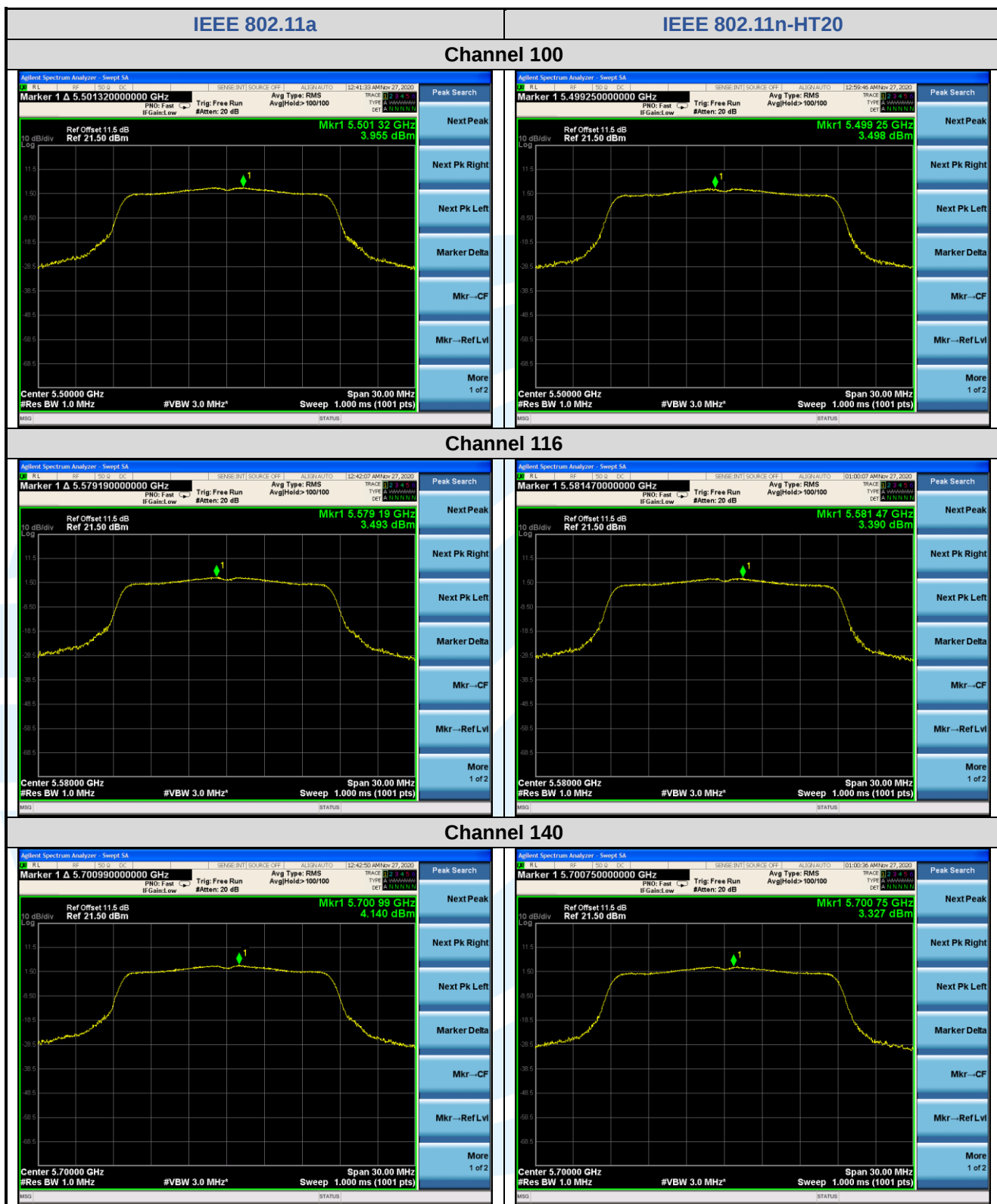
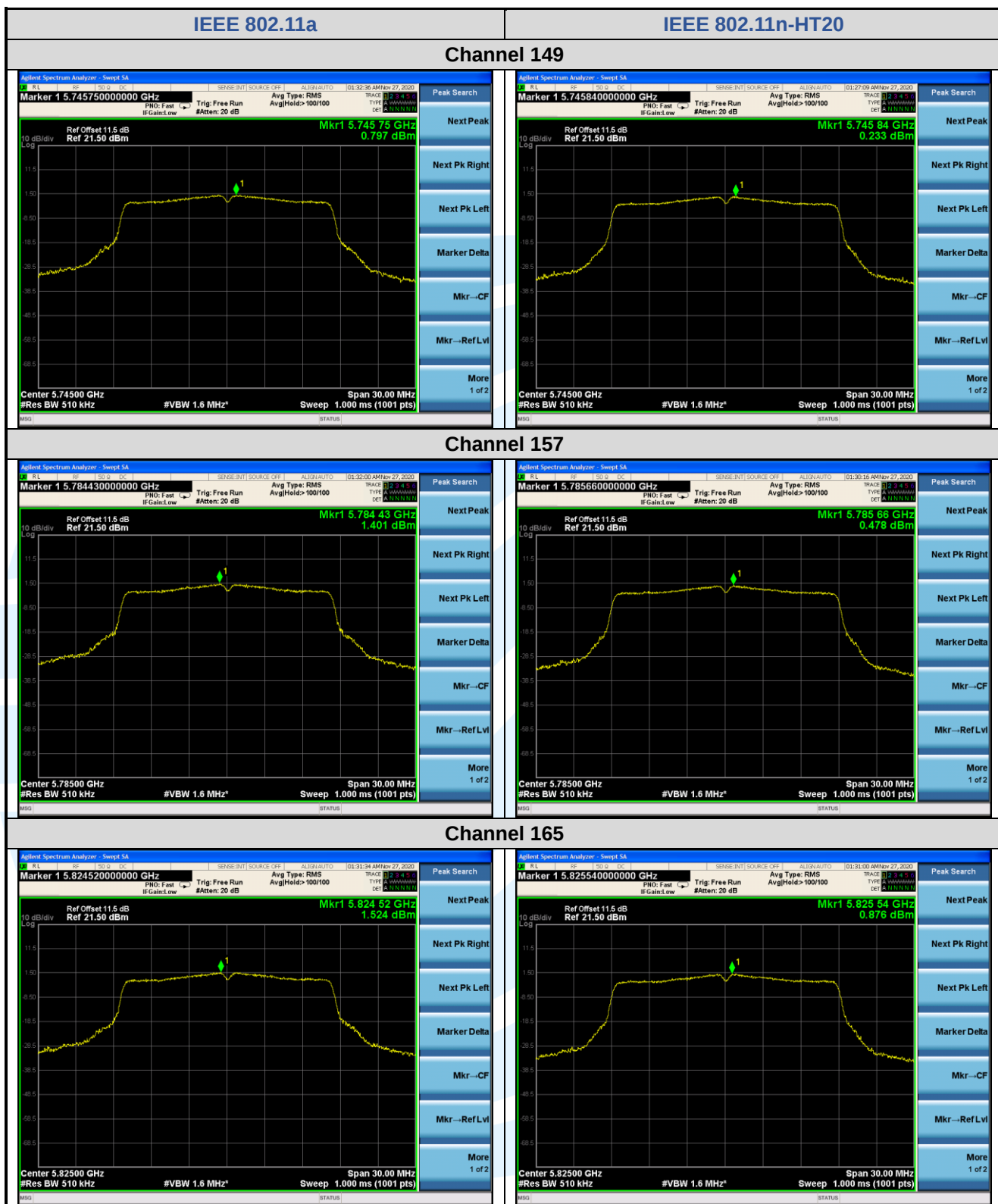
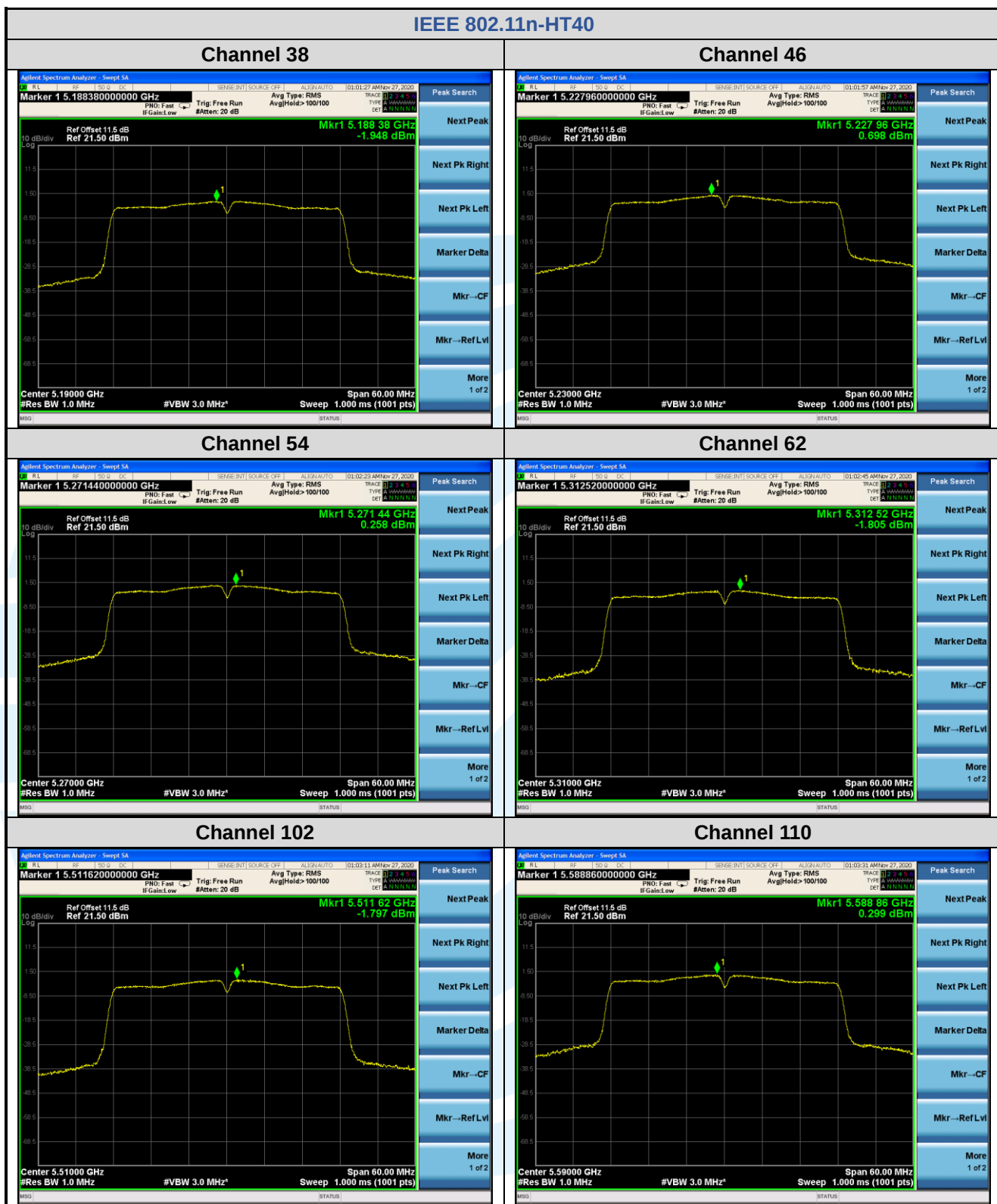
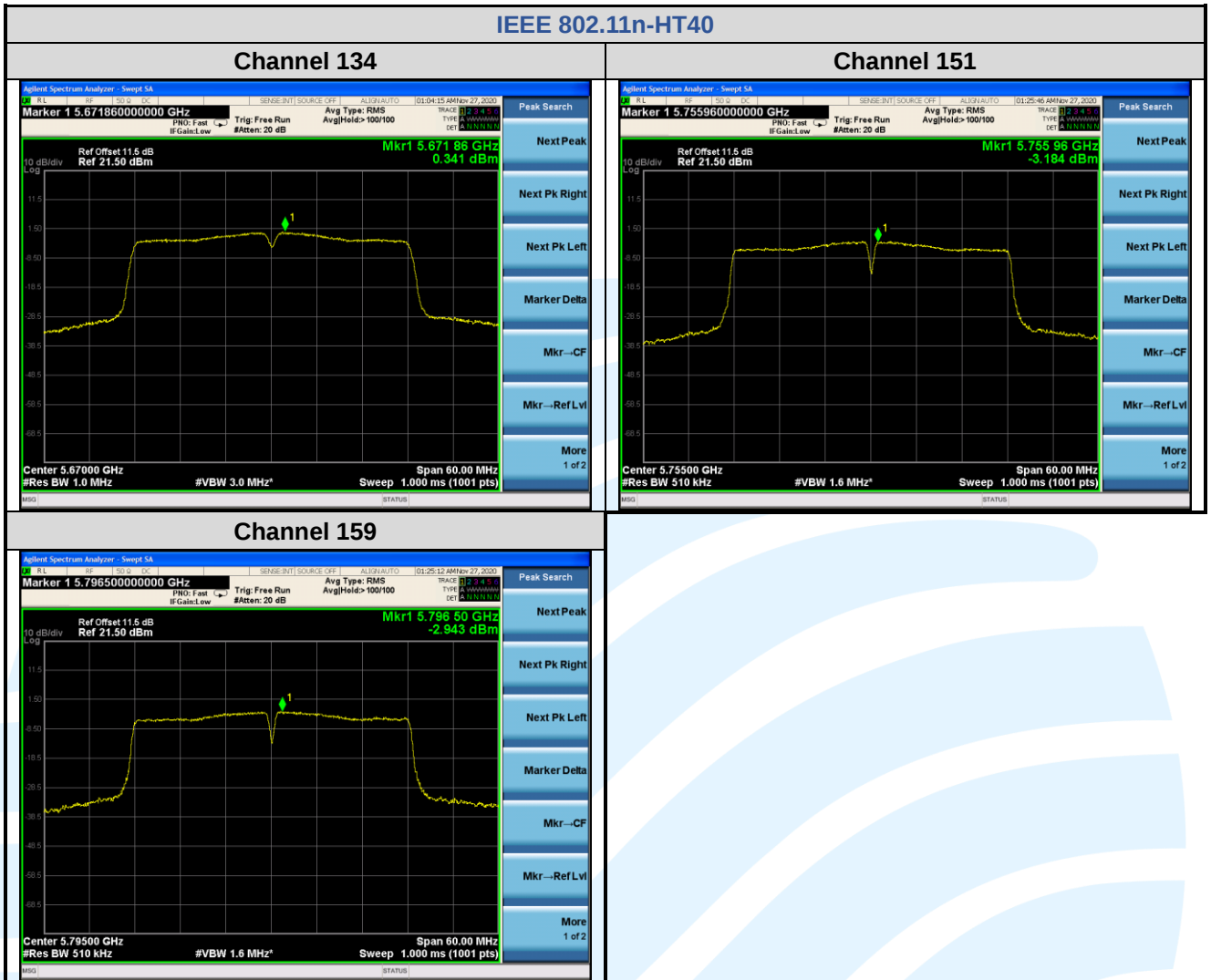
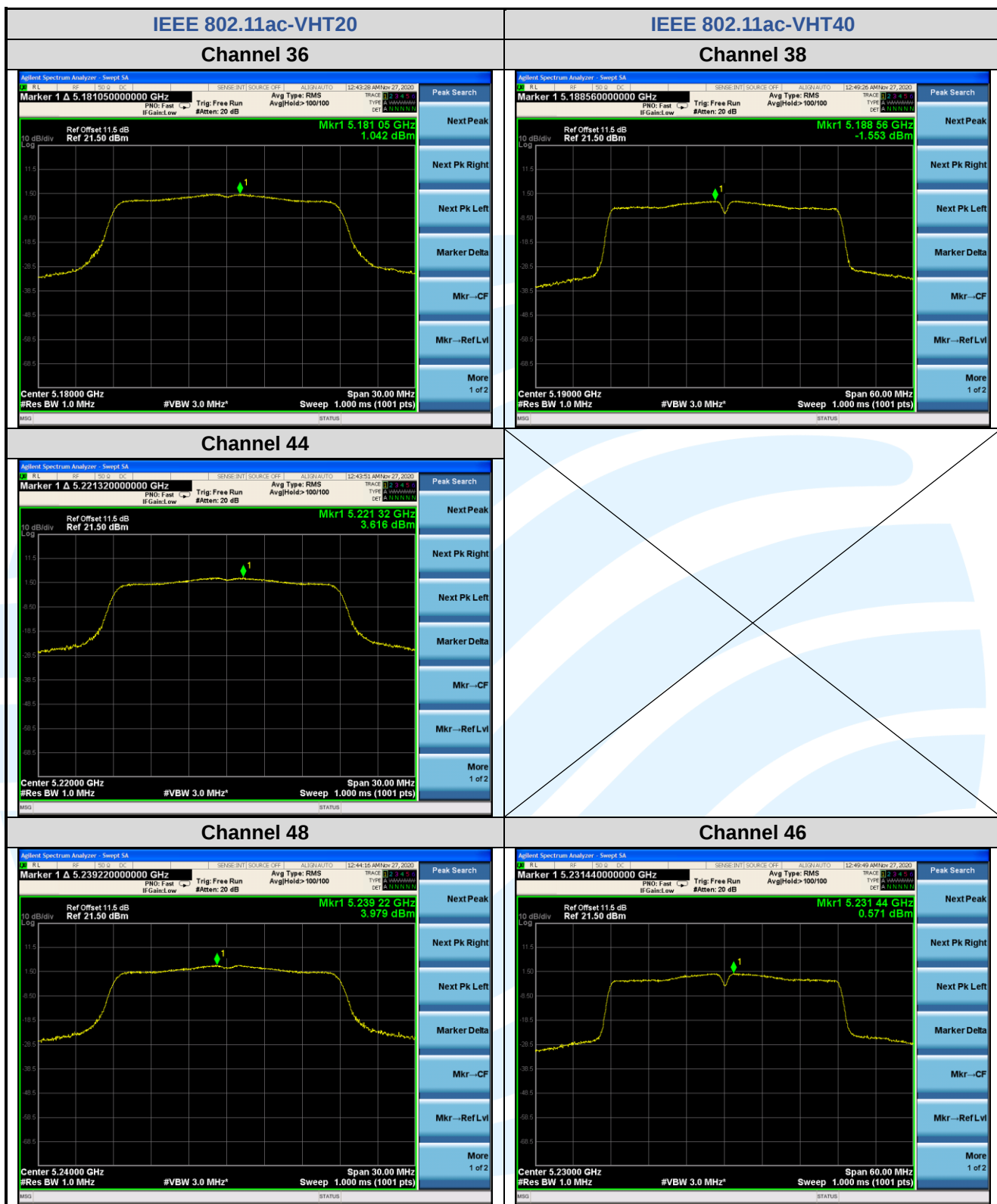


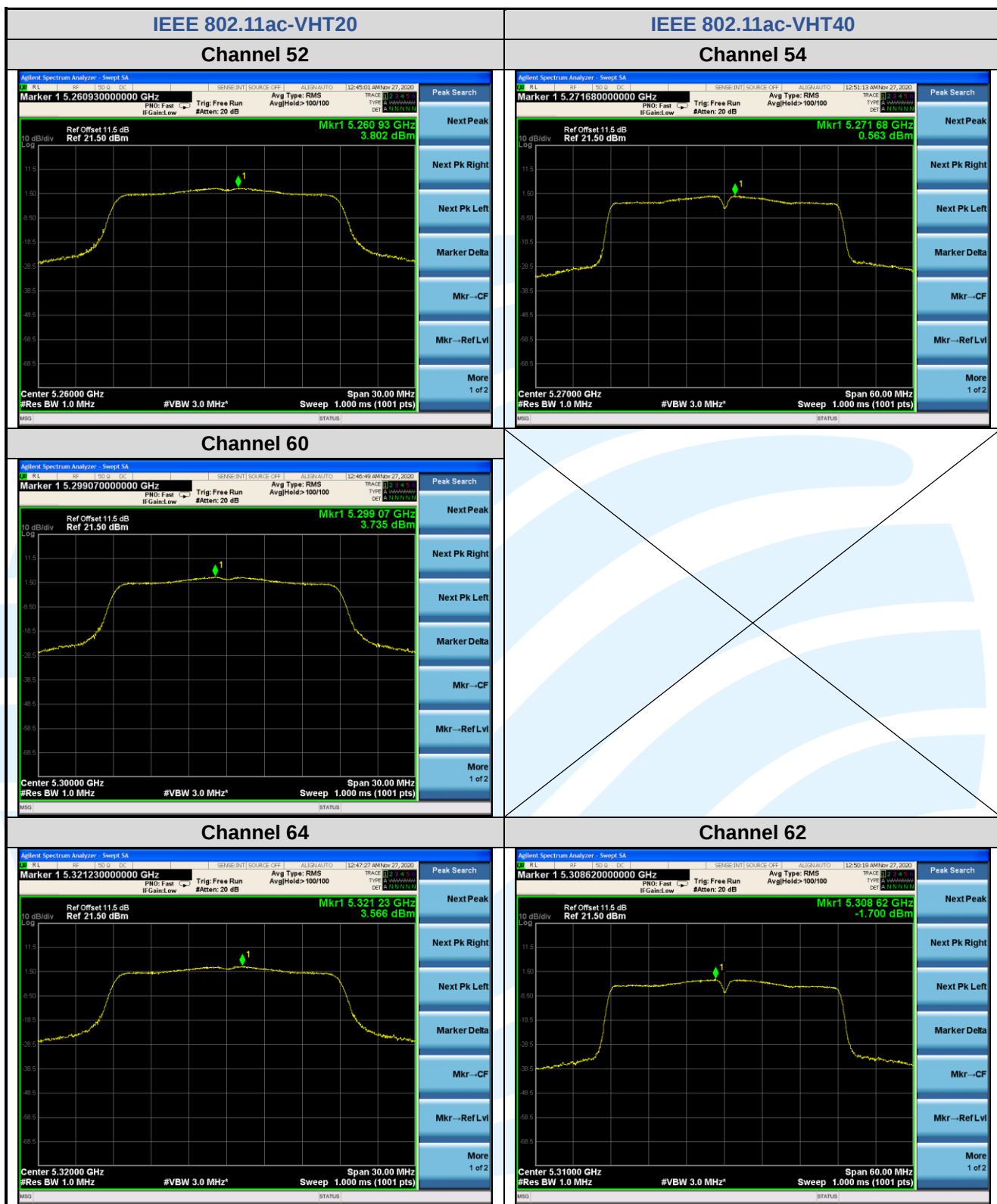


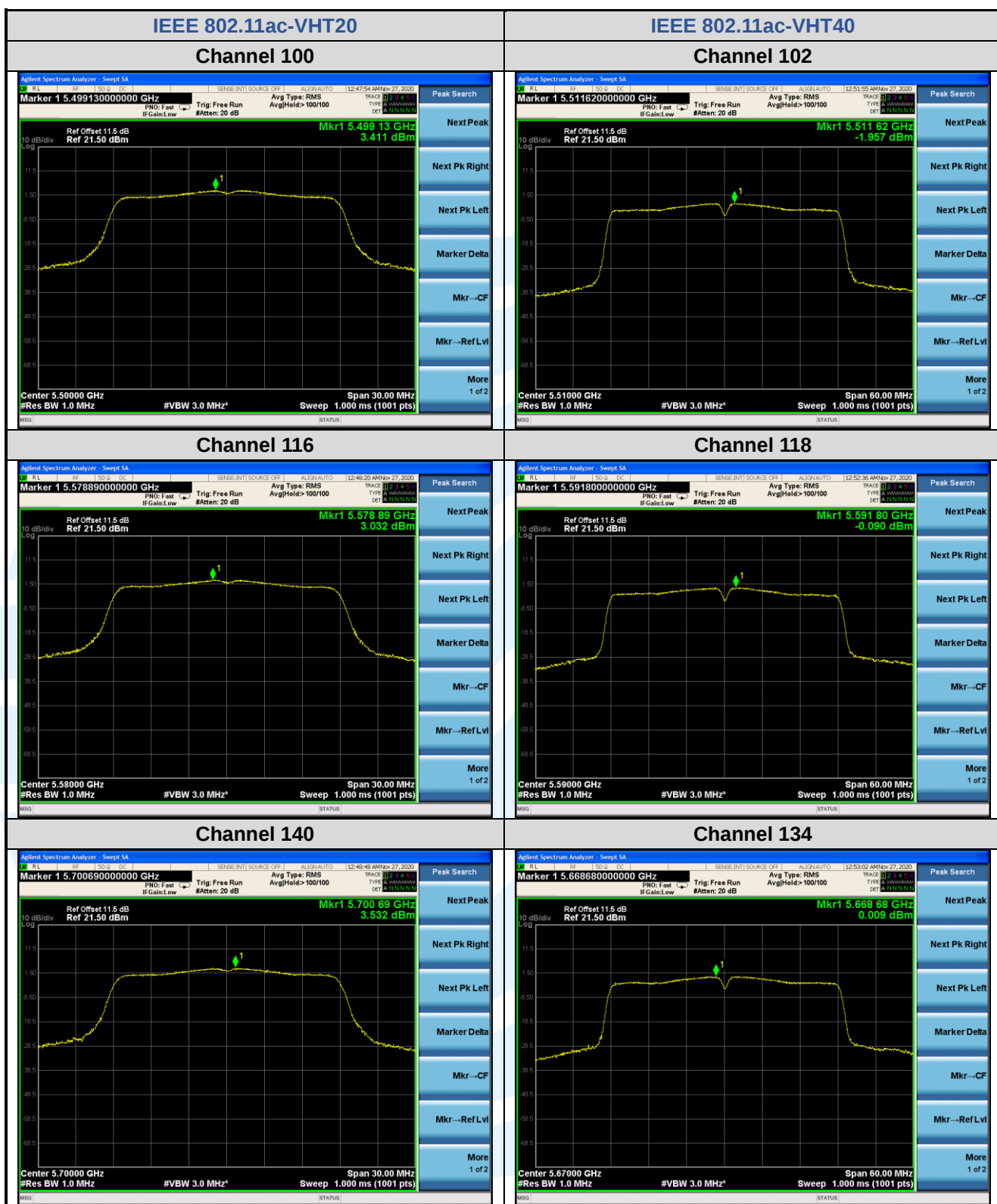


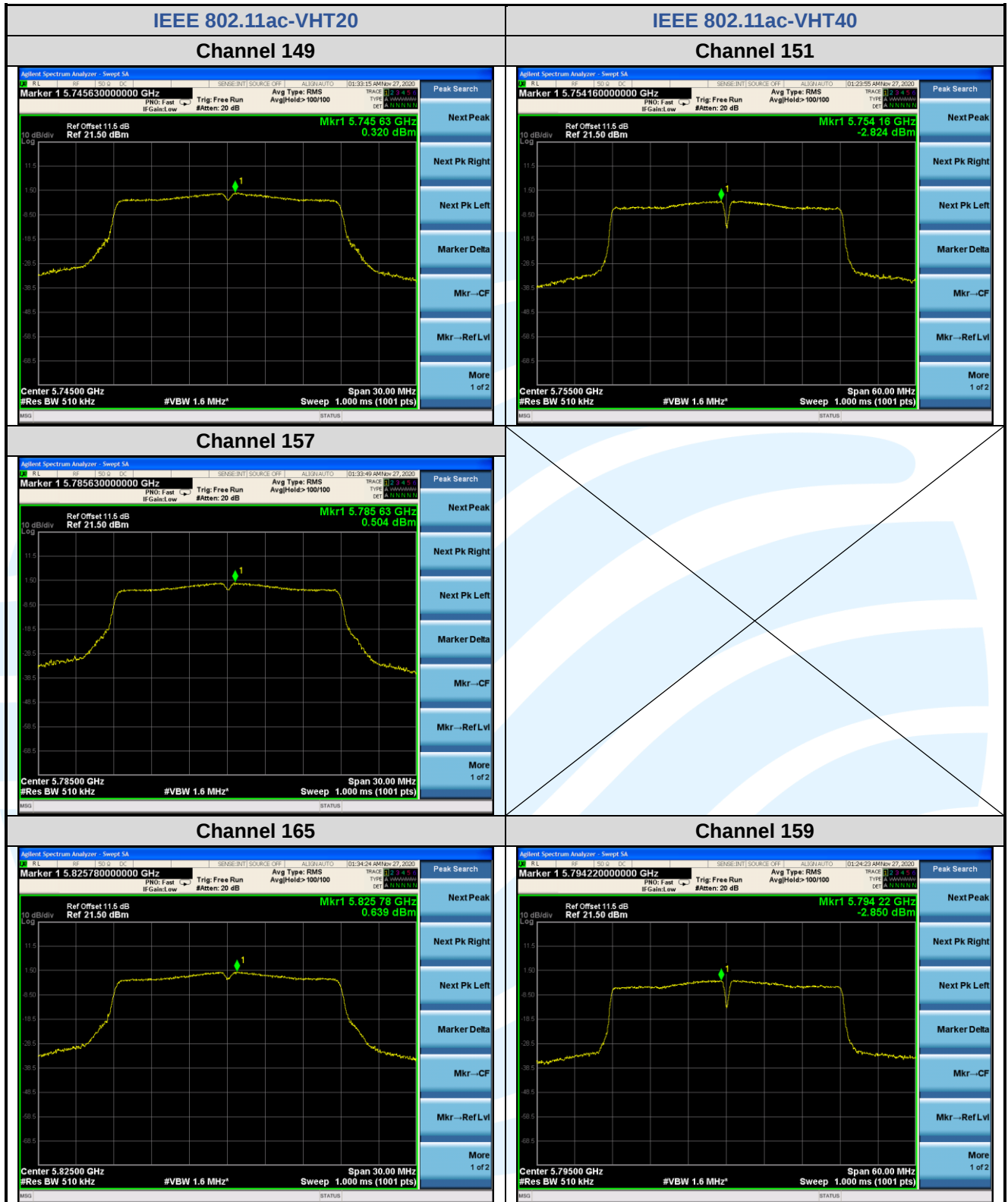


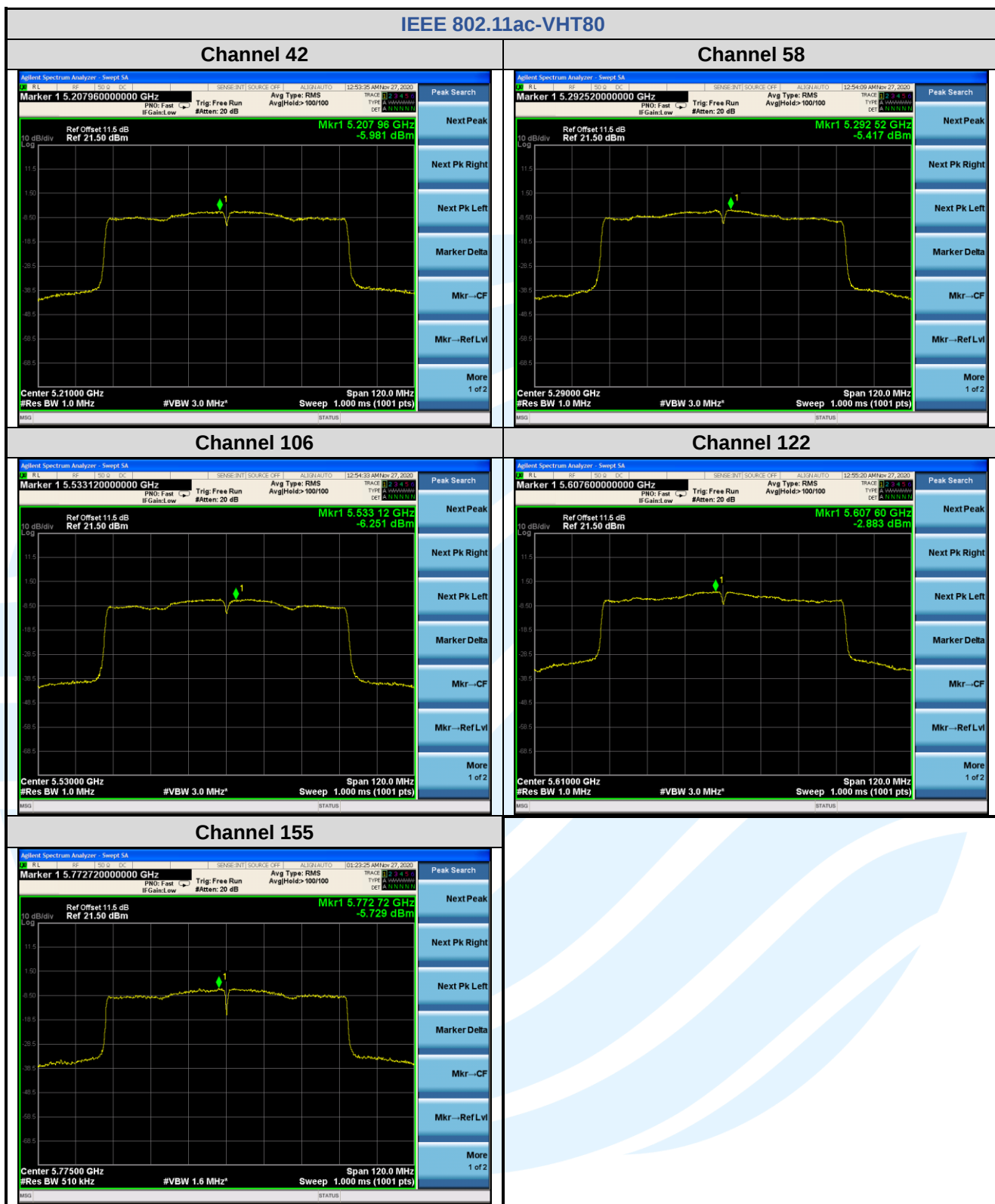












## 5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

**Test Requirement:** FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)  
FCC 47 CFR Part 15 Subpart C Section 15.209/205

**Test Method:** KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

**Receiver Setup:**

| Frequency           | RBW         |
|---------------------|-------------|
| 0.009 MHz-0.150 MHz | 200/300 kHz |
| 0.150 MHz -30 MHz   | 9/10 kHz    |
| 30 MHz-1 GHz        | 100/120 kHz |
| Above 1 GHz         | 1 MHz       |

**Limits:**

### 1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

| Frequency           | Field strength (microvolt/meter) | Limit (dBμV/m ) | Remark     | Measurement distance (m) |
|---------------------|----------------------------------|-----------------|------------|--------------------------|
| 0.009 MHz-0.490 MHz | 2400/F(kHz)                      | --              | --         | 300                      |
| 0.490 MHz-1.705 MHz | 24000/F(kHz)                     | --              | --         | 30                       |
| 1.705 MHz-30 MHz    | 30                               | --              | --         | 30                       |
| 30 MHz-88 MHz       | 100                              | 40.0            | Quasi-peak | 3                        |
| 88 MHz-216 MHz      | 150                              | 43.5            | Quasi-peak | 3                        |
| 216 MHz-960 MHz     | 200                              | 46.0            | Quasi-peak | 3                        |
| 960MHz-1GHz         | 500                              | 54.0            | Quasi-peak | 3                        |
| Above 1 GHz         | 500                              | 54.0            | Average    | 3                        |

**Remark:**

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

### 2. Limits of Unwanted Emission Out of the Restricted Bands

| Applicable To                                             | Limit                                                                                                                          |                                  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 789033 D02 General U-NII Test Procedures New Rules v01r04 | Field Strength at 3 m                                                                                                          |                                  |
|                                                           | PK: 74 (dBμV/m)                                                                                                                | AV: 54 (dBμV/m)                  |
| Applicable To                                             | EIRP Limit                                                                                                                     | Equivalent Field Strength at 3 m |
| FCC Part 15.407 (b)(1)                                    | PK: -27 (dBm/MHz)                                                                                                              | PK: 74 (dBμV/m)                  |
| FCC Part 15.407 (b)(2)                                    | PK: -27 (dBm/MHz)                                                                                                              | PK: 74 (dBμV/m)                  |
| FCC Part 15.407 (b)(3)                                    | PK: -27 (dBm/MHz)                                                                                                              | PK: 68.2 (dBμV/m)                |
| FCC Part 15.407 (b)(4)                                    | 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;      | PK: 68.2 (dBμV/m)                |
|                                                           | 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; |                                  |
|                                                           | 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; |                                  |
|                                                           | -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.                                                     |                                  |

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**Test Setup:** Refer to section 4.5.1 for details.

**Test Procedures:**

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Remark:**

- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle  $\geq 98 \%$ ) or  $\geq 1/T$  (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

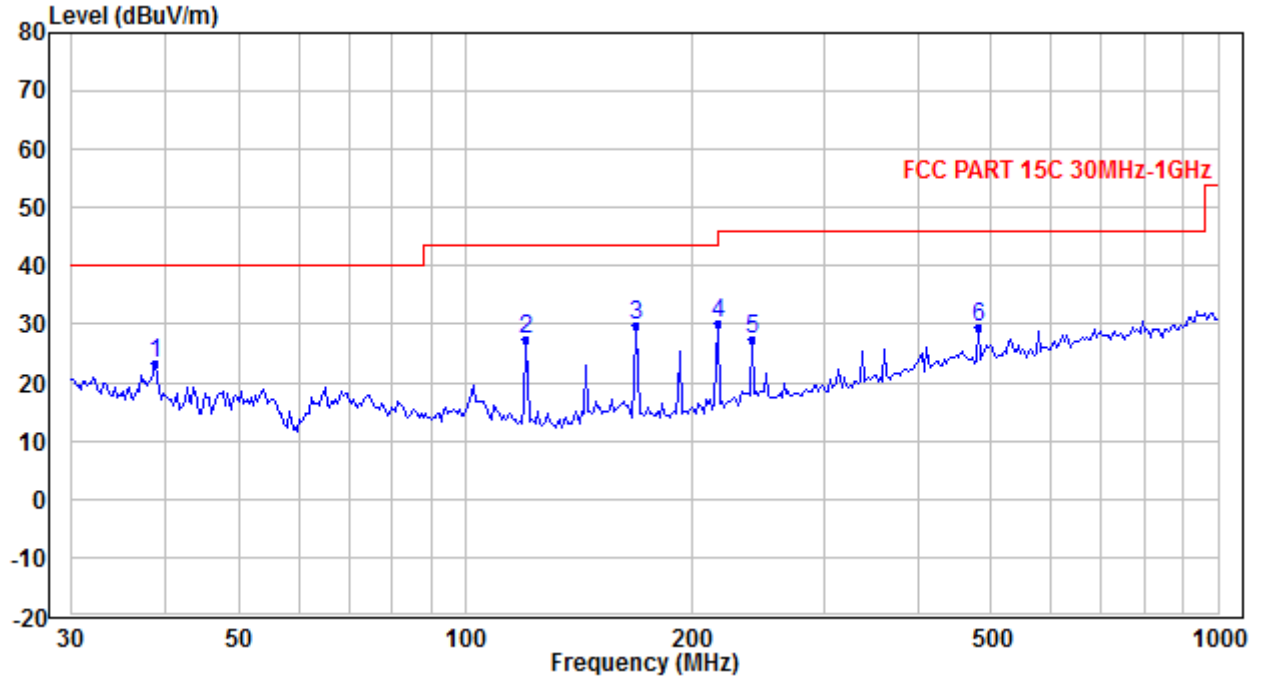
**Equipment Used:** Refer to section 3 for details.

**Test Result:** Pass

**The measurement data as follows:**

**Radiated Emission Test Data (9 kHz ~ 30 MHz):**

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

**Radiated Emission Test Data (30 MHz ~ 1 GHz):****Worst-Case Configuration****Horizontal**

| No. | Frequency (MHz) | Reading (dBμV) | Correction factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|----------|
| 1   | 38.636          | 32.84          | -9.68                    | 23.16           | 40.00          | -16.84      | QP       |
| 2   | 120.612         | 39.94          | -12.59                   | 27.35           | 43.50          | -16.15      | QP       |
| 3   | 168.997         | 40.54          | -10.84                   | 29.70           | 43.50          | -13.80      | QP       |
| 4   | 216.120         | 39.25          | -9.06                    | 30.19           | 46.00          | -15.81      | QP       |
| 5   | 240.144         | 35.03          | -7.74                    | 27.29           | 46.00          | -18.71      | QP       |
| 6   | 481.511         | 31.08          | -1.66                    | 29.42           | 46.00          | -16.58      | QP       |

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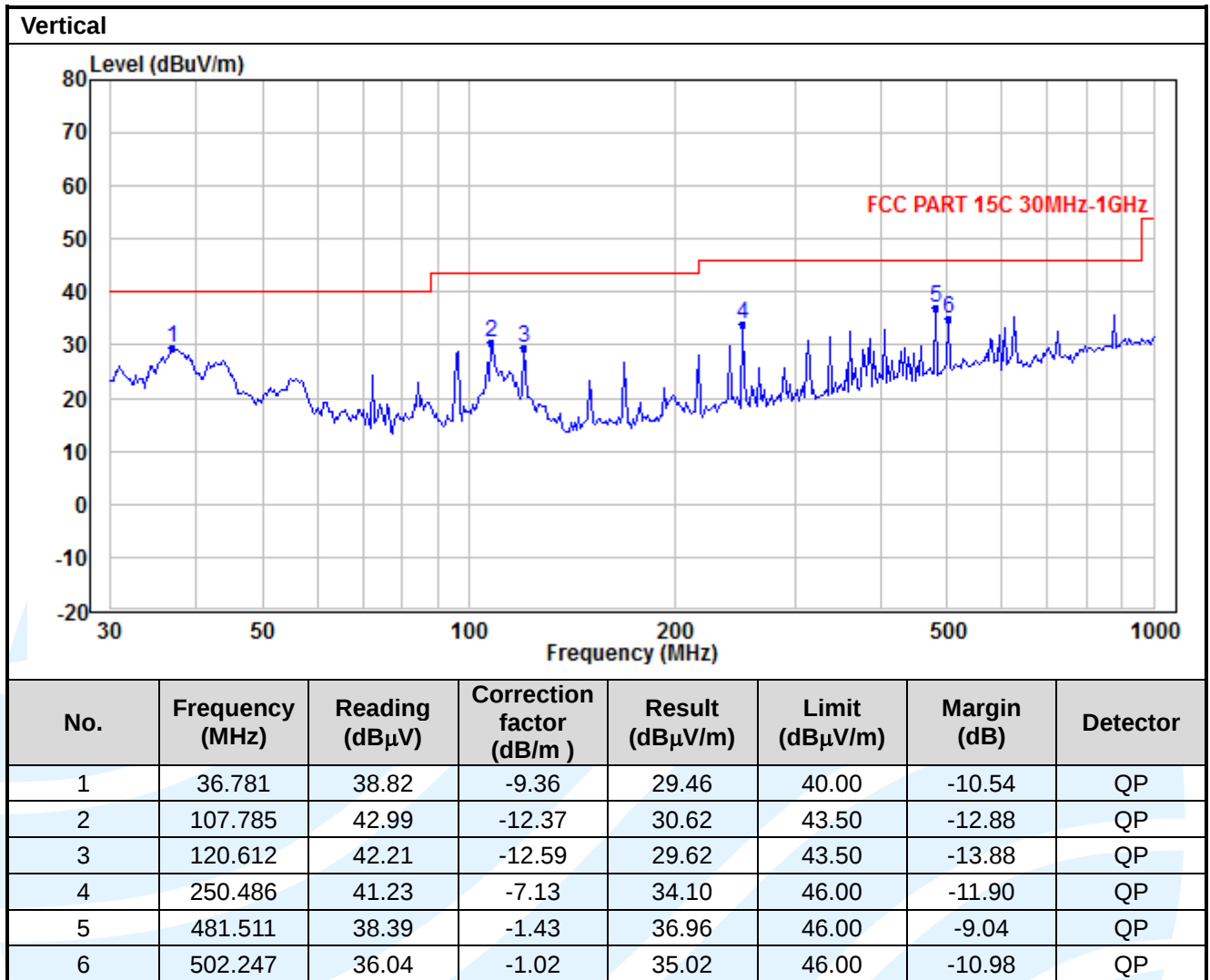
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**Radiated Emission Test Data (1GHz ~ 40GHz):**
**IEEE 802.11a\_Channel 36**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10360.00        | 40.75            | 5.58                   | 46.33           | 74.00          | -27.67      | Peak     | Horizontal      |
| 2   | 10360.00        | 28.87            | 5.58                   | 34.45           | 54.00          | -19.55      | Average  | Horizontal      |
| 3   | 15540.00        | 38.57            | 10.97                  | 49.54           | 74.00          | -24.46      | Peak     | Horizontal      |
| 4   | 15540.00        | 27.14            | 10.97                  | 38.11           | 54.00          | -15.89      | Average  | Horizontal      |
| 5   | 10360.00        | 41.49            | 5.74                   | 47.23           | 74.00          | -26.77      | Peak     | Vertical        |
| 6   | 10360.00        | 28.96            | 5.74                   | 34.70           | 54.00          | -19.30      | Average  | Vertical        |
| 7   | 15540.00        | 40.96            | 11.07                  | 52.03           | 74.00          | -21.97      | Peak     | Vertical        |
| 8   | 15540.00        | 27.01            | 11.07                  | 38.08           | 54.00          | -15.92      | Average  | Vertical        |

**IEEE 802.11a\_Channel 44**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10440.00        | 43.54            | 5.68                   | 49.22           | 74.00          | -24.78      | Peak     | Horizontal      |
| 2   | 10440.00        | 31.36            | 5.68                   | 37.04           | 54.00          | -16.96      | Average  | Horizontal      |
| 3   | 15660.00        | 39.32            | 11.10                  | 50.42           | 74.00          | -23.58      | Peak     | Horizontal      |
| 4   | 15660.00        | 28.03            | 11.10                  | 39.13           | 54.00          | -14.87      | Average  | Horizontal      |
| 5   | 10440.00        | 43.65            | 5.80                   | 49.45           | 74.00          | -24.55      | Peak     | Vertical        |
| 6   | 10440.00        | 31.56            | 5.80                   | 37.36           | 54.00          | -16.64      | Average  | Vertical        |
| 7   | 15660.00        | 41.94            | 11.20                  | 53.14           | 74.00          | -20.86      | Peak     | Vertical        |
| 8   | 15660.00        | 27.74            | 11.20                  | 39.28           | 54.00          | -14.72      | Average  | Vertical        |

**IEEE 802.11a\_Channel 48**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10480.00        | 42.92            | 5.72                   | 48.64           | 74.00          | -25.36      | Peak     | Horizontal      |
| 2   | 10480.00        | 30.82            | 5.72                   | 36.54           | 54.00          | -17.46      | Average  | Horizontal      |
| 3   | 15720.00        | 38.88            | 11.18                  | 50.06           | 74.00          | -23.94      | Peak     | Horizontal      |
| 4   | 15720.00        | 27.89            | 11.18                  | 39.07           | 54.00          | -14.93      | Average  | Horizontal      |
| 5   | 10480.00        | 42.08            | 5.83                   | 47.91           | 74.00          | -26.09      | Peak     | Vertical        |
| 6   | 10480.00        | 31.34            | 5.83                   | 37.17           | 54.00          | -16.83      | Average  | Vertical        |
| 7   | 15720.00        | 39.57            | 11.28                  | 50.85           | 74.00          | -23.15      | Peak     | Vertical        |
| 8   | 15720.00        | 27.77            | 11.28                  | 39.05           | 54.00          | -14.95      | Average  | Vertical        |

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**IEEE 802.11a\_Channel 52**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10520.00        | 43.18            | 5.72                   | 48.90           | 74.00          | -25.10      | Peak     | Horizontal      |
| 2   | 10520.00        | 29.22            | 5.72                   | 34.94           | 54.00          | -19.06      | Average  | Horizontal      |
| 3   | 15780.00        | 38.55            | 11.26                  | 49.81           | 74.00          | -24.19      | Peak     | Horizontal      |
| 4   | 15780.00        | 26.61            | 11.26                  | 37.87           | 54.00          | -16.13      | Average  | Horizontal      |
| 5   | 10520.00        | 41.25            | 5.83                   | 47.08           | 74.00          | -26.92      | Peak     | Vertical        |
| 6   | 10520.00        | 29.11            | 5.83                   | 34.94           | 54.00          | -19.06      | Average  | Vertical        |
| 7   | 15780.00        | 38.45            | 11.36                  | 49.81           | 74.00          | -24.19      | Peak     | Vertical        |
| 8   | 15780.00        | 26.68            | 11.36                  | 38.04           | 54.00          | -15.96      | Average  | Vertical        |

**IEEE 802.11a\_Channel 60**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10640.00        | 40.97            | 5.66                   | 46.63           | 74.00          | -27.37      | Peak     | Horizontal      |
| 2   | 10640.00        | 29.68            | 5.66                   | 34.68           | 54.00          | -19.32      | Average  | Horizontal      |
| 3   | 15960.00        | 38.37            | 11.41                  | 49.78           | 74.00          | -24.22      | Peak     | Horizontal      |
| 4   | 15960.00        | 26.60            | 11.41                  | 38.30           | 54.00          | -15.70      | Average  | Horizontal      |
| 5   | 10640.00        | 42.01            | 5.78                   | 47.79           | 74.00          | -26.21      | Peak     | Vertical        |
| 6   | 10640.00        | 29.08            | 5.78                   | 34.86           | 54.00          | -19.14      | Average  | Vertical        |
| 7   | 15960.00        | 41.39            | 11.51                  | 52.90           | 74.00          | -21.10      | Peak     | Vertical        |
| 8   | 15960.00        | 26.82            | 11.51                  | 38.33           | 54.00          | -15.67      | Average  | Vertical        |

**IEEE 802.11a\_Channel 64**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10640.00        | 40.77            | 5.63                   | 46.40           | 74.00          | -27.60      | Peak     | Horizontal      |
| 2   | 10640.00        | 29.68            | 5.63                   | 35.27           | 54.00          | -18.73      | Average  | Horizontal      |
| 3   | 15960.00        | 39.41            | 11.47                  | 50.88           | 74.00          | -23.12      | Peak     | Horizontal      |
| 4   | 15960.00        | 26.60            | 11.47                  | 39.69           | 54.00          | -14.31      | Average  | Horizontal      |
| 5   | 10640.00        | 43.64            | 5.76                   | 49.40           | 74.00          | -24.60      | Peak     | Vertical        |
| 6   | 10640.00        | 28.89            | 5.76                   | 34.65           | 54.00          | -19.35      | Average  | Vertical        |
| 7   | 15960.00        | 38.95            | 11.57                  | 50.52           | 74.00          | -23.48      | Peak     | Vertical        |
| 8   | 15960.00        | 26.83            | 11.57                  | 38.40           | 54.00          | -15.60      | Average  | Vertical        |

**IEEE 802.11a\_Channel 100**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 1100.00         | 41.76            | 5.32                   | 47.08           | 74.00          | -26.92      | Peak     | Horizontal      |
| 2   | 1100.00         | 30.92            | 5.32                   | 36.24           | 54.00          | -17.76      | Average  | Horizontal      |
| 3   | 1650.00         | 40.33            | 12.55                  | 52.88           | 74.00          | -21.12      | Peak     | Horizontal      |
| 4   | 1650.00         | 28.41            | 12.55                  | 40.96           | 54.00          | -13.04      | Average  | Horizontal      |
| 5   | 1100.00         | 42.38            | 5.52                   | 47.90           | 74.00          | -26.10      | Peak     | Vertical        |
| 6   | 1100.00         | 30.88            | 5.52                   | 36.40           | 54.00          | -17.60      | Average  | Vertical        |
| 7   | 1650.00         | 39.97            | 12.85                  | 52.82           | 74.00          | -21.18      | Peak     | Vertical        |
| 8   | 1650.00         | 28.36            | 12.85                  | 41.21           | 54.00          | -12.79      | Average  | Vertical        |

**IEEE 802.11a\_Channel 116**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11160.00        | 42.19            | 5.57                   | 47.76           | 74.00          | -26.24      | Peak     | Horizontal      |
| 2   | 11160.00        | 31.54            | 5.57                   | 37.11           | 54.00          | -16.89      | Average  | Horizontal      |
| 3   | 16740.00        | 40.11            | 12.37                  | 52.48           | 74.00          | -21.52      | Peak     | Horizontal      |
| 4   | 16740.00        | 28.00            | 12.37                  | 40.37           | 54.00          | -13.63      | Average  | Horizontal      |
| 5   | 11160.00        | 43.41            | 5.74                   | 49.15           | 74.00          | -24.85      | Peak     | Vertical        |
| 6   | 11160.00        | 29.49            | 5.74                   | 35.23           | 54.00          | -18.77      | Average  | Vertical        |
| 7   | 16740.00        | 40.02            | 12.63                  | 52.65           | 74.00          | -21.35      | Peak     | Vertical        |
| 8   | 16740.00        | 28.00            | 12.63                  | 40.63           | 54.00          | -13.37      | Average  | Vertical        |

**IEEE 802.11a\_Channel 140**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11400.00        | 43.15            | 5.93                   | 49.08           | 74.00          | -24.92      | Peak     | Horizontal      |
| 2   | 11400.00        | 31.31            | 5.93                   | 37.24           | 54.00          | -16.76      | Average  | Horizontal      |
| 3   | 17100.00        | 38.88            | 12.50                  | 51.38           | 74.00          | -22.62      | Peak     | Horizontal      |
| 4   | 17100.00        | 27.13            | 12.50                  | 39.63           | 54.00          | -14.37      | Average  | Horizontal      |
| 5   | 11400.00        | 43.80            | 6.05                   | 49.85           | 74.00          | -24.15      | Peak     | Vertical        |
| 6   | 11400.00        | 31.27            | 6.05                   | 37.32           | 54.00          | -16.68      | Average  | Vertical        |
| 7   | 17100.00        | 39.06            | 12.66                  | 51.72           | 74.00          | -22.28      | Peak     | Vertical        |
| 8   | 17100.00        | 27.19            | 12.66                  | 39.85           | 54.00          | -14.15      | Average  | Vertical        |

**IEEE 802.11a\_Channel 149**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11490.00        | 42.43            | 6.07                   | 48.50           | 74.00          | -25.50      | Peak     | Horizontal      |
| 2   | 11490.00        | 30.75            | 6.07                   | 36.82           | 54.00          | -17.18      | Average  | Horizontal      |
| 3   | 17235.00        | 38.88            | 12.94                  | 51.82           | 74.00          | -22.18      | Peak     | Horizontal      |
| 4   | 17235.00        | 27.52            | 12.94                  | 40.46           | 54.00          | -13.54      | Average  | Horizontal      |
| 5   | 11490.00        | 42.13            | 6.17                   | 48.30           | 74.00          | -25.70      | Peak     | Vertical        |
| 6   | 11490.00        | 30.63            | 6.17                   | 36.80           | 54.00          | -17.20      | Average  | Vertical        |
| 7   | 17235.00        | 39.07            | 13.04                  | 52.11           | 74.00          | -21.89      | Peak     | Vertical        |
| 8   | 17235.00        | 27.44            | 13.04                  | 40.48           | 54.00          | -13.52      | Average  | Vertical        |

**IEEE 802.11a\_Channel 157**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11570.00        | 42.57            | 6.29                   | 48.86           | 74.00          | -25.14      | Peak     | Horizontal      |
| 2   | 11570.00        | 29.65            | 6.29                   | 35.94           | 54.00          | -18.06      | Average  | Horizontal      |
| 3   | 17355.00        | 40.06            | 13.32                  | 53.38           | 74.00          | -20.62      | Peak     | Horizontal      |
| 4   | 17355.00        | 28.29            | 13.32                  | 41.61           | 54.00          | -12.39      | Average  | Horizontal      |
| 5   | 11570.00        | 42.45            | 6.42                   | 48.87           | 74.00          | -25.13      | Peak     | Vertical        |
| 6   | 11570.00        | 29.65            | 6.42                   | 36.07           | 54.00          | -17.93      | Average  | Vertical        |
| 7   | 17355.00        | 39.93            | 13.38                  | 53.31           | 74.00          | -20.69      | Peak     | Vertical        |
| 8   | 17355.00        | 28.22            | 13.38                  | 41.60           | 54.00          | -12.40      | Average  | Vertical        |

**IEEE 802.11a\_Channel 165**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11650.00        | 41.49            | 6.52                   | 48.01           | 74.00          | -25.99      | Peak     | Horizontal      |
| 2   | 11650.00        | 30.70            | 6.52                   | 37.22           | 54.00          | -16.78      | Average  | Horizontal      |
| 3   | 17475.00        | 39.30            | 13.71                  | 53.01           | 74.00          | -20.99      | Peak     | Horizontal      |
| 4   | 17475.00        | 27.76            | 13.71                  | 41.47           | 54.00          | -12.53      | Average  | Horizontal      |
| 5   | 11650.00        | 42.18            | 6.68                   | 48.86           | 74.00          | -25.14      | Peak     | Vertical        |
| 6   | 11650.00        | 30.74            | 6.68                   | 37.42           | 54.00          | -16.58      | Average  | Vertical        |
| 7   | 17475.00        | 39.12            | 13.73                  | 52.85           | 74.00          | -21.15      | Peak     | Vertical        |
| 8   | 17475.00        | 27.69            | 13.73                  | 41.42           | 54.00          | -12.58      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 36**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10360.00        | 41.56            | 5.58                   | 47.14           | 74.00          | -26.86      | Peak     | Horizontal      |
| 2   | 10360.00        | 30.44            | 5.58                   | 36.02           | 54.00          | -17.98      | Average  | Horizontal      |
| 3   | 15540.00        | 39.07            | 10.97                  | 50.04           | 74.00          | -23.96      | Peak     | Horizontal      |
| 4   | 15540.00        | 28.38            | 10.97                  | 39.35           | 54.00          | -14.65      | Average  | Horizontal      |
| 5   | 10360.00        | 42.32            | 5.74                   | 48.06           | 74.00          | -25.94      | Peak     | Vertical        |
| 6   | 10360.00        | 30.38            | 5.74                   | 36.12           | 54.00          | -17.88      | Average  | Vertical        |
| 7   | 15540.00        | 39.94            | 11.07                  | 51.01           | 74.00          | -22.99      | Peak     | Vertical        |
| 8   | 15540.00        | 28.44            | 11.07                  | 39.51           | 54.00          | -14.49      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 44**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10440.00        | 42.04            | 5.68                   | 47.72           | 74.00          | -26.28      | Peak     | Horizontal      |
| 2   | 10440.00        | 30.23            | 5.68                   | 35.91           | 54.00          | -18.09      | Average  | Horizontal      |
| 3   | 15660.00        | 39.43            | 11.10                  | 50.53           | 74.00          | -23.47      | Peak     | Horizontal      |
| 4   | 15660.00        | 28.31            | 11.10                  | 39.41           | 54.00          | -14.59      | Average  | Horizontal      |
| 5   | 10440.00        | 43.64            | 5.80                   | 49.44           | 74.00          | -24.56      | Peak     | Vertical        |
| 6   | 10440.00        | 30.24            | 5.80                   | 36.04           | 54.00          | -17.96      | Average  | Vertical        |
| 7   | 15660.00        | 39.61            | 11.20                  | 50.81           | 74.00          | -23.19      | Peak     | Vertical        |
| 8   | 15660.00        | 28.20            | 11.20                  | 39.40           | 54.00          | -14.60      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 48**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10480.00        | 42.30            | 5.72                   | 48.02           | 74.00          | -25.98      | Peak     | Horizontal      |
| 2   | 10480.00        | 29.66            | 5.72                   | 35.38           | 54.00          | -18.62      | Average  | Horizontal      |
| 3   | 15720.00        | 38.97            | 11.18                  | 50.15           | 74.00          | -23.85      | Peak     | Horizontal      |
| 4   | 15720.00        | 28.06            | 11.18                  | 39.24           | 54.00          | -14.76      | Average  | Horizontal      |
| 5   | 10480.00        | 41.35            | 5.83                   | 47.18           | 74.00          | -26.82      | Peak     | Vertical        |
| 6   | 10480.00        | 29.60            | 5.83                   | 35.43           | 54.00          | -18.57      | Average  | Vertical        |
| 7   | 15720.00        | 40.04            | 11.28                  | 51.32           | 74.00          | -22.68      | Peak     | Vertical        |
| 8   | 15720.00        | 27.94            | 11.28                  | 39.22           | 54.00          | -14.78      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 52**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10520.00        | 44.17            | 5.72                   | 49.89           | 74.00          | -24.11      | Peak     | Horizontal      |
| 2   | 10520.00        | 29.85            | 5.72                   | 35.57           | 54.00          | -18.43      | Average  | Horizontal      |
| 3   | 15780.00        | 40.52            | 11.26                  | 51.78           | 74.00          | -22.22      | Peak     | Horizontal      |
| 4   | 15780.00        | 28.15            | 11.26                  | 39.41           | 54.00          | -14.59      | Average  | Horizontal      |
| 5   | 10520.00        | 43.73            | 5.83                   | 49.56           | 74.00          | -24.44      | Peak     | Vertical        |
| 6   | 10520.00        | 29.65            | 5.83                   | 35.48           | 54.00          | -18.52      | Average  | Vertical        |
| 7   | 15780.00        | 39.56            | 11.36                  | 50.92           | 74.00          | -23.08      | Peak     | Vertical        |
| 8   | 15780.00        | 28.09            | 11.36                  | 39.45           | 54.00          | -14.55      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 60**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10600.00        | 43.58            | 5.66                   | 49.24           | 74.00          | -24.76      | Peak     | Horizontal      |
| 2   | 10600.00        | 29.76            | 5.66                   | 35.42           | 54.00          | -18.58      | Average  | Horizontal      |
| 3   | 15900.00        | 40.10            | 11.41                  | 51.51           | 74.00          | -22.49      | Peak     | Horizontal      |
| 4   | 15900.00        | 28.34            | 11.41                  | 39.75           | 54.00          | -14.25      | Average  | Horizontal      |
| 5   | 10600.00        | 42.98            | 5.78                   | 48.76           | 74.00          | -25.24      | Peak     | Vertical        |
| 6   | 10600.00        | 29.76            | 5.78                   | 35.54           | 54.00          | -18.46      | Average  | Vertical        |
| 7   | 15900.00        | 39.95            | 11.51                  | 51.46           | 74.00          | -22.54      | Peak     | Vertical        |
| 8   | 15900.00        | 28.45            | 11.51                  | 39.96           | 54.00          | -14.04      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 64**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 4924.00         | 43.08            | 5.63                   | 48.71           | 74.00          | -25.29      | Peak     | Horizontal      |
| 2   | 4924.00         | 29.97            | 5.63                   | 35.60           | 54.00          | -18.40      | Average  | Horizontal      |
| 3   | 7386.00         | 39.60            | 11.47                  | 51.07           | 74.00          | -22.93      | Peak     | Horizontal      |
| 4   | 7386.00         | 28.39            | 11.47                  | 39.86           | 54.00          | -14.14      | Average  | Horizontal      |
| 5   | 4924.00         | 44.24            | 5.76                   | 50.00           | 74.00          | -24.00      | Peak     | Vertical        |
| 6   | 4924.00         | 29.69            | 5.76                   | 35.45           | 54.00          | -18.55      | Average  | Vertical        |
| 7   | 7386.00         | 40.15            | 11.57                  | 51.72           | 74.00          | -22.28      | Peak     | Vertical        |
| 8   | 7386.00         | 28.28            | 11.57                  | 39.85           | 54.00          | -14.15      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 100**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11000.00        | 42.63            | 5.32                   | 47.95           | 74.00          | -26.05      | Peak     | Horizontal      |
| 2   | 11000.00        | 30.88            | 5.32                   | 36.20           | 54.00          | -17.80      | Average  | Horizontal      |
| 3   | 16500.00        | 40.63            | 12.55                  | 53.18           | 74.00          | -20.82      | Peak     | Horizontal      |
| 4   | 16500.00        | 28.41            | 12.55                  | 40.96           | 54.00          | -13.04      | Average  | Horizontal      |
| 5   | 11000.00        | 42.57            | 5.52                   | 48.09           | 74.00          | -25.91      | Peak     | Vertical        |
| 6   | 11000.00        | 30.92            | 5.52                   | 36.44           | 54.00          | -17.56      | Average  | Vertical        |
| 7   | 16500.00        | 40.04            | 12.85                  | 52.89           | 74.00          | -21.11      | Peak     | Vertical        |
| 8   | 16500.00        | 28.36            | 12.85                  | 41.21           | 54.00          | -12.79      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 116**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11160.00        | 44.51            | 5.57                   | 50.08           | 74.00          | -23.92      | Peak     | Horizontal      |
| 2   | 11160.00        | 29.58            | 5.57                   | 35.15           | 54.00          | -18.85      | Average  | Horizontal      |
| 3   | 16740.00        | 42.30            | 12.37                  | 54.67           | 74.00          | -19.33      | Peak     | Horizontal      |
| 4   | 16740.00        | 28.05            | 12.37                  | 40.42           | 54.00          | -13.58      | Average  | Horizontal      |
| 5   | 11160.00        | 44.59            | 5.74                   | 50.33           | 74.00          | -23.67      | Peak     | Vertical        |
| 6   | 11160.00        | 29.54            | 5.74                   | 35.28           | 54.00          | -18.72      | Average  | Vertical        |
| 7   | 16740.00        | 40.38            | 12.63                  | 53.01           | 74.00          | -20.99      | Peak     | Vertical        |
| 8   | 16740.00        | 28.00            | 12.63                  | 40.63           | 54.00          | -13.37      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 140**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11400.00        | 44.38            | 5.93                   | 50.31           | 74.00          | -23.69      | Peak     | Horizontal      |
| 2   | 11400.00        | 31.15            | 5.93                   | 37.08           | 54.00          | -16.92      | Average  | Horizontal      |
| 3   | 17100.00        | 39.57            | 12.50                  | 52.07           | 74.00          | -21.93      | Peak     | Horizontal      |
| 4   | 17100.00        | 27.25            | 12.50                  | 39.75           | 54.00          | -14.25      | Average  | Horizontal      |
| 5   | 11400.00        | 42.60            | 6.05                   | 48.65           | 74.00          | -25.35      | Peak     | Vertical        |
| 6   | 11400.00        | 31.11            | 6.05                   | 37.16           | 54.00          | -16.84      | Average  | Vertical        |
| 7   | 17100.00        | 38.93            | 12.66                  | 51.59           | 74.00          | -22.41      | Peak     | Vertical        |
| 8   | 17100.00        | 27.13            | 12.66                  | 39.79           | 54.00          | -14.21      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 149**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11490.00        | 42.70            | 6.07                   | 48.77           | 74.00          | -25.23      | Peak     | Horizontal      |
| 2   | 11490.00        | 30.75            | 6.07                   | 36.82           | 54.00          | -17.18      | Average  | Horizontal      |
| 3   | 17235.00        | 39.65            | 12.94                  | 52.59           | 74.00          | -21.41      | Peak     | Horizontal      |
| 4   | 17235.00        | 27.39            | 12.94                  | 40.33           | 54.00          | -13.67      | Average  | Horizontal      |
| 5   | 11490.00        | 44.13            | 6.17                   | 50.30           | 74.00          | -23.70      | Peak     | Vertical        |
| 6   | 11490.00        | 30.63            | 6.17                   | 36.80           | 54.00          | -17.20      | Average  | Vertical        |
| 7   | 17235.00        | 39.21            | 13.04                  | 52.25           | 74.00          | -21.75      | Peak     | Vertical        |
| 8   | 17235.00        | 27.44            | 13.04                  | 40.48           | 54.00          | -13.52      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 157**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11570.00        | 42.54            | 6.29                   | 48.83           | 74.00          | -25.17      | Peak     | Horizontal      |
| 2   | 11570.00        | 31.65            | 6.29                   | 37.94           | 54.00          | -16.06      | Average  | Horizontal      |
| 3   | 17355.00        | 39.67            | 13.32                  | 52.99           | 74.00          | -21.01      | Peak     | Horizontal      |
| 4   | 17355.00        | 28.35            | 13.32                  | 41.67           | 54.00          | -12.33      | Average  | Horizontal      |
| 5   | 11570.00        | 45.25            | 6.42                   | 51.67           | 74.00          | -22.33      | Peak     | Vertical        |
| 6   | 11570.00        | 31.61            | 6.42                   | 38.03           | 54.00          | -15.97      | Average  | Vertical        |
| 7   | 17355.00        | 39.76            | 13.38                  | 53.14           | 74.00          | -20.86      | Peak     | Vertical        |
| 8   | 17355.00        | 28.22            | 13.38                  | 41.60           | 54.00          | -12.40      | Average  | Vertical        |

**IEEE 802.11n-HT20\_Channel 165**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11650.00        | 42.66            | 6.52                   | 49.18           | 74.00          | -24.82      | Peak     | Horizontal      |
| 2   | 11650.00        | 30.61            | 6.52                   | 37.13           | 54.00          | -16.87      | Average  | Horizontal      |
| 3   | 17475.00        | 39.01            | 13.71                  | 52.72           | 74.00          | -21.28      | Peak     | Horizontal      |
| 4   | 17475.00        | 27.64            | 13.71                  | 41.35           | 54.00          | -12.65      | Average  | Horizontal      |
| 5   | 11650.00        | 43.30            | 6.68                   | 49.98           | 74.00          | -24.02      | Peak     | Vertical        |
| 6   | 11650.00        | 30.83            | 6.68                   | 37.51           | 54.00          | -16.49      | Average  | Vertical        |
| 7   | 17475.00        | 40.95            | 13.73                  | 54.68           | 74.00          | -19.32      | Peak     | Vertical        |
| 8   | 17475.00        | 27.57            | 13.73                  | 41.30           | 54.00          | -12.70      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 38**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10380.00        | 42.57            | 5.60                   | 48.17           | 74.00          | -25.83      | Peak     | Horizontal      |
| 2   | 10380.00        | 30.42            | 5.60                   | 36.02           | 54.00          | -17.98      | Average  | Horizontal      |
| 3   | 15570.00        | 39.19            | 10.99                  | 50.18           | 74.00          | -23.82      | Peak     | Horizontal      |
| 4   | 15570.00        | 28.42            | 10.99                  | 39.41           | 54.00          | -14.59      | Average  | Horizontal      |
| 5   | 10380.00        | 42.09            | 5.75                   | 47.84           | 74.00          | -26.16      | Peak     | Vertical        |
| 6   | 10380.00        | 30.37            | 5.75                   | 36.12           | 54.00          | -17.88      | Average  | Vertical        |
| 7   | 15570.00        | 40.34            | 11.09                  | 51.43           | 74.00          | -22.57      | Peak     | Vertical        |
| 8   | 15570.00        | 28.31            | 11.09                  | 39.40           | 54.00          | -14.60      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 46**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10460.00        | 44.00            | 5.70                   | 49.70           | 74.00          | -24.30      | Peak     | Horizontal      |
| 2   | 10460.00        | 30.21            | 5.70                   | 35.91           | 54.00          | -18.09      | Average  | Horizontal      |
| 3   | 15690.00        | 40.34            | 11.15                  | 51.49           | 74.00          | -22.51      | Peak     | Horizontal      |
| 4   | 15690.00        | 28.15            | 11.15                  | 39.30           | 54.00          | -14.70      | Average  | Horizontal      |
| 5   | 10460.00        | 42.21            | 5.82                   | 48.03           | 74.00          | -25.97      | Peak     | Vertical        |
| 6   | 10460.00        | 30.08            | 5.82                   | 35.90           | 54.00          | -18.10      | Average  | Vertical        |
| 7   | 15690.00        | 39.81            | 11.25                  | 51.06           | 74.00          | -22.94      | Peak     | Vertical        |
| 8   | 15690.00        | 28.03            | 11.25                  | 39.28           | 54.00          | -14.72      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 54**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10540.00        | 44.30            | 5.71                   | 50.01           | 74.00          | -23.99      | Peak     | Horizontal      |
| 2   | 10540.00        | 29.81            | 5.71                   | 35.52           | 54.00          | -18.48      | Average  | Horizontal      |
| 3   | 15810.00        | 39.81            | 11.29                  | 51.10           | 74.00          | -22.90      | Peak     | Horizontal      |
| 4   | 15810.00        | 28.12            | 11.29                  | 39.41           | 54.00          | -14.59      | Average  | Horizontal      |
| 5   | 10540.00        | 41.37            | 5.82                   | 47.19           | 74.00          | -26.81      | Peak     | Vertical        |
| 6   | 10540.00        | 29.76            | 5.82                   | 35.58           | 54.00          | -18.42      | Average  | Vertical        |
| 7   | 15810.00        | 40.26            | 11.39                  | 51.65           | 74.00          | -22.35      | Peak     | Vertical        |
| 8   | 15810.00        | 28.12            | 11.39                  | 39.51           | 54.00          | -14.49      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 62**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10620.00        | 43.81            | 5.64                   | 49.45           | 74.00          | -24.55      | Peak     | Horizontal      |
| 2   | 10620.00        | 30.29            | 5.64                   | 35.93           | 54.00          | -18.07      | Average  | Horizontal      |
| 3   | 15930.00        | 41.13            | 11.45                  | 52.58           | 74.00          | -21.42      | Peak     | Horizontal      |
| 4   | 15930.00        | 28.63            | 11.45                  | 40.08           | 54.00          | -13.92      | Average  | Horizontal      |
| 5   | 10620.00        | 42.33            | 5.77                   | 48.10           | 74.00          | -25.90      | Peak     | Vertical        |
| 6   | 10620.00        | 30.24            | 5.77                   | 36.01           | 54.00          | -17.99      | Average  | Vertical        |
| 7   | 15930.00        | 40.92            | 11.55                  | 52.47           | 74.00          | -21.53      | Peak     | Vertical        |
| 8   | 15930.00        | 28.52            | 11.55                  | 40.07           | 54.00          | -13.93      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 102**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11020.00        | 43.47            | 5.35                   | 48.82           | 74.00          | -25.18      | Peak     | Horizontal      |
| 2   | 11020.00        | 31.73            | 5.35                   | 37.08           | 54.00          | -16.92      | Average  | Horizontal      |
| 3   | 16530.00        | 41.25            | 12.54                  | 53.79           | 74.00          | -20.21      | Peak     | Horizontal      |
| 4   | 16530.00        | 28.53            | 12.54                  | 41.07           | 54.00          | -12.93      | Average  | Horizontal      |
| 5   | 11020.00        | 43.08            | 5.54                   | 48.62           | 74.00          | -25.38      | Peak     | Vertical        |
| 6   | 11020.00        | 31.02            | 5.54                   | 36.56           | 54.00          | -17.44      | Average  | Vertical        |
| 7   | 16530.00        | 39.83            | 12.83                  | 52.66           | 74.00          | -21.34      | Peak     | Vertical        |
| 8   | 16530.00        | 28.59            | 12.83                  | 41.42           | 54.00          | -12.58      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 110**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11100.00        | 43.07            | 5.47                   | 48.54           | 74.00          | -25.46      | Peak     | Horizontal      |
| 2   | 11100.00        | 31.29            | 5.47                   | 36.76           | 54.00          | -17.24      | Average  | Horizontal      |
| 3   | 16650.00        | 40.67            | 12.44                  | 53.11           | 74.00          | -20.89      | Peak     | Horizontal      |
| 4   | 16650.00        | 29.15            | 12.44                  | 41.59           | 54.00          | -12.41      | Average  | Horizontal      |
| 5   | 11100.00        | 44.61            | 5.65                   | 50.26           | 74.00          | -23.74      | Peak     | Vertical        |
| 6   | 11100.00        | 31.77            | 5.65                   | 37.42           | 54.00          | -16.58      | Average  | Vertical        |
| 7   | 16650.00        | 41.21            | 12.71                  | 53.92           | 74.00          | -20.08      | Peak     | Vertical        |
| 8   | 16650.00        | 28.44            | 12.71                  | 41.15           | 54.00          | -12.85      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 134**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11340.00        | 43.49            | 5.84                   | 49.33           | 74.00          | -24.67      | Peak     | Horizontal      |
| 2   | 11340.00        | 31.34            | 5.84                   | 37.18           | 54.00          | -16.82      | Average  | Horizontal      |
| 3   | 17010.00        | 40.47            | 12.21                  | 52.68           | 74.00          | -21.32      | Peak     | Horizontal      |
| 4   | 17010.00        | 28.76            | 12.21                  | 40.97           | 54.00          | -13.03      | Average  | Horizontal      |
| 5   | 11340.00        | 44.45            | 5.97                   | 50.42           | 74.00          | -23.58      | Peak     | Vertical        |
| 6   | 11340.00        | 30.57            | 5.97                   | 36.54           | 54.00          | -17.46      | Average  | Vertical        |
| 7   | 17010.00        | 40.52            | 12.41                  | 52.93           | 74.00          | -21.07      | Peak     | Vertical        |
| 8   | 17010.00        | 27.64            | 12.41                  | 40.05           | 54.00          | -13.95      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 151**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11510.00        | 44.79            | 6.11                   | 50.90           | 74.00          | -23.10      | Peak     | Horizontal      |
| 2   | 11510.00        | 30.96            | 6.11                   | 37.07           | 54.00          | -16.93      | Average  | Horizontal      |
| 3   | 17265.00        | 40.08            | 13.04                  | 53.12           | 74.00          | -20.88      | Peak     | Horizontal      |
| 4   | 17265.00        | 27.23            | 13.04                  | 40.27           | 54.00          | -13.73      | Average  | Horizontal      |
| 5   | 11510.00        | 43.19            | 6.21                   | 49.40           | 74.00          | -24.60      | Peak     | Vertical        |
| 6   | 11510.00        | 31.22            | 6.21                   | 37.43           | 54.00          | -16.57      | Average  | Vertical        |
| 7   | 17265.00        | 39.27            | 13.14                  | 52.41           | 74.00          | -21.59      | Peak     | Vertical        |
| 8   | 17265.00        | 28.15            | 13.14                  | 41.29           | 54.00          | -12.71      | Average  | Vertical        |

**IEEE 802.11n-HT40\_Channel 159**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11590.00        | 44.59            | 6.35                   | 50.94           | 74.00          | -23.06      | Peak     | Horizontal      |
| 2   | 11590.00        | 31.82            | 6.35                   | 38.17           | 54.00          | -15.83      | Average  | Horizontal      |
| 3   | 17385.00        | 39.34            | 13.42                  | 52.76           | 74.00          | -21.24      | Peak     | Horizontal      |
| 4   | 17385.00        | 28.13            | 13.42                  | 41.55           | 54.00          | -12.45      | Average  | Horizontal      |
| 5   | 11590.00        | 44.39            | 6.49                   | 50.88           | 74.00          | -23.12      | Peak     | Vertical        |
| 6   | 11590.00        | 31.87            | 6.49                   | 38.36           | 54.00          | -15.64      | Average  | Vertical        |
| 7   | 17385.00        | 39.91            | 13.46                  | 53.37           | 74.00          | -20.63      | Peak     | Vertical        |
| 8   | 17385.00        | 28.14            | 13.46                  | 41.60           | 54.00          | -12.40      | Average  | Vertical        |

**IEEE 802.11ac-VHT80\_Channel 42**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10460.00        | 40.76            | 5.70                   | 46.46           | 74.00          | -27.54      | Peak     | Horizontal      |
| 2   | 10460.00        | 30.08            | 5.70                   | 35.78           | 54.00          | -18.22      | Average  | Horizontal      |
| 3   | 15690.00        | 39.38            | 11.15                  | 50.53           | 74.00          | -23.47      | Peak     | Horizontal      |
| 4   | 15690.00        | 28.03            | 11.15                  | 39.18           | 54.00          | -14.82      | Average  | Horizontal      |
| 5   | 10460.00        | 42.14            | 5.82                   | 47.96           | 74.00          | -26.04      | Peak     | Vertical        |
| 6   | 10460.00        | 30.26            | 5.82                   | 36.08           | 54.00          | -17.92      | Average  | Vertical        |
| 7   | 15690.00        | 40.09            | 11.25                  | 51.34           | 74.00          | -22.66      | Peak     | Vertical        |
| 8   | 15690.00        | 28.15            | 11.25                  | 39.40           | 54.00          | -14.60      | Average  | Vertical        |

**IEEE 802.11ac-VHT80\_Channel 58**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 10580.00        | 41.36            | 5.68                   | 47.04           | 74.00          | -26.96      | Peak     | Horizontal      |
| 2   | 10580.00        | 29.79            | 5.68                   | 35.47           | 54.00          | -18.53      | Average  | Horizontal      |
| 3   | 15870.00        | 39.45            | 11.37                  | 50.82           | 74.00          | -23.18      | Peak     | Horizontal      |
| 4   | 15870.00        | 27.93            | 11.37                  | 39.30           | 54.00          | -14.70      | Average  | Horizontal      |
| 5   | 10580.00        | 40.56            | 5.79                   | 46.35           | 74.00          | -27.65      | Peak     | Vertical        |
| 6   | 10580.00        | 29.55            | 5.79                   | 35.34           | 54.00          | -18.66      | Average  | Vertical        |
| 7   | 15870.00        | 39.37            | 11.47                  | 50.84           | 74.00          | -23.16      | Peak     | Vertical        |
| 8   | 15870.00        | 27.98            | 11.47                  | 39.45           | 54.00          | -14.55      | Average  | Vertical        |

**IEEE 802.11ac-VHT80\_Channel 106**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11060.00        | 42.10            | 5.41                   | 47.51           | 74.00          | -26.49      | Peak     | Horizontal      |
| 2   | 11060.00        | 30.68            | 5.41                   | 36.09           | 54.00          | -17.91      | Average  | Horizontal      |
| 3   | 16590.00        | 39.84            | 12.49                  | 52.33           | 74.00          | -21.67      | Peak     | Horizontal      |
| 4   | 16590.00        | 27.77            | 12.49                  | 40.26           | 54.00          | -13.74      | Average  | Horizontal      |
| 5   | 11060.00        | 41.92            | 5.60                   | 47.52           | 74.00          | -26.48      | Peak     | Vertical        |
| 6   | 11060.00        | 30.55            | 5.60                   | 36.15           | 54.00          | -17.85      | Average  | Vertical        |
| 7   | 16590.00        | 39.02            | 12.78                  | 51.80           | 74.00          | -22.20      | Peak     | Vertical        |
| 8   | 16590.00        | 27.70            | 12.78                  | 40.48           | 54.00          | -13.52      | Average  | Vertical        |

**IEEE 802.11ac-VHT80\_Channel 122**

| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11220.00        | 41.51            | 5.66                   | 47.17           | 74.00          | -26.83      | Peak     | Horizontal      |
| 2   | 11220.00        | 30.28            | 5.66                   | 35.94           | 54.00          | -18.06      | Average  | Horizontal      |
| 3   | 16830.00        | 39.88            | 12.31                  | 52.19           | 74.00          | -21.81      | Peak     | Horizontal      |
| 4   | 16830.00        | 28.43            | 12.31                  | 40.74           | 54.00          | -13.26      | Average  | Horizontal      |
| 5   | 11220.00        | 43.44            | 5.81                   | 49.25           | 74.00          | -24.75      | Peak     | Vertical        |
| 6   | 11220.00        | 30.29            | 5.81                   | 36.10           | 54.00          | -17.90      | Average  | Vertical        |
| 7   | 16830.00        | 40.14            | 12.54                  | 52.68           | 74.00          | -21.32      | Peak     | Vertical        |
| 8   | 16830.00        | 28.45            | 12.54                  | 40.99           | 54.00          | -13.01      | Average  | Vertical        |

**IEEE 802.11ac-VHT80\_Channel 155**

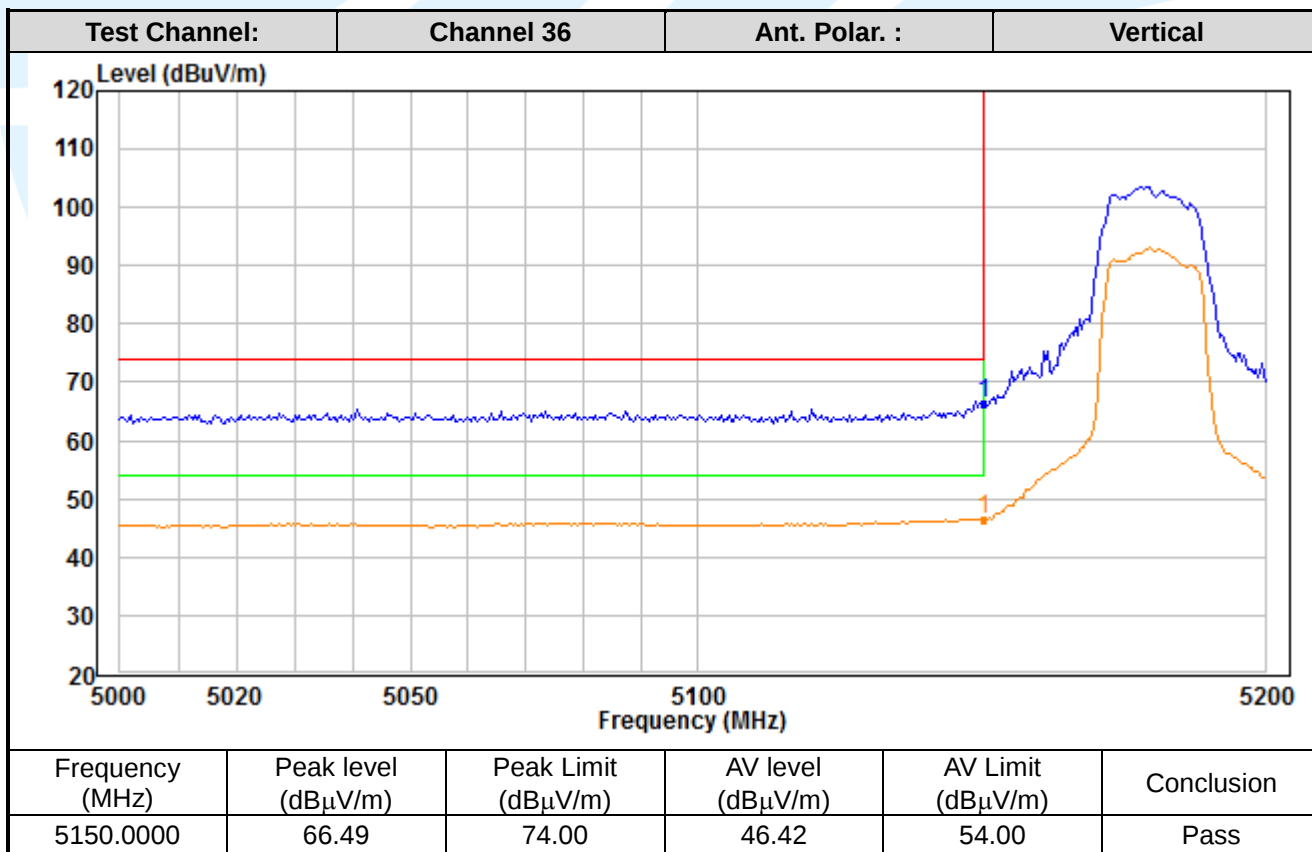
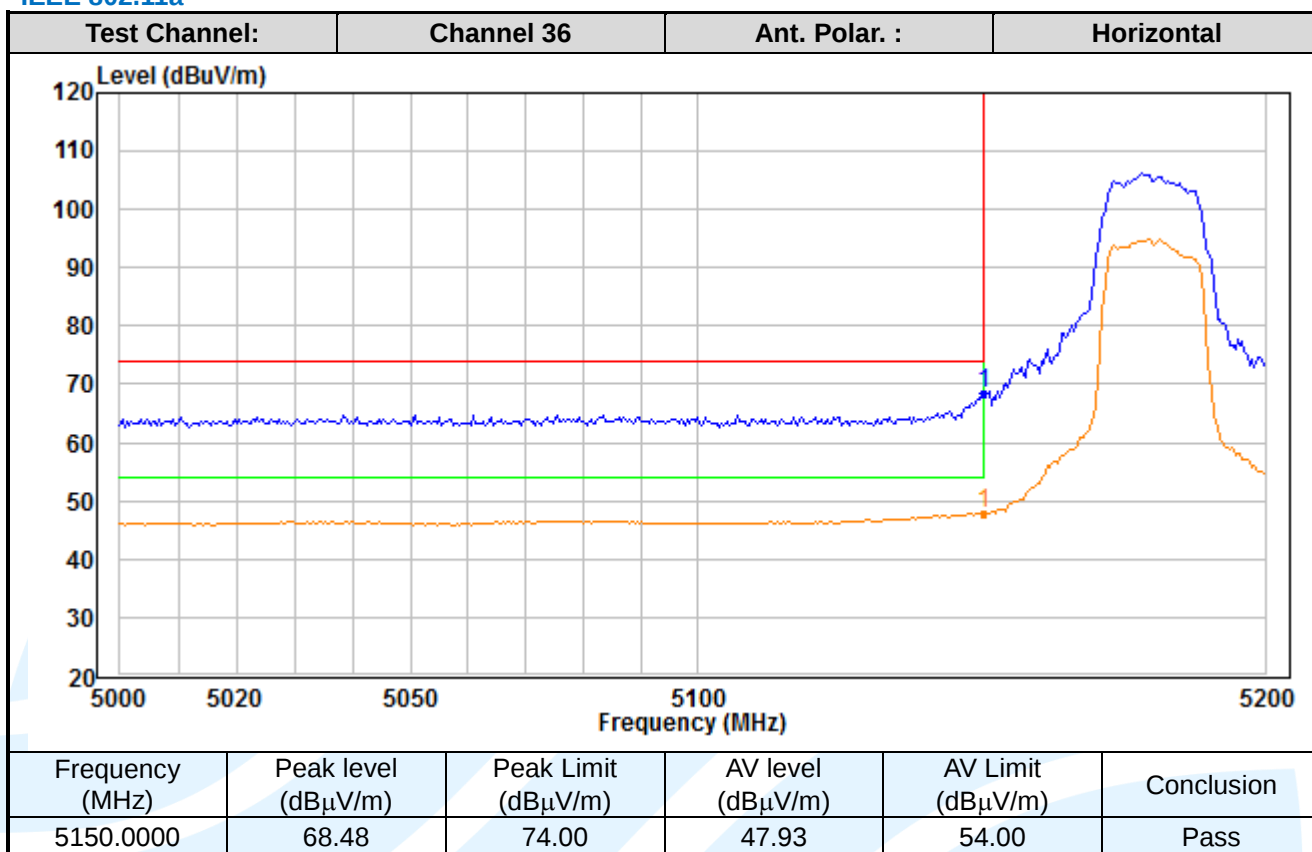
| No. | Frequency (MHz) | Reading (dBμV/m) | Correction factor (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|-----------------|------------------|------------------------|-----------------|----------------|-------------|----------|-----------------|
| 1   | 11550.00        | 42.17            | 6.23                   | 48.40           | 74.00          | -25.60      | Peak     | Horizontal      |
| 2   | 11550.00        | 30.46            | 6.23                   | 36.69           | 54.00          | -17.31      | Average  | Horizontal      |
| 3   | 17325.00        | 38.72            | 13.23                  | 51.95           | 74.00          | -22.05      | Peak     | Horizontal      |
| 4   | 17325.00        | 27.23            | 13.23                  | 40.46           | 54.00          | -13.54      | Average  | Horizontal      |
| 5   | 11550.00        | 42.63            | 6.35                   | 48.98           | 74.00          | -25.02      | Peak     | Vertical        |
| 6   | 11550.00        | 30.62            | 6.35                   | 36.97           | 54.00          | -17.03      | Average  | Vertical        |
| 7   | 17325.00        | 39.29            | 13.29                  | 52.58           | 74.00          | -21.42      | Peak     | Vertical        |
| 8   | 17325.00        | 27.19            | 13.29                  | 40.48           | 54.00          | -13.52      | Average  | Vertical        |

**Remark:**

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit
4. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

# Band Edge Measurements (Radiated)

IEEE 802.11a



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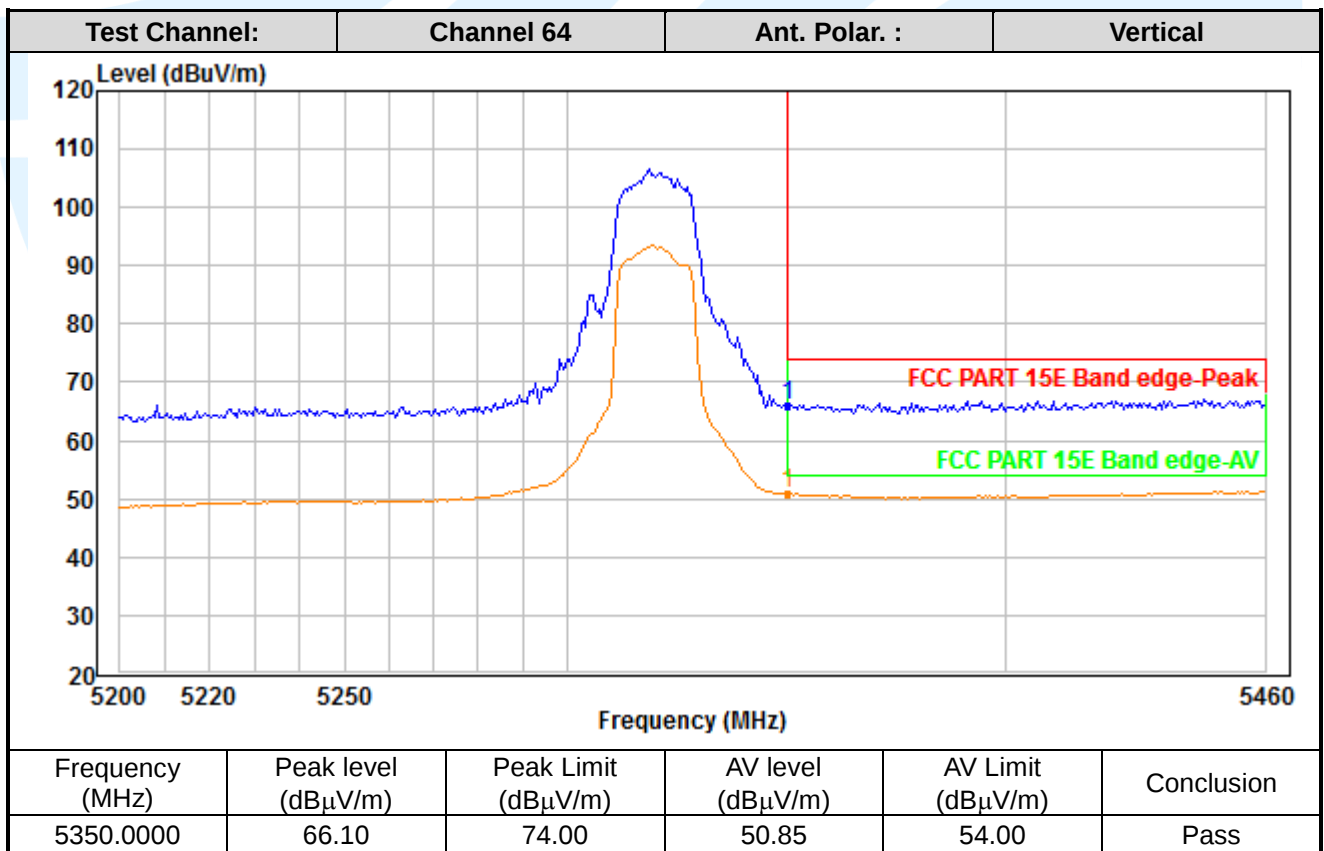
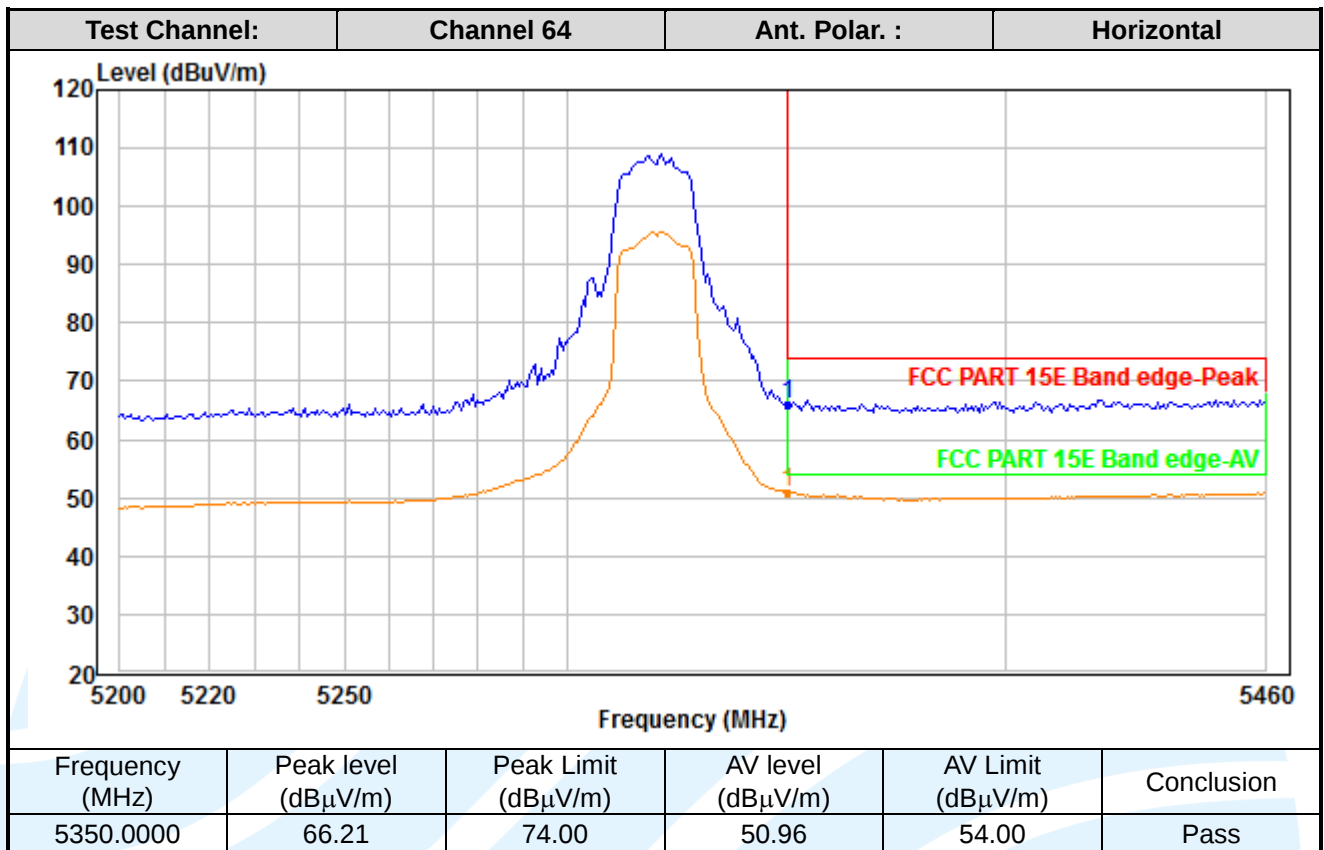
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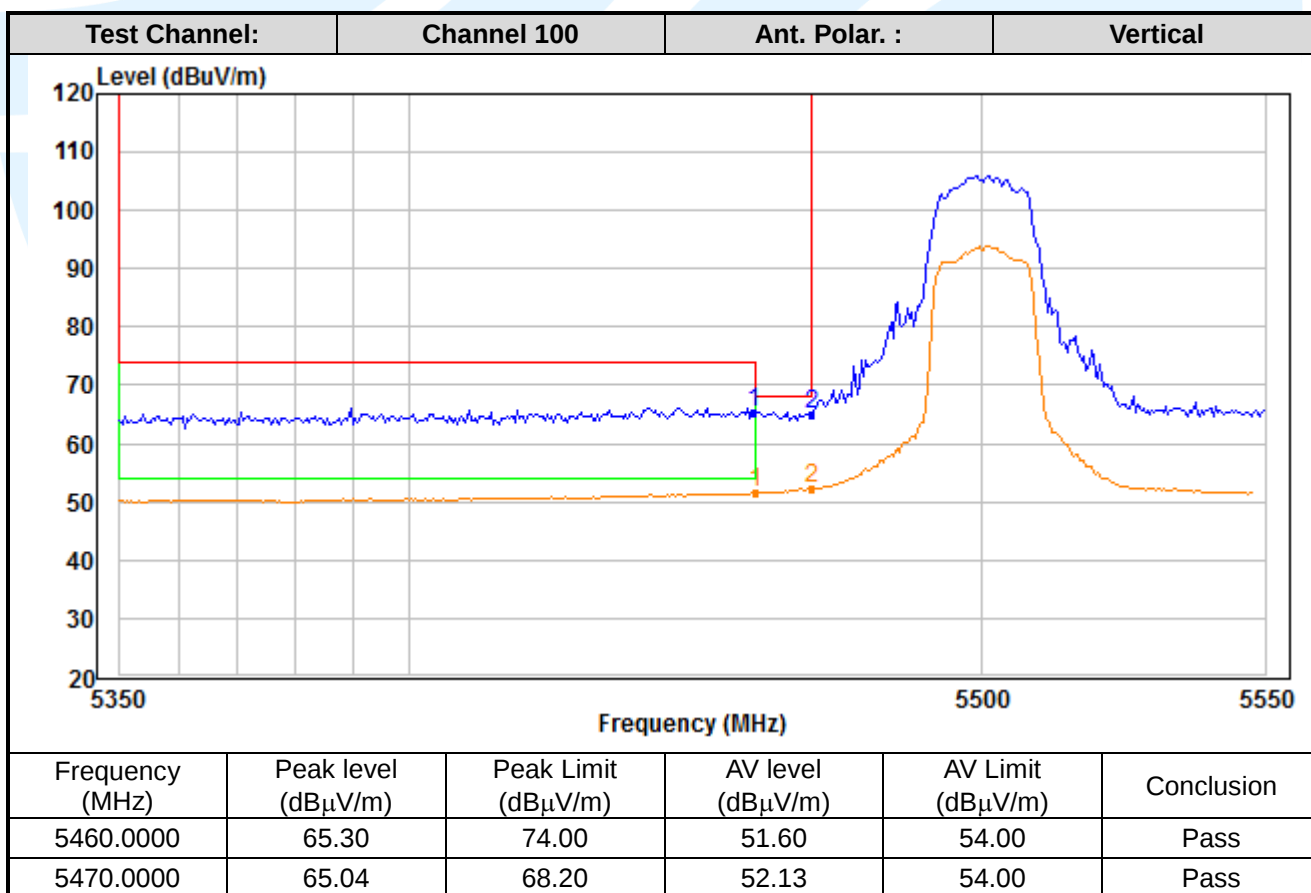
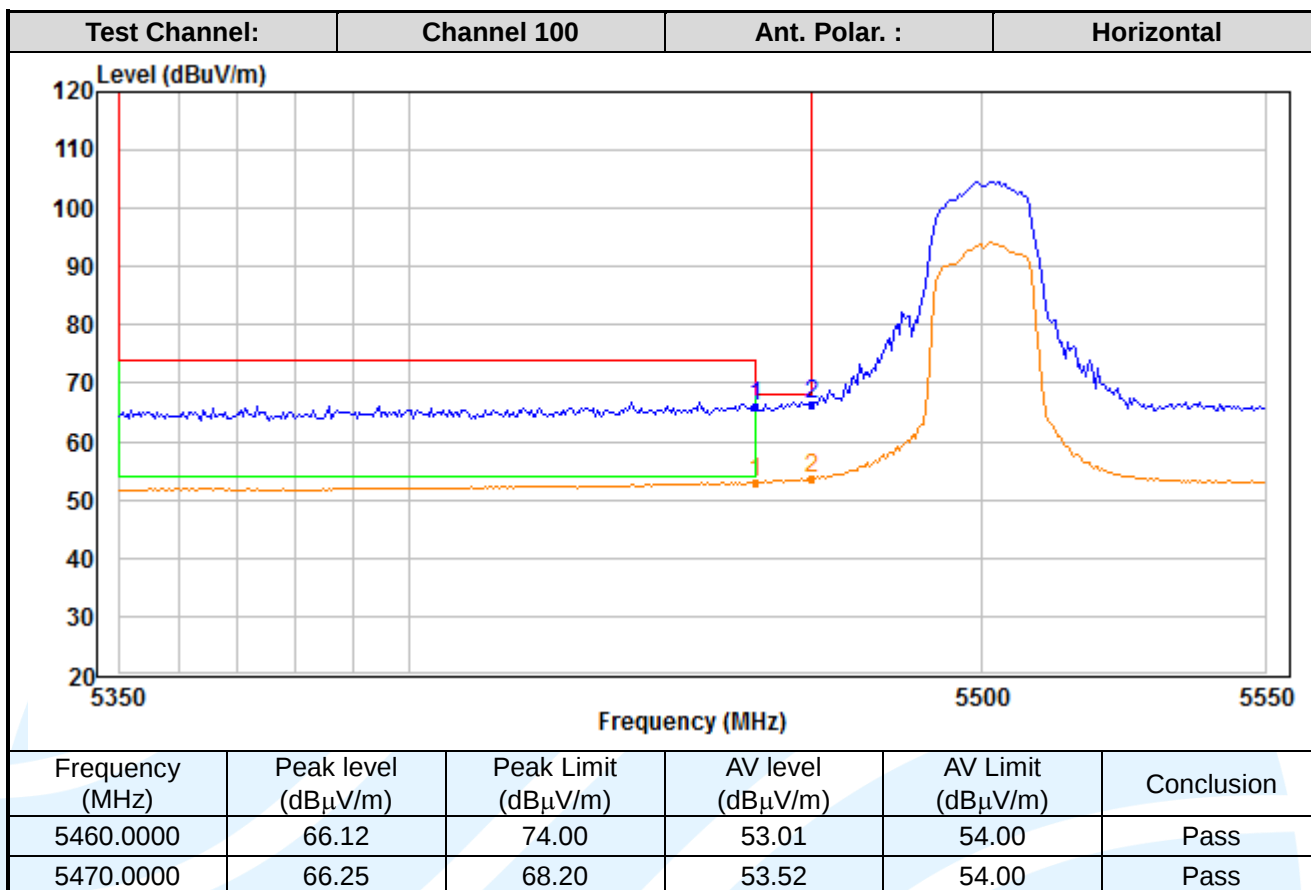
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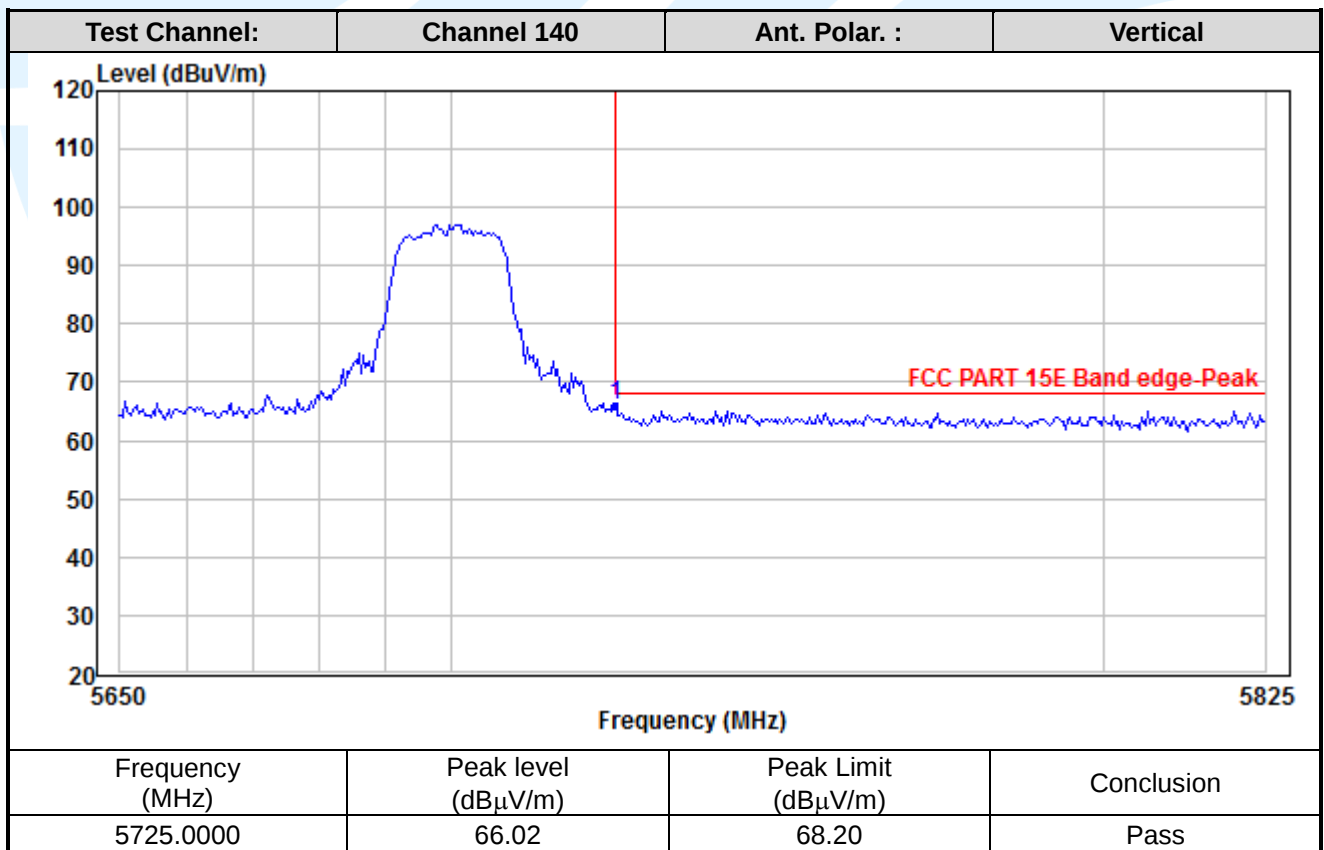
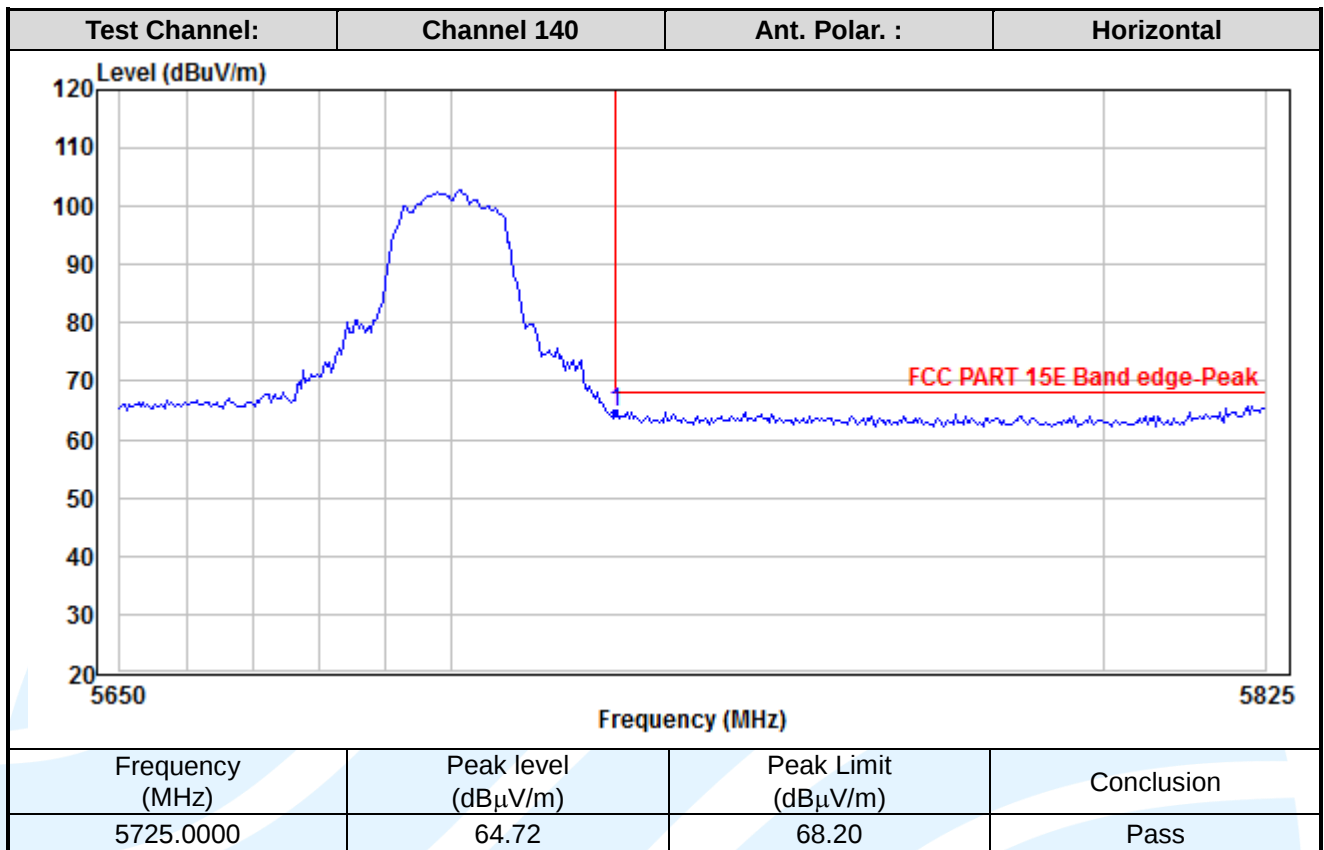
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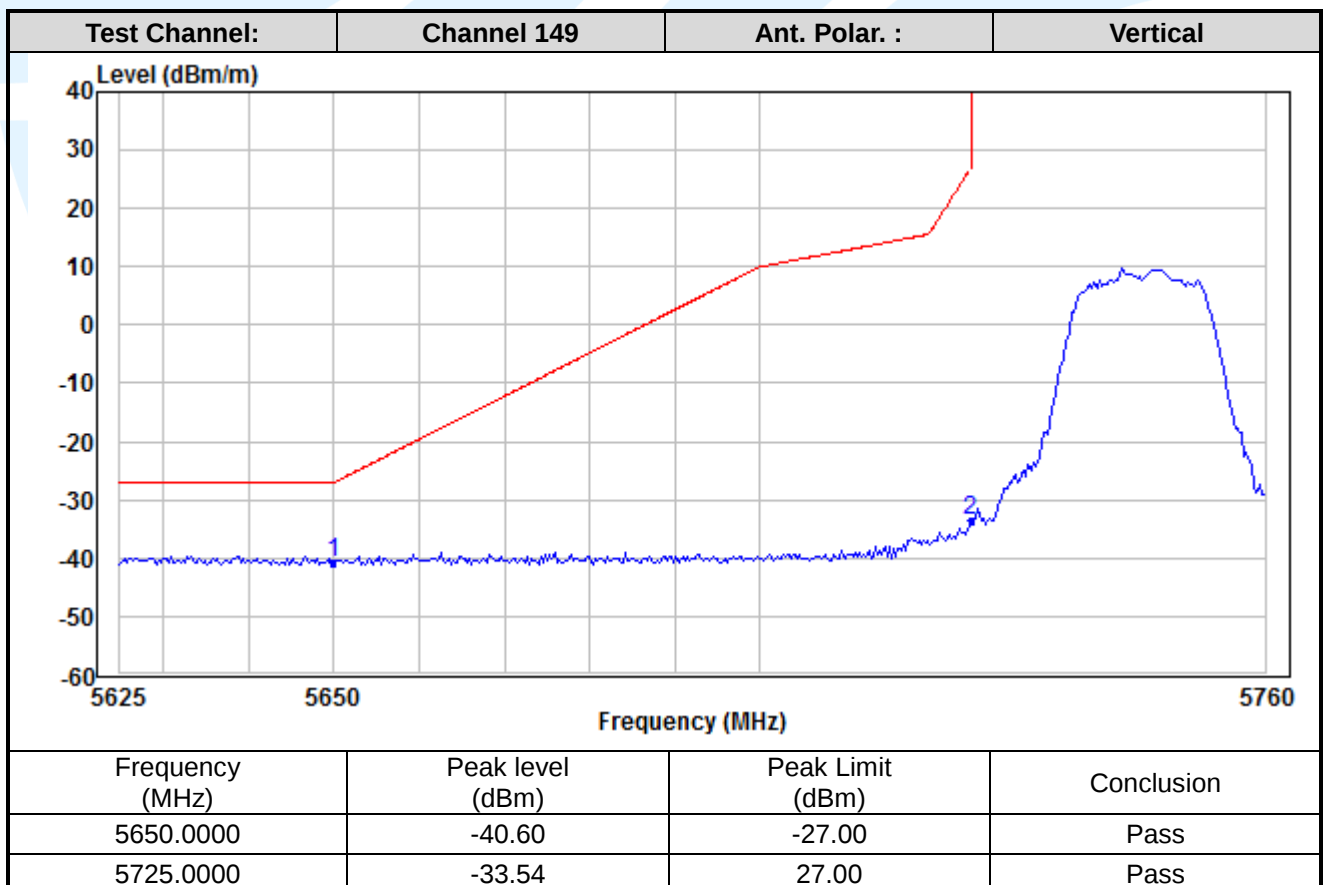
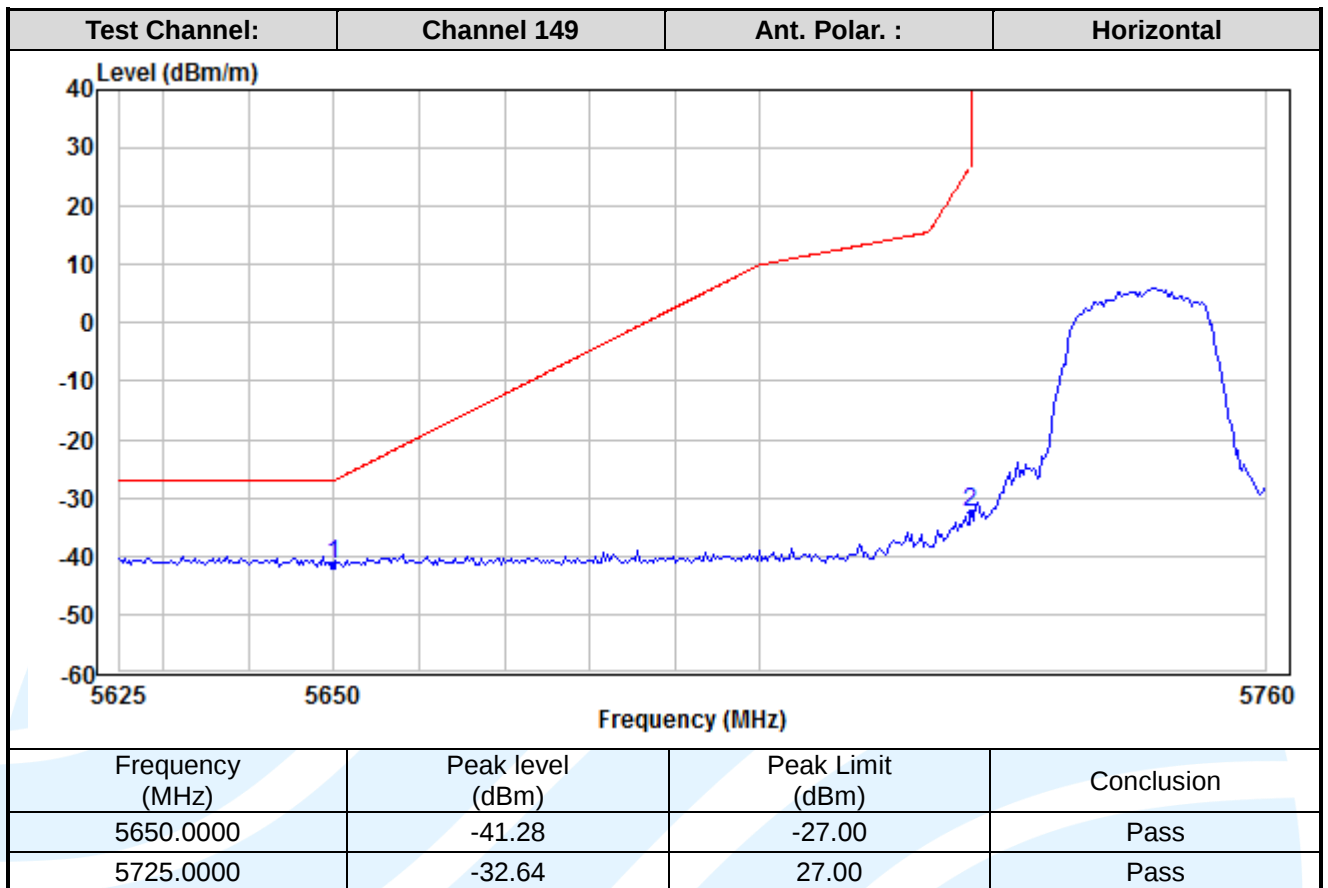
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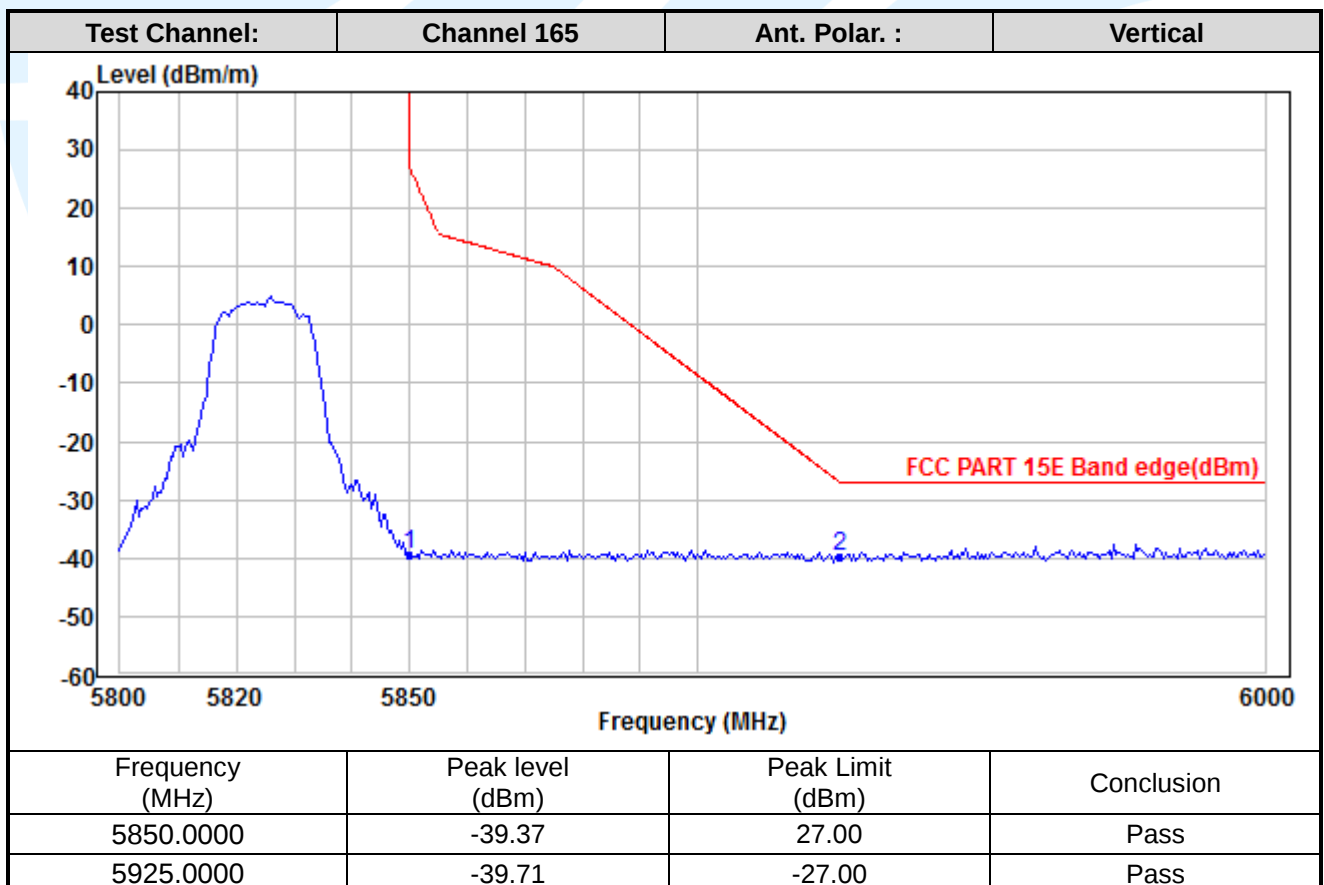
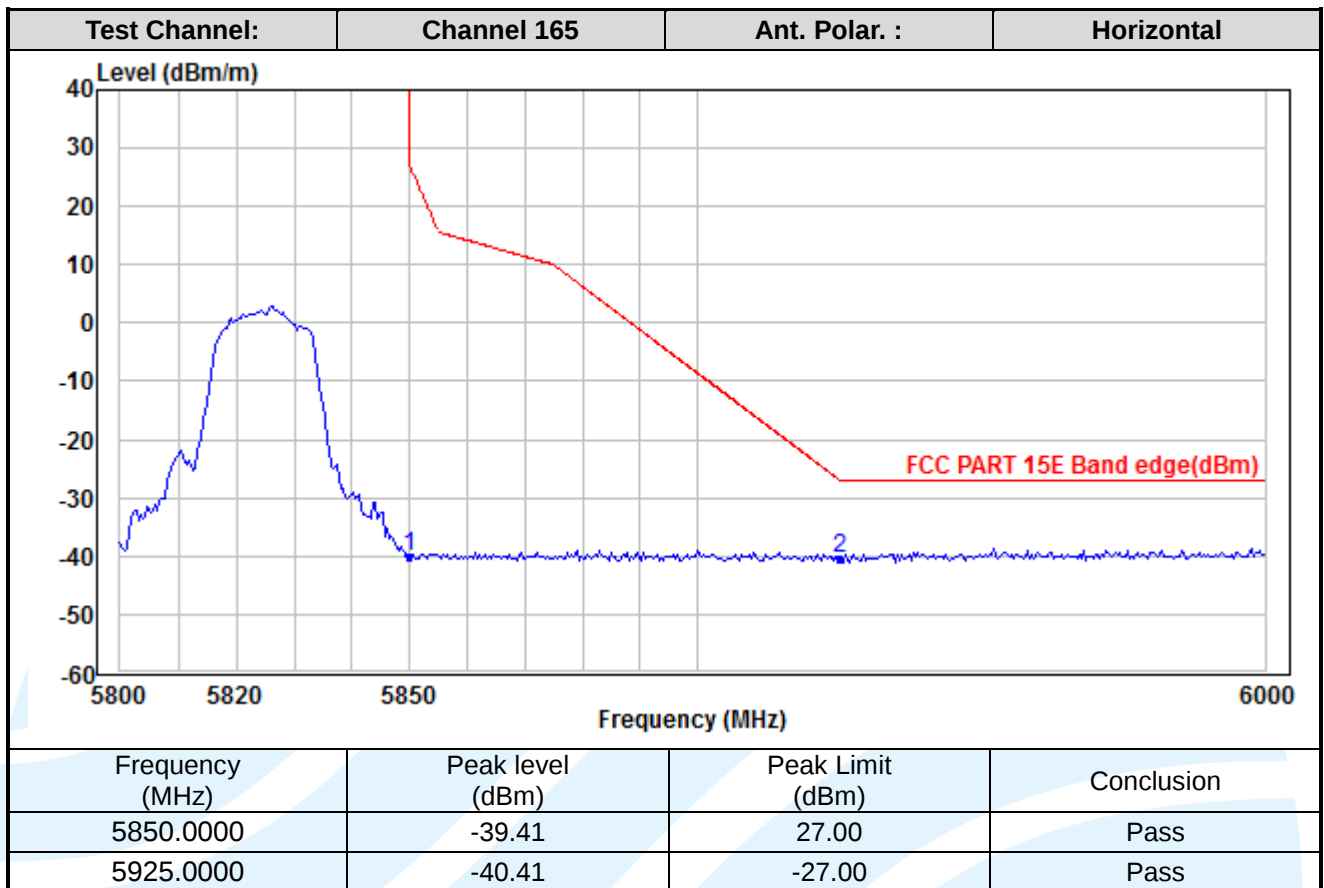
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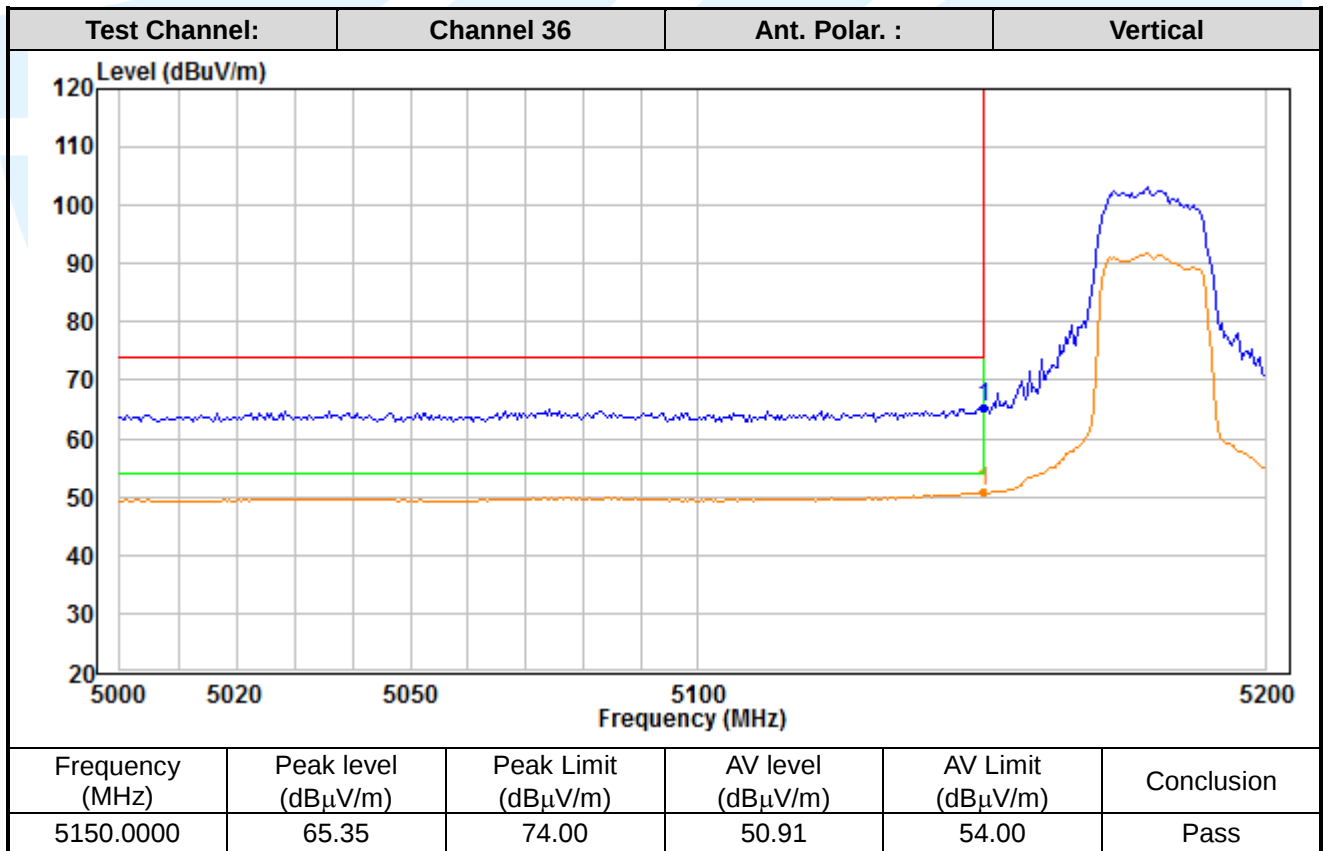
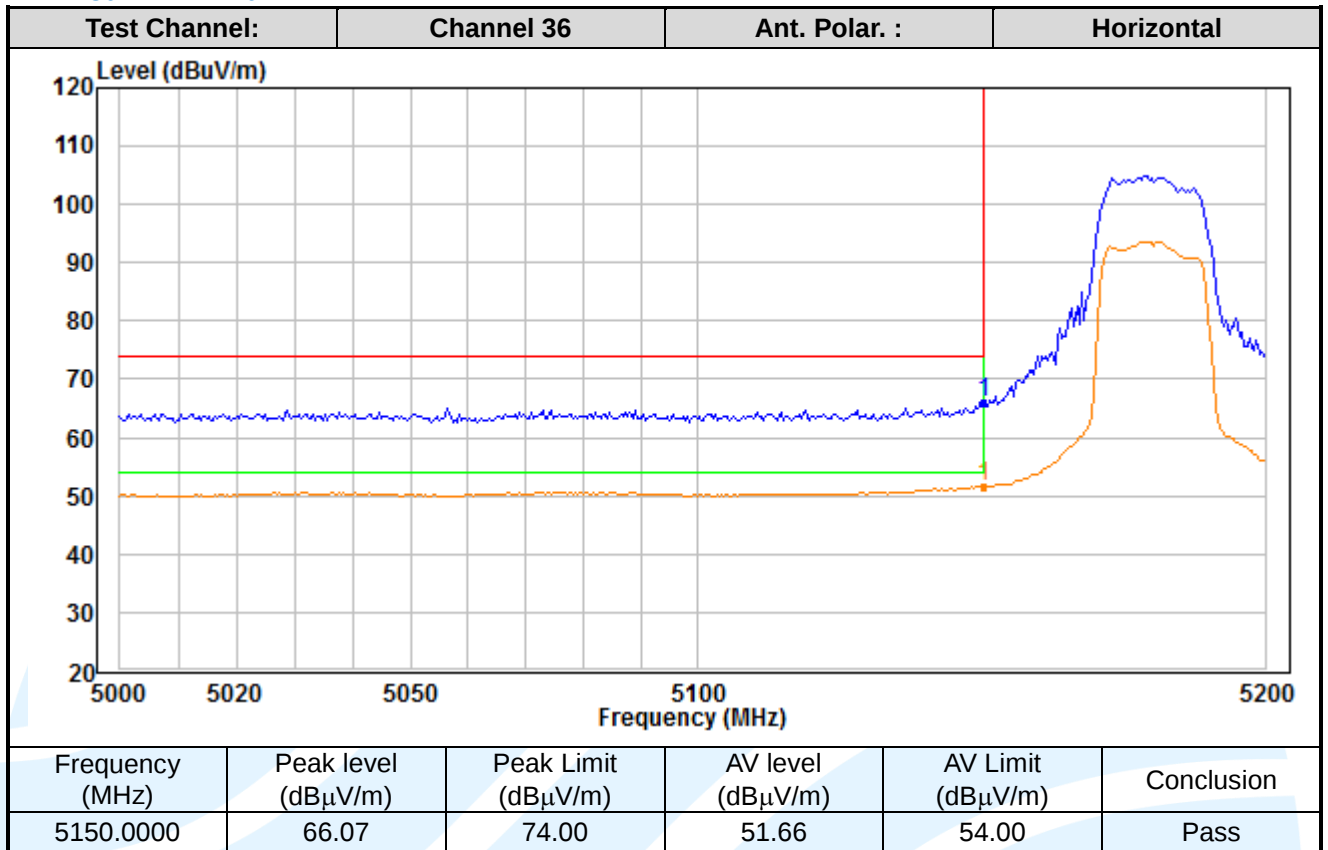
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### IEEE 802.11n-HT20



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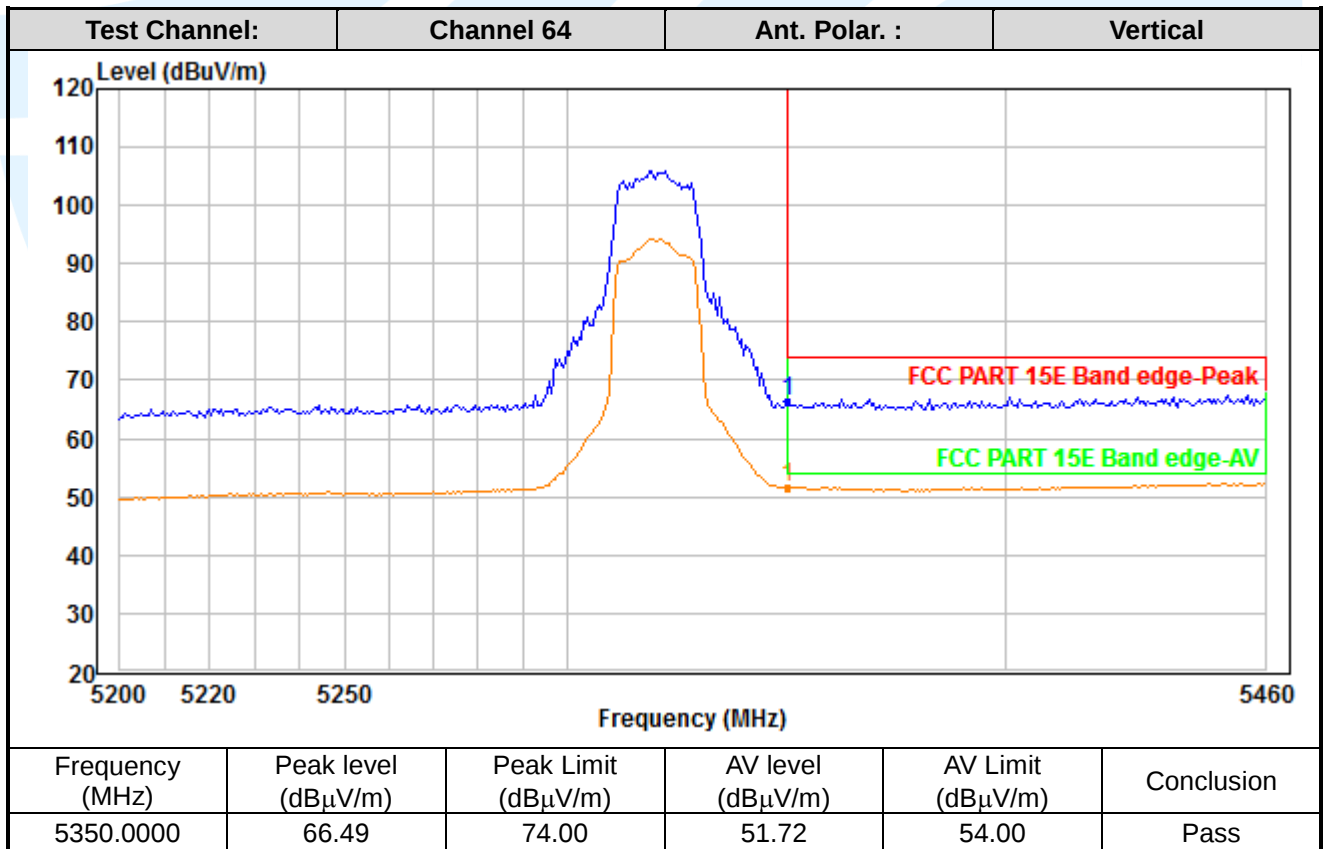
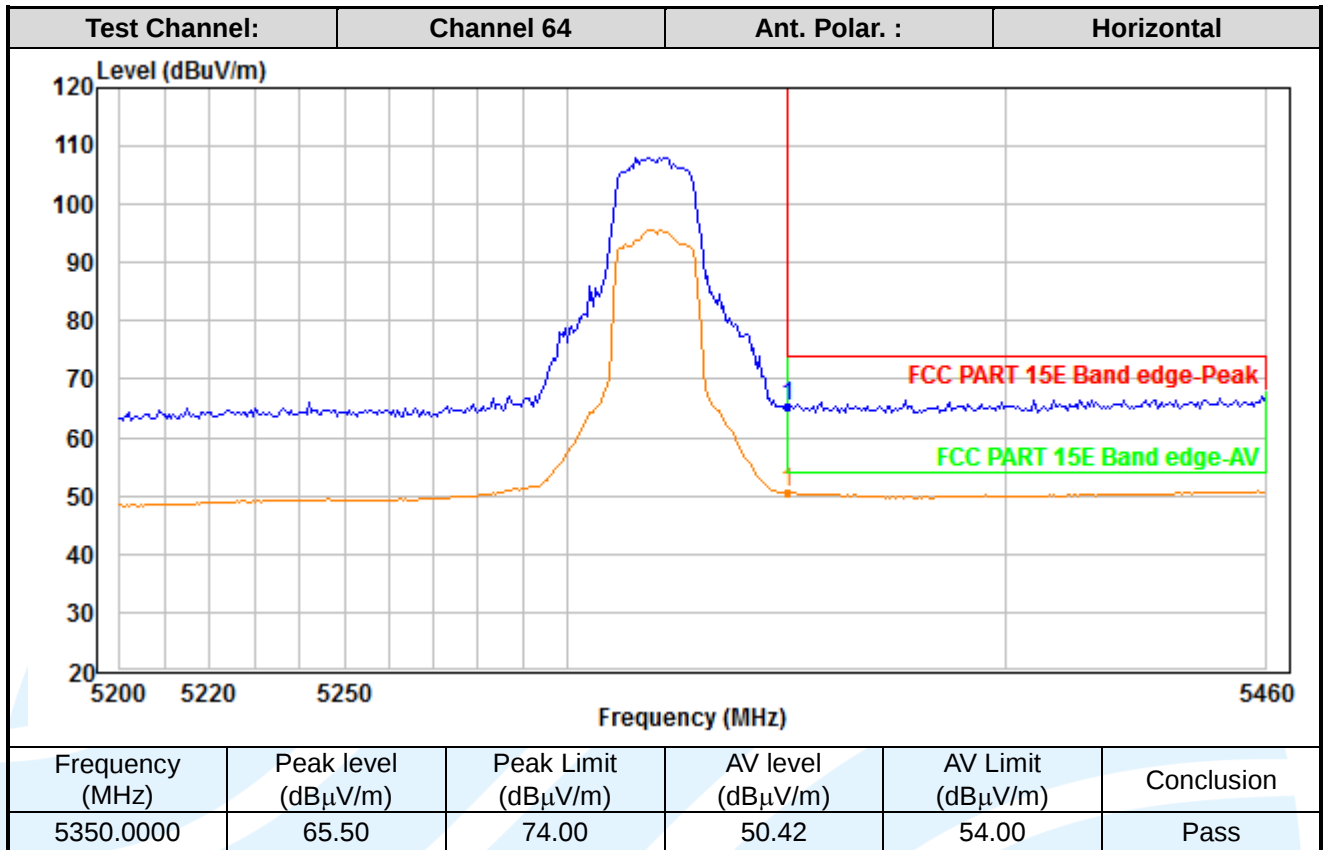
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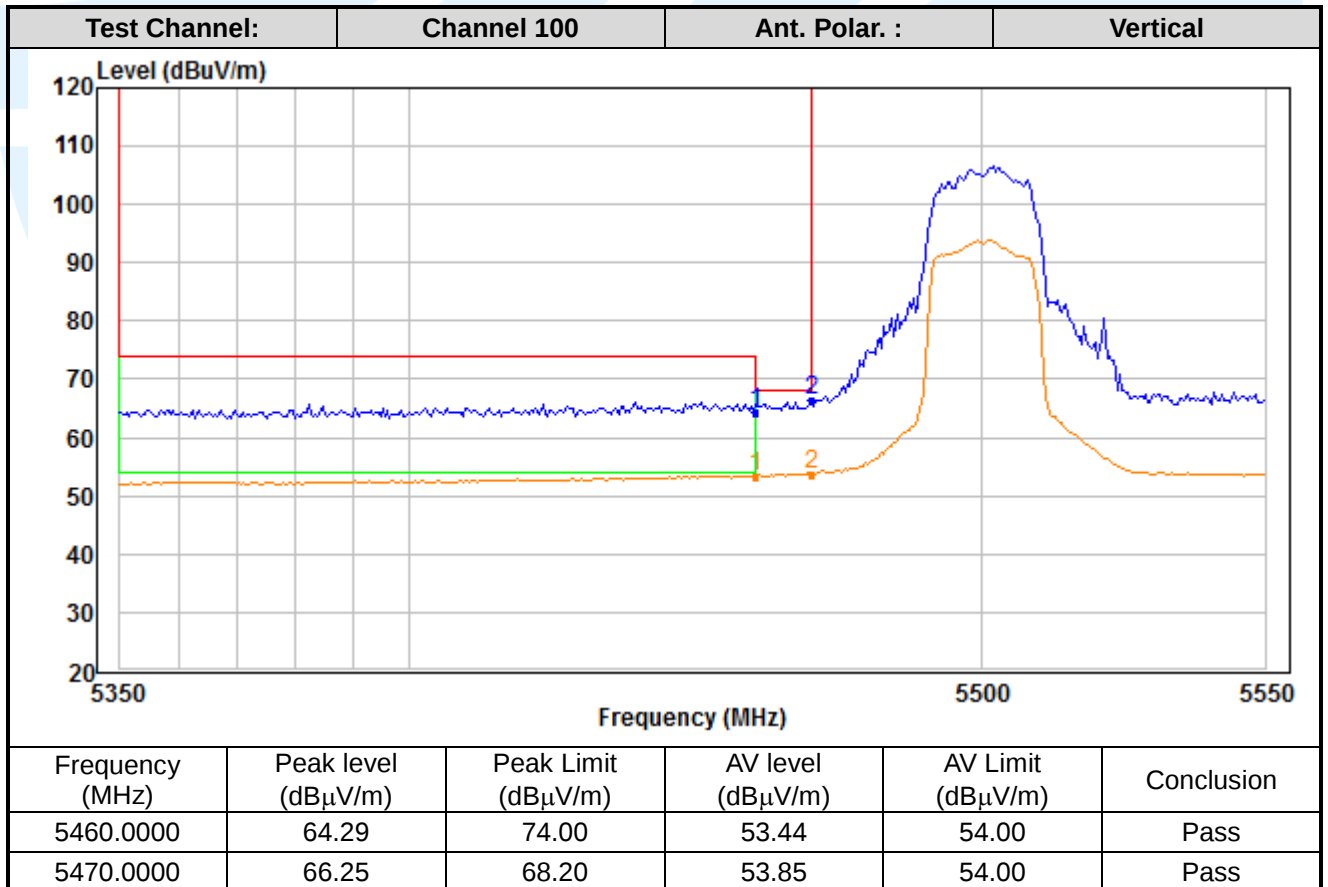
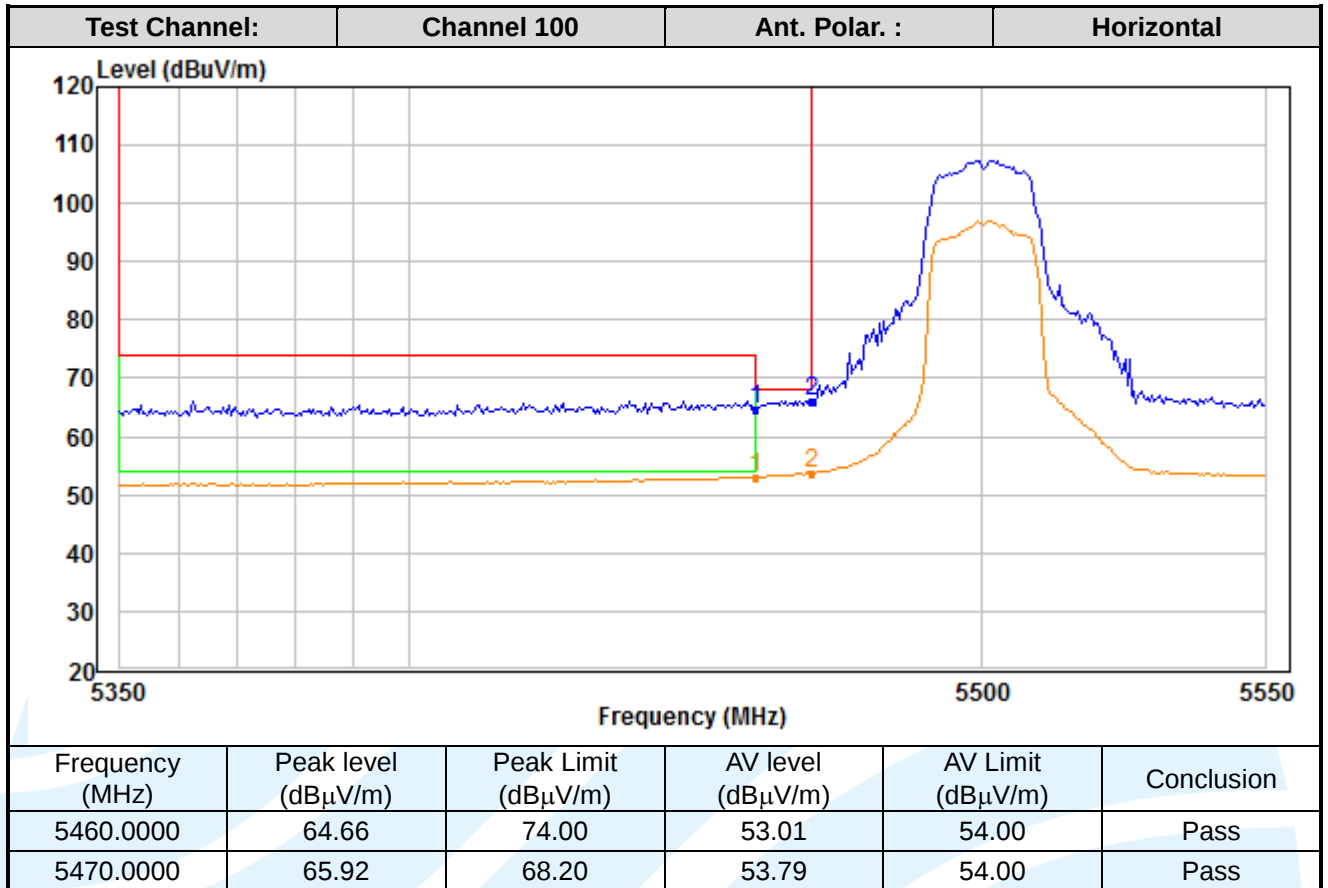
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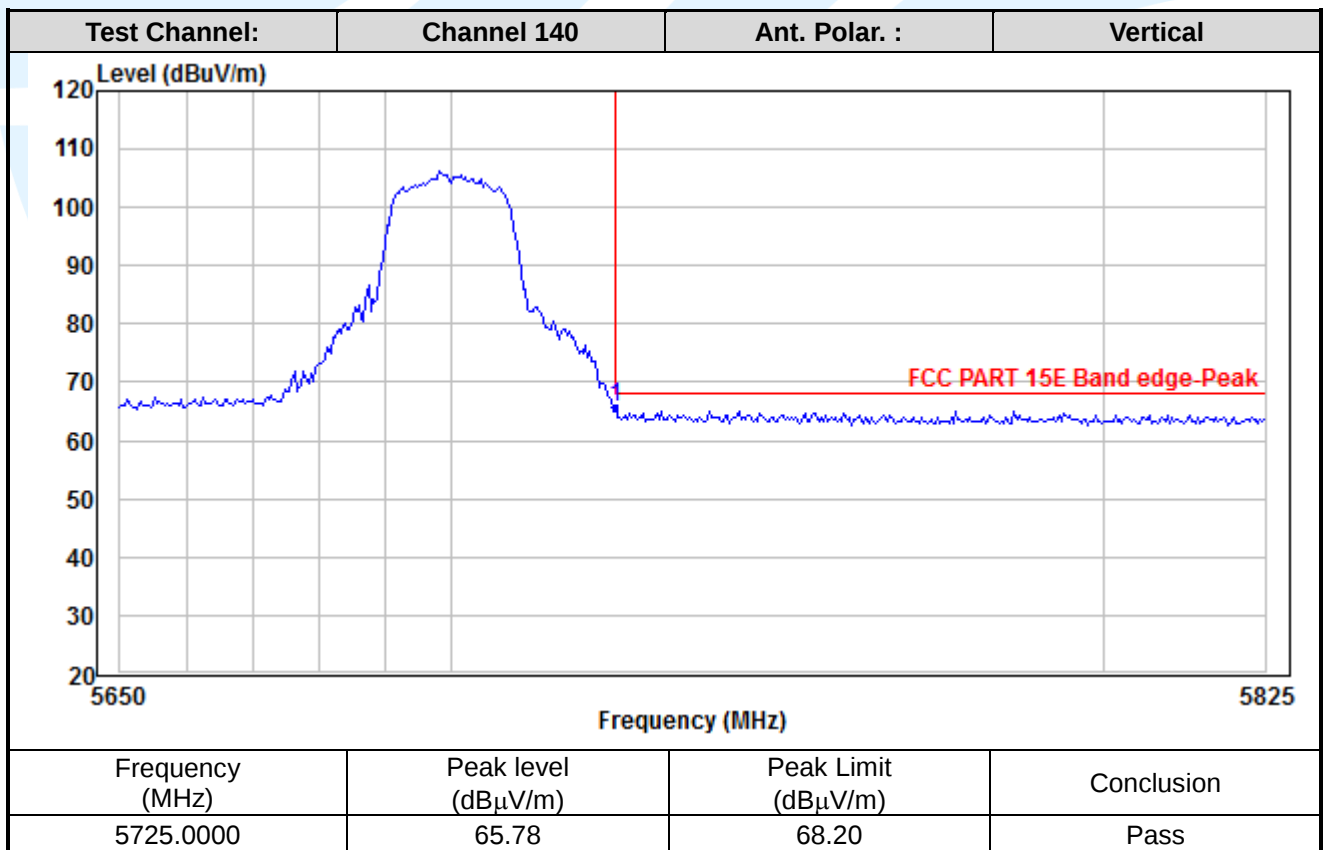
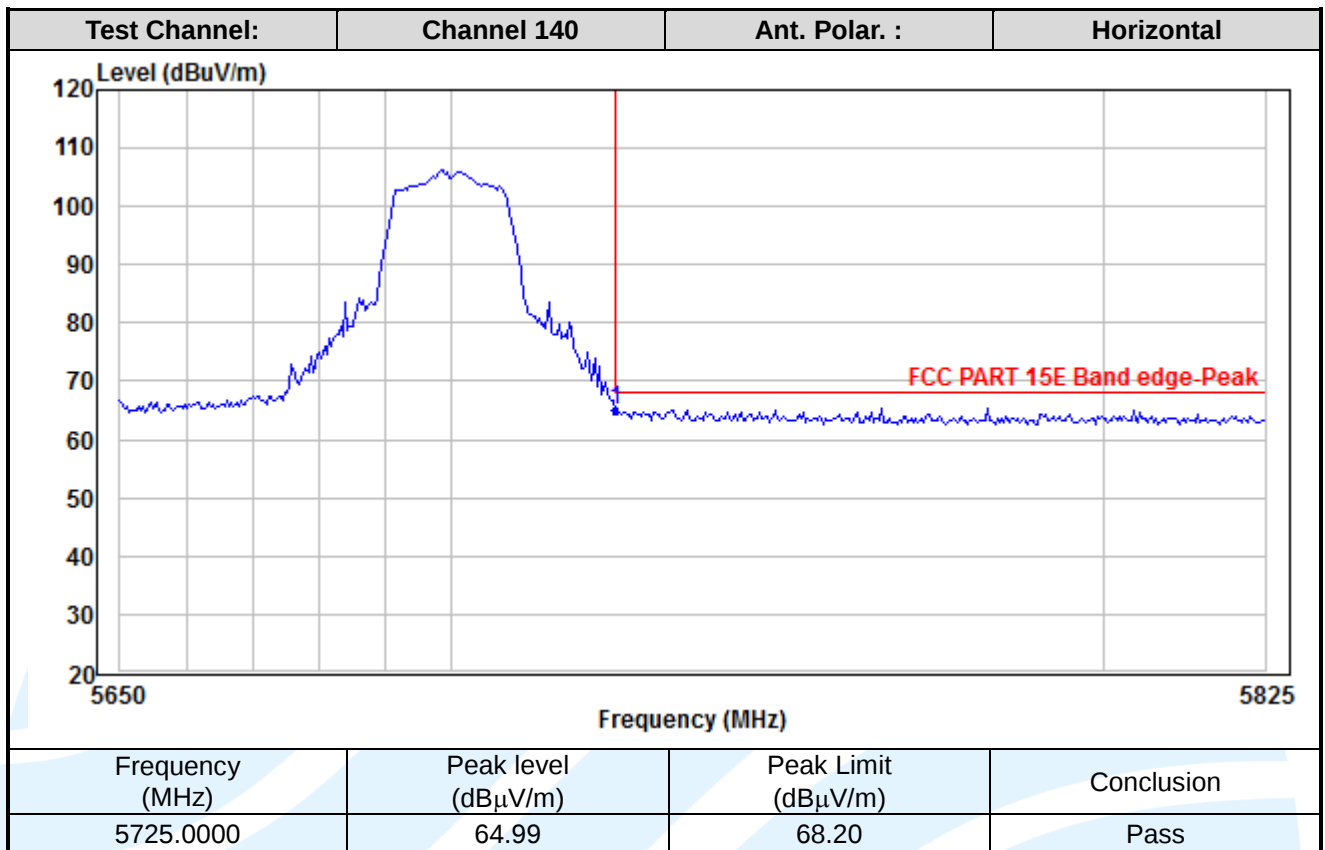
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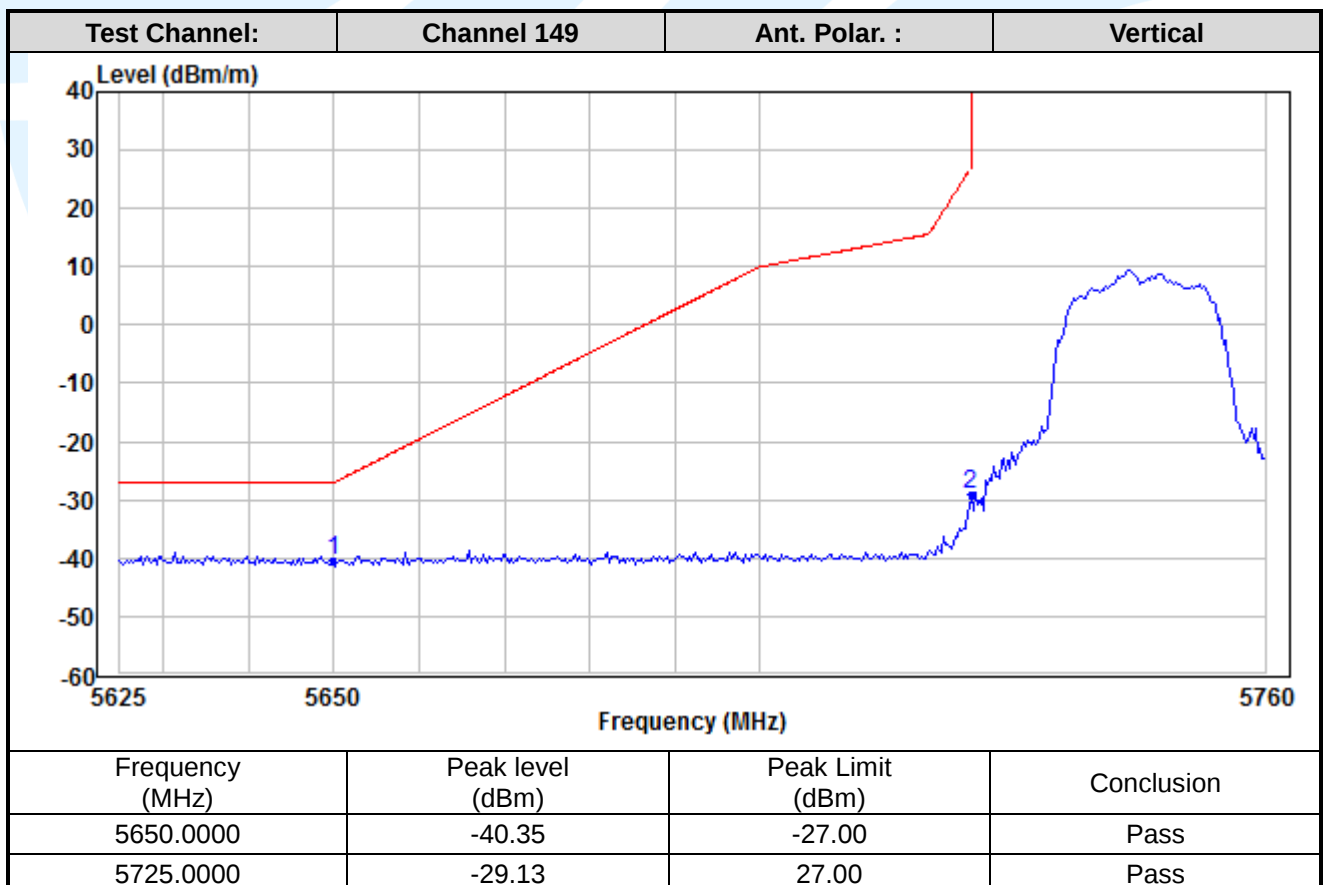
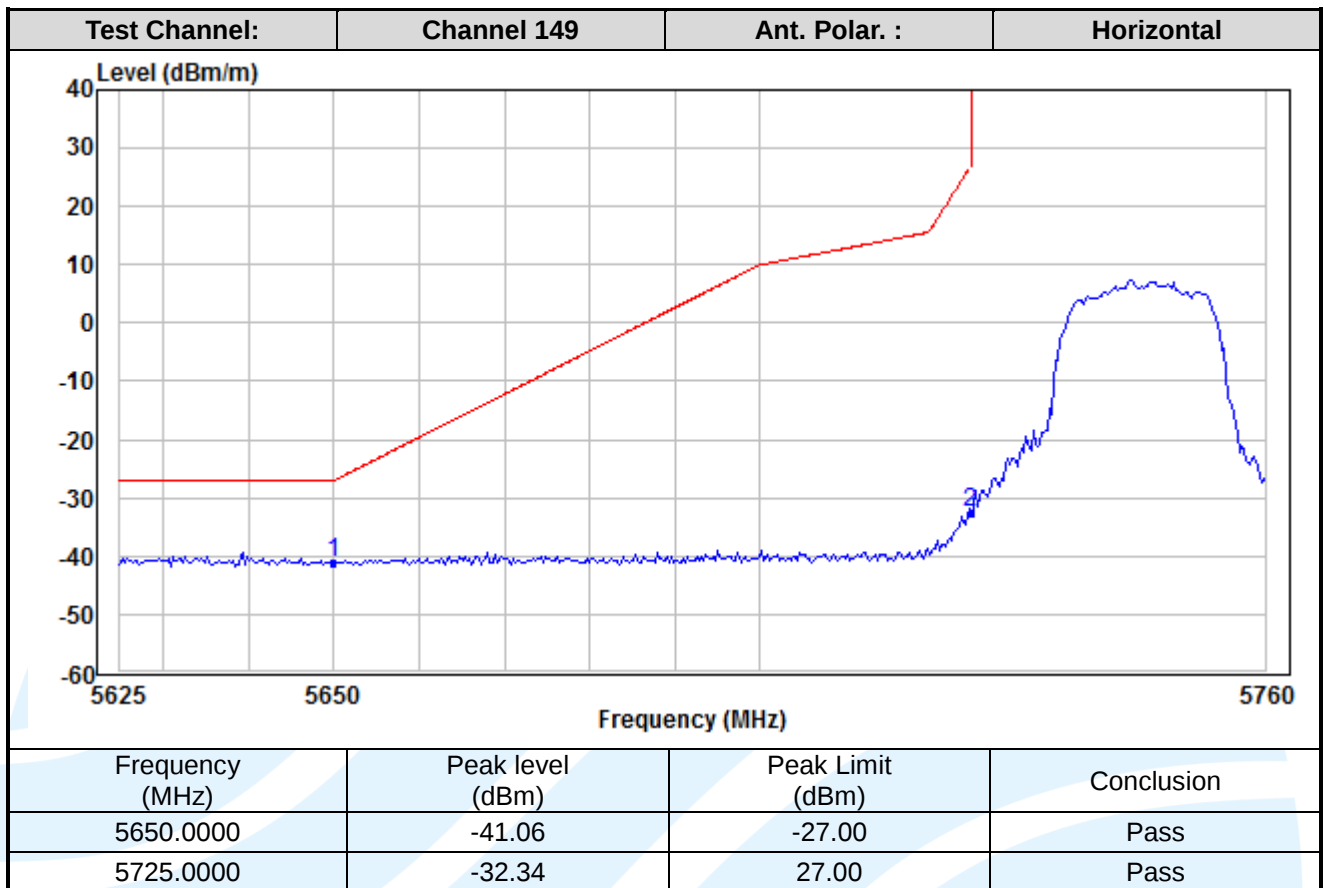
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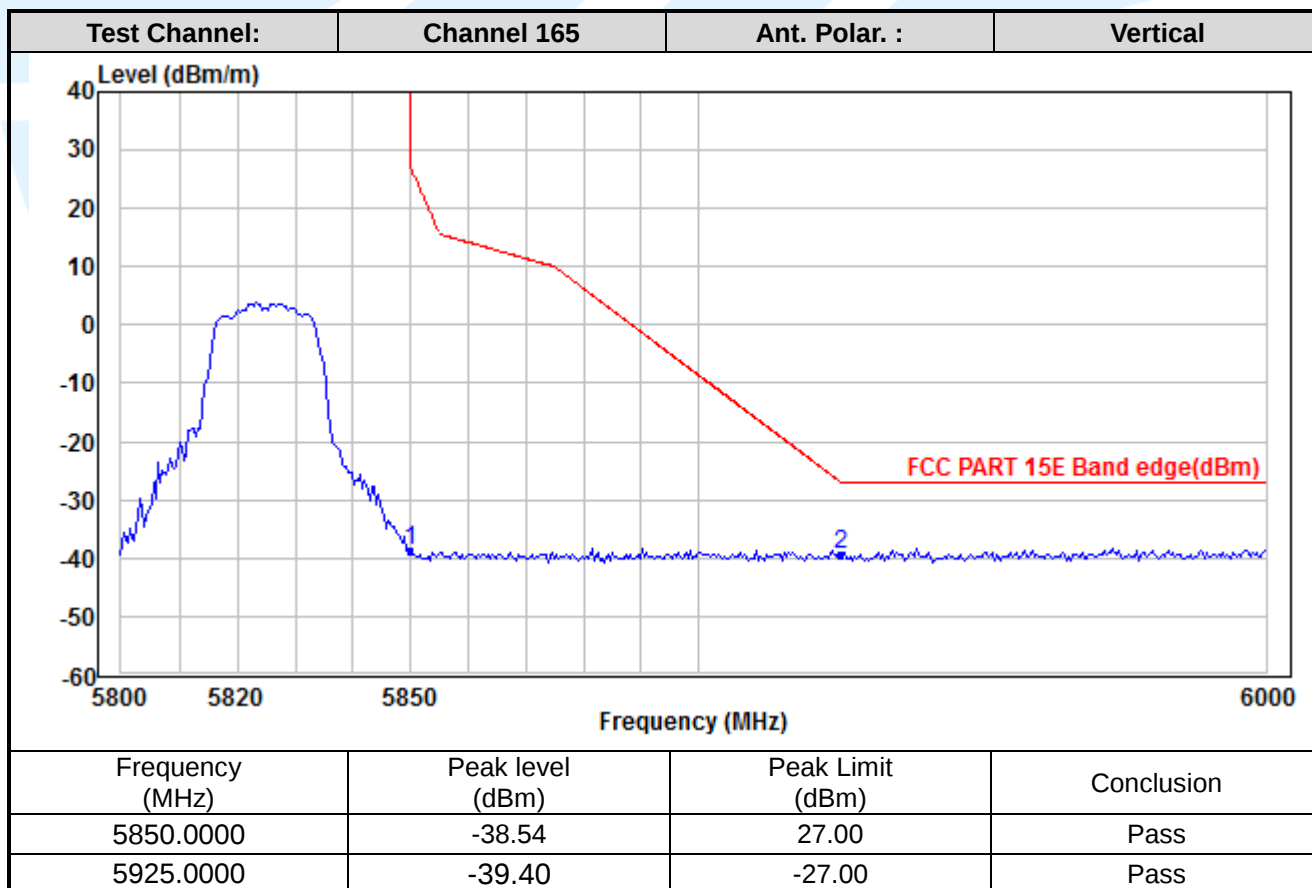
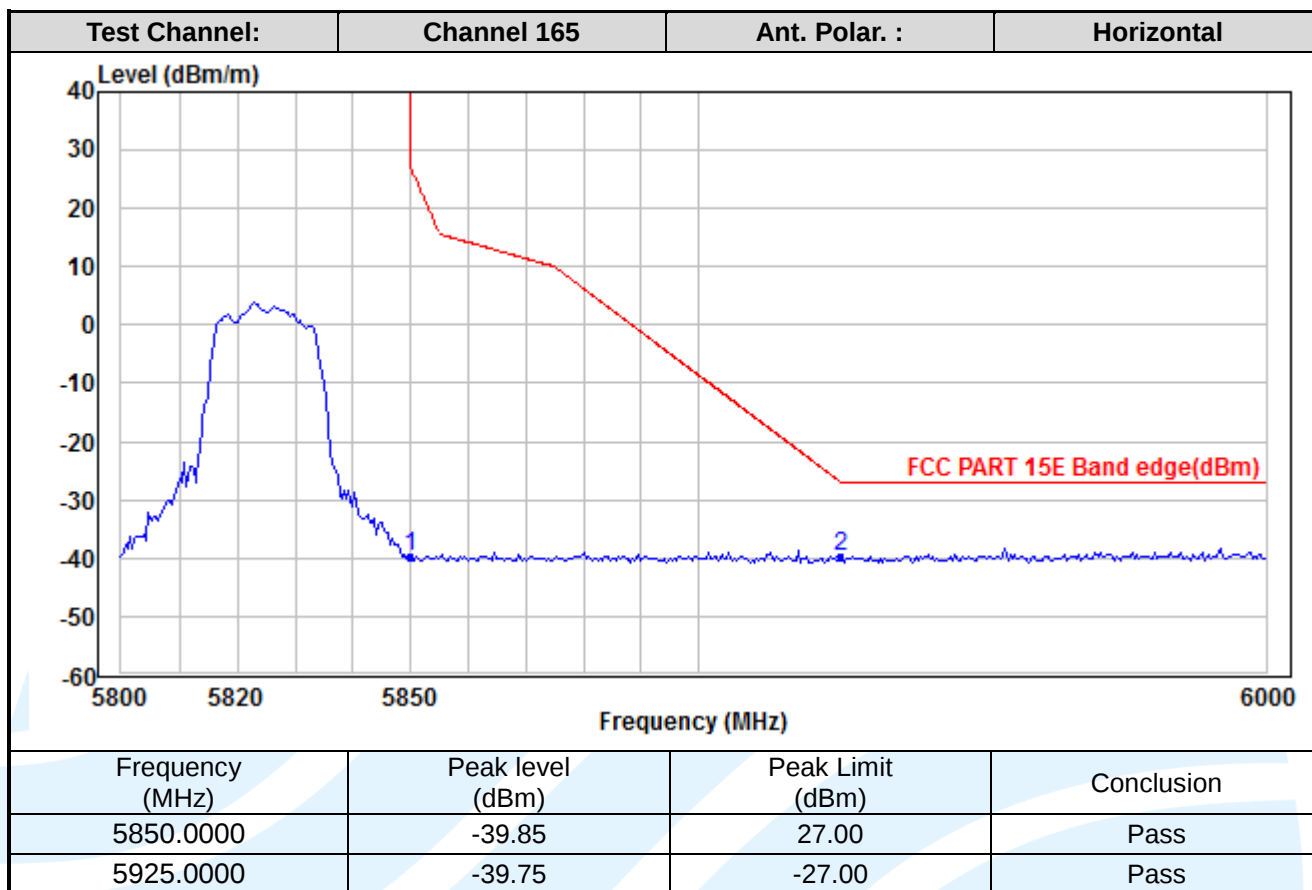
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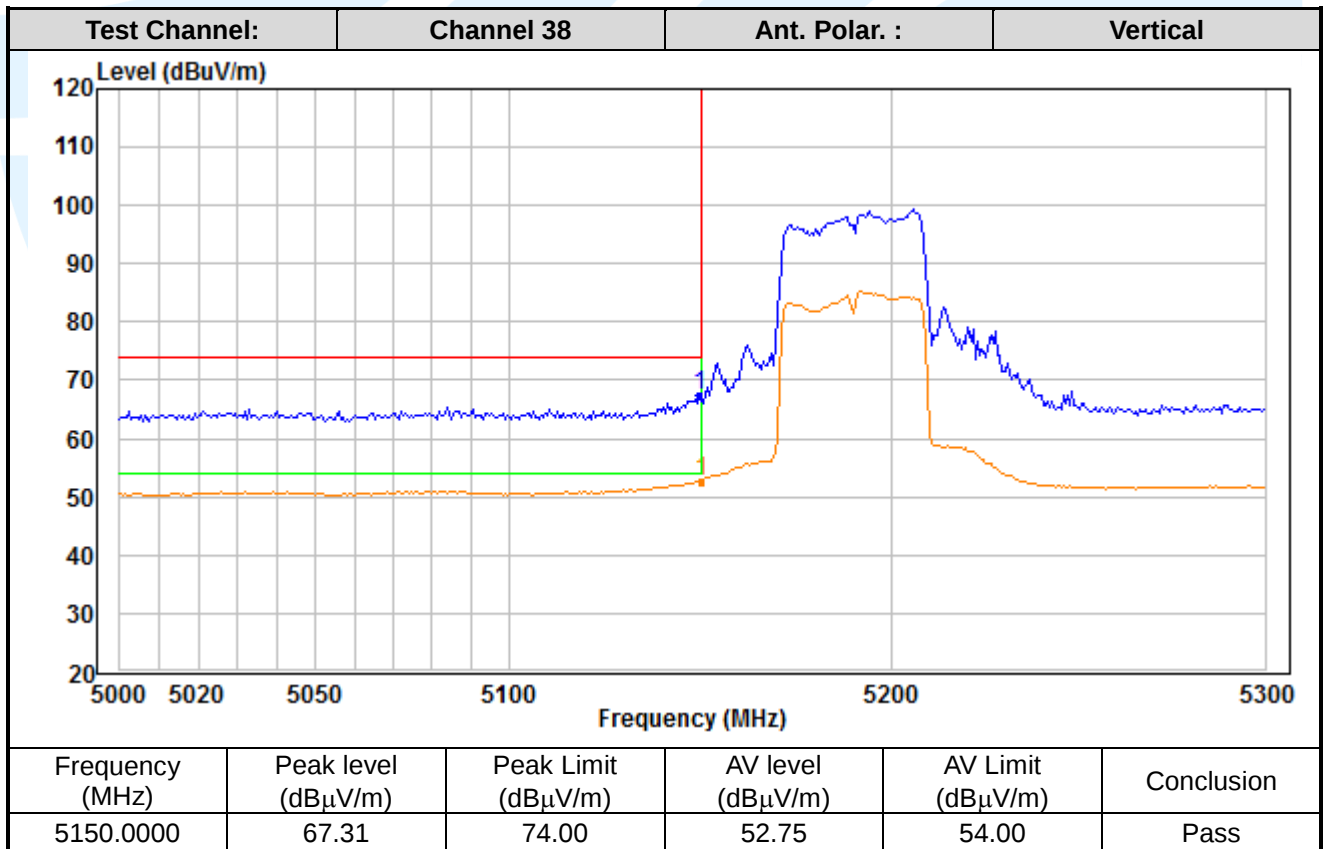
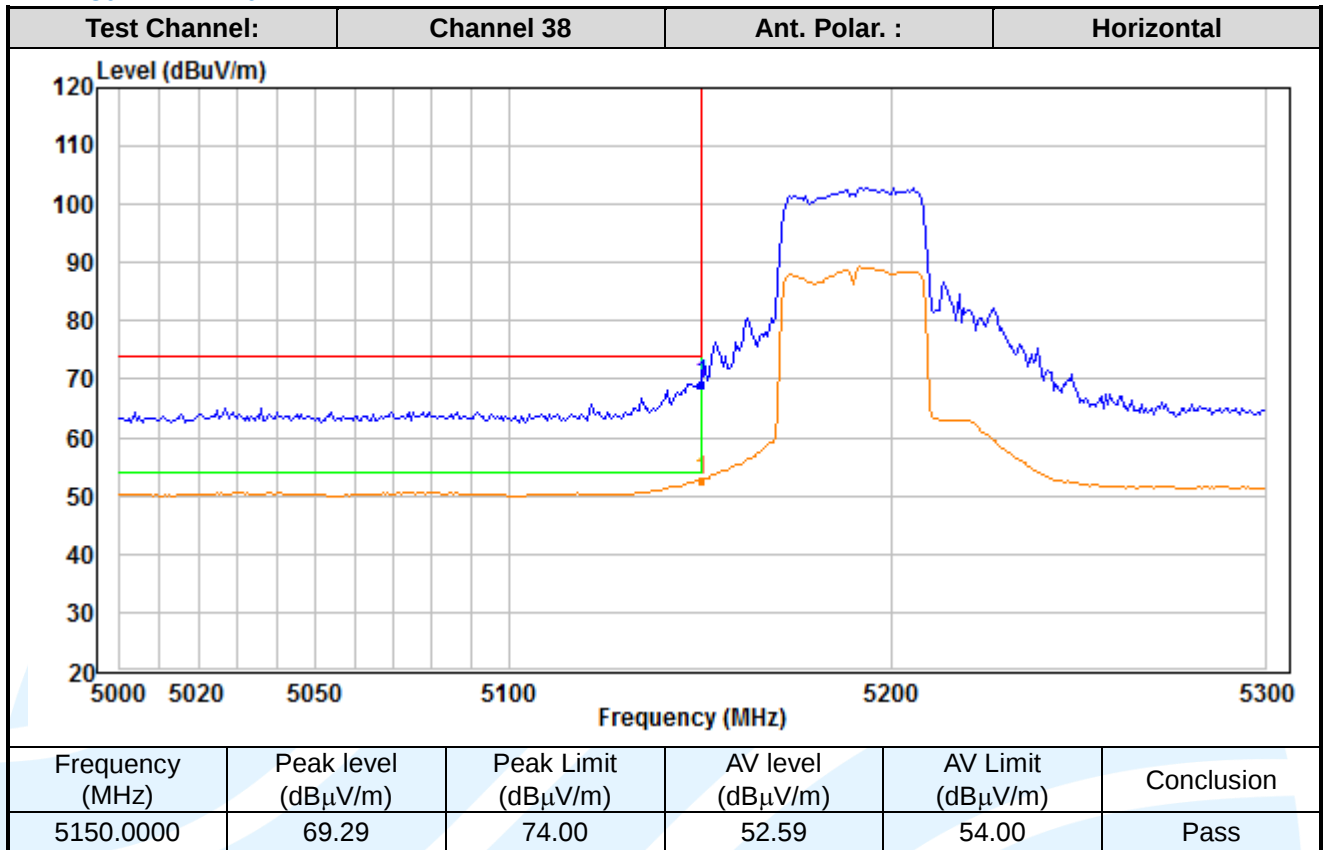
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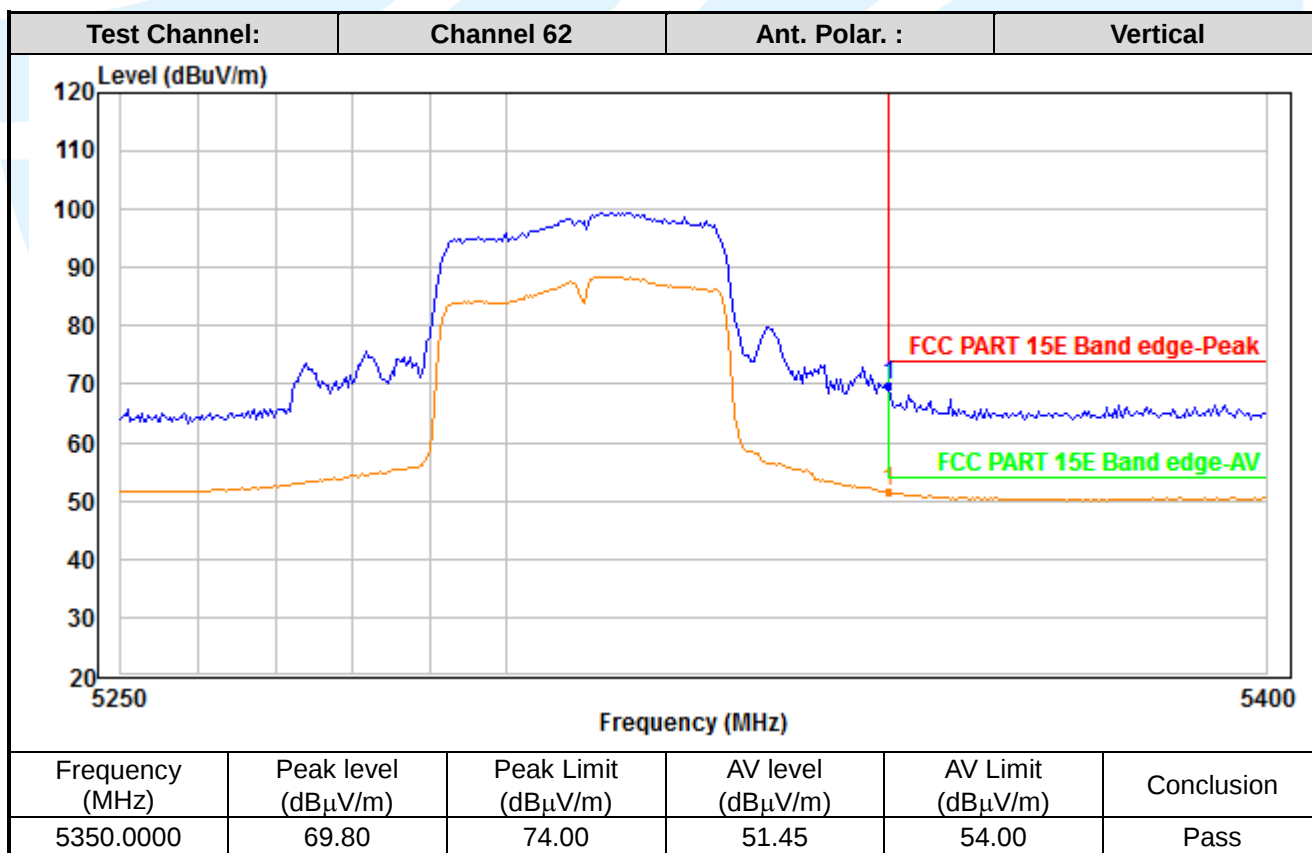
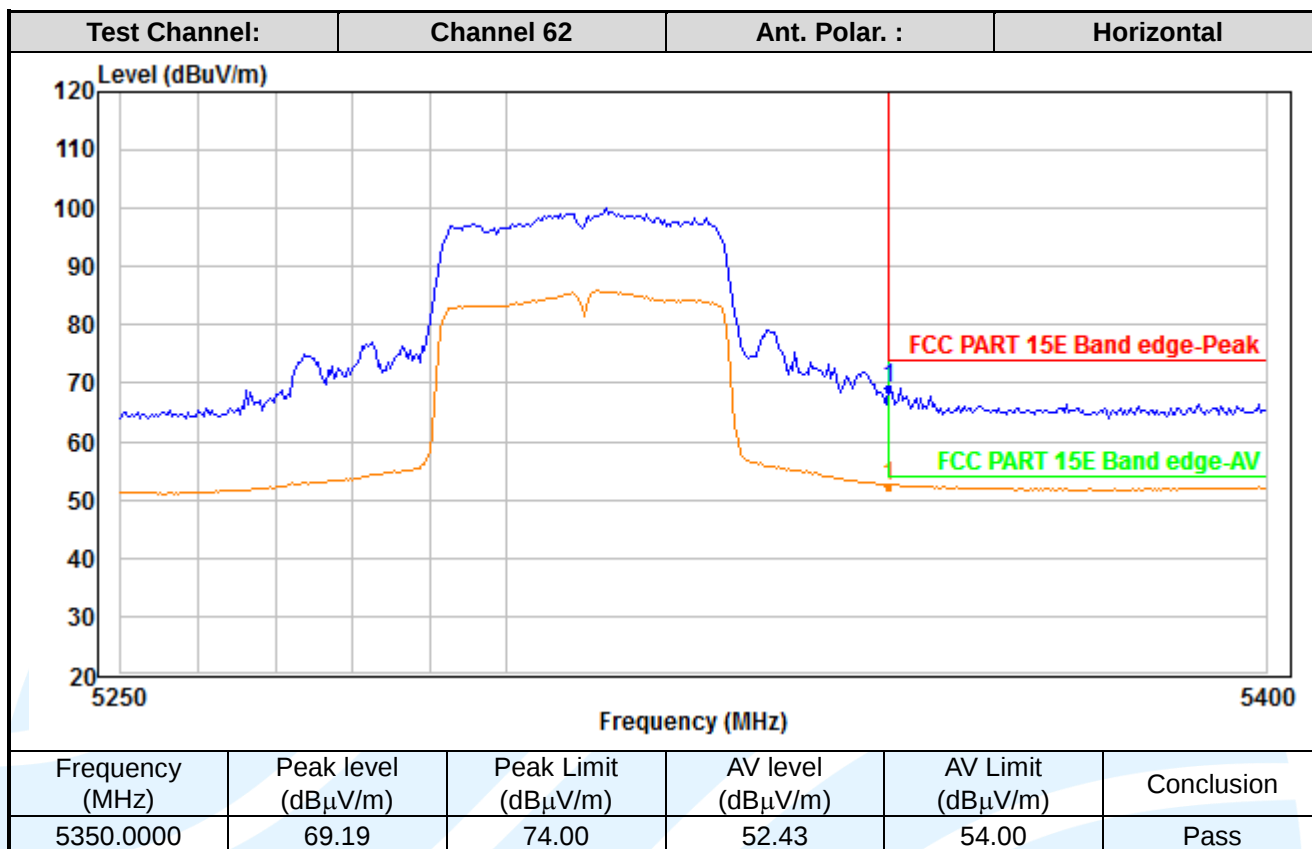
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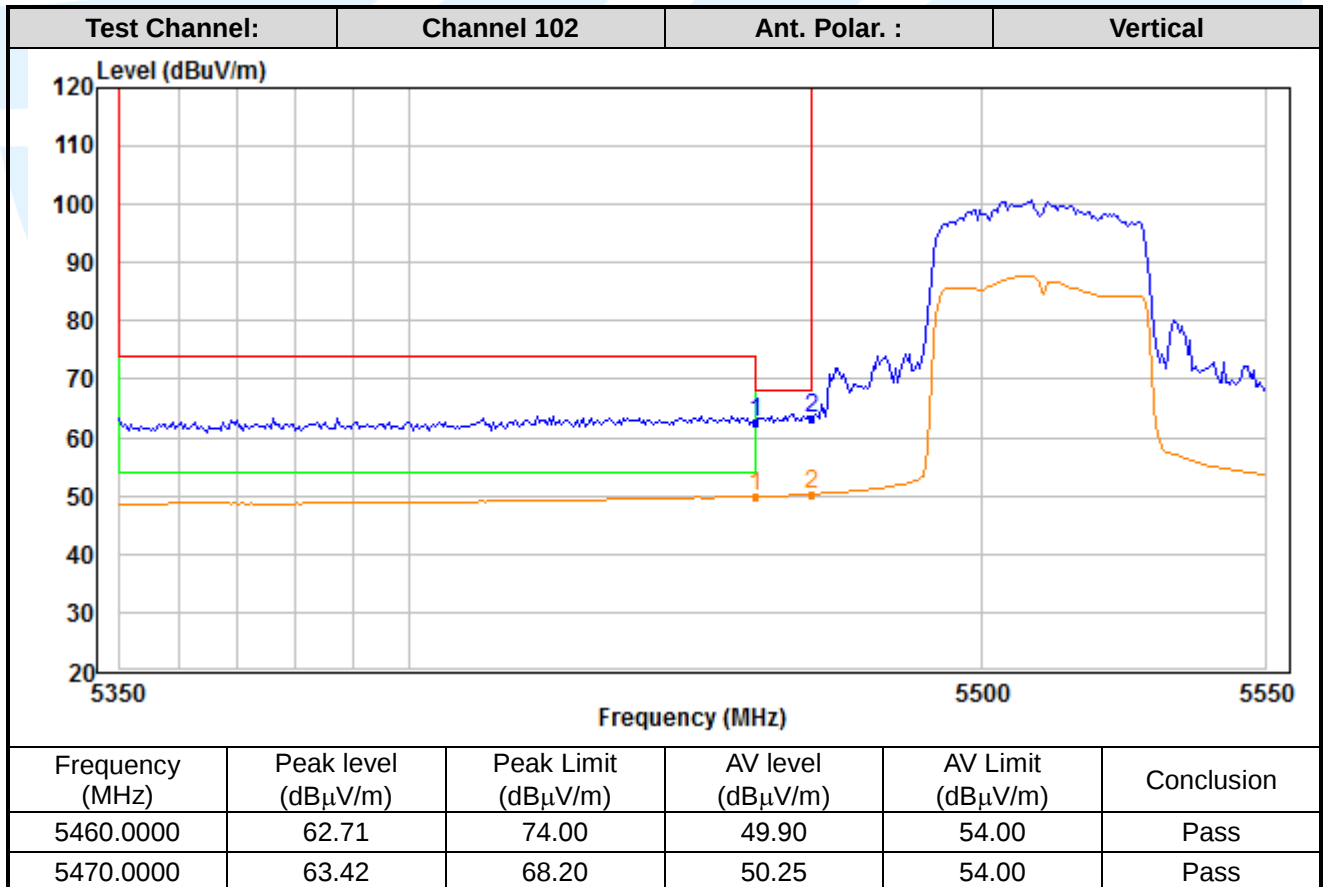
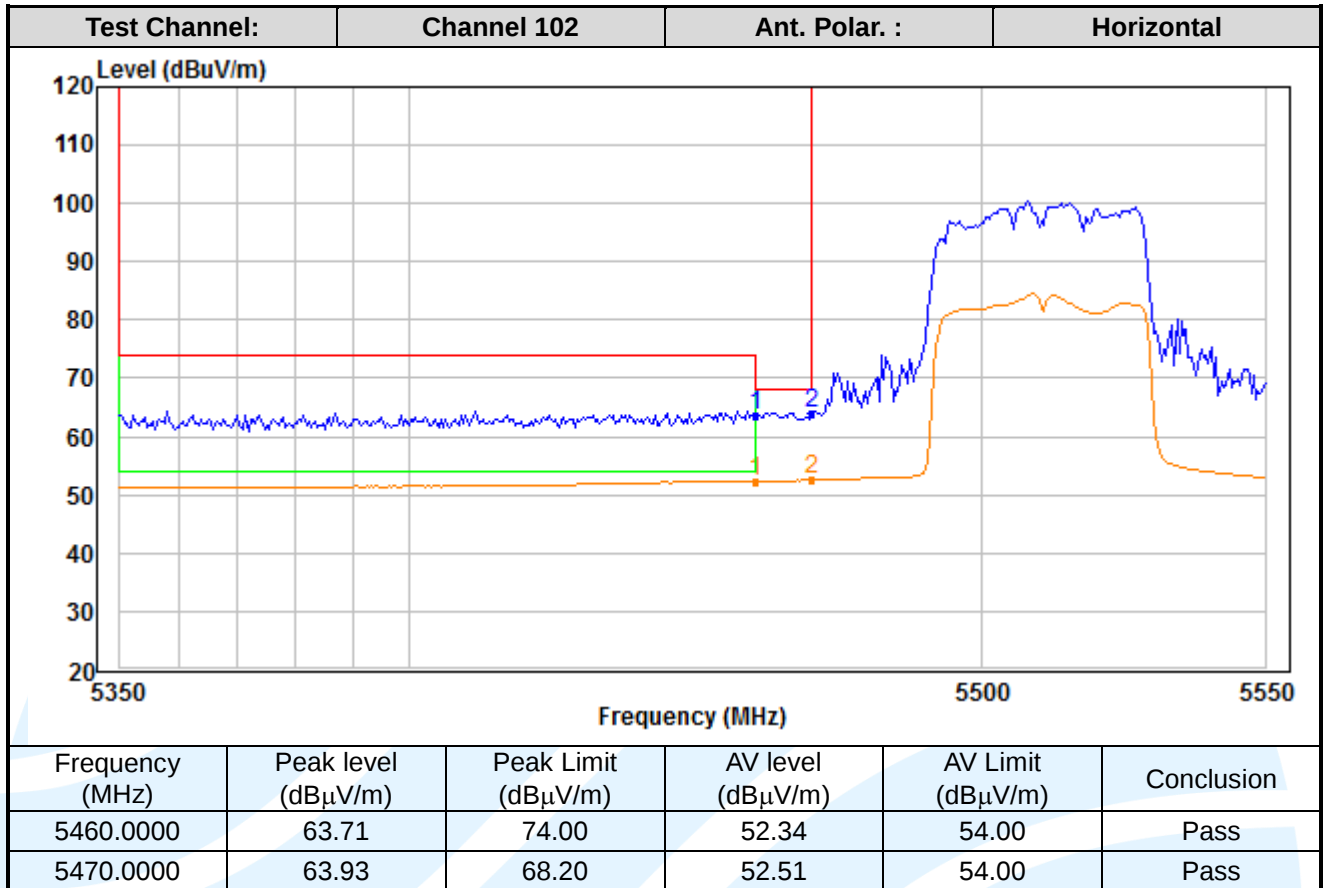
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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

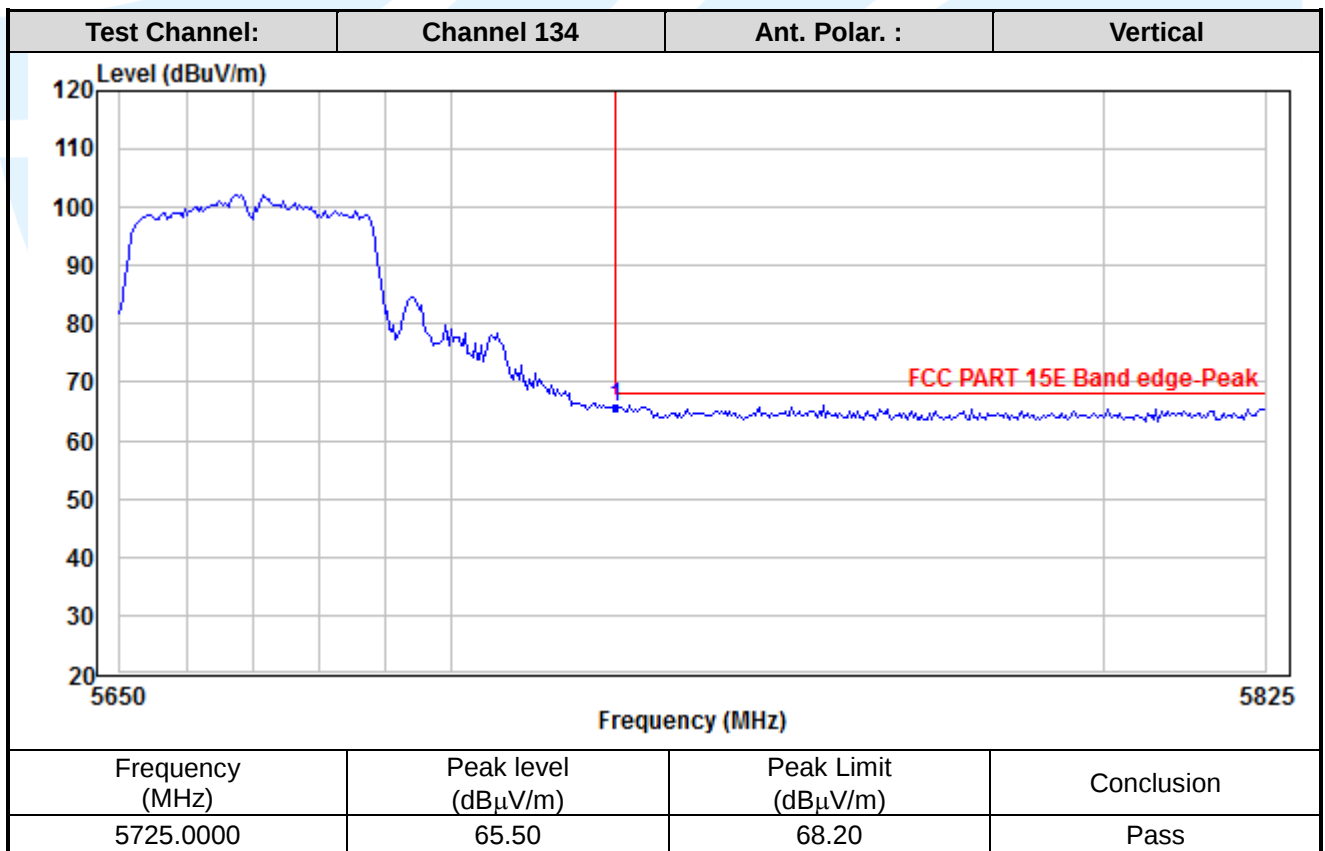
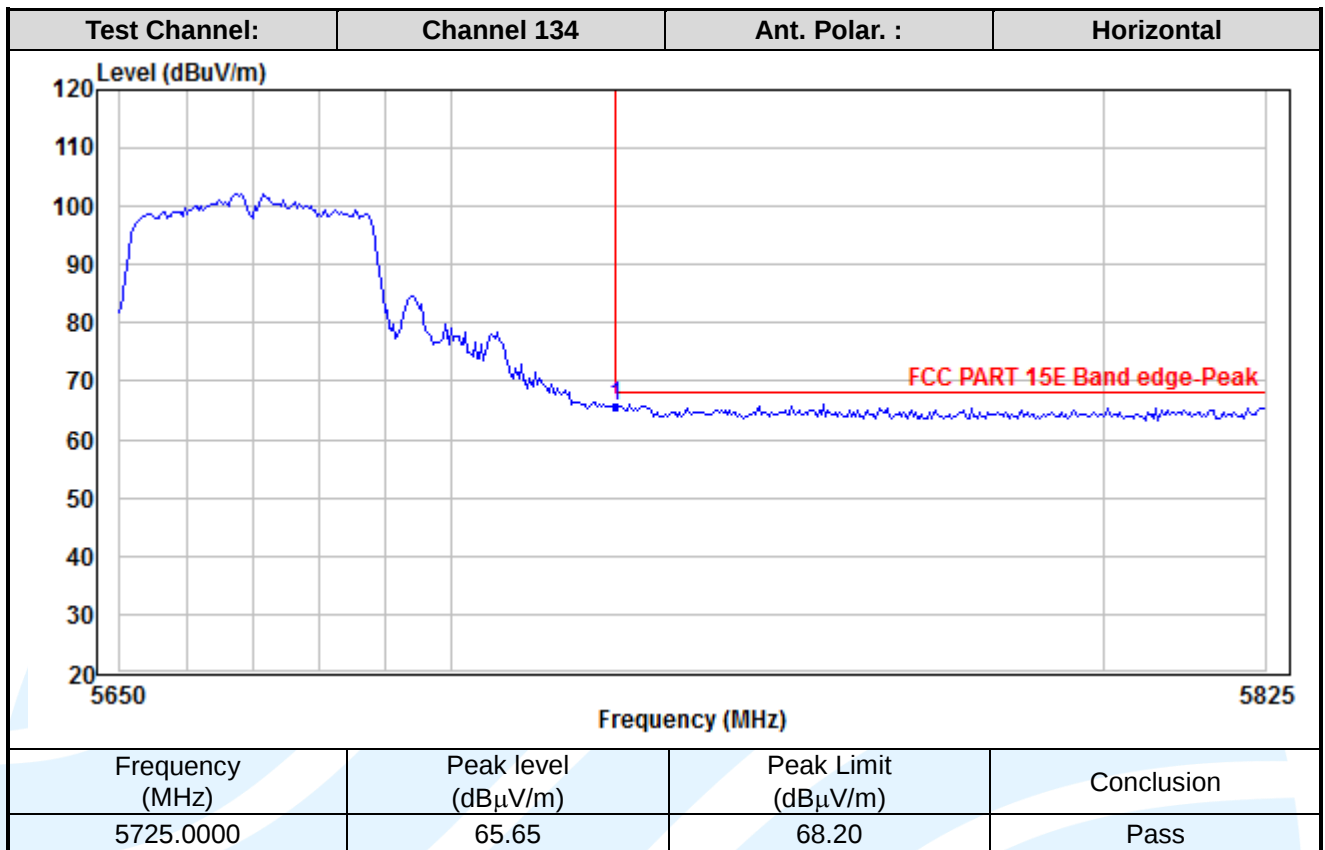
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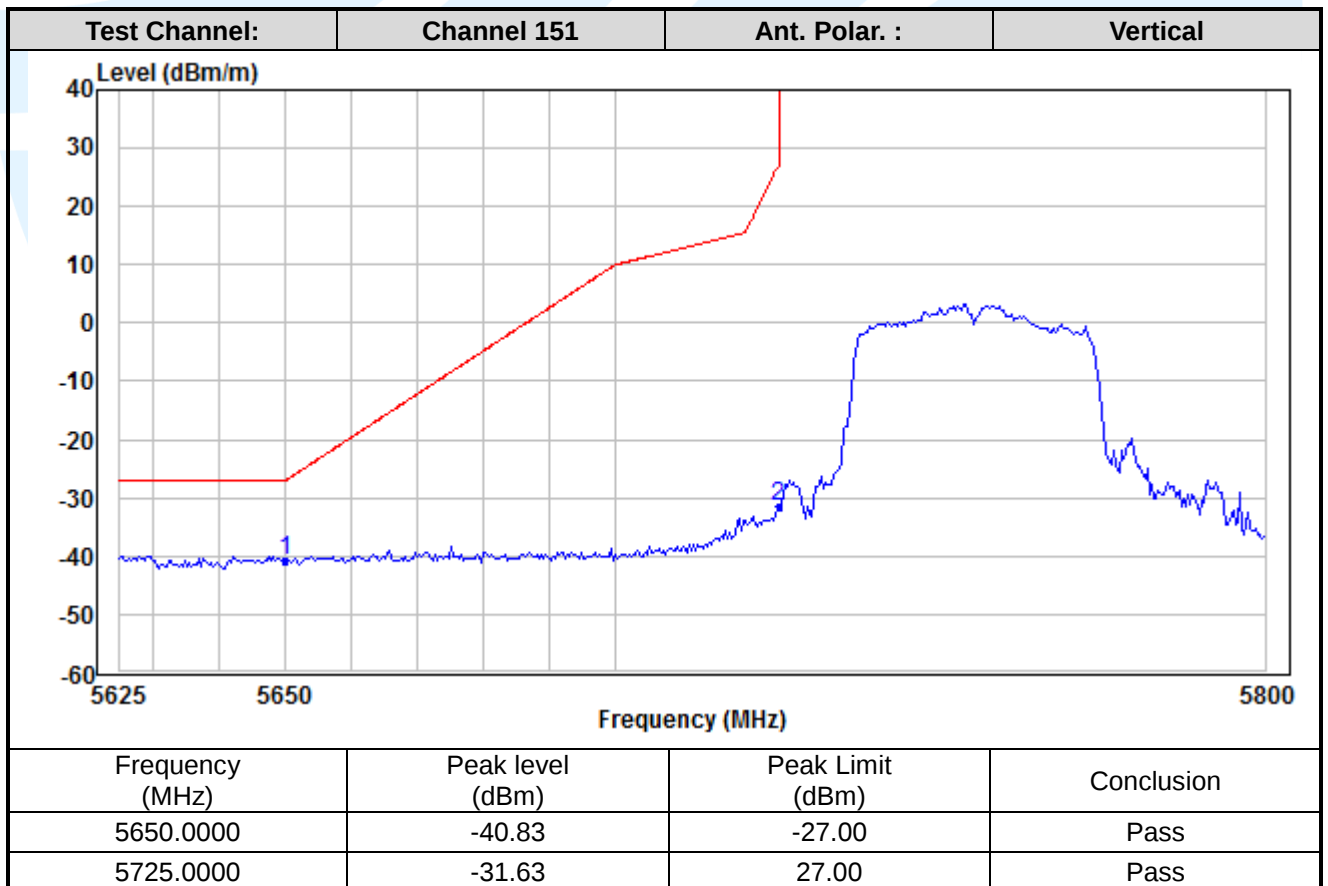
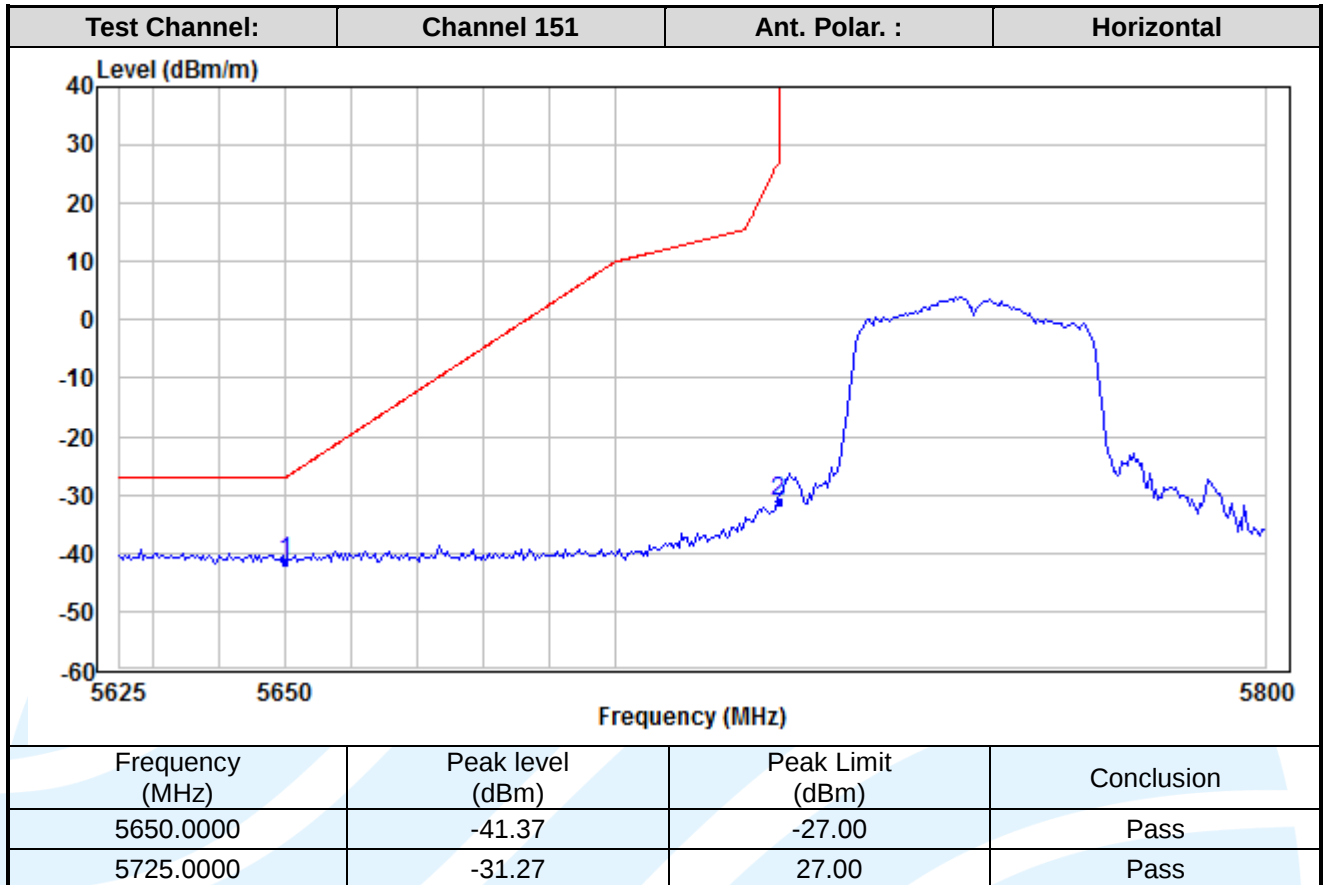
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