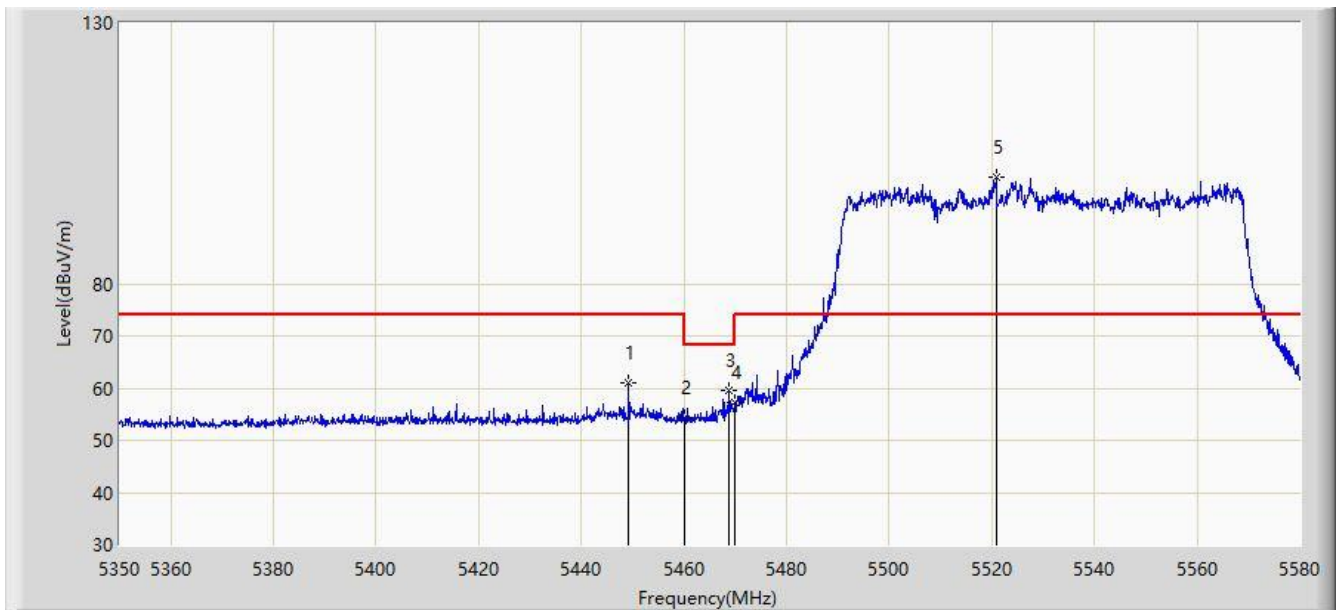


|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                                  | Time: 2020/07/20 - 23:15 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Dillon Diao    |
| Probe: AC2_BBHA9120D_1-18GHz                                               | Polarity: Vertical       |
| EUT: GigaSpire BLAST                                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5530MHz - Beamforming mode |                          |

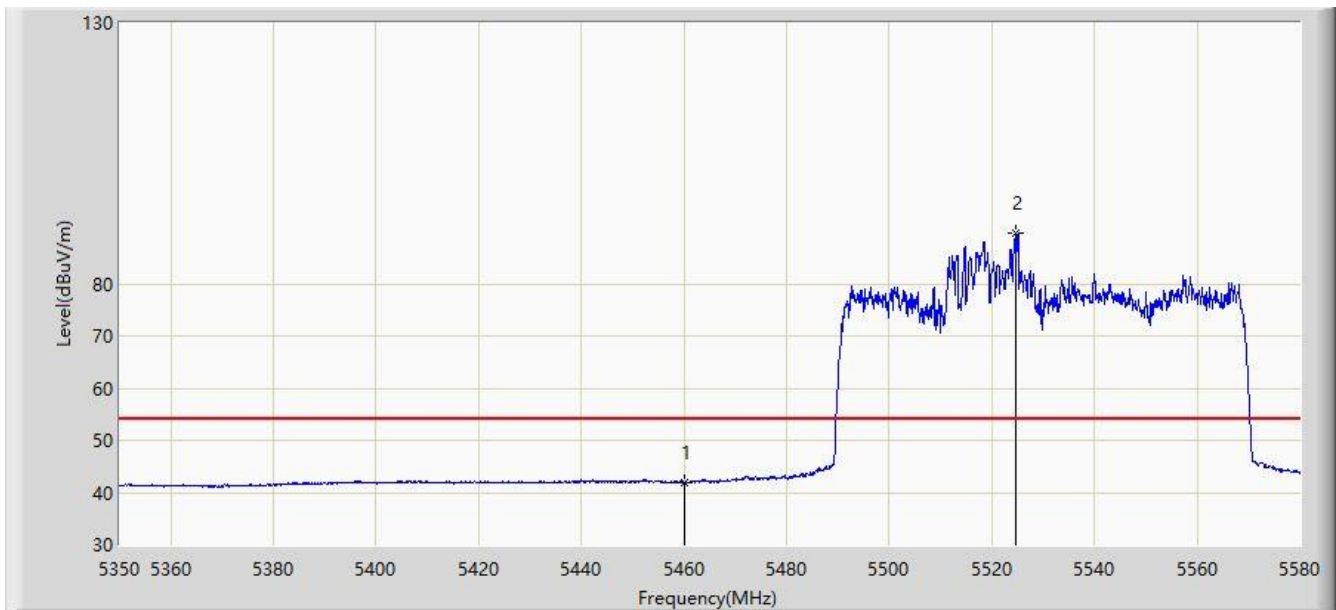


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5449.245        | 60.913                 | 60.561               | -13.087     | 74.000         | 0.352       | PK   |
| 2  |      |      | 5460.000        | 54.207                 | 53.928               | -19.793     | 74.000         | 0.279       | PK   |
| 3  |      |      | 5468.795        | 59.478                 | 59.218               | -8.722      | 68.200         | 0.260       | PK   |
| 4  |      |      | 5470.000        | 57.348                 | 57.091               | -10.852     | 68.200         | 0.257       | PK   |
| 5  |      | *    | 5520.890        | 100.532                | 99.791               | N/A         | N/A            | 0.741       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                                  | Time: 2020/07/20 - 23:16 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Dillon Diao    |
| Probe: AC2_BBHA9120D_1-18GHz                                               | Polarity: Vertical       |
| EUT: GigaSpire BLAST                                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5530MHz - Beamforming mode |                          |

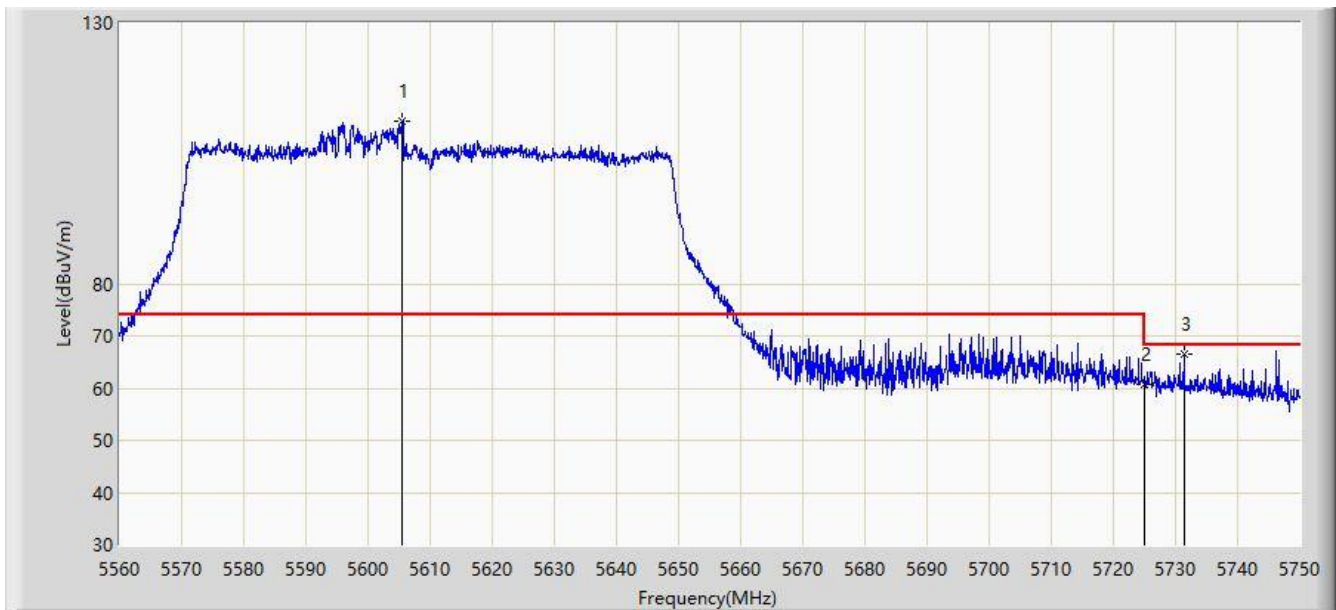


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      |      | 5460.000        | 41.899                 | 41.620               | -12.101     | 54.000         | 0.279       | AV   |
| 2  |      | *    | 5524.685        | 89.696                 | 88.917               | N/A         | N/A            | 0.780       | AV   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                                  | Time: 2020/07/20 - 23:20 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Dillon Diao    |
| Probe: AC2_BBHA9120D_1-18GHz                                               | Polarity: Horizontal     |
| EUT: GigaSpire BLAST                                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5610MHz - Beamforming mode |                          |

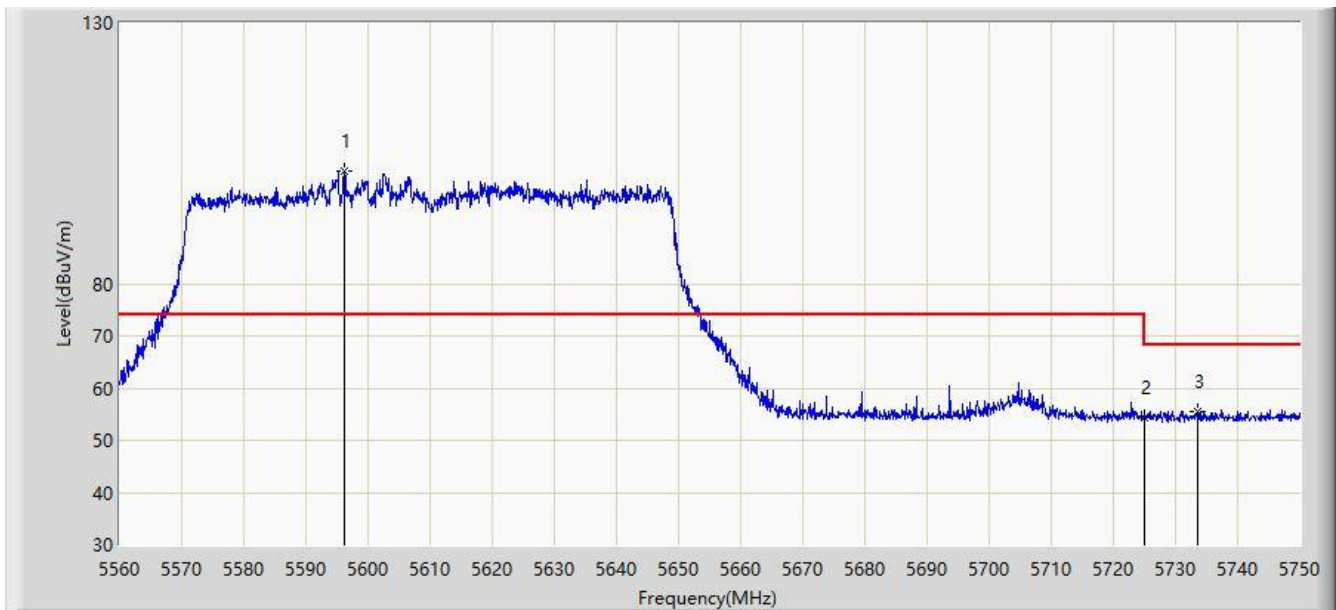


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5605.505        | 111.227                | 110.300              | N/A         | N/A            | 0.927       | PK   |
| 2  |      |      | 5725.000        | 60.754                 | 59.321               | -7.446      | 68.200         | 1.433       | PK   |
| 3  |      |      | 5731.380        | 66.587                 | 65.188               | -1.613      | 68.200         | 1.398       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

|                                                                            |                          |
|----------------------------------------------------------------------------|--------------------------|
| Site: AC2                                                                  | Time: 2020/07/20 - 23:23 |
| Limit: FCC_Part15.209_RE(3m)                                               | Engineer: Dillon Diao    |
| Probe: AC2_BBHA9120D_1-18GHz                                               | Polarity: Vertical       |
| EUT: GigaSpire BLAST                                                       | Power: AC 120V/60Hz      |
| Test Mode: Transmit by 802.11ax-HE80 at channel 5610MHz - Beamforming mode |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-------------|----------------|-------------|------|
| 1  |      | *    | 5596.290        | 101.502                | 100.695              | N/A         | N/A            | 0.806       | PK   |
| 2  |      |      | 5725.000        | 54.409                 | 52.976               | -13.791     | 68.200         | 1.433       | PK   |
| 3  |      |      | 5733.660        | 55.546                 | 54.157               | -12.654     | 68.200         | 1.390       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

## 5.9. AC Conducted Emissions Measurement

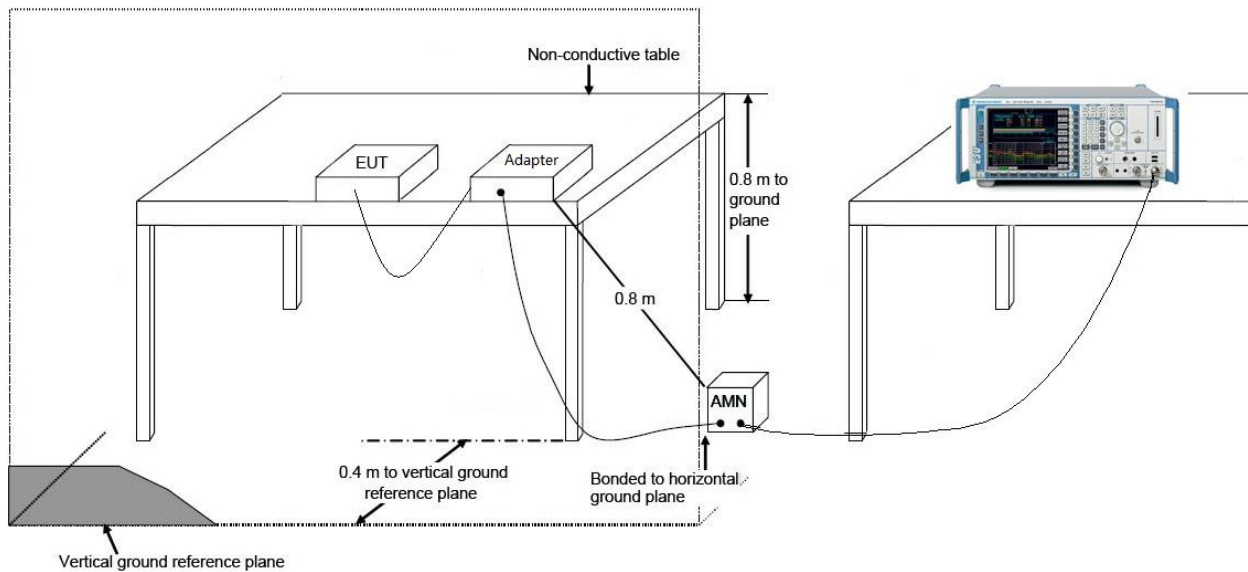
### 5.9.1. Test Limit

| FCC Part 15.207 Limits |                 |                 |
|------------------------|-----------------|-----------------|
| Frequency (MHz)        | QP (dB $\mu$ V) | AV (dB $\mu$ V) |
| 0.15 - 0.50            | 66 - 56         | 56 - 46         |
| 0.50 - 5.0             | 56              | 46              |
| 5.0 - 30               | 60              | 50              |

Note 1: The lower limit shall apply at the transition frequencies.

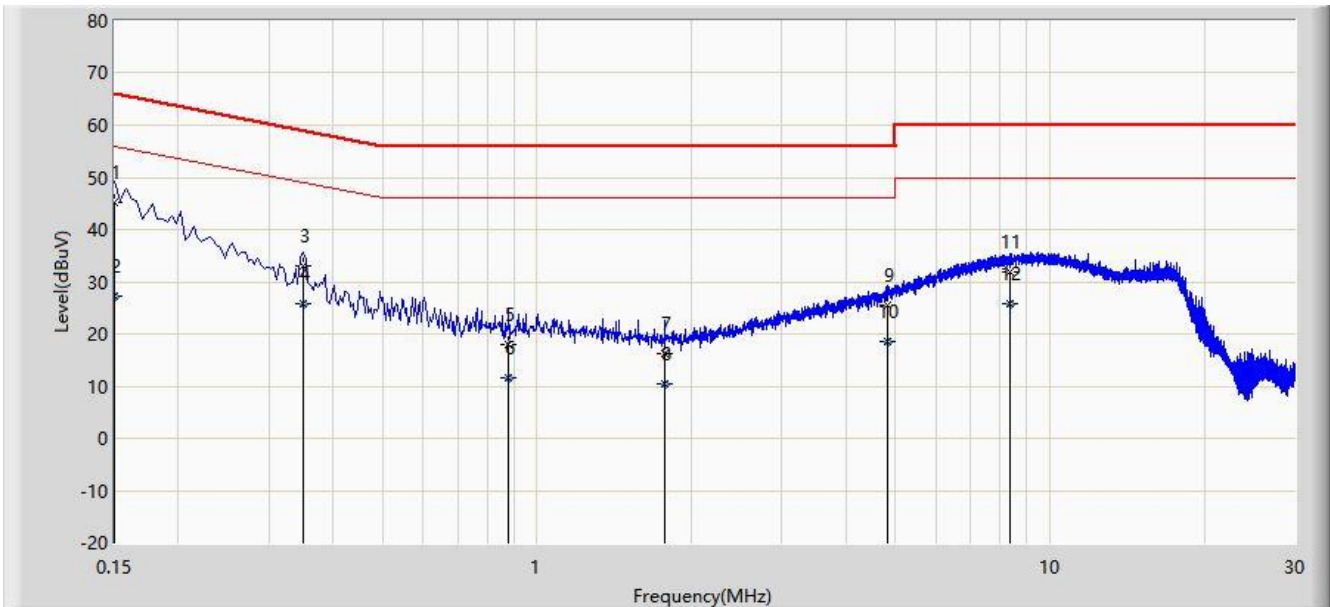
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 5.9.2. Test Setup



### 5.9.3.Test Result

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: SR2                                | Time: 2020/08/13 - 03:17 |
| Limit: FCC_Part15.207_CE_AC Power_ClassB | Engineer: Dillon Diao    |
| Probe: ENV216_101683_Filter On           | Polarity: Line           |
| EUT: GigaSpire BLAST                     | Power: AC 120V/60Hz      |
| Note: Test Mode 1                        |                          |

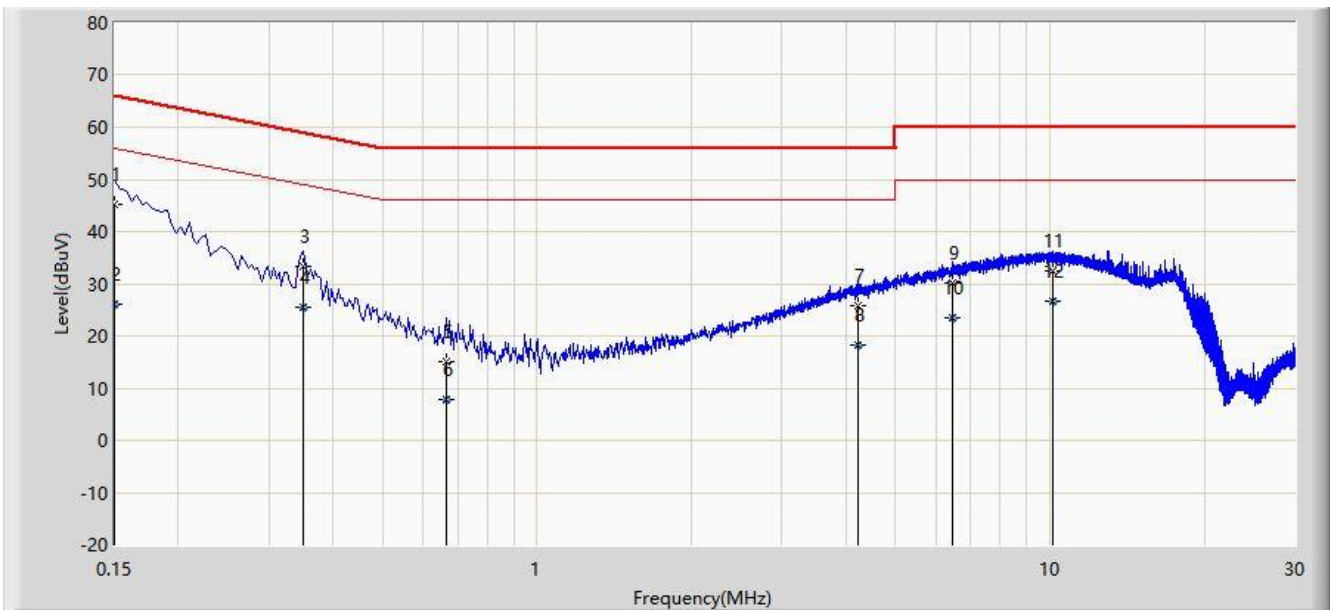


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor | Type |
|----|------|------|-----------------|----------------------|----------------------|-------------|--------------|--------|------|
| 1  |      | *    | 0.150           | 45.341               | 35.728               | -20.659     | 66.000       | 9.613  | QP   |
| 2  |      |      | 0.150           | 27.298               | 17.685               | -28.702     | 56.000       | 9.613  | AV   |
| 3  |      |      | 0.350           | 32.999               | 23.330               | -25.964     | 58.962       | 9.668  | QP   |
| 4  |      |      | 0.350           | 25.829               | 16.160               | -23.134     | 48.962       | 9.668  | AV   |
| 5  |      |      | 0.882           | 17.905               | 8.164                | -38.095     | 56.000       | 9.740  | QP   |
| 6  |      |      | 0.882           | 11.695               | 1.955                | -34.305     | 46.000       | 9.740  | AV   |
| 7  |      |      | 1.774           | 16.352               | 6.593                | -39.648     | 56.000       | 9.759  | QP   |
| 8  |      |      | 1.774           | 10.305               | 0.546                | -35.695     | 46.000       | 9.759  | AV   |
| 9  |      |      | 4.818           | 25.495               | 15.639               | -30.505     | 56.000       | 9.856  | QP   |
| 10 |      |      | 4.818           | 18.636               | 8.779                | -27.364     | 46.000       | 9.856  | AV   |
| 11 |      |      | 8.350           | 31.853               | 21.853               | -28.147     | 60.000       | 10.000 | QP   |
| 12 |      |      | 8.350           | 25.711               | 15.711               | -24.289     | 50.000       | 10.000 | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

|                                          |                          |
|------------------------------------------|--------------------------|
| Site: SR2                                | Time: 2020/08/13 - 03:21 |
| Limit: FCC_Part15.207_CE_AC Power_ClassB | Engineer: Dillon Diao    |
| Probe: ENV216_101683_Filter On           | Polarity: Neutral        |
| EUT: GigaSpire BLAST                     | Power: AC 120V/60Hz      |
| Note: Test Mode 1                        |                          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV) | Factor | Type |
|----|------|------|-----------------|----------------------|----------------------|-------------|--------------|--------|------|
| 1  |      | *    | 0.150           | 45.078               | 35.475               | -20.922     | 66.000       | 9.603  | QP   |
| 2  |      |      | 0.150           | 26.217               | 16.614               | -29.783     | 56.000       | 9.603  | AV   |
| 3  |      |      | 0.350           | 33.472               | 23.814               | -25.490     | 58.962       | 9.658  | QP   |
| 4  |      |      | 0.350           | 25.609               | 15.950               | -23.354     | 48.962       | 9.658  | AV   |
| 5  |      |      | 0.666           | 14.986               | 5.276                | -41.014     | 56.000       | 9.710  | QP   |
| 6  |      |      | 0.666           | 7.952                | -1.758               | -38.048     | 46.000       | 9.710  | AV   |
| 7  |      |      | 4.222           | 25.802               | 15.973               | -30.198     | 56.000       | 9.829  | QP   |
| 8  |      |      | 4.222           | 18.319               | 8.490                | -27.681     | 46.000       | 9.829  | AV   |
| 9  |      |      | 6.458           | 30.237               | 20.317               | -29.763     | 60.000       | 9.920  | QP   |
| 10 |      |      | 6.458           | 23.608               | 13.687               | -26.392     | 50.000       | 9.920  | AV   |
| 11 |      |      | 10.134          | 32.575               | 22.519               | -27.425     | 60.000       | 10.056 | QP   |
| 12 |      |      | 10.134          | 26.746               | 16.690               | -23.254     | 50.000       | 10.056 | AV   |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

## 6. Conclusion

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

---

The End



## **Appendix A - Test Setup Photograph**

Refer to “2105RSU028-UT” file.

## **Appendix B - EUT Photograph**

Refer to “2105RSU028-UE” file.