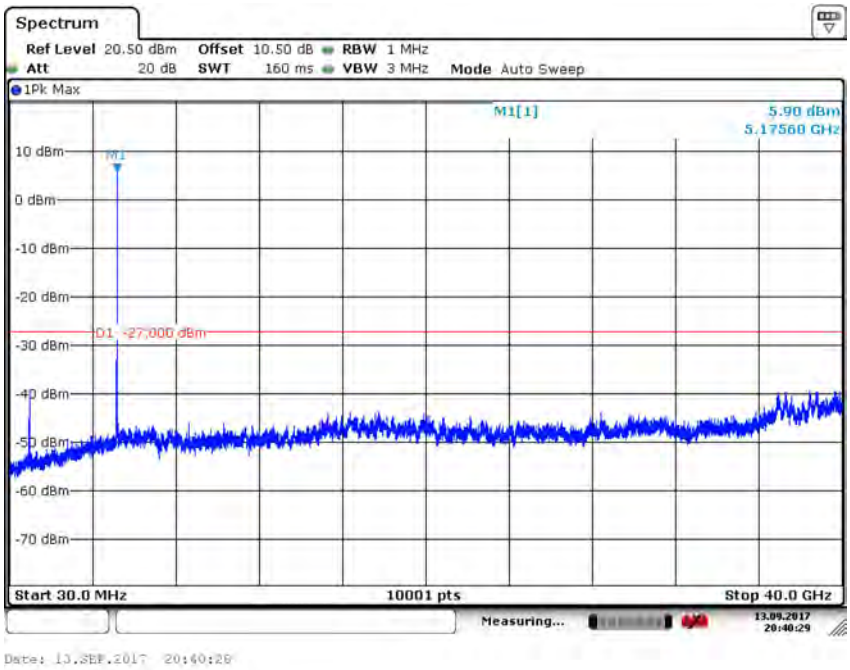
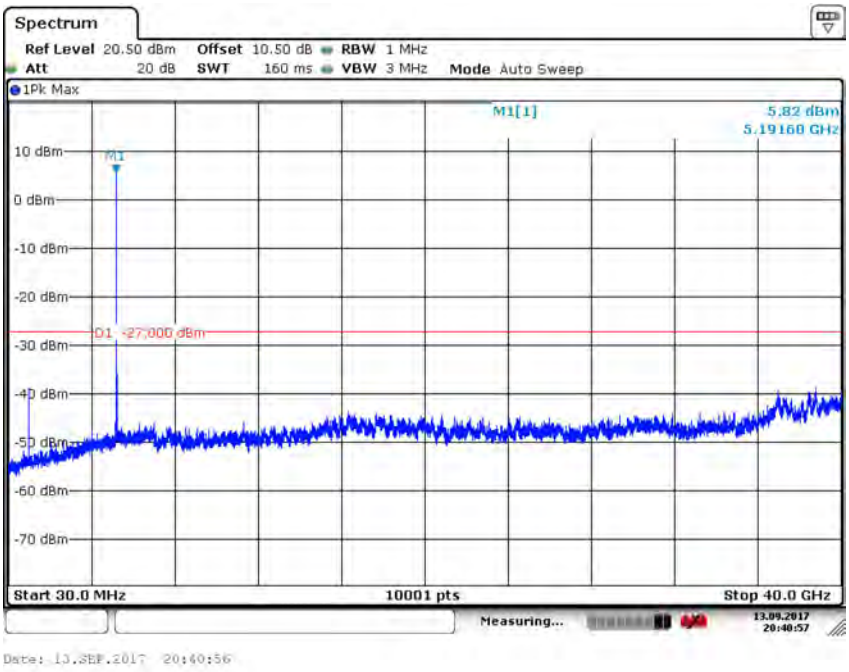
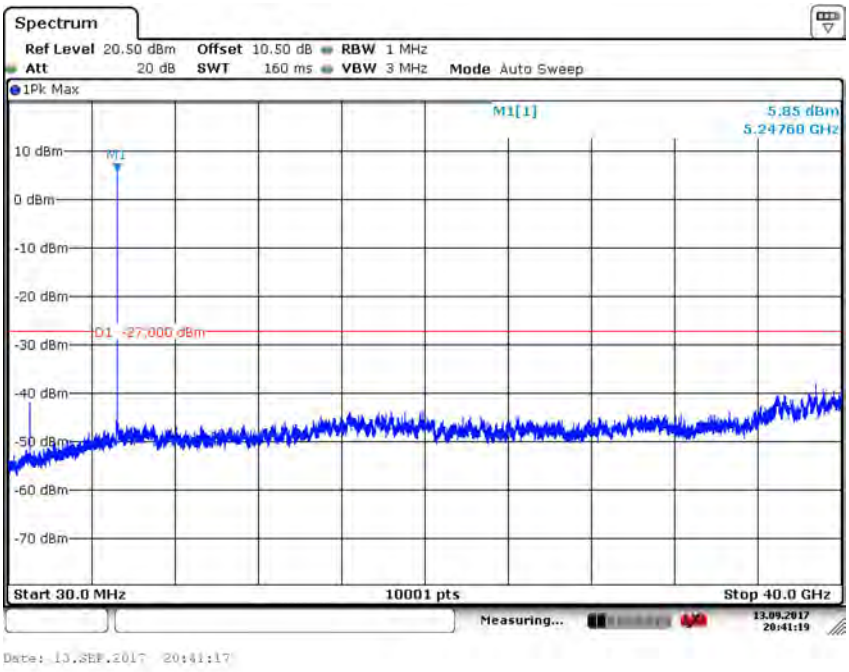
Test Mode: 802.11ac (HT20)




Carrier frequency (MHz): 5180
Test Mode: 802.11ac (HT20)

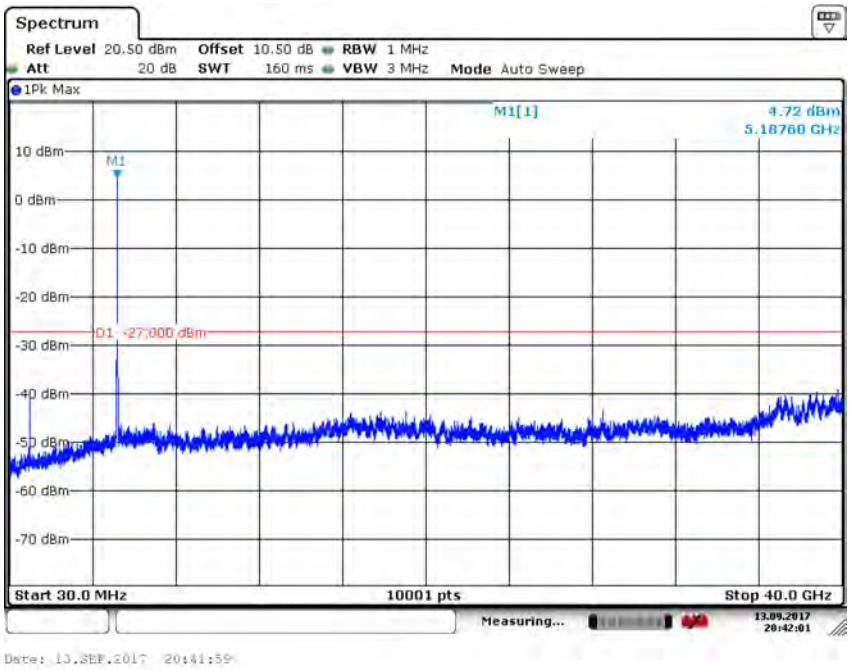



Carrier frequency (MHz): 5200
Test Mode: 802.11ac (HT20)

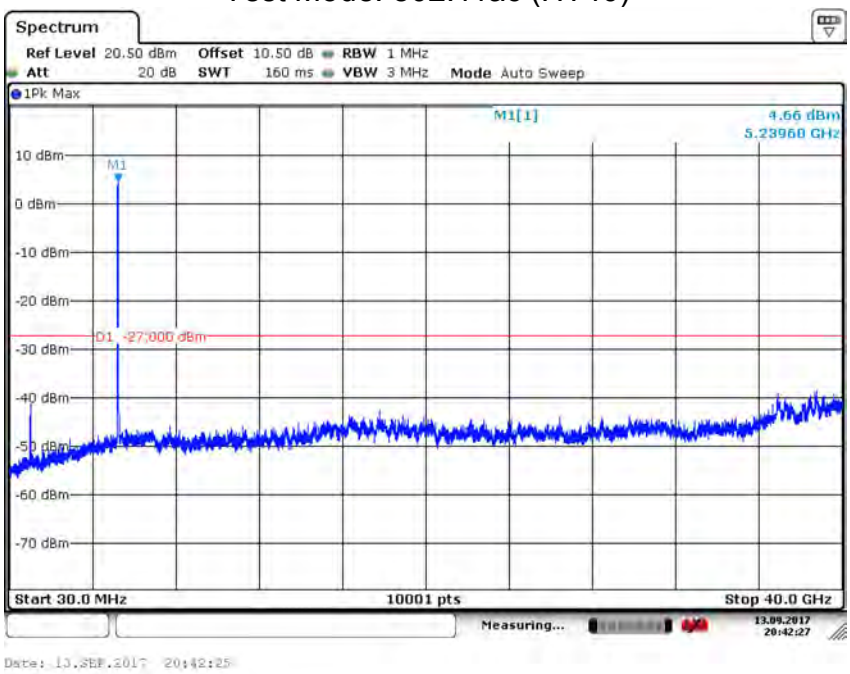



Carrier frequency (MHz): 5240
Test Mode: 802.11ac (HT20)

Test Mode: 802.11ac (HT40)



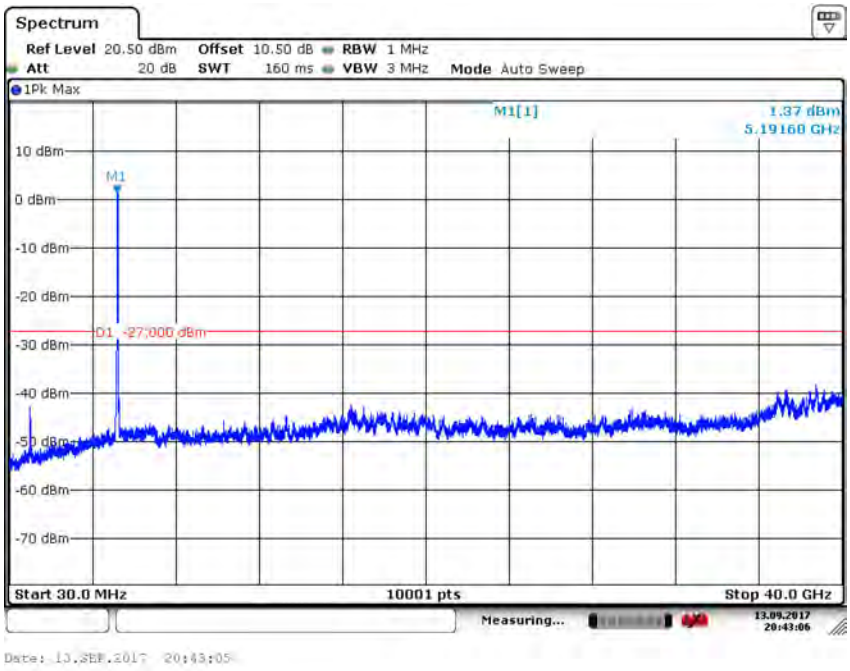

Carrier frequency (MHz): 5190
Test Mode: 802.11ac (HT40)




Carrier frequency (MHz): 5230
Test Mode: 802.11ac (HT40)

Test Mode: 802.11ac (HT80)

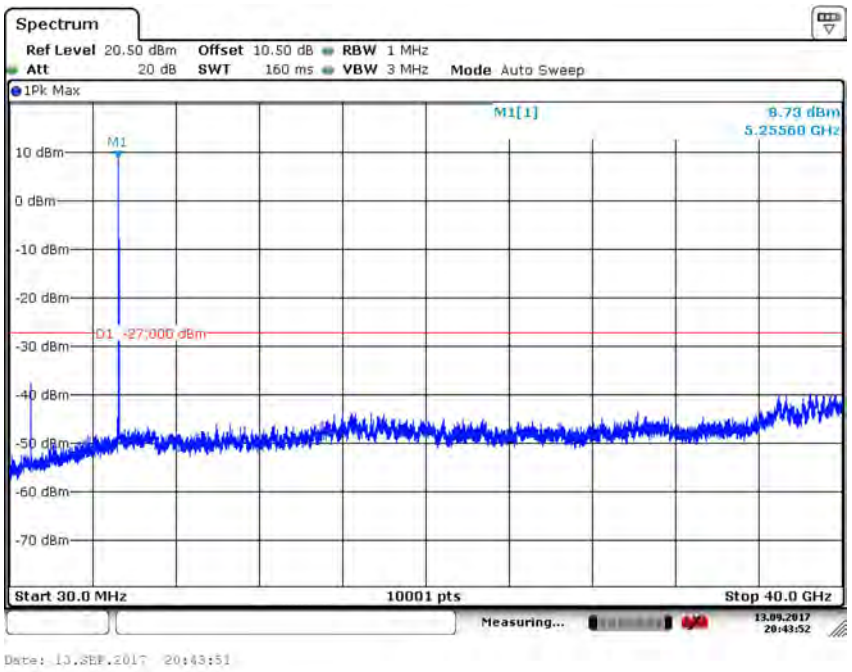
| Carrier frequency (MHz) | Power Density (dBm) |
|---|---|
| 5210 | 1.37 |



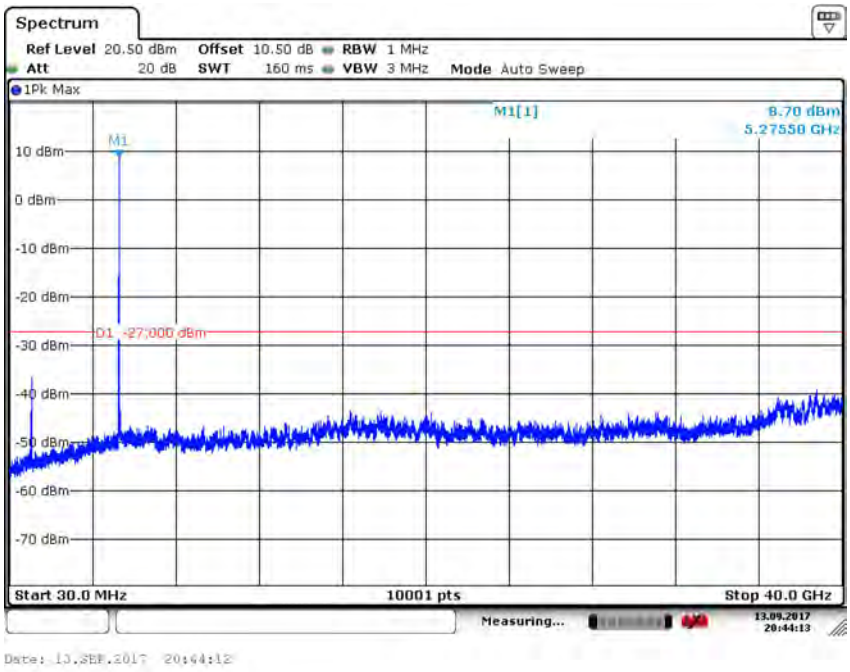

Carrier frequency (MHz): 5210
Test Mode: 802.11ac (HT80)

5250MHz~5350MHz

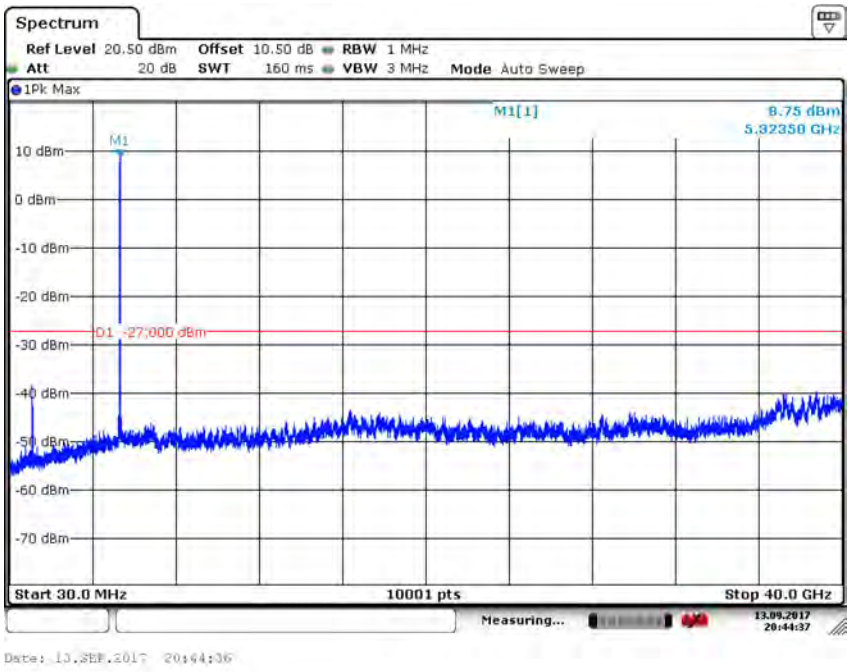
Test Mode: 802.11a




Carrier frequency (MHz): 5260
Test Mode: 802.11a

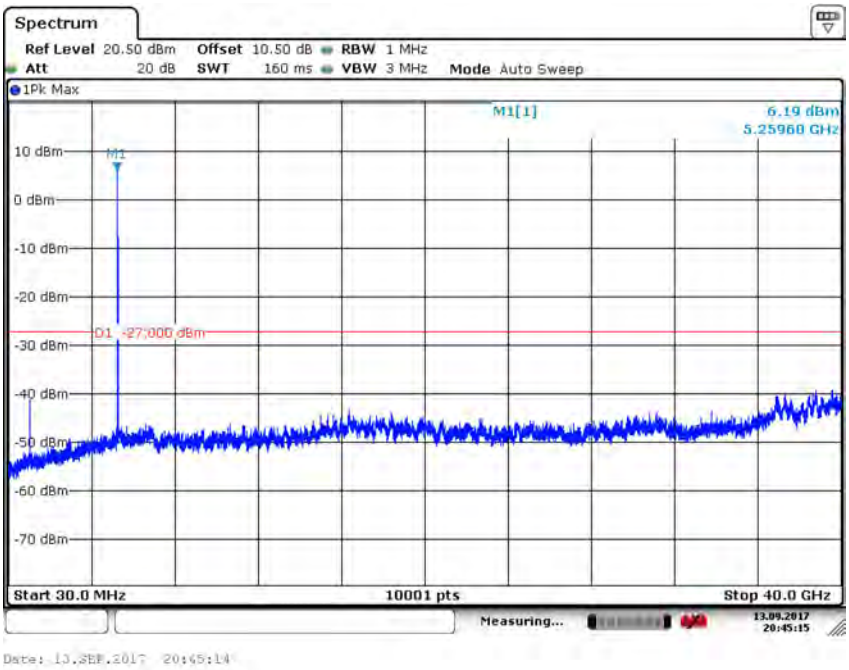



Carrier frequency (MHz): 5280
Test Mode: 802.11a

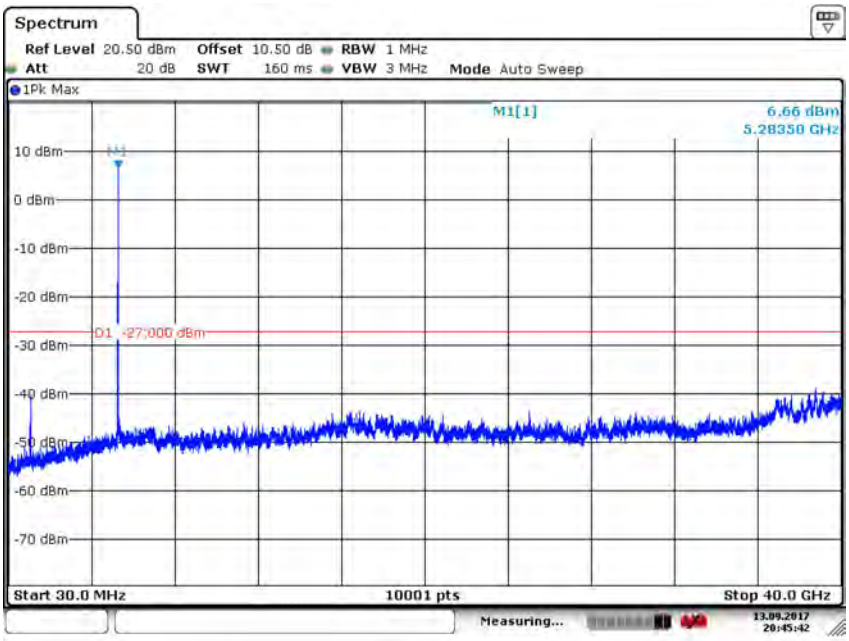



Carrier frequency (MHz): 5320
Test Mode: 802.11a

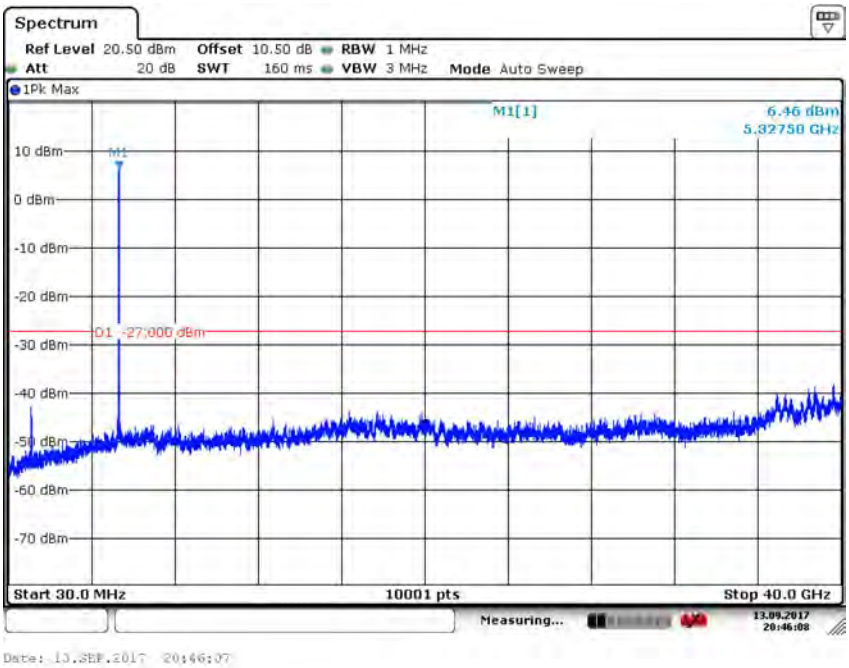
Test Mode: 802.11n (HT20)




Carrier frequency (MHz): 5260
Test Mode: 802.11n (HT20)

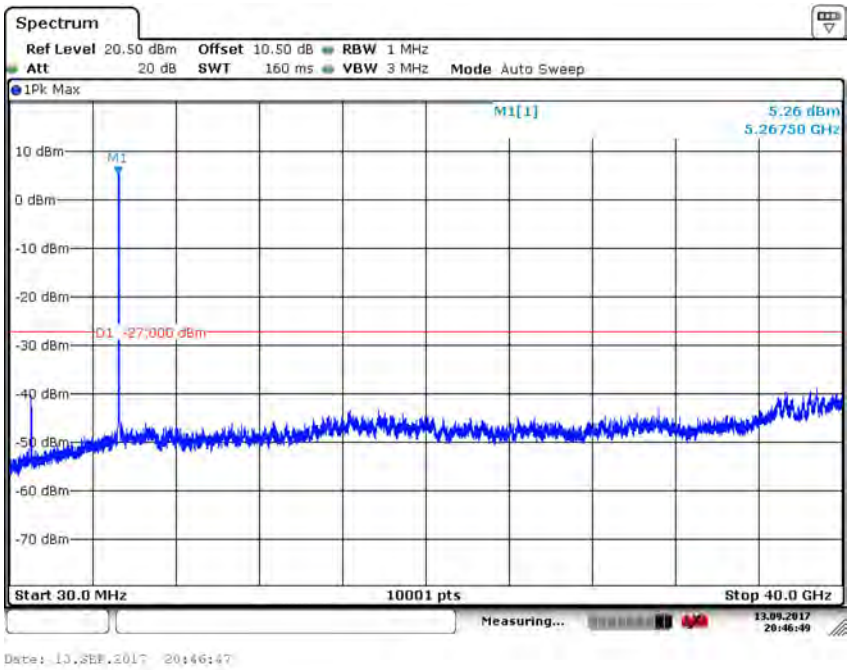



Carrier frequency (MHz): 5280
Test Mode: 802.11n (HT20)

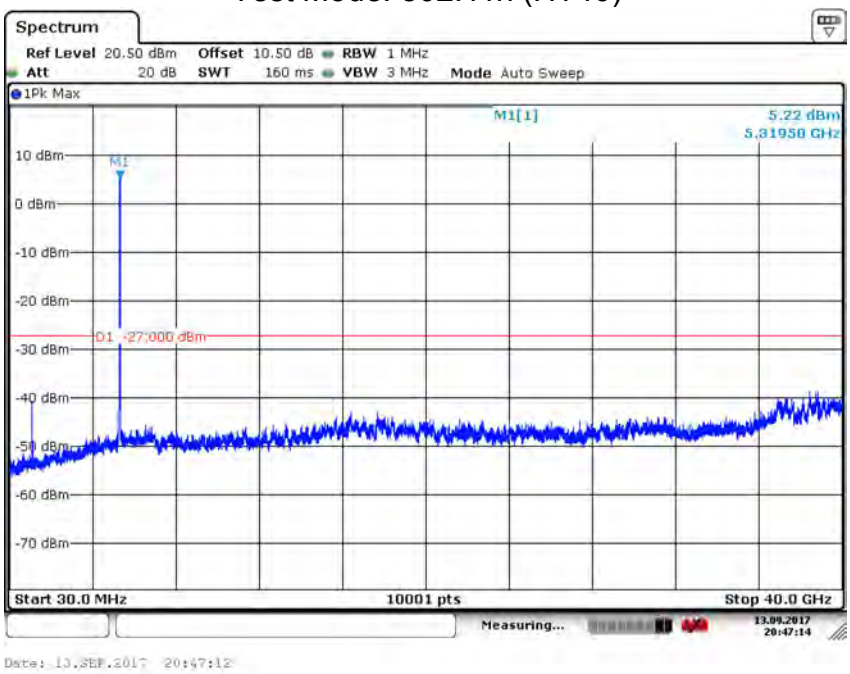



Carrier frequency (MHz): 5320
Test Mode: 802.11n (HT20)

Test Mode: 802.11n (HT40)

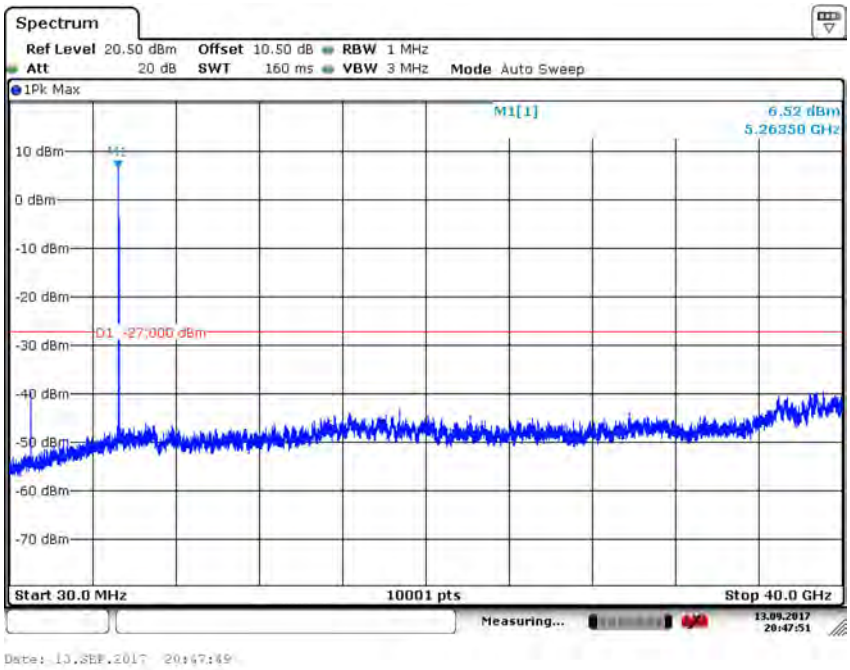



Carrier frequency (MHz): 5270
Test Mode: 802.11n (HT40)

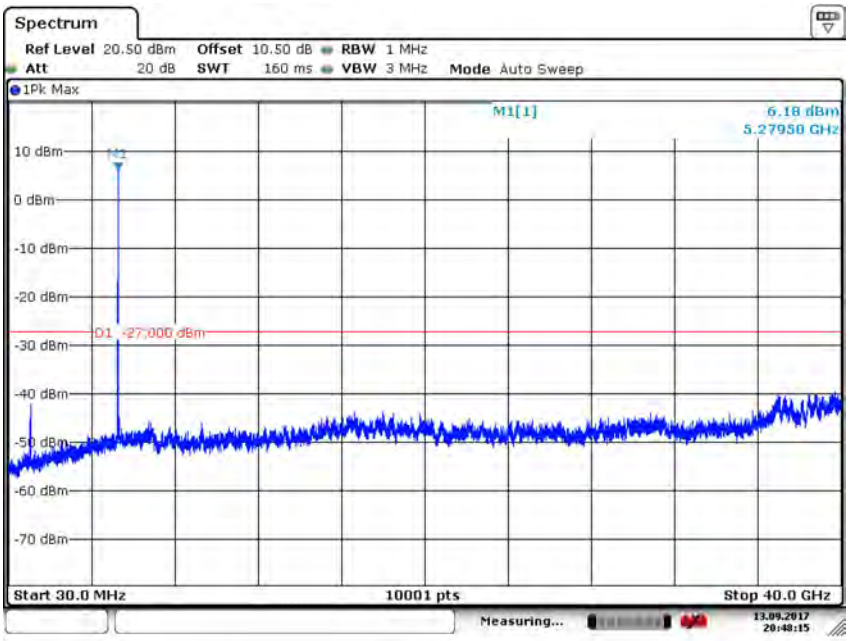



Carrier frequency (MHz): 5310
Test Mode: 802.11n (HT40)

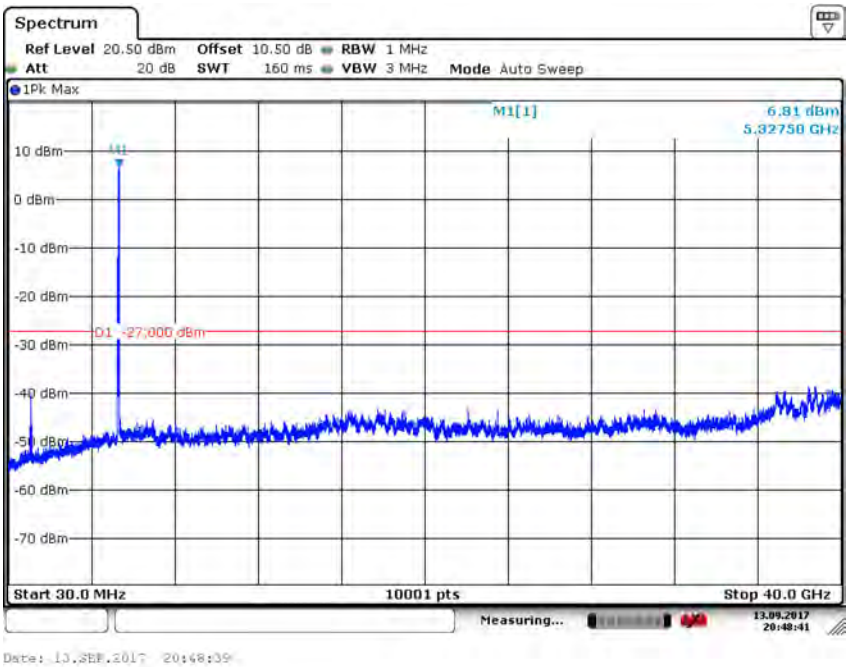
Test Mode: 802.11ac (HT20)




Carrier frequency (MHz): 5260
Test Mode: 802.11ac (HT20)

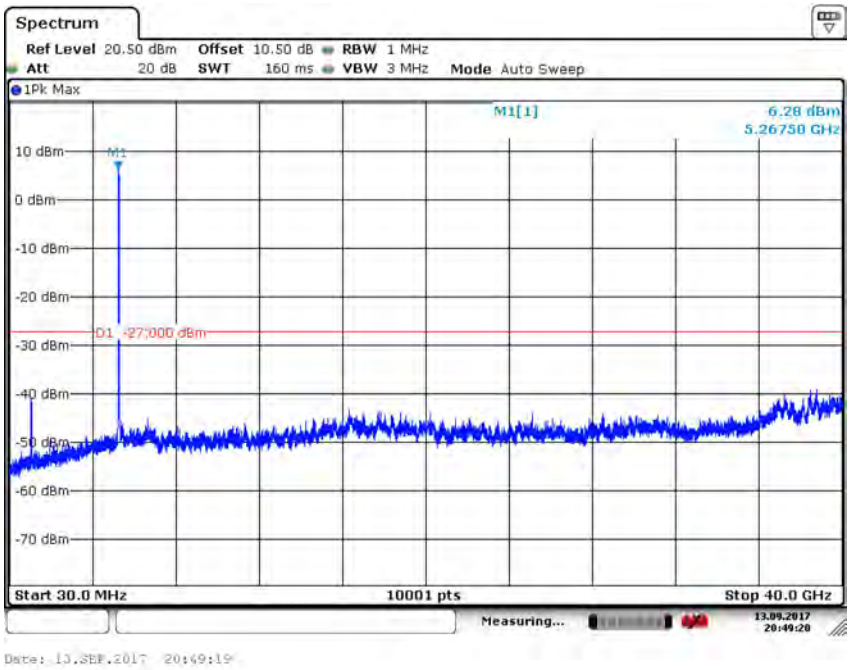



Carrier frequency (MHz): 5280
Test Mode: 802.11ac (HT20)

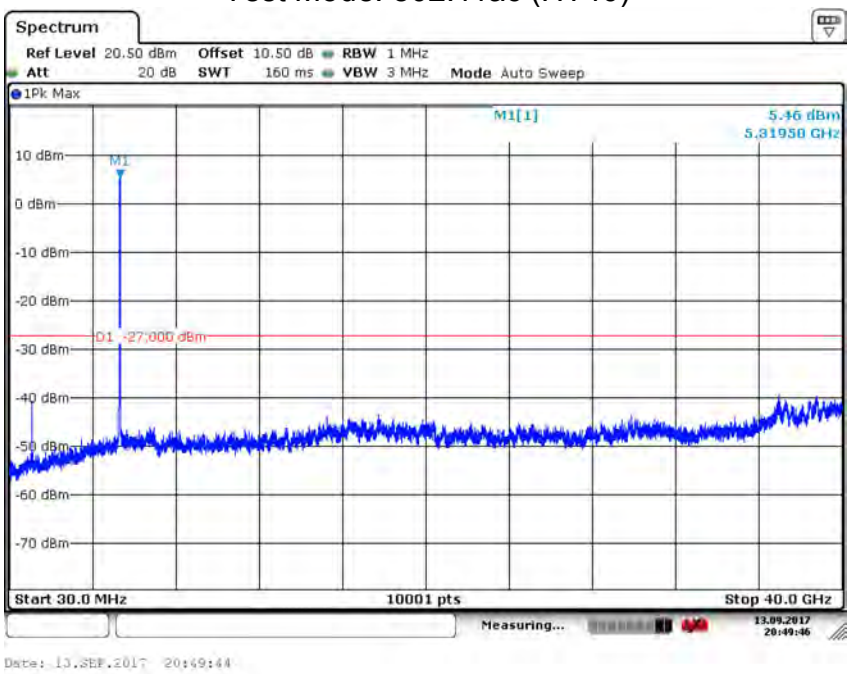



Carrier frequency (MHz): 5320
Test Mode: 802.11ac (HT20)

Test Mode: 802.11ac (HT40)

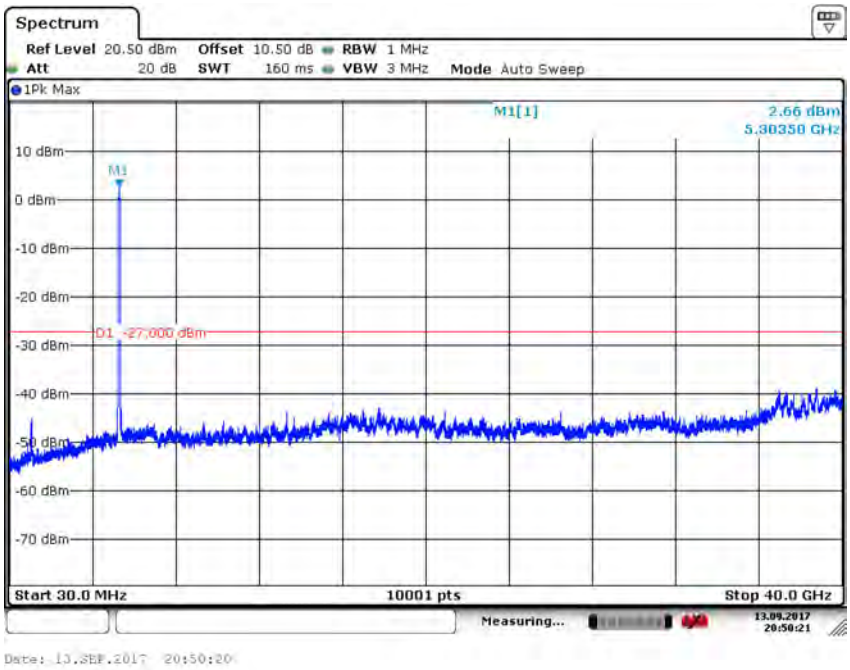



Carrier frequency (MHz): 5270
Test Mode: 802.11ac (HT40)




Carrier frequency (MHz): 5310
Test Mode: 802.11ac (HT40)

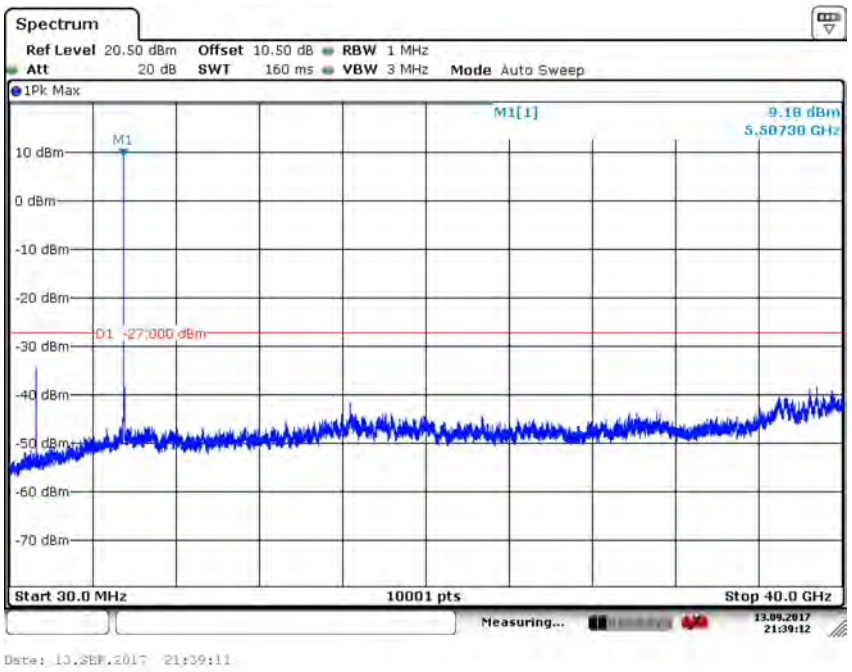
Test Mode: 802.11ac (HT80)



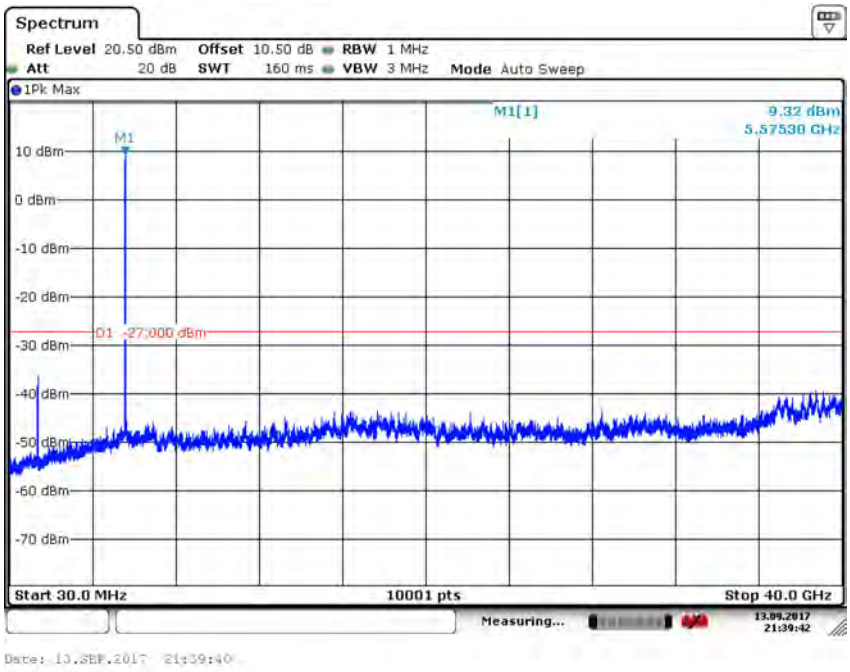

Carrier frequency (MHz): 5290
Test Mode: 802.11ac (HT80)

5470MHz~5725MHz

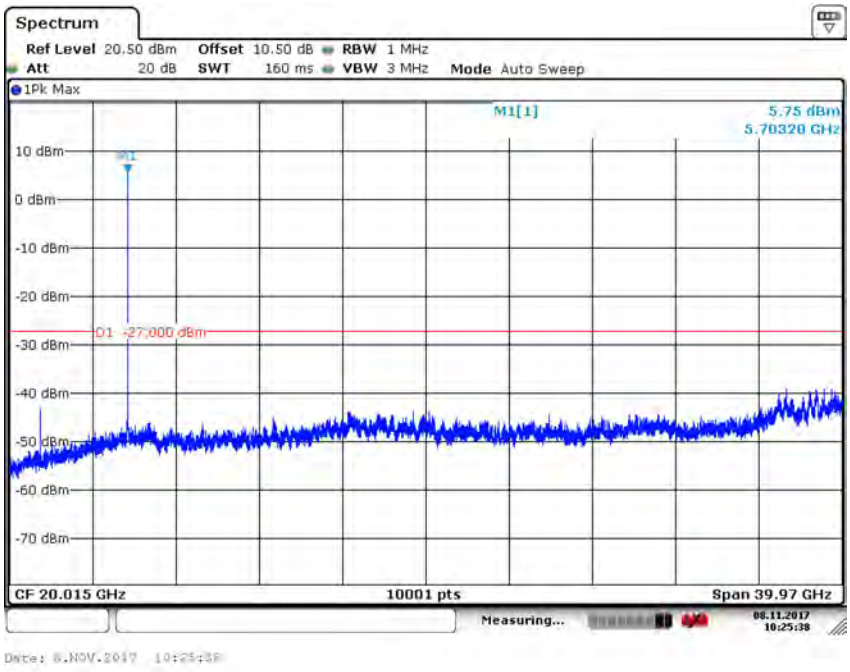
Test Mode: 802.11a




Carrier frequency (MHz): 5500
Test Mode: 802.11a

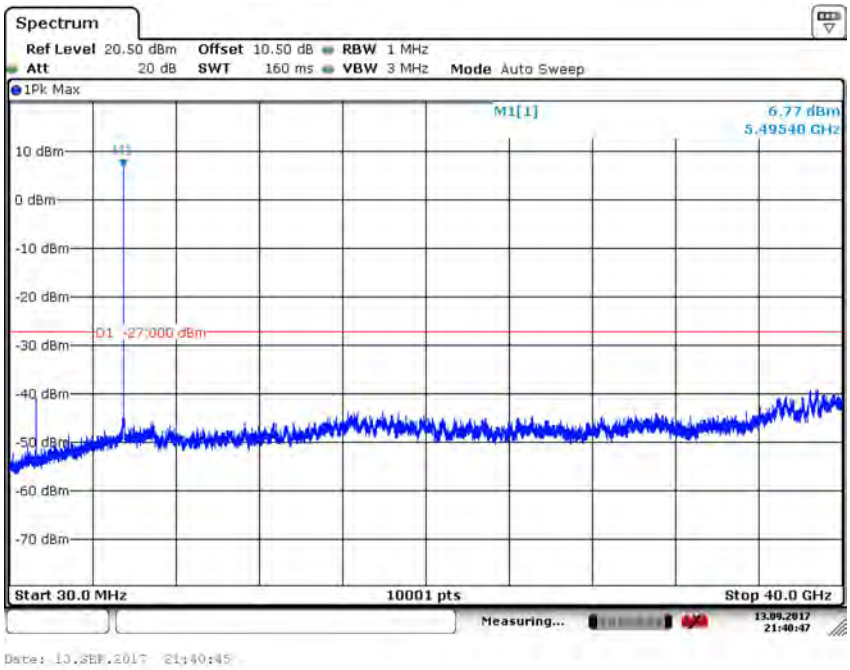



Carrier frequency (MHz): 5580
Test Mode: 802.11a

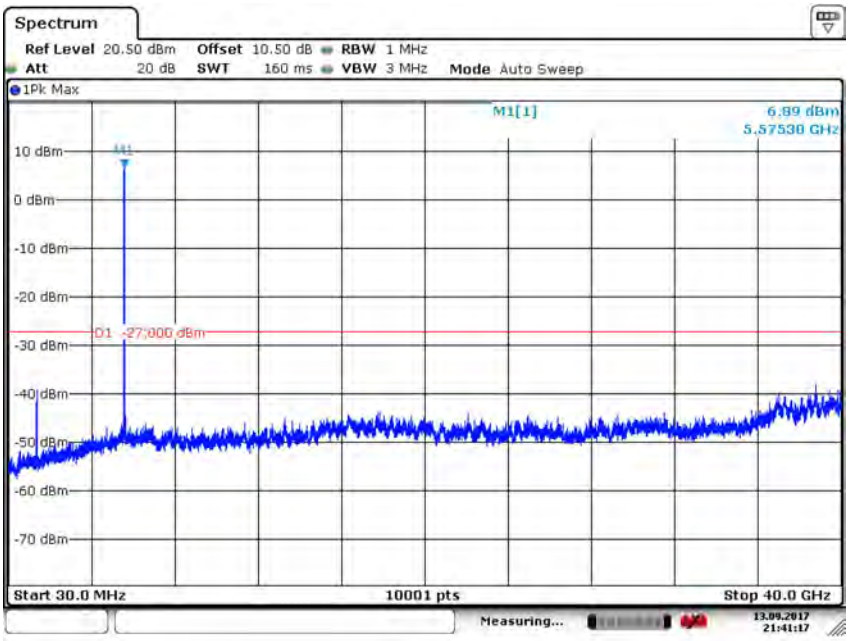



Carrier frequency (MHz): 5700
Test Mode: 802.11a

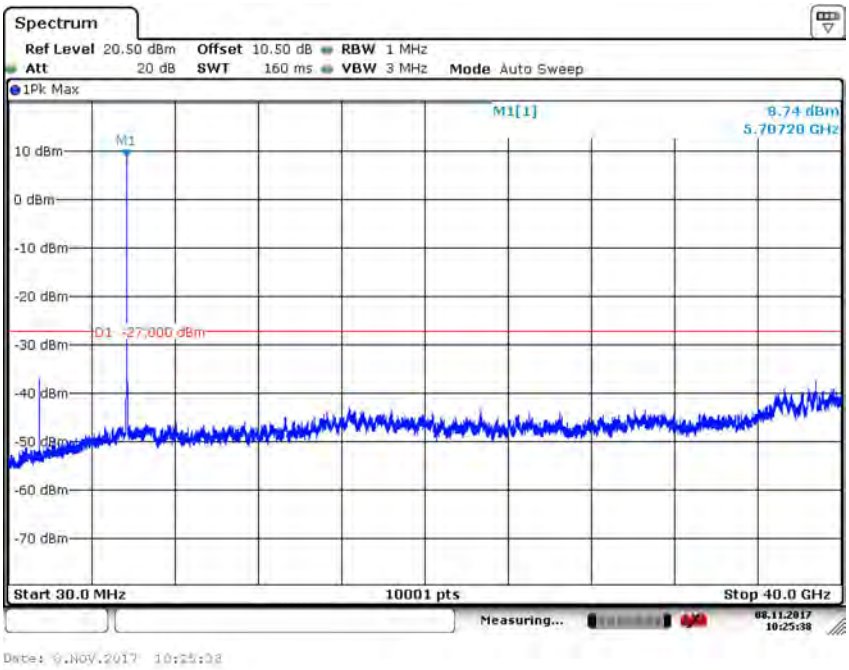
Test Mode: 802.11n (HT20)




Carrier frequency (MHz): 5500
Test Mode: 802.11n (HT20)

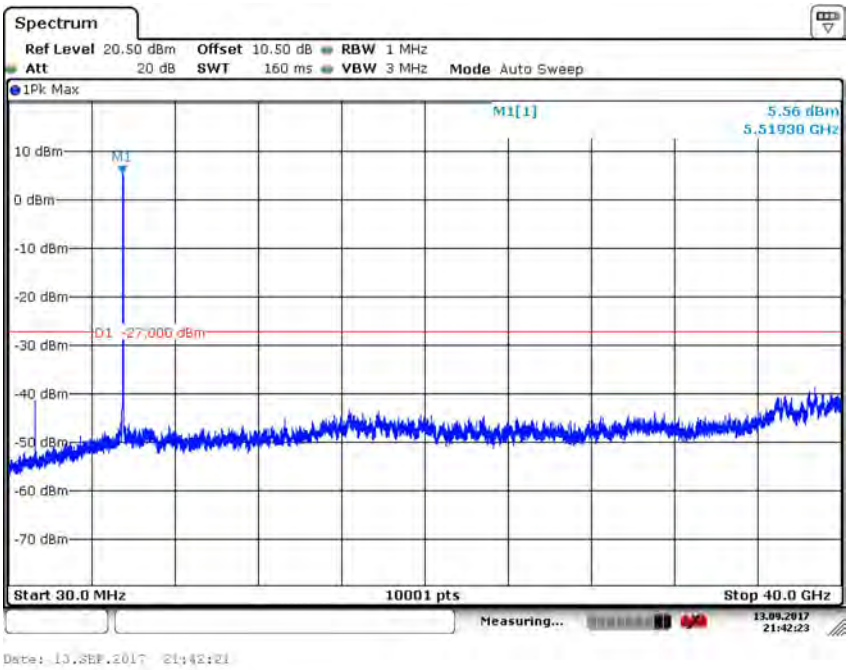



Carrier frequency (MHz): 5580
Test Mode: 802.11n (HT20)

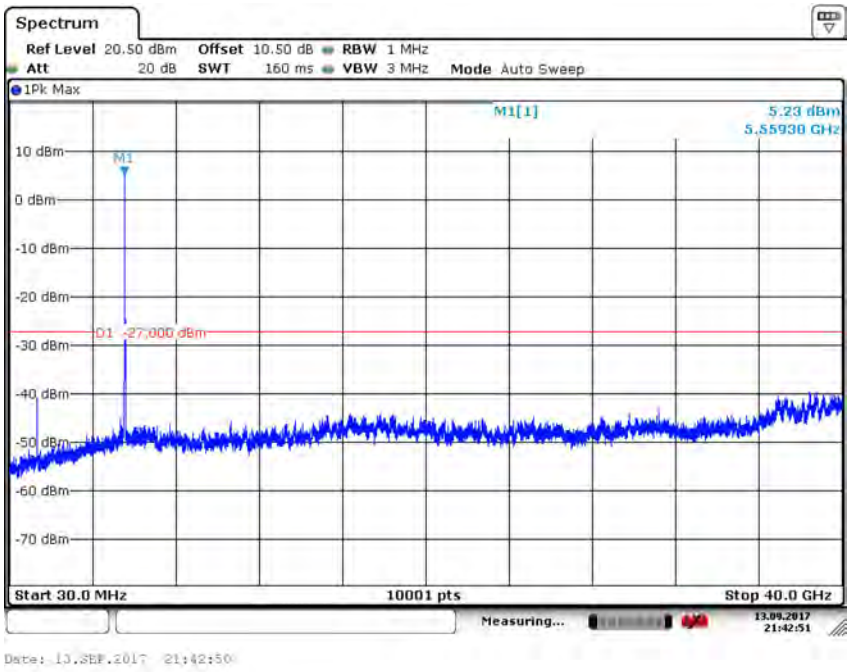



Carrier frequency (MHz): 5700
Test Mode: 802.11n (HT20)

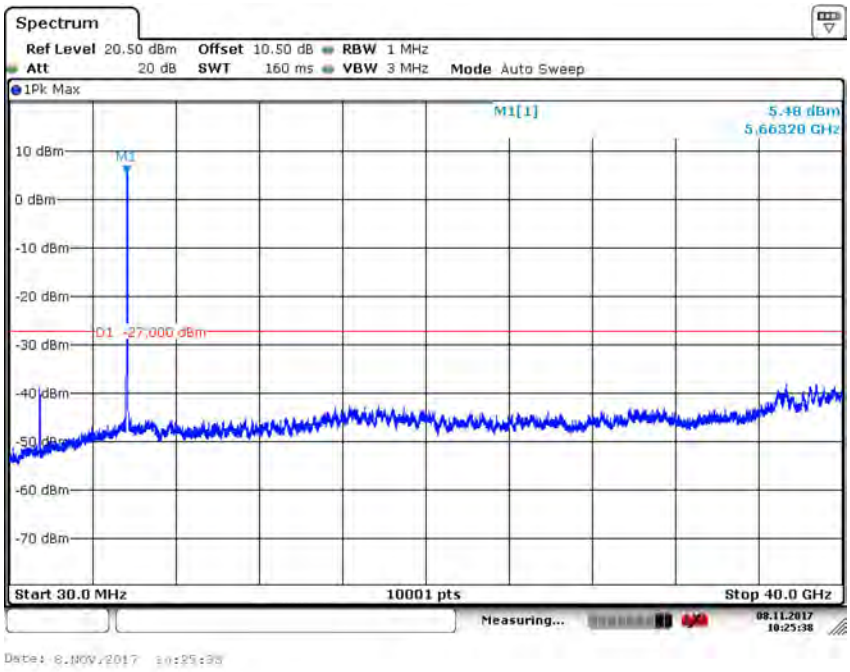
Test Mode: 802.11n (HT40)




Carrier frequency (MHz): 5510
Test Mode: 802.11n (HT40)

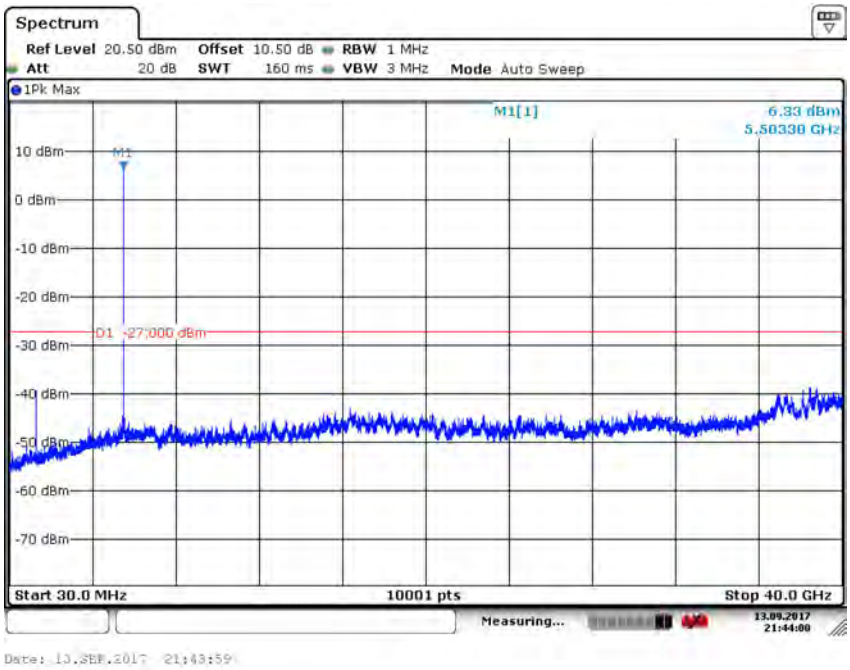



Carrier frequency (MHz): 5550
Test Mode: 802.11n (HT40)

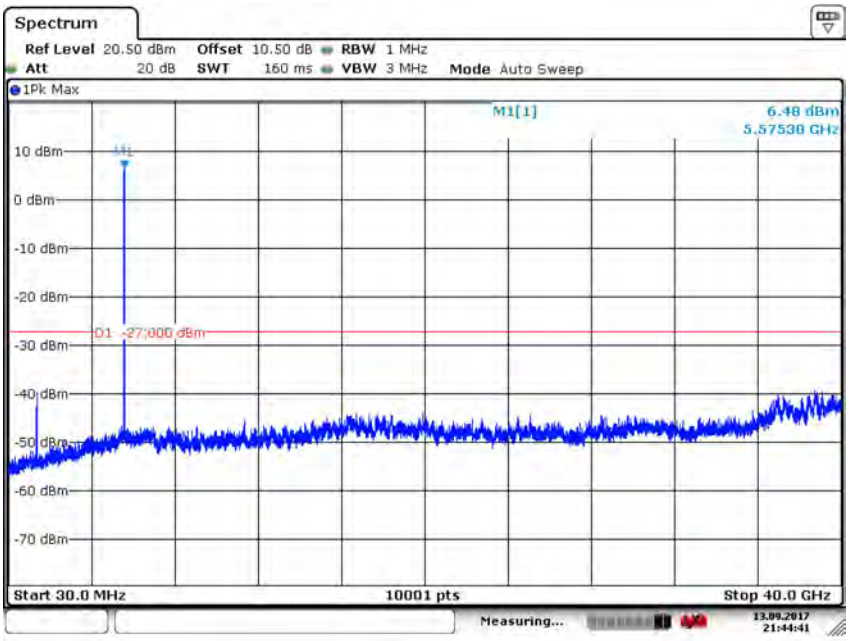



Carrier frequency (MHz): 5670
Test Mode: 802.11n (HT40)

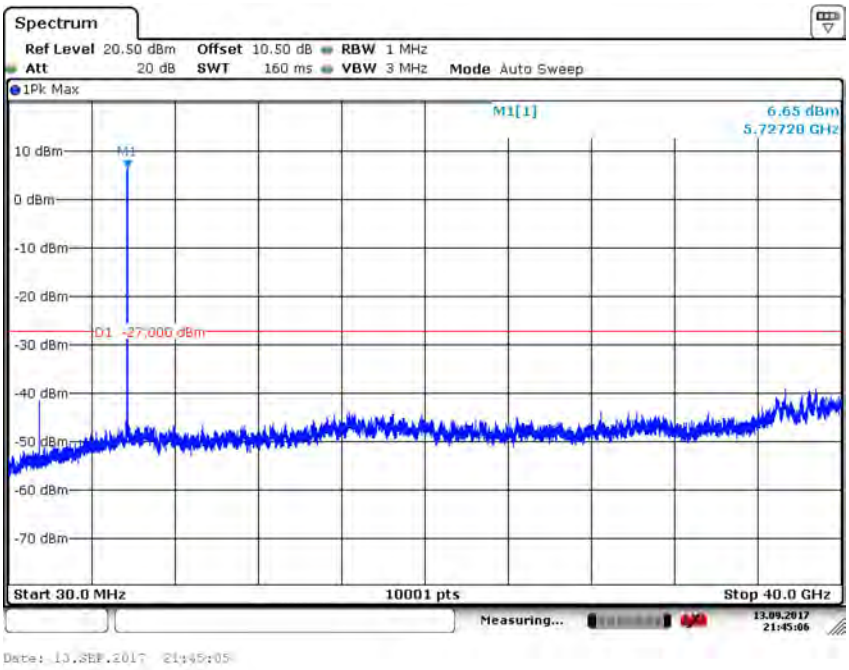
Test Mode: 802.11ac (HT20)




Carrier frequency (MHz): 5500
Test Mode: 802.11ac (HT20)

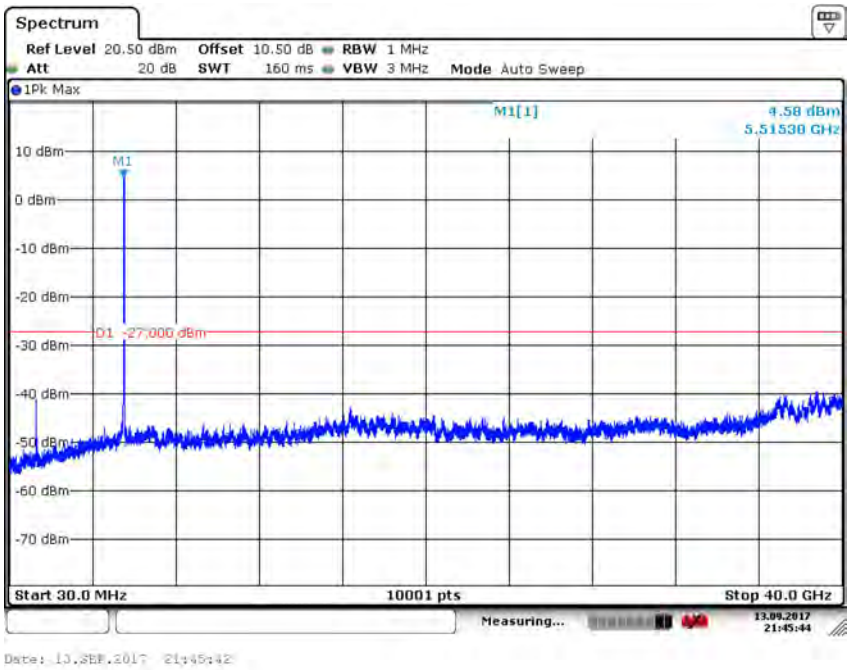



Carrier frequency (MHz): 5580
Test Mode: 802.11ac (HT20)

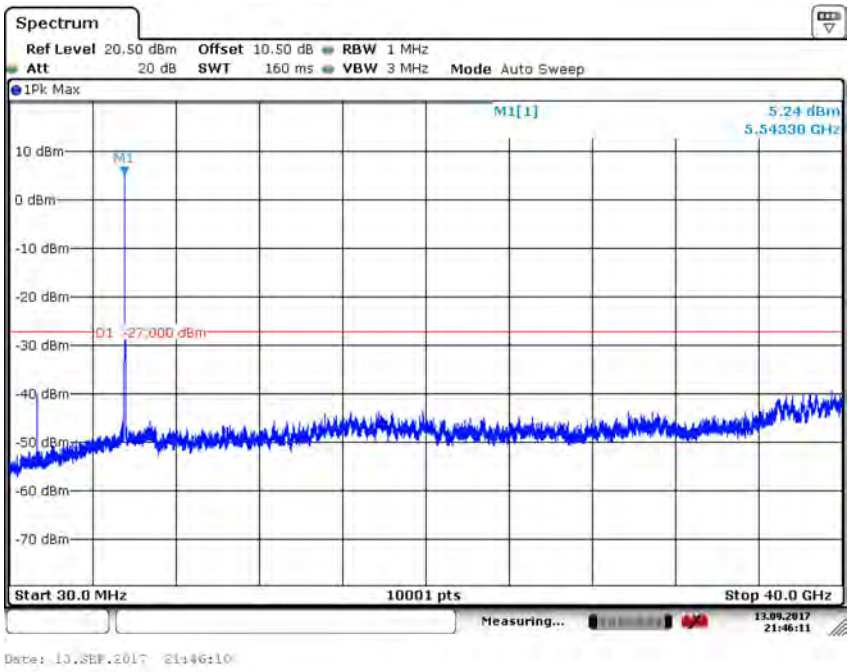



Carrier frequency (MHz): 5720
Test Mode: 802.11ac (HT20)

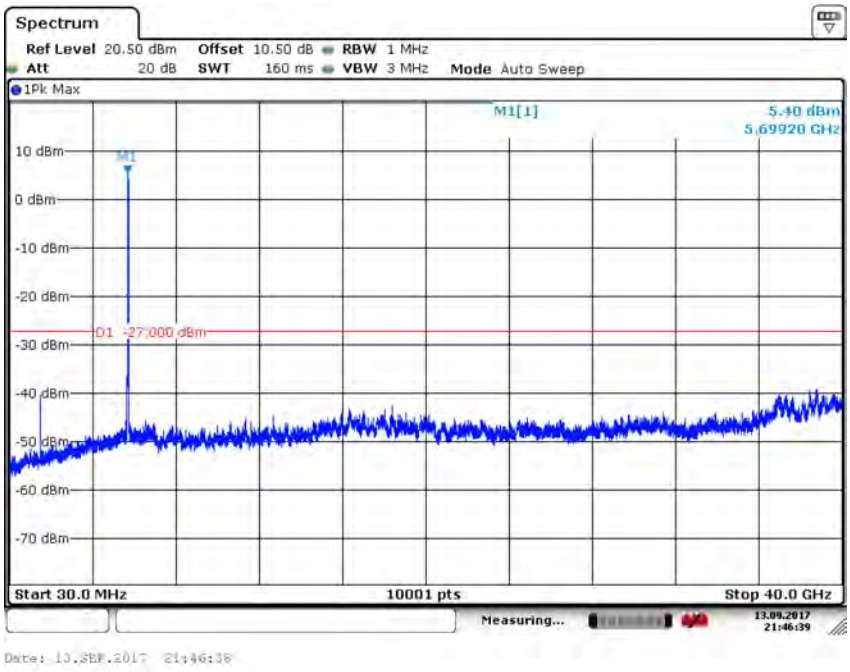
Test Mode: 802.11ac (HT40)




Carrier frequency (MHz): 5510
Test Mode: 802.11ac (HT40)

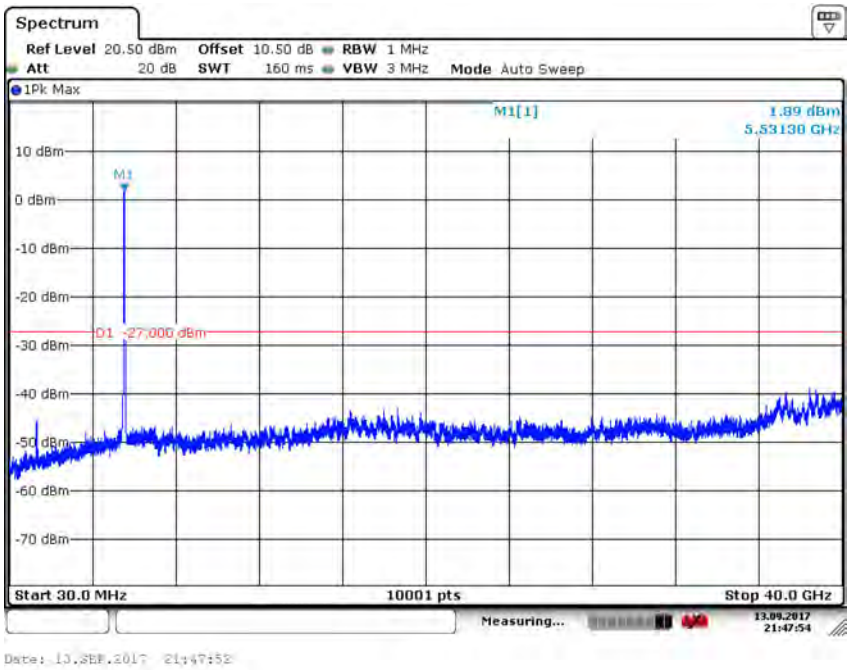



Carrier frequency (MHz): 5550
Test Mode: 802.11ac (HT40)

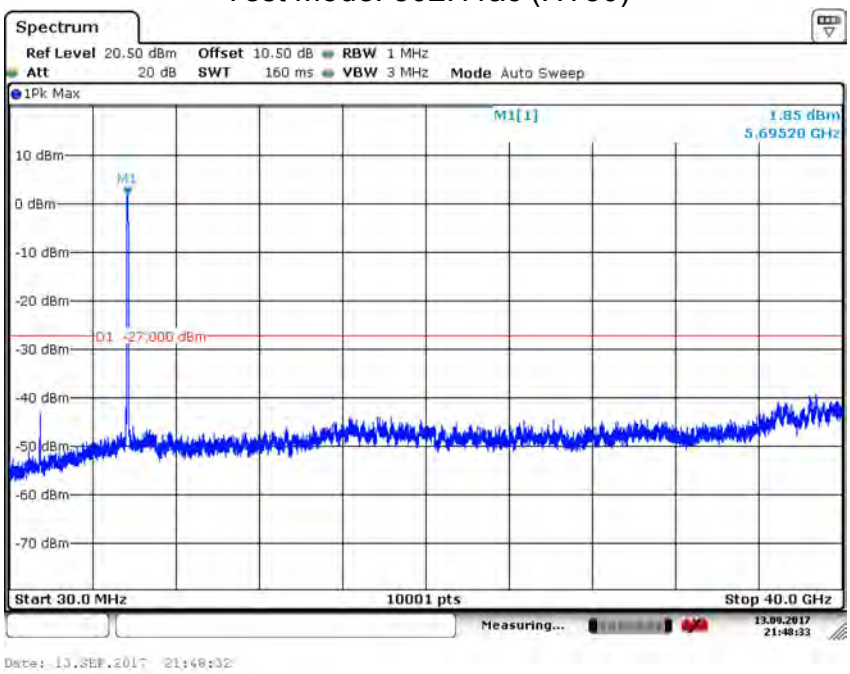



Carrier frequency (MHz): 5710
Test Mode: 802.11ac (HT40)

Test Mode: 802.11ac (HT80)



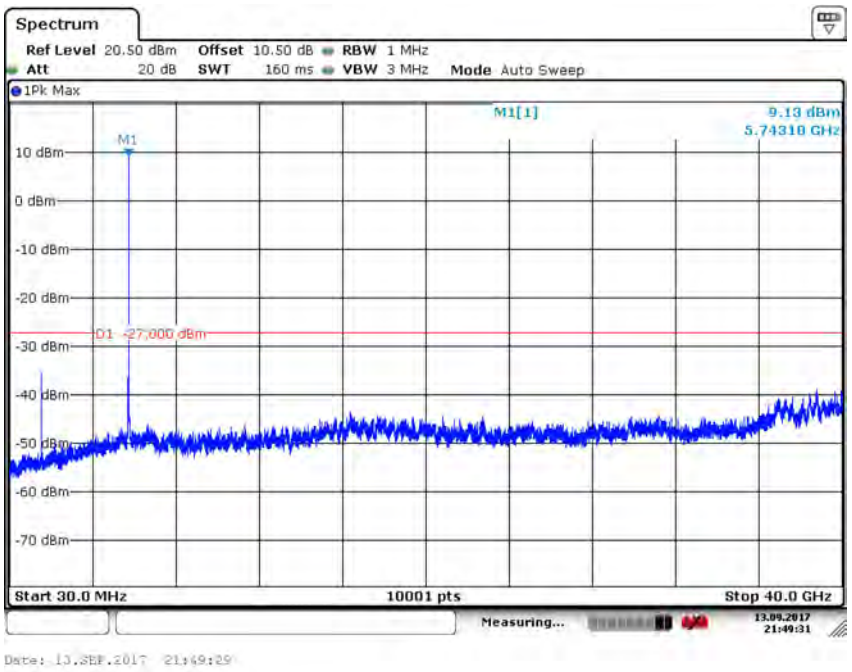

Carrier frequency (MHz): 5530
Test Mode: 802.11ac (HT80)



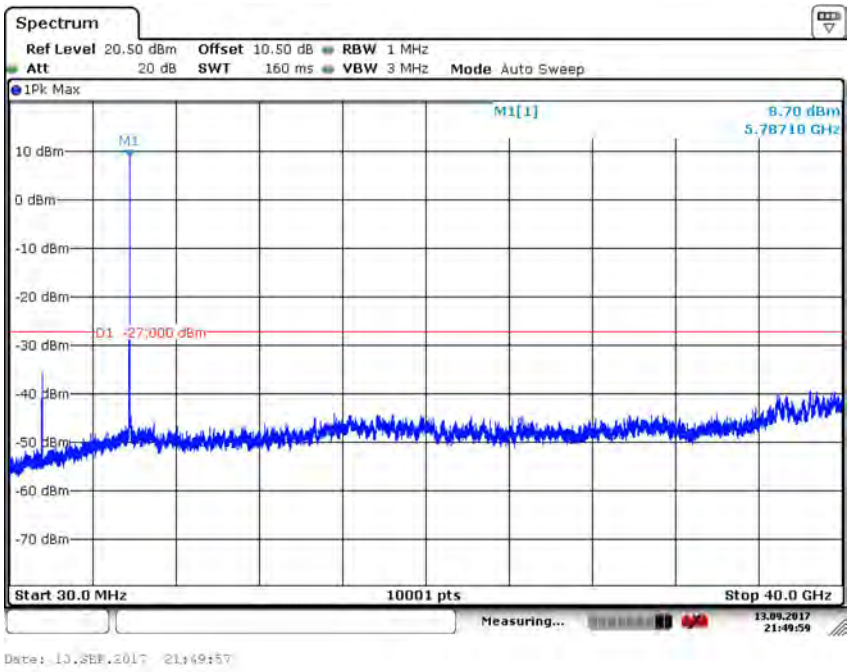

Carrier frequency (MHz): 5690
Test Mode: 802.11ac (HT80)

5725MHz~5825MHz

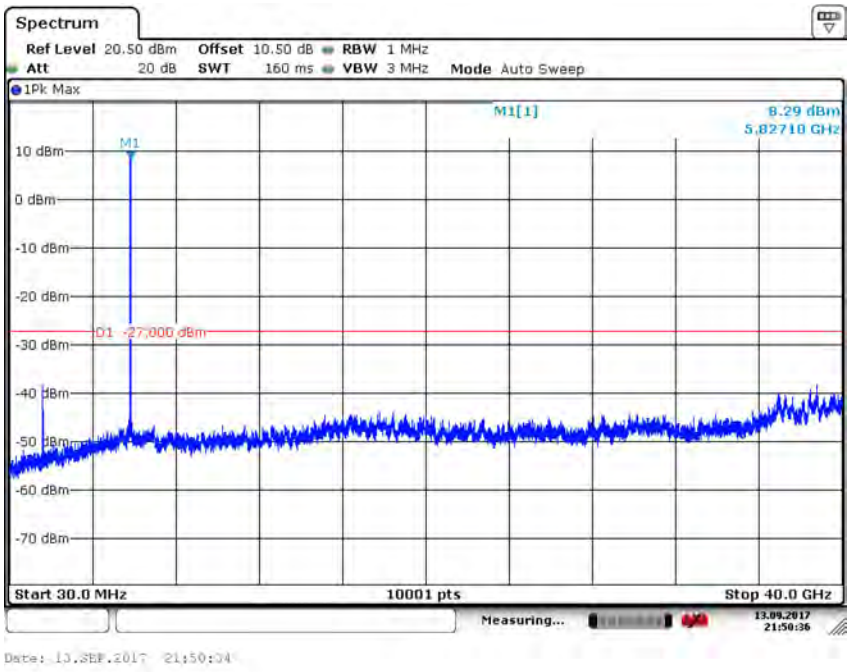
Test Mode: 802.11a




Carrier frequency (MHz): 5745
Test Mode: 802.11a

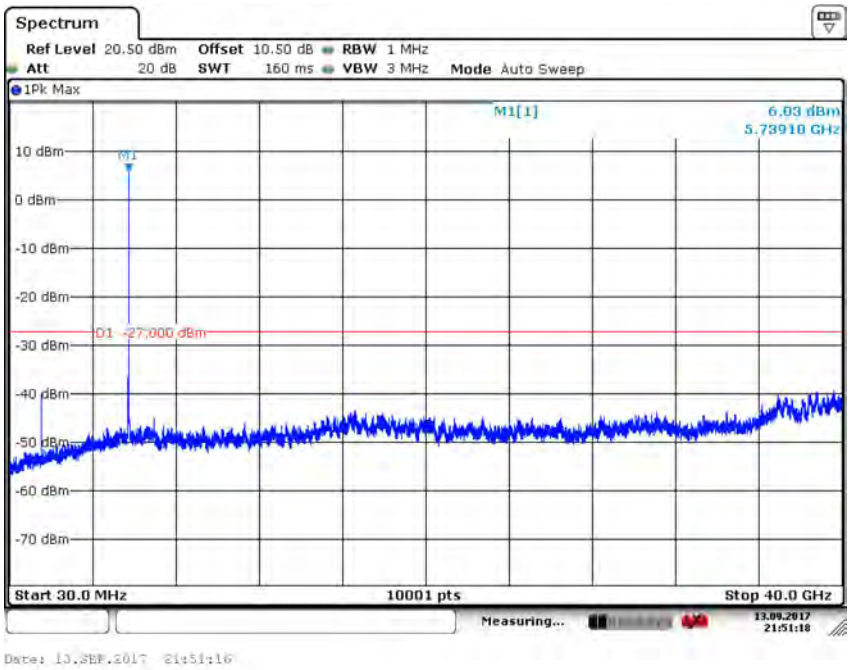



Carrier frequency (MHz): 5785
Test Mode: 802.11a

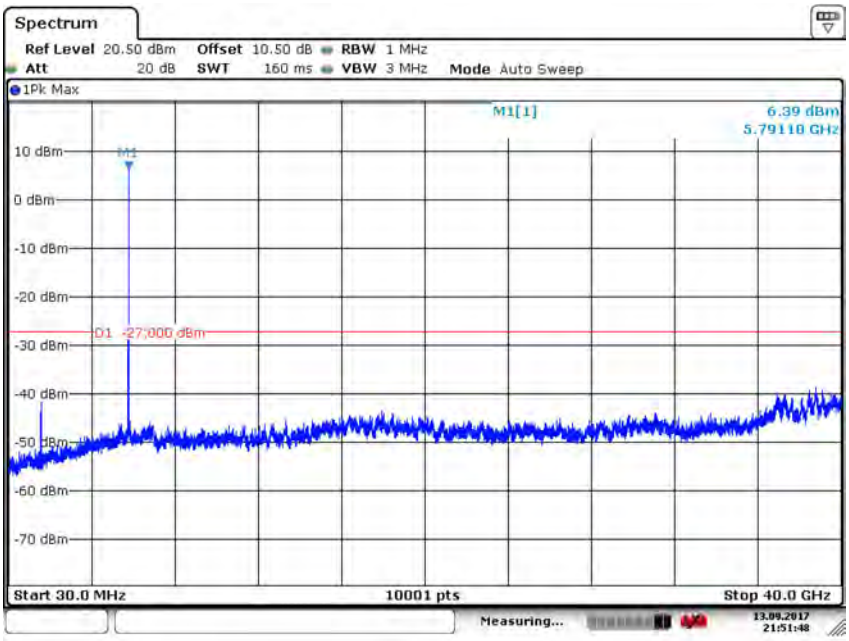



Carrier frequency (MHz): 5825
Test Mode: 802.11a

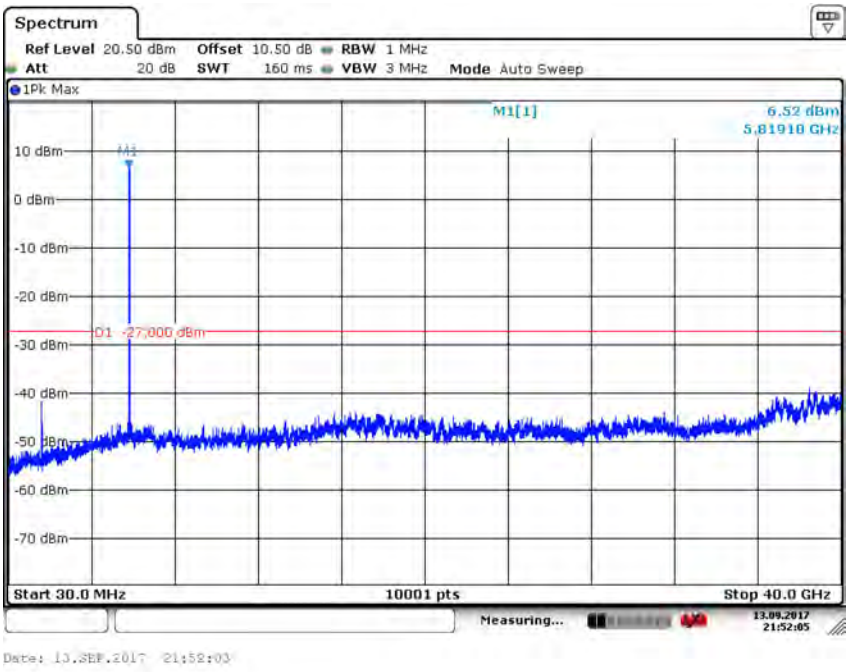
Test Mode: 802.11n (HT20)




Carrier frequency (MHz): 5745
Test Mode: 802.11n (HT20)

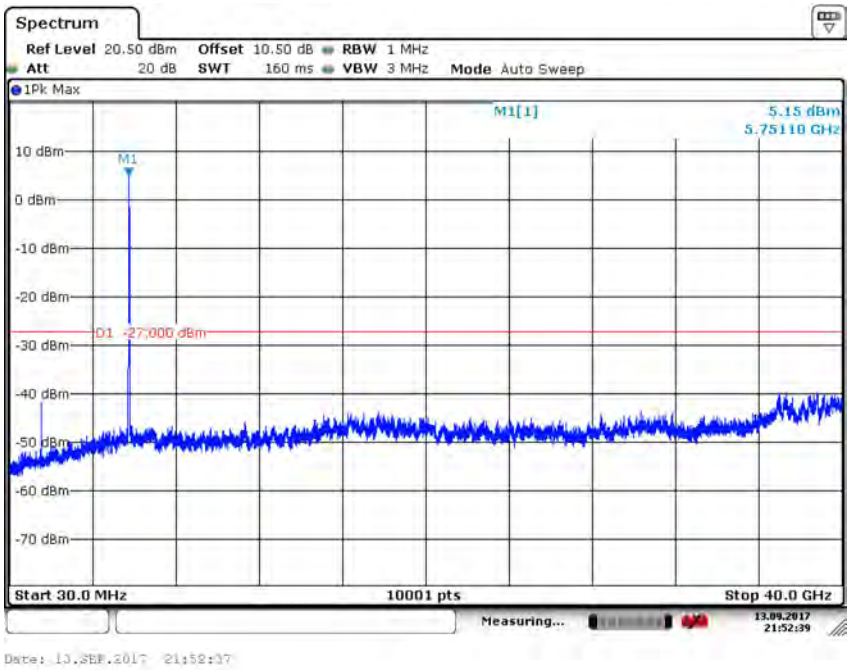



Carrier frequency (MHz): 5785
Test Mode: 802.11n (HT20)

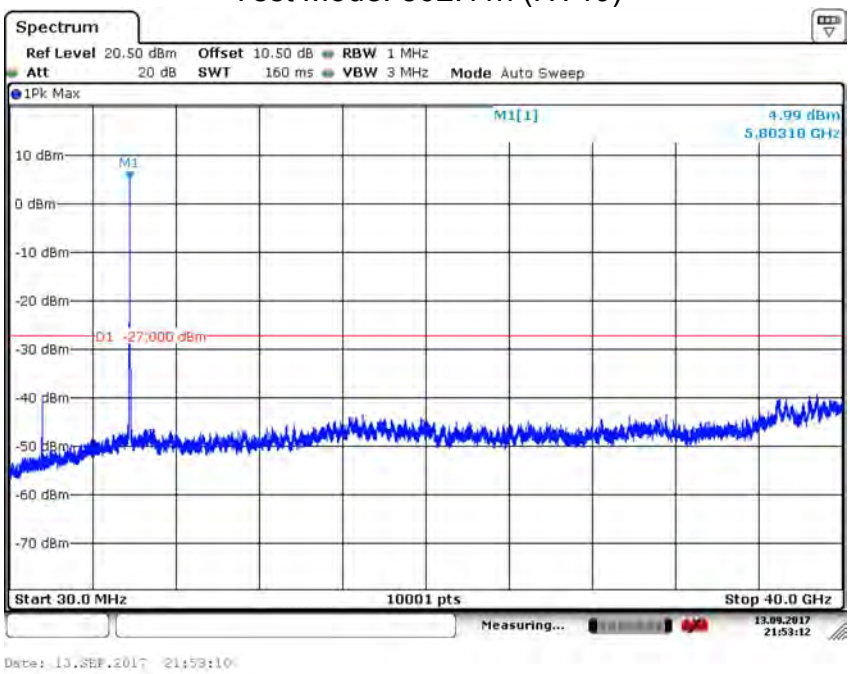



Carrier frequency (MHz): 5825
Test Mode: 802.11n (HT20)

Test Mode: 802.11n (HT40)



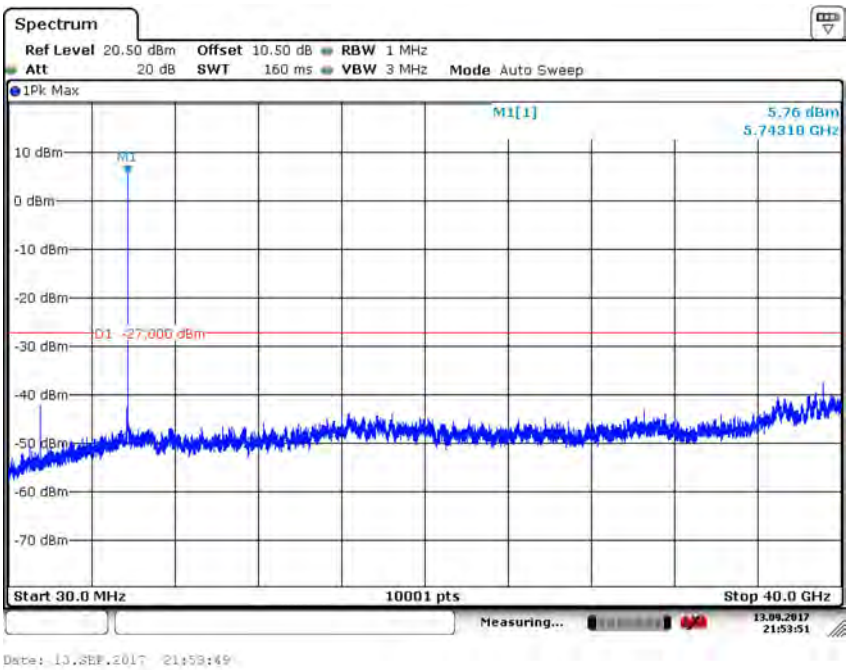

Carrier frequency (MHz): 5755
Test Mode: 802.11n (HT40)



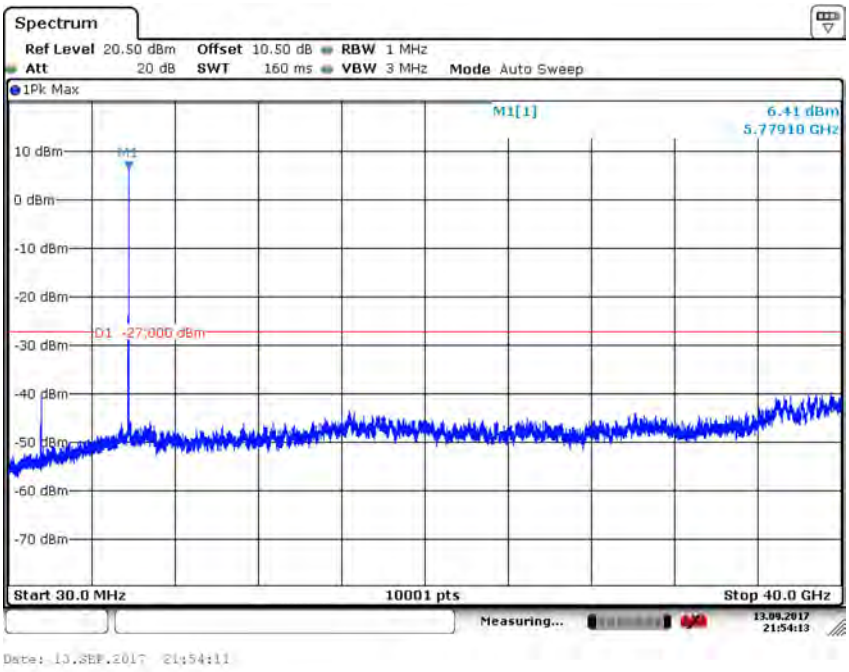

Carrier frequency (MHz): 5795
Test Mode: 802.11n (HT40)

Test Mode: 802.11ac (HT20)

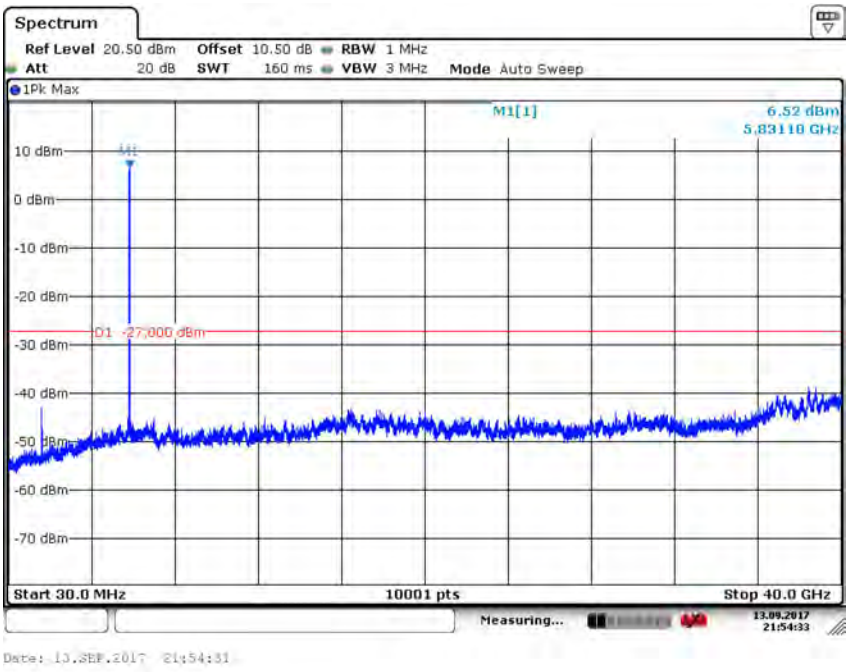
| Carrier frequency (MHz) | Power Density (dBm) |
|---|---|
| 5745 | 5.76 |
| 5785 | 6.41 |
| 5825 | 6.52 |




Carrier frequency (MHz): 5745
Test Mode: 802.11ac (HT20)

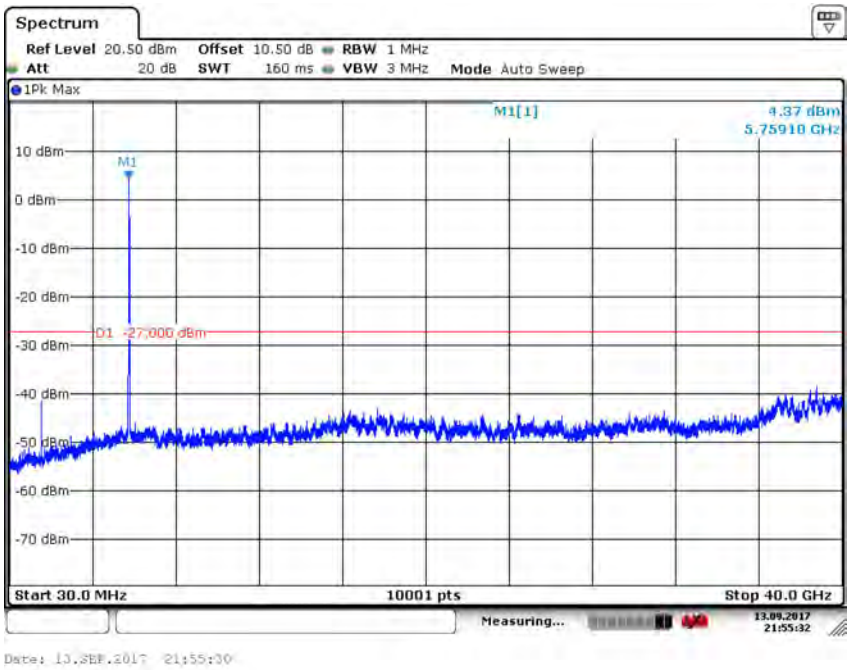



Carrier frequency (MHz): 5785
Test Mode: 802.11ac (HT20)

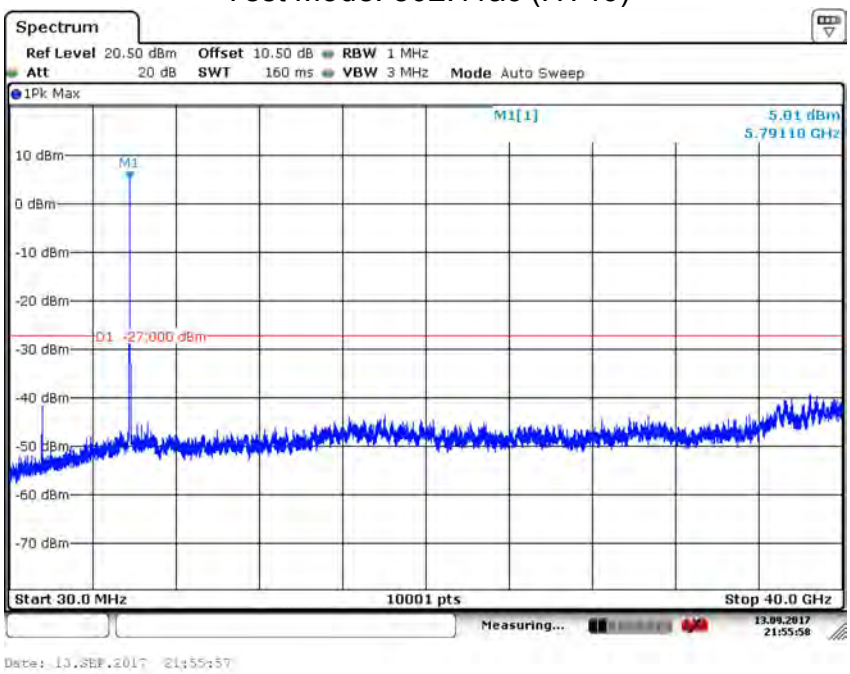



Carrier frequency (MHz): 5825
Test Mode: 802.11ac (HT20)

Test Mode: 802.11ac (HT40)



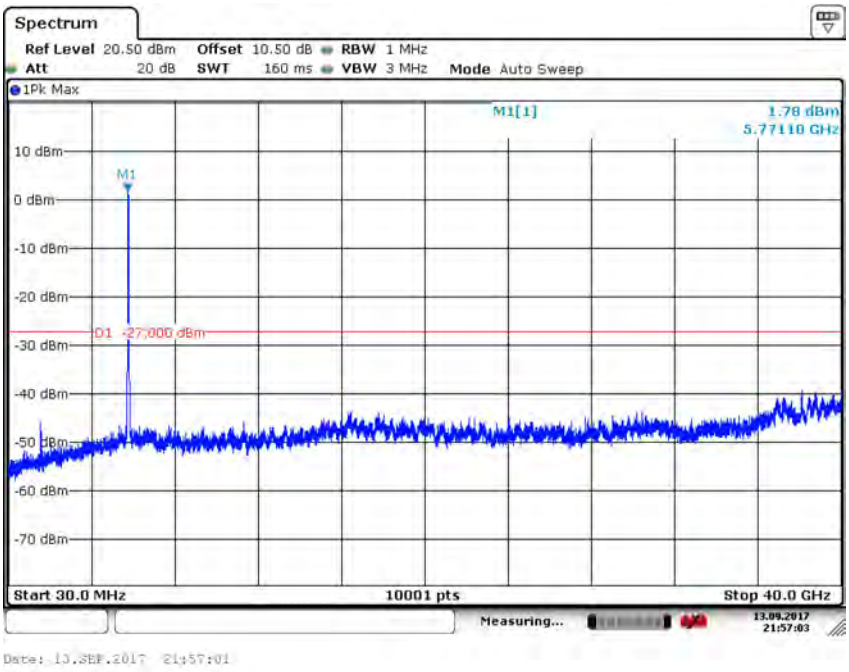

Carrier frequency (MHz): 5755
Test Mode: 802.11ac (HT40)




Carrier frequency (MHz): 5795
Test Mode: 802.11ac (HT40)

Test Mode: 802.11ac (HT80)

| Carrier frequency (MHz) | Power Density (dBm) |
|---|---|
| 5775 | 1.78 |




Carrier frequency (MHz): 5775
Test Mode: 802.11ac (HT80)

## Frequency Stability (15.407 (g))

5150-5250MHz
802.11a:

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5180 MHz | 5200 MHz | 5240MHz |
| 0 | 1.742 | 2.188 | 0.834 |
| +10 | 2.129 | 1.430 | 2.790 |
| +20 | 1.026 | 2.025 | 2.416 |
| +30 | 1.292 | 1.538 | 1.450 |
| +40 | 2.482 | 1.685 | 1.627 |
| +45 | 1.423 | 1.875 | 1.749 |
| Voltage | Test Result (ppm)@NT | | |
| | 5180 MHz | 5200 MHz | 5240MHz |
| LV | 2.798 | 1.641 | 1.263 |
| HV | 1.119 | 1.650 | 2.540 |

802.11n (HT20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5180 MHz | 5200 MHz | 5240MHz |
| 0 | 1.429 | 0.676 | 0.929 |
| +10 | 0.916 | 0.736 | 1.148 |
| +20 | 2.671 | 1.634 | 1.431 |
| +30 | 1.121 | 0.860 | 2.524 |
| +40 | 1.985 | 1.348 | 2.598 |
| +45 | 1.697 | 0.935 | 1.929 |
| Voltage | Test Result (ppm)@NT | | |
| | 5180 MHz | 5200 MHz | 5240MHz |
| LV | 1.060 | 0.824 | 1.051 |
| HV | 1.928 | 2.822 | 1.173 |

802.11n (HT40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5190 MHz | 5230 MHz |
| 0 | 1.319 | 0.853 |
| +10 | 1.474 | 1.350 |
| +20 | 0.643 | 1.162 |
| +30 | 2.228 | 1.422 |
| +40 | 1.240 | 1.179 |
| +45 | 2.374 | 1.099 |
| Voltage | Test Result (ppm)@NT | |
| | 5190 MHz | 5230 MHz |
| LV | 2.607 | 2.250 |
| HV | 2.552 | 2.979 |

802.11ac (HT 20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5180 MHz | 5200 MHz | 5240MHz |
| 0 | 2.679 | 2.556 | 0.808 |
| +10 | 0.693 | 1.310 | 0.916 |
| +20 | 1.726 | 1.538 | 2.999 |
| +30 | 2.219 | 2.696 | 1.476 |
| +40 | 2.842 | 2.430 | 1.362 |
| +45 | 0.841 | 1.095 | 2.976 |
| Voltage | Test Result (ppm)@NT | | |
| | 5180 MHz | 5200 MHz | 5240MHz |
| LV | 2.666 | 2.174 | 1.130 |
| HV | 2.259 | 2.501 | 2.778 |

802.11ac (HT 40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5190 MHz | 5230 MHz |
| 0 | 2.613 | 0.871 |
| +10 | 1.703 | 2.315 |
| +20 | 1.606 | 1.612 |
| +30 | 0.657 | 1.525 |
| +40 | 1.898 | 2.621 |
| +45 | 1.619 | 2.260 |
| Voltage | Test Result (ppm)@NT | |
| | 5190 MHz | 5230 MHz |
| LV | 2.806 | 2.692 |
| HV | 2.166 | 2.803 |

802.11ac (HT 80):

| Temperature(°C) | Test Result (ppm)@NV |
|---|---|
| | 5210 MHz |
| 0 | 1.678 |
| +10 | 1.811 |
| +20 | 2.509 |
| +30 | 2.810 |
| +40 | 1.450 |
| +45 | 2.478 |
| Voltage | Test Result (ppm)@NT |
| | 5210 MHz |
| LV | 1.648 |
| HV | 2.472 |

5250-5350MHz

802.11a:

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5260 MHz | 5280 MHz | 5320MHz |
| 0 | 2.486 | 1.499 | 2.989 |
| +10 | 2.058 | 1.340 | 1.306 |
| +20 | 1.646 | 2.763 | 2.904 |
| +30 | 2.395 | 1.609 | 1.242 |
| +40 | 1.792 | 1.207 | 0.845 |
| +45 | 1.330 | 1.693 | 1.202 |
| Voltage | Test Result (ppm)@NT | | |
| | 5260 MHz | 5280 MHz | 5320MHz |
| LV | 2.651 | 1.322 | 2.631 |
| HV | 1.132 | 1.009 | 0.647 |

802.11n (HT20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5260 MHz | 5280 MHz | 5320MHz |
| 0 | 1.733 | 2.084 | 1.598 |
| +10 | 2.842 | 2.535 | 0.761 |
| +20 | 1.672 | 1.442 | 2.217 |
| +30 | 2.579 | 2.024 | 2.694 |
| +40 | 2.023 | 2.525 | 2.602 |
| +45 | 1.087 | 2.248 | 2.347 |
| Voltage | Test Result (ppm)@NT | | |
| | 5260 MHz | 5280 MHz | 5320MHz |
| LV | 1.899 | 2.089 | 2.825 |
| HV | 2.037 | 1.654 | 2.416 |

802.11n (HT40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5270 MHz | 5310 MHz |
| 0 | 2.591 | 1.617 |
| +10 | 0.766 | 1.435 |
| +20 | 1.142 | 0.871 |
| +30 | 0.774 | 1.606 |
| +40 | 1.535 | 2.312 |
| +45 | 1.993 | 2.434 |
| Voltage | Test Result (ppm)@NT | |
| | 5270 MHz | 5310 MHz |
| LV | 2.490 | 1.588 |
| HV | 1.389 | 1.487 |

802.11ac (HT 20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5260 MHz | 5280 MHz | 5320MHz |
| 0 | 0.910 | 2.897 | 2.225 |
| +10 | 1.768 | 1.470 | 1.422 |
| +20 | 1.695 | 0.803 | 2.041 |
| +30 | 1.894 | 2.734 | 1.534 |
| +40 | 1.761 | 2.934 | 0.747 |
| +45 | 1.670 | 1.401 | 0.664 |
| Voltage | Test Result (ppm)@NT | | |
| | 5260 MHz | 5280 MHz | 5320MHz |
| LV | 2.659 | 2.761 | 0.882 |
| HV | 1.253 | 0.809 | 1.341 |

802.11ac (HT 40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5270 MHz | 5310 MHz |
| 0 | 1.548 | 2.473 |
| +10 | 1.602 | 2.653 |
| +20 | 1.986 | 2.817 |
| +30 | 1.693 | 1.218 |
| +40 | 2.289 | 1.513 |
| +45 | 1.301 | 2.751 |
| Voltage | Test Result (ppm)@NT | |
| | 5270 MHz | 5310 MHz |
| LV | 2.676 | 2.533 |
| HV | 0.783 | 0.811 |

802.11ac (HT 80):

| Temperature(°C) | Test Result (ppm)@NV |
|---|---|
| | 5290 MHz |
| 0 | 2.765 |
| +10 | 1.216 |
| +20 | 2.988 |
| +30 | 2.297 |
| +40 | 2.948 |
| +45 | 1.998 |
| Voltage | Test Result (ppm)@NT |
| | 5290 MHz |
| LV | 2.443 |
| HV | 2.298 |

5470-5725MHz

802.11a:

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5500 MHz | 5580 MHz | 5700MHz |
| 0 | 2.686 | 0.940 | 0.994 |
| +10 | 2.594 | 2.369 | 2.980 |
| +20 | 2.101 | 1.950 | 2.526 |
| +30 | 1.287 | 0.829 | 2.814 |
| +40 | 1.356 | 1.566 | 1.878 |
| +45 | 1.344 | 1.233 | 1.427 |
| Voltage | Test Result (ppm)@NT | | |
| | 5500 MHz | 5580 MHz | 5700MHz |
| LV | 2.656 | 0.893 | 2.398 |
| HV | 2.121 | 1.530 | 2.796 |

802.11n (HT20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5500 MHz | 5580 MHz | 5700MHz |
| 0 | 2.934 | 2.155 | 2.628 |
| +10 | 2.473 | 0.929 | 1.492 |
| +20 | 1.403 | 0.796 | 1.558 |
| +30 | 1.630 | 1.952 | 2.983 |
| +40 | 2.545 | 1.828 | 0.784 |
| +45 | 2.073 | 1.888 | 2.271 |
| Voltage | Test Result (ppm)@NT | | |
| | 5500 MHz | 5580 MHz | 5700MHz |
| LV | 1.545 | 1.071 | 2.868 |
| HV | 1.212 | 0.999 | 2.570 |

802.11n (HT40):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5510 MHz | 5550MHz | 5670 MHz |
| 0 | 1.780 | 2.824 | 1.079 |
| +10 | 1.472 | 1.944 | 2.034 |
| +20 | 1.427 | 2.803 | 1.480 |
| +30 | 0.941 | 0.752 | 2.687 |
| +40 | 2.849 | 2.135 | 1.604 |
| +45 | 2.410 | 1.003 | 2.565 |
| Voltage | Test Result (ppm)@NT | | |
| | 5510 MHz | 5550MHz | 5670 MHz |
| LV | 1.313 | 2.125 | 2.565 |
| HV | 1.539 | 2.685 | 1.920 |

802.11ac (HT 20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5550 MHz | 5580 MHz | 5720MHz |
| 0 | 2.701 | 1.144 | 2.622 |
| +10 | 2.701 | 2.008 | 0.923 |
| +20 | 0.774 | 2.620 | 1.842 |
| +30 | 2.472 | 1.619 | 1.631 |
| +40 | 2.311 | 2.077 | 0.665 |
| +45 | 0.926 | 2.186 | 2.458 |
| Voltage | Test Result (ppm)@NT | | |
| | 5550 MHz | 5580 MHz | 5720MHz |
| LV | 2.539 | 1.658 | 2.706 |
| HV | 0.938 | 1.669 | 1.454 |

802.11ac (HT 40):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5510 MHz | 5550MHz | 5710 MHz |
| 0 | 2.619 | 0.666 | 1.570 |
| +10 | 1.680 | 1.502 | 2.909 |
| +20 | 1.755 | 2.829 | 2.546 |
| +30 | 1.373 | 1.342 | 1.738 |
| +40 | 2.805 | 2.100 | 2.598 |
| +45 | 2.561 | 2.067 | 2.343 |
| Voltage | Test Result (ppm)@NT | | |
| | 5510 MHz | 5550MHz | 5710 MHz |
| LV | 1.214 | 2.615 | 2.931 |
| HV | 2.147 | 1.448 | 1.360 |

802.11ac (HT 80):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5530 MHz | 5690MHz |
| 0 | 1.952 | 2.457 |
| +10 | 1.428 | 2.175 |
| +20 | 1.400 | 2.065 |
| +30 | 1.521 | 0.917 |
| +40 | 2.659 | 2.786 |
| +45 | 2.666 | 1.615 |
| Voltage | Test Result (ppm)@NT | |
| | 5530 MHz | 5690MHz |
| LV | 2.699 | 2.501 |
| HV | 1.540 | 2.597 |

5725-5850MHz

802.11a:

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5745 MHz | 5785 MHz | 5825MHz |
| 0 | 2.568 | 1.325 | 1.589 |
| +10 | 0.810 | 2.554 | 0.652 |
| +20 | 2.212 | 1.495 | 2.264 |
| +30 | 0.725 | 2.996 | 0.998 |
| +40 | 1.889 | 2.030 | 1.861 |
| +45 | 1.746 | 1.552 | 2.688 |
| Voltage | Test Result (ppm)@NT | | |
| | 5745 MHz | 5785 MHz | 5825MHz |
| LV | 0.680 | 2.599 | 0.903 |
| HV | 2.689 | 1.299 | 2.668 |

802.11n (HT20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5745 MHz | 5785 MHz | 5825MHz |
| 0 | 0.936 | 1.411 | 2.165 |
| +10 | 2.145 | 2.505 | 1.682 |
| +20 | 2.725 | 2.846 | 1.202 |
| +30 | 0.787 | 2.993 | 0.916 |
| +40 | 1.399 | 2.818 | 2.743 |
| +45 | 2.650 | 1.748 | 0.721 |
| Voltage | Test Result (ppm)@NT | | |
| | 5745 MHz | 5785 MHz | 5825MHz |
| LV | 1.297 | 2.287 | 1.580 |
| HV | 2.407 | 1.314 | 0.778 |

802.11n (HT40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5755 MHz | 5795 MHz |
| 0 | 1.024 | 0.950 |
| +10 | 1.052 | 2.870 |
| +20 | 2.220 | 0.858 |
| +30 | 1.115 | 1.978 |
| +40 | 2.808 | 1.345 |
| +45 | 0.735 | 1.998 |
| Voltage | Test Result (ppm)@NT | |
| | 5755 MHz | 5795 MHz |
| LV | 1.539 | 2.922 |
| HV | 0.721 | 1.986 |

802.11ac (HT 20):

| Temperature(°C) | Test Result (ppm)@NV | | |
|---|---|---|---|
| | 5745 MHz | 5785 MHz | 5825MHz |
| 0 | 1.202 | 1.324 | 1.429 |
| +10 | 1.363 | 2.030 | 2.725 |
| +20 | 2.349 | 2.906 | 2.882 |
| +30 | 1.192 | 0.746 | 2.788 |
| +40 | 1.935 | 1.396 | 1.363 |
| +45 | 2.464 | 2.285 | 1.043 |
| Voltage | Test Result (ppm)@NT | | |
| | 5745 MHz | 5785 MHz | 5825MHz |
| LV | 1.026 | 0.989 | 1.283 |
| HV | 2.206 | 0.987 | 1.440 |

802.11ac (HT 40):

| Temperature(°C) | Test Result (ppm)@NV | |
|---|---|---|
| | 5755 MHz | 5795 MHz |
| 0 | 2.253 | 1.780 |
| +10 | 2.981 | 2.007 |
| +20 | 2.594 | 0.799 |
| +30 | 2.086 | 0.962 |
| +40 | 2.712 | 1.566 |
| +45 | 2.552 | 1.616 |
| Voltage | Test Result (ppm)@NT | |
| | 5755 MHz | 5795 MHz |
| LV | 2.242 | 1.994 |
| HV | 1.705 | 2.022 |

802.11ac (HT 80):

| Temperature(°C) | Test Result (ppm)@NV |
|---|---|
| | 5775 MHz |
| 0 | 1.984 |
| +10 | 0.778 |
| +20 | 2.265 |
| +30 | 1.338 |
| +40 | 2.393 |
| +45 | 1.969 |
| Voltage | Test Result (ppm)@NT |
| | 5775 MHz |
| LV | 1.886 |
| HV | 1.176 |

## Dynamic Frequency Selection

### ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the master and slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

### DESCRIPTION OF EUT

For FCC the EUT operates over the 5250MHz~5350MHz, 5470MHz~5725MHz ranges.

For IC the EUT operates over the 5250MHz~5350MHz, 5470MHz~5725MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

Note 1: The device supports normal mode only, does not support "listen only" mode.
Note 2: The device not supports two client devices can communicate directly.

### EUT power

The highest power level within these bands is 24.46 dBm EIRP in the 5250-5350 MHz band.
The highest power level within these bands is 24.78 dBm EIRP in the 5470-5725 MHz band.
The rated output power of the Master unit is ＞23dBm (EIRP). Therefore the required interference threshold level is –64dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is –64 + 1 = -63 dBm.

WLAN traffic is generated by streaming the video file TestFile.mp2 “61/2 Magic Hours” from the Master to the Slave in full motion video mode using Windows media player.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is V1.0.
The software installed in the access point is AP-150W Version HiveOS 8.1r1 Luoyang build-173566-devdbg.
The software installed in the Keysight BenchVue Signal Generator is 2017.

### UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

## OVERVIEW OF MASTER DEVICE WITH RESPECT TO 15.407(h) REQUIREMENTS

The Master Device is an Aerohive, Inc. Access Point, FCC ID:WBV-AP150W. The minimum antenna gain for the Master Device is 5.88 dBi.

The rated output power of the Master unit is ＞23dBm (EIRP). Therefore the required interference threshold level is –64dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is –64 + 1 = -63 dBm.

The software installed in the access point is AP-150W Version HiveOS 8.1r1 Luoyang build-173566-devdbg.

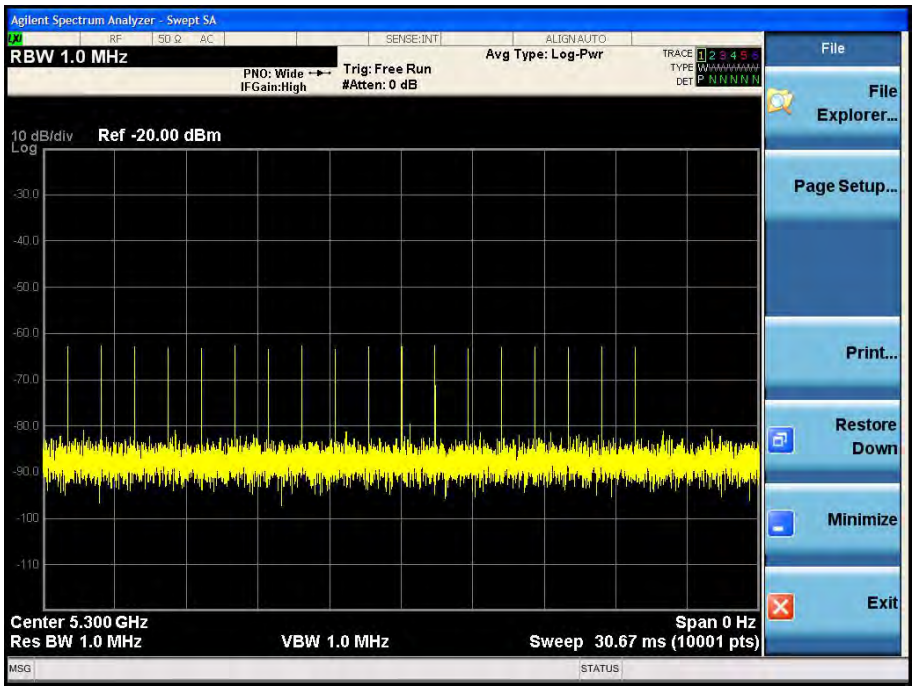
The software installed in the keysight BenchVue Signal Generator is 2017.

## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

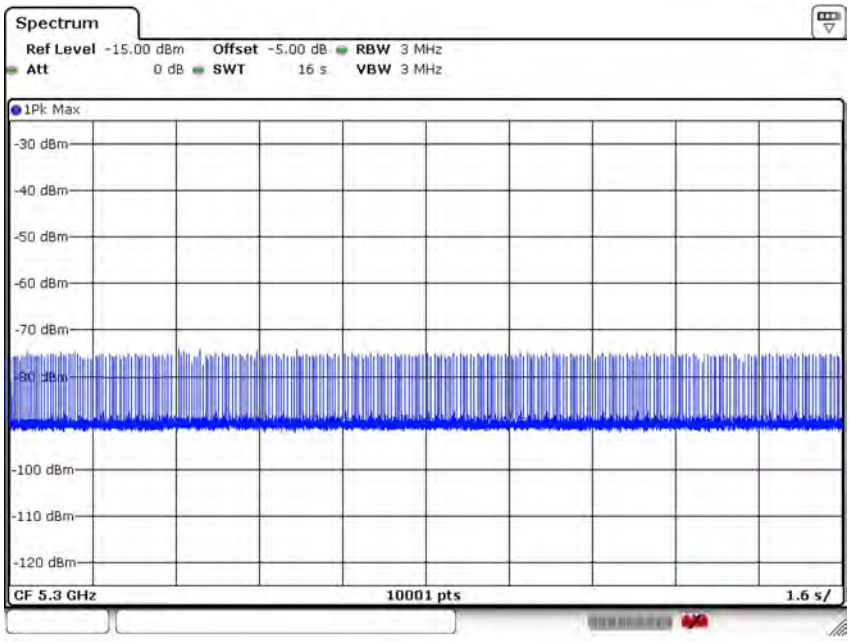
### 5250-5350MHz（802.11ac 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5300 MHz.

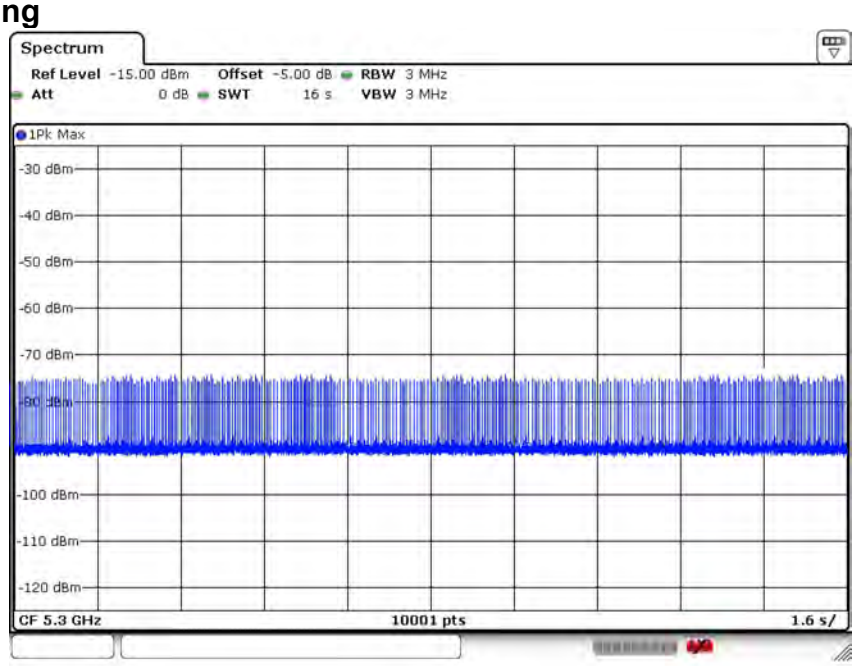
### RADAR WAVEFORM




### Traffic



## Channel Loading

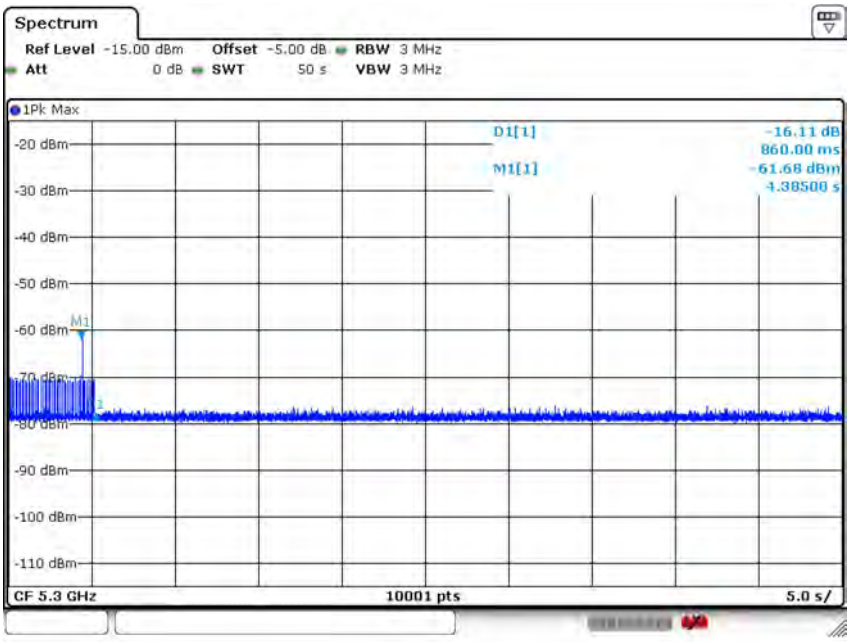



The level of traffic loading on the channel by the EUT is 14.37%

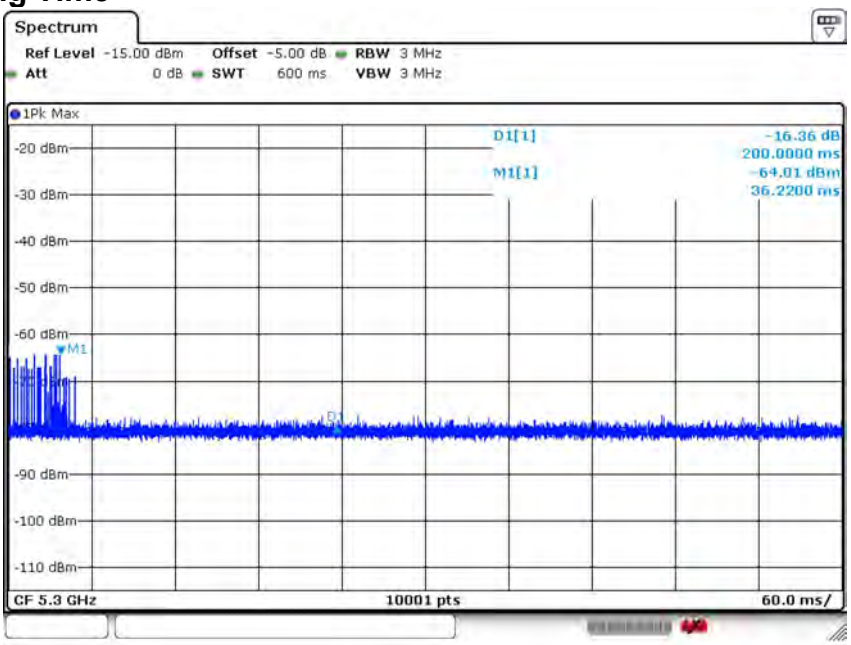
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.860 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 14 | 60 |

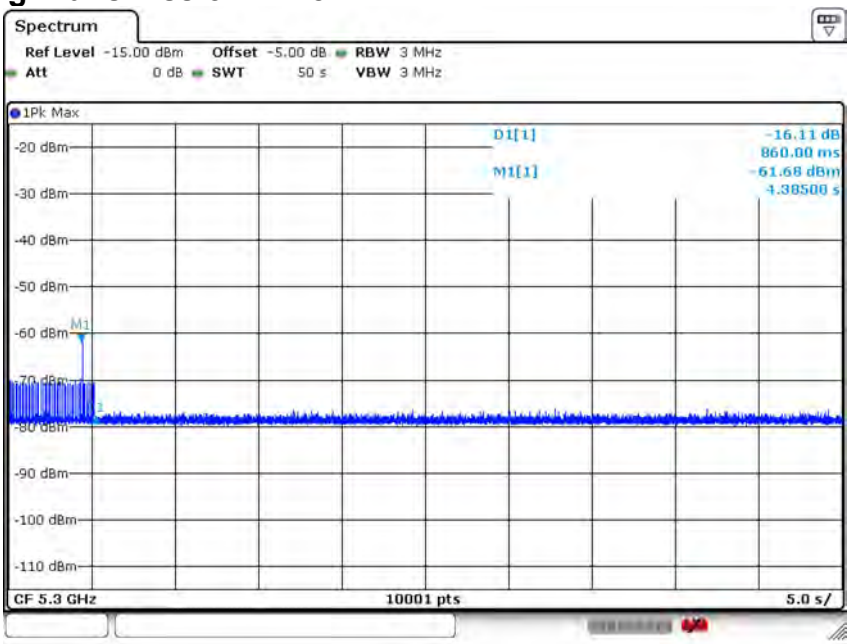
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

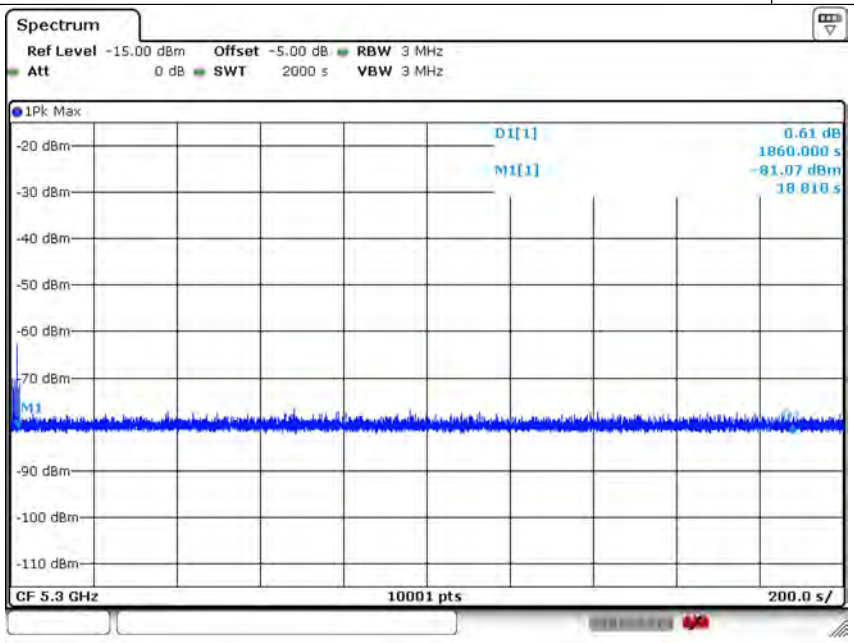



Note: T1=M1+200ms=4.585s, T2=T1+10s=14.585s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 14ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

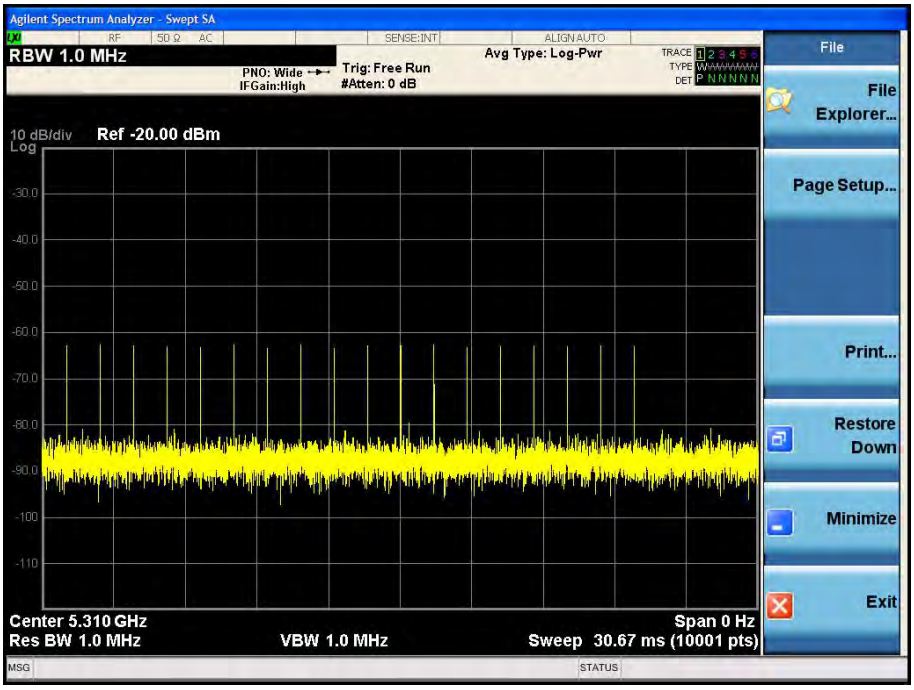


## CLIENT MODE RESULTS FOR 40MHz BANDWIDTH

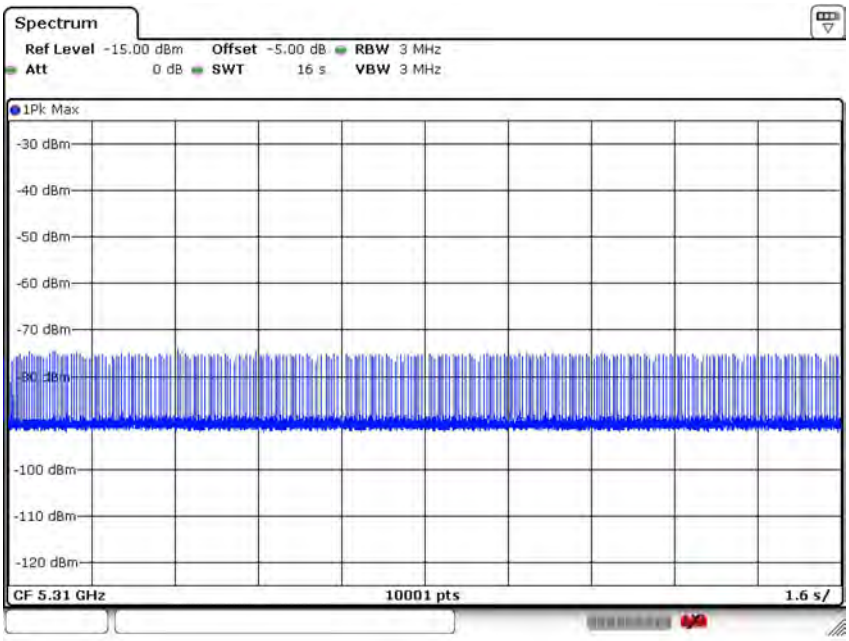
## 5250-5350MHz（802.11ac 40MHz）

Client devices with 40 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5310 MHz.

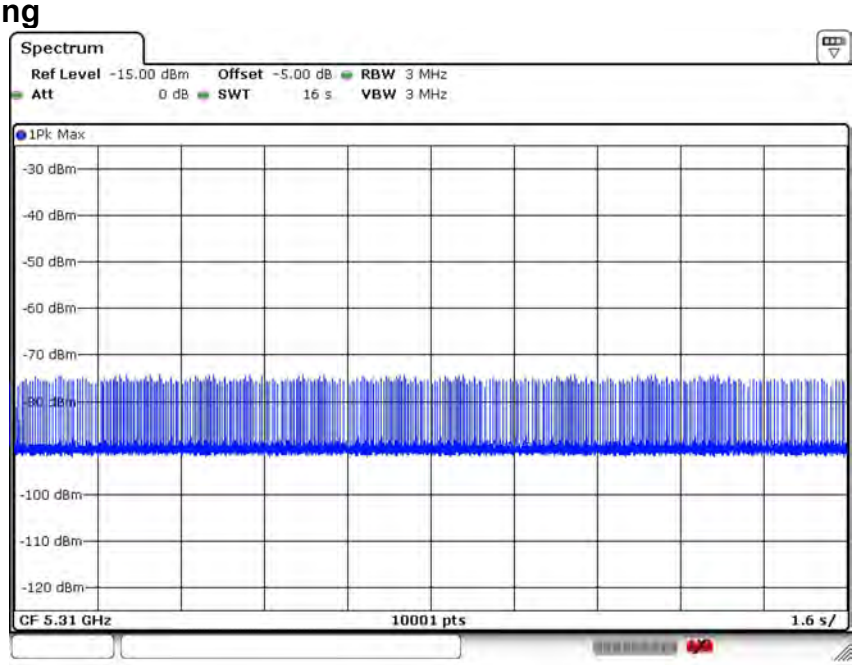
## RADAR WAVEFORM




### Traffic



## Channel Loading

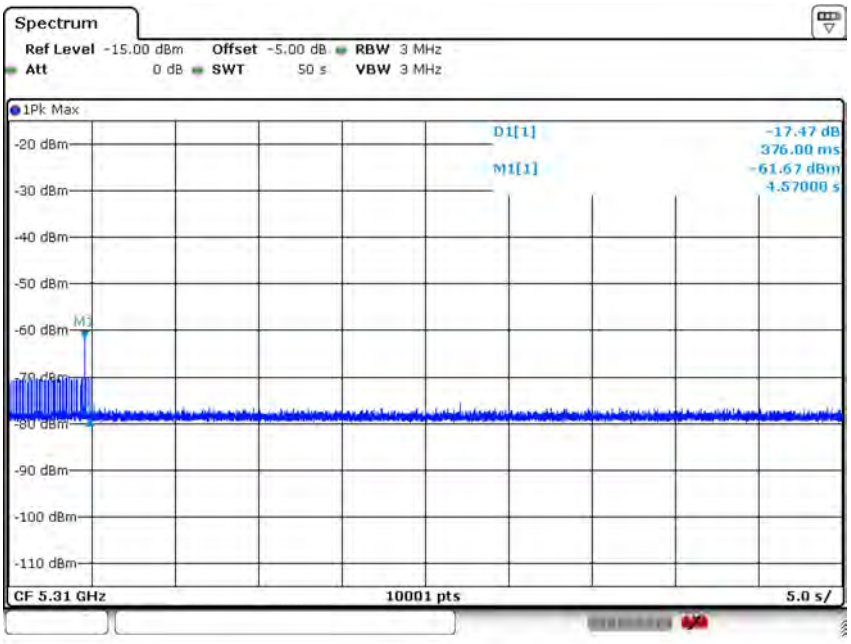



The level of traffic loading on the channel by the EUT is 15.36%

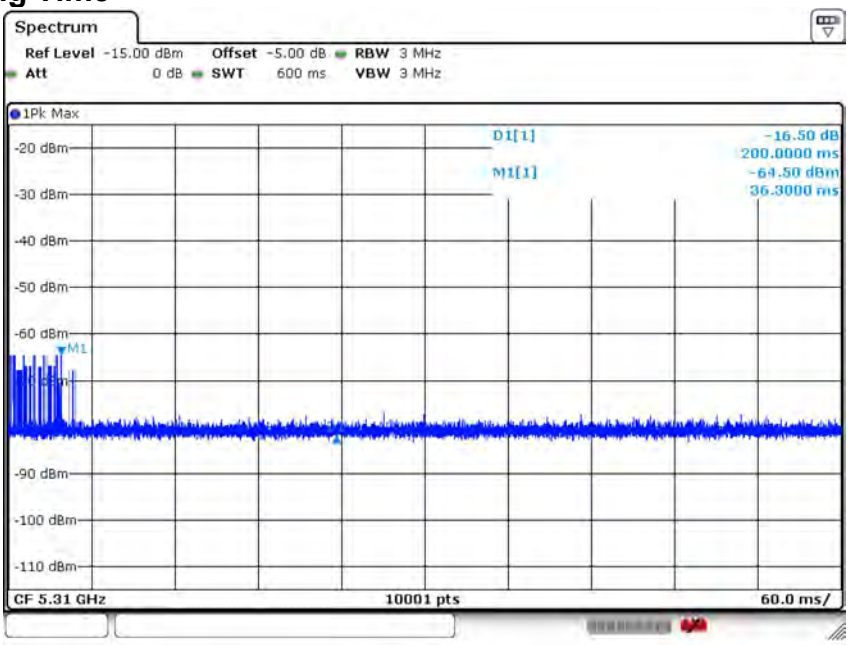
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.376 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 13 | 60 |

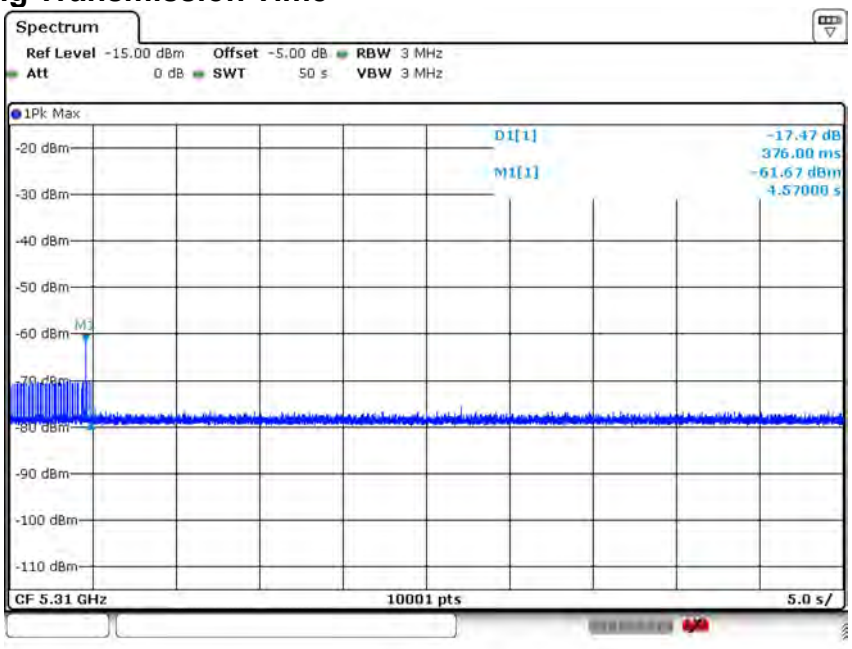
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

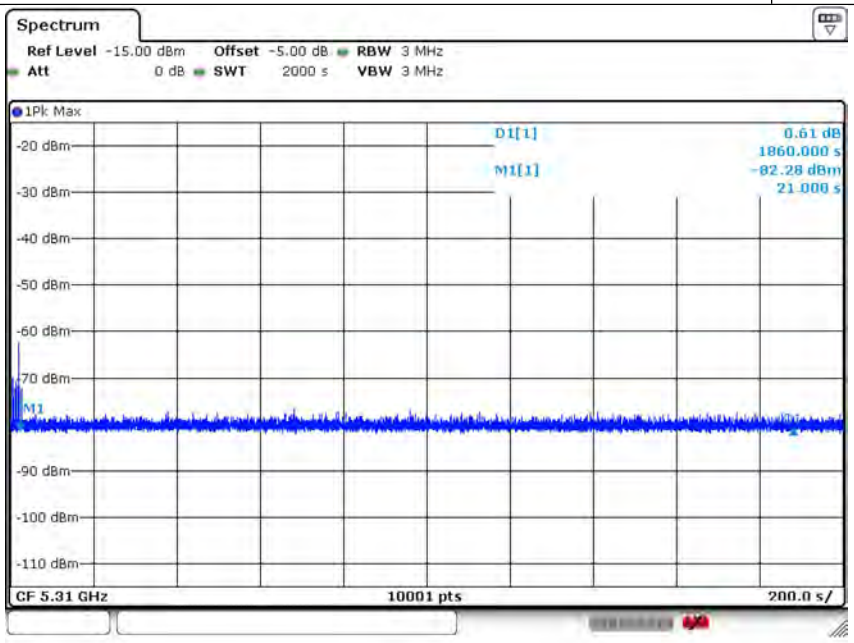



Note: T1=M1+200ms=4.770s, T2=T1+10s=14.770s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 13ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

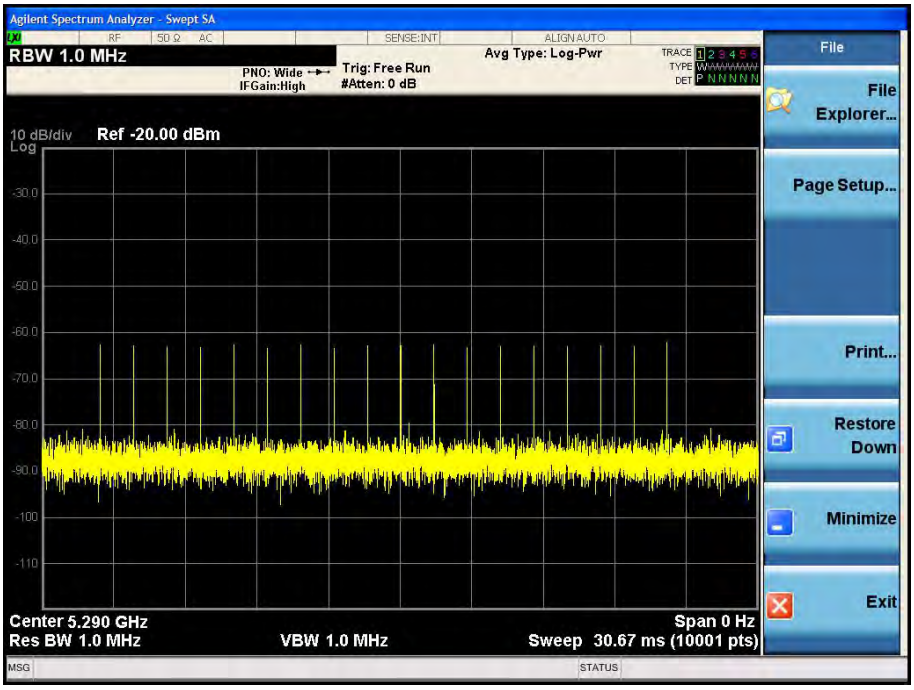


## CLIENT MODE RESULTS FOR 80MHz BANDWIDTH

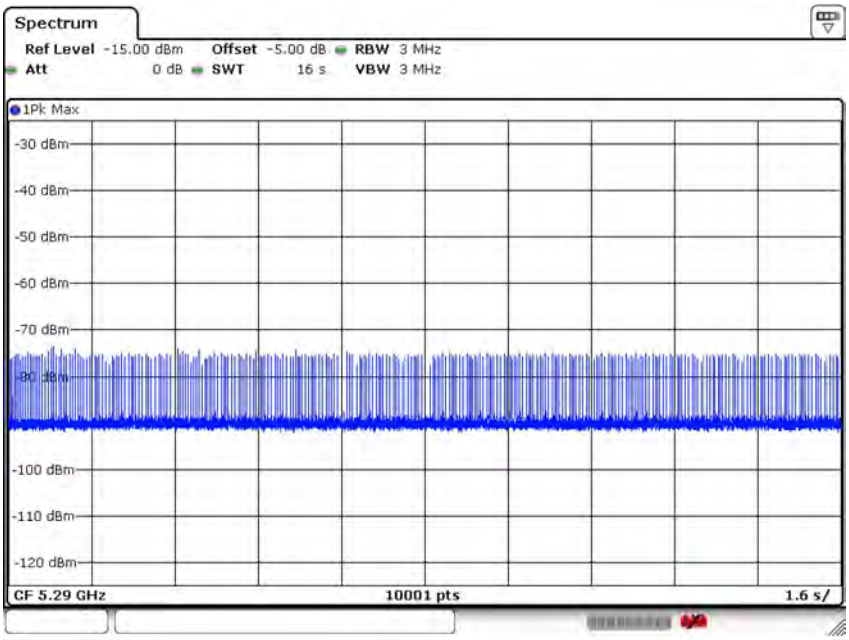
## 5250-5350MHz（802.11ac 80MHz）

Client devices with 80 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5290 MHz.

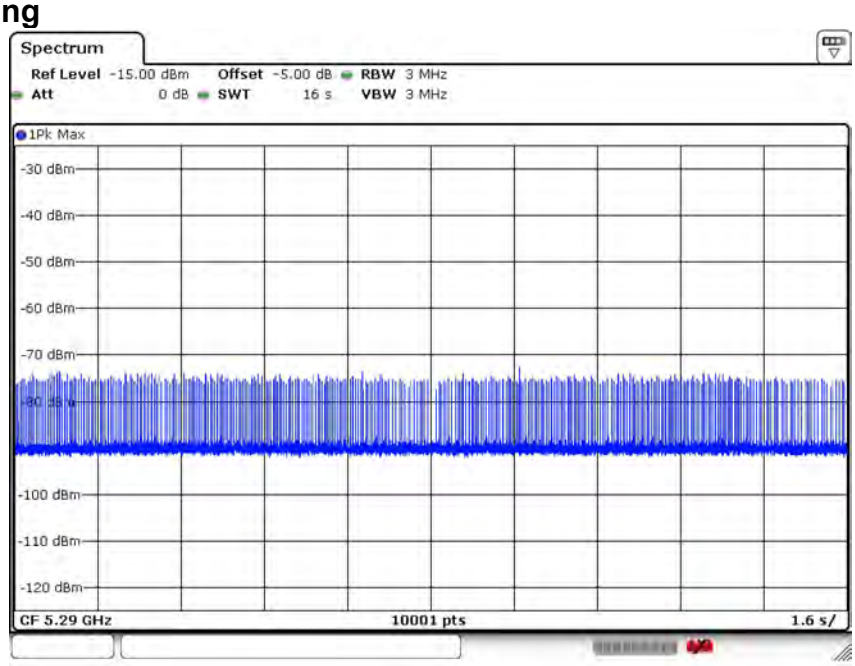
## RADAR WAVEFORM




## Traffic



## Channel Loading

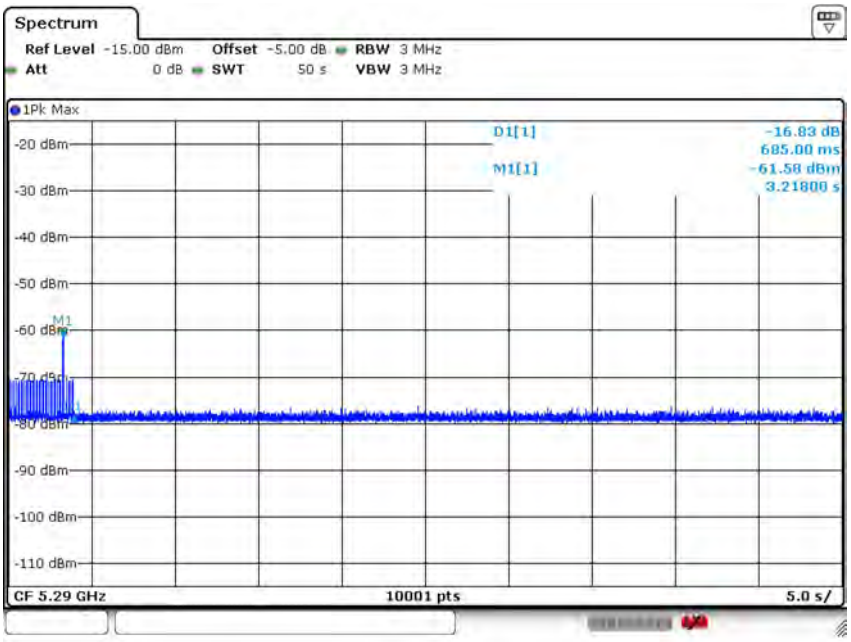



The level of traffic loading on the channel by the EUT is 14.73%

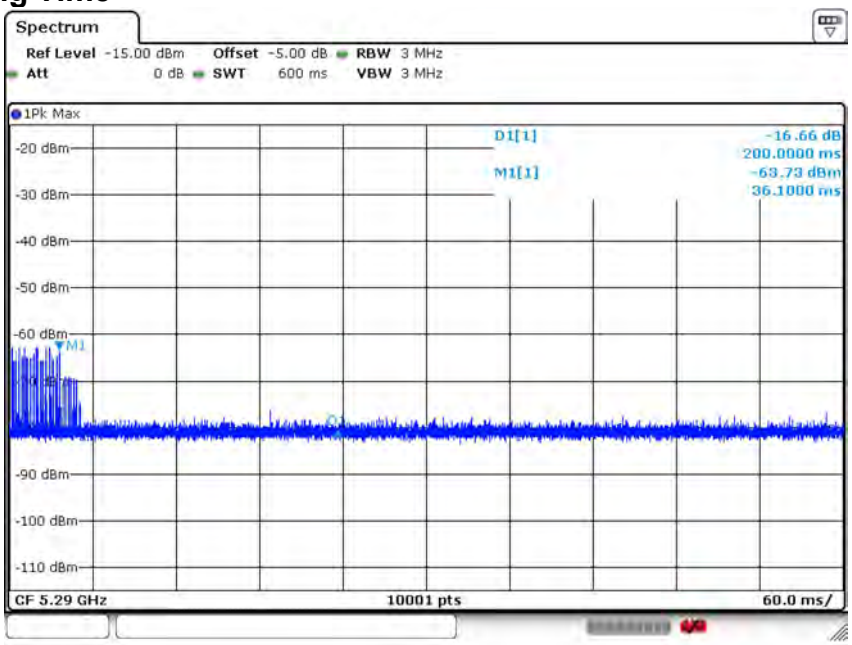
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.685 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 16 | 60 |

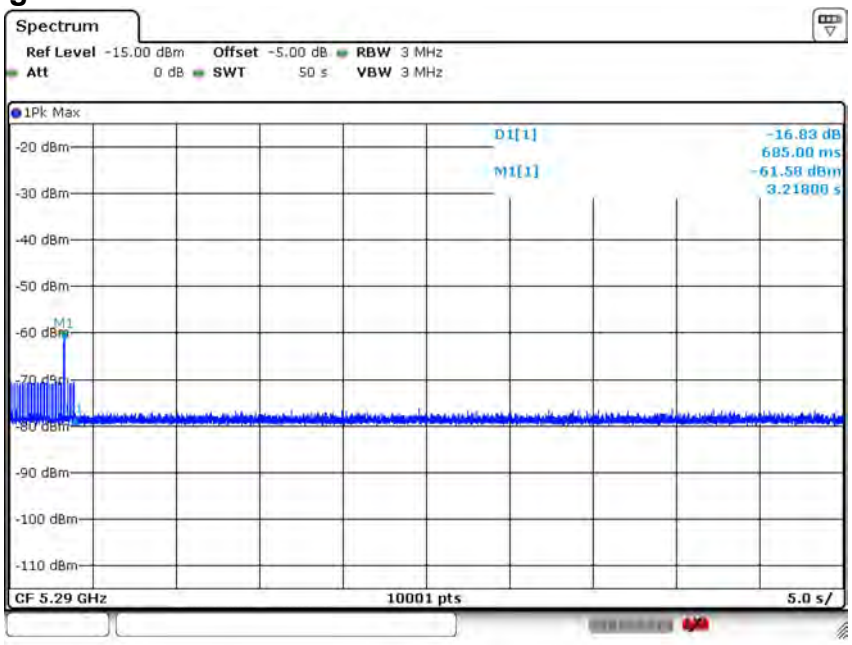
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

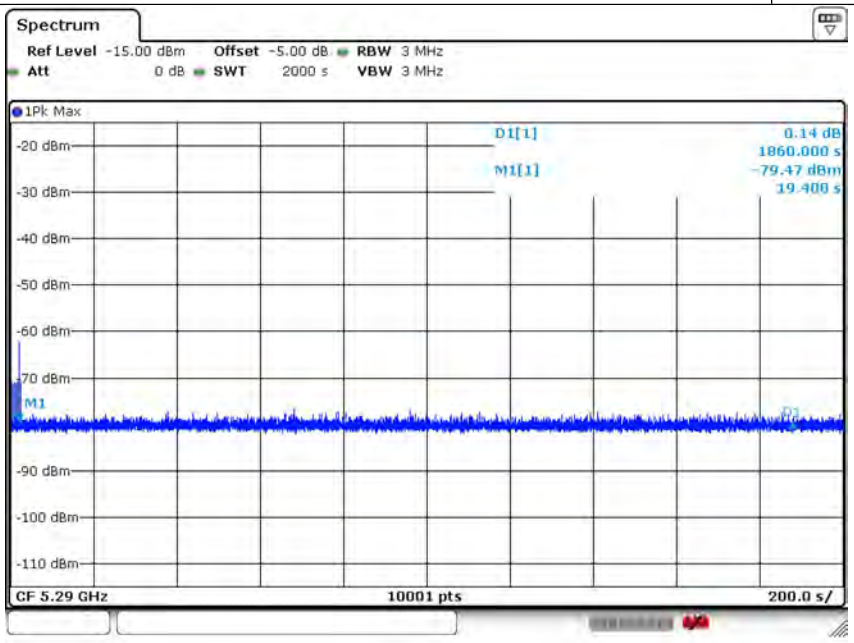



Note: T1=M1+200ms=3.518s, T2=T1+10s=13.518s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 16ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

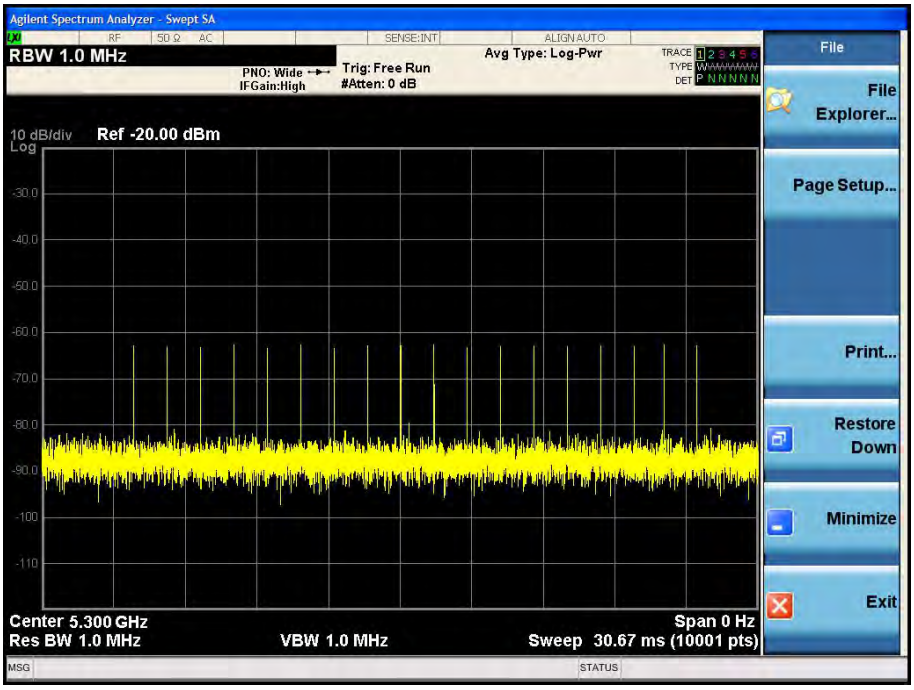


## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

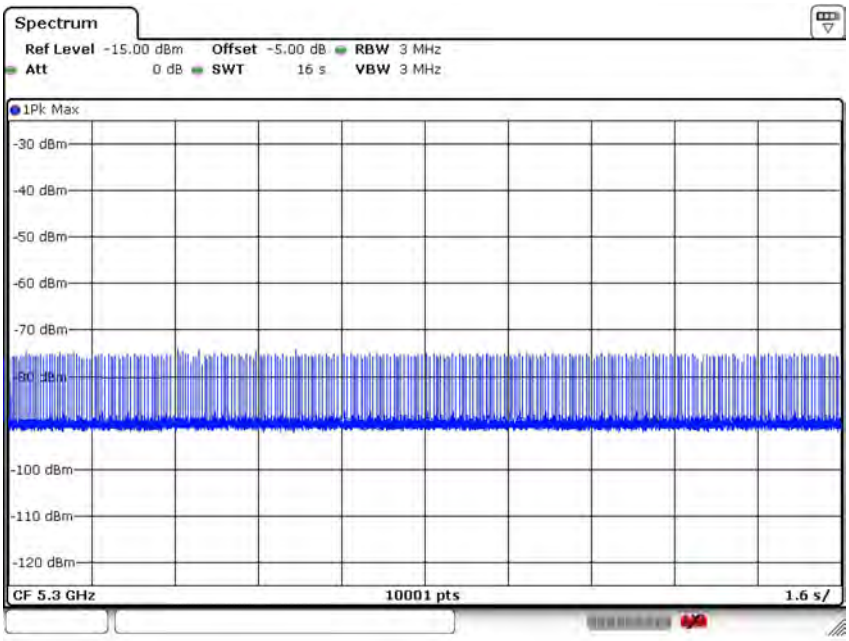
## 5250-5350MHz（802.11n 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5300 MHz.

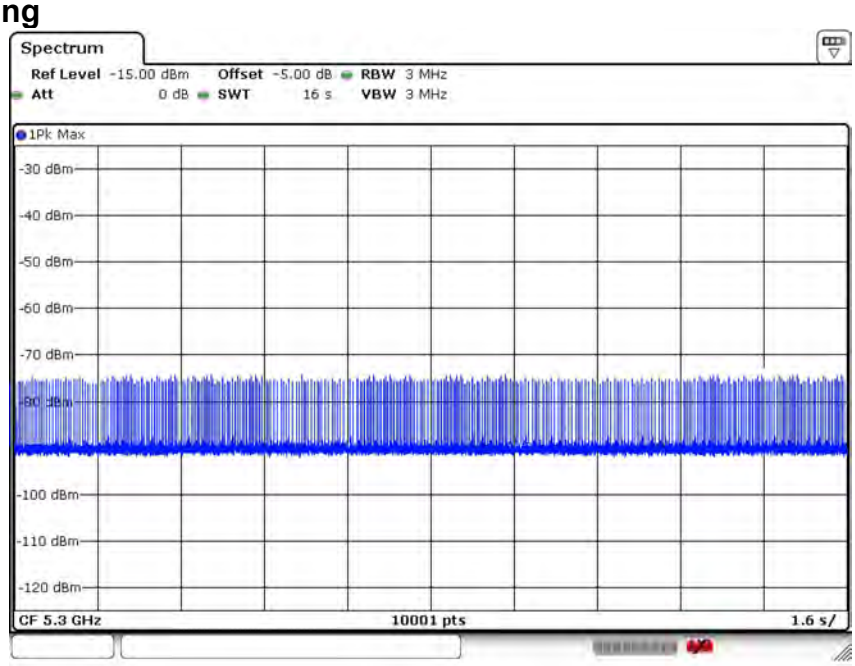
## RADAR WAVEFORM




## Traffic



## Channel Loading

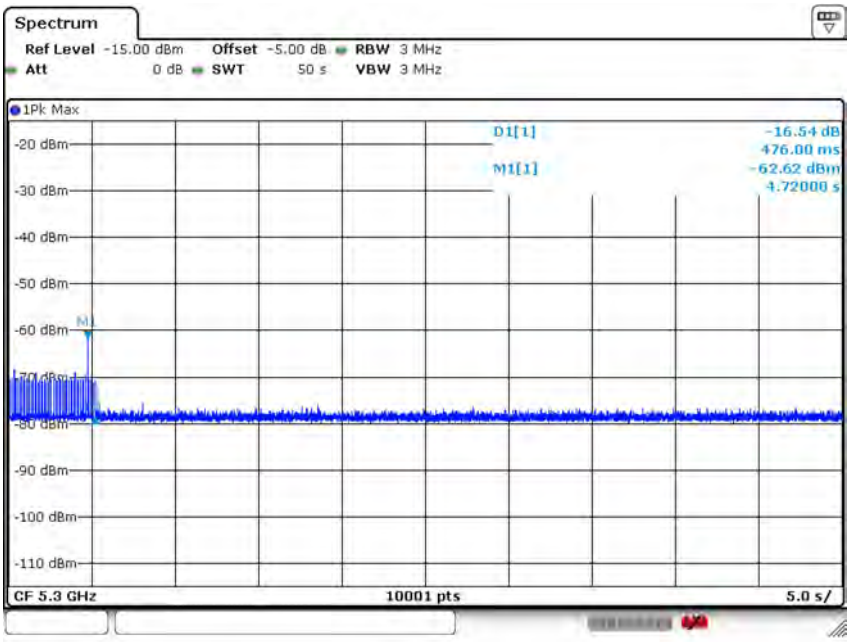



The level of traffic loading on the channel by the EUT is 14.37%

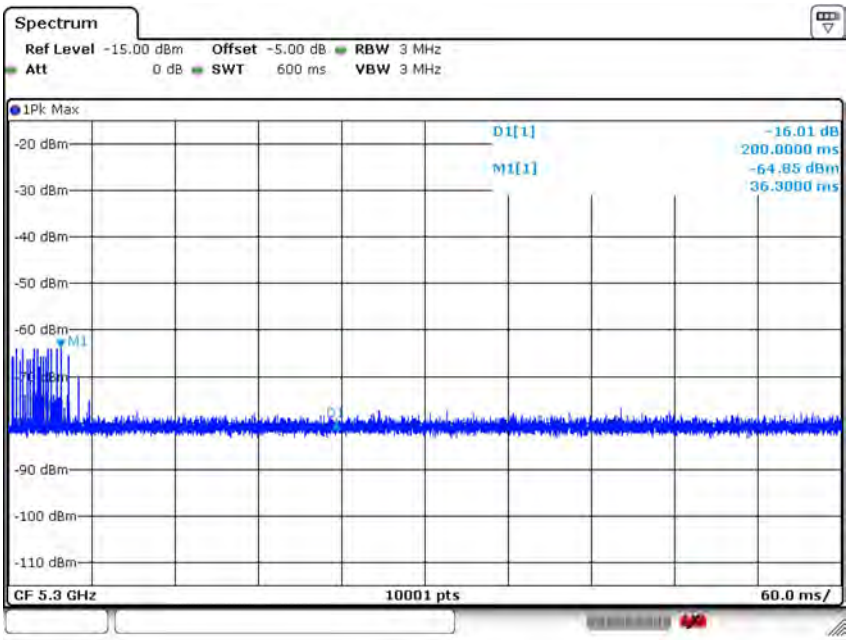
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.476 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 21 | 60 |

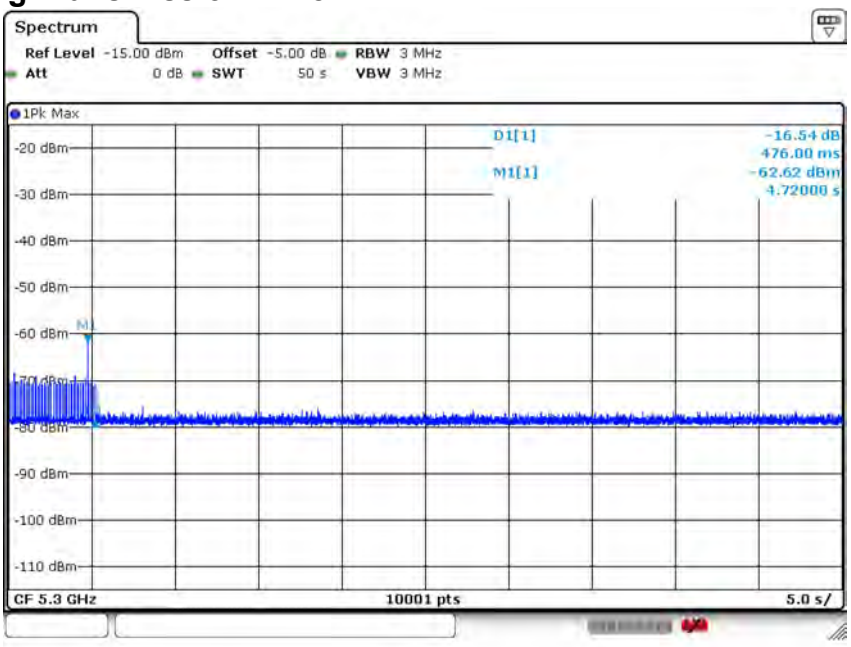
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

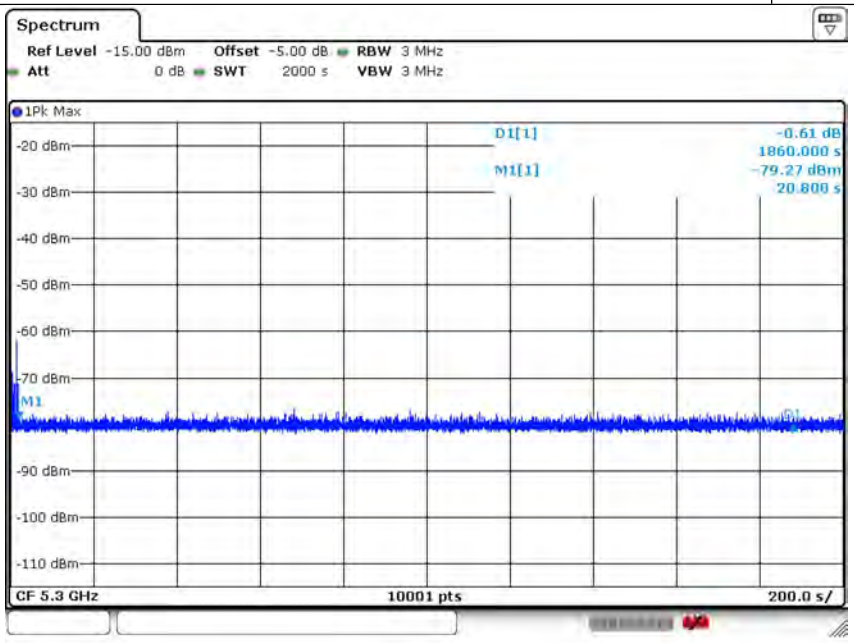



Note: T1=M1+200ms=4.920s, T2=T1+10s=14.920s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 21ms

**Non-occupancy Period**

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

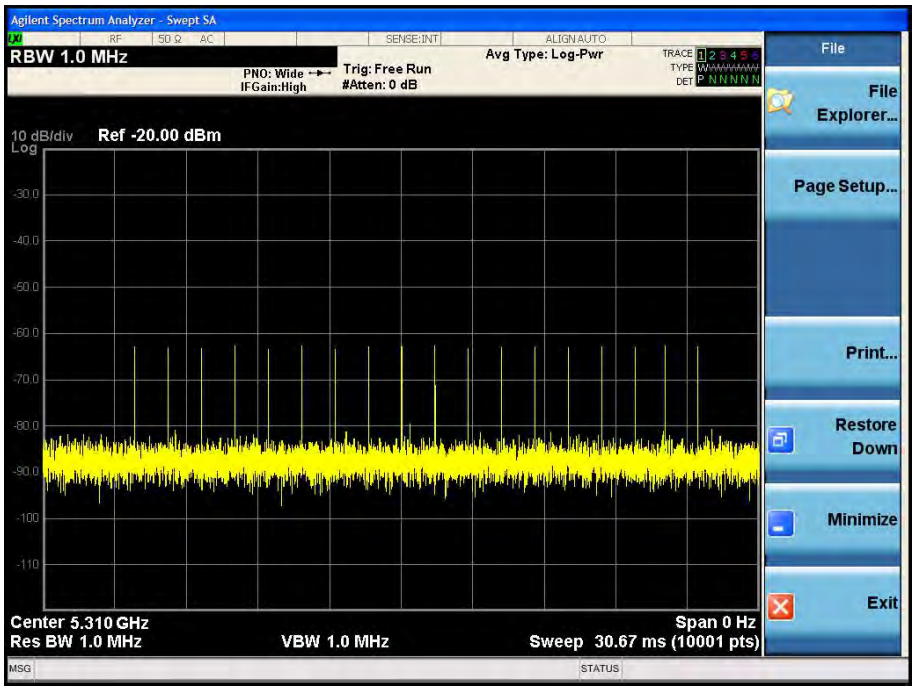


## CLIENT MODE RESULTS FOR 40MHz BANDWIDTH

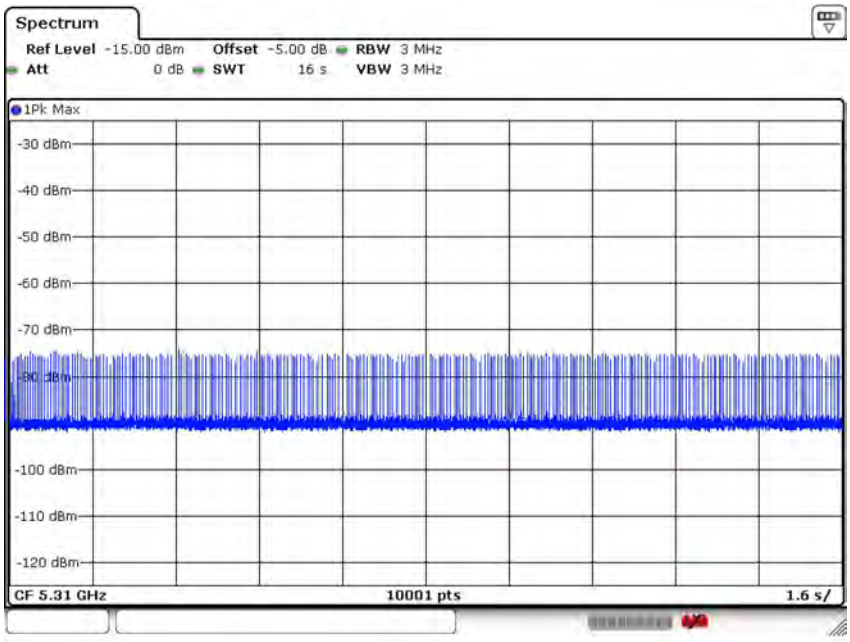
## 5250-5350MHz（802.11n 40MHz）

Client devices with 40 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5310 MHz.

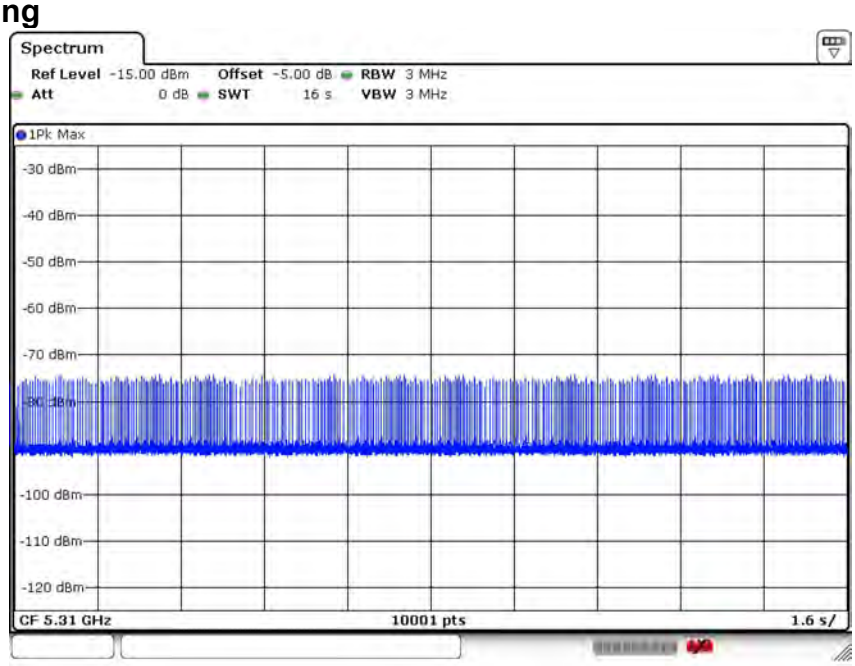
## RADAR WAVEFORM




## Traffic



## Channel Loading

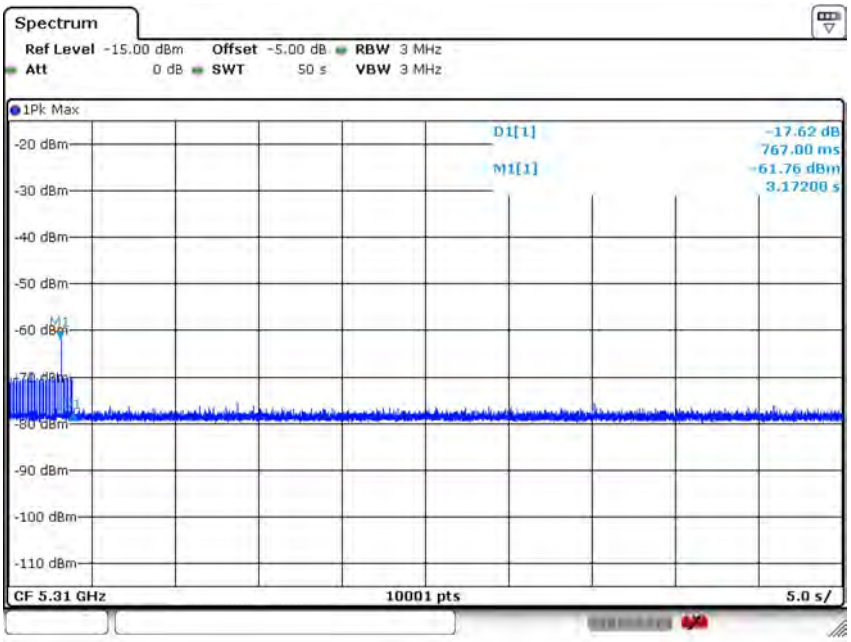



The level of traffic loading on the channel by the EUT is 15.52%

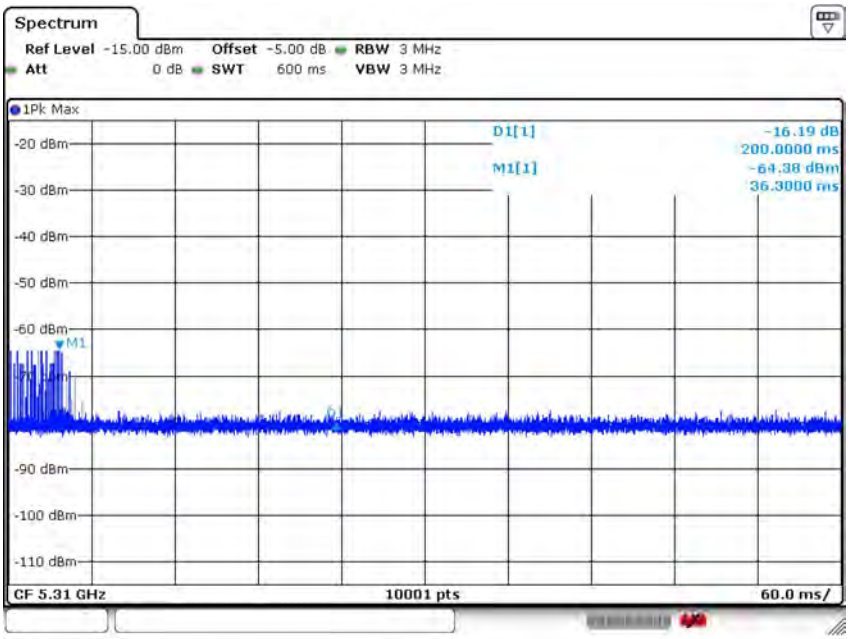
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.767 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 12 | 60 |

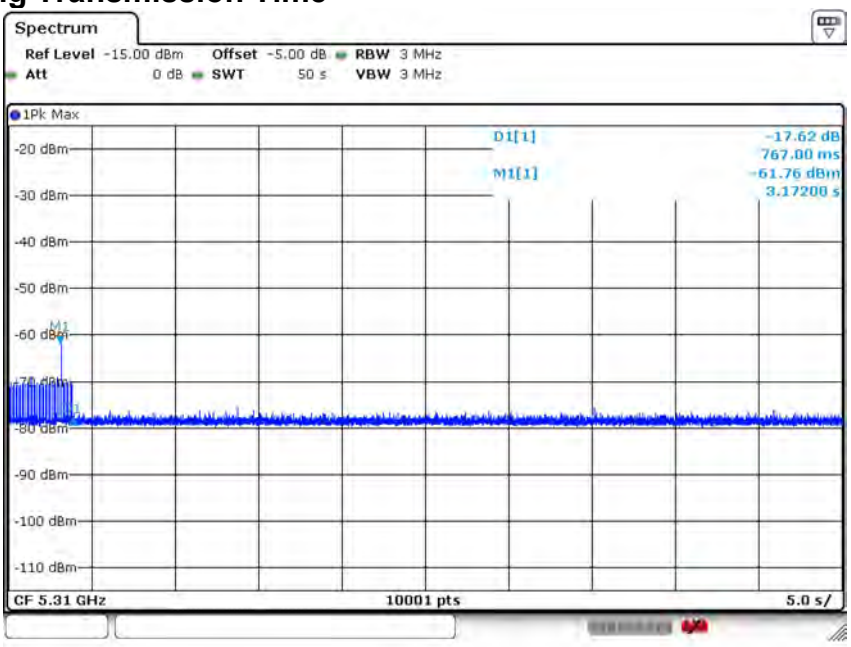
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

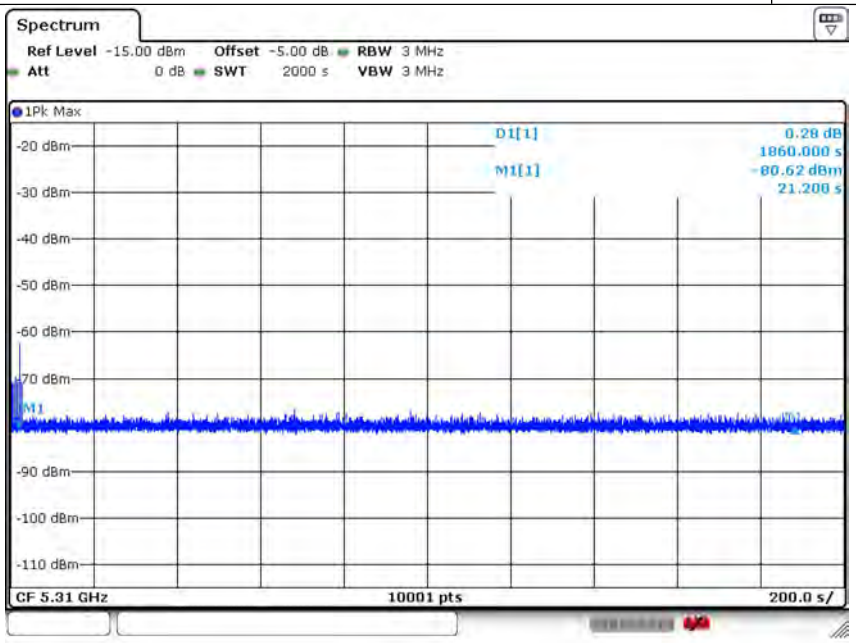



Note: T1=M1+200ms=3.372s, T2=T1+10s=13.372s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 12ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

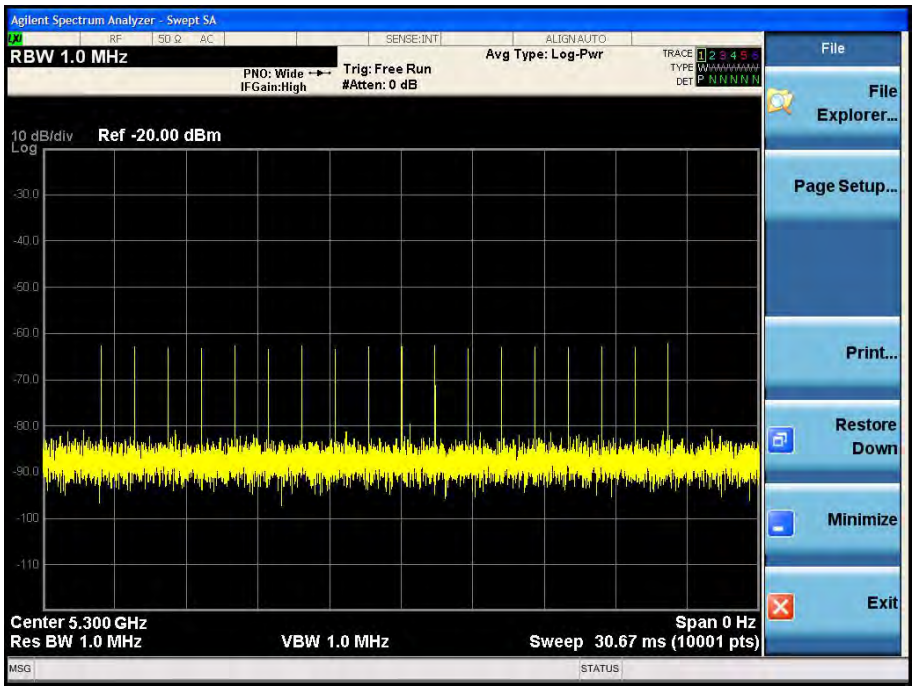


## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

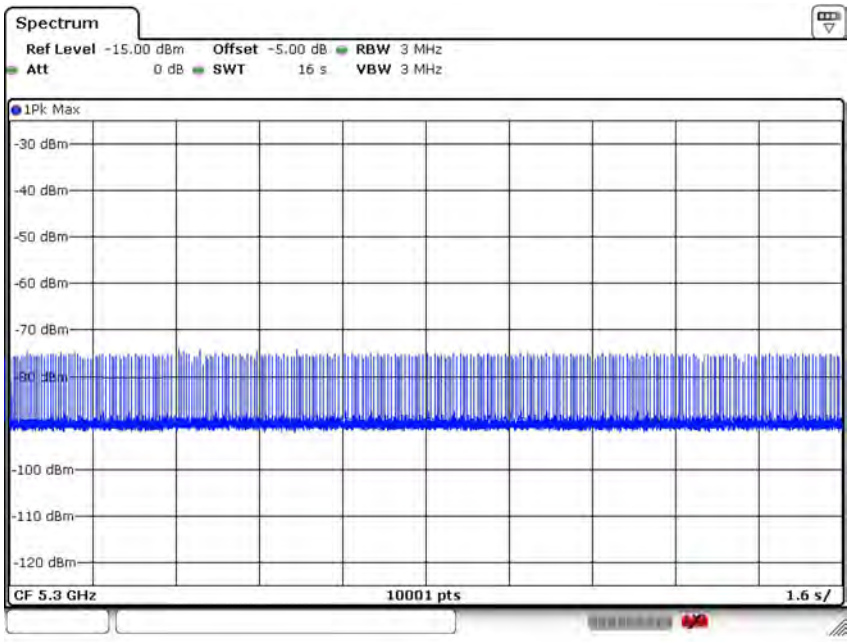
## 5250-5350MHz（802.11a 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5300 MHz.

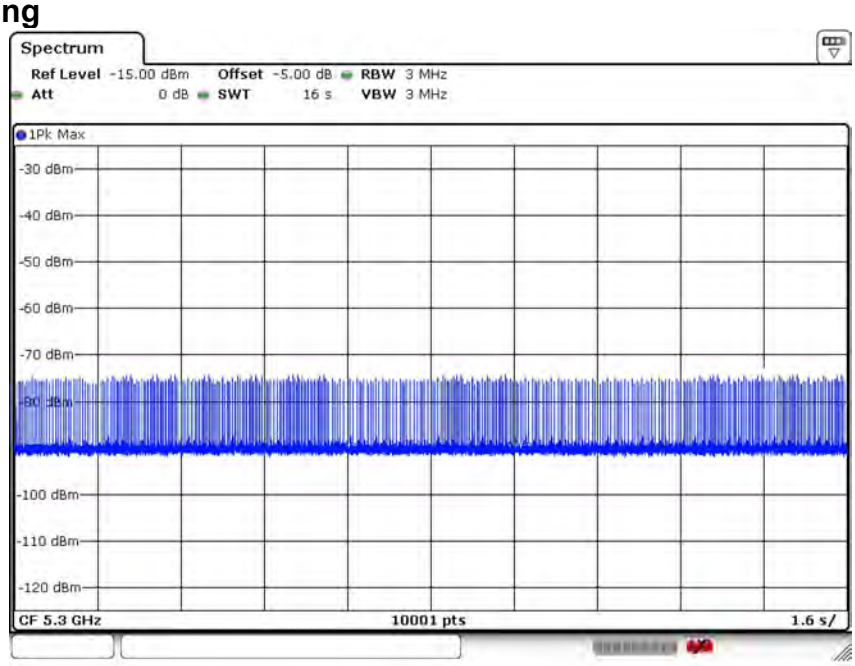
## RADAR WAVEFORM




### Traffic



## Channel Loading

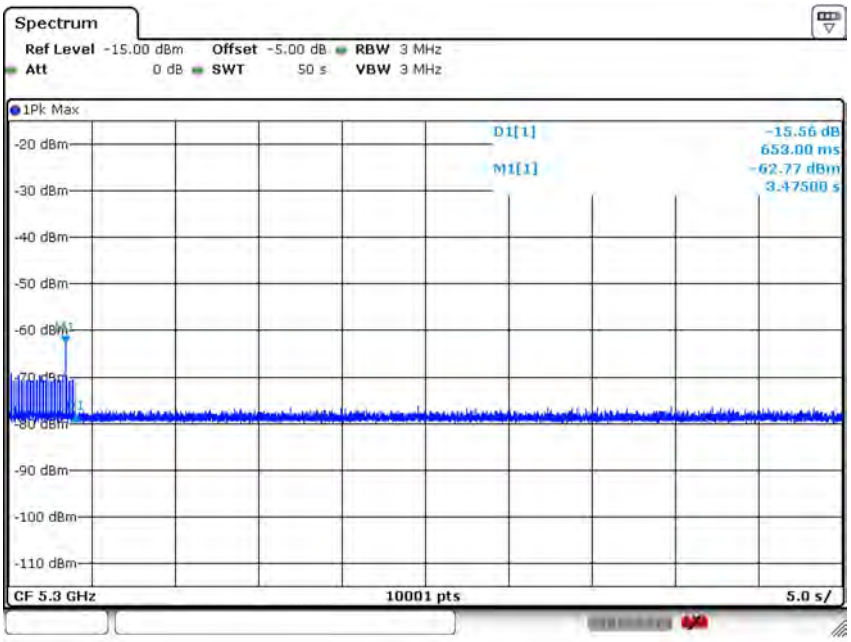



The level of traffic loading on the channel by the EUT is 15.47%

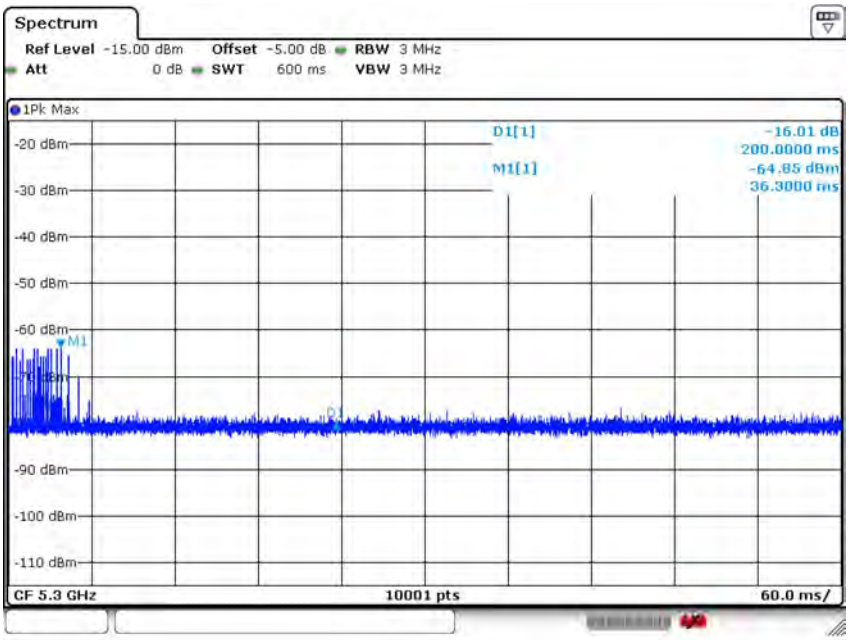
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.653 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 13 | 60 |

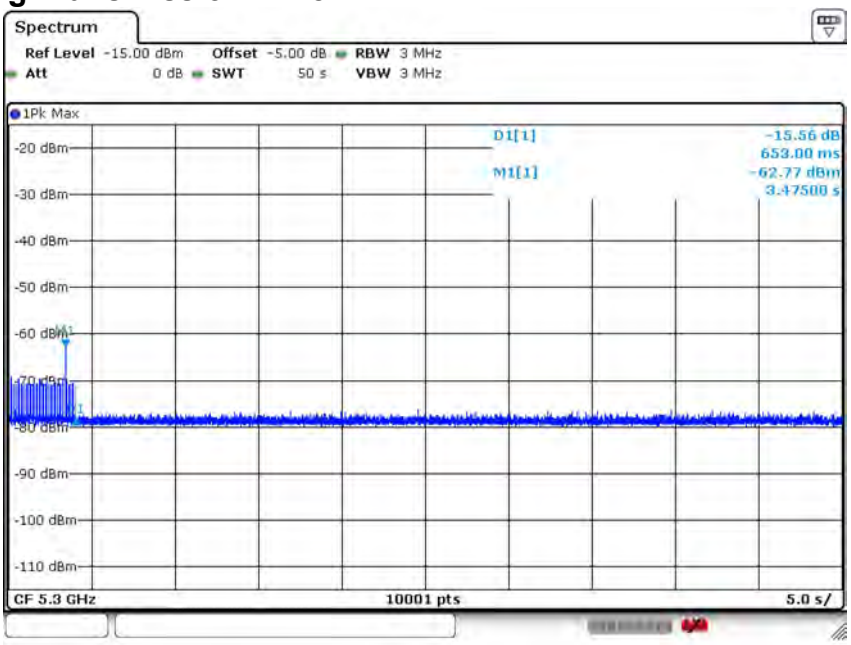
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

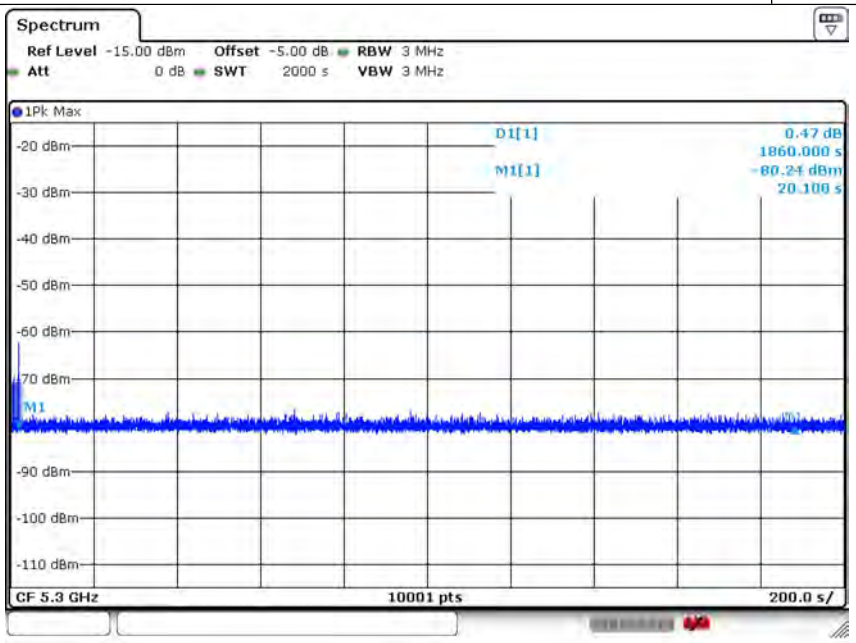



Note: T1=M1+200ms=3.853s, T2=T1+10s=13.853s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 13ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

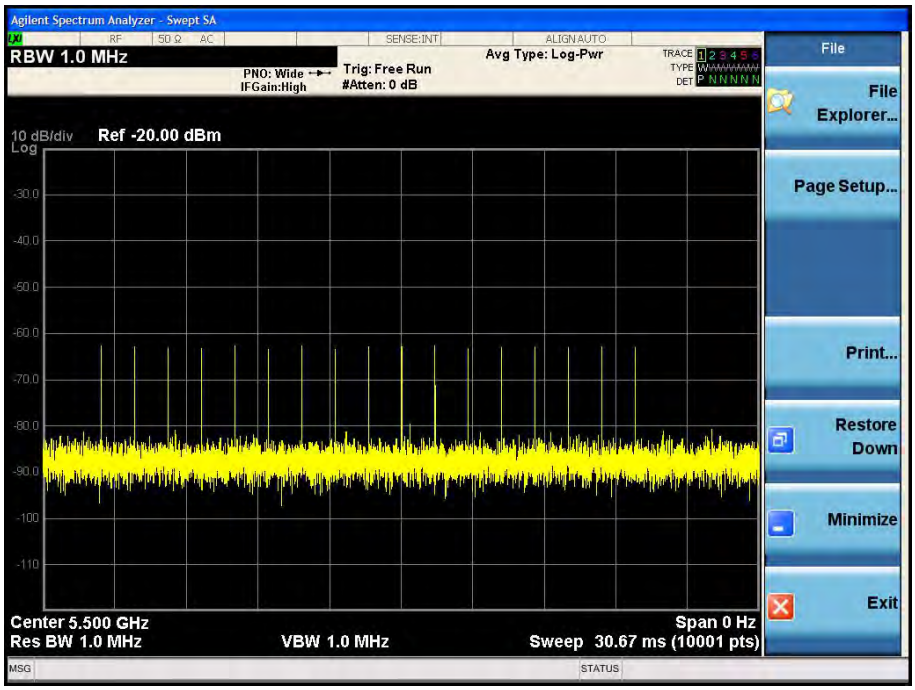


## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

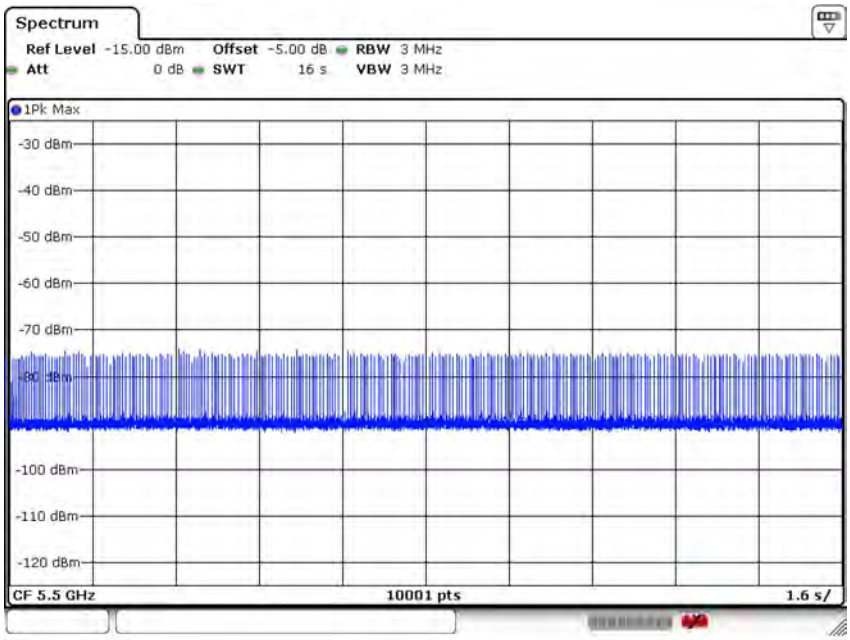
## 5470-5725MHz（802.11ac 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5500 MHz.

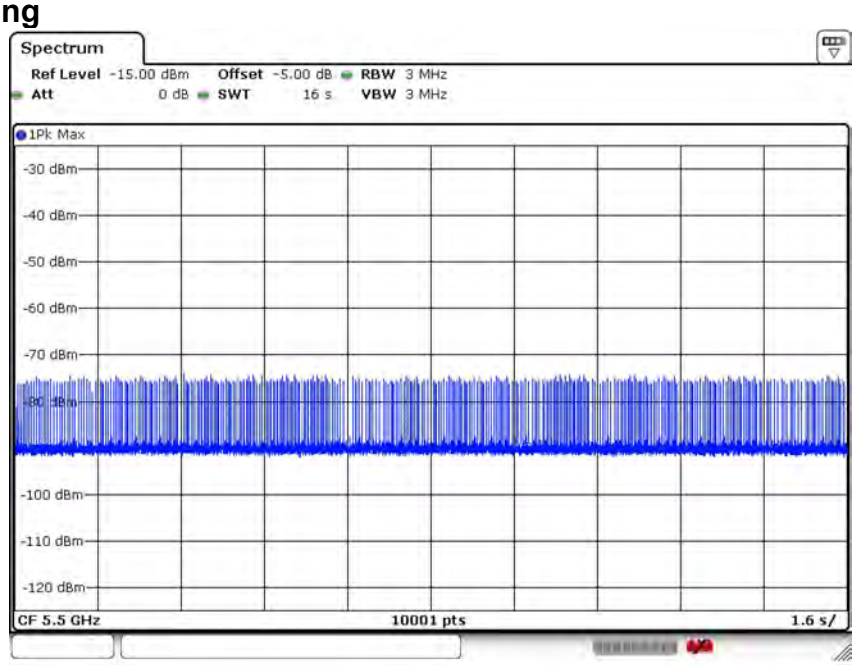
## RADAR WAVEFORM




### Traffic



## Channel Loading

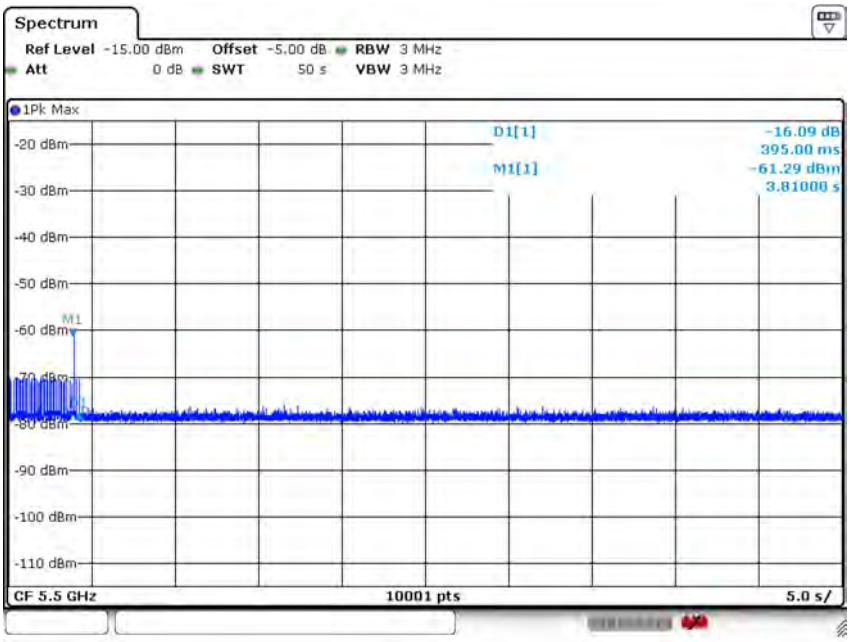



The level of traffic loading on the channel by the EUT is 15.62%

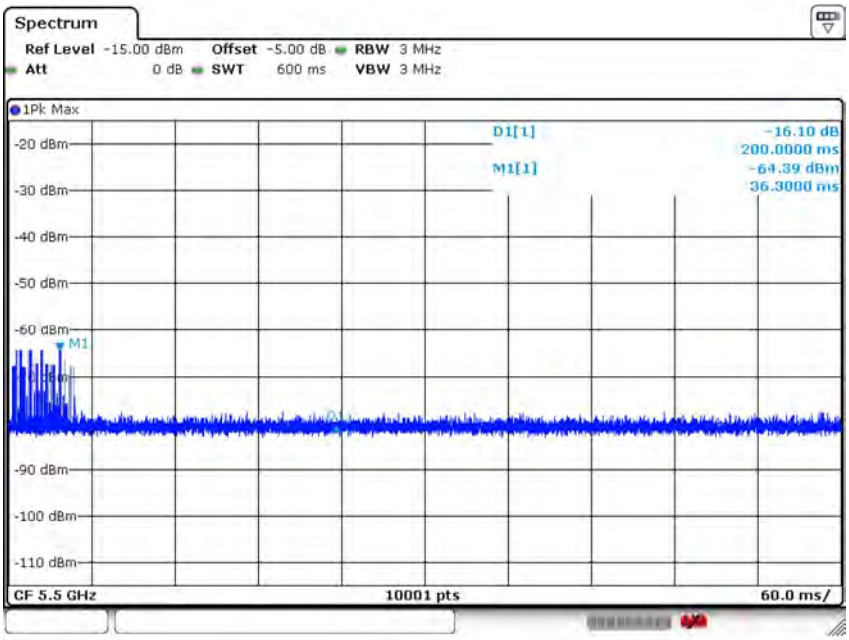
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.395 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 14 | 60 |

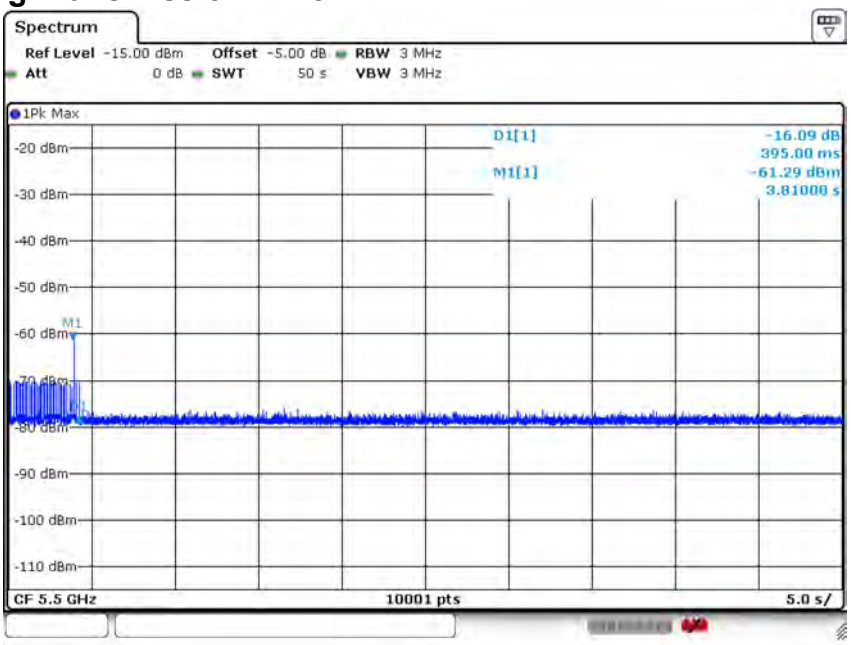
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

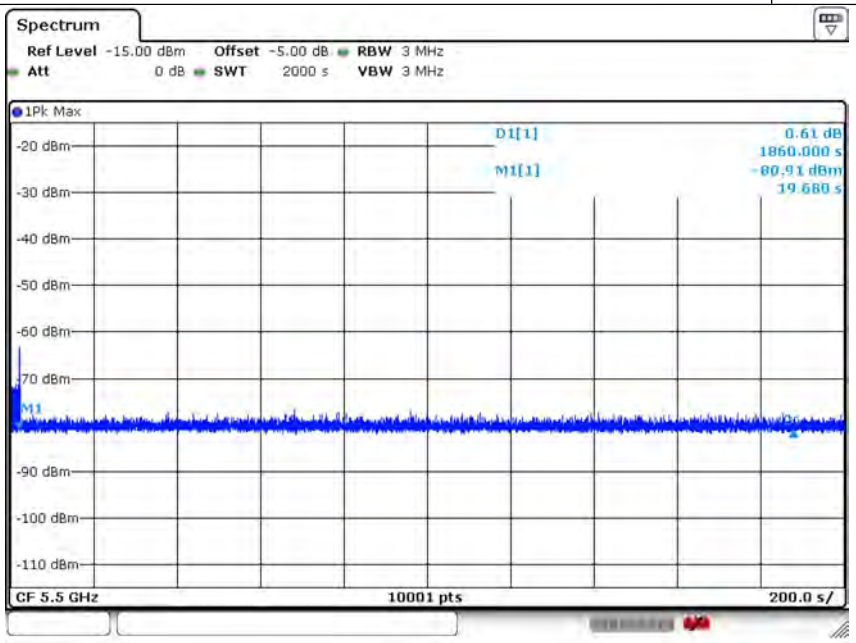



Note: T1=M1+200ms=4.010s, T2=T1+10s=14.010s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 14ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

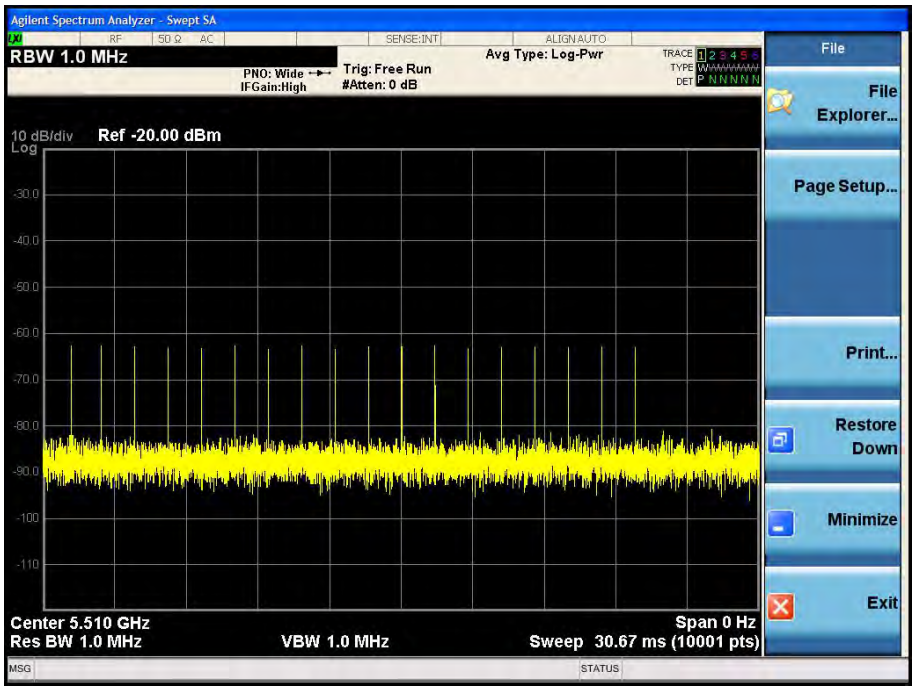


## CLIENT MODE RESULTS FOR 40MHz BANDWIDTH

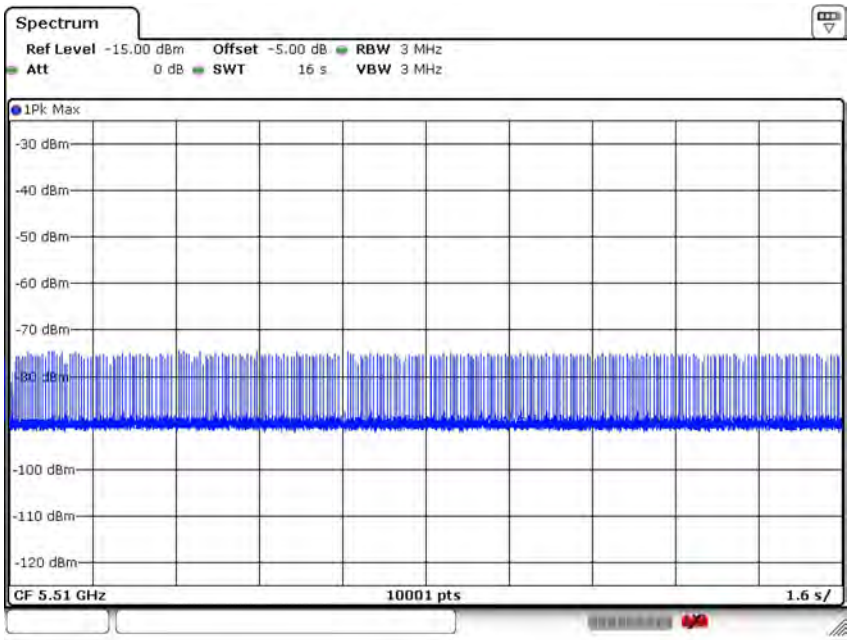
## 5470-5725MHz（802.11ac 40MHz）

Client devices with 40 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5510 MHz.

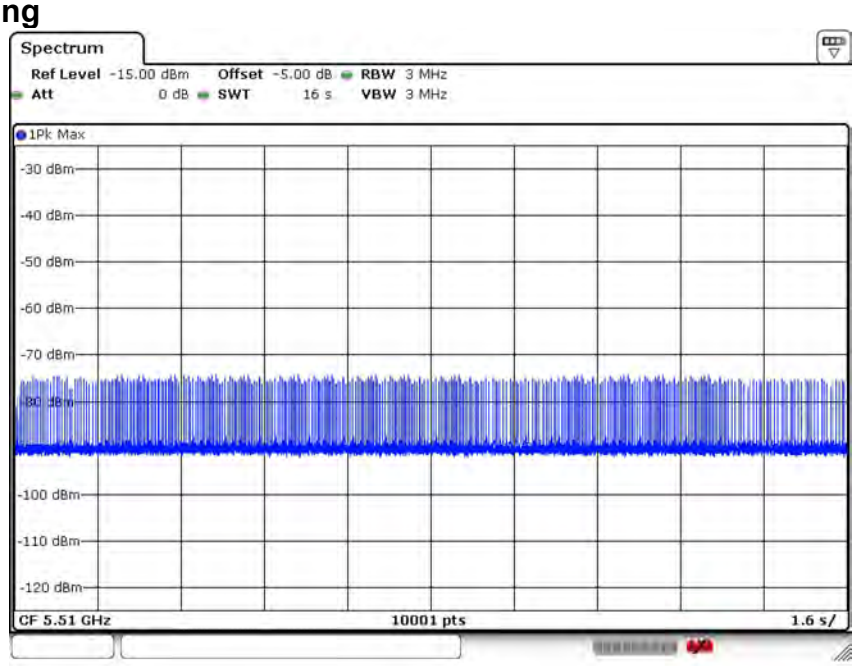
## RADAR WAVEFORM




## Traffic



## Channel Loading

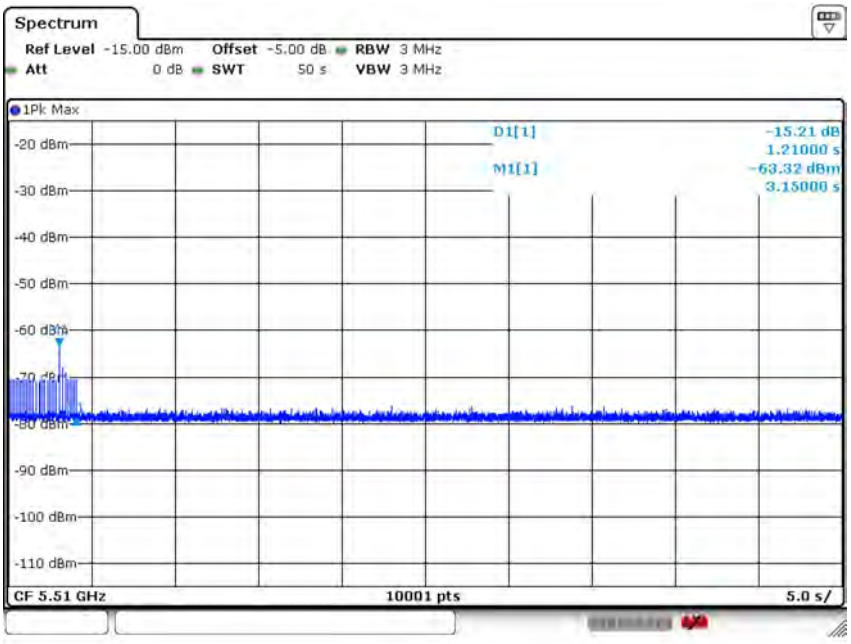



The level of traffic loading on the channel by the EUT is 15.28%

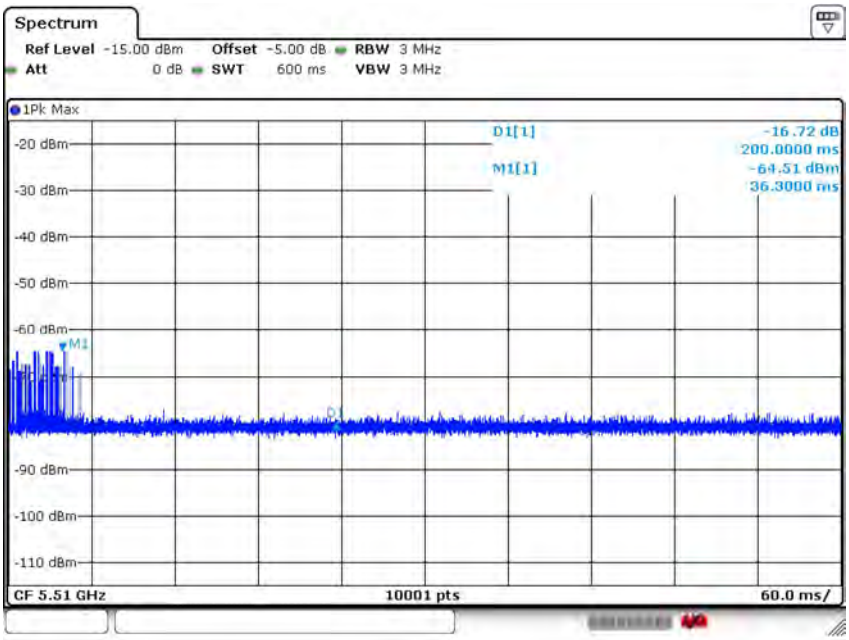
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 1.210 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 16 | 60 |

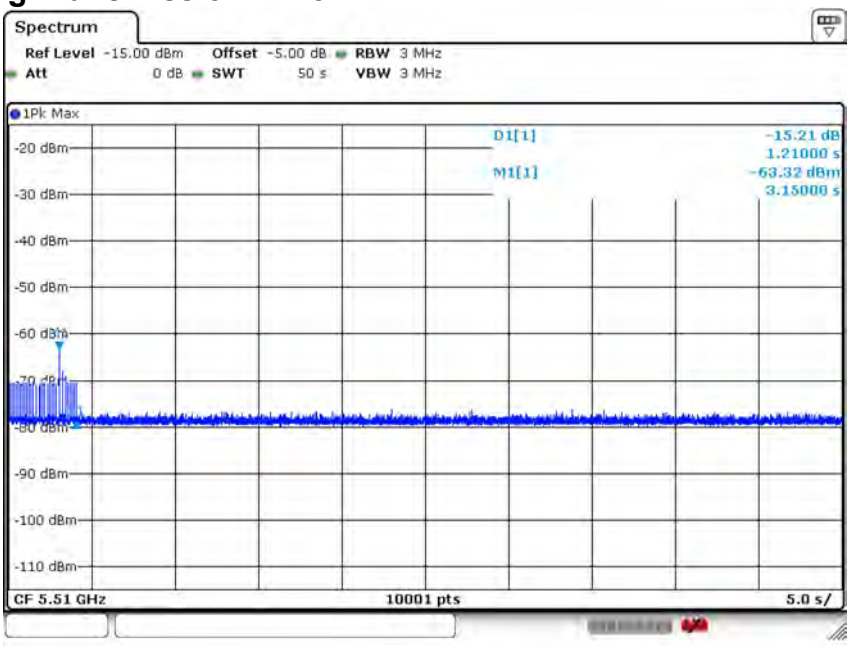
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

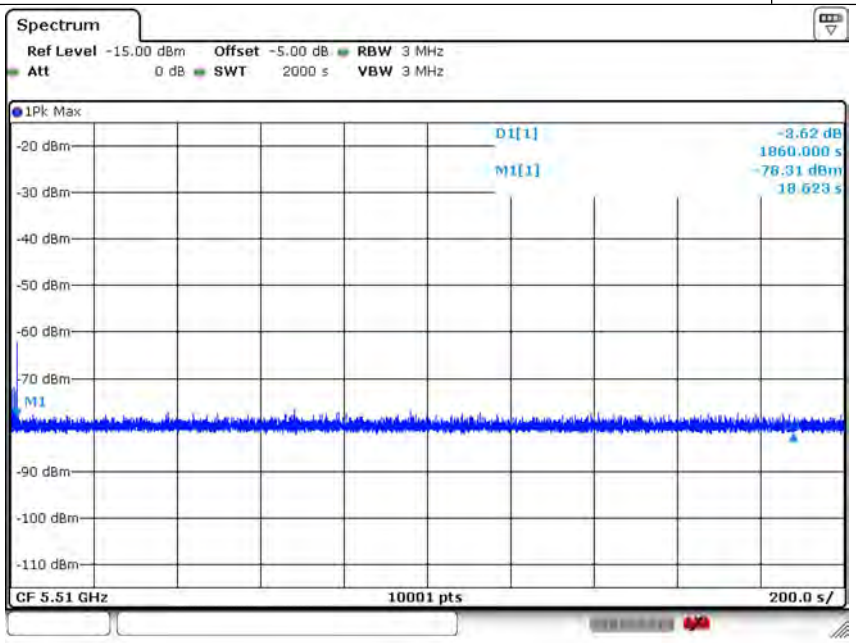



Note: T1=M1+200ms=3.350s, T2=T1+10s=13.350s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 16ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

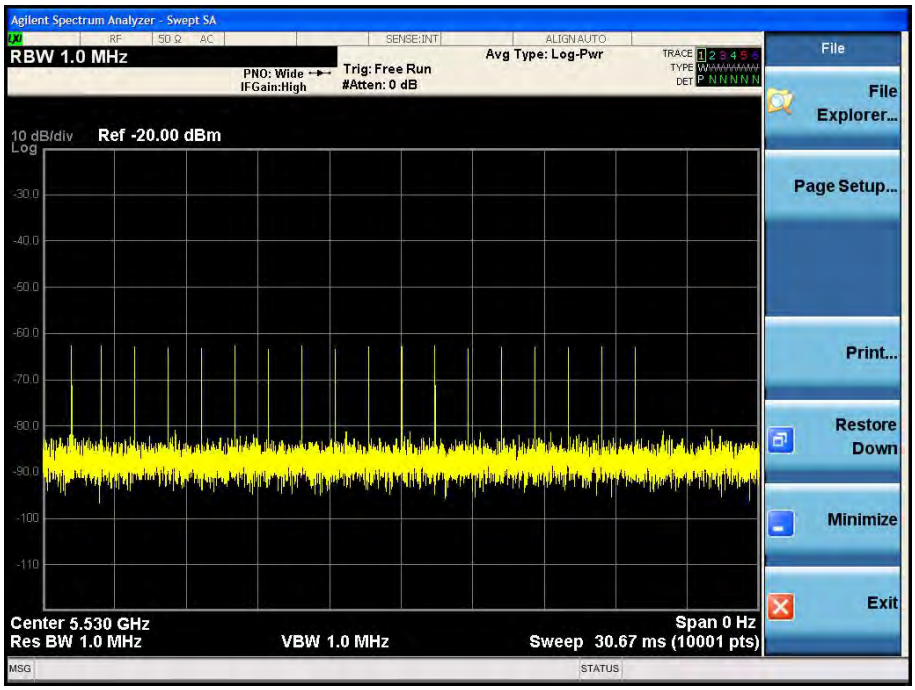


## CLIENT MODE RESULTS FOR 80MHz BANDWIDTH

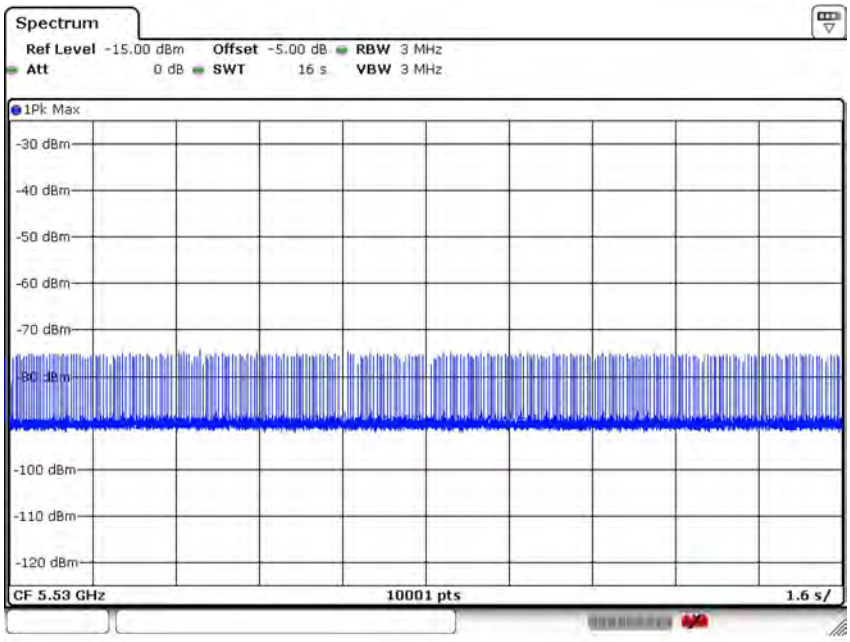
## 5470-5725MHz（802.11ac 80MHz）

Client devices with 80 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5530 MHz.

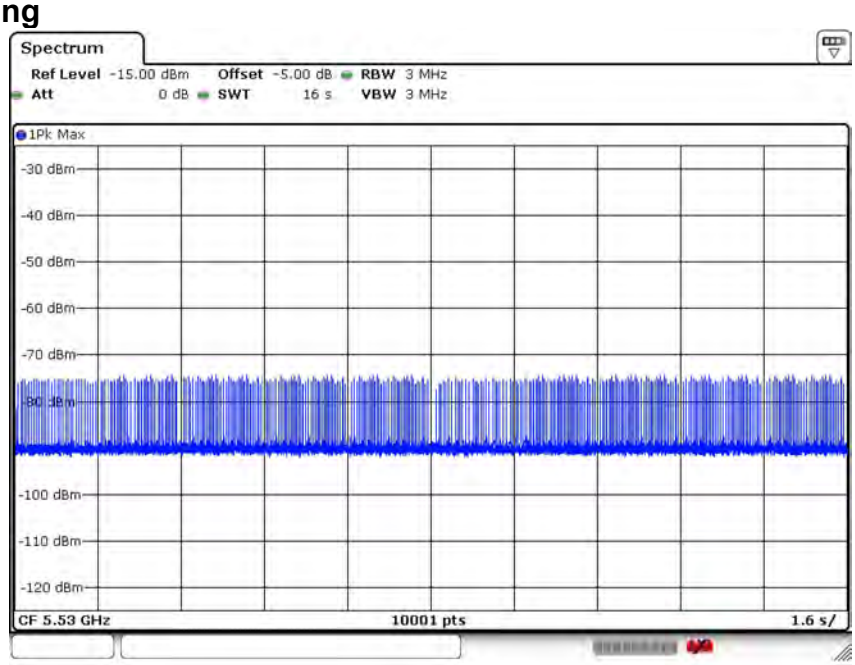
## RADAR WAVEFORM




## Traffic



## Channel Loading

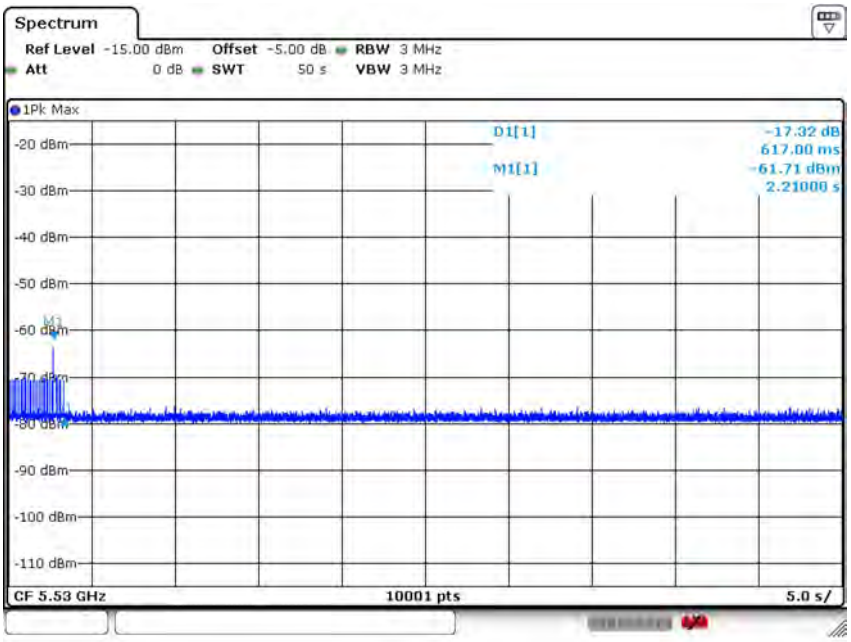



The level of traffic loading on the channel by the EUT is 15.69%

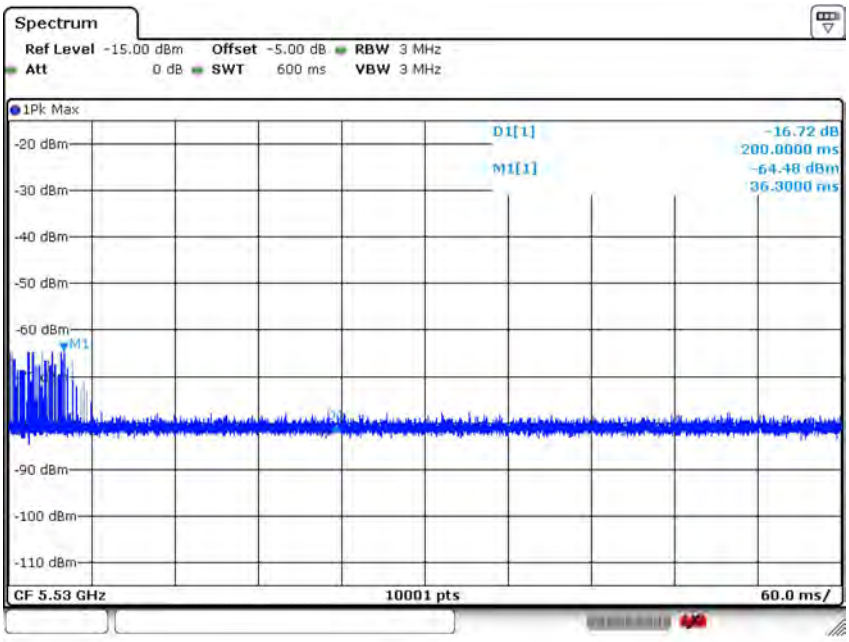
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.617 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 11 | 60 |

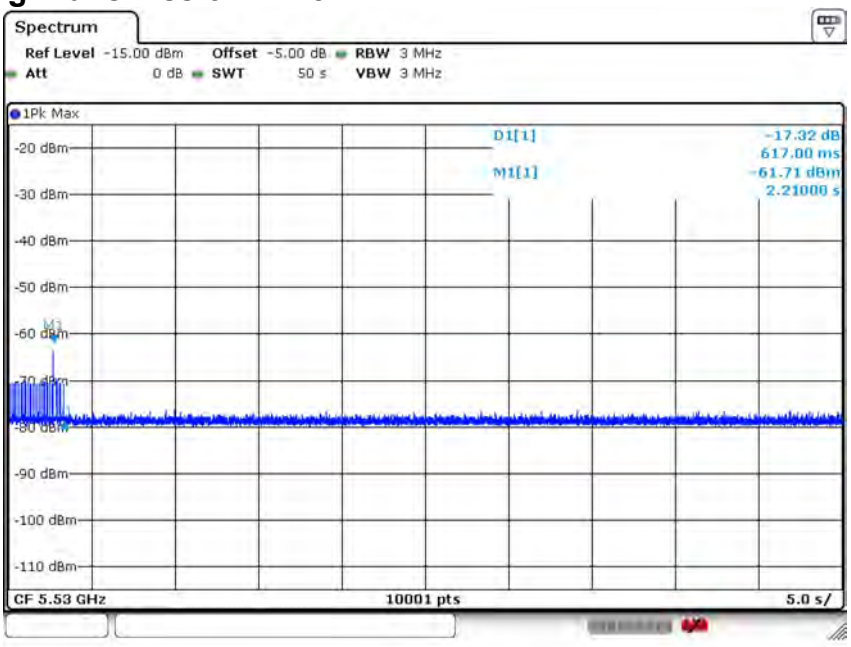
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

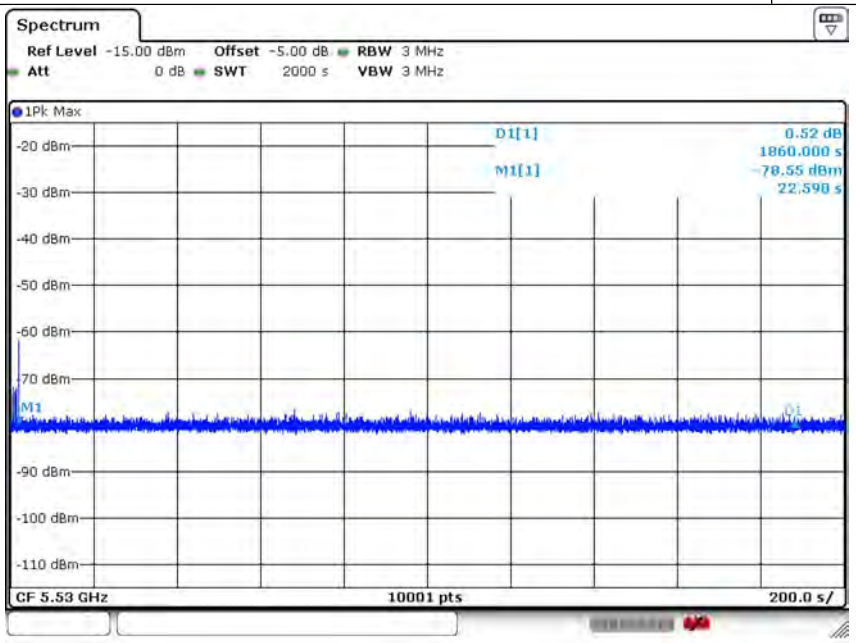



Note: T1=M1+200ms=2.410s, T2=T1+10s=12.410s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 11ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

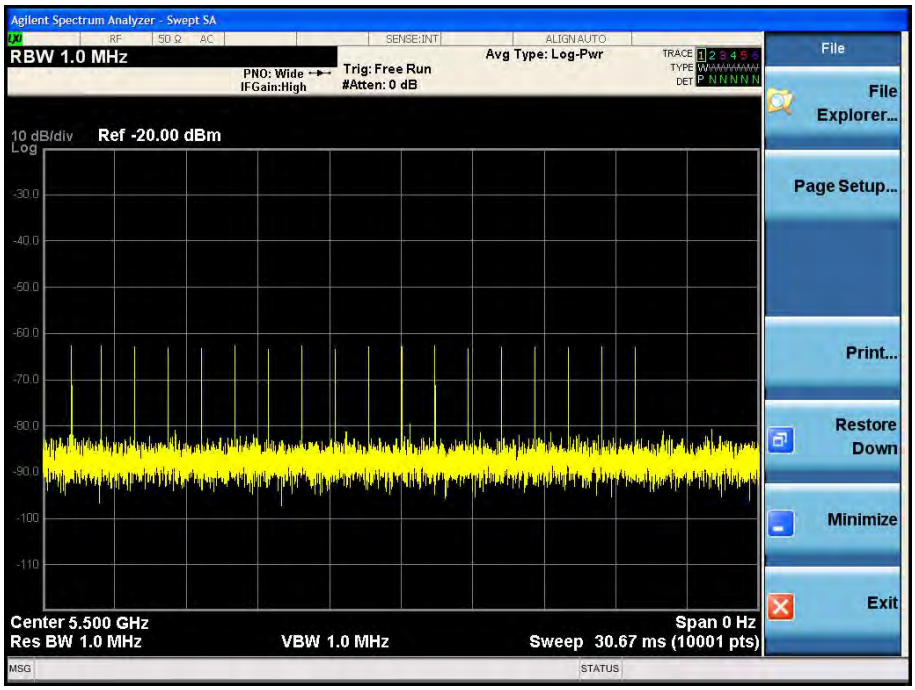


## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

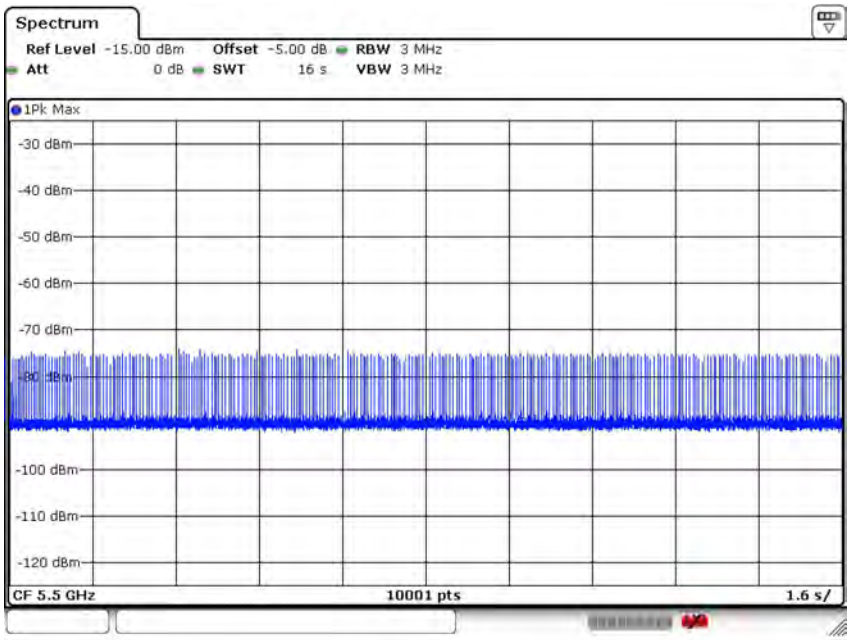
## 5470-5725MHz（802.11 n 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5500 MHz.

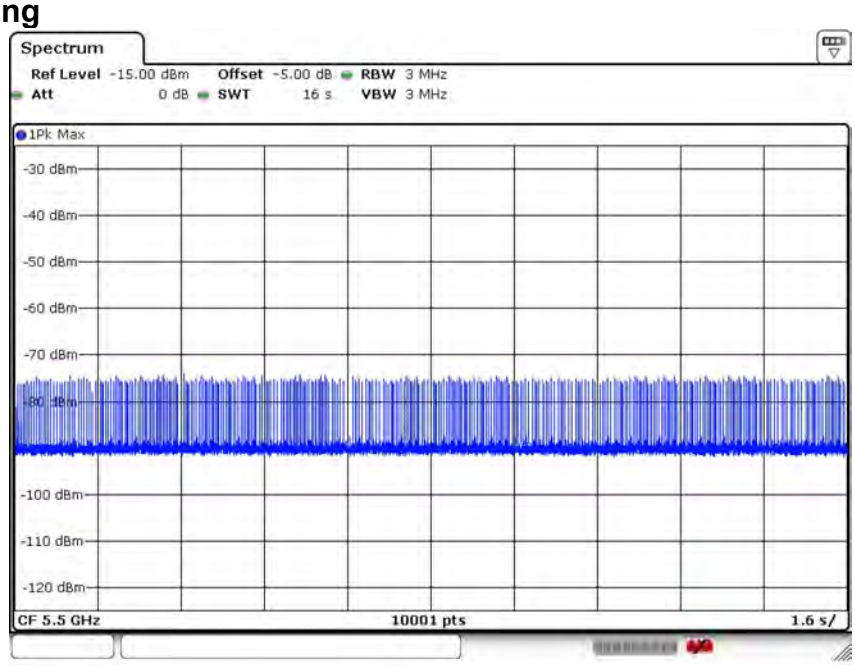
## RADAR WAVEFORM




## Traffic



## Channel Loading

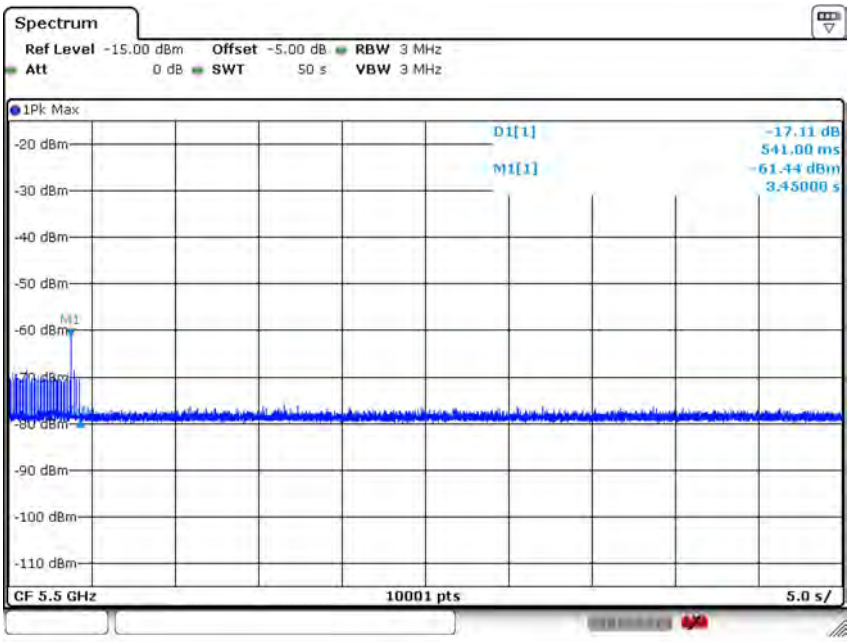



The level of traffic loading on the channel by the EUT is 14.62%

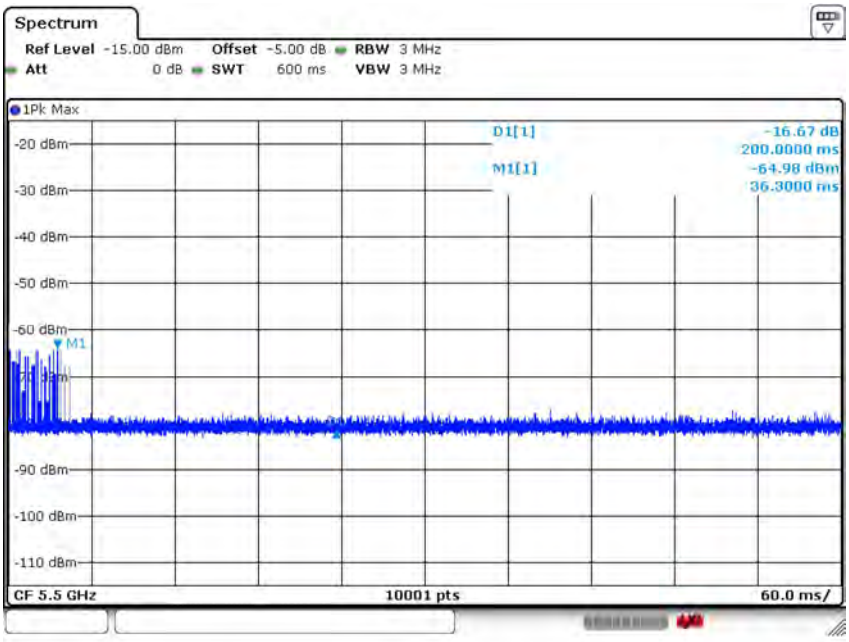
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.541 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 6 | 60 |

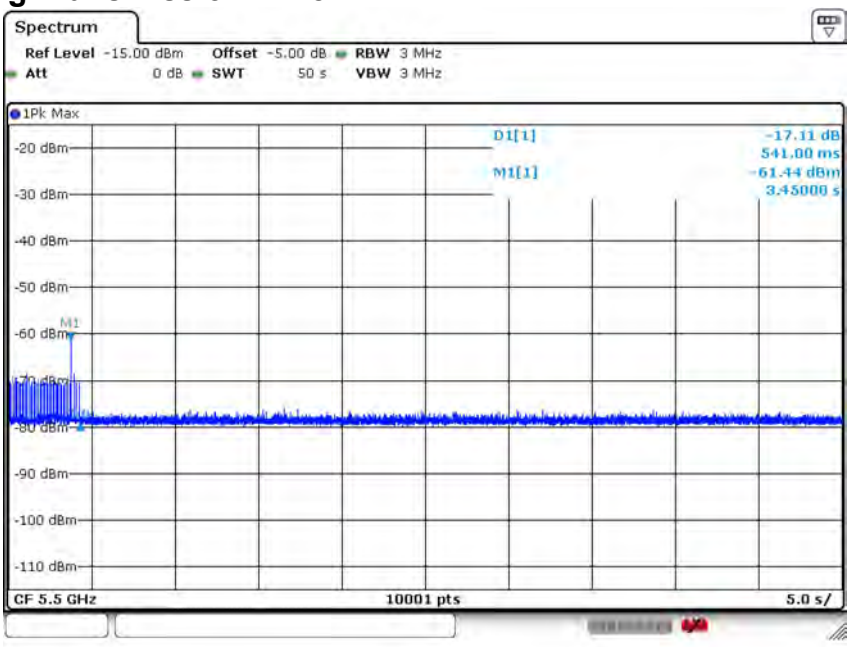
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

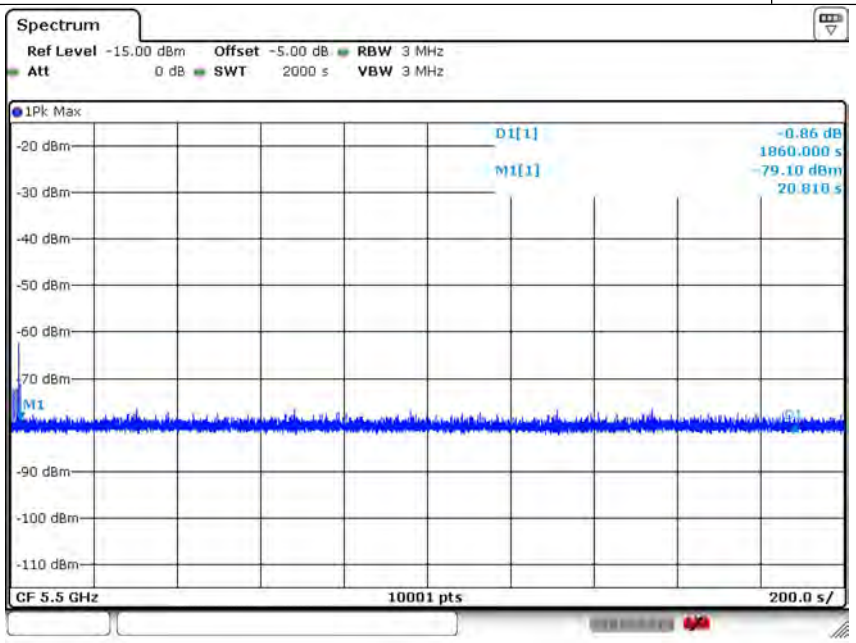



Note: T1=M1+200ms=3.650s, T2=T1+10s=13.650s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 6ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

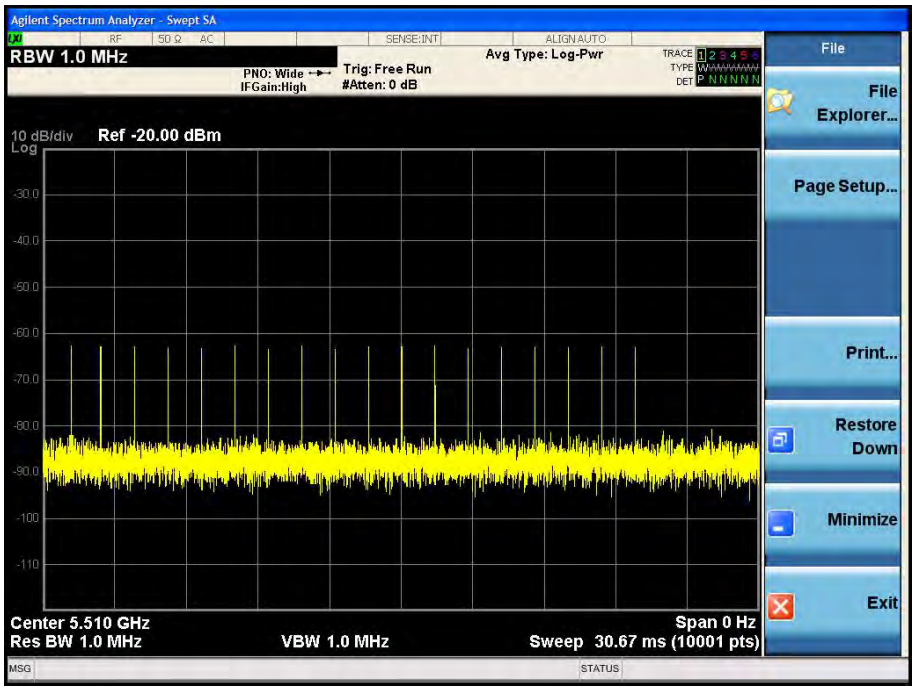


## CLIENT MODE RESULTS FOR 40MHz BANDWIDTH

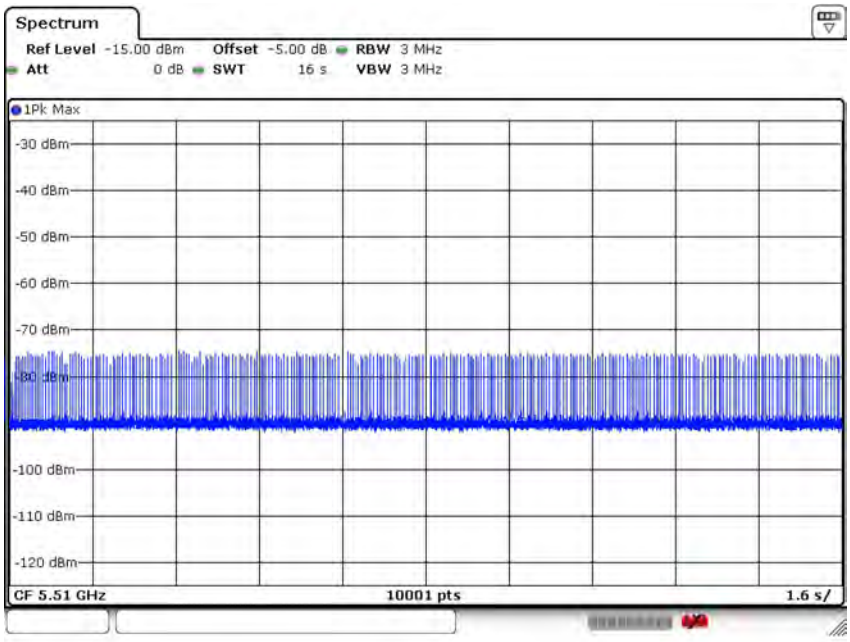
## 5470-5725MHz（802.11 n 40MHz）

Client devices with 40 MHz BW mode can be tested with an approved master operating in 40 MHz BW mode in 5510 MHz.

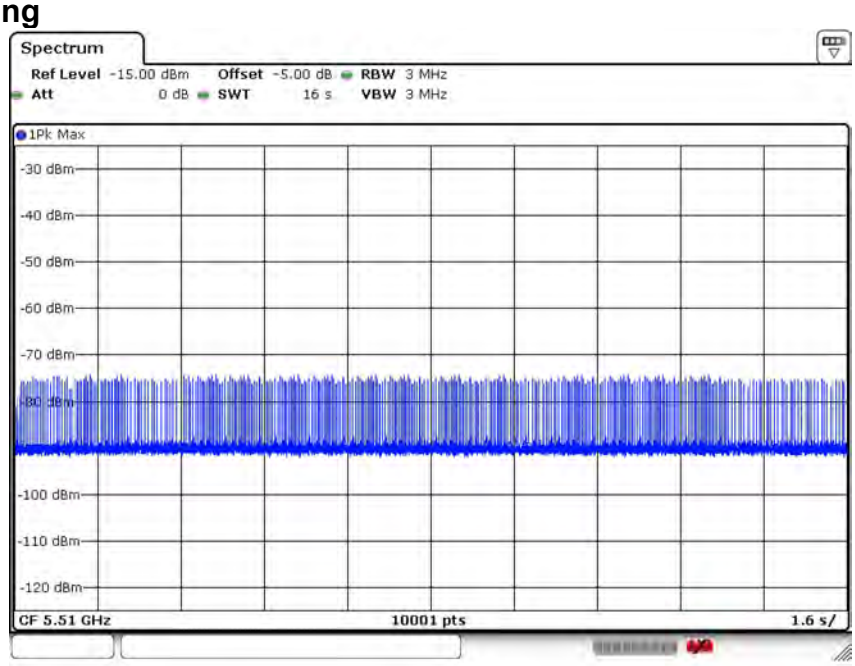
## RADAR WAVEFORM




## Traffic



## Channel Loading

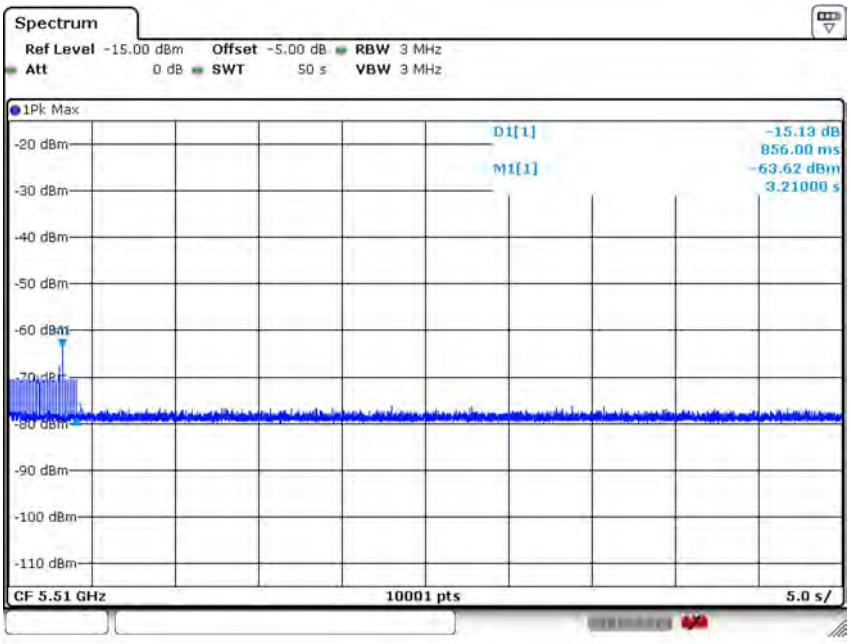



The level of traffic loading on the channel by the EUT is 16.32%

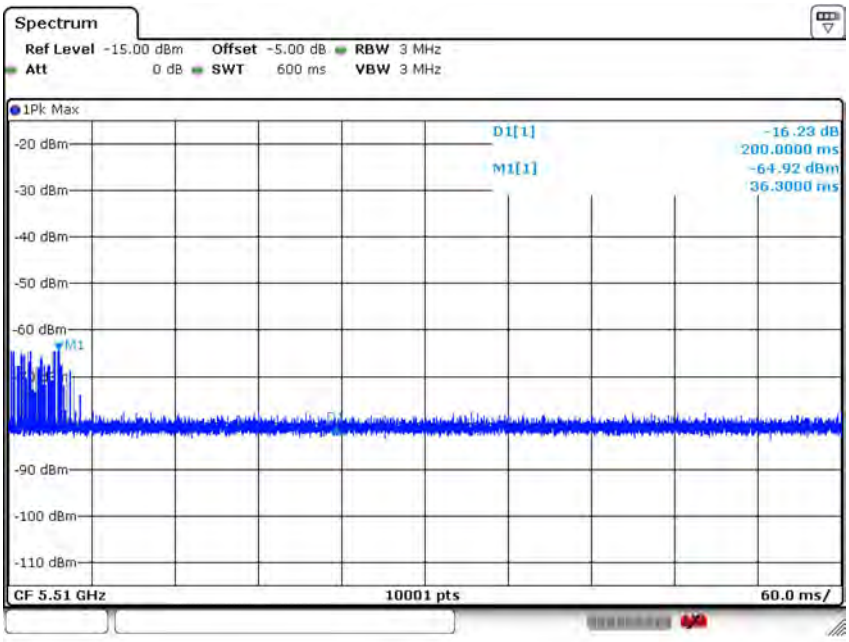
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.856 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 14 | 60 |

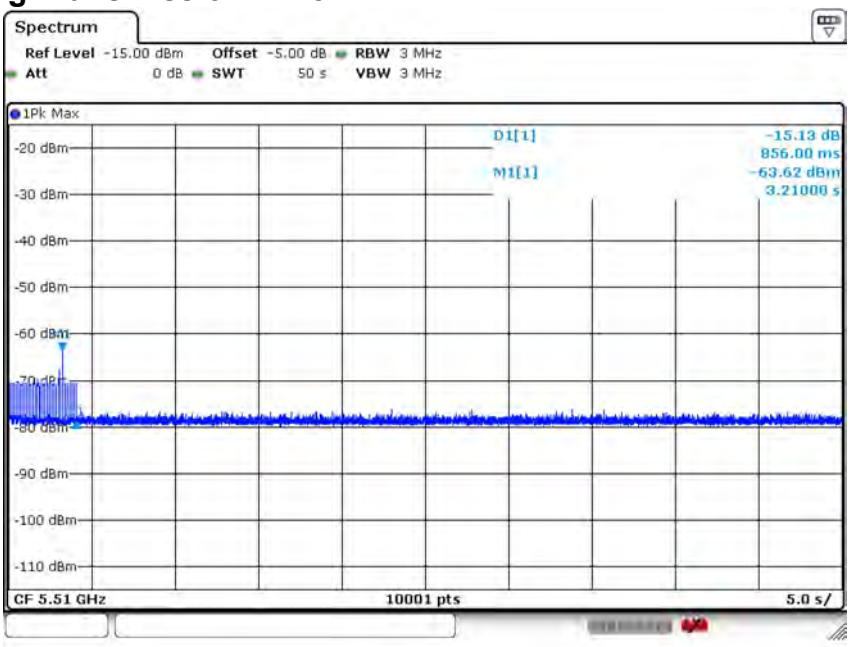
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

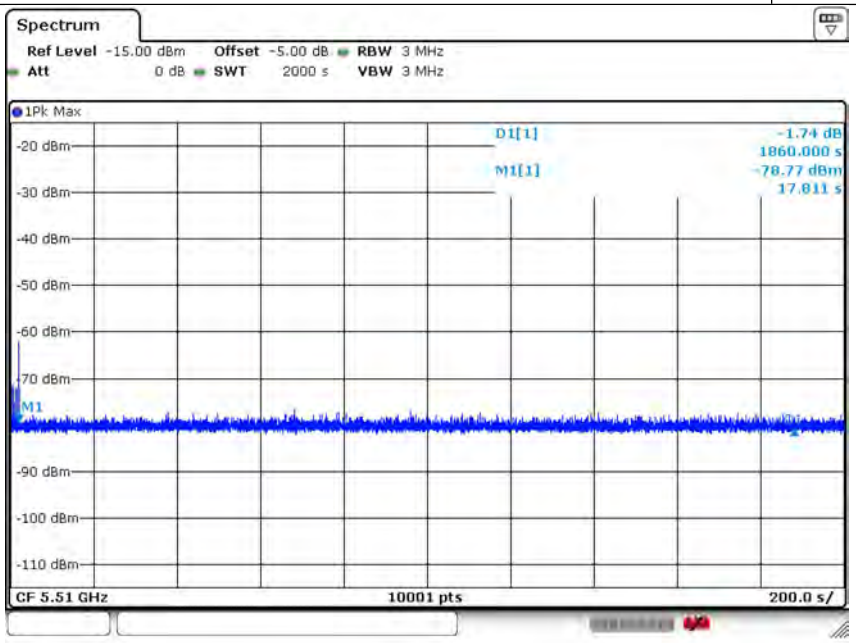



Note: T1=M1+200ms=3.410s, T2=T1+10s=13.410s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 14ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |

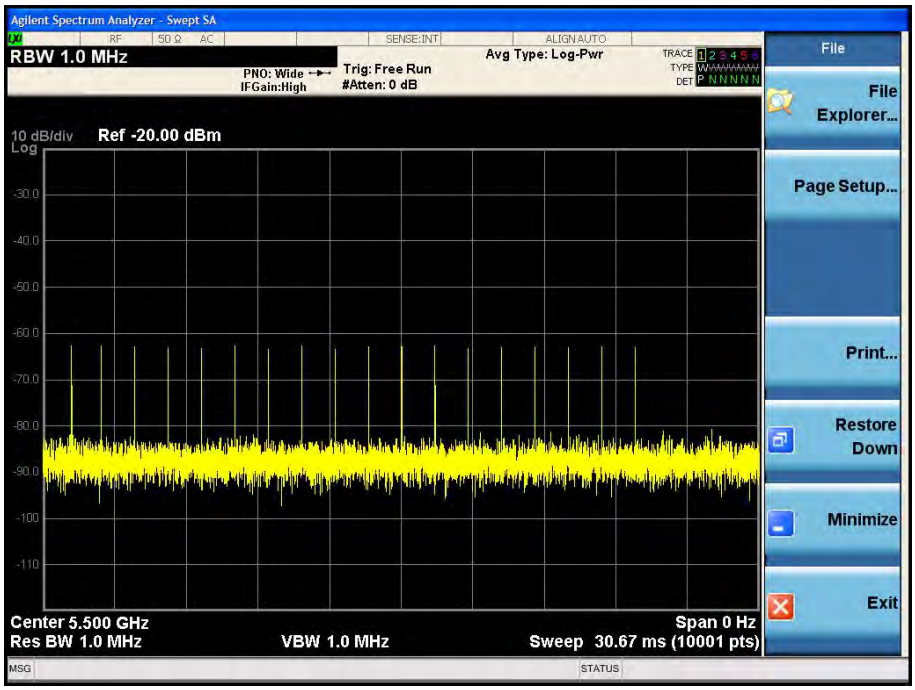


## CLIENT MODE RESULTS FOR 20MHz BANDWIDTH

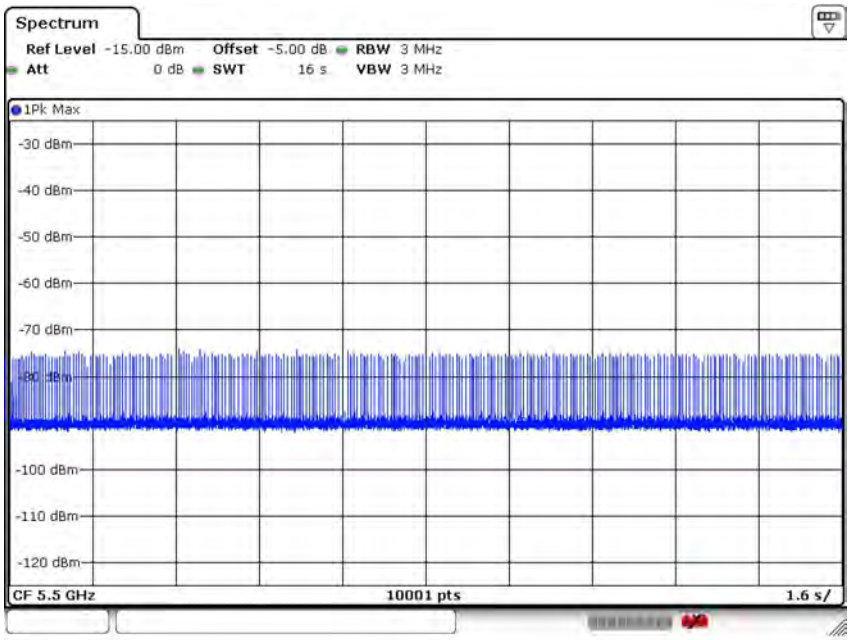
## 5470-5725MHz（802.11a 20MHz）

Client devices with 20 MHz BW mode can be tested with an approved master operating in 20 MHz BW mode in 5500 MHz.

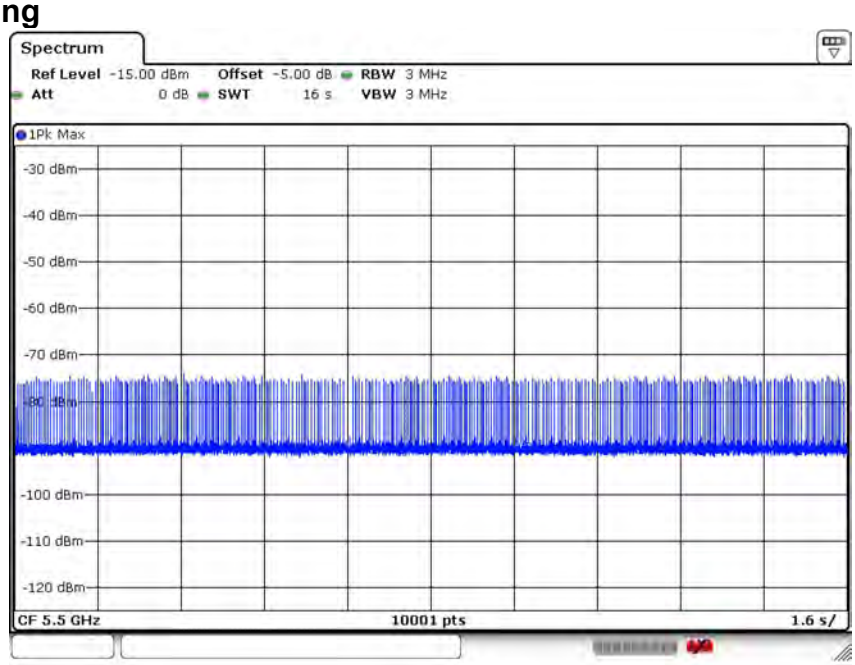
## RADAR WAVEFORM




## Traffic



## Channel Loading

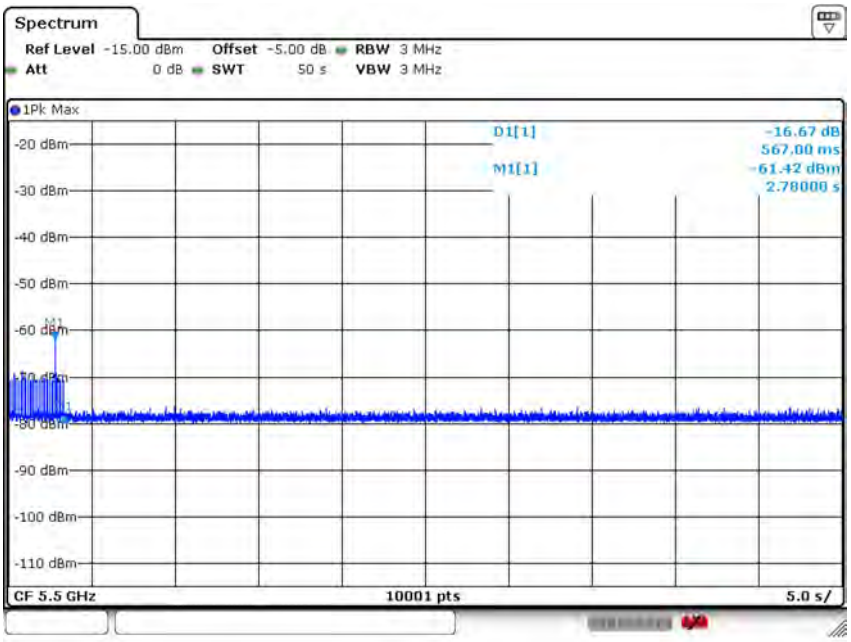



The level of traffic loading on the channel by the EUT is 15.36%

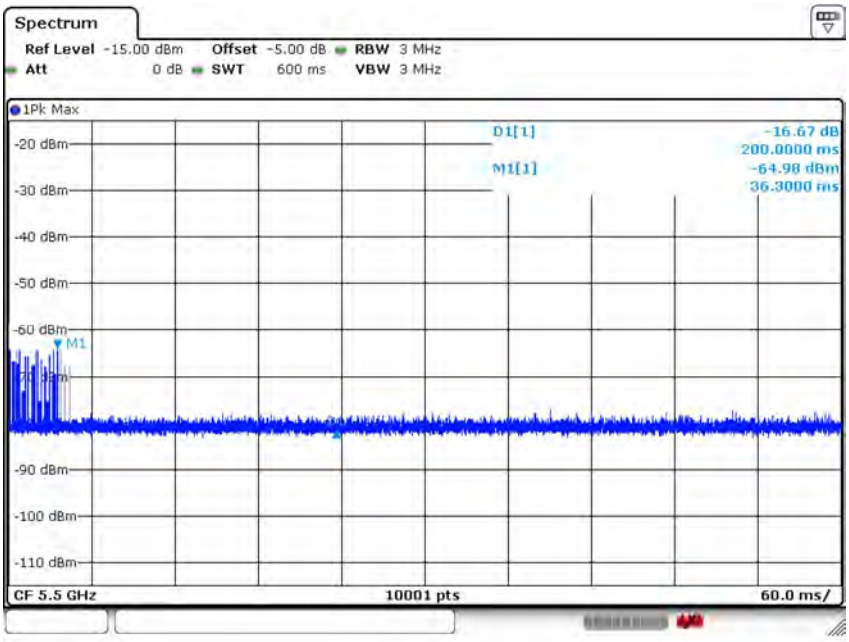
| Channel Move Time (sec) | Limit (sec) |
|---|---|
| 0.567 | 10.0 |

| Channel Closing Transmission Time (msec) | Limit (msec) |
|---|---|
| 13 | 60 |

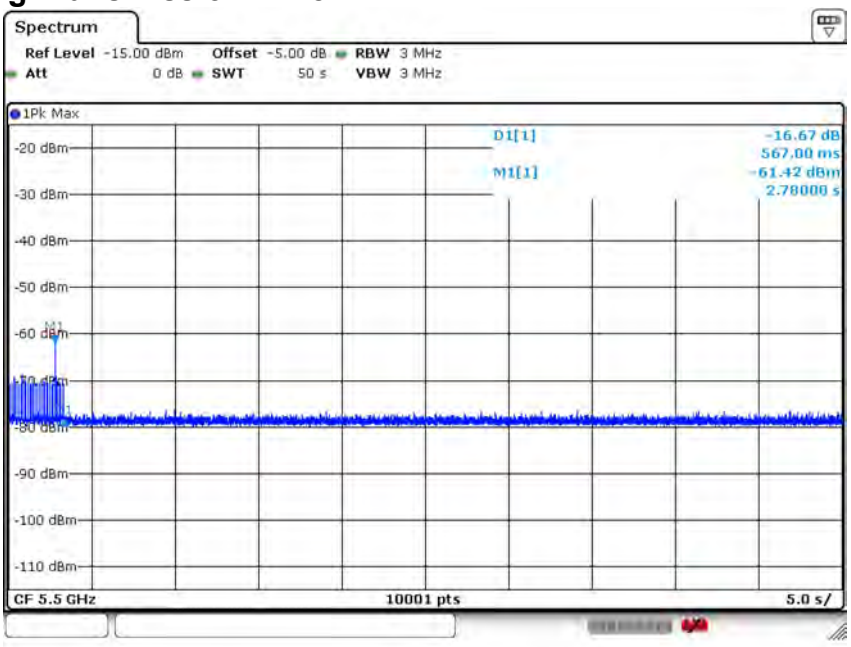
## Channel Move Time



## Channel Closing Time




## Channel Closing Transmission Time

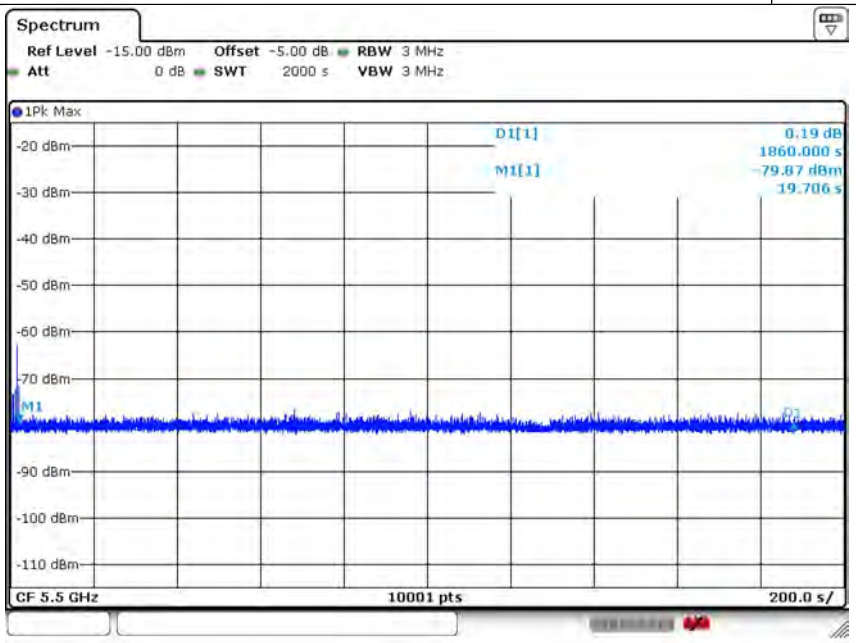



Note: T1=M1+200ms=2.980s, T2=T1+10s=12.980s;
Channel Closing Transmission Time=Aggregate time above threshold between T1 and T2 (trace data time) = 13ms

## Non-occupancy Period

The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes.

| Non-occupancy Period (sec) | Limit (sec) |
|---|---|
| 1860 | 1800 |



# APPENDIX B – TEST DATA OF RADIATED EMISSION

**Spurious Radiated Emissions**

Peak detector：RBW=1MHz,VBW=3MHz,sweep time=200ms；
Average detector：RBW=1MHz,VBW=3MHz,sweep time=auto；

Carrier frequency (MHz): 5180 MHz
Channel No.:36
Test Mode: 802.11a
Polarity:Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5180 | 103.32 | 56.42 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 54.35 | 7.45 | 19.65 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5180 MHz
Channel No.:36
Test Mode: 802.11a
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5180 | 98.67 | 51.77 | N/A | N/A | 12.40 | 34.50 |
| 2 | 5150 | 53.78 | 6.88 | 20.22 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5180 MHz
Channel No.: 36
Test Mode: 802.11a
Polarity:Vertical
Detector: Average

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5180 | 97.19 | 50.29 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 40.86 | -6.04 | 13.14 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5180 MHz
Channel No.: 36
Test Mode: 802.11a
Polarity:Horizontal
Detector: Average

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5180 | 92.49 | 45.59 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 40.3 | -6.48 | 13.74 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5240 MHz
Channel No.:48
Test Mode: 802.11a
Polarity:Vertical
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5240 | 104.24 | 57.34 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 54.39 | 7.49 | 19.61 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5240 MHz
Channel No.:48
Test Mode: 802.11a
Polarity:Horizontal
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5240 | 99.88 | 52.98 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 53.52 | 6.46 | 20.48 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5240 MHz
Channel No.:48
Test Mode: 802.11a
Polarity:Vertical
Detector: Average

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5240 | 97.79 | 50.89 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 40.18 | -6.72 | 13.82 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5240 MHz
Channel No.:48
Test Mode: 802.11a
Polarity:Horizontal
Detector: Average

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5240 | 93.11 | 46.21 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 39.5 | -7.38 | 14.48 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5550 MHz
Channel No.:110
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5550 | 109.09 | 61.49 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5520 | 54.38 | 6.78 | 70.32 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5550 MHz
Channel No.:110
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5550 | 104.51 | 56.91 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5520 | 54.02 | 6.42 | 70.68 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5700 MHz
Channel No.:140
Test Mode: 802.11n(HT20)
Polarity: Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5700 | 108.69 | 61.09 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5750 | 53.30 | 5.70 | 71.40 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5700 MHz
Channel No.:140
Test Mode: 802.11n(HT20)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5700 | 103.23 | 55.63 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5750 | 53.21 | 5.61 | 71.49 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5190
Channel No.:38
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5190 | 104.30 | 57.40 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 53.52 | 6.46 | 20.48 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5190
Channel No.:38
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5190 | 100.14 | 53.24 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 54.47 | 7.57 | 19.53 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz): 5190
Channel No.:38
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5190 | 97.88 | 50.98 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 40.90 | -6.00 | 13.10 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5190
Channel No.:38
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5190 | 93.64 | 46.74 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5150 | 40.6 | -6.31 | 13.41 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz):5230
Channel No.:46
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5230 | 103.80 | 56.90 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 54.38 | 7.48 | 19.62 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz):5230
Channel No.:46
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5230 | 99.07 | 52.17 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 54.47 | 7.57 | 19.53 | 74 | 12.4 | 34.5 |

Carrier frequency (MHz):5230
Channel No.:46
Test Mode: 802.11n(HT40)
Polarity: Vertical
Detector: Average

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5230 | 97.53 | 50.63 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 40.98 | -5.92 | 13.02 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz):5230
Channel No.:46
Test Mode: 802.11n(HT40)
Polarity:Horizontal
Detector: Average

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5230 | 93.23 | 46.33 | N/A | N/A | 12.4 | 34.5 |
| 2 | 5270 | 40.6 | -6.35 | 13.45 | 54 | 12.4 | 34.5 |

Carrier frequency (MHz): 5745 MHz
Channel No.:149
Test Mode: 802.11ac(HT20)
Polarity:Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5745 | 109.05 | 61.45 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5725 | 54.11 | 6.51 | 70.59 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5745 MHz
Channel No.:149
Test Mode: 802.11ac(HT20)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5745 | 104.55 | 56.95 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5725 | 53.72 | 6.12 | 70.98 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5825 MHz
Channel No.:165
Test Mode: 802.11ac(HT20)
Polarity:Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5825 | 108.25 | 60.65 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5850 | 53.14 | 5.54 | 71.56 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5745 MHz
Channel No.:165
Test Mode: 802.11ac(HT20)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5825 | 103.42 | 55.82 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5850 | 53.39 | 5.79 | 71.31 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5755
Channel No.:151
Test Mode: 802.11ac(HT40)
Polarity: Vertical
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5755 | 108.44 | 60.84 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5725 | 53.94 | 6.34 | 70.76 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5755
Channel No.:151
Test Mode: 802.11ac(HT40)
Polarity:Horizontal
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5755 | 103.62 | 56.02 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5725 | 54.33 | 6.73 | 70.37 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz): 5795
Channel No.:159
Test Mode: 802.11ac(HT40)
Polarity: Vertical
Detector: Peak

| No | Frequency （MHz） | Measure Level （dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5795 | 107.92 | 60.32 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5825 | 107.92 | 60.32 | N/A | N/A | 12.9 | 34.7 |

Carrier frequency (MHz): 5795
Channel No.:159
Test Mode: 802.11ac(HT40)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5795 | 102.96 | 55.36 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5825 | 53.75 | 6.15 | 70.95 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz):5775
Channel No.:155
Test Mode: 802.11ac(HT80)
Polarity: Vertical
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5775 | 109.12 | 61.52 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5825 | 54.47 | 6.87 | 70.23 | 90 | 12.9 | 34.7 |

Carrier frequency (MHz):5775
Channel No.:155
Test Mode: 802.11ac(HT80)
Polarity:Horizontal
Detector: Peak

| No | Frequency（MHz） | Measure Level（dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuv/m) | cable loss (dB) | antenna factor (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 5775 | 104.67 | 57.07 | N/A | N/A | 12.9 | 34.7 |
| 2 | 5825 | 54.07 | 6.47 | 70.63 | 90 | 12.9 | 34.7 |

For 802.11a

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity |
|---|---|---|---|---|
| 31.96 | 23.50 | 19.7 | 3.8 | Vertical |
| 47.95 | 26.20 | 10.2 | 16.0 | Vertical |
| 86.11 | 25.40 | 11.8 | 13.6 | Vertical |
| 419.83 | 22.20 | 19.8 | 2.4 | Horizontal |
| 539.07 | 22.30 | 22.4 | -0.1 | Vertical |
| 877.75 | 27.30 | 27.9 | -0.6 | Vertical |

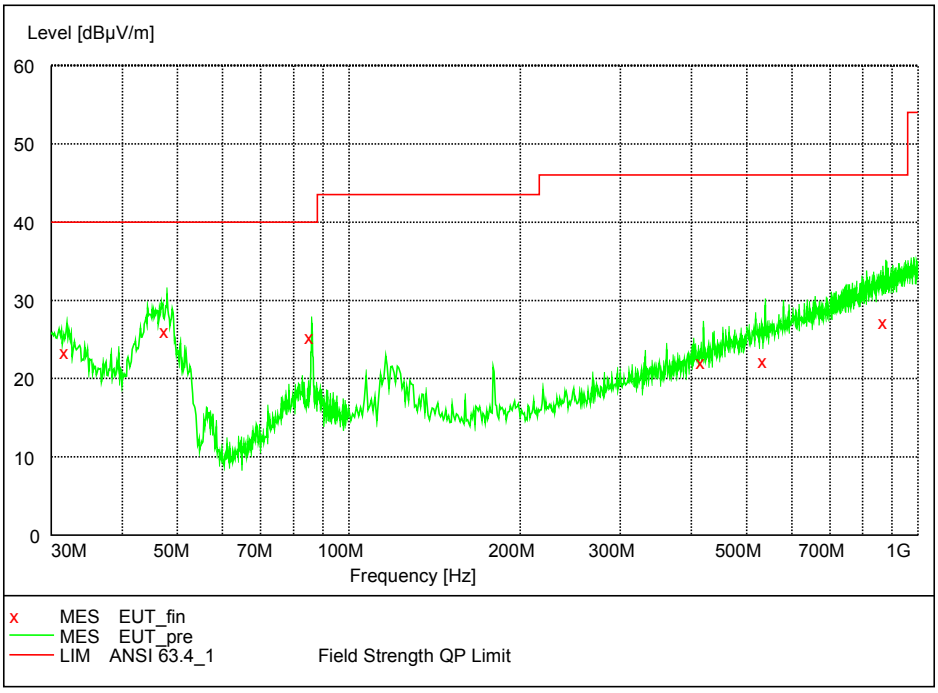
For 802.11n(HT20)

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity |
|---|---|---|---|---|
| 30.28 | 20.50 | 20.7 | -0.2 | Vertical |
| 45.71 | 23.50 | 11.5 | 12.0 | Vertical |
| 86.11 | 24.80 | 11.8 | 13.0 | Vertical |
| 419.83 | 24.20 | 19.8 | 4.4 | Horizontal |
| 539.07 | 21.70 | 22.4 | -0.7 | Vertical |
| 942.88 | 28.40 | 28.7 | -0.3 | Vertical |

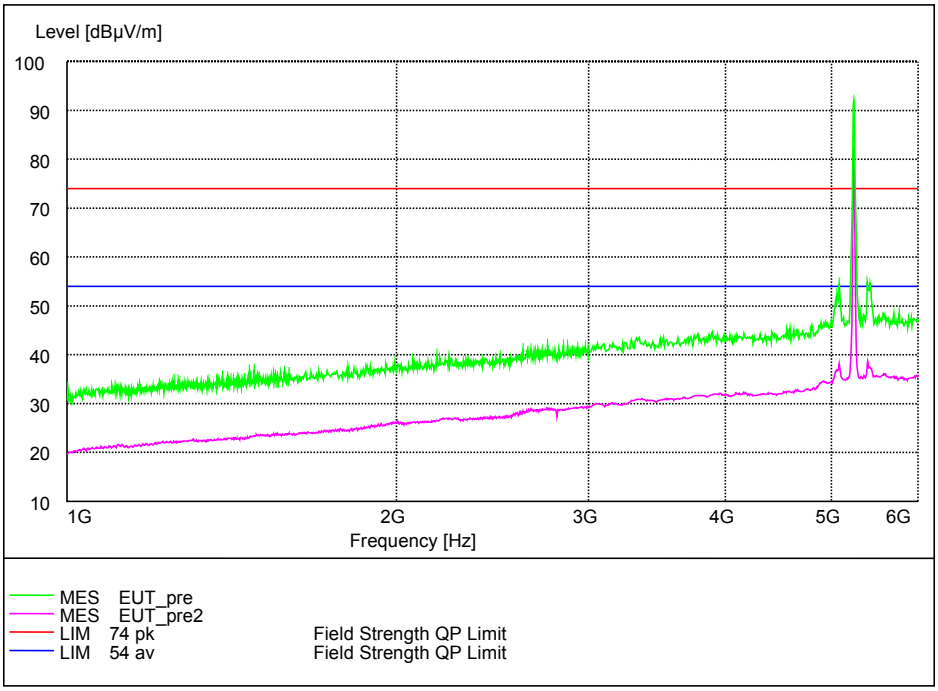
For 802.11ac(HT20)

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity |
|---|---|---|---|---|
| 30.28 | 20.30 | 20.7 | -0.4 | Vertical |
| 47.39 | 22.10 | 10.5 | 11.6 | Vertical |
| 86.25 | 24.40 | 11.8 | 12.6 | Vertical l |
| 486.37 | 19.90 | 21.3 | -1.4 | Horizonta |
| 546.09 | 21.30 | 22.6 | -1.3 | Vertical |
| 891.78 | 27.50 | 28.1 | -0.6 | Vertical |

Carrier frequency (MHz): 5200
Channel No.:40

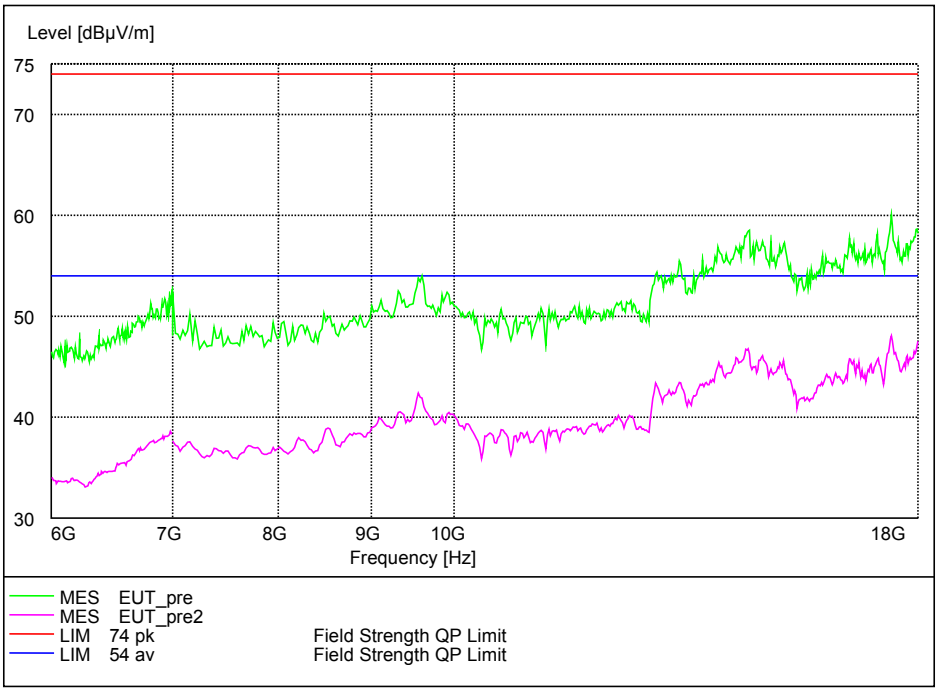



Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11a

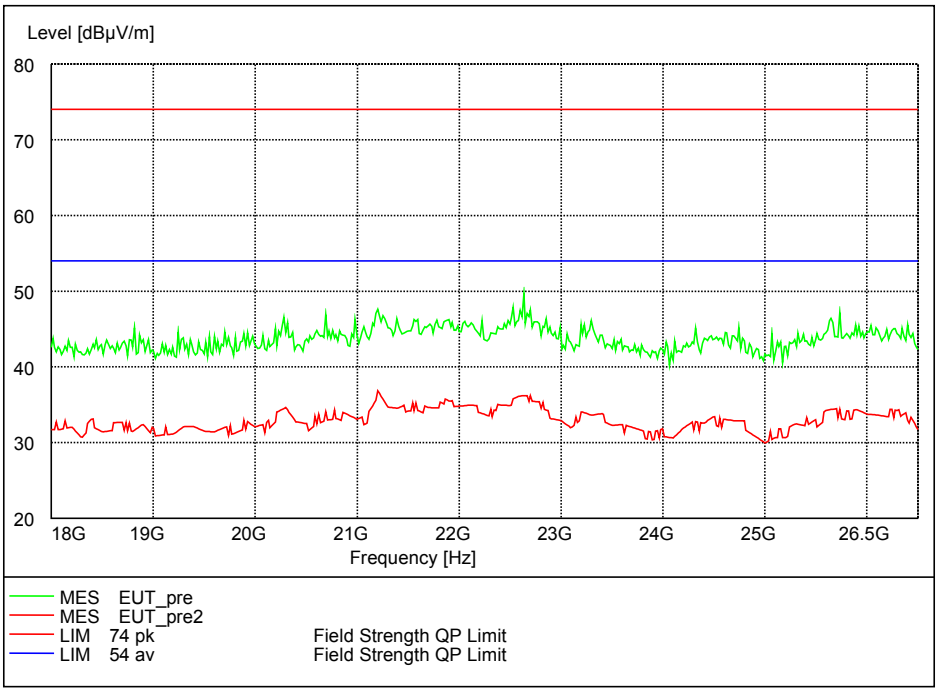



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode

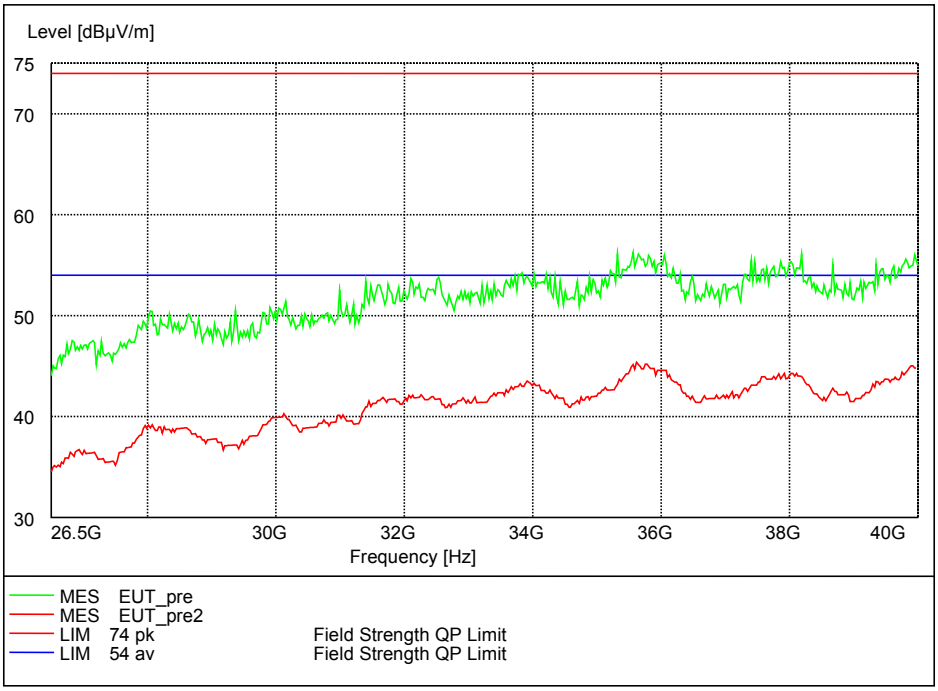
Modulation type: 802.11a




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

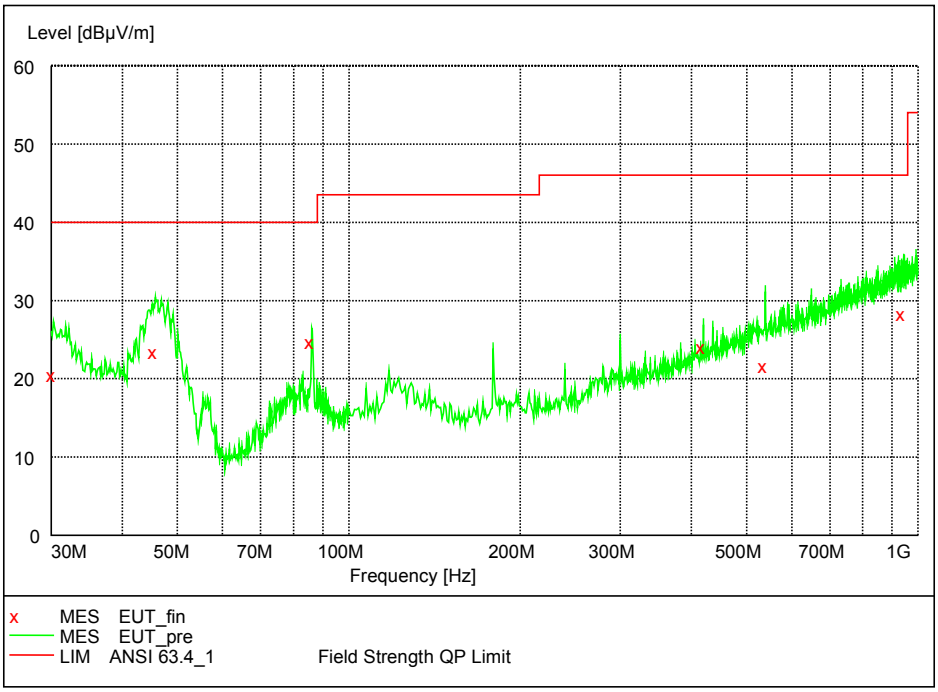



Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

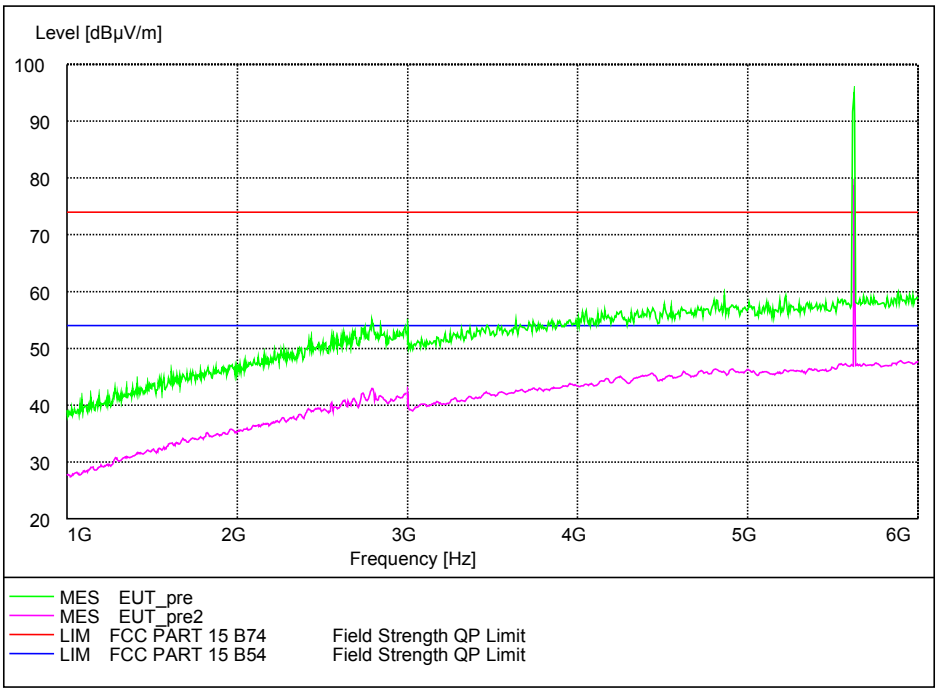



Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

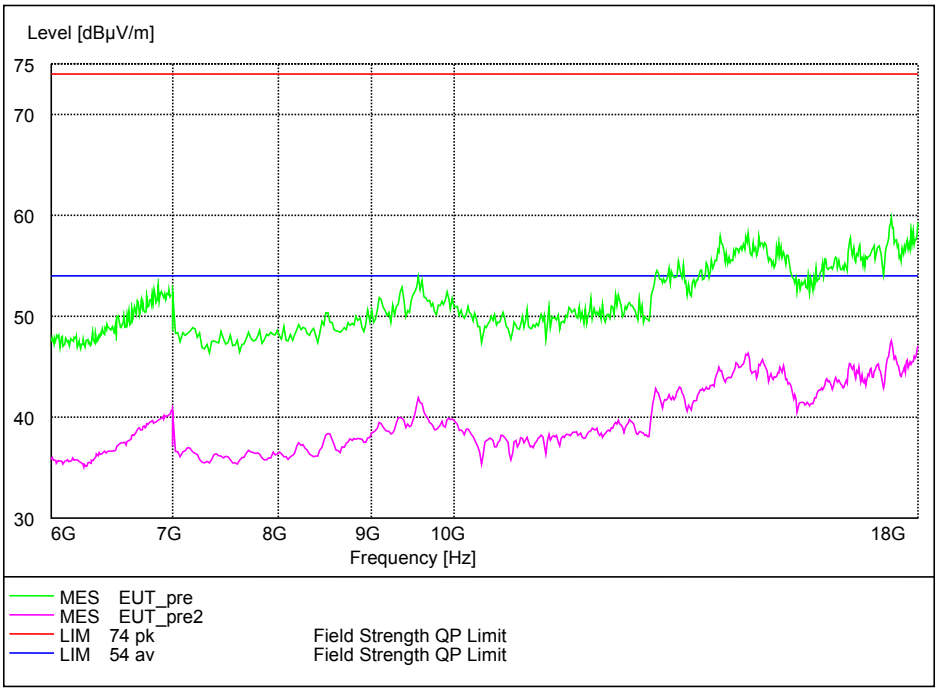
Carrier frequency (MHz): 5580
Channel No.:116



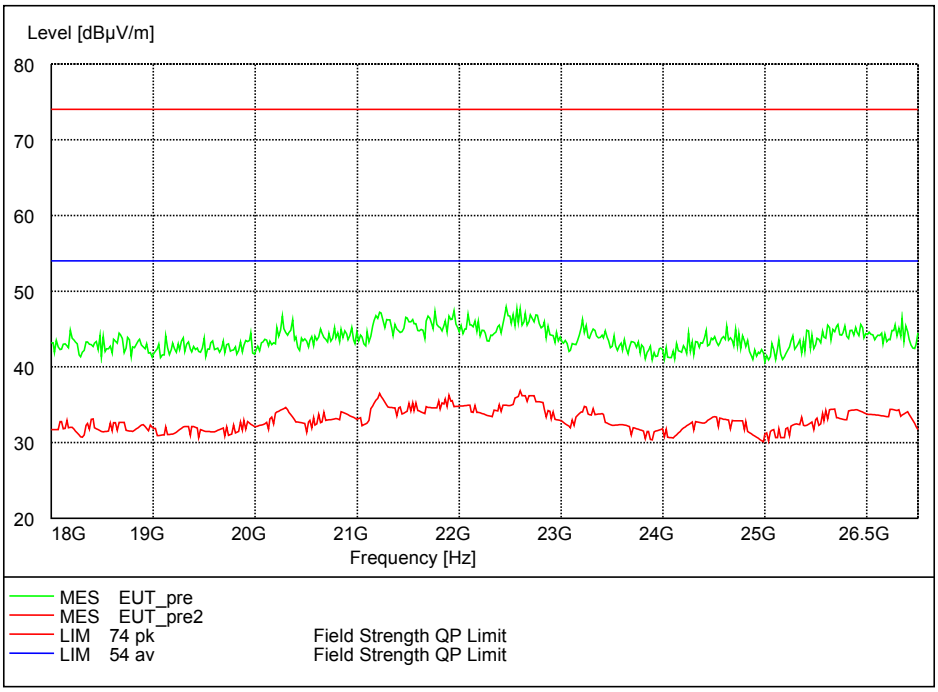

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)



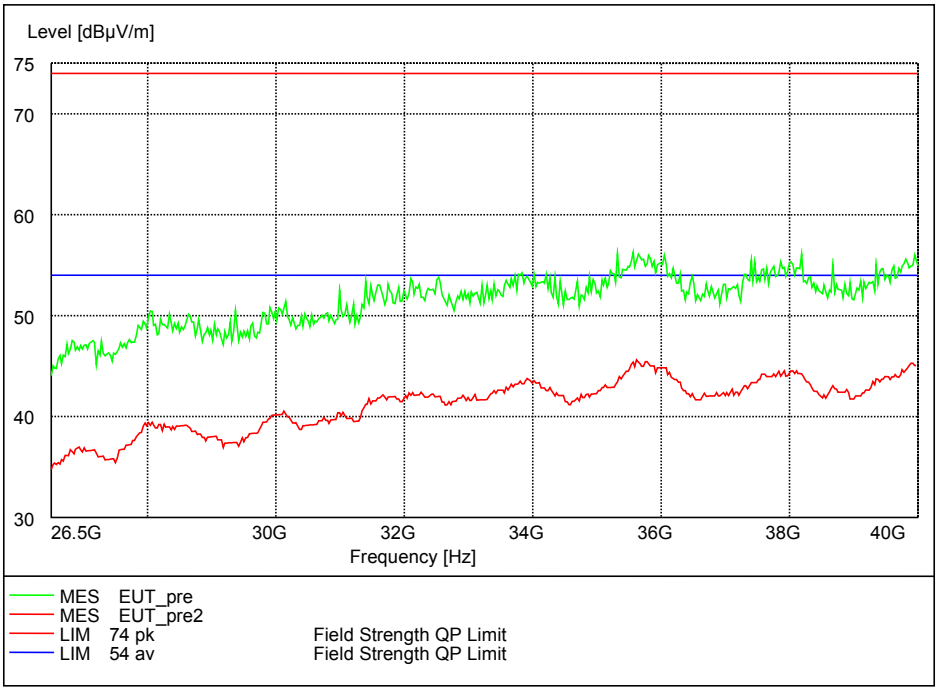

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

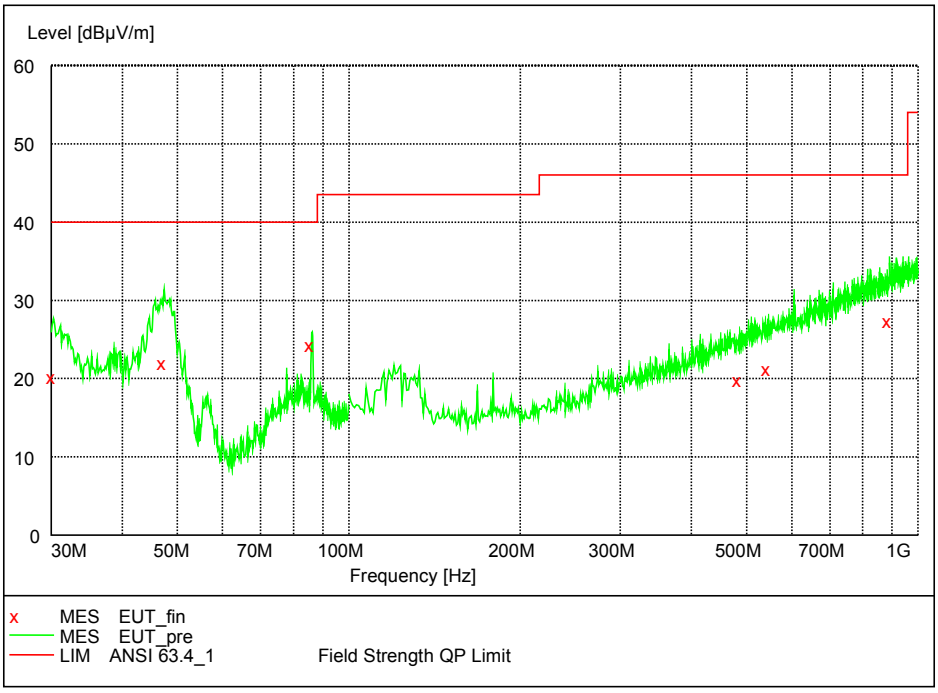



Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

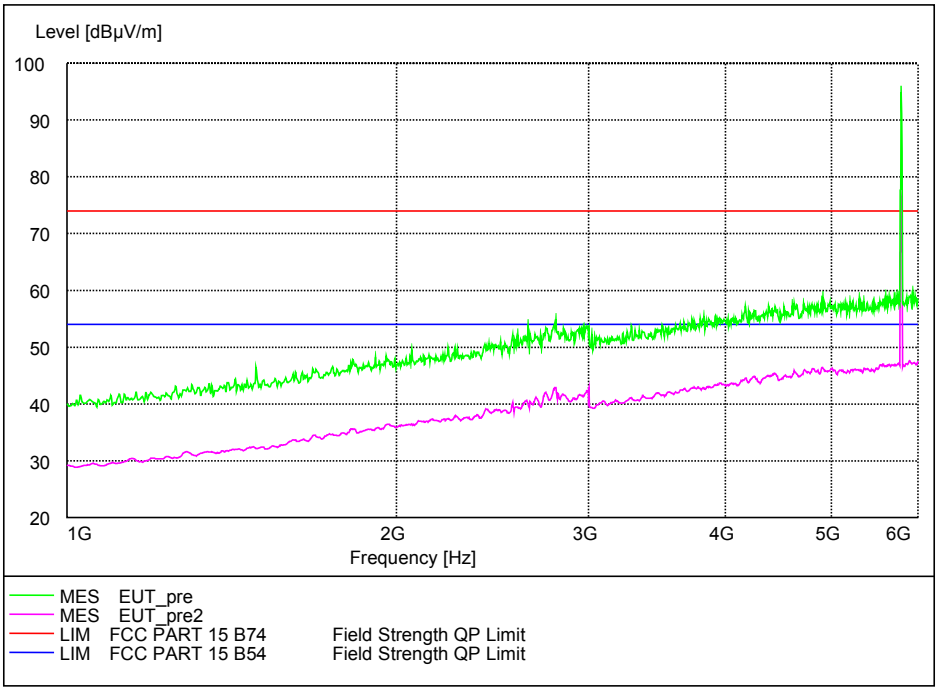



Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 5785
Channel No.:157

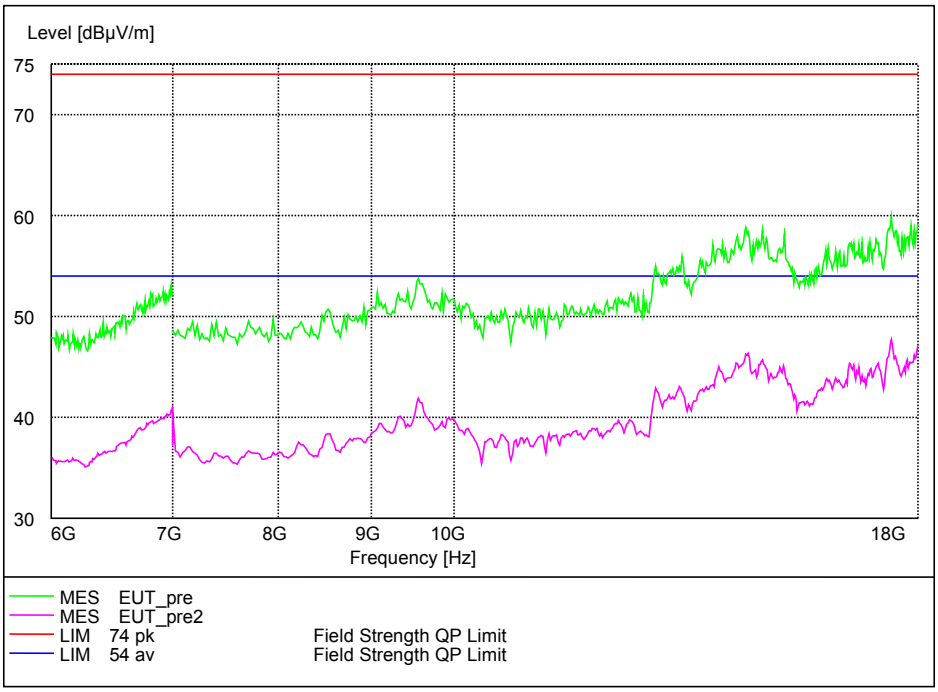



Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40)

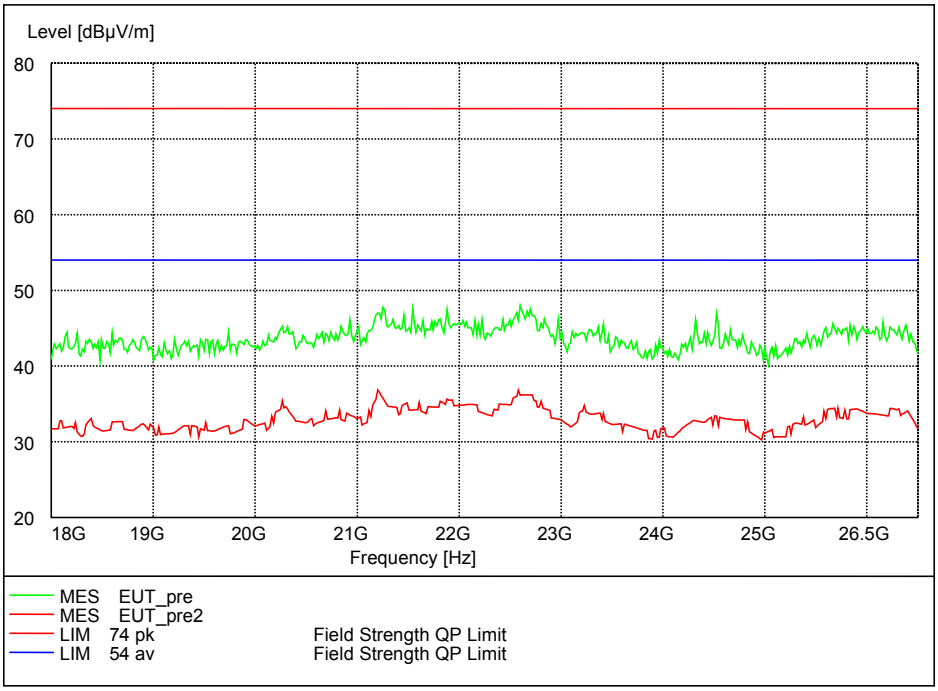



Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode

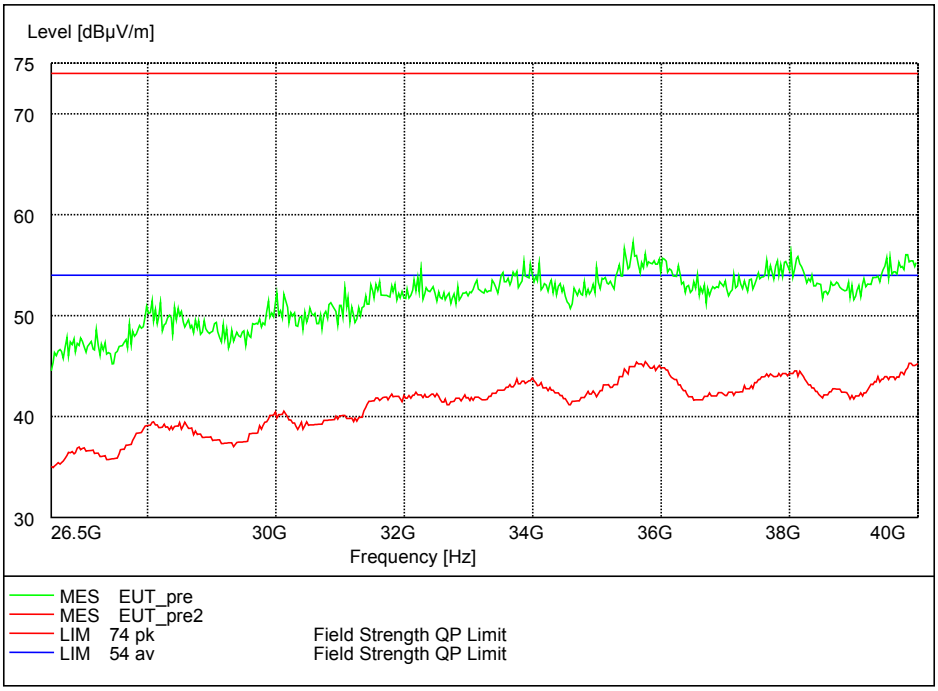
Modulation type: 802.11n(HT40)




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

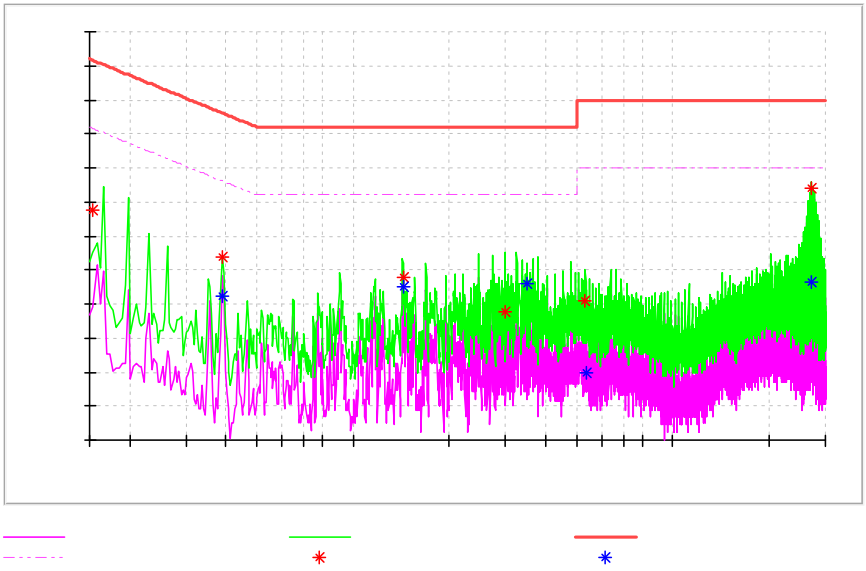



Frequency Range: 18GHz -26.5GHz
Detector: Av mode and PK mode




Frequency Range: 26.5GHz -40GHz
Detector: Av mode and PK mode

## AC Power line Conducted Emission



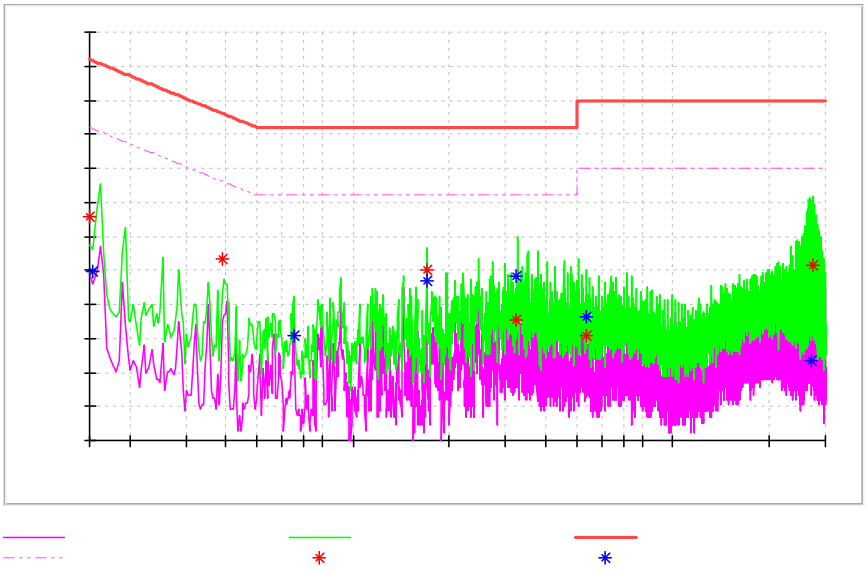
L Line

***MEASUREMENT RESULT: "MOBILE_fin QP"***

| Frequency MHz | QuasiPeak dBµV | Limit dBµV | Margin dB |
|---|---|---|---|
| 0.154000 | 43.69 | 65.78 | 22.09 |
| 0.391000 | 36.83 | 58.04 | 21.21 |
| 1.435000 | 33.99 | 56.00 | 22.01 |
| 2.991000 | 28.78 | 56.00 | 27.22 |
| 5.335000 | 30.52 | 60.00 | 29.48 |
| 27.251000 | 46.98 | 60.00 | 13.02 |

***MEASUREMENT RESULT: "MOBILE_fin AV"***

| Frequency MHz | Average dBµV | Limit dBµV | Margin dB |
|---|---|---|---|
| 0.391000 | 31.19 | 48.04 | 16.85 |
| 1.435000 | 32.51 | 46.00 | 13.49 |
| 3.519000 | 32.94 | 46.00 | 13.06 |
| 5.351000 | 19.94 | 50.00 | 30.06 |
| 27.247000 | 33.29 | 50.00 | 16.71 |



N Line

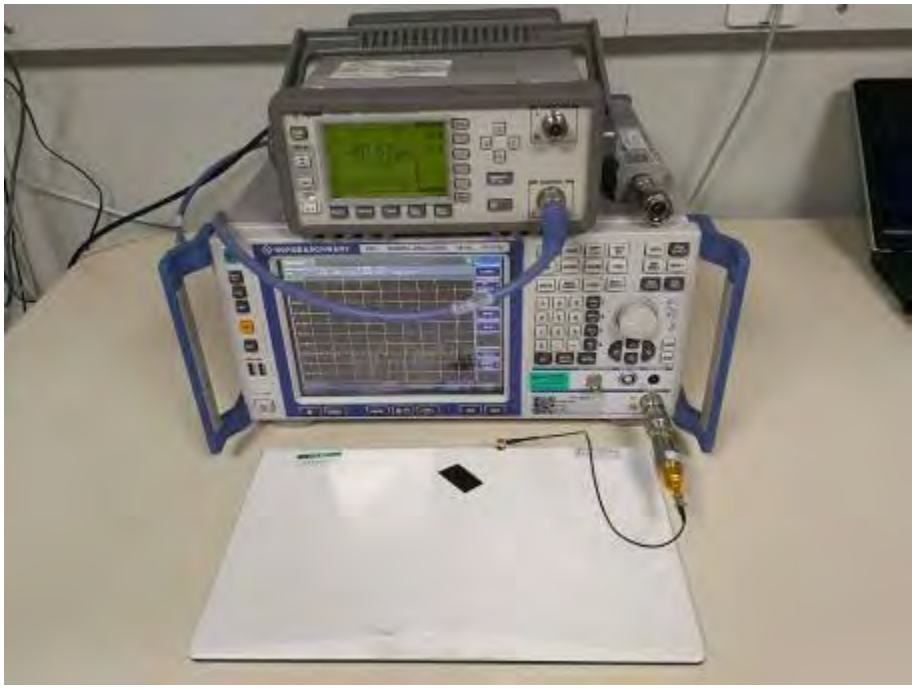
***MEASUREMENT RESULT: "MOBILE_fin QP"***

| Frequency MHz | QuasiPeak dBµV | Limit dBµV | Margin dB |
|---|---|---|---|
| 0.150000 | 42.92 | 66.00 | 23.08 |
| 0.391000 | 36.76 | 58.04 | 21.28 |
| 1.695000 | 35.00 | 56.00 | 21.00 |
| 3.251000 | 27.73 | 56.00 | 28.27 |
| 5.343000 | 25.39 | 60.00 | 34.61 |
| 27.299000 | 35.70 | 60.00 | 24.30 |

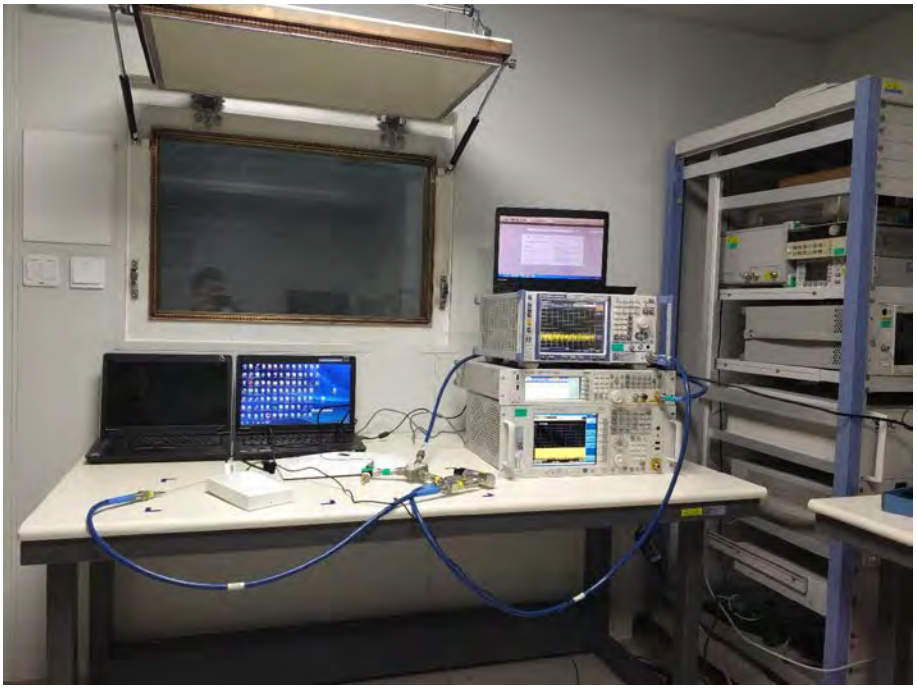
***MEASUREMENT RESULT: "MOBILE_fin AV"***

| Frequency MHz | Average dBµV | Limit dBµV | Margin dB |
|---|---|---|---|
| 0.154000 | 34.86 | 55.78 | 20.92 |
| 0.655000 | 25.47 | 46.00 | 20.53 |
| 1.699000 | 33.34 | 46.00 | 12.66 |
| 3.251000 | 34.19 | 46.00 | 11.81 |
| 5.355000 | 28.16 | 50.00 | 21.84 |
| 27.243000 | 21.66 | 50.00 | 28.34 |

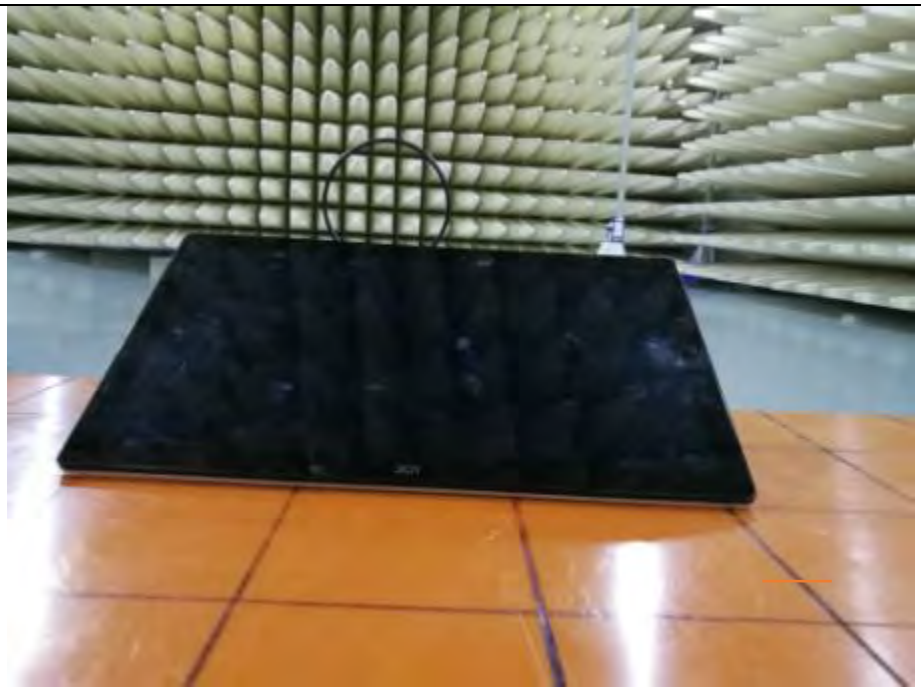
# APPENDIX C – TEST SETUP



Spurious RF Conducted Emissions Test setup

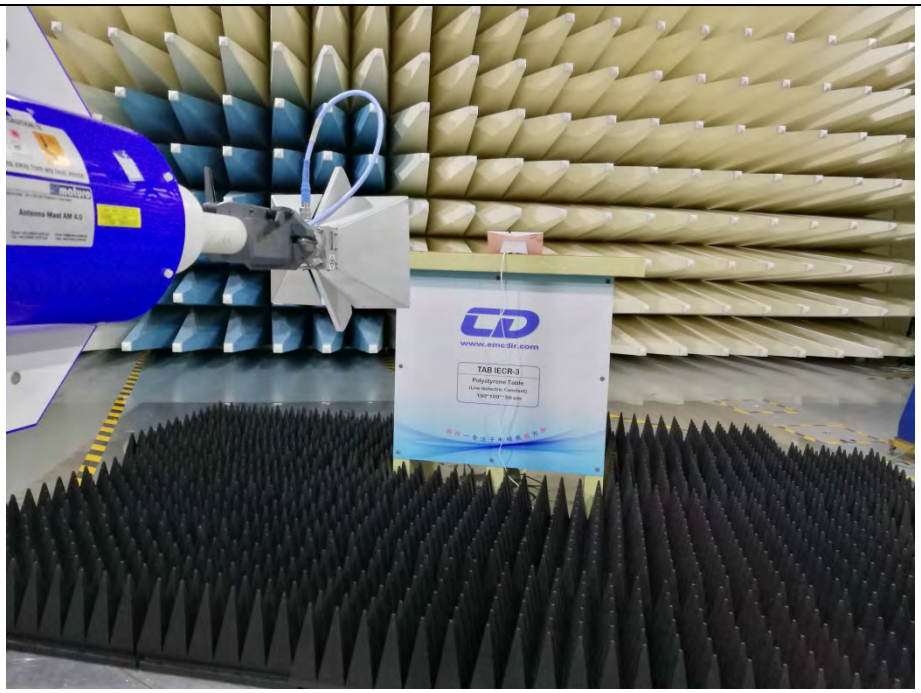


DFS Test setup



Spurious Radiated Emissions Test setup (below 30MHz)

Spurious Radiated Emissions Test setup (30MHz~1GHz)




Spurious Radiated Emissions Test setup (>1GHz)

Conducted Emissions Test Setup (with charger)

---End of Test Report---