

# 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 ID                 | E2K-AX211D2                                                           |
| Date of Test Start/End | 2021-09-17 /2021-09-17                                                |
| Features               | 802.11ax, Dual Band, 2x2 Wi-Fi 6E + Bluetooth® 5.2<br>(see section 5) |

|                      |                                        |
|----------------------|----------------------------------------|
| Applicant            | Dell Inc.                              |
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| Contact Person       | Don Bobo                               |
| Telephone/Fax/ Email | Don.Bobo@Dell.com                      |

|                     |                                               |
|---------------------|-----------------------------------------------|
| Reference Standards | FCC CFR Title 47 Part 15 E<br>(see section 1) |
|---------------------|-----------------------------------------------|

|                            |                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------|
| Test Report identification | 211012-02.TR01                                                                                     |
| Revision Control           | Rev. 03<br>This test report revision replaces any previous test report revision<br>(see section 8) |

The test results relate only to the samples tested.  
Reference to accreditation shall be used only by full reproduction of test report.

Issued by

Reviewed by

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

### FCC

1. FCC Title 47 eCFR part 15 – Subpart E - Unlicensed National Information Infrastructure Devices. 2021-02-08 Online edition
2. FCC OET KDB 987594 D01 U-NII 6GHz General Requirements v01r02
3. FCC OET KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
4. FCC OET KDB 987594 D03 U-NII 6 GHz QA v01
5. 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.
6. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
7. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

## 2. General conditions, competences and guarantees

- ✓ 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 WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

## 3. Environmental Conditions

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

|             |                |
|-------------|----------------|
| Temperature | 24.6°C ± 0.4°C |
| Humidity    | 52.3% ± 1%     |

#### 4. Test samples

| Sample | Control #     | Description    | Model          | Serial #         | Date of receipt | Note         |
|--------|---------------|----------------|----------------|------------------|-----------------|--------------|
| #01    | 201120-03.S07 | WiFi 6E Module | AX211D2W       | WFM:D8F8834E56F1 | 2020-11-23      | RF Conducted |
|        | 170000-01.S18 | Laptop         | Latitude E5470 | 4L1BVF2          | 2019-05-23      |              |
|        | 200611-01-S13 | Extender       | -              | -                | 2020-11-30      |              |
|        | 180001-01.S21 | Socket GfP/HrP | Intel          | -                | 2021-06-07      |              |

#### 5. EUT Features

The herein information is provided by the customer

|                        |                                                                                                                                                                                                                                                                                                                                                                     |                                |                                |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Brand Name             | Intel® Wi-Fi 6E AX211                                                                                                                                                                                                                                                                                                                                               |                                |                                |
| Model Name             | AX211D2W                                                                                                                                                                                                                                                                                                                                                            |                                |                                |
| Software Version       | OEM_DRTU_12485_99_2100_64G                                                                                                                                                                                                                                                                                                                                          |                                |                                |
| Driver Version         | 99.0.63.5                                                                                                                                                                                                                                                                                                                                                           |                                |                                |
| Supported Radios       | <div> <div>802.11b/g/n/ax</div> <div>2.4GHz (2400.0 – 2483.5 MHz)</div> </div> <div> <div>802.11a/n/ac/ax</div> <div>5.2GHz (5150.0 – 5350.0 MHz)</div> <div>5.6GHz (5470.0 – 5725.0 MHz)</div> <div>5.8GHz (5725.0 – 5895.0 MHz)</div> <div>6.0GHz (5925.0 - 7125.0MHz)</div> </div> <div> <div>Bluetooth 5.2</div> <div>2.4GHz (2400.0 – 2483.5 MHz)</div> </div> |                                |                                |
| Antenna Information    | Transmitter                                                                                                                                                                                                                                                                                                                                                         | Chain 1 (Chain A)<br>SISO Mode | Chain 2 (Chain B)<br>SISO Mode |
|                        | Manufacturer                                                                                                                                                                                                                                                                                                                                                        | HONGBO telecommunication       | HONGBO telecommunication       |
|                        | Description                                                                                                                                                                                                                                                                                                                                                         | Monopole Antenna               | Monopole Antenna               |
|                        | Peak Antenna Gain (dBi)                                                                                                                                                                                                                                                                                                                                             | +4.81                          | +4.81                          |
| Additional information | The EUT class is a indoor client (6XD) connected to Low-Power indoor access point (6ID)                                                                                                                                                                                                                                                                             |                                |                                |

## 6. Remarks and comments

1. As per applicant request, Contention based protocol test case has been tested using an antenna gain of -2dBi to show compliance with the lowest antenna gain to be used with module as per applicant host integration instructions
2. Original certification was done with a Max Antenna Gain of 5.59dBi (Refer to test Report 201120-03.TR38)
3. For the test case Unwanted Radiated emissions, refer to test report 210628-05.TR01

## 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-5 to U-NII-8

| FCC part        | Test name                                             | Verdict |
|-----------------|-------------------------------------------------------|---------|
| 15.407 (a) (10) | Channel bandwidth                                     | NR      |
| 15.407 (a) (8)  | Power Limits. Maximum output power                    | NR      |
| 15.407 (a) (2)  | Power spectral density                                | NR      |
| 15.407 (b) (5)  | Undesirable emissions limits: out of band (conducted) | NR      |
| 15.407 (b) (6)  | In-Band Emissions (Mask)                              | NR      |
| 15.407 (d) (6)  | Contention based protocol                             | P       |

P: Pass

F: Fail

NM: Not Measured

NA: Not Applicable

NR: Not Requested

## 8. Document Revision History

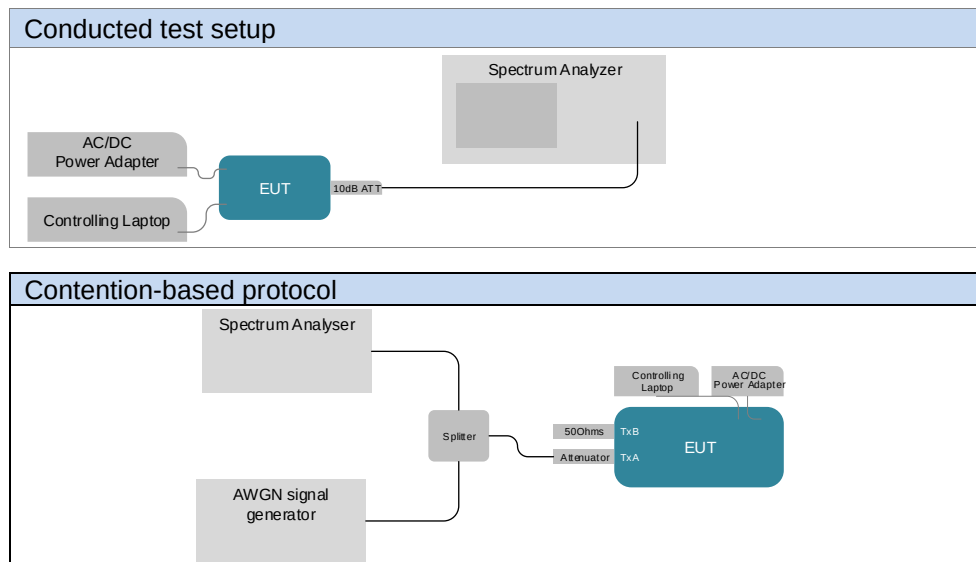
| Revision # | Modified by  | Revision Details                                                                                                 |
|------------|--------------|------------------------------------------------------------------------------------------------------------------|
| Rev. 00    | G.Roustan    | First Issue                                                                                                      |
| Rev.01     | Z. OUACHICHA | As per customer request, update applicant contact and add the RSE test report reference                          |
| Rev.02     | Z. OUACHICHA | Update manufacturer antenna                                                                                      |
| Rev.03     | Z. OUACHICHA | Added peak antenna gain in Antenna information.<br>Added AWGN signal example for Contention-based protocol test. |

# Annex A. Test & System Description

## A.1 Measurement System

Measurements were performed using these following setup.

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.



## A.2 Test Equipment List

Contention-based protocol

| ID#     | Device                          | Type/Model    | Serial #    | Manufacturer       | Cal. Date  | Cal. Due Date |
|---------|---------------------------------|---------------|-------------|--------------------|------------|---------------|
| 098-000 | Vector Signal generator         | SMW200A       | 103732      | Rohde & Schwarz    | 2021-02-04 | 2023-02-04    |
| 178-000 | Spectrum Analyzer               | FSV13         | 101311      | Rohde & Schwarz    | 2021-03-02 | 2023-03-02    |
| 018-004 | 50 Ohm Load                     | -             | -           | -                  | 2021-08-24 | 2022-02-24    |
| 018-000 | 2 Way SMA Power Divider         | PE2084        | -           | Pasternack         | 2021-08-24 | 2022-02-24    |
| 349-000 | Temp & Humidity Logger          | RA12E-TH1-RAS | RA12-D4F8C3 | Avtech             | 2021-07-30 | 2023-07-30    |
| 018-005 | Cable SMA Male to SMA Male 45CM | FMC0202085-18 | -           | Fairview Microwave | 2021-08-24 | 2022-02-24    |
| 018-006 | Cable SMA Male to SMA Male 45CM | FMC0202085-18 | -           | Fairview Microwave | 2021-08-24 | 2022-02-24    |
| 016-003 | Cable SMA Male to SMA Male 45CM | FMC0202085-18 | -           | Fairview Microwave | 2021-08-24 | 2022-02-24    |

Choose a building block.

### A.3 Measurement Uncertainty Evaluation

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

| Measurement type          | Uncertainty | Unit |
|---------------------------|-------------|------|
| Contention Based Protocol | $\pm 1.36$  | dB   |



# Annex B. Test Results

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The herein test results were performed by:

|                           |                 |
|---------------------------|-----------------|
| Test case measurement     | Test Personnel  |
| Contention-based Protocol | Gregory Roustan |

## 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.

## B.2 Test Results Tables

### B.2.1 Contention-based protocol

#### Test limits

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm).

#### Test procedure

The contention-based protocol setup shown in section *Test & System Description* was used to measure the contention-based protocol. The EUT ceased transmission when the AWGN source signal level described in table result below is set to transmit.

Incumbent signal is emulated by using a 10MHz bandwidth AWGN source generated by the vector signal generator. The EUT is transmitting at the maximum possible payload and the spectrum analyzer monitors the transmissions in response to the AWGN signal. Insertion loss of the test setup were considered on the spectrum analyser reading.

#### Result Tables

Contention-based Protocol Threshold minimum level

| UNII | Channel | Bandwidth [MHz] | EUT Freq [MHz]<br>$f_{c1}$ | Incumbent Placement/Frequency [MHz]<br>$f_{c2}$ |      | Threshold level of AWGN incumbent (dBm) at antenna level*see note below | Status of EUT transmission |
|------|---------|-----------------|----------------------------|-------------------------------------------------|------|-------------------------------------------------------------------------|----------------------------|
| 5    | 45      | 20              | 6175                       | $f_{c1} = f_{c2}$                               | 6175 | <b>-64.6</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -65.6                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -66.6                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -67.6                                                                   | Normal                     |
| 6    | 105     | 20              | 6475                       | $f_{c1} = f_{c2}$                               | 6475 | <b>-64.1</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -65.1                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -66.1                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -67.1                                                                   | Normal                     |
| 7    | 149     | 20              | 6695                       | $f_{c1} = f_{c2}$                               | 6695 | <b>-63.8</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -64.8                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -65.8                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -66.8                                                                   | Normal                     |
| 8    | 209     | 20              | 6995                       | $f_{c1} = f_{c2}$                               | 6995 | <b>-65.1</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -66.1                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -67.1                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -68.1                                                                   | Normal                     |
| 5    | 15      | 160             | 6025                       | Lower Edge                                      | 5950 | <b>-63.8</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -64.8                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -65.8                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -66.8                                                                   | Normal                     |
|      |         |                 |                            | $f_{c1} = f_{c2}$                               | 6025 | <b>-66.6</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            |                                                 |      | -67.6                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -68.6                                                                   | Normal                     |
|      |         |                 |                            |                                                 |      | <b>-65.2</b>                                                            | <b>Ceased</b>              |
|      |         |                 |                            | Upper edge                                      | 6100 | -66.2                                                                   | Minimal                    |
|      |         |                 |                            |                                                 |      | -67.2                                                                   | Normal                     |
| 6-7  | 111     | 160             | 6505                       | Lower Edge                                      | 6430 | <b>-63.1</b>                                                            | <b>Ceased</b>              |

|   |     |     |      |                   |      |              |               |
|---|-----|-----|------|-------------------|------|--------------|---------------|
|   |     |     |      | $f_{c1} = f_{c2}$ | 6505 | -64.1        | Minimal       |
|   |     |     |      |                   |      | -65.1        | Normal        |
|   |     |     |      |                   |      | <b>-66.3</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -67.3        | Minimal       |
|   |     |     |      |                   |      | -68.3        | Normal        |
|   |     |     |      | Upper edge        | 6580 | <b>-64.7</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -65.7        | Minimal       |
|   |     |     |      |                   |      | -66.7        | Normal        |
|   |     |     |      |                   |      | <b>-63.5</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -64.5        | Minimal       |
| 7 | 143 | 160 | 6665 | Lower Edge        | 6590 | -65.5        | Normal        |
|   |     |     |      |                   |      | <b>-65.9</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -66.9        | Minimal       |
|   |     |     |      |                   |      | -67.9        | Normal        |
|   |     |     |      |                   |      | <b>-64.6</b> | <b>Ceased</b> |
|   |     |     |      | $f_{c1} = f_{c2}$ | 6665 | -65.6        | Minimal       |
|   |     |     |      |                   |      | -66.6        | Normal        |
|   |     |     |      |                   |      | <b>-63.8</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -64.8        | Minimal       |
|   |     |     |      |                   |      | -65.8        | Normal        |
| 8 | 207 | 160 | 6985 | Lower Edge        | 6910 | <b>-66.6</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -67.6        | Minimal       |
|   |     |     |      |                   |      | -68.6        | Normal        |
|   |     |     |      |                   |      | <b>-66.1</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -67.1        | Minimal       |
|   |     |     |      |                   |      | -68.1        | Normal        |
|   |     |     |      | $f_{c1} = f_{c2}$ | 6985 | -66.6        | Normal        |
|   |     |     |      |                   |      | -67.6        | Minimal       |
|   |     |     |      |                   |      | -68.6        | Normal        |
|   |     |     |      |                   |      | <b>-66.1</b> | <b>Ceased</b> |
|   |     |     |      |                   |      | -67.1        | Minimal       |

Note : EUT antenna gain = -2.0 dBi considered in the measurement path loss.

### Summary table

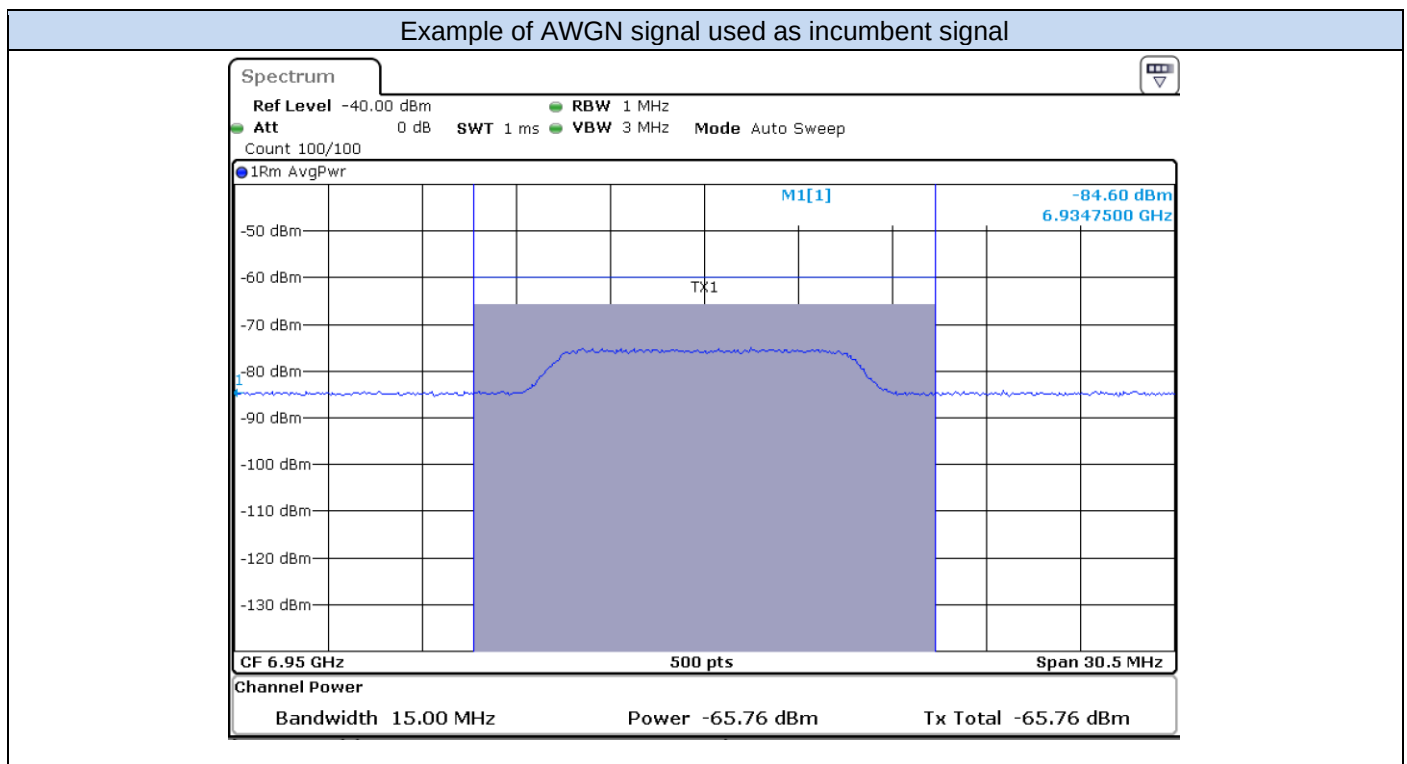
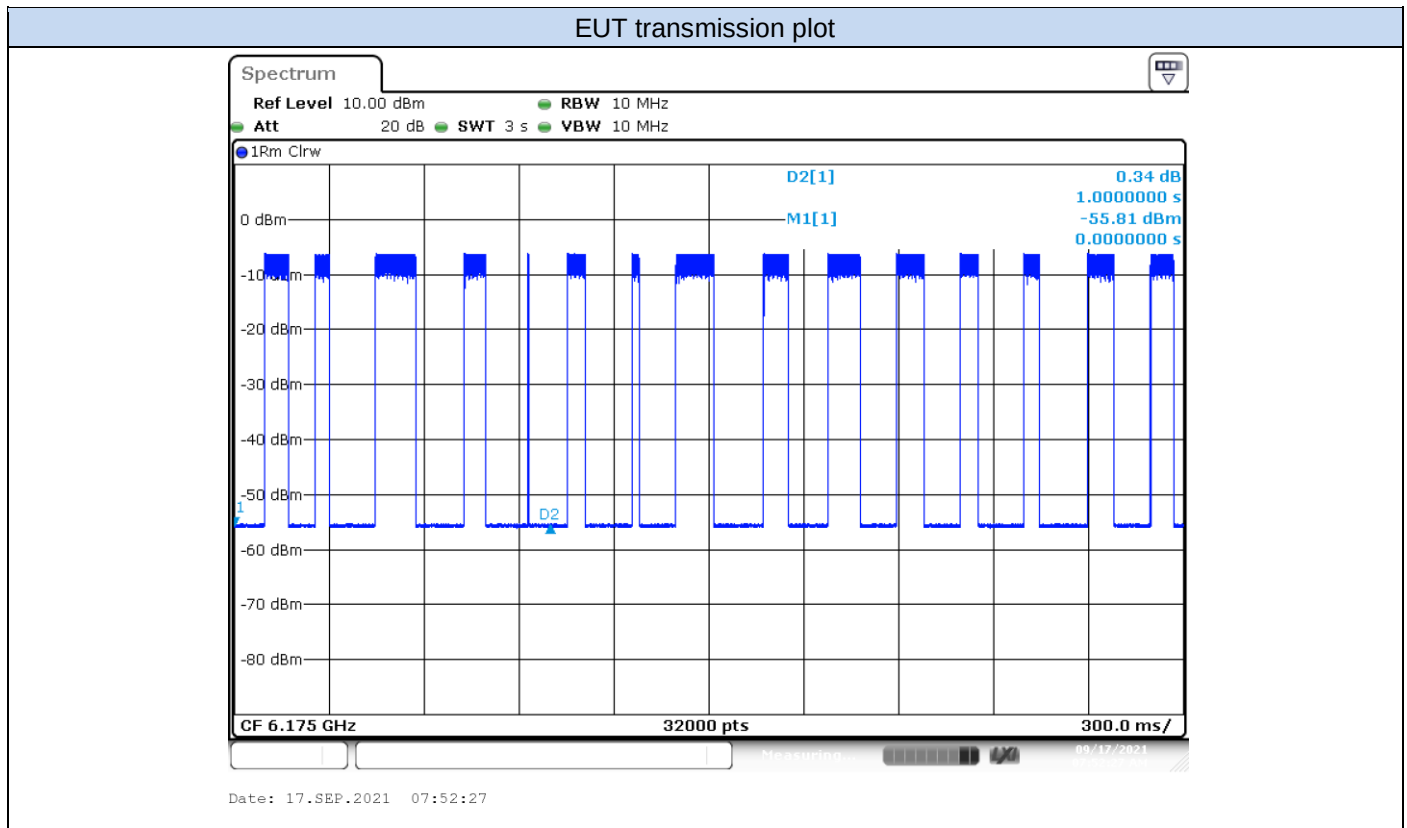
| Bandwidth | UNII Sub-band | Channel | EUT Freq [MHz]<br>$f_{c1}$ | Incumbent Placement/Frequency [MHz]<br>$f_{c2}$ |      | Incumbent Threshold level of AWGN interference at antenna level (dBm) <sup>*see note below</sup> | Number of iterations | Detection Probability (%) | Limit (%) | Verdict |
|-----------|---------------|---------|----------------------------|-------------------------------------------------|------|--------------------------------------------------------------------------------------------------|----------------------|---------------------------|-----------|---------|
| 20MHz     | 5             | 45      | 6175                       | $f_{c1} = f_{c2}$                               | 6175 | -64.6                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 6             | 105     | 6475                       | $f_{c1} = f_{c2}$                               | 6475 | -64.1                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 7             | 149     | 6695                       | $f_{c1} = f_{c2}$                               | 6695 | -63.8                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 8             | 209     | 6995                       | $f_{c1} = f_{c2}$                               | 6995 | -65.1                                                                                            | 10                   | 100                       | 90        | PASS    |
| 160MHz    | 5             | 15      | 6025                       | Lower Edge                                      | 5950 | -63.8                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | $f_{c1} = f_{c2}$                               | 6025 | -66.6                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | Upper edge                                      | 6100 | -65.2                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 6-7           | 111     | 6505                       | Lower Edge                                      | 6430 | -63.1                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | $f_{c1} = f_{c2}$                               | 6505 | -66.3                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | Upper edge                                      | 6580 | -64.7                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 7             | 143     | 6665                       | Lower Edge                                      | 6590 | -63.5                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | $f_{c1} = f_{c2}$                               | 6665 | -65.9                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | Upper edge                                      | 6740 | -64.6                                                                                            | 10                   | 100                       | 90        | PASS    |
|           | 8             | 207     | 6985                       | Lower Edge                                      | 6910 | -63.8                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | $f_{c1} = f_{c2}$                               | 6985 | -66.6                                                                                            | 10                   | 100                       | 90        | PASS    |
|           |               |         |                            | Upper edge                                      | 7060 | -66.1                                                                                            | 10                   | 100                       | 90        | PASS    |

Note : EUT antenna gain = -2.0 dBi considered in the measurement path loss.

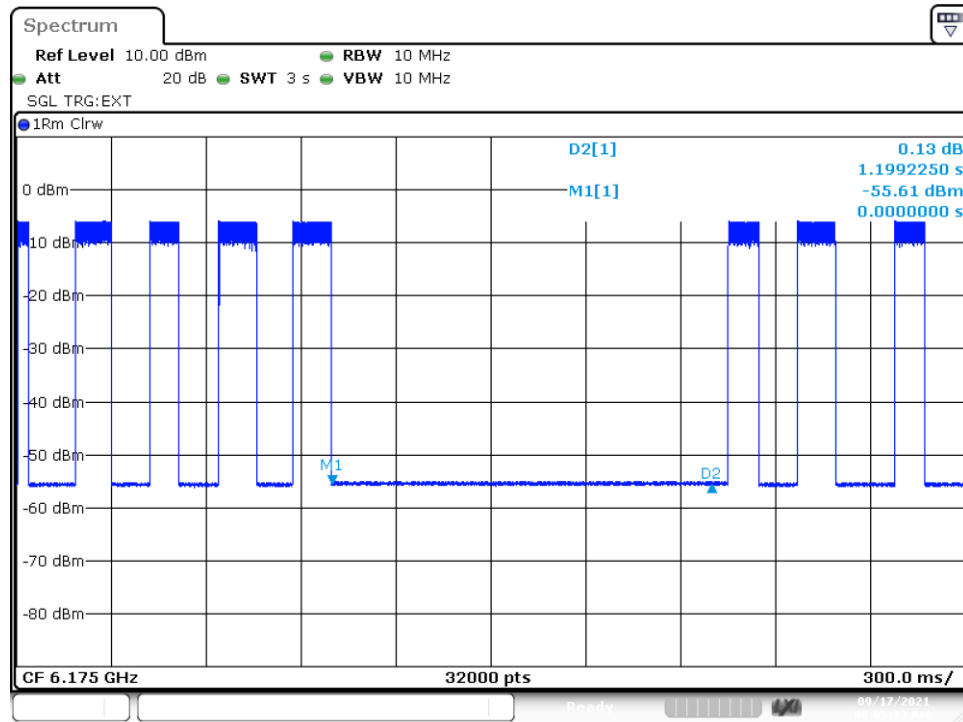
See Section C.1.1 for the screenshot results.

# Annex C. System Plots

## C.1.1 Contention-based protocol



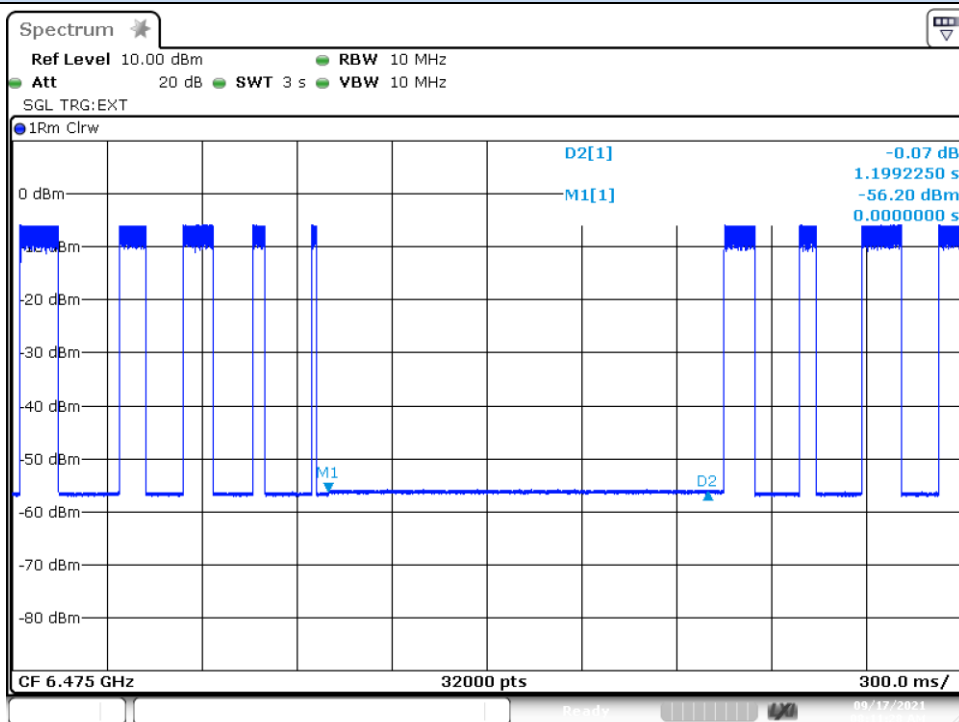
### Channel 45 – Incumbent signal 6175 MHz



Date: 17.SEP.2021 08:05:34

Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

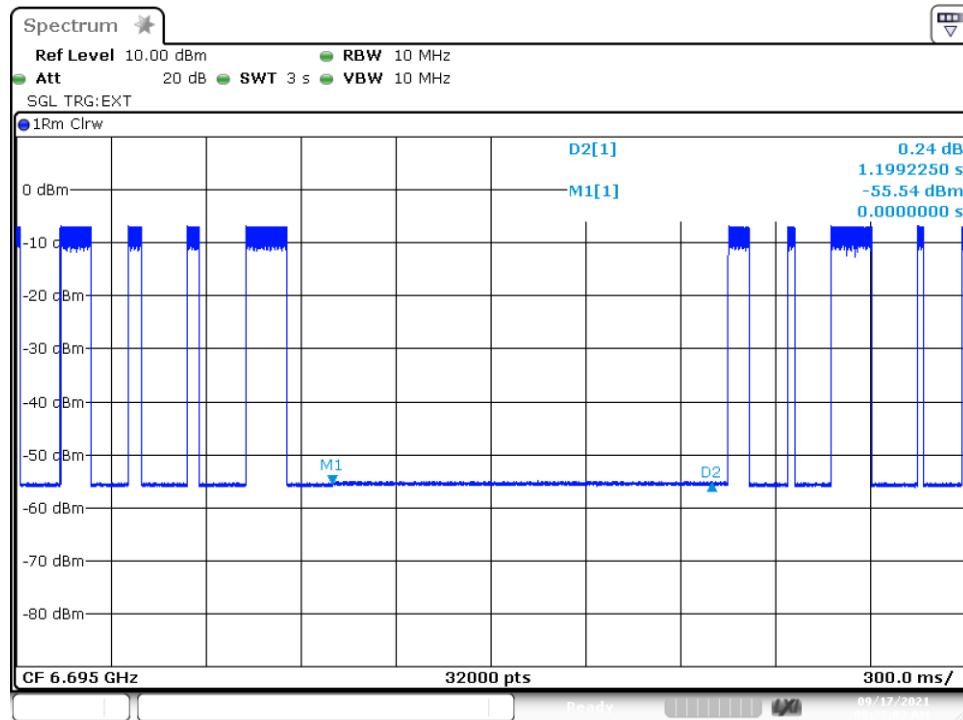
### Channel 105 - Incumbent signal 6475 MHz



Date: 17.SEP.2021 08:11:29

Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

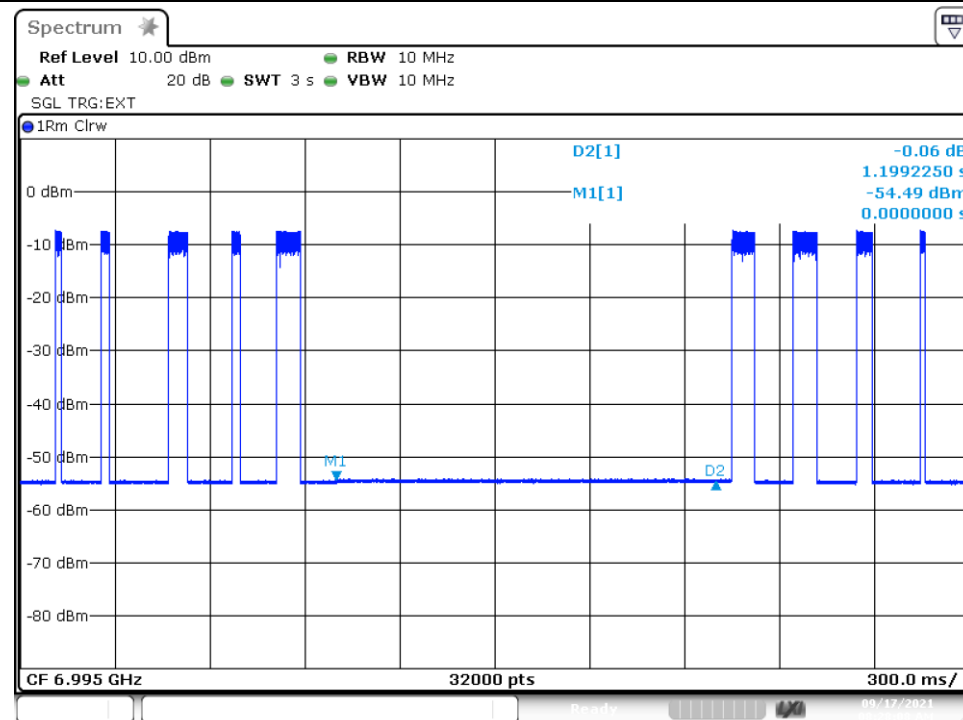
### Channel 149 - Incumbent signal 6695 MHz



Date: 17.SEP.2021 08:22:02

Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

### Channel 209 - Incumbent signal 6995 MHz



Date: 17.SEP.2021 08:28:09

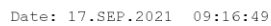
Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal



Channel 15 - Incumbent signal 6025 MHz



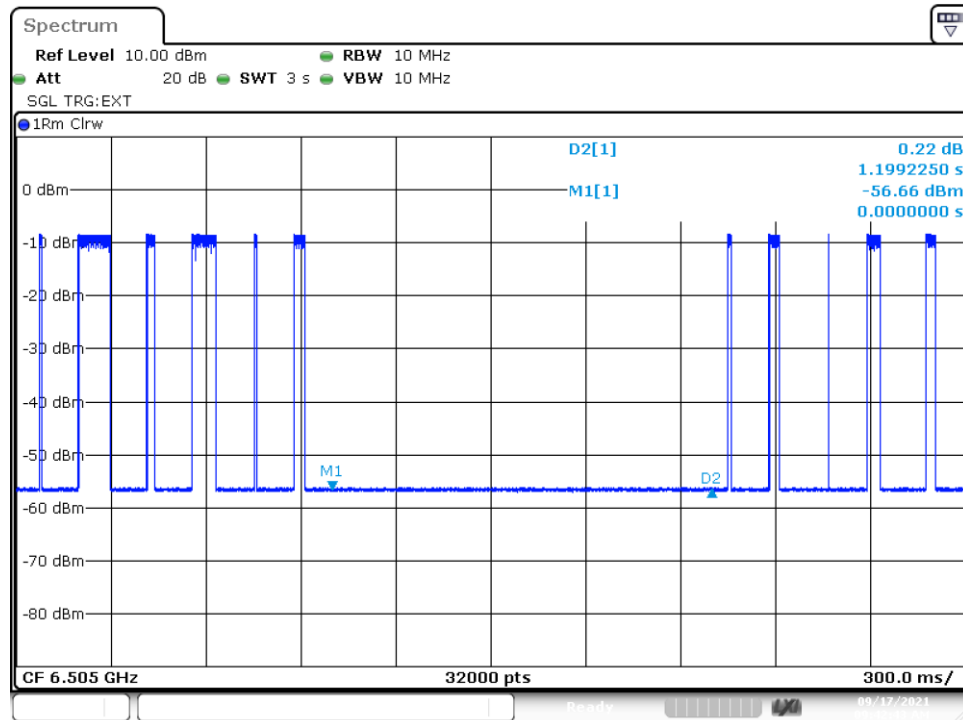
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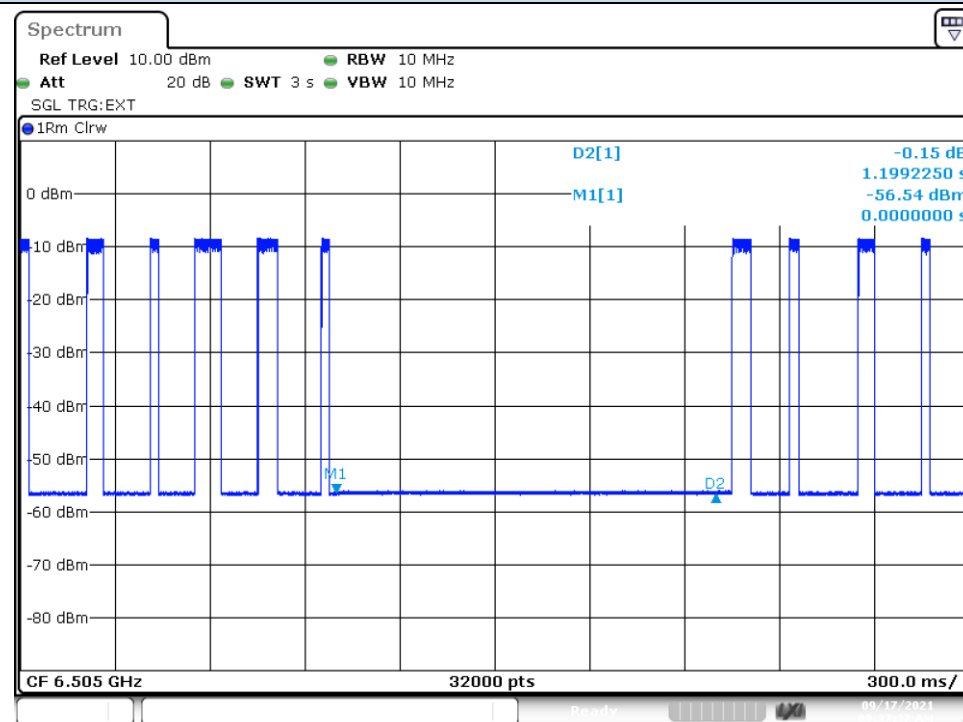


### Channel 111 - Incumbent signal 6430 MHz

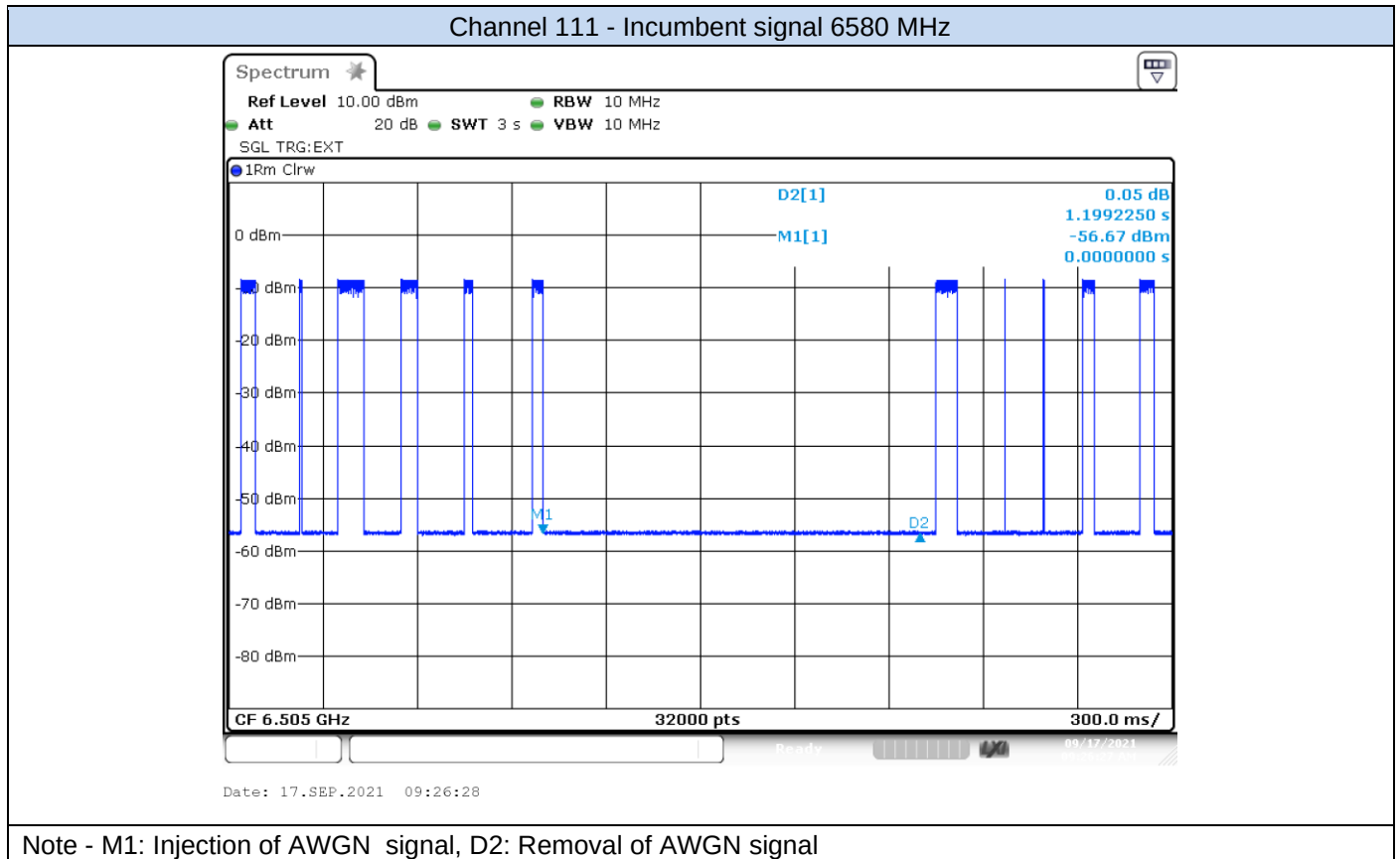


Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

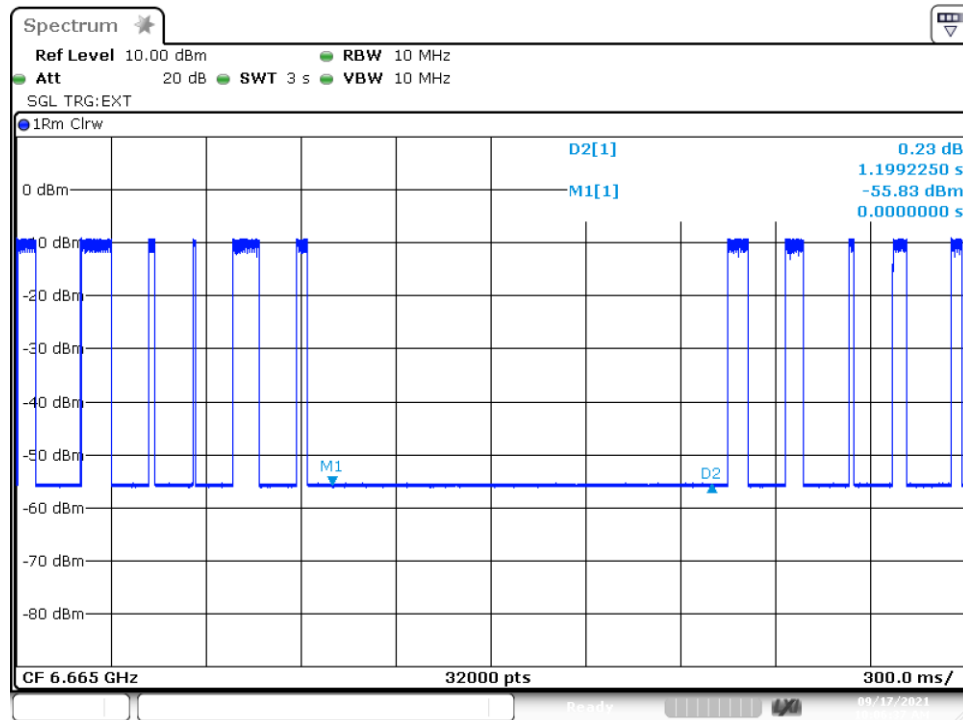
### Channel 111 - Incumbent signal 6505 MHz



Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal



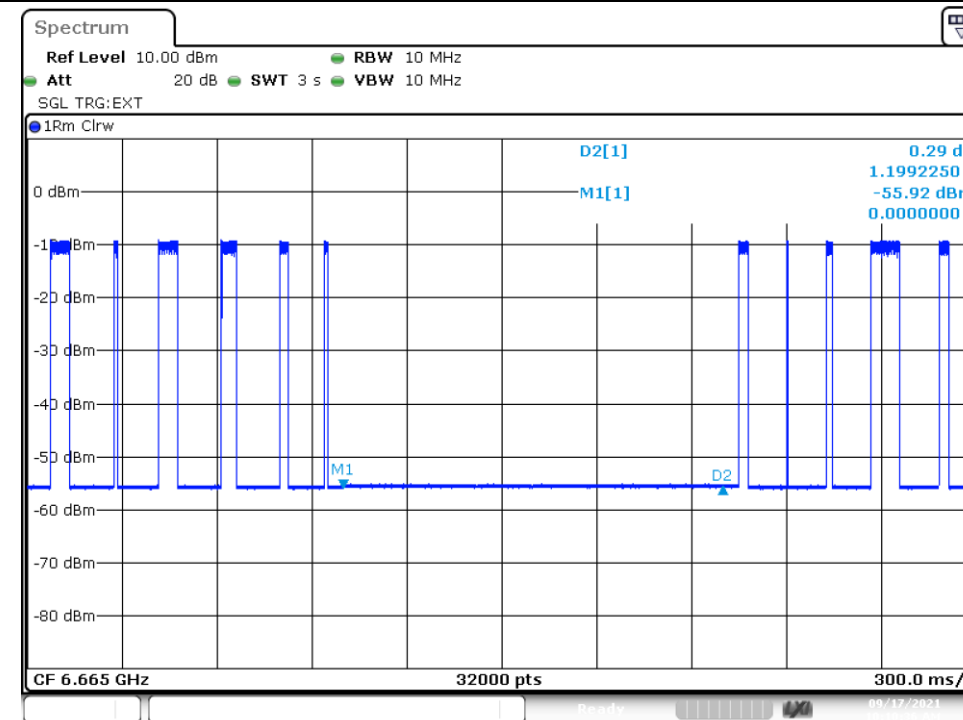
Channel 143 - Incumbent signal 6590 MHz



Date: 17.SEP.2021 10:06:38

Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

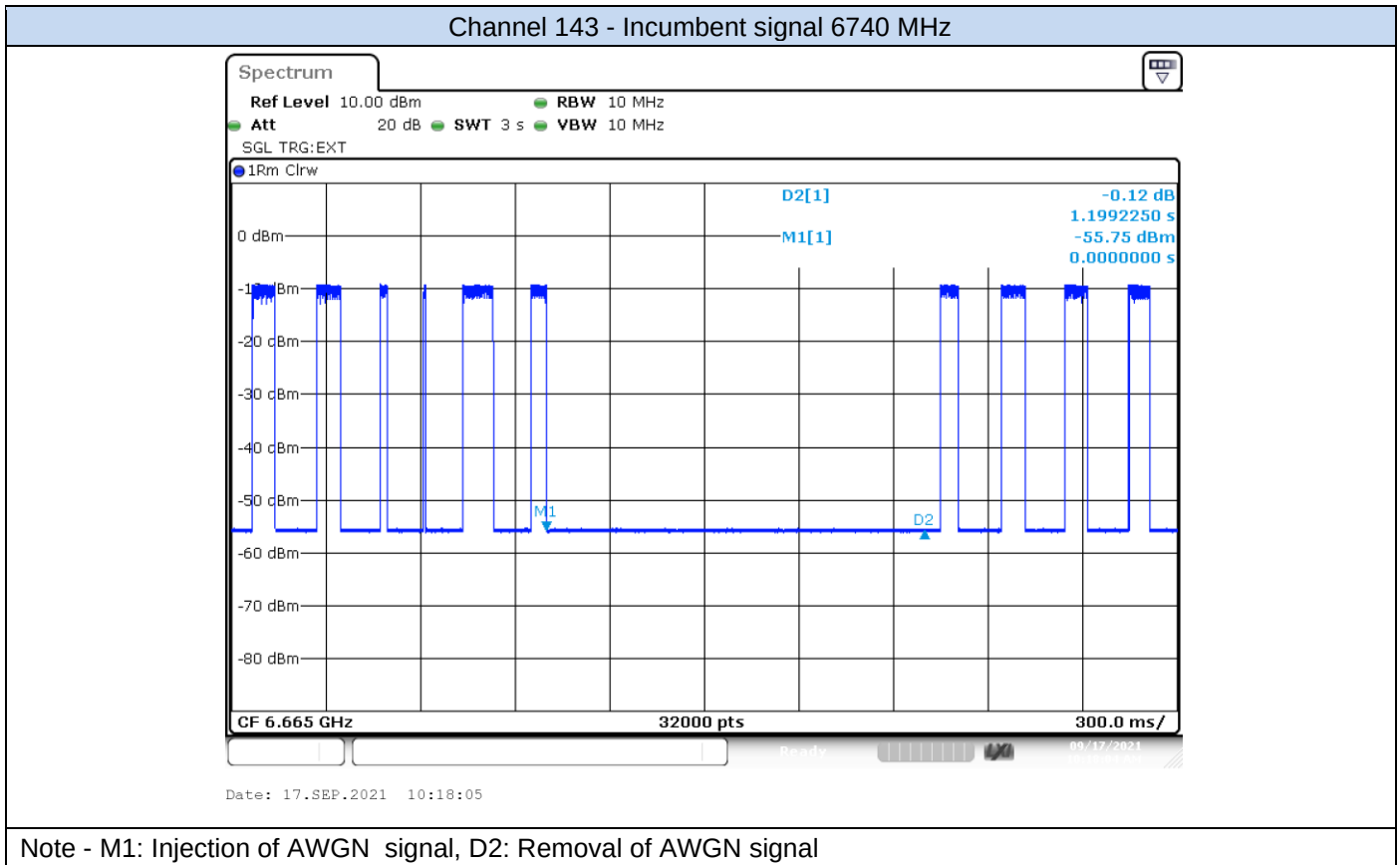
Channel 143 - Incumbent signal 6665 MHz



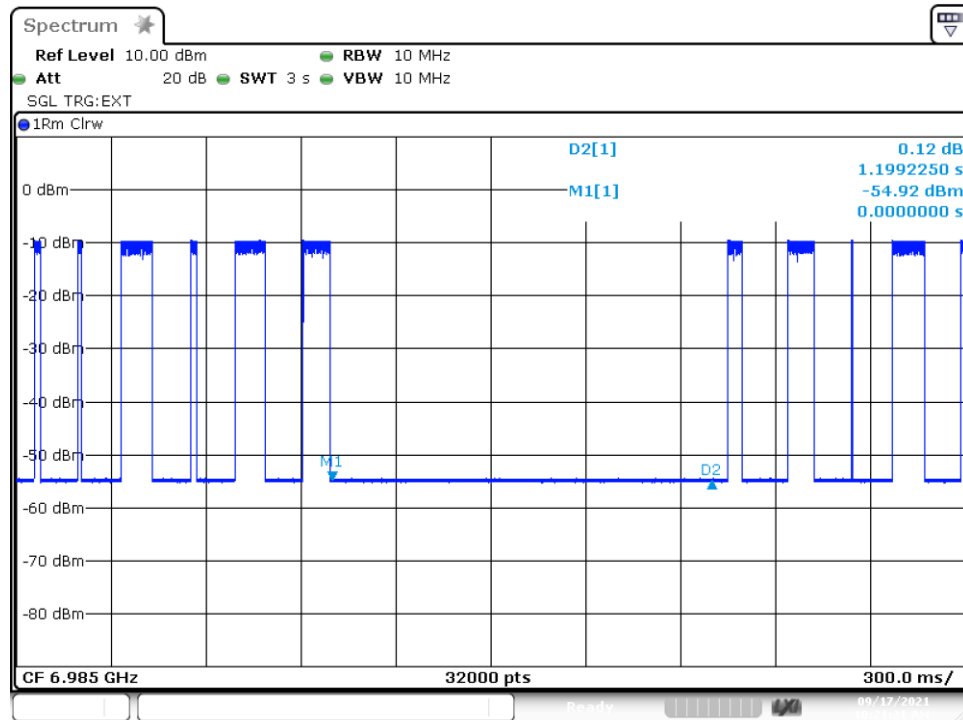
Date: 17.SEP.2021 10:10:37

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Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

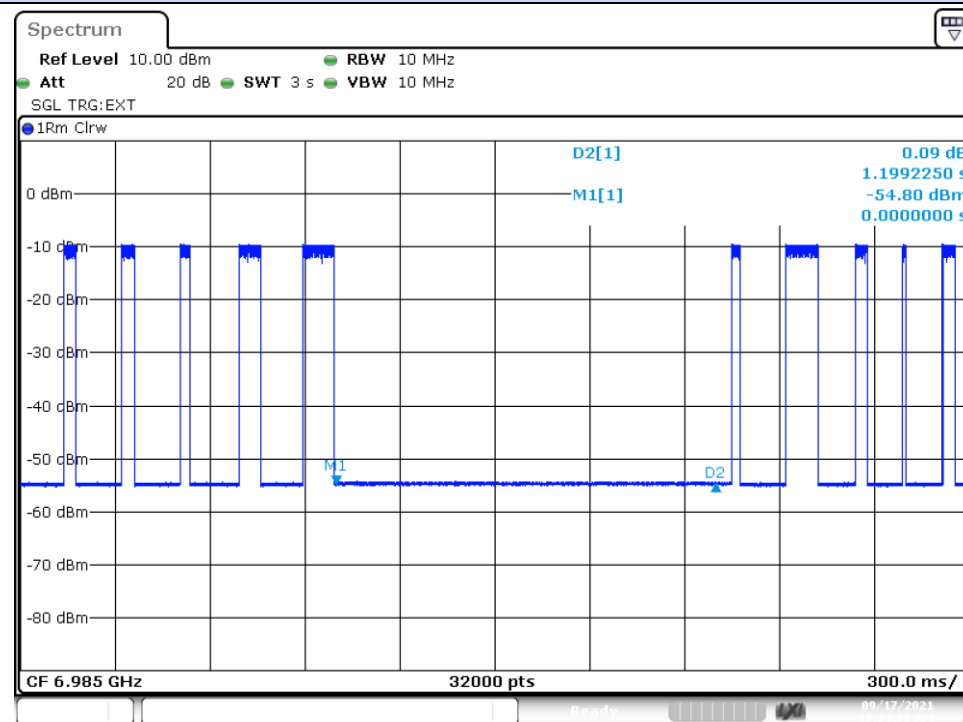


Channel 207 - Incumbent signal 6910 MHz



Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

Channel 207 - Incumbent signal 6985 MHz



Note - M1: Injection of AWGN signal, D2: Removal of AWGN signal

