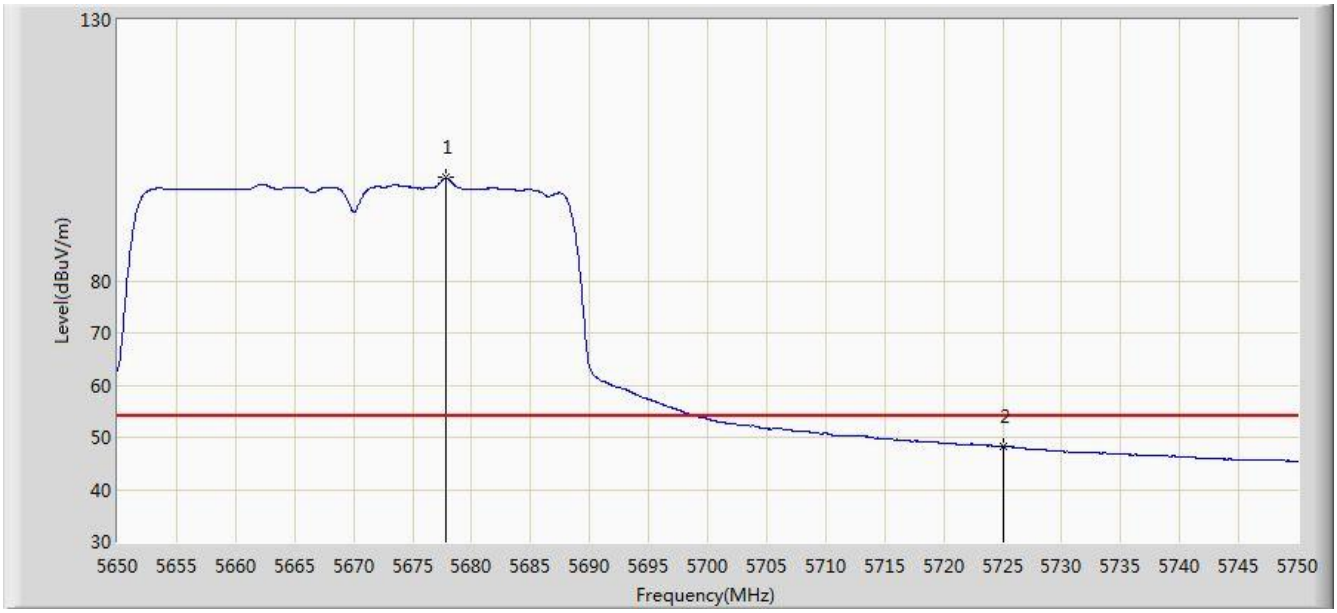
| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 08:46 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5670MHz Ant 0 + 1 + 2 + 3 | |

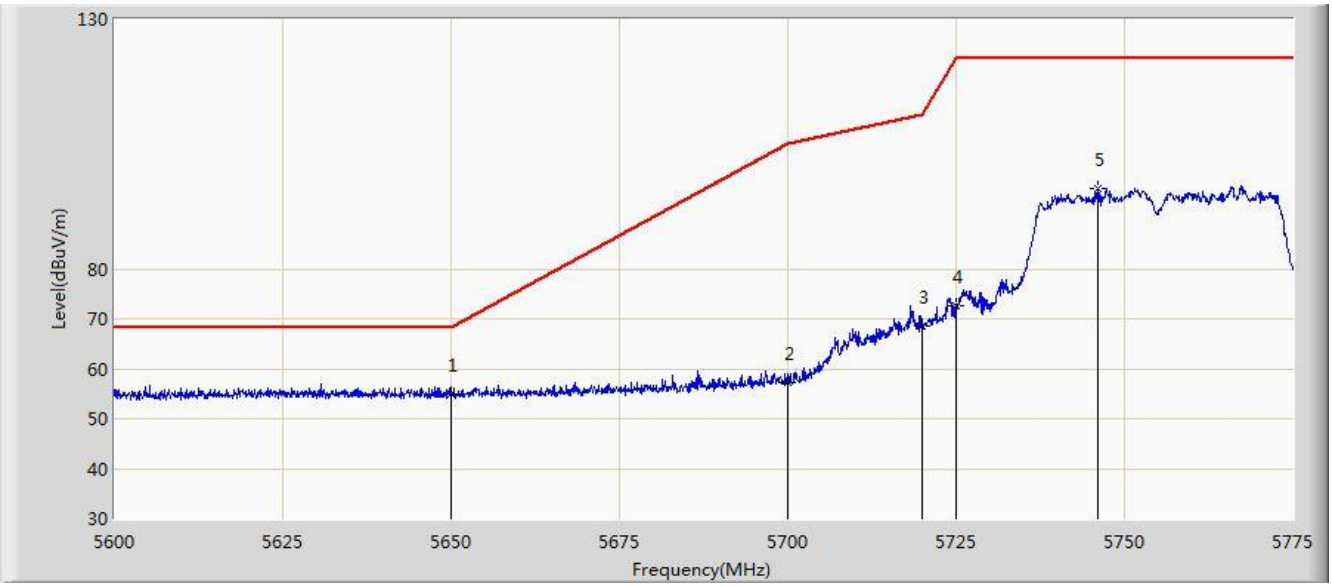



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5677.850 | 99.727 | 96.052 | N/A | N/A | 3.675 | AV |
| 2 | | | 5725.000 | 48.239 | 44.448 | -5.761 | 54.000 | 3.791 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 16:47 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 0 + 1 + 2 + 3 | |

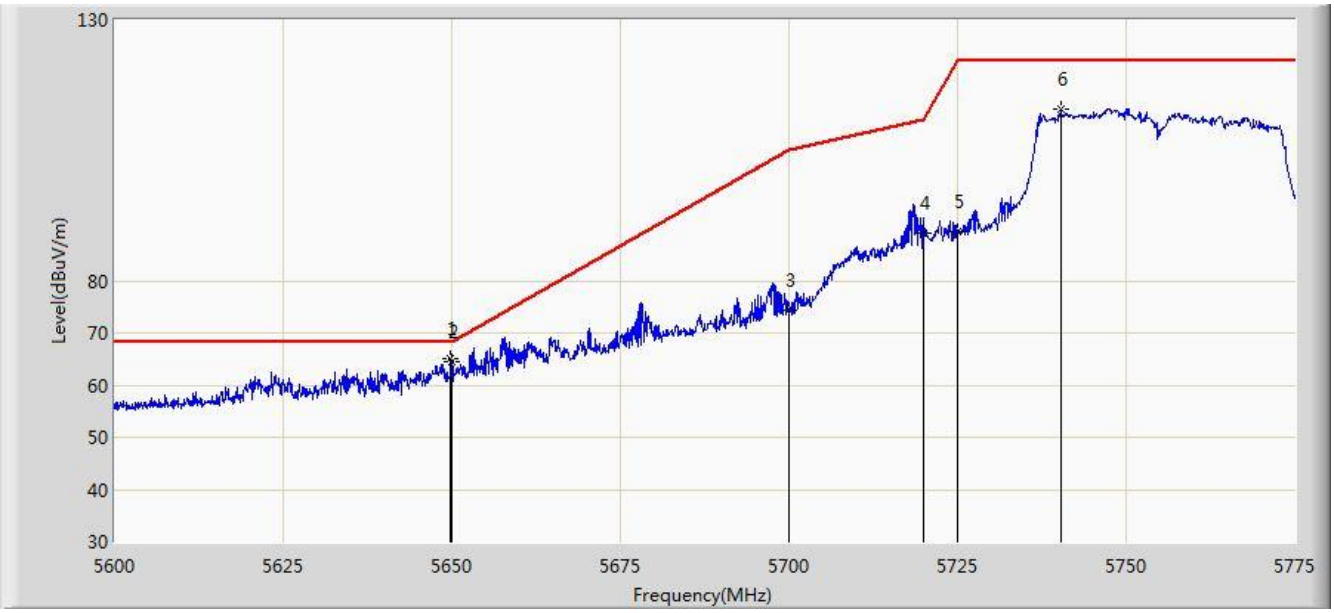



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5650.000 | 54.943 | 51.316 | -13.257 | 68.200 | 3.627 | PK |
| 2 | | | 5700.000 | 57.226 | 53.507 | -47.974 | 105.200 | 3.719 | PK |
| 3 | | | 5720.000 | 68.639 | 64.863 | -42.161 | 110.800 | 3.776 | PK |
| 4 | | | 5725.000 | 72.467 | 68.676 | -49.733 | 122.200 | 3.791 | PK |
| 5 | | | 5745.950 | 96.100 | 92.244 | N/A | N/A | 3.856 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 16:46 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 0 + 1 + 2 + 3 | |

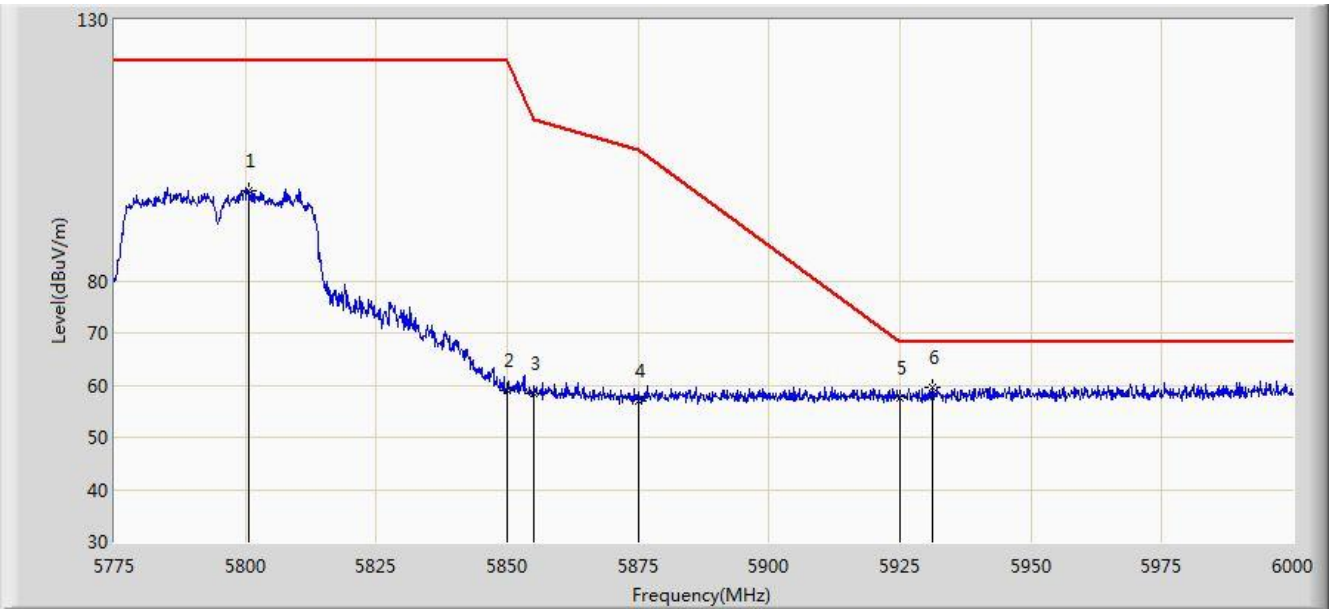



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5649.875 | 64.932 | 61.305 | -3.268 | 68.200 | 3.627 | PK |
| 2 | | | 5650.000 | 64.371 | 60.744 | -3.829 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 74.317 | 70.598 | -30.883 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 89.034 | 85.258 | -21.766 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 89.515 | 85.724 | -32.685 | 122.200 | 3.791 | PK |
| 6 | | | 5740.263 | 112.895 | 109.057 | N/A | N/A | 3.838 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:09 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 0 + 1 + 2 + 3 | |

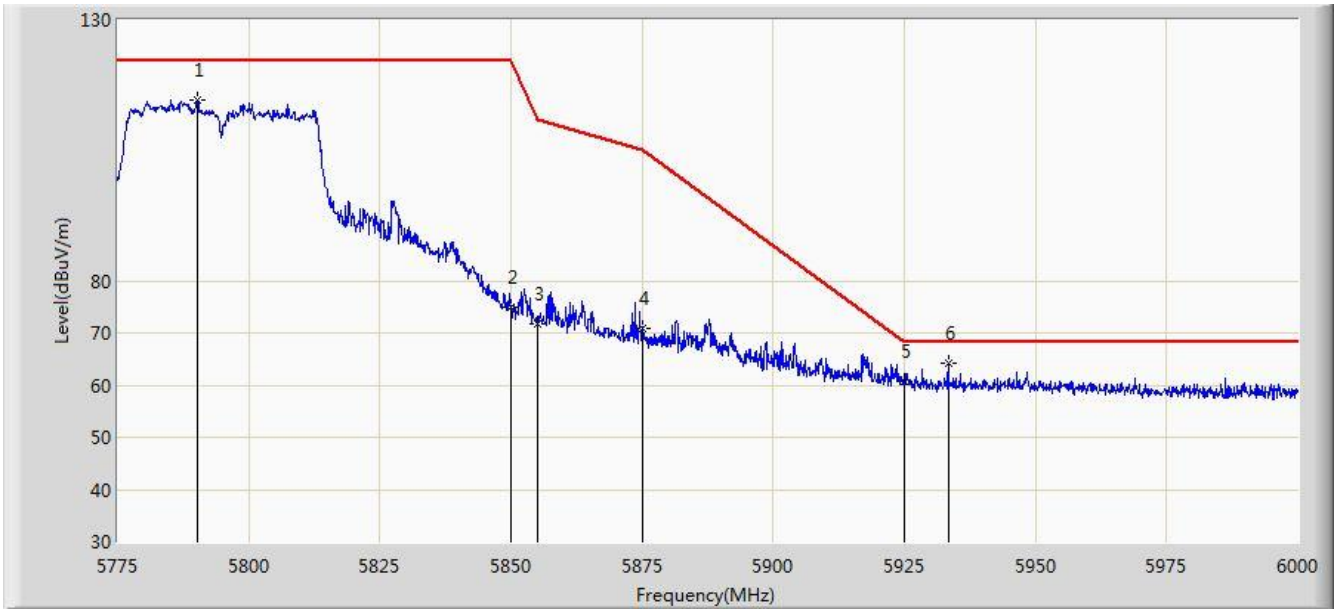



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5800.538 | 97.308 | 93.347 | N/A | N/A | 3.960 | PK |
| 2 | | | 5850.000 | 59.128 | 55.071 | -63.072 | 122.200 | 4.058 | PK |
| 3 | | | 5855.000 | 58.543 | 54.483 | -52.257 | 110.800 | 4.060 | PK |
| 4 | | | 5875.000 | 56.860 | 52.755 | -48.340 | 105.200 | 4.105 | PK |
| 5 | | | 5925.000 | 57.624 | 53.371 | -10.576 | 68.200 | 4.254 | PK |
| 6 | | * | 5931.263 | 59.566 | 55.299 | -8.634 | 68.200 | 4.267 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:08 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 0 + 1 + 2 + 3 | |

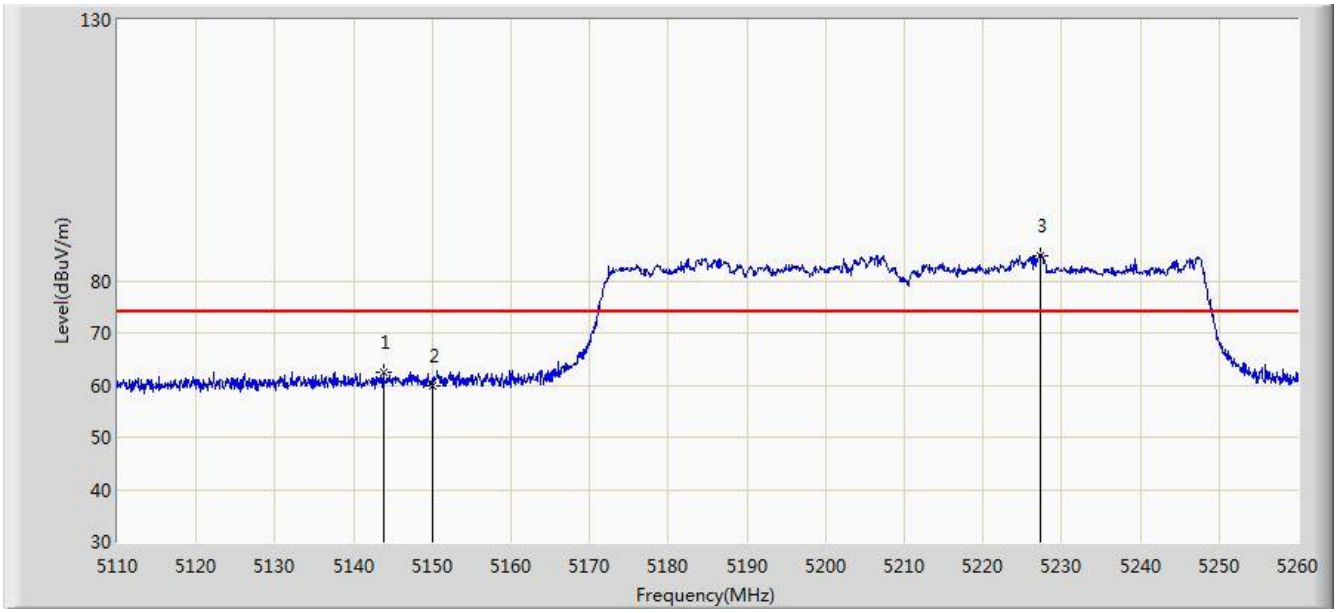



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5790.300 | 114.651 | 110.705 | N/A | N/A | 3.946 | PK |
| 2 | | | 5850.000 | 75.042 | 70.985 | -47.158 | 122.200 | 4.058 | PK |
| 3 | | | 5855.000 | 71.828 | 67.768 | -38.972 | 110.800 | 4.060 | PK |
| 4 | | | 5875.000 | 70.925 | 66.820 | -34.275 | 105.200 | 4.105 | PK |
| 5 | | | 5925.000 | 60.826 | 56.573 | -7.374 | 68.200 | 4.254 | PK |
| 6 | | * | 5933.400 | 64.068 | 59.800 | -4.132 | 68.200 | 4.268 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:26 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 0 + 1 + 2 + 3 | |

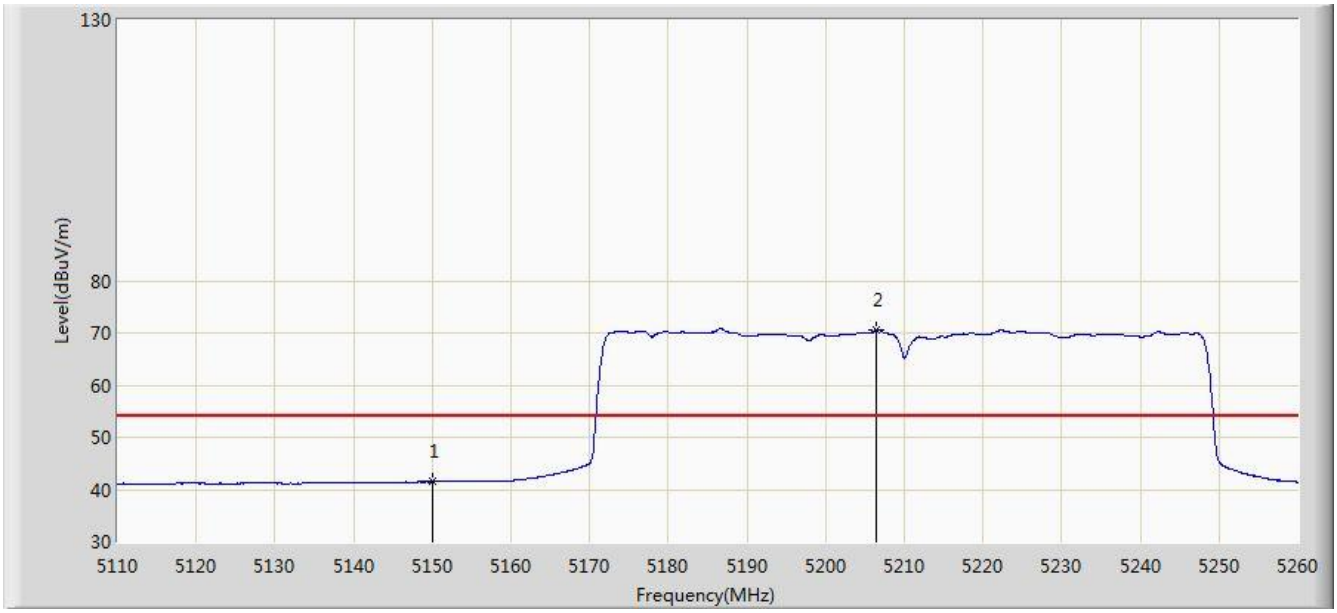



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5143.750 | 62.523 | 59.214 | -11.477 | 74.000 | 3.310 | PK |
| 2 | | | 5150.000 | 59.944 | 56.635 | -14.056 | 74.000 | 3.309 | PK |
| 3 | | * | 5227.225 | 84.893 | 81.689 | N/A | N/A | 3.204 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:28 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 0 + 1 + 2 + 3 | |

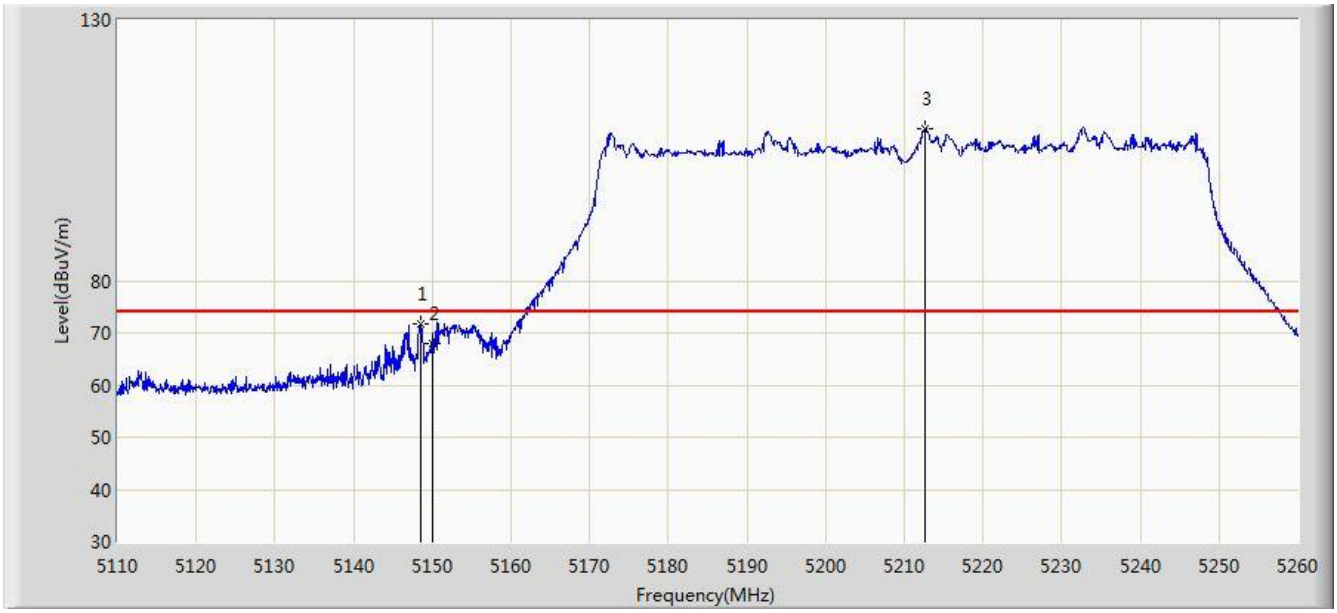



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 41.495 | 38.186 | -12.505 | 54.000 | 3.309 | AV |
| 2 | | * | 5206.450 | 70.546 | 67.312 | N/A | N/A | 3.234 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:22 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 0 + 1 + 2 + 3 | |

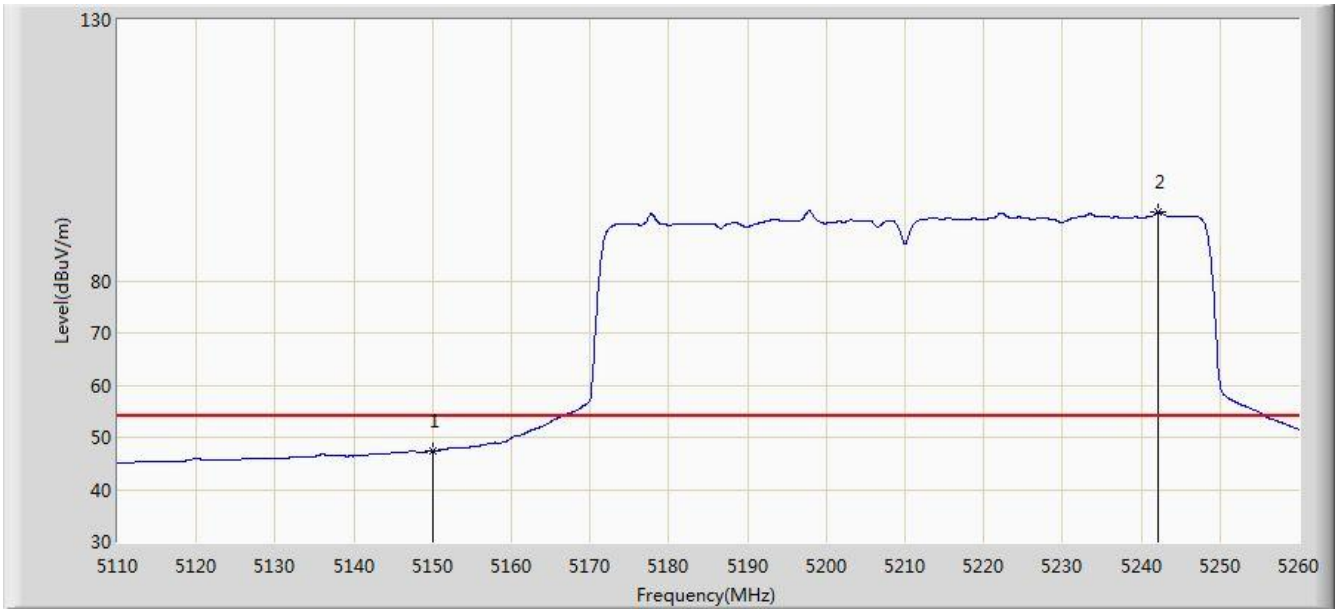



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5148.550 | 71.628 | 68.319 | -2.372 | 74.000 | 3.309 | PK |
| 2 | | | 5150.000 | 68.088 | 64.779 | -5.912 | 74.000 | 3.309 | PK |
| 3 | | * | 5212.600 | 109.074 | 105.852 | N/A | N/A | 3.222 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:24 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 0 + 1 + 2 + 3 | |

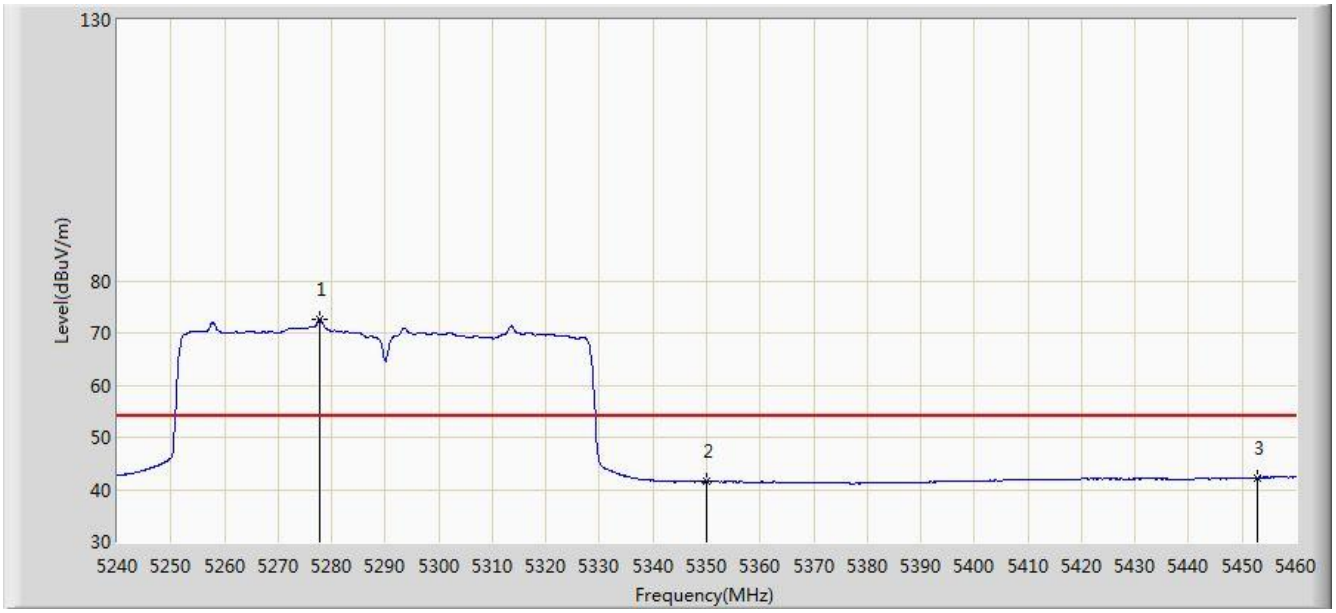



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 47.401 | 44.092 | -6.599 | 54.000 | 3.309 | AV |
| 2 | | * | 5242.225 | 93.281 | 90.094 | N/A | N/A | 3.186 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 08:59 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5290MHz Ant 0 + 1 + 2 + 3 | |

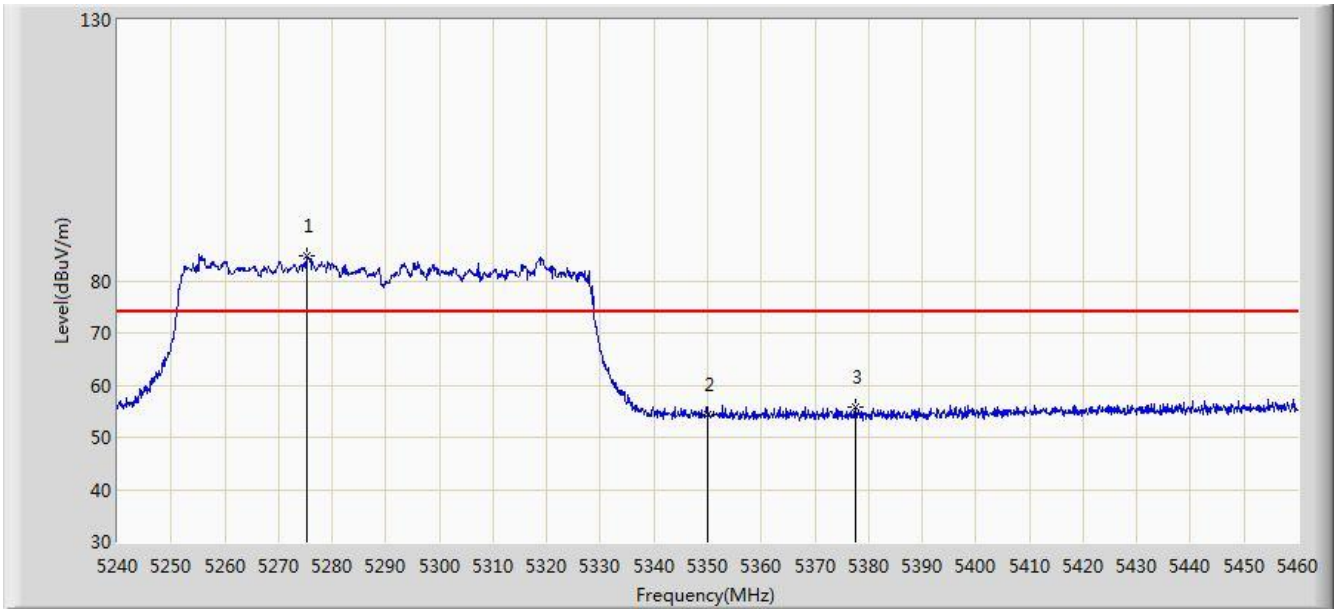



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5277.840 | 72.541 | 69.357 | N/A | N/A | 3.184 | AV |
| 2 | | | 5350.000 | 41.478 | 38.446 | -12.522 | 54.000 | 3.032 | AV |
| 3 | | | 5452.960 | 42.270 | 38.829 | -11.730 | 54.000 | 3.442 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 08:57 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5290MHz Ant 0 + 1 + 2 + 3 | |

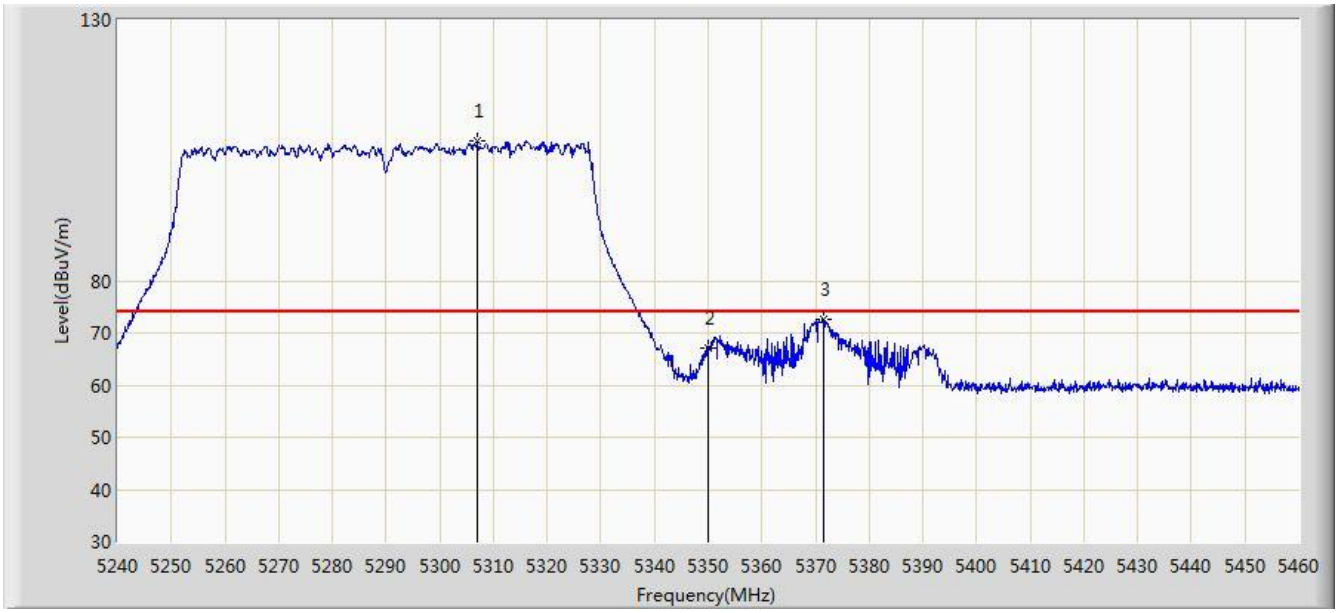



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5275.310 | 84.786 | 81.600 | N/A | N/A | 3.186 | PK |
| 2 | | | 5350.000 | 54.346 | 51.314 | -19.654 | 74.000 | 3.032 | PK |
| 3 | | | 5377.500 | 55.730 | 52.703 | -18.270 | 74.000 | 3.027 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 08:54 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5290MHz Ant 0 + 1 + 2 + 3 | |

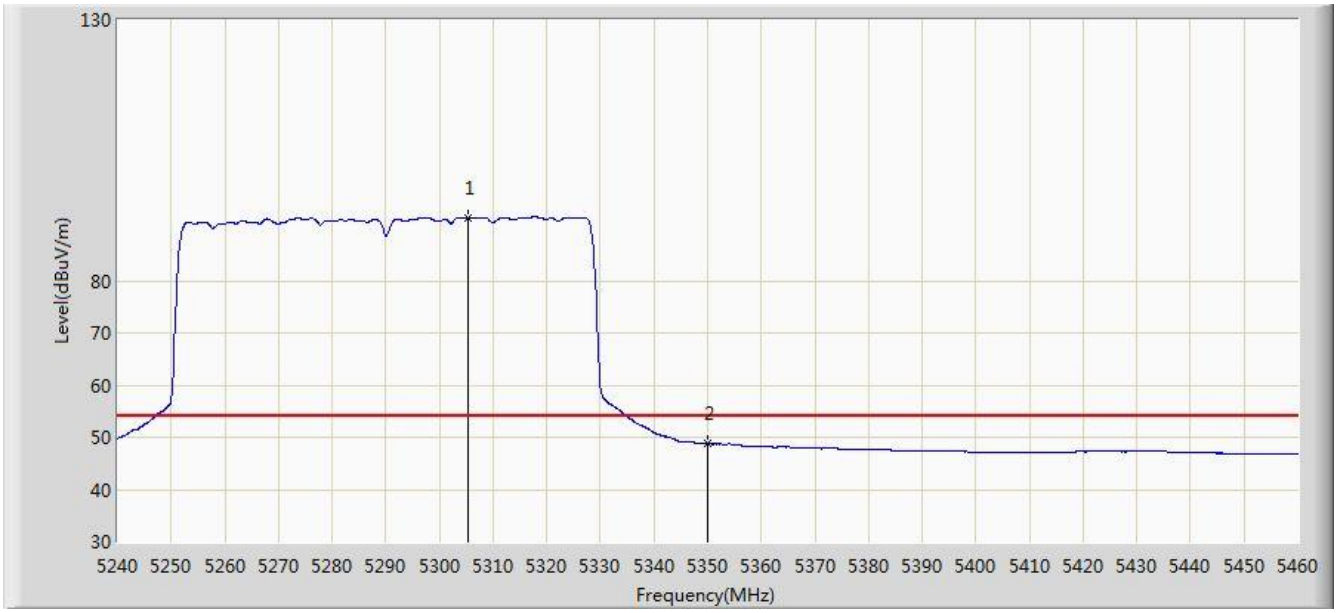



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5307.100 | 106.927 | 103.824 | N/A | N/A | 3.103 | PK |
| 2 | | | 5350.000 | 67.120 | 64.088 | -6.880 | 74.000 | 3.032 | PK |
| 3 | | | 5371.450 | 72.624 | 69.608 | -1.376 | 74.000 | 3.016 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 08:56 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5290MHz Ant 0 + 1 + 2 + 3 | |

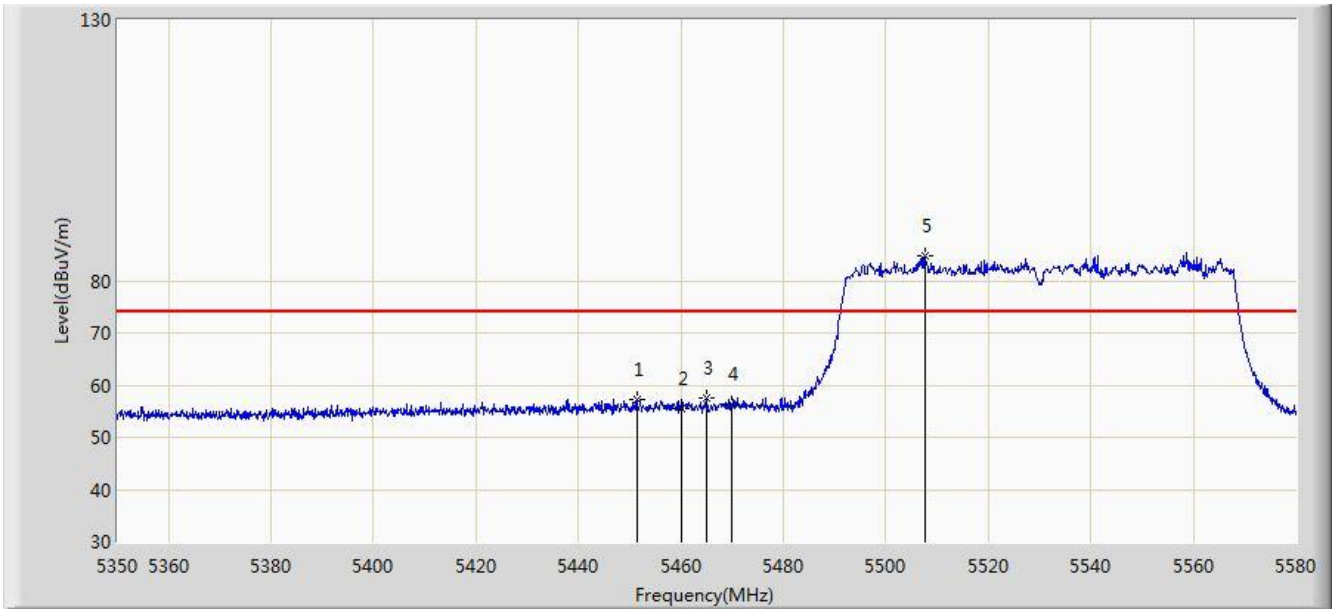



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5305.340 | 92.057 | 88.949 | N/A | N/A | 3.107 | AV |
| 2 | | | 5350.000 | 48.741 | 45.709 | -5.259 | 54.000 | 3.032 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 09:18 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5530MHz Ant 0 + 1 + 2 + 3 | |

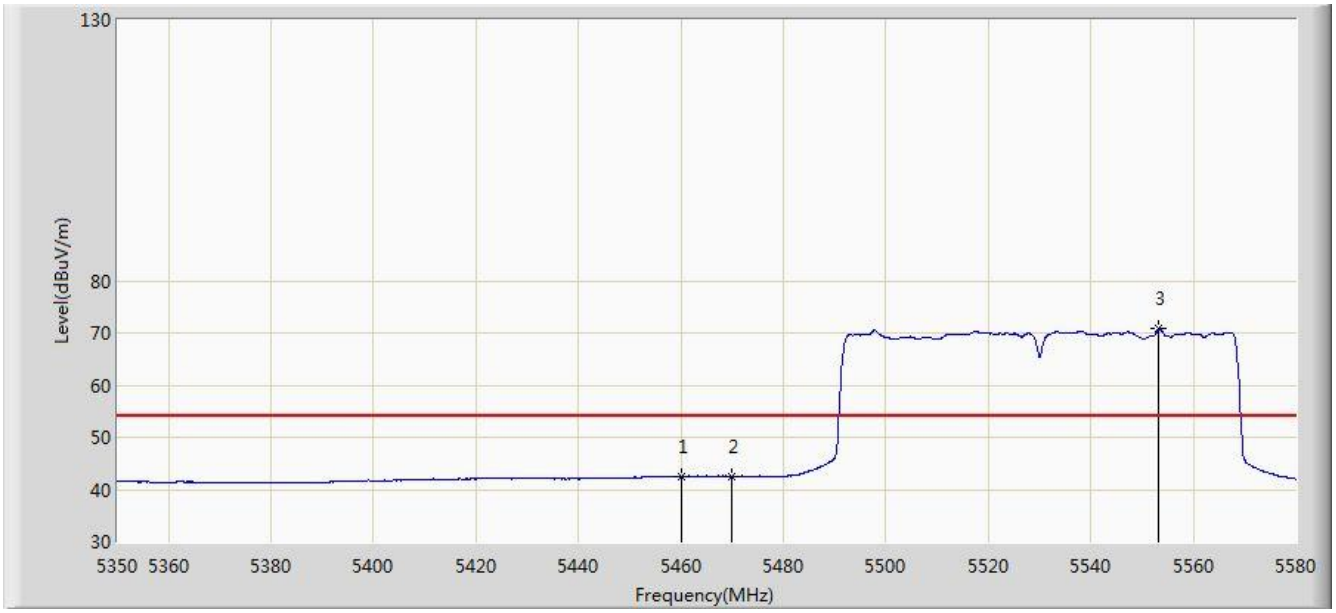



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5451.430 | 57.177 | 53.743 | -16.823 | 74.000 | 3.435 | PK |
| 2 | | | 5460.000 | 55.401 | 51.919 | -18.599 | 74.000 | 3.482 | PK |
| 3 | | | 5464.885 | 57.408 | 53.898 | -16.592 | 74.000 | 3.510 | PK |
| 4 | | | 5470.000 | 56.441 | 52.902 | -17.559 | 74.000 | 3.539 | PK |
| 5 | | * | 5507.665 | 84.668 | 81.150 | N/A | N/A | 3.517 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 09:20 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5530MHz Ant 0 + 1 + 2 + 3 | |

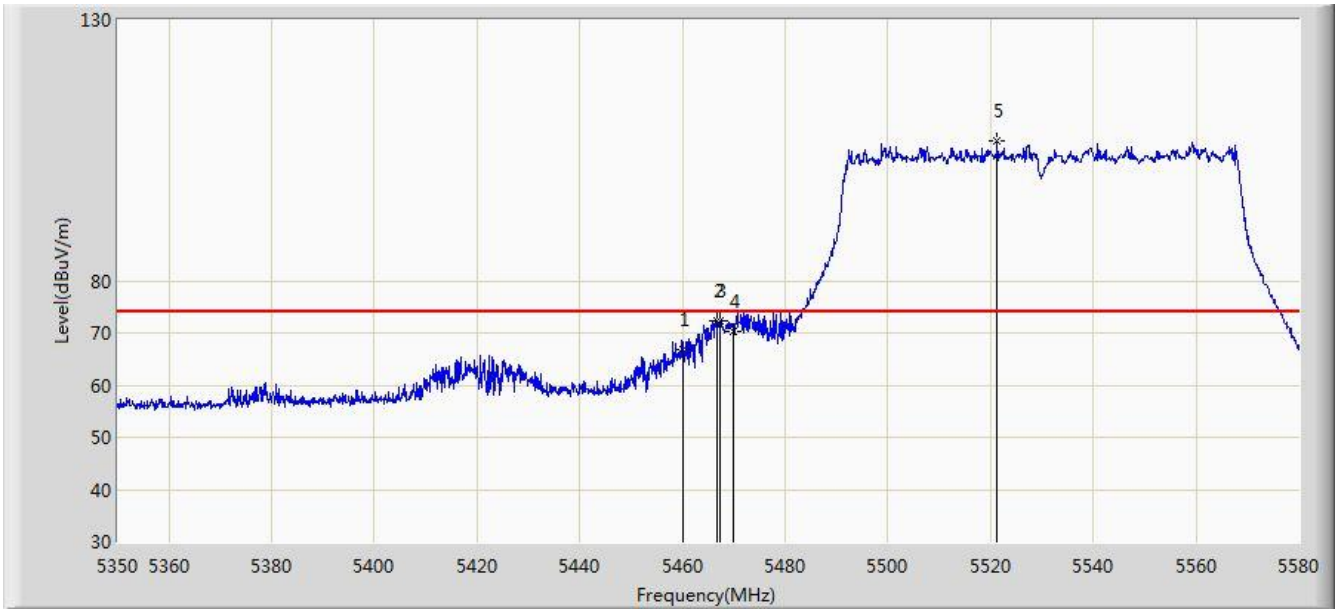



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 42.514 | 39.032 | -11.486 | 54.000 | 3.482 | AV |
| 2 | | | 5470.000 | 42.479 | 38.940 | -11.521 | 54.000 | 3.539 | AV |
| 3 | | * | 5553.320 | 70.853 | 67.364 | N/A | N/A | 3.489 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 09:14 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5530MHz Ant 0 + 1 + 2 + 3 | |

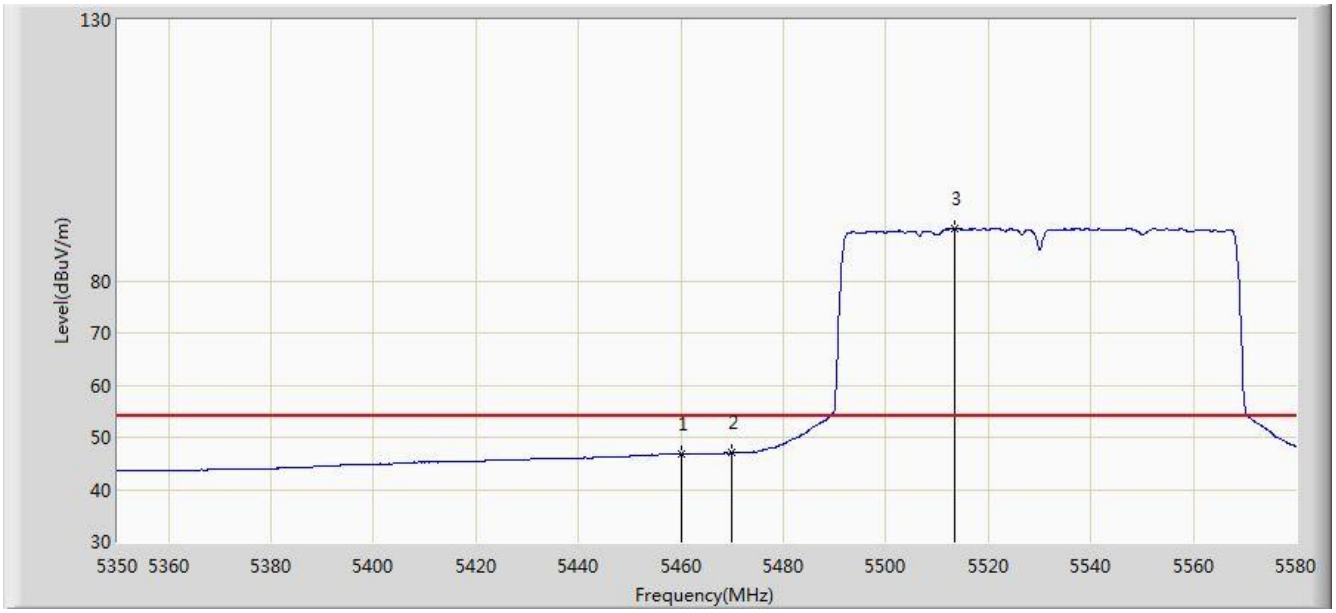



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 66.700 | 63.218 | -7.300 | 74.000 | 3.482 | PK |
| 2 | | | 5466.840 | 72.254 | 68.733 | -1.746 | 74.000 | 3.521 | PK |
| 3 | | | 5467.300 | 72.446 | 68.922 | -1.554 | 74.000 | 3.523 | PK |
| 4 | | | 5470.000 | 70.165 | 66.626 | -3.835 | 74.000 | 3.539 | PK |
| 5 | | * | 5521.235 | 106.712 | 103.208 | N/A | N/A | 3.504 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 09:17 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5530MHz Ant 0 + 1 + 2 + 3 | |

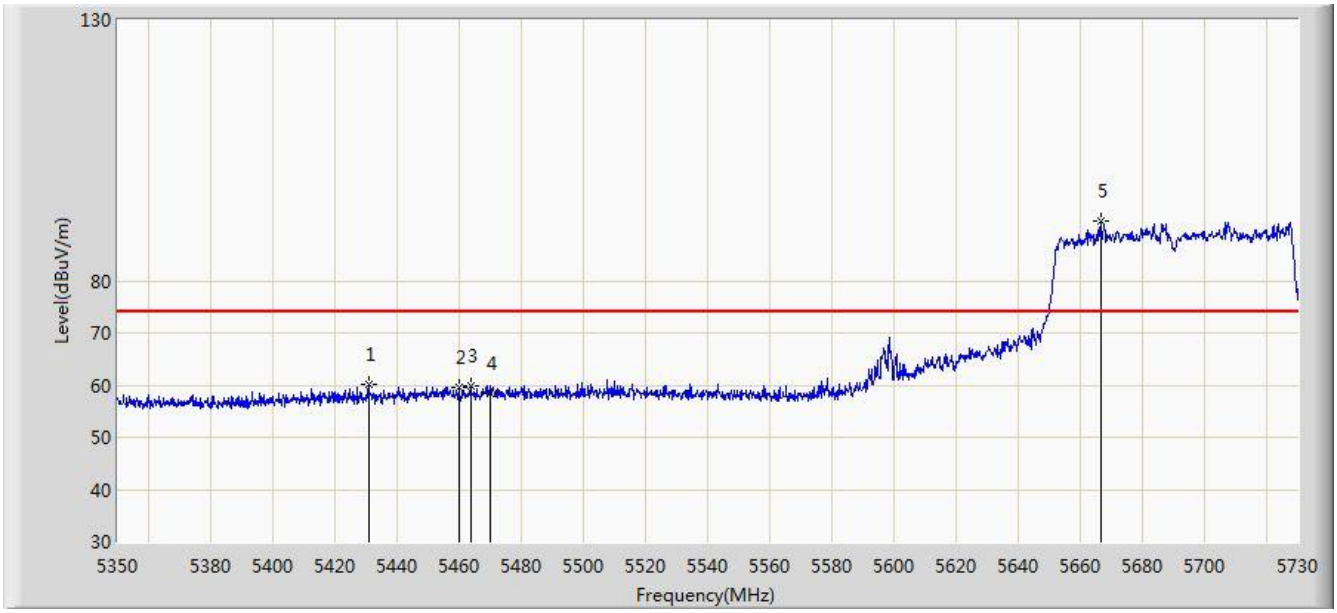



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 46.690 | 43.208 | -7.310 | 54.000 | 3.482 | AV |
| 2 | | | 5470.000 | 46.996 | 43.457 | -7.004 | 54.000 | 3.539 | AV |
| 3 | | * | 5513.415 | 89.939 | 86.427 | N/A | N/A | 3.512 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 16:19 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5690MHz Ant 0 + 1 + 2 + 3 | |

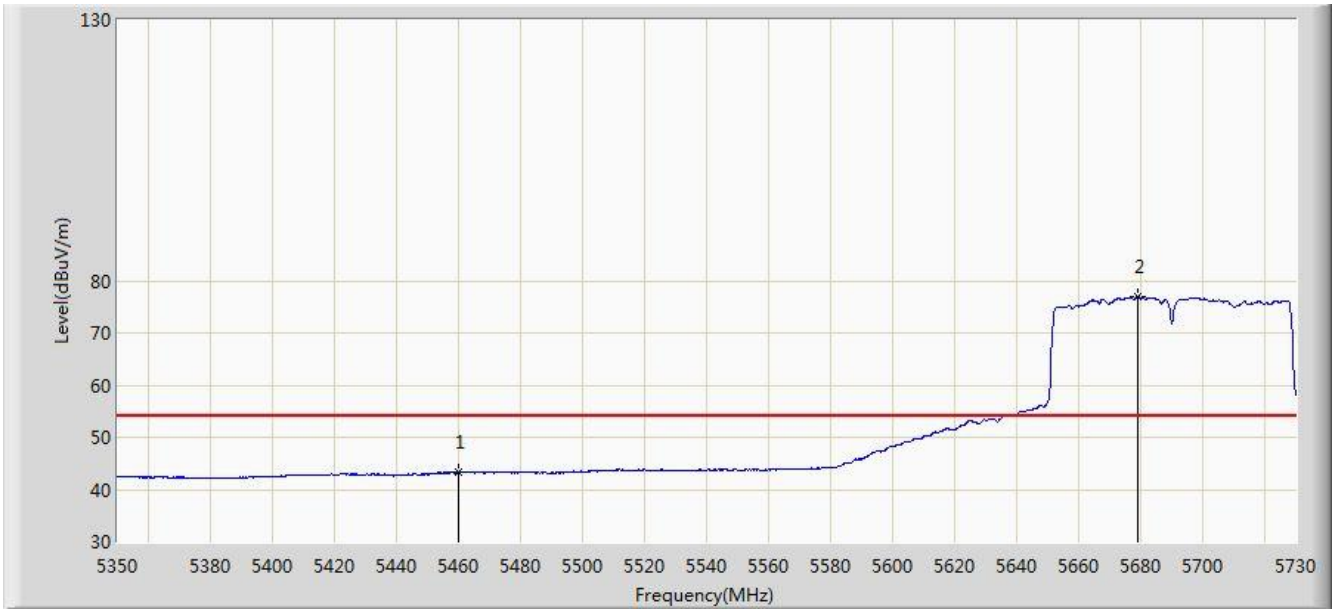



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5430.940 | 60.077 | 56.735 | -13.923 | 74.000 | 3.342 | PK |
| 2 | | | 5460.000 | 59.479 | 55.997 | -14.521 | 74.000 | 3.482 | PK |
| 3 | | | 5463.620 | 59.810 | 56.307 | -14.190 | 74.000 | 3.503 | PK |
| 4 | | | 5470.000 | 58.541 | 55.002 | -15.459 | 74.000 | 3.539 | PK |
| 5 | | * | 5666.540 | 91.343 | 87.687 | N/A | N/A | 3.655 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 16:22 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5690MHz Ant 0 + 1 + 2 + 3 | |

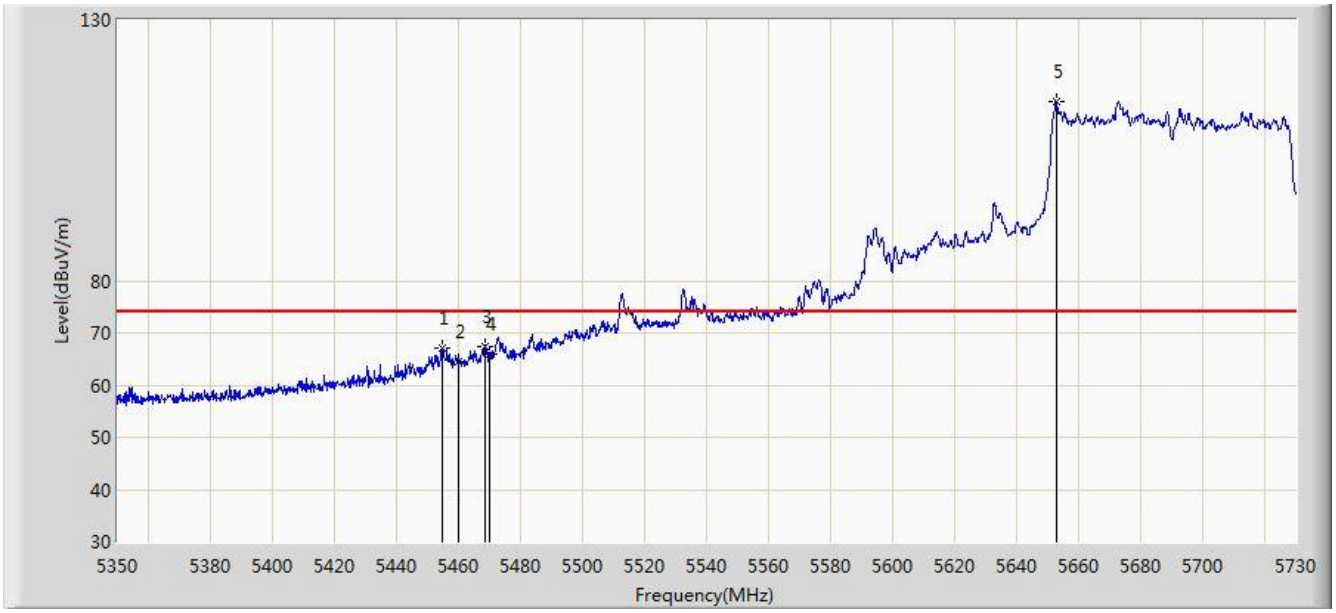



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 43.266 | 39.784 | -10.734 | 54.000 | 3.482 | AV |
| 2 | | * | 5679.270 | 76.875 | 73.197 | N/A | N/A | 3.678 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 16:14 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5690MHz Ant 0 + 1 + 2 + 3 | |

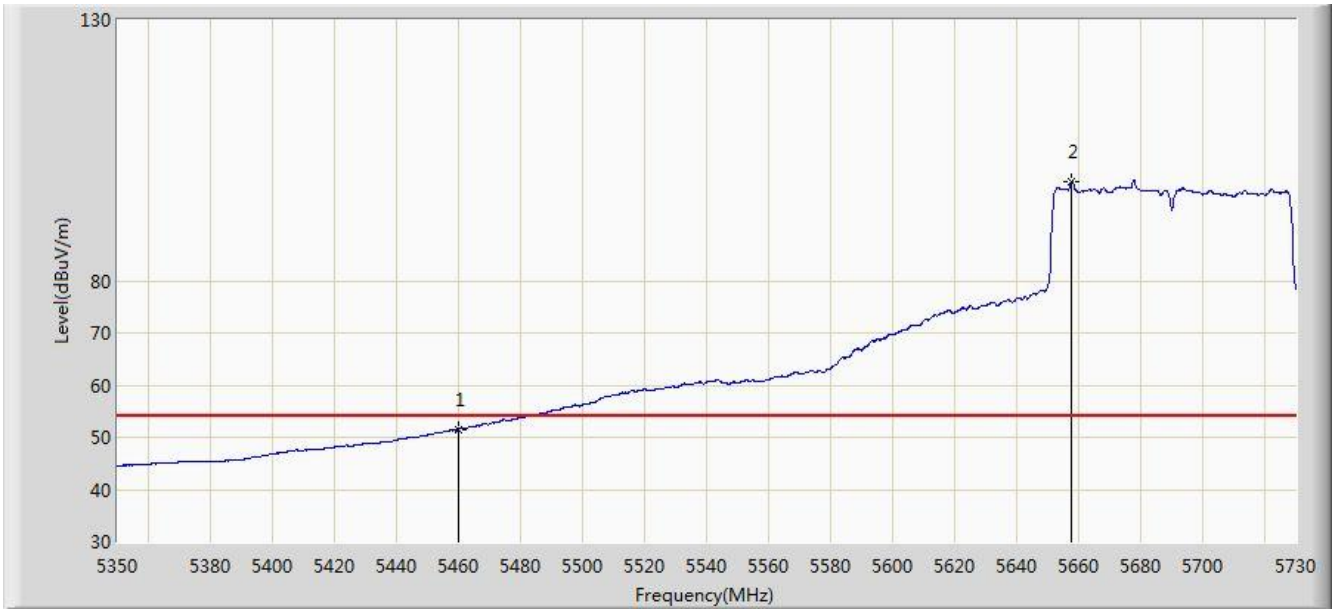



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5454.690 | 67.209 | 63.759 | -6.791 | 74.000 | 3.450 | PK |
| 2 | | | 5460.000 | 64.406 | 60.924 | -9.594 | 74.000 | 3.482 | PK |
| 3 | | | 5468.370 | 67.525 | 63.995 | -6.475 | 74.000 | 3.530 | PK |
| 4 | | | 5470.000 | 65.922 | 62.383 | -8.078 | 74.000 | 3.539 | PK |
| 5 | | * | 5652.670 | 114.395 | 110.762 | N/A | N/A | 3.633 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/04 - 16:16 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5690MHz Ant 0 + 1 + 2 + 3 | |

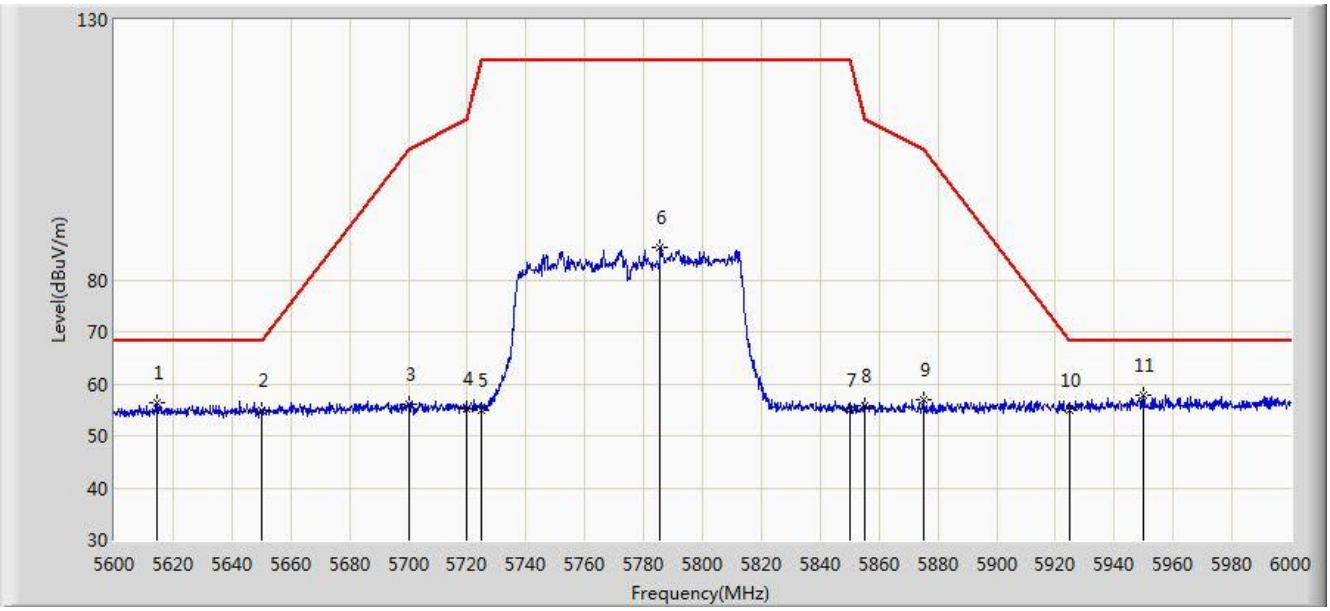



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 51.569 | 48.087 | -2.431 | 54.000 | 3.482 | AV |
| 2 | | * | 5657.610 | 98.932 | 95.290 | N/A | N/A | 3.642 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:53 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 0 + 1 + 2 + 3 | |

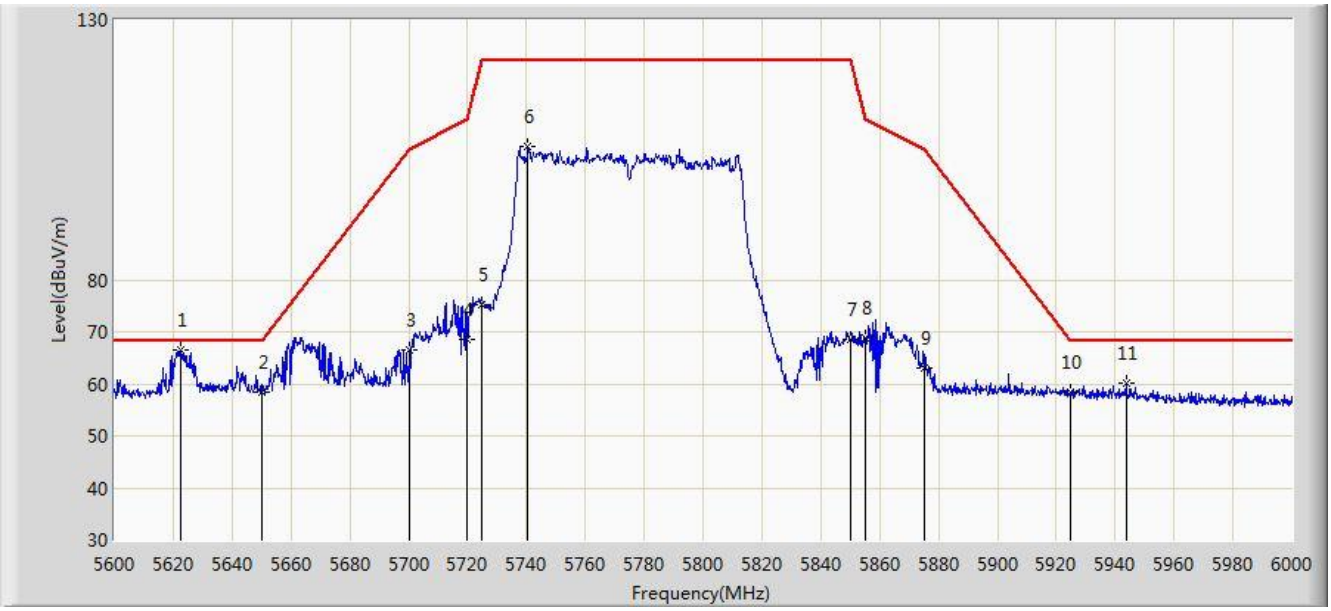



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5614.600 | 56.479 | 52.953 | -11.721 | 68.200 | 3.525 | PK |
| 2 | | | 5650.000 | 54.905 | 51.278 | -13.295 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 56.092 | 52.373 | -49.108 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 55.222 | 51.446 | -55.578 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 55.000 | 51.209 | -67.200 | 122.200 | 3.791 | PK |
| 6 | | | 5785.600 | 86.104 | 82.167 | N/A | N/A | 3.937 | PK |
| 7 | | | 5850.000 | 54.943 | 50.886 | -67.257 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 55.825 | 51.765 | -54.975 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 56.942 | 52.837 | -48.258 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 54.850 | 50.597 | -13.350 | 68.200 | 4.254 | PK |
| 11 | | * | 5950.000 | 57.737 | 53.462 | -10.463 | 68.200 | 4.274 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 17:50 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Bruce Wang |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 0 + 1 + 2 + 3 | |

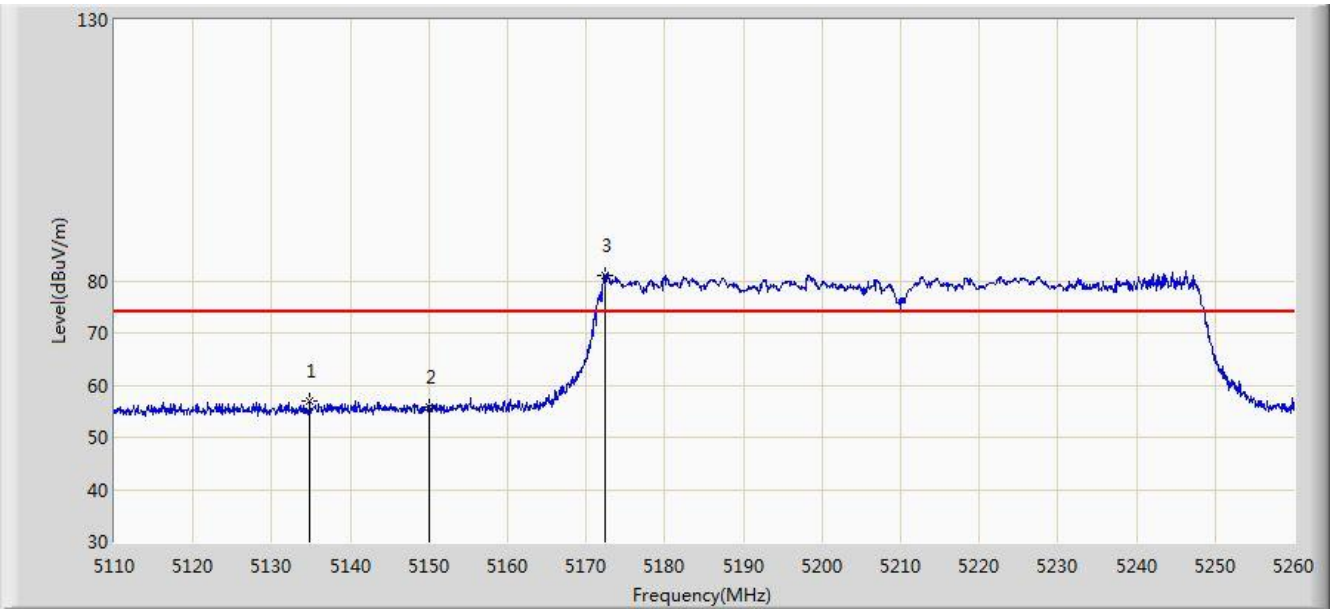



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5622.600 | 66.579 | 63.030 | -1.621 | 68.200 | 3.548 | PK |
| 2 | | | 5650.000 | 58.412 | 54.785 | -9.788 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 66.544 | 62.825 | -38.656 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 68.500 | 64.724 | -42.300 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 75.209 | 71.418 | -46.991 | 122.200 | 3.791 | PK |
| 6 | | | 5740.400 | 105.516 | 101.678 | N/A | N/A | 3.838 | PK |
| 7 | | | 5850.000 | 68.556 | 64.499 | -53.644 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 68.936 | 64.876 | -41.864 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 62.937 | 58.832 | -42.263 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 58.451 | 54.198 | -9.749 | 68.200 | 4.254 | PK |
| 11 | | | 5943.800 | 60.049 | 55.777 | -8.151 | 68.200 | 4.272 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 20:47 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

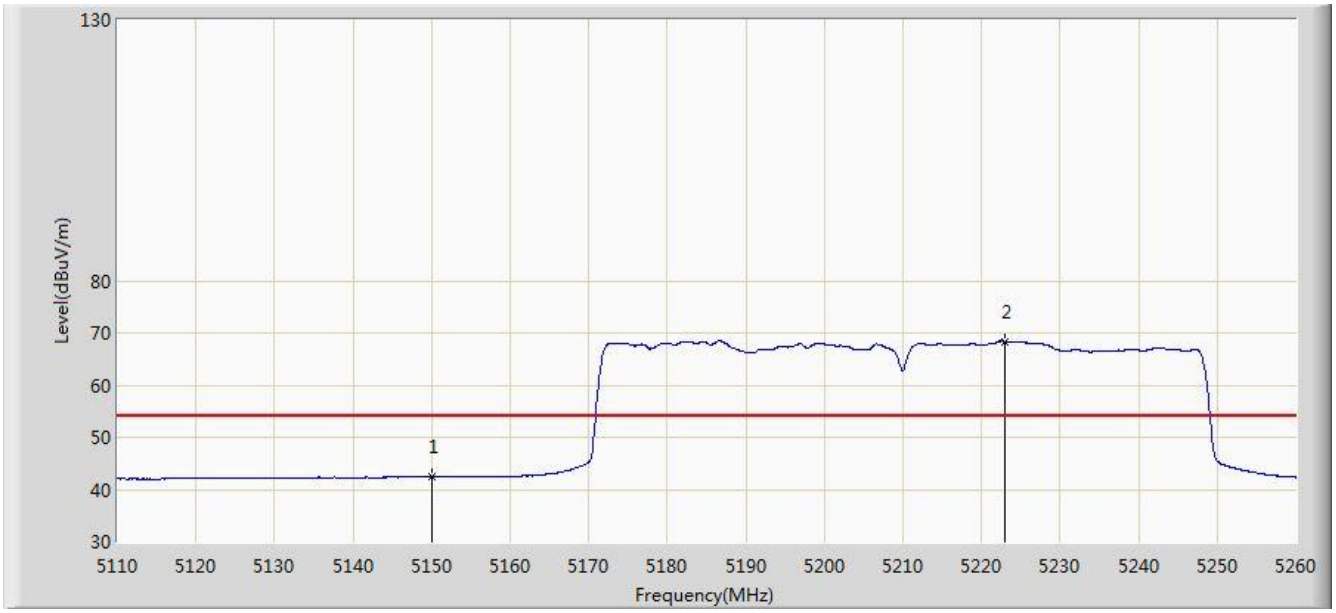



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5134.900 | 56.960 | 53.651 | -17.040 | 74.000 | 3.309 | PK |
| 2 | | | 5150.000 | 55.675 | 52.366 | -18.325 | 74.000 | 3.309 | PK |
| 3 | | * | 5172.475 | 81.103 | 77.824 | N/A | N/A | 3.280 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 20:49 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

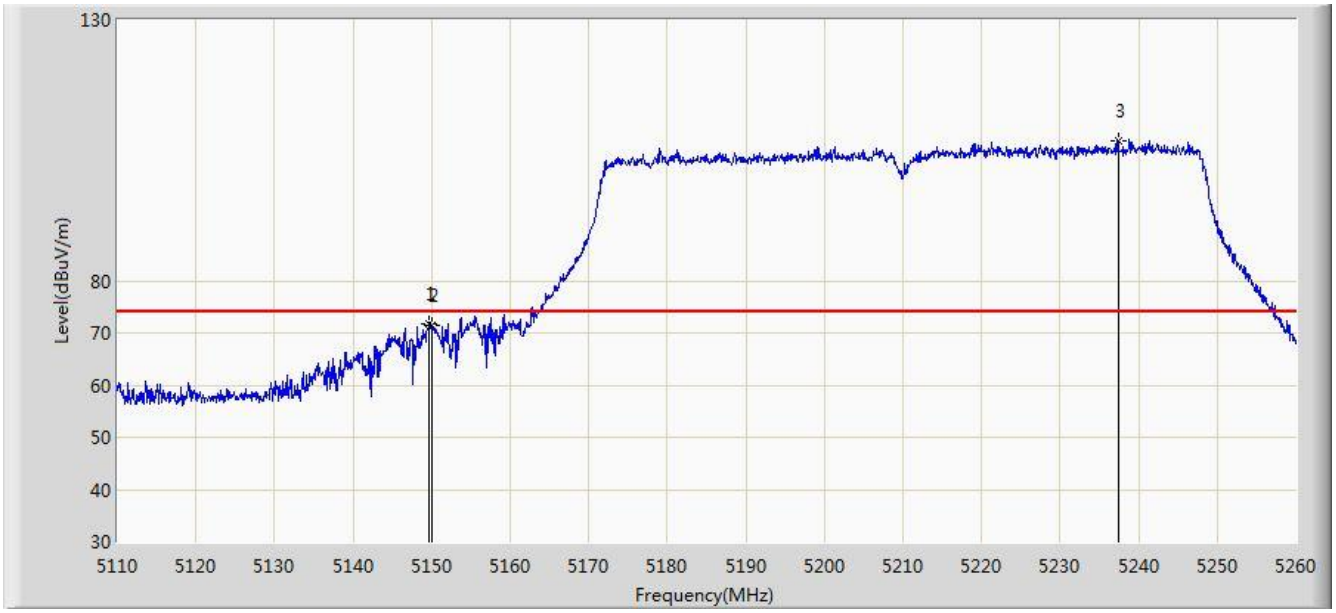



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 42.382 | 39.073 | -11.618 | 54.000 | 3.309 | AV |
| 2 | | * | 5223.025 | 68.296 | 65.088 | N/A | N/A | 3.209 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 20:42 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

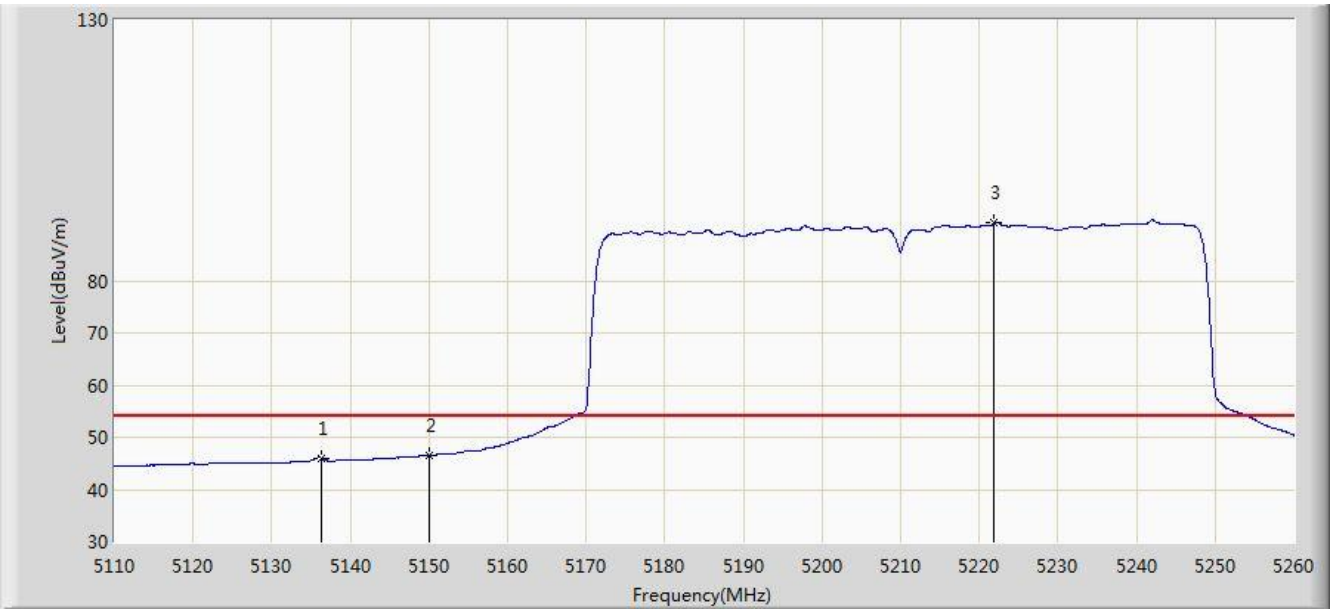



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5149.675 | 71.598 | 68.289 | -2.402 | 74.000 | 3.308 | PK |
| 2 | | | 5150.000 | 71.356 | 68.047 | -2.644 | 74.000 | 3.309 | PK |
| 3 | | * | 5237.425 | 106.877 | 103.684 | N/A | N/A | 3.193 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 20:44 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

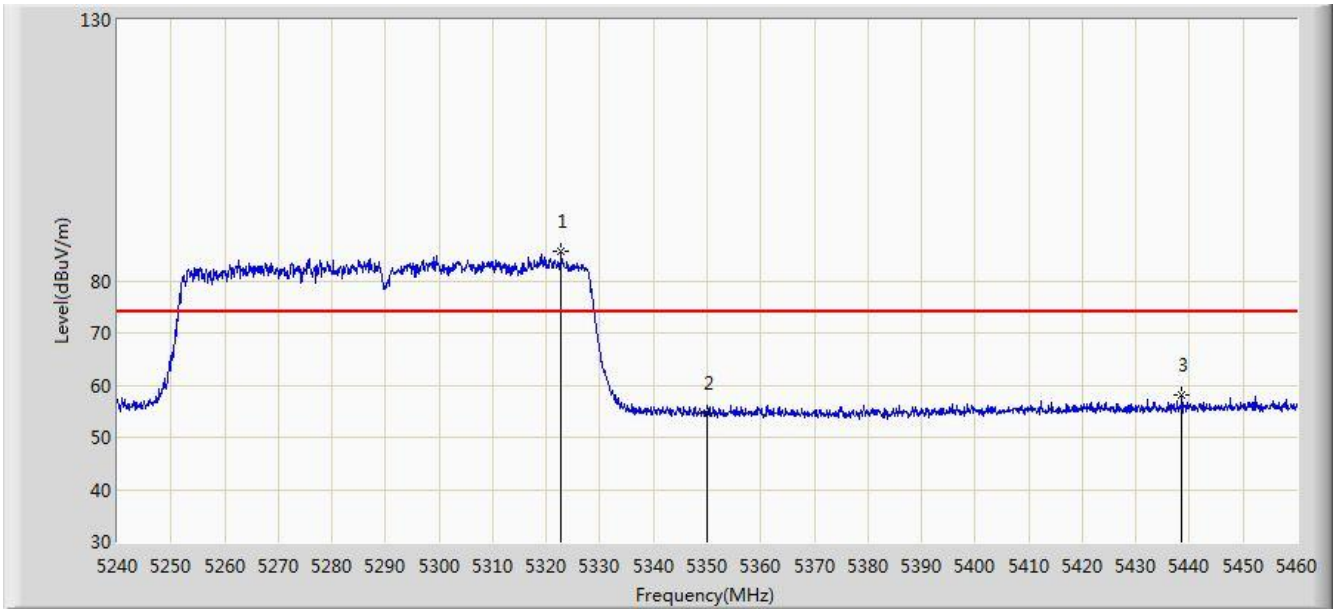



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5136.250 | 46.073 | 42.763 | -7.927 | 54.000 | 3.310 | AV |
| 2 | | | 5150.000 | 46.650 | 43.341 | -7.350 | 54.000 | 3.309 | AV |
| 3 | | * | 5221.900 | 91.089 | 87.880 | N/A | N/A | 3.209 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:41 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

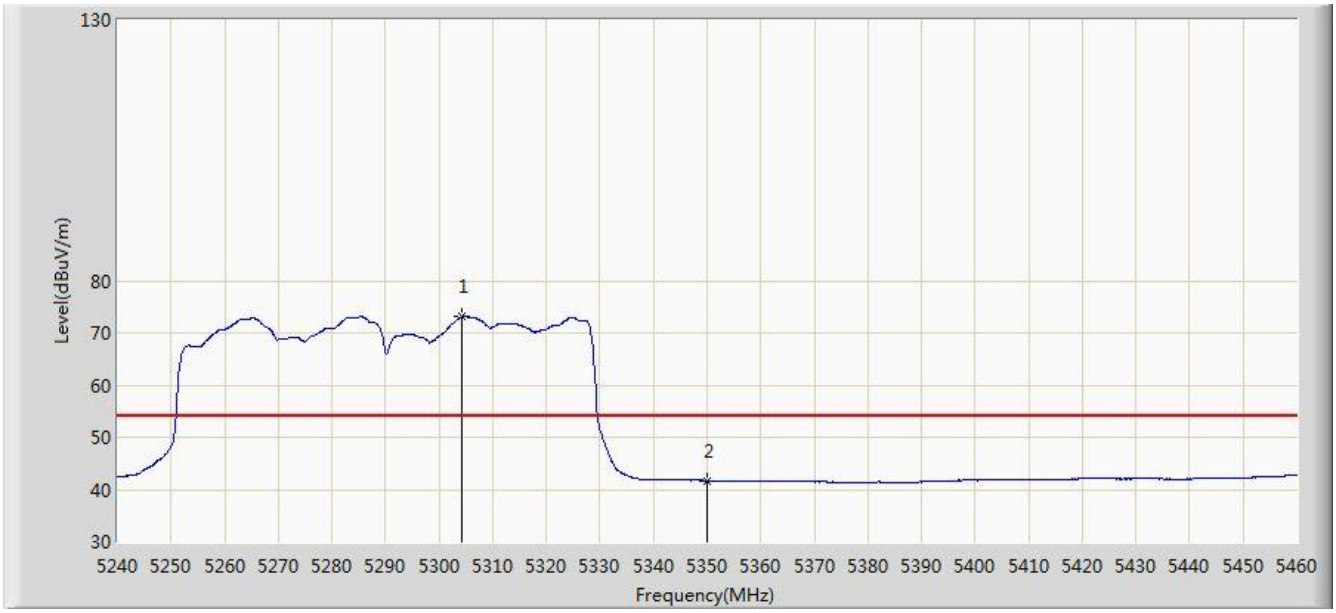



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5322.830 | 85.794 | 82.727 | N/A | N/A | 3.068 | PK |
| 2 | | | 5350.000 | 54.584 | 51.552 | -19.416 | 74.000 | 3.032 | PK |
| 3 | | | 5438.550 | 58.138 | 54.762 | -15.862 | 74.000 | 3.376 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:43 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

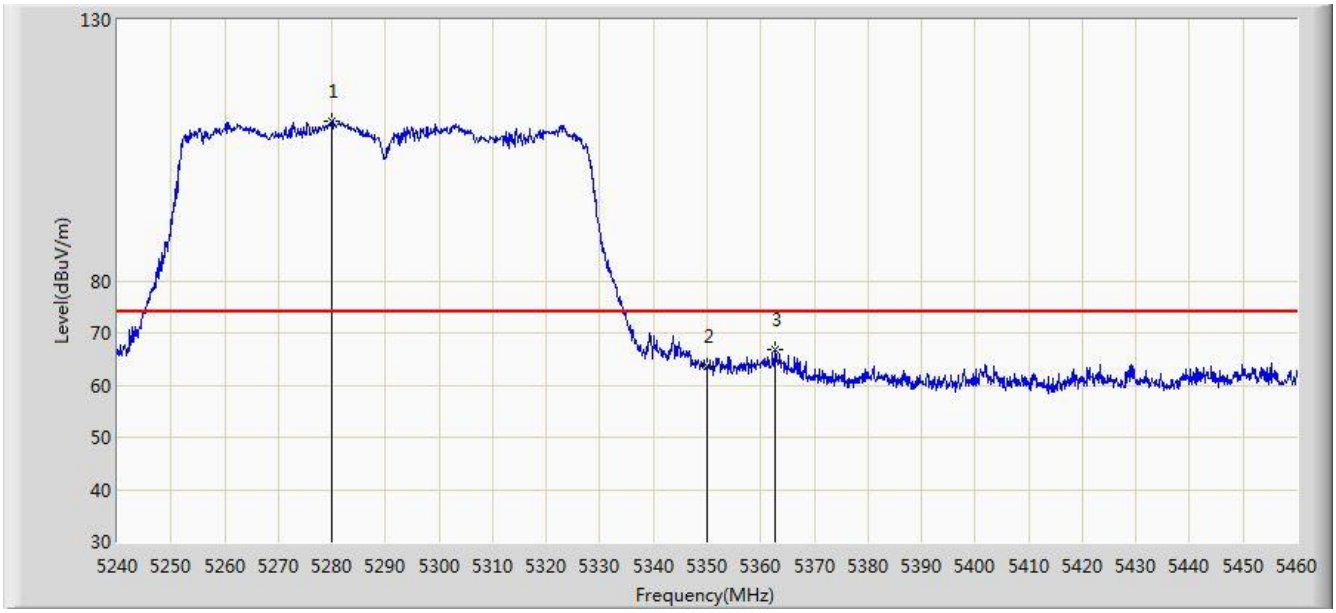



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5304.130 | 73.069 | 69.958 | N/A | N/A | 3.111 | AV |
| 2 | | | 5350.000 | 41.712 | 38.680 | -12.288 | 54.000 | 3.032 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:40 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

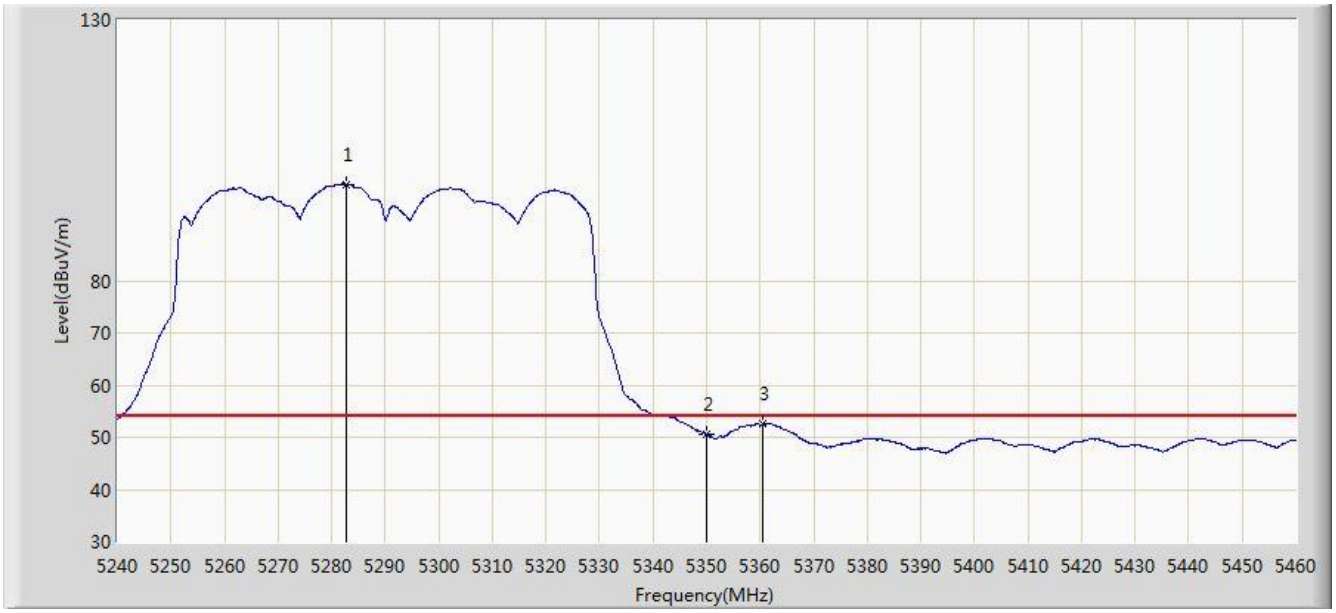



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5279.930 | 110.460 | 107.277 | N/A | N/A | 3.183 | PK |
| 2 | | | 5350.000 | 63.715 | 60.683 | -10.285 | 74.000 | 3.032 | PK |
| 3 | | | 5362.650 | 66.754 | 63.735 | -7.246 | 74.000 | 3.018 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:39 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

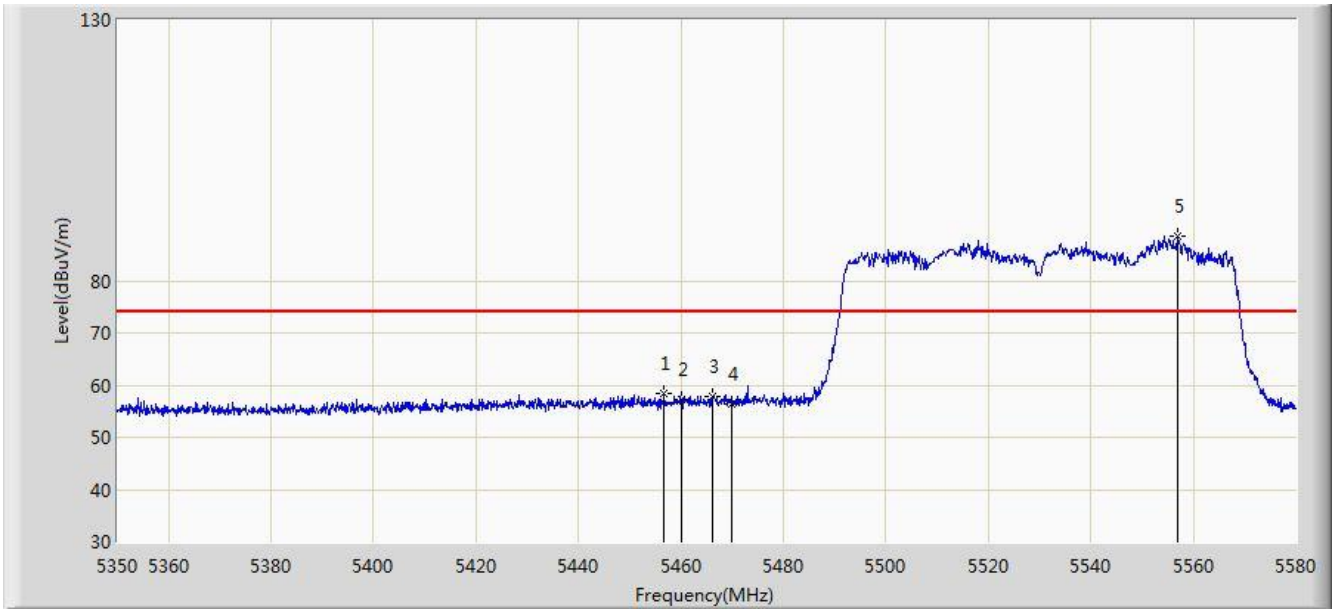



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5282.680 | 98.525 | 95.344 | N/A | N/A | 3.182 | AV |
| 2 | | | 5350.000 | 50.583 | 47.551 | -3.417 | 54.000 | 3.032 | AV |
| 3 | | | 5360.560 | 52.540 | 49.519 | -1.460 | 54.000 | 3.021 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:06 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

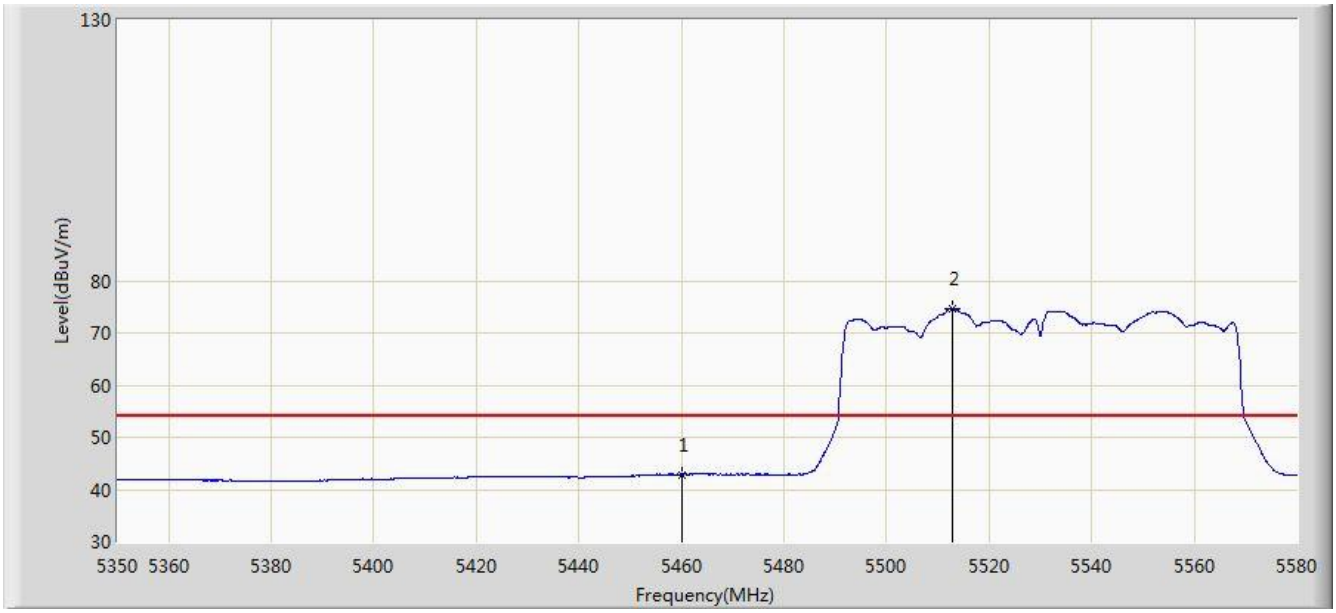



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5456.720 | 58.388 | 54.925 | -15.612 | 74.000 | 3.463 | PK |
| 2 | | | 5460.000 | 57.330 | 53.848 | -16.670 | 74.000 | 3.482 | PK |
| 3 | | | 5466.035 | 57.813 | 54.297 | -16.187 | 74.000 | 3.516 | PK |
| 4 | | | 5470.000 | 56.500 | 52.961 | -17.500 | 74.000 | 3.539 | PK |
| 5 | | * | 5556.885 | 88.562 | 85.077 | N/A | N/A | 3.485 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:07 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

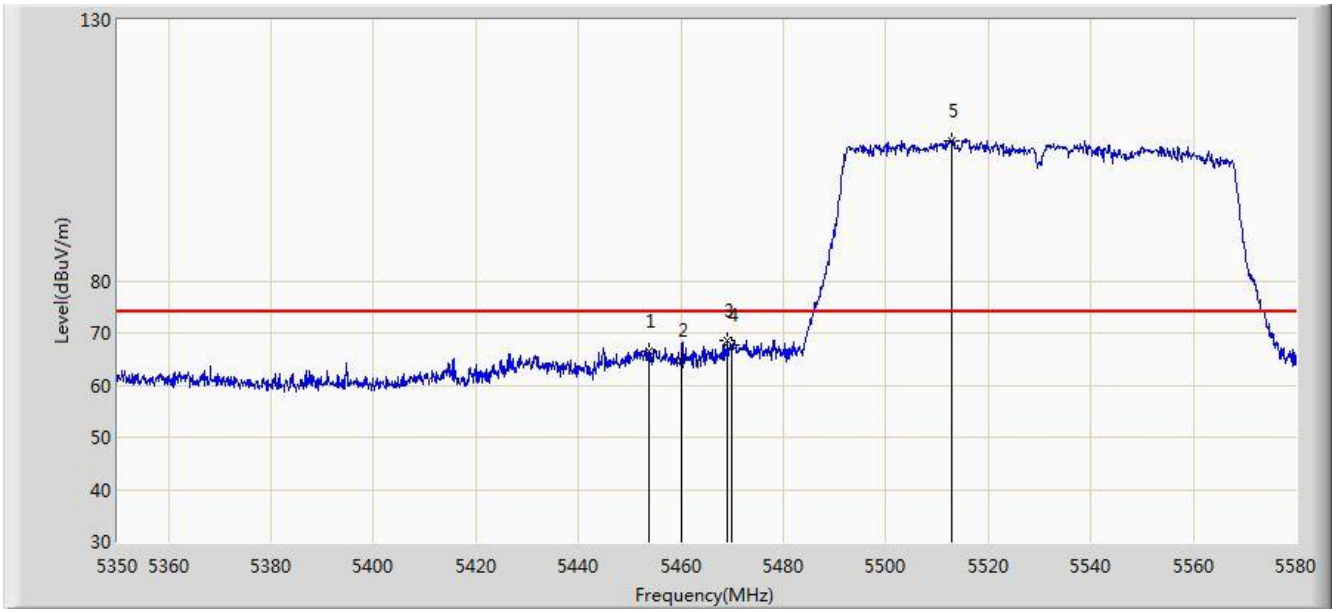



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 42.883 | 39.401 | -11.117 | 54.000 | 3.482 | AV |
| 2 | | * | 5512.955 | 74.680 | 71.168 | N/A | N/A | 3.513 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:05 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

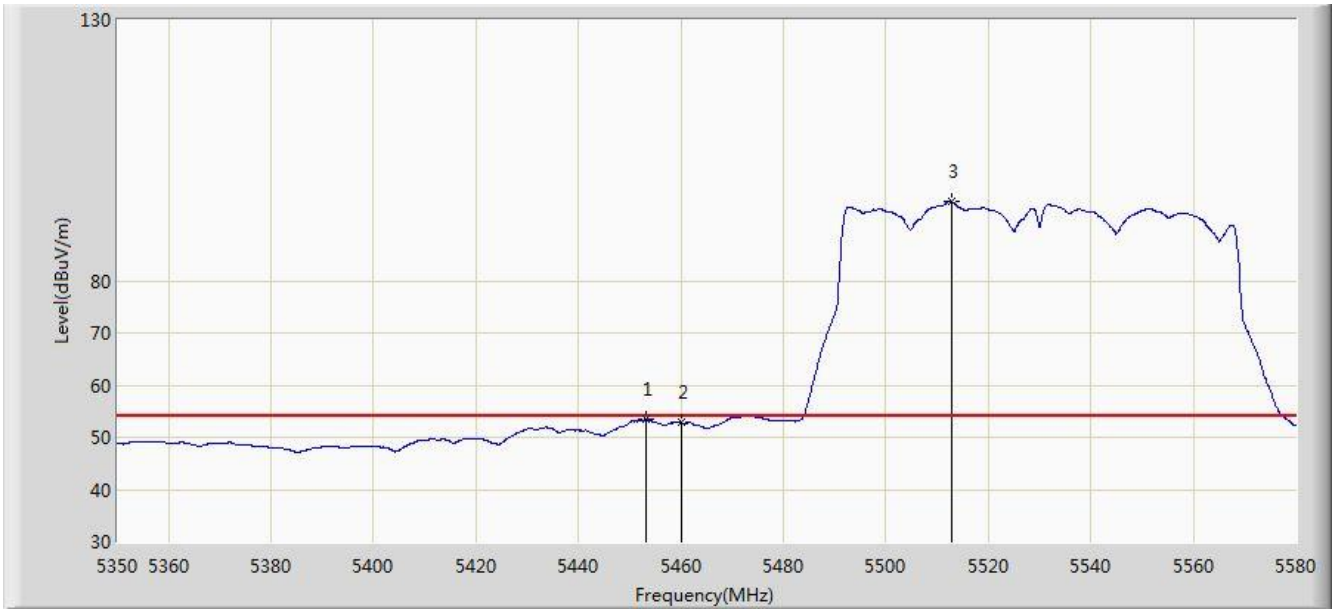



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5453.845 | 66.546 | 63.101 | -7.454 | 74.000 | 3.446 | PK |
| 2 | | | 5460.000 | 64.751 | 61.269 | -9.249 | 74.000 | 3.482 | PK |
| 3 | | | 5469.140 | 68.431 | 64.897 | -5.569 | 74.000 | 3.534 | PK |
| 4 | | | 5470.000 | 67.537 | 63.998 | -6.463 | 74.000 | 3.539 | PK |
| 5 | | * | 5512.725 | 106.869 | 103.356 | N/A | N/A | 3.513 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:03 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

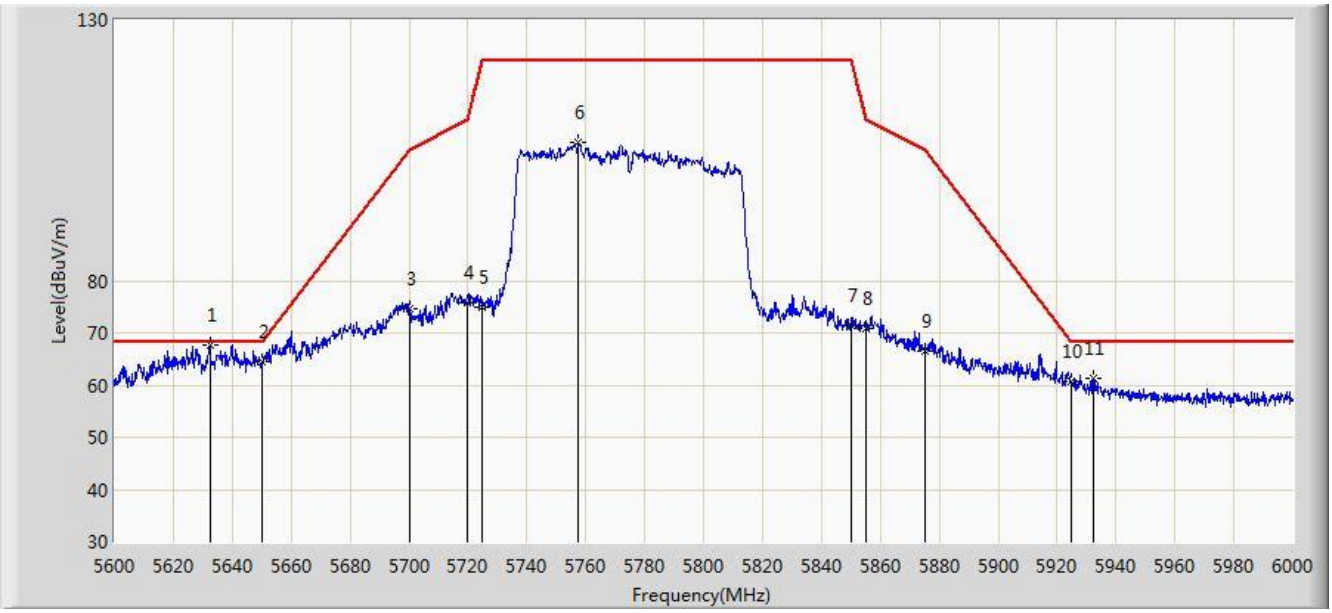



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5453.270 | 53.451 | 50.008 | -0.549 | 54.000 | 3.442 | AV |
| 2 | | | 5460.000 | 52.805 | 49.323 | -1.195 | 54.000 | 3.482 | AV |
| 3 | | * | 5512.955 | 95.092 | 91.580 | N/A | N/A | 3.513 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:29 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5775MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

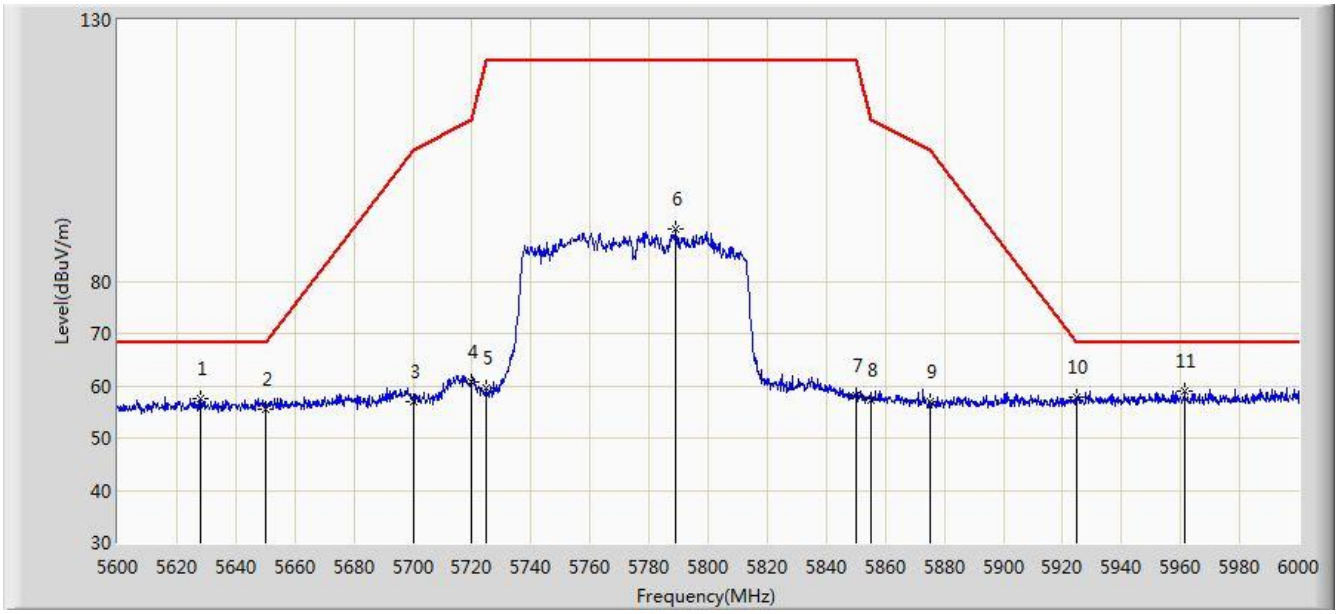



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5632.600 | 67.798 | 64.214 | -0.402 | 68.200 | 3.585 | PK |
| 2 | | | 5650.000 | 64.499 | 60.872 | -3.701 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 74.632 | 70.913 | -30.568 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 75.814 | 72.038 | -34.986 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 75.030 | 71.239 | -47.170 | 122.200 | 3.791 | PK |
| 6 | | | 5757.600 | 106.457 | 102.558 | N/A | N/A | 3.899 | PK |
| 7 | | | 5850.000 | 71.319 | 67.262 | -50.881 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 70.820 | 66.760 | -39.980 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 66.514 | 62.409 | -38.686 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 60.593 | 56.340 | -7.607 | 68.200 | 4.254 | PK |
| 11 | | | 5932.400 | 61.232 | 56.965 | -6.968 | 68.200 | 4.268 | PK |

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

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

| | |
|---|---|
| Profile: 80+80.Bandedge | Page No.: 57 |
| Engineer: Will Yan | |
| Site: AC1 | Time: 2017/11/03 - 22:30 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5775MHz Ant 0 + 1 / Ant 0 + 1 + 2 + 3 | |

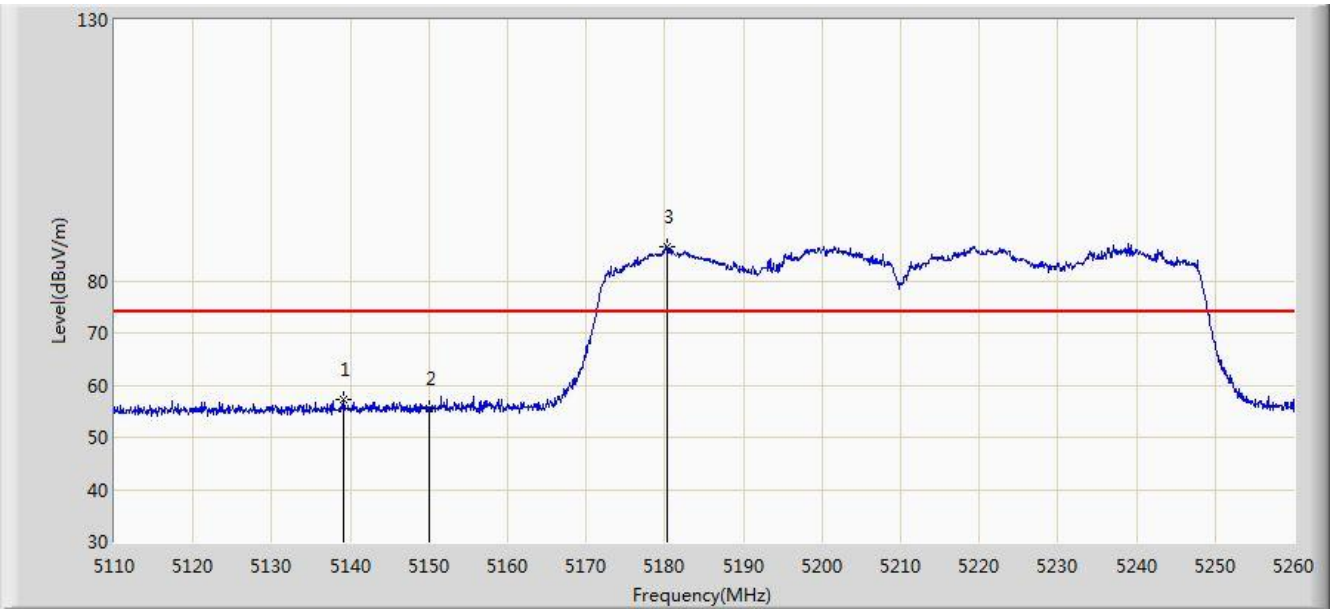



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5628.000 | 57.614 | 54.047 | -10.586 | 68.200 | 3.567 | PK |
| 2 | | | 5650.000 | 55.387 | 51.760 | -12.813 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 56.832 | 53.113 | -48.368 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 60.585 | 56.809 | -50.215 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 59.523 | 55.732 | -62.677 | 122.200 | 3.791 | PK |
| 6 | | | 5788.800 | 89.920 | 85.977 | N/A | N/A | 3.943 | PK |
| 7 | | | 5850.000 | 58.237 | 54.180 | -63.963 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 57.323 | 53.263 | -53.477 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 56.926 | 52.821 | -48.274 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 57.788 | 53.535 | -10.412 | 68.200 | 4.254 | PK |
| 11 | | * | 5961.400 | 58.947 | 54.645 | -9.253 | 68.200 | 4.302 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:26 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

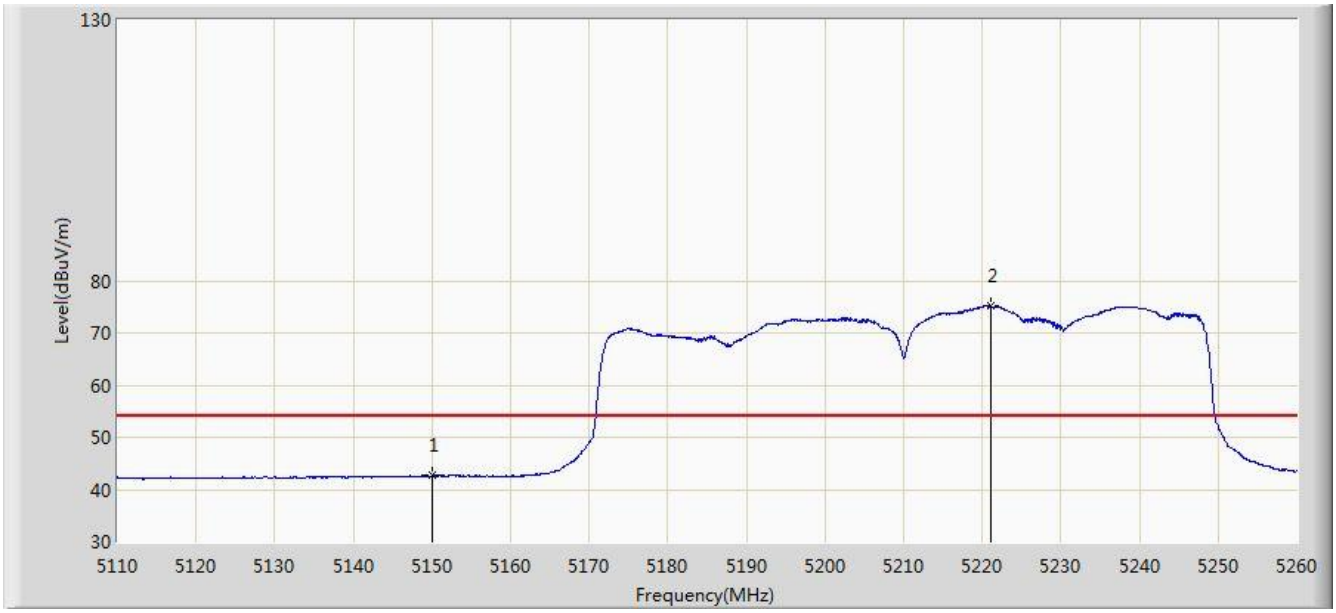



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5139.100 | 57.360 | 54.050 | -16.640 | 74.000 | 3.310 | PK |
| 2 | | | 5150.000 | 55.576 | 52.267 | -18.424 | 74.000 | 3.309 | PK |
| 3 | | * | 5180.350 | 86.400 | 83.127 | N/A | N/A | 3.273 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:28 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

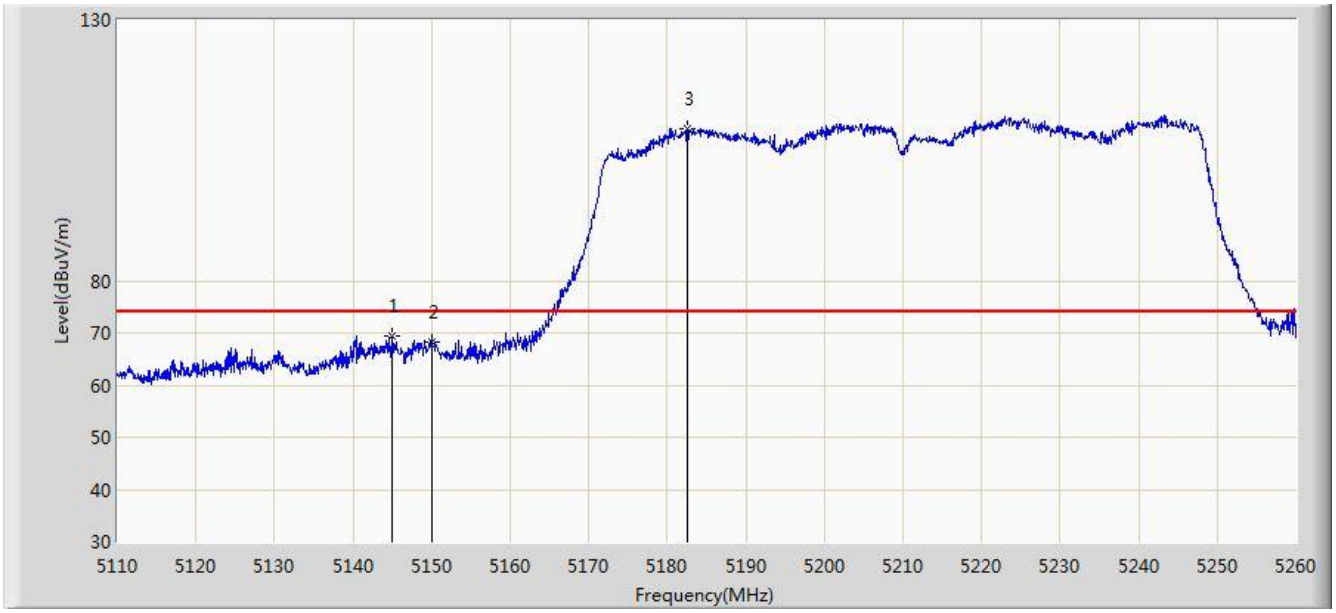



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5150.000 | 42.677 | 39.368 | -11.323 | 54.000 | 3.309 | AV |
| 2 | | * | 5221.000 | 75.099 | 71.889 | N/A | N/A | 3.210 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:21 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5144.875 | 69.377 | 66.068 | -4.623 | 74.000 | 3.309 | PK |
| 2 | | | 5150.000 | 68.285 | 64.976 | -5.715 | 74.000 | 3.309 | PK |
| 3 | | * | 5182.600 | 109.152 | 105.882 | N/A | N/A | 3.271 | PK |

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

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

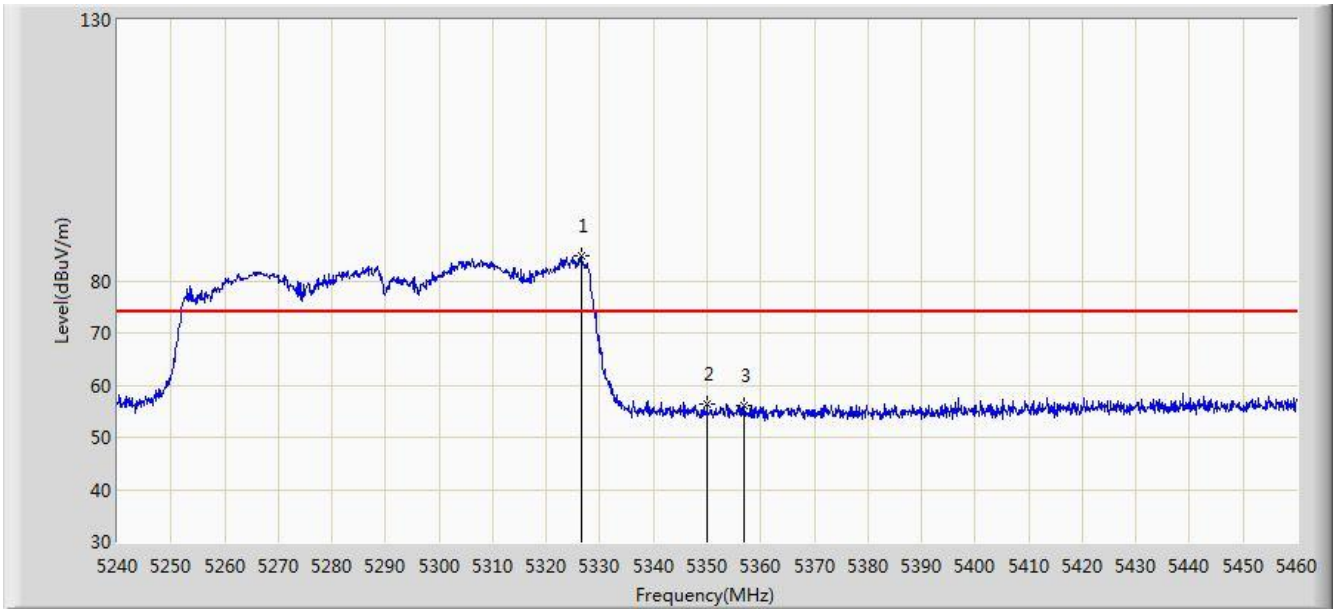
| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:22 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5210MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5140.825 | 53.555 | 50.245 | -0.445 | 54.000 | 3.309 | AV |
| 2 | | | 5150.000 | 53.438 | 50.129 | -0.562 | 54.000 | 3.309 | AV |
| 3 | | * | 5221.000 | 100.044 | 96.834 | N/A | N/A | 3.210 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:56 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

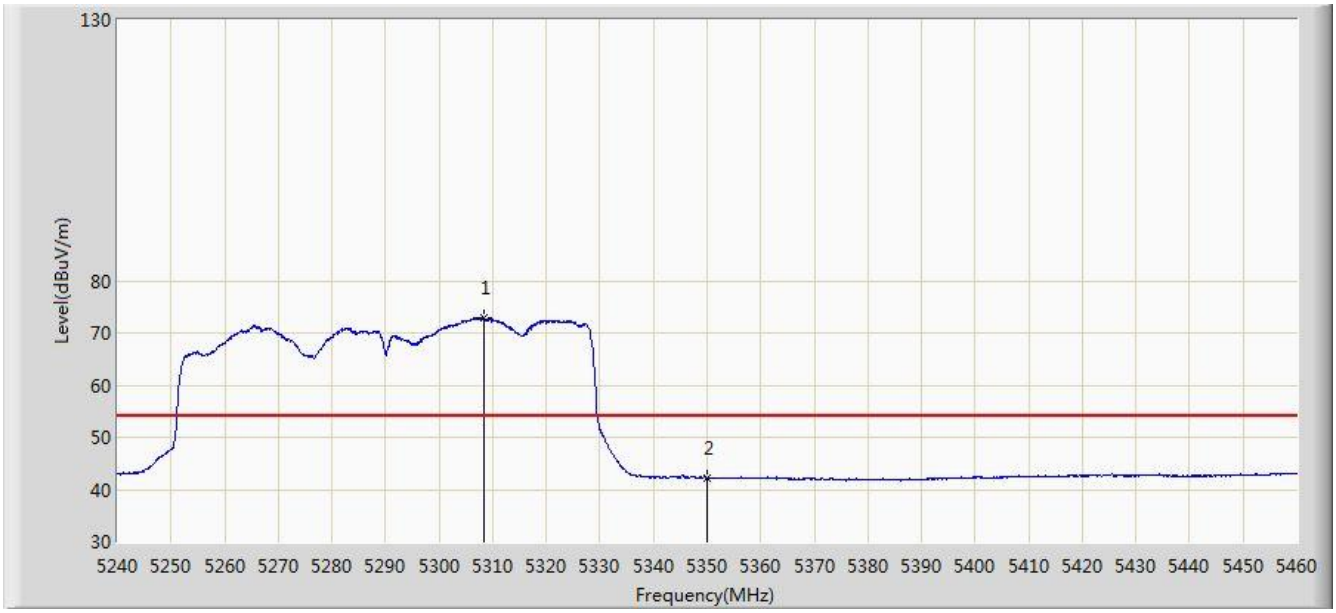



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5326.460 | 84.649 | 81.589 | N/A | N/A | 3.060 | PK |
| 2 | | | 5350.000 | 56.266 | 53.234 | -17.734 | 74.000 | 3.032 | PK |
| 3 | | | 5356.820 | 56.051 | 53.026 | -17.949 | 74.000 | 3.025 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:57 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

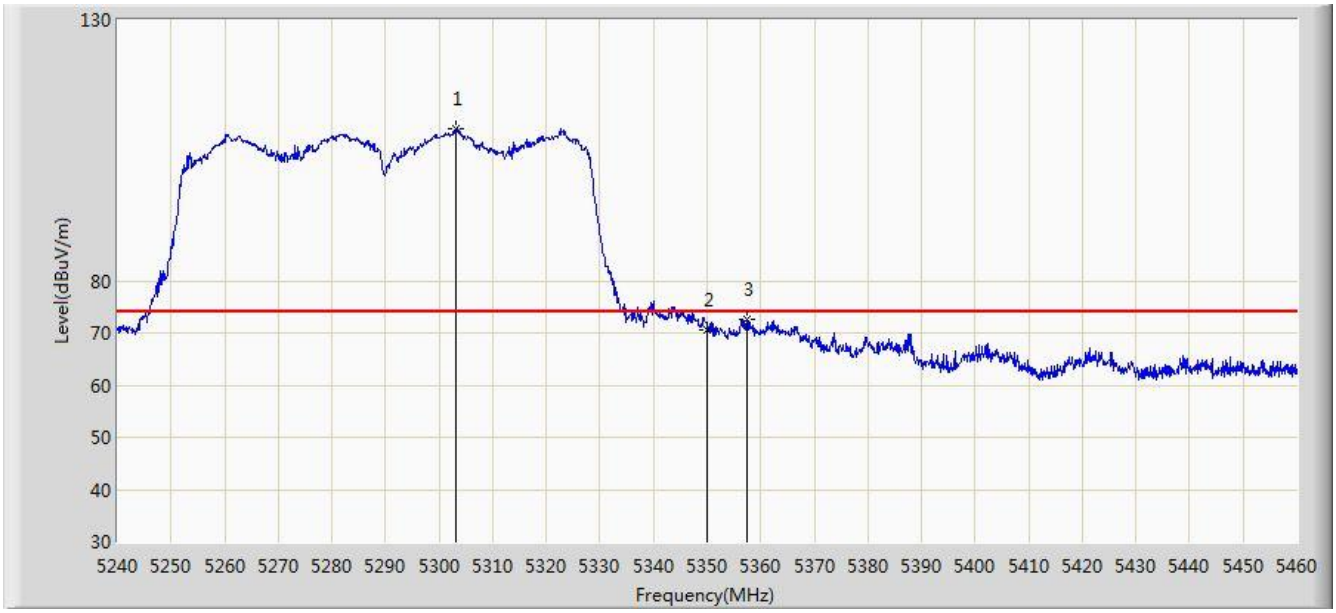



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5308.310 | 72.807 | 69.707 | N/A | N/A | 3.099 | AV |
| 2 | | | 5350.000 | 42.231 | 39.199 | -11.769 | 54.000 | 3.032 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/09 - 14:53 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

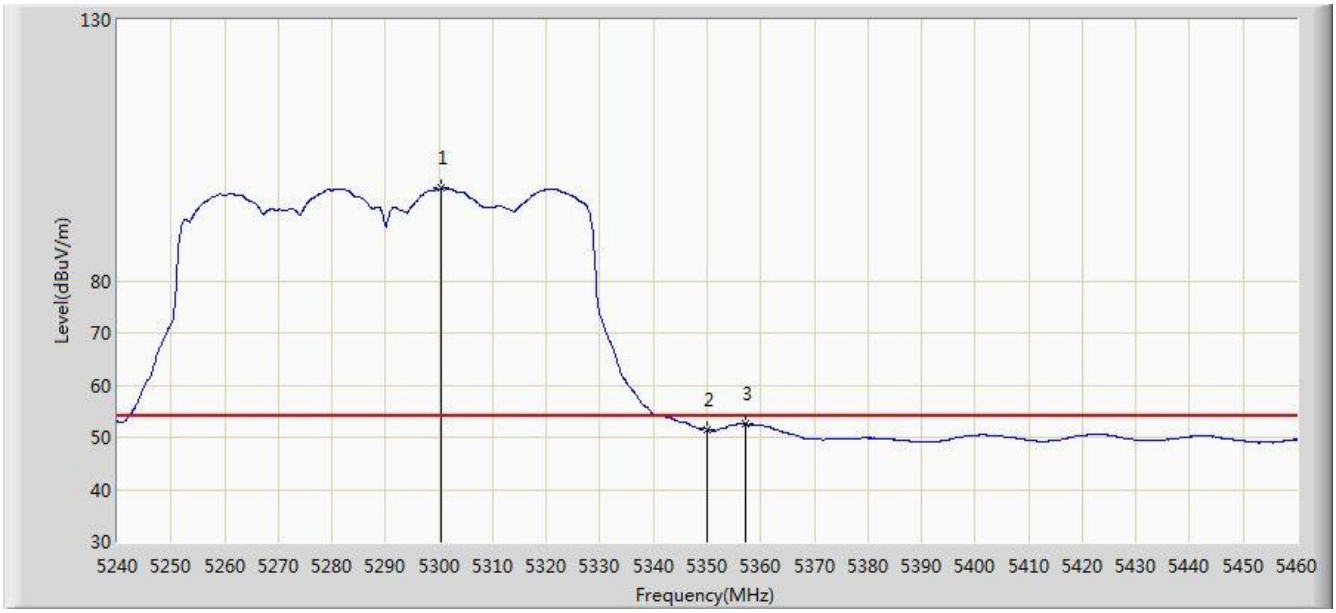



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5303.250 | 109.006 | 105.893 | N/A | N/A | 3.113 | PK |
| 2 | | | 5350.000 | 70.716 | 67.684 | -3.284 | 74.000 | 3.032 | PK |
| 3 | | | 5357.480 | 72.724 | 69.699 | -1.276 | 74.000 | 3.025 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 21:53 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

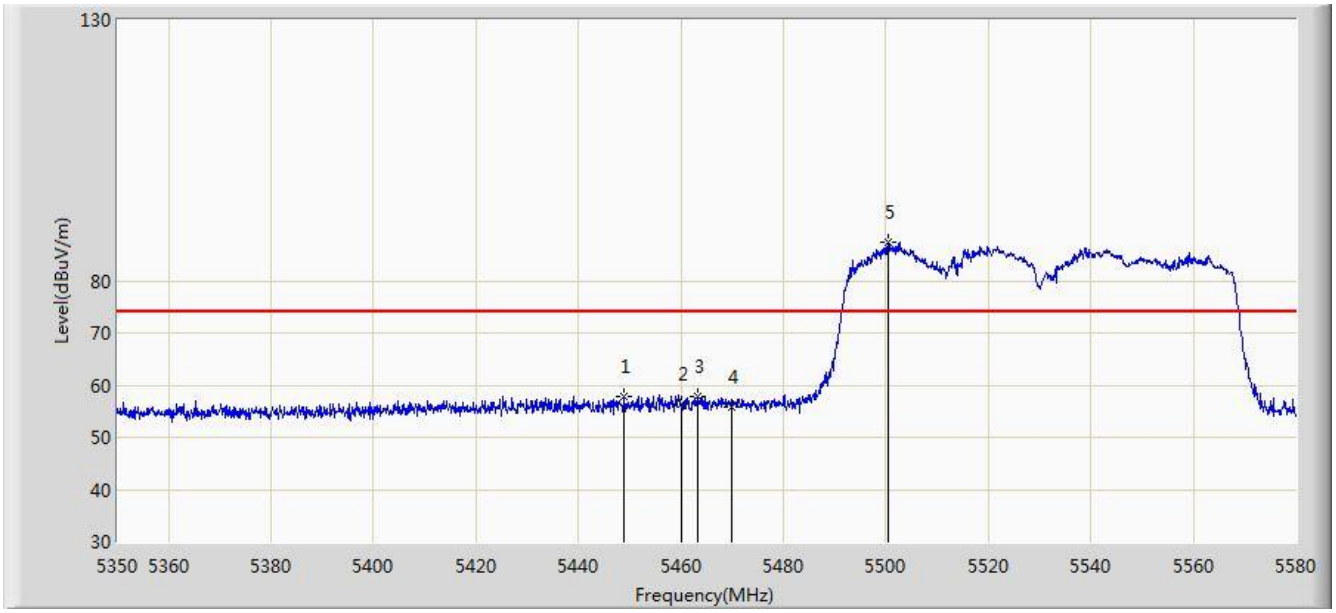



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5300.390 | 97.732 | 94.611 | N/A | N/A | 3.121 | AV |
| 2 | | | 5350.000 | 51.570 | 48.538 | -2.430 | 54.000 | 3.032 | AV |
| 3 | | | 5357.260 | 52.582 | 49.557 | -1.418 | 54.000 | 3.025 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:18 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

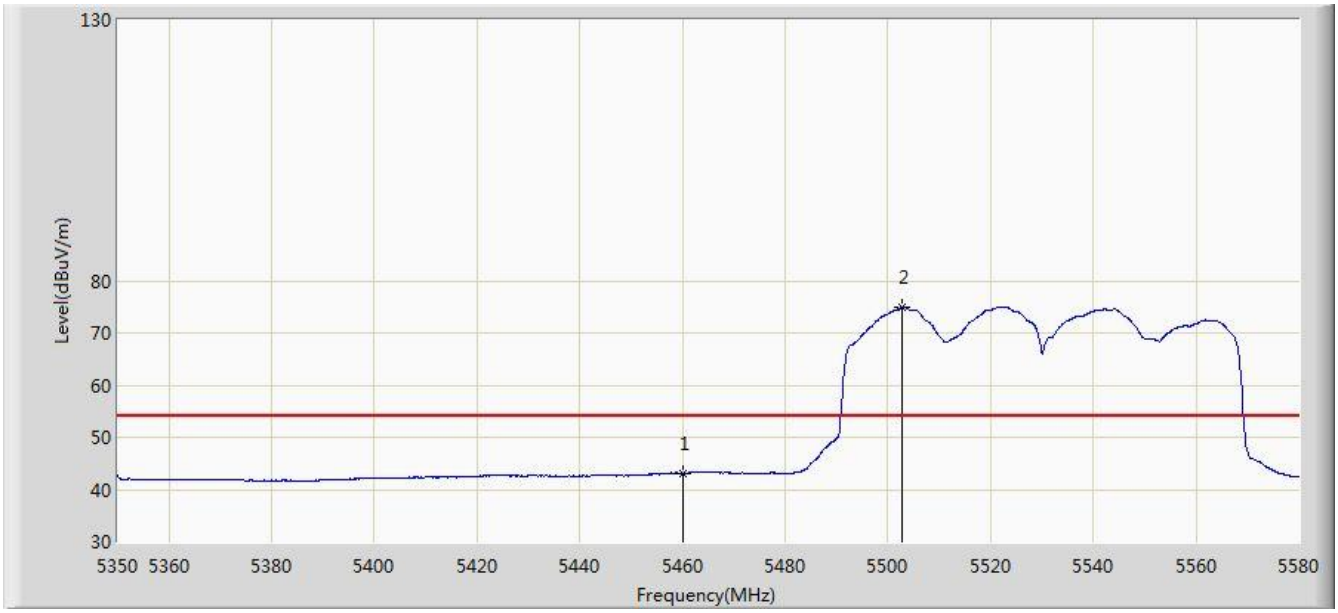



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5448.900 | 57.810 | 54.387 | -16.190 | 74.000 | 3.423 | PK |
| 2 | | | 5460.000 | 56.474 | 52.992 | -17.526 | 74.000 | 3.482 | PK |
| 3 | | | 5463.275 | 57.751 | 54.250 | -16.249 | 74.000 | 3.500 | PK |
| 4 | | | 5470.000 | 55.778 | 52.239 | -18.222 | 74.000 | 3.539 | PK |
| 5 | | * | 5500.420 | 87.459 | 83.933 | N/A | N/A | 3.526 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:19 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

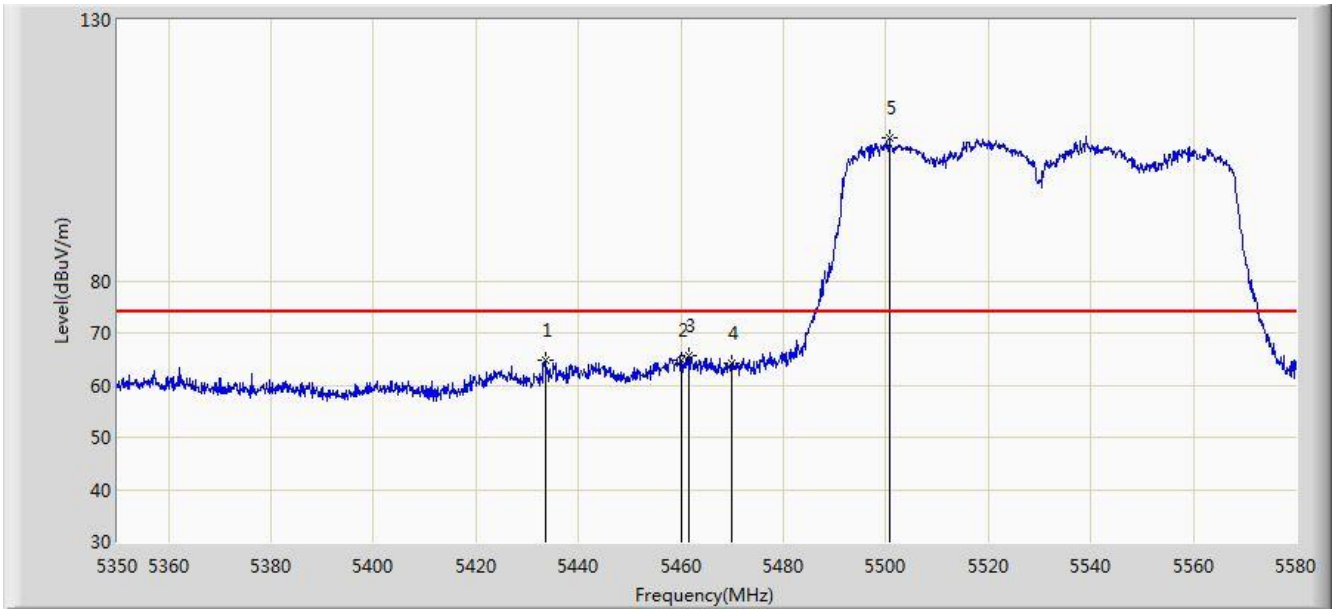



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 43.106 | 39.624 | -10.894 | 54.000 | 3.482 | AV |
| 2 | | * | 5502.720 | 74.891 | 71.368 | N/A | N/A | 3.523 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:17 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

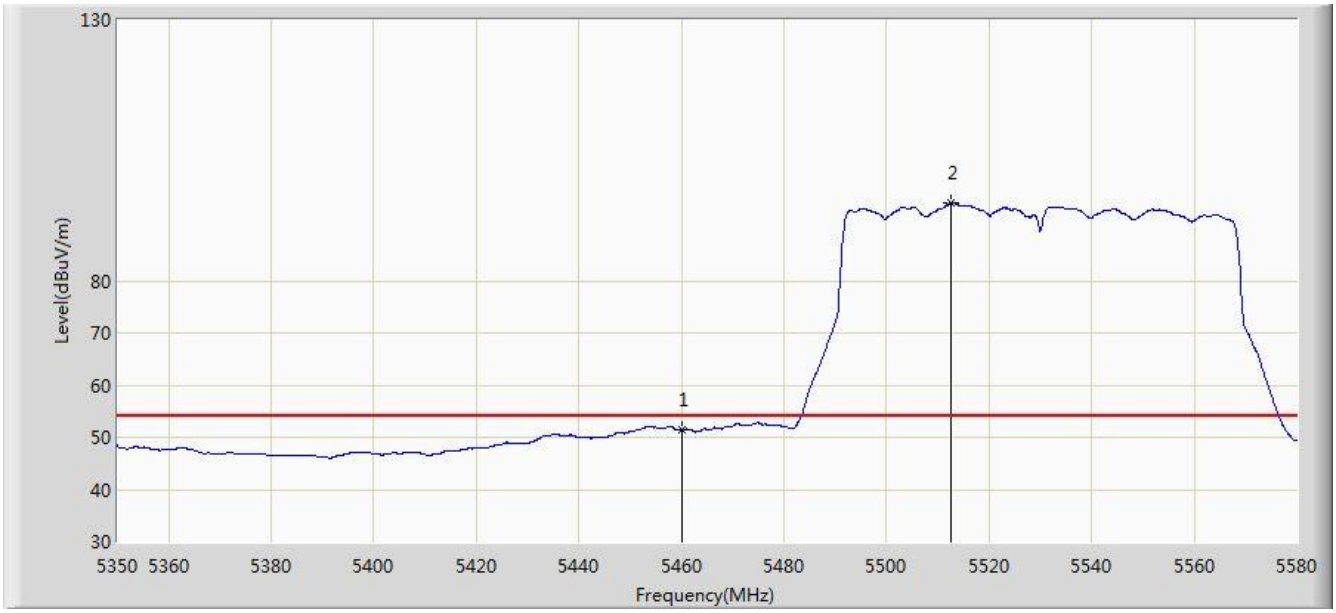



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5433.605 | 64.918 | 61.564 | -9.082 | 74.000 | 3.354 | PK |
| 2 | | | 5460.000 | 64.825 | 61.343 | -9.175 | 74.000 | 3.482 | PK |
| 3 | | | 5461.550 | 65.624 | 62.133 | -8.376 | 74.000 | 3.491 | PK |
| 4 | | | 5470.000 | 64.094 | 60.555 | -9.906 | 74.000 | 3.539 | PK |
| 5 | | * | 5500.650 | 107.406 | 103.880 | N/A | N/A | 3.525 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:15 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

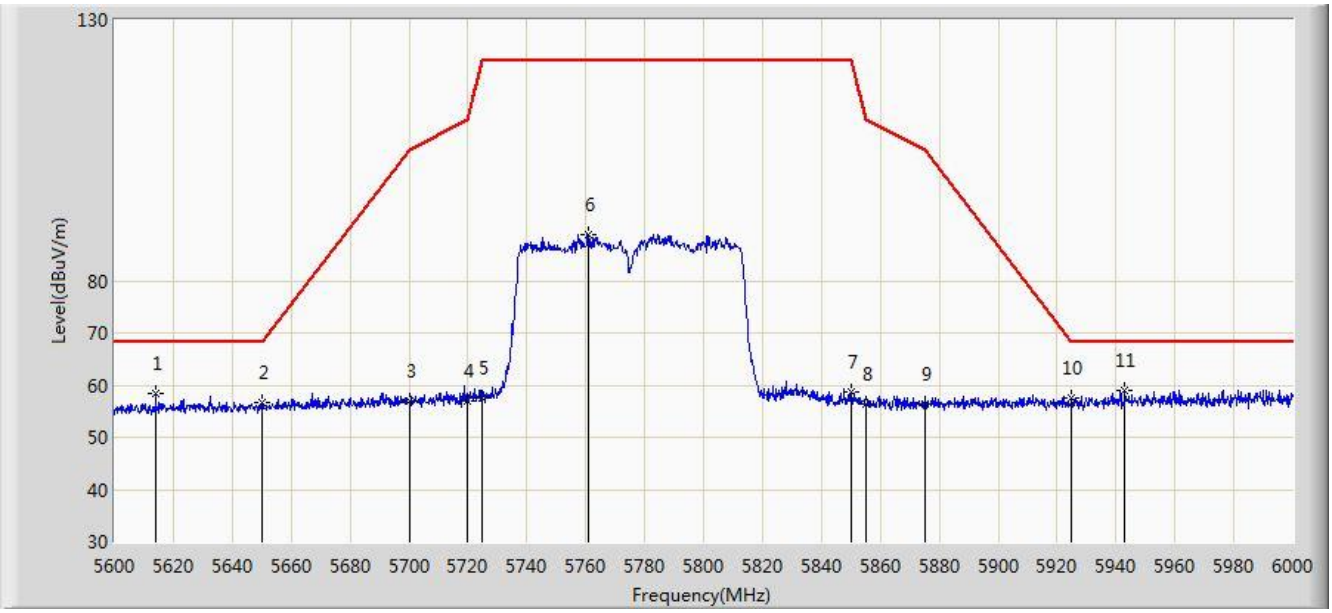



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5460.000 | 51.553 | 48.071 | -2.447 | 54.000 | 3.482 | AV |
| 2 | | * | 5512.610 | 95.040 | 91.527 | N/A | N/A | 3.512 | AV |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:39 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Horizontal |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5775MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |

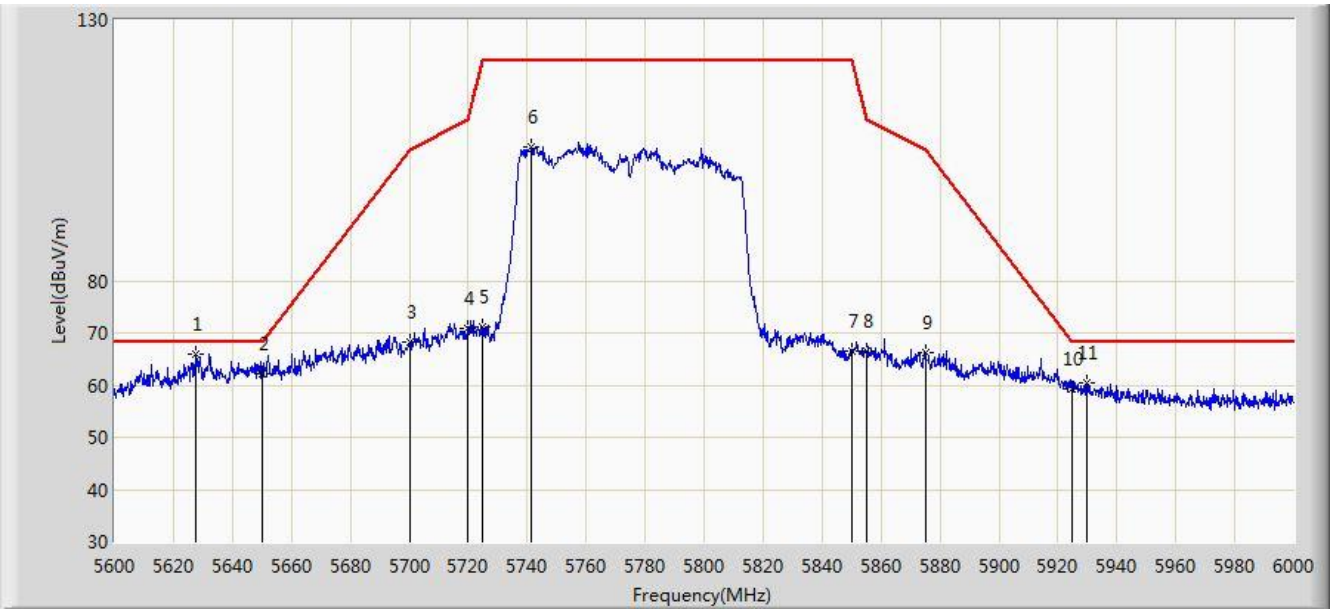



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5614.000 | 58.307 | 54.783 | -9.893 | 68.200 | 3.524 | PK |
| 2 | | | 5650.000 | 56.799 | 53.172 | -11.401 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 56.989 | 53.270 | -48.211 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 56.992 | 53.216 | -53.808 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 57.602 | 53.811 | -64.598 | 122.200 | 3.791 | PK |
| 6 | | | 5761.000 | 88.932 | 85.025 | N/A | N/A | 3.907 | PK |
| 7 | | | 5850.000 | 58.807 | 54.750 | -63.393 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 56.319 | 52.259 | -54.481 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 56.428 | 52.323 | -48.772 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 57.470 | 53.217 | -10.730 | 68.200 | 4.254 | PK |
| 11 | | * | 5943.000 | 59.007 | 54.736 | -9.193 | 68.200 | 4.271 | PK |

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

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

| | |
|---|---|
| Site: AC1 | Time: 2017/11/03 - 22:38 |
| Limit: FCC_Part15.407_RE(3m)_Bandedge | Engineer: Will Yan |
| Probe: BBHA9120D_1-18GHz | Polarity: Vertical |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: Powered by PCB Board |
| Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5775MHz Ant 2 + 3 / Ant 0 + 1 + 2 + 3 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5627.800 | 65.887 | 62.320 | -2.313 | 68.200 | 3.567 | PK |
| 2 | | | 5650.000 | 62.084 | 58.457 | -6.116 | 68.200 | 3.627 | PK |
| 3 | | | 5700.000 | 68.335 | 64.616 | -36.865 | 105.200 | 3.719 | PK |
| 4 | | | 5720.000 | 70.925 | 67.149 | -39.875 | 110.800 | 3.776 | PK |
| 5 | | | 5725.000 | 71.200 | 67.409 | -51.000 | 122.200 | 3.791 | PK |
| 6 | | | 5741.400 | 105.658 | 101.817 | N/A | N/A | 3.842 | PK |
| 7 | | | 5850.000 | 66.403 | 62.346 | -55.797 | 122.200 | 4.058 | PK |
| 8 | | | 5855.000 | 66.436 | 62.376 | -44.364 | 110.800 | 4.060 | PK |
| 9 | | | 5875.000 | 66.227 | 62.122 | -38.973 | 105.200 | 4.105 | PK |
| 10 | | | 5925.000 | 59.189 | 54.936 | -9.011 | 68.200 | 4.254 | PK |
| 11 | | | 5929.600 | 60.473 | 56.207 | -7.727 | 68.200 | 4.265 | PK |

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

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

## 7.10. AC Conducted Emissions Measurement

### 7.10.1. Test Limit

| FCC Part 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBμV) | AV (dBμV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

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

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

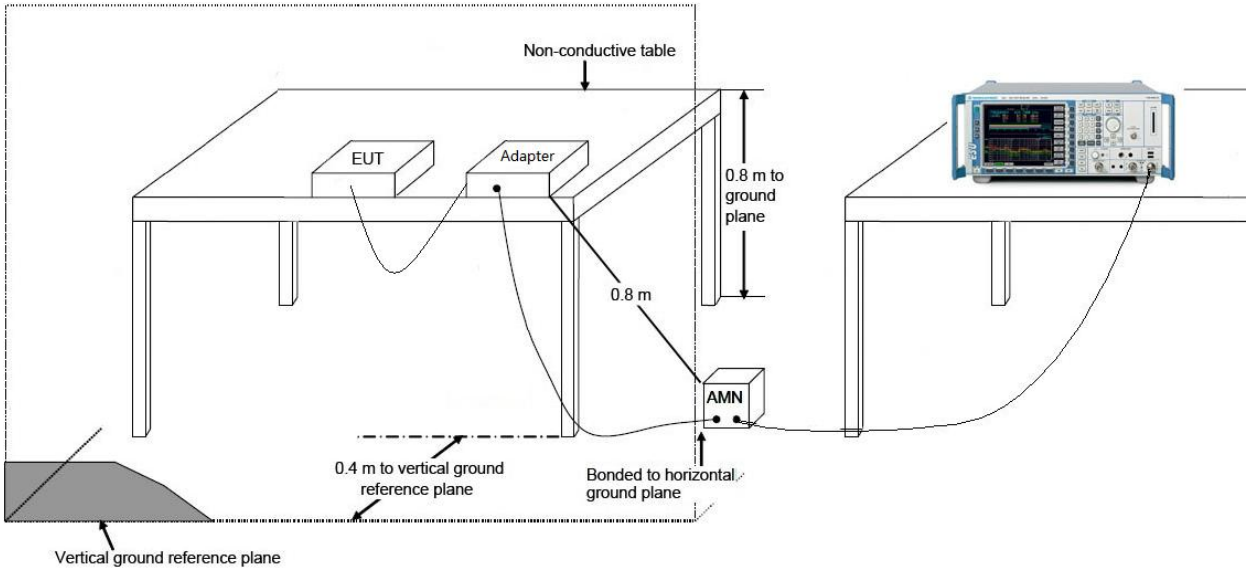
### 7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements.The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

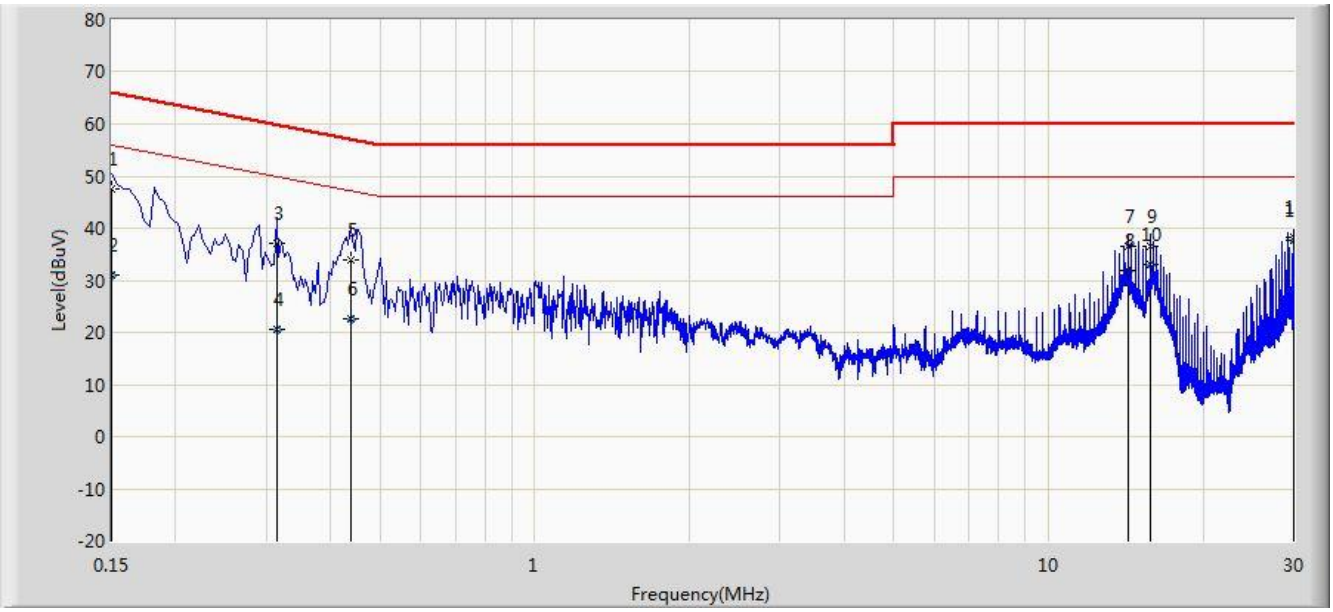
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### 7.10.3. Test Setup



### 7.10.4.Test Result

| | |
|---|---|
| Site: SR2 | Time: 2017/11/16 - 00:05 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Milo Li |
| Probe: ENV216_101683_Filter On | Polarity: Line |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: AC 120V/60Hz |
| Test Mode: Mode 1 | |

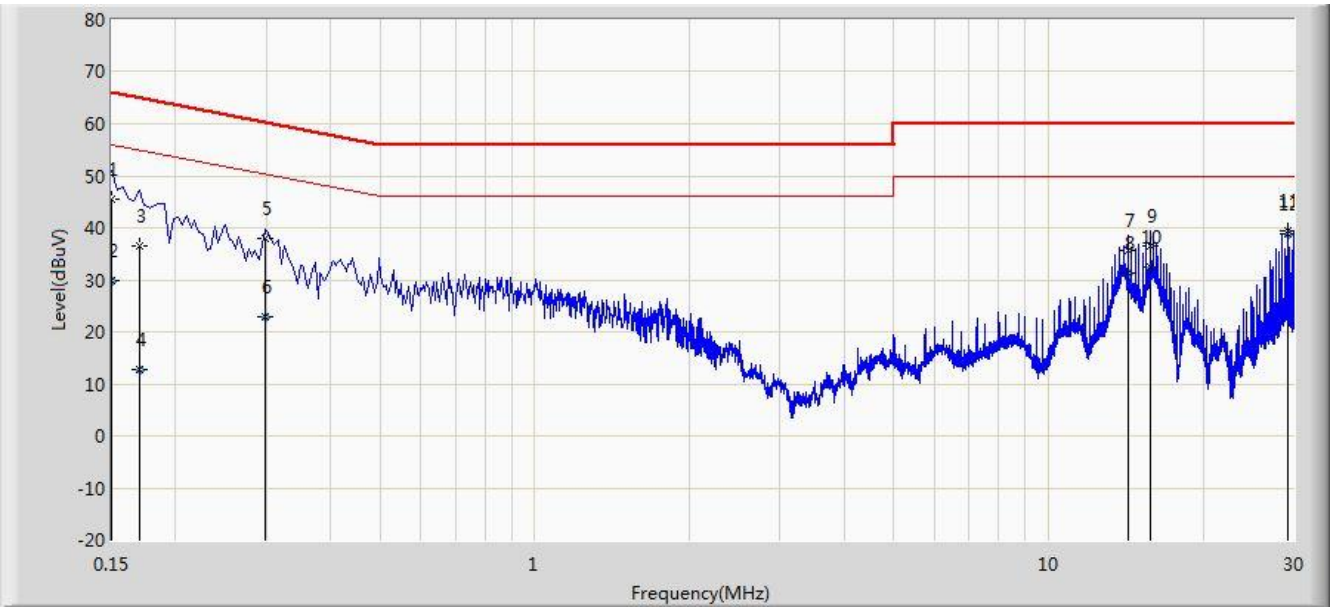



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.150 | 47.579 | 36.410 | -18.421 | 66.000 | 11.168 | QP |
| 2 | | | 0.150 | 30.897 | 19.728 | -25.103 | 56.000 | 11.168 | AV |
| 3 | | | 0.314 | 36.976 | 26.960 | -22.888 | 59.864 | 10.015 | QP |
| 4 | | | 0.314 | 20.717 | 10.701 | -29.147 | 49.864 | 10.015 | AV |
| 5 | | | 0.438 | 33.927 | 23.811 | -23.172 | 57.100 | 10.117 | QP |
| 6 | | | 0.438 | 22.682 | 12.566 | -24.417 | 47.100 | 10.117 | AV |
| 7 | | | 14.250 | 36.379 | 26.308 | -23.621 | 60.000 | 10.072 | QP |
| 8 | | | 14.250 | 31.950 | 21.878 | -18.050 | 50.000 | 10.072 | AV |
| 9 | | | 15.750 | 36.545 | 26.475 | -23.455 | 60.000 | 10.070 | QP |
| 10 | | * | 15.750 | 32.938 | 22.869 | -17.062 | 50.000 | 10.070 | AV |
| 11 | | | 30.002 | 38.191 | 27.921 | NaN | NaN | 10.270 | QP |
| 12 | | | 30.002 | 37.737 | 27.467 | NaN | NaN | 10.270 | AV |

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

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

| | |
|---|---|
| Site: SR2 | Time: 2017/11/16 - 00:20 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Milo Li |
| Probe: ENV216_101683_Filter On | Polarity: Neutral |
| EUT: 4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module | Power: AC 120V/60Hz |
| Test Mode: Mode 1 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.150 | 45.509 | 34.367 | -20.491 | 66.000 | 11.142 | QP |
| 2 | | | 0.150 | 29.724 | 18.582 | -26.276 | 56.000 | 11.142 | AV |
| 3 | | | 0.170 | 36.666 | 26.602 | -28.295 | 64.960 | 10.064 | QP |
| 4 | | | 0.170 | 12.794 | 2.730 | -42.167 | 54.960 | 10.064 | AV |
| 5 | | | 0.298 | 37.866 | 27.830 | -22.432 | 60.298 | 10.036 | QP |
| 6 | | | 0.298 | 22.781 | 12.745 | -27.517 | 50.298 | 10.036 | AV |
| 7 | | | 14.250 | 35.558 | 25.440 | -24.442 | 60.000 | 10.118 | QP |
| 8 | | | 14.250 | 31.349 | 21.231 | -18.651 | 50.000 | 10.118 | AV |
| 9 | | | 15.750 | 36.502 | 26.386 | -23.498 | 60.000 | 10.117 | QP |
| 10 | | | 15.750 | 32.518 | 22.401 | -17.482 | 50.000 | 10.117 | AV |
| 11 | | | 29.254 | 39.353 | 28.921 | -20.647 | 60.000 | 10.432 | QP |
| 12 | | * | 29.254 | 38.974 | 28.541 | -11.026 | 50.000 | 10.432 | AV |

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

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

# 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **4x4 Wave-2 802.11ac/a/n Mini PCIe WiFi Module** is in compliance with Part 15E of the FCC Rules.

The End