Emissions above 26.5GHz are attenuated more than 20dB below the permissible limits and test data are not reported.

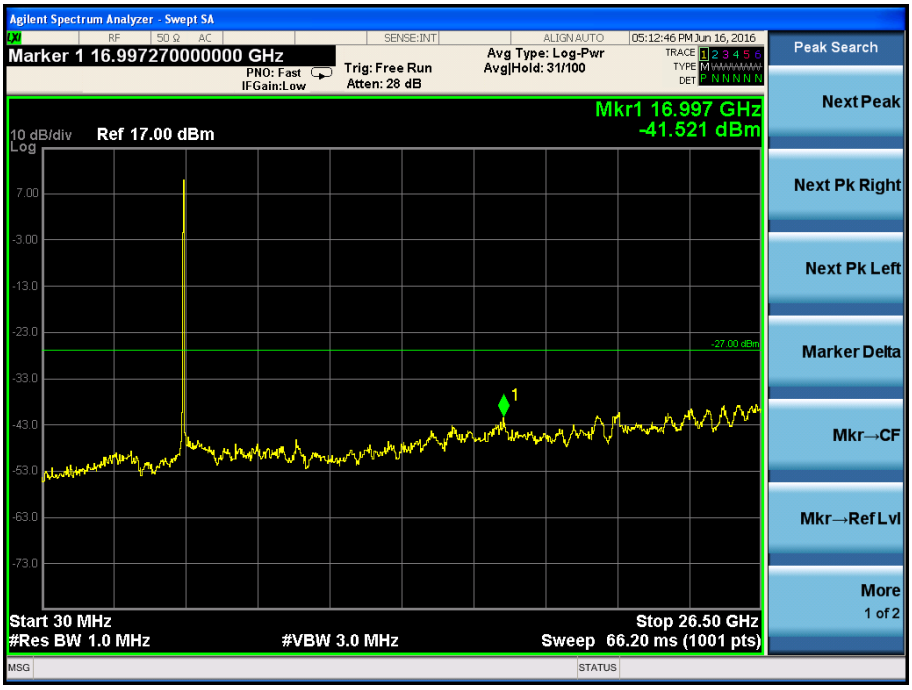
Antenna 1

802.11a

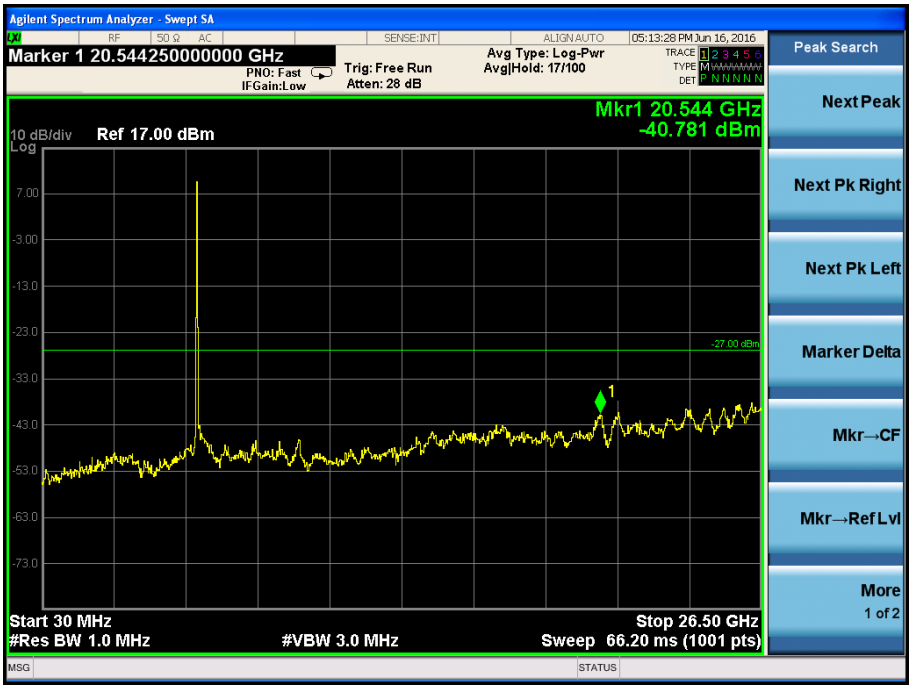
5180MHz

5200MH

5240MHz

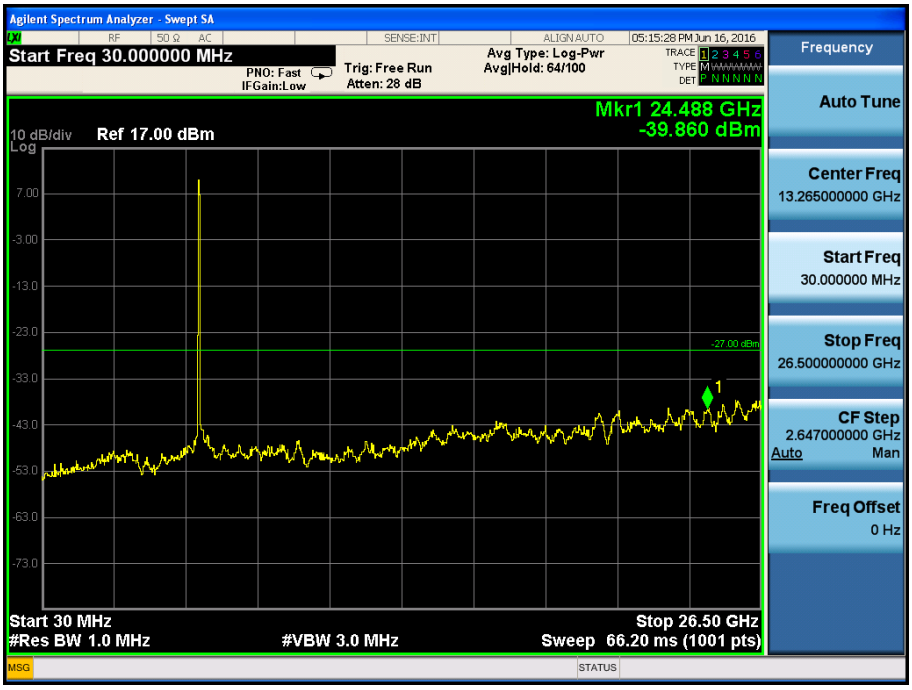


5745MHz



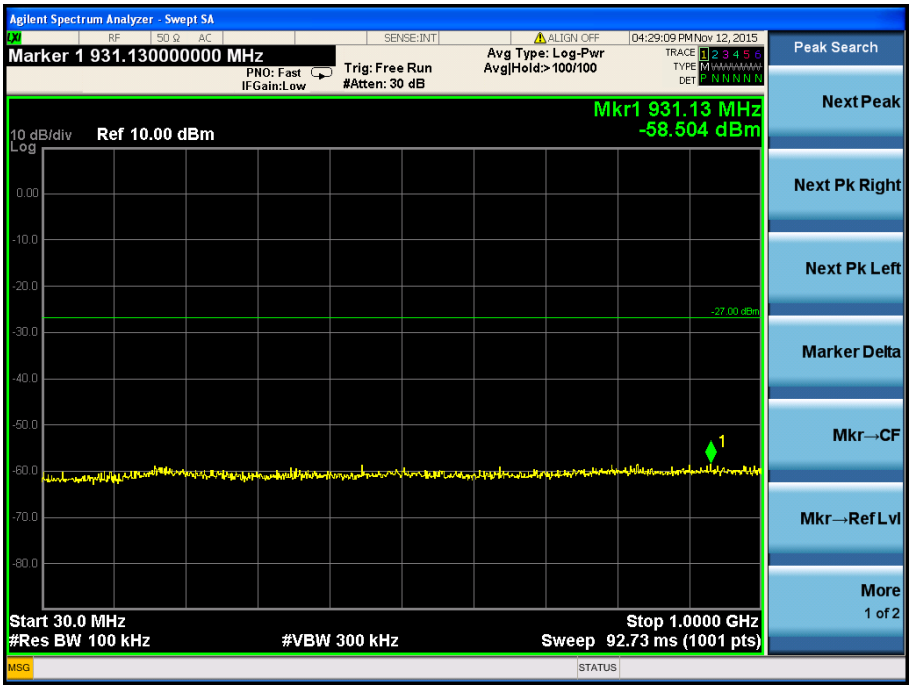
5785MHz

5825MHz

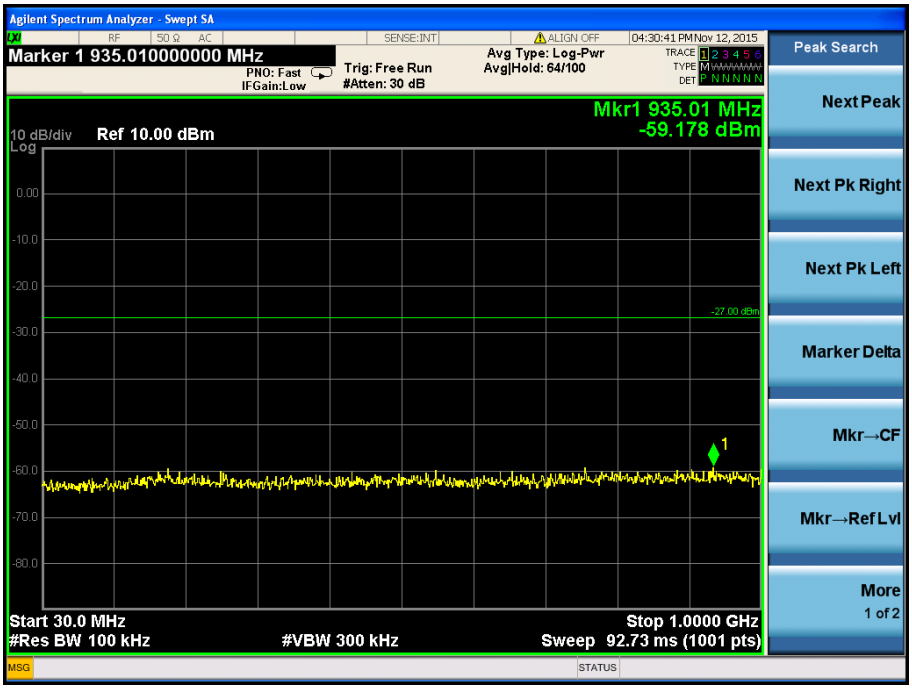


802.11n-HT20

5180MHz

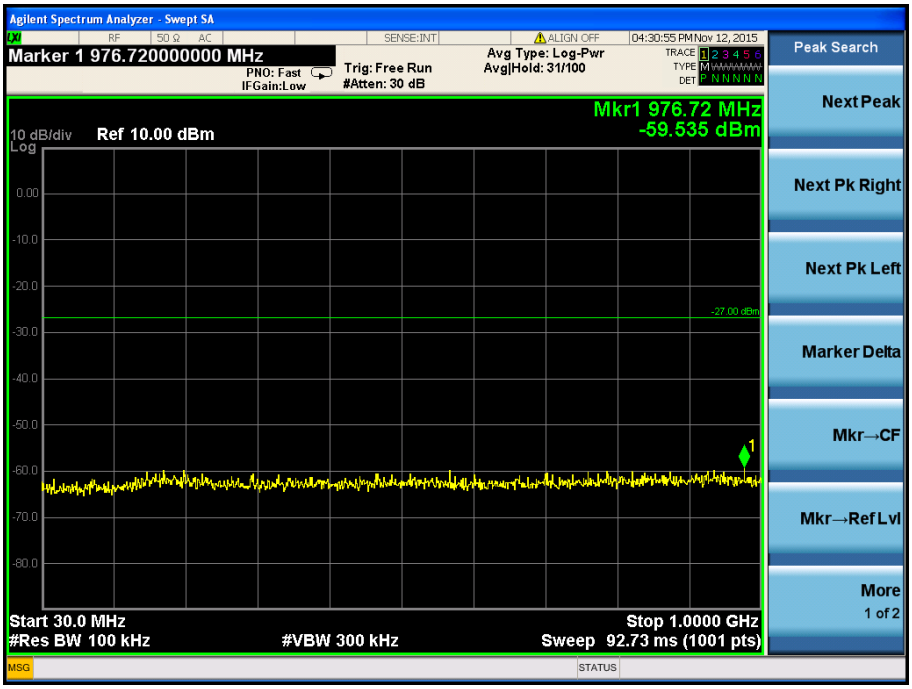


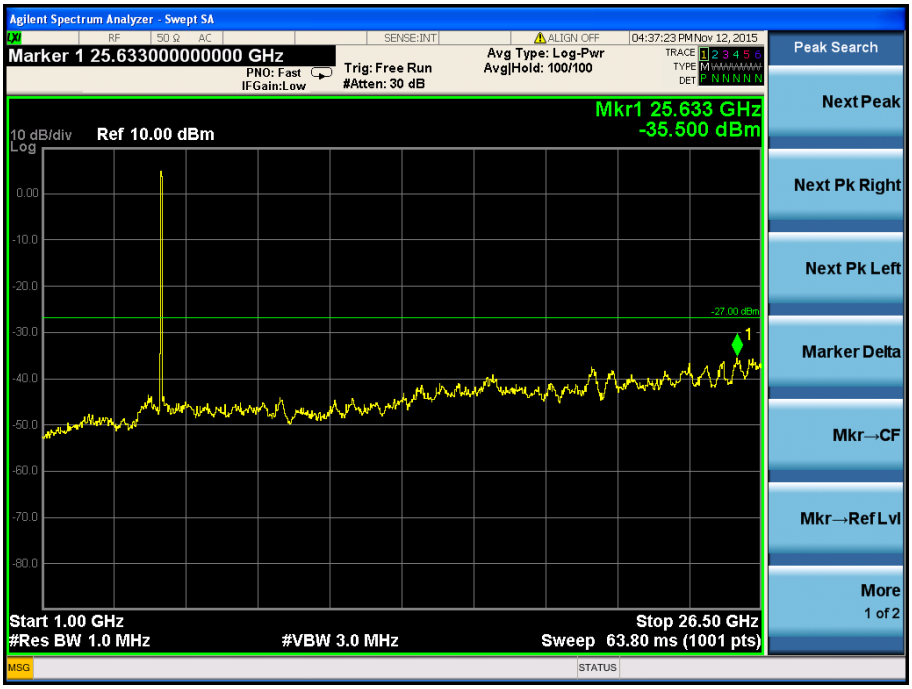
5200MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 935.010000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 64/100
04:30:41 PM Nov 12, 2015
Mkr1 935.01 MHz
-59.178 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

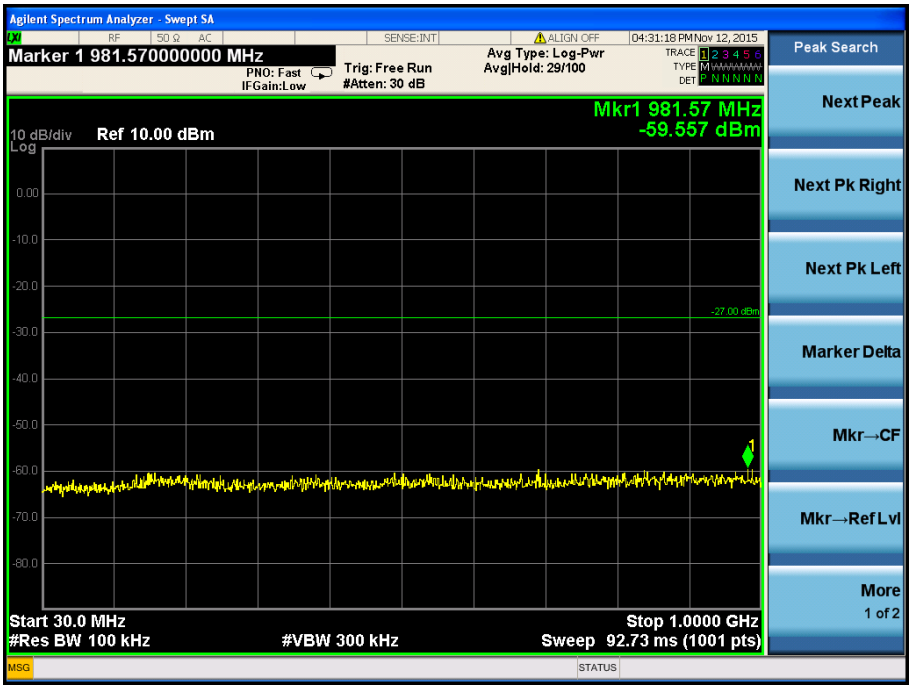

Agilent Spectrum Analyzer - Swept SA
Marker 1 21.221500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 85/100
04:36:40 PM Nov 12, 2015
Mkr1 21.222 GHz
-36.613 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

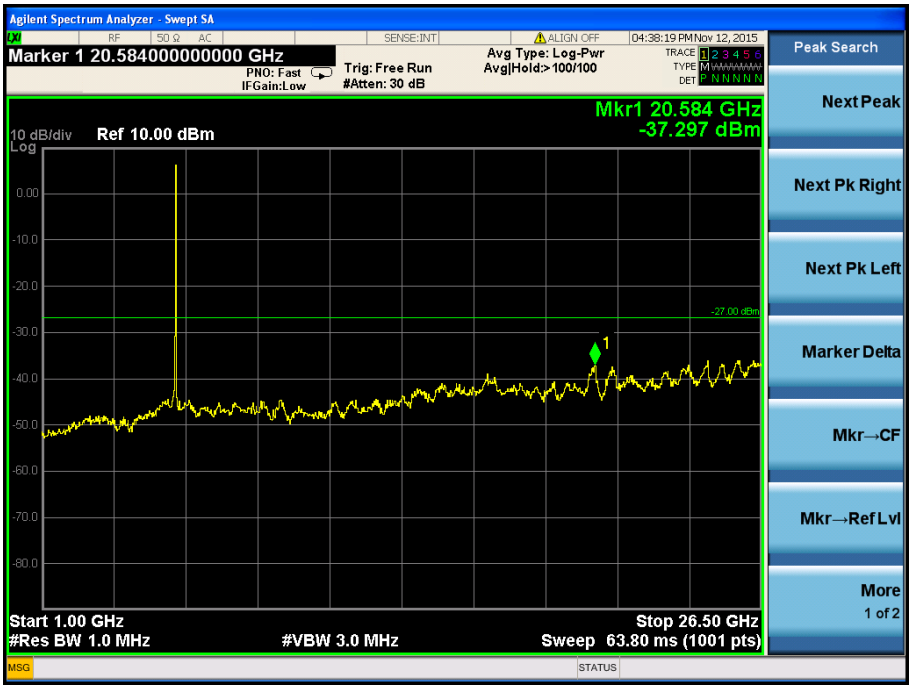
5240MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 976.720000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 31/100
04:30:55 PM Nov 12, 2015
Mkr1 976.72 MHz
-59.535 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

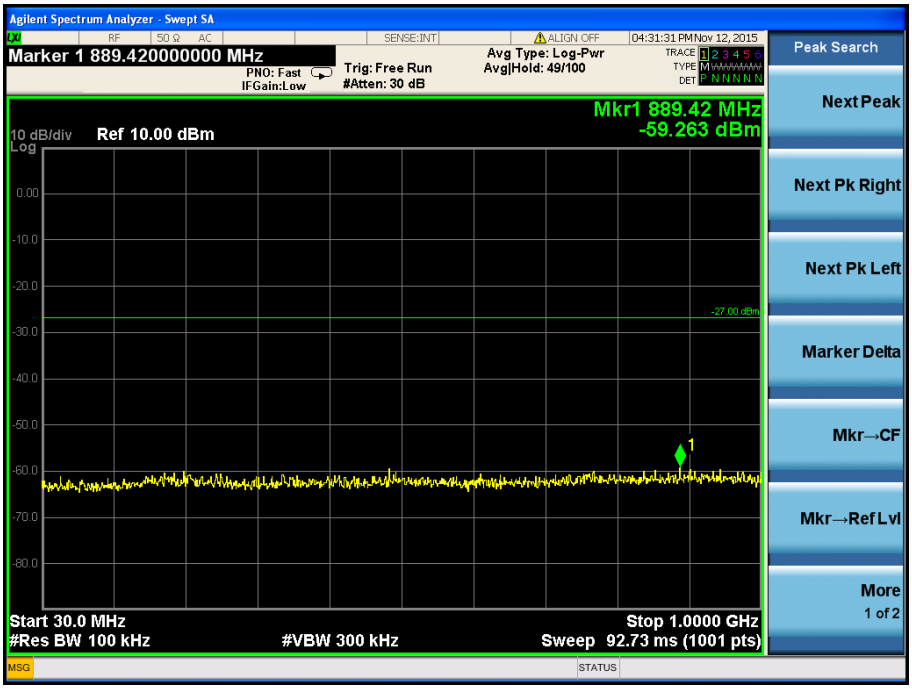

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.633000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
04:37:23 PM Nov 12, 2015
Mkr1 25.633 GHz
-35.500 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

5745MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 981.570000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 29/100
04:31:18 PM Nov 12, 2015
Mkr1 981.57 MHz
-59.557 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

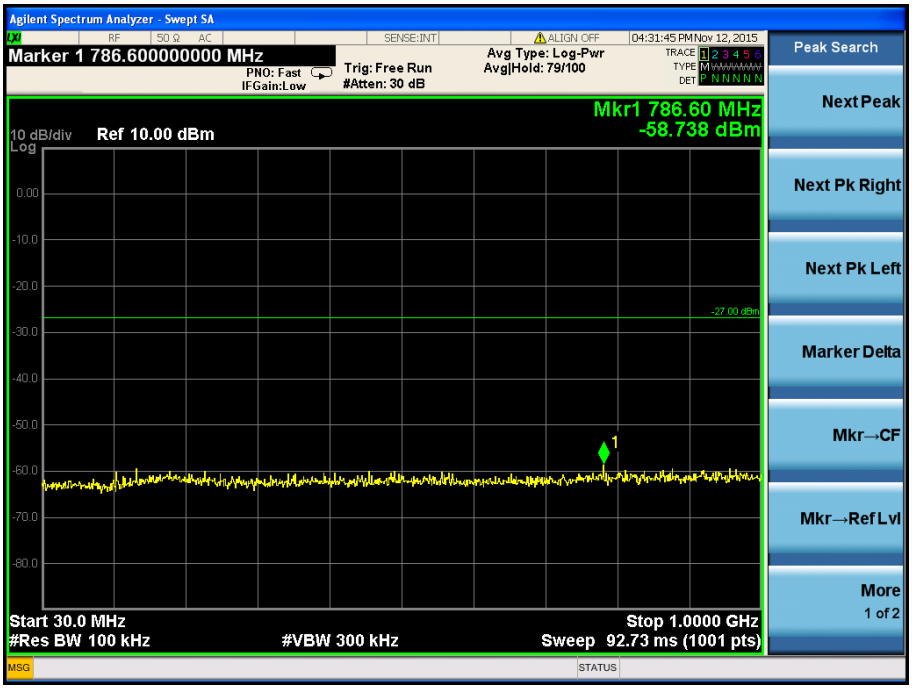

Agilent Spectrum Analyzer - Swept SA
Marker 1 20.584000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:38:19 PM Nov 12, 2015
Mkr1 20.584 GHz
-37.297 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

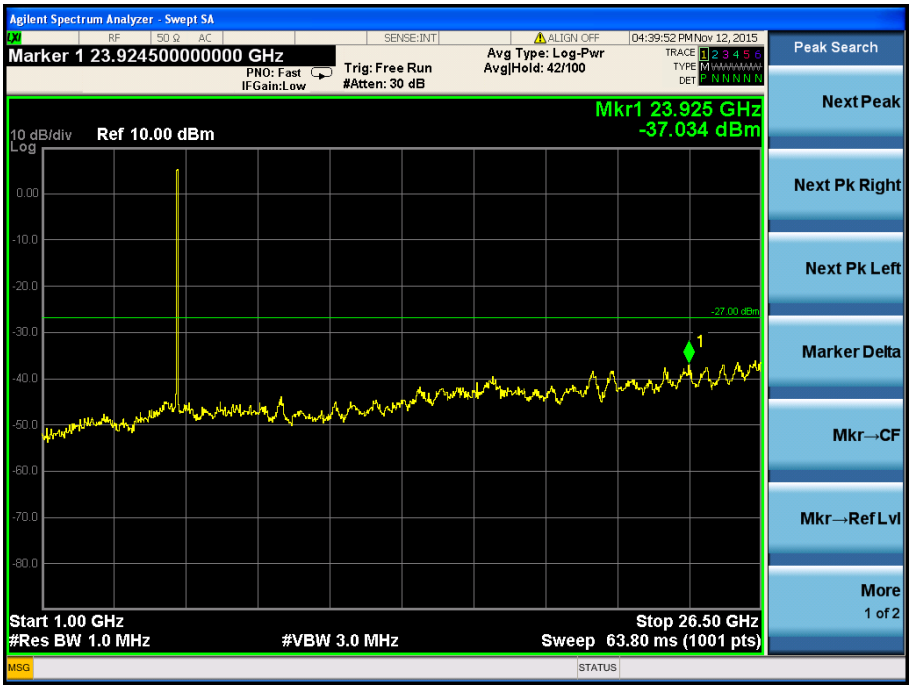
5785MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 889.420000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 49/100
04:31:31 PM Nov 12, 2015
Mkr1 889.42 MHz
-59.263 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Marker 1 25.684000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:39:11 PM Nov 12, 2015
Mkr1 25.684 GHz
-35.351 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

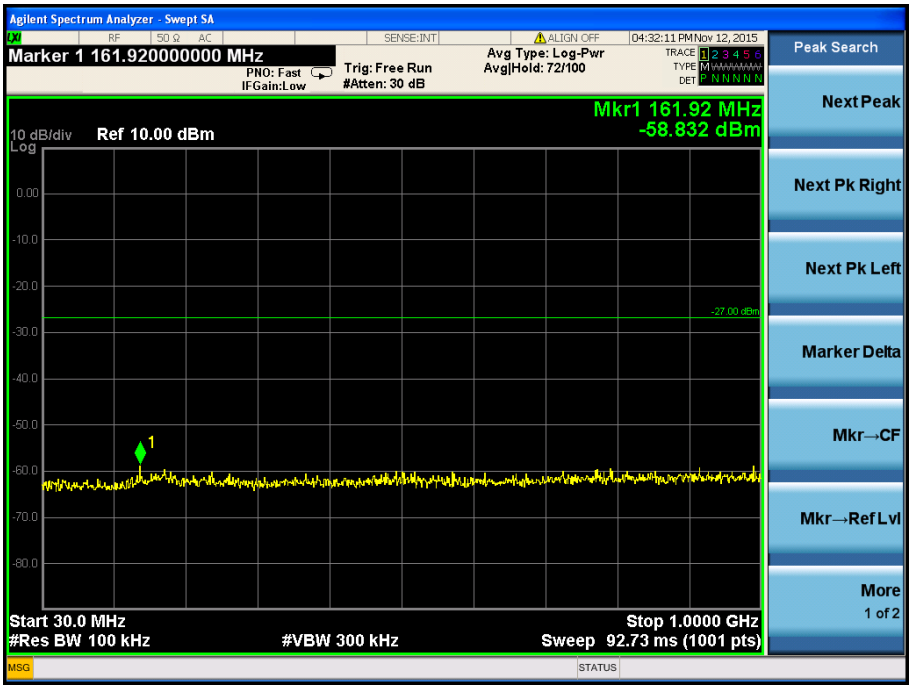
5825MHz

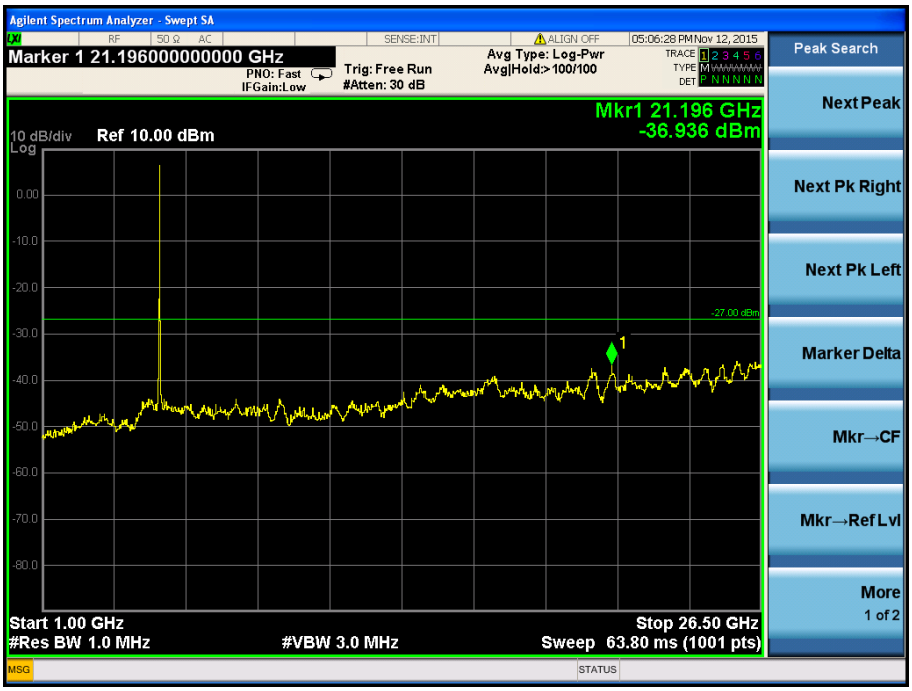

Agilent Spectrum Analyzer - Swept SA
Marker 1 786.600000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 79/100
04:31:45 PM Nov 12, 2015
Mkr1 786.60 MHz
-58.738 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Marker 1 23.924500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 42/100
04:39:52 PM Nov 12, 2015
Mkr1 23.925 GHz
-37.034 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

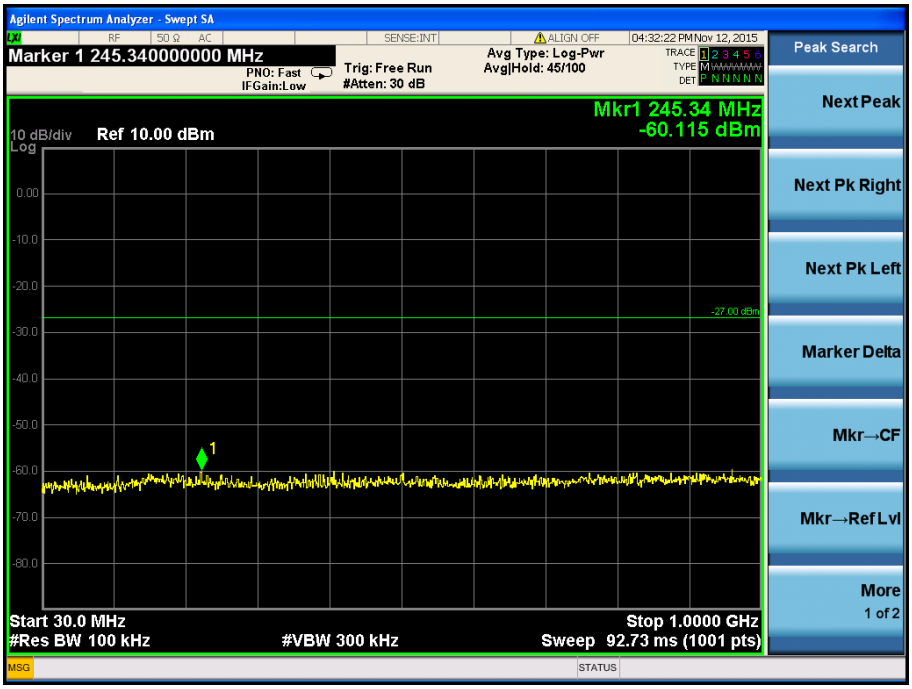
802.11n-HT40

5190MHz



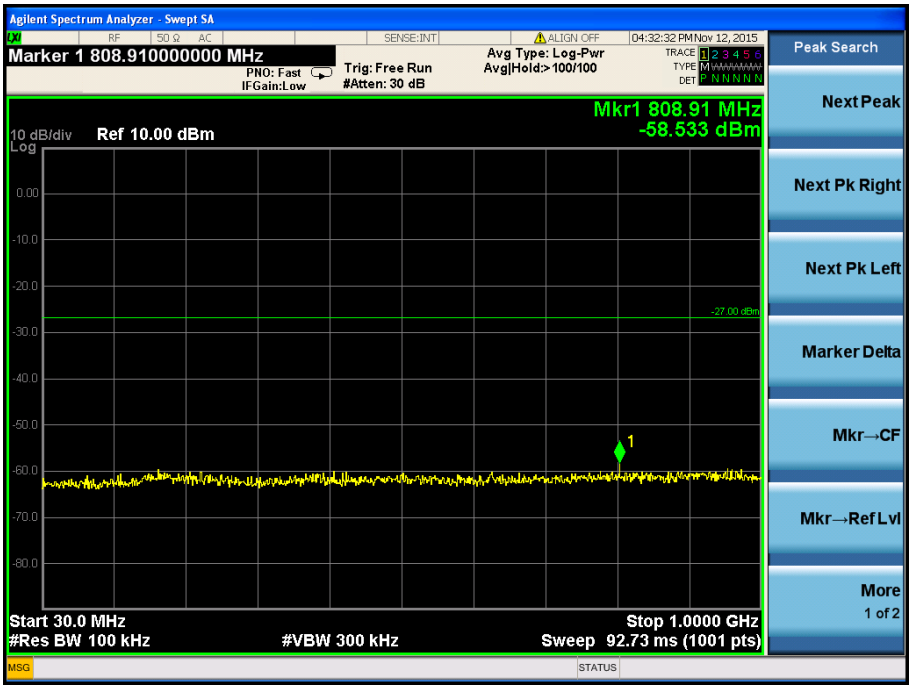


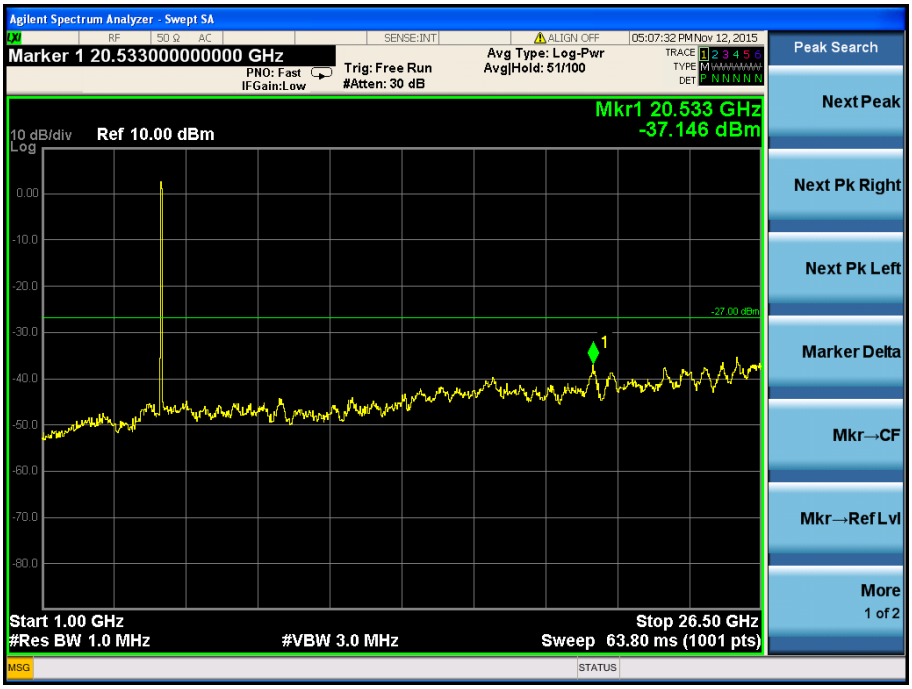
5230MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 245.340000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 45/100
04:32:22 PM Nov 12, 2015
Mkr1 245.34 MHz
-60.115 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

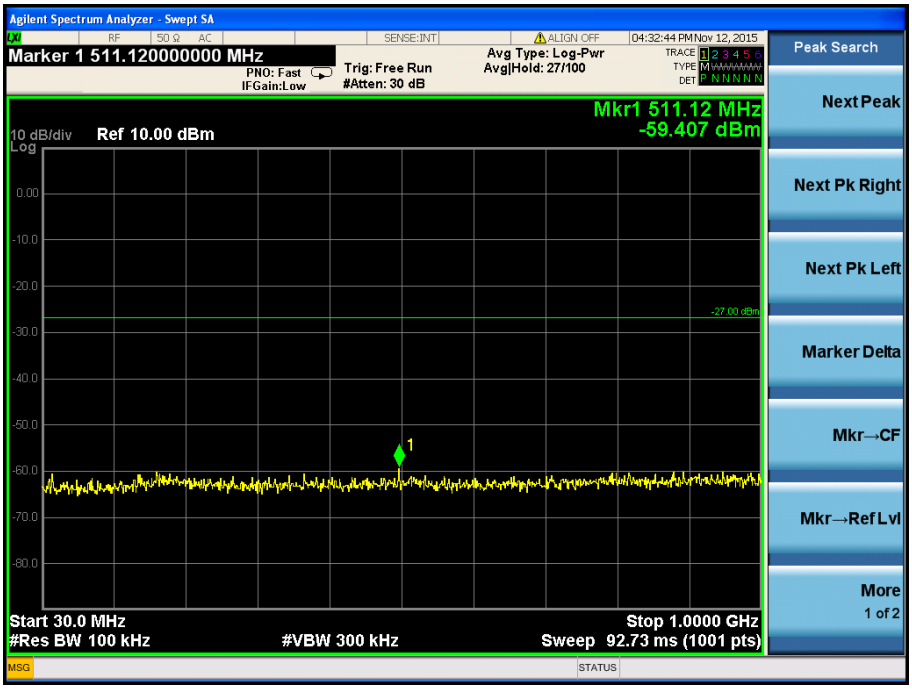

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.097500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 50/100
05:07:00 PM Nov 12, 2015
Mkr1 25.098 GHz
-37.467 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

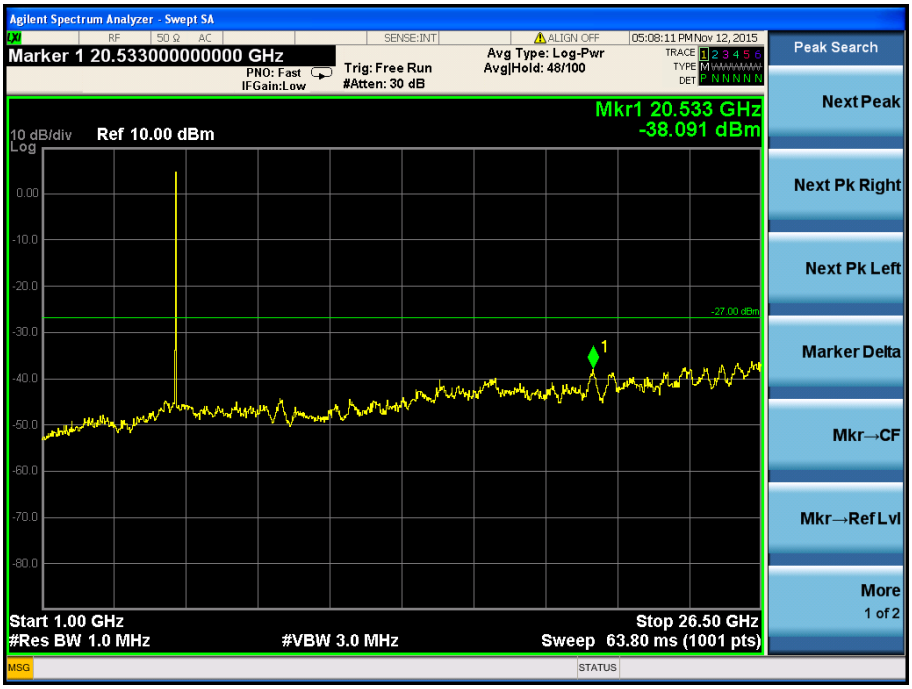
5755MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 808.910000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:32:32 PM Nov 12, 2015
Mkr1 808.91 MHz
-58.533 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Marker 1 20.533000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 51/100
05:07:32 PM Nov 12, 2015
Mkr1 20.533 GHz
-37.146 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

5795MHz

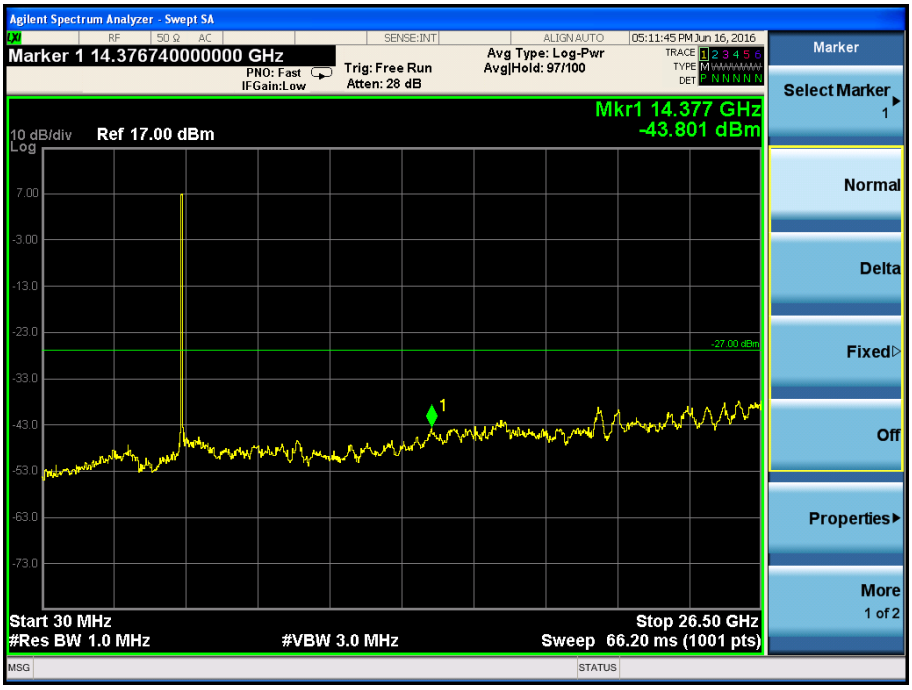

Agilent Spectrum Analyzer - Swept SA
Marker 1 511.120000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 27/100
04:32:44 PM Nov 12, 2015
Mkr1 511.12 MHz
-59.407 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Marker 1 20.533000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 48/100
05:08:11 PM Nov 12, 2015
Mkr1 20.533 GHz
-38.091 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

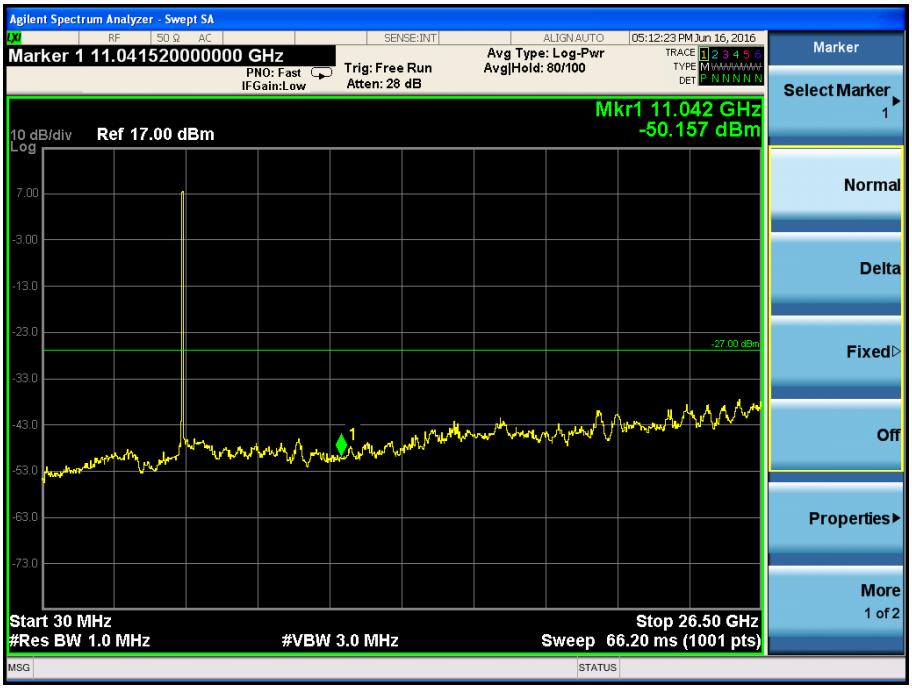
Antenna 2

802.11a

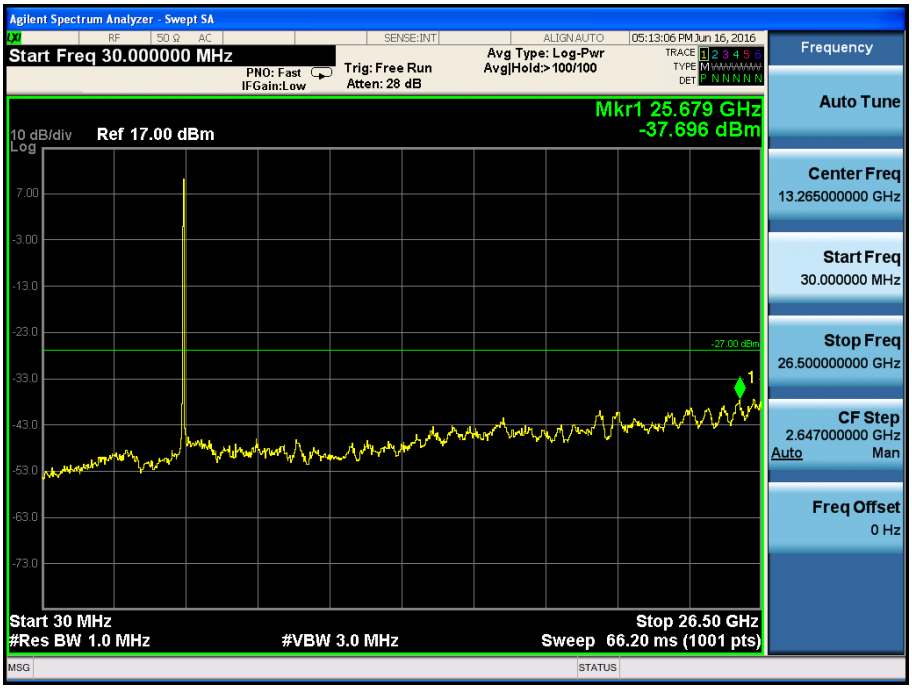
5180MHz



5200MHz

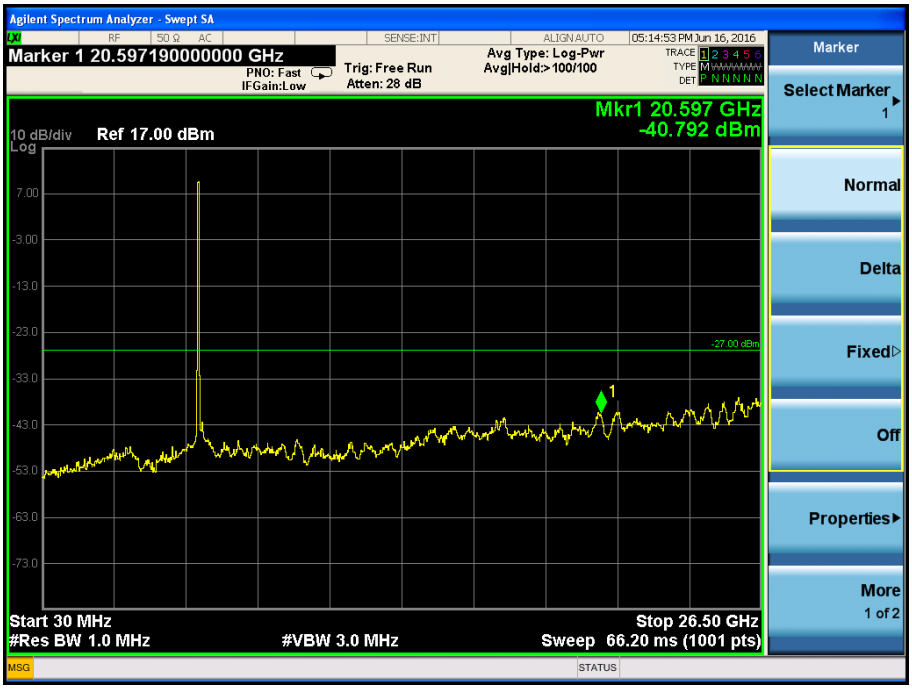


5240MHz



5745MHz

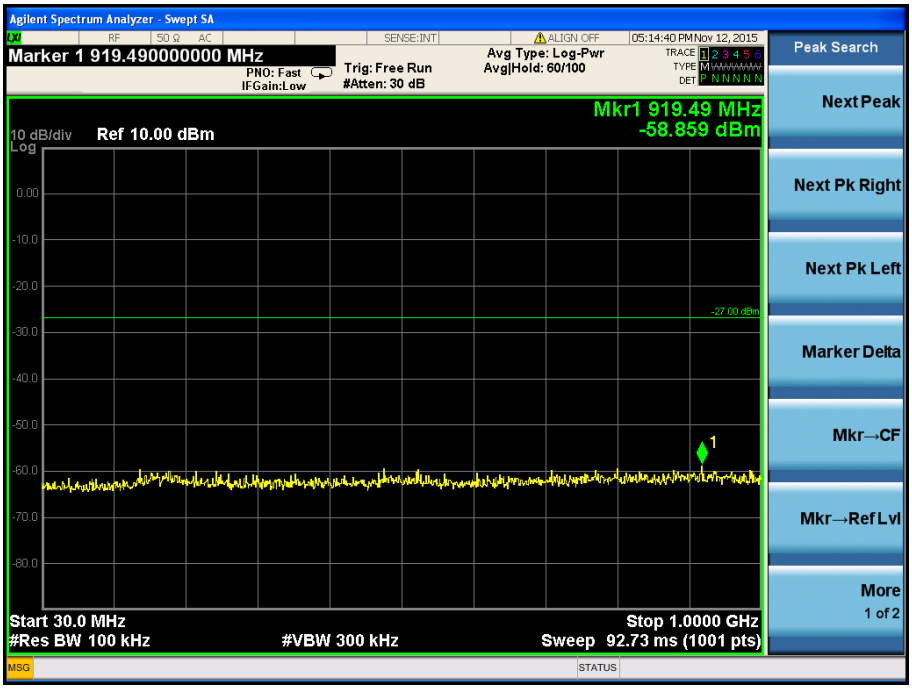
5785MHz



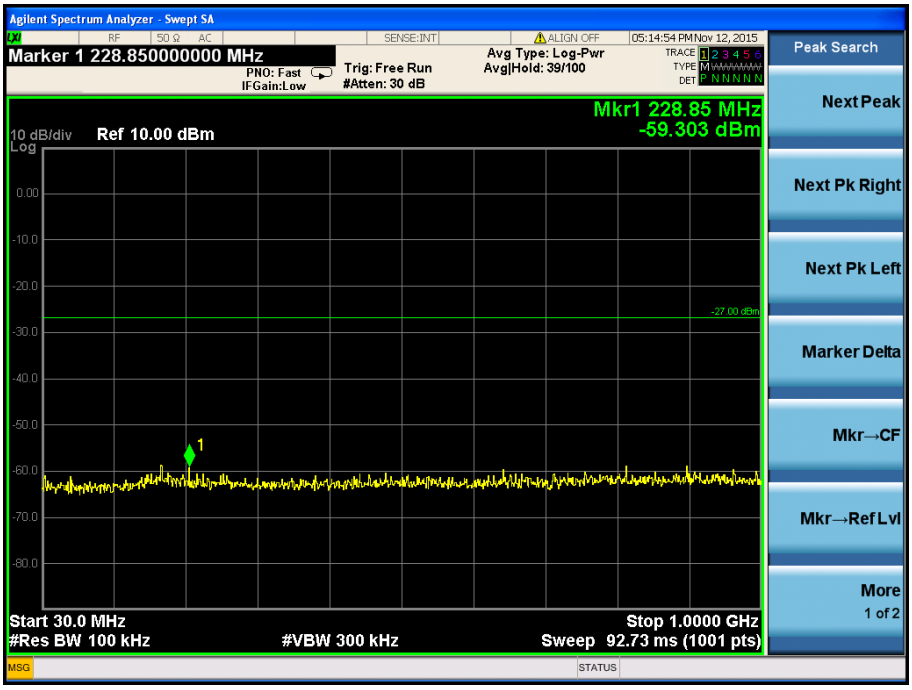
5825MHz

802.11n-HT20

5180MHz

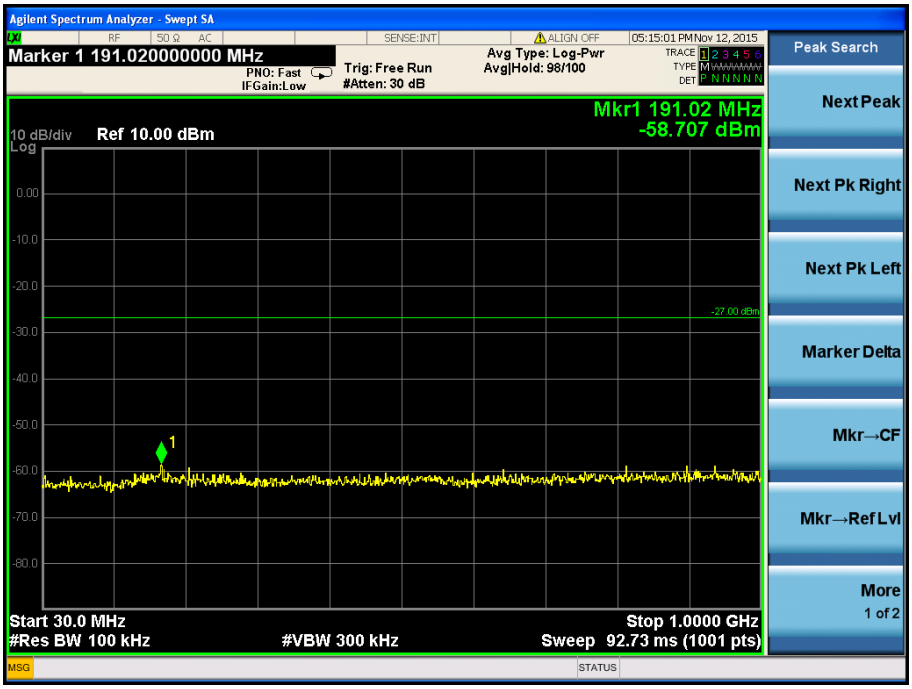


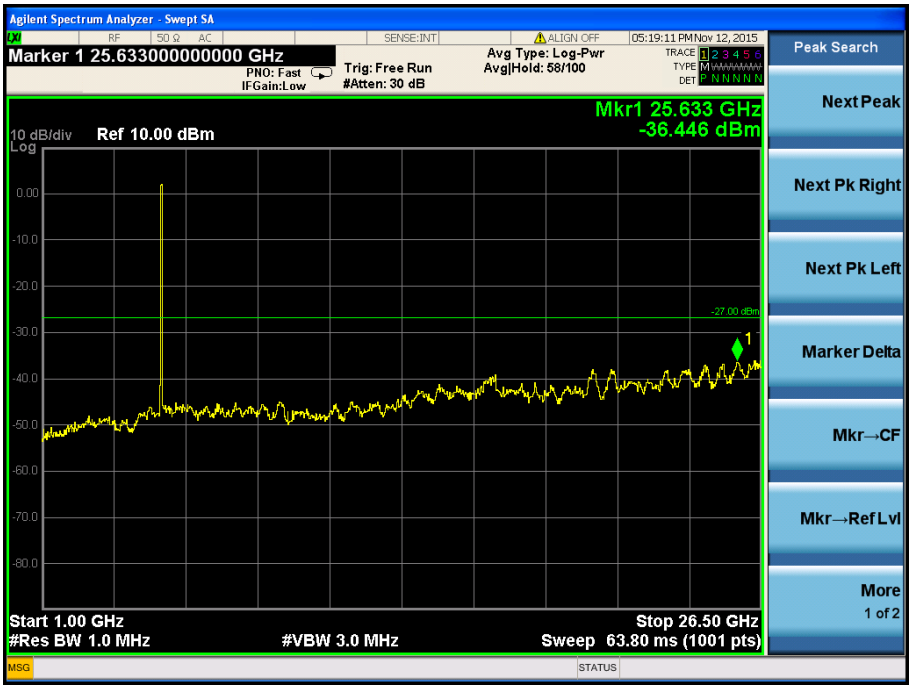
5200MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 228.850000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 39/100
05:14:54 PM Nov 12, 2015
Mkr1 228.85 MHz
-59.303 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

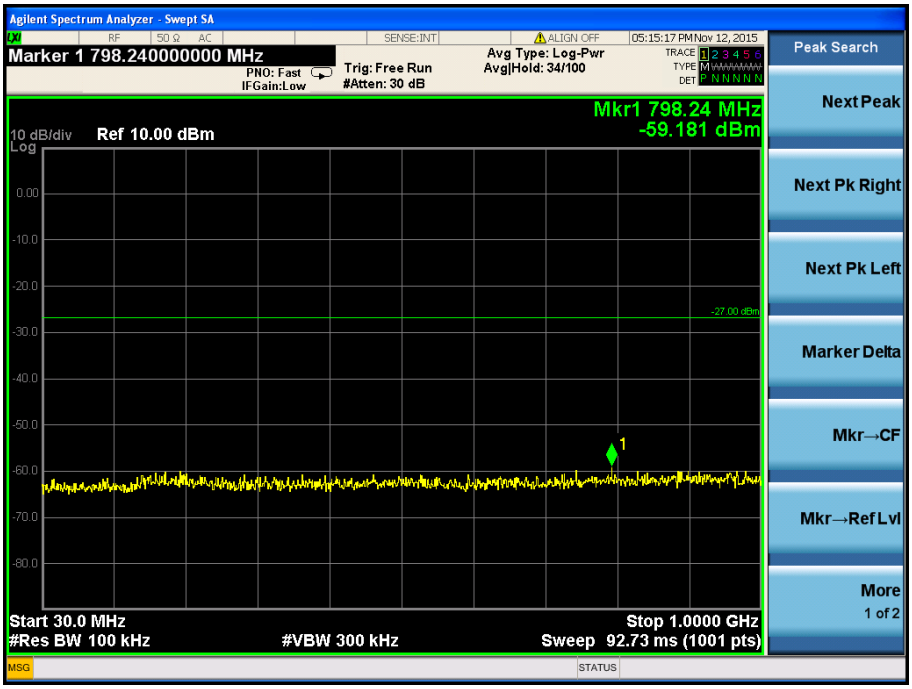

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.633000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 58/100
05:18:42 PM Nov 12, 2015
Mkr1 25.633 GHz
-35.409 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

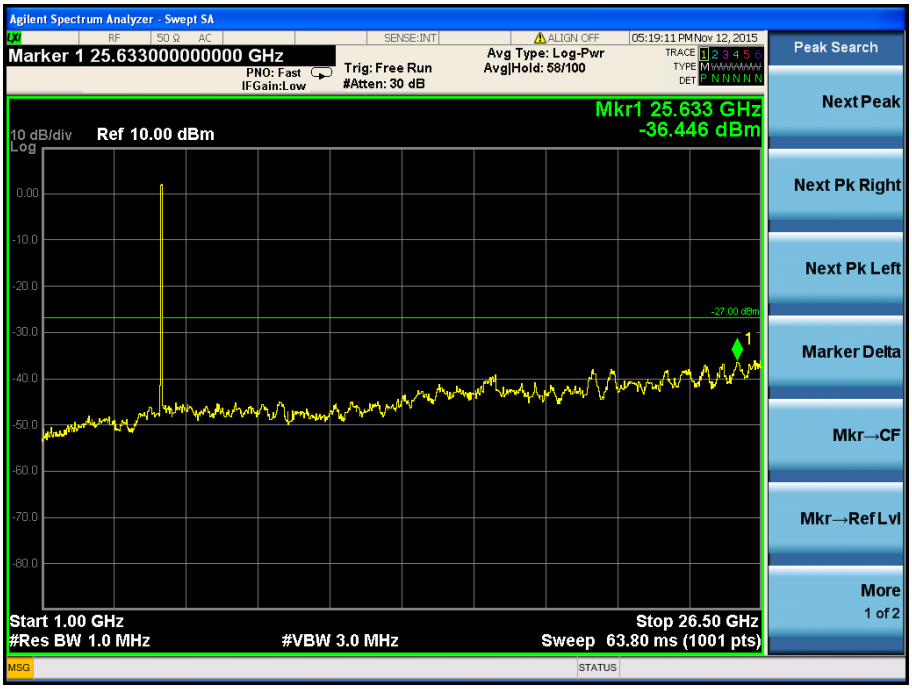
5240MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 191.020000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 98/100
05:15:01 PM Nov 12, 2015
Mkr1 191.02 MHz
-58.707 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

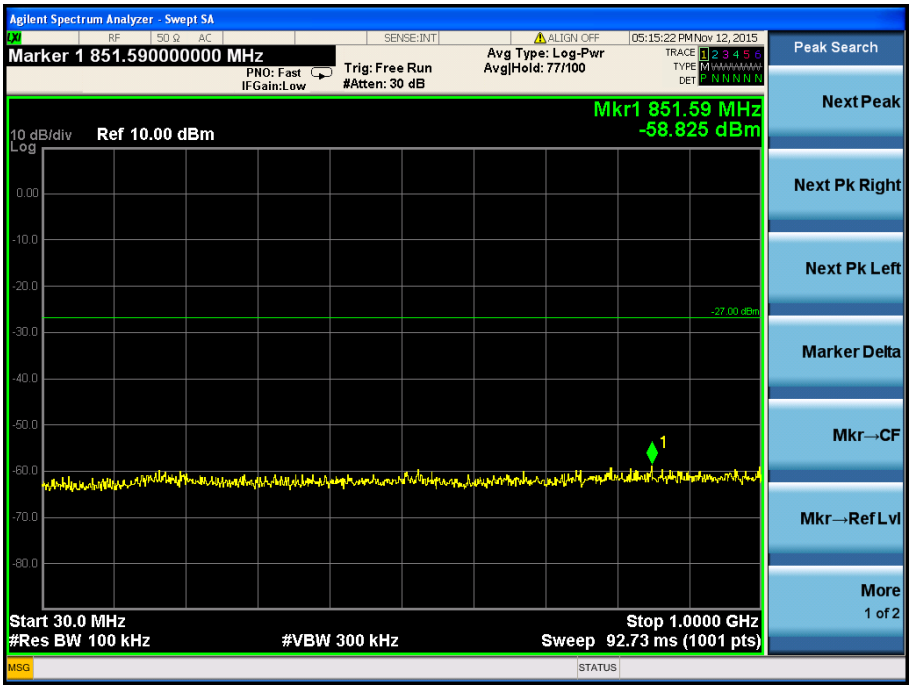

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.633000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 58/100
05:19:11 PM Nov 12, 2015
Mkr1 25.633 GHz
-36.446 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

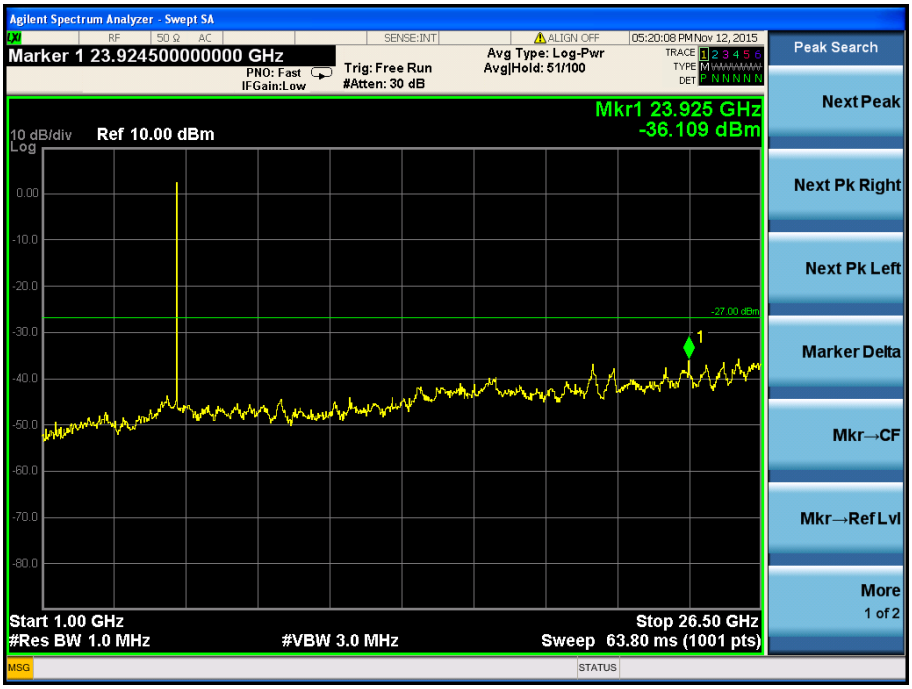
5745MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 798.240000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
05:15:17 PM Nov 12, 2015
Mkr1 798.24 MHz
-59.181 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

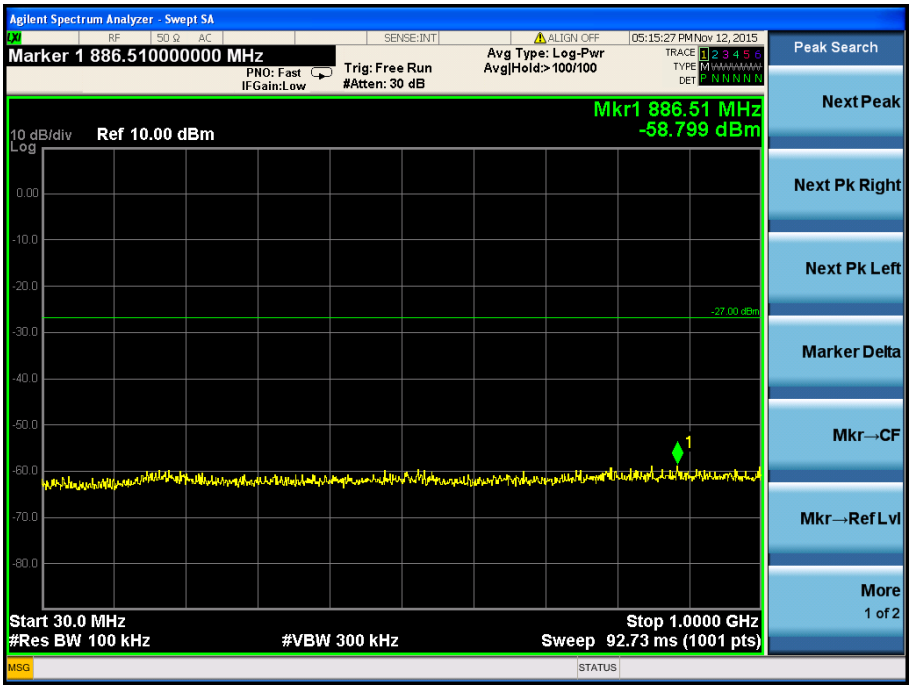

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.633000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 58/100
05:19:11 PM Nov 12, 2015
Mkr1 25.633 GHz
-36.446 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

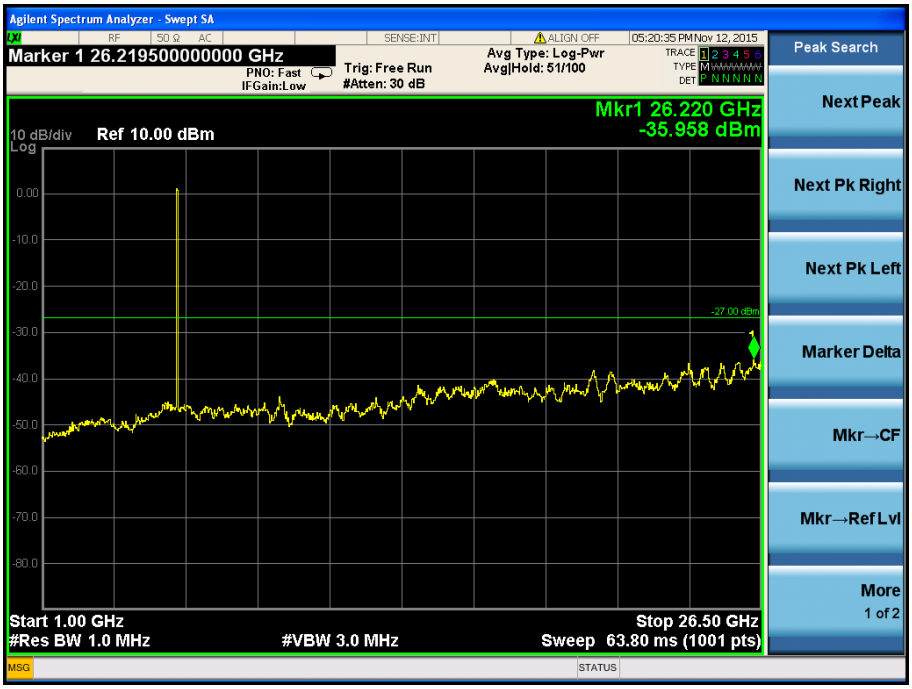
5785MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 851.590000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 77/100
05:15:22 PM Nov 12, 2015
Mkr1 851.59 MHz
-58.825 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 1 23.924500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 51/100
05:20:08 PM Nov 12, 2015
Mkr1 23.925 GHz
-36.109 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

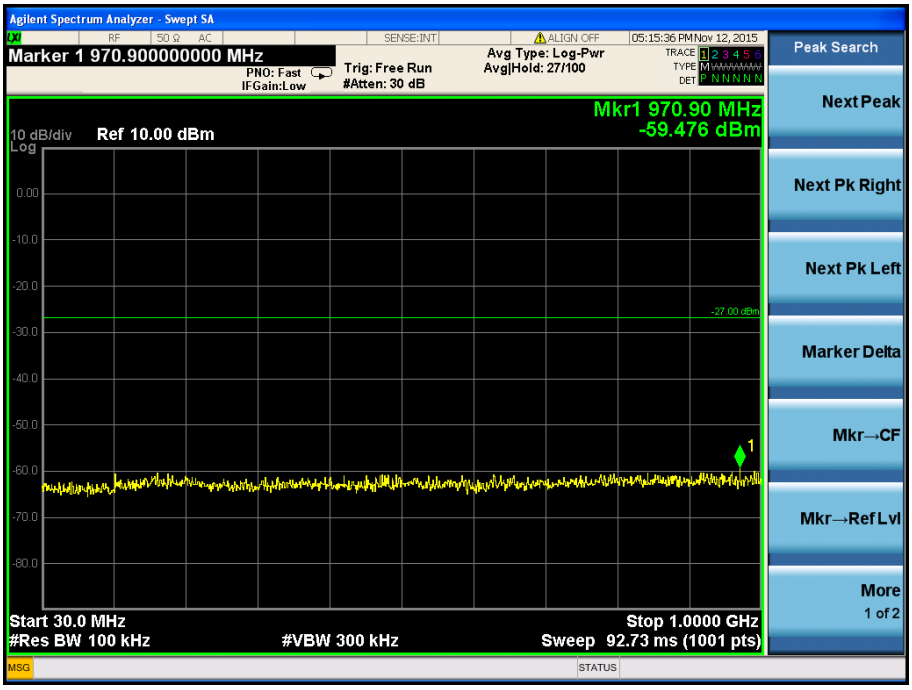
5825MHz

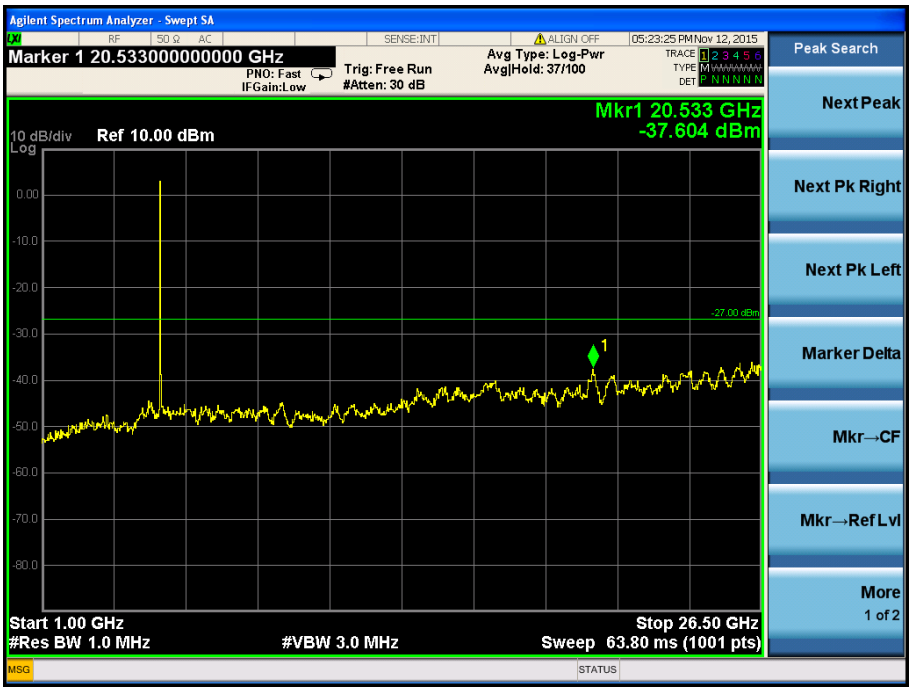

Agilent Spectrum Analyzer - Swept SA
Marker 1 886.510000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
05:15:27 PM Nov 12, 2015
Mkr1 886.51 MHz
-58.799 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 1 26.219500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 51/100
05:20:35 PM Nov 12, 2015
Mkr1 26.220 GHz
-35.958 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

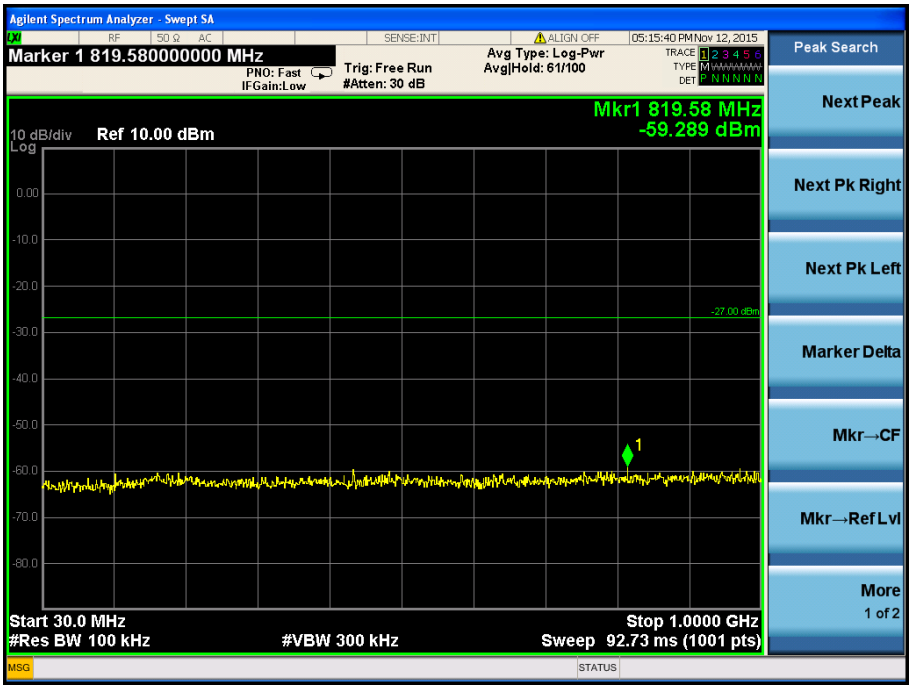
802.11n-HT40

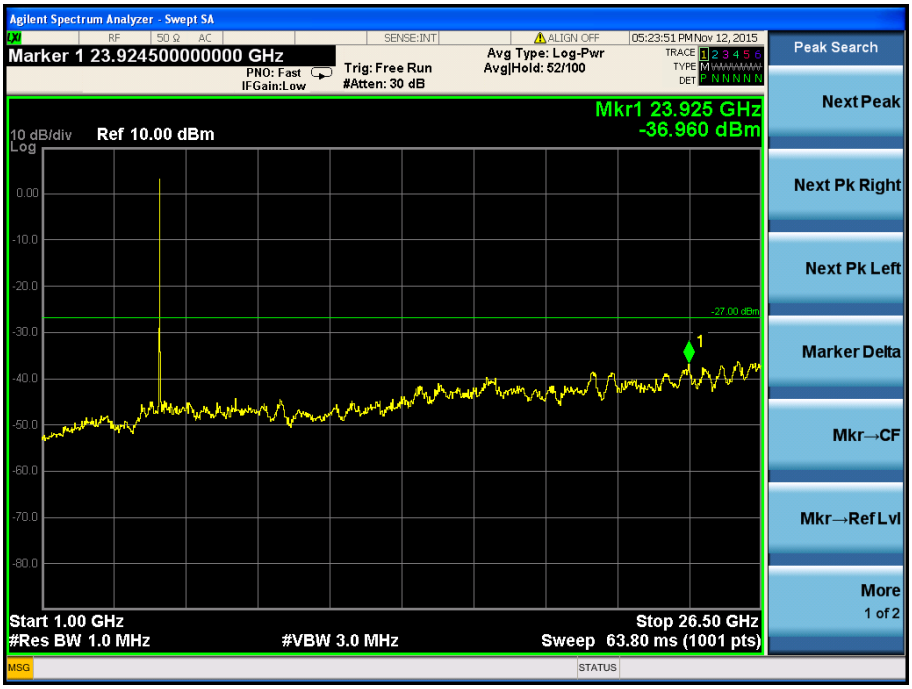
5190MHz



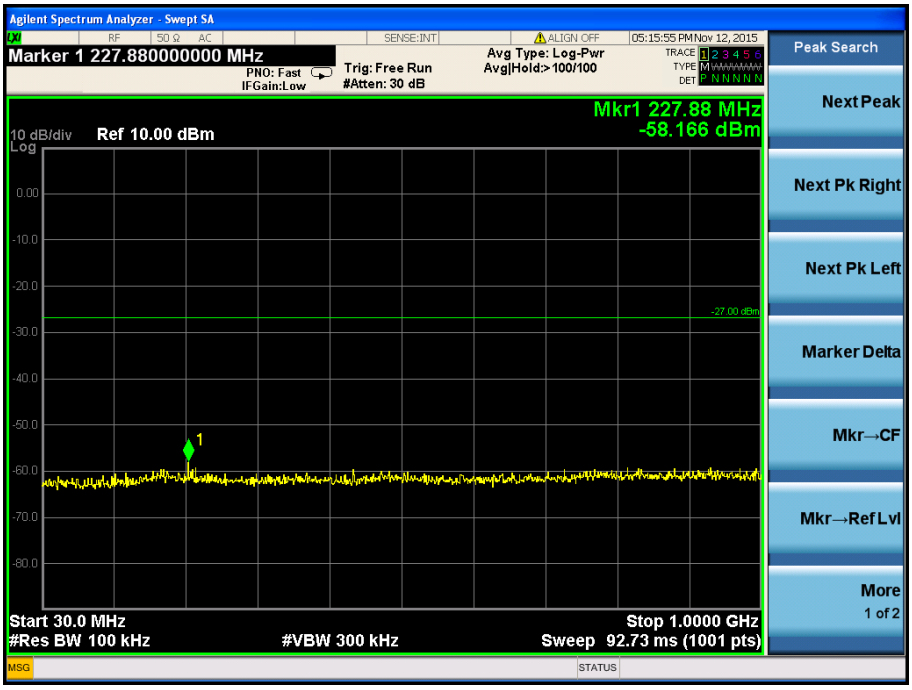


5230MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 819.580000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 61/100
05:15:40 PM Nov 12, 2015
Mkr1 819.58 MHz
-59.289 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

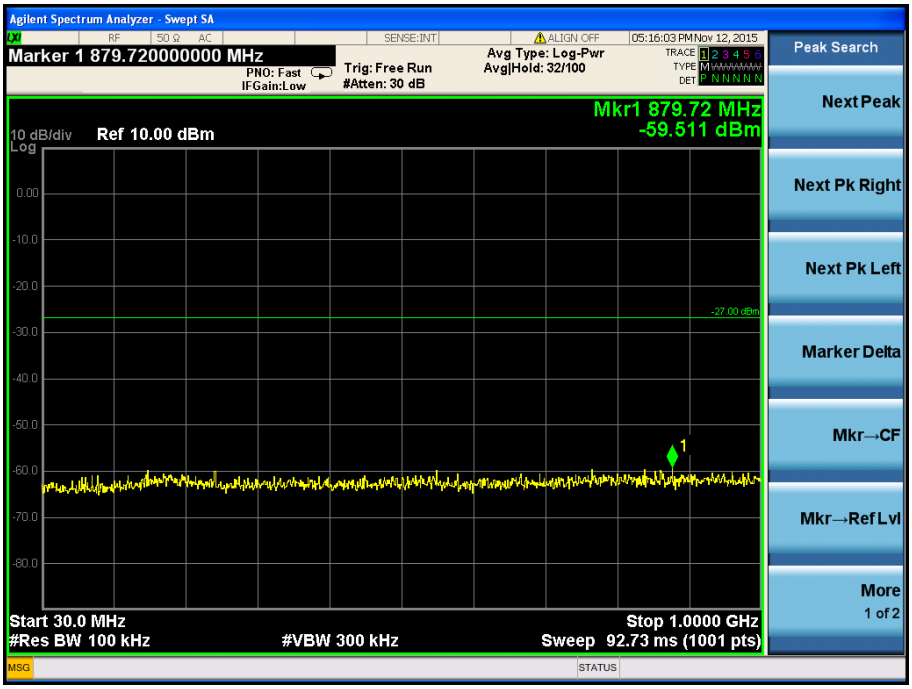

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.924500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 52/100
05:23:51 PM Nov 12, 2015
Mkr1 23.925 GHz
-36.960 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

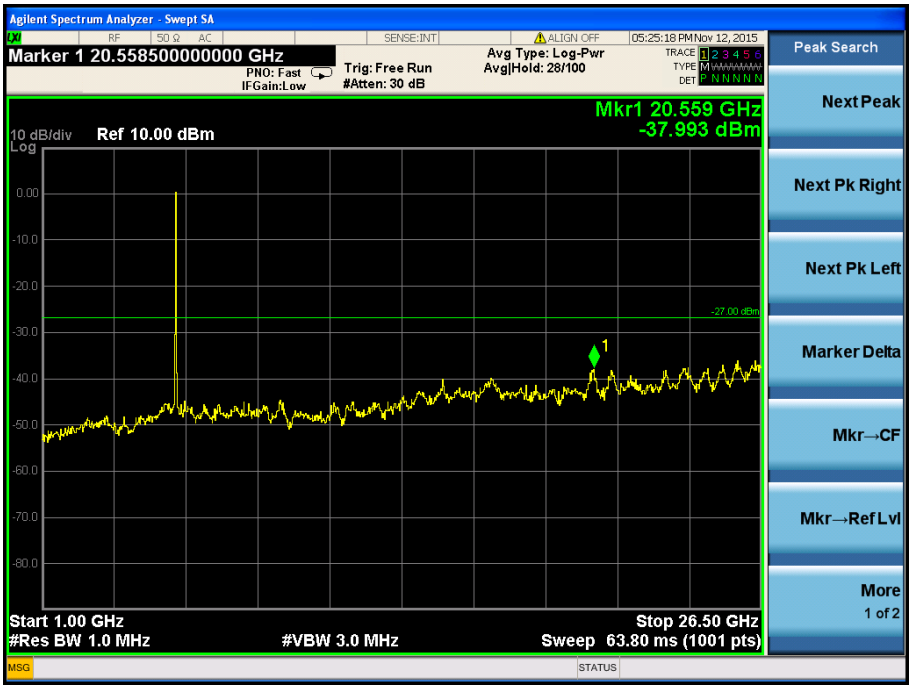
5755MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 227.880000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
05:15:55 PM Nov 12, 2015
Mkr1 227.88 MHz
-58.166 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Marker 1 26.168500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 48/100
05:24:53 PM Nov 12, 2015
Mkr1 26.169 GHz
-35.670 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

5795MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 879.720000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
05:16:03 PM Nov 12, 2015
Mkr1 879.72 MHz
-59.511 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.73 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 1 20.558500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 28/100
05:25:18 PM Nov 12, 2015
Mkr1 20.559 GHz
-37.993 dBm
10 dB/div
Log
Ref 10.00 dBm
-27.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 63.80 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

9. Radiated Spurious Emissions

9.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ±5.10 dB.

9.2 Standard Applicable

According to §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.
789033 D02 General UNII Test Procedures New Rules v01
If radiated measurements are performed, field strength is then converted to EIRP as follows:

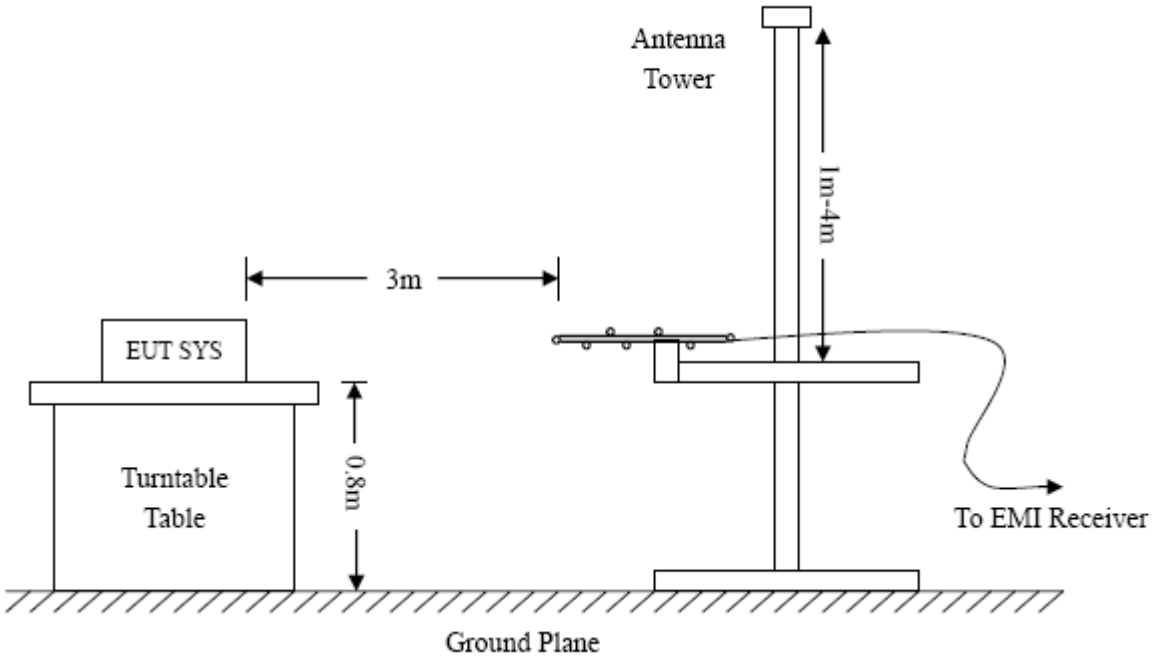
EIRP = ((E*d)^2) / 30

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

9.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.
The spacing between the peripherals was 10 cm.



9.4 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:
RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:
RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – Ampl. Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15 Limit

9.6 Environmental Conditions

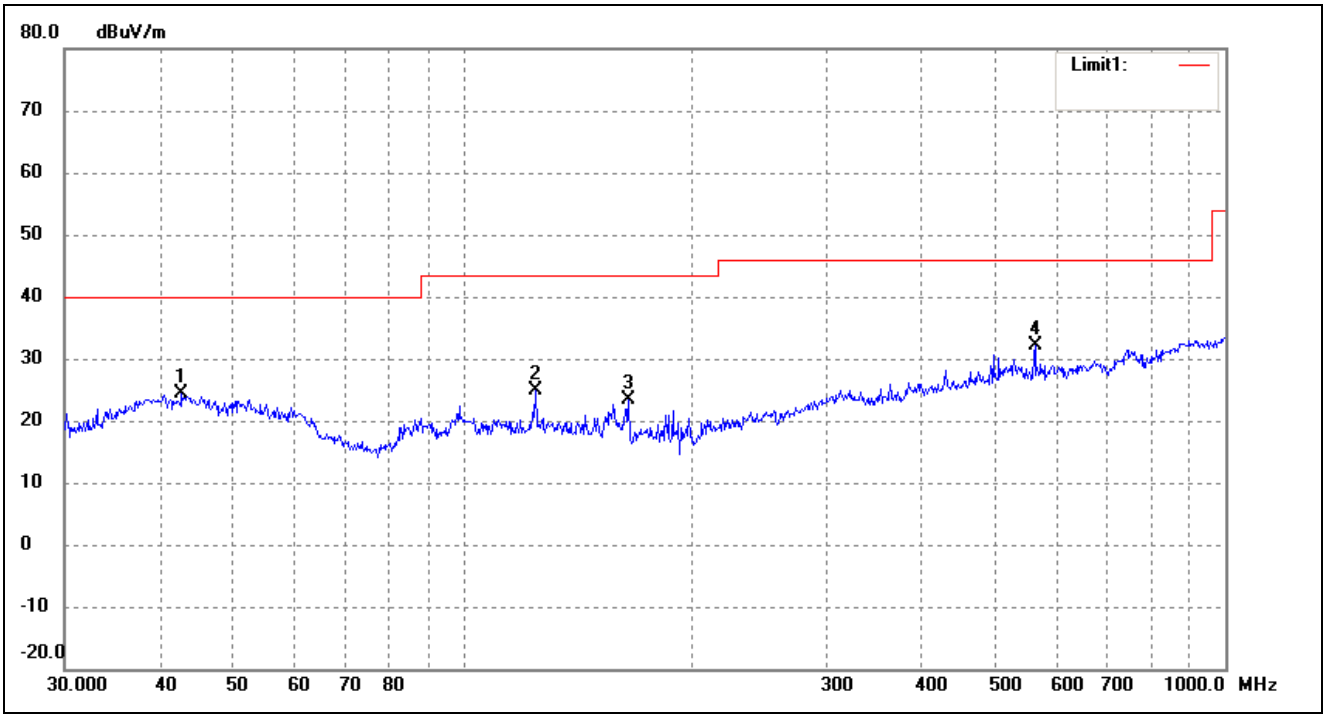
Temperature:	22° C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

9.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.407(b)(6) standards, and had the worst margin of:

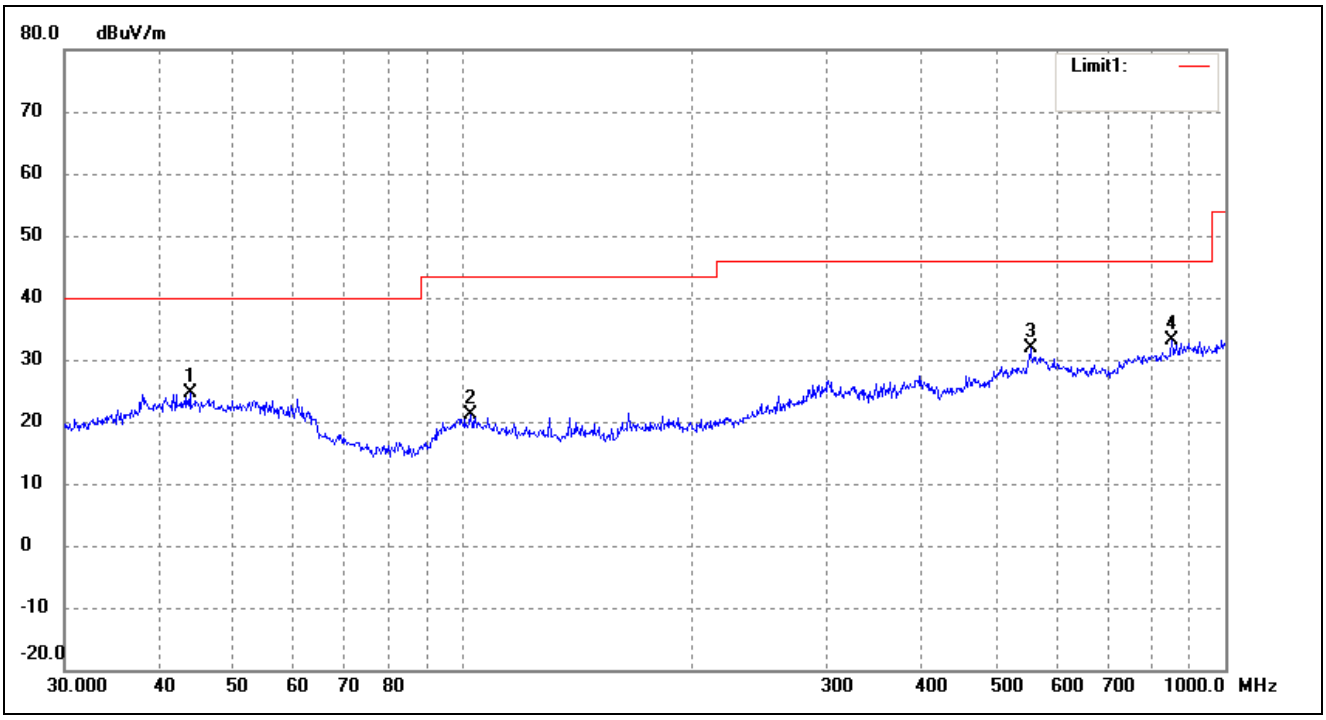
Note: *this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

For 802.11n-HT20(11a and 11n-HT20,11n-HT20 is worst case)
Spurious Emission From 30 MHz to 1 GHz
Test mode: Transmitting Channel 5180MHz
Horizontal



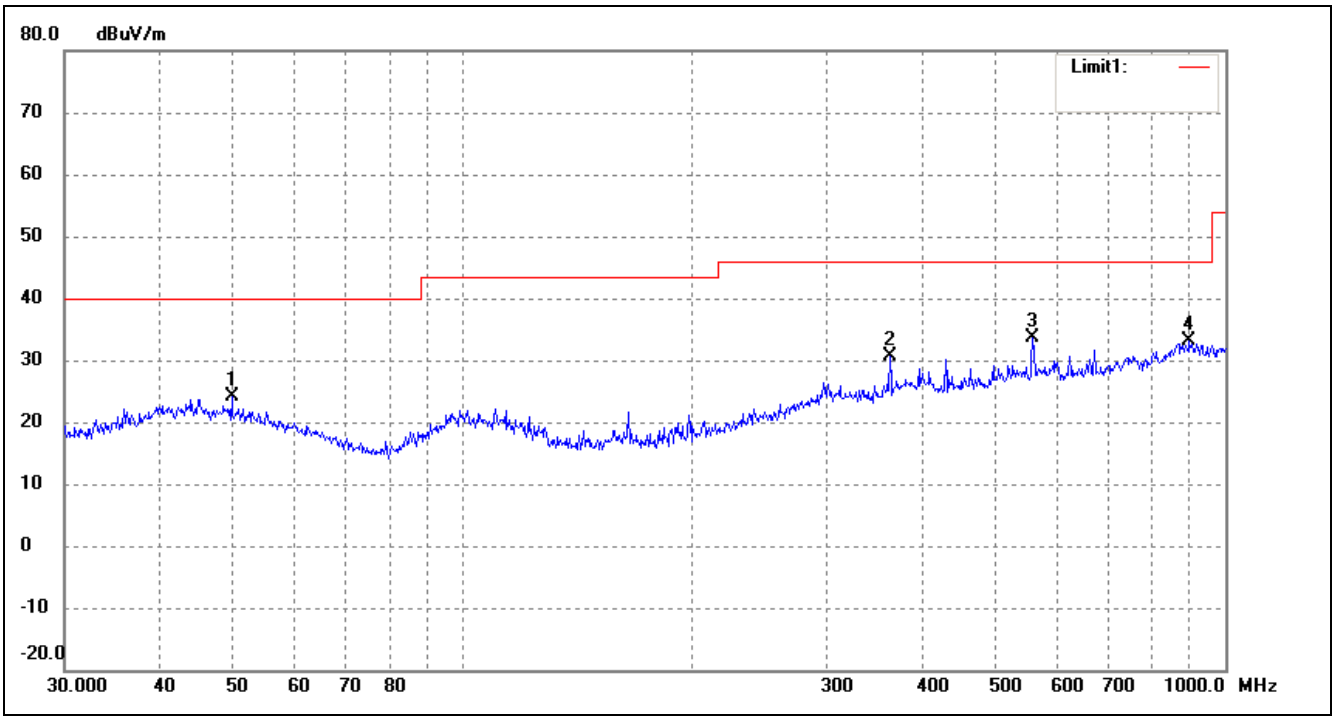
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	42.7496	17.30	6.98	24.28	40.00	-15.72	35	100	peak
2	124.5690	21.12	3.65	24.77	43.50	-18.73	68	100	peak
3	164.9071	20.76	2.65	23.41	43.50	-20.09	105	100	peak
4	562.6624	20.52	11.67	32.19	46.00	-13.81	138	100	peak

Test Specification: *Vertical*



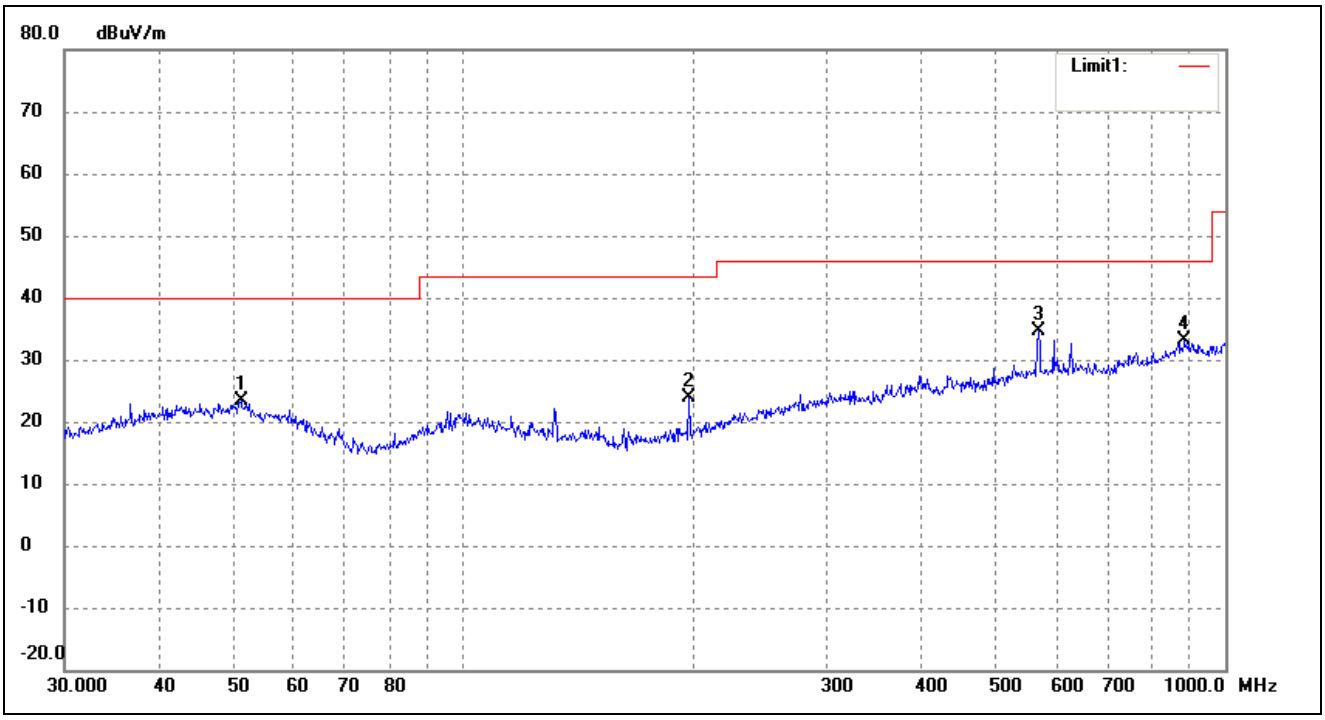
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	43.8119	16.42	8.12	24.54	40.00	-15.46	41	100	peak
2	102.3597	15.15	5.88	21.03	43.50	-22.47	77	100	peak
3	554.8252	20.44	11.46	31.90	46.00	-14.10	114	100	peak
4	851.0353	17.11	15.97	33.08	46.00	-12.92	172	100	peak

Test mode: Transmitting Channel 5200MHz
Horizontal



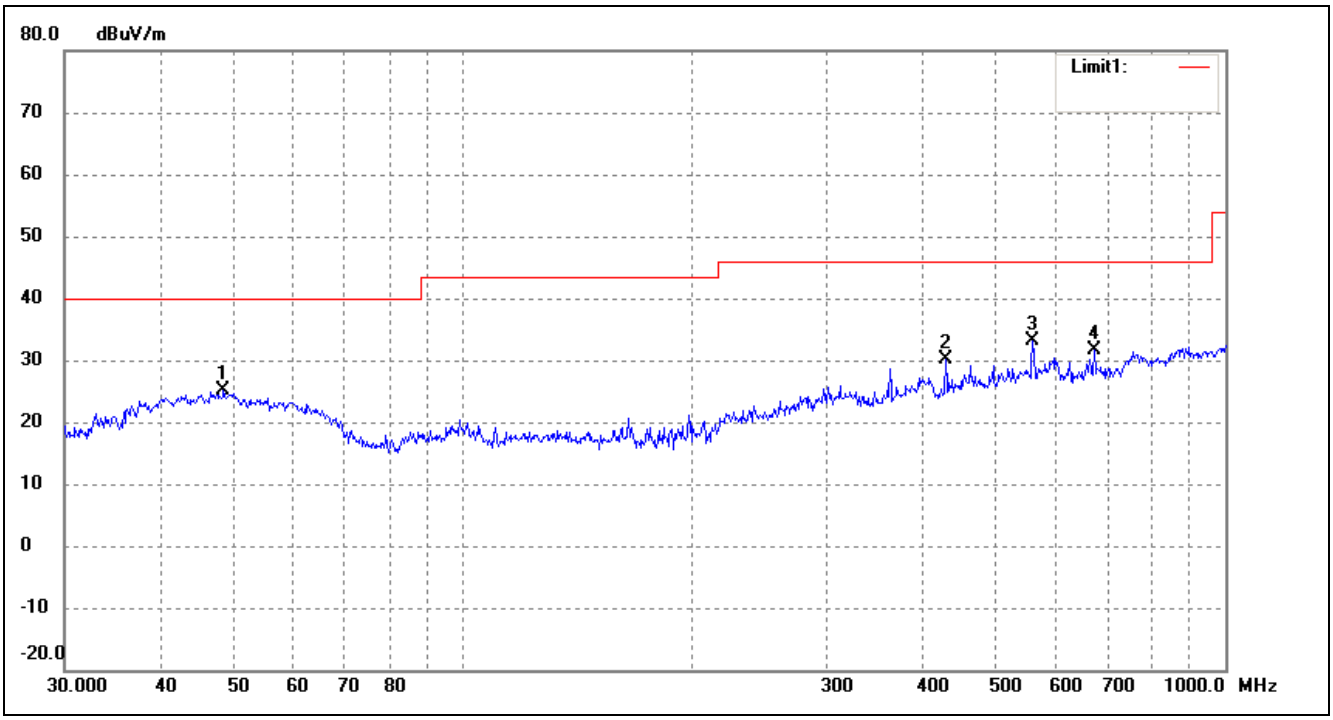
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.7068	17.83	6.29	24.12	40.00	-15.88	39	100	peak
2	362.9845	21.39	9.24	30.63	46.00	-15.37	164	100	peak
3	558.7301	22.04	11.52	33.56	46.00	-12.44	204	100	peak
4	896.9964	16.18	16.85	33.03	46.00	-12.97	255	100	peak

Test Specification: *Vertical*



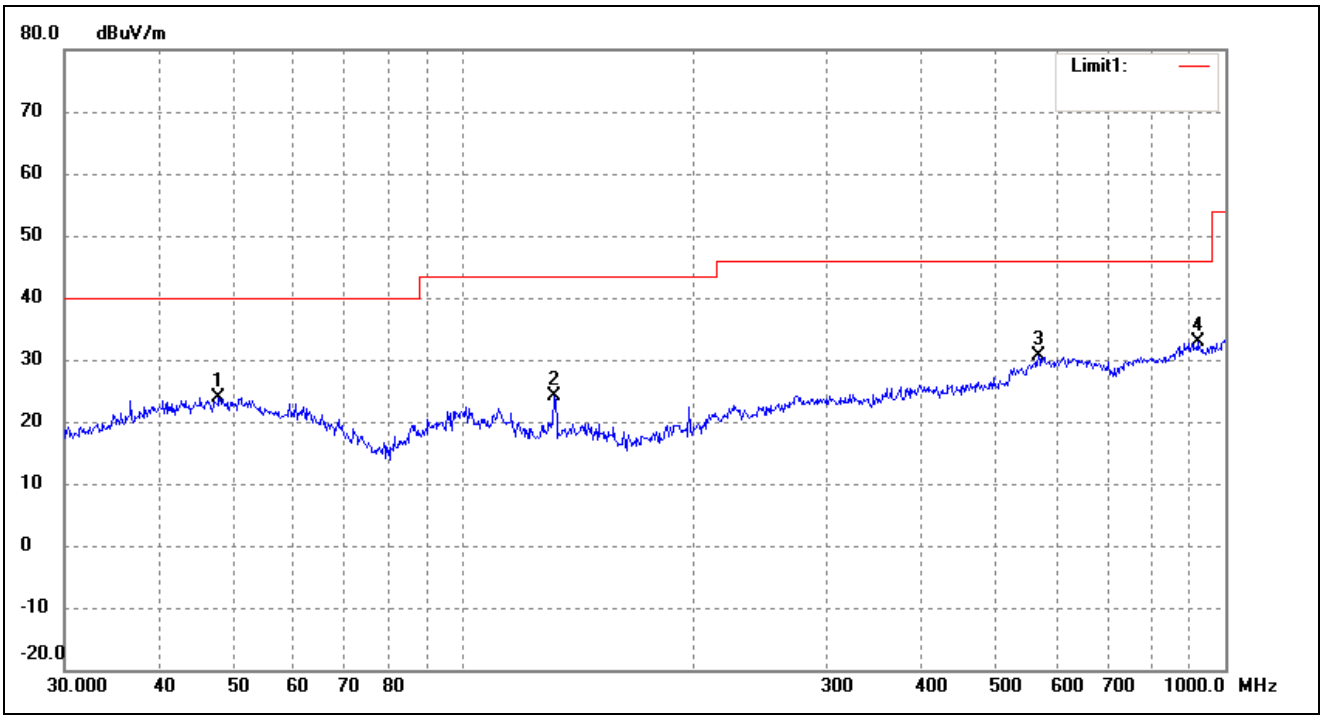
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	51.1208	17.10	6.16	23.26	40.00	-16.74	50	100	peak
2	197.8927	20.40	3.58	23.98	43.50	-19.52	89	100	peak
3	568.6127	22.66	11.98	34.64	46.00	-11.36	135	100	peak
4	884.5028	16.19	16.83	33.02	46.00	-12.98	169	100	peak

Test mode: Transmitting Channel 5240MHz
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.5016	18.61	6.41	25.02	40.00	-14.98	44	100	peak
2	429.5228	20.36	9.68	30.04	46.00	-15.96	149	100	peak
3	558.7300	21.54	11.52	33.06	46.00	-12.94	183	100	peak
4	672.8445	19.38	12.22	31.60	46.00	-14.40	226	100	peak

Test Specification: *Vertical*

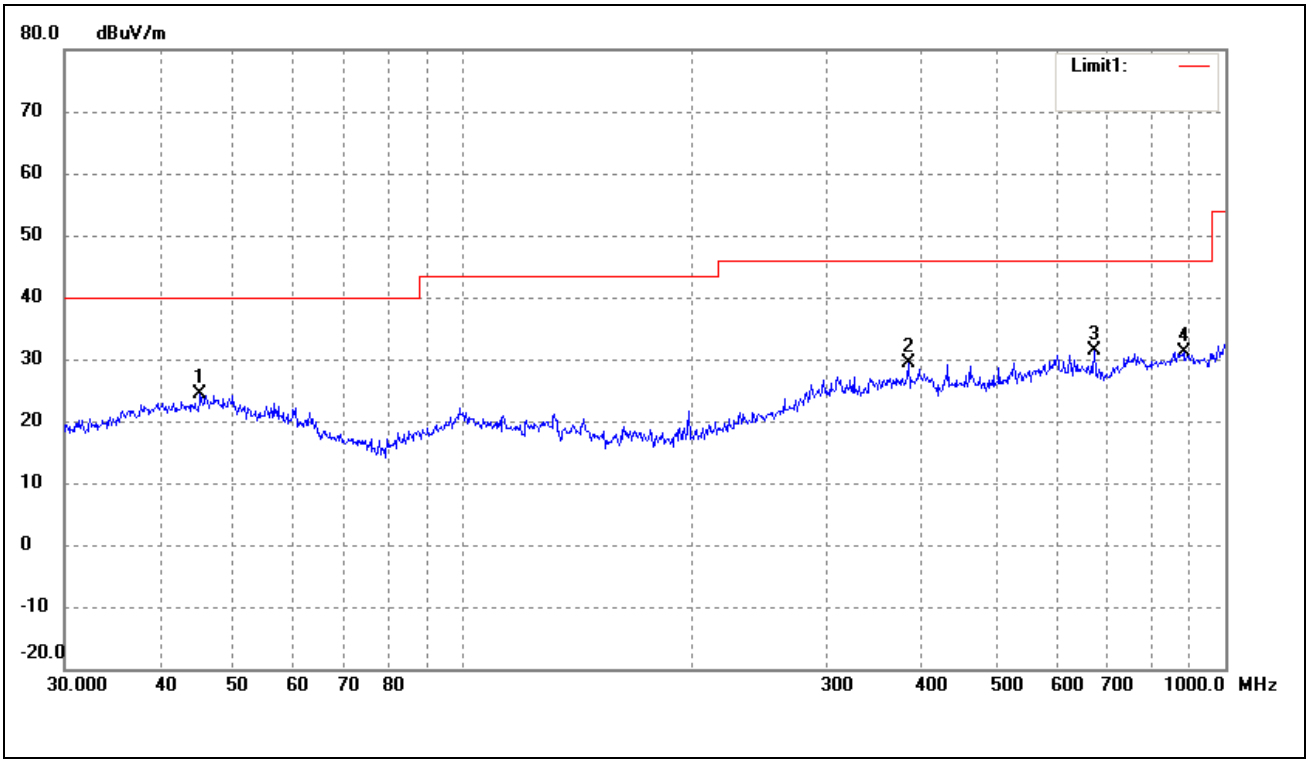


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.8260	16.91	6.91	23.82	40.00	-16.18	42	100	peak
2	131.7574	21.00	3.07	24.07	43.50	-19.43	79	100	peak
3	568.6127	18.66	11.98	30.64	46.00	-15.36	176	100	peak
4	919.2866	16.36	16.50	32.86	46.00	-13.14	255	100	peak

For 802.11n-HT40

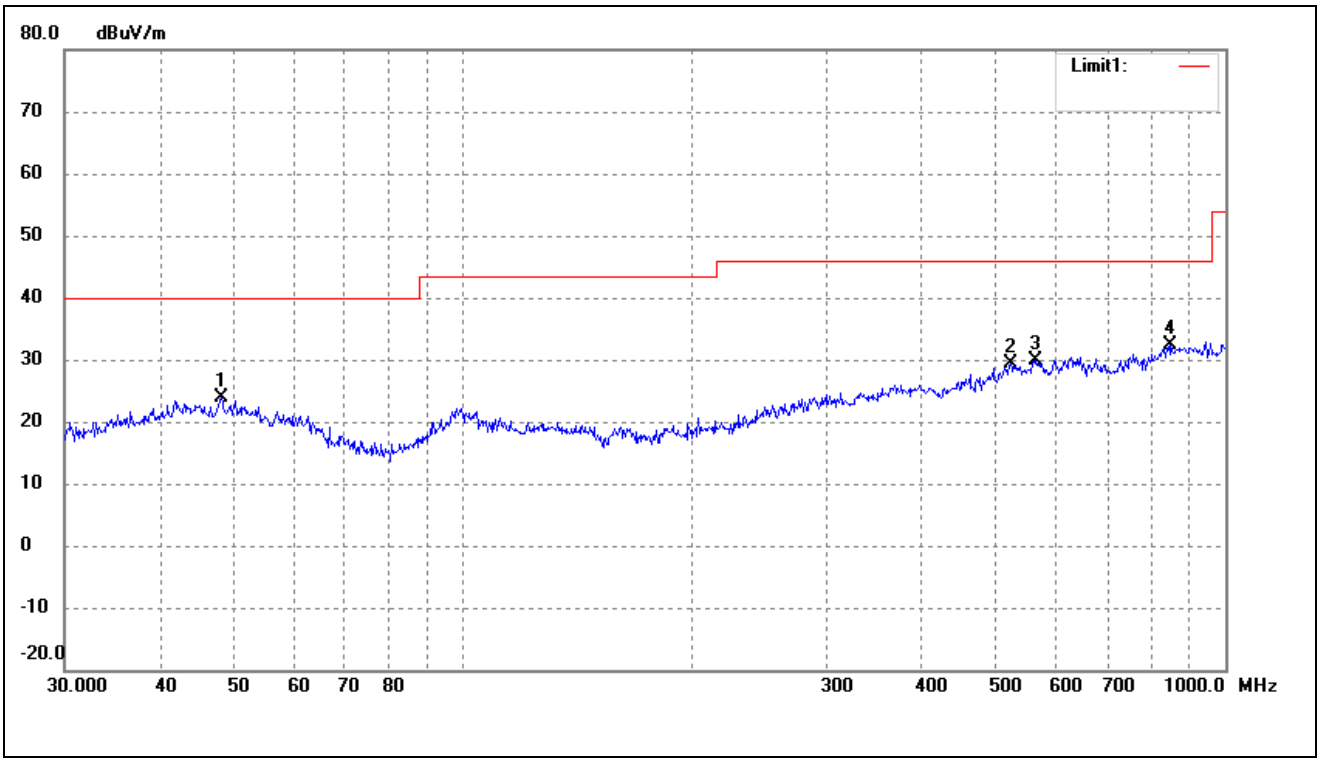
Test mode: Transmitting Channel 5190MHz

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	45.2165	17.53	6.74	24.27	40.00	-15.73	54	100	peak
2	383.9318	20.07	9.38	29.45	46.00	-16.55	125	100	peak
3	672.8445	19.24	12.22	31.46	46.00	-14.54	167	100	peak
4	881.4067	14.27	16.82	31.09	46.00	-14.91	241	100	peak

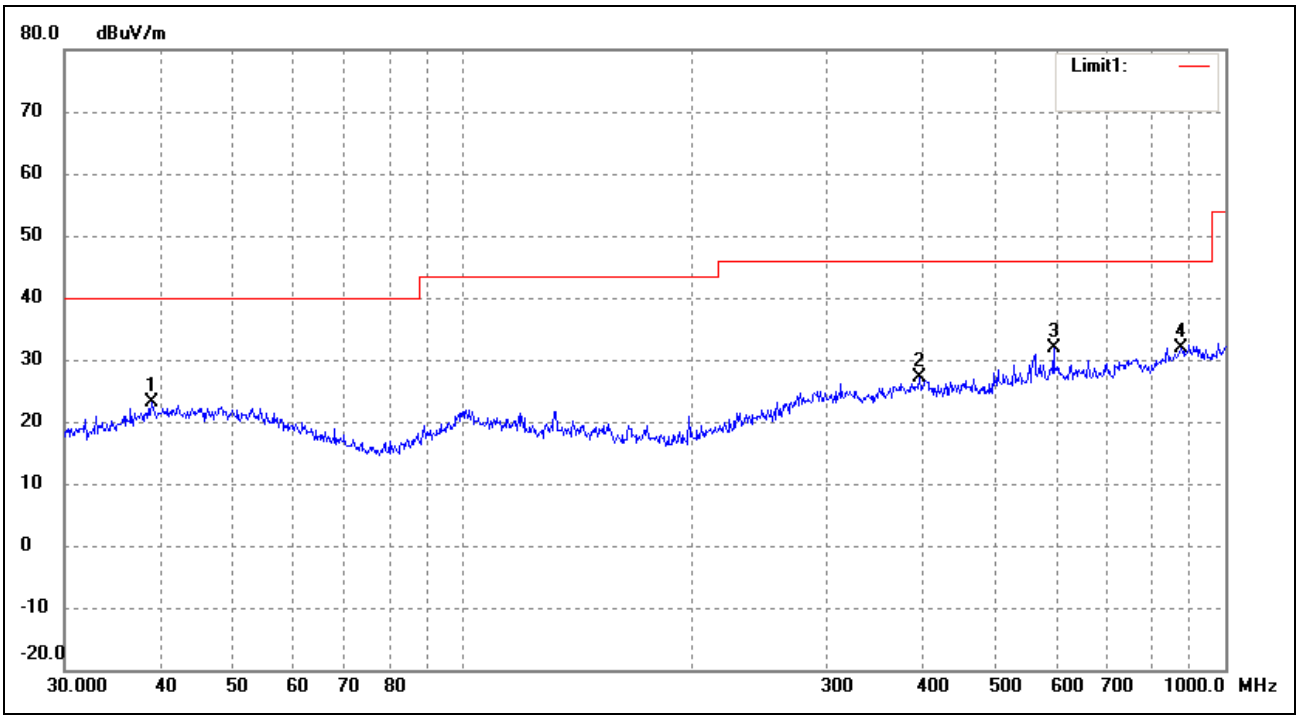
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	48.1625	16.97	6.81	23.78	40.00	-16.22	37	100	peak
2	522.7178	18.12	11.37	29.49	46.00	-16.51	204	100	peak
3	564.6389	18.12	11.77	29.89	46.00	-16.11	232	100	peak
4	848.0561	16.42	15.86	32.28	46.00	-13.72	268	100	peak

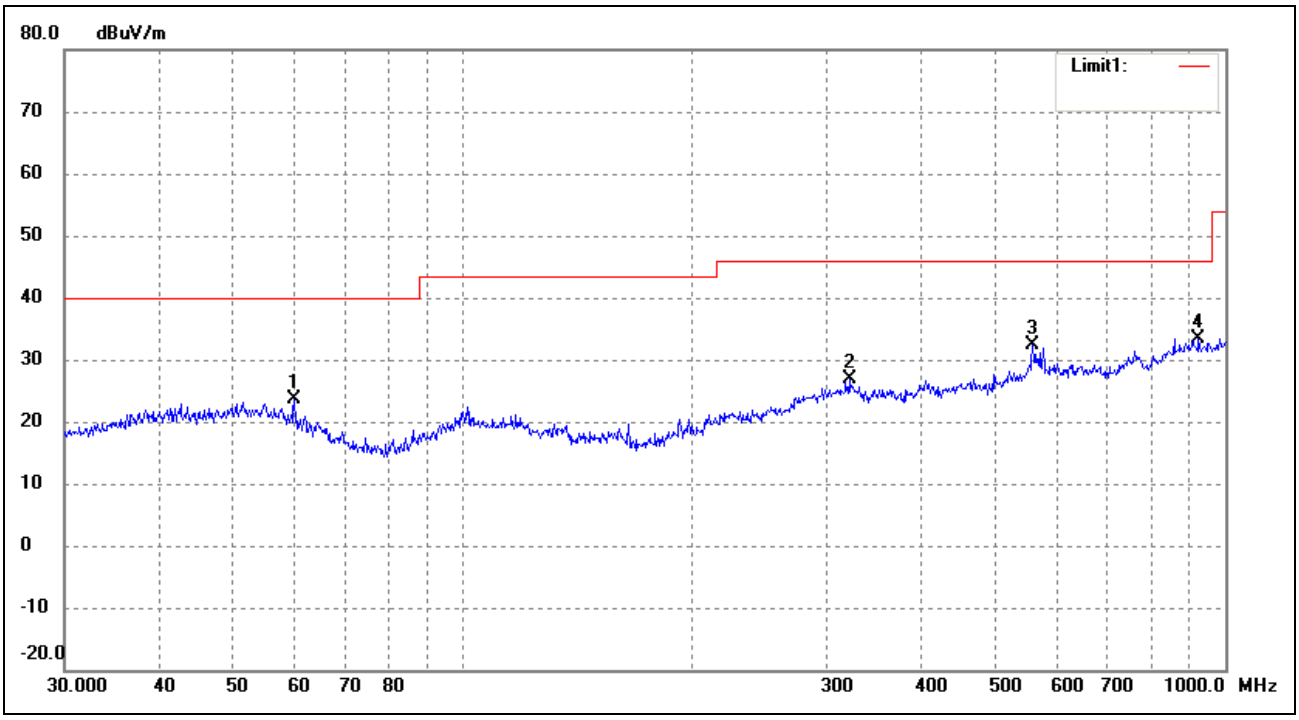
Test mode: Transmitting Channel 5230MHz

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	39.0245	14.03	9.08	23.11	40.00	-16.89	29	100	peak
2	396.2413	17.29	9.95	27.24	46.00	-18.76	135	100	peak
3	595.1326	18.85	13.14	31.99	46.00	-14.01	174	100	peak
4	875.2468	15.18	16.70	31.88	46.00	-14.12	218	100	peak

Test Specification: *Vertical*

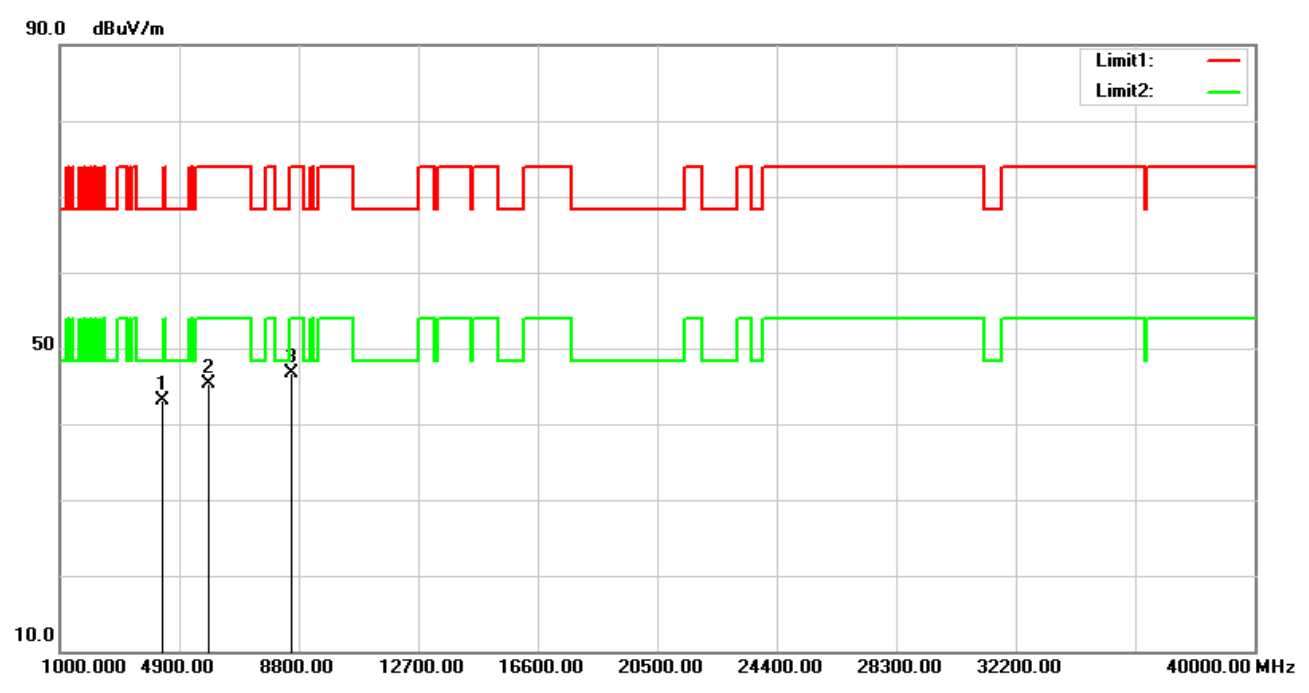


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	60.0690	18.15	5.36	23.51	40.00	-16.49	54	100	peak
2	321.0606	17.67	9.26	26.93	46.00	-19.07	165	100	peak
3	558.7300	20.75	11.52	32.27	46.00	-13.73	194	100	peak
4	922.5157	16.89	16.44	33.33	46.00	-12.67	237	100	peak

Above 1GHz

Worst case

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	WT31M2311A	Temp.( )/Hum.(%RH):	( )/%RH
Mode:	11a-5180-H		
Ant.Polar.:	Horizontal		
Description:	11a-5180-H		

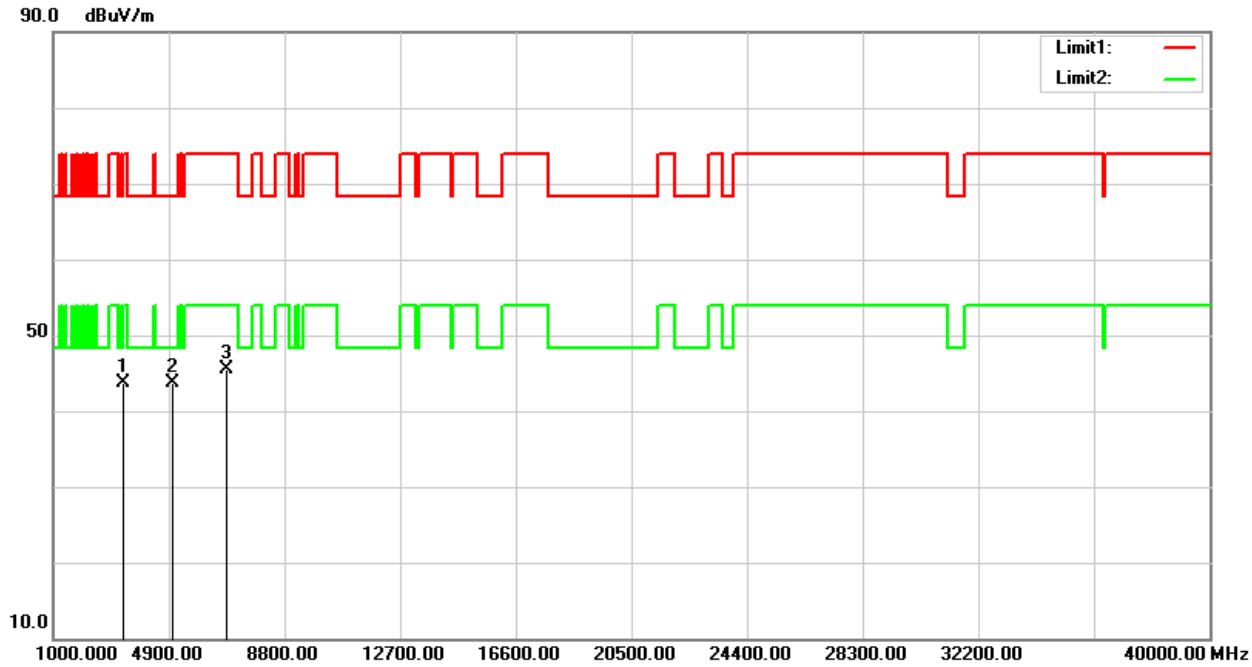


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	4354.000	51.24	-8.22	43.02	68.20	-25.18			peak
2	5836.000	51.91	-6.69	45.22	74.00	-28.78			peak
3	8566.000	48.52	-1.79	46.73	74.00	-27.27			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	WT31M2311A	Temp.( )/Hum.(%RH):	( )/%RH
Mode:	11a-5180-V		
Ant.Polar.:	Vertical		
Description:	11a-5180-V		

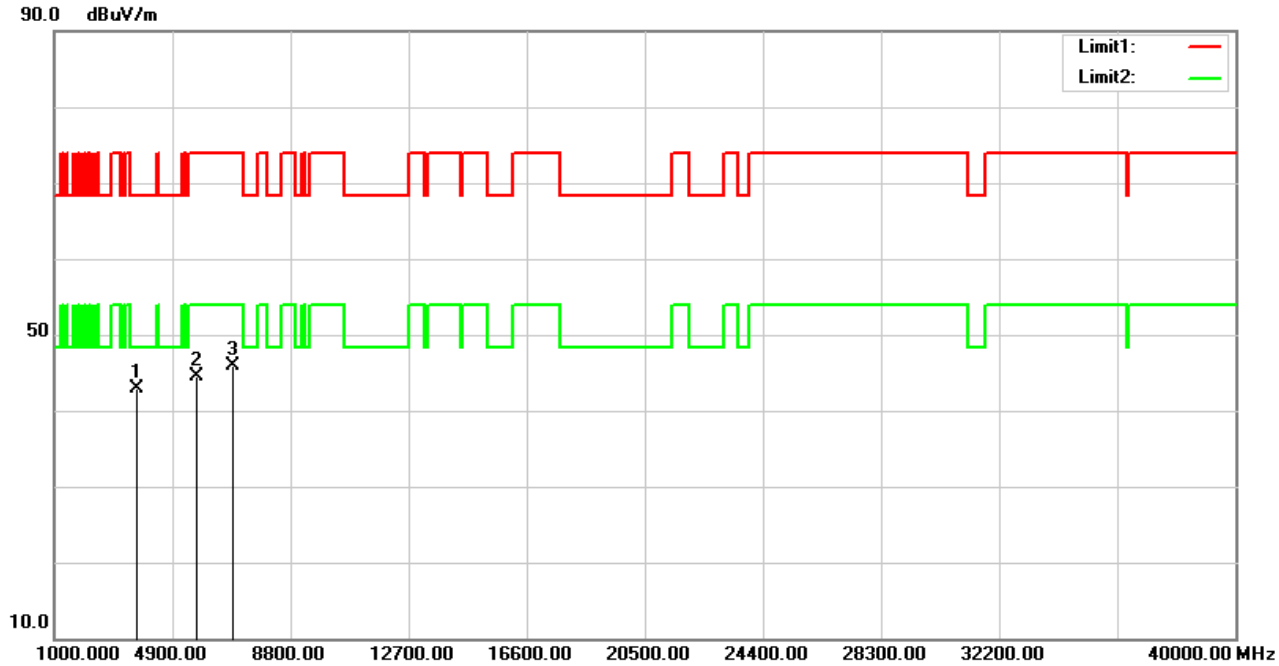


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	3379.000	53.55	-9.92	43.63	74.00	-30.37			peak
2	5017.000	51.33	-7.57	43.76	68.20	-24.44			peak
3	6850.000	50.01	-4.47	45.54	74.00	-28.46			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	WT31M2311A	Temp.( )/Hum.(%RH):	( )/%RH
Mode:		Date:	2017/1/3
Ant.Polar.:	Horizontal	Test By:	
Description:	11n20-5240-H		

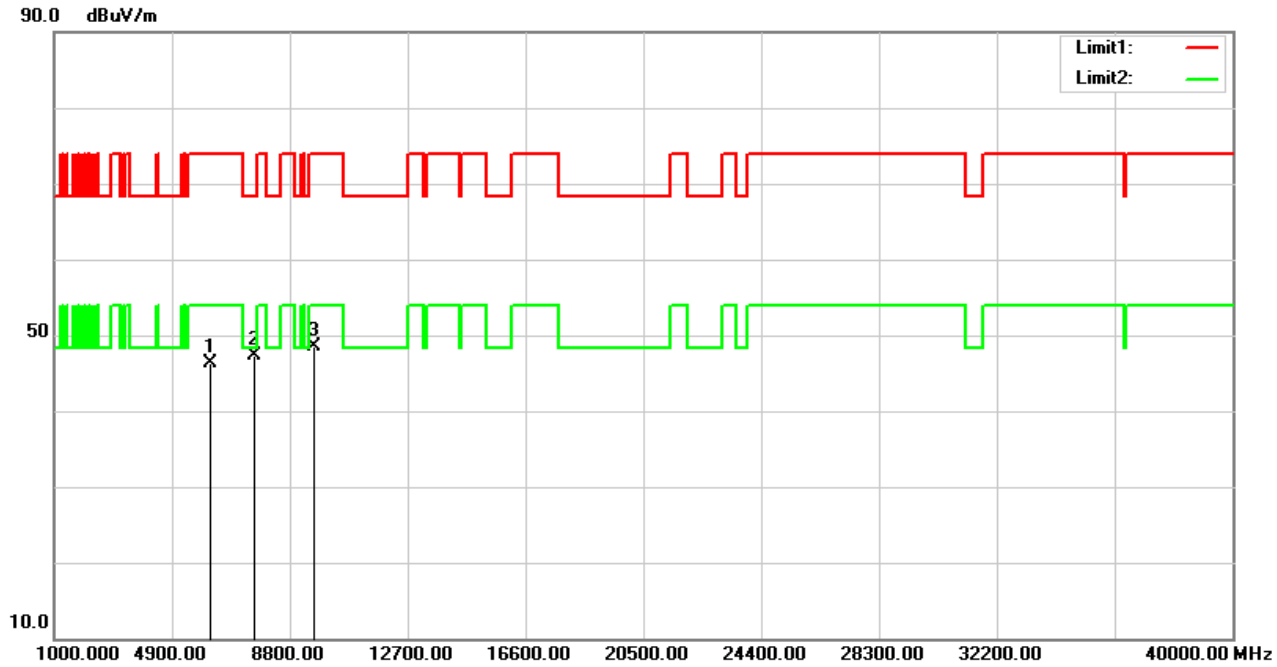


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	3730.000	51.88	-9.07	42.81	68.20	-25.39			peak
2	5719.000	51.35	-6.83	44.52	74.00	-29.48			peak
3	6889.000	50.28	-4.43	45.85	74.00	-28.15			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	WT31M2311A	Temp.( )/Hum.(%RH):	( )/%RH
Mode:	11n20-5240-V		
Ant.Polar.:	Vertical		
Description:	11n20-5240-V		

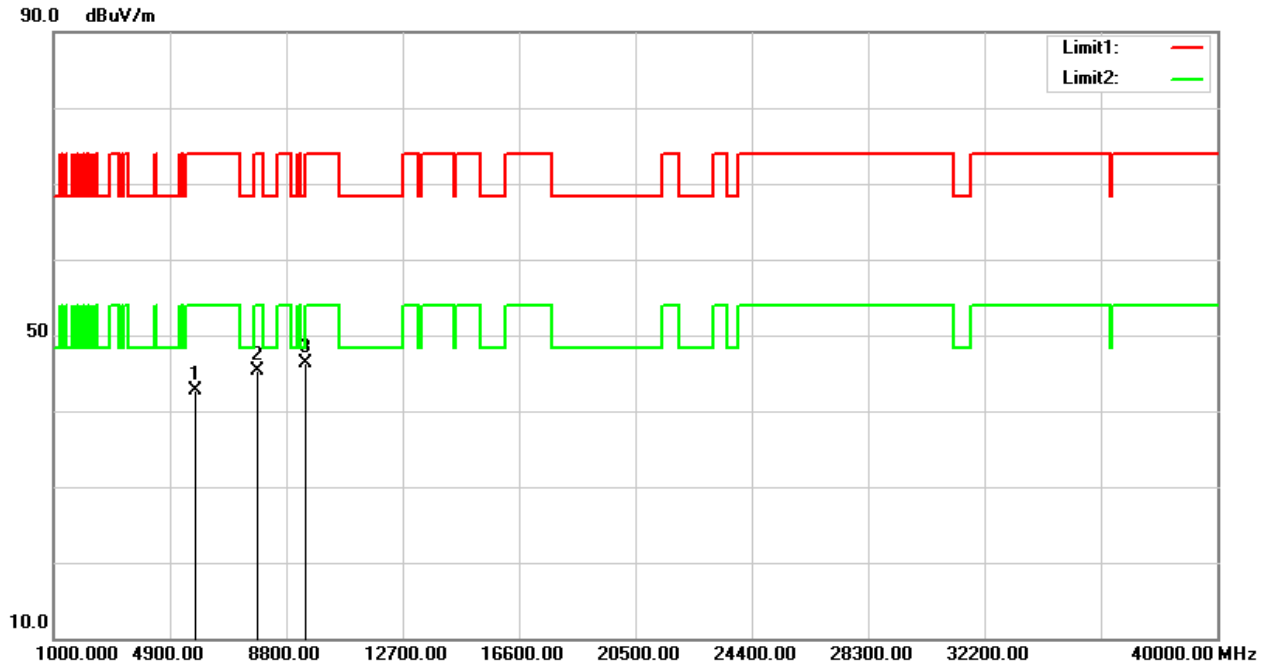


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	6148.000	52.24	-5.86	46.38	74.00	-27.62			peak
2	7630.000	50.66	-3.43	47.23	68.20	-20.97			peak
3	9619.000	47.66	0.82	48.48	74.00	-25.52			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	WT31M2311A	Temp.( )/Hum.(%RH):	( )/%RH
Mode:	11n40-5230-H		
Ant.Polar.:	Horizontal		
Description:	11n40-5230-H		

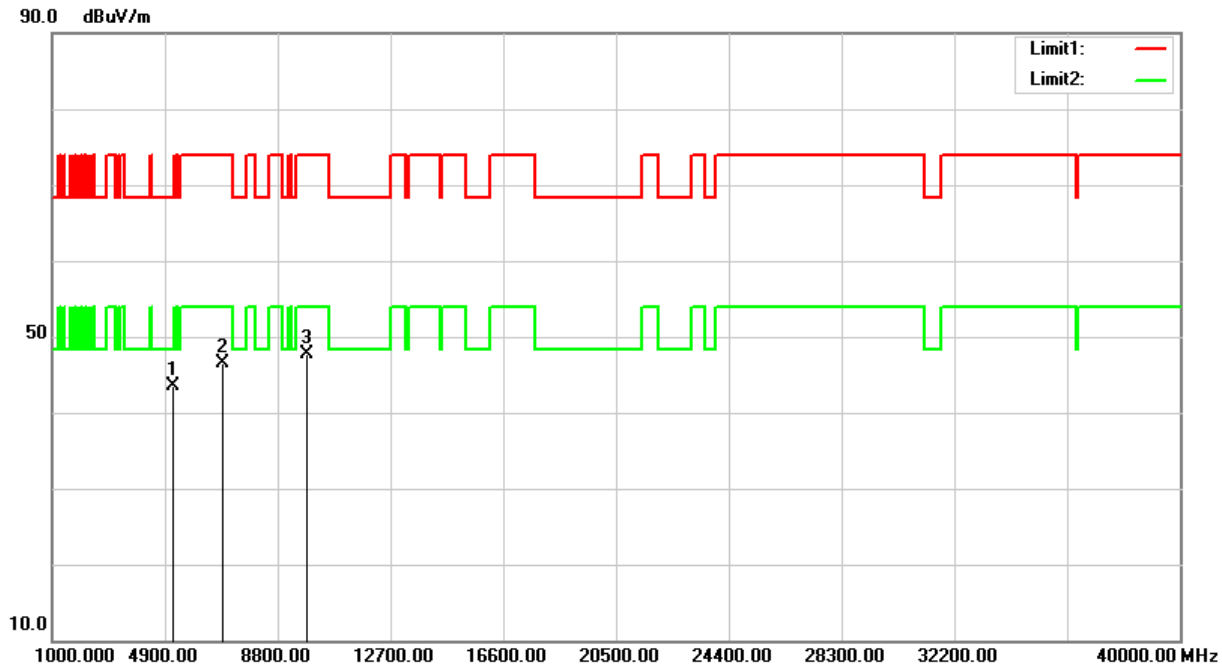


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	5758.000	49.65	-6.88	42.77	74.00	-31.23			peak
2	7825.000	48.38	-3.15	45.23	74.00	-28.77			peak
3	9463.000	46.24	0.00	46.24	68.20	-21.96			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Standard:	FCC(1G-40G)-PEAK	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 110V/60Hz
Model Number:	PRM-X6PRO-01	Temp.( )/Hum.(%RH):	( )/%RH
Mode:	11n40-5230-V		
Ant.Polar.:	Vertical		
Description:	11n40-5230-V		



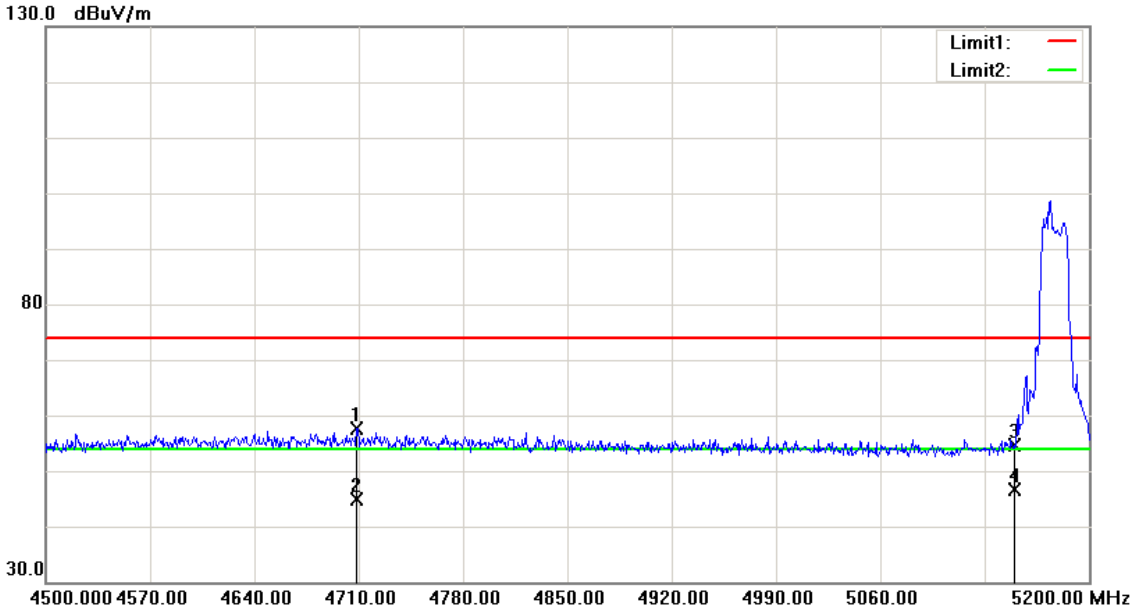
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Remark
1	5173.000	51.12	-7.55	43.57	68.20	-24.63			peak
2	6889.000	50.89	-4.43	46.46	74.00	-27.54			peak
3	9814.000	46.88	0.86	47.74	74.00	-26.26			peak

Note:1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) Pre-Amplifier gain (dB).

Band Edge

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5180 MHz		
Ant.Polar.:	Horizontal		



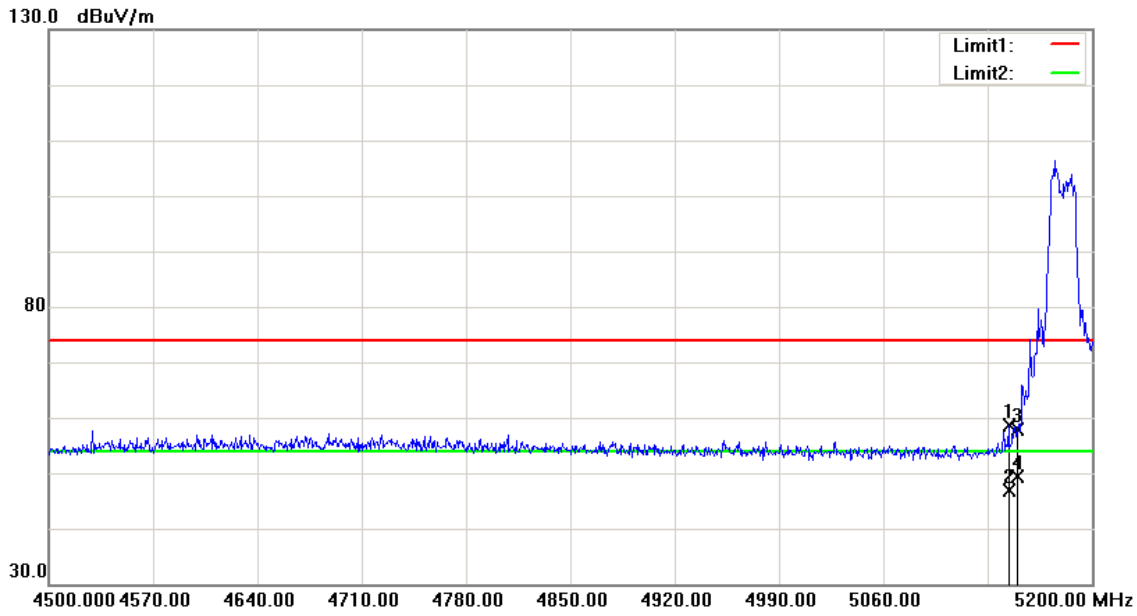
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4708.600	50.76	6.99	57.75	74.00	-16.25	peak
2	4708.600	37.95	6.99	44.94	54.00	-9.06	AVG
3	5150.000	46.45	8.16	54.61	74.00	-19.39	peak
4	5150.000	38.59	8.16	46.75	54.00	-7.25	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5180 MHz		
Ant.Polar.:	Vertical		



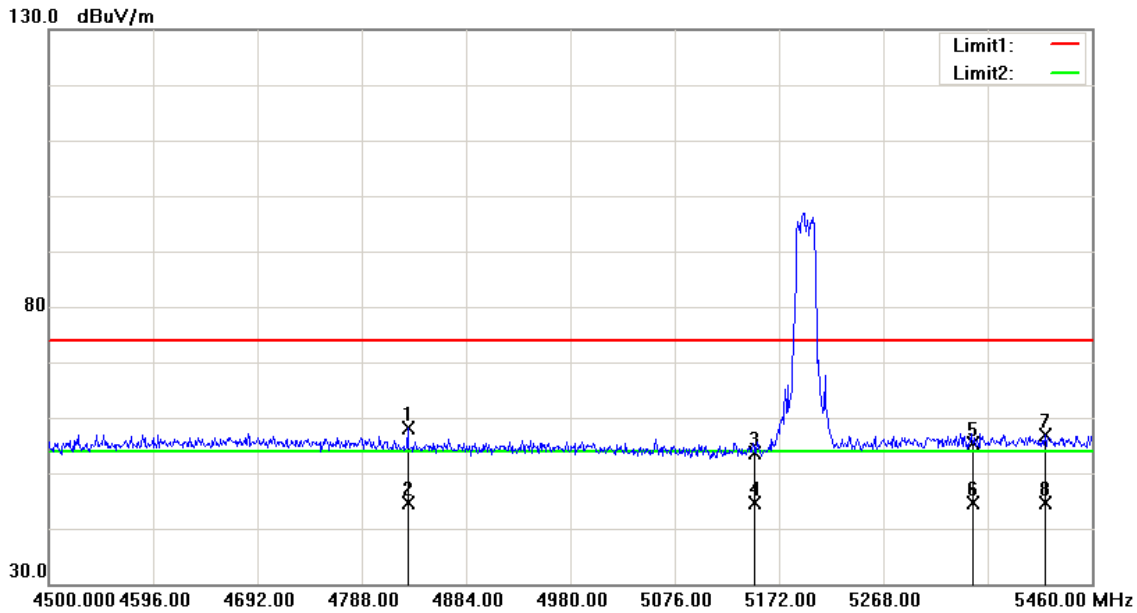
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.000	50.42	8.15	58.57	74.00	-15.43	peak
2	5144.000	38.80	8.15	46.95	54.00	-7.05	AVG
3	5150.000	49.65	8.16	57.81	74.00	-16.19	peak
4	5150.000	41.16	8.16	49.32	54.00	-4.68	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5200 MHz		
Ant.Polar.:	Horizontal		



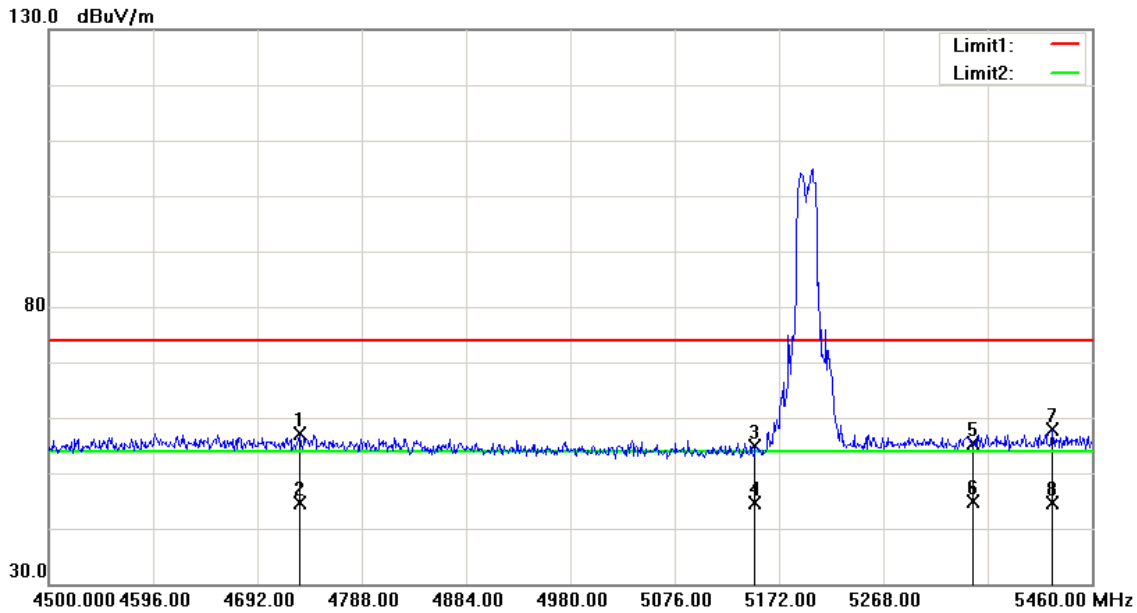
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.240	50.64	7.43	58.07	74.00	-15.93	peak
2	4830.240	37.25	7.43	44.68	54.00	-9.32	AVG
3	5150.000	45.58	8.16	53.74	74.00	-20.26	peak
4	5150.000	36.58	8.16	44.74	54.00	-9.26	AVG
5	5350.000	46.93	8.33	55.26	74.00	-18.74	peak
6	5350.000	36.26	8.33	44.59	54.00	-9.41	AVG
7	5416.800	48.48	8.39	56.87	74.00	-17.13	peak
8	5416.800	36.27	8.39	44.66	54.00	-9.34	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5200 MHz		
Ant.Polar.:	Vertical		



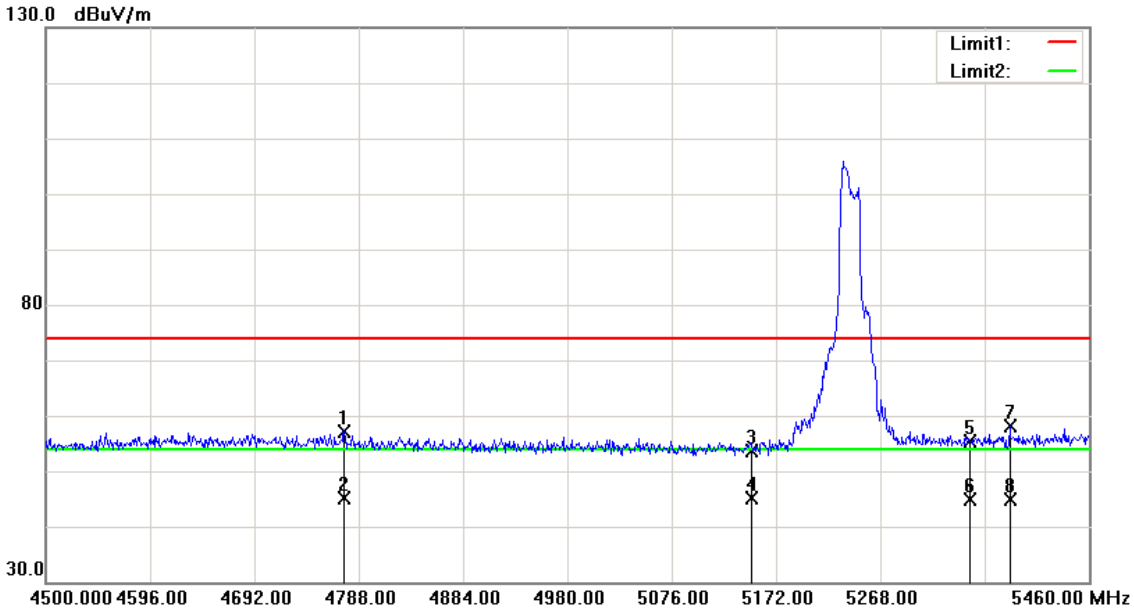
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4730.400	50.08	7.08	57.16	74.00	-16.84	peak
2	4730.400	37.45	7.08	44.53	54.00	-9.47	AVG
3	5150.000	46.79	8.16	54.95	74.00	-19.05	peak
4	5150.000	36.53	8.16	44.69	54.00	-9.31	AVG
5	5350.000	47.16	8.33	55.49	74.00	-18.51	peak
6	5350.000	36.44	8.33	44.77	54.00	-9.23	AVG
7	5423.520	49.59	8.40	57.99	74.00	-16.01	peak
8	5423.520	36.29	8.40	44.69	54.00	-9.31	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5240 MHz		
Ant.Polar.:	Horizontal		



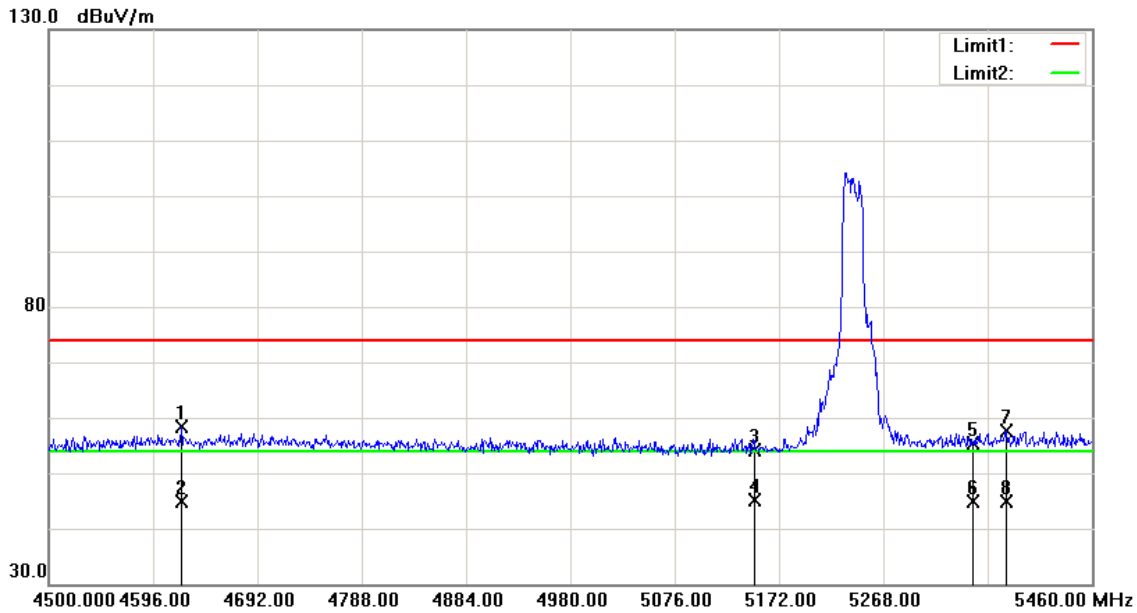
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4774.560	50.02	7.23	57.25	74.00	-16.75	peak
2	4774.560	37.88	7.23	45.11	54.00	-8.89	AVG
3	5150.000	45.55	8.16	53.71	74.00	-20.29	peak
4	5150.000	36.86	8.16	45.02	54.00	-8.98	AVG
5	5350.000	47.04	8.33	55.37	74.00	-18.63	peak
6	5350.000	36.63	8.33	44.96	54.00	-9.04	AVG
7	5387.040	49.79	8.36	58.15	74.00	-15.85	peak
8	5387.040	36.55	8.36	44.91	54.00	-9.09	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5240 MHz		
Ant.Polar.:	Vertical		



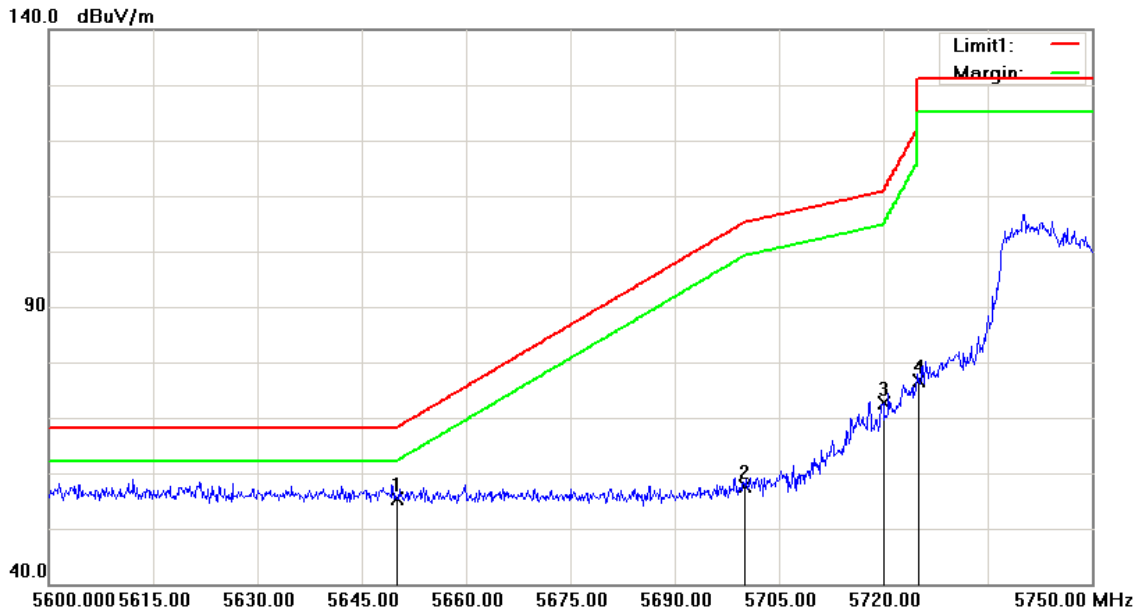
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4621.920	51.74	6.70	58.44	74.00	-15.56	peak
2	4621.920	38.16	6.70	44.86	54.00	-9.14	AVG
3	5150.000	45.90	8.16	54.06	74.00	-19.94	peak
4	5150.000	36.88	8.16	45.04	54.00	-8.96	AVG
5	5350.000	46.93	8.33	55.26	74.00	-18.74	peak
6	5350.000	36.43	8.33	44.76	54.00	-9.24	AVG
7	5381.280	49.17	8.36	57.53	74.00	-16.47	peak
8	5381.280	36.44	8.36	44.80	54.00	-9.20	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5745 MHz		
Ant.Polar.:	Horizontal		



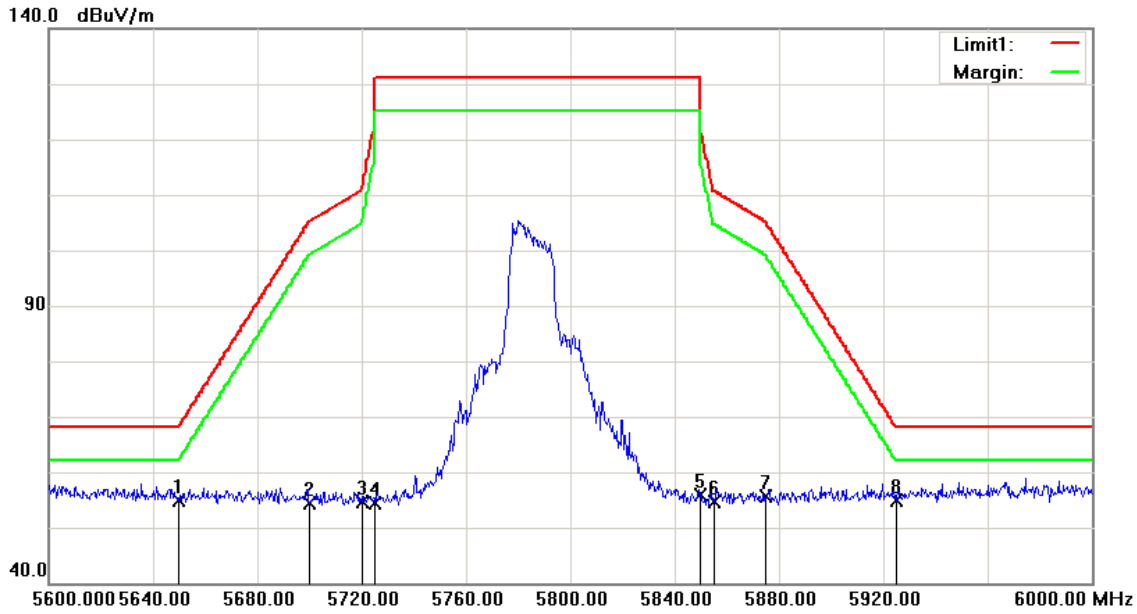
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.55	8.84	55.39	68.20	-12.81	peak
2	5700.000	48.58	8.97	57.55	105.20	-47.65	peak
3	5720.000	63.72	9.01	72.73	110.80	-38.07	peak
4	5725.000	67.66	9.03	76.69	122.20	-45.51	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5785 MHz		
Ant.Polar.:	Horizontal		



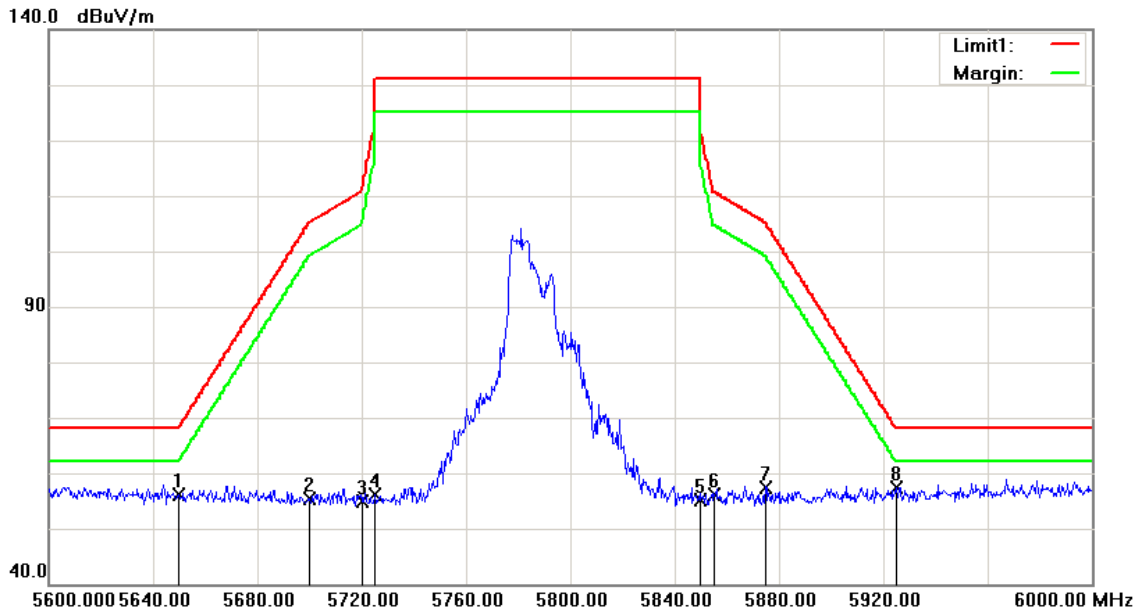
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.09	8.84	54.93	68.20	-13.27	peak
2	5700.000	45.38	8.97	54.35	105.20	-50.85	peak
3	5720.000	45.60	9.01	54.61	110.80	-56.19	peak
4	5725.000	45.44	9.03	54.47	122.20	-67.73	peak
5	5850.000	46.57	9.33	55.90	122.20	-66.30	peak
6	5855.000	45.35	9.35	54.70	110.80	-56.10	peak
7	5875.000	46.20	9.40	55.60	105.20	-49.60	peak
8	5925.000	45.38	9.53	54.91	68.20	-13.29	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5785 MHz		
Ant.Polar.:	Vertical		



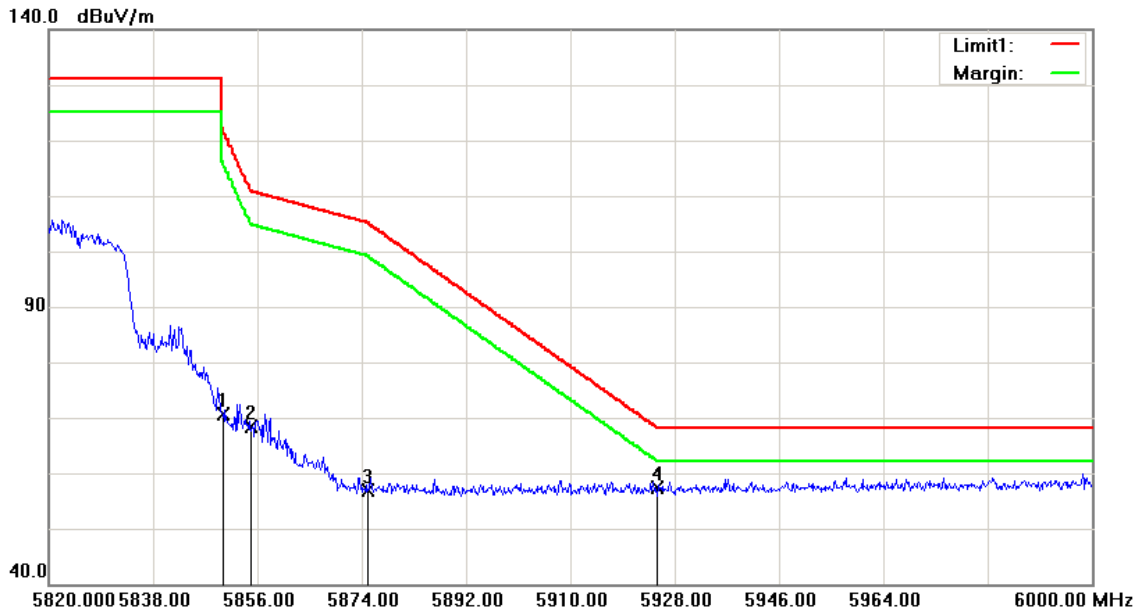
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.27	8.84	56.11	68.20	-12.09	peak
2	5700.000	46.38	8.97	55.35	105.20	-49.85	peak
3	5720.000	45.89	9.01	54.90	110.80	-55.90	peak
4	5725.000	46.98	9.03	56.01	122.20	-66.19	peak
5	5850.000	45.78	9.33	55.11	122.20	-67.09	peak
6	5855.000	46.89	9.35	56.24	110.80	-54.56	peak
7	5875.000	47.87	9.40	57.27	105.20	-47.93	peak
8	5925.000	47.97	9.53	57.50	68.20	-10.70	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5825 MHz		
Ant.Polar.:	Horizontal		



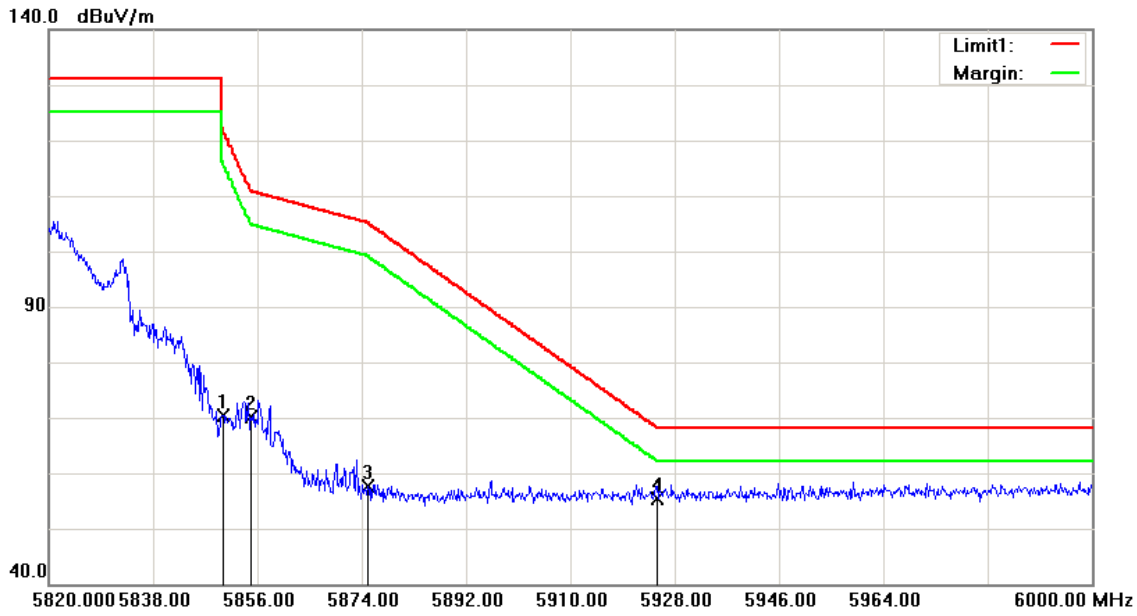
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	61.35	9.33	70.68	122.20	-51.52	peak
2	5855.000	58.96	9.35	68.31	110.80	-42.49	peak
3	5875.000	47.43	9.40	56.83	105.20	-48.37	peak
4	5925.000	47.79	9.53	57.32	68.20	-10.88	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11a Link Mode	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5825 MHz		
Ant.Polar.:	Vertical		



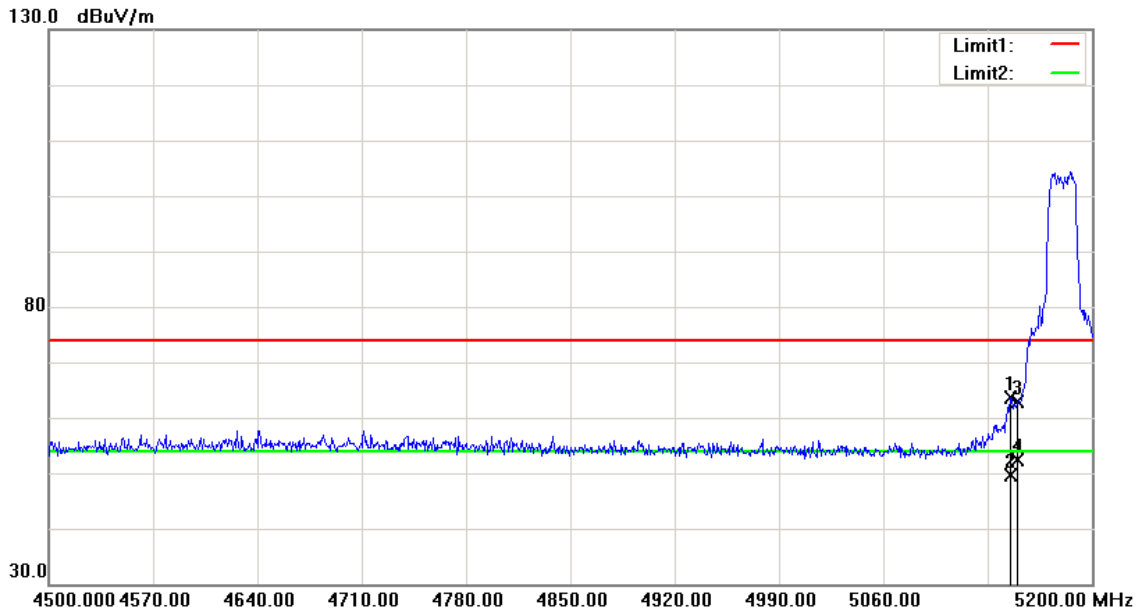
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	61.05	9.33	70.38	122.20	-51.82	peak
2	5855.000	60.68	9.35	70.03	110.80	-40.77	peak
3	5875.000	48.19	9.40	57.59	105.20	-47.61	peak
4	5925.000	45.80	9.53	55.33	68.20	-12.87	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5180 MHz		
Ant.Polar.:	Horizontal		



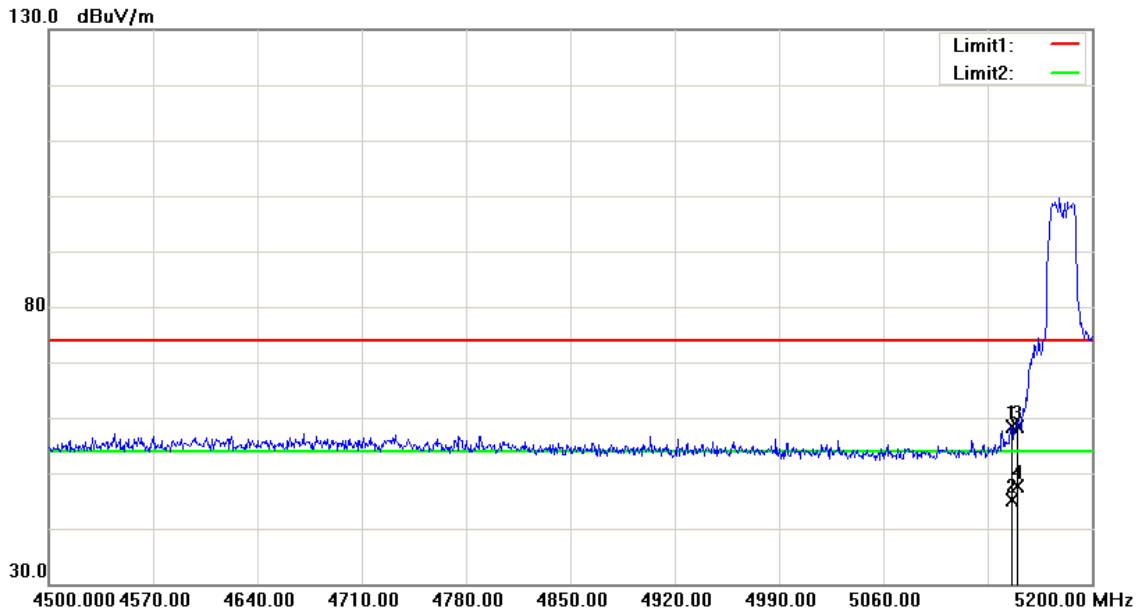
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.400	55.40	8.15	63.55	74.00	-10.45	peak
2	5145.400	41.46	8.15	49.61	54.00	-4.39	AVG
3	5150.000	54.72	8.16	62.88	74.00	-11.12	peak
4	5150.000	44.21	8.16	52.37	54.00	-1.63	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5180 MHz		
Ant.Polar.:	Vertical		



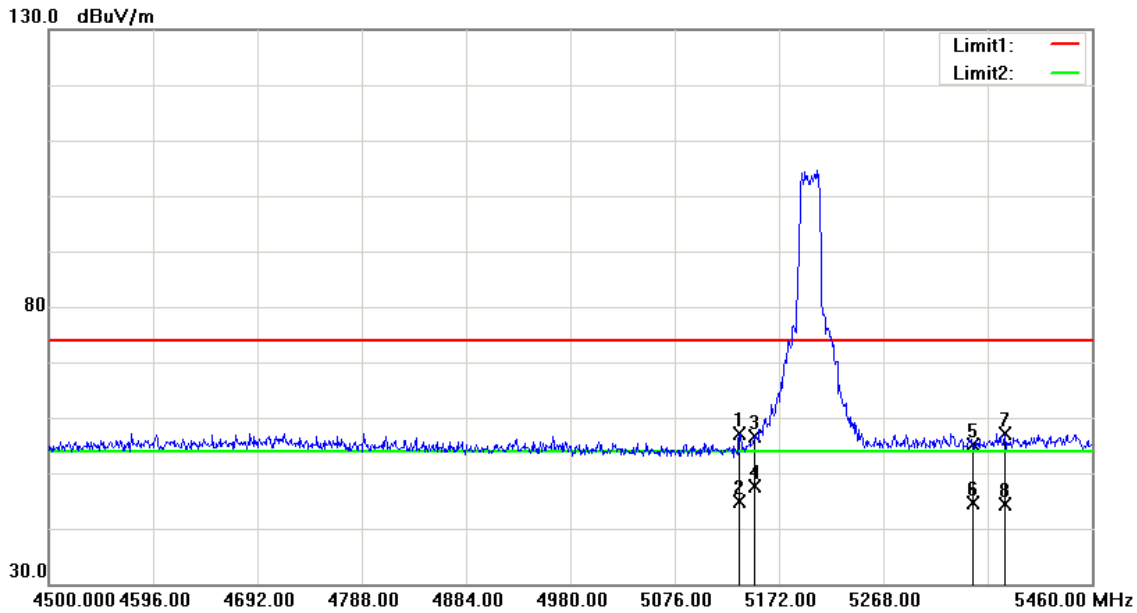
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	50.26	8.15	58.41	74.00	-15.59	peak
2	5146.100	37.07	8.15	45.22	54.00	-8.78	AVG
3	5150.000	50.24	8.16	58.40	74.00	-15.60	peak
4	5150.000	39.53	8.16	47.69	54.00	-6.31	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5200 MHz		
Ant.Polar.:	Horizontal		



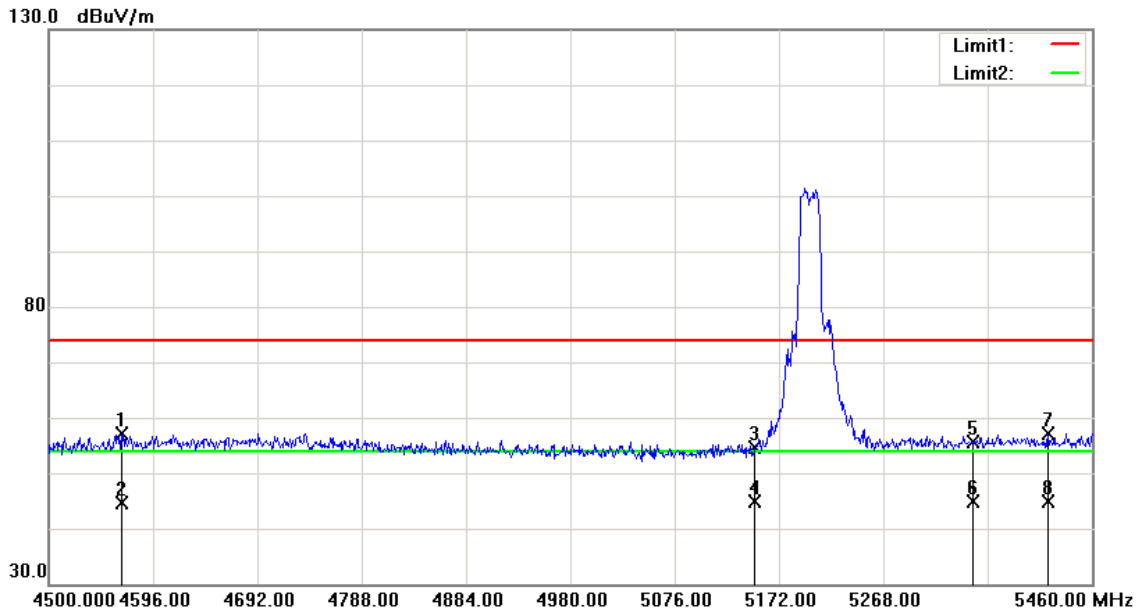
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.520	49.11	8.14	57.25	74.00	-16.75	peak
2	5135.520	36.62	8.14	44.76	54.00	-9.24	AVG
3	5150.000	48.36	8.16	56.52	74.00	-17.48	peak
4	5150.000	39.47	8.16	47.63	54.00	-6.37	AVG
5	5350.000	46.75	8.33	55.08	74.00	-18.92	peak
6	5350.000	36.35	8.33	44.68	54.00	-9.32	AVG
7	5379.360	48.86	8.36	57.22	74.00	-16.78	peak
8	5379.360	36.13	8.36	44.49	54.00	-9.51	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5200 MHz		
Ant.Polar.:	Vertical		



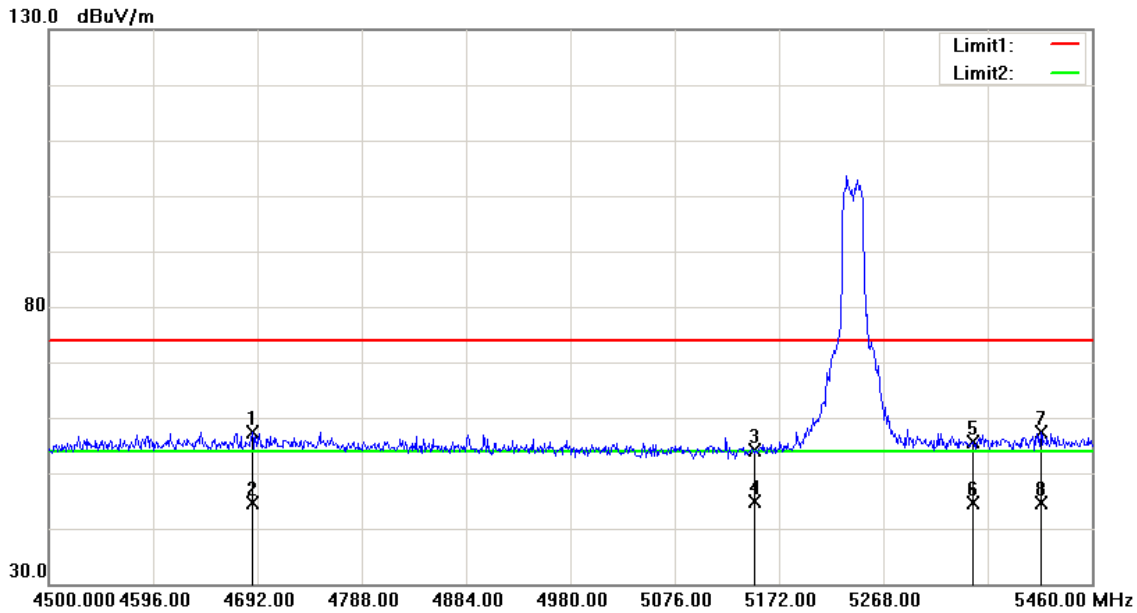
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4567.200	50.72	6.51	57.23	74.00	-16.77	peak
2	4567.200	38.09	6.51	44.60	54.00	-9.40	AVG
3	5150.000	46.55	8.16	54.71	74.00	-19.29	peak
4	5150.000	36.75	8.16	44.91	54.00	-9.09	AVG
5	5350.000	47.41	8.33	55.74	74.00	-18.26	peak
6	5350.000	36.50	8.33	44.83	54.00	-9.17	AVG
7	5419.680	48.72	8.39	57.11	74.00	-16.89	peak
8	5419.680	36.40	8.39	44.79	54.00	-9.21	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5240 MHz		
Ant.Polar.:	Horizontal		



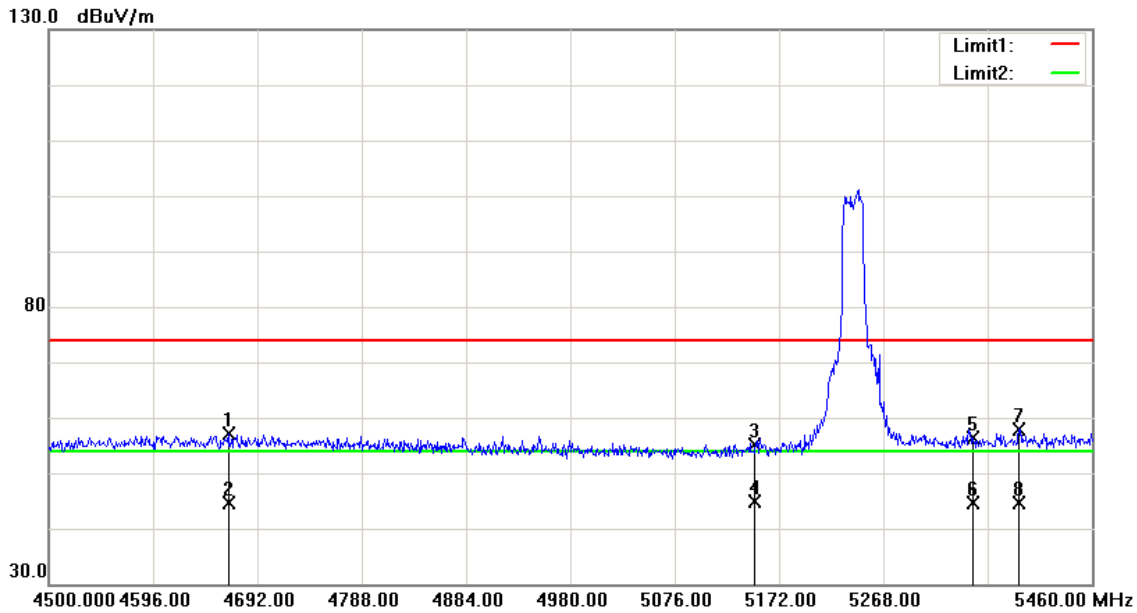
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4687.200	50.57	6.92	57.49	74.00	-16.51	peak
2	4687.200	37.60	6.92	44.52	54.00	-9.48	AVG
3	5150.000	45.97	8.16	54.13	74.00	-19.87	peak
4	5150.000	36.60	8.16	44.76	54.00	-9.24	AVG
5	5350.000	47.41	8.33	55.74	74.00	-18.26	peak
6	5350.000	36.25	8.33	44.58	54.00	-9.42	AVG
7	5412.960	48.88	8.39	57.27	74.00	-16.73	peak
8	5412.960	36.25	8.39	44.64	54.00	-9.36	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5240 MHz		
Ant.Polar.:	Vertical		



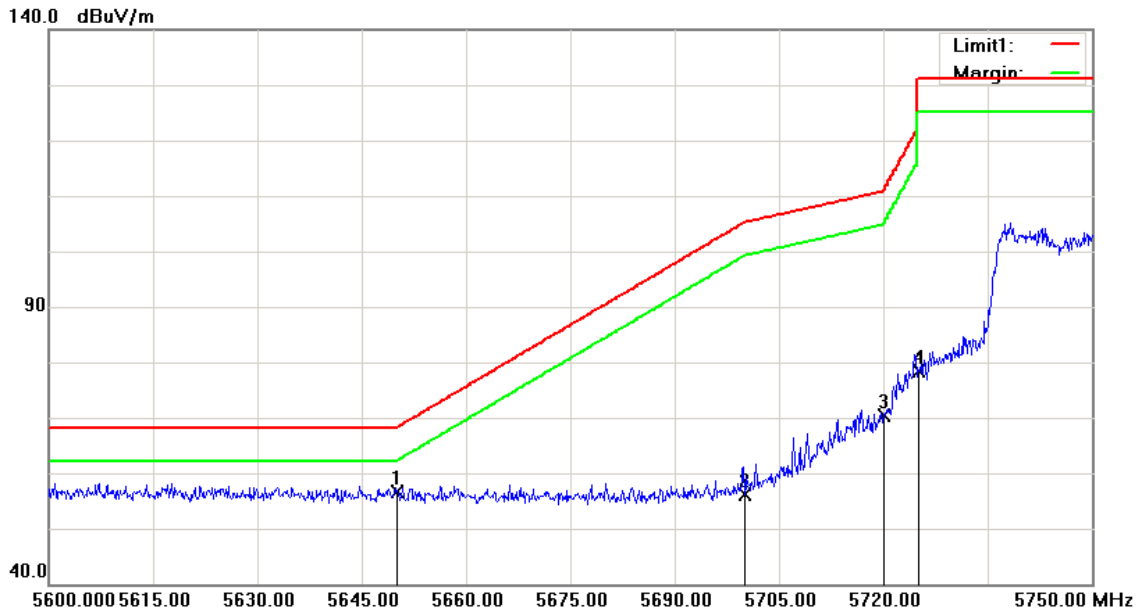
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4665.120	50.38	6.84	57.22	74.00	-16.78	peak
2	4665.120	37.81	6.84	44.65	54.00	-9.35	AVG
3	5150.000	47.00	8.16	55.16	74.00	-18.84	peak
4	5150.000	36.71	8.16	44.87	54.00	-9.13	AVG
5	5350.000	48.14	8.33	56.47	74.00	-17.53	peak
6	5350.000	36.26	8.33	44.59	54.00	-9.41	AVG
7	5392.800	49.51	8.37	57.88	74.00	-16.12	peak
8	5392.800	36.34	8.37	44.71	54.00	-9.29	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5745 MHz		
Ant.Polar.:	Horizontal		



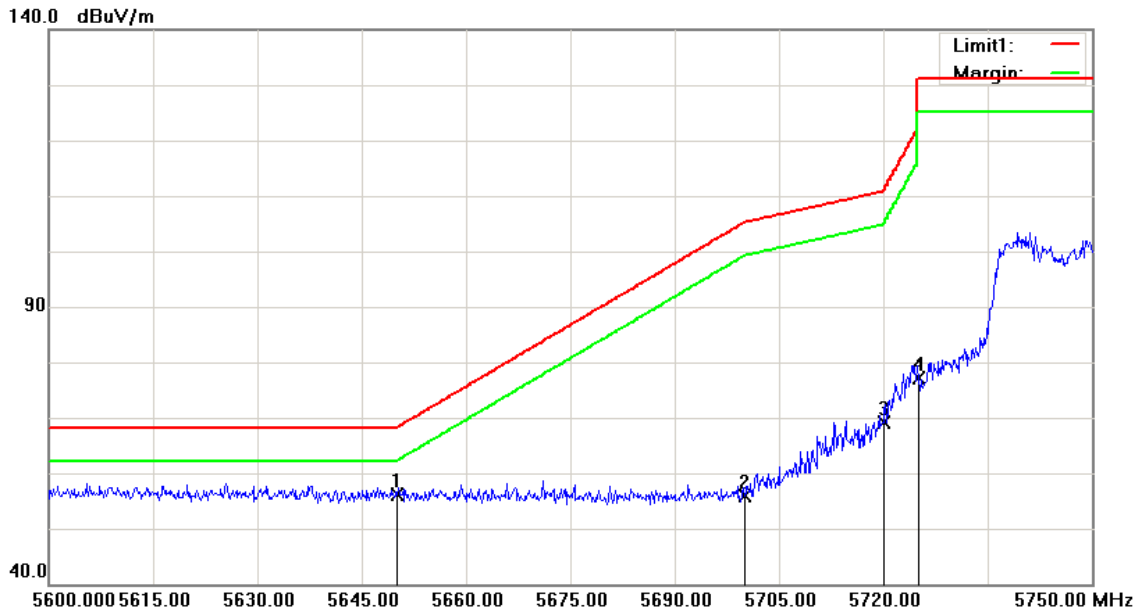
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.91	8.84	56.75	68.20	-11.45	peak
2	5700.000	47.22	8.97	56.19	105.20	-49.01	peak
3	5720.000	61.46	9.01	70.47	110.80	-40.33	peak
4	5725.000	69.41	9.03	78.44	122.20	-43.76	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5745 MHz		
Ant.Polar.:	Vertical		



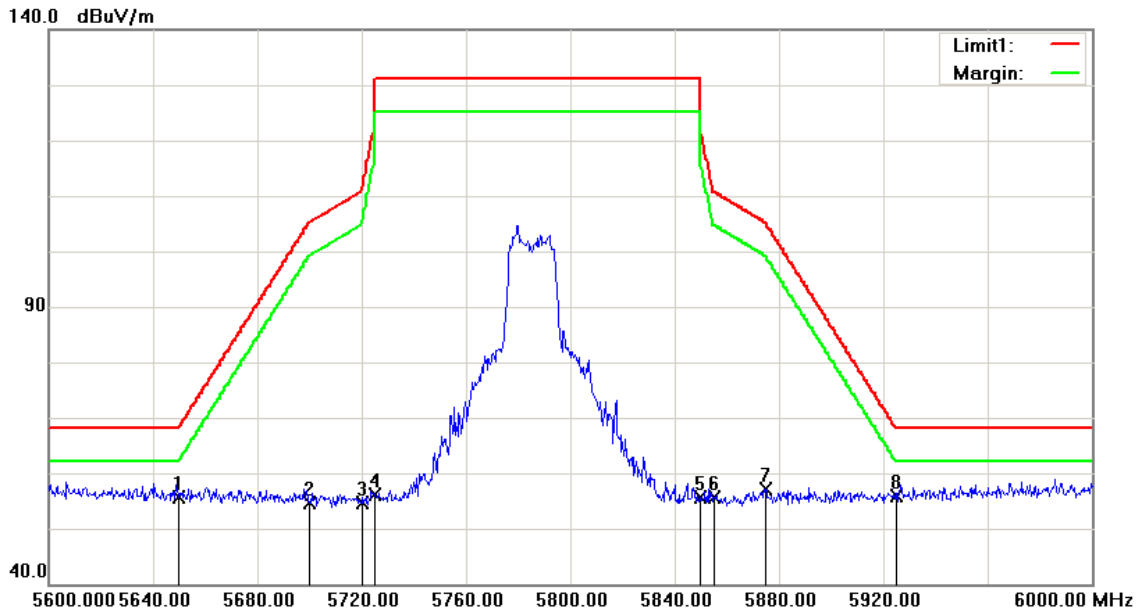
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.25	8.84	56.09	68.20	-12.11	peak
2	5700.000	46.88	8.97	55.85	105.20	-49.35	peak
3	5720.000	60.05	9.01	69.06	110.80	-41.74	peak
4	5725.000	68.17	9.03	77.20	122.20	-45.00	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5785 MHz		
Ant.Polar.:	Horizontal		



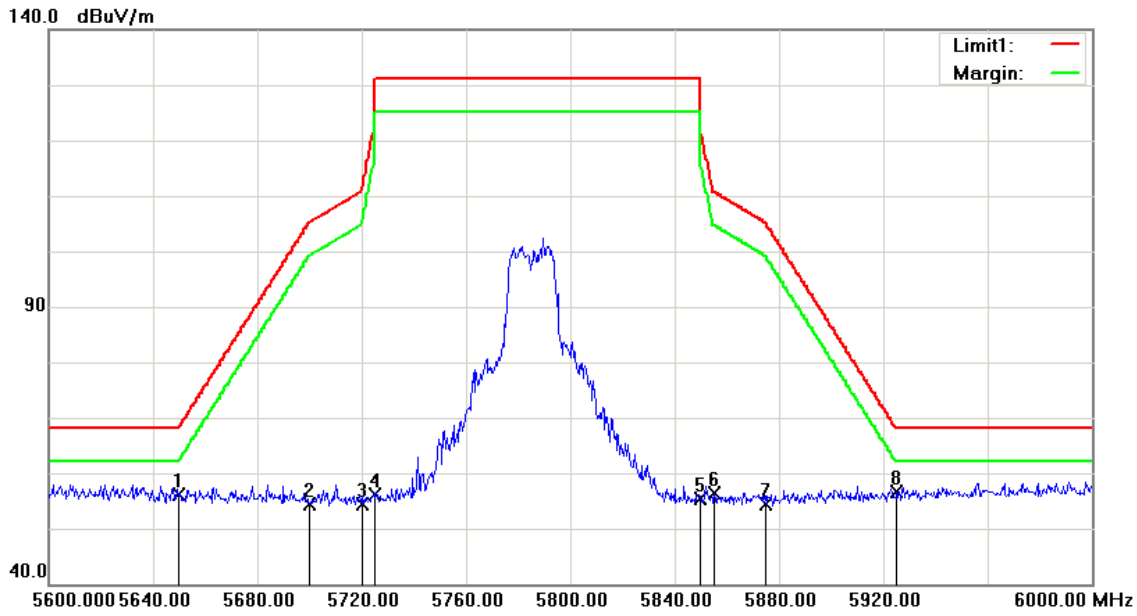
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.71	8.84	55.55	68.20	-12.65	peak
2	5700.000	45.68	8.97	54.65	105.20	-50.55	peak
3	5720.000	45.66	9.01	54.67	110.80	-56.13	peak
4	5725.000	47.00	9.03	56.03	122.20	-66.17	peak
5	5850.000	46.37	9.33	55.70	122.20	-66.50	peak
6	5855.000	46.40	9.35	55.75	110.80	-55.05	peak
7	5875.000	47.78	9.40	57.18	105.20	-48.02	peak
8	5925.000	46.30	9.53	55.83	68.20	-12.37	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5785 MHz		
Ant.Polar.:	Vertical		



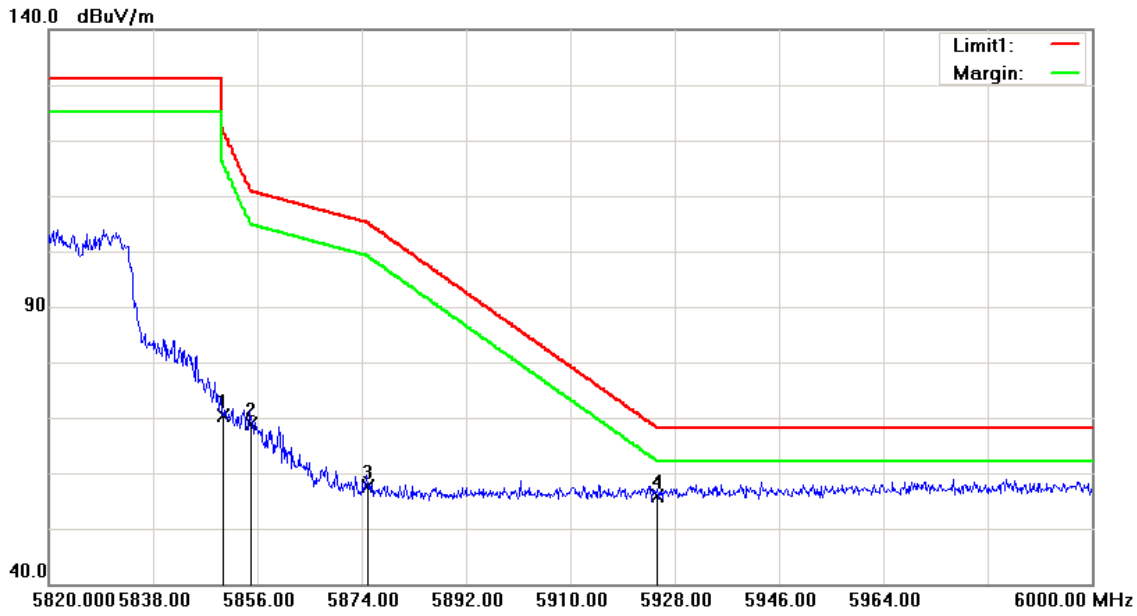
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.26	8.84	56.10	68.20	-12.10	peak
2	5700.000	45.46	8.97	54.43	105.20	-50.77	peak
3	5720.000	45.49	9.01	54.50	110.80	-56.30	peak
4	5725.000	47.12	9.03	56.15	122.20	-66.05	peak
5	5850.000	45.96	9.33	55.29	122.20	-66.91	peak
6	5855.000	47.04	9.35	56.39	110.80	-54.41	peak
7	5875.000	44.99	9.40	54.39	105.20	-50.81	peak
8	5925.000	47.12	9.53	56.65	68.20	-11.55	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5825 MHz		
Ant.Polar.:	Horizontal		



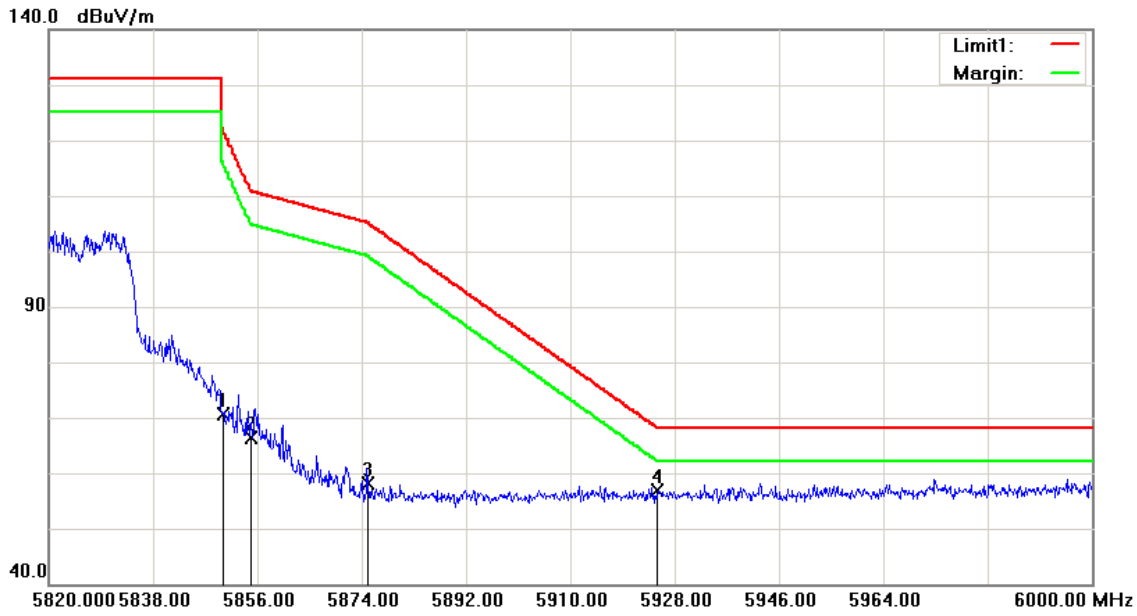
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	61.01	9.33	70.34	122.20	-51.86	peak
2	5855.000	59.57	9.35	68.92	110.80	-41.88	peak
3	5875.000	48.30	9.40	57.70	105.20	-47.50	peak
4	5925.000	46.45	9.53	55.98	68.20	-12.22	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 20MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5825 MHz		
Ant.Polar.:	Vertical		



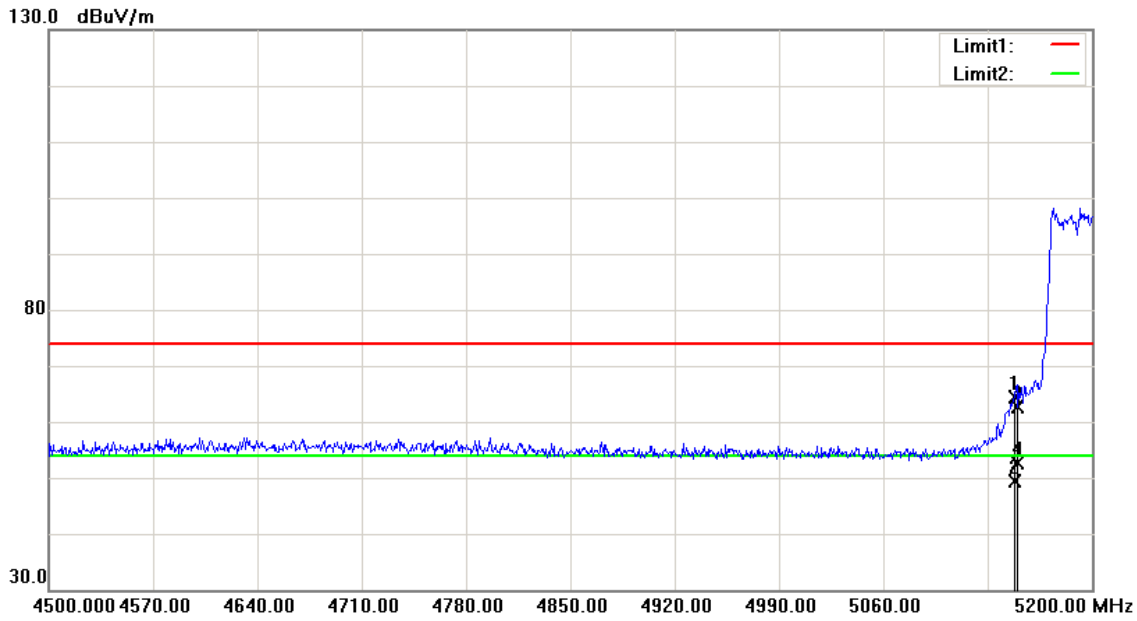
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	61.24	9.33	70.57	122.20	-51.63	peak
2	5855.000	57.14	9.35	66.49	110.80	-44.31	peak
3	5875.000	48.71	9.40	58.11	105.20	-47.09	peak
4	5925.000	47.46	9.53	56.99	68.20	-11.21	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5190 MHz		
Ant.Polar.:	Horizontal		



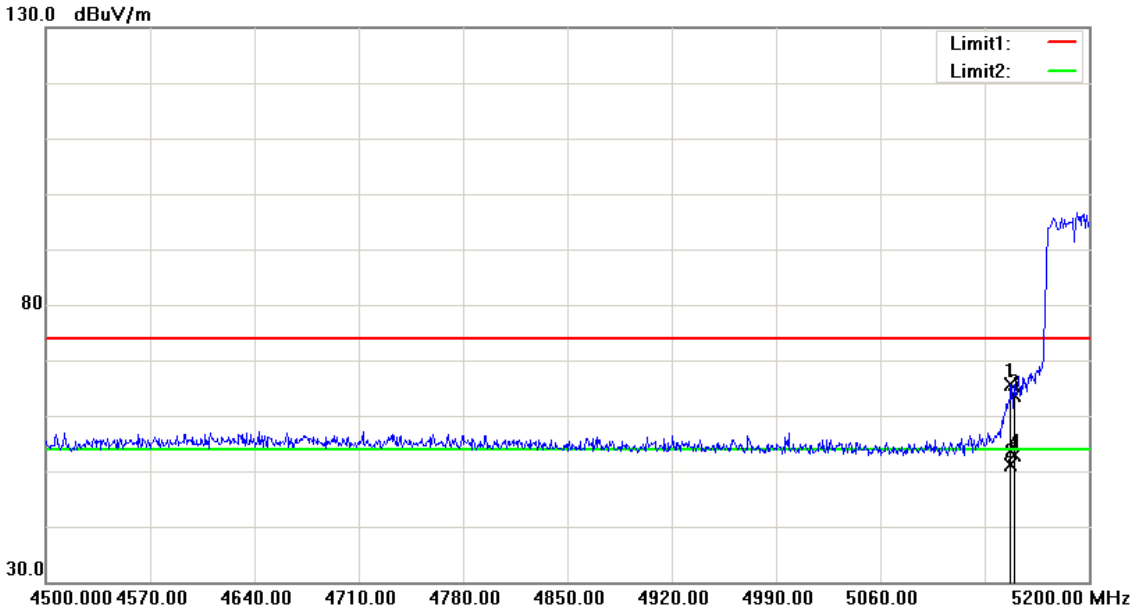
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.200	56.32	8.16	64.48	74.00	-9.52	peak
2	5148.200	41.30	8.16	49.46	54.00	-4.54	AVG
3	5150.000	54.48	8.16	62.64	74.00	-11.36	peak
4	5150.000	44.56	8.16	52.72	54.00	-1.28	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5190 MHz		
Ant.Polar.:	Vertical		



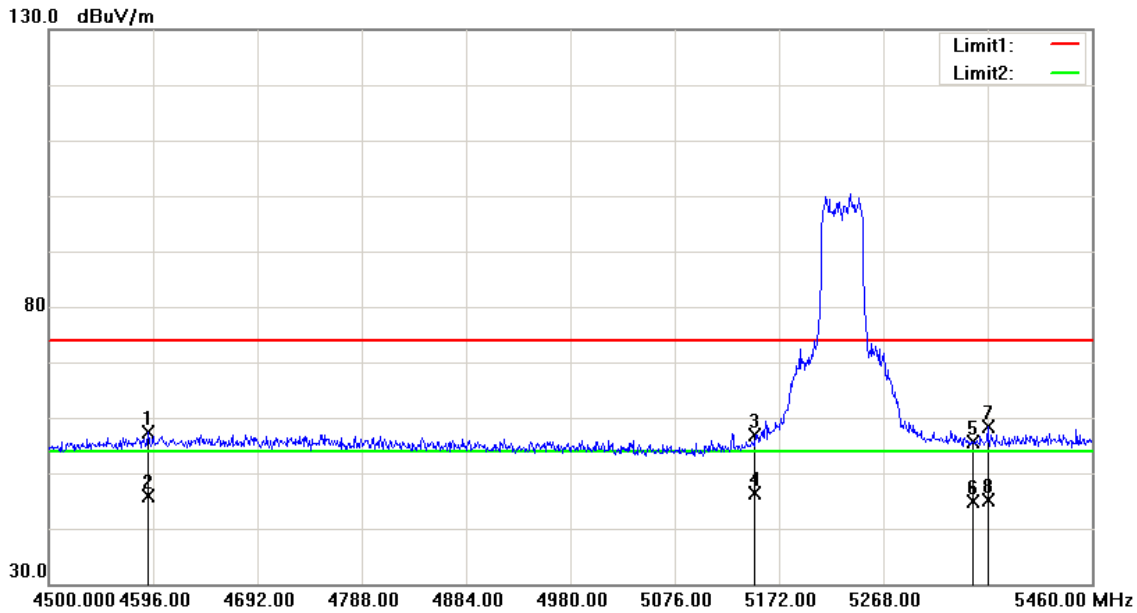
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.500	57.40	8.15	65.55	74.00	-8.45	peak
2	5147.500	43.05	8.15	51.20	54.00	-2.80	AVG
3	5150.000	55.35	8.16	63.51	74.00	-10.49	peak
4	5150.000	44.64	8.16	52.80	54.00	-1.20	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5230 MHz		
Ant.Polar.:	Horizontal		



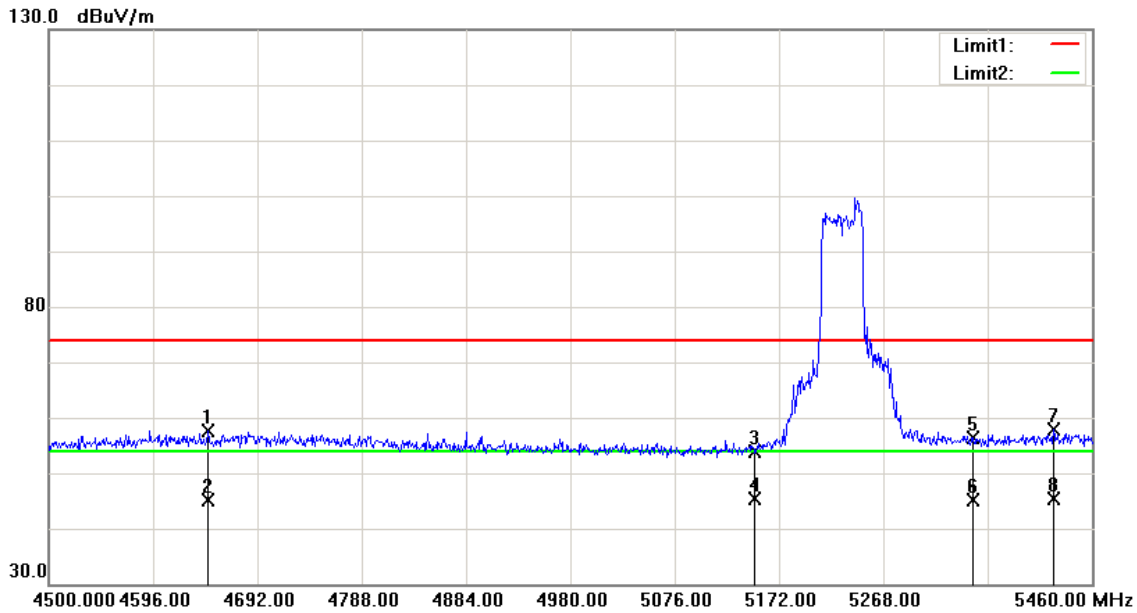
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4591.200	50.78	6.58	57.36	74.00	-16.64	peak
2	4591.200	39.21	6.58	45.79	54.00	-8.21	AVG
3	5150.000	48.78	8.16	56.94	74.00	-17.06	peak
4	5150.000	38.29	8.16	46.45	54.00	-7.55	AVG
5	5350.000	47.40	8.33	55.73	74.00	-18.27	peak
6	5350.000	36.60	8.33	44.93	54.00	-9.07	AVG
7	5364.000	50.07	8.35	58.42	74.00	-15.58	peak
8	5364.000	36.77	8.35	45.12	54.00	-8.88	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5230 MHz		
Ant.Polar.:	Vertical		



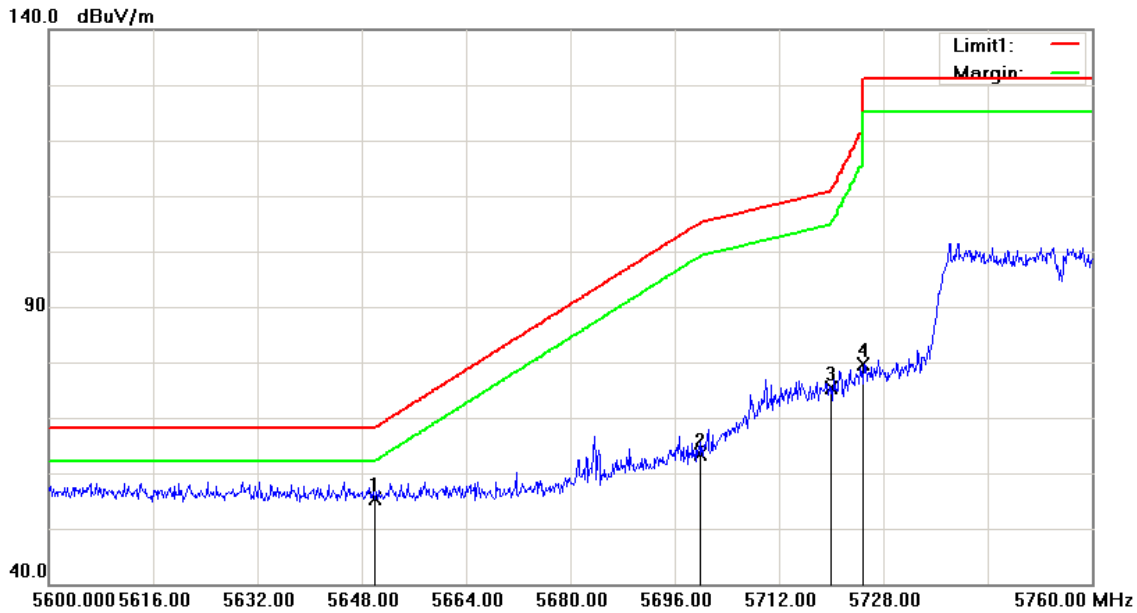
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4646.880	50.76	6.77	57.53	74.00	-16.47	peak
2	4646.880	38.36	6.77	45.13	54.00	-8.87	AVG
3	5150.000	45.82	8.16	53.98	74.00	-20.02	peak
4	5150.000	37.22	8.16	45.38	54.00	-8.62	AVG
5	5350.000	48.12	8.33	56.45	74.00	-17.55	peak
6	5350.000	36.89	8.33	45.22	54.00	-8.78	AVG
7	5424.480	49.41	8.40	57.81	74.00	-16.19	peak
8	5424.480	36.91	8.40	45.31	54.00	-8.69	AVG

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5755 MHz		
Ant.Polar.:	Horizontal		



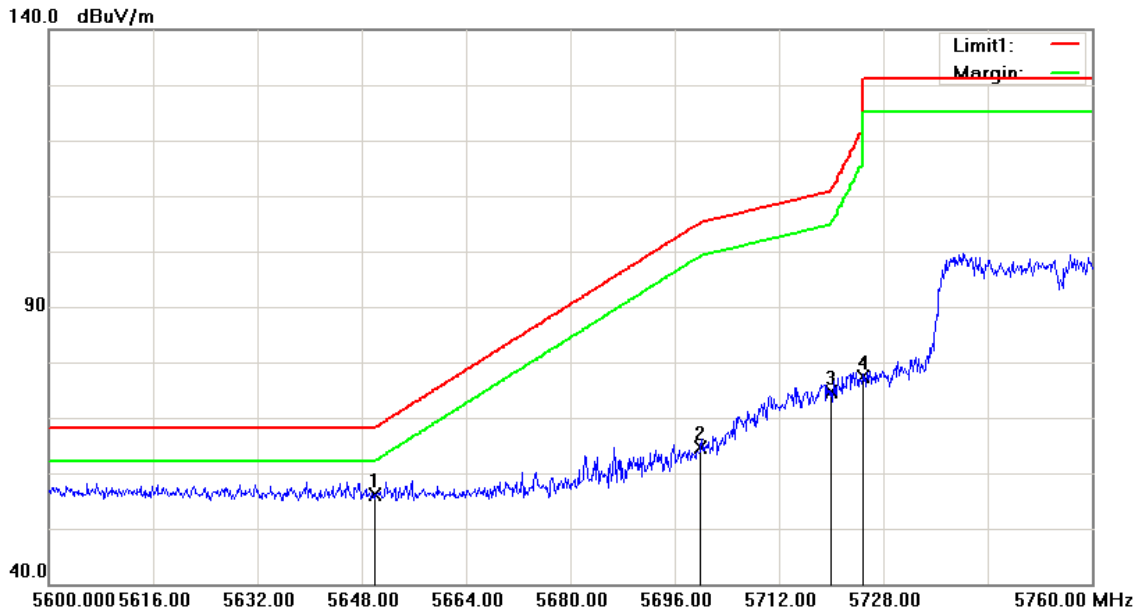
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.65	8.84	55.49	68.20	-12.71	peak
2	5700.000	54.51	8.97	63.48	105.20	-41.72	peak
3	5720.000	66.32	9.01	75.33	110.80	-35.47	peak
4	5725.000	70.61	9.03	79.64	122.20	-42.56	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5755 MHz		
Ant.Polar.:	Vertical		



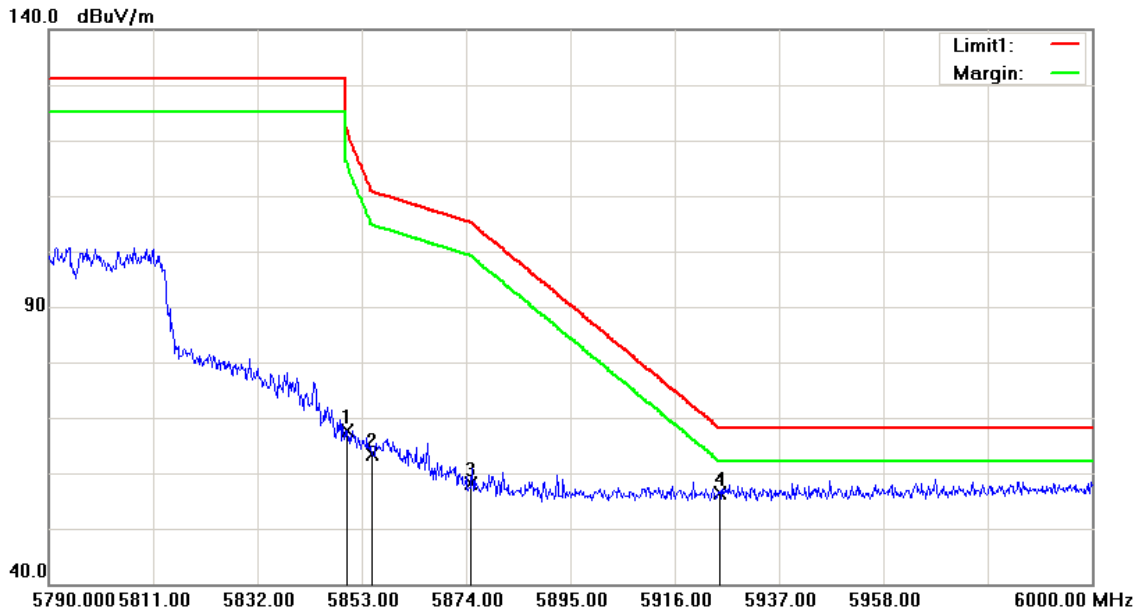
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.22	8.84	56.06	68.20	-12.14	peak
2	5700.000	55.71	8.97	64.68	105.20	-40.52	peak
3	5720.000	65.59	9.01	74.60	110.80	-36.20	peak
4	5725.000	68.32	9.03	77.35	122.20	-44.85	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5795 MHz		
Ant.Polar.:	Horizontal		



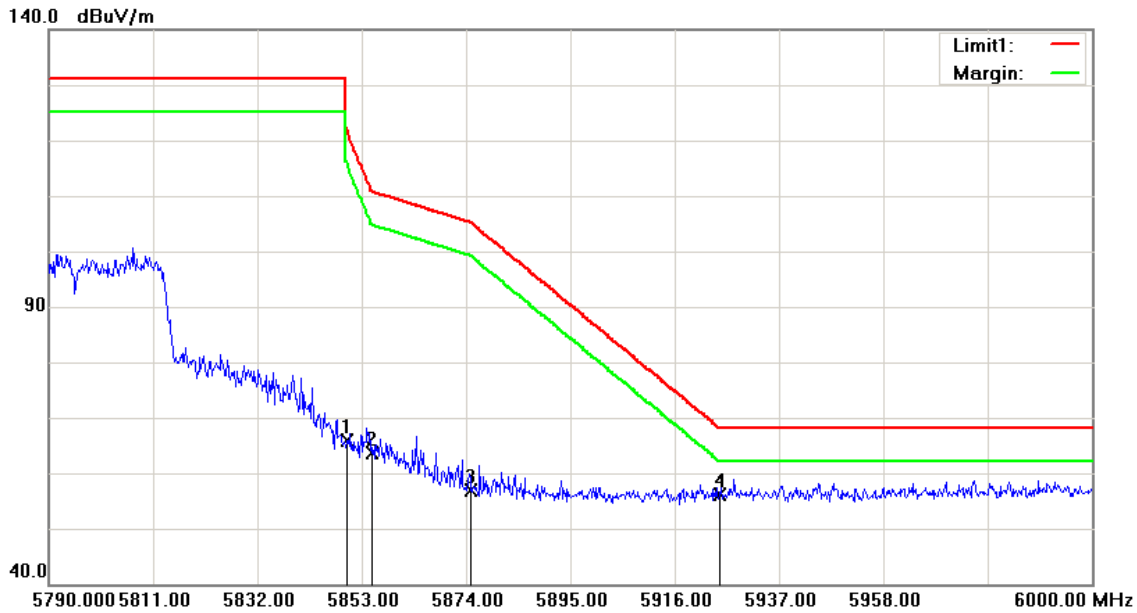
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	58.37	9.33	67.70	122.20	-54.50	peak
2	5855.000	54.12	9.35	63.47	110.80	-47.33	peak
3	5875.000	48.69	9.40	58.09	105.20	-47.11	peak
4	5925.000	46.97	9.53	56.50	68.20	-11.70	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	IEEE 802.11ac 40MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Frequency:	5795 MHz		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	56.64	9.33	65.97	122.20	-56.23	peak
2	5855.000	54.26	9.35	63.61	110.80	-47.19	peak
3	5875.000	47.44	9.40	56.84	105.20	-48.36	peak
4	5925.000	46.63	9.53	56.16	68.20	-12.04	peak

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

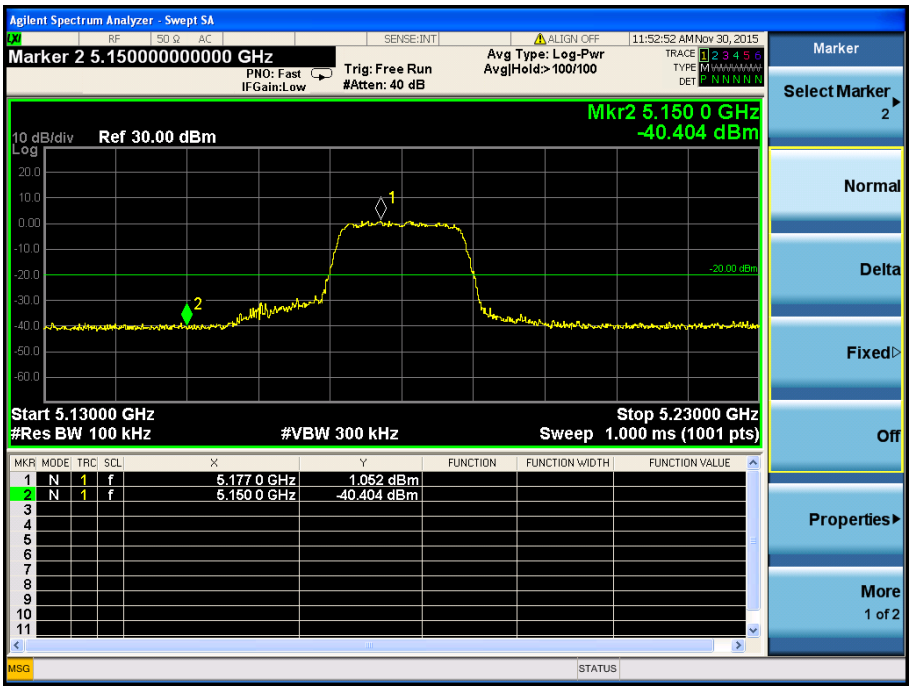
3. When the peak results are less than average limit, so not need to evaluate the average.

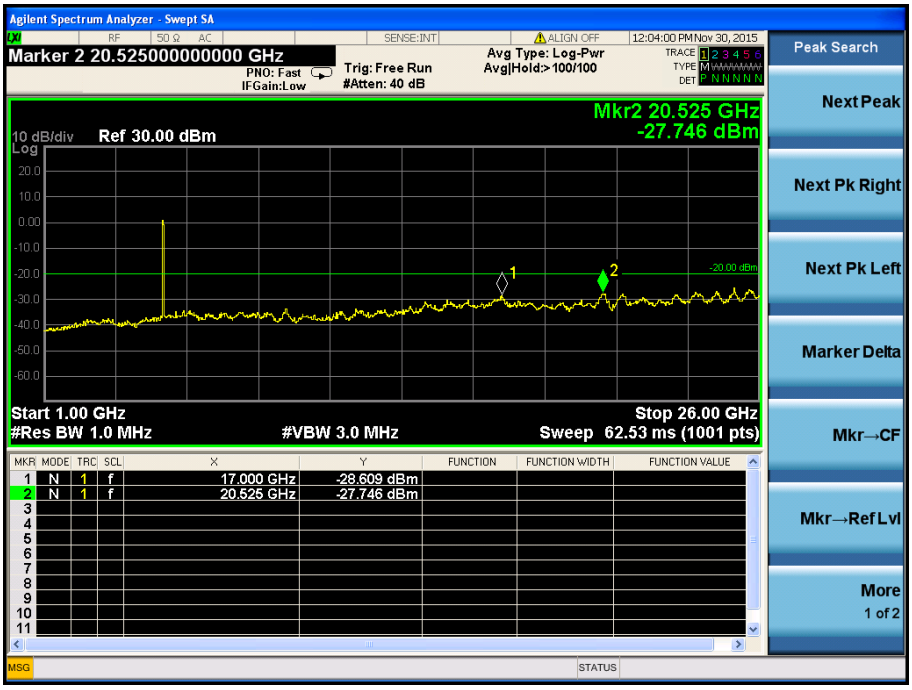
Out-of-Band and Spurious Emission (Conducted)

Antenna 1

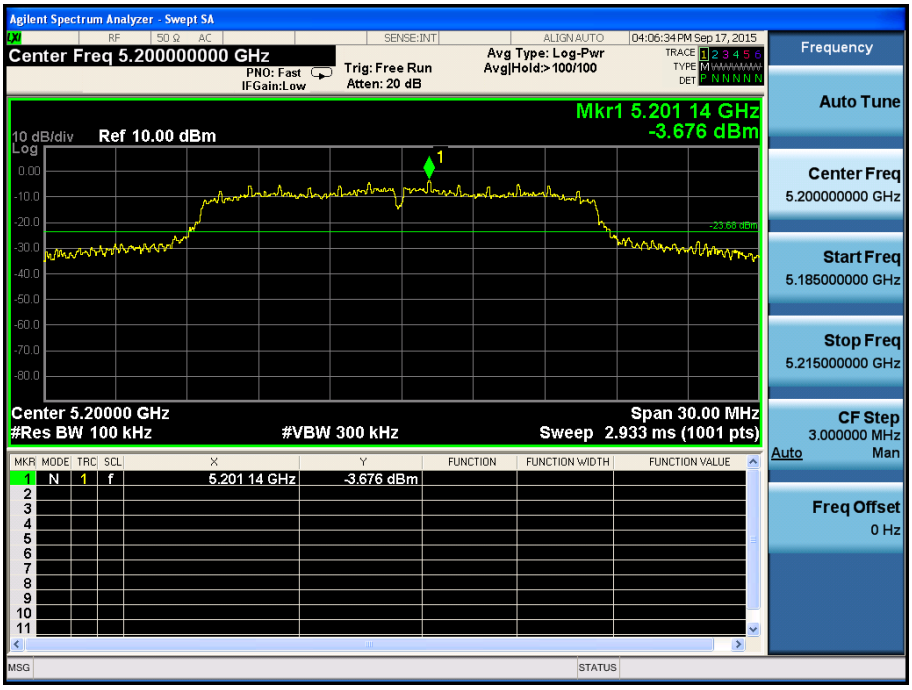
802.11n-HT20

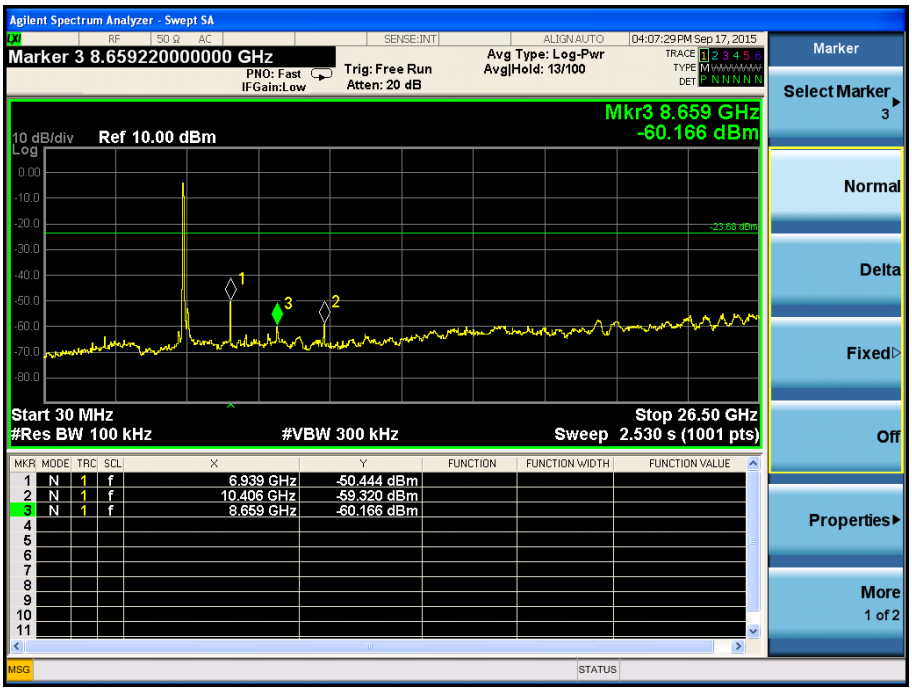
5180MHz



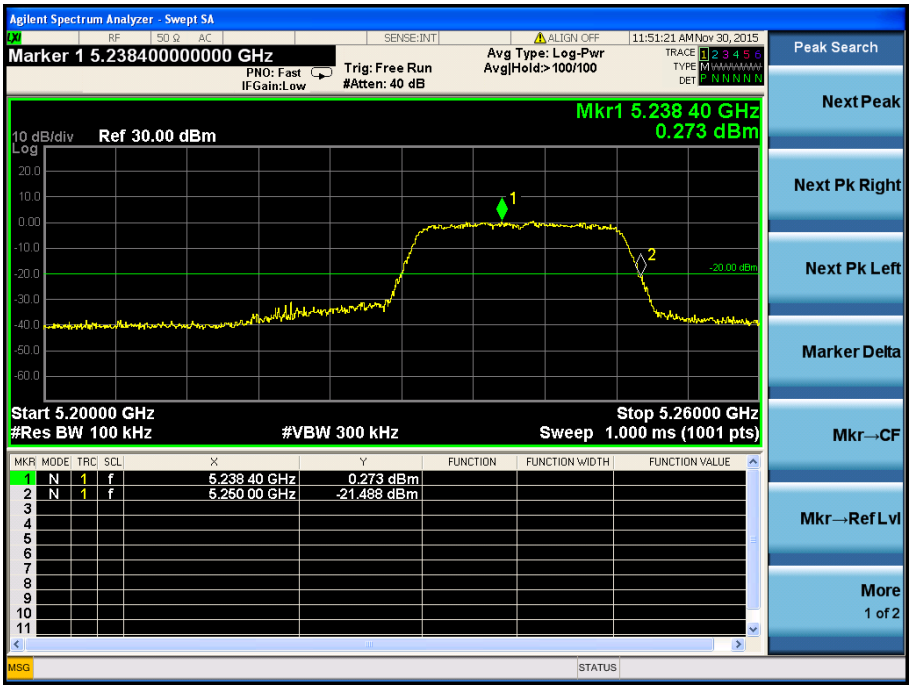


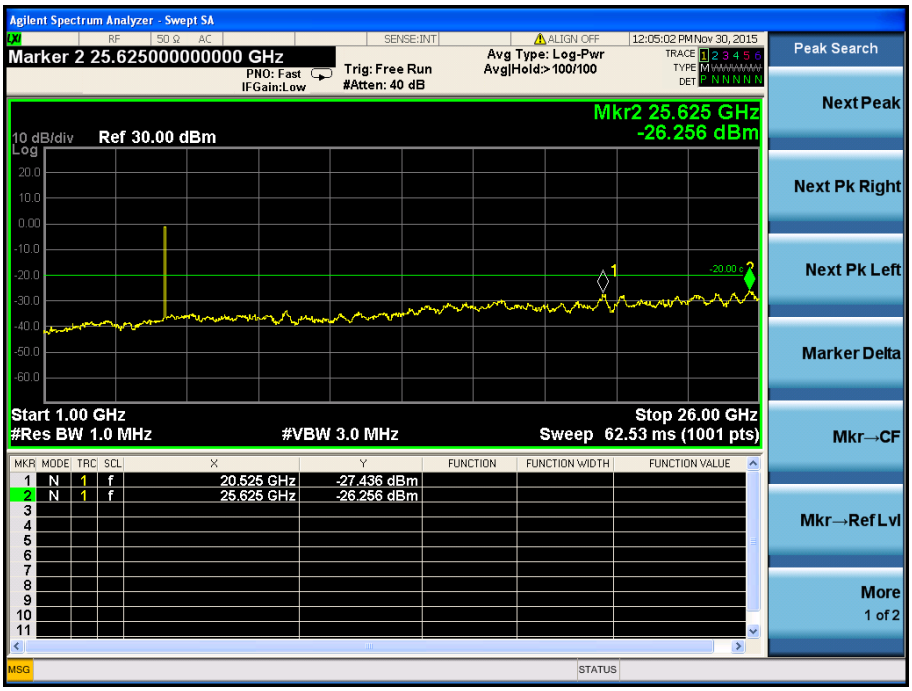
5200MHz


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:06:34 PM Sep 17, 2015
Mkr1 5.201 14 GHz
-3.676 dBm
10 dB/div
Ref 10.00 dBm
Center 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)
1 N 1 f 5.201 14 GHz -3.676 dBm
Frequency
Auto Tune
Center Freq
5.200000000 GHz
Start Freq
5.185000000 GHz
Stop Freq
5.215000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

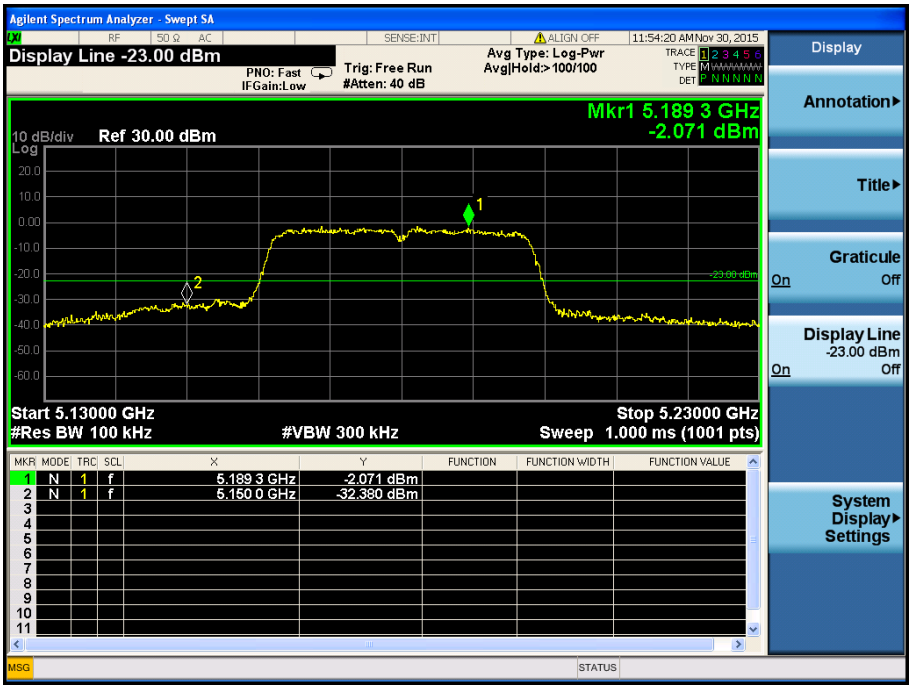

Agilent Spectrum Analyzer - Swept SA
Marker 3 8.659220000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold: 13/100
04:07:29 PM Sep 17, 2015
Mkr3 8.659 GHz
-60.166 dBm
10 dB/div
Ref 10.00 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)
1 N 1 f 6.939 GHz -50.444 dBm
2 N 1 f 10.406 GHz -59.320 dBm
3 N 1 f 8.659 GHz -60.166 dBm
Marker
Select Marker
3
Normal
Delta
Fixed
Off
Properties
More
1 of 2

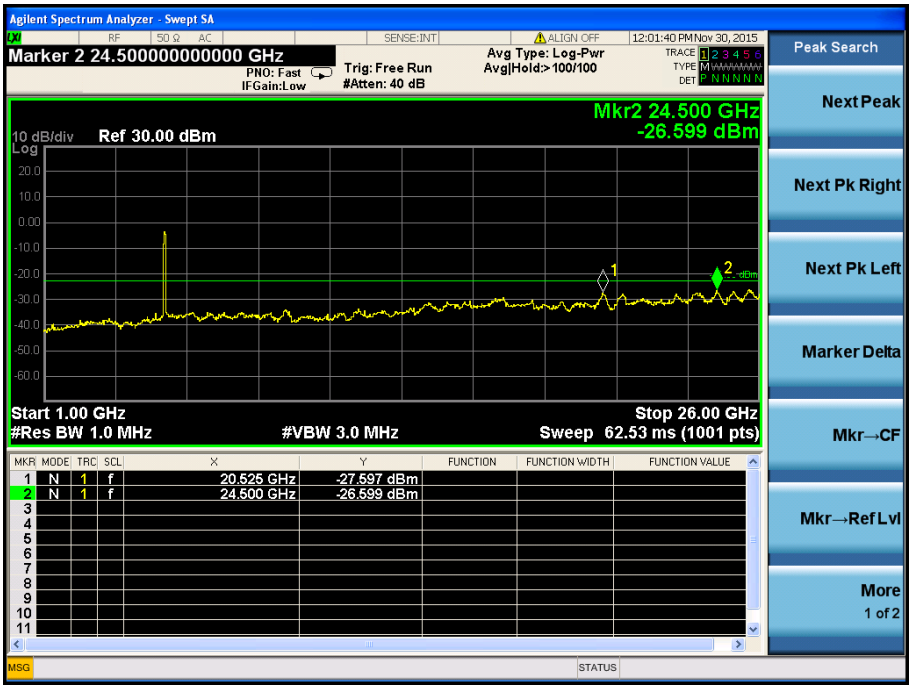
5240MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 5.238400000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:51:21 AM Nov 30, 2015
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Mkr1 5.238 40 GHz
0.273 dBm
10 dB/div
Ref 30.00 dBm
Log
-20.00 dBm
Start 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.26000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.238 40 GHz 0.273 dBm
2 N 1 f 5.250 00 GHz -21.488 dBm
MSG
STATUS

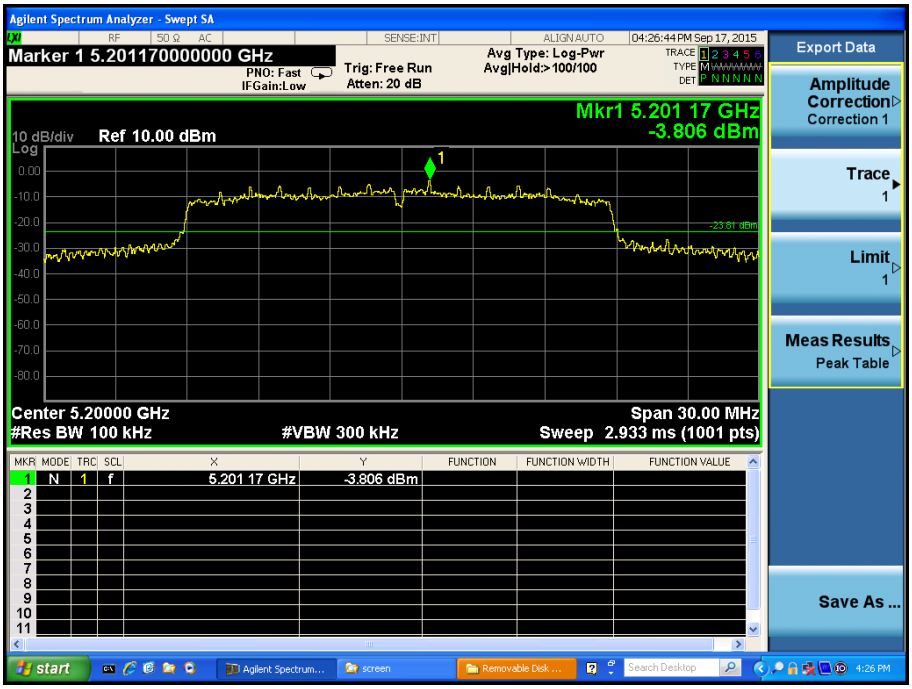

Agilent Spectrum Analyzer - Swept SA
Marker 2 25.625000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:05:02 PM Nov 30, 2015
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Mkr2 25.625 GHz
-26.256 dBm
10 dB/div
Ref 30.00 dBm
Log
-20.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.00 GHz
Sweep 62.53 ms (1001 pts)
1 N 1 f 20.525 GHz -27.436 dBm
2 N 1 f 25.625 GHz -26.256 dBm
MSG
STATUS

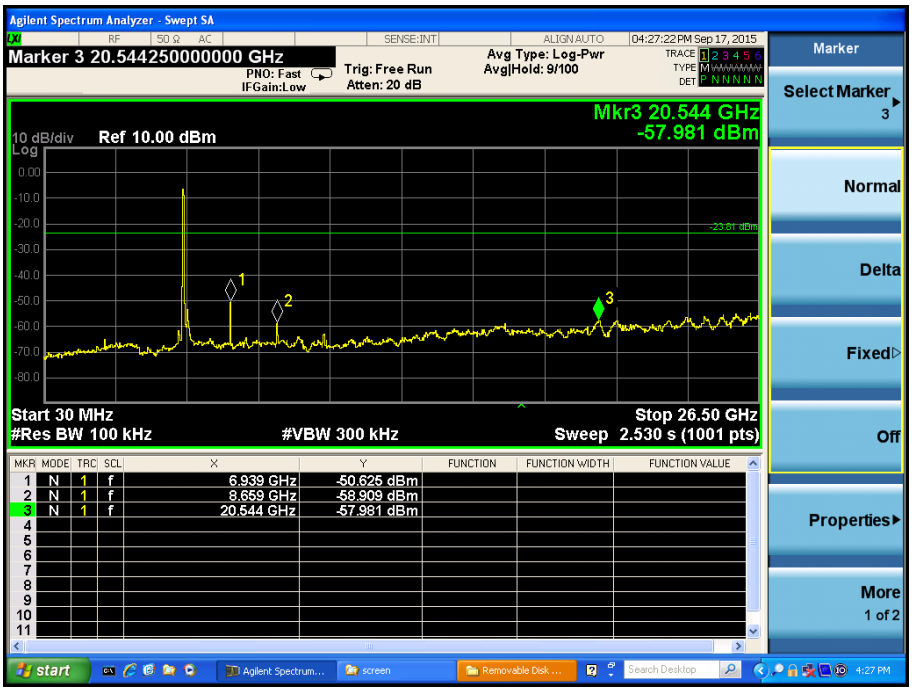
802.11n-HT40
5190MHz



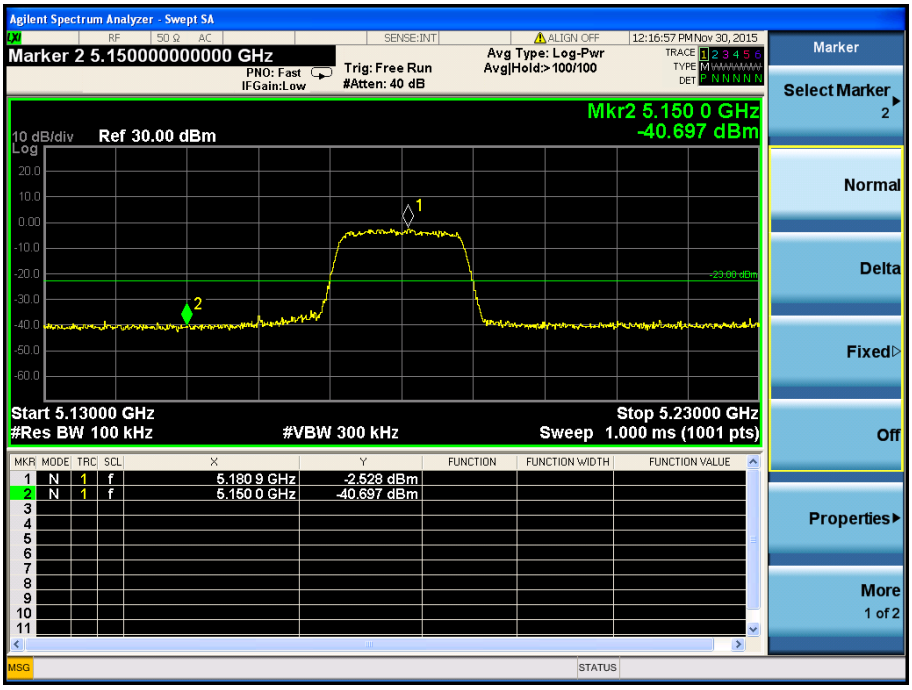


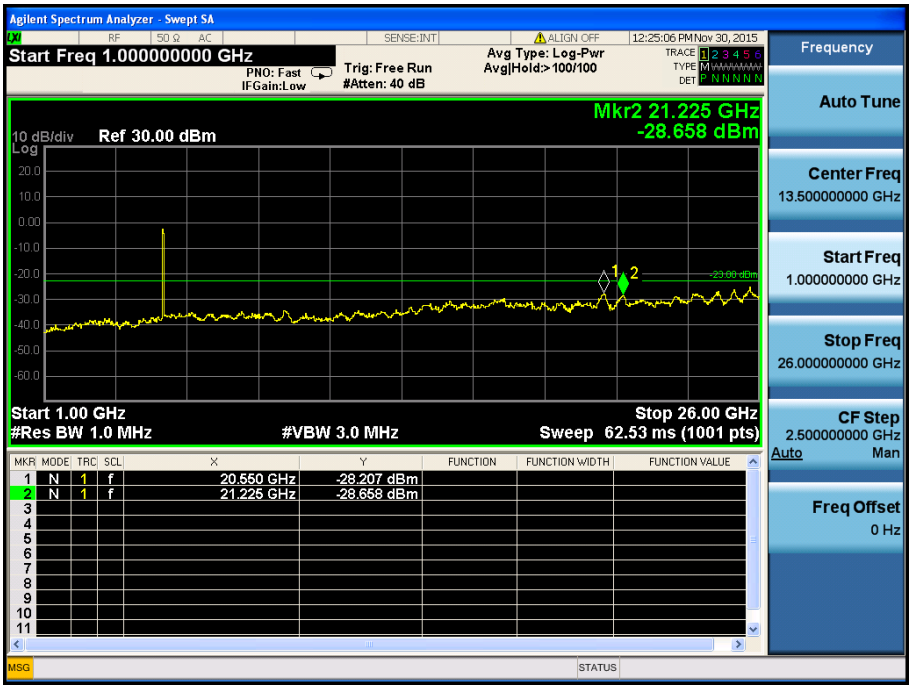
5230MHz


Agilent Spectrum Analyzer - Swept SA
Marker 1 5.201170000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:26:44 PM Sep 17, 2015
Mkr1 5.201 17 GHz
-3.806 dBm
10 dB/div
Ref 10.00 dBm
Log
Center 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)
1 N 1 f 5.201 17 GHz -3.806 dBm
Export Data
Amplitude Correction
Correction 1
Trace 1
Limit 1
Meas Results
Peak Table
Save As ...

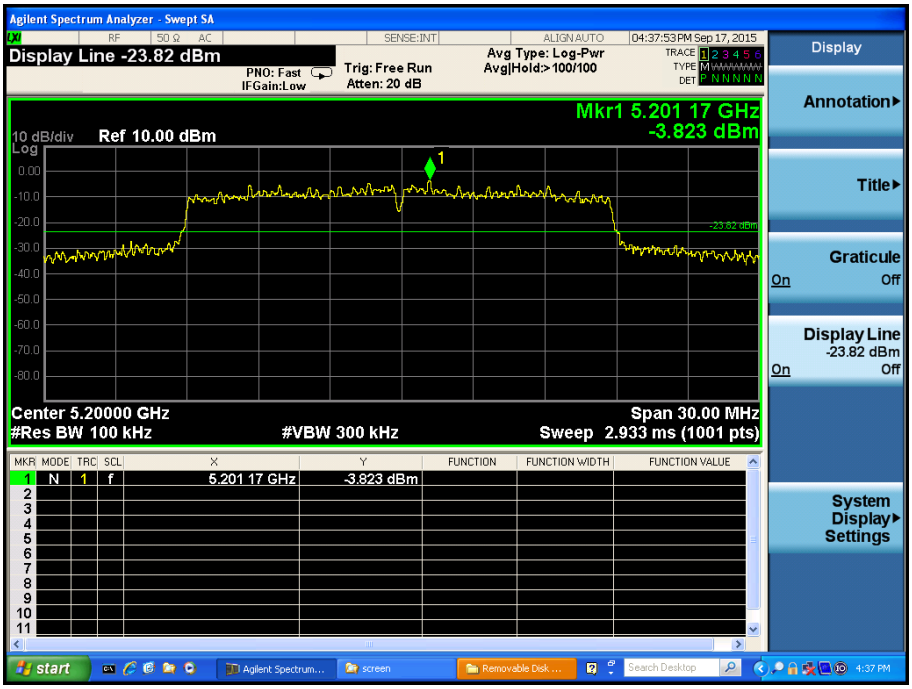

Agilent Spectrum Analyzer - Swept SA
Marker 3 20.544250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold: 9/100
04:27:22 PM Sep 17, 2015
Mkr3 20.544 GHz
-57.981 dBm
10 dB/div
Ref 10.00 dBm
Log
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)
1 N 1 f 6.939 GHz -50.625 dBm
2 N 1 f 8.659 GHz -58.909 dBm
3 N 1 f 20.544 GHz -57.981 dBm
Marker
Select Marker 3
Normal
Delta
Fixed
Off
Properties
More 1 of 2

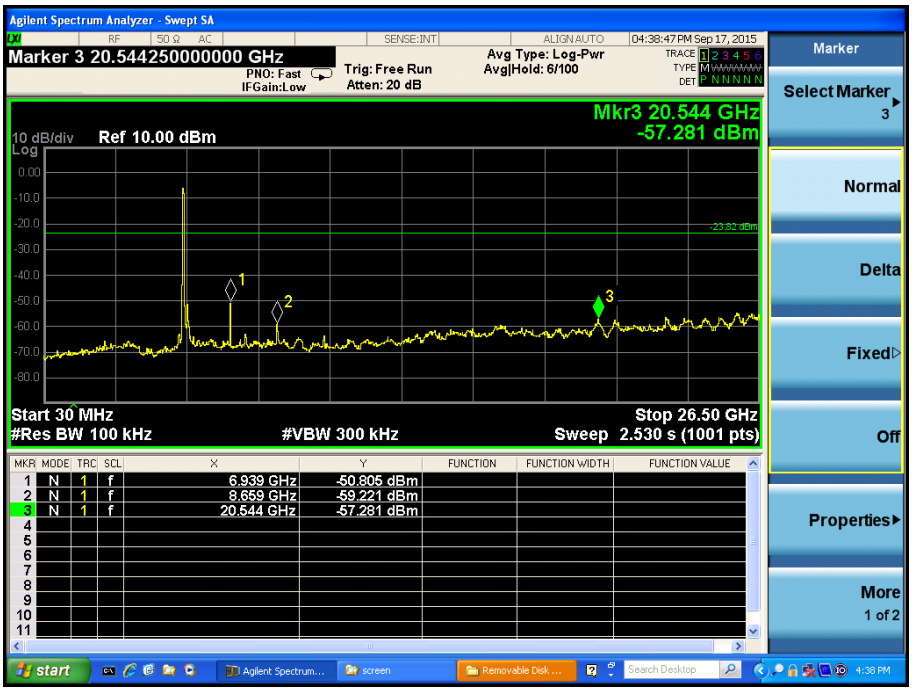
Antenna 2
802.11n-HT20
5180MHz



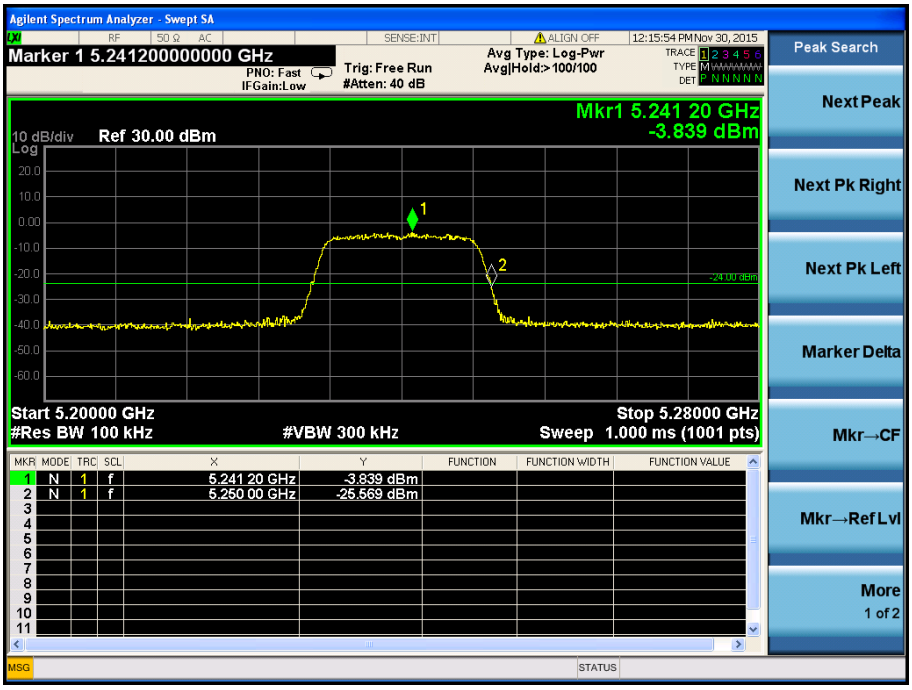


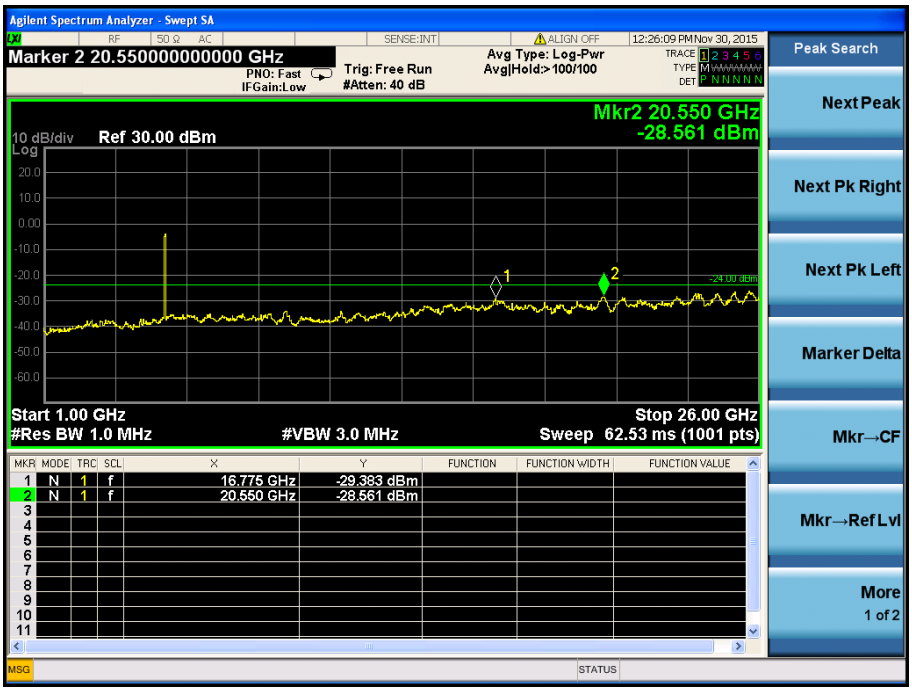
5200MHz


Agilent Spectrum Analyzer - Swept SA
Display Line -23.82 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:37:53 PM Sep 17, 2015
Mkr1 5.201 17 GHz
-3.823 dBm
10 dB/div
Ref 10.00 dBm
Log
Center 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)
1 N 1 f 5.201 17 GHz -3.823 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-23.82 dBm
On Off
System
Display
Settings


Agilent Spectrum Analyzer - Swept SA
Marker 3 20.544250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold: 6/100
04:38:47 PM Sep 17, 2015
Mkr3 20.544 GHz
-57.281 dBm
10 dB/div
Ref 10.00 dBm
Log
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)
1 N 1 f 6.939 GHz -50.805 dBm
2 N 1 f 8.659 GHz -59.221 dBm
3 N 1 f 20.544 GHz -57.281 dBm
Marker
Select Marker
3
Normal
Delta
Fixed
Off
Properties
More
1 of 2

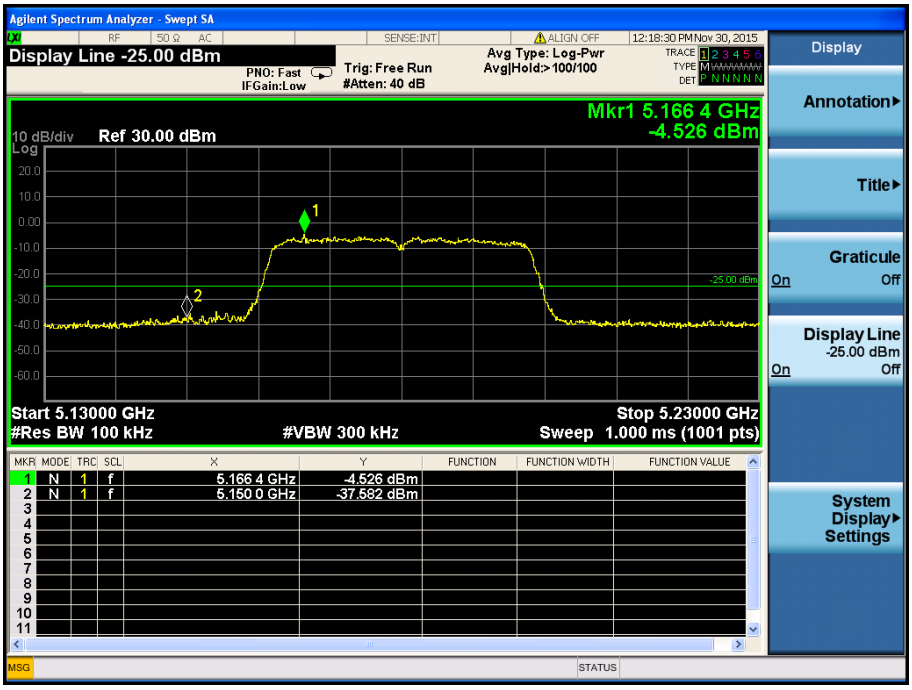
5240MHz

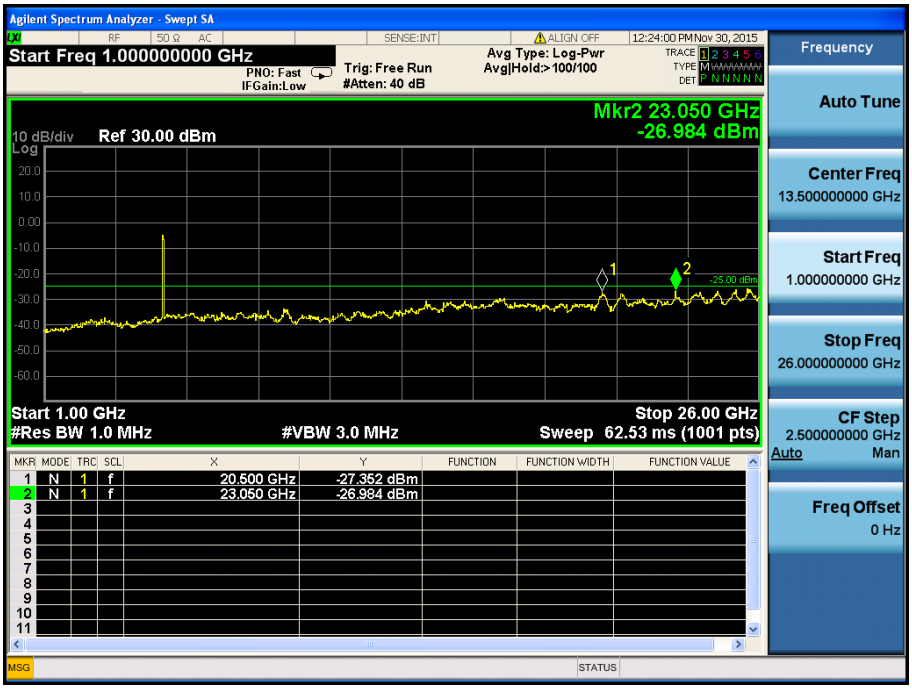

Agilent Spectrum Analyzer - Swept SA
Marker 1 5.241200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:15:54 PM Nov 30, 2015
Mkr1 5.241 20 GHz
-3.839 dBm
10 dB/div
Log
Ref 30.00 dBm
Start 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.28000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.241 20 GHz -3.839 dBm
2 N 1 f 5.250 00 GHz -25.569 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 2 20.550000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:26:09 PM Nov 30, 2015
Mkr2 20.550 GHz
-28.561 dBm
10 dB/div
Log
Ref 30.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.00 GHz
Sweep 62.53 ms (1001 pts)
1 N 1 f 16.775 GHz -29.383 dBm
2 N 1 f 20.550 GHz -28.561 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

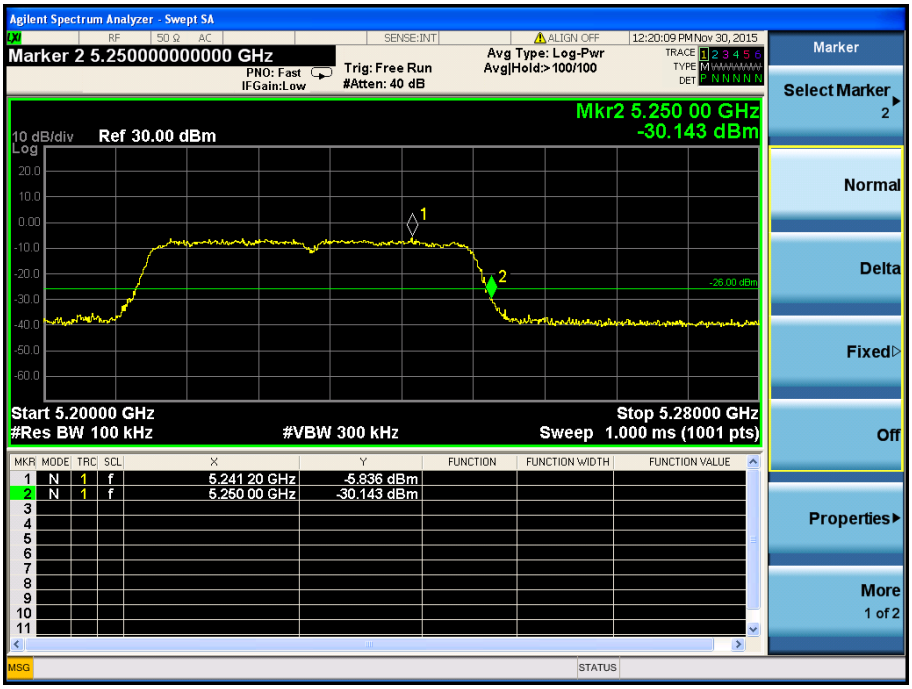
802.11n-HT40

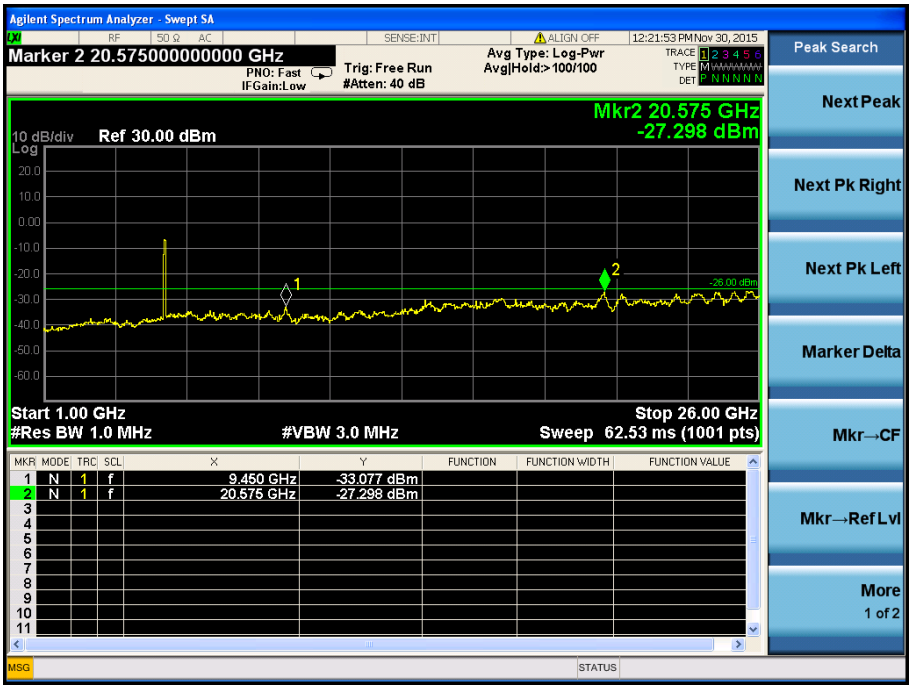
5190MHz





5230MHz


Agilent Spectrum Analyzer - Swept SA
Marker 2 5.250000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:20:09 PM Nov 30, 2015
Mkr2 5.250 00 GHz
-30.143 dBm
10 dB/div
Ref 30.00 dBm
Log
-26.00 dBm
Start 5.20000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.28000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.241 20 GHz -5.836 dBm
2 N 1 f 5.250 00 GHz -30.143 dBm
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 2 20.575000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:21:53 PM Nov 30, 2015
Mkr2 20.575 GHz
-27.298 dBm
10 dB/div
Ref 30.00 dBm
Log
-26.00 dBm
Start 1.00 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.00 GHz
Sweep 62.53 ms (1001 pts)
1 N 1 f 9.450 GHz -33.077 dBm
2 N 1 f 20.575 GHz -27.298 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More 1 of 2

10. Frequency Stability

10.1 Standard Applicable

According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10.2 Test Procedure

According to §2.1055, the following test procedure was performed.
The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.
The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

Temperature:	Supply Voltage
20°C	85-115% of declared nominal voltage
-30°C to +50°C	Normal

10.3 Environmental Conditions

Temperature:	20°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

10.4 Summary of Test Results/Plots

5150-5250MHz

802.11n_HT20

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (℃)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.3	141	0.0269
40	3.3	128	0.0244
30	3.3	124	0.0237
20	3.3	154	0.0294
10	3.3	114	0.0218
0	3.3	134	0.0256
-10	3.3	147	0.0281
-20	3.3	118	0.0225
-30	3.3	126	0.0240

802.11n_HT40

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (℃)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	3.3	141	0.0270
40	3.3	145	0.0277
30	3.3	141	0.0270
20	3.3	131	0.0250
10	3.3	148	0.0283
0	3.3	152	0.0291
-10	3.3	158	0.0302
-20	3.3	151	0.0289
-30	3.3	149	0.0285

So, Frequency Stability Versus Input Voltage is:

5150-5250MHz

802.11n_HT20

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (°C)	Power Supplied (VAC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	2.8	145	0.0277
	3.3	148	0.0282
	3.8	152	0.0290

802.11n_HT40

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (°C)	Power Supplied (VAC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	2.8	145	0.0257
	3.3	148	0.0268
	3.8	152	0.0284

******* END OF REPORT *******