

# TEST REPORT

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| EUT Description        | WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card                     |
| Brand Name             | Intel® Wi-Fi 6E AX211                                              |
| Model Name             | AX211D2W                                                           |
| FCC/IC ID              | FCCID: PD9AX211D2 / IC 1000M-AX211D2                               |
| Date of Test Start/End | 2020-12-01 /2021-01-20                                             |
| Features               | 802.11ax, Dual Band, 2x2 Wi-Fi + 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 A1 issue 5<br>(see section 1) |
|---------------------|--------------------------------------------------------------------------------------|

|                            |                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------|
| Test Report identification | 201120-03.TR02                                                                                     |
| Revision Control           | Rev. 00<br>This test report revision replaces any previous test report revision<br>(see section 8) |

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## 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. 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. 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.
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- ✓ 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.
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## 3. Environmental Conditions

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

|             |                |
|-------------|----------------|
| Temperature | 20.2°C ± 4.8°C |
| Humidity    | 44.6% ±9.5%    |

#### 4. Test samples

| Sample | Control #     | Description           | Model                 | Serial #          | Date of receipt | Note                       |
|--------|---------------|-----------------------|-----------------------|-------------------|-----------------|----------------------------|
| #1     | 201120-03.S07 | WiFi 6E Module        | AX211D2W              | WFM: D8F8834E56F1 | 2020-11-23      | Used for RF Conducted test |
|        | 180000-01.S06 | Adapter 1216SD to M.2 | Adapter M2            | N/A               | 2017-05-11      |                            |
|        | 170000-01.S02 | Laptop                | Latitude E5450        | 21HTPF2           | 2017-03-28      |                            |
|        | 200611-01.S10 | Extender              | PCB00651_01           | -                 | 2020-11-30      |                            |
| #2     | 201120-03.S09 | WiFi 6E Module        | AX211D2W              | WFM:DF8834E4C92   | 2020-11-23      | See note <sup>1</sup>      |
|        | 200102-01.S03 | Extender              | ADEXELEC              | -                 | 2020-01-02      |                            |
|        | 200611-01.S06 | Adaptor               | PowerBy SNJ A4        | -                 | 2020-11-30      |                            |
|        | 200602-03.S06 | Absorber              | MCS0                  | -                 | 2020-07-03      |                            |
|        | 180000-01.S05 | Socket                | Adapter 1216SD to M.2 | -                 | 2017-08-09      |                            |
|        | 170801-01.S10 | Laptop                | Latitude E7470        | 7KNOXF2           | 2017-09-08      |                            |
|        | 200611-03.S28 | Main Antenna          | SkyCross              | -                 | 2020-07-01      |                            |
|        | 200611-03.S29 | Aux Antenna           | SkyCross              | -                 | 2020-07-01      |                            |
| #3     | 201120-03.S08 | WiFi 6E Module        | AX211D2W              | WFM:D8F8834E56AB  | 2020-11-23      | See note <sup>2</sup>      |
|        | 200611-03.S26 | Extender              | ADEXELEC              | -                 | 2020-07-01      |                            |
|        | 200611-01.S07 | Adaptor               | PowerBy SNJ A4        | -                 | 2020-11-30      |                            |
|        | 200602-03.S06 | Absorber              | MCS0                  | -                 | 2020-07-03      |                            |
|        | 180000-01.S02 | Socket                | Adapter 1216SD to M.2 | -                 | 2017-08-09      |                            |
|        | 170000-01.S01 | Laptop                | Latitude E5470        | DBPLMC2           | 2017-03-28      |                            |
|        | 200928-03.S08 | Main Antenna          | SkyCross              | -                 | 2020-09-01      |                            |
|        | 200928-03.S09 | Aux Antenna           | SkyCross              | -                 | 2020-09-01      |                            |

<sup>1</sup> Used for Radiated Spurious Emissions tests for the following spurious frequency ranges:

- 1GHz to 6.4GHz and 18GHz-40GHz for SISO and MIMO DUT modes
- 6.4 to 18GHz for MIMO DUT mode

<sup>2</sup> Used for Radiated Spurious Emissions tests for the following spurious frequency ranges:

- 30MHz-1GHz for SISO and MIMO DUT modes
- 6.4GHz-18GHz for SISO DUT mode

## 5. EUT Features

The herein information are provided by the customer

|                        |                                                                                                                                                                                                           |                 |               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|
| Brand Name             | Intel® Wi-Fi 6E AX211                                                                                                                                                                                     |                 |               |
| Model Name             | AX211D2W                                                                                                                                                                                                  |                 |               |
| Software Version       | DRTU Version: 11195_99_2100_51G                                                                                                                                                                           |                 |               |
| Driver Version         | 99.0.58.3                                                                                                                                                                                                 |                 |               |
| 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 – 5850.0 MHz)<br>Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz) |                 |               |
| Antenna Information    | Transmitter                                                                                                                                                                                               | Main (chain A)  | Aux (chain B) |
|                        | Manufacturer                                                                                                                                                                                              | SkyCross        | Skycross      |
|                        | Antenna type                                                                                                                                                                                              | PIFA antenna    | PIFA antenna  |
|                        | Part number                                                                                                                                                                                               | N/A             | N/A           |
|                        | Declared antenna gain (dBi)                                                                                                                                                                               | +5              | +5            |
| Document               | Filename                                                                                                                                                                                                  | Date of receipt |               |
|                        | Intel_Ref_Antenna data_HMC-M2 Ant_Spec_Universe_SkyCross Antenna                                                                                                                                          | 2013-01-28      |               |

## 6. Remarks and comments

1. No deviations were made from the test methods listed in section 1 of this report

## 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-2C

| FCC part                     | RSS clause                                      | Test name                                                   | Verdict |
|------------------------------|-------------------------------------------------|-------------------------------------------------------------|---------|
| 15.407 (a) (2)               | RSS-247 Clause 6.2.3.1                          | Power Limits. Maximum output power                          | P       |
| 15.407 (a) (2)               | RSS-247 Clause 6.2.3.1                          | Power spectral density                                      | P       |
| 15.407 (b) (3)<br>15.209 (a) | RSS-247 Clause 6.2.3.2<br>RSS-GEN A1 Clause 8.9 | Undesirable emissions limits: out of band (conducted)       | P       |
| 15.407 (b) (3)<br>15.209 (a) | RSS-247 Clause 6.2.3.2<br>RSS-GEN A1 Clause 8.9 | Undesirable emissions limits: Spurious emissions (radiated) | P       |

P: Pass

F: Fail

NM: Not Measured

NA: Not Applicable

## 8. Document Revision History

| Revision # | Modified by | Revision Details |
|------------|-------------|------------------|
| Rev. 00    | C.Requin    | First Issue      |

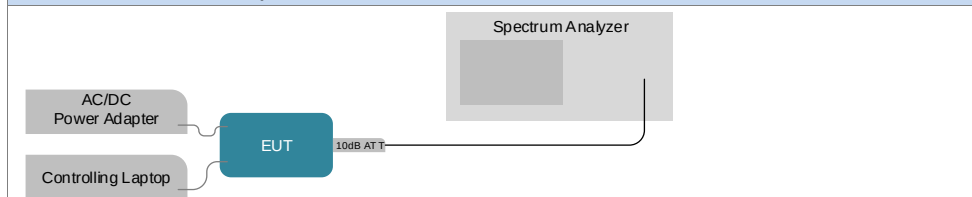
# Annex A. Test & System Description

## A.1 Measurement System

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

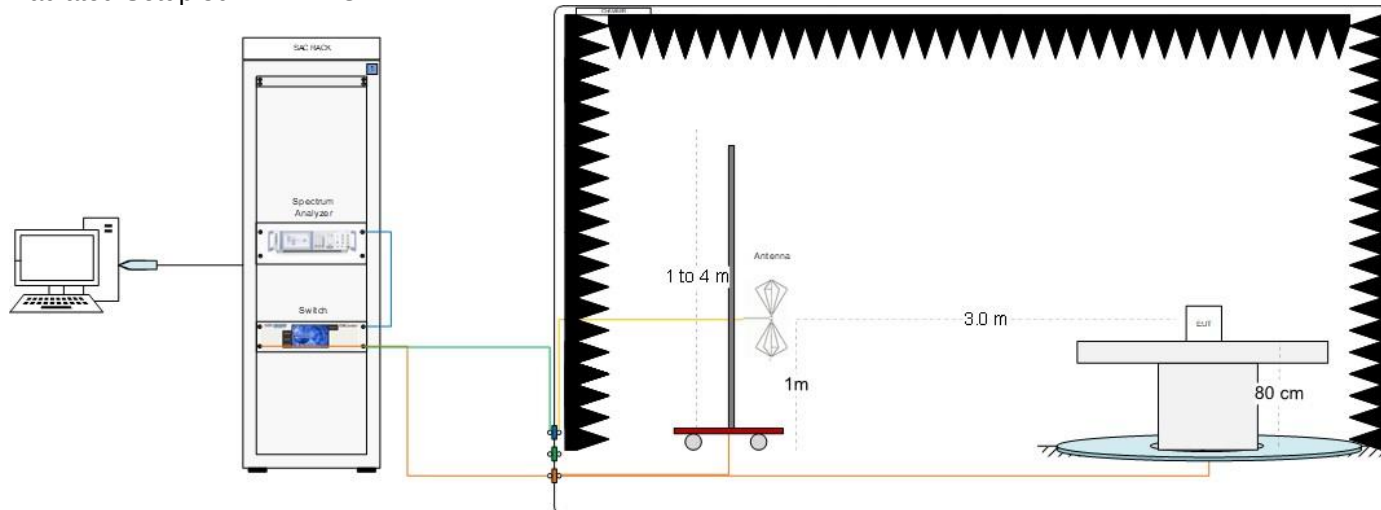
The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary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

Conducted test setup

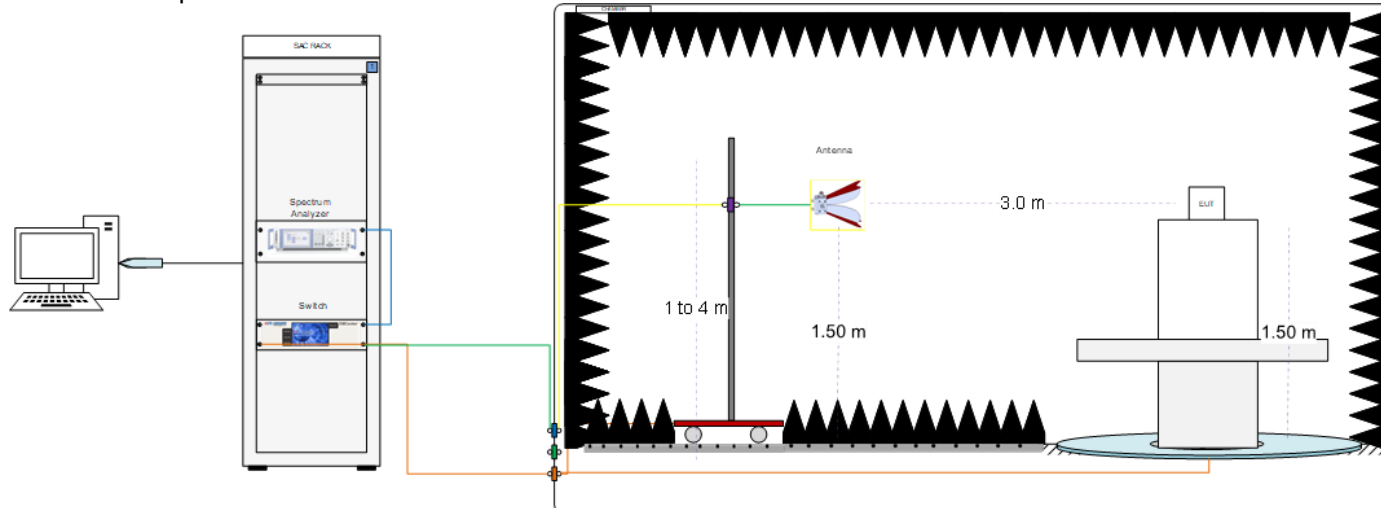


Radiated test setup

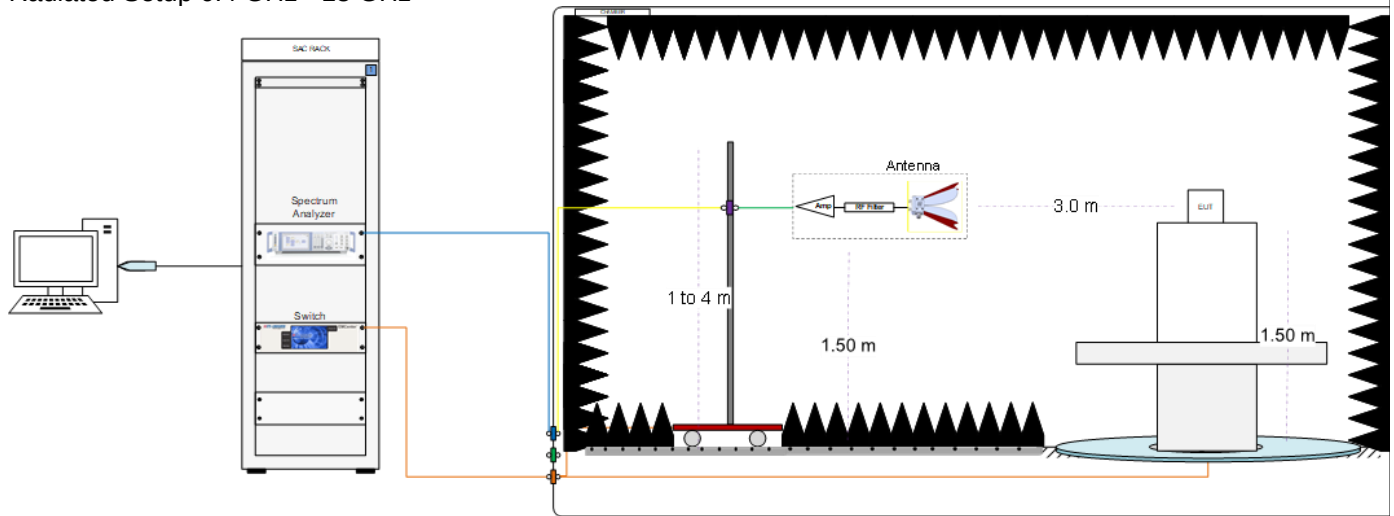
Radiated Setup 30 MHz - 1 GHz



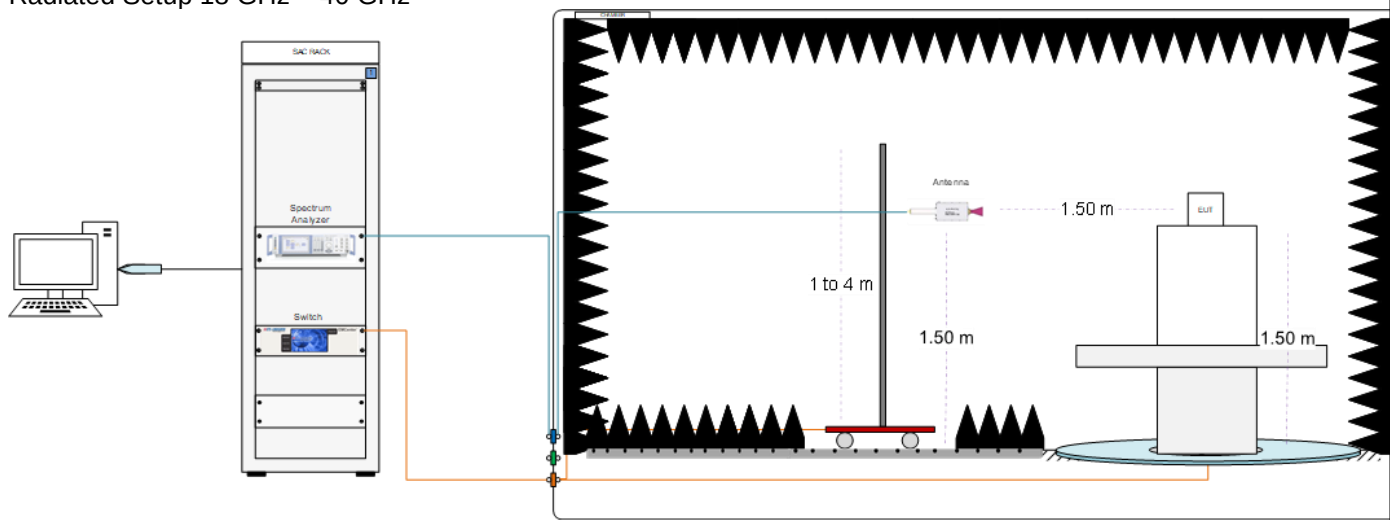
Radiated Setup 1 GHz – 6.4 GHz



## Radiated Setup 6.4 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:

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

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

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    |
| 0442 | RF cable 50cm           | Coax 2.92mm Male<br>To 2.92mm Male | N/A         | PASTERNAK       | 2020-08-26 | 2021-02-26    |
| 1044 | 10dB Attenuator + MH4   | N/A                                | N/A         | N/A             | N/A        | N/A           |
| 0581 | Temp & Humidity Logger  | RA12E-TH1-RAS                      | RA12-B89BE3 | Avtech          | 2020-01-23 | 2022-01-23    |
| 1002 | Measurement SW v1.5.4.2 | 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 | 2022-01-07    |
| 0136 | Turn Table                                                             | ETS                              | -                         | ETS-Lindgren    | N/A        | N/A           |
| 0147 | Switch & Positioning systems                                           | EMC Center                       | 00159757                  | ETS-Lindgren    | N/A        | N/A           |
| 0530 | Measurement SW                                                         | EMC32, v10.40.10                 | 100623                    | Rohde & Schwarz | N/A        | N/A           |
| 1033 | Boresight antenna mast                                                 | BAM 4.0-P                        | P/278/2890.01             | Maturo          | N/A        | N/A           |
| 1076 | Spectrum Analyzer                                                      | FSW43                            | 101847                    | Rohde & Schwarz | 2020-11-02 | 2022-11-02    |
| 0993 | Biconical antenna<br>30 MHz – 1 GHz                                    | UBAA9115<br>BBVU9135<br>DGA9552N | +<br>+<br>0286 + CH 9044  | Schwarzbeck     | 2019-11-22 | 2021-11-22    |
| 0325 | Horn antenna                                                           | 3117                             | 00157734                  | ETS-Lindgren    | 2019-08-12 | 2021-08-12    |
| 0141 | Horn Antenna + Amplifier +<br>HPF6.4                                   | 3117                             | 00157736                  | ETS-Lindgren    | 2020-04-02 | 2022-04-02    |
| 0334 | Double-Ridged Waveguide<br>Horn with Pre-Amplifier 18<br>GHz to 40 GHz | 3116C+PA                         | 00169308bis +<br>00196308 | ETS-Lindgren    | 2019-07-24 | 2021-07-24    |
| 0859 | Cable 2.5m - 30MHz to 18GHz                                            | 0500990992500KE                  | 19.23.395                 | Radiall         | 2020-11-27 | 2021-05-27    |
| 0206 | Cable 1.2m – 18 to 40 GHz                                              | UFA147A-0-0480-<br>200200        | MFR<br>64639223720-003    | Micro-coax      | 2020-08-25 | 2021-02-25    |
| 0263 | Cable 1m - 1GHz to 18GHz                                               | UFA147A                          | -                         | Utilflex        | 2020-08-25 | 2021-02-25    |
| 0369 | Cable 2m - 26.5GHz to 40GHz                                            | 794-9191-2000A                   | E00327                    | Atem            | 2020-08-25 | 2021-02-25    |
| 0371 | Cable 1m – 30 MHz - 18GHz                                              | UFB311A-0-0590-<br>50U50U        | MFR 64639<br>223230-001   | Micro-coax      | 2020-08-25 | 2021-02-25    |
| 1099 | Cable 7m DC-18 GHz                                                     | 0501051057000GX                  | 19.35.850                 | Radiall         | 2020-11-27 | 2021-05-27    |
| 0809 | Cable 7m - 18GHz to 40GHz                                              | R286304009                       | -                         | Radiall         | 2020-08-25 | 2021-02-25    |
| 1098 | Cable 1.5m - DC-18GHz                                                  | CBL-1.5M-SMSM+                   | 202879                    | Mini-Circuits   | 2020-11-27 | 2021-05-27    |
| 0797 | Temp & Humidity Logger                                                 | RA12E-TH1-RAS                    | RA12-D0EB1A               | Avtech          | 2019-07-04 | 2021-07-04    |

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                         | EMC32, v10.50.10 | 100401                 | Rohde & Schwarz | N/A        | N/A           |
| 0133 | Spectrum Analyzer                      | FSV40            | 101358                 | Rohde & Schwarz | 2020-02-25 | 2022-02-25    |
| 0138 | Double Ridge Horn (1- 18GHz)           | 3117             | 00152266               | ETS Lindgren    | 2020-03-08 | 2022-03-08    |
| 0141 | Horn Antenna 3117 + Amplifier + HPF6.4 | 3117             | 00157736               | ETS-Lindgren    | 2020-04-02 | 2022-04-02    |
| 0334 | Double Horn Ridged antenna             | 3116C-PA         | 00169308bis + 00196308 | ETS-Lindgren    | 2019-07-24 | 2021-07-24    |
| 0871 | RF Cable 1-18GHz, 1.5 m                | 0501050991200GX  | 19.21.710              | Radiall         | 2020-08-20 | 2021-02-20    |
| 0860 | RF Cable 1-18GHz, 1.2 m                | 2301761761200PJ  | 12.22.1104             | Radiall         | 2020-08-20 | 2021-02-20    |
| 0275 | RF Cable 1-18GHz - 6.5m                | 140-8500-11-51   | 001                    | Spectrum        | 2020-08-20 | 2021-02-20    |
| 0684 | RF Cable 1GHz-18GHz 1.5m               | -                | -                      | Spirent         | 2020-08-20 | 2021-02-20    |
| 0679 | RF Cable 18-40 GHz 6m                  | R286304009       | 1747364                | Radiall         | 2020-08-20 | 2021-02-20    |
| 0028 | RF Cable 1.2m 40MHz-40GHz              | 794-9191-1200A   | DA585                  | Atem            | 2020-08-20 | 2021-02-20    |
| 0725 | RF Cable 1-9.5GHz 1.2m                 | 0500990991200KE  | -                      | Radiall         | 2020-08-20 | 2021-02-20    |
| 0796 | Temp & Humidity Logger                 | RA12E-TH1-RAS    | RA12-D4F316            | Avtech          | 2019-07-05 | 2021-07-05    |

N/A: Not Applicable

## 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 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 <40 GHz | $\pm 3.45$  | dB   |
| Radiated tests <1GHz                | $\pm 5.26$  | dB   |
| Radiated tests 1GHz – 40 GHz        | $\pm 4.85$  | dB   |

# Annex B. Test Results U-NII-2C

The herein test results were performed by:

| Test case measurement                                 | Test Engineer              |
|-------------------------------------------------------|----------------------------|
| Power Limits. Maximum output power                    | C.Requin                   |
| Power spectral density                                | C.Requin                   |
| Undesirable emissions limits: out of band (conducted) | C.Requin                   |
| Undesirable emissions limits (radiated)               | A.Lounes. N.Nachabe, N.Bui |

## 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 & 802.11ax40 (40MHz channel bandwidth), 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) and 802.11ac160 & 802.11ax160 (160MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

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                 |
|              |          | 160             | VHT0                 |
|              | 802.11ax | 20              | HE0                  |
|              |          | 40              | HE0                  |
|              |          | 80              | HE0                  |
|              |          | 160             | HE0                  |
| MIMO         | 802.11n  | 20/40           | HT8                  |
|              | 802.11ac | 80/160          | VHT0                 |
|              | 802.11ax | 20/40/80/160    | HE0                  |

## **B.2 Test Results Tables**

### **B.2.1 26dB & 99% Bandwidth**

#### **Test procedure**

The conducted setup shown in section *Test & System Description* was used to measure the 26dB & 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 OET KDB 789033 D02, the boundary frequency between the bands is used as one edge for defining the portion of the 26dB bandwidth that falls within a particular U-NII band. This rule is only applicable for the 26dB bandwidth and for those channels marked as overlapped.

**Results tables****U-NII-2C channels**

| Mode        | Rate  | Antenna | Channel | Freq [MHz] | 26dB BW [MHz] | 99% BW [MHz] |
|-------------|-------|---------|---------|------------|---------------|--------------|
| 802.11a     | 6Mbps | SISO A  | 100     | 5500       | 24.30         | 16.64        |
|             |       |         | 120     | 5600       | 24.40         | 16.79        |
|             |       |         | 140     | 5700       | 24.45         | 16.58        |
|             |       | SISO B  | 100     | 5500       | 24.05         | 16.59        |
|             |       |         | 120     | 5600       | 24.30         | 16.63        |
|             |       |         | 140     | 5700       | 24.50         | 16.65        |
| 802.11n20   | HT0   | SISO A  | 100     | 5500       | 24.70         | 17.71        |
|             |       |         | 120     | 5600       | 24.75         | 17.79        |
|             |       |         | 140     | 5700       | 24.60         | 17.77        |
|             |       | SISO B  | 100     | 5500       | 24.55         | 17.77        |
|             |       |         | 120     | 5600       | 24.65         | 17.76        |
|             |       |         | 140     | 5700       | 24.65         | 17.83        |
|             | HT8   | MIMO A  | 100     | 5500       | 25.15         | 17.68        |
|             |       |         | 120     | 5600       | 25.00         | 17.93        |
|             |       |         | 140     | 5700       | 24.65         | 17.80        |
|             |       | MIMO B  | 100     | 5500       | 24.50         | 17.81        |
|             |       |         | 120     | 5600       | 24.55         | 17.90        |
|             |       |         | 140     | 5700       | 24.25         | 17.77        |
| 802.11n40   | HT0   | SISO A  | 102     | 5510       | 44.19         | 36.16        |
|             |       |         | 118     | 5590       | 45.76         | 36.16        |
|             |       |         | 134     | 5670       | 47.08         | 36.24        |
|             |       | SISO B  | 102     | 5510       | 44.19         | 36.08        |
|             |       |         | 118     | 5590       | 45.65         | 36.16        |
|             |       |         | 134     | 5670       | 46.09         | 36.24        |
|             | HT8   | MIMO A  | 102     | 5510       | 44.73         | 36.16        |
|             |       |         | 118     | 5590       | 50.71         | 36.32        |
|             |       |         | 134     | 5670       | 45.32         | 36.16        |
|             |       | MIMO B  | 102     | 5510       | 43.02         | 36.00        |
|             |       |         | 118     | 5590       | 45.32         | 36.32        |
|             |       |         | 134     | 5670       | 43.45         | 36.00        |
| 802.11ac80  | VHT0  | SISO A  | 106     | 5530       | 87.40         | 75.12        |
|             |       |         | 122     | 5610       | 93.48         | 75.36        |
|             |       | SISO B  | 106     | 5530       | 89.49         | 75.00        |
|             |       |         | 122     | 5610       | 89.30         | 75.24        |
|             |       | MIMO A  | 106     | 5530       | 88.35         | 75.00        |
|             |       |         | 122     | 5610       | 90.25         | 75.24        |
|             |       | MIMO B  | 106     | 5530       | 85.12         | 75.00        |
|             |       |         | 122     | 5610       | 91.01         | 75.12        |
| 802.11ac160 | VHT0  | SISO A  | 114     | 5570       | 164.34        | 153.00       |
|             |       | SISO B  |         |            | 240.90        | 153.40       |
|             |       | MIMO A  |         |            | 164.34        | 153.00       |
|             |       | MIMO B  |         |            | 163.35        | 153.00       |

Max Value

| Mode       | Rate | Antenna | Channel | Freq [MHz] | RU config. | 26dB BW [MHz] | 99% BW [MHz] |
|------------|------|---------|---------|------------|------------|---------------|--------------|
| 802.11ax20 | HE0  | SISO A  | 100     | 5500       | Full       | 24.85         | 18.90        |
|            |      |         |         |            | 26/0       | 20.75         | 18.37        |
|            |      |         |         |            | 52/37      | 22.55         | 18.53        |
|            |      |         |         |            | 106/53     | 22.90         | 18.23        |
|            |      |         | 120     | 5600       | Full       | 23.85         | 18.90        |
|            |      |         |         |            | Full       | 24.55         | 18.95        |
|            |      |         |         |            | 26/8       | 20.95         | 18.09        |
|            |      |         |         |            | 52/40      | 22.35         | 18.13        |
|            |      | SISO B  | 140     | 5700       | 106/54     | 23.35         | 18.03        |
|            |      |         |         |            | Full       | 24.95         | 18.87        |
|            |      |         |         |            | 26/0       | 20.65         | 18.60        |
|            |      |         |         |            | 52/37      | 21.40         | 18.49        |
|            |      |         | 100     | 5500       | 106/53     | 23.00         | 18.18        |
|            |      |         |         |            | Full       | 24.30         | 18.95        |
|            |      |         |         |            | Full       | 24.90         | 18.86        |
|            |      |         |         |            | 26/8       | 21.30         | 18.55        |
|            |      | MIMO A  | 120     | 5600       | 52/40      | 22.10         | 18.51        |
|            |      |         |         |            | 106/54     | 23.80         | 17.81        |
|            |      |         | 140     | 5700       | Full       | 23.65         | 19.03        |
|            |      |         |         |            | 26/0       | 20.75         | 18.65        |
|            |      |         |         |            | 52/37      | 22.45         | 18.29        |
|            |      |         |         |            | 106/53     | 23.10         | 18.38        |
|            |      | MIMO B  | 100     | 5500       | Full       | 24.00         | 18.88        |
|            |      |         |         |            | Full       | 24.70         | 18.93        |
|            |      |         | 120     | 5600       | 26/8       | 21.00         | 17.93        |
|            |      |         |         |            | 52/40      | 21.60         | 18.14        |
|            |      |         | 140     | 5700       | 106/54     | 23.50         | 18.19        |
|            |      |         |         |            | Full       | 23.60         | 19.05        |
|            |      |         |         |            | 26/0       | 21.00         | 18.65        |
|            |      |         |         |            | 52/37      | 22.30         | 18.33        |
| 802.11ax40 | HE0  | SISO A  | 102     | 5510       | 106/53     | 23.65         | 18.24        |
|            |      |         |         |            | Full       | 24.45         | 18.93        |
|            |      |         | 118     | 5590       | Full       | 23.95         | 18.91        |
|            |      |         |         |            | 26/8       | 21.05         | 18.85        |
|            |      | SISO B  | 102     | 5510       | 52/40      | 20.45         | 17.80        |
|            |      |         |         |            | 106/54     | 23.75         | 17.95        |
|            |      |         | 118     | 5590       | Full       | 43.38         | 37.68        |
|            |      |         |         |            | 242/61     | 24.57         | 19.12        |
|            |      | MIMO A  | 134     | 5670       | Full       | 44.91         | 37.68        |
|            |      |         |         |            | Full       | 46.53         | 37.52        |
|            |      | MIMO B  | 102     | 5510       | 242/62     | 25.65         | 18.80        |
|            |      |         |         |            | Full       | 43.02         | 37.44        |
|            |      |         | 118     | 5590       | 242/61     | 24.21         | 18.96        |
|            |      |         |         |            | Full       | 43.92         | 37.60        |
|            |      | MIMO B  | 134     | 5670       | Full       | 44.28         | 37.68        |
|            |      |         |         |            | 242/62     | 24.12         | 18.88        |
| 802.11ax80 | HE0  | SISO A  | 106     | 5530       | Full       | 44.01         | 37.68        |
|            |      |         |         |            | 242/61     | 25.47         | 18.88        |
|            |      |         | 122     | 5610       | Full       | 47.25         | 37.68        |
|            |      |         |         |            | Full       | 44.10         | 37.68        |
|            |      | SISO B  | 106     | 5530       | 242/62     | 25.74         | 18.88        |
|            |      |         |         |            | Full       | 43.02         | 37.44        |
|            |      |         | 122     | 5610       | 242/61     | 24.84         | 18.80        |
|            |      |         |         |            | Full       | 47.70         | 37.84        |
|            |      | MIMO A  | 106     | 5530       | Full       | 43.20         | 37.60        |
|            |      |         |         |            | 242/62     | 25.02         | 18.88        |
|            |      | MIMO B  | 134     | 5670       | Full       | 83.79         | 76.68        |
|            |      |         |         |            | 484/65     | 43.51         | 37.56        |
|            |      |         | 106     | 5530       | Full       | 84.93         | 76.92        |
|            |      |         |         |            | 484/65     | 43.13         | 37.44        |
|            |      | MIMO B  | 122     | 5610       | Full       | 86.07         | 76.80        |
|            |      |         |         |            | 484/65     | 44.65         | 37.44        |
|            |      |         | 106     | 5530       | Full       | 85.12         | 76.68        |
|            |      |         |         |            | 484/65     | 43.51         | 37.44        |
|            |      |         | 122     | 5610       | Full       | 87.59         | 76.80        |
|            |      |         |         |            | 484/65     | 43.51         | 37.44        |
|            |      |         | 106     | 5530       | Full       | 82.65         | 76.68        |
|            |      |         |         |            | 484/65     | 43.51         | 37.44        |
|            |      |         | 122     | 5610       | Full       | 88.92         | 76.80        |
|            |      |         |         |            | 484/65     | 43.51         | 37.44        |

Max Value

| Mode        | Rate | Antenna | Channel | Freq [MHz] | RU config. | 26dB BW [MHz] | 99% BW [MHz] |
|-------------|------|---------|---------|------------|------------|---------------|--------------|
| 802.11ax160 | HE0  | SISO A  | 114     | 5570       | Full       | 163.02        | 154.80       |
|             |      |         |         |            | 996/67     | 85.80         | 76.80        |
|             |      |         |         |            | 996/S67    | 86.13         | 77.00        |
|             |      | SISO B  |         |            | Full       | 163.35        | 155.00       |
|             |      |         |         |            | 996/67     | 86.46         | 77.00        |
|             |      |         |         |            | 996/S67    | 85.47         | 77.00        |
|             |      | MIMO A  |         |            | Full       | 164.01        | 154.80       |
|             |      |         |         |            | 996/67     | 88.77         | 77.00        |
|             |      |         |         |            | 996/S67    | 86.13         | 77.00        |
|             |      | MIMO B  |         |            | Full       | 163.35        | 154.80       |
|             |      |         |         |            | 996/67     | 84.15         | 76.80        |
|             |      |         |         |            | 996/S67    | 86.46         | 77.00        |

Max Value

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

| Mode       | Rate | Channel | Frequency (MHz) | Antenna | Chain | 26dB BW [MHz]<br>UNII2C |
|------------|------|---------|-----------------|---------|-------|-------------------------|
| 802.11n20  | HT0  | 144     | 5720            | SISO    | A     | 16.67                   |
|            |      |         |                 |         | B     | 16.92                   |
|            | HT8  |         |                 | MIMO    | A     | 16.92                   |
|            |      |         |                 |         | B     | 16.47                   |
| 802.11n40  | HT0  | 142     | 5710            | SISO    | A     | 37.90                   |
|            |      |         |                 |         | B     | 38.62                   |
|            | HT8  |         |                 | MIMO    | A     | 37.00                   |
|            |      |         |                 |         | B     | 36.01                   |
| 802.11ac80 | VHT0 | 138     | 5690            | SISO    | A     | 79.17                   |
|            |      |         |                 |         | B     | 78.22                   |
|            |      |         |                 | MIMO    | A     | 77.27                   |
|            |      |         |                 |         | B     | 77.27                   |
| 802.11ax20 | HE0  | 144     | 5720            | SISO    | A     | 17.07                   |
|            |      |         |                 |         | B     | 16.92                   |
|            |      |         |                 | MIMO    | A     | 16.52                   |
|            |      |         |                 |         | B     | 16.67                   |
| 802.11ax40 | HE0  | 142     | 5710            | SISO    | A     | 35.83                   |
|            |      |         |                 |         | B     | 36.55                   |
|            |      |         |                 | MIMO    | A     | 36.01                   |
|            |      |         |                 |         | B     | 36.19                   |
| 802.11ax80 | HE0  | 138     | 5690            | SISO    | A     | 77.27                   |
|            |      |         |                 |         | B     | 75.94                   |
|            |      |         |                 | MIMO    | A     | 76.51                   |
|            |      |         |                 |         | B     | 75.94                   |

Max Value

See annex C.1.1 and C.1.2 for screenshot results

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

### Test limits

| Part                        | Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC 15.407<br>(a) (2)       | For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.                                                                                                                                                                                                         |
| RSS-247 Clause<br>6.2.3 (1) | <p>The maximum conducted output power shall not exceed 250 mW or <math>11 + 10 \log_{10} B</math>, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.</p> <p>The maximum e.i.r.p. shall not exceed 1.0 W or <math>17 + 10 \log_{10} B</math>, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.</p> |

### 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 OET KDB 789033 D02.

The maximum power spectral density (PSD) was measured using the method according to section F) (Method SA-2 Alternative) of FCC OET 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 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 OET KDB 789033 D02 the power is computed based on the portion of the emission bandwidth contained within that band. This rule is only applicable for those channels marked as overlapped



## Results tables

### Duty cycle

| Mode        | Rate  | Antenna | Duty Cycle [%] |
|-------------|-------|---------|----------------|
| 802.11a     | 6Mbps | SISO A  | 97.60          |
|             |       | SISO B  | 97.60          |
| 802.11n20   | HT0   | SISO A  | 98.00          |
|             |       | SISO B  | 98.00          |
|             | HT8   | MIMO A  | 98.00          |
|             |       | MIMO B  | 98.00          |
| 802.11ax20  | HE0   | SISO A  | 98.00          |
|             |       | SISO B  | 98.00          |
|             |       | MIMO A  | 98.00          |
|             |       | MIMO B  | 98.00          |
| 802.11n40   | HT0   | SISO A  | 98.00          |
|             |       | SISO B  | 98.00          |
|             | HT8   | MIMO A  | 98.00          |
|             |       | MIMO B  | 98.00          |
| 802.11ax40  | HE0   | SISO A  | 98.00          |
|             |       | SISO B  | 98.00          |
|             |       | MIMO A  | 98.00          |
|             |       | MIMO B  | 98.00          |
| 802.11ac80  | VHT0  | SISO A  | 98.40          |
|             |       | SISO B  | 98.40          |
|             |       | MIMO A  | 97.70          |
|             |       | MIMO B  | 97.70          |
| 802.11ax80  | HE0   | SISO A  | 98.00          |
|             |       | SISO B  | 98.00          |
|             |       | MIMO A  | 97.10          |
|             |       | MIMO B  | 97.10          |
| 802.11ac160 | VTH0  | SISO A  | 97.60          |
|             |       | SISO B  | 97.60          |
|             |       | MIMO A  | 96.20          |
|             |       | MIMO B  | 96.20          |
| 802.11ax160 | HE0   | SISO A  | 97.10          |
|             |       | SISO B  | 97.10          |
|             |       | MIMO A  | 94.00          |
|             |       | MIMO B  | 94.00          |

**Maximum output power – U-NII-2C Channels**

| Mode        | Rate  | #Ch | Freq [MHz] | Antenna      | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|-------------|-------|-----|------------|--------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| 802.11a     | 6Mbps | 100 | 5500       | SISO A       | 20.83                                | 20.94                                 | 25.94                | 124.04                        |
|             |       |     |            | SISO B       | 20.70                                | 20.81                                 | 25.81                | 120.38                        |
|             |       | 120 | 5600       | SISO A       | 20.92                                | 21.03                                 | 26.03                | 126.63                        |
|             |       |     |            | SISO B       | 20.98                                | 21.09                                 | 26.09                | 128.40                        |
|             |       | 140 | 5700       | SISO A       | 20.67                                | 20.78                                 | 25.78                | 119.55                        |
|             |       |     |            | SISO B       | 20.48                                | 20.59                                 | 25.59                | 114.43                        |
| 802.11n20   | HT0   | 100 | 5500       | SISO A       | 20.65                                | 20.65                                 | 25.65                | 116.14                        |
|             |       |     |            | SISO B       | 20.52                                | 20.52                                 | 25.52                | 112.72                        |
|             |       | 120 | 5600       | SISO A       | 20.88                                | 20.88                                 | 25.88                | 122.46                        |
|             |       |     |            | SISO B       | 20.86                                | 20.86                                 | 25.86                | 121.90                        |
|             |       | 140 | 5700       | SISO A       | 20.51                                | 20.51                                 | 25.51                | 112.46                        |
|             |       |     |            | SISO B       | 20.60                                | 20.60                                 | 25.60                | 114.82                        |
|             | HT8   | 100 | 5500       | MIMO A       | 18.69                                | 18.69                                 | 23.69                | 73.96                         |
|             |       |     |            | MIMO B       | 18.60                                | 18.60                                 | 23.60                | 72.44                         |
|             |       |     |            | Combined A+B | 21.66                                | 21.66                                 | 26.66                | 146.40                        |
|             |       | 120 | 5600       | MIMO A       | 18.73                                | 18.73                                 | 23.73                | 74.64                         |
|             |       |     |            | MIMO B       | 18.67                                | 18.67                                 | 23.67                | 73.62                         |
|             |       |     |            | Combined A+B | 21.71                                | 21.71                                 | 26.71                | 148.27                        |
| 802.11n40   | HT0   | 102 | 5510       | SISO A       | 19.81                                | 19.81                                 | 24.81                | 95.72                         |
|             |       |     |            | SISO B       | 19.96                                | 19.96                                 | 24.96                | 99.08                         |
|             |       | 118 | 5590       | SISO A       | 21.10                                | 21.10                                 | 26.10                | 128.82                        |
|             |       |     |            | SISO B       | 21.06                                | 21.06                                 | 26.06                | 127.64                        |
|             |       | 134 | 5670       | SISO A       | 21.02                                | 21.02                                 | 26.02                | 126.47                        |
|             |       |     |            | SISO B       | 20.87                                | 20.87                                 | 25.87                | 122.18                        |
|             | HT8   | 102 | 5510       | MIMO A       | 18.33                                | 18.33                                 | 23.33                | 68.08                         |
|             |       |     |            | MIMO B       | 17.92                                | 17.92                                 | 22.92                | 61.94                         |
|             |       |     |            | Combined A+B | 21.14                                | 21.14                                 | 26.14                | 130.02                        |
|             |       | 118 | 5590       | MIMO A       | 20.77                                | 20.77                                 | 25.77                | 119.40                        |
|             |       |     |            | MIMO B       | 21.13                                | 21.13                                 | 26.13                | 129.72                        |
|             |       |     |            | Combined A+B | 23.96                                | 23.96                                 | 28.96                | 248.89                        |
| 802.11ac80  | VHT0  | 106 | 5530       | MIMO A       | 20.08                                | 20.08                                 | 25.08                | 101.86                        |
|             |       |     |            | MIMO B       | 19.77                                | 19.77                                 | 24.77                | 94.84                         |
|             |       |     |            | Combined A+B | 22.94                                | 22.94                                 | 27.94                | 196.70                        |
|             |       | 122 | 5610       | MIMO A       | 20.36                                | 20.46                                 | 25.46                | 111.20                        |
|             |       |     |            | MIMO B       | 20.42                                | 20.52                                 | 25.52                | 112.75                        |
|             |       |     |            | Combined A+B | 23.40                                | 23.50                                 | 28.50                | 223.95                        |
|             |       | 106 | 5530       | SISO A       | 18.06                                | 18.06                                 | 23.06                | 63.97                         |
|             |       |     |            | SISO B       | 17.94                                | 17.94                                 | 22.94                | 62.23                         |
| 802.11ac160 | VHT0  | 114 | 5570       | SISO A       | 15.97                                | 16.08                                 | 21.08                | 40.51                         |
|             |       |     |            | SISO B       | 16.89                                | 17.00                                 | 22.00                | 50.07                         |
|             |       |     |            | MIMO A       | 14.67                                | 14.84                                 | 19.84                | 30.47                         |
|             |       |     |            | MIMO B       | 14.58                                | 14.75                                 | 19.75                | 29.84                         |
|             |       |     |            | Combined A+B | 17.64                                | 17.80                                 | 22.80                | 60.31                         |

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

Max/Min Value

| Mode       | Rate | #Ch | Freq [MHz] | Antenna      | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|------------|------|-----|------------|--------------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| 802.11ax20 | HE0  | 100 | 5500       | SISO A       | Full       | 20.90                                | 20.90                                 | 25.90                | 123.03                        |
|            |      |     |            |              | 26/0       | 13.42                                | 13.42                                 | 18.42                | 21.98                         |
|            |      |     |            |              | 52/37      | 16.31                                | 16.31                                 | 21.31                | 42.76                         |
|            |      |     |            |              | 106/53     | 19.47                                | 19.47                                 | 24.47                | 88.51                         |
|            |      |     |            | SISO B       | Full       | 20.67                                | 20.67                                 | 25.67                | 116.68                        |
|            |      |     |            |              | 26/0       | 13.44                                | 13.44                                 | 18.44                | 22.08                         |
|            |      |     |            |              | 52/37      | 16.17                                | 16.17                                 | 21.17                | 41.40                         |
|            |      |     |            |              | 106/53     | 19.50                                | 19.50                                 | 24.50                | 89.13                         |
|            |      |     |            | MIMO A       | Full       | 18.80                                | 18.80                                 | 23.80                | 75.86                         |
|            |      |     |            |              | 26/0       | 10.71                                | 10.71                                 | 15.71                | 11.78                         |
|            |      |     |            |              | 52/37      | 13.51                                | 13.51                                 | 18.51                | 22.44                         |
|            |      |     |            |              | 106/53     | 15.85                                | 15.85                                 | 20.85                | 38.46                         |
|            |      |     |            | MIMO B       | Full       | 18.93                                | 18.93                                 | 23.93                | 78.16                         |
|            |      |     |            |              | 26/0       | 10.56                                | 10.56                                 | 15.56                | 11.38                         |
|            |      |     |            |              | 52/37      | 13.62                                | 13.62                                 | 18.62                | 23.01                         |
|            |      |     |            |              | 106/53     | 16.22                                | 16.22                                 | 21.22                | 41.88                         |
|            |      |     |            | Combined A+B | Full       | 21.88                                | 21.88                                 | 26.88                | 154.02                        |
|            |      |     |            |              | 26/0       | 13.65                                | 13.65                                 | 18.65                | 23.15                         |
|            |      |     |            |              | 52/37      | 16.58                                | 16.58                                 | 21.58                | 45.45                         |
|            |      |     |            |              | 106/53     | 19.05                                | 19.05                                 | 24.05                | 80.34                         |
|            |      | 120 | 5600       | SISO A       | Full       | 20.95                                | 20.95                                 | 25.95                | 124.45                        |
|            |      |     |            | SISO B       | Full       | 21.00                                | 21.00                                 | 26.00                | 125.89                        |
|            |      |     |            | MIMO A       | Full       | 18.88                                | 18.88                                 | 23.88                | 77.27                         |
|            |      |     |            | MIMO B       | Full       | 18.82                                | 18.82                                 | 23.82                | 76.21                         |
|            |      |     |            | Combined A+B | Full       | 21.86                                | 21.86                                 | 26.86                | 153.48                        |
|            |      | 140 | 5700       | SISO A       | Full       | 20.58                                | 20.58                                 | 25.58                | 114.29                        |
|            |      |     |            |              | 26/8       | 13.33                                | 13.33                                 | 18.33                | 21.53                         |
|            |      |     |            |              | 52/40      | 16.39                                | 16.39                                 | 21.39                | 43.55                         |
|            |      |     |            |              | 106/54     | 19.34                                | 19.34                                 | 24.34                | 85.90                         |
|            |      |     |            | SISO B       | Full       | 20.75                                | 20.75                                 | 25.75                | 118.85                        |
|            |      |     |            |              | 26/8       | 13.42                                | 13.42                                 | 18.42                | 21.98                         |
|            |      |     |            |              | 52/40      | 16.35                                | 16.35                                 | 21.35                | 43.15                         |
|            |      |     |            |              | 106/54     | 19.59                                | 19.59                                 | 24.59                | 90.99                         |
|            |      |     |            | MIMO A       | Full       | 19.04                                | 19.04                                 | 24.04                | 80.17                         |
|            |      |     |            |              | 26/8       | 10.51                                | 10.51                                 | 15.51                | 11.25                         |
|            |      |     |            |              | 52/40      | 13.26                                | 13.26                                 | 18.26                | 21.18                         |
|            |      |     |            |              | 106/54     | 16.45                                | 16.45                                 | 21.45                | 44.16                         |
|            |      |     |            | MIMO B       | Full       | 18.84                                | 18.84                                 | 23.84                | 76.56                         |
|            |      |     |            |              | 26/8       | 10.63                                | 10.63                                 | 15.63                | 11.56                         |
|            |      |     |            |              | 52/40      | 13.45                                | 13.45                                 | 18.45                | 22.13                         |
|            |      |     |            |              | 106/54     | 16.46                                | 16.46                                 | 21.46                | 44.26                         |
|            |      |     |            | Combined A+B | Full       | 21.95                                | 21.95                                 | 26.95                | 156.73                        |
|            |      |     |            |              | 26/8       | 13.58                                | 13.58                                 | 18.58                | 22.81                         |
|            |      |     |            |              | 52/40      | 16.37                                | 16.37                                 | 21.37                | 43.31                         |
|            |      |     |            |              | 106/54     | 19.47                                | 19.47                                 | 24.47                | 88.42                         |
| 802.11ax40 | HE0  | 102 | 5510       | SISO A       | Full       | 19.91                                | 19.91                                 | 24.91                | 97.95                         |
|            |      |     |            |              | 242/61     | 21.03                                | 21.03                                 | 26.03                | 126.77                        |
|            |      |     |            | SISO B       | Full       | 19.80                                | 19.80                                 | 24.80                | 95.50                         |
|            |      |     |            |              | 242/61     | 21.16                                | 21.16                                 | 26.16                | 130.62                        |
|            |      |     |            | MIMO A       | Full       | 17.78                                | 17.78                                 | 22.78                | 59.98                         |
|            |      |     |            |              | 242/61     | 19.24                                | 19.24                                 | 24.24                | 83.95                         |
|            |      |     |            | MIMO B       | Full       | 17.65                                | 17.65                                 | 22.65                | 58.21                         |
|            |      |     |            |              | 242/61     | 19.26                                | 19.26                                 | 24.26                | 84.33                         |
|            |      |     |            | Combined A+B | Full       | 20.73                                | 20.73                                 | 25.73                | 118.19                        |
|            |      |     |            |              | 242/61     | 22.26                                | 22.26                                 | 27.26                | 168.28                        |
|            |      | 118 | 5590       | SISO A       | Full       | 21.06                                | 21.06                                 | 26.06                | 127.64                        |
|            |      |     |            | SISO B       | Full       | 21.04                                | 21.04                                 | 26.04                | 127.06                        |
|            |      |     |            | MIMO A       | Full       | 20.88                                | 20.88                                 | 25.88                | 122.46                        |
|            |      |     |            | MIMO B       | Full       | 20.83                                | 20.83                                 | 25.83                | 121.06                        |
|            |      |     |            | Combined A+B | Full       | 23.87                                | 23.87                                 | 28.87                | 243.52                        |
|            |      |     |            |              | Full       | 21.19                                | 21.19                                 | 26.19                | 131.52                        |
|            |      | 134 | 5670       | SISO A       | 242/62     | 21.09                                | 21.09                                 | 26.09                | 128.53                        |
|            |      |     |            |              | Full       | 20.95                                | 20.95                                 | 25.95                | 124.45                        |
|            |      |     |            | SISO B       | 242/62     | 20.97                                | 20.97                                 | 25.97                | 125.03                        |
|            |      |     |            |              | Full       | 20.15                                | 20.15                                 | 25.15                | 103.51                        |
|            |      |     |            | MIMO A       | 242/62     | 19.08                                | 19.08                                 | 24.08                | 80.91                         |
|            |      |     |            |              | Full       | 19.29                                | 19.29                                 | 24.29                | 84.92                         |
|            |      |     |            | MIMO B       | 242/62     | 18.82                                | 18.82                                 | 23.82                | 76.21                         |
|            |      |     |            |              | Full       | 22.75                                | 22.75                                 | 27.75                | 188.43                        |
|            |      |     |            | Combined A+B | 242/62     | 21.96                                | 21.96                                 | 26.96                | 157.12                        |

\* Maximum values are the duty cycle compensated values calculated from the average (measured) values. Max/Min Value

| Mode        | Rate | #Ch | Freq [MHz] | Antenna      | RU config. | Average Conducted Output Power [dBm] | Avg Max* Conducted Output Power [dBm] | Avg Max*. EIRP [dBm] | Avg Max* Conducted Power [mW] |
|-------------|------|-----|------------|--------------|------------|--------------------------------------|---------------------------------------|----------------------|-------------------------------|
| 802.11ax80  | HE0  | 106 | 5530       | SISO A       | Full       | 18.43                                | 18.43                                 | 23.43                | 69.66                         |
|             |      |     |            |              | 484/65     | 19.99                                | 19.99                                 | 24.99                | 99.77                         |
|             |      |     |            | SISO B       | Full       | 18.31                                | 18.31                                 | 23.31                | 67.76                         |
|             |      |     |            |              | 484/65     | 19.08                                | 19.08                                 | 24.08                | 80.91                         |
|             |      |     |            | MIMO A       | Full       | 21.04                                | 21.04                                 | 26.04                | 127.06                        |
|             |      |     |            |              | 484/65     | 21.03                                | 21.03                                 | 26.03                | 126.77                        |
|             |      |     |            | MIMO B       | Full       | 15.47                                | 15.60                                 | 20.60                | 36.29                         |
|             |      |     |            |              | 484/65     | 17.46                                | 17.59                                 | 22.59                | 57.38                         |
|             |      |     |            | Combined A+B | Full       | 15.47                                | 15.60                                 | 20.60                | 36.29                         |
|             |      |     |            |              | 484/65     | 15.87                                | 16.00                                 | 21.00                | 39.79                         |
|             |      | 122 | 5610       | SISO A       | Full       | 18.48                                | 18.61                                 | 23.61                | 72.58                         |
|             |      |     |            | SISO B       | Full       | 19.75                                | 19.88                                 | 24.88                | 97.17                         |
|             |      |     |            | MIMO A       | Full       | 20.82                                | 20.95                                 | 25.95                | 124.39                        |
|             |      |     |            | MIMO B       | Full       | 20.71                                | 20.84                                 | 25.84                | 121.28                        |
|             |      |     |            | Combined A+B | Full       | 23.78                                | 23.90                                 | 28.90                | 245.67                        |
| 802.11ax160 | HE0  | 114 | 5570       | SISO A       | Full       | 16.25                                | 16.38                                 | 21.38                | 43.43                         |
|             |      |     |            |              | 996/67     | 17.12                                | 17.25                                 | 22.25                | 53.06                         |
|             |      |     |            |              | 996/S67    | 20.33                                | 20.46                                 | 25.46                | 111.12                        |
|             |      |     |            | SISO B       | Full       | 16.30                                | 16.43                                 | 21.43                | 43.93                         |
|             |      |     |            |              | 996/67     | 17.23                                | 17.36                                 | 22.36                | 54.42                         |
|             |      |     |            |              | 996/S67    | 20.50                                | 20.63                                 | 25.63                | 115.55                        |
|             |      |     |            | MIMO A       | Full       | 14.75                                | 15.02                                 | 20.02                | 31.76                         |
|             |      |     |            |              | 996/67     | 15.65                                | 15.92                                 | 20.92                | 39.07                         |
|             |      |     |            |              | 996/S67    | 19.16                                | 19.43                                 | 24.43                | 87.67                         |
|             |      |     |            | MIMO B       | Full       | 15.06                                | 15.33                                 | 20.33                | 34.11                         |
|             |      |     |            |              | 996/67     | 14.65                                | 14.92                                 | 19.92                | 31.04                         |
|             |      |     |            |              | 996/S67    | 19.37                                | 19.64                                 | 24.64                | 92.02                         |
|             |      |     |            | Combined A+B | Full       | 17.92                                | 18.19                                 | 23.19                | 65.87                         |
|             |      |     |            |              | 996/67     | 18.19                                | 18.46                                 | 23.46                | 70.11                         |
|             |      |     |            |              | 996/S67    | 22.28                                | 22.55                                 | 27.55                | 179.69                        |

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

Max/Min Value

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

| Mode       | Rate | Antenna  | Chain | Channel | Frequency (MHz) | Average Cond. Output Power - UNII-2C [dBm] | Max.* Cond. Output Power - UNII-2C [dBm] | Max.* EIRP UNII2C [dBm] | Max.* Cond. Output Power - UNII-2C [mW] |
|------------|------|----------|-------|---------|-----------------|--------------------------------------------|------------------------------------------|-------------------------|-----------------------------------------|
| 802.11n20  | HT0  | SISO     | A     | 144     | 5720            | 20.17                                      | 20.17                                    | 25.17                   | 103.99                                  |
|            |      |          | B     |         | 5720            | 20.58                                      | 20.58                                    | 25.58                   | 114.29                                  |
|            | HT8  | MIMO     | A     |         | 5720            | 17.53                                      | 17.53                                    | 22.53                   | 56.62                                   |
|            |      |          | B     |         | 5720            | 17.54                                      | 17.54                                    | 22.54                   | 56.75                                   |
|            |      | Combined | A+B   |         | 5720            | 20.55                                      | 20.55                                    | 25.55                   | 113.38                                  |
|            |      |          | A+B   |         | 5720            | 20.55                                      | 20.55                                    | 25.55                   | 113.38                                  |
| 802.11n40  | HT0  | SISO     | A     | 142     | 5710            | 20.90                                      | 20.90                                    | 25.90                   | 123.03                                  |
|            |      |          | B     |         | 5710            | 21.06                                      | 21.06                                    | 26.06                   | 127.64                                  |
|            | HT8  | MIMO     | A     |         | 5710            | 17.81                                      | 17.81                                    | 22.81                   | 60.39                                   |
|            |      |          | B     |         | 5710            | 17.97                                      | 17.97                                    | 22.97                   | 62.66                                   |
|            |      | Combined | A+B   |         | 5710            | 20.90                                      | 20.90                                    | 25.90                   | 123.06                                  |
|            |      |          | A+B   |         | 5710            | 20.90                                      | 20.90                                    | 25.90                   | 123.06                                  |
| 802.11ac80 | VHT0 | SISO     | A     | 138     | 5690            | 21.12                                      | 21.19                                    | 26.19                   | 131.52                                  |
|            |      |          | B     |         | 5690            | 20.99                                      | 21.06                                    | 26.06                   | 127.65                                  |
|            |      | MIMO     | A     |         | 5690            | 17.91                                      | 18.01                                    | 23.01                   | 63.26                                   |
|            |      |          | B     |         | 5690            | 18.09                                      | 18.19                                    | 23.19                   | 65.93                                   |
|            |      | Combined | A+B   |         | 5690            | 21.01                                      | 21.11                                    | 26.11                   | 129.19                                  |
|            |      |          | A+B   |         | 5690            | 21.01                                      | 21.11                                    | 26.11                   | 129.19                                  |
| 802.11ax20 | HE0  | SISO     | A     | 144     | 5720            | 20.24                                      | 20.24                                    | 25.24                   | 105.68                                  |
|            |      |          | B     |         | 5720            | 20.49                                      | 20.49                                    | 25.49                   | 111.94                                  |
|            |      | MIMO     | A     |         | 5720            | 17.54                                      | 17.54                                    | 22.54                   | 56.75                                   |
|            |      |          | B     |         | 5720            | 17.44                                      | 17.44                                    | 22.44                   | 55.46                                   |
|            |      | Combined | A+B   |         | 5720            | 20.50                                      | 20.50                                    | 25.50                   | 112.22                                  |
|            |      |          | A+B   |         | 5720            | 20.50                                      | 20.50                                    | 25.50                   | 112.22                                  |
| 802.11ax40 | HE0  | SISO     | A     | 142     | 5710            | 20.55                                      | 20.55                                    | 25.55                   | 113.50                                  |
|            |      |          | B     |         | 5710            | 20.65                                      | 20.65                                    | 25.65                   | 116.14                                  |
|            |      | MIMO     | A     |         | 5710            | 17.46                                      | 17.46                                    | 22.46                   | 55.72                                   |
|            |      |          | B     |         | 5710            | 17.69                                      | 17.69                                    | 22.69                   | 58.75                                   |
|            |      | Combined | A+B   |         | 5710            | 20.59                                      | 20.59                                    | 25.59                   | 114.47                                  |
|            |      |          | A+B   |         | 5710            | 20.59                                      | 20.59                                    | 25.59                   | 114.47                                  |
| 802.11ax80 | HE0  | SISO     | A     | 138     | 5690            | 20.87                                      | 20.87                                    | 25.87                   | 122.18                                  |
|            |      |          | B     |         | 5690            | 20.73                                      | 20.73                                    | 25.73                   | 118.30                                  |
|            |      | MIMO     | A     |         | 5690            | 17.97                                      | 18.10                                    | 23.10                   | 64.53                                   |
|            |      |          | B     |         | 5690            | 17.88                                      | 18.01                                    | 23.01                   | 63.21                                   |
|            |      | Combined | A+B   |         | 5690            | 20.94                                      | 21.06                                    | 26.06                   | 127.74                                  |
|            |      |          | A+B   |         | 5690            | 20.94                                      | 21.06                                    | 26.06                   | 127.74                                  |

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

Max/Min Value

**Maximum Power Spectral Density (PSD) – U-NII-2C channels**

| Mode        | Rate  | Channel | Freq [MHz] | Antenna      | Average conducted PSD [dBm/MHz] | Maximum* conducted PSD [dBm/MHz] |
|-------------|-------|---------|------------|--------------|---------------------------------|----------------------------------|
| 802.11a     | 6Mbps | 100     | 5500       | SISO A       | 10.06                           | 10.17                            |
|             |       |         |            | SISO B       | 9.89                            | 10.00                            |
|             |       | 120     | 5600       | SISO A       | 10.10                           | 10.21                            |
|             |       |         |            | SISO B       | 10.16                           | 10.27                            |
|             |       | 140     | 5700       | SISO A       | 9.85                            | 9.96                             |
|             |       |         |            | SISO B       | 9.71                            | 9.82                             |
| 802.11n20   | HT0   | 100     | 5500       | SISO A       | 9.66                            | 9.66                             |
|             |       |         |            | SISO B       | 9.50                            | 9.50                             |
|             |       | 120     | 5600       | SISO A       | 9.87                            | 9.87                             |
|             |       |         |            | SISO B       | 9.85                            | 9.85                             |
|             |       | 140     | 5700       | SISO A       | 9.49                            | 9.49                             |
|             |       |         |            | SISO B       | 9.57                            | 9.57                             |
|             | HT8   | 100     | 5500       | MIMO A       | 7.73                            | 7.73                             |
|             |       |         |            | MIMO B       | 7.60                            | 7.60                             |
|             |       |         |            | Combined A+B | 10.68                           | 10.68                            |
|             |       | 120     | 5600       | MIMO A       | 7.75                            | 7.75                             |
|             |       |         |            | MIMO B       | 7.64                            | 7.64                             |
|             |       |         |            | Combined A+B | 10.71                           | 10.71                            |
|             |       | 140     | 5700       | MIMO A       | 7.65                            | 7.65                             |
|             |       |         |            | MIMO B       | 7.72                            | 7.72                             |
|             |       |         |            | Combined A+B | 10.70                           | 10.70                            |
| 802.11n40   | HT0   | 102     | 5510       | SISO A       | 5.36                            | 5.36                             |
|             |       |         |            | SISO B       | 5.50                            | 5.50                             |
|             |       | 118     | 5590       | SISO A       | 6.66                            | 6.66                             |
|             |       |         |            | SISO B       | 6.65                            | 6.65                             |
|             |       | 134     | 5670       | SISO A       | 6.59                            | 6.59                             |
|             |       |         |            | SISO B       | 6.41                            | 6.41                             |
|             | HT8   | 102     | 5510       | MIMO A       | 3.88                            | 3.88                             |
|             |       |         |            | MIMO B       | 3.48                            | 3.48                             |
|             |       |         |            | Combined A+B | 6.69                            | 6.69                             |
|             |       | 118     | 5590       | MIMO A       | 6.35                            | 6.35                             |
|             |       |         |            | MIMO B       | 6.74                            | 6.74                             |
|             |       |         |            | Combined A+B | 9.56                            | 9.56                             |
|             |       | 134     | 5670       | MIMO A       | 5.66                            | 5.66                             |
|             |       |         |            | MIMO B       | 5.32                            | 5.32                             |
|             |       |         |            | Combined A+B | 8.50                            | 8.50                             |
| 802.11ac80  | VHT0  | 106     | 5530       | SISO A       | 0.67                            | 0.67                             |
|             |       |         |            | SISO B       | 0.46                            | 0.46                             |
|             |       |         |            | MIMO A       | -1.72                           | -1.62                            |
|             |       |         |            | MIMO B       | -1.71                           | -1.61                            |
|             |       |         |            | Combined A+B | 1.30                            | 1.40                             |
|             |       | 122     | 5610       | SISO A       | 3.54                            | 3.54                             |
|             |       |         |            | SISO B       | 3.51                            | 3.51                             |
|             |       |         |            | MIMO A       | 2.85                            | 2.95                             |
|             |       |         |            | MIMO B       | 2.97                            | 3.07                             |
|             |       |         |            | Combined A+B | 5.92                            | 6.02                             |
| 802.11ac160 | VHT0  | 114     | 5570       | SISO A       | -4.39                           | -4.28                            |
|             |       |         |            | SISO B       | -3.51                           | -3.40                            |
|             |       |         |            | MIMO A       | -5.68                           | -5.51                            |
|             |       |         |            | MIMO B       | -5.75                           | -5.58                            |
|             |       |         |            | Combined A+B | -2.70                           | -2.54                            |

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

| Mode       | Rate | Channel | Freq [MHz] | Antenna      | RU config. | Average conducted PSD [dBm/MHz] | Maximum* conducted PSD [dBm/MHz] |
|------------|------|---------|------------|--------------|------------|---------------------------------|----------------------------------|
| 802.11ax20 | HE0  | 100     | 5500       | SISO A       | Full       | 9.71                            | 9.71                             |
|            |      |         |            |              | 26/0       | 10.56                           | 10.56                            |
|            |      |         |            |              | 52/37      | 10.54                           | 10.54                            |
|            |      |         |            |              | 106/53     | 10.63                           | 10.63                            |
|            |      |         |            | SISO B       | Full       | 9.47                            | 9.47                             |
|            |      |         |            |              | 26/0       | 10.59                           | 10.59                            |
|            |      |         |            |              | 52/37      | 10.40                           | 10.40                            |
|            |      |         |            |              | 106/53     | 10.65                           | 10.65                            |
|            |      |         |            | MIMO A       | Full       | 7.60                            | 7.60                             |
|            |      |         |            |              | 26/0       | 7.86                            | 7.86                             |
|            |      |         |            |              | 52/37      | 7.74                            | 7.74                             |
|            |      |         |            |              | 106/53     | 7.00                            | 7.00                             |
|            |      |         |            | MIMO B       | Full       | 7.70                            | 7.70                             |
|            |      |         |            |              | 26/0       | 7.70                            | 7.70                             |
|            |      |         |            |              | 52/37      | 7.87                            | 7.87                             |
|            |      |         |            |              | 106/53     | 7.43                            | 7.43                             |
|            |      |         |            | Combined A+B | Full       | 10.66                           | 10.66                            |
|            |      |         |            |              | 26/0       | 10.79                           | 10.79                            |
|            |      |         |            |              | 52/37      | 10.82                           | 10.82                            |
|            |      |         |            |              | 106/53     | 10.23                           | 10.23                            |
|            |      | 120     | 5600       | SISO A       | Full       | 9.75                            | 9.75                             |
|            |      |         |            | SISO B       | Full       | 9.82                            | 9.82                             |
|            |      |         |            | MIMO A       | Full       | 7.67                            | 7.67                             |
|            |      |         |            | MIMO B       | Full       | 7.59                            | 7.59                             |
|            |      |         |            | Combined A+B | Full       | 10.64                           | 10.64                            |
|            |      | 140     | 5700       | SISO A       | Full       | 9.37                            | 9.37                             |
|            |      |         |            |              | 26/8       | 10.48                           | 10.48                            |
|            |      |         |            |              | 52/40      | 10.69                           | 10.69                            |
|            |      |         |            |              | 106/54     | 10.51                           | 10.51                            |
|            |      |         |            | SISO B       | Full       | 9.54                            | 9.54                             |
|            |      |         |            |              | 26/8       | 10.60                           | 10.60                            |
|            |      |         |            |              | 52/40      | 10.58                           | 10.58                            |
|            |      |         |            |              | 106/54     | 10.75                           | 10.75                            |
|            |      |         |            | MIMO A       | Full       | 7.83                            | 7.83                             |
|            |      |         |            |              | 26/8       | 7.66                            | 7.66                             |
|            |      |         |            |              | 52/40      | 7.53                            | 7.53                             |
|            |      |         |            |              | 106/54     | 7.65                            | 7.65                             |
|            |      |         |            | MIMO B       | Full       | 7.65                            | 7.65                             |
|            |      |         |            |              | 26/8       | 7.75                            | 7.75                             |
|            |      |         |            |              | 52/40      | 7.80                            | 7.80                             |
|            |      |         |            |              | 106/54     | 7.62                            | 7.62                             |
|            |      |         |            | Combined A+B | Full       | 10.75                           | 10.75                            |
|            |      |         |            |              | 26/8       | 10.72                           | 10.72                            |
|            |      |         |            |              | 52/40      | 10.68                           | 10.68                            |
|            |      |         |            |              | 106/54     | 10.65                           | 10.65                            |
| 802.11ax40 | HE0  | 102     | 5510       | SISO A       | Full       | 5.31                            | 5.31                             |
|            |      |         |            |              | 242/61     | 9.75                            | 9.75                             |
|            |      |         |            | SISO B       | Full       | 5.17                            | 5.17                             |
|            |      |         |            |              | 242/61     | 9.87                            | 9.87                             |
|            |      |         |            | MIMO A       | Full       | 3.18                            | 3.18                             |
|            |      |         |            |              | 242/61     | 7.94                            | 7.94                             |
|            |      |         |            | MIMO B       | Full       | 3.05                            | 3.05                             |
|            |      |         |            |              | 242/61     | 7.96                            | 7.96                             |
|            |      |         |            | Combined A+B | Full       | 6.13                            | 6.13                             |
|            |      |         |            |              | 242/61     | 10.96                           | 10.96                            |
|            |      | 118     | 5590       | SISO A       | Full       | 6.47                            | 6.47                             |
|            |      |         |            | SISO B       | Full       | 6.45                            | 6.45                             |
|            |      |         |            | MIMO A       | Full       | 6.40                            | 6.40                             |
|            |      |         |            | MIMO B       | Full       | 6.29                            | 6.29                             |
|            |      | 134     | 5670       | Combined A+B | Full       | 9.36                            | 9.36                             |
|            |      |         |            |              | Full       | 6.58                            | 6.58                             |
|            |      |         |            | SISO A       | 242/62     | 9.81                            | 9.81                             |
|            |      |         |            | SISO B       | Full       | 6.35                            | 6.35                             |
|            |      |         |            |              | 242/62     | 9.65                            | 9.65                             |
|            |      |         |            | MIMO A       | Full       | 5.56                            | 5.56                             |
|            |      |         |            |              | 242/62     | 7.80                            | 7.80                             |
|            |      |         |            | MIMO B       | Full       | 4.66                            | 4.66                             |
|            |      |         |            |              | 242/62     | 7.52                            | 7.52                             |
|            |      |         |            | Combined A+B | Full       | 8.14                            | 8.14                             |
|            |      |         |            |              | 242/62     | 10.67                           | 10.67                            |

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

| Mode        | Rate | Channel | Freq [MHz] | Antenna      | RU config. | Average conducted PSD [dBm/MHz] | Maximum* conducted PSD [dBm/MHz] |
|-------------|------|---------|------------|--------------|------------|---------------------------------|----------------------------------|
| 802.11ax80  | HE0  | 106     | 5530       | SISO A       | Full       | 0.84                            | 0.84                             |
|             |      |         |            |              | 484/65     | 5.43                            | 5.43                             |
|             |      |         |            | SISO B       | Full       | 0.72                            | 0.72                             |
|             |      |         |            |              | 484/65     | 4.53                            | 4.53                             |
|             |      |         |            | MIMO A       | Full       | -2.10                           | -1.97                            |
|             |      |         |            |              | 484/65     | 2.89                            | 3.02                             |
|             |      |         |            | MIMO B       | Full       | -2.11                           | -1.98                            |
|             |      |         |            |              | 484/65     | 1.35                            | 1.48                             |
|             |      |         |            | Combined A+B | Full       | 0.91                            | 1.03                             |
|             |      |         |            |              | 484/65     | 5.20                            | 5.33                             |
|             |      | 122     | 5610       | SISO A       | Full       | 3.45                            | 3.45                             |
|             |      |         |            | SISO B       | Full       | 3.48                            | 3.48                             |
|             |      |         |            | MIMO A       | Full       | 3.28                            | 3.41                             |
|             |      |         |            | MIMO B       | Full       | 3.15                            | 3.28                             |
|             |      |         |            | Combined A+B | Full       | 6.23                            | 6.35                             |
| 802.11ax160 | HE0  | 114     | 5570       | SISO A       | Full       | -4.20                           | -4.07                            |
|             |      |         |            |              | 996/67     | -0.46                           | -0.33                            |
|             |      |         |            |              | 996/S67    | 2.65                            | 2.78                             |
|             |      |         |            | SISO B       | Full       | -4.19                           | -4.06                            |
|             |      |         |            |              | 996/67     | -0.29                           | -0.16                            |
|             |      |         |            |              | 996/S67    | 2.88                            | 3.01                             |
|             |      |         |            | MIMO A       | Full       | -5.71                           | -5.44                            |
|             |      |         |            |              | 996/67     | -1.83                           | -1.56                            |
|             |      |         |            |              | 996/S67    | 1.51                            | 1.78                             |
|             |      |         |            | MIMO B       | Full       | -5.45                           | -5.18                            |
|             |      |         |            |              | 996/67     | -2.92                           | -2.65                            |
|             |      |         |            |              | 996/S67    | 1.78                            | 2.05                             |
|             |      |         |            | Combined A+B | Full       | -2.57                           | -2.30                            |
|             |      |         |            |              | 996/67     | 0.67                            | 0.94                             |
|             |      |         |            |              | 996/S67    | 4.66                            | 4.93                             |

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



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

| Mode       | Rate     | Channel | Frequency (MHz) | Antenna  | Chain | Average conducted PSD UNII-2C [dBm/MHz] | Maximum* conducted PSD UNII-2C [dBm/MHz] |
|------------|----------|---------|-----------------|----------|-------|-----------------------------------------|------------------------------------------|
| 802.11n20  | HT0      | 144     | 5720            | SISO     | A     | 9.80                                    | 9.80                                     |
|            |          |         |                 |          | B     | 10.22                                   | 10.22                                    |
|            | HT8      |         |                 | MIMO     | A     | 7.18                                    | 7.18                                     |
|            |          |         |                 |          | B     | 7.18                                    | 7.00                                     |
|            | Combined |         |                 | A+B      | 10.19 | 10.10                                   |                                          |
| 802.11n40  | HT0      | 142     | 5710            | SISO     | A     | 6.66                                    | 6.66                                     |
|            |          |         |                 |          | B     | 6.78                                    | 6.78                                     |
|            | HT8      |         |                 | MIMO     | A     | 6.68                                    | 6.68                                     |
|            |          |         |                 |          | B     | 3.55                                    | 3.55                                     |
|            | Combined |         |                 | A+B      | 3.78  | 3.78                                    |                                          |
| 802.11ac80 | VHT0     | 138     | 5690            | SISO     | A     | 3.68                                    | 3.75                                     |
|            |          |         |                 |          | B     | 3.55                                    | 3.62                                     |
|            |          |         |                 | MIMO     | A     | 0.57                                    | 0.67                                     |
|            |          |         |                 |          | B     | 0.66                                    | 0.76                                     |
|            |          |         |                 | Combined | A+B   | 3.63                                    | 3.73                                     |
| 802.11ax20 | HE0      | 144     | 5720            | SISO     | A     | 9.75                                    | 9.75                                     |
|            |          |         |                 |          | B     | 9.99                                    | 9.99                                     |
|            |          |         |                 | MIMO     | A     | 7.06                                    | 7.06                                     |
|            |          |         |                 |          | B     | 6.96                                    | 6.96                                     |
|            |          |         |                 | Combined | A+B   | 10.02                                   | 10.02                                    |
| 802.11ax40 | HE0      | 142     | 5710            | SISO     | A     | 6.18                                    | 6.18                                     |
|            |          |         |                 |          | B     | 5.67                                    | 5.67                                     |
|            |          |         |                 | MIMO     | A     | 6.20                                    | 6.20                                     |
|            |          |         |                 |          | B     | 3.07                                    | 3.07                                     |
|            |          |         |                 | Combined | A+B   | 3.30                                    | 3.30                                     |
| 802.11ax80 | HE0      | 138     | 5690            | SISO     | A     | 3.36                                    | 3.36                                     |
|            |          |         |                 |          | B     | 3.23                                    | 3.23                                     |
|            |          |         |                 | MIMO     | A     | 0.48                                    | 0.61                                     |
|            |          |         |                 |          | B     | 0.36                                    | 0.49                                     |
|            |          |         |                 | Combined | A+B   | 3.43                                    | 3.56                                     |

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

**See annex C.1.3 and C.1.4 for screenshot results**

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

#### Test limits

| FCC part                                                                                                                                                                                                                                                                                   | RSS clause                     | Limits                                                                                                                                                                                                                                                                                                                                                                                              |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------|-----------------------|-------|-----|----|---|--------|-----|------|---|---------|-----|----|---|-----------|-----|----|---|
| 15.407 (b)<br>(3)                                                                                                                                                                                                                                                                          | RSS-247<br>Clause 6.2.3<br>(2) | For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.                                                                                                                                                                                                                                                    |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 15.209                                                                                                                                                                                                                                                                                     | RSS-GEN<br>A1,<br>Clause 8.9   | 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):                                                                                                                                                                                                                                        |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                | <table><tr><th>Freq Range<br/>(MHz)</th><th>Field Strength<br/>(μV/m)</th><th>Field Strength<br/>(dBμV/m)</th><th>Meas. Distance<br/>(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> | Freq Range<br>(MHz)      | Field Strength<br>(μV/m)   | Field Strength<br>(dBμV/m) | Meas. Distance<br>(m) | 30-88 | 100 | 40 | 3 | 88-216 | 150 | 43.5 | 3 | 216-960 | 200 | 46 | 3 | Above 960 | 500 | 54 | 3 |
|                                                                                                                                                                                                                                                                                            |                                | Freq Range<br>(MHz)                                                                                                                                                                                                                                                                                                                                                                                 | Field Strength<br>(μV/m) | Field Strength<br>(dBμV/m) | Meas. Distance<br>(m)      |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                | 30-88                                                                                                                                                                                                                                                                                                                                                                                               | 100                      | 40                         | 3                          |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                | 88-216                                                                                                                                                                                                                                                                                                                                                                                              | 150                      | 43.5                       | 3                          |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                | 216-960                                                                                                                                                                                                                                                                                                                                                                                             | 200                      | 46                         | 3                          |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| Above 960                                                                                                                                                                                                                                                                                  | 500                            | 54                                                                                                                                                                                                                                                                                                                                                                                                  | 3                        |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| The emission limits shown in the table above 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. |                                |                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 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.                                                                                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                |                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|                                                                                                                                                                                                                                                                                            |                                |                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                            |                            |                       |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |

#### Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the out of band 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.

For the lower and upper side of the out of band, the integration method was used as defined in the out of band measurements section II.G.3.d of KDB 789033. Tests were performed using both RMS and peak detectors.

For out of band emission measurements in MIMO mode the emission level of individual output is adjusted by 10 log (Nant) = 3dB for Nant = 2 which is equivalent to compare the individual output emission level to the limit minus 3dB. The same approach is applied for peak and RMS detectors.

In case of out of band measurements falling in restricted bands, the declared antenna gain is also compensated in the graph.

The following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBμV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

| §15.209(a)       |              |                                   | Converted values                     |             |
|------------------|--------------|-----------------------------------|--------------------------------------|-------------|
| Freq Range (MHz) | Distance (m) | Field strength (microvolts/meter) | Field strength (dB microvolts/meter) | Power (dBm) |
| Above 960        | 3            | 500                               | 53.98                                | -41.2       |

See annec C.1.5 for screenshot results

## B.2.4 Radiated spurious emission

### Standard references

| FCC part         | RSS clause                     | Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
|------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|-------------------------|--------------------|-------|-----|----|---|--------|-----|------|---|---------|-----|----|---|-----------|-----|----|---|
| 15.407 (b) (3)   | RSS-247<br>Clause 6.2.3<br>(2) | For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                       |                         |                    |       |     |    |   |        |     |      |   |         |     |    |   |           |     |    |   |
| 15.209           | RSS-GEN A1,<br>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 0 and using the low, middle and high channels.

For 802.11ax20, 802.11ax40, 802.11ax80 and 802.11ax160 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, 802.11ac80 and 802.11ac160 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**Radiated spurious - 30 MHz – 1 GHz****Radiated Spurious – All modes**

| Frequency | Quasi-Peak | Limit  | Margin | Polarization |
|-----------|------------|--------|--------|--------------|
| MHz       | dBμV/m     | dBμV/m | dB     | ---          |
| 73.2      | 31.3       | 40.0   | 8.7    | V            |

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

802.11a**1 GHz – 40 GHz, 802.11a, 6Mbps, Chain A****Radiated Spurious – CH100**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3373.0    | 59.2    | ---     | 68.2   | 8.9    | H     |
| 11005.2   | ---     | 43.1    | 54.0   | 10.9   | V     |
| 11006.2   | 53.1    | ---     | 74.0   | 20.9   | V     |
| 39576.2   | ---     | 46.1    | 54.0   | 7.9    | V     |
| 39613.3   | 56.7    | ---     | 74.0   | 17.3   | H     |

**Radiated Spurious – CH120**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3397.5    | 59.3    | ---     | 68.2   | 8.9    | V     |
| 11194.2   | 52.7    | ---     | 74.0   | 21.3   | V     |
| 11200.5   | ---     | 42.0    | 54.0   | 12.0   | V     |
| 39638.9   | ---     | 46.1    | 54.0   | 7.9    | H     |
| 39692.4   | 56.7    | ---     | 74.0   | 17.3   | H     |

**Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3396.5    | 59.2    | ---     | 68.2   | 9.0    | V     |
| 11402.5   | ---     | 42.5    | 54.0   | 11.5   | V     |
| 11403.5   | 52.3    | ---     | 74.0   | 21.7   | V     |
| 17099.1   | 53.0    | ---     | 68.2   | 15.2   | H     |
| 39558.4   | 56.9    | ---     | 74.0   | 17.1   | V     |
| 39629.7   | ---     | 46.1    | 54.0   | 7.9    | V     |

**1 GHz – 40 GHz, 802.11a, 6Mbps, Chain B****Radiated Spurious – CH100**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3400.0    | 60.7    | ---     | 68.2   | 7.5    | H     |
| 17844.4   | ---     | 43.1    | 54.0   | 10.9   | H     |
| 17844.4   | 55.3    | ---     | 74.0   | 18.7   | V     |
| 39524.6   | 56.3    | ---     | 74.0   | 17.7   | V     |
| 39642.2   | ---     | 46.1    | 54.0   | 7.8    | V     |

**Radiated Spurious – CH120**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3399.0    | 59.4    | ---     | 68.2   | 8.8    | H     |
| 17925.1   | ---     | 43.6    | 54.0   | 10.4   | V     |
| 17925.1   | 55.7    | ---     | 74.0   | 18.3   | V     |
| 39592.6   | 56.8    | ---     | 74.0   | 17.2   | V     |
| 39631.2   | ---     | 46.2    | 54.0   | 7.8    | H     |

**Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3391.5    | 59.1    | ---     | 68.2   | 9.1    | H     |
| 17104.4   | 55.0    | ---     | 68.2   | 13.2   | V     |
| 39602.2   | ---     | 45.8    | 54.0   | 8.2    | V     |
| 39653.8   | 57.7    | ---     | 74.0   | 16.3   | H     |

802.11n**1 GHz – 40 GHz, 802.11n20, HT0, Chain A****Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3388.5    | 58.8    | ---     | 68.2   | 9.4    | V     |
| 11399.1   | ---     | 42.5    | 54.0   | 11.5   | V     |
| 11399.1   | 52.5    | ---     | 74.0   | 21.5   | V     |
| 39651.4   | ---     | 46.3    | 54.0   | 7.7    | H     |
| 39664.4   | 56.5    | ---     | 74.0   | 17.5   | H     |

**1 GHz – 40 GHz, 802.11n20, HT0, Chain B****Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3397.0    | 57.6    | ---     | 68.2   | 10.6   | V     |
| 17097.6   | 53.4    | ---     | 68.2   | 14.8   | H     |
| 39622.0   | ---     | 46.3    | 54.0   | 7.7    | H     |
| 39642.2   | 57.5    | ---     | 74.0   | 16.5   | H     |

**1 GHz – 40 GHz, 802.11n20, HT8, Chain A+B****Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 2433.0    | 57.2    | ---     | 68.2   | 11.0   | H     |
| 11400.1   | 53.8    | ---     | 74.0   | 20.2   | V     |
| 11400.1   | ---     | 44.6    | 54.0   | 9.4    | V     |
| 39628.3   | ---     | 45.5    | 54.0   | 8.6    | H     |
| 39628.3   | 56.9    | ---     | 74.0   | 17.1   | V     |

**1 GHz – 40 GHz, 802.11n40, HT0, Chain A****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3393.0    | 57.8    | ---     | 68.2   | 10.4   | V     |
| 11019.7   | 52.8    | ---     | 74.0   | 21.2   | V     |
| 11022.6   | ---     | 42.2    | 54.0   | 11.8   | V     |
| 39649.5   | ---     | 45.8    | 54.0   | 8.2    | V     |
| 39653.3   | 56.5    | ---     | 74.0   | 17.5   | V     |

**1 GHz – 40 GHz, 802.11n40, HT0, Chain B****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3390.5    | 57.9    | ---     | 68.2   | 10.3   | V     |
| 17989.4   | ---     | 44.1    | 54.0   | 9.9    | V     |
| 17989.4   | 55.8    | ---     | 74.0   | 18.2   | H     |
| 39507.2   | ---     | 46.0    | 54.0   | 8.0    | V     |
| 39571.4   | 56.9    | ---     | 74.0   | 17.1   | V     |

**1 GHz – 40 GHz, 802.11n40, HT8, Chain A+B****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3377.5    | 57.7    | ---     | 68.2   | 10.5   | V     |
| 11017.8   | 51.6    | ---     | 74.0   | 22.4   | V     |
| 11017.8   | ---     | 42.7    | 54.0   | 11.3   | V     |
| 39716.5   | 56.8    | ---     | 74.0   | 17.2   | H     |
| 39718.4   | ---     | 45.2    | 54.0   | 8.8    | V     |

802.11ac**1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A****Radiated Spurious – CH106**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3381.0    | 57.6    | ---     | 68.2   | 10.6   | V     |
| 11059.3   | 50.6    | ---     | 74.0   | 23.4   | V     |
| 11059.3   | ---     | 40.8    | 54.0   | 13.2   | V     |
| 39587.3   | ---     | 46.1    | 54.0   | 7.9    | V     |
| 39641.3   | 56.9    | ---     | 74.0   | 17.1   | V     |

**1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B****Radiated Spurious – CH106**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3393.5    | 58.8    | ---     | 68.2   | 9.4    | H     |
| 17891.7   | ---     | 42.9    | 54.0   | 11.1   | V     |
| 17891.7   | 55.5    | ---     | 74.0   | 18.6   | H     |
| 39599.8   | 57.2    | ---     | 74.0   | 16.8   | H     |
| 39646.1   | ---     | 46.3    | 54.0   | 7.7    | V     |



**1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A+B****Radiated Spurious – CH106**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3379.0    | 57.9    | ---     | 68.2   | 10.3   | V     |
| 11037.6   | ---     | 39.5    | 54.0   | 14.5   | V     |
| 11037.6   | 51.4    | ---     | 74.0   | 22.6   | V     |
| 39556.4   | 57.1    | ---     | 74.0   | 16.9   | H     |
| 39556.4   | ---     | 45.0    | 54.0   | 8.9    | H     |

**1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A****Radiated Spurious – CH114**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3395.0    | 57.5    | ---     | 68.2   | 10.7   | V     |
| 17930.9   | ---     | 42.9    | 54.0   | 11.2   | H     |
| 17930.9   | 55.9    | ---     | 74.0   | 18.1   | V     |
| 39493.3   | ---     | 45.8    | 54.0   | 8.2    | H     |
| 39626.3   | 57.2    | ---     | 74.0   | 16.8   | V     |

**1 GHz – 40 GHz, 802.11ac160, VHT0, Chain B****Radiated Spurious – CH114**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3390.5    | 57.8    | ---     | 68.2   | 10.4   | H     |
| 17818.8   | 55.2    | ---     | 74.0   | 18.8   | H     |
| 17819.2   | ---     | 43.2    | 54.0   | 10.8   | H     |
| 39623.9   | 57.0    | ---     | 74.0   | 17.0   | V     |
| 39633.1   | ---     | 46.4    | 54.0   | 7.6    | H     |

**1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A+B****Radiated Spurious – CH114**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3379.5    | 57.7    | ---     | 68.2   | 10.5   | V     |
| 11049.7   | 48.5    | ---     | 74.0   | 25.5   | V     |
| 11049.7   | ---     | 38.7    | 54.0   | 15.3   | V     |
| 39658.2   | 56.7    | ---     | 74.0   | 17.3   | H     |
| 39658.2   | ---     | 46.4    | 54.0   | 7.6    | H     |

802.11ax**1 GHz – 40 GHz, 802.11ax20, HE0, Chain A****Radiated Spurious – CH100**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3398.0    | 57.8    | ---     | 68.2   | 10.4   | H     |
| 6865.4    | 47.1    | ---     | 68.2   | 21.1   | V     |
| 10982.5   | 55.2    | ---     | 74.0   | 18.8   | V     |
| 10982.5   | ---     | 47.5    | 54.0   | 6.5    | V     |
| 16476.0   | 53.8    | ---     | 68.2   | 14.4   | V     |
| 39652.9   | ---     | 46.1    | 54.0   | 7.8    | V     |
| 39713.6   | 57.4    | ---     | 74.0   | 16.6   | H     |

**Radiated Spurious – CH120**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3398.5    | 58.0    | ---     | 68.2   | 10.2   | V     |
| 11183.5   | 53.9    | ---     | 74.0   | 20.1   | V     |
| 11183.5   | ---     | 43.9    | 54.0   | 10.1   | H     |
| 16774.3   | 54.4    | ---     | 68.2   | 13.8   | V     |
| 39613.8   | 57.0    | ---     | 74.0   | 16.9   | V     |
| 39649.0   | ---     | 46.3    | 54.0   | 7.7    | V     |

**Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3383.5    | 57.5    | ---     | 68.2   | 10.7   | V     |
| 11382.7   | 56.0    | ---     | 74.0   | 18.0   | V     |
| 11382.7   | ---     | 48.3    | 54.0   | 5.7    | V     |
| 39655.3   | ---     | 46.5    | 54.0   | 7.5    | V     |
| 39667.3   | 57.9    | ---     | 74.0   | 16.1   | H     |

**1 GHz – 40 GHz, 802.11ax20, HE0, Chain B****Radiated Spurious – CH100**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3386.5    | 57.9    | ---     | 68.2   | 10.3   | H     |
| 6866.4    | 47.1    | ---     | 68.2   | 21.1   | V     |
| 6874.6    | 46.9    | ---     | 68.2   | 21.3   | V     |
| 10982.0   | 48.3    | ---     | 74.0   | 25.7   | V     |
| 10982.5   | ---     | 38.6    | 54.0   | 15.4   | H     |
| 16475.1   | 51.5    | ---     | 68.2   | 16.7   | H     |
| 39684.2   | 57.5    | ---     | 74.0   | 16.5   | H     |
| 39685.6   | ---     | 46.1    | 54.0   | 7.9    | H     |

**Radiated Spurious – CH120**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3398.0    | 58.5    | ---     | 68.2   | 9.7    | V     |
| 11182.1   | 50.9    | ---     | 74.0   | 23.1   | V     |
| 11183.1   | ---     | 40.9    | 54.0   | 13.1   | V     |
| 16775.7   | 54.1    | ---     | 68.2   | 14.1   | V     |
| 39508.7   | 57.3    | ---     | 74.0   | 16.7   | H     |
| 39640.3   | ---     | 46.2    | 54.0   | 7.8    | H     |

**Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3390.0    | 58.4    | ---     | 68.2   | 9.8    | H     |
| 11382.2   | 50.9    | ---     | 74.0   | 23.1   | V     |
| 11383.2   | ---     | 40.2    | 54.0   | 13.8   | V     |
| 17075.4   | 56.2    | ---     | 68.2   | 12.0   | V     |
| 39620.1   | ---     | 46.9    | 54.0   | 7.1    | V     |
| 39664.9   | 56.8    | ---     | 74.0   | 17.2   | H     |

**1 GHz – 40 GHz, 802.11ax20, HE0, Chain A+B****Radiated Spurious – CH140**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3374.5    | 59.5    | ---     | 68.2   | 8.7    | H     |
| 7121.1    | 47.9    | ---     | 68.2   | 20.3   | V     |
| 11383.2   | 56.8    | ---     | 74.0   | 17.2   | H     |
| 11383.2   | ---     | 49.9    | 54.0   | 4.1    | H     |
| 17073.5   | 53.5    | ---     | 68.2   | 14.7   | V     |
| 22766.6   | 49.1    | ---     | 74.0   | 24.9   | V     |
| 22766.6   | ---     | 38.3    | 54.0   | 15.7   | V     |

**1 GHz – 40 GHz, 802.11ax40, HE0, Chain A****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3389.5    | 57.4    | ---     | 68.2   | 10.8   | H     |
| 10983.9   | 55.4    | ---     | 74.0   | 18.6   | H     |
| 10983.9   | ---     | 47.0    | 54.0   | 7.0    | V     |
| 39609.5   | 56.7    | ---     | 74.0   | 17.3   | H     |
| 39662.0   | ---     | 46.1    | 54.0   | 7.9    | V     |

**Radiated Spurious – CH118**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3384.0    | 58.1    | ---     | 68.2   | 10.1   | V     |
| 11143.9   | ---     | 47.0    | 54.0   | 7.0    | H     |
| 11144.4   | 55.9    | ---     | 74.0   | 18.1   | H     |
| 16711.4   | 52.0    | ---     | 68.2   | 16.2   | V     |

**Radiated Spurious – CH134**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3386.5    | 57.7    | ---     | 68.2   | 10.5   | H     |
| 11303.9   | ---     | 41.5    | 54.0   | 12.6   | V     |
| 11304.9   | 50.3    | ---     | 74.0   | 23.7   | V     |
| 16955.0   | 58.2    | ---     | 68.2   | 10.0   | H     |
| 39643.7   | ---     | 46.4    | 54.0   | 7.6    | V     |
| 39745.4   | 57.1    | ---     | 74.0   | 16.9   | V     |

**1 GHz – 40 GHz, 802.11ax40, HE0, Chain B****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3396.0    | 58.4    | ---     | 68.2   | 9.8    | V     |
| 6865.0    | 46.4    | ---     | 68.2   | 21.8   | V     |
| 16478.5   | 52.7    | ---     | 68.2   | 15.5   | V     |
| 39635.0   | ---     | 46.2    | 54.0   | 7.8    | H     |
| 39666.8   | 56.9    | ---     | 74.0   | 17.1   | V     |

**Radiated Spurious – CH118**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3387.5    | 57.7    | ---     | 68.2   | 10.5   | H     |
| 11143.9   | 51.1    | ---     | 74.0   | 22.9   | H     |
| 11144.4   | ---     | 41.9    | 54.0   | 12.1   | H     |
| 16087.5   | 51.2    | ---     | 74.0   | 22.8   | H     |
| 16087.5   | ---     | 41.0    | 54.0   | 13.0   | H     |
| 39635.0   | ---     | 46.4    | 54.0   | 7.6    | V     |
| 39670.2   | 57.2    | ---     | 74.0   | 16.8   | H     |

**Radiated Spurious – CH134**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3389.0    | 58.3    | ---     | 68.2   | 9.9    | H     |
| 16956.5   | 58.8    | ---     | 68.2   | 9.4    | V     |
| 22607.5   | ---     | 38.2    | 54.0   | 15.8   | V     |
| 22607.9   | 49.8    | ---     | 74.0   | 24.2   | V     |

**1 GHz – 40 GHz, 802.11ax40, HE0, Chain A+B****Radiated Spurious – CH102**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3372.0    | 60.0    | ---     | 68.2   | 8.2    | V     |
| 6865.0    | 46.1    | ---     | 68.2   | 22.1   | H     |
| 10983.5   | 58.9    | ---     | 74.0   | 15.1   | V     |
| 10983.5   | ---     | 51.1    | 54.0   | 2.9    | V     |
| 16476.5   | 53.2    | ---     | 68.2   | 15.0   | V     |
| 21970.0   | 46.6    | ---     | 68.2   | 21.6   | V     |

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

### Radiated Spurious – CH106

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3394.5    | 57.9    | ---     | 68.2   | 10.3   | H     |
| 6868.8    | 48.9    | ---     | 68.2   | 19.3   | V     |
| 6887.2    | 46.2    | ---     | 68.2   | 22.0   | H     |
| 10983.9   | 53.5    | ---     | 74.0   | 20.5   | H     |
| 10983.9   | ---     | 46.9    | 54.0   | 7.1    | H     |
| 16477.0   | 54.1    | ---     | 68.2   | 14.1   | V     |
| 39494.7   | 57.5    | ---     | 74.0   | 16.5   | H     |
| 39624.9   | ---     | 45.6    | 54.0   | 8.3    | H     |

### Radiated Spurious – CH122

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3388.0    | 58.0    | ---     | 68.2   | 10.2   | V     |
| 11143.9   | 55.0    | ---     | 74.0   | 19.0   | H     |
| 11143.9   | ---     | 46.6    | 54.0   | 7.3    | H     |
| 16716.3   | 52.3    | ---     | 68.2   | 15.9   | V     |
| 22284.9   | 48.3    | ---     | 74.0   | 25.7   | V     |
| 22287.8   | ---     | 37.4    | 54.0   | 16.6   | H     |

### Radiated Spurious – CH138

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3388.5    | 57.8    | ---     | 68.2   | 10.4   | V     |
| 7074.7    | 46.8    | ---     | 68.2   | 21.4   | H     |
| 11303.4   | 51.8    | ---     | 74.0   | 22.2   | V     |
| 11304.9   | ---     | 42.1    | 54.0   | 11.9   | V     |
| 16957.0   | 59.1    | ---     | 68.2   | 9.1    | H     |
| 28388.6   | 51.4    | ---     | 68.2   | 16.8   | H     |

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

### Radiated Spurious – CH106

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 4114.1    | 51.6    | ---     | 74.0   | 22.4   | V     |
| 4114.6    | ---     | 41.8    | 54.0   | 12.2   | V     |
| 4132.0    | 49.8    | ---     | 74.0   | 24.2   | V     |
| 4132.4    | ---     | 40.3    | 54.0   | 13.7   | V     |
| 6868.8    | 48.0    | ---     | 68.2   | 20.2   | V     |
| 6887.2    | 46.4    | ---     | 68.2   | 21.8   | V     |
| 10983.9   | 47.6    | ---     | 74.0   | 26.4   | V     |
| 10983.9   | ---     | 38.7    | 54.0   | 15.3   | H     |
| 16478.0   | 53.0    | ---     | 68.2   | 15.2   | V     |
| 39501.5   | 57.0    | ---     | 74.0   | 17.0   | H     |
| 39655.8   | ---     | 46.2    | 54.0   | 7.8    | V     |

### Radiated Spurious – CH122

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3384.5    | 58.1    | ---     | 68.2   | 10.1   | H     |
| 11143.4   | 51.4    | ---     | 74.0   | 22.6   | V     |
| 11144.4   | ---     | 41.9    | 54.0   | 12.1   | H     |
| 16716.8   | 52.1    | ---     | 68.2   | 16.1   | V     |
| 39641.8   | ---     | 46.5    | 54.0   | 7.5    | H     |
| 39676.5   | 57.1    | ---     | 74.0   | 16.9   | V     |



**Radiated Spurious – CH138**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 3393.0    | 57.7    | ---     | 68.2   | 10.5   | H     |
| 7074.2    | 47.8    | ---     | 68.2   | 20.4   | V     |
| 11073.8   | ---     | 37.9    | 54.0   | 16.1   | V     |
| 11074.3   | 48.5    | ---     | 74.0   | 25.5   | V     |
| 16955.5   | 58.9    | ---     | 68.2   | 9.3    | V     |
| 22608.4   | 48.6    | ---     | 74.0   | 25.4   | V     |
| 22608.4   | ---     | 39.1    | 54.0   | 14.9   | V     |

**1 GHz – 40 GHz, 802.11ax80, HE0, Chain A+B****Radiated Spurious – CH106**

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBµV/m  | dBµV/m  | dBµV/m | dB     | ---   |
| 4113.7    | 50.6    | ---     | 74.0   | 23.4   | V     |
| 4114.6    | ---     | 41.0    | 54.0   | 13.1   | V     |
| 6868.8    | 48.4    | ---     | 68.2   | 19.8   | V     |
| 6887.2    | 46.1    | ---     | 68.2   | 22.1   | V     |
| 10983.9   | 58.1    | ---     | 74.0   | 15.9   | V     |
| 10983.9   | ---     | 49.0    | 54.0   | 5.0    | V     |
| 11007.1   | ---     | 38.7    | 54.0   | 15.3   | V     |
| 11007.1   | 51.6    | ---     | 74.0   | 22.4   | V     |
| 39697.7   | ---     | 45.0    | 54.0   | 9.0    | V     |
| 39697.7   | 57.0    | ---     | 74.0   | 17.0   | V     |

### 1 GHz – 40 GHz, 802.11ax160, HE0, Chain A

#### Radiated Spurious – CH114

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3388.0    | 58.1    | ---     | 68.2   | 10.1   | V     |
| 6874.1    | 50.5    | ---     | 68.2   | 17.7   | V     |
| 6912.3    | 45.8    | ---     | 68.2   | 22.4   | V     |
| 10983.9   | 53.8    | ---     | 74.0   | 20.2   | V     |
| 10983.9   | ---     | 47.4    | 54.0   | 6.6    | V     |
| 16476.0   | 52.8    | ---     | 68.2   | 15.4   | V     |
| 39483.1   | ---     | 46.1    | 54.0   | 7.9    | V     |
| 39572.8   | 56.9    | ---     | 74.0   | 17.1   | H     |

### 1 GHz – 40 GHz, 802.11ax160, HE0, Chain B

#### Radiated Spurious – CH114

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3378.5    | 57.7    | ---     | 68.2   | 10.5   | V     |
| 6874.6    | 48.8    | ---     | 68.2   | 19.4   | V     |
| 6912.3    | 46.3    | ---     | 68.2   | 21.9   | V     |
| 10983.9   | 48.2    | ---     | 74.0   | 25.8   | H     |
| 10983.9   | ---     | 38.9    | 54.0   | 15.1   | V     |
| 16501.7   | 52.4    | ---     | 68.2   | 15.8   | V     |
| 39641.3   | 57.1    | ---     | 74.0   | 16.9   | V     |
| 39664.9   | ---     | 46.1    | 54.0   | 7.9    | V     |

# 1 GHz – 40 GHz, 802.11ax160, HE0, Chain A+B

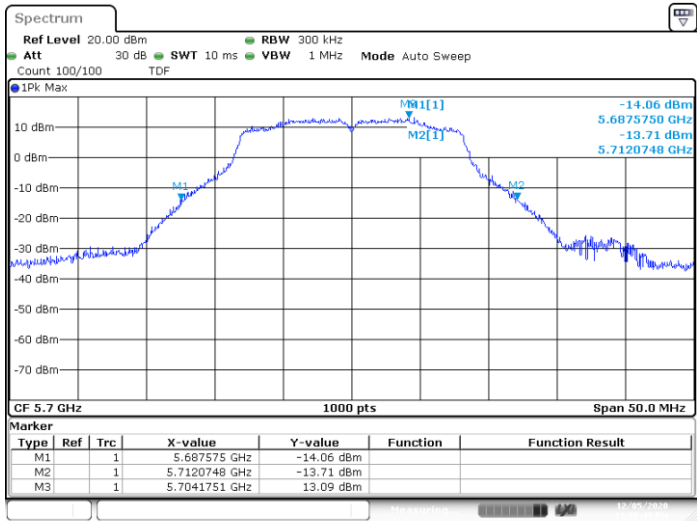
## Radiated Spurious – CH114

| Frequency | MaxPeak | Average | Limit  | Margin | Polar |
|-----------|---------|---------|--------|--------|-------|
| MHz       | dBμV/m  | dBμV/m  | dBμV/m | dB     | ---   |
| 3385.5    | 58.0    | ---     | 68.2   | 10.2   | V     |
| 6874.1    | 50.2    | ---     | 68.2   | 18.0   | V     |
| 6912.3    | 46.5    | ---     | 68.2   | 21.6   | H     |
| 10983.9   | 59.2    | ---     | 74.0   | 14.8   | V     |
| 10983.9   | ---     | 50.6    | 54.0   | 3.4    | V     |
| 39651.9   | 56.9    | ---     | 74.0   | 17.1   | V     |
| 39658.6   | ---     | 46.2    | 54.0   | 7.8    | H     |

# Annex C. System Plots

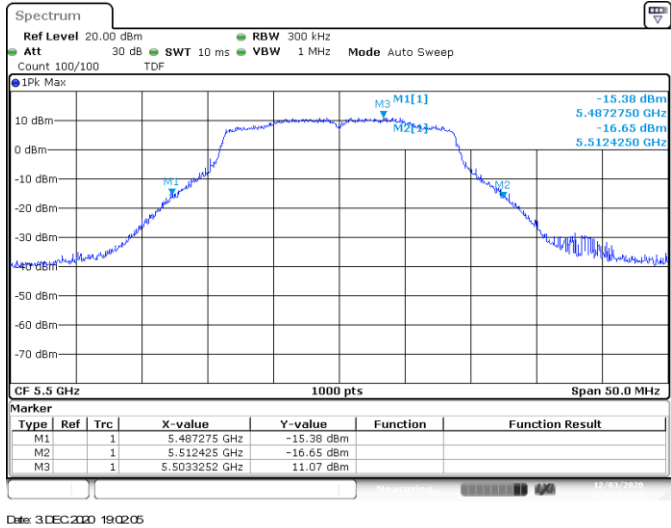
## C.1.1 26dB Bandwidth

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



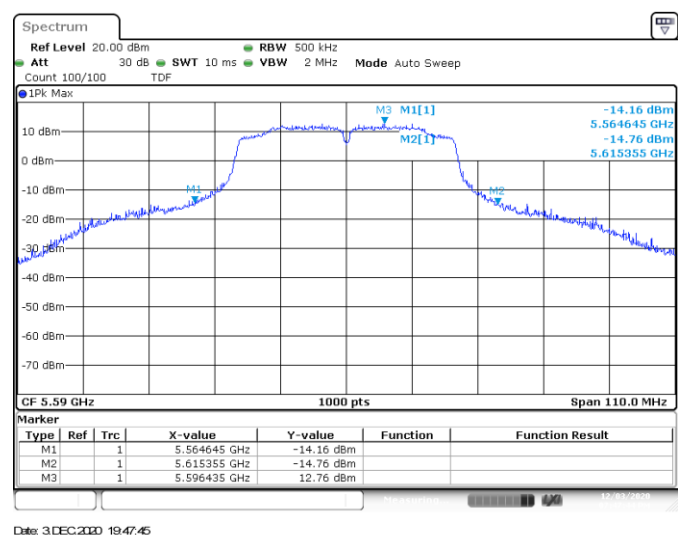
Channel 140

### MIMO-A, 802.11n20, HT8



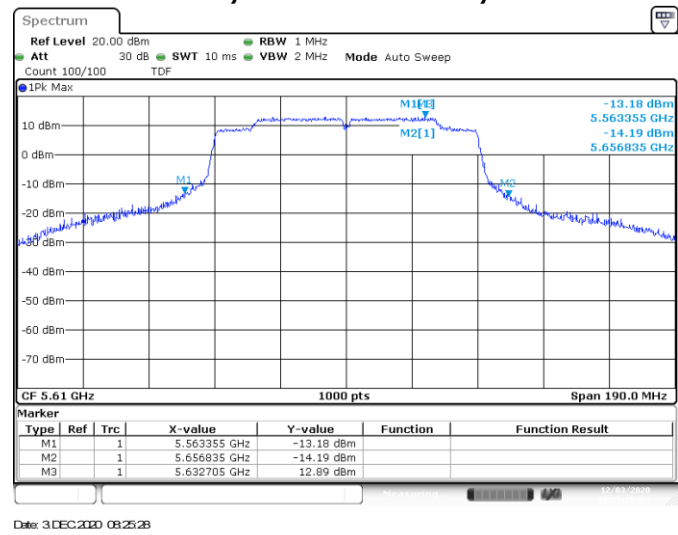
Channel 100

MIMO-A, 802.11n40, HT8



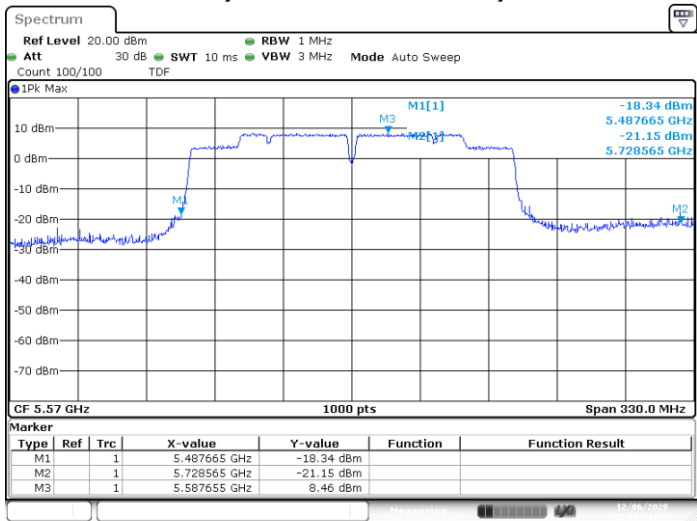
Channel 118

SISO-A, 802.11ac80, VHT0



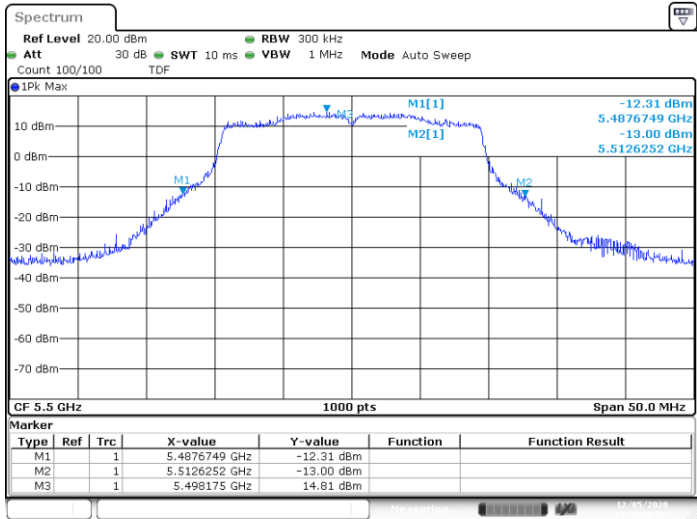
Channel 122

SISO-B, 802.11ac160, VHT0



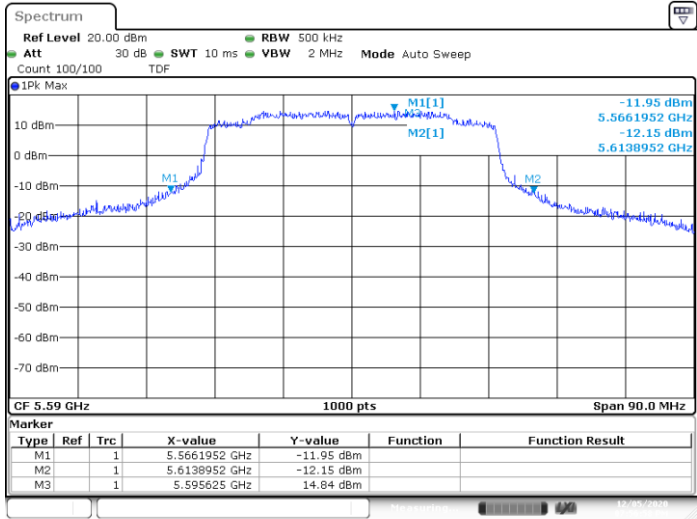
Channel 114

SISO-B, 802.11ax20, HE0



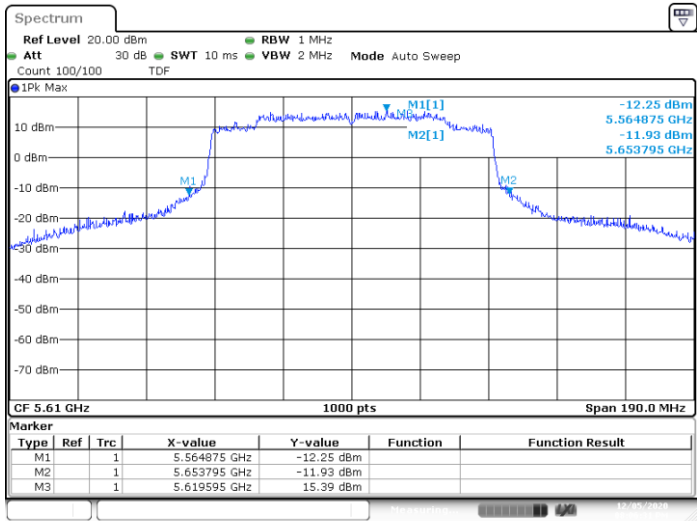
Channel 100

MIMO-B, 802.11ax40, HE0



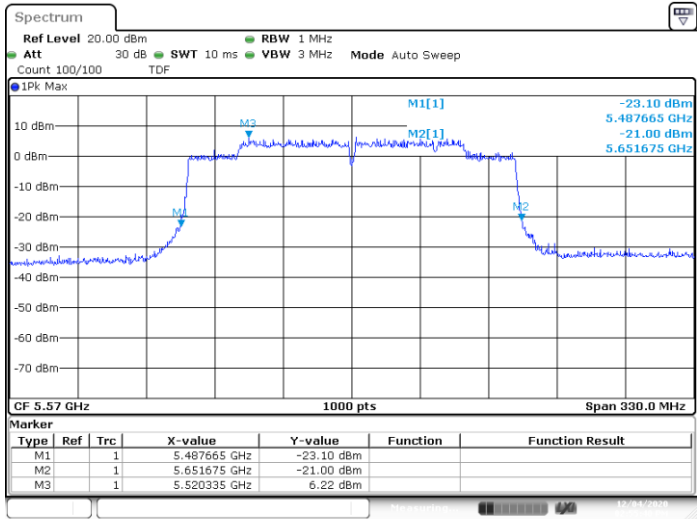
Channel 118

MIMO-B, 802.11ax80, HE0



Channel 122

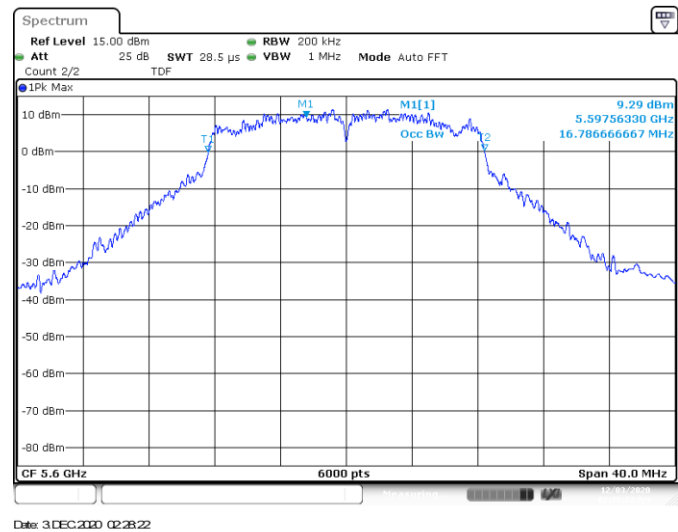
MIMO-A, 802.11ax160, HE0



Channel 114

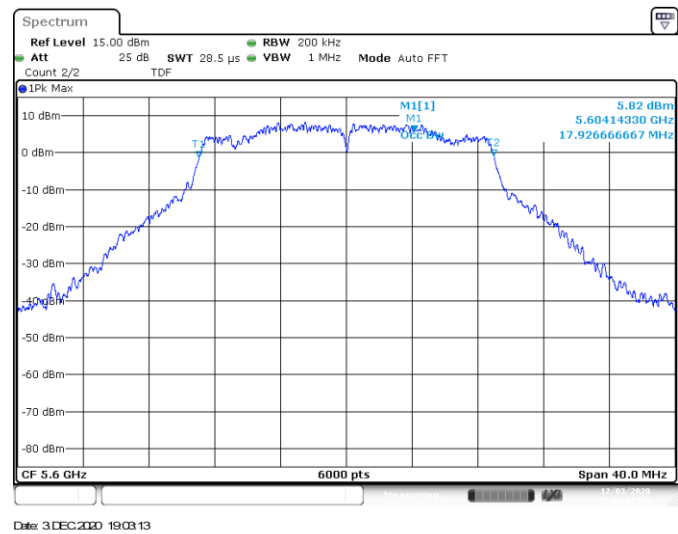
C.1.2 99% Bandwidth

SISO-A, 802.11a, 6Mbps



Channel 120

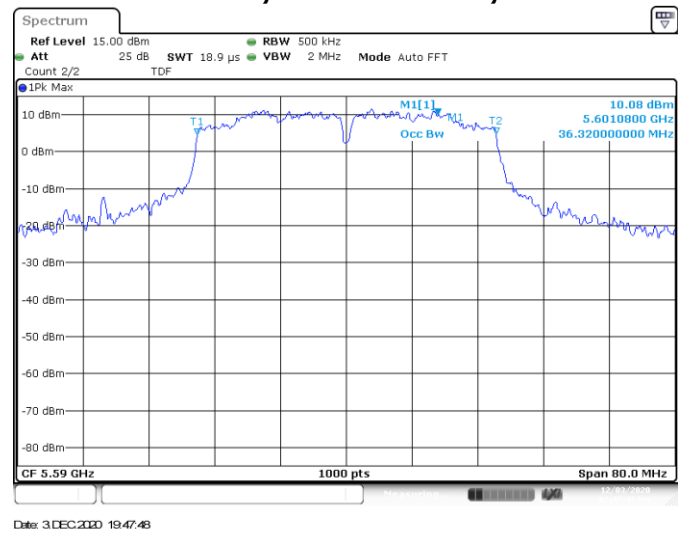
MIMO-A, 802.11n20, HT8



Channel 120

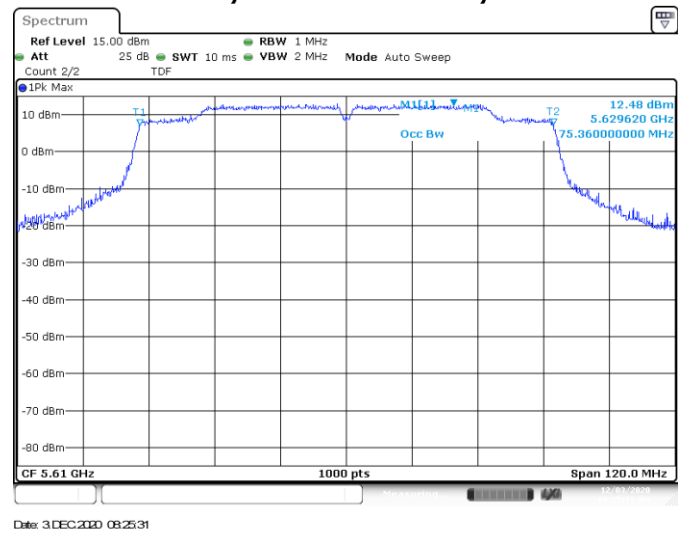


MIMO-A, 802.11n40, HT8



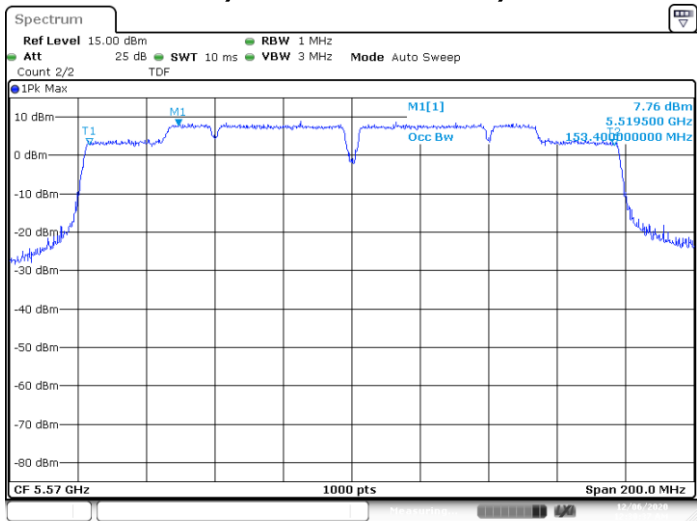
Channel 118

SISO-A, 802.11ac80, VHT0



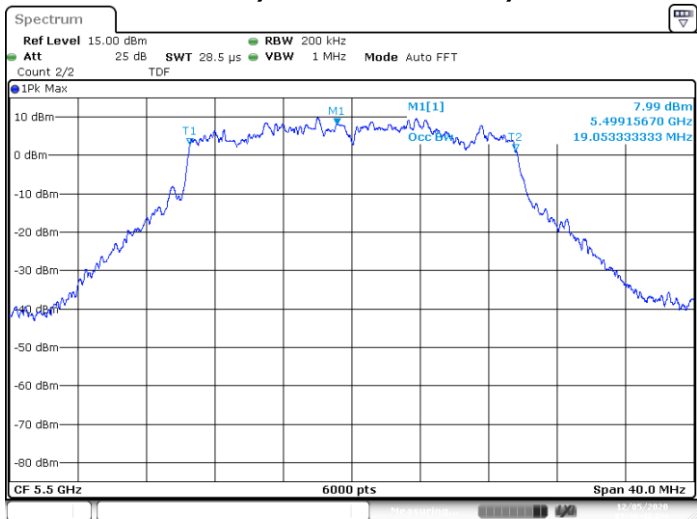
Channel 122

SISO-B, 802.11ac160, VHT0



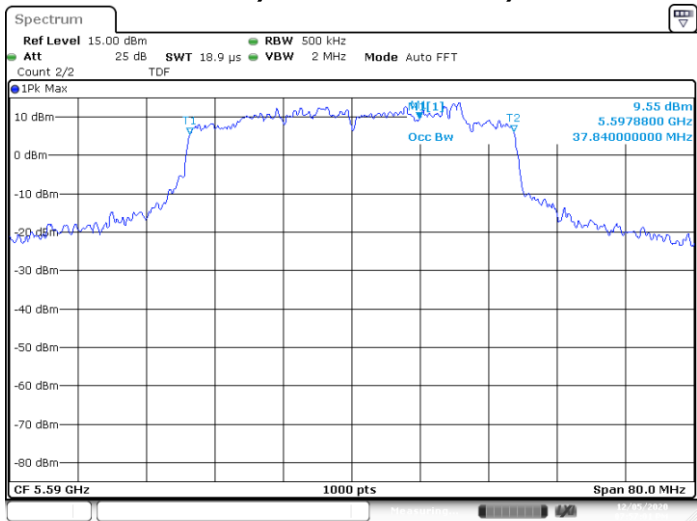
Channel 114

MIMO-B, 802.11ax20, HE0



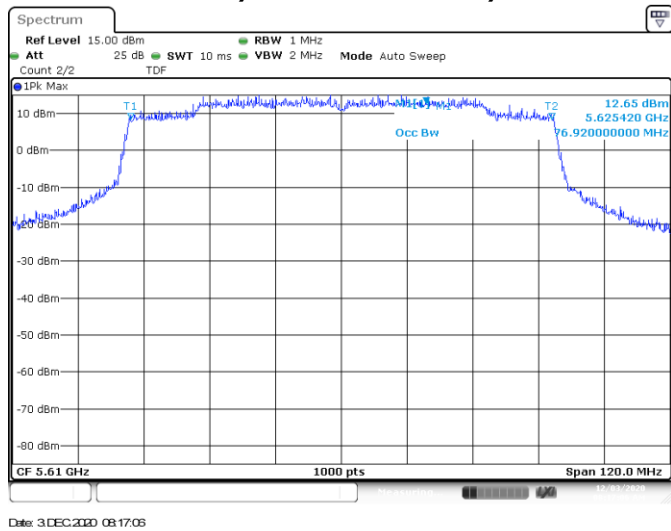
Channel 100

MIMO-B, 802.11ax40, HE0



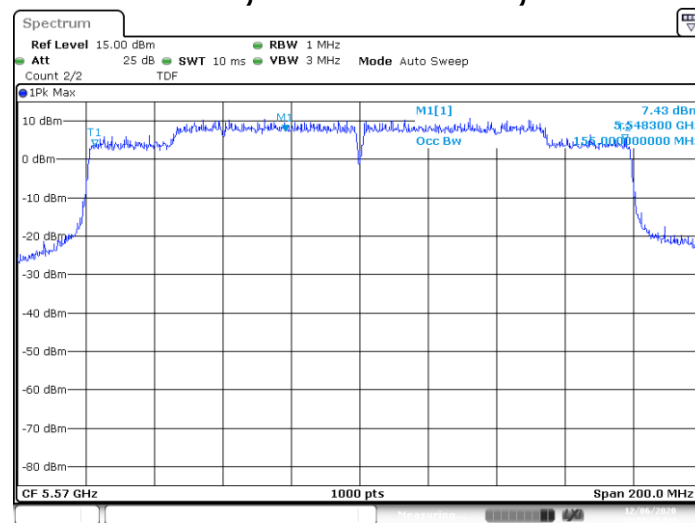
Channel 118

SISO-A, 802.11ax80, HE0



Channel 122

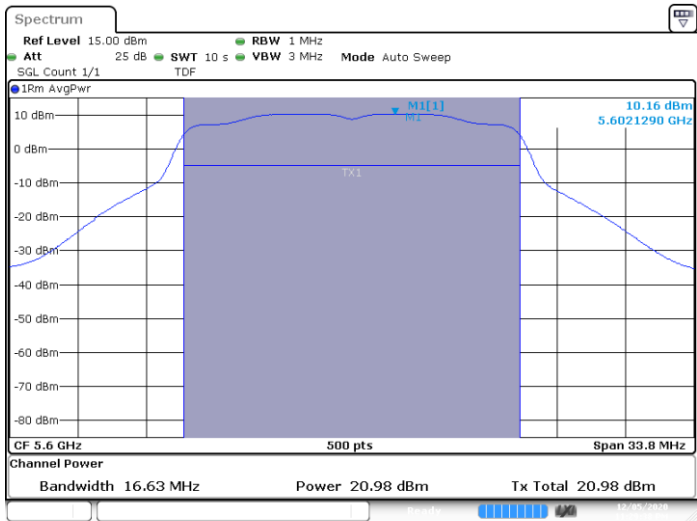
## SISO-B, 802.11ax160, HE0



Channel 114

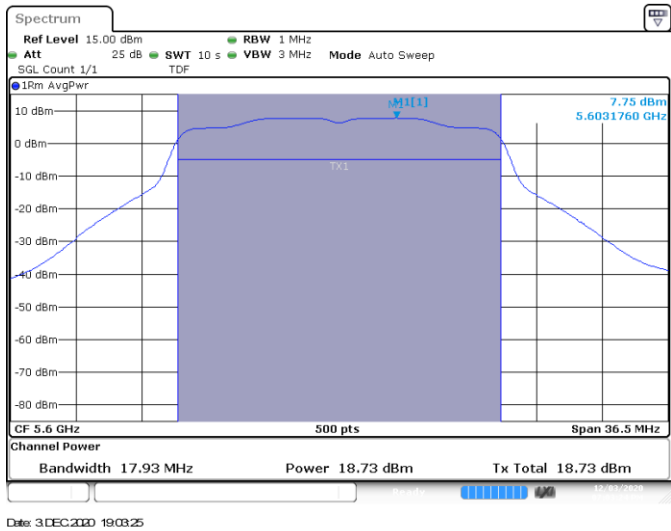
### C.1.3 Maximum Output Power & Maximum power spectral Density

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



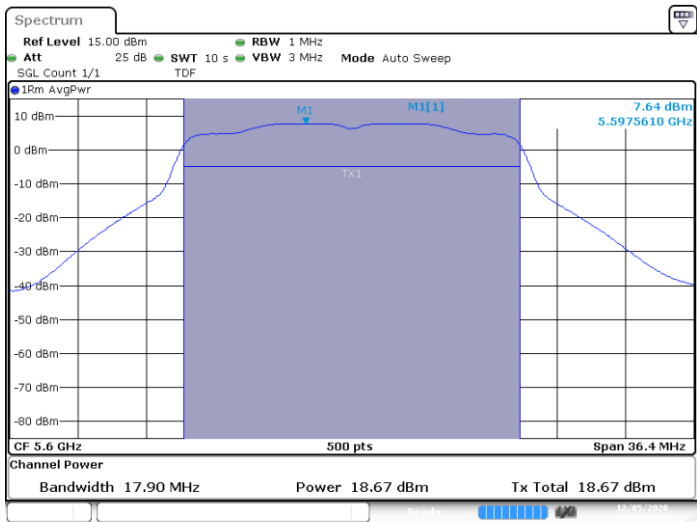
Channel 120

#### MIMO-A, 802.11n20, HT8



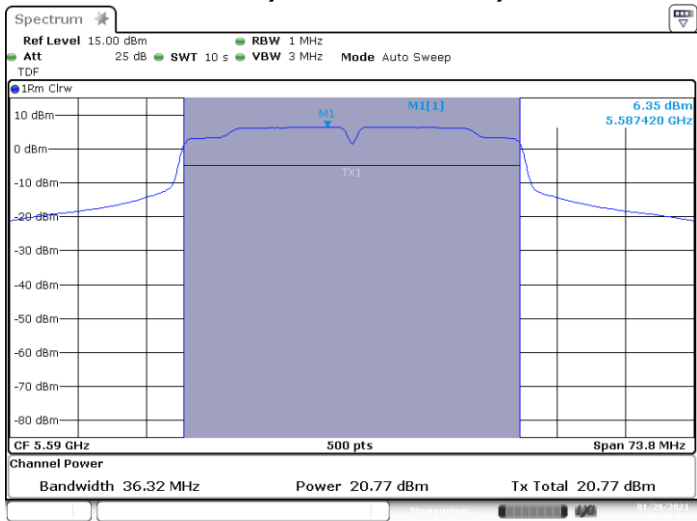
Channel 120

MIMO-B, 802.11n20, HT8



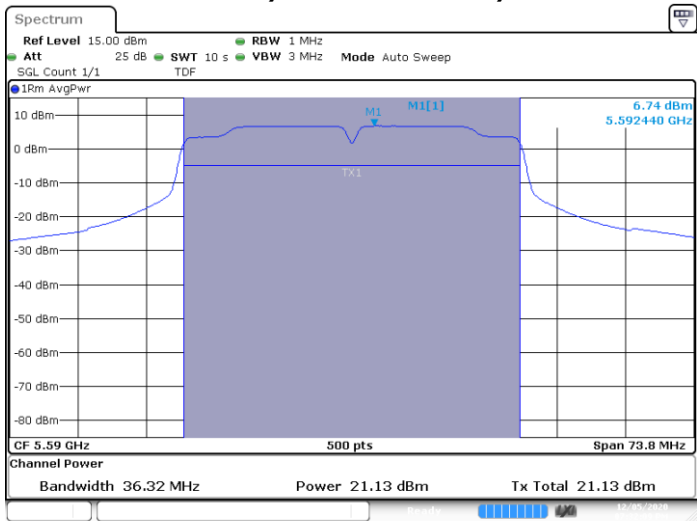
Channel 120

MIMO-A, 802.11n40, HT8



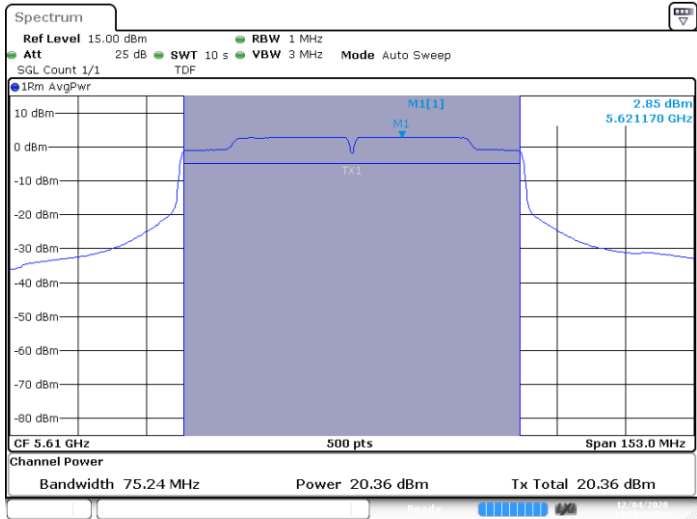
Channel 118

MIMO-B, 802.11n40, HT8



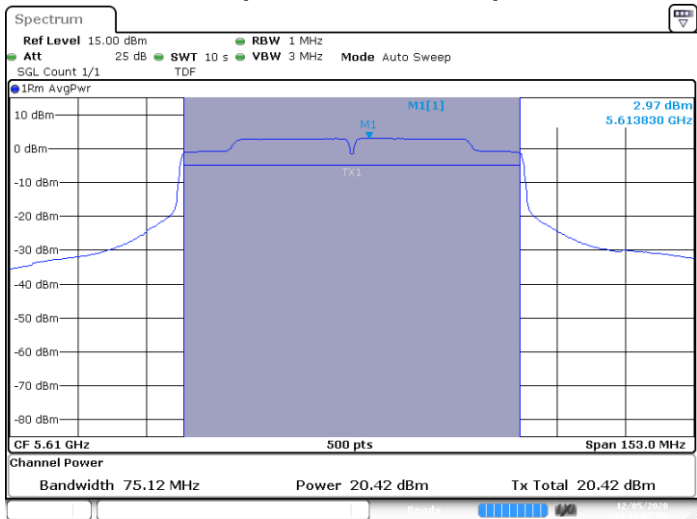
Channel 118

MIMO-A, 802.11ac80, VHT0



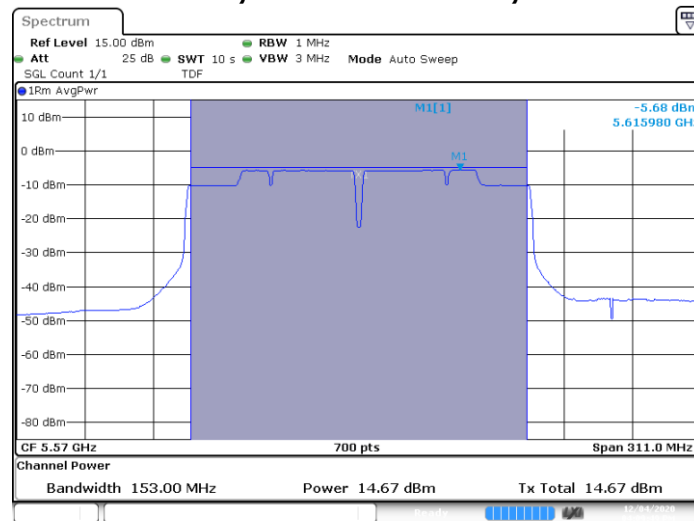
Channel 122

MIMO-B, 802.11ac80, VHT0



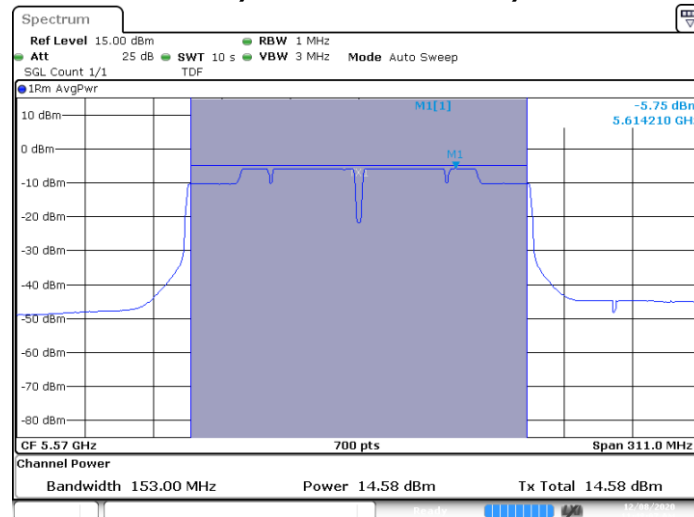
Channel 122

## MIMO-A, 802.11ac160, VHT0



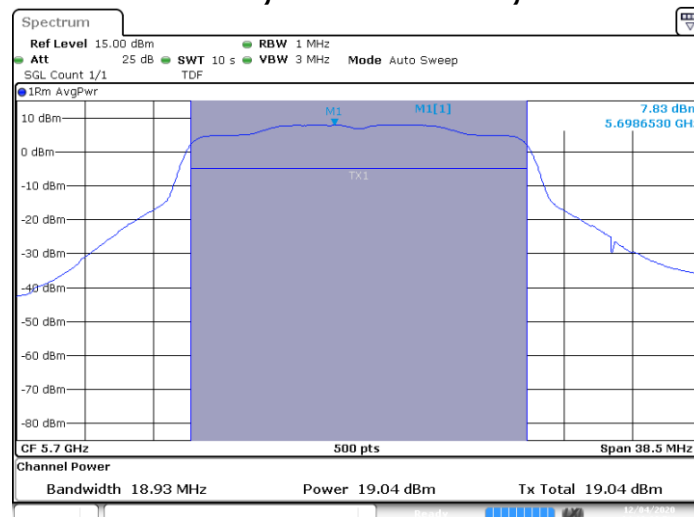
Channel 114

## MIMO-B, 802.11ac160, VHT0



Channel 114

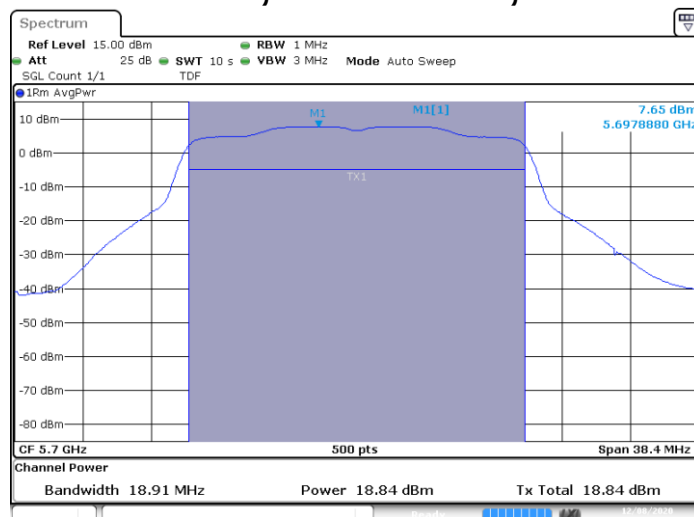
## MIMO-A, 802.11ax20, HE0



Channel 140

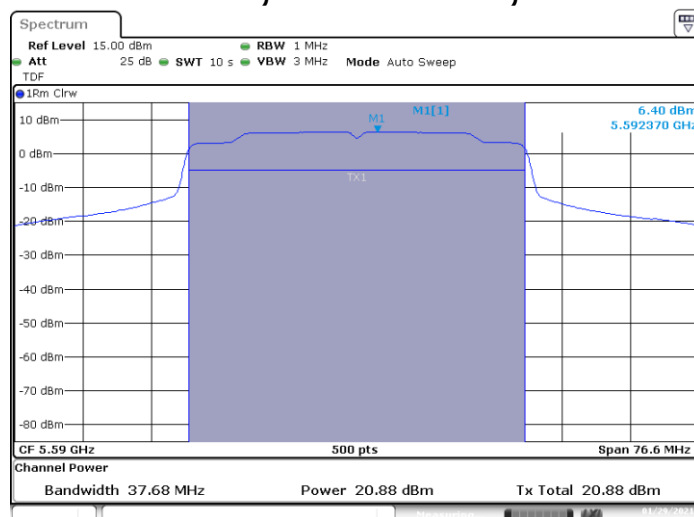


## MIMO-B, 802.11ax20, HE0



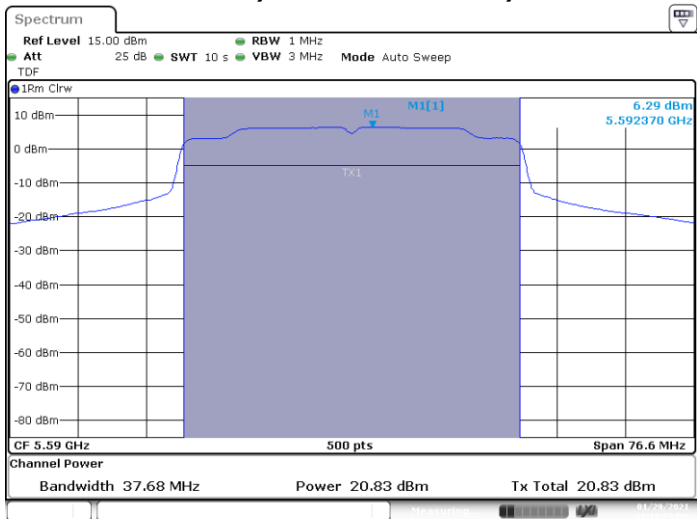
Channel 140

## MIMO-A, 802.11ax40, HE0



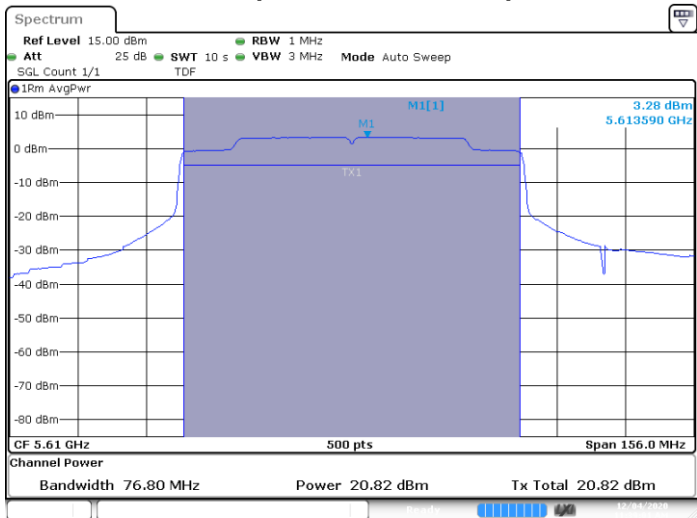
Channel 118

## MIMO-B, 802.11ax40, HE0



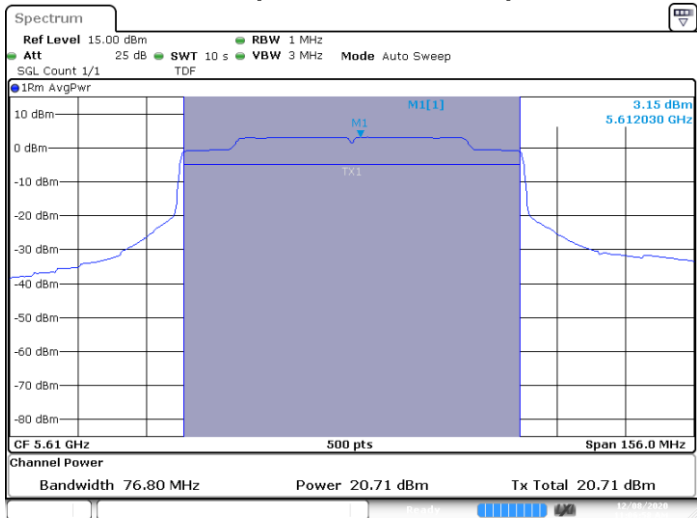
Channel 118

## MIMO-A, 802.11ax80, HE0



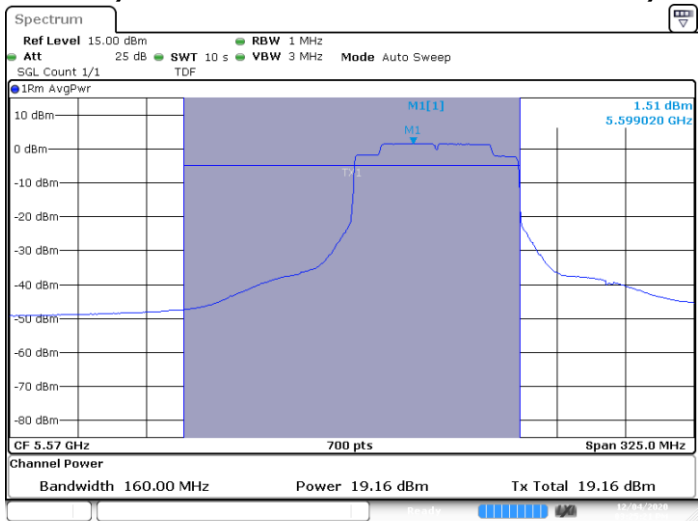
Channel 122

## MIMO-B, 802.11ax80, HE0



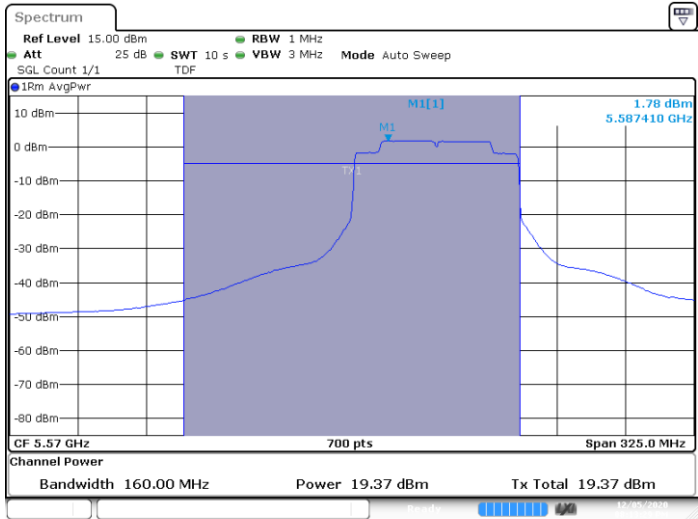
Channel 122

MIMO-A, 802.11ax160 RU: 996/S67, HE0



Channel 114

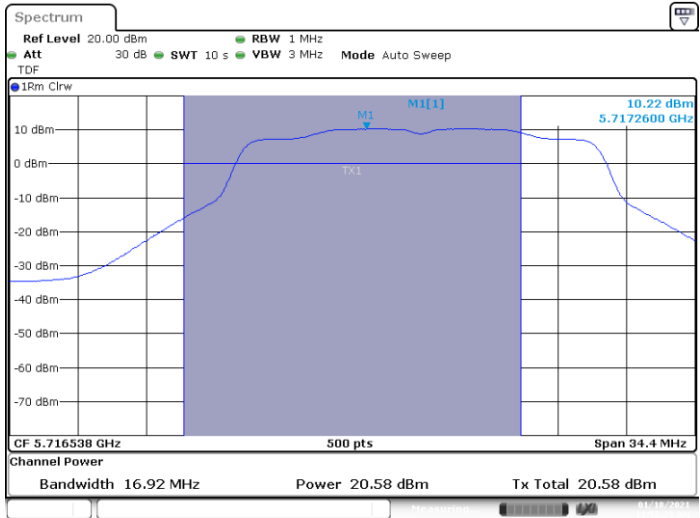
MIMO-B, 802.11ax160 RU: 996/S67, HE0



Channel 114

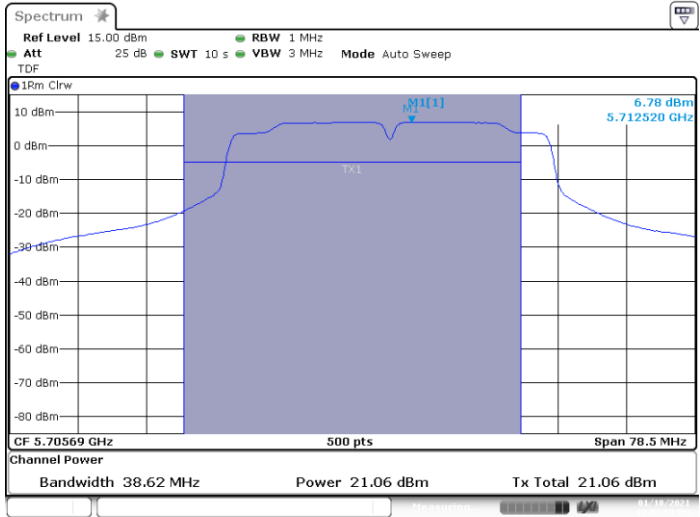
**C.1.4 Maximum output power & Maximum power spectral Density (Overlapped Channel)**

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



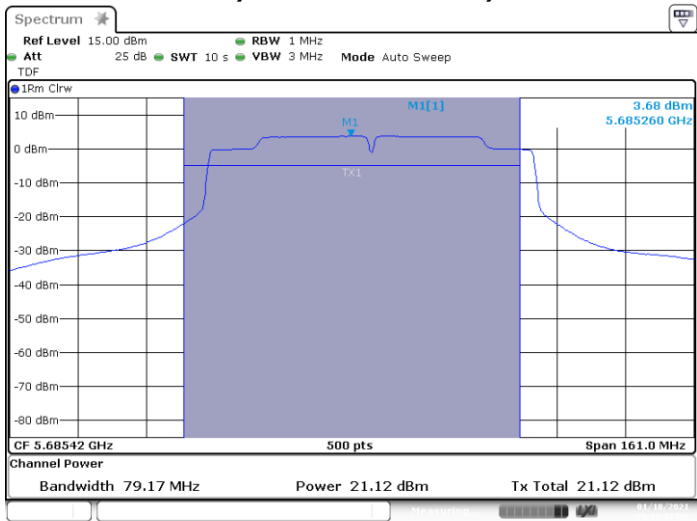
Channel 144 (Overlapped Channel)

**SISO-B, 802.11n40, HT0**



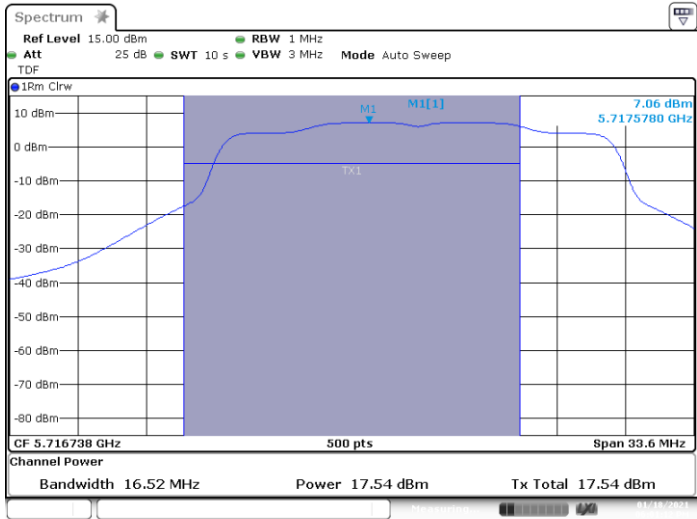
Channel 142 (Overlapped Channel)

# SISO-A, 802.11ac80, VHT0



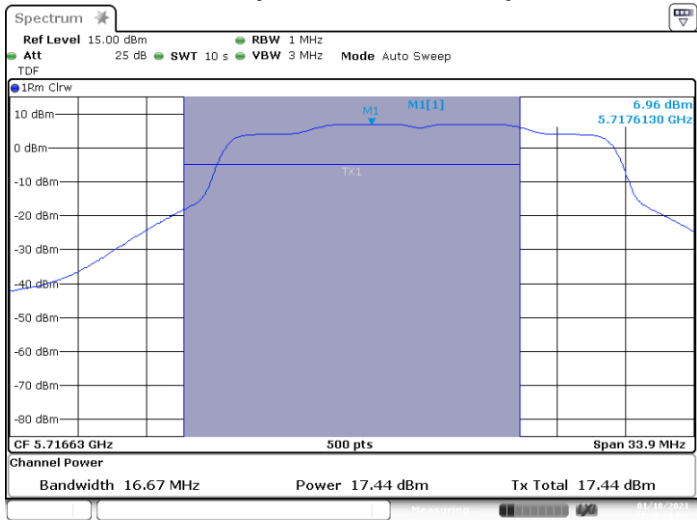
Channel 138 (Overlapped Channel)

# MIMO-A, 802.11ax20, HE0



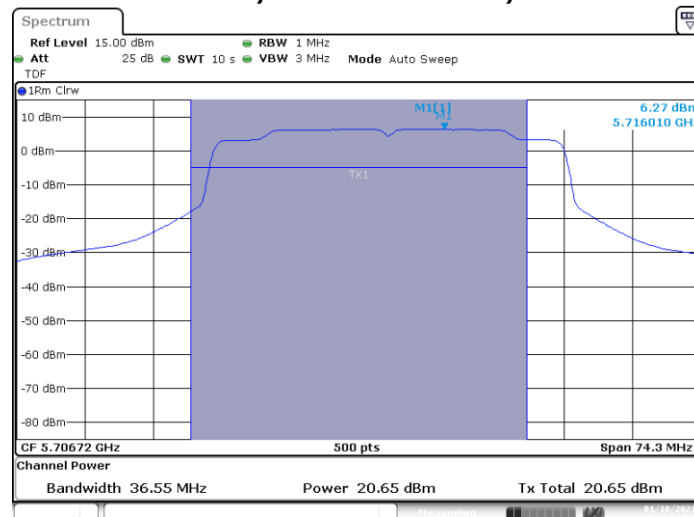
Channel 144 (Overlapped Channel)

# MIMO-B, 802.11ax20, HE0



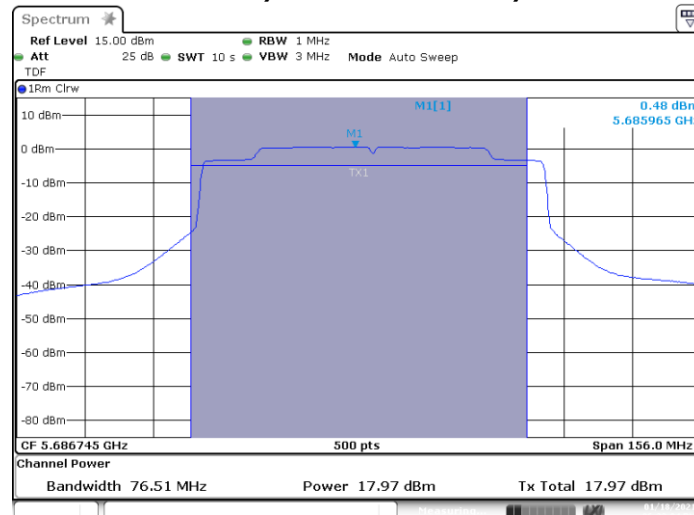
Channel 144 (Overlapped Channel)

## SISO-B, 802.11ax40, HE0



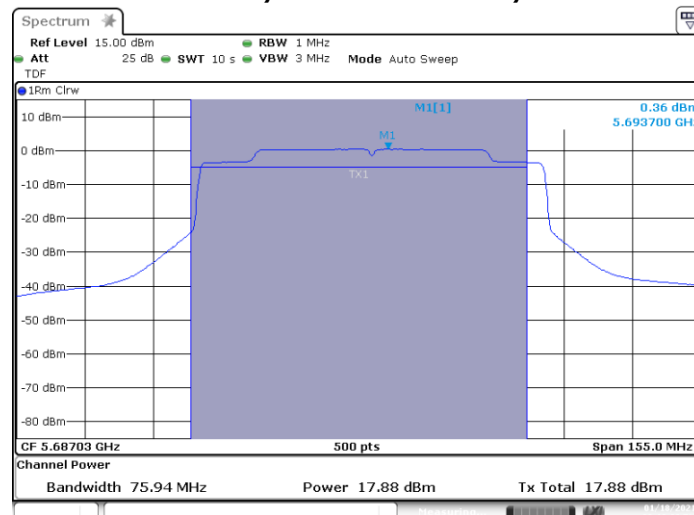
Channel 142 (Overlapped Channel)

## MIMO-A, 802.11ax80, HE0



Channel 138 (Overlapped Channel)

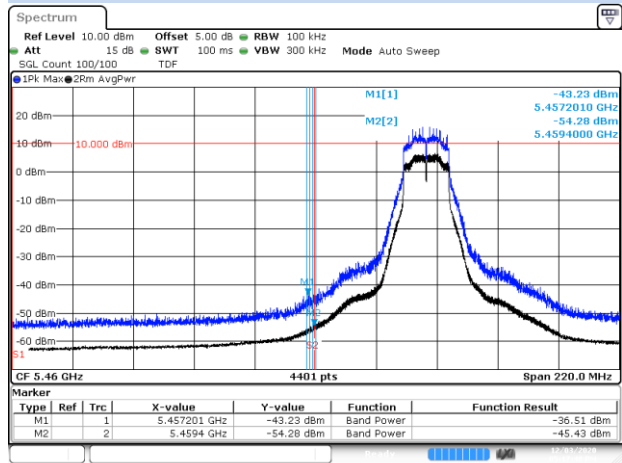
## MIMO-B, 802.11ax80, HE0



Channel 138 (Overlapped Channel)

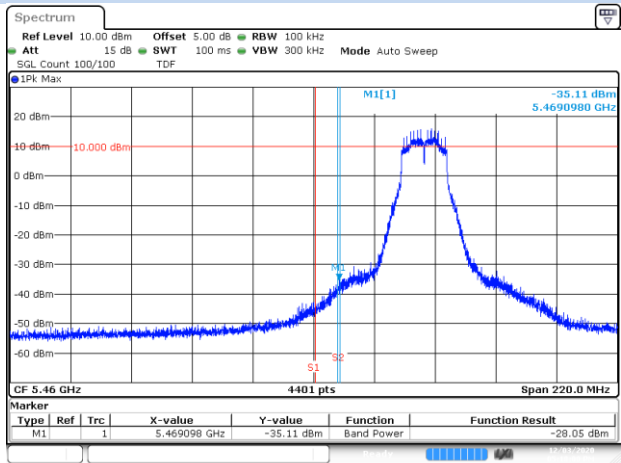
### C.1.5 Undesirable emission limits: out of band (Conducted)

#### SISO A



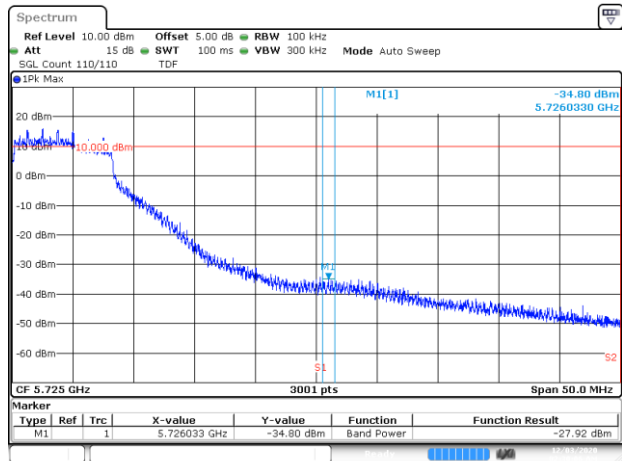
Date: 3 DEC 2020 17:17:43

BE-R-LOW, SISO-A, 802.11a20-6Mbps, Ch100



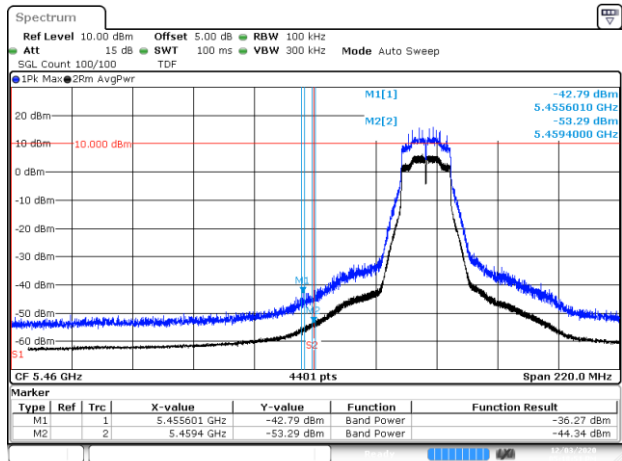
Date: 3 DEC 2020 17:18:00

BE-NR-LOW, SISO-A, 802.11a20-6Mbps, Ch100



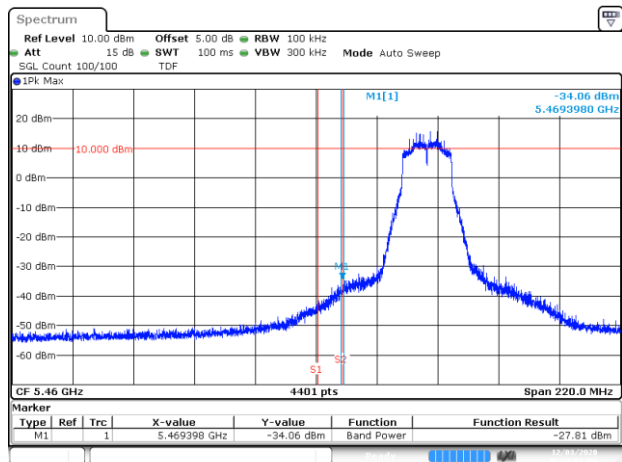
Date: 3 DEC 2020 02:30:07

BE-NR-HIGH, SISO-A, 802.11a20-6Mbps, Ch140



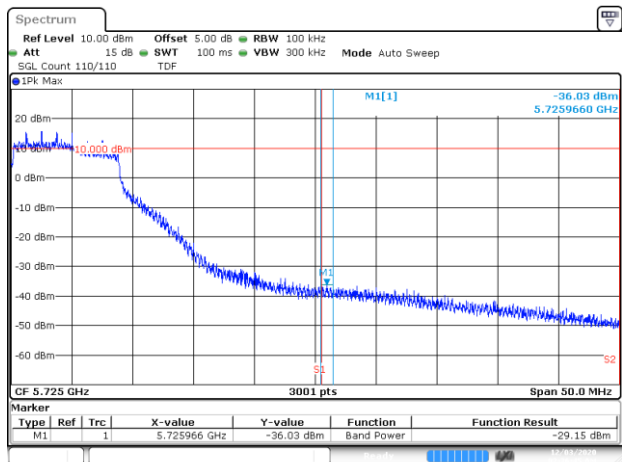
Date: 3 DEC 2020 17:18:51

BE-R-LOW, SISO-A, 802.11n20-HT0, Ch100



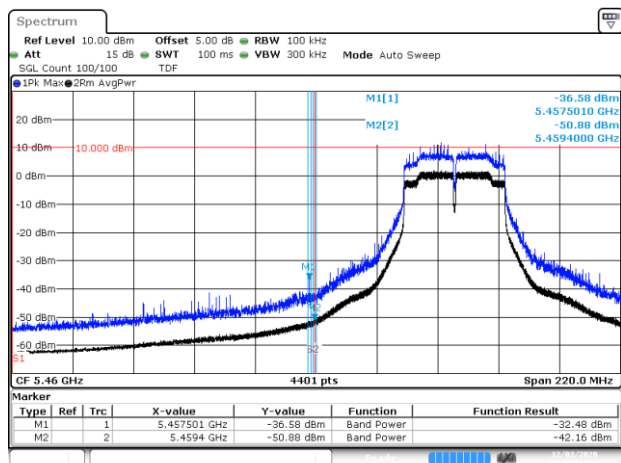
Date: 3 DEC 2020 17:19:04

BE-NR-LOW, SISO-A, 802.11n20-HT0, Ch100



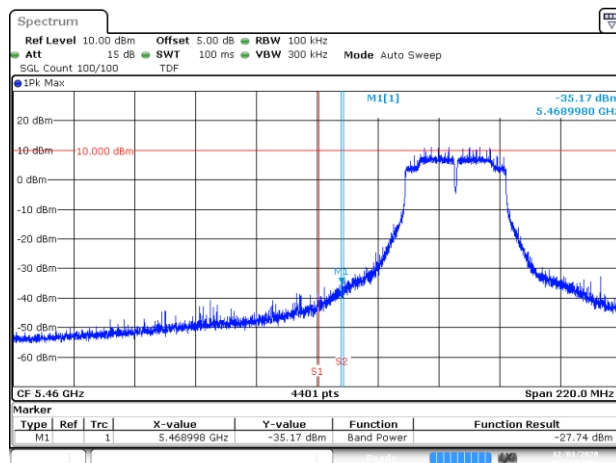
Date: 3 DEC 2020 02:38:45

BE-NR-HIGH, SISO-A, 802.11n20-HT0, Ch140



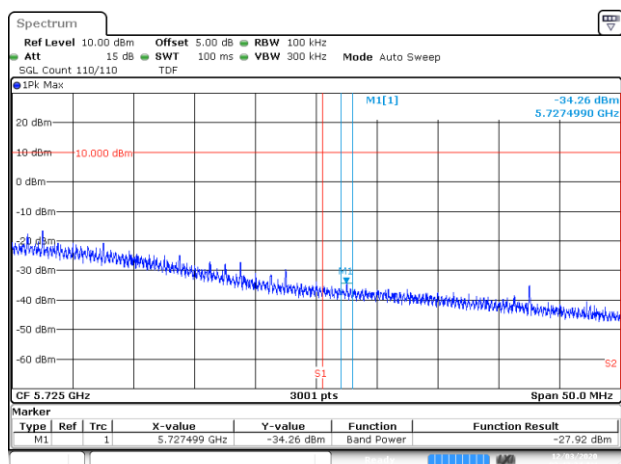
3 DEC 2020 17:19:58

BE-R-LOW, SISO-A, 802.11n40-HT0, Ch102



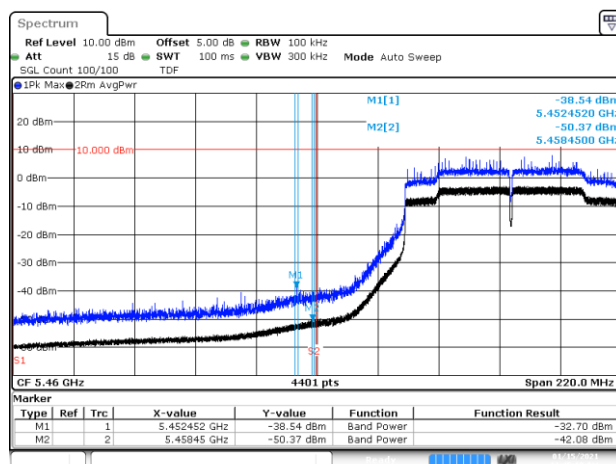
3 DEC 2020 17:34:20

BE-NR-LOW, SISO-A, 802.11n40-HT0, Ch102



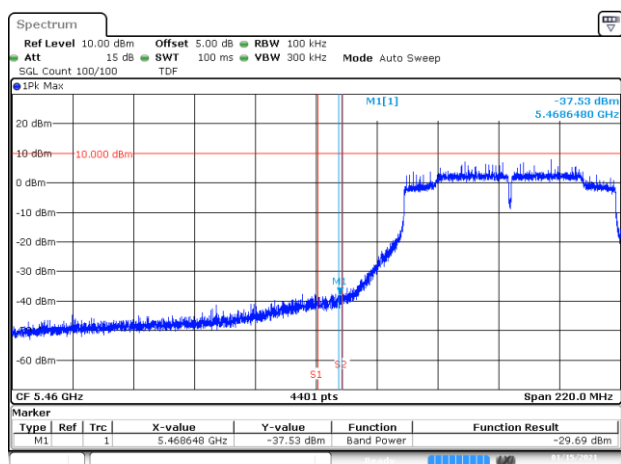
3 DEC 2020 02:43:24

BE-NR-HIGH, SISO-A, 802.11n40-HT0, Ch134



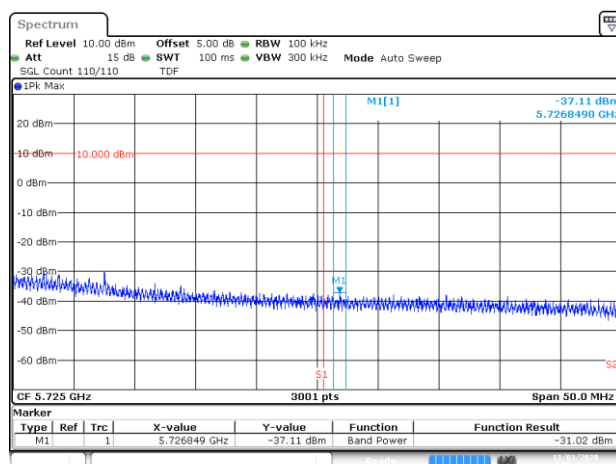
15 JAN 2021 11:45:19

BE-R-LOW, SISO-A, 802.11ac80-VHT0, Ch106



15 JAN 2021 11:48:28

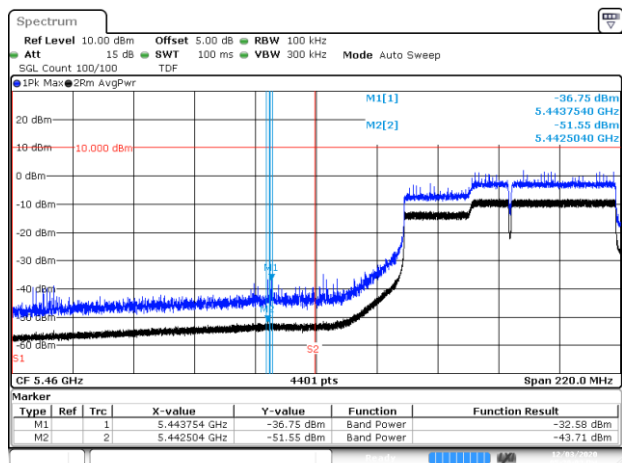
BE-NR-LOW, SISO-A, 802.11ac80-VHT0, Ch106



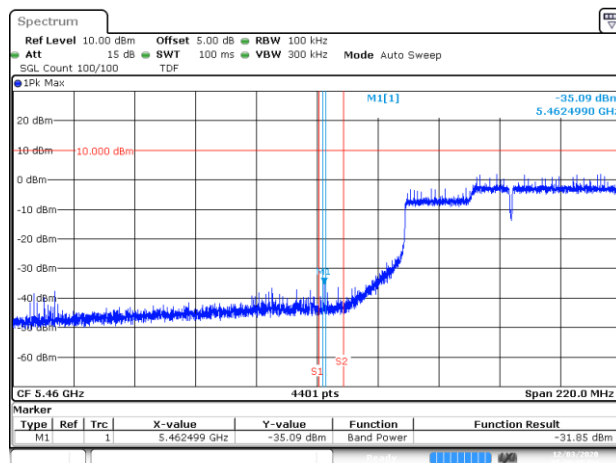
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BE-NR-HIGH, SISO-A, 802.11ac80-VHT0, Ch122

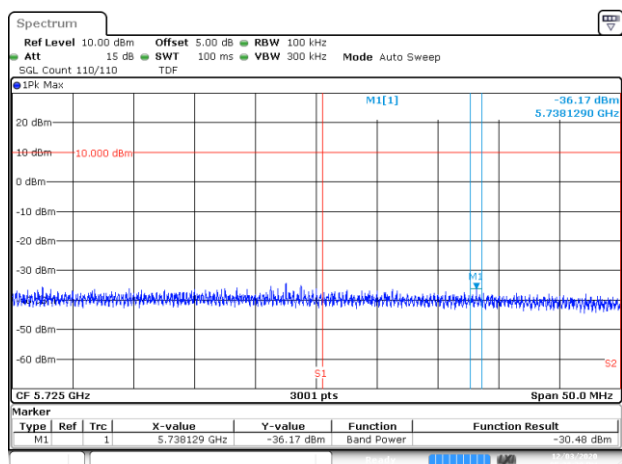




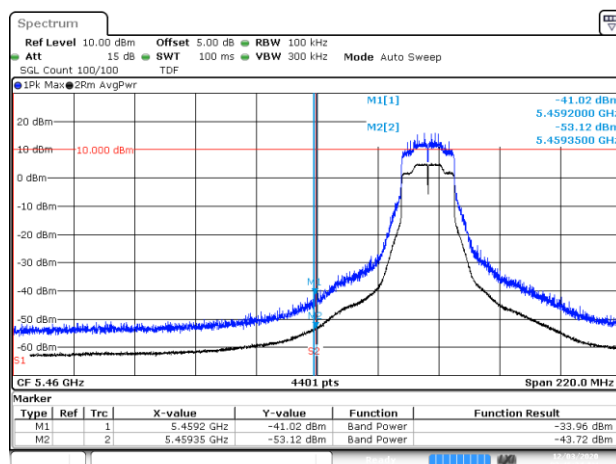
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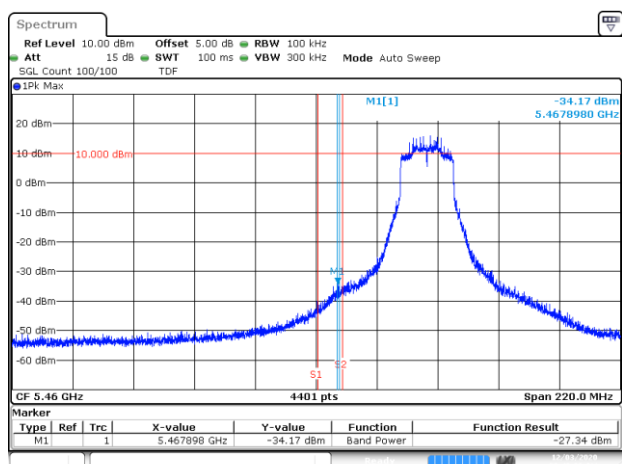
BE-NR-LOW, SISO-A, 802.11ac160-VHT0, Ch114



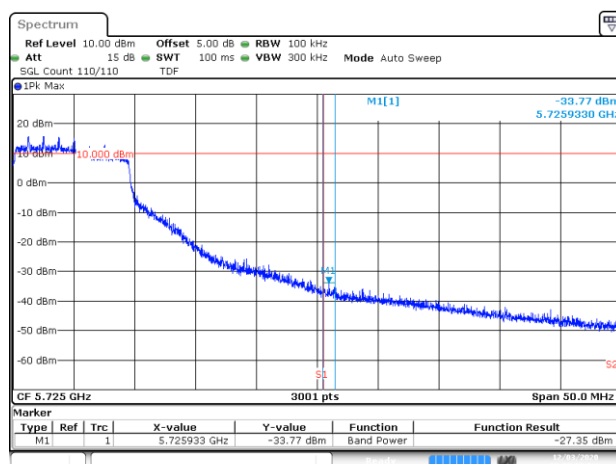
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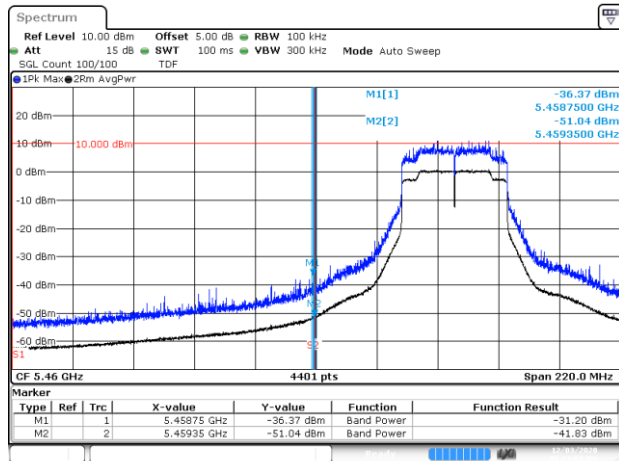
BE-R-LOW, SISO-A, 802.11ax20-HE0, Ch100



BE-NR-LOW, SISO-A, 802.11ax20-HE0, Ch100

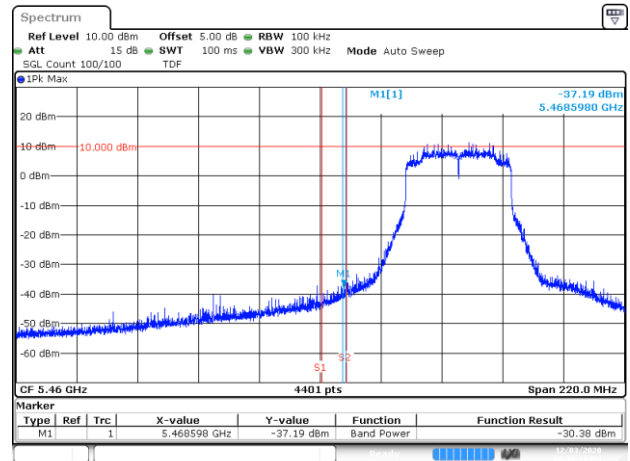


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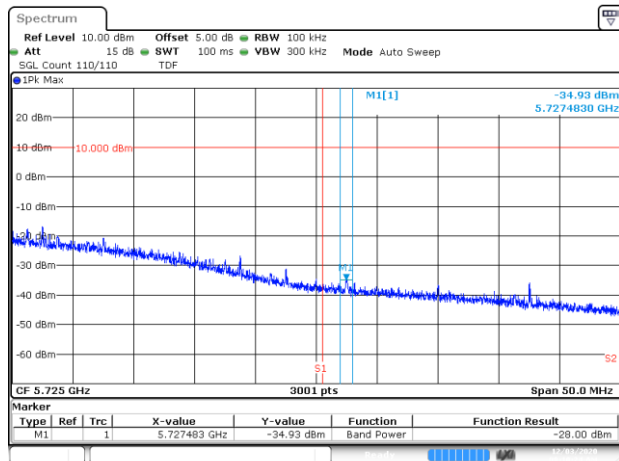
Date: 3 DEC 2020 17:21:54

BE-R-LOW, SISO-A, 802.11ax40-HE0, Ch102



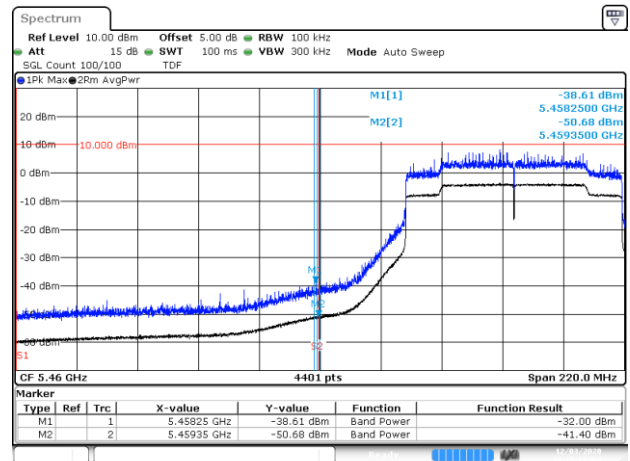
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BE-NR-LOW, SISO-A, 802.11ax40-HE0, Ch102



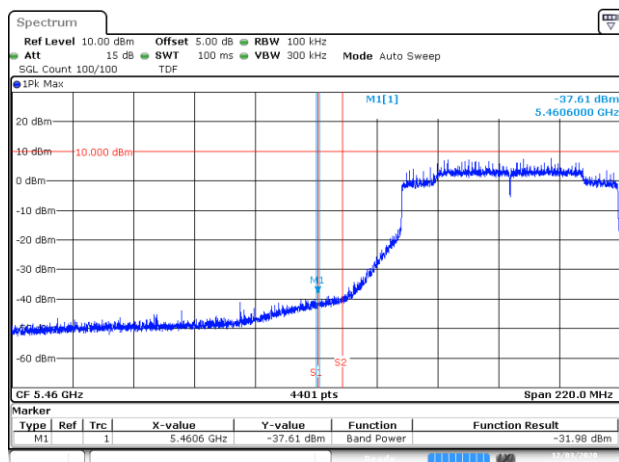
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BE-NR-HIGH, SISO-A, 802.11ax40-HE0, Ch134



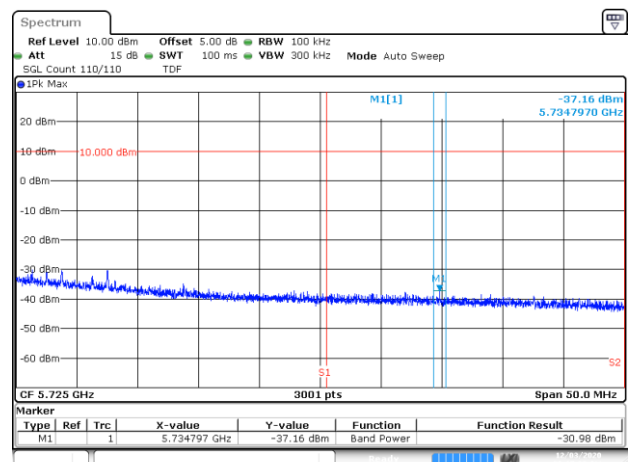
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BE-R-LOW, SISO-A, 802.11ax80-HE0, Ch106



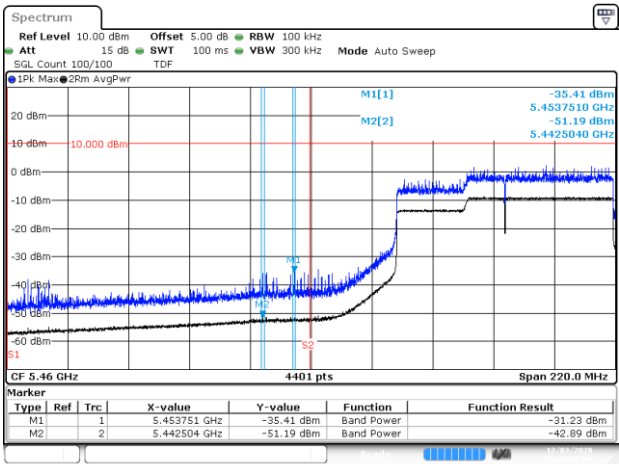
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BE-NR-LOW, SISO-A, 802.11ax80-HE0, Ch106



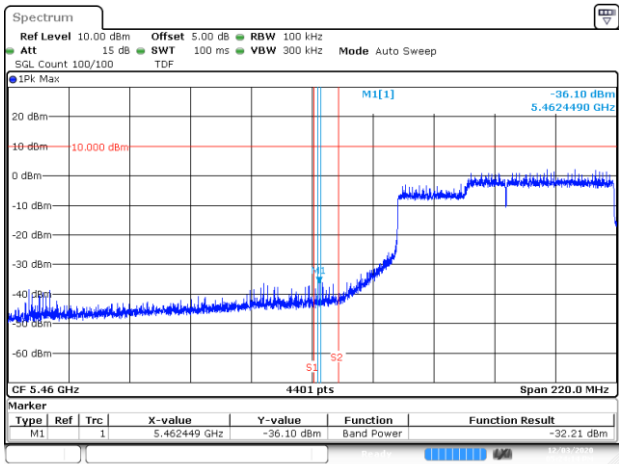
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BE-NR-HIGH, SISO-A, 802.11ax80-HE0, Ch122



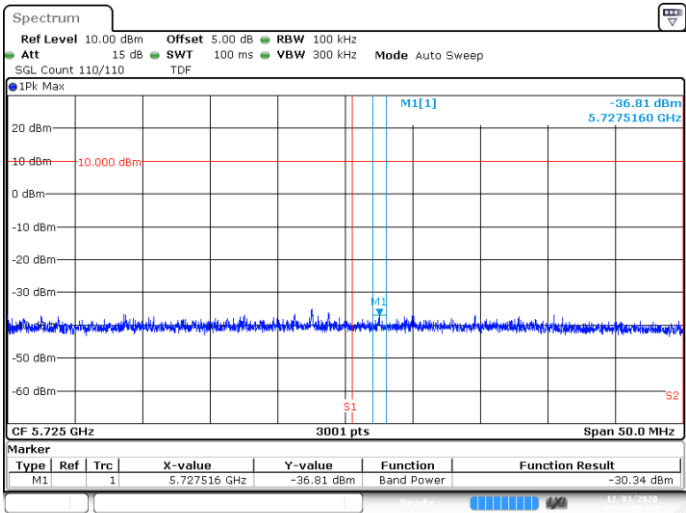
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BE-R-LOW, SISO-A, 802.11ax160-HE0, Ch114



Date: 3 DEC 2020 17:24:14

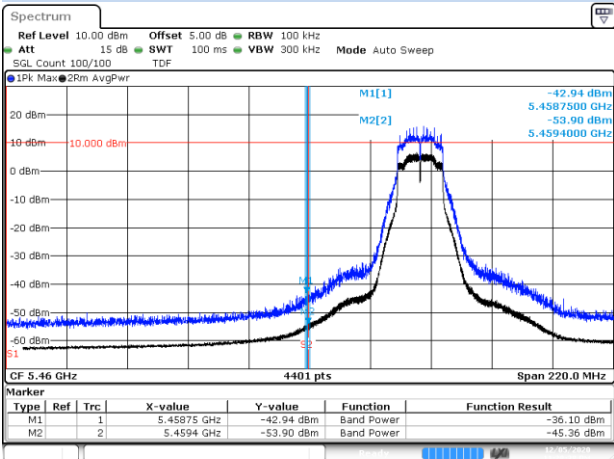
BE-NR-LOW, SISO-A, 802.11ax160-HE0, Ch114



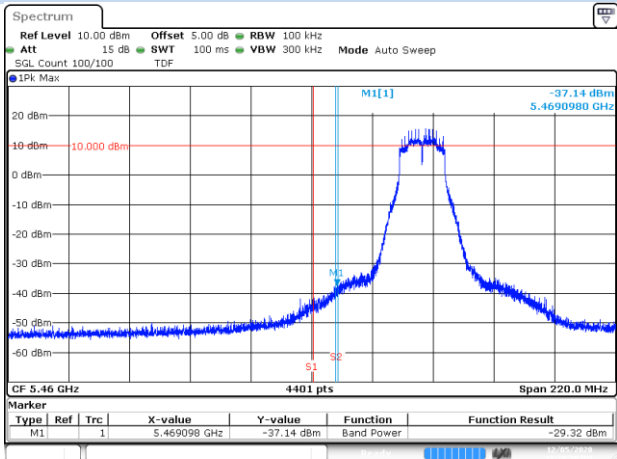
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BE-NR-HIGH, SISO-A, 802.11ax160-HE0, Ch114

## SISO B



BE-R-LOW, SISO-B, 802.11a20-6Mbps, Ch100



BE-NR-LOW, SISO-B, 802.11a20-6Mbps, Ch100