157     | 5785          | HT8  | NA            | 6.66                                  | 6.66                                   |
| MIMO B  | 802.11n20  | 165     | 5825          | HT8  | NA            | 6.69                                  | 6.69                                   |
| MIMO B  | 802.11n40  | 151     | 5755          | HT8  | NA            | 3.4                                   | 3.5                                    |
| MIMO B  | 802.11n40  | 159     | 5795          | HT8  | NA            | 3.3                                   | 3.4                                    |
| MIMO B  | 802.11ac80 | 155     | 5775          | VHT0 | NA            | -1.51                                 | -1.51                                  |
| MIMO B  | 802.11ax20 | 149     | 5745          | HE0  | FullBW        | 6.61                                  | 6.61                                   |
| MIMO B  | 802.11ax20 | 149     | 5745          | HE0  | 26/0          | 11.39                                 | 11.39                                  |
| MIMO B  | 802.11ax20 | 149     | 5745          | HE0  | 52/37         | 8.52                                  | 8.52                                   |
| MIMO B  | 802.11ax20 | 149     | 5745          | HE0  | 106/53        | 5.79                                  | 5.79                                   |
| MIMO B  | 802.11ax20 | 157     | 5785          | HE0  | FullBW        | 6.51                                  | 6.51                                   |
| MIMO B  | 802.11ax20 | 165     | 5825          | HE0  | FullBW        | 6.62                                  | 6.62                                   |
| MIMO B  | 802.11ax40 | 151     | 5755          | HE0  | FullBW        | 2.97                                  | 2.97                                   |
| MIMO B  | 802.11ax40 | 151     | 5755          | HE0  | 242/61        | 6.36                                  | 6.36                                   |
| MIMO B  | 802.11ax40 | 159     | 5795          | HE0  | FullBW        | 2.96                                  | 2.96                                   |
| MIMO B  | 802.11ax80 | 155     | 5775          | HE0  | FullBW        | -1.44                                 | -1.44                                  |
| MIMO B  | 802.11ax80 | 155     | 5775          | HE0  | 484/65        | 5.23                                  | 5.23                                   |

| Antenna      | Mode       | Channel | Freq [MHz] | Rate | RU config. | Combined Maximum* conducted PSD [dBm/500KHz] |
|--------------|------------|---------|------------|------|------------|----------------------------------------------|
| Combined A+B | 802.11n20  | 149     | 5745       | HT8  | NA         | 9.94                                         |
| Combined A+B | 802.11n20  | 157     | 5785       | HT8  | NA         | 9.95                                         |
| Combined A+B | 802.11n20  | 165     | 5825       | HT8  | NA         | 9.98                                         |
| Combined A+B | 802.11n40  | 151     | 5755       | HT8  | NA         | 6.85                                         |
| Combined A+B | 802.11n40  | 159     | 5795       | HT8  | NA         | 6.74                                         |
| Combined A+B | 802.11ac80 | 155     | 5775       | VHT0 | NA         | 1.74                                         |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | FullBW     | 9.89                                         |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | 26/0       | 14.87                                        |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | 52/37      | 11.69                                        |
| Combined A+B | 802.11ax20 | 149     | 5745       | HE0  | 106/53     | 8.96                                         |
| Combined A+B | 802.11ax20 | 157     | 5785       | HE0  | FullBW     | 9.78                                         |
| Combined A+B | 802.11ax20 | 165     | 5825       | HE0  | FullBW     | 9.92                                         |
| Combined A+B | 802.11ax40 | 151     | 5755       | HE0  | FullBW     | 6.28                                         |
| Combined A+B | 802.11ax40 | 151     | 5755       | HE0  | 242/61     | 9.65                                         |
| Combined A+B | 802.11ax40 | 159     | 5795       | HE0  | FullBW     | 6.31                                         |
| Combined A+B | 802.11ax80 | 155     | 5775       | HE0  | FullBW     | 1.61                                         |
| Combined A+B | 802.11ax80 | 155     | 5775       | HE0  | 484/65     | 8.40                                         |

\* Maximum values are the duty cycle compensated values calculated from the average (measured)

Max Value

### Maximum Power Spectral Density (PSD) – Overlapped channels between U-NII-2C and U-NII-3

| Mode       | Channel | Freq (MHz) | Antenna  | Chain | Average conducted PSD UNII-3 [dBm/500KHz] | Maximum* conducted PSD UNII-3 [dBm/500KHz] |
|------------|---------|------------|----------|-------|-------------------------------------------|--------------------------------------------|
| 802.11n20  | 144     | 5720       | SISO     | A     | 5.34                                      | 5.40                                       |
|            |         |            |          | B     | 4.72                                      | 4.78                                       |
|            |         |            | MIMO     | A     | 5.78                                      | 5.84                                       |
|            |         |            |          | B     | 4.62                                      | 4.68                                       |
|            |         |            | Combined | A+B   | 8.25                                      | 8.31                                       |
| 802.11n40  | 142     | 5710       | SISO     | A     | 1.75                                      | 1.81                                       |
|            |         |            |          | B     | 0.95                                      | 1.01                                       |
|            |         |            | MIMO     | A     | 3.95                                      | 4.01                                       |
|            |         |            |          | B     | 0.99                                      | 1.05                                       |
|            |         |            | Combined | A+B   | 0.89                                      | 0.95                                       |
| 802.11ac80 | 138     | 5690       | SISO     | A     | -2.99                                     | -2.93                                      |
|            |         |            |          | B     | -3.33                                     | -3.27                                      |
|            |         |            | MIMO     | A     | -3.06                                     | -3.00                                      |
|            |         |            |          | B     | -3.41                                     | -3.35                                      |
|            |         |            | Combined | A+B   | -0.22                                     | -0.16                                      |
| 802.11ax20 | 144     | 5720       | SISO     | A     | 5.98                                      | 6.04                                       |
|            |         |            |          | B     | 5.34                                      | 5.40                                       |
|            |         |            | MIMO     | A     | 5.73                                      | 5.79                                       |
|            |         |            |          | B     | 5.40                                      | 5.46                                       |
|            |         |            | Combined | A+B   | 8.58                                      | 8.64                                       |
| 802.11ax40 | 142     | 5710       | SISO     | A     | 0.52                                      | 0.58                                       |
|            |         |            |          | B     | -0.09                                     | -0.03                                      |
|            |         |            | MIMO     | A     | 2.85                                      | 2.91                                       |
|            |         |            |          | B     | -0.52                                     | -0.46                                      |
|            |         |            | Combined | A+B   | 0.17                                      | 0.23                                       |
| 802.11ax80 | 138     | 5690       | SISO     | A     | -3.73                                     | -3.67                                      |
|            |         |            |          | B     | -3.60                                     | -3.54                                      |
|            |         |            | MIMO     | A     | -3.18                                     | -3.12                                      |
|            |         |            |          | B     | -3.75                                     | -3.69                                      |
|            |         |            | Combined | A+B   | -0.45                                     | -0.39                                      |

\* Maximum values are the duty cycle compensated values calculated from the average (measured)

Max Value

See Section B.2.9, B.2.10, B.2.11, and Section B.2.12 for the screenshot results

**B.2.3 Undesirable emission limits : out of band (Conducted)**Test limits

| FCC part          | RSS clause                | Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.407 (b)<br>(4) | RSS-247 Clause<br>6.2.4.2 | For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the Band Edge domain. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss and the declared Antenna Gain.

The declared maximum antenna gain is +5dBi.

**See Section B.2.13 for the screenshot results.**

## B.2.4 Radiated spurious emission

### Standard references

| FCC part         | RSS clause             | Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-------------------------|--------------------|-------|-----|----|---|--------|-----|------|---|---------|-----|----|---|-----------|-----|----|---|
| 15.407 (b) (4)   | RSS-247 Clause 6.2.4.2 | For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 15.209           | RSS-GEN A1, Clause 8.9 | <p>Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):</p> <table><tr><th>Freq Range (MHz)</th><th>Field Strength (μV/m)</th><th>Field Strength (dBμV/m)</th><th>Meas. Distance (m)</th></tr><tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr></table> <p>The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> <p>For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</p> | Freq Range (MHz)   | Field Strength (μV/m) | Field Strength (dBμV/m) | Meas. Distance (m) | 30-88 | 100 | 40 | 3 | 88-216 | 150 | 43.5 | 3 | 216-960 | 200 | 46 | 3 | Above 960 | 500 | 54 | 3 |
| Freq Range (MHz) | Field Strength (μV/m)  | Field Strength (dBμV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Meas. Distance (m) |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 30-88            | 100                    | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                  |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 88-216           | 150                    | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                  |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 216-960          | 200                    | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                  |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| Above 960        | 500                    | 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                  |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |

### Test procedure

The radiated setups shown in section *Test & System Description* were used to measure the radiated spurious emissions.

Depending of the frequency range and bands being tested, different antennas and filters were used.

The final measurement is done by varying the antenna height from 1 m to 4 m, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration selected from the chapter B.1 and using the low, middle and high channels.

For 802.11ax20, 802.11ax40 and 802.11ax80 modes, the worst case spurious emission result among the low, mid and high channels tested separately on Chain A and B is used to perform the test on MIMO mode (Chain A+B).

For 802.11n20, 802.11n40 and 802.11ac80 modes the worst channel found among all 802.11ax modes mentioned above is chosen to perform the test in Chain A, B ,and MIMO (Chain A+B).

## Test Results

### 30 MHz – 1 GHz, Radiated spurious emissions

#### Radiated Spurious – All modes

| Frequency | QuasiPeak | Limit  | Margin | Polar |
|-----------|-----------|--------|--------|-------|
| MHz       | dBμV/m    | dBμV/m | dBμV/m | ---   |
| 265.3     | 29.7      | 46.0   | 16.3   | H     |
| 408.0     | 36.1      | 46.0   | 9.9    | H     |

Note 1: The detected spurious signals do not depend on either the operating channel or the modulation mode.

### 1 GHz – 40 GHz, 802.11a, 6Mbps, Chain A

#### Radiated Spurious – CH149

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3376.5    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3376.5    | 58.9    | ---     | 74.0   | 15.1   | H     |
| 17997.6   | ---     | 38.5    | 54.0   | 15.5   | H     |
| 17985.0   | 49.8    | ---     | 74.0   | 24.2   | V     |
| 39882.2   | 59.1    | ---     | 68.2   | 9.1    | V     |

#### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3358.0    | ---     | 46.1    | 54.0   | 7.9    | H     |
| 3358.0    | 59.0    | ---     | 74.0   | 15.0   | H     |
| 17068.6   | 49.7    | ---     | 74.0   | 24.3   | V     |
| 17069.1   | ---     | 37.1    | 54.0   | 16.9   | H     |
| 39659.5   | 58.5    | ---     | 68.2   | 9.7    | V     |

### Radiated Spurious – CH165

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3326.0    | ---     | 46.3    | 54.0   | 7.7    | V     |
| 3326.0    | 59.8    | ---     | 74.0   | 14.2   | H     |
| 11652.9   | 49.4    | ---     | 74.0   | 24.6   | H     |
| 11653.4   | ---     | 39.1    | 54.0   | 14.9   | H     |
| 39871.0   | 59.0    | ---     | 68.2   | 9.2    | H     |

### 1 GHz – 40 GHz, 802.11a, 6Mbps, Chain B

### Radiated Spurious – CH149

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3173.5    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3173.5    | 59.7    | ---     | 74.0   | 14.3   | V     |
| 16441.2   | ---     | 37.5    | 54.0   | 16.5   | V     |
| 16441.2   | 49.4    | ---     | 74.0   | 24.6   | V     |
| 39854.5   | 58.7    | ---     | 68.2   | 9.5    | V     |

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3294.0    | ---     | 46.3    | 54.0   | 7.7    | H     |
| 3294.0    | 59.3    | ---     | 74.0   | 14.7   | V     |
| 17988.4   | 49.3    | ---     | 74.0   | 24.7   | V     |
| 17997.1   | ---     | 38.7    | 54.0   | 15.3   | V     |
| 39848.5   | 59.3    | ---     | 68.2   | 8.9    | H     |

### Radiated Spurious – CH165

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3193.5    | ---     | 46.6    | 54.0   | 7.4    | H     |
| 3193.5    | 59.3    | ---     | 74.0   | 14.7   | H     |
| 17998.1   | 50.4    | ---     | 74.0   | 23.6   | H     |
| 17997.6   | ---     | 38.3    | 54.0   | 15.7   | V     |
| 39849.2   | 59.1    | ---     | 68.2   | 9.1    | H     |

### 1 GHz – 40 GHz, 802.11n20, HT0, Chain A

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 2964.5    | ---     | 46.2    | 54.0   | 7.8    | H     |
| 2964.5    | 59.1    | ---     | 74.0   | 14.9   | V     |
| 17995.2   | 49.9    | ---     | 74.0   | 24.1   | V     |
| 17997.6   | ---     | 38.6    | 54.0   | 15.4   | H     |
| 39859.8   | 59.5    | ---     | 68.2   | 8.5    | V     |

### 1 GHz – 40 GHz, 802.11n20, HT0, Chain B

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3136.0    | 59.7    | ---     | 74.0   | 14.3   | V     |
| 3136.5    | ---     | 47.0    | 54.0   | 7.0    | H     |
| 17103.4   | 49.2    | ---     | 74.0   | 24.8   | V     |
| 17103.4   | ---     | 37.7    | 54.0   | 16.3   | V     |
| 39851.5   | 60.1    | ---     | 68.2   | 8.1    | H     |

### 1 GHz – 40 GHz, 802.11n20, HT8, Chain A+B

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3190.0    | ---     | 46.3    | 54.0   | 7.7    | V     |
| 3190.0    | 59.4    | ---     | 74.0   | 14.6   | V     |
| 17987.9   | 49.0    | ---     | 74.0   | 25.0   | H     |
| 17997.6   | ---     | 38.5    | 54.0   | 15.5   | H     |
| 27697.0   | 50.2    | ---     | 68.2   | 18.0   | H     |

### 1 GHz – 40 GHz, 802.11ax20, HE0, Chain A

### Radiated Spurious – CH149

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3225.0    | ---     | 46.4    | 54.0   | 7.6    | V     |
| 3225.0    | 59.6    | ---     | 74.0   | 14.4   | V     |
| 11474.0   | 52.0    | ---     | 74.0   | 22.0   | V     |
| 11473.1   | ---     | 42.0    | 54.0   | 12.0   | V     |
| 39861.2   | 57.5    | ---     | 68.2   | 10.7   | H     |

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3192.0    | ---     | 46.5    | 54.0   | 7.5    | V     |
| 3192.0    | 59.2    | ---     | 74.0   | 14.7   | V     |
| 17997.6   | ---     | 38.8    | 54.0   | 15.2   | H     |
| 17987.9   | 49.4    | ---     | 74.0   | 24.6   | V     |
| 39845.5   | 60.1    | ---     | 68.2   | 8.1    | V     |

### Radiated Spurious – CH165

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3188.0    | ---     | 46.6    | 54.0   | 7.4    | V     |
| 3188.0    | 59.5    | ---     | 74.0   | 14.5   | H     |
| 11633.0   | ---     | 43.1    | 54.0   | 10.9   | H     |
| 11634.0   | 53.9    | ---     | 74.0   | 20.1   | H     |
| 39859.0   | 59.3    | ---     | 68.2   | 8.9    | H     |

### 30 MHz – 40 GHz, 802.11ax20, HE0, Chain B

### Radiated Spurious – CH149

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3207.5    | ---     | 46.4    | 54.0   | 7.6    | V     |
| 3207.5    | 59.9    | ---     | 74.0   | 14.1   | H     |
| 11472.6   | 47.1    | ---     | 74.0   | 26.9   | V     |
| 11473.5   | ---     | 37.0    | 54.0   | 17.0   | V     |
| 39896.5   | 59.2    | ---     | 68.2   | 9.0    | V     |

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3174.5    | ---     | 46.5    | 54.0   | 7.5    | H     |
| 3174.5    | 59.1    | ---     | 74.0   | 14.9   | H     |
| 11553.3   | 45.8    | ---     | 74.0   | 28.2   | H     |
| 11553.3   | ---     | 36.2    | 54.0   | 17.8   | V     |
| 17328.2   | 46.1    | ---     | 74.0   | 27.9   | H     |
| 17330.1   | ---     | 36.6    | 54.0   | 17.4   | V     |
| 39854.5   | 59.1    | ---     | 68.2   | 9.1    | V     |

### Radiated Spurious – CH165

| Frequency | MaxPeak | Average | Limit | Margin | Polar |
|-----------|---------|---------|-------|--------|-------|
|-----------|---------|---------|-------|--------|-------|

| MHz     | dBμV/m | dBμV/m | dBμV/m | dB   | --- |
|---------|--------|--------|--------|------|-----|
| 3388.0  | ---    | 46.5   | 54.0   | 7.5  | V   |
| 3388.0  | 59.5   | ---    | 74.0   | 14.5 | H   |
| 17997.6 | ---    | 38.3   | 54.0   | 15.7 | H   |
| 17988.9 | 49.6   | ---    | 74.0   | 24.4 | V   |
| 39832.8 | 59.2   | ---    | 68.2   | 9.0  | H   |

## 1 GHz – 40 GHz, 802.11ax20, HE0, Chain A+B

### Radiated Spurious – CH157

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3372.0    | ---     | 45.9    | 54.0   | 8.1    | H     |
| 3372.0    | 58.8    | ---     | 74.0   | 15.2   | H     |
| 11552.8   | 47.0    | ---     | 74.0   | 27.0   | V     |
| 11552.8   | ---     | 36.8    | 54.0   | 17.2   | V     |
| 39847.8   | ---     | 47.7    | 54.0   | 6.3    | V     |
| 39847.8   | 58.0    | ---     | 74.0   | 16.0   | H     |

## 1 GHz – 40 GHz, 802.11n40, HT0, Chain A

### Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 1896.5    | ---     | 43.0    | 54.0   | 11.0   | V     |
| 1896.5    | 57.0    | ---     | 74.0   | 17.0   | V     |
| 17988.4   | 49.4    | ---     | 74.0   | 24.6   | V     |
| 17997.6   | ---     | 38.0    | 54.0   | 16.0   | V     |
| 39829.0   | ---     | 46.6    | 54.0   | 7.4    | V     |
| 39829.0   | 59.2    | ---     | 74.0   | 14.8   | H     |

## 1 GHz – 40 GHz, 802.11n40, HT0, Chain B

### Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 2703.0    | ---     | 45.2    | 54.0   | 8.8    | H     |
| 2703.0    | 59.3    | ---     | 74.0   | 14.7   | H     |
| 11603.1   | ---     | 34.7    | 54.0   | 19.3   | V     |
| 11603.1   | 48.5    | ---     | 74.0   | 25.5   | V     |
| 16406.9   | 49.4    | ---     | 74.0   | 24.6   | V     |
| 16407.9   | ---     | 37.0    | 54.0   | 17.0   | V     |
| 39865.8   | ---     | 47.0    | 54.0   | 7.0    | H     |
| 39865.8   | 59.0    | ---     | 74.0   | 15.0   | V     |

# 1 GHz – 40 GHz, 802.11n40, HT8, Chain A+B

## Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3280.0    | ---     | 46.1    | 54.0   | 7.9    | H     |
| 3280.0    | 59.1    | ---     | 74.0   | 14.9   | V     |
| 17120.8   | ---     | 37.3    | 54.0   | 16.7   | V     |
| 17121.3   | 49.6    | ---     | 74.0   | 24.4   | H     |
| 39033.2   | 55.6    | ---     | 68.2   | 12.6   | V     |

# 1 GHz – 40 GHz, 802.11ax40, HE0, Chain A

## Radiated Spurious – CH151

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3281.0    | ---     | 46.4    | 54.0   | 7.6    | V     |
| 3281.0    | 59.8    | ---     | 74.0   | 14.2   | H     |
| 11473.5   | ---     | 41.6    | 54.0   | 12.4   | V     |
| 11475.0   | 50.7    | ---     | 74.0   | 23.3   | V     |
| 39870.2   | ---     | 47.4    | 54.0   | 6.6    | V     |
| 39870.2   | 57.4    | ---     | 74.0   | 16.6   | H     |

### Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3227.0    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3227.0    | 59.6    | ---     | 74.0   | 14.4   | H     |
| 17331.1   | ---     | 37.3    | 54.0   | 16.7   | V     |
| 17331.5   | 46.2    | ---     | 74.0   | 27.8   | V     |
| 39850.8   | ---     | 47.4    | 54.0   | 6.6    | H     |
| 39850.8   | 57.7    | ---     | 74.0   | 16.3   | H     |

### 1 GHz – 40 GHz, 802.11ax40, HE0, Chain B

### Radiated Spurious – CH151

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3330.5    | ---     | 46.4    | 54.0   | 7.6    | H     |
| 3330.5    | 59.6    | ---     | 74.0   | 14.4   | H     |
| 17211.2   | ---     | 36.5    | 54.0   | 17.5   | V     |
| 39841.0   | ---     | 47.0    | 54.0   | 7.0    | V     |
| 39841.0   | 59.6    | ---     | 74.0   | 14.4   | V     |

### Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3315.5    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3315.5    | 60.1    | ---     | 74.0   | 13.9   | H     |
| 17331.1   | ---     | 36.1    | 54.0   | 17.9   | V     |
| 17331.1   | 45.1    | ---     | 74.0   | 28.9   | V     |
| 39848.5   | ---     | 47.1    | 54.0   | 6.9    | V     |
| 39848.5   | 58.5    | ---     | 74.0   | 15.5   | V     |

## 1 GHz – 40 GHz, 802.11ax40, HE0, Chain A+B

### Radiated Spurious – CH159

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3249.0    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3249.0    | 59.3    | ---     | 74.0   | 14.7   | V     |
| 11553.8   | ---     | 36.3    | 54.0   | 17.7   | V     |
| 17331.1   | ---     | 44.4    | 54.0   | 9.6    | V     |
| 17331.1   | 54.3    | ---     | 74.0   | 19.7   | V     |
| 39855.2   | ---     | 47.5    | 54.0   | 6.5    | V     |
| 39855.2   | 58.5    | ---     | 74.0   | 15.5   | H     |

## 1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A

### Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3138.0    | ---     | 46.5    | 54.0   | 7.5    | H     |
| 3138.0    | 59.6    | ---     | 74.0   | 14.4   | H     |
| 17049.3   | ---     | 36.8    | 54.0   | 17.2   | V     |
| 17051.2   | 49.5    | ---     | 74.0   | 24.5   | V     |
| 39844.8   | 59.7    | ---     | 68.2   | 8.5    | H     |

# 1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B

## Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3131.0    | ---     | 46.2    | 54.0   | 7.8    | V     |
| 3131.0    | 59.0    | ---     | 74.0   | 15.0   | V     |
| 16435.0   | 48.9    | ---     | 74.0   | 25.1   | H     |
| 16435.0   | ---     | 36.9    | 54.0   | 17.1   | V     |
| 39845.5   | 59.0    | ---     | 68.2   | 9.2    | V     |

# 1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A+B

## Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3367.0    | ---     | 45.8    | 54.0   | 8.2    | V     |
| 3367.0    | 59.1    | ---     | 74.0   | 14.9   | H     |
| 16435.5   | ---     | 37.4    | 54.0   | 16.6   | V     |
| 16435.5   | 49.5    | ---     | 74.0   | 24.5   | V     |
| 39046.0   | 57.2    | ---     | 68.2   | 11.0   | H     |

## 1 GHz – 40 GHz, 802.11ax80, HE0, Chain A

### Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3215.0    | ---     | 46.3    | 54.0   | 7.7    | V     |
| 3215.0    | 59.4    | ---     | 74.0   | 14.6   | H     |
| 7180.6    | 46.0    | ---     | 74.0   | 28.0   | V     |
| 7180.6    | ---     | 36.1    | 54.0   | 17.9   | H     |
| 11474.5   | ---     | 41.6    | 54.0   | 12.4   | H     |
| 11474.5   | 52.2    | ---     | 74.0   | 21.8   | V     |
| 39847.8   | 58.8    | ---     | 68.2   | 9.4    | H     |

## 1 GHz – 40 GHz, 802.11ax80, HE0, Chain B

### Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3106.5    | ---     | 46.2    | 54.0   | 7.8    | H     |
| 3106.5    | 59.3    | ---     | 74.0   | 14.7   | V     |
| 11473.1   | 45.5    | ---     | 74.0   | 28.5   | V     |
| 11473.1   | ---     | 36.2    | 54.0   | 17.8   | V     |
| 39852.2   | 59.6    | ---     | 68.2   | 8.6    | V     |

## 1 GHz – 40 GHz, 802.11ax80, HE0, Chain A+B

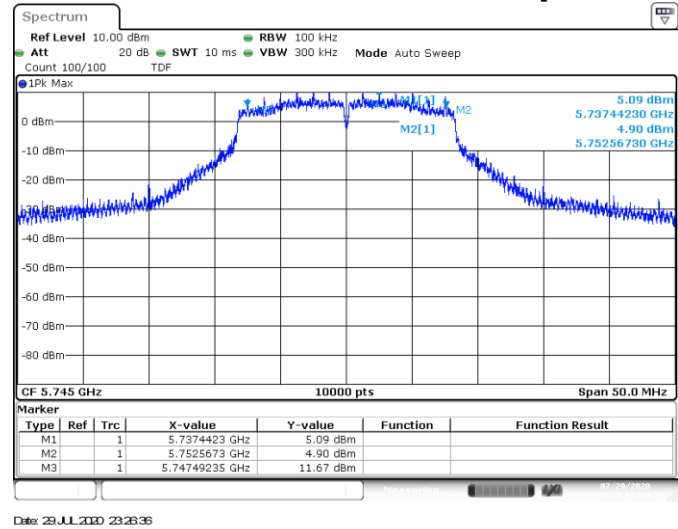
### Radiated Spurious – CH155

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3062.5    | 58.9    | ---     | 74.0   | 15.1   | H     |
| 3062.5    | ---     | 45.6    | 54.0   | 8.6    | V     |
| 11474.0   | ---     | 43.1    | 54.0   | 10.9   | V     |
| 11475.5   | 52.9    | ---     | 74.0   | 21.1   | V     |
| 22948.4   | 46.5    | ---     | 74.0   | 27.5   | V     |
| 22948.4   | ---     | 37.0    | 54.0   | 17.0   | V     |

Test Results Screenshot

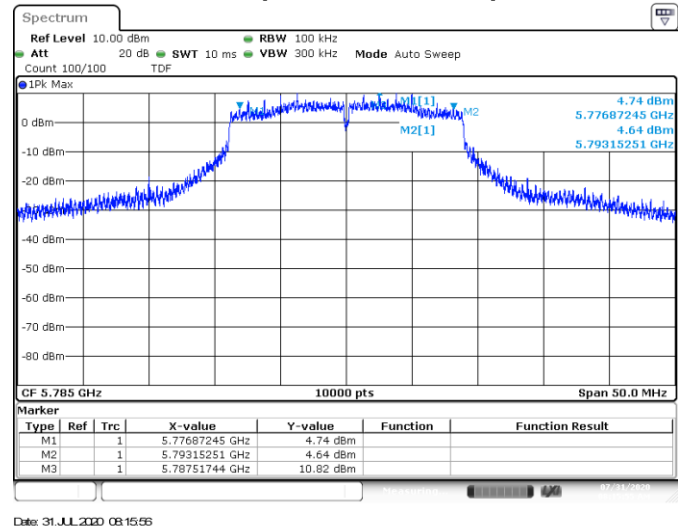
B.2.5 6dB Bandwidth

SISO-A, 802.11a, 6Mbps



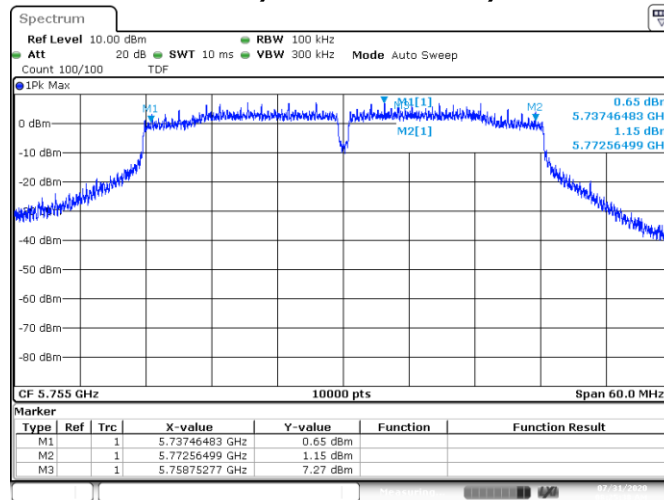
Channel 149

MIMO-B, 802.11n20, HT8



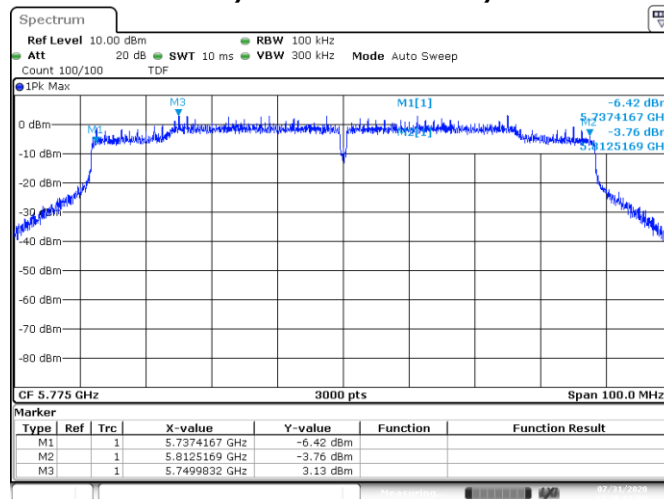
Channel 157

## MIMO-B, 802.11n40, HT8



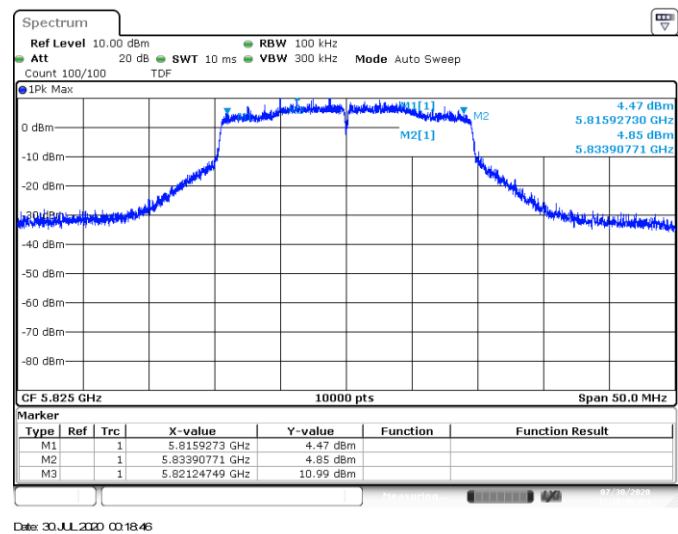
Channel 151

## MIMO-B, 802.11ac80, VHT0



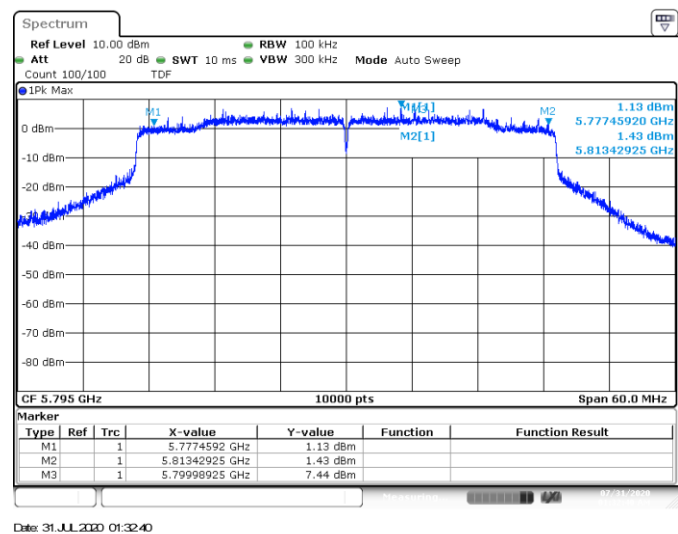
Channel 155

# SISO-A, 802.11ax20, HE0



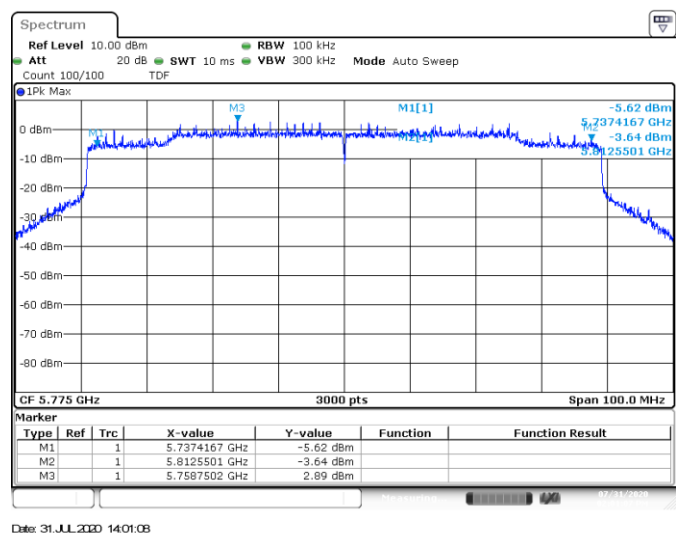
Channel 165

# SISO-B, 802.11ax40, HE0



Channel 159

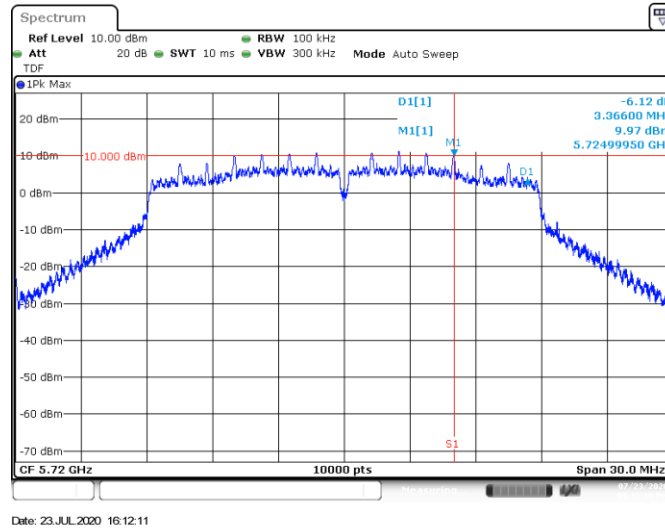
MIMO-A, 802.11ac80, HE0



Channel 155

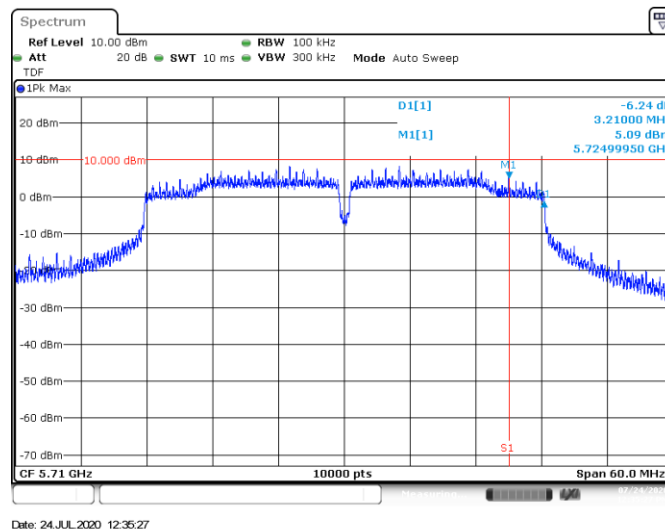
## B.2.6 6dB Bandwidth (Overlapped Channel)

### SISO-A, 802.11n20, HT0



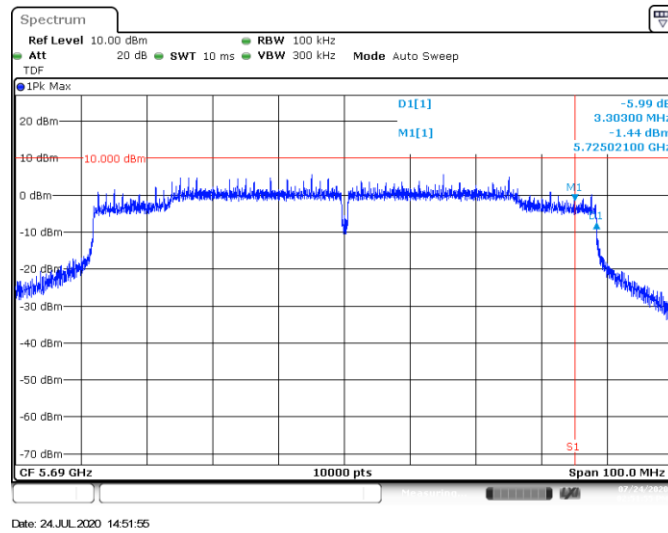
Channel 144 (Overlapped Channel)

### MIMO-B, 802.11n40, HT8



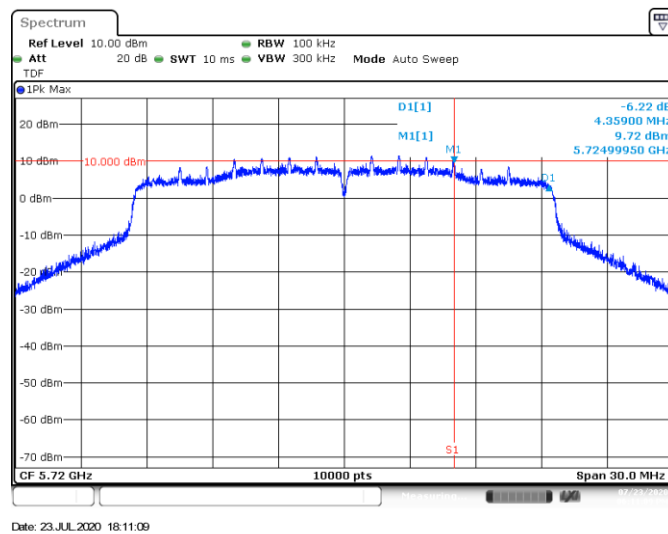
Channel 142 (Overlapped Channel)

## MIMO-B, 802.11ac80, VHT0



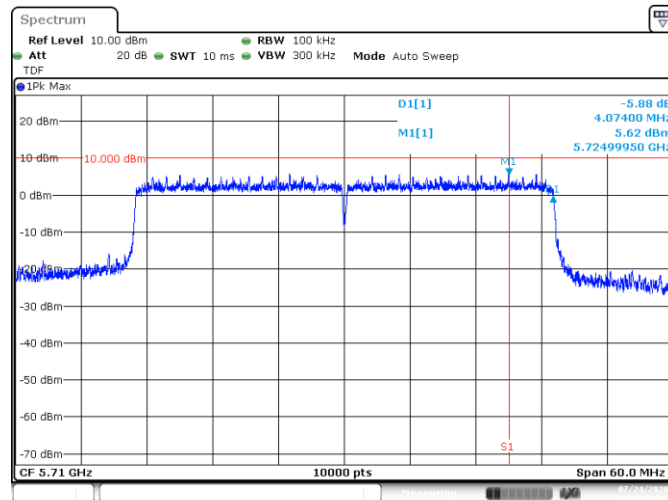
Channel 138 (Overlapped Channel)

## SISO-A, 802.11ax20, HE0



Channel 144 (Overlapped Channel)

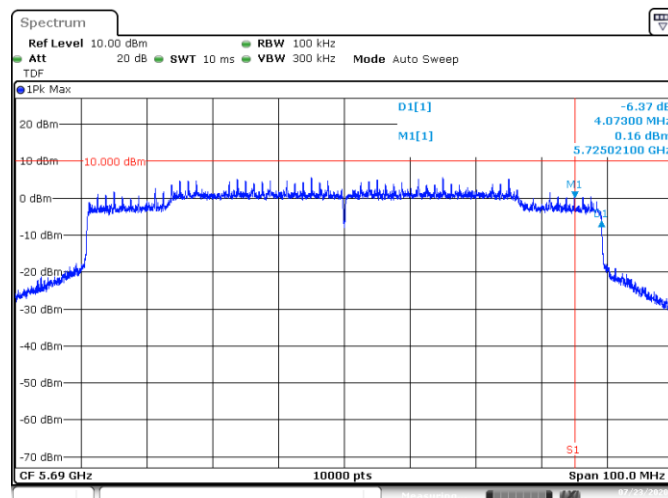
## MIMO-B, 802.11ax40, HE0



Date: 24.JUL.2020 14:32:02

Channel 142 (Overlapped Channel)

## SISO-A, 802.11ac80, HE0

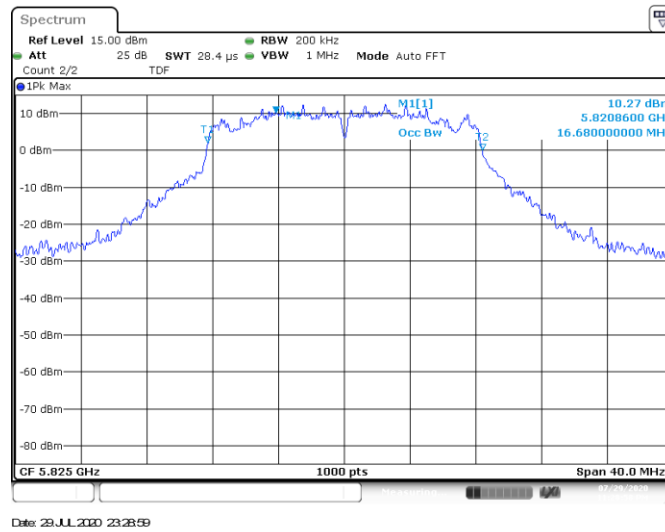


Date: 23.JUL.2020 17:51:32

Channel 138 (Overlapped Channel)

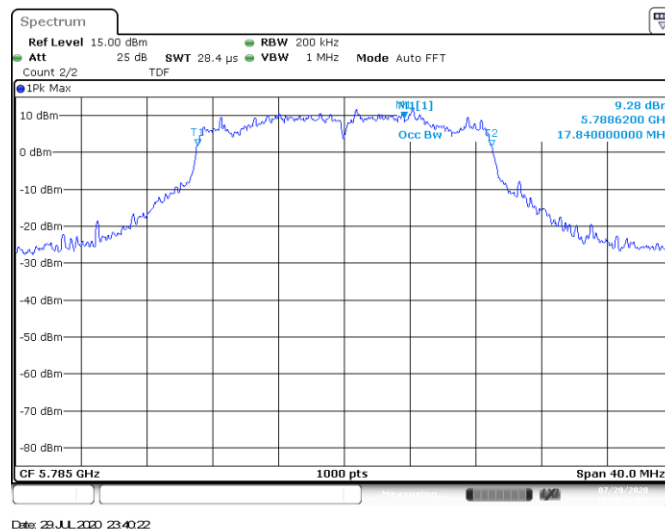
## B.2.7 99% Bandwidth

### SISO-A, 802.11a, 6Mbps



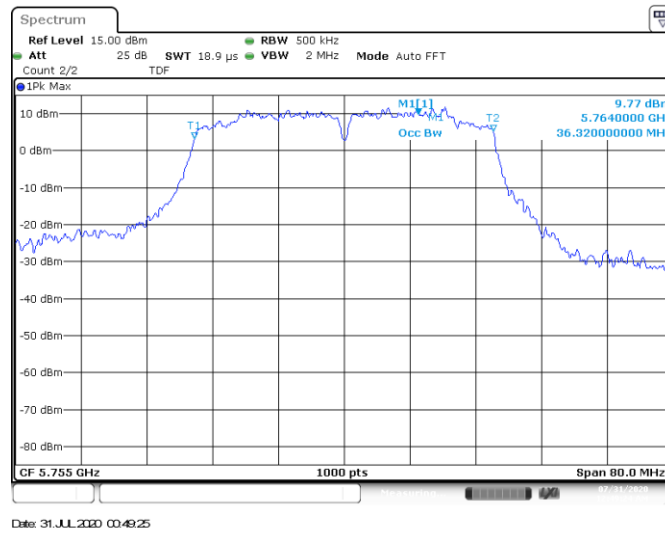
Channel 165

### SISO-A, 802.11n20, HT0



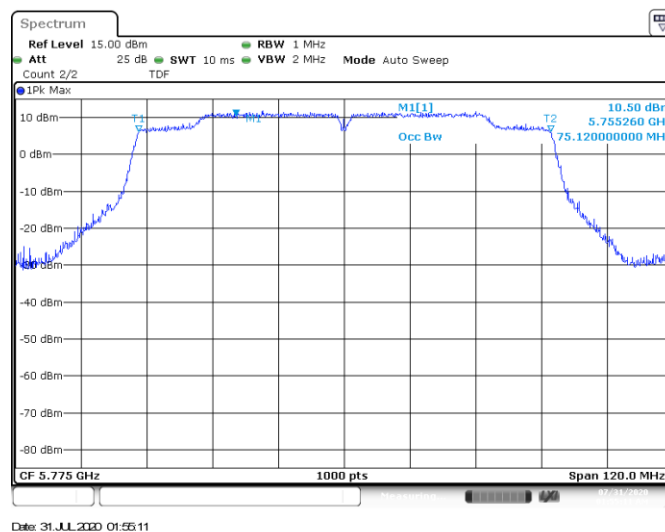
Channel 157

## SISO-B, 802.11n40, HT0



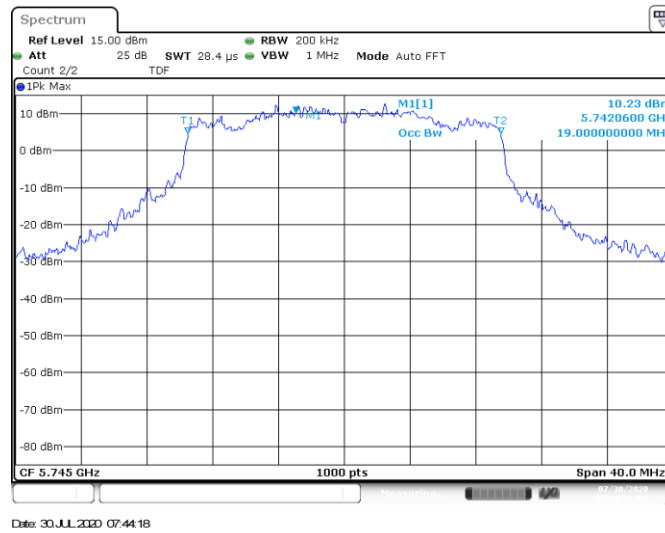
Channel 151

## SISO-B, 802.11ac80, VHT0



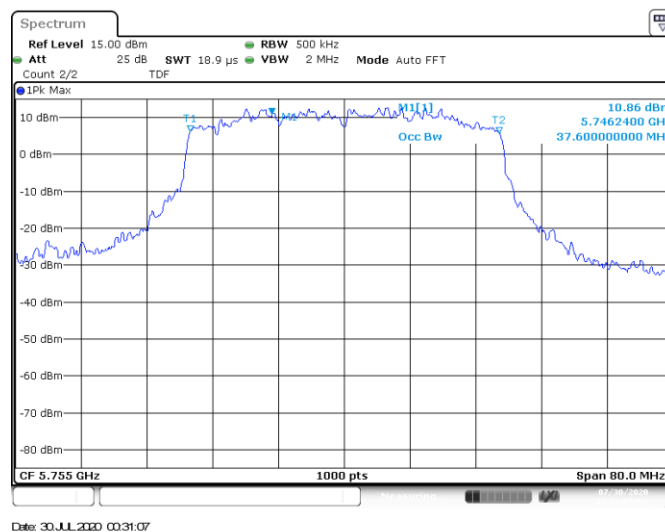
Channel 155

## MIMO-A, 802.11ax20, HE0



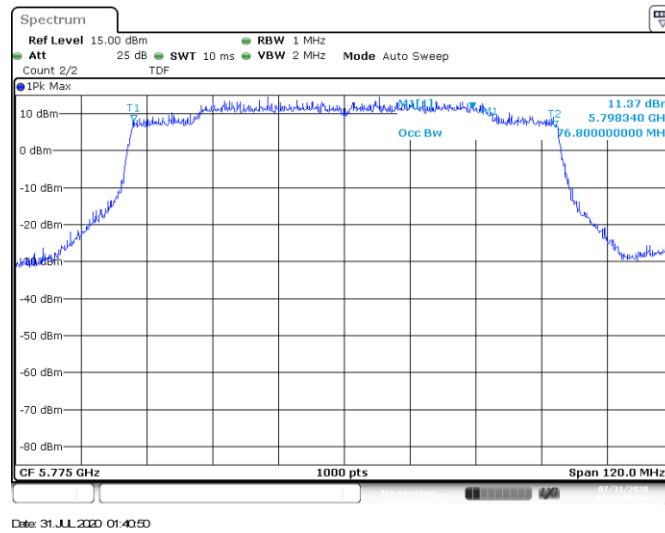
Channel 149

## SISO-A, 802.11ax40, HE0



Channel 151

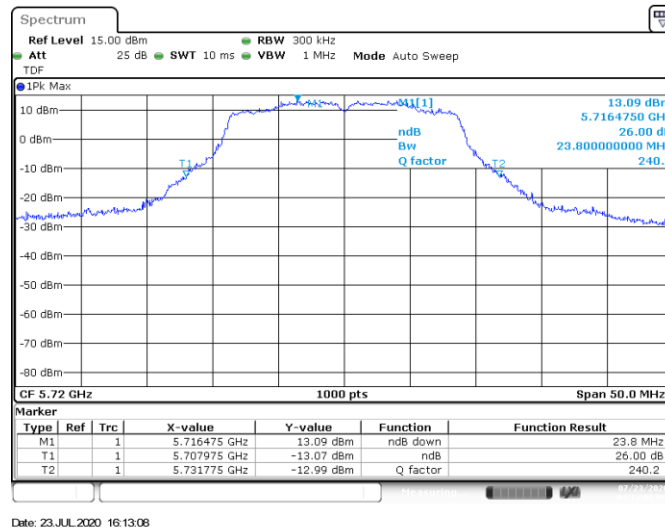
## SISO-B, 802.11ac80, HE0



Channel 155

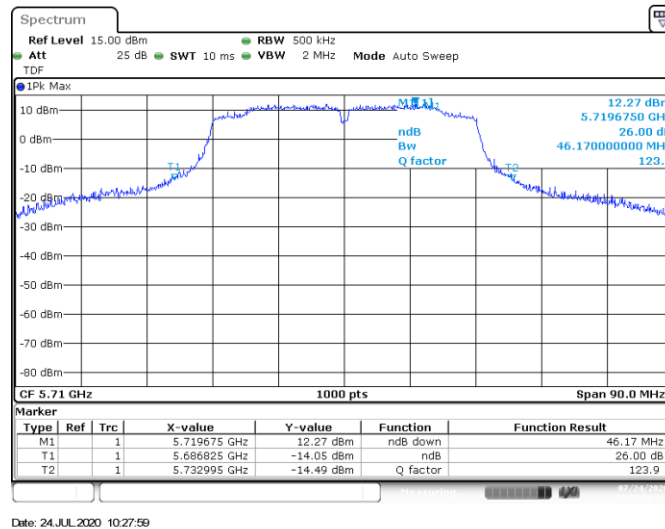
## B.2.8 26dB Bandwidth (Overlapped Channel)

### SISO-A, 802.11n20, HT0



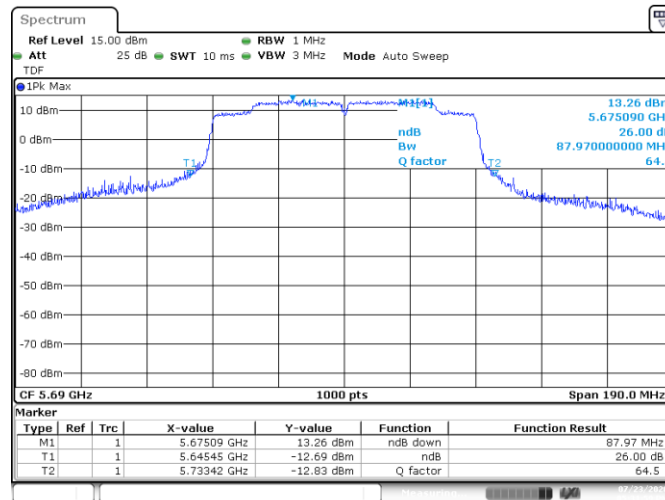
Channel 144 (Overlapped Channel)

### MIMO-A, 802.11n40, HT8



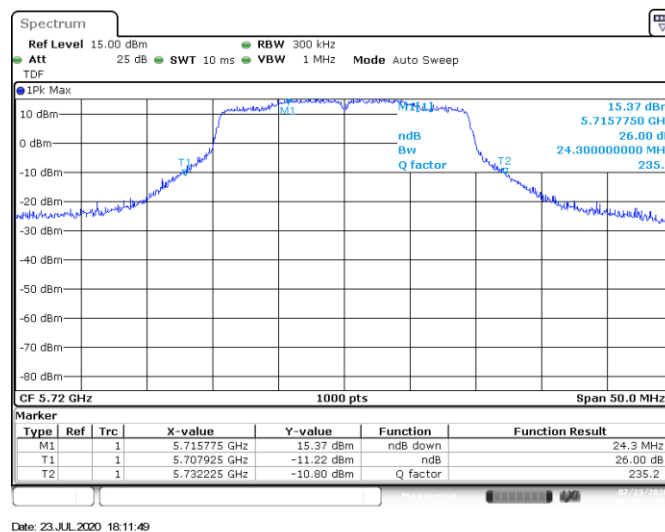
Channel 142 (Overlapped Channel)

## SISO-A, 802.11ac80, VHT0



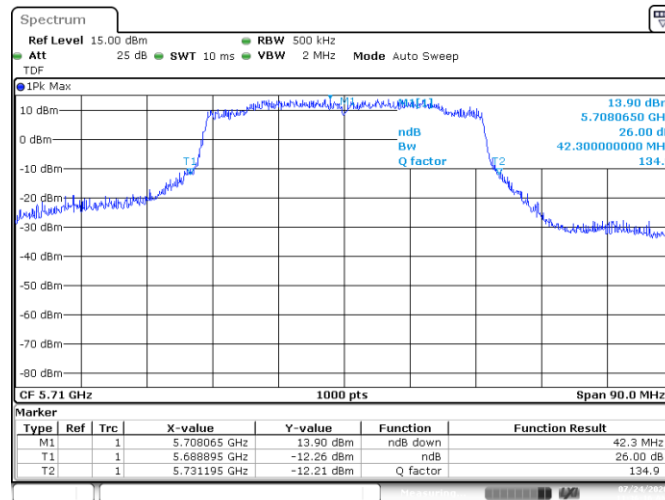
Channel 138 (Overlapped Channel)

## SISO-A, 802.11ax20, HE0



Channel 144 (Overlapped Channel)

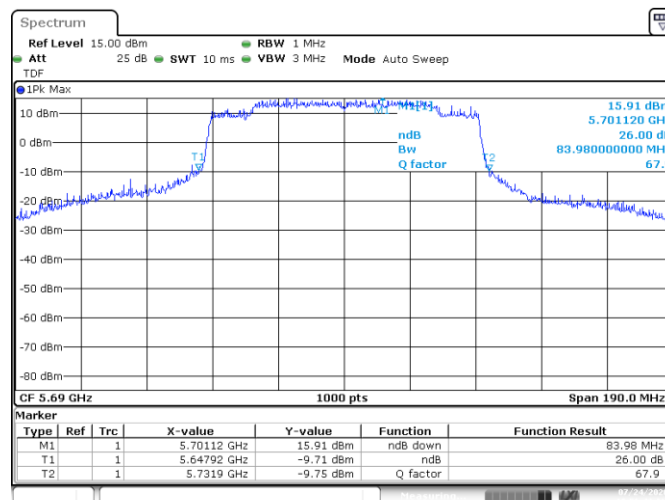
## SISO-B, 802.11ax40, HE0



Date: 24.JUL.2020 11:36:16

Channel 142 (Overlapped Channel)

## MIMO-A, 802.11ac80, HE0

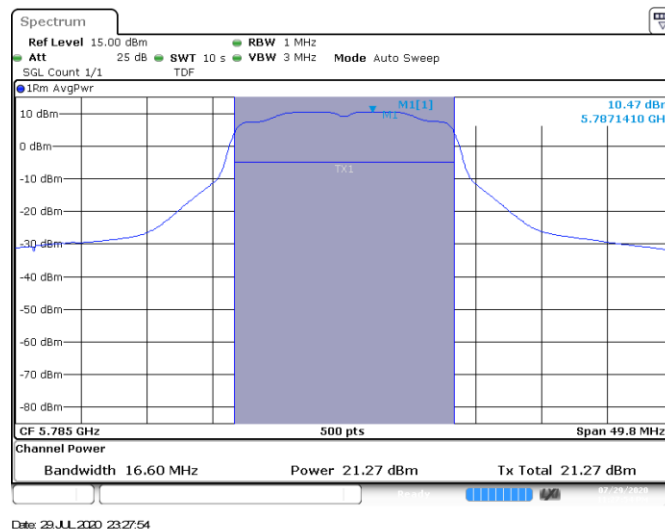


Date: 24.JUL.2020 10:56:42

Channel 138 (Overlapped Channel)

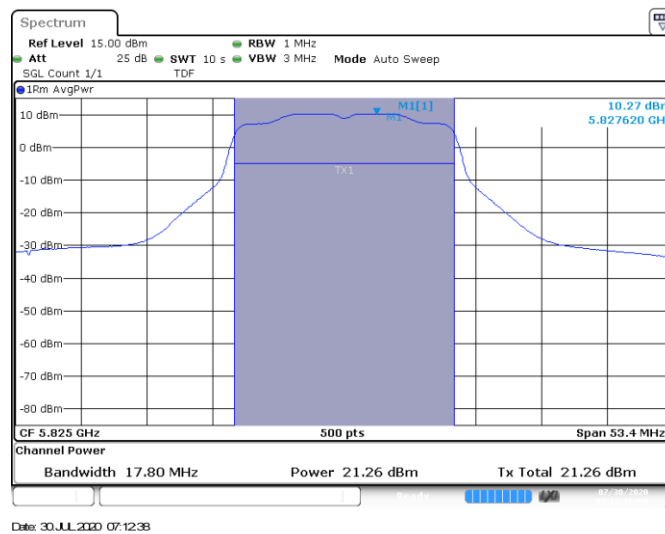
## B.2.9 Maximum output power

### SISO-A, 802.11a, 6Mbps



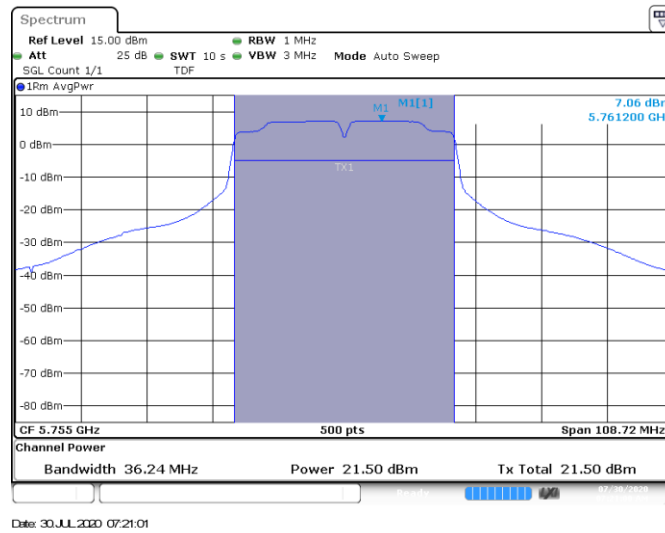
Channel 157

### MIMO-A, 802.11n20, HT8



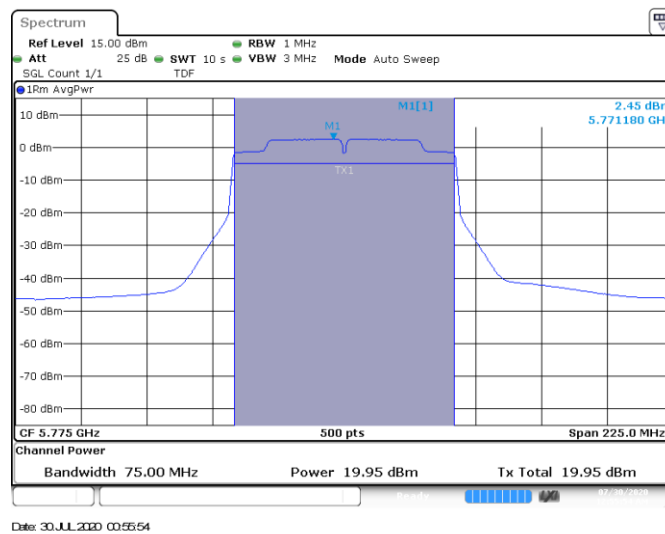
Channel 165

## MIMO-A, 802.11n40, HT8



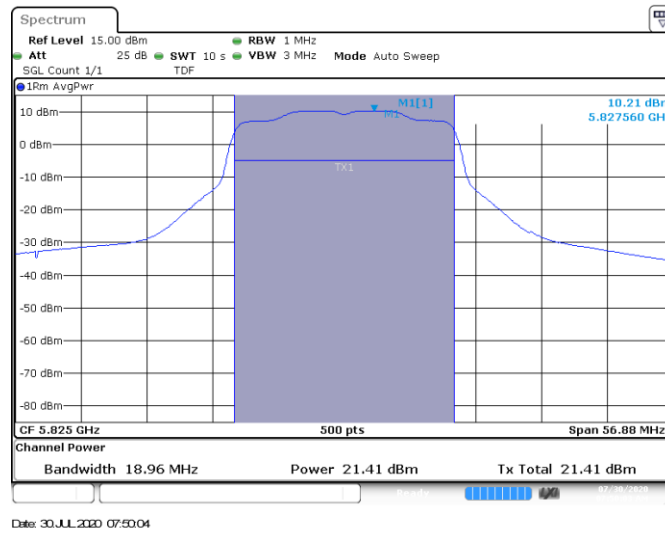
Channel 151

## SISO-A, 802.11ac80, VHT0



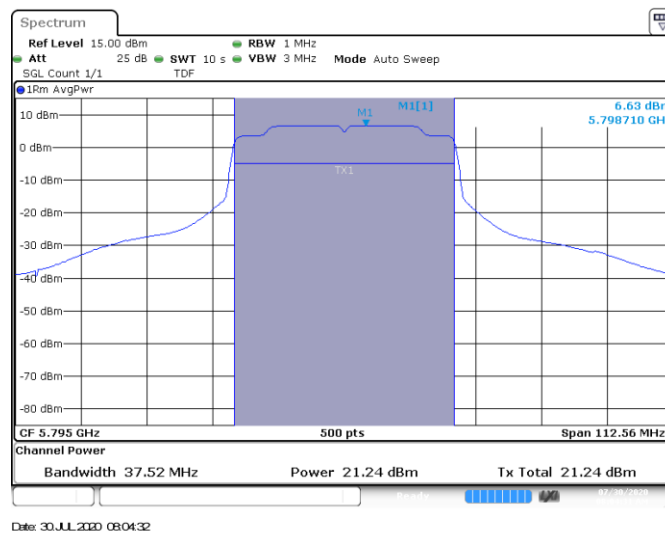
Channel 155

## MIMO-A, 802.11ax20, HE0



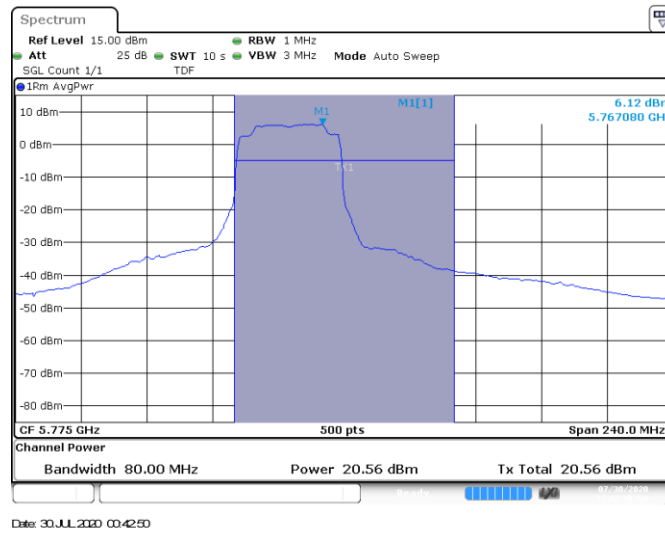
Channel 165

## MIMO-A, 802.11ax40, HE0



Channel 159

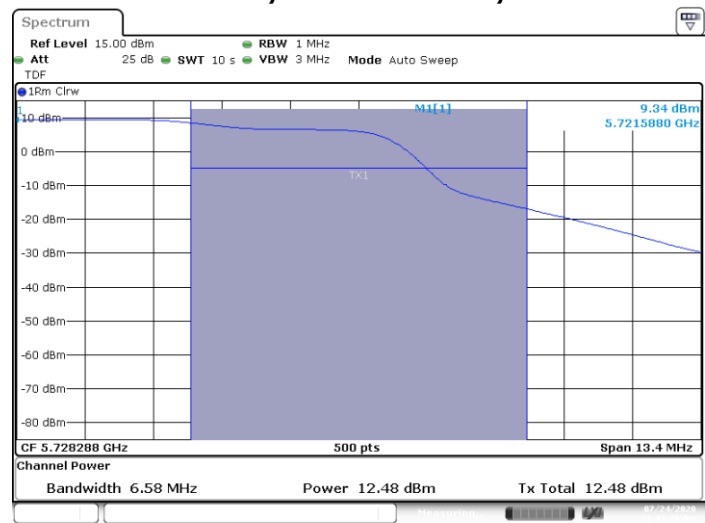
## SISO-A, 802.11ax80, HE0 RU:484-65



Channel 155

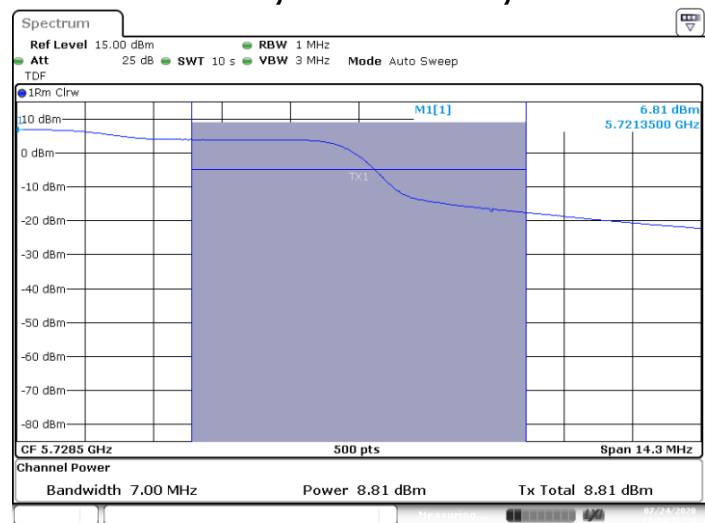
**B.2.10 Maximum output power (Overlapped Channel)**

**SISO-B, 802.11n20, HT0**



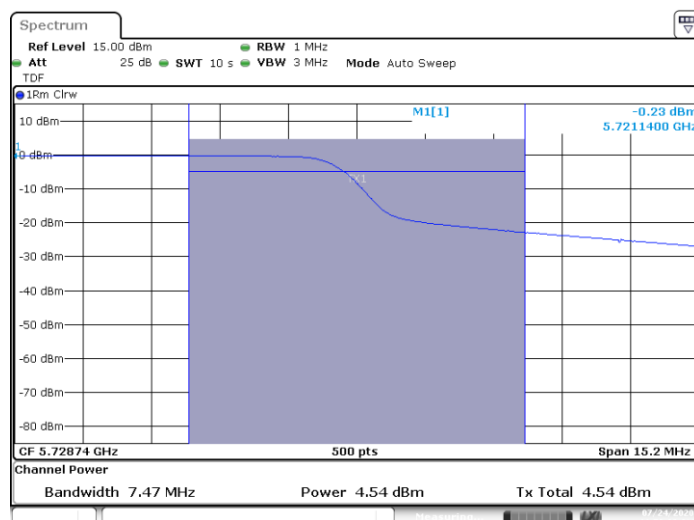
Channel 144 (Overlapped Channel)

**MIMO-B, 802.11n40, HT8**



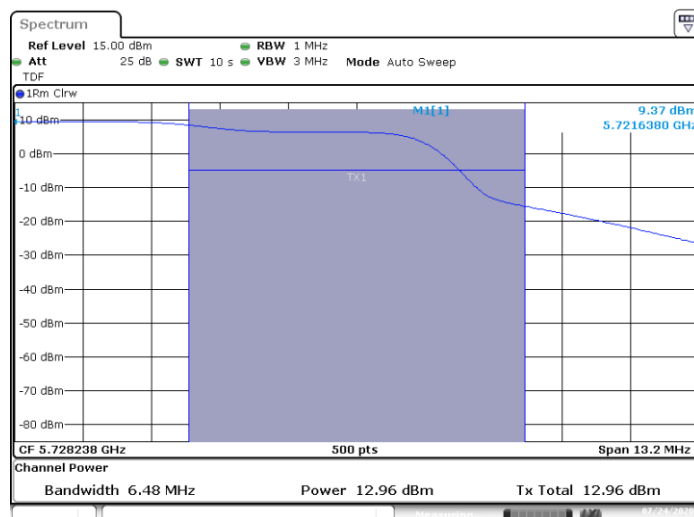
Channel 142 (Overlapped Channel)

## SISO-B, 802.11ac80, VHT0



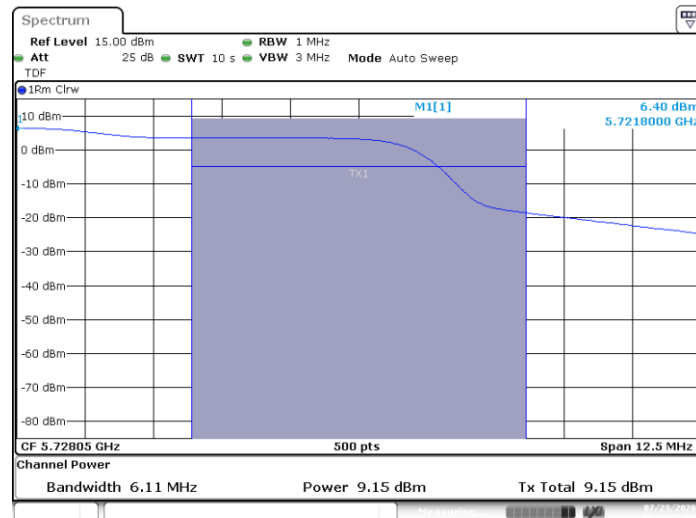
Channel 138 (Overlapped Channel)

## SISO-B, 802.11ax20, HE0



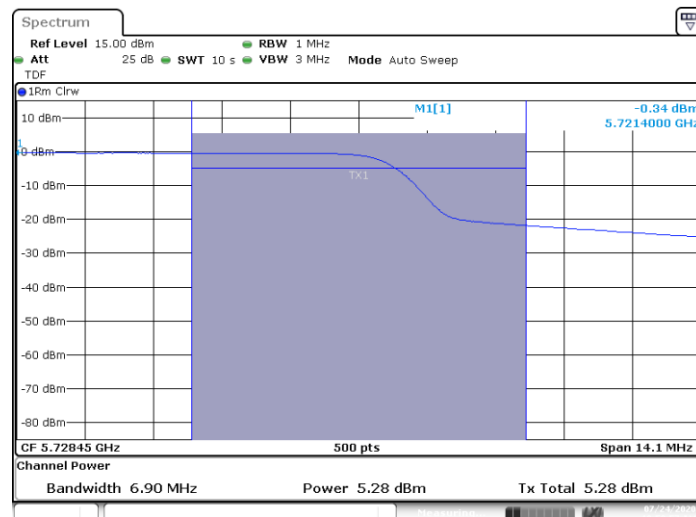
Channel 144 (Overlapped Channel)

## SISO-A, 802.11ax40, HE0



Channel 142 (Overlapped Channel)

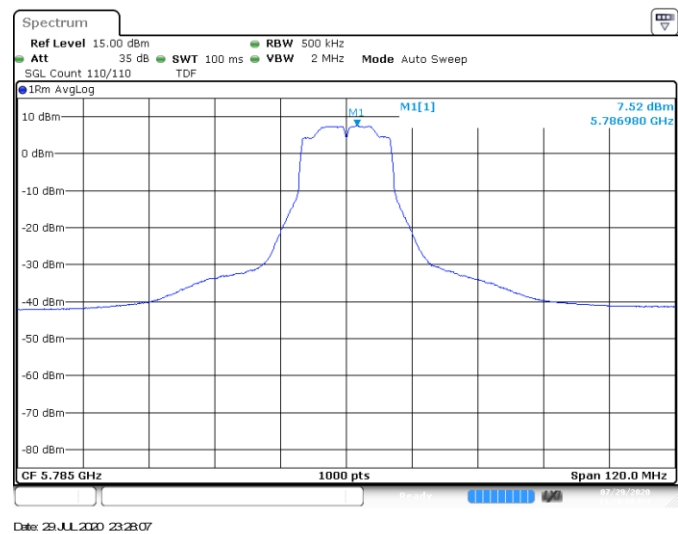
## MIMO-A, 802.11ac80, HE0



Channel 138 (Overlapped Channel)

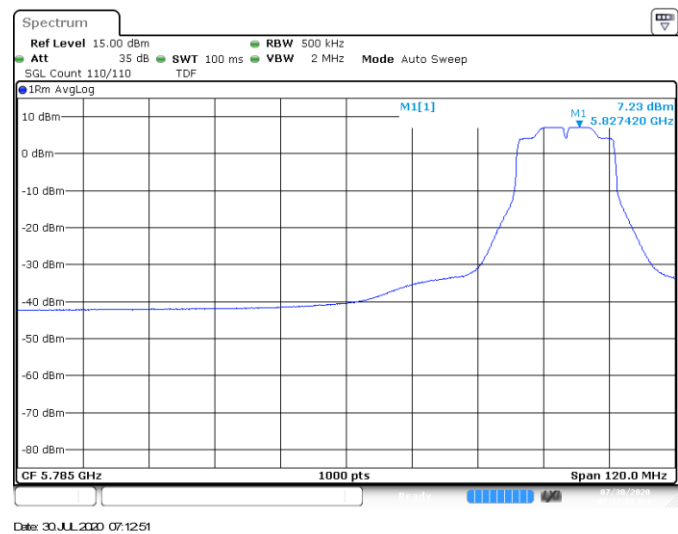
**B.2.11 Maximum power spectral Density**

**SISO-A, 802.11a, 6Mbps**



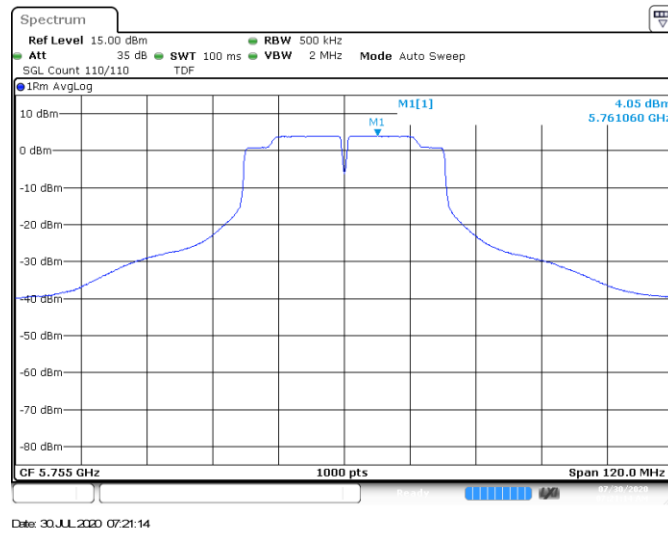
Channel 157

**MIMO-A, 802.11n20, HT8**



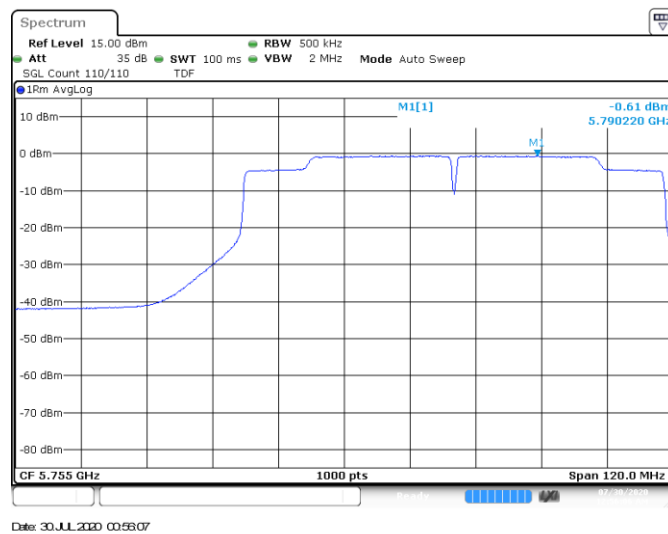
Channel 165

## MIMO-A, 802.11n40, HT8



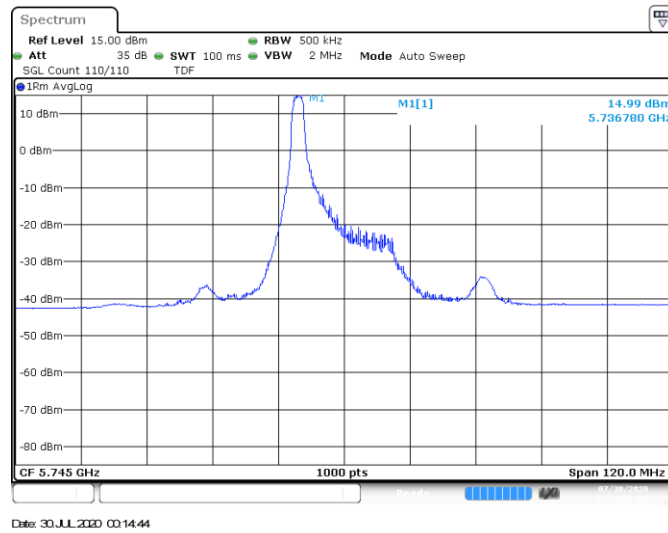
Channel 151

## SISO-A, 802.11ac80, VHT0



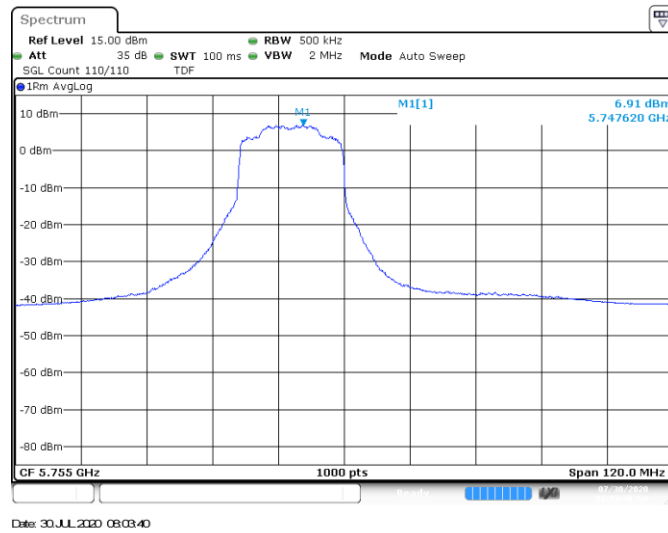
Channel 155

## SISO-A, 802.11ax20, HE0 RU:26-0



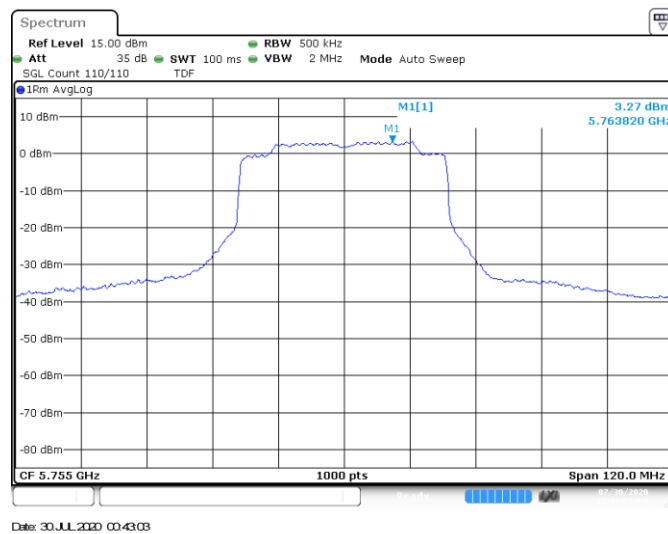
Channel 149

## MIMO-A, 802.11ax40, HE0 RU:242-61



Channel 151

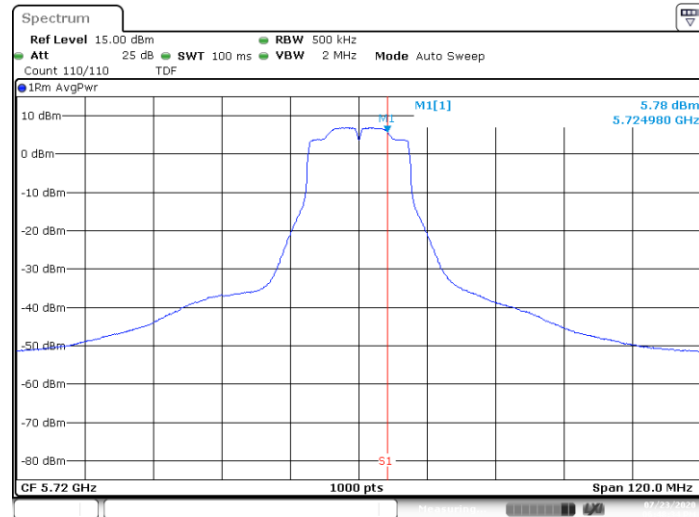
## SISO-A, 802.11ax80, HE0 RU: 484-65



Channel 155

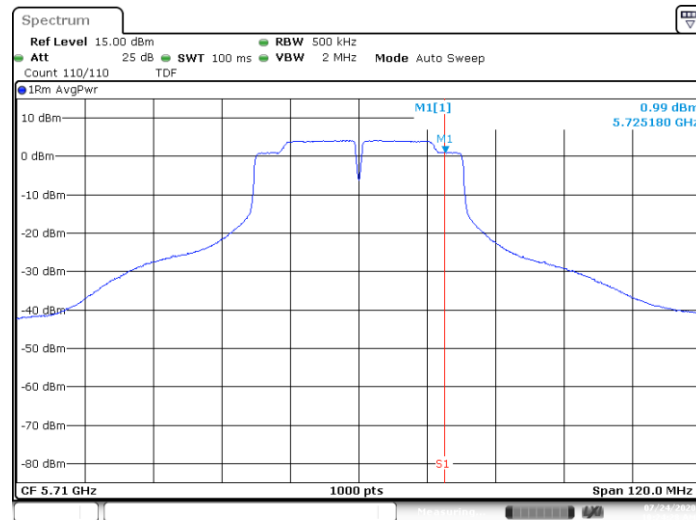
## B.2.12 Maximum power spectral Density (Overlapped Channel)

### MIMO-A, 802.11n20, HT8



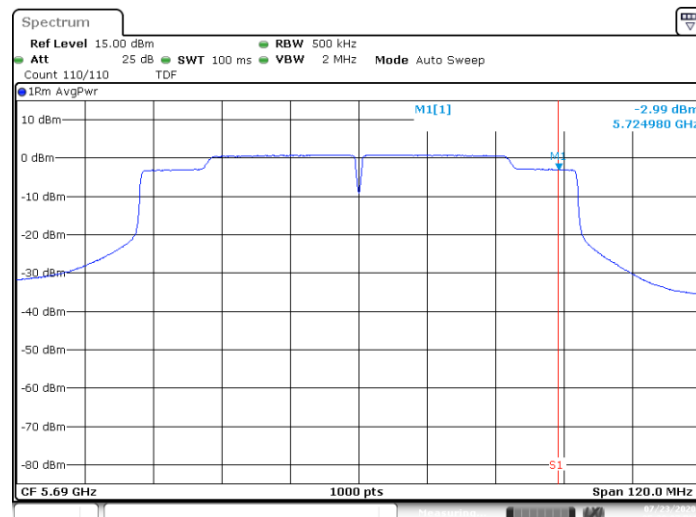
Channel 144 (Overlapped Channel)

## MIMO-A, 802.11n40, HT8



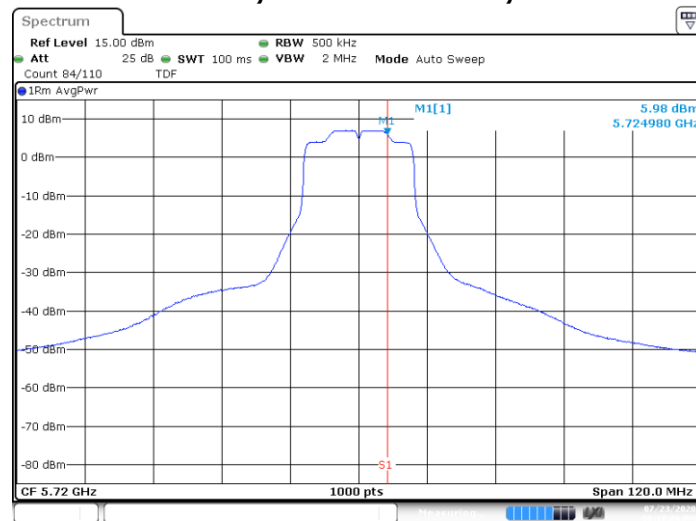
Channel 142 (Overlapped Channel)

## SISO-A, 802.11ac80, VHT0



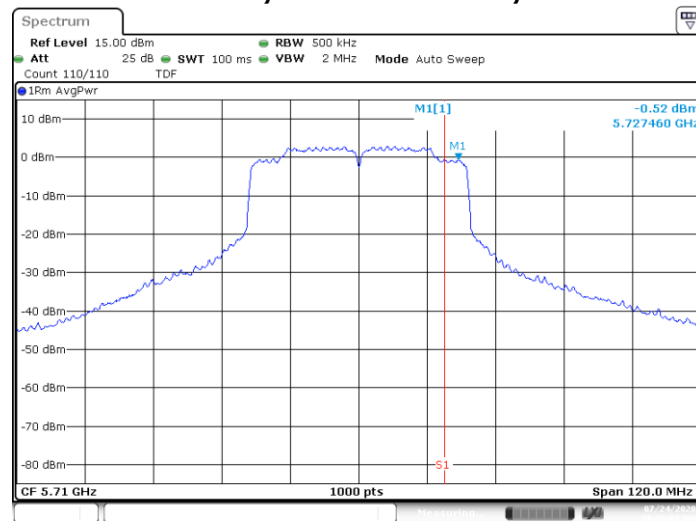
Channel 138 (Overlapped Channel)

## SISO-A, 802.11ax20, HE0



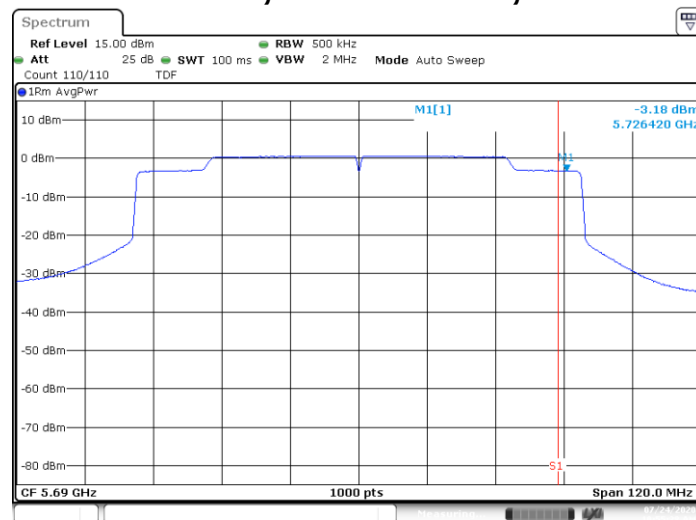
Channel 144 (Overlapped Channel)

## MIMO-A, 802.11ax40, HE0



Channel 142 (Overlapped Channel)

## MIMO-A, 802.11ac80, HE0

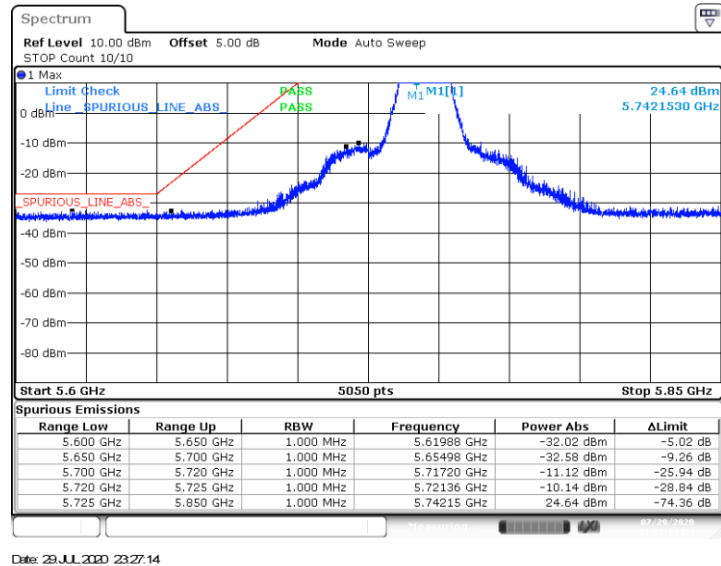


Channel 138 (Overlapped Channel)

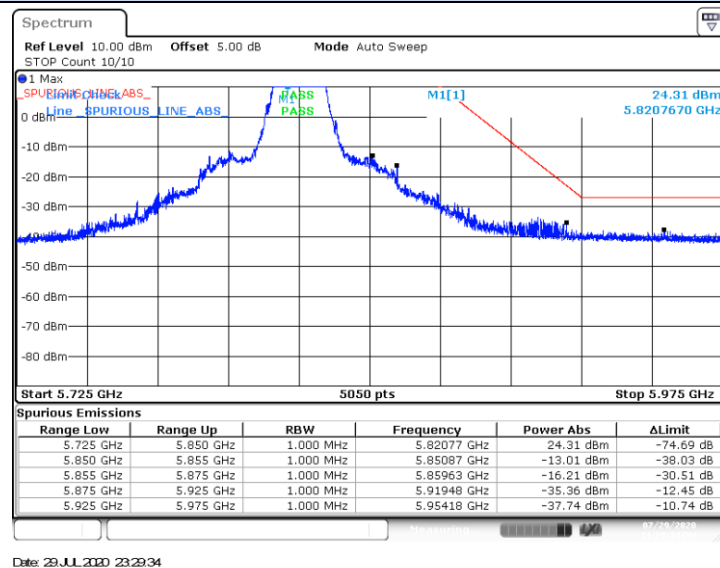
## B.2.13 Undesirable emission limits : out of band (Conducted)

### 802.11a, 6Mbps – Chain A

#### BE Low Freq Section, Peak – CH149

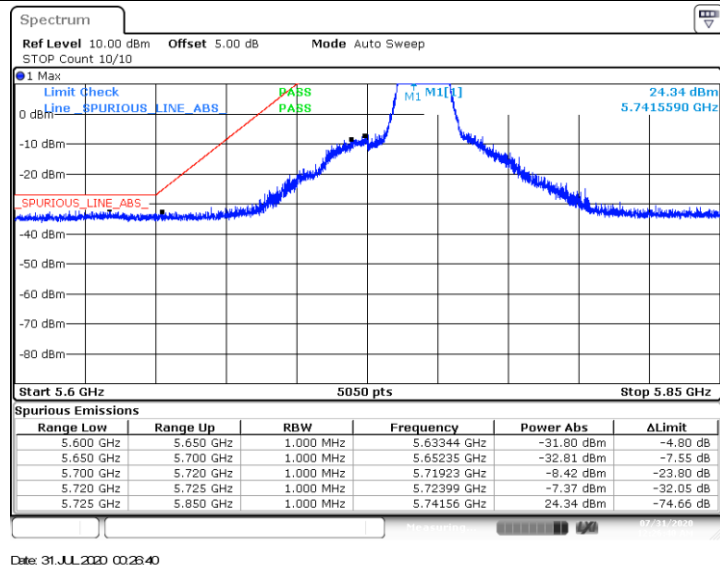


#### BE High Freq Section, Peak – CH165

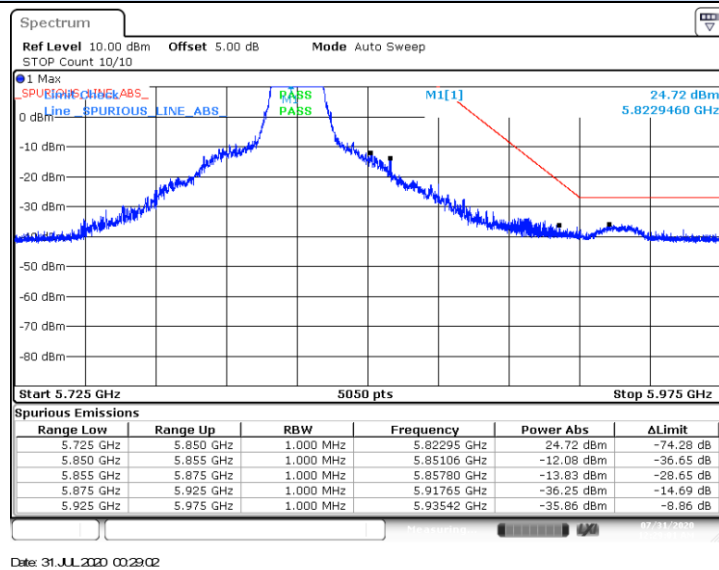


## 802.11a, 6Mbps – Chain B

### BE Low Freq Section, Peak – CH149

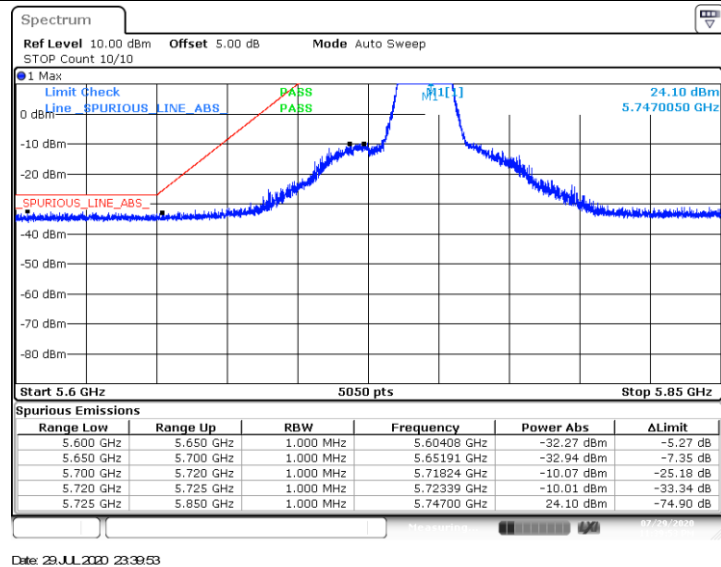


### BE High Freq Section, Peak – CH165

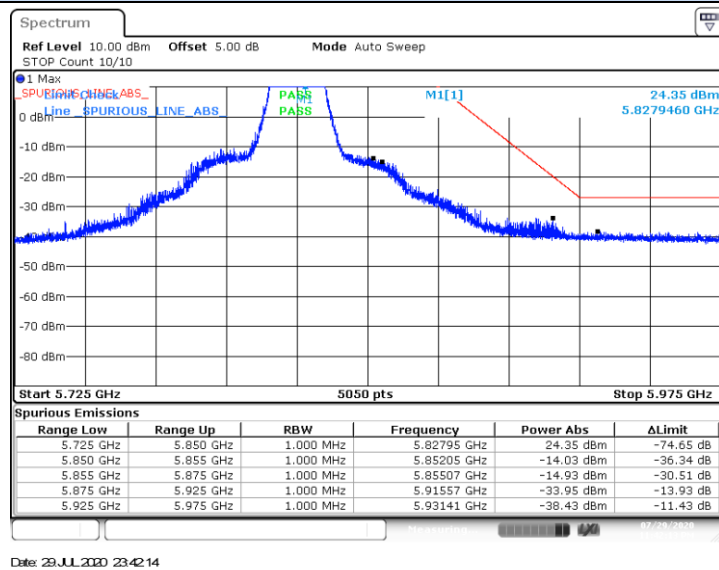


## 802.11n20, HT0 – SISO - Chain A

### BE Low Freq Section, Peak – CH149

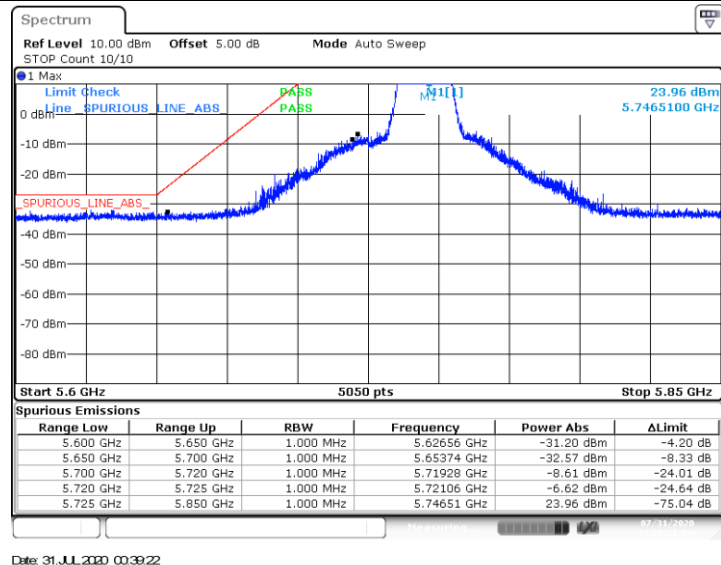


### BE High Freq Section, Peak – CH165



## 802.11n20, HT0 – SISO - Chain B

### BE Low Freq Section, Peak – CH149



### BE High Freq Section, Peak – CH165

