

## Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

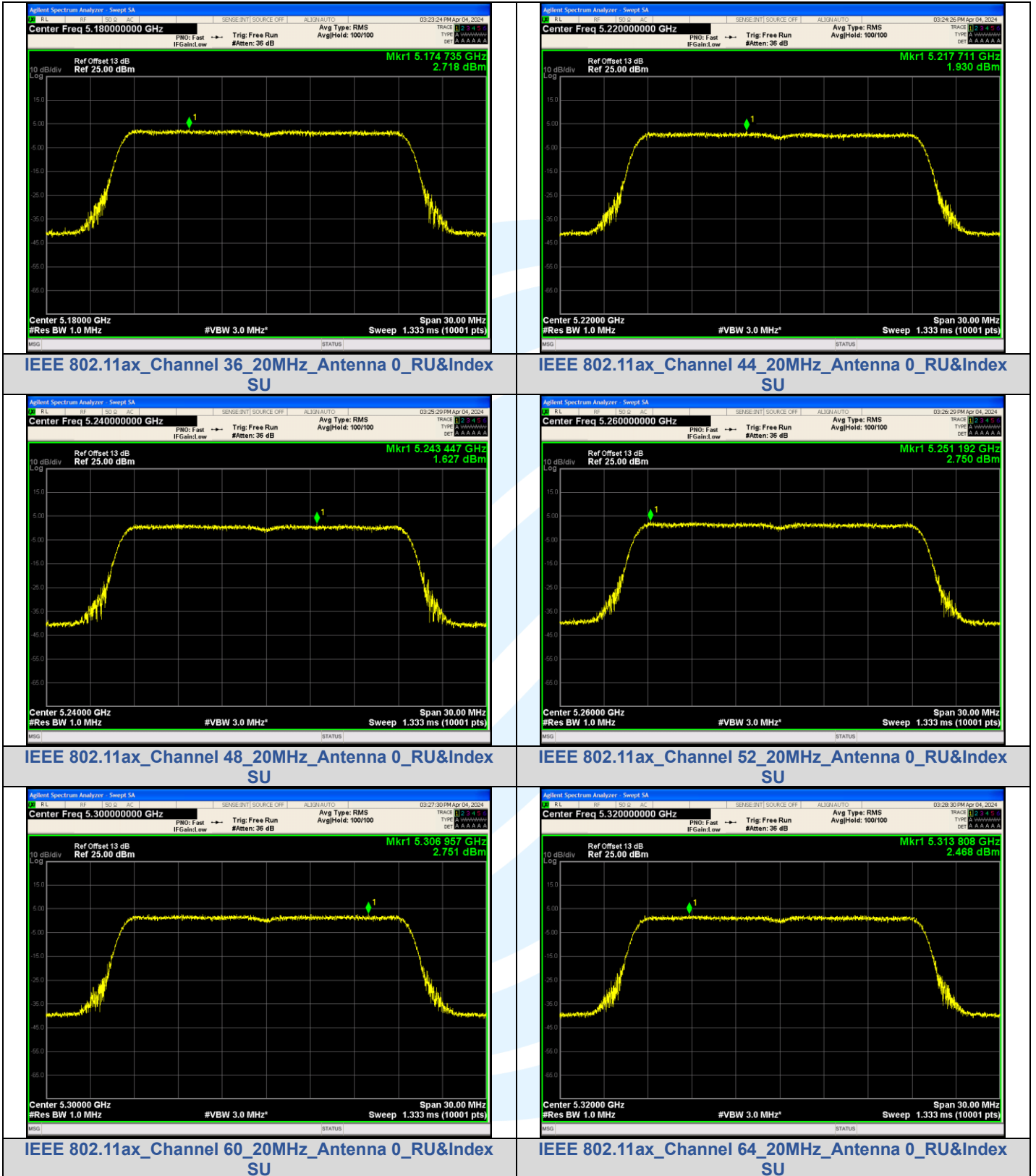
Tel: +86-755-28230888

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E-mail: info@uttlab.com

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UTTR-RF-RSS247-V1.1



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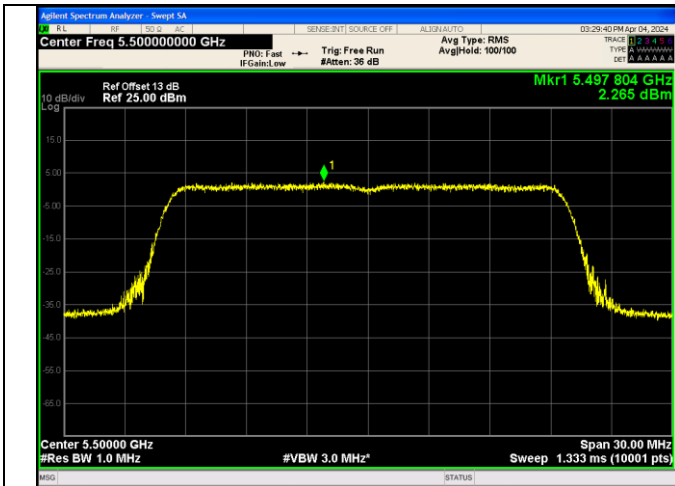
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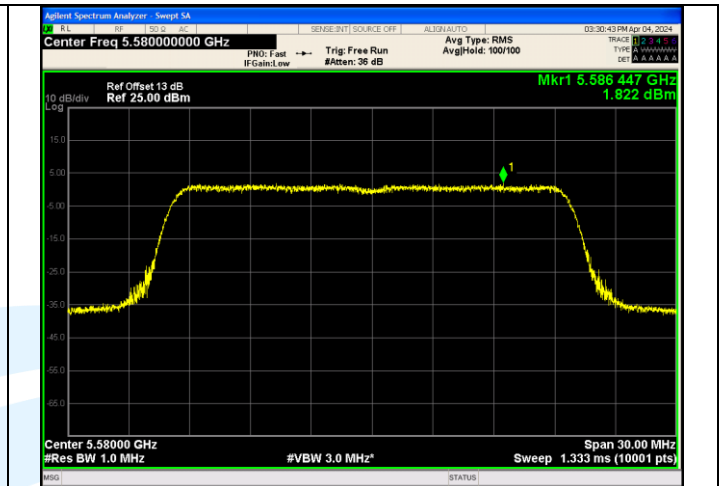
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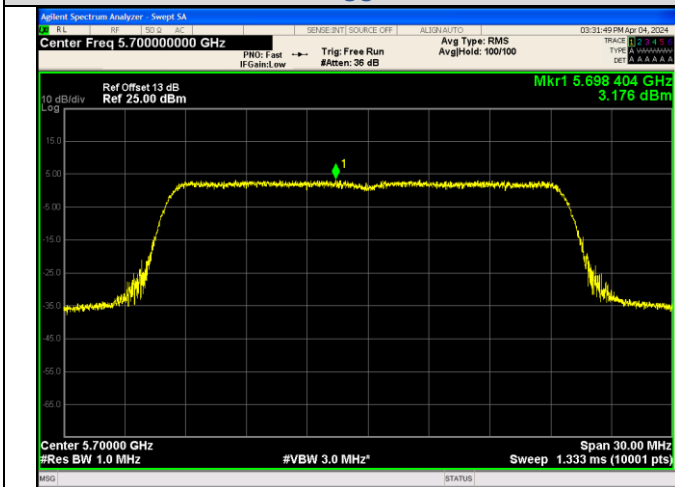
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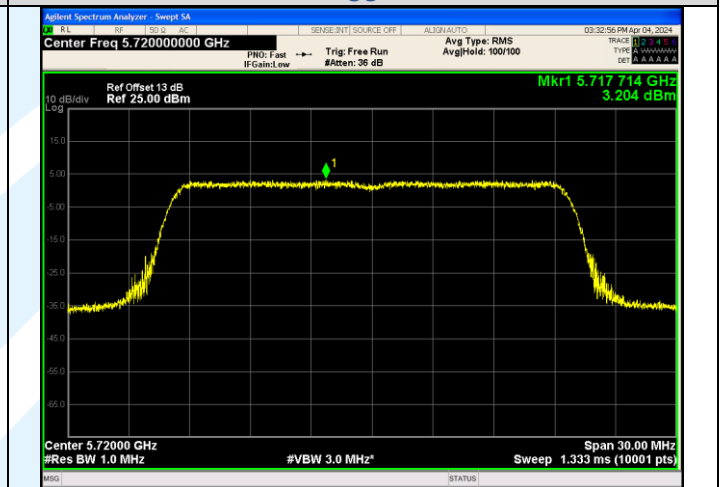
IEEE 802.11ax\_Channel 100\_20MHz\_Antenna 0\_RU&Index SU



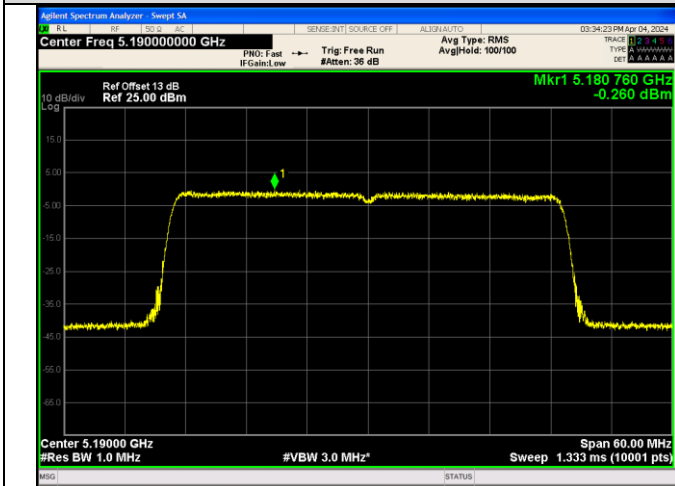
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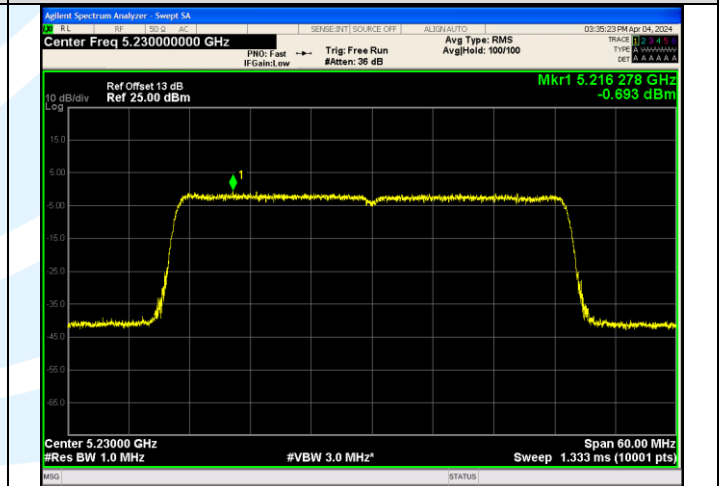
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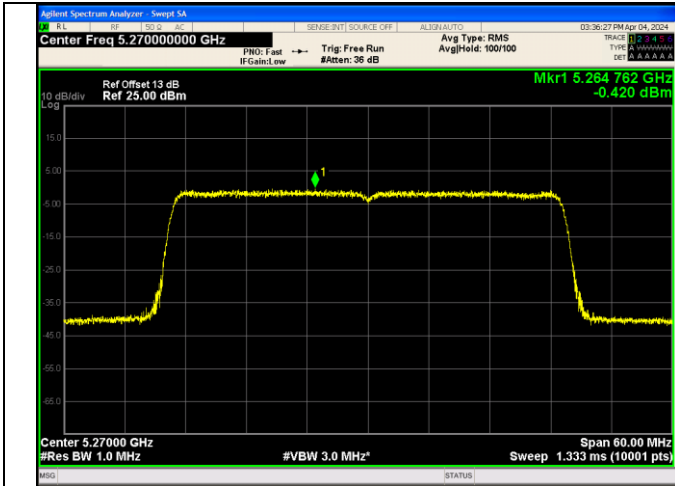
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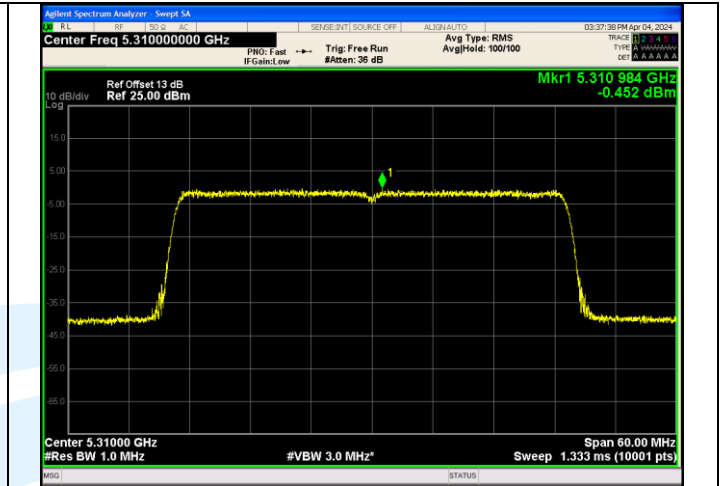
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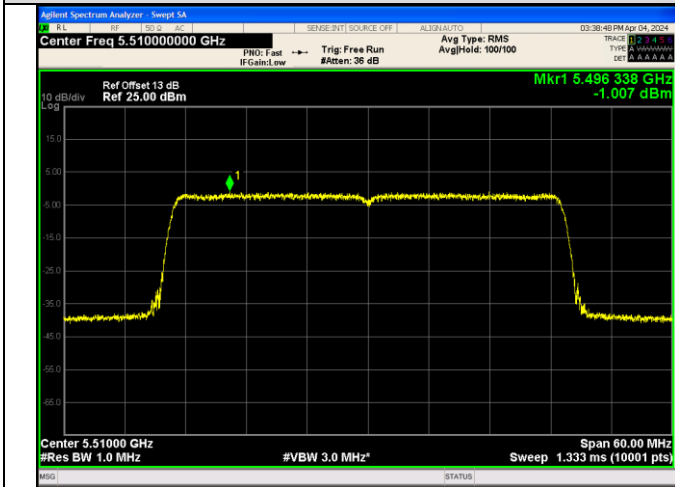
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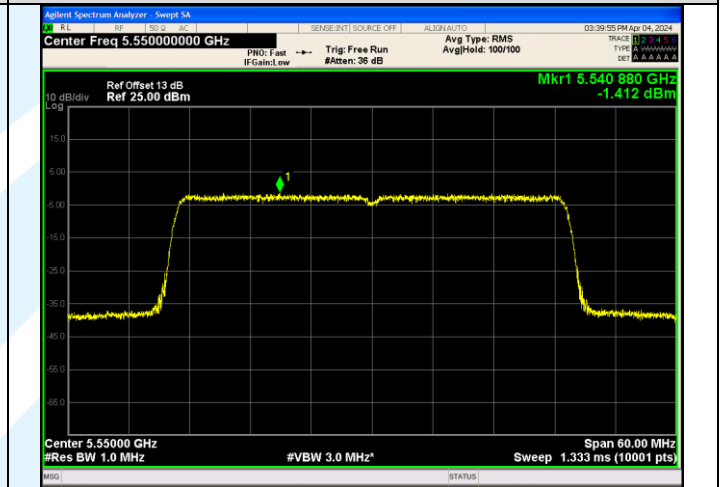
IEEE 802.11ax\_Channel 54\_40MHz\_Antenna 0\_RU&Index SU



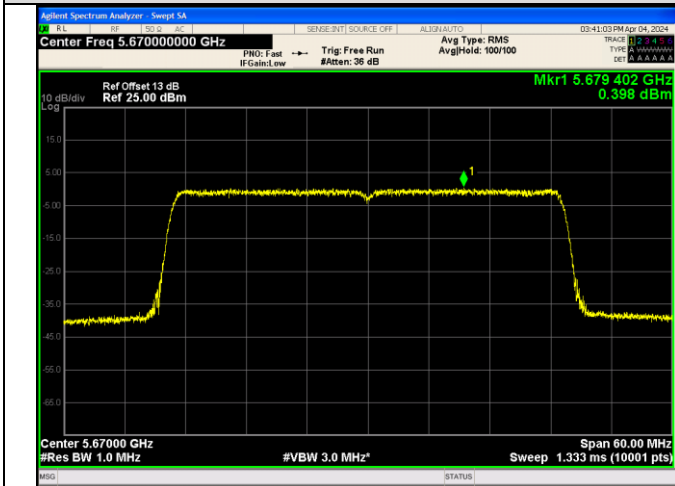
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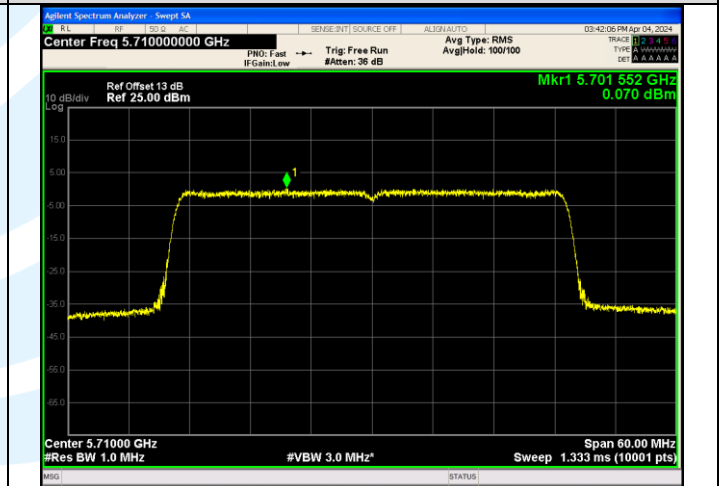
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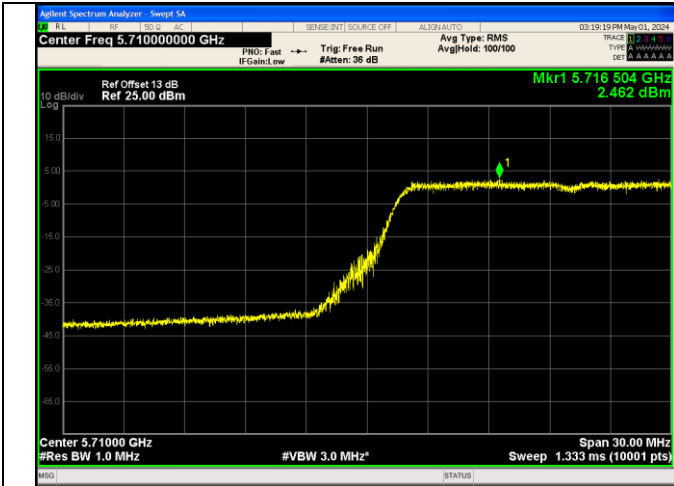
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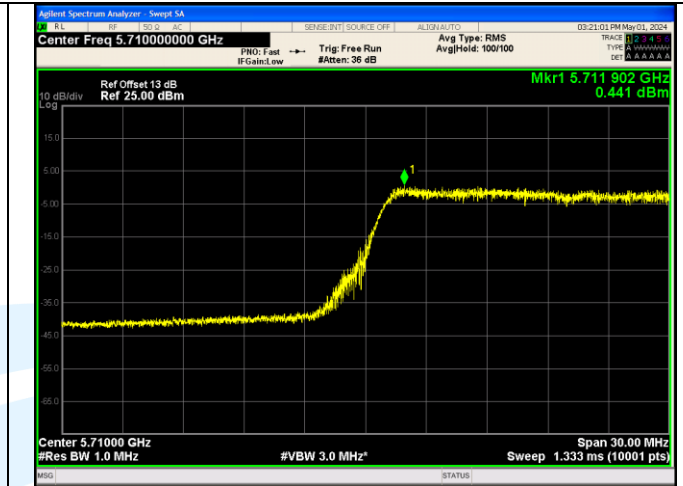
IEEE 802.11ax\_Channel 134\_40MHz\_Antenna 0\_RU&Index SU



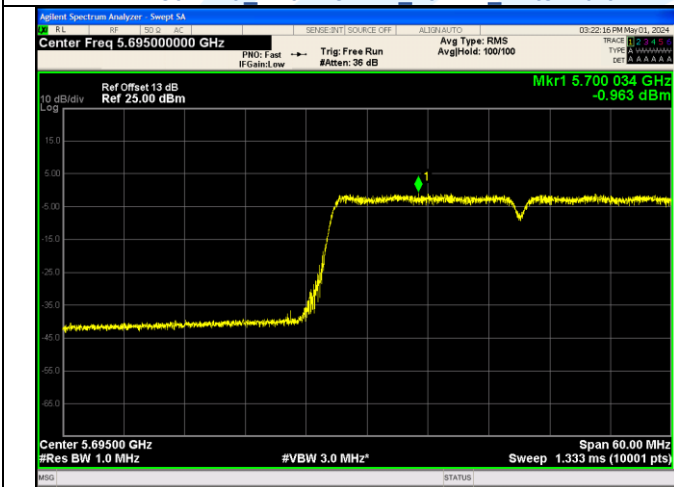
IEEE 802.11ax\_Channel 142\_40MHz\_Antenna 0\_RU&Index SU



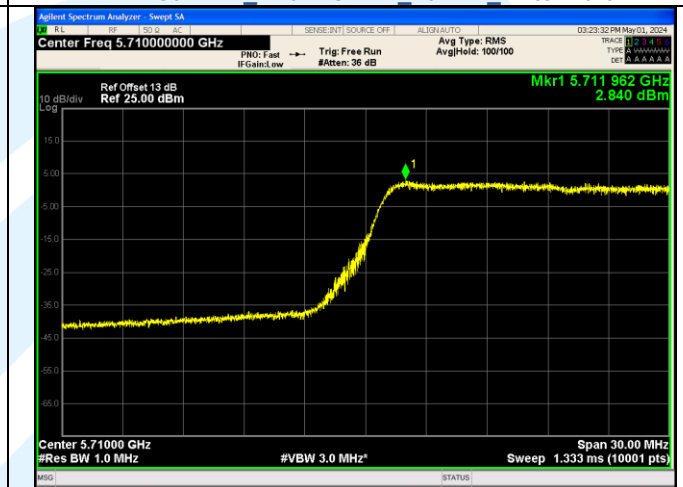
IEEE 802.11a Channel 144\_20MHz\_Antenna 0



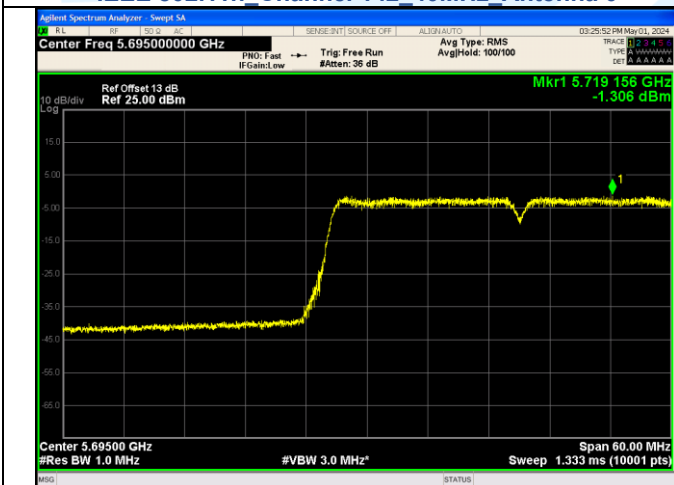
IEEE 802.11n Channel 144\_20MHz\_Antenna 0



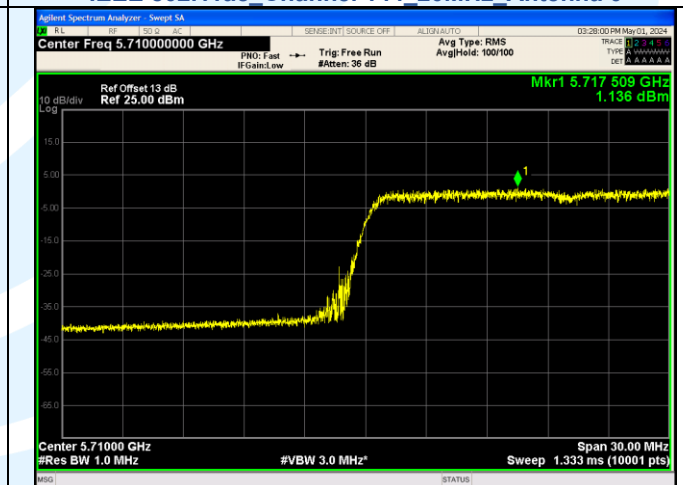
IEEE 802.11n Channel 142\_40MHz\_Antenna 0



IEEE 802.11ac Channel 144\_20MHz\_Antenna 0



IEEE 802.11ac\_Channel 142\_40MHz\_Antenna 0



IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU

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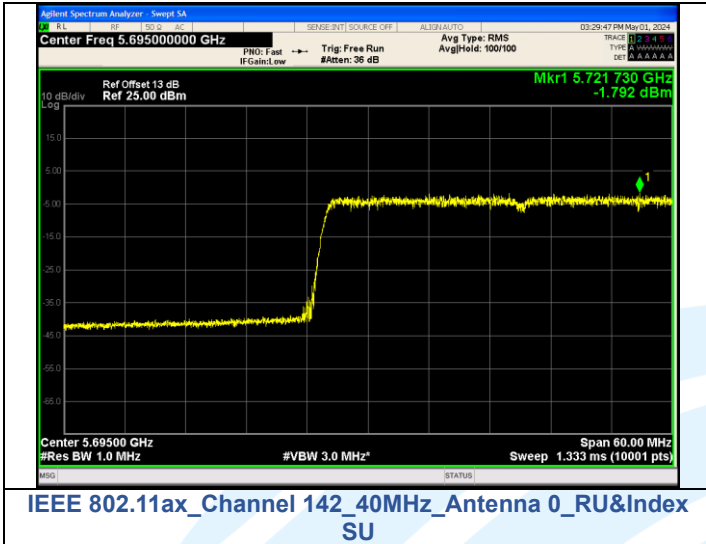
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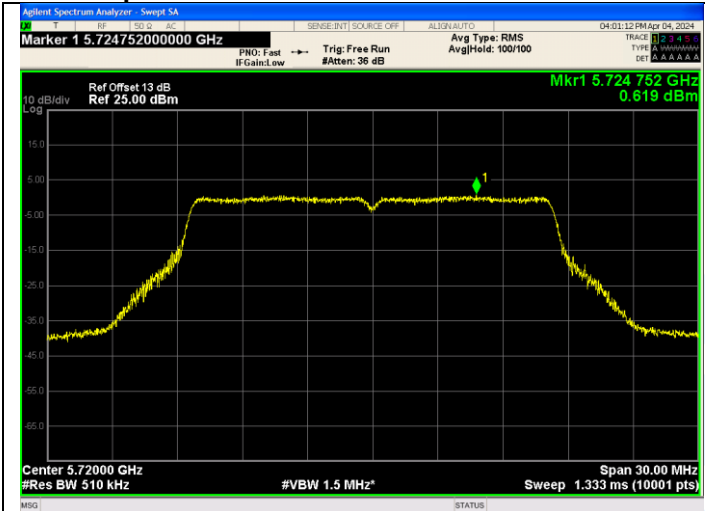
UTTR-RF-RSS247-V1.1

**For U-NII-3 band**

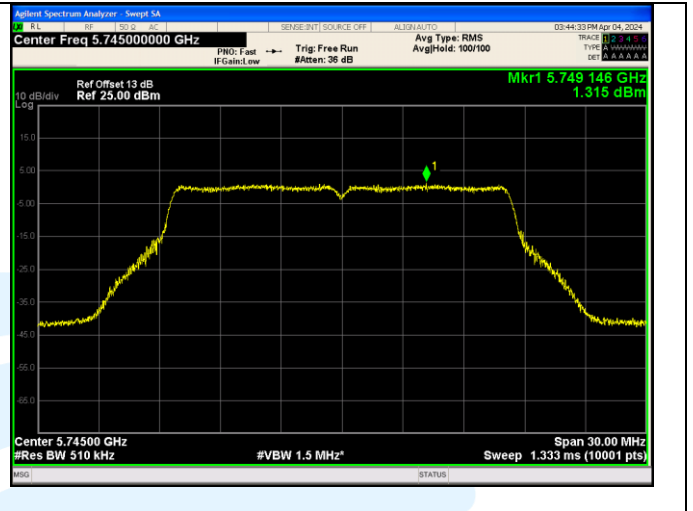
| Mode             | Channel | RU & Index | Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz) | Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz) | Limit (dBm/MHz or dBm/0.5MHz) | Result |
|------------------|---------|------------|---|---|-------------------------------|--------|
| IEEE 802.11a     | 144     | N/A        | 0.619                                   | 0.76                                      | 30                            | PASS   |
|                  | 149     |            | 1.315                                   | 1.46                                      |                               | PASS   |
|                  | 157     |            | 1.023                                   | 1.16                                      |                               | PASS   |
|                  | 165     |            | 0.621                                   | 0.76                                      |                               | PASS   |
| IEEE 802.11n_20  | 144     |            | 0.817                                   | 0.94                                      |                               | PASS   |
|                  | 149     |            | 1.013                                   | 1.13                                      |                               | PASS   |
|                  | 157     |            | 0.653                                   | 0.77                                      |                               | PASS   |
|                  | 165     |            | 0.152                                   | 0.27                                      |                               | PASS   |
| IEEE 802.11n_40  | 142     |            | -2.555                                  | -2.35                                     |                               | PASS   |
|                  | 151     |            | -2.137                                  | -1.93                                     |                               | PASS   |
|                  | 159     |            | -2.267                                  | -2.06                                     |                               | PASS   |
| IEEE 802.11ac_20 | 144     |            | 0.308                                   | 0.43                                      |                               | PASS   |
|                  | 149     |            | 0.696                                   | 0.82                                      |                               | PASS   |
|                  | 157     |            | 1.086                                   | 1.21                                      |                               | PASS   |
|                  | 165     |            | 0.219                                   | 0.34                                      |                               | PASS   |
| IEEE 802.11ac_40 | 142     |            | -2.580                                  | -2.46                                     |                               | PASS   |
|                  | 151     | -2.035     | -1.92                                   | PASS                                      |                               |        |
|                  | 159     | -2.475     | -2.36                                   | PASS                                      |                               |        |
| IEEE 802.11ax_20 | 144     | SU         | 0.118                                   | 0.28                                      | PASS                          |        |
|                  | 149     |            | 0.711                                   | 0.87                                      | PASS                          |        |
|                  | 157     |            | 0.461                                   | 0.62                                      | PASS                          |        |
|                  | 165     |            | 0.350                                   | 0.51                                      | PASS                          |        |
| IEEE 802.11ax_40 | 142     |            | -2.834                                  | -2.69                                     | PASS                          |        |
|                  | 151     |            | -2.187                                  | -2.05                                     | PASS                          |        |
|                  | 159     |            | -2.294                                  | -2.15                                     | PASS                          |        |

| Mode             | Channel | RU & Index | Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz) | Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz) | Limit (dBm/MHz or dBm/0.5MHz) | Result |      |
|------------------|---------|------------|---|---|-------------------------------|--------|------|
| IEEE 802.11a     | 144     | N/A        | -0.508                                  | 2.239                                     | 30                            | PASS   |      |
| IEEE 802.11n_20  |         |            | -2.188                                  | 0.641                                     |                               | PASS   |      |
| IEEE 802.11n_40  |         |            | 142                                     | -4.846                                    |                               | -1.636 | PASS |
| IEEE 802.11ac_20 |         |            | 144                                     | -0.847                                    |                               | 1.978  | PASS |
| IEEE 802.11ac_40 |         |            | 142                                     | -4.849                                    |                               | -1.845 | PASS |
| IEEE 802.11ax_20 |         |            | 144                                     | -0.811                                    |                               | 2.644  | PASS |
| IEEE 802.11ax_40 | 142     | SU         | -5.685                                  | -2.213                                    | PASS                          |        |      |

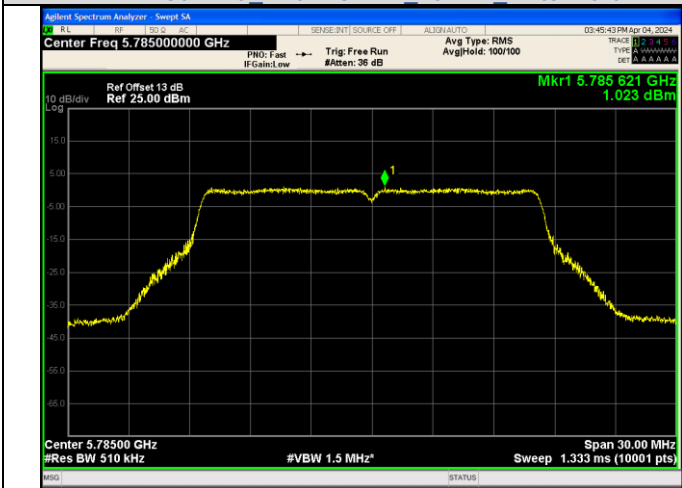
## Test Graphs



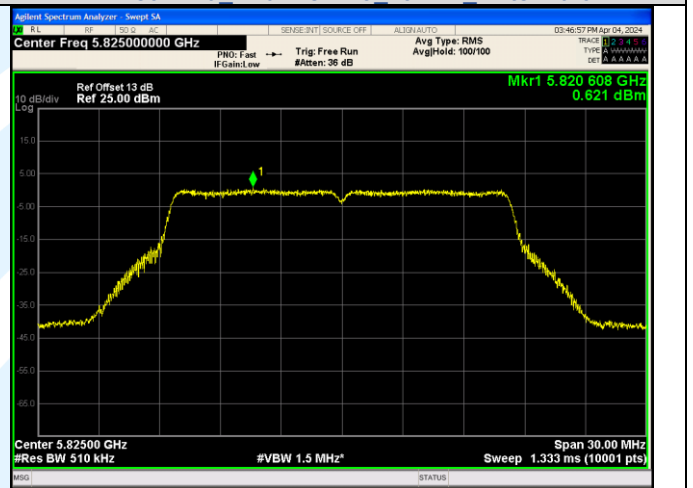
IEEE 802.11a Channel 144 20MHz Antenna 0



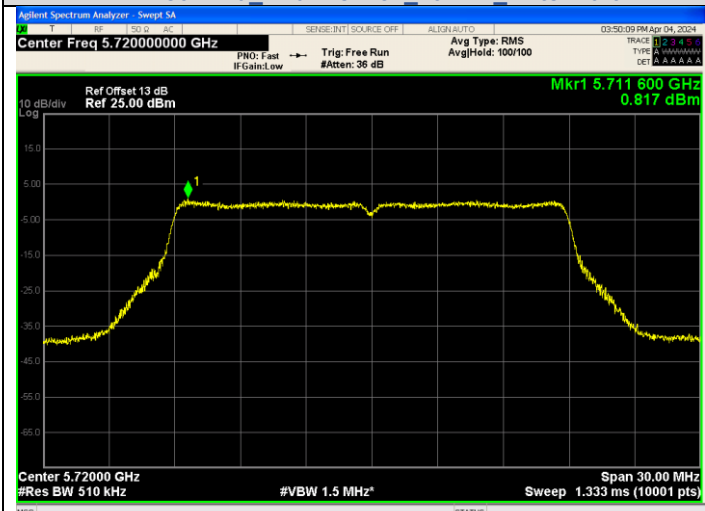
IEEE 802.11a Channel 149 20MHz Antenna 0



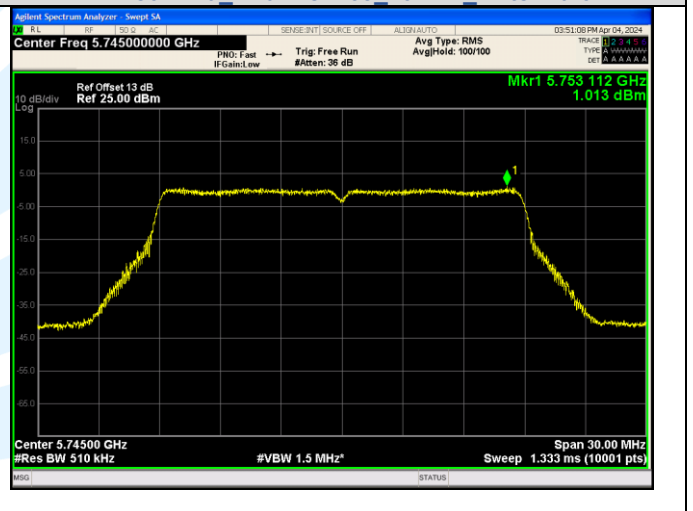
IEEE 802.11a Channel 157 20MHz Antenna 0



IEEE 802.11a Channel 165 20MHz Antenna 0

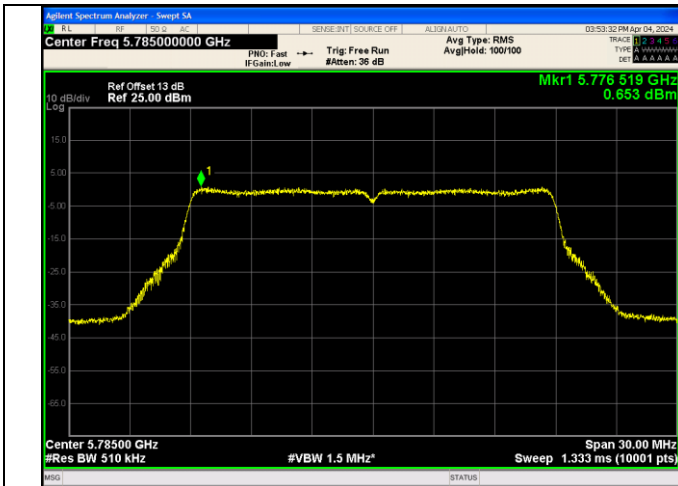


IEEE 802.11n Channel 144 20MHz Antenna 0

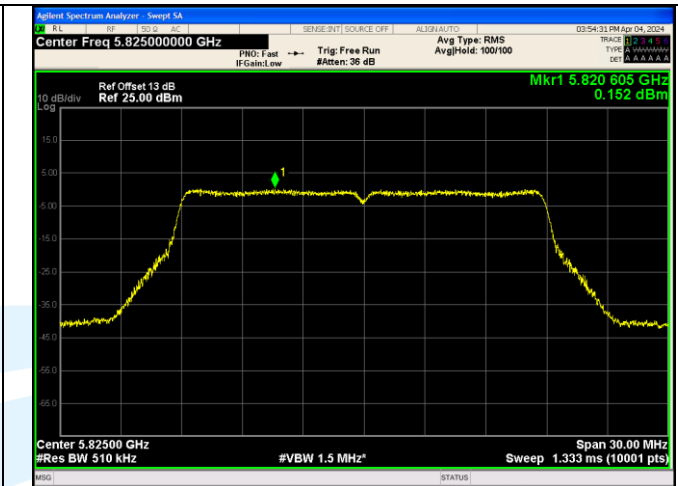


IEEE 802.11n Channel 149 20MHz Antenna 0

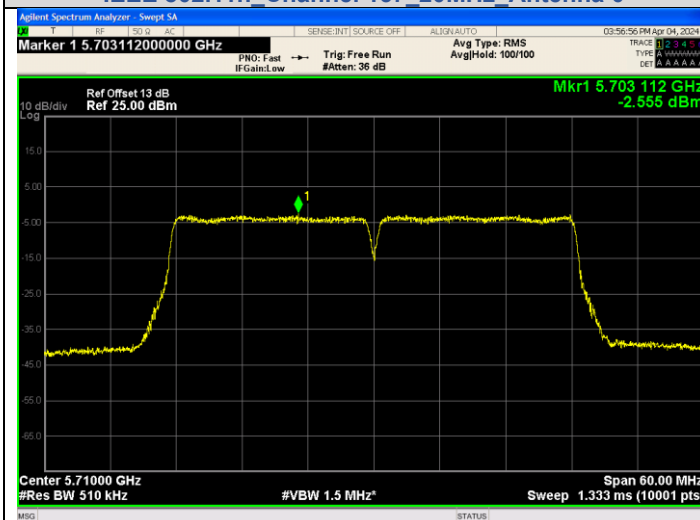




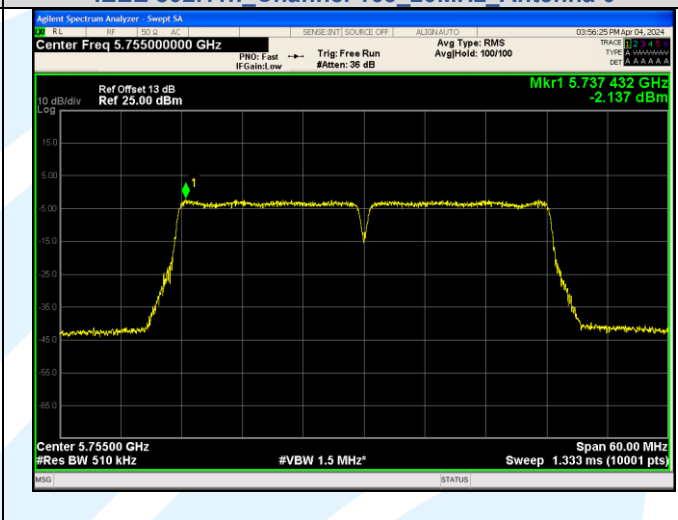
IEEE 802.11n Channel 157 20MHz Antenna 0



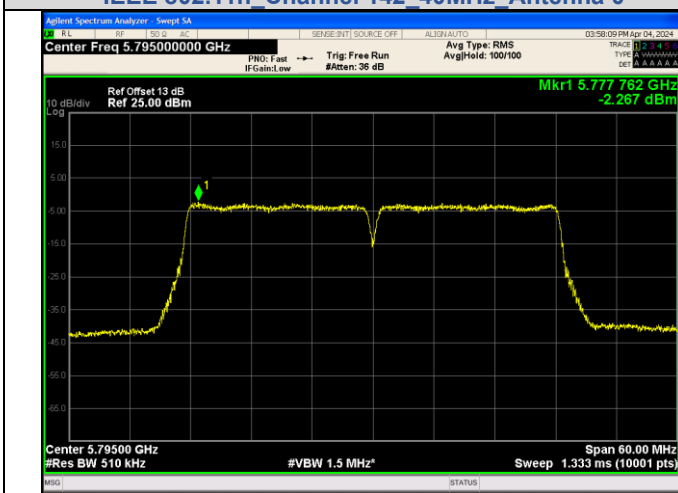
IEEE 802.11n Channel 165 20MHz Antenna 0



IEEE 802.11n Channel 142 40MHz Antenna 0



IEEE 802.11n Channel 151 40MHz Antenna 0



IEEE 802.11n Channel 159 40MHz Antenna 0



IEEE 802.11ac Channel 144 20MHz Antenna 0

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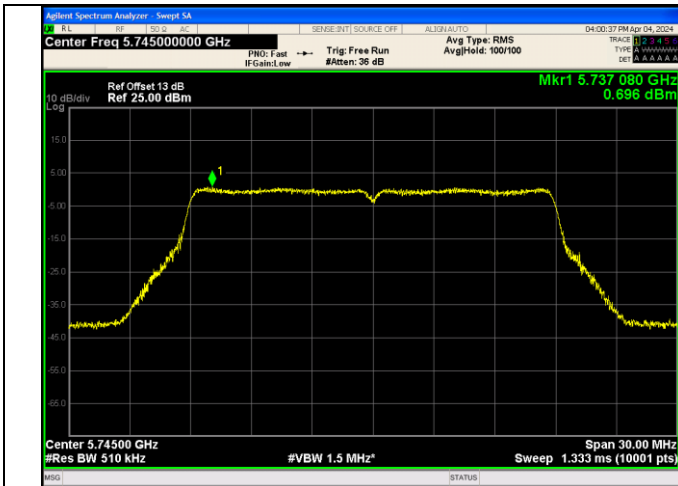
Tel: +86-755-28230888

Fax: +86-755-28230886

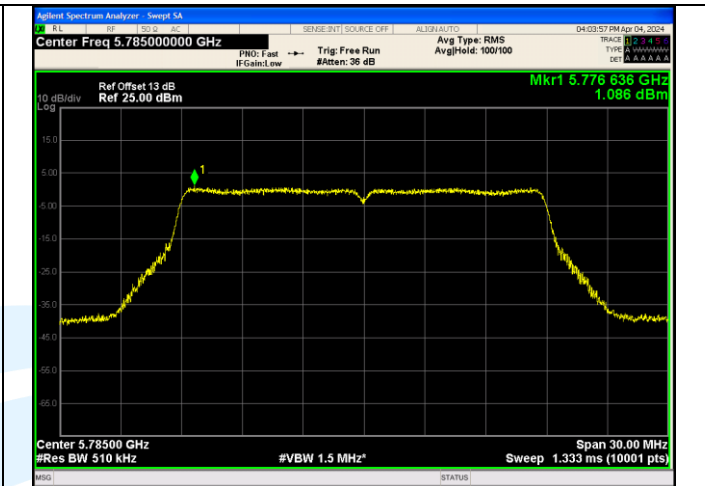
E-mail: info@uttlab.com

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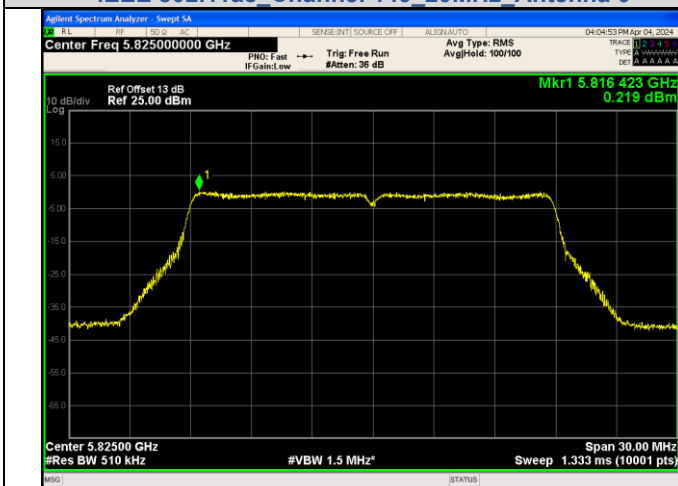
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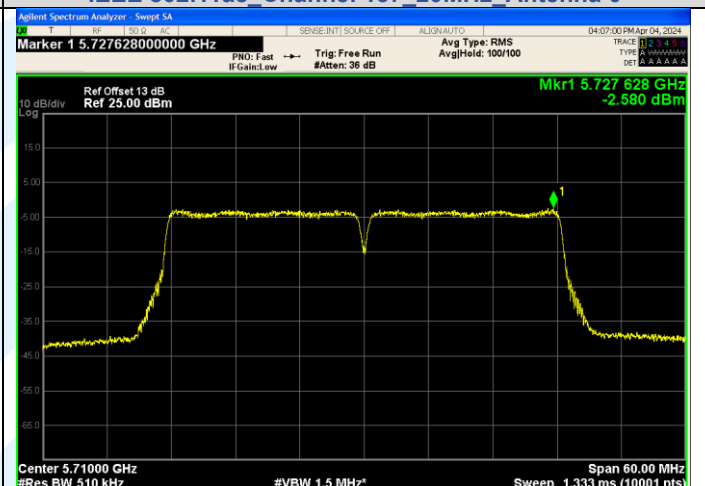
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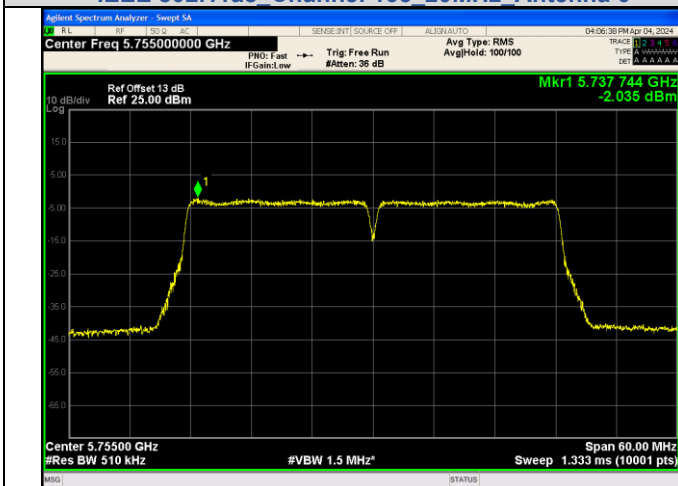
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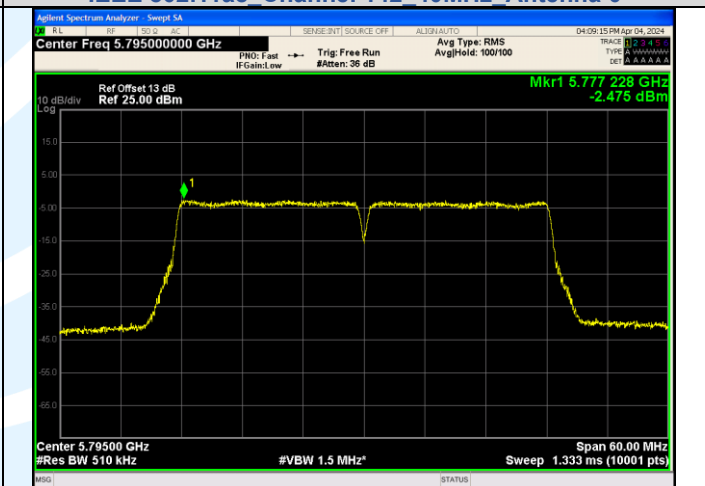
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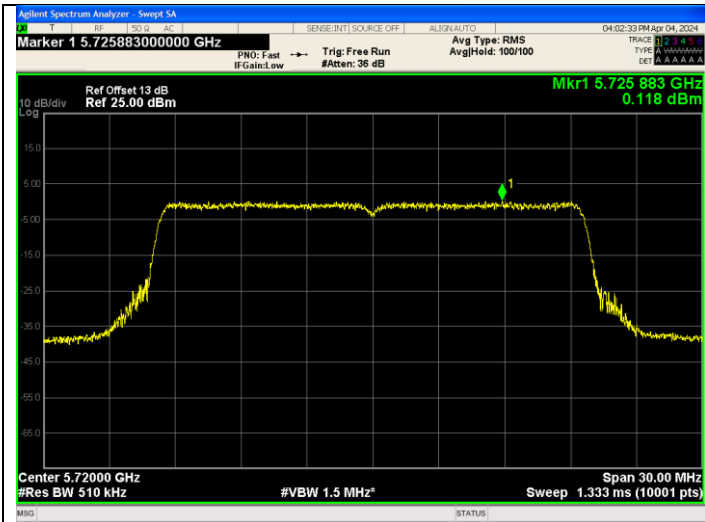
IEEE 802.11ac Channel 142 40MHz Antenna 0



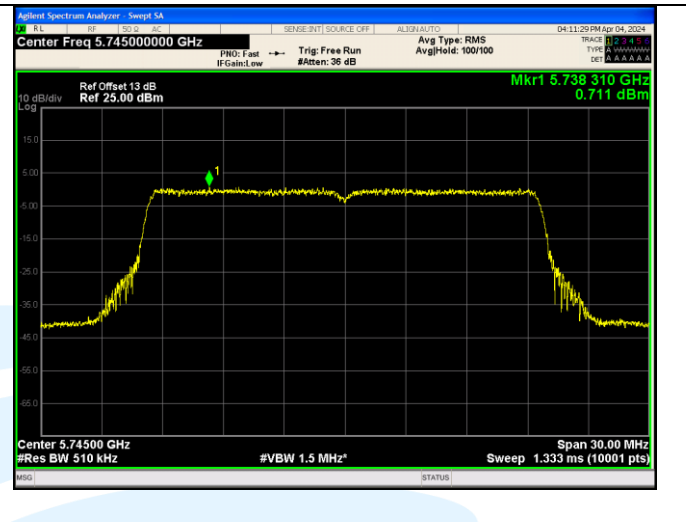
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IEEE 802.11ac Channel 159 40MHz Antenna 0



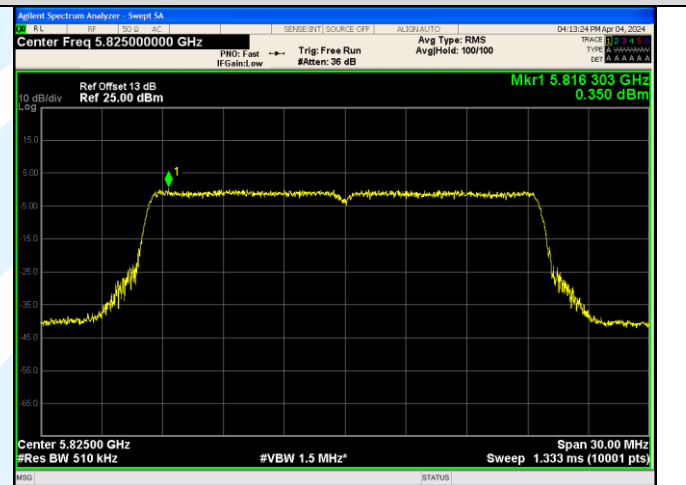
IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU



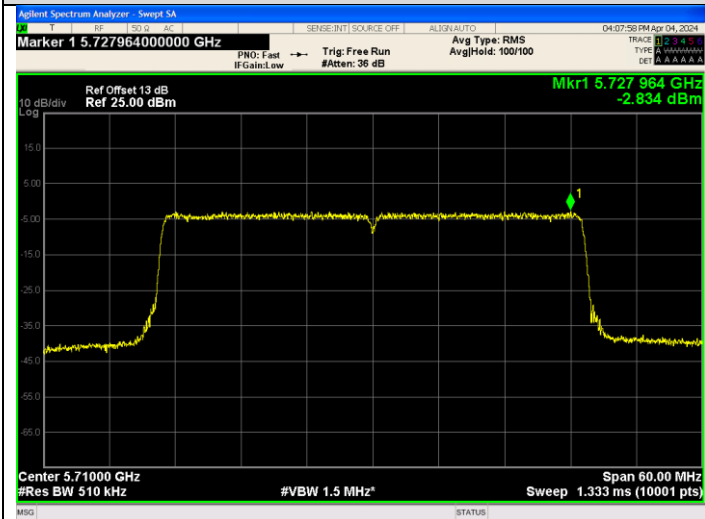
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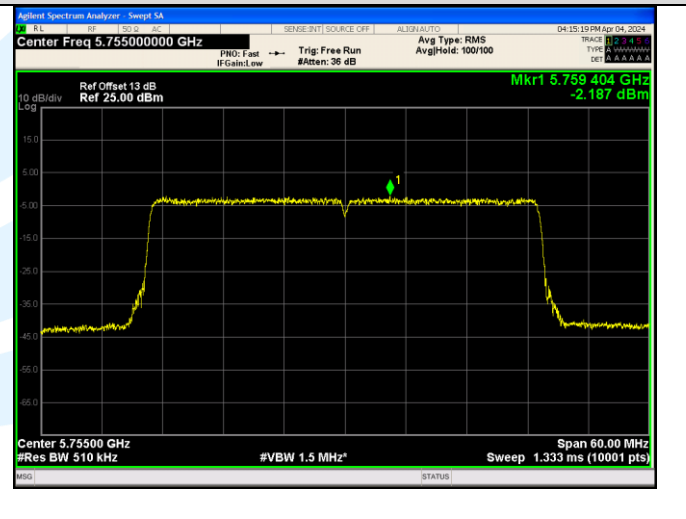
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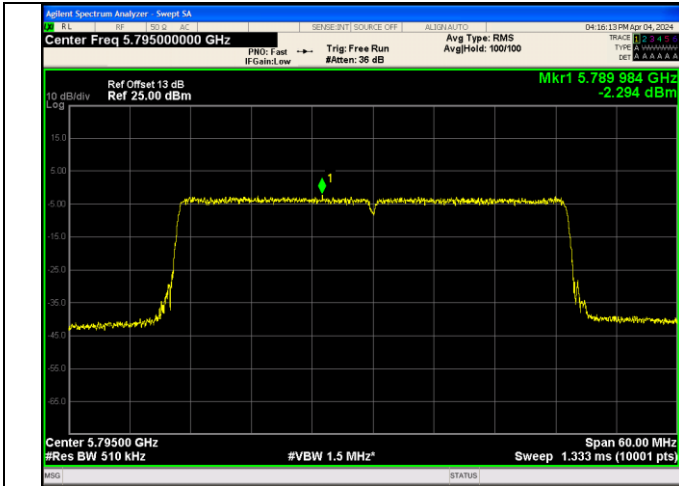
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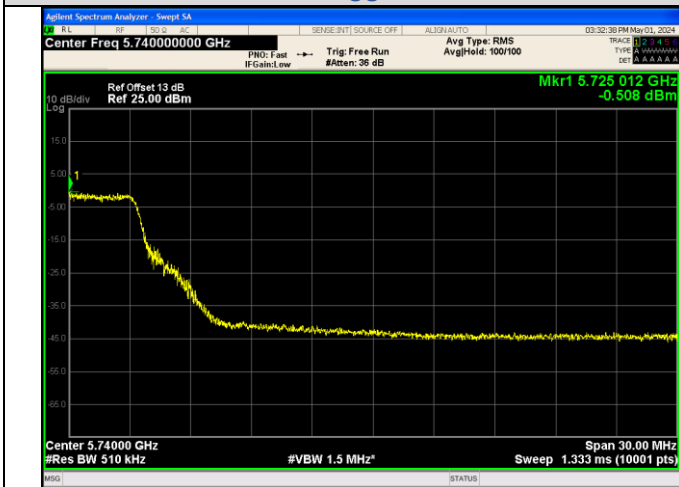
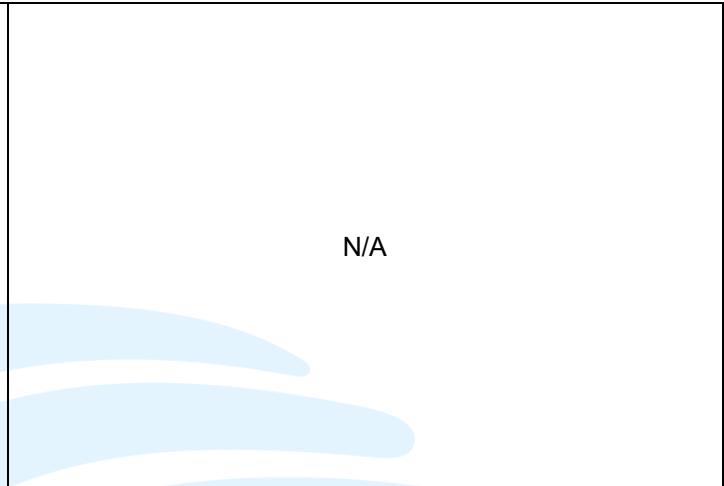
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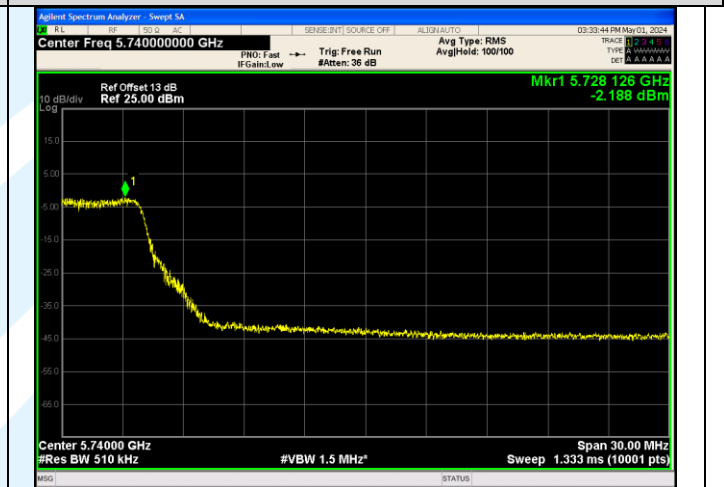
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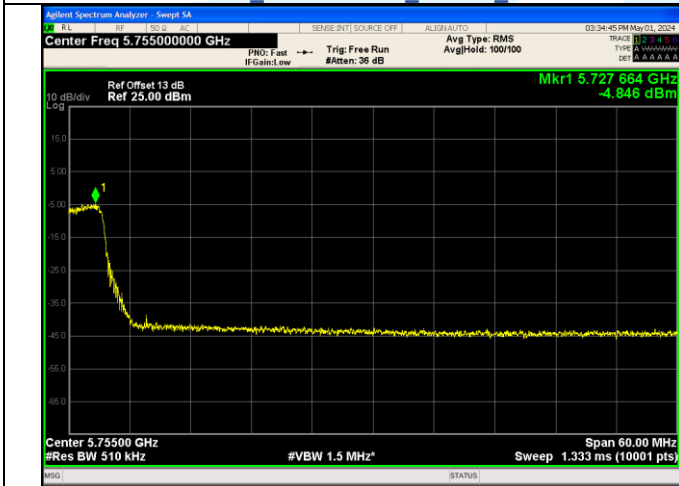
IEEE 802.11ax\_Channel 159\_40MHz\_Antenna 0\_RU&Index SU



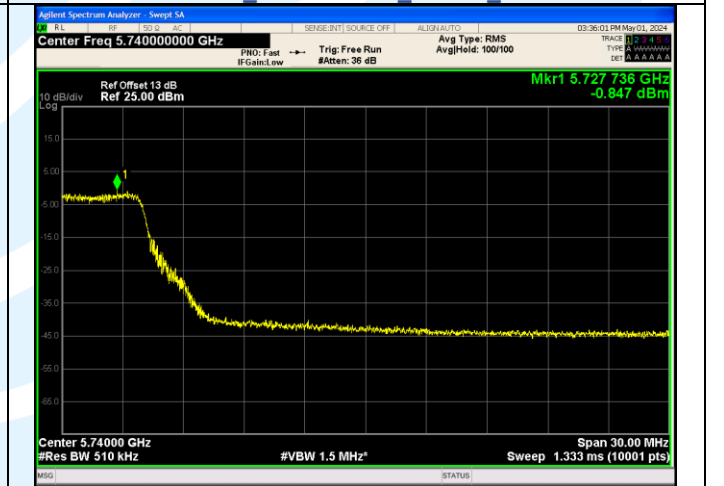
IEEE 802.11a\_Channel 144\_20MHz\_Antenna 0



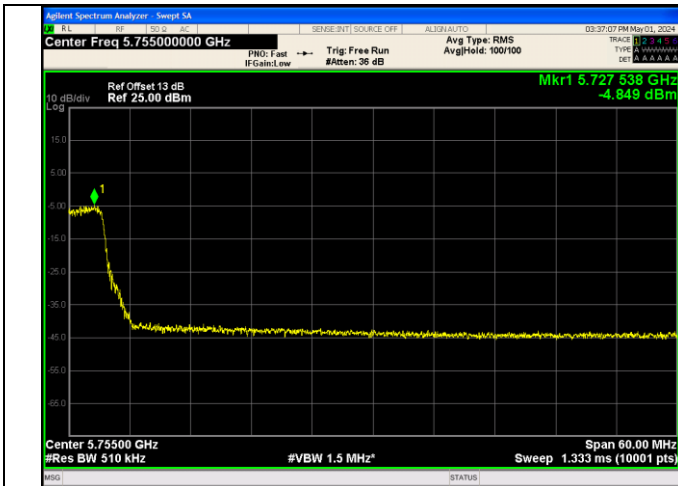
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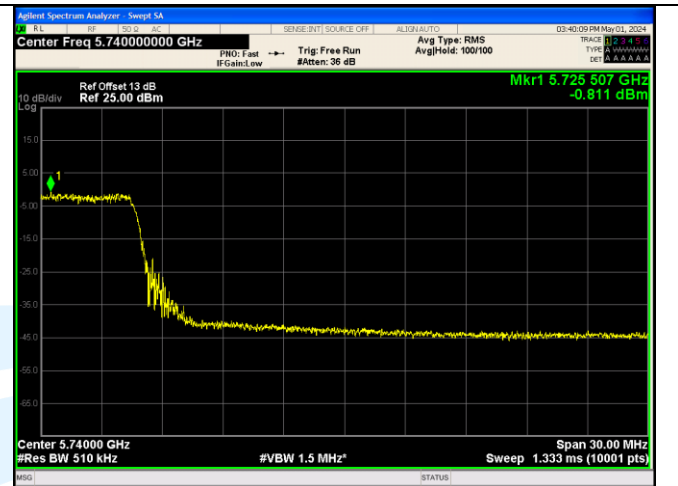
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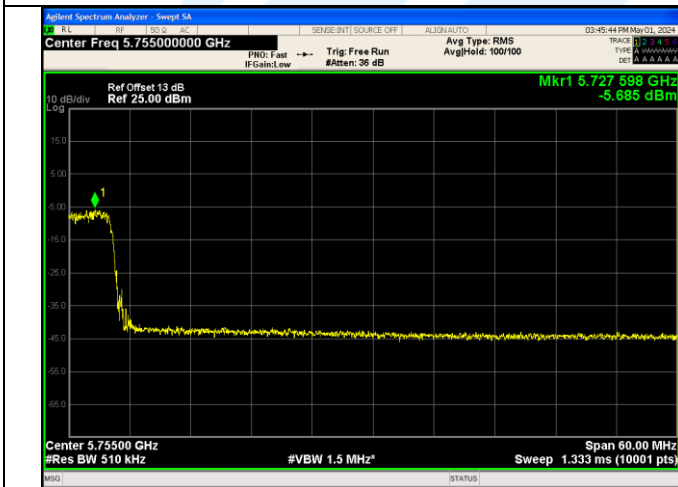
IEEE 802.11ac\_Channel 144\_20MHz\_Antenna 0



IEEE 802.11ac\_Channel 142\_40MHz\_Antenna 0



IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 142\_40MHz\_Antenna 0\_RU&Index SU

### A.4 6DB BANDWIDTH

For U-NII-3 band

| Mode             | Channel | RU & Index | Ant.  | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |       |     |      |
|------------------|---------|------------|-------|------------------------|----------------------|-------------|--------|-------|-----|------|
| IEEE 802.11a     | 144     | N/A        | 0     | 5720                   | 16.46                | 0.5         | PASS   |       |     |      |
|                  | 149     |            |       | 5745                   | 16.38                |             | PASS   |       |     |      |
|                  | 157     |            |       | 5785                   | 16.45                |             | PASS   |       |     |      |
|                  | 165     |            |       | 5825                   | 16.37                |             | PASS   |       |     |      |
| IEEE 802.11n_20  | 144     |            |       | 5720                   | 17.68                |             | PASS   |       |     |      |
|                  | 149     |            |       | 5745                   | 17.69                |             | PASS   |       |     |      |
|                  | 157     |            |       | 5785                   | 17.68                |             | PASS   |       |     |      |
|                  | 165     |            |       | 5825                   | 17.66                |             | PASS   |       |     |      |
| IEEE 802.11n_40  | 142     |            |       | 5710                   | 36.35                |             | PASS   |       |     |      |
|                  | 151     |            |       | 5755                   | 36.36                |             | PASS   |       |     |      |
|                  | 159     |            |       | 5795                   | 36.34                |             | PASS   |       |     |      |
| IEEE 802.11ac_20 | 144     |            |       | SU                     | 0                    |             | 5720   | 17.66 | 0.5 | PASS |
|                  | 149     |            |       |                        |                      |             | 5745   | 17.69 |     | PASS |
|                  | 157     |            |       |                        |                      |             | 5785   | 17.69 |     | PASS |
|                  | 165     |            |       |                        |                      |             | 5825   | 17.71 |     | PASS |
| IEEE 802.11ac_40 | 142     |            |       |                        |                      |             | 5710   | 36.35 |     | PASS |
|                  | 151     | 5755       | 36.33 |                        |                      | PASS        |        |       |     |      |
|                  | 159     | 5795       | 36.34 |                        |                      | PASS        |        |       |     |      |
| IEEE 802.11ax_20 | 144     | SU         | 0     |                        |                      | 5720        | 18.99  | 0.5   |     | PASS |
|                  | 149     |            |       |                        |                      | 5745        | 19.00  |       |     | PASS |
|                  | 157     |            |       |                        |                      | 5785        | 19.03  |       |     | PASS |
|                  | 165     |            |       |                        |                      | 5825        | 19.01  |       |     | PASS |
| IEEE 802.11ax_40 | 142     |            |       |                        |                      | 5710        | 38.02  |       |     | PASS |
|                  | 151     |            |       |                        |                      | 5755        | 38.03  |       |     | PASS |
|                  | 159     |            |       |                        |                      | 5795        | 37.97  |       |     | PASS |

| Mode             | Channel | RU & Index | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |       |      |
|------------------|---------|------------|------|------------------------|----------------------|-------------|--------|-------|------|
| IEEE 802.11a     | 144     | N/A        | 0    | 5740                   | 3.284                | 0.5         | PASS   |       |      |
| IEEE 802.11n_20  |         |            |      | 5740                   | 3.907                |             | PASS   |       |      |
| IEEE 802.11n_40  |         |            |      | 142                    | 5755                 |             | 3.196  | PASS  |      |
| IEEE 802.11ac_20 |         |            |      | 144                    | 5740                 |             | 3.879  | PASS  |      |
| IEEE 802.11ac_40 |         |            |      | 142                    | 5755                 |             | 3.243  | PASS  |      |
| IEEE 802.11ax_20 |         |            |      | 144                    | SU                   |             | 5740   | 4.572 | PASS |
| IEEE 802.11ax_40 |         |            |      | 142                    |                      |             | 5755   | 4.103 | PASS |

## Test Graphs

