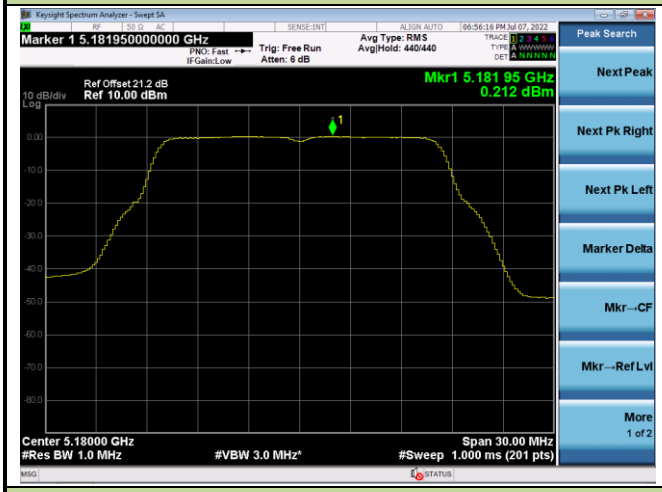
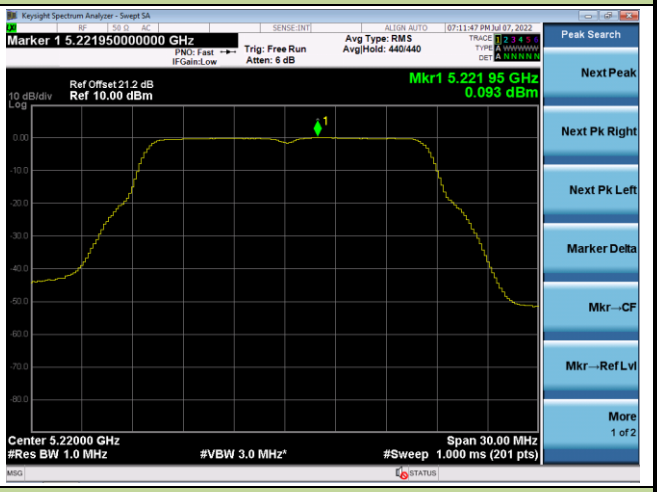
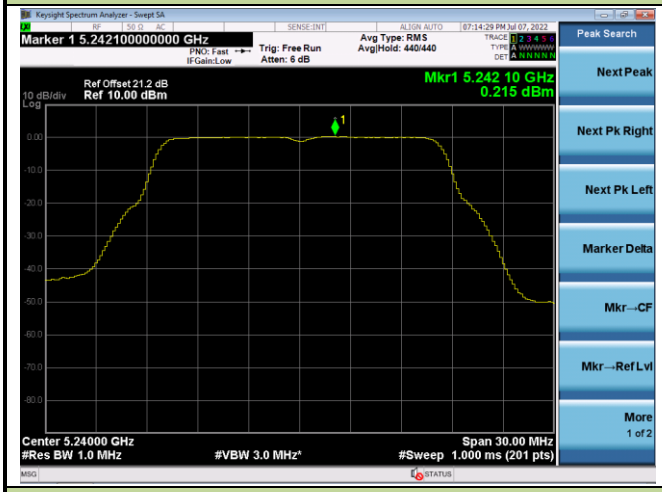
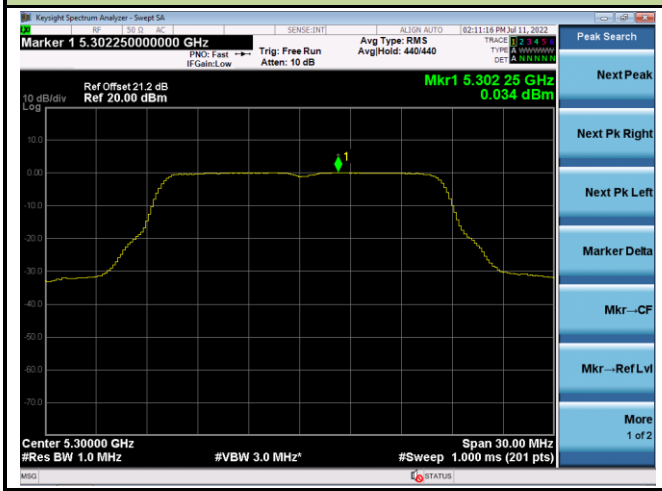
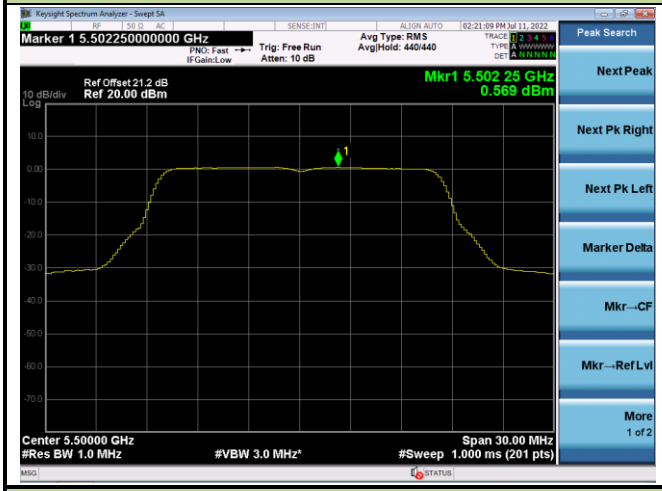
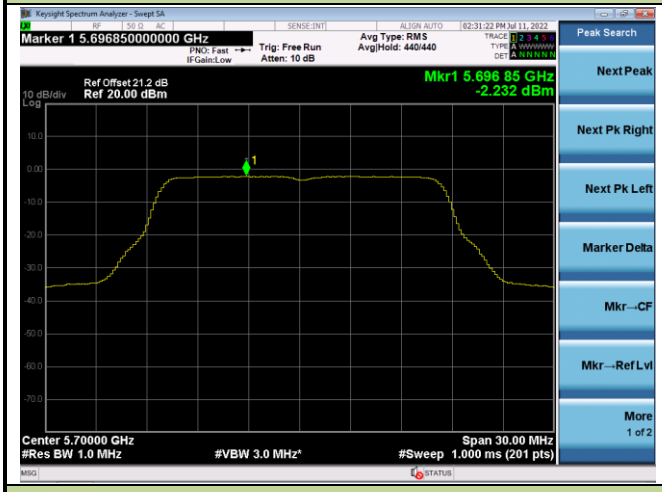
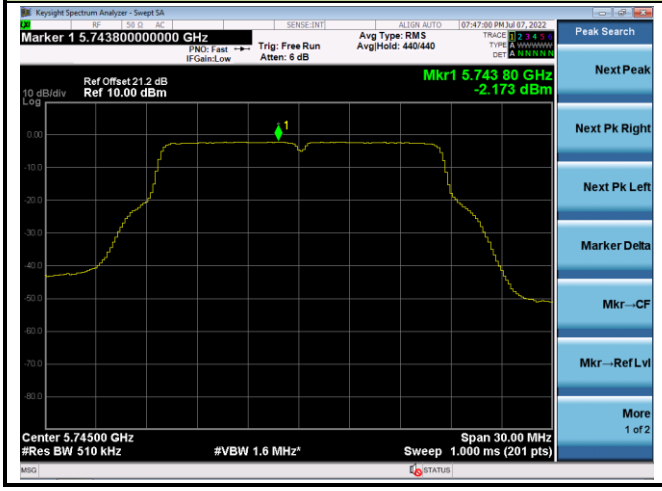
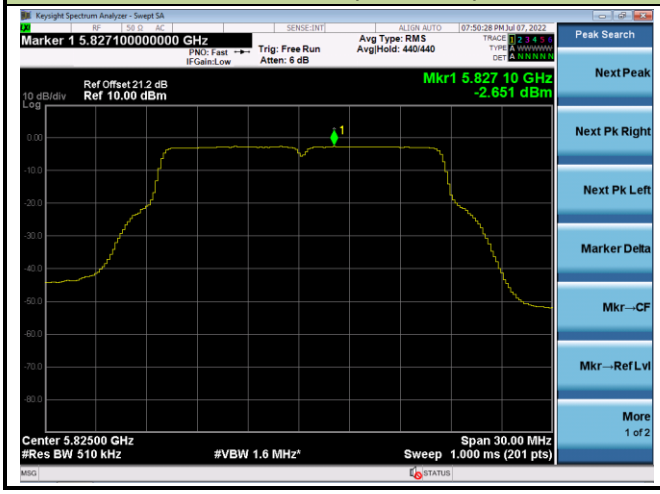
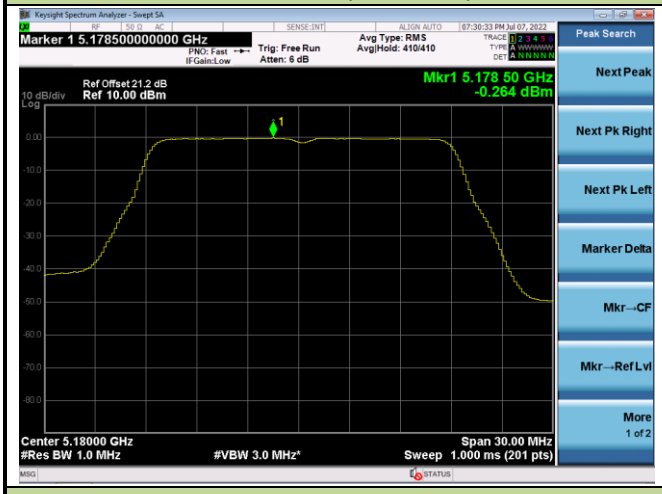
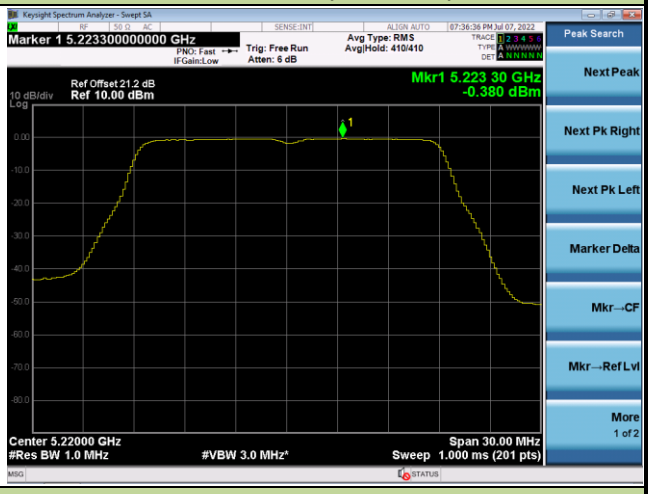
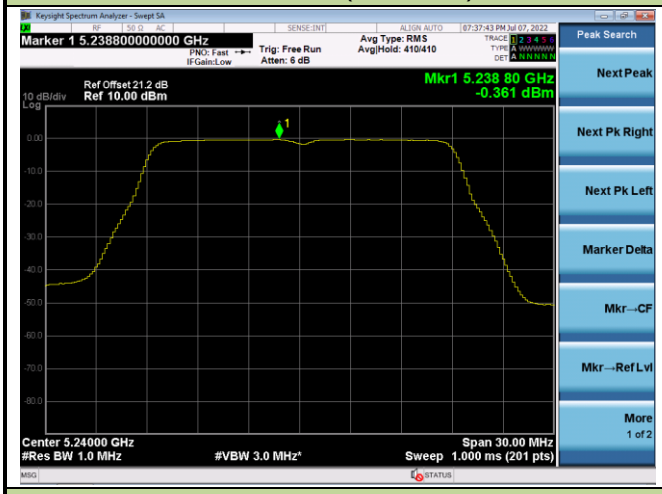
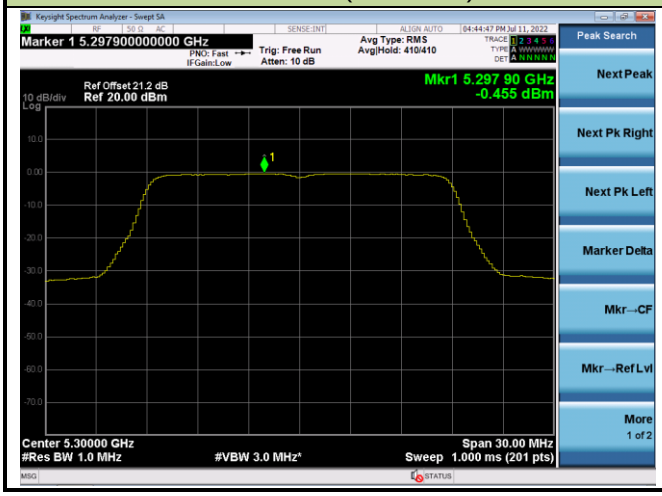
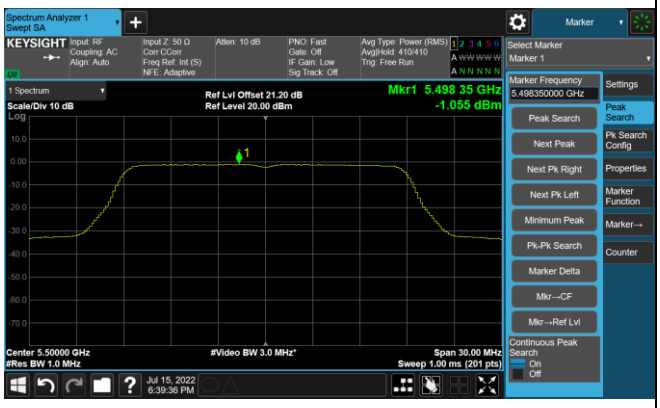
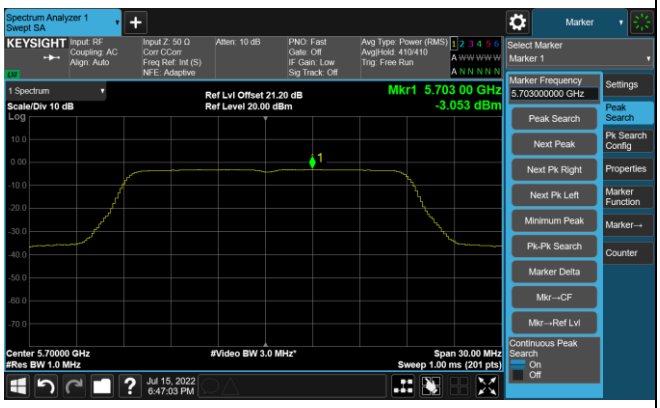
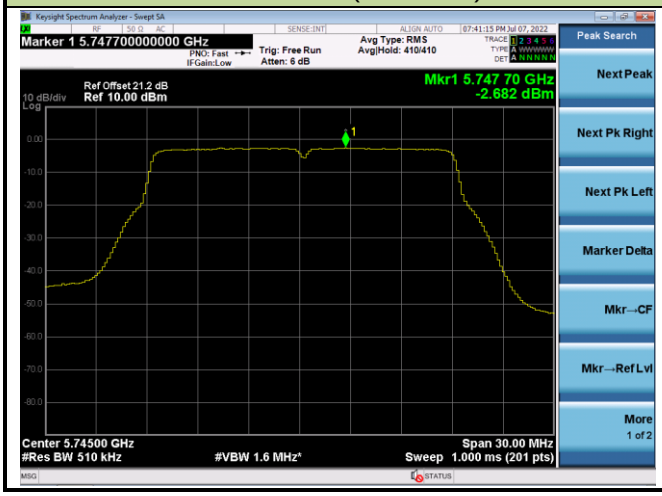
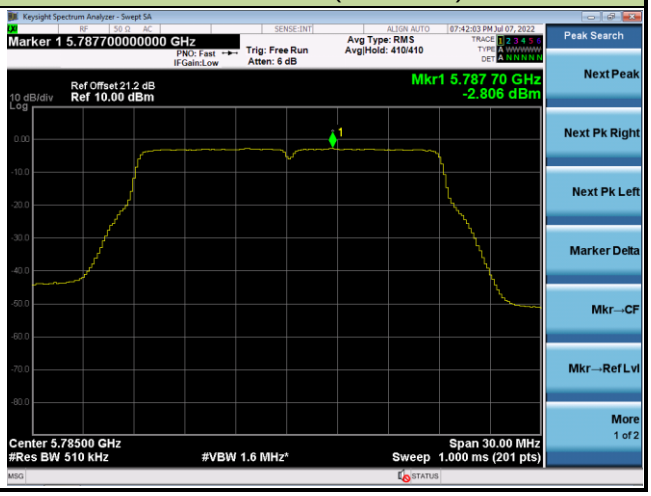
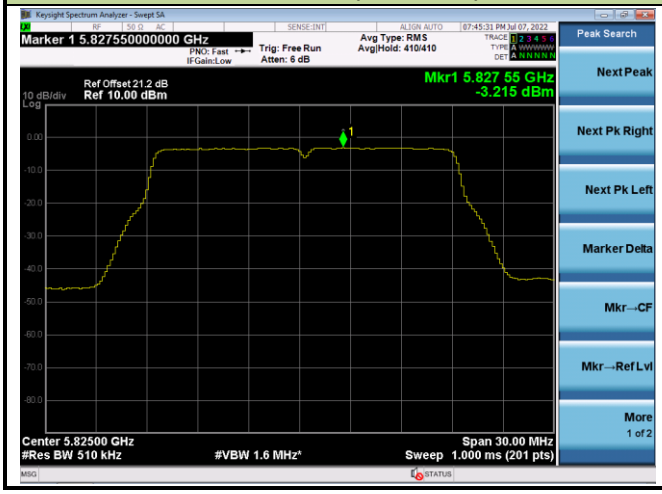
| 802.11a Power Spectral Density – Ant 1 | |
|---|---|
| Channel 36 (5180MHz) | Channel 44 (5220MHz) |
|  |  |
| Channel 48 (5240MHz) | Channel 52 (5260MHz) |
|  |  |
| Channel 60 (5300MHz) | Channel 64 (5320MHz) |
|  |  |

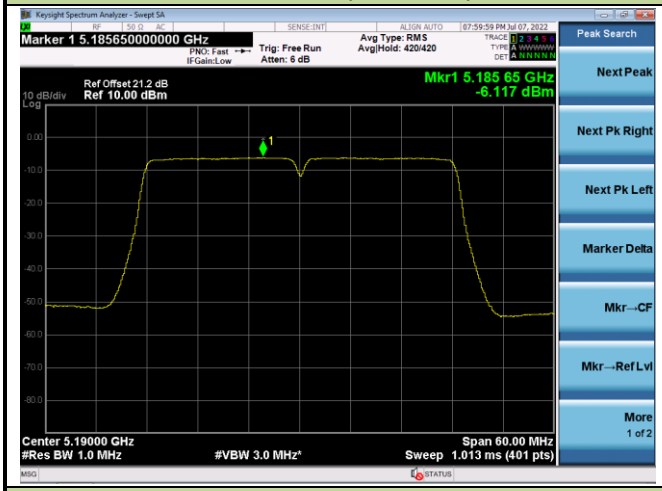
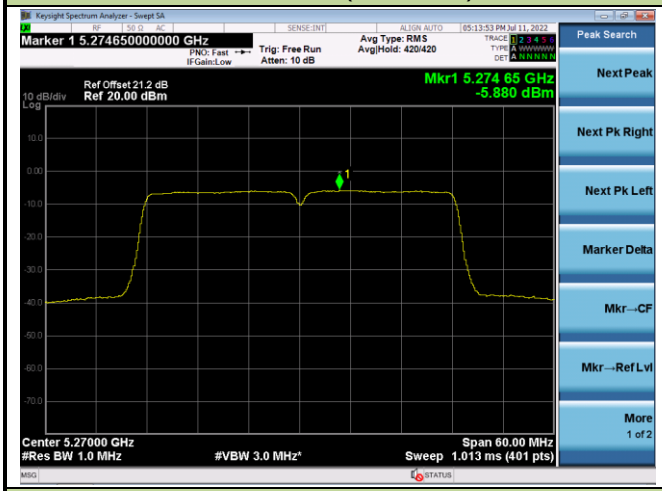
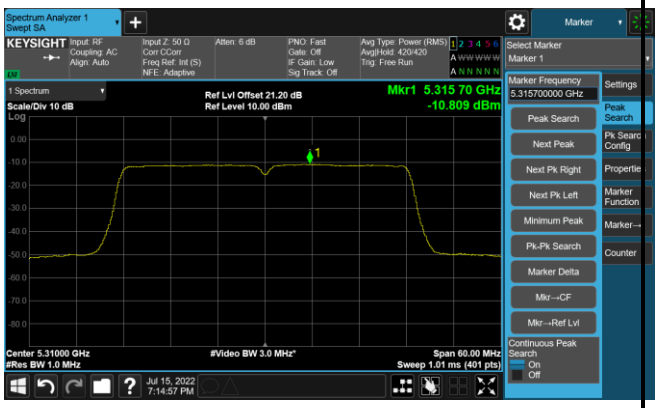
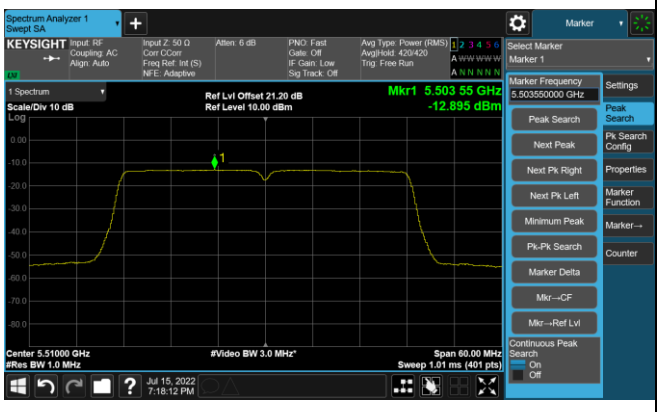
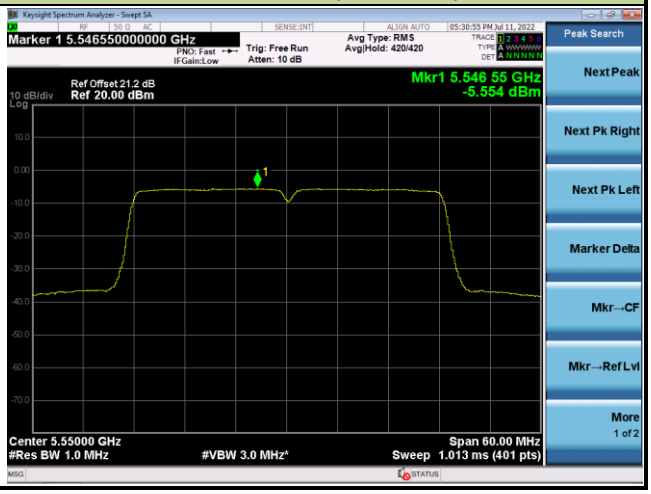
| 802.11a Power Spectral Density – Ant 1 | |
|---|---|
| Channel 100 (5500MHz) | Channel 116 (5580MHz) |
|  |  |
| Channel 140 (5700MHz) | Channel 144 (5720MHz) |
|  |  |
| Channel 149 (5745MHz) | Channel 157 (5785MHz) |
|  |  |

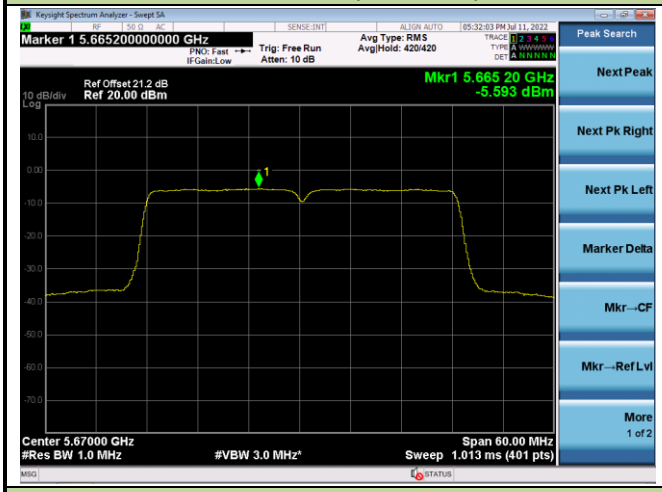
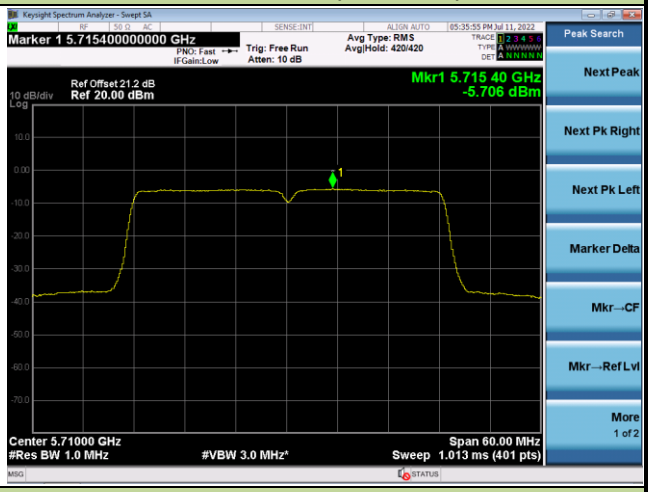
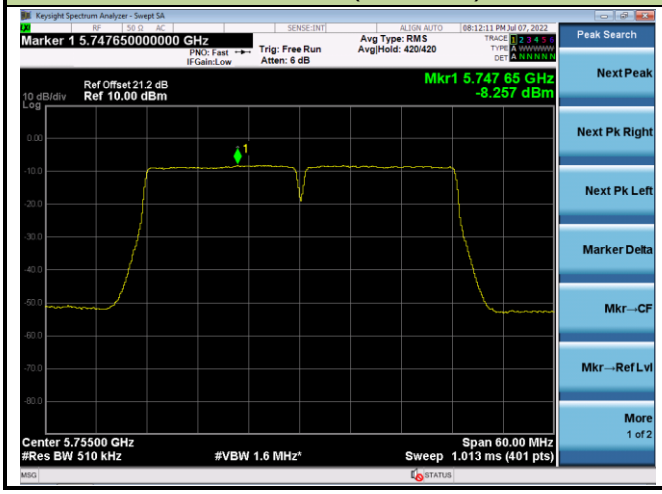
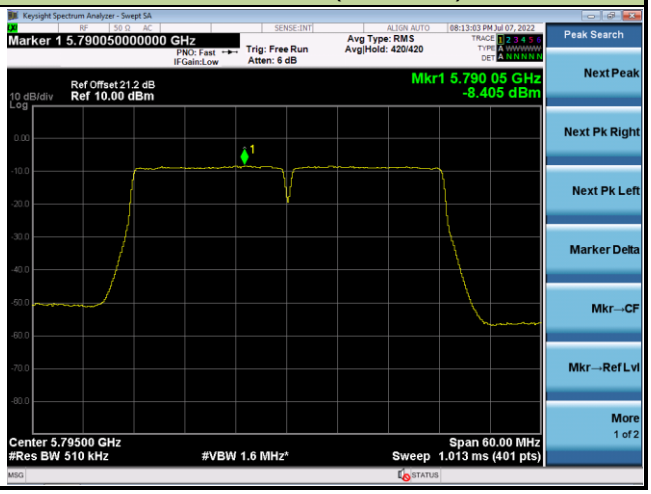
| Channel 165 (5825MHz) | |
|---|---|
|  | |

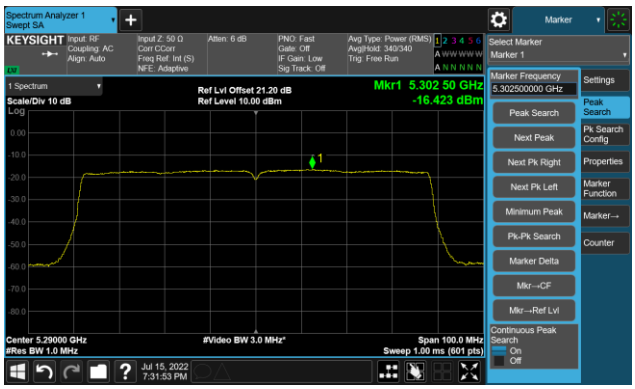
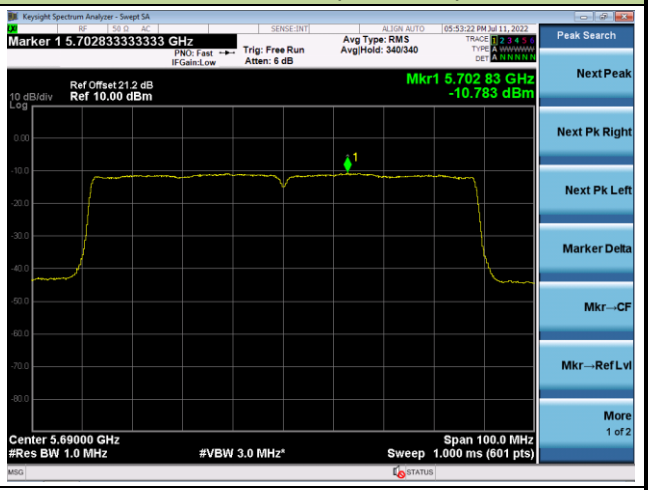
| 802.11ac-VHT20 Power Spectral Density – Ant 1 | |
|---|---|
| Channel 36 (5180MHz) | Channel 44 (5220MHz) |
|  |  |
| Channel 48 (5240MHz) | Channel 52 (5260MHz) |
|  |  |
| Channel 60 (5300MHz) | Channel 64 (5320MHz) |
|  |  |

| 802.11ac-VHT20 Power Spectral Density – Ant 1 | |
|---|---|
| Channel 100 (5500MHz) | Channel 116 (5580MHz) |
|  |  |
| Channel 140 (5700MHz) | Channel 149 (5720MHz) |
|  |  |
| Channel 149 (5745MHz) | Channel 157 (5785MHz) |
|  |  |

| Channel 165 (5825MHz) | |
|---|---|
|  | |

| 802.11ac-VHT40 Power Spectral Density – Ant 1 | |
|---|---|
| Channel 38 (5190MHz) | Channel 46 (5230MHz) |
|  |  |
| Channel 54 (5270MHz) | Channel 62 (5310MHz) |
|  |  |
| Channel 102 (5510MHz) | Channel 110 (5550MHz) |
|  |  |

| Channel 134 (5670MHz) | Channel 142 (5710MHz) |
|---|---|
|  |  |
| **Channel 151 (5755MHz)** | **Channel 159 (5795MHz)** |
|  |  |

| 802.11ac-VHT80 Power Spectral Density – Ant 1 | |
|---|---|
| Channel 42 (5210MHz) | Channel 58 (5290MHz) |
|  |  |
| Channel 122 (5610MHz) | Channel 155 (5690MHz) |
|  |  |
| Channel 155 (5775MHz) | |
|  | |

### A.6 Frequency Stability Test Result

| Test Site | WZ-TR3 | Test Engineer | Liz Yuan |
|---|---|---|---|
| Test Date | 2022-07-21 | Test Mode | 5180MHz |

| Voltage (%) | Power (VAC) | Temp (°C) | $F_L$ (MHz) | | | | Operating Freq. Range (MHz) |
|---|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes | |
| 100 | 120 | - 30 | 5171.105 | 5171.132 | 5171.173 | 5171.098 | 5150 ~ 5350 |
| | | - 20 | 5171.106 | 5171.107 | 5171.063 | 5171.051 | 5150 ~ 5350 |
| | | - 10 | 5171.107 | 5171.142 | 5171.102 | 5171.109 | 5150 ~ 5350 |
| | | 0 | 5171.175 | 5171.151 | 5171.124 | 5171.151 | 5150 ~ 5350 |
| | | + 10 | 5171.126 | 5171.120 | 5171.137 | 5171.123 | 5150 ~ 5350 |
| | | + 20 | 5171.207 | 5171.227 | 5171.186 | 5171.165 | 5150 ~ 5350 |
| | | + 30 | 5171.280 | 5171.331 | 5171.335 | 5171.371 | 5150 ~ 5350 |
| | | + 40 | 5171.224 | 5171.265 | 5171.325 | 5171.415 | 5150 ~ 5350 |
| | | + 50 | 5171.456 | 5171.521 | 5171.536 | 5171.576 | 5150 ~ 5350 |
| 115 | 138 | + 20 | 5171.247 | 5171.253 | 5171.240 | 5171.195 | 5150 ~ 5350 |
| 85 | 102 | + 20 | 5171.197 | 5171.205 | 5171.198 | 5171.212 | 5150 ~ 5350 |

Note: $F_L$ was determined by 99% bandwidth, and the $F_L$ is falling within operating frequency range.

| Test Site | WZ-TR3 | Test Engineer | Liz Yuan |
|---|---|---|---|
| Test Date | 2022-07-21 | Test Mode | 5320MHz |

| Voltage (%) | Power (VAC) | Temp (°C) | $F_H$ (MHz) | | | | Operating Freq. Range (MHz) |
|---|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes | |
| 100 | 120 | - 30 | 5328.985 | 5328.998 | 5328.994 | 5329.053 | 5150 ~ 5350 |
| | | - 20 | 5328.956 | 5328.968 | 5329.017 | 5329.031 | 5150 ~ 5350 |
| | | - 10 | 5328.963 | 5329.013 | 5329.027 | 5329.001 | 5150 ~ 5350 |
| | | 0 | 5329.024 | 5329.049 | 5329.035 | 5329.061 | 5150 ~ 5350 |
| | | + 10 | 5329.107 | 5329.062 | 5329.124 | 5329.139 | 5150 ~ 5350 |
| | | + 20 | 5329.061 | 5329.083 | 5329.124 | 5329.128 | 5150 ~ 5350 |
| | | + 30 | 5329.270 | 5329.174 | 5329.216 | 5329.225 | 5150 ~ 5350 |
| | | + 40 | 5329.239 | 5329.177 | 5329.229 | 5329.223 | 5150 ~ 5350 |
| | | + 50 | 5329.403 | 5329.409 | 5329.417 | 5329.433 | 5150 ~ 5350 |
| 115 | 138 | + 20 | 5329.099 | 5329.092 | 5329.122 | 5329.134 | 5150 ~ 5350 |
| 85 | 102 | + 20 | 5329.092 | 5329.094 | 5329.119 | 5329.144 | 5150 ~ 5350 |

Note: $F_H$ was determined by 99% bandwidth, and the $F_H$ is falling within operating frequency range.

| Test Site | WZ-TR3 | Test Engineer | Liz Yuan |
|---|---|---|---|
| Test Date | 2022-07-21 | Test Mode | 5700MHz |

| Voltage (%) | Power (VAC) | Temp (°C) | $F_H$ (MHz) | | | | Operating Freq. Range (MHz) |
|---|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes | |
| 100 | 120 | - 30 | 5709.019 | 5708.984 | 5708.988 | 5709.071 | 5470 ~ 5725 |
| | | - 20 | 5708.961 | 5708.959 | 5708.954 | 5708.945 | 5470 ~ 5725 |
| | | - 10 | 5708.999 | 5709.004 | 5708.980 | 5709.041 | 5470 ~ 5725 |
| | | 0 | 5709.037 | 5709.031 | 5709.069 | 5709.077 | 5470 ~ 5725 |
| | | + 10 | 5709.088 | 5709.120 | 5709.091 | 5709.107 | 5470 ~ 5725 |
| | | + 20 | 5709.094 | 5709.128 | 5709.137 | 5709.183 | 5470 ~ 5725 |
| | | + 30 | 5709.293 | 5709.312 | 5709.258 | 5709.345 | 5470 ~ 5725 |
| | | + 40 | 5709.269 | 5709.397 | 5709.318 | 5709.402 | 5470 ~ 5725 |
| | | + 50 | 5709.338 | 5709.346 | 5709.494 | 5709.434 | 5470 ~ 5725 |
| 115 | 138 | + 20 | 5709.167 | 5709.157 | 5709.139 | 5709.161 | 5470 ~ 5725 |
| 85 | 102 | + 20 | 5709.162 | 5709.186 | 5709.184 | 5709.168 | 5470 ~ 5725 |

Note: $F_H$ was determined by 99% bandwidth, and the $F_H$ is falling within operating frequency range.

| Test Site | WZ-TR3 | Test Engineer | Liz Yuan |
|---|---|---|---|
| Test Date | 2022-07-21 | Test Mode | 5745MHz |

| Voltage (%) | Power (VAC) | Temp (°C) | $F_L$ (MHz) | | | | Operating Freq. Range (MHz) |
|---|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes | |
| 100 | 120 | - 30 | 5736.106 | 5736.101 | 5736.085 | 5736.124 | 5725 ~ 5850 |
| | | - 20 | 5736.100 | 5736.112 | 5736.178 | 5736.085 | 5725 ~ 5850 |
| | | - 10 | 5736.144 | 5736.135 | 5736.070 | 5736.130 | 5725 ~ 5850 |
| | | 0 | 5736.104 | 5736.169 | 5736.149 | 5736.101 | 5725 ~ 5850 |
| | | + 10 | 5736.143 | 5736.139 | 5736.136 | 5736.153 | 5725 ~ 5850 |
| | | + 20 | 5736.280 | 5736.260 | 5736.263 | 5736.307 | 5725 ~ 5850 |
| | | + 30 | 5736.396 | 5736.397 | 5736.402 | 5736.439 | 5725 ~ 5850 |
| | | + 40 | 5736.544 | 5736.507 | 5736.526 | 5736.505 | 5725 ~ 5850 |
| | | + 50 | 5736.221 | 5736.289 | 5736.137 | 5736.409 | 5725 ~ 5850 |
| 115 | 138 | + 20 | 5736.274 | 5736.266 | 5736.296 | 5736.257 | 5725 ~ 5850 |
| 85 | 102 | + 20 | 5736.299 | 5736.301 | 5736.285 | 5736.308 | 5725 ~ 5850 |

Note: $F_L$ was determined by 99% bandwidth, and the $F_L$ is falling within operating frequency range.

### A.7 Radiated Spurious Emission Test Result

| | | | |
|---|---|---|---|
| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 36 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8845.5 | 37.1 | 10.3 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| * | 10358.5 | 38.7 | 12.7 | 51.4 | 68.2 | -16.8 | Peak | Horizontal |
| | 11081.0 | 36.1 | 12.6 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| | 12220.0 | 36.4 | 12.3 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| * | 8709.5 | 35.0 | 10.0 | 45.0 | 68.2 | -23.2 | Peak | Vertical |
| * | 10477.5 | 36.6 | 12.9 | 49.5 | 68.2 | -18.7 | Peak | Vertical |
| | 11047.0 | 35.1 | 13.1 | 48.2 | 74.0 | -25.8 | Peak | Vertical |
| | 12271.0 | 35.9 | 12.1 | 48.0 | 74.0 | -26.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 44 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 35.9 | 10.0 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| * | 10443.5 | 37.9 | 12.8 | 50.7 | 68.2 | -17.5 | Peak | Horizontal |
| | 11047.0 | 35.9 | 13.1 | 49.0 | 74.0 | -25.0 | Peak | Horizontal |
| | 12296.5 | 36.1 | 12.1 | 48.2 | 74.0 | -25.8 | Peak | Horizontal |
| * | 8701.0 | 36.6 | 10.0 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| * | 10188.5 | 35.3 | 12.9 | 48.2 | 68.2 | -20.0 | Peak | Vertical |
| | 10962.0 | 35.5 | 12.8 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 12687.5 | 36.7 | 12.3 | 49.0 | 74.0 | -25.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 48 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8794.5 | 36.4 | 10.3 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| * | 9950.5 | 34.7 | 11.9 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| | 10698.5 | 36.2 | 13.1 | 49.3 | 74.0 | -24.7 | Peak | Horizontal |
| | 12543.0 | 36.8 | 11.9 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| | 8250.5 | 36.4 | 8.7 | 45.1 | 74.0 | -28.9 | Peak | Vertical |
| * | 8820.0 | 35.5 | 10.3 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| | 11098.0 | 35.7 | 12.8 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| * | 12747.0 | 35.1 | 12.8 | 47.9 | 68.2 | -20.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 52 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 35.7 | 10.0 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| * | 10520.0 | 37.9 | 12.9 | 50.8 | 68.2 | -17.4 | Peak | Horizontal |
| | 11463.5 | 35.4 | 12.6 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12194.5 | 35.8 | 12.1 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8641.5 | 36.4 | 9.7 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 9678.5 | 35.0 | 12.1 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| | 10741.0 | 36.1 | 13.1 | 49.2 | 74.0 | -24.8 | Peak | Vertical |
| | 12084.0 | 35.6 | 12.1 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 60 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 7817.0 | 37.1 | 8.2 | 45.3 | 68.2 | -22.9 | Peak | Horizontal |
| * | 9874.0 | 34.8 | 12.2 | 47.0 | 68.2 | -21.2 | Peak | Horizontal |
| | 10605.0 | 38.7 | 13.1 | 51.8 | 74.0 | -22.2 | Peak | Horizontal |
| | 10605.0 | 30.7 | 13.1 | 43.8 | 54.0 | -10.2 | Average | Horizontal |
| | 12619.5 | 36.3 | 12.0 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8811.5 | 35.4 | 10.3 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| * | 10027.0 | 35.1 | 12.4 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| | 10783.5 | 35.4 | 12.9 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 12407.0 | 36.3 | 12.0 | 48.3 | 74.0 | -25.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 64 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8616.0 | 34.9 | 9.6 | 44.5 | 68.2 | -23.7 | Peak | Horizontal |
| * | 9721.0 | 33.4 | 12.2 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| | 10647.5 | 38.6 | 13.0 | 51.6 | 74.0 | -22.4 | Peak | Horizontal |
| | 10647.5 | 31.0 | 13.0 | 44.0 | 54.0 | -10.0 | Average | Horizontal |
| | 12203.0 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8922.0 | 35.7 | 10.4 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 9746.5 | 35.0 | 12.0 | 47.0 | 68.2 | -21.2 | Peak | Vertical |
| | 10741.0 | 35.8 | 13.1 | 48.9 | 74.0 | -25.1 | Peak | Vertical |
| | 12245.5 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 100 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 35.8 | 10.0 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 9636.0 | 35.5 | 11.9 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| | 10792.0 | 34.9 | 13.0 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 12203.0 | 36.5 | 12.2 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| * | 8735.0 | 35.5 | 10.0 | 45.5 | 68.2 | -22.7 | Peak | Vertical |
| * | 9738.0 | 35.9 | 12.1 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 10826.0 | 35.1 | 12.8 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 12373.0 | 35.5 | 12.1 | 47.6 | 74.0 | -26.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 116 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 7876.5 | 36.2 | 8.5 | 44.7 | 68.2 | -23.5 | Peak | Horizontal |
| * | 10333.0 | 35.6 | 12.9 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 11208.5 | 35.8 | 12.4 | 48.2 | 74.0 | -25.8 | Peak | Horizontal |
| | 12109.5 | 35.6 | 12.1 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 7961.5 | 37.7 | 8.8 | 46.5 | 68.2 | -21.7 | Peak | Vertical |
| * | 9882.5 | 34.8 | 12.3 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| | 10724.0 | 36.7 | 12.9 | 49.6 | 74.0 | -24.4 | Peak | Vertical |
| | 12237.0 | 36.7 | 12.0 | 48.7 | 74.0 | -25.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 140 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8777.5 | 35.7 | 10.1 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 10282.0 | 34.9 | 12.8 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 11013.0 | 35.2 | 12.8 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12271.0 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8803.0 | 35.8 | 10.3 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 10256.5 | 35.8 | 12.7 | 48.5 | 68.2 | -19.7 | Peak | Vertical |
| | 10945.0 | 35.5 | 12.9 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| | 12305.0 | 36.8 | 12.2 | 49.0 | 74.0 | -25.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 144 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8726.5 | 35.4 | 10.0 | 45.4 | 68.2 | -22.8 | Peak | Horizontal |
| * | 10180.0 | 35.2 | 12.9 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 11089.5 | 35.3 | 12.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12449.5 | 35.7 | 12.1 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8709.5 | 35.2 | 10.0 | 45.2 | 68.2 | -23.0 | Peak | Vertical |
| * | 10180.0 | 34.8 | 12.9 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 10741.0 | 35.5 | 13.1 | 48.6 | 74.0 | -25.4 | Peak | Vertical |
| | 11599.5 | 36.4 | 12.3 | 48.7 | 74.0 | -25.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 149 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8684.0 | 35.2 | 9.9 | 45.1 | 68.2 | -23.1 | Peak | Horizontal |
| * | 10188.5 | 35.4 | 12.9 | 48.3 | 68.2 | -19.9 | Peak | Horizontal |
| | 10996.0 | 35.1 | 12.9 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12135.0 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8803.0 | 34.9 | 10.3 | 45.2 | 68.2 | -23.0 | Peak | Vertical |
| * | 10443.5 | 35.6 | 12.8 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| | 10826.0 | 35.4 | 12.8 | 48.2 | 74.0 | -25.8 | Peak | Vertical |
| | 12288.0 | 36.0 | 12.1 | 48.1 | 74.0 | -25.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 157 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8726.5 | 35.8 | 10.0 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 9712.5 | 34.6 | 12.1 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| | 10613.5 | 35.8 | 12.9 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| | 11863.0 | 35.3 | 12.2 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| * | 8726.5 | 35.5 | 10.0 | 45.5 | 68.2 | -22.7 | Peak | Vertical |
| * | 10163.0 | 33.8 | 12.6 | 46.4 | 68.2 | -21.8 | Peak | Vertical |
| | 11242.5 | 36.3 | 12.4 | 48.7 | 74.0 | -25.3 | Peak | Vertical |
| | 12288.0 | 35.5 | 12.1 | 47.6 | 74.0 | -26.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11a | Test Channel | 165 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8794.5 | 35.6 | 10.3 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| * | 9636.0 | 35.5 | 11.9 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| | 10707.0 | 35.4 | 13.0 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| | 12160.5 | 35.7 | 12.2 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8879.5 | 35.9 | 10.3 | 46.2 | 68.2 | -22.0 | Peak | Vertical |
| * | 9704.0 | 34.5 | 12.1 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| | 11166.0 | 36.0 | 12.5 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| | 12296.5 | 35.4 | 12.1 | 47.5 | 74.0 | -26.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 36 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 9857.0 | 35.2 | 12.1 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| * | 10350.0 | 37.3 | 12.8 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| | 11047.0 | 34.7 | 13.1 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 12373.0 | 35.6 | 12.1 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8735.0 | 35.9 | 10.0 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10103.5 | 35.2 | 12.4 | 47.6 | 68.2 | -20.6 | Peak | Vertical |
| | 10826.0 | 35.5 | 12.8 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 11480.5 | 35.1 | 12.5 | 47.6 | 74.0 | -26.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 44 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 10443.5 | 36.8 | 12.8 | 49.6 | 68.2 | -18.6 | Peak | Horizontal |
| | 10877.0 | 35.1 | 12.8 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 12441.0 | 35.9 | 12.1 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| * | 14132.5 | 37.5 | 13.8 | 51.3 | 68.2 | -16.9 | Peak | Horizontal |
| * | 8803.0 | 36.0 | 10.3 | 46.3 | 68.2 | -21.9 | Peak | Vertical |
| * | 10027.0 | 34.8 | 12.4 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| | 10928.0 | 35.5 | 12.8 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 12271.0 | 36.0 | 12.1 | 48.1 | 74.0 | -25.9 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 48 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8845.5 | 35.6 | 10.3 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| * | 10486.0 | 36.7 | 13.0 | 49.7 | 68.2 | -18.5 | Peak | Horizontal |
| | 10996.0 | 34.4 | 12.9 | 47.3 | 74.0 | -26.7 | Peak | Horizontal |
| | 12220.0 | 35.6 | 12.3 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8828.5 | 35.0 | 10.2 | 45.2 | 68.2 | -23.0 | Peak | Vertical |
| * | 9874.0 | 34.5 | 12.2 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| | 10817.5 | 34.9 | 12.7 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| | 12254.0 | 36.3 | 12.2 | 48.5 | 74.0 | -25.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 52 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8845.5 | 35.6 | 10.3 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| * | 10520.0 | 37.4 | 12.9 | 50.3 | 68.2 | -17.9 | Peak | Horizontal |
| | 11021.5 | 35.3 | 12.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 11863.0 | 36.1 | 12.2 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8769.0 | 35.8 | 10.1 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10095.0 | 34.8 | 12.5 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| | 10979.0 | 35.3 | 12.7 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 12628.0 | 35.9 | 12.0 | 47.9 | 74.0 | -26.1 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 60 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 9797.5 | 34.3 | 12.2 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| * | 10596.5 | 38.2 | 13.2 | 51.4 | 68.2 | -16.8 | Peak | Horizontal |
| | 11123.5 | 34.4 | 12.3 | 46.7 | 74.0 | -27.3 | Peak | Horizontal |
| | 12313.5 | 35.5 | 12.2 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8811.5 | 35.0 | 10.3 | 45.3 | 68.2 | -22.9 | Peak | Vertical |
| * | 10129.0 | 34.4 | 12.7 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| | 11038.5 | 35.1 | 12.9 | 48.0 | 74.0 | -26.0 | Peak | Vertical |
| | 12262.5 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 64 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8701.0 | 35.2 | 10.0 | 45.2 | 68.2 | -23.0 | Peak | Horizontal |
| * | 9814.5 | 34.1 | 12.3 | 46.4 | 68.2 | -21.8 | Peak | Horizontal |
| | 10639.0 | 39.6 | 13.1 | 52.7 | 74.0 | -21.3 | Peak | Horizontal |
| | 10639.0 | 31.2 | 13.1 | 44.3 | 54.0 | -9.7 | Average | Horizontal |
| | 12067.0 | 35.4 | 12.2 | 47.6 | 74.0 | -26.4 | Peak | Horizontal |
| * | 8709.5 | 35.5 | 10.0 | 45.5 | 68.2 | -22.7 | Peak | Vertical |
| * | 9865.5 | 35.1 | 12.1 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| | 10758.0 | 34.6 | 12.8 | 47.4 | 74.0 | -26.6 | Peak | Vertical |
| | 12084.0 | 35.7 | 12.1 | 47.8 | 74.0 | -26.2 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 100 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 7944.5 | 35.2 | 8.7 | 43.9 | 68.2 | -24.3 | Peak | Horizontal |
| * | 9704.0 | 34.6 | 12.1 | 46.7 | 68.2 | -21.5 | Peak | Horizontal |
| | 10885.5 | 34.3 | 12.8 | 47.1 | 74.0 | -26.9 | Peak | Horizontal |
| | 12007.5 | 35.2 | 12.2 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| * | 8752.0 | 35.2 | 10.0 | 45.2 | 68.2 | -23.0 | Peak | Vertical |
| * | 10477.5 | 35.5 | 12.9 | 48.4 | 68.2 | -19.8 | Peak | Vertical |
| | 11132.0 | 35.4 | 12.3 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| | 12296.5 | 35.9 | 12.1 | 48.0 | 74.0 | -26.0 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 116 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8913.5 | 36.2 | 10.4 | 46.6 | 68.2 | -21.6 | Peak | Horizontal |
| * | 10095.0 | 34.6 | 12.5 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| | 10894.0 | 35.0 | 12.7 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| | 11497.5 | 35.9 | 12.8 | 48.7 | 74.0 | -25.3 | Peak | Horizontal |
| * | 8004.0 | 36.5 | 8.8 | 45.3 | 68.2 | -22.9 | Peak | Vertical |
| * | 9976.0 | 34.9 | 12.4 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| | 10979.0 | 34.8 | 12.7 | 47.5 | 74.0 | -26.5 | Peak | Vertical |
| | 12016.0 | 35.4 | 12.3 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 140 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8820.0 | 35.2 | 10.3 | 45.5 | 68.2 | -22.7 | Peak | Horizontal |
| * | 10409.5 | 35.9 | 12.8 | 48.7 | 68.2 | -19.5 | Peak | Horizontal |
| | 11098.0 | 34.6 | 12.8 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| | 12330.5 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8777.5 | 34.7 | 10.1 | 44.8 | 68.2 | -23.4 | Peak | Vertical |
| * | 10171.5 | 33.8 | 12.8 | 46.6 | 68.2 | -21.6 | Peak | Vertical |
| | 11089.5 | 34.7 | 12.7 | 47.4 | 74.0 | -26.6 | Peak | Vertical |
| | 12526.0 | 35.7 | 12.0 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 144 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 34.0 | 10.3 | 44.3 | 68.2 | -23.9 | Peak | Horizontal |
| * | 10290.5 | 35.0 | 12.9 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 10928.0 | 35.0 | 12.8 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 12322.0 | 35.9 | 12.2 | 48.1 | 74.0 | -25.9 | Peak | Horizontal |
| * | 8752.0 | 36.2 | 10.0 | 46.2 | 68.2 | -22.0 | Peak | Vertical |
| * | 9959.0 | 35.5 | 12.0 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| | 10945.0 | 35.5 | 12.9 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| | 12288.0 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 149 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8879.5 | 35.7 | 10.3 | 46.0 | 68.2 | -22.2 | Peak | Horizontal |
| * | 10435.0 | 34.5 | 12.8 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| | 10996.0 | 34.4 | 12.9 | 47.3 | 74.0 | -26.7 | Peak | Horizontal |
| | 12330.5 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 8820.0 | 34.7 | 10.3 | 45.0 | 68.2 | -23.2 | Peak | Vertical |
| * | 9840.0 | 34.1 | 12.0 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| | 10970.5 | 35.6 | 12.7 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 12041.5 | 34.9 | 12.2 | 47.1 | 74.0 | -26.9 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 157 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8820.0 | 34.5 | 10.3 | 44.8 | 68.2 | -23.4 | Peak | Horizontal |
| * | 9916.5 | 35.0 | 12.1 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| | 10919.5 | 35.3 | 12.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 11548.5 | 36.0 | 12.6 | 48.6 | 74.0 | -25.4 | Peak | Horizontal |
| * | 8803.0 | 34.8 | 10.3 | 45.1 | 68.2 | -23.1 | Peak | Vertical |
| * | 9984.5 | 34.3 | 12.5 | 46.8 | 68.2 | -21.4 | Peak | Vertical |
| | 10698.5 | 34.3 | 13.1 | 47.4 | 74.0 | -26.6 | Peak | Vertical |
| | 11973.5 | 35.5 | 12.1 | 47.6 | 74.0 | -26.4 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT20 | Test Channel | 165 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 34.4 | 10.0 | 44.4 | 68.2 | -23.8 | Peak | Horizontal |
| * | 10129.0 | 35.5 | 12.7 | 48.2 | 68.2 | -20.0 | Peak | Horizontal |
| | 10783.5 | 35.6 | 12.9 | 48.5 | 74.0 | -25.5 | Peak | Horizontal |
| | 12228.5 | 35.6 | 12.1 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8803.0 | 36.0 | 10.3 | 46.3 | 68.2 | -21.9 | Peak | Vertical |
| * | 10137.5 | 34.7 | 12.7 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| | 10987.5 | 35.0 | 12.9 | 47.9 | 74.0 | -26.1 | Peak | Vertical |
| | 12262.5 | 35.9 | 12.2 | 48.1 | 74.0 | -25.9 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 38 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8820.0 | 36.0 | 10.3 | 46.3 | 68.2 | -21.9 | Peak | Horizontal |
| * | 10171.5 | 35.2 | 12.8 | 48.0 | 68.2 | -20.2 | Peak | Horizontal |
| | 10987.5 | 34.4 | 12.9 | 47.3 | 74.0 | -26.7 | Peak | Horizontal |
| | 12058.5 | 35.1 | 12.3 | 47.4 | 74.0 | -26.6 | Peak | Horizontal |
| * | 8769.0 | 34.5 | 10.1 | 44.6 | 68.2 | -23.6 | Peak | Vertical |
| * | 10180.0 | 34.2 | 12.9 | 47.1 | 68.2 | -21.1 | Peak | Vertical |
| | 10783.5 | 34.7 | 12.9 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| | 12398.5 | 35.4 | 11.9 | 47.3 | 74.0 | -26.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 46 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8786.0 | 35.9 | 10.2 | 46.1 | 68.2 | -22.1 | Peak | Horizontal |
| * | 9984.5 | 34.4 | 12.5 | 46.9 | 68.2 | -21.3 | Peak | Horizontal |
| | 11064.0 | 35.3 | 12.7 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12203.0 | 35.1 | 12.2 | 47.3 | 74.0 | -26.7 | Peak | Horizontal |
| * | 8777.5 | 35.8 | 10.1 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 10180.0 | 34.5 | 12.9 | 47.4 | 68.2 | -20.8 | Peak | Vertical |
| | 10919.5 | 35.1 | 12.7 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| | 12279.5 | 36.9 | 12.1 | 49.0 | 74.0 | -25.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 54 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8760.5 | 35.7 | 10.1 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 9882.5 | 34.8 | 12.3 | 47.1 | 68.2 | -21.1 | Peak | Horizontal |
| | 10970.5 | 35.5 | 12.7 | 48.2 | 74.0 | -25.8 | Peak | Horizontal |
| | 12432.5 | 35.1 | 12.1 | 47.2 | 74.0 | -26.8 | Peak | Horizontal |
| * | 8752.0 | 35.6 | 10.0 | 45.6 | 68.2 | -22.6 | Peak | Vertical |
| * | 10163.0 | 34.3 | 12.6 | 46.9 | 68.2 | -21.3 | Peak | Vertical |
| | 11047.0 | 35.0 | 13.1 | 48.1 | 74.0 | -25.9 | Peak | Vertical |
| | 11523.0 | 36.4 | 12.5 | 48.9 | 74.0 | -25.1 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 62 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8845.5 | 35.4 | 10.3 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| * | 10188.5 | 34.6 | 12.9 | 47.5 | 68.2 | -20.7 | Peak | Horizontal |
| | 11089.5 | 35.6 | 12.7 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 12398.5 | 35.6 | 11.9 | 47.5 | 74.0 | -26.5 | Peak | Horizontal |
| * | 8658.5 | 35.3 | 9.8 | 45.1 | 68.2 | -23.1 | Peak | Vertical |
| * | 10350.0 | 36.4 | 12.8 | 49.2 | 68.2 | -19.0 | Peak | Vertical |
| | 10809.0 | 35.3 | 12.8 | 48.1 | 74.0 | -25.9 | Peak | Vertical |
| | 12245.5 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 102 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 9789.0 | 34.7 | 12.1 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| | 11013.0 | 35.2 | 12.8 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 11990.5 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| * | 13784.0 | 36.4 | 13.7 | 50.1 | 68.2 | -18.1 | Peak | Horizontal |
| * | 8845.5 | 35.6 | 10.3 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| * | 9687.0 | 34.7 | 12.1 | 46.8 | 68.2 | -21.4 | Peak | Vertical |
| | 10996.0 | 35.2 | 12.9 | 48.1 | 74.0 | -25.9 | Peak | Vertical |
| | 12415.5 | 35.0 | 12.1 | 47.1 | 74.0 | -26.9 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 110 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8658.5 | 35.9 | 9.8 | 45.7 | 68.2 | -22.5 | Peak | Horizontal |
| * | 10188.5 | 35.2 | 12.9 | 48.1 | 68.2 | -20.1 | Peak | Horizontal |
| | 11030.0 | 34.9 | 12.7 | 47.6 | 74.0 | -26.4 | Peak | Horizontal |
| | 12050.0 | 36.1 | 12.3 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| * | 8616.0 | 36.3 | 9.6 | 45.9 | 68.2 | -22.3 | Peak | Vertical |
| | 10902.5 | 35.1 | 12.7 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| | 11633.5 | 36.1 | 12.0 | 48.1 | 74.0 | -25.9 | Peak | Vertical |
| * | 12959.5 | 37.4 | 12.8 | 50.2 | 68.2 | -18.0 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 134 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8692.5 | 36.5 | 10.0 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| * | 10171.5 | 34.9 | 12.8 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 11081.0 | 35.4 | 12.6 | 48.0 | 74.0 | -26.0 | Peak | Horizontal |
| | 12475.0 | 36.0 | 11.9 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8752.0 | 35.7 | 10.0 | 45.7 | 68.2 | -22.5 | Peak | Vertical |
| * | 9814.5 | 35.0 | 12.3 | 47.3 | 68.2 | -20.9 | Peak | Vertical |
| | 10902.5 | 35.1 | 12.7 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| | 12075.5 | 35.6 | 12.2 | 47.8 | 74.0 | -26.2 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 142 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8888.0 | 35.6 | 10.3 | 45.9 | 68.2 | -22.3 | Peak | Horizontal |
| * | 9865.5 | 34.7 | 12.1 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| | 10885.5 | 34.9 | 12.8 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| | 11778.0 | 36.6 | 12.0 | 48.6 | 74.0 | -25.4 | Peak | Horizontal |
| * | 9695.5 | 34.3 | 12.0 | 46.3 | 68.2 | -21.9 | Peak | Vertical |
| * | 10367.0 | 34.5 | 12.7 | 47.2 | 68.2 | -21.0 | Peak | Vertical |
| | 10970.5 | 35.9 | 12.7 | 48.6 | 74.0 | -25.4 | Peak | Vertical |
| | 11999.0 | 36.0 | 12.2 | 48.2 | 74.0 | -25.8 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 151 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8811.5 | 35.3 | 10.3 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| * | 9984.5 | 34.8 | 12.5 | 47.3 | 68.2 | -20.9 | Peak | Horizontal |
| | 10783.5 | 35.9 | 12.9 | 48.8 | 74.0 | -25.2 | Peak | Horizontal |
| | 12067.0 | 35.5 | 12.2 | 47.7 | 74.0 | -26.3 | Peak | Horizontal |
| * | 8811.5 | 35.8 | 10.3 | 46.1 | 68.2 | -22.1 | Peak | Vertical |
| * | 10401.0 | 35.2 | 12.8 | 48.0 | 68.2 | -20.2 | Peak | Vertical |
| | 10996.0 | 34.8 | 12.9 | 47.7 | 74.0 | -26.3 | Peak | Vertical |
| | 12347.5 | 36.6 | 12.2 | 48.8 | 74.0 | -25.2 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT40 | Test Channel | 159 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8735.0 | 35.0 | 10.0 | 45.0 | 68.2 | -23.2 | Peak | Horizontal |
| * | 10188.5 | 35.6 | 12.9 | 48.5 | 68.2 | -19.7 | Peak | Horizontal |
| | 10758.0 | 35.5 | 12.8 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| | 12543.0 | 36.7 | 11.9 | 48.6 | 74.0 | -25.4 | Peak | Horizontal |
| * | 8769.0 | 35.7 | 10.1 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 9984.5 | 34.4 | 12.5 | 46.9 | 68.2 | -21.3 | Peak | Vertical |
| | 11038.5 | 35.8 | 12.9 | 48.7 | 74.0 | -25.3 | Peak | Vertical |
| | 12279.5 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT80 | Test Channel | 42 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8616.0 | 35.9 | 9.6 | 45.5 | 68.2 | -22.7 | Peak | Horizontal |
| * | 10061.0 | 35.5 | 12.2 | 47.7 | 68.2 | -20.5 | Peak | Horizontal |
| | 10894.0 | 35.2 | 12.7 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| | 12084.0 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8811.5 | 36.4 | 10.3 | 46.7 | 68.2 | -21.5 | Peak | Vertical |
| * | 10171.5 | 34.7 | 12.8 | 47.5 | 68.2 | -20.7 | Peak | Vertical |
| | 10970.5 | 35.6 | 12.7 | 48.3 | 74.0 | -25.7 | Peak | Vertical |
| | 12449.5 | 36.3 | 12.1 | 48.4 | 74.0 | -25.6 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT80 | Test Channel | 58 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8743.5 | 35.8 | 10.0 | 45.8 | 68.2 | -22.4 | Peak | Horizontal |
| * | 10180.0 | 35.0 | 12.9 | 47.9 | 68.2 | -20.3 | Peak | Horizontal |
| | 10987.5 | 34.9 | 12.9 | 47.8 | 74.0 | -26.2 | Peak | Horizontal |
| | 12296.5 | 35.5 | 12.1 | 47.6 | 74.0 | -26.4 | Peak | Horizontal |
| * | 8820.0 | 35.7 | 10.3 | 46.0 | 68.2 | -22.2 | Peak | Vertical |
| * | 10401.0 | 35.5 | 12.8 | 48.3 | 68.2 | -19.9 | Peak | Vertical |
| | 10945.0 | 34.9 | 12.9 | 47.8 | 74.0 | -26.2 | Peak | Vertical |
| | 12254.0 | 35.3 | 12.2 | 47.5 | 74.0 | -26.5 | Peak | Vertical |

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT80 | Test Channel | 122 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8820.0 | 35.3 | 10.3 | 45.6 | 68.2 | -22.6 | Peak | Horizontal |
| * | 9823.0 | 34.4 | 12.4 | 46.8 | 68.2 | -21.4 | Peak | Horizontal |
| | 10792.0 | 34.0 | 13.0 | 47.0 | 74.0 | -27.0 | Peak | Horizontal |
| | 11973.5 | 36.2 | 12.1 | 48.3 | 74.0 | -25.7 | Peak | Horizontal |
| * | 8726.5 | 35.3 | 10.0 | 45.3 | 68.2 | -22.9 | Peak | Vertical |
| * | 10486.0 | 35.6 | 13.0 | 48.6 | 68.2 | -19.6 | Peak | Vertical |
| | 10936.5 | 34.7 | 12.9 | 47.6 | 74.0 | -26.4 | Peak | Vertical |
| | 12305.0 | 35.5 | 12.2 | 47.7 | 74.0 | -26.3 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT80 | Test Channel | 138 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8803.0 | 35.8 | 10.3 | 46.1 | 68.2 | -22.1 | Peak | Horizontal |
| * | 9993.0 | 35.1 | 12.3 | 47.4 | 68.2 | -20.8 | Peak | Horizontal |
| | 11021.5 | 35.9 | 12.7 | 48.6 | 74.0 | -25.4 | Peak | Horizontal |
| | 12279.5 | 35.8 | 12.1 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8811.5 | 35.5 | 10.3 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 10146.0 | 35.1 | 12.7 | 47.8 | 68.2 | -20.4 | Peak | Vertical |
| | 11013.0 | 35.6 | 12.8 | 48.4 | 74.0 | -25.6 | Peak | Vertical |
| | 12194.5 | 35.3 | 12.1 | 47.4 | 74.0 | -26.6 | Peak | Vertical |

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Product | Barracuda NextGen Firewall | Test Engineer | Edith Yu |
|---|---|---|---|
| Test Site | WZ-AC1 | Test Date | 2022-07-13 |
| Test Mode | 802.11ac-VHT80 | Test Channel | 155 |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 8964.5 | 35.9 | 10.6 | 46.5 | 68.2 | -21.7 | Peak | Horizontal |
| * | 9865.5 | 35.5 | 12.1 | 47.6 | 68.2 | -20.6 | Peak | Horizontal |
| | 10749.5 | 35.4 | 13.0 | 48.4 | 74.0 | -25.6 | Peak | Horizontal |
| | 11897.0 | 35.9 | 12.0 | 47.9 | 74.0 | -26.1 | Peak | Horizontal |
| * | 8667.0 | 36.0 | 9.8 | 45.8 | 68.2 | -22.4 | Peak | Vertical |
| * | 10137.5 | 35.0 | 12.7 | 47.7 | 68.2 | -20.5 | Peak | Vertical |
| | 10936.5 | 35.6 | 12.9 | 48.5 | 74.0 | -25.5 | Peak | Vertical |
| | 12313.5 | 36.3 | 12.2 | 48.5 | 74.0 | -25.5 | Peak | Vertical |

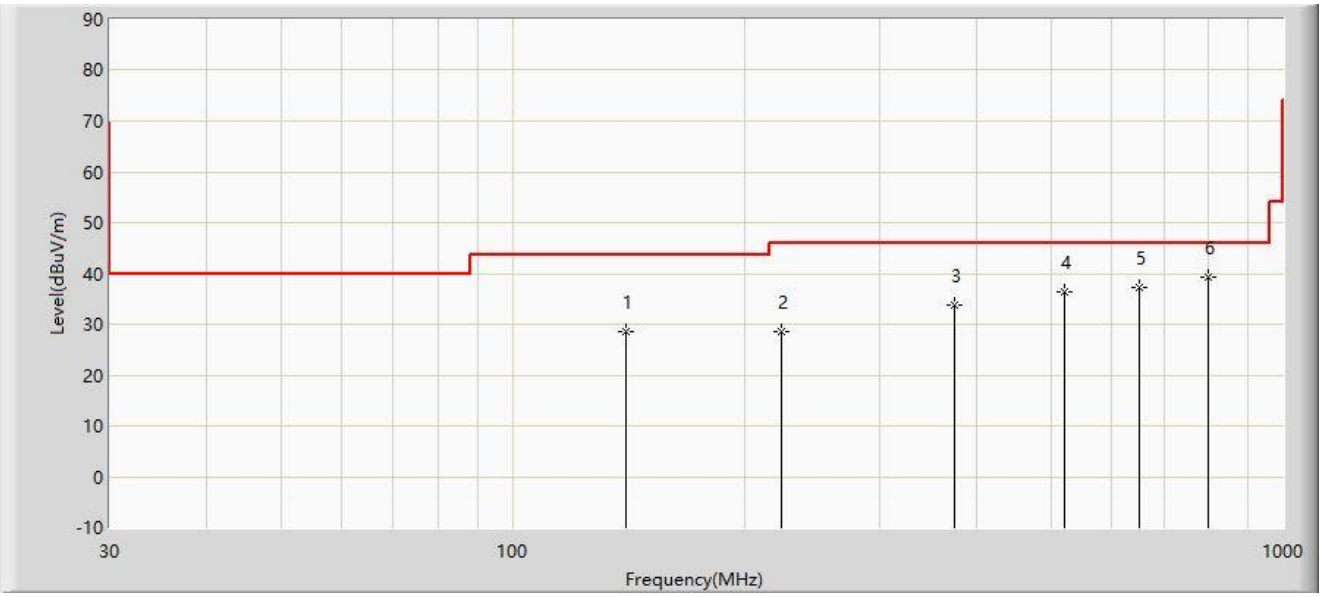
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst-Case Result of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: WZ-AC2 | Test Date: 2022-07-15 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Luis Yang |
| Probe: VULB9162_30-7000MHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5580MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 140.095 | 28.519 | 13.252 | -14.981 | 43.500 | 15.268 | PK |
| 2 | | 223.030 | 28.657 | 9.514 | -17.343 | 46.000 | 19.143 | PK |
| 3 | | 374.835 | 33.648 | 10.872 | -12.352 | 46.000 | 22.775 | PK |
| 4 | | 520.820 | 36.460 | 11.068 | -9.540 | 46.000 | 25.392 | PK |
| 5 | | 650.315 | 37.373 | 9.754 | -8.627 | 46.000 | 27.619 | PK |
| 6 | * | 800.180 | 39.195 | 9.384 | -6.805 | 46.000 | 29.811 | PK |

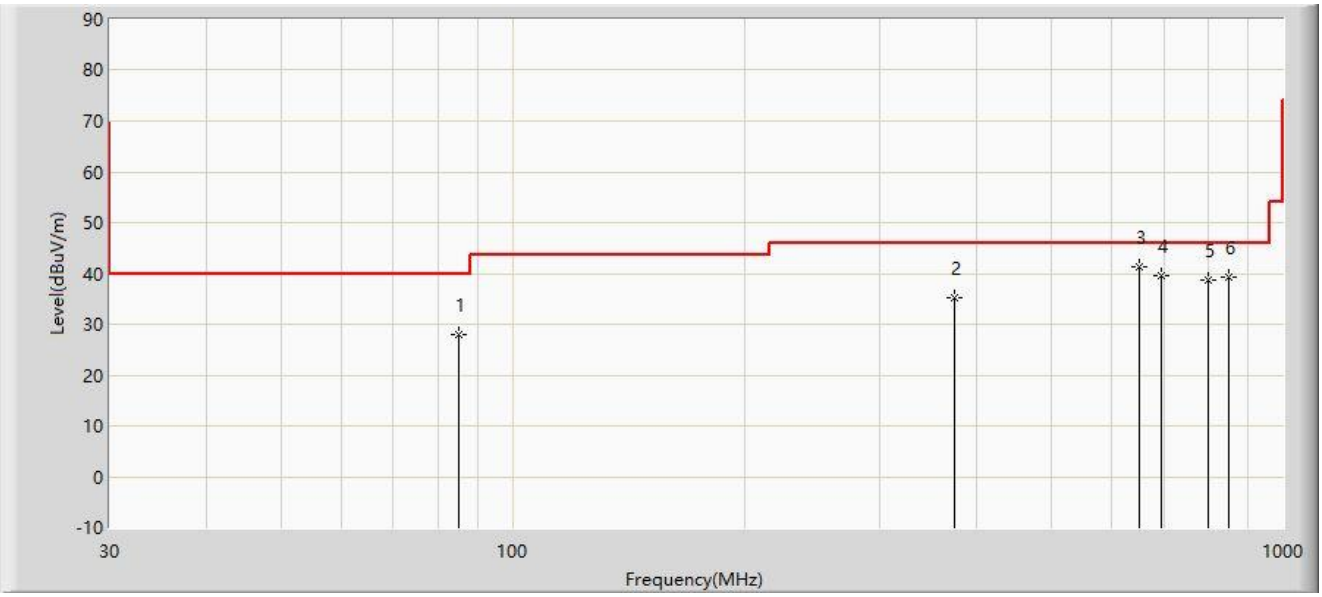
Note 1: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

| | |
|---|---|
| Site: WZ-AC2 | Test Date: 2022-07-15 |
| Limit: FCC_Part15.209_RSE(3m) | Engineer: Luis Yang |
| Probe: VULB9162_30-7000MHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5580MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 85.290 | 27.989 | 12.902 | -12.011 | 40.000 | 15.086 | PK |
| 2 | | 374.835 | 35.167 | 12.391 | -10.833 | 46.000 | 22.775 | PK |
| 3 | * | 650.315 | 41.209 | 13.590 | -4.791 | 46.000 | 27.619 | PK |
| 4 | | 695.420 | 39.602 | 11.045 | -6.398 | 46.000 | 28.558 | PK |
| 5 | | 800.180 | 38.614 | 8.803 | -7.386 | 46.000 | 29.811 | PK |
| 6 | | 850.135 | 39.376 | 8.627 | -6.624 | 46.000 | 30.749 | PK |

Note 1: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)

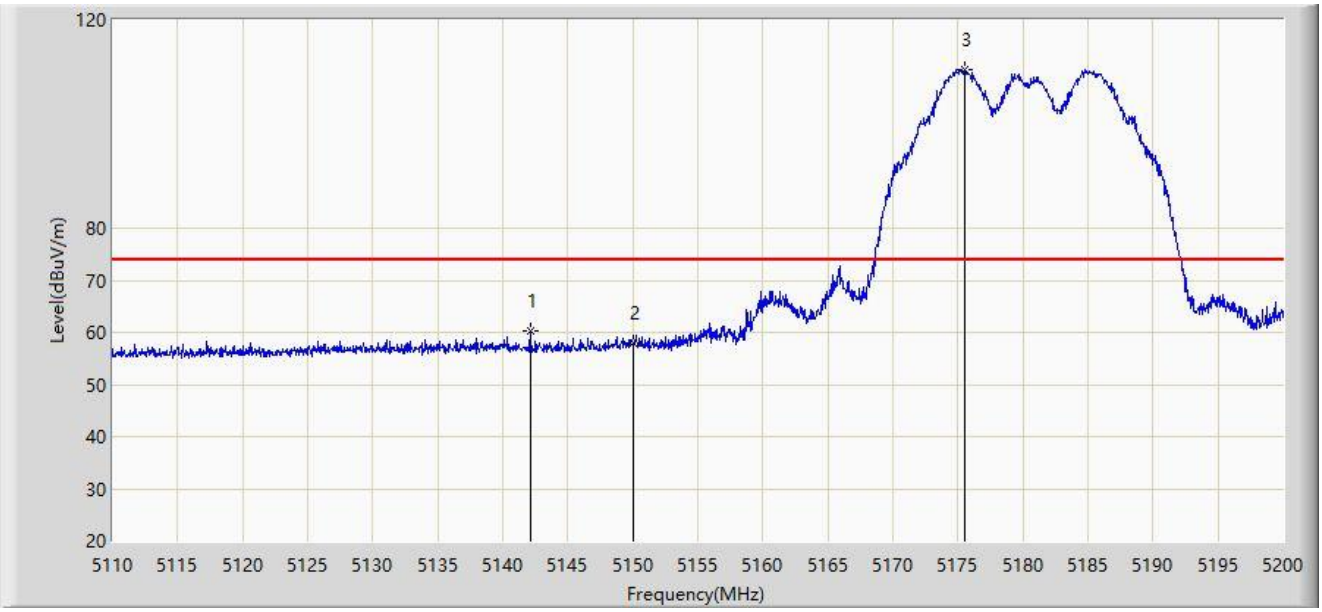
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

### A.8 Radiated Restricted Band Edge Test Result

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5180MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5142.130 | 60.250 | 56.047 | -13.750 | 74.000 | 4.203 | PK |
| 2 | | 5150.000 | 58.085 | 53.849 | -15.915 | 74.000 | 4.236 | PK |
| 3 | | 5175.520 | 110.572 | 106.591 | N/A | N/A | 3.981 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5180MHz | |

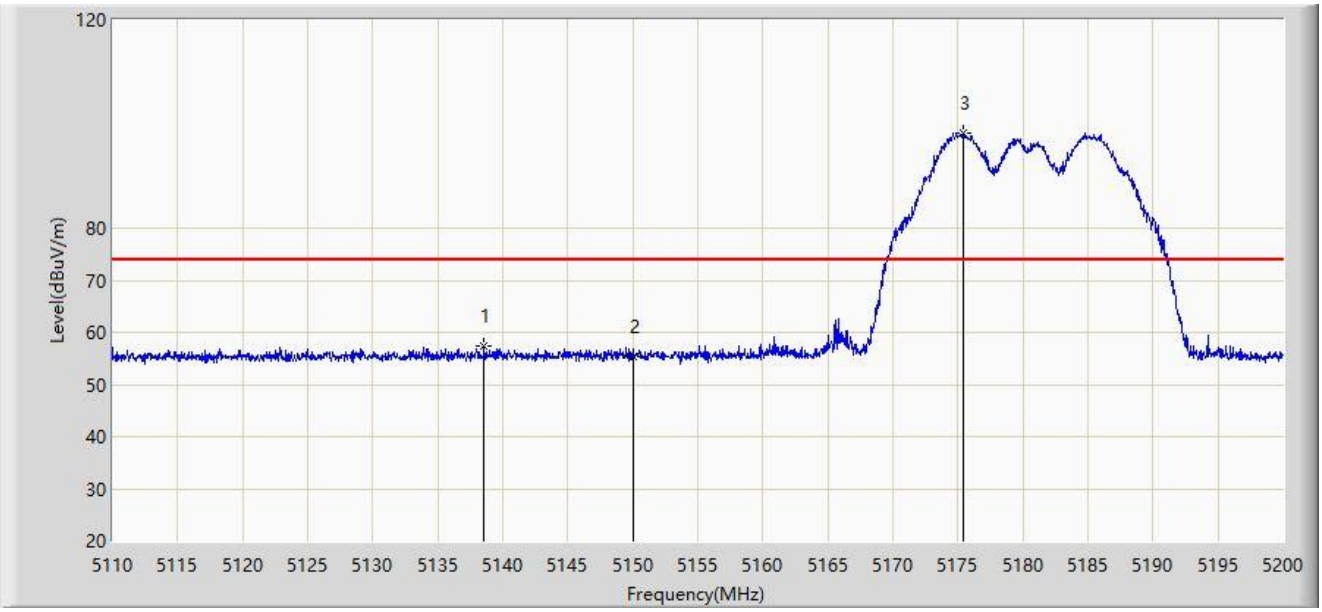

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5149.420 | 47.825 | 43.588 | -6.175 | 54.000 | 4.236 | AV |
| 2 | | 5150.000 | 47.648 | 43.412 | -6.352 | 54.000 | 4.236 | AV |
| 3 | | 5175.475 | 103.086 | 99.105 | N/A | N/A | 3.982 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5180MHz | |



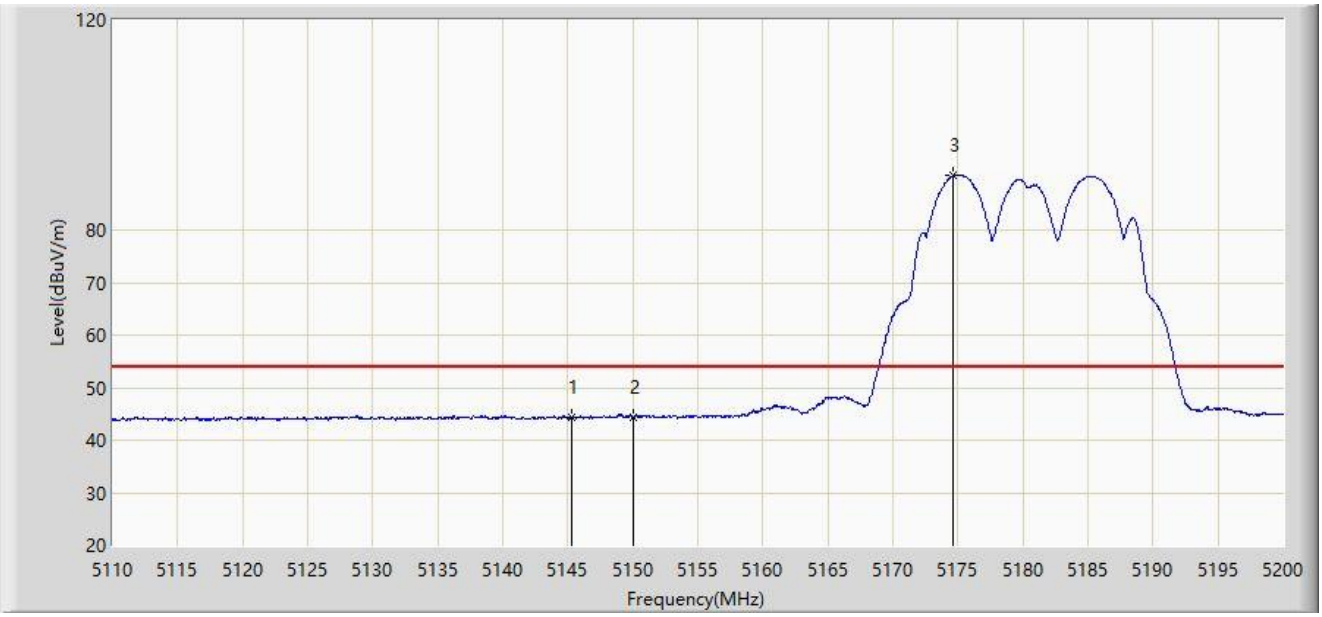

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5138.575 | 57.466 | 53.286 | -16.534 | 74.000 | 4.180 | PK |
| 2 | | 5150.000 | 55.324 | 51.088 | -18.676 | 74.000 | 4.236 | PK |
| 3 | | 5175.430 | 98.128 | 94.147 | N/A | N/A | 3.982 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5180MHz | |



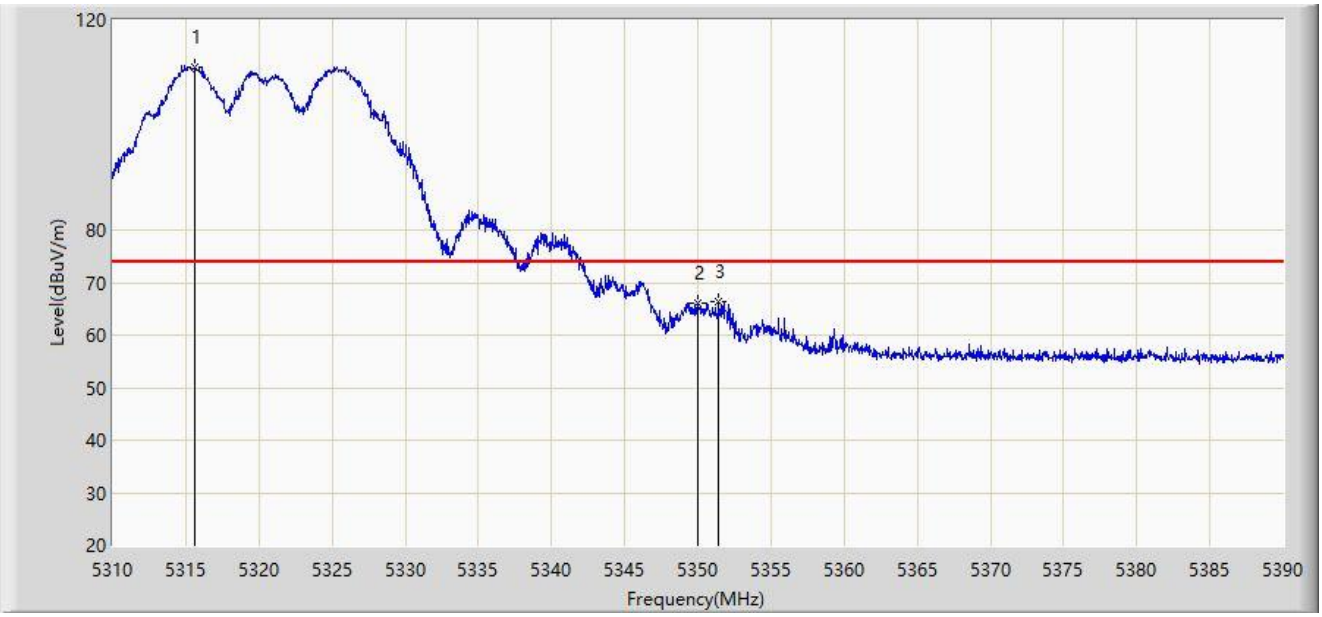

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5145.280 | 44.392 | 40.169 | -9.608 | 54.000 | 4.223 | AV |
| 2 | * | 5150.000 | 44.400 | 40.164 | -9.600 | 54.000 | 4.236 | AV |
| 3 | | 5174.665 | 90.371 | 86.390 | N/A | N/A | 3.982 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5320MHz | |



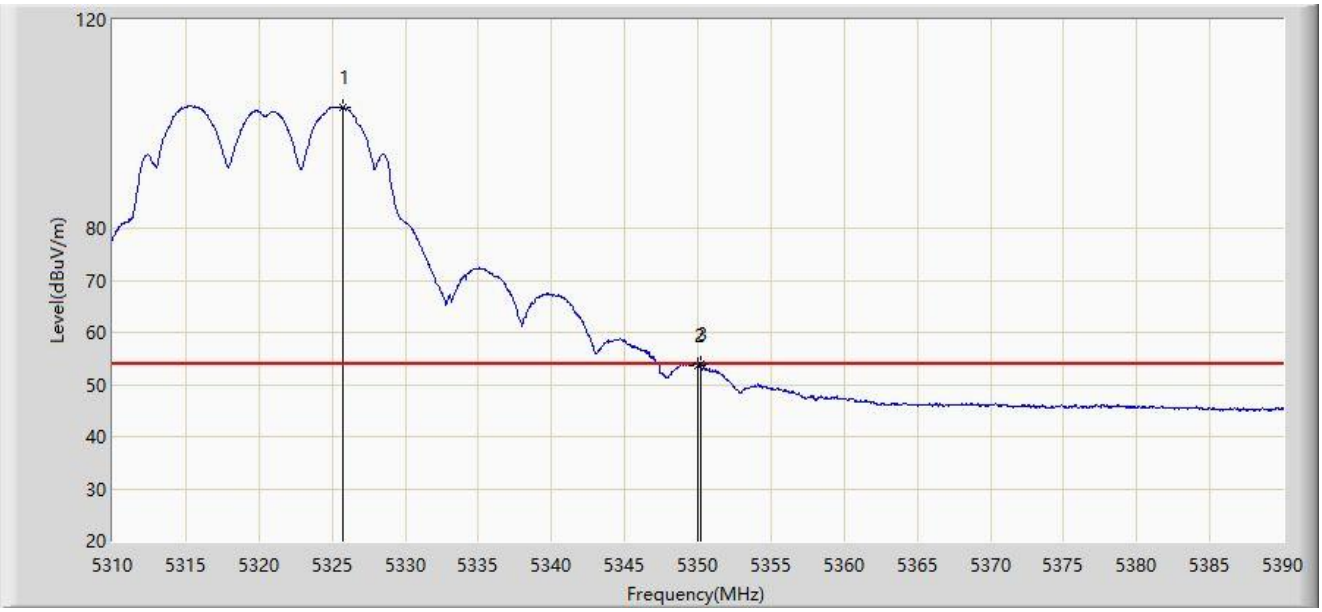

| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5315.640 | 110.883 | 106.824 | N/A | N/A | 4.060 | PK |
| 2 | | 5350.000 | 66.016 | 62.079 | -7.984 | 74.000 | 3.937 | PK |
| 3 | * | 5351.440 | 66.253 | 62.344 | -7.747 | 74.000 | 3.909 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5320MHz | |



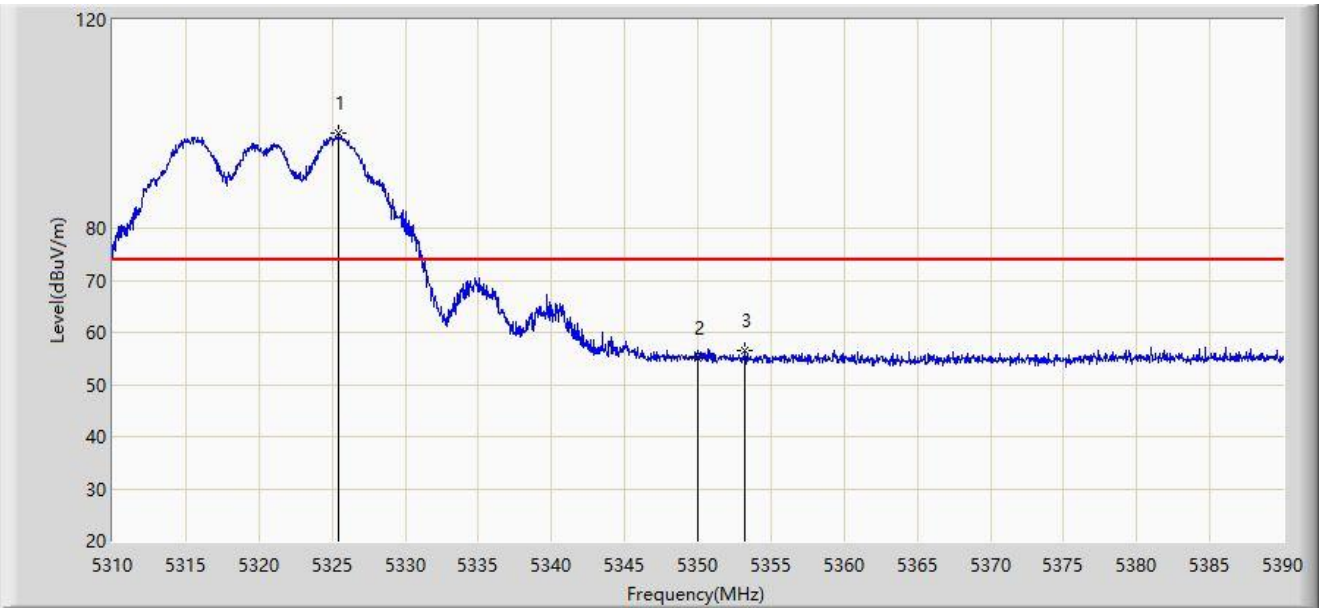

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5325.760 | 103.097 | 99.027 | N/A | N/A | 4.070 | AV |
| 2 | | 5350.000 | 53.574 | 49.637 | -0.426 | 54.000 | 3.937 | AV |
| 3 | * | 5350.200 | 53.827 | 49.894 | -0.173 | 54.000 | 3.933 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5320MHz | |



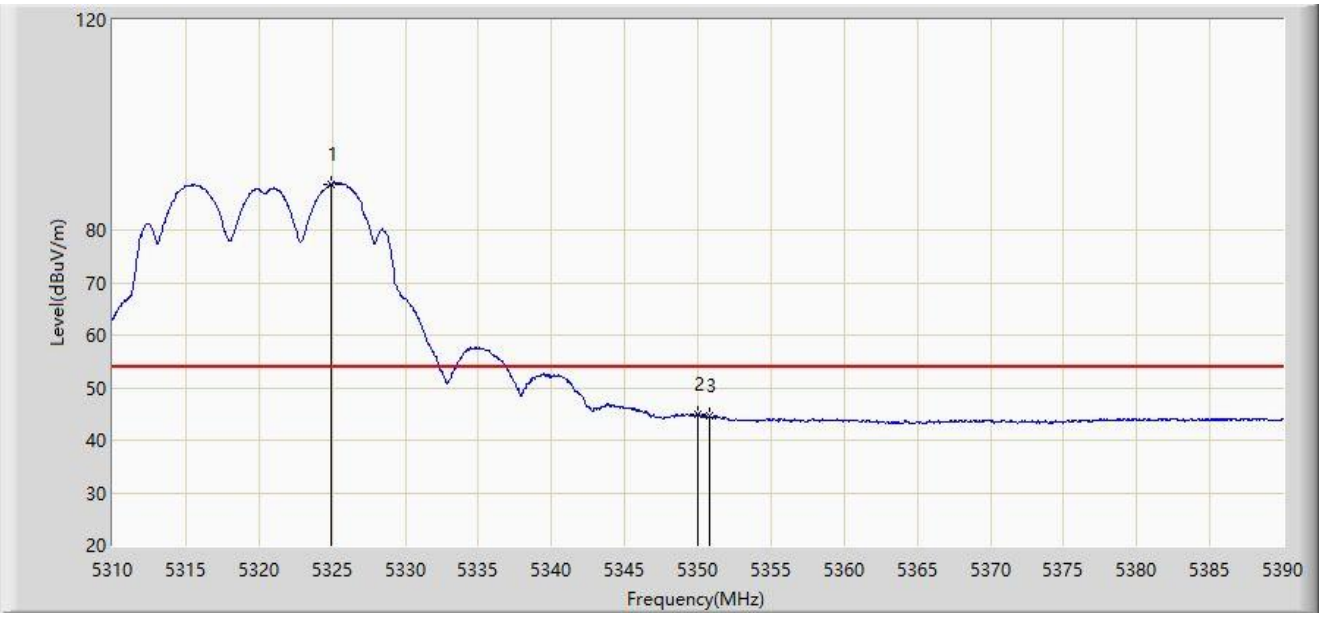

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5325.440 | 98.135 | 94.065 | N/A | N/A | 4.070 | PK |
| 2 | | 5350.000 | 55.121 | 51.184 | -18.879 | 74.000 | 3.937 | PK |
| 3 | * | 5353.240 | 56.609 | 52.718 | -17.391 | 74.000 | 3.891 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5320MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5324.960 | 88.803 | 84.732 | N/A | N/A | 4.071 | AV |
| 2 | * | 5350.000 | 44.920 | 40.983 | -9.080 | 54.000 | 3.937 | AV |
| 3 | | 5350.760 | 44.541 | 40.619 | -9.459 | 54.000 | 3.922 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-13 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5500MHz | |

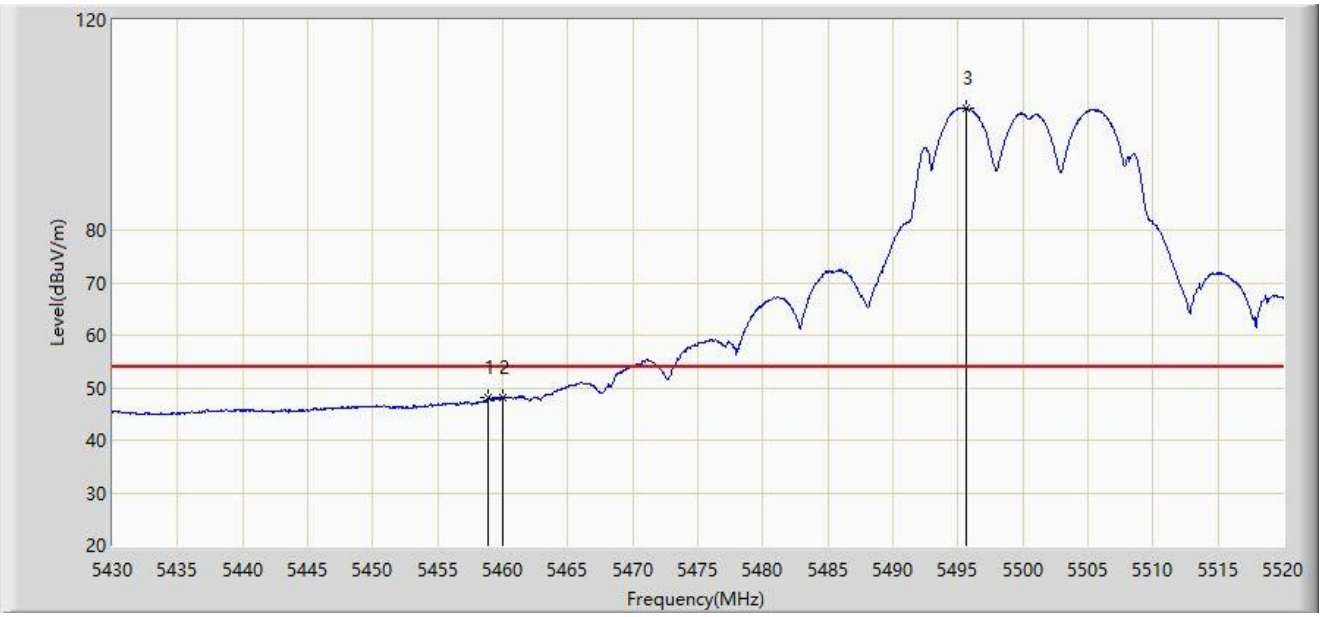

| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5459.250 | 60.393 | 56.465 | -13.607 | 74.000 | 3.927 | PK |
| 2 | | 5460.000 | 59.170 | 55.238 | -14.830 | 74.000 | 3.932 | PK |
| 3 | * | 5469.915 | 67.182 | 63.200 | -1.018 | 68.200 | 3.982 | PK |
| 4 | | 5470.000 | 66.162 | 62.180 | -2.038 | 68.200 | 3.982 | PK |
| 5 | | 5496.285 | 111.752 | 107.552 | N/A | N/A | 4.200 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5500MHz | |



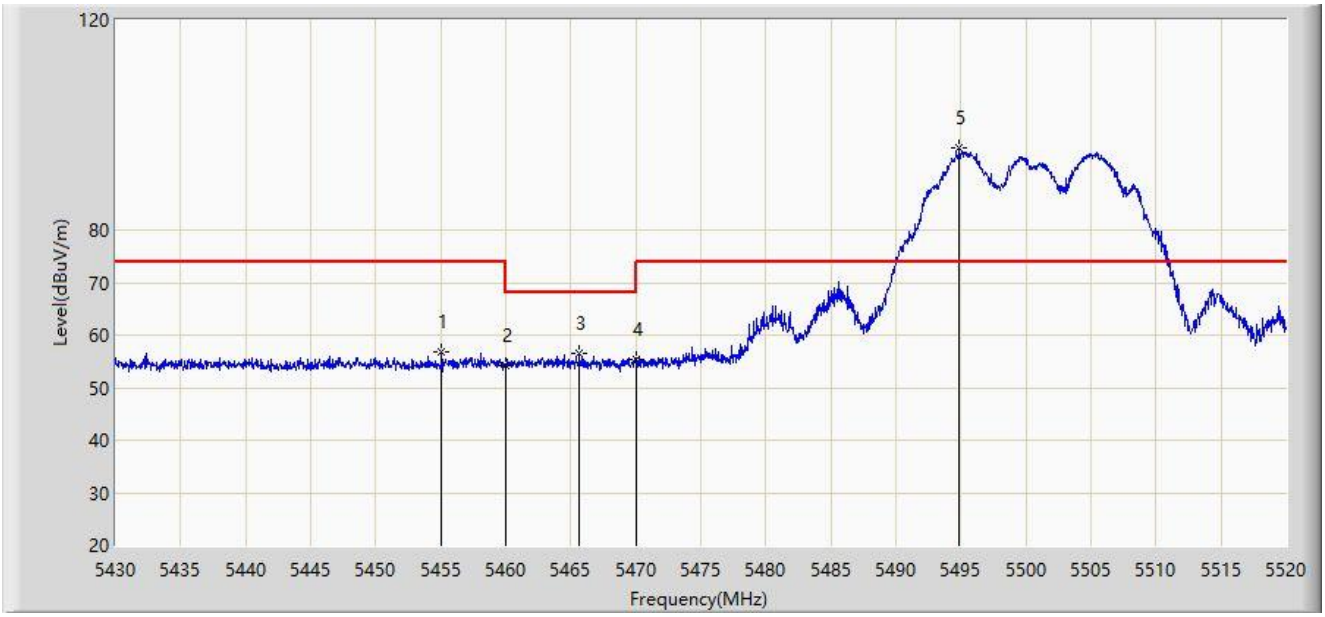

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5458.890 | 48.058 | 44.132 | -5.942 | 54.000 | 3.926 | AV |
| 2 | | 5460.000 | 47.983 | 44.051 | -6.017 | 54.000 | 3.932 | AV |
| 3 | | 5495.610 | 103.198 | 98.992 | N/A | N/A | 4.206 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5500MHz | |



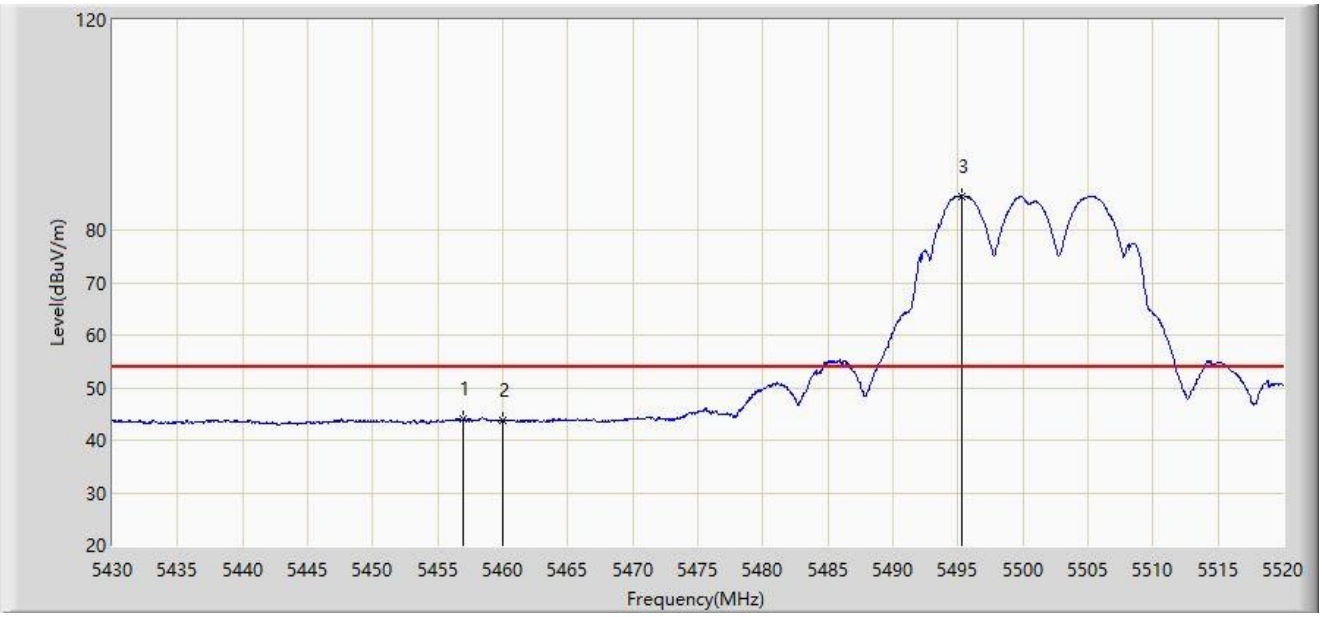

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5455.065 | 56.927 | 53.043 | -17.073 | 74.000 | 3.885 | PK |
| 2 | | 5460.000 | 54.317 | 50.385 | -19.683 | 74.000 | 3.932 | PK |
| 3 | * | 5465.640 | 56.466 | 52.506 | -11.734 | 68.200 | 3.961 | PK |
| 4 | | 5470.000 | 55.377 | 51.395 | -12.823 | 68.200 | 3.982 | PK |
| 5 | | 5494.890 | 95.614 | 91.402 | N/A | N/A | 4.212 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5500MHz | |



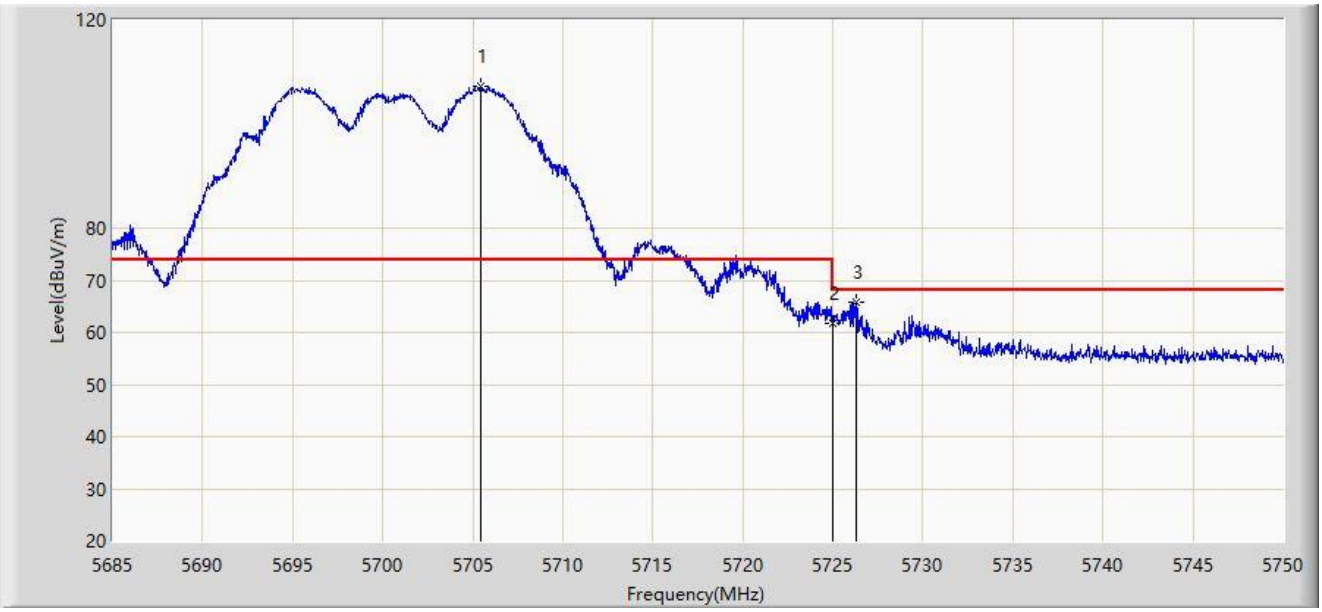

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5456.955 | 44.119 | 40.202 | -9.881 | 54.000 | 3.917 | AV |
| 2 | | 5460.000 | 43.711 | 39.779 | -10.289 | 54.000 | 3.932 | AV |
| 3 | | 5495.340 | 86.520 | 82.312 | N/A | N/A | 4.208 | AV |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5700MHz | |



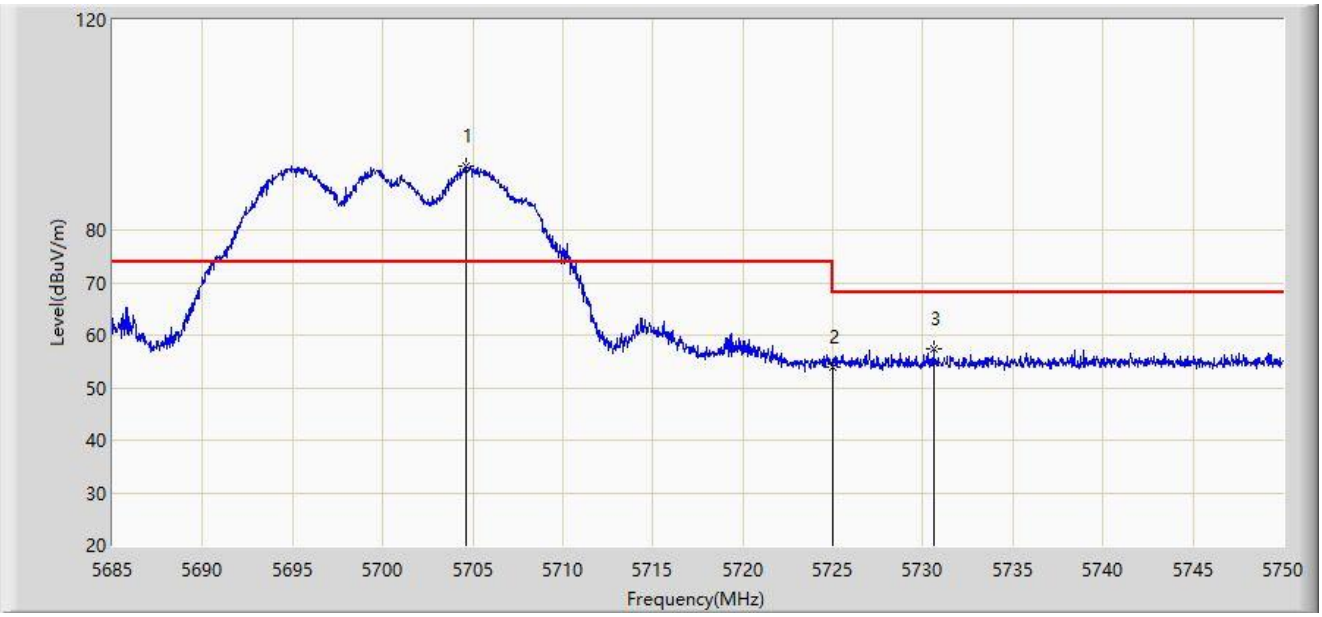

| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5705.475 | 107.160 | 102.691 | N/A | N/A | 4.468 | PK |
| 2 | | 5725.000 | 61.877 | 57.328 | -6.323 | 68.200 | 4.549 | PK |
| 3 | * | 5726.275 | 65.724 | 61.167 | -2.476 | 68.200 | 4.557 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_5G_RE(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5700MHz | |



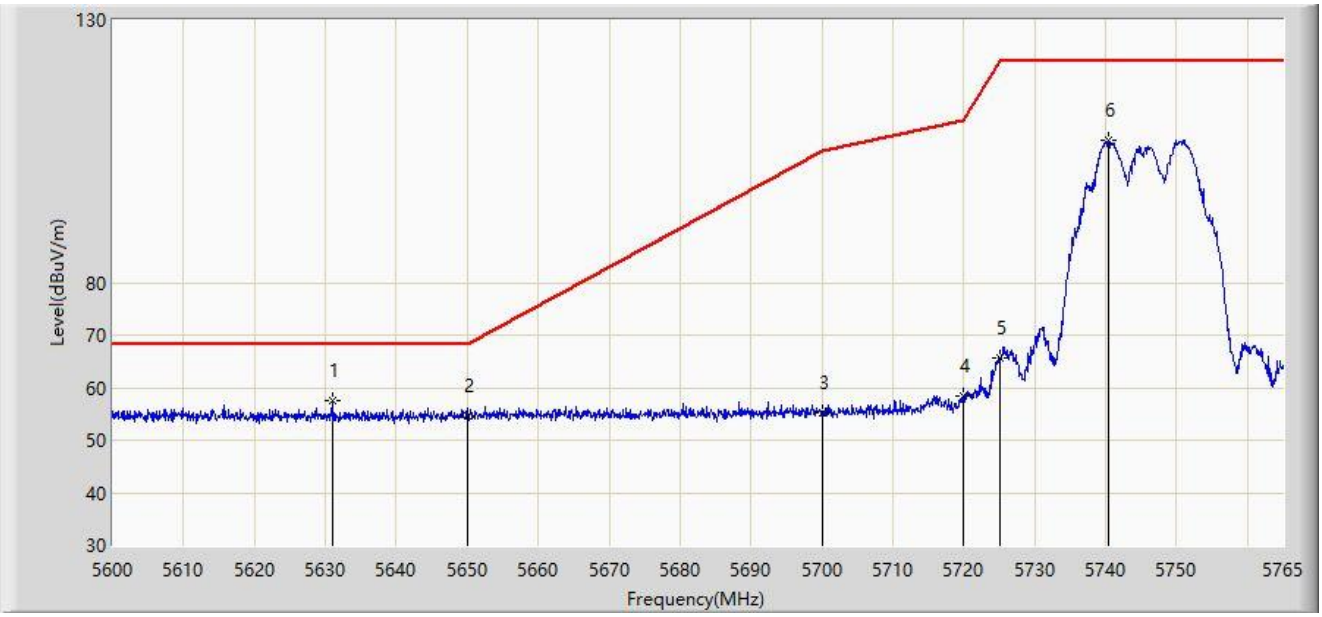

| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5704.630 | 92.137 | 87.667 | N/A | N/A | 4.470 | PK |
| 2 | | 5725.000 | 54.016 | 49.467 | -14.184 | 68.200 | 4.549 | PK |
| 3 | * | 5730.598 | 57.268 | 52.649 | -10.932 | 68.200 | 4.618 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5745MHz | |



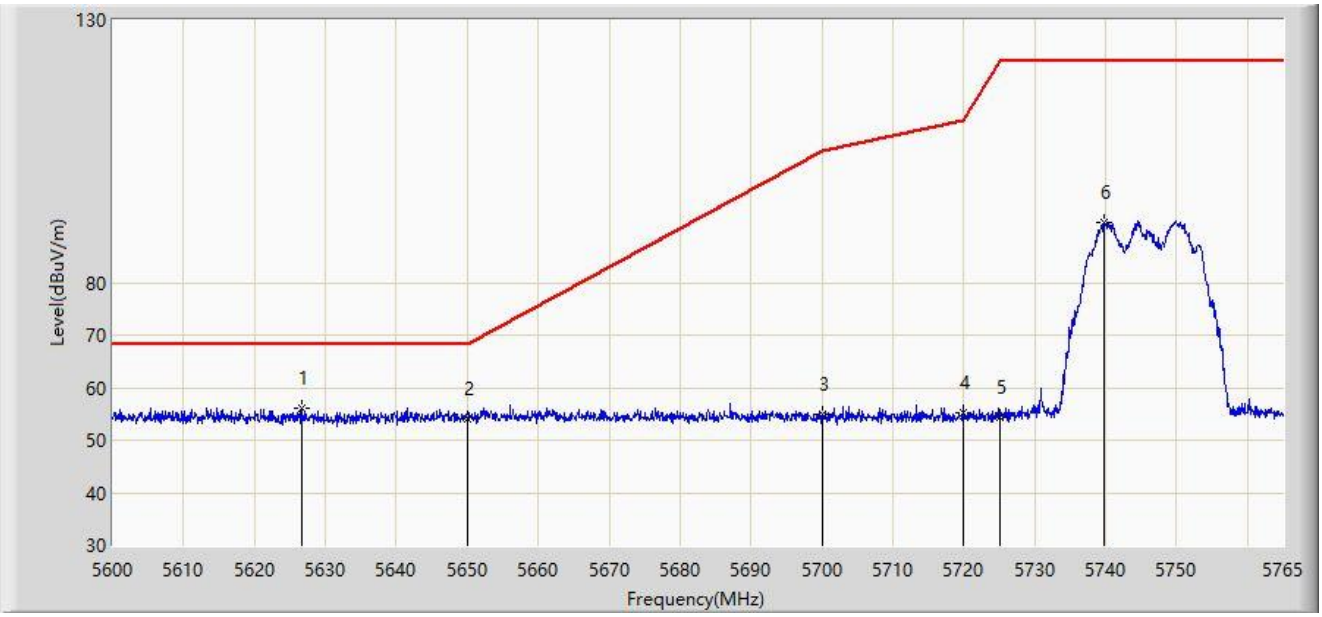

| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5630.937 | 57.596 | 53.492 | -10.604 | 68.200 | 4.104 | PK |
| 2 | | 5650.000 | 54.615 | 50.232 | -13.585 | 68.200 | 4.382 | PK |
| 3 | | 5700.000 | 55.269 | 50.795 | -49.931 | 105.200 | 4.474 | PK |
| 4 | | 5720.000 | 58.290 | 53.767 | -52.510 | 110.800 | 4.523 | PK |
| 5 | | 5725.000 | 65.572 | 61.023 | -56.628 | 122.200 | 4.549 | PK |
| 6 | | 5740.415 | 107.183 | 102.424 | N/A | N/A | 4.760 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Vertical |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5745MHz | |



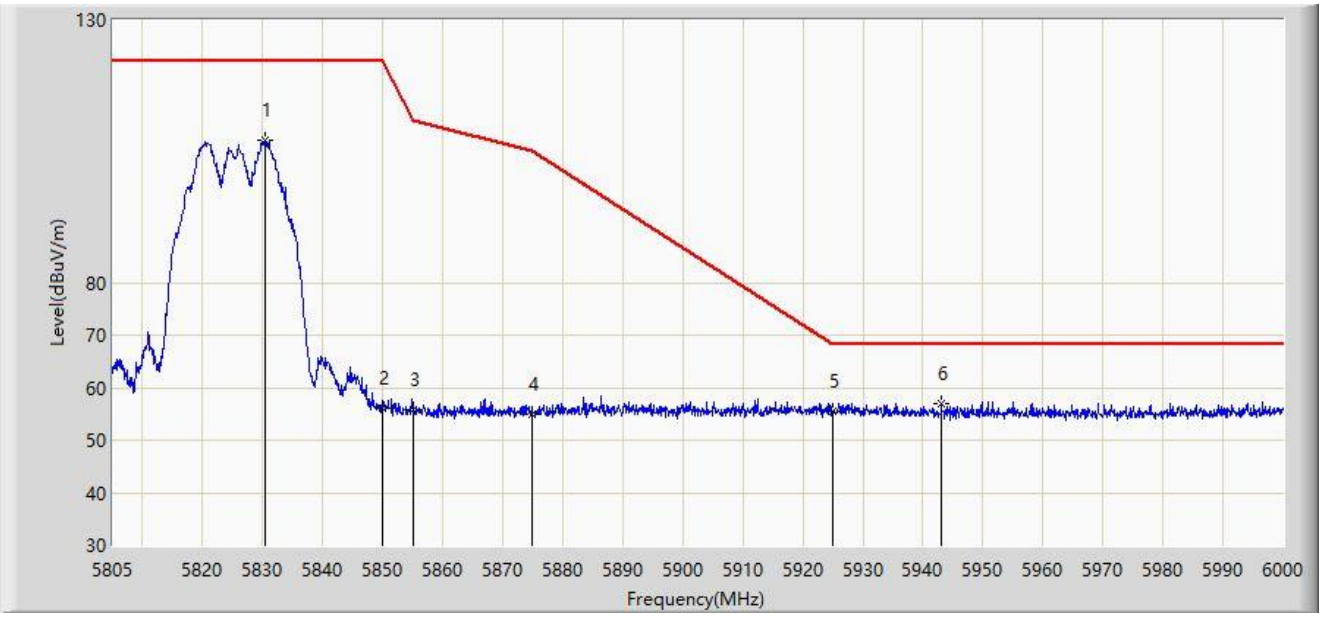

| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 5626.647 | 56.069 | 51.956 | -12.131 | 68.200 | 4.113 | PK |
| 2 | | 5650.000 | 54.030 | 49.647 | -14.170 | 68.200 | 4.382 | PK |
| 3 | | 5700.000 | 54.906 | 50.432 | -50.294 | 105.200 | 4.474 | PK |
| 4 | | 5720.000 | 55.168 | 50.645 | -55.632 | 110.800 | 4.523 | PK |
| 5 | | 5725.000 | 54.478 | 49.929 | -67.722 | 122.200 | 4.549 | PK |
| 6 | | 5739.672 | 91.481 | 86.732 | N/A | N/A | 4.748 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: WZ-AC1 | Test Date: 2022-07-10 |
| Limit: FCC_Part15.407_Band Edge(3m) | Engineer: Edith Yu |
| Probe: BBHA9120D_1167_1-18GHz | Polarity: Horizontal |
| EUT: Barracuda NextGen Firewall | Power: AC 120V/60Hz |
| Test Mode: Transmit by 802.11a at 5825MHz | |




| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5830.350 | 107.076 | 101.932 | N/A | N/A | 5.144 | PK |
| 2 | | 5850.000 | 56.060 | 50.899 | -66.140 | 122.200 | 5.161 | PK |
| 3 | | 5855.000 | 55.836 | 50.729 | -54.964 | 110.800 | 5.107 | PK |
| 4 | | 5875.000 | 55.032 | 50.027 | -50.168 | 105.200 | 5.006 | PK |
| 5 | | 5925.000 | 55.421 | 50.106 | -12.779 | 68.200 | 5.315 | PK |
| 6 | * | 5943.060 | 57.023 | 51.826 | -11.177 | 68.200 | 5.197 | PK |

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).