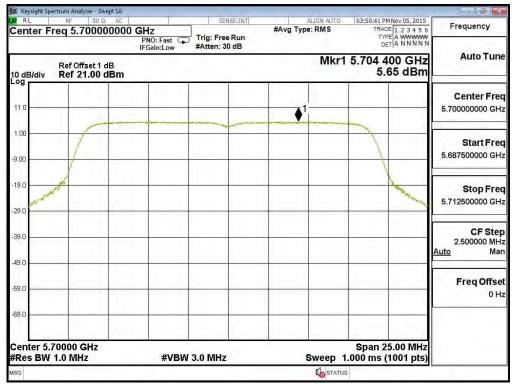


| Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC | | CENCERNIT | ALIGN AUTO | | |
|--|--------------------|---------------------------------|----------------|--|--|
| Center Freq 5.580000000 | GHz PNO: Fast G | Trig: Free Run #Atten: 30 dB | #Avg Type: RMS | 03:49:14 PM Nov 05, 20 TRACE 1 2 3 4 TYPE A WWW DET A N N N | 5.6 Frequency |
| Ref Offset 1 dB 0 dB/div Ref 21.00 dBm | II Gam.Low | | Mkr1 | 5.575 850 GI 5.93 dB | Hz Auto Tune m |
| og | •1- | | | | Center Free 5.580000000 GH |
| 2.00 | | | | | Start Free 5.567500000 GH |
| 19.0 | | | | h | Stop Fre |
| 90 | | | | | CF Stej 2.500000 MH <u>Auto</u> Ma |
| 9,0 | | | | | Freq Offse 0 H |
| 89.0 Center 5.58000 GHz | | | | Span 25.00 M | Hz |
| Res BW 1.0 MHz | #VBV | V 3.0 MHz | Sweep 1 | .000 ms (1001 p | ts) |

Channel 116: (Chain B)

Channel 140: (Chain B)

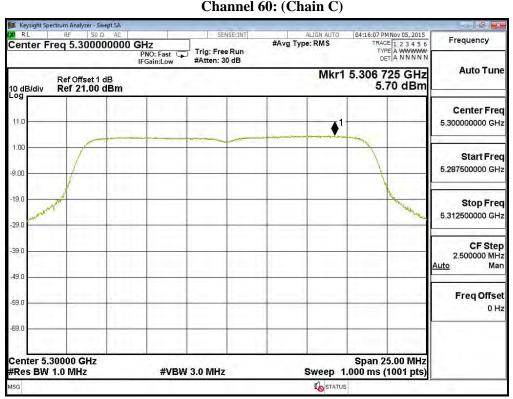




| - 2 2 | | 2: (Chain C) | Chamler | | rum Analyzer - Swept SA | Kouright S |
|----------------------------------|---|------------------------------|---------------|------------|--|--------------------|
| Frequency | 04:14:50 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | ALIGN AUTO #Avg Type: RMS | SENSE(INT | PNO: Fast | RF 50 Ω AC q 5.2600000000 AC | RL |
| Auto Tun | 5.264 600 GHz 5.88 dBm | Mkr1 | #Atten: 30 dB | IFGain:Low | Ref Offset 1 dB Ref 21.00 dBm | 0 dB/div |
| Center Fre 5.260000000 GH | | • | | | | .og |
| Start Fre 5.247500000 GH | | | | | 1 | 1.00 3.00 |
| Stop Fre 5.272500000 GH | the martine weeks | | | | | 19.0 29.0 |
| CF Ste 2.500000 MH Auto Ma | | | | | | 19.0 |
| Freq Offse 0 H | | | | | | 9.0 |
| | Span 25.00 MHz 00 ms (1001 pts) | Sween 1 | 3.0 MHz | #\/B\A(| | 69.0 Center 5.2 |
| | | STATUS | | **** | | ISG |

Channel 52: (Chain C)

Channel 60: (Chain C)





| | | | 041 (C | Chaimer | | | | |
|------------------------|--|--|--------------------------------|---------------|---------------------|-----------|---------------------------|-------------|
| | Contraction of the Contraction o | | | | - | | ctrum Analyzer - Si | |
| Frequency | 07:12:02 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | ALIGN AUTO /pe: RMS old:>100/100 | | SENSE:INT | GHz PNO: Fast 😱 | | RF 50 9 req 5.3200 | enter Fi |
| Auto Tun | | Mind | | #Atten: 30 dB | IFGain:Low | | | |
| | 5.326 275 GHz 6.124 dBm | IVIKT I | | <u></u> | 1.1 | | Ref Offset 1 Ref 20.50 | 0 dB/div |
| Center Fre | 10.0 | | | | | | | |
| 5.320000000 GH | | 1 1 | - The star by the surgery star | | | | 11.3 | 10.5 |
| Start Fre | | | | | | | | 500 |
| 5.307500000 GH | | | - | | | | / | 9.50 |
| Stop Fre | hun | | | | 1.0 | 1 | and the second second | 19.5 |
| 5.332500000 GH | Murrow | - | | | | | 2 | 29.5 |
| CF Ste | : *t [| | | | | 11:1: | | 39.5 |
| 2.500000 MH Auto Ma | | | | | | | | 49.5 |
| Freq Offse | 1 | | | | 1 1 1 1 | | . I I | 40.0 |
| 0 H | | | | | | | | 59.5 |
| | - | | | | | | _ | 69.5 |
| | Span 25.00 MHz | 0 | | 0.0.MU-t | | | 2000 GHz | |
| | 000 ms (1001 pts) | | _ | 3.0 MHz* | 141 Z. (20. 7. 7. 1 | | 1021454949 | Res BW |
| | | STATUS | | | 1 | NG> saved | PICTURE.PN | sg 🥹 File < |

Channel 64: (Chain C)

Channel 100: (Chain C)

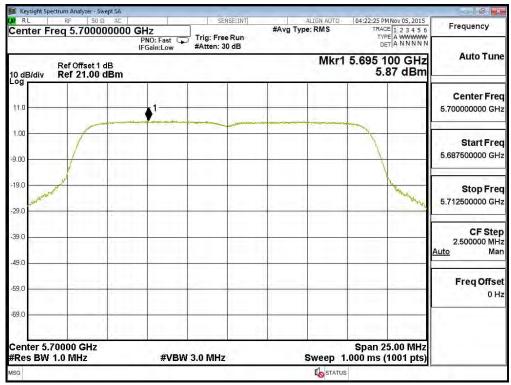
| | | | | | ectrum Analyzer - Swept SA | |
|----------------------------------|--|--|-----------|----------------|--|----------------------|
| Frequency | 04:19:08 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 | ALIGN AUTO | SENSE(INT | | | RL |
| 1.5 | TYPE A WWWWW | PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB | | req 5.50000000 | Senter F | |
| Auto Tun | 5.502 300 GHz 5.60 dBm | Mkr1 | | | Ref Offset 1 dB Ref 21.00 dBm | 10 dB/div |
| Center Fre 5.50000000 GH | | | | | | 11.0 |
| Start Fre 5.487500000 G⊦ | | | | | 1 | 9.00 |
| Stop Fre 5.512500000 GH | and the second s | | | | where a start of the start of t | 19.0 29.0 Jawwww. |
| CF Ste 2.500000 MH Auto Ma | | | | | | 19.0 |
| Freq Offs 0 H | | | | | | 9.0 |
| | | | | | | 69.0 |
| | Span 25.00 MHz .000 ms (1001 pts) | Sweep 1. | 3.0 MHz | #VBW | 50000 GHz 1.0 MHz | Center 5. #Res BW |
| | | STATUS | | | | ASG |



| | | 100 | | | | | etrum Analyzer - S | | | |
|----------------------------|---|--------|------------|--------------|-----------------------|---|---------------------|-----------|--|--|
| Frequency | 09 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | TRA | ALIGN AUTO | SENSE:INT | Hz PNO: Fast 😱 | Ω AC | RF 50 req 5.5800 | enter Fi | | |
| Auto Tun | 5 675 GHz | - | Mired | Atten: 30 dB | FGain:Low | | | _ | | |
| | 6.07 dBm | | | | | Ref Offset 1 dB 0 dB/div Ref 21.00 dBm | | | | |
| Center Fre | 1.1 | | | | | | 1111 | | | |
| 5.58000000 GH | | | | | ♦ ¹ | | | 11.0 | | |
| Start Fre | | 1 | | | | | F | .00 | | |
| 5.567500000 G | | | | | | | 1 | 3.00 | | |
| | X | | | | | | 1 | 9.0 | | |
| Stop Fre 5.592500000 GH | and and and a series of the | | | | | | 10 | 29.0 | | |
| CF Ste | | | | | | 1.27 | | | | |
| 2.500000 MH Auto Ma | | | | | | | 1 | 19.0 | | |
| Freq Offse | | | | | | | | 49.0 | | |
| 0 H | | | | | - | • | | 59.0 | | |
| | _ | | | | | | | 69.0 | | |
| | n 25.00 MHz ns (1001 pts) | Span : | Swoon | 0 MU2 | #VBW | | 58000 GHz | enter 5.4 | | |
| | is (TOUT PLS) | | Sweep I | | #VOVV | | | SG SG | | |

Channel 116: (Chain C)

Channel 140: (Chain C)





| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Peak Power Spectral Density |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) |

| Channel Number | Frequency (MHz) | Chain | PPSD/MHz (dBm) | Total PPSD/MHz (dBm) | Required Limit (dBm) | Result |
|-------------------|--------------------|-------|-------------------|----------------------------|-------------------------|--------|
| | | А | 3.797 | 8.568 | <11 | Pass |
| 54 | 5270 | В | 4.014 | 8.785 | <11 | Pass |
| | | С | 4.167 | 8.938 | <11 | Pass |
| | | А | 2.190 | 6.961 | <11 | Pass |
| 62 | 5310 | В | 2.810 | 7.581 | <11 | Pass |
| | | С | 2.220 | 6.991 | <11 | Pass |
| | | А | 2.920 | 7.691 | <11 | Pass |
| 102 | 5510 | В | 2.640 | 7.411 | <11 | Pass |
| | | С | 1.920 | 6.691 | <11 | Pass |
| | | А | 4.420 | 9.191 | <11 | Pass |
| 110 | 5550 | В | 4.570 | 9.341 | <11 | Pass |
| | | С | 3.880 | 8.651 | <11 | Pass |
| | | А | 4.000 | 8.771 | <11 | Pass |
| 134 | 5670 | В | 3.760 | 8.531 | <11 | Pass |
| | | С | 3.650 | 8.421 | <11 | Pass |

5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Note: 1.The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.

2.Total PPSD Value = PPSD/MHz value + $10*\log 3$ (three antennas).



| #Res BW 1.0 MHz | #VBW | 3.0 MHz* | Sweep 1 | .000 ms (1001 pts) | |
|--|------------|---------------------|-------------------------------------|---|-------------------------------|
| Center 5.27000 GHz | | | A standa | Span 50.00 MHz | |
| | | | | 2.000 (1.000) | |
| -69.0 | | | | | |
| -59,0 | | | + + | | 0 Hz |
| 40.0 | | | | 1 | Freq Offset |
| -49.0 | | | | | <u>Auto</u> Man |
| -39.0 | | | | | CF Step 5.000000 MHz |
| -29.0 | | | | - Anton | |
| -19.0 | 1 1 1 2 1 | | | The second | Stop Freq 5.29500000 GHz |
| | | | | | |
| -9.00 | | | | | Start Fred 5.245000000 GHz |
| 1.00 | | and an and a second | and any support and an and a second | | 01 |
| 11.0 | | | 1 | | 5.270000000 GHz |
| | 64 (H C | | 11911 | | Center Freq |
| Ref Offset 1 dB 10 dB/div Ref 21.00 dBm Log | | ê L | Mkr | 1 5.282 15 GHz 3.797 dBm | Auto Tune |
| | IFGain:Low | #Atten: 30 dB | and the second second | | Auto Tune |
| Center Freq 5.2700000 | PNO: Fast | Trig: Free Run | Avg Type: RMS Avg Hold:>100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC | 1 1- | SENSE(INT | ALIGN AUTO | 06:50:53 PM Nov 05, 2015 | |

Channel 54: (Chain A)

Channel 62: (Chain A)

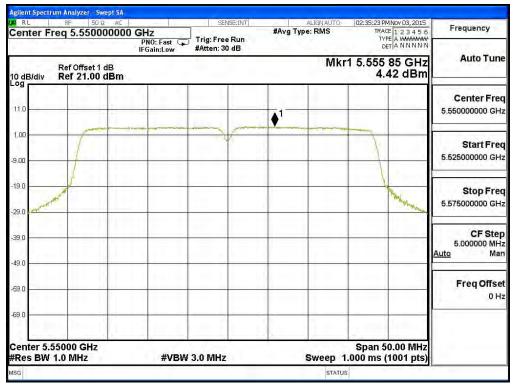
| RL RF 50 Q AC | | SENSE:INT | ALIGN AU | TO 02:31:43 PM Nov 03, 2015 | |
|---|------------------------------------|---------------------------------|----------------|--|----------------------------------|
| enter Freq 5.3100000 | O GHz PNO: Fast 😱 IEGain:Low | Trig: Free Run #Atten: 30 dB | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N | Frequency |
| Ref Offset 1 dB 0 dB/div Ref 21.00 dBm | ii Gam.cow | | N | /kr1 5.318 55 GHz 2.19 dBm | Auto Tune |
| 11.0 | | | ▲1 | | Center Free 5.310000000 GH: |
| 9.00 | | Y | | | Start Free 5.285000000 GH |
| 29.0 | | | | | Stop Free 5.335000000 GH |
| 49.0 | | | | | CF Ste 5.000000 MH Auto Ma |
| 59.0 | | | | | Freq Offse 0 H |
| 69.0 | | | | Span 50.00 MHz | |
| Res BW 1.0 MHz | #VBW | 3.0 MHz | | p 1.000 ms (1001 pts) | |



| Agilent Spectrum Analyzer - Swe | | | | | |
|---|-----------------------|---------------|-----------------------------|---|-------------------------------------|
| RL RF 50 Ω Center Freq 5.51000 | | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 02:33:40 PMNov 03, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N | Frequency |
| | IFGain:Low | #Atten: 30 dB | 641 | | Auto Tune |
| Ref Offset 1 d 10 dB/div Ref 21.00 d | | | IVIKI | 1 5.500 90 GHz 2.92 dBm | |
| | 164 | | | | Center Fred |
| 11.0 | ♦ ¹ | | | | 5.510000000 GHz |
| 9.00 | | | | | Start Fred 5.485000000 GH: |
| 19.0 | | | | | Stop Free 5.535000000 GH: |
| 39,0 | | | | | CF Step 5.000000 MH: Auto Mar |
| 49.0 59.0 | | | | | Freq Offse 0 H: |
| 69.0 | | | | | |
| Center 5.51000 GHz Res BW 1.0 MHz | #VBW | / 3.0 MHz | Sweep 1 | Span 50.00 MHz .000 ms (1001 pts) | |
| ASG | | | STATUS | | |

Channel 102: (Chain A)

Channel 110: (Chain A)





| |) | 4111 1 | 1 1 34. (Ch | Chaim | | | | |
|------------------------------------|--|---------------|--------------------|---------------------------------|--------------------|-----------------------|-------------------------|-----------------------|
| Frequency | 02:38:02 PM Nov 03, 2015 | | ALIGNA | SENSE:INT | 1 | OΩ AC | | RL |
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WARAWAY DET A N N N N N | | #Avg Type: RMS | Trig: Free Run #Atten: 30 dB | GHz PNO: Fast G | 000000 | req 5.670 | Center F |
| Auto Tune | 5.655 85 GHz 4.00 dBm | /lkr1 | ſ | | | | Ref Offset Ref 21.0 | 10 dB/div |
| Center Free 5.670000000 GH | | | | | 1 | | | 11.0 |
| | | nerice | | | | ♦ ¹ | - | 1.00 |
| Start Free 5.645000000 GH | | | | Y | | | | -9.00 |
| Stop Free 5.695000000 GH | Manufacture and | | | | | | responded | 19.0 29.0 |
| CF Step 5.000000 MH Auto Mar | | | | | | | | 39,0 |
| Freq Offse | | | | | | | | -49.0 |
| UH | | _ | | - | | | | 69.0 |
| | Span 50.00 MHz 00 ms (1001 pts) | p 1.0 | Swee | 3.0 MHz | #VBW | z | .67000 GHz (1.0 MHz | Center 5.0 #Res BW |
| | i i i i i i i i i i i i i i i i i i i | TATUS | s | | | | | MSG |

Channel 134: (Chain A)



| Channel | 54: | (Chain B |) |
|---------|------|----------|---|
| Channel | J-1. | (Cham D | |

| - 2 - | | | | | ectrum Analyzer - Swept SA | | |
|----------------------------------|--|--|------------|---------------|---------------------------------|------------------|--|
| Frequency | 06:51:12 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW | ALIGN AUTO Avg Type: RMS Avg Hold:>100/100 | SENSECINT | | RF 50 Ω AC req 5.27000000 | enter F | |
| Auto Tun | PRO: Past #Atten: 30 dB Ref Offset 1 dB 0 dB/div Ref 21.00 dBm 4.014 dBm | | | | | | |
| Center Fre 5.270000000 GH | | | •1 | | | .og | |
| Start Fre 5.245000000 GH | | | | | | 9.00 | |
| Stop Fre 5.295000000 GH | and a second | | | | www. | 19.0 | |
| CF Ste 5.000000 MH Auto Ma | | | | | | 9.0 | |
| Freq Offse 0 H | | | | | | 9,0 | |
| | Span 50.00 MHz | | 3.0 MHz* | | 27000 GHz | Center 5.2 | |
| | 000 ms (1001 pts) | Sweep 1. | J.V IVIMZ" | 10 C 10 C 1 C | <picture.png> sav</picture.png> | 1949 20 20 20 20 | |

Channel 62: (Chain B)

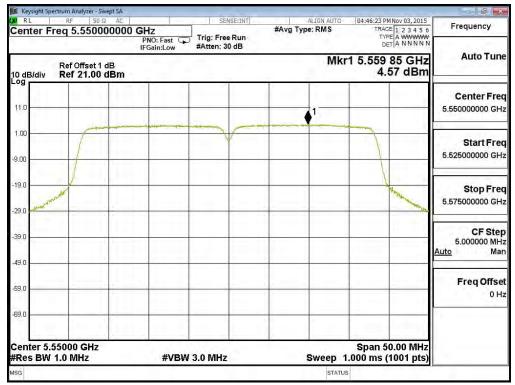
| | | | | ctrum Analyzer - Swept SA | |
|----------------------------------|---|------------------------------|--|-----------------------------------|-----------------------|
| Frequency | 04:42:44 PM Nov 03, 2015 TRACE 1 2 3 4 5 6 | ALIGN AUTO #Avg Type: RMS | SENSE(INT | RF 50 Ω AC req 5.310000000 GHz | XI RL Center Fr |
| Auto Tun | TYPE A WWWW DET A N N N N N | | ⁷ Trig: Free Run #Atten: 30 dB | PNO: Fast 😱 IFGain:Low | |
| Auto Tur | 1 5.317 85 GHz 2.81 dBm | Mkr | ê Li | Ref Offset 1 dB Ref 21.00 dBm | 10 dB/div |
| Center Fre | | | | | |
| 5.310000000 GH | | ● ¹ | | | 11.0 |
| Start Fre 5.285000000 GH | | | V | | 9.00 |
| Stop Fre 5.335000000 GH | | | | | 19.0 |
| CF Ste 5.000000 MH Auto Ma | | | | | 39.0 |
| Freq Offs 0 H | | | | | 49.0 59.0 |
| | | | | | 69.0 |
| | Span 50.00 MHz .000 ms (1001 pts) | Sweep 1 | 3.0 MHz | 31000 GHz 1.0 MHz #VBW | Center 5.3 #Res BW |
| | | STATUS | | | MSG |



| Keysight Spectrum Analy RL RF | zer - Swept SA 50 Ω AC | SENSE(INT | ALIGN AUTO | 04:44:41 PM Nov 03, 2015 | |
|----------------------------------|-----------------------------------|-----------------|---|--|--|
| | 10000000 GHz PNO: Fas | Trig: Free Run | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNN | Frequency |
| 0 dB/div Ref 2' | IFGain:Lo set 1 dB I.00 dBm | w #Atten: 30 dB | Mkr | 1 5.515 30 GHz 2.64 dBm | Auto Tune |
| 11.0 | | | 1 | | Center Free 5.510000000 GH: |
| 9.00 | | | and a second and a s | | Start Free 5.485000000 GH |
| 19.0 29.0 | | | | | Stop Free 5.535000000 GH |
| 9.0 | | | | | CF Stej 5.000000 MH <u>Auto</u> Ma |
| 19.0 19.0 | | | | | Freq Offse 0 H |
| 69.0 Center 5.51000 G | Hz | | | Span 50.00 MHz | |
| Res BW 1.0 MH | | /BW 3.0 MHz | Sweep 1 | .000 ms (1001 pts) | |
| SG | | | STATUS | 5 | |

Channel 102: (Chain B)

Channel 110: (Chain B)





| | _) | 134: (Chain | 0 | | trum Analyzer - Swept SA | Keysight Spe |
|---|---|------------------------------|---------------|--|----------------------------------|---------------------|
| Frequency | 04:49:03 PM Nov 03, 2015 TRACE 1 2 3 4 5 6 TVPE A WWWWW | ALIGN AUTO #Avg Type: RMS | SENSE(INT) | PNO: Fast | RF 50Ω AC eq 5.670000000 | RL |
| Auto Tune | 1 5.673 30 GHz 3.76 dBm | Mkr | #Atten: 30 dB | IFGain:Low | Ref Offset 1 dB Ref 21.00 dBm | 10 dB/div |
| Center Free 5.670000000 GH: | | | 1 | | | -og 11.0 |
| Start Free 5.645000000 GH | | | | And a second | | 9.00 |
| Stop Free 5,695000000 GH | | | | | | 19.0 |
| CF Step 5.000000 MH <u>Auto</u> Mar | | | | | | 39.0 |
| Freq Offse 0 H | | | | | | 49.0 59.0 |
| | Span 50.00 MHz | | | | 7000 GHz | -69.0 Center 5.6 |
| | .000 ms (1001 pts) | Sweep 1 | 3.0 MHz | #VBW | 1.0 MHz | Res BW |

Channel 134: (Chain B)



| | | (Chan C) | Channel e | | | |
|---------------------------------------|---|--|---------------|------------|----------------------------------|--------------|
| | | | | | ectrum Analyzer - Swept SA | |
| Frequency | 06:51:25 PM Nov 05, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | ALIGN AUTO Avg Type: RMS Avg Hold:>100/100 | SENSE(INT | | RF 50 Ω AC req 5.270000000 | Center F |
| Auto Tun | | or a second | #Atten: 30 dB | IFGain:Low | | |
| | 1 5.284 90 GHz 4.167 dBm | IVIKE | ê se | n | Ref Offset 1 dB Ref 21.00 dBm | 10 dB/div |
| Center Free 5.270000000 GH | | | | 84 F 1 | | |
| | 1 | | | | | 11.0 |
| Start Fre 5.245000000 GH | | | V | | | 1.00 |
| | | | | | | 9.00 |
| Stop Fre | | | | - | | -19.0 |
| 5.295000000 GH | Mullipre annument | | | | March 1. | 29.0 |
| CF Step | | | | | | 39.0 |
| 5.000000 MH Auto Ma | | | | | | |
| Freq Offse | | | | | | 49.0 |
| 0H | | | | | | 59.0 |
| · · · · · · · · · · · · · · · · · · · | | | | | | 69.0 |
| | Onen 60 00 Mile | · | | | 27000 011- | |
| - | Span 50.00 MHz 000 ms (1001 pts) | Sweep 1. | 3.0 MHz* | #VBW | 27000 GHz 1.0 MHz | Fres BW |
| | | To STATUS | | aved | <picture.png> save</picture.png> | Isg 🤳 File - |

Channel 54: (Chain C)

Channel 62: (Chain C)

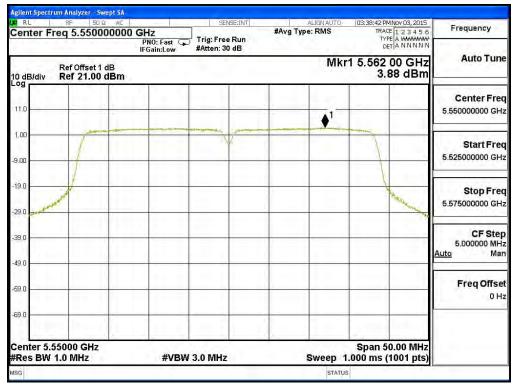
| Agilent Spectrum Analyzer - Swept SA A RL RF 50 Q AC | 1 | SENSE:INT | ALIGNAUTO | 03:34:34 PM Nov 03, 2015 | |
|---|-------------|----------------|----------------|--|--|
| Center Freq 5.31000000 | PNO: Fast 😱 | Trig: Free Run | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WATAWAY DET A N N N N N | Frequency |
| Ref Offset 1 dB | IFGain:Low | #Atten: 30 dB | Mkr | 1 5.324 35 GHz 2.22 dBm | Auto Tune |
| 11.0 | | | | 1 | Center Fred 5.310000000 GHz |
| 9.00 | | | | | Start Fred 5.285000000 GH: |
| -19.0 | | | | And the second second | Stop Free 5.335000000 GH; |
| 49.0 | | | | | CF Stej 5.000000 MH <u>Auto</u> Ma |
| -59.0 | | | | | Freq Offse 0 H |
| -69.0 Center 5.31000 GHz #Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 1 | Span 50.00 MHz .000 ms (1001 pts) | |
| ASG | | | STATUS | | |



| RL RF 50 Ω AC Center Freq 5.510000000 | GHZ | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 03:37:20 PMNov 03, 2015 TRACE 1 2 3 4 5 6 | Frequency |
|--|-------------|---------------------------------|-----------------------------|--|-----------------------------------|
| | PNO: Fast G | Trig: Free Run #Atten: 30 dB | | TYPE A WMMMMW DET A N N N N N | - Querand |
| Ref Offset 1 dB 10 dB/div Ref 21.00 dBm | | | Mkr | 1 5.513 05 GHz 1.92 dBm | Auto Tune |
| 11.0 | | | | 1 | Center Free 5.510000000 GH: |
| 1.00 | | • ¹ | | | Start Free |
| 9.00 | | | | | 5.485000000 GH: |
| 29.0 | | | | and the second second | Stop Free 5.535000000 GH |
| 39.0 | | | | | CF Step 5.000000 MH Auto Ma |
| 49.0 | - | | | · · · · · · · · · · · · · · · · · · · | Freq Offse |
| 69.0 | | | | | 0 H |
| 09.0 | | = | | 2.00 1.0.1 | |
| Center 5.51000 GHz #Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 1 | Span 50.00 MHz .000 ms (1001 pts) | |

Channel 102: (Chain C)

Channel 110: (Chain C)





| | 0) | 134. (Citalii | Chaim | | | |
|--|--|----------------|---------------------------------|-------------------------|---------------------------------------|-----------------------|
| Frequency | 03:42:12 PM Nov 03, 2015 | ALIGNAUTO | SENSE:INT | AC | rum Analyzer - Swept SA RF 50 Ω AC | XI RL |
| | TRACE 1 2 3 4 5 6 TYPE A WWAWW DET A N N N N N | #Avg Type: RMS | Trig: Free Run #Atten: 30 dB | PNO: Fast IFGain:Low | req 5.6700000 | Center Fr |
| Auto Tun | 1 5.660 55 GHz 3.65 dBm | Mkr | | | Ref Offset 1 dB Ref 21.00 dBm | 10 dB/div |
| Center Free 5.670000000 GH: | | | | | | 11.0 |
| | | | | ● ¹ | | 1.00 |
| Start Free 5.645000000 GH | 1 | | V | | | -9.00 |
| Stop Free 5.695000000 GH | Star and | | | | Jan Haller and A | 19.0 |
| CF Stej 5.000000 MH <u>Auto</u> Ma | | | | | | 39.0 |
| Freq Offse 0 H | | | | | | 59.0 |
| | | | | | | -69.0 |
| | Span 50.00 MHz .000 ms (1001 pts) | Sweep 1. | 3.0 MHz | #VBW | .67000 GHz 1.0 MHz | Center 5.6 #Res BW |
| | | STATUS | | | | MSG |

Channel 134: (Chain C)

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Peak Power Spectral Density |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit (802.11ac-80BW-97.5Mbps) |

| Channel Number | Frequency (MHz) | Chain | PPSD (dBm) | BWCF (dB) | Total PPSD (dBm)1 | Required Limit (dBm) | Result |
|-------------------|--------------------|-------|---------------|--------------|-------------------------|----------------------------|--------|
| | | А | -3.590 | 4.771 | 1.181 | <11 | Pass |
| 58 | 5290 | В | -2.850 | 4.771 | 1.921 | <11 | Pass |
| | | С | -3.680 | 4.771 | 1.091 | <11 | Pass |
| | | А | -5.970 | 4.771 | -1.199 | <11 | Pass |
| 106 | 5530 | В | -6.030 | 4.771 | -1.259 | <11 | Pass |
| | | С | -6.030 | 4.771 | -1.259 | <11 | Pass |
| | | А | 0.560 | 4.771 | 5.331 | <11 | Pass |
| 122 | 5610 | В | 0.440 | 4.771 | 5.211 | <11 | Pass |
| | | С | 0.250 | 4.771 | 5.021 | <11 | Pass |

5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Note: 1.The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.

2.Total PPSD Value = PPSD/MHz value + $10*\log 3$ (three antennas)



| RL RF 50Ω AC | | SENSE:INT | ALIGNAUTO | 02:07:42 PM Nov 03, 2015 | Established |
|---|------------------------------------|---------------------------------|---------------------------------------|--|--|
| Center Freq 5.29000000 |) GHz PNO: Fast 🖵 IFGain:Low | Trig: Free Run #Atten: 30 dB | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WANAWAY DET A N N N N N | Frequency |
| Ref Offset 1 dB 0 dB/div Ref 21.00 dBm | | | M | r1 5.313 4 GHz -3.59 dBm | Auto Tune |
| 11.0 | | | | | Center Fred 5.290000000 GH: |
| 9.00 | | | • • • • • • • • • • • • • • • • • • • | | Start Free 5.240000000 GH: |
| 29.0 | | | | | Stop Free 5.340000000 GH |
| 39.0 | | | | | CF Stej 10.000000 MH <u>Auto</u> Mar |
| 59.0 | | | | | Freq Offse 0 H |
| 69.0 | | | | , and in the s | |
| Center 5.29000 GHz #Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 1 | Span 100.0 MHz .000 ms (1001 pts) | |

Channel 58: (Chain A)

Channel 106: (Chain A)

| | 02:10:17 PM Nov 03, 2015 | ALIGNAUTO | SENSE:INT | | RF 50.Q AC | XI RL |
|--|--|----------------|----------------|----------------------|--|----------------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WAXAWAY DET A N N N N N | #Avg Type: RMS | Trig: Free Run | 000 GHz PNO: Fast | Freq 5.53000000 | Cente |
| Auto Tune | r1 5.514 4 GHz | Mk | #Atten: 30 dB | IFGain:Low | Ref Offset 1 dB | |
| | -5.97 dBm | 7 | | m | | 10 dB/d Log |
| Center Free | | | | | | |
| 5.530000000 GH | | | | | | 11.0 |
| Start Free | | | | A 1 | | 1,00 |
| 5.480000000 GH | | | | | (martin | -9.00 |
| Stop Era | | | | | | -19.0 — |
| Stop Free 5.58000000 GH | | | | | | -29.0 |
| | have | | | | Jose Contraction of the second | -29.0 |
| CF Stej 10.000000 MH <u>Auto</u> Mar | Marine . | | | | | -39.0 |
| Freq Offse | | | | | | |
| он | | | | | | -59.0 — |
| | | | | | in less i | -69.0 — |
| | Span 100.0 MHz .000 ms (1001 pts) | Sween 1 | 3.0 MHz | #VBW : | 5.53000 GHz V 1.0 MHz | |
| | | STATUS | VIV 11114 | | | MSG |



| | A) | 122: (Chain | Channe | | | |
|---|--|-----------------------------|---------------|----------------|---|--------------------------|
| Frequency | 02:13:12 PM Nov 03, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N | ALIGNAUTO #Avg Type: RMS | SENSE:INT | AC | Analyzer Swept SA RF 50 Ω AC q 5.61000000 | RL |
| Auto Tun | r1 5.586 0 GHz | Mk | #Atten: 30 dB | IFGain:Low | Ref Offset 1 dB | |
| | 0.56 dBm | | | | Ref 21.00 dBm | |
| Center Free 5.610000000 GH | | | | | | 11.0 |
| | | | | ↓ ¹ | | 1.00 |
| Start Free 5.560000000 GH | | | | | | 9.00 |
| Stop Free 5.66000000 GH | | | | | J. | 29.0 |
| CF Step 10.000000 MH <u>Auto</u> Ma | <u> </u> | | | | | 39.0 |
| Freq Offse 0 H | | | | | | 59.0 |
| | | | | | | 69.0 |
| | Span 100.0 MHz .000 ms (1001 pts) | Sweep 1 | 3.0 MHz | #VBW | | Center 5.61 #Res BW 1 |
| - | | STATUS | | | | MSG |

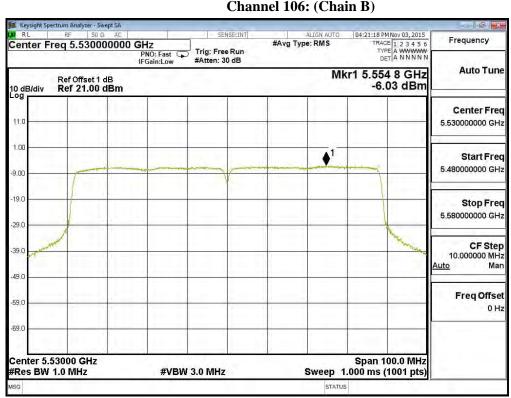
Channel 122: (Chain A)



| | | | | t SA | ctrum Analyzer - Swept SA | |
|--------------------------------|---|------------------------------|---------------------------------|--|----------------------------------|------------|
| Frequency | 04:18:43 PM Nov 03, 2015 TRACE 1 2 3 4 5 6 | ALIGN AUTO #Avg Type: RMS | SENSE(INT | 0000 GHz | RF 50 Ω AC req 5.29000000 | enter Fi |
| To Ma Gu | TYPE A WWWWW DET A NNNNN | | Trig: Free Run #Atten: 30 dB | PNO: Fast 🖵 IFGain:Low | | |
| Auto Tun | r1 5.307 6 GHz -2.85 dBm | Mł | ê . E | | Ref Offset 1 dB Ref 21.00 dBm | 0 dB/div |
| Center Fre | | | | 124 124 | | July |
| 5.290000000 GH | | | | | | 11.0 |
| Start Fre | | 1 | and the second second | The Property of the Property o | | 1.00 |
| 5.240000000 GH | | | Y | | | 9.00 |
| Stop Fre | | | | | - | 19.0 |
| 5.340000000 GH | | | | | | 29.0 |
| CF Ste | a second and a second and | | | | | 39.0 |
| 10.000000 MH <u>Auto</u> Ma | | | | | | |
| Freq Offse | | | | | | 49.0 |
| 0 H | | | | | | 59.0 |
| | | | | | | 69.0 |
| | Span 100.0 MHz .000 ms (1001 pts) | Sween 1 | 3.0 MHz | #\/R\M | 29000 GHz | Center 5.2 |
| | | STATUS | 0.0 11112 | #¥044 | 1.0 11112 | ISG |

Channel 58: (Chain B)

Channel 106: (Chain B)





| | 5) | 122: (Chain I | Chaimer | | n Analyzer - Swept SA | Keysight Spectrum |
|--------------------------------------|---|---------------|---------------|-----------------------|--------------------------------|----------------------------|
| Frequency | 04:24:12 PM Nov 03, 2015 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | ALIGN AUTO | SENSE:INT | PNO: Fast | RF 50 Ω AC | RL R |
| Auto Tune | cr1 5.592 8 GHz 0.44 dBm | Mk | #Atten: 30 dB | IFGain:Low | ef Offset 1 dB ef 21.00 dBm | dB/div Re |
| Center Fred 5.610000000 GH: | | | | | | 1 .0 |
| Start Free 5.56000000 GH: | | | | * ¹ | | .00 |
| Stop Fred 5.660000000 GH; | | | | | | 9.0 |
| CF Step 10.000000 MH: Auto Mar | | | | | | 9.0 |
| Freq Offse 0 H: | | | | | | 9.0 |
| | Span 100.0 MHz .000 ms (1001 pts) | Sween 1 | 3.0 MHz | #\/B)A/ | | enter 5.6100 Res BW 1.0 |
| | | STATUS | VIV 111112 | | | G |

Channel 122: (Chain B)



Channel 58: (Chain C)

| RL RF 50Ω AC | | SENSE:INT | ALIGN AUTO | 03:02:26 PM Nov 03, 2015 | Ecologica |
|--|------------|----------------|----------------|--|-------------------------------|
| Center Freq 5.290000000 GHz | | Trig: Free Run | #Avg Type: RMS | TRACE 1 2 3 4 5 6 TYPE A WWWWWW DET A N N N N N | Frequency |
| | IFGain:Low | #Atten: 30 dB | | | Auto Tune |
| Ref Offset 1 dB 0 dB/div Ref 21.00 dBm | | 10 L | M | r1 5.313 0 GHz -3.68 dBm | Auto Tune |
| | | | | | Center Freq |
| 1.0 | | | | | 5.29000000 GH |
| .00 | _ | | 1 | | 1 |
| and the second s | | man portions | | | Start Fred 5.240000000 GH: |
| .00 | | | | | |
| 9.0 | | | | | Stop Free |
| 9.0 | | | | | 5.340000000 GH |
| and and a start of the start of | 1111 | 1.1 | | The second secon | CE Otor |
| 9.0 | | | | | CF Step 10.000000 MH |
| 9.0 | | | | | <u>Auto</u> Mar |
| | | - E E | | | Freq Offse |
| 9.0 | | | | | 0 H |
| 9.0 | | | | | |
| | | | | Contraction of the second | |
| enter 5.29000 GHz Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 1 | Span 100.0 MHz .000 ms (1001 pts) | |
| G | | | STATU | | 1 |

Channel 106: (Chain C)

| RL RF 50 Q AC | Nov 03, 2015 | |
|--|---------------------------|--------------------|
| Center Freq 5.53000000 | TANNNNN | TRAC TYP |
| | | DE |
| Ref Offset 1 dB 10 dB/div Ref 21.00 dBm | 2 6 GHz Auto Tu 03 dBm | Mkr1 5.552 -6.0 |
| | Center Fr | |
| 11.0 | 5.53000000 G | |
| 1.00 | Start Fr | |
| 9.00 | 5.480000000 G | |
| 19.0 | Stop Fr | |
| -29.0 | 5.58000000 G | |
| | CF Ste | |
| -39.0 | 10.000000 M Auto M | |
| 49.0 | 1 | |
| -59.0 | Freq Offs | - |
| 69.0 | | |
| Center 5.53000 GHz | 00.0 MHz | |
| #Res BW 1.0 MHz | | p 1.000 ms (|
| ISG | | TATUS |



| - 5 - | ., | | | | ALL CLUST | Provide Contractor |
|---------------------------------|---|------------------------------------|----------------|------------|--------------------------------------|-------------------------------|
| | 04:37:53 PM Nov 05, 2015 | ALIGN AUTO | SENSELINT | | um Analyzer - Swept SA RF 50 Ω AC | |
| Span | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Avg Type: RMS Avg Hold:>100/100 | Trig: Free Run | PNO: Fast | 000000 MHz | |
| Spa | DET A NNNNN. | and the second | #Atten: 30 dB | IFGain:Low | | |
| 100.000000 MH | r1 5.582 1 GHz 0.250 dBm | Mk | | | Ref Offset 1 dB Ref 21.00 dBm | |
| | | | = () | | | og |
| | | | | | | 11.0 |
| | | | | 1 | ● ¹ | 1.00 |
| Full Spa | | | | | | 9.00 |
| Zero Spa | | | | | / | 19.0 |
| | Mar and a second | | | | | 19.0 |
| LastSpa | 1 74 | | | | | 39.0 |
| | | | | | | 19.0 |
| | - | | | | | 59,0 |
| Signal Trac | | | | | | 9.0 |
| (5)nn/2.nn (5)nn/2.nn 2nn | Span 100.0 MHz | | | | 000 GHz | enter 5.610 |
| | 000 ms (1001 pts) | Sweep 1 | 3.0 MHz* | #VBW | | Res BW 1.0 |
| | | STATUS | | aved | ICTURE.PNG> save | sg i File <pic< td=""></pic<> |

Channel 122: (Chain C)



5. Radiated Emission

5.1. Test Equipment

The following test equipments are used during the radiated emission test:

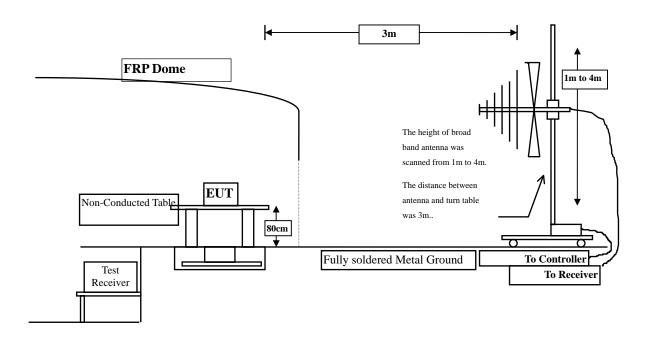
| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---|-------------------|-----------------|-----------------------------|------------|
| Site # 3 | Х | Loop Antenna | Teseq | HLA6120 / 26739 | Jul., 2015 |
| | Х | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2015 |
| | Х | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2015 |
| | Х | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2015 |
| | Х | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2015 |
| | Х | Pre-Amplifier | QTK | AP-180C / CHM_0906076 | Sep., 2015 |
| | Х | Pre-Amplifier | MITEQ | AMF-4D-180400-45-6P/ 925975 | Mar., 2015 |
| | Х | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2015 |
| | Х | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2015 |
| | Х | Coaxial Cable | QuieTek | QTK-CABLE/ CAB5 | Feb., 2015 |
| | Х | Controller | QuieTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | Х | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

Note:

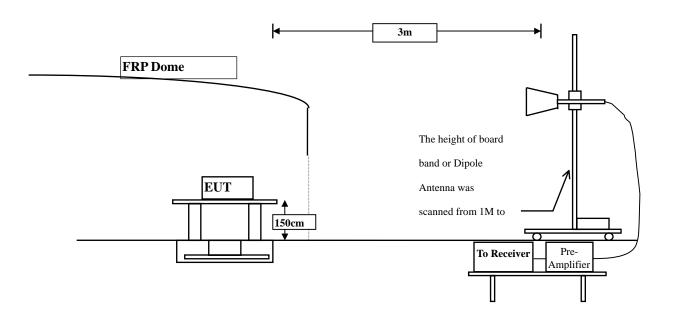
- 1. All equipment is calibrated once a year or as required by manufacturer.
- 2. All equipment is calibrated to traceable calibration procedures.
- 3. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 | FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | | | |
|------------------|--|----------------------|--|--|--|
| Frequency MHz | Field strength | Measurement distance | | | |
| | (microvolts/meter) | (meter) | | | |
| 0.009-0.490 | 2400/F(kHz) | 300 | | | |
| 0.490-1.705 | 24000/F(kHz) | 30 | | | |
| 1.705-30 | 30 | 30 | | | |
| 30-88 | 100 | 3 | | | |
| 88-216 | 150 | 3 | | | |
| 216-960 | 200 | 3 | | | |
| Above 960 | 500 | 3 | | | |

Remarks: E field strength $(dB\mu V/m) = 20 \log E$ field strength (uV/m)

5.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas. The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement. The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

5.5. Uncertainty

- ± 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz

5.6. Test Result of Radiated Emission

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5260MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10520.000 | 14.015 | 35.750 | 49.765 | -24.235 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |

Vertical

Peak Detector:

| 10520.000 | 14.818 | 34.560 | 49.378 | -24.622 | 74.000 |
|-----------|--------|--------|--------|---------|--------|
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

-

*

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5300MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.550 | 35.140 | 49.689 | -24.311 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.881 | 34.370 | 49.251 | -24.749 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |

Note:

*

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

*

*

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

*

4. Measurement Level = Reading Level + Correction Factor.

*

- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5320MHz) |

| Frequency | Correct | Correct Reading Measurement | | Margin | Limit |
|------------------|---------|-----------------------------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 14.690 | 36.260 | 50.950 | -23.050 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |

| 10640.000 | 15.083 | 36.520 | 51.603 | -22.397 | 74.000 |
|----------------------|--------|--------|--------|---------|--------|
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| * | * | * | * | * | * |

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

74.000

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| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5500MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 16.399 | 35.140 | 51.539 | -22.461 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 17.132 | 34.290 | 51.422 | -22.578 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |

Note:

27500.000

Average **Detector:** *

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

*

*

*

*

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

*

*

4. Measurement Level = Reading Level + Correction Factor.

*

*

- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5580MHz) |

| Frequency | Correct | Reading | ng Measurement Margi | | Limit |
|------------------|---------|---------|----------------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 16.664 | 37.330 | 53.995 | -20.005 | 74.000 |
| 16800.000 | * | * | * | * | 74.000 |
| 22400.000 | * | * | * | | 74.000 |
| 28000.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 17.643 | 35.140 | 52.783 | -21.217 | 74.000 |
| 16800.000 | * | * | * | * | 74.000 |
| 22400.000 | * | * | * | * | 74.000 |
| 28000.000 | * | * | * | * | 74.000 |
| Average | | | | | |

Note:

Detector: *

> 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

*

*

*

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

*

4. Measurement Level = Reading Level + Correction Factor.

*

- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) (5700MHz) |

| Frequency | Correct | Correct Reading Measurement Mars | | Margin | Limit |
|-----------------------|---------|----------------------------------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 16.530 | 41.120 | 57.651 | -16.349 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| 11400.000 | 16.530 | 20.690 | 37.221 | -16.779 | 54.000 |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 17.138 | 37.660 | 54.798 | -19.202 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 11400.000 | 17.138 | 19.260 | 36.398 | -17.602 | 54.000 |

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5260MHz) |

| Frequency | Correct | Reading Measurement | | Margin | Limit |
|-----------------------|---------|---------------------|--------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10520.000 | 14.015 | 35.890 | 49.905 | -24.095 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10520.000 | 14.818 | 34.340 | 49.158 | -24.842 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |

| 26300.000 | * | * | * | * | 74.000 |
|------------------|---|---|---|---|--------|
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5300MHz) |

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|------------------|-------------------|------------------|----------------------|---------|--------|
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.550 | 36.630 | 51.179 | -22.821 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.881 | 35.270 | 50.151 | -23.849 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| | | | | | |

 Detector:

 10600.000
 14.881
 25.270
 40.151
 -13.849
 54.000

Note:

Average

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

74.000

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| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5320MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 35.242 | 36.800 | 52.832 | -21.168 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 15.083 | 36.110 | 51.193 | -22.807 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |

Note:

26600.000

Average Detector:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

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- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

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4. Measurement Level = Reading Level + Correction Factor.

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- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5500MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 16.399 | 35.470 | 51.869 | -22.131 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 17.132 | 34.690 | 51.822 | -22.178 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |

Note:

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1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

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- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

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4. Measurement Level = Reading Level + Correction Factor.

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- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5580MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 16.664 | 37.040 | 53.705 | -20.295 | 74.000 |
| 16800.000 | * | * | * | * | 74.000 |
| 22400.000 | * | * | * | * | 74.000 |
| 28000.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 17.643 | 34.160 | 51.803 | -22.197 | 74.000 |

| 11160.000 | 17.643 | 34.160 | 51.803 | -22.197 | 74.000 |
|----------------------|--------|--------|--------|---------|--------|
| 16800.000 | * | * | * | * | 74.000 |
| 22400.000 | * | * | * | * | 74.000 |
| 28000.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| * | * | * | * | * | * |

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5700MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 16.530 | 35.280 | 51.811 | -22.189 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 17.138 | 34.930 | 52.068 | -21.932 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |

Note:

Average Detector:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

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- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

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4. Measurement Level = Reading Level + Correction Factor.

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- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) (5270MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|----------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10540.000 | 14.151 | 33.470 | 47.620 | -26.380 | 74.000 |
| 15810.000 | * | * | * | * | 74.000 |
| 21080.000 | * | * | * | * | 74.000 |
| 26350.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10540.000 | 14.829 | 33.150 | 47.978 | -26.022 | 74.000 |
| 15810.000 | * | * | * | * | 74.000 |
| 21080.000 | * | * | * | * | 74.000 |
| 26350.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) (5310MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10620.000 | 14.623 | 34.870 | 49.493 | -24.507 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10620.000 | 14.970 | 34.540 | 49.510 | -24.490 | 74.000 |

| 10020.000 | 1 11970 | 5 115 10 | 17.810 | 211120 | / |
|------------------|---------|----------|--------|--------|--------|
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

74.000

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| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) (5510MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11020.000 | 16.474 | 33.970 | 50.443 | -23.557 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11020.000 | 17.224 | 33.150 | 50.374 | -23.626 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |

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Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

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Measurement Level = Reading Level + Correction Factor.

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measurements as necessary.

26550.000

Average Detector:

Note:

5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.

6. The average measurement was not performed when the peak measured data is under the limit of average detection.

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average

7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

74.000

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| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) (5550MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11100.000 | 16.681 | 33.982 | 50.663 | -23.337 | 74.000 |
| 16770.000 | * | * | * | * | 74.000 |
| 22360.000 | * | * | * | * | 74.000 |
| 27950.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11100.000 | 17.523 | 35.146 | 52.669 | -21.331 | 74.000 |
| 16770.000 | * | * | * | * | 74.000 |
| 22360.000 | * | * | * | * | 74.000 |

Note:

27950.000

Average Detector:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

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- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

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4. Measurement Level = Reading Level + Correction Factor.

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- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Harmonic Radiated Emission Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) (5670MHz) |

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11340.000 | 17.167 | 36.150 | 53.317 | -20.683 | 74.000 |
| 17010.000 | * | * | * | * | 74.000 |
| 22680.000 | * | * | * | * | 74.000 |
| 28350.000 | * | * | * | * | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| * | * | * | * | * | * |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |

| 52.207 | -21.793 | 74.000 |
|--------|---------|-----------|
| * | * | 74.000 |
| * | * | 74.000 |
| * | * | 74.000 |
| | | |
| * | * | * |
| | * | * * * * * |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

| Product | : 802.11ac Dual Band Access Point | | | | | | | |
|-----------------------|--|---------|-------------|---------|--------|--|--|--|
| Test Item | Harmonic Radiated Emission Data No.3 OATS | | | | | | | |
| Test Site | | | | | | | | |
| Test Mode | de : Mode 4: Transmit (802.11ac-80BW-97.5Mbps) (5290MHz) | | | | | | | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | | | |
| | Factor | Level | Level | | | | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m | | | |
| Horizontal | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 10580.000 | 14.423 | 35.050 | 49.473 | -24.527 | 74.000 | | | |
| 11550.000 | * | * | * | * | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |
| Vertical | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 10580.000 | 14.849 | 34.700 | 49.549 | -24.451 | 74.000 | | | |
| 11550.000 | * | * | * | * | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

| Product | : 802.11ac Dual Band Access Point | | | | | | | |
|-----------------------|---|---------|-------------|---------|--------|--|--|--|
| Test Item | : Harmonic Radiated Emission Data | | | | | | | |
| Test Site | : No.3 OA | ATS | | | | | | |
| Test Mode | : Mode 4: Transmit (802.11ac-80BW-97.5Mbps) (5530MHz) | | | | | | | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | | | |
| | Factor | Level | Level | | | | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m | | | |
| Horizontal | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 11060.000 | 16.580 | 34.080 | 50.660 | -23.340 | 74.000 | | | |
| 11550.000 | * | * | * | * | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |
| Vertical | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 11060.000 | 17.375 | 34.340 | 51.715 | -22.285 | 74.000 | | | |
| 11550.000 | * | * | * | * | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

| Product | : 802.11ac Dual Band Access Point | | | | | | | |
|------------------|---|---------|-------------|---------|----------|--|--|--|
| Test Item | : Harmon | | | | | | | |
| Test Site | : No.3 OATS | | | | | | | |
| Test Mode | : Mode 4: Transmit (802.11ac-80BW-97.5Mbps) (5610MHz) | | | | | | | |
| F | G | | | | . | | | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | | | |
| | Factor | Level | Level | | | | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m | | | |
| Horizontal | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 11220.000 | 16.589 | 34.790 | 51.380 | -22.620 | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |
| Vertical | | | | | | | | |
| Peak Detector: | | | | | | | | |
| 11220.000 | 17.620 | 34.600 | 52.220 | -21.780 | 74.000 | | | |
| 17325.000 | * | * | * | * | 74.000 | | | |
| 20720.000 | * | * | * | * | 74.000 | | | |
| 25900.000 | * | * | * | * | 74.000 | | | |
| 31080.000 | * | * | * | * | 74.000 | | | |
| 36260.000 | * | * | * | * | 74.000 | | | |
| Average | | | | | | | | |
| Detector: | | | | | | | | |
| * | * | * | * | * | * | | | |

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.

5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.

6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. The emission levels of other frequencies are very lower than the limit and not show in test report.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 1: Transmit (802.11a-6Mbps) (5300MHz) | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 290.351 | -4.413 | 33.335 | 28.922 | -17.078 | 46.000 | | |
| 460.621 | 1.570 | 34.951 | 36.521 | -9.479 | 46.000 | | |
| 608.514 | 4.326 | 31.515 | 35.841 | -10.159 | 46.000 | | |
| 730.332 | 3.395 | 31.122 | 34.518 | -11.482 | 46.000 | | |
| 868.330 | 5.378 | 31.253 | 36.631 | -9.369 | 46.000 | | |
| 981.647 | 7.081 | 31.773 | 38.854 | -15.146 | 54.000 | | |
| Vertical | | | | | | | |
| Peak Detector | | | | | | | |
| 107.665 | -0.321 | 33.982 | 33.661 | -9.839 | 43.500 | | |
| 375.660 | -1.980 | 31.901 | 29.922 | -16.078 | 46.000 | | |
| 538.810 | 0.086 | 32.726 | 32.812 | -13.188 | 46.000 | | |
| 640.820 | -3.890 | 31.431 | 27.541 | -18.459 | 46.000 | | |
| 826.640 | 3.265 | 34.587 | 37.852 | -8.148 | 46.000 | | |
| 960.650 | 7.168 | 34.352 | 41.520 | -12.480 | 54.000 | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 1: Transmit (802.11a-6Mbps) (5580MHz) | | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | | |
| | Factor | Level | Level | | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | | |
| Horizontal | | | | | | | | |
| Peak Detector | | | | | | | | |
| 112.850 | -8.214 | 35.156 | 26.942 | -16.558 | 43.500 | | | |
| 380.540 | -0.970 | 33.664 | 32.694 | -13.306 | 46.000 | | | |
| 520.940 | 1.763 | 34.876 | 36.640 | -9.360 | 46.000 | | | |
| 600.410 | 3.981 | 33.191 | 37.172 | -8.828 | 46.000 | | | |
| 721.500 | 3.503 | 31.410 | 34.913 | -11.087 | 46.000 | | | |
| 888.584 | 6.264 | 31.656 | 37.920 | -8.080 | 46.000 | | | |
| Vertical Peak Detector | | | | | | | | |
| 102.940 | -0.099 | 34.059 | 33.960 | -9.540 | 43.500 | | | |
| 384.520 | -2.656 | 34.303 | 31.647 | -14.353 | 46.000 | | | |
| 551.660 | -3.584 | 34.224 | 30.640 | -15.360 | 46.000 | | | |

| 331.000 | -3.384 | 54.224 | 50.040 | -13.300 | 40.000 |
|---------|--------|--------|--------|---------|--------|
| 688.410 | 2.484 | 30.926 | 33.410 | -12.590 | 46.000 |
| 807.840 | 3.601 | 32.379 | 35.980 | -10.020 | 46.000 |
| 960.630 | 7.165 | 34.705 | 41.870 | -12.130 | 54.000 |
| | | | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5300MHz) | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 115.610 | -8.826 | 34.445 | 25.620 | -17.880 | 43.500 | | |
| 300.920 | -3.466 | 36.786 | 33.320 | -12.680 | 46.000 | | |
| 470.950 | 1.067 | 35.623 | 36.690 | -9.310 | 46.000 | | |
| 668.610 | 2.012 | 34.387 | 36.399 | -9.601 | 46.000 | | |
| 840.840 | 5.188 | 31.652 | 36.840 | -9.160 | 46.000 | | |
| 984.550 | 7.690 | 33.276 | 40.966 | -13.034 | 54.000 | | |
| Vertical | | | | | | | |
| Peak Detector | | | | | | | |
| 108.950 | -0.385 | 32.389 | 32.004 | -11.496 | 43.500 | | |
| 368.950 | -2.792 | 33.431 | 30.640 | -15.360 | 46.000 | | |
| 527.810 | -0.451 | 33.776 | 33.325 | -12.675 | 46.000 | | |
| 679.640 | 0.936 | 33.574 | 34.510 | -11.490 | 46.000 | | |
| 846.660 | 2.644 | 32.266 | 34.910 | -11.090 | 46.000 | | |
| 959.840 | 7.044 | 35.106 | 42.150 | -3.850 | 46.000 | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 2: Transmit (802.11n-20BW 21.7Mbps) (5580MHz) | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | $dB\mu V/m$ | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 149.614 | -10.219 | 35.829 | 25.610 | -17.890 | 43.500 | | |
| 389.660 | -1.744 | 35.137 | 33.394 | -12.606 | 46.000 | | |
| 498.360 | -0.121 | 36.631 | 36.510 | -9.490 | 46.000 | | |
| 625.380 | 1.790 | 36.060 | 37.850 | -8.150 | 46.000 | | |
| 799.650 | 5.146 | 34.513 | 39.660 | -6.340 | 46.000 | | |
| 928.410 | 6.928 | 30.912 | 37.840 | -8.160 | 46.000 | | |
| | | | | | | | |
| Vertical | | | | | | | |
| Peak Detector | | | | | | | |
| 110.850 | -0.726 | 34.346 | 33.620 | -9.880 | 43.500 | | |
| 390.520 | -3.089 | 36.455 | 33.365 | -12.635 | 46.000 | | |
| 502.360 | -0.821 | 36.231 | 35.410 | -10.590 | 46.000 | | |
| 699.600 | 0.602 | 35.875 | 36.478 | -9.522 | 46.000 | | |
| 820.640 | 3.348 | 34.502 | 37.850 | -8.150 | 46.000 | | |
| 968.640 | 8.168 | 31.816 | 39.984 | -14.016 | 54.000 | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 3: Transmit (802.11n-40BW 45Mbps) (5310MHz) | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 107.550 | -7.047 | 33.697 | 26.650 | -16.850 | 43.500 | | |
| 308.660 | -3.581 | 33.941 | 30.360 | -15.640 | 46.000 | | |
| 467.650 | 1.031 | 34.069 | 35.100 | -10.900 | 46.000 | | |
| 601.330 | 4.057 | 31.083 | 35.140 | -10.860 | 46.000 | | |
| 791.850 | 5.213 | 30.297 | 35.510 | -10.490 | 46.000 | | |
| 942.610 | 6.459 | 30.151 | 36.610 | -9.390 | 46.000 | | |
| Vertical Peak Detector | | | | | | | |
| 108.660 | -0.368 | 22 759 | 22 200 | 11 110 | 42 500 | | |
| | | 32.758 | 32.390 | -11.110 | 43.500 | | |
| 354.100 | -3.641 | 33.282 | 29.641 | -16.359 | 46.000 | | |
| 462.350 | -3.710 | 35.260 | 31.550 | -14.450 | 46.000 | | |
| 621.330 | -2.775 | 35.185 | 32.410 | -13.590 | 46.000 | | |
| 830.610 | 2.653 | 35.677 | 38.330 | -7.670 | 46.000 | | |
| 972.330 | 5.308 | 33.832 | 39.140 | -14.860 | 54.000 | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site Test Mode | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS Mode 3: Transmit (802.11n-40BW 45Mbps) (5550MHz) | | | | | | |
|--|---|---------|-------------|---------|--------|--|--|
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 109.620 | -7.506 | 33.902 | 26.396 | -17.104 | 43.500 | | |
| 340.510 | -3.831 | 33.461 | 29.630 | -16.370 | 46.000 | | |
| 471.330 | 0.962 | 28.668 | 29.630 | -16.370 | 46.000 | | |
| 610.520 | 4.035 | 35.325 | 39.360 | -6.640 | 46.000 | | |
| 789.640 | 5.141 | 29.971 | 35.112 | -10.888 | 46.000 | | |
| 920.640 | 6.456 | 33.384 | 39.840 | -6.160 | 46.000 | | |
| Vertical Peak Detector | | | | | | | |
| 112.360 | -1.364 | 34.724 | 33.360 | -10.140 | 43.500 | | |
| 348.540 | -3.531 | 34.481 | 30.950 | -15.050 | 46.000 | | |
| 506.350 | -0.618 | 33.232 | 32.614 | -13.386 | 46.000 | | |
| 690.740 | 2.502 | 30.338 | 32.840 | -13.160 | 46.000 | | |
| 815.620 | 3.219 | 31.442 | 34.660 | -11.340 | 46.000 | | |
| 958.630 | 6.905 | 35.426 | 42.330 | -3.670 | 46.000 | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correction Factor.
- 5. Correction Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.
- 7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site | 802.11ac Dual Band Access Point General Radiated Emission No.3 OATS | | | | | |
|-----------------------------------|---|---------|-------------------|-----------|--------|--|
| Test Mode | | | ac-80BW-97.5Mbps) | (5290MHz) | | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | |
| | Factor | Level | Level | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | |
| Horizontal | | | | | | |
| Peak Detector | | | | | | |
| 240.950 | -6.576 | 34.425 | 27.850 | -18.150 | 46.000 | |
| 390.322 | -1.802 | 34.858 | 33.056 | -12.944 | 46.000 | |
| 542.680 | 3.145 | 33.486 | 36.631 | -9.369 | 46.000 | |
| 690.954 | 3.698 | 31.813 | 35.511 | -10.489 | 46.000 | |
| 830.692 | 6.222 | 28.992 | 35.215 | -10.785 | 46.000 | |
| 920.684 | 6.453 | 32.121 | 38.574 | -7.426 | 46.000 | |
| | | | | | | |
| Vertical | | | | | | |
| Peak Detector | | | | | | |
| 108.696 | -0.370 | 33.244 | 32.874 | -10.626 | 43.500 | |
| 382.521 | -2.001 | 31.662 | 29.662 | -16.338 | 46.000 | |
| 520.813 | -0.299 | 33.943 | 33.645 | -12.355 | 46.000 | |
| 690.352 | 2.523 | 33.098 | 35.621 | -10.379 | 46.000 | |
| 820.632 | 3.348 | 33.606 | 36.954 | -9.046 | 46.000 | |
| 970.621 | 7.558 | 33.063 | 40.621 | -13.379 | 54.000 | |

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

| Product Test Item Test Site | 802.11ac Dual Band Access Point General Radiated Emission | | | | | | |
|-----------------------------------|--|---------|-------------|---------|--------|--|--|
| Test Mode | No.3 OATS Mode 4: Transmit (802.11ac-80BW-97.5Mbps) (5530MHz) | | | | | | |
| _ | ~ | | | | | | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | | |
| | Factor | Level | Level | | | | |
| MHz | dB | dBµV | dBµV/m | dB | dBµV/m | | |
| Horizontal | | | | | | | |
| Peak Detector | | | | | | | |
| 105.625 | -6.671 | 34.182 | 27.511 | -15.989 | 43.500 | | |
| 315.360 | -4.192 | 34.554 | 30.362 | -15.638 | 46.000 | | |
| 465.652 | 0.606 | 33.914 | 34.520 | -11.480 | 46.000 | | |
| 620.650 | 2.302 | 34.060 | 36.362 | -9.638 | 46.000 | | |
| 771.102 | 4.215 | 34.010 | 38.225 | -7.775 | 46.000 | | |
| 855.620 | 6.534 | 33.987 | 40.521 | -5.479 | 46.000 | | |
| | | | | | | | |
| Vertical | | | | | | | |
| Peak Detector | | | | | | | |
| 215.622 | -8.242 | 34.507 | 26.265 | -17.235 | 43.500 | | |
| 379.850 | -1.455 | 33.709 | 32.254 | -13.746 | 46.000 | | |
| 540.521 | 0.065 | 33.476 | 33.541 | -12.459 | 46.000 | | |
| 682.360 | 1.619 | 33.750 | 35.369 | -10.631 | 46.000 | | |
| 810.225 | 3.228 | 35.293 | 38.521 | -7.479 | 46.000 | | |
| 960.352 | 7.118 | 31.577 | 38.695 | -15.305 | 54.000 | | |

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2015 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2015 |
| Х | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

- 1. All equipment is calibrated once a year or as required by manufacturer.
- 2. All equipment is calibrated to traceable calibration procedures.
- 3. The test instruments marked by "X" are used to measure the final test results.

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

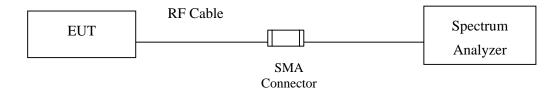
| Test Site | Equipment | | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---------------|-------------------|-----------------|--------------------------------|------------|
| Site # 3 | Bilog Antenna | | Schaffner Chase | CBL6112B/2673 | Sep., 2015 |
| | Х | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2015 |
| | | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2015 |
| | | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2015 |
| | Х | Pre-Amplifier | QTK | AP-180C / CHM_0906076 | Sep., 2015 |
| | | Pre-Amplifier | MITEQ | AMF-4D-180400-45-6P/ 925975 | Mar., 2015 |
| | Х | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2015 |
| | Test Receiver | | R & S | ESCS 30/ 825442/018 | Sep., 2015 |
| | Х | Coaxial Cable | QuieTek | QTK-CABLE/ CAB5 | Feb., 2015 |
| | X Controller | | QuieTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | Х | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

- 1. All equipment is calibrated once a year or as required by manufacturer.
- 2. All equipment is calibrated to traceable calibration procedures.
- 3. The test instruments marked by "X" are used to measure the final test results.

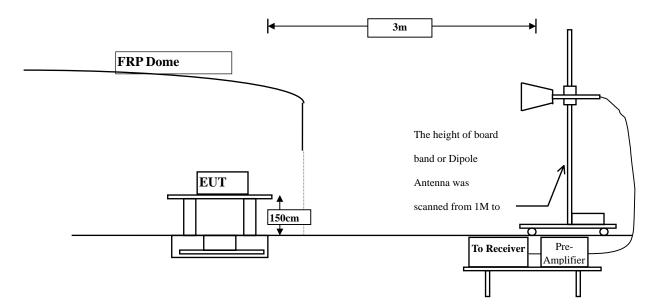


6.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:





6.3. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | | | | | |
|---|----------|-----------|--|--|--|--|
| Frequency MHz | uV/m @3m | dBµV/m@3m | | | | |
| 30-88 | 100 | 40 | | | | |
| 88-216 | 150 | 43.5 | | | | |
| 216-960 | 200 | 46 | | | | |
| Above 960 | 500 | 54 | | | | |

Remarks : 1. RF Voltage $(dB\mu V) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

6.4. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was

positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

6.5. Uncertainty

- ± 3.8 dB below 1GHz
- \pm 3.9 dB above 1GHz



6.6. Test Result of Band Edge

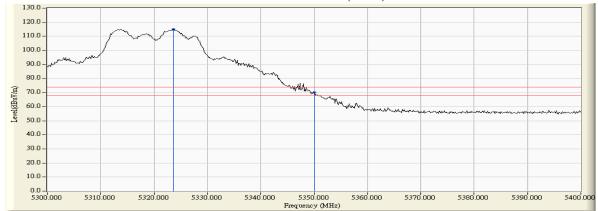
| : | 802.11ac Dual Band Access Point |
|---|--|
| : | Band Edge Data |
| : | No.3 OATS |
| : | Mode 1: Transmit (802.11a-6Mbps) -Channel 64 (5320MHz) |
| | |

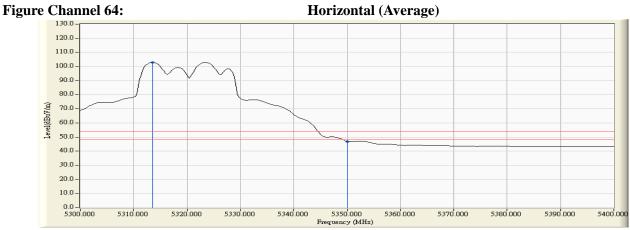
RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Emission Level (dBµV/m) | Peak Limit (dBµV/m) | Average Limit (dBµV/m) | Result |
|--------------|--------------------|---------------------------|----------------------------|-------------------------------|------------------------|---------------------------|--------|
| 64 (Peak) | 5323.623 | 3.800 | 111.084 | 114.885 | | | |
| 64 (Peak) | 5350.000 | 3.716 | 66.319 | 70.036 | 74.000 | 54.000 | Pass |
| 64 (Average) | 5313.478 | 3.833 | 99.080 | 102.913 | | | |
| 64 (Average) | 5350.000 | 3.716 | 43.105 | 46.822 | 74.000 | 54.000 | Pass |

Figure Channel 64:

Horizontal (Peak)





Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

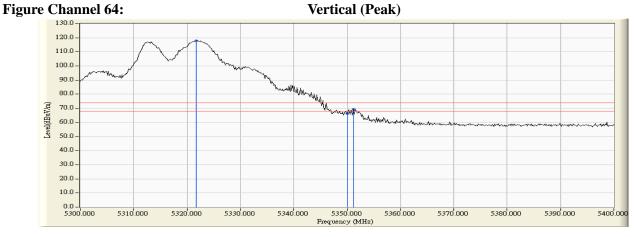
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

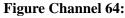


| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) -Channel 64 (5320MHz) |

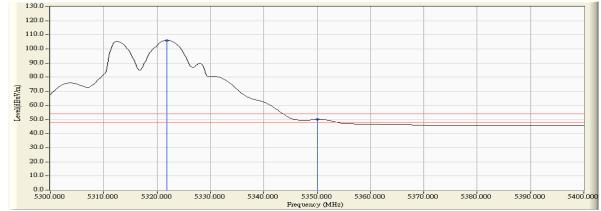
RF Radiated Measurement (Vertical):

| Channel Na | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | $(dB\mu V)$ | (dBµV/m) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | Result |
| 64 (Peak) | 5321.739 | 5.728 | 112.095 | 117.822 | | | |
| 64 (Peak) | 5350.000 | 5.691 | 60.394 | 66.086 | 74.000 | 54.000 | Pass |
| 64 (Peak) | 5351.159 | 5.690 | 63.655 | 69.345 | 74.000 | 54.000 | Pass |
| 64 (Average) | 5321.884 | 5.728 | 100.334 | 106.061 | | | |
| 64 (Average) | 5350.000 | 5.691 | 44.395 | 50.087 | 74.000 | 54.000 | Pass |





Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.



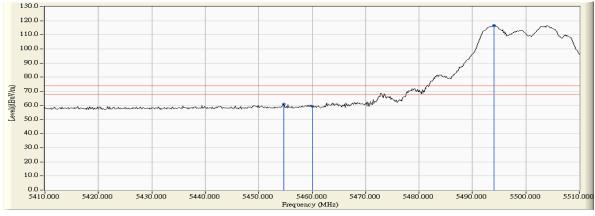
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) -Channel 100 (5500MHz) |

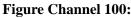
RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | (dBµV) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | $(dB\mu V/m)$ | Result |
| 100 (Peak) | 5454.638 | 4.282 | 56.711 | 60.993 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5460.000 | 4.354 | 54.912 | 59.266 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5494.058 | 4.773 | 111.819 | 116.592 | | | |
| 100 (Average) | 5460.000 | 4.354 | 41.930 | 46.284 | 74.000 | 54.000 | Pass |
| 100 (Average) | 5493.913 | 4.772 | 98.902 | 103.674 | | | |

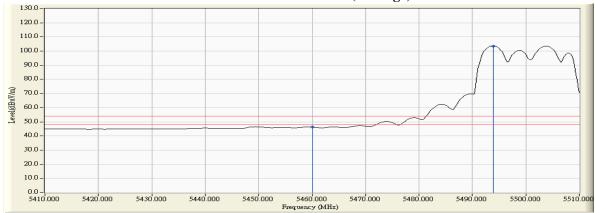
Figure Channel 100:

Horizontal (Peak)





Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.



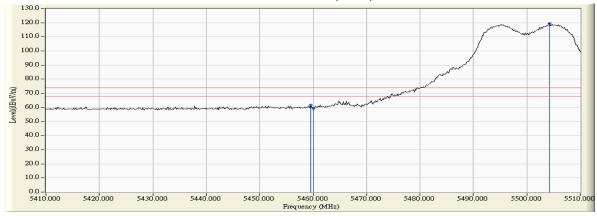
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 1: Transmit (802.11a-6Mbps) -Channel 100 (5500MHz) |

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | (dBµV) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | $(dB\mu V/m)$ | Result |
| 100 (Peak) | 5459.565 | 6.038 | 55.642 | 61.680 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5460.000 | 6.041 | 53.356 | 59.397 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5504.203 | 6.288 | 113.158 | 119.446 | | | |
| 100 (Average) | 5460.000 | 6.041 | 41.401 | 47.442 | 74.000 | 54.000 | Pass |
| 100 (Average) | 5505.072 | 6.290 | 99.628 | 105.918 | | | |

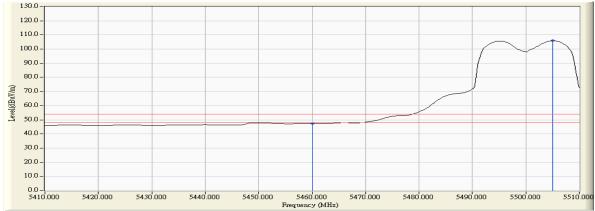
Figure Channel 100:

Vertical (Peak)





Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

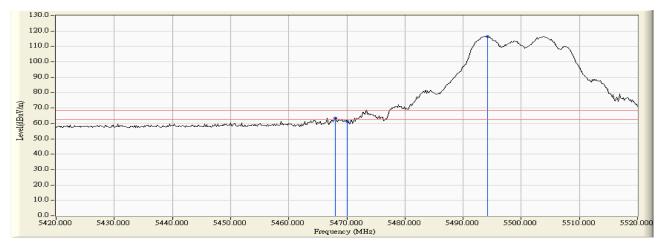
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.

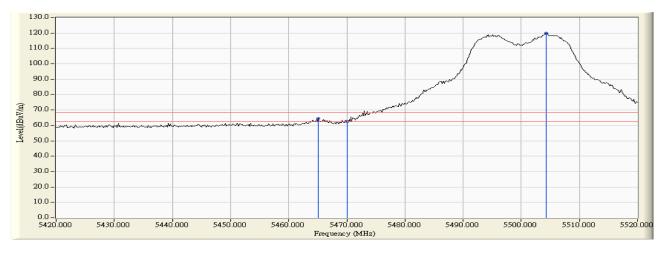


| : | 802.11ac Dual Band Access Point |
|---|---|
| : | Band Edge Data |
| : | No.3 OATS |
| : | Mode 1: Transmit (802.11a-6Mbps) -Channel 100 |
| | : : |



RF Radiated Measurement:

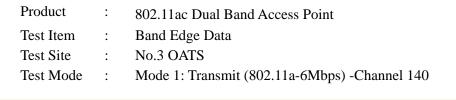
| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Horizontal | 5467.971 | 4.461 | 58.982 | 63.443 | -4.777 | 68.220 | Pass |
| Horizontal | 5470.000 | 4.488 | 56.956 | 61.444 | -6.776 | 68.220 | Pass |
| Horizontal | 5494.203 | 4.775 | 111.726 | 116.500 | | | |

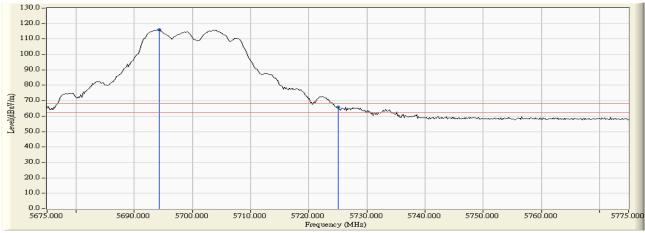


RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|----------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Vertical | 5465.072 | 6.076 | 58.524 | 64.600 | -3.620 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 56.198 | 62.309 | -5.911 | 68.220 | Pass |
| Vertical | 5504.348 | 6.288 | 113.495 | 119.783 | | | |

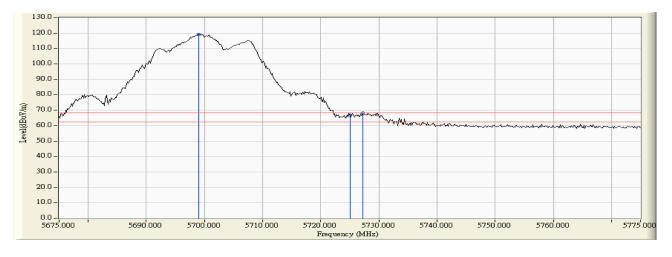






RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Horizontal | 5694.275 | 4.611 | 111.377 | 115.989 | | | |
| Horizontal | 5725.000 | 4.654 | 61.215 | 65.869 | -2.351 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|----------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Vertical | 5699.058 | 5.981 | 113.322 | 119.303 | | | |
| Vertical | 5725.000 | 5.992 | 60.956 | 66.949 | -1.271 | 68.220 | Pass |
| Vertical | 5727.174 | 5.992 | 62.167 | 68.159 | -0.061 | 68.220 | Pass |



| Product | : | 802.11ac Dual Band Access Point |
|---------|---|---------------------------------|
| | | |

Test Item : Band Edge Data

Test Site : No.3 OATS

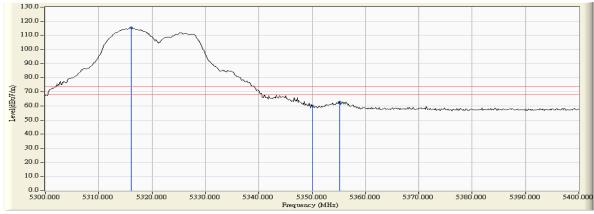
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 64 (5320MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 64 (Peak) | 5316.087 | 3.825 | 111.616 | 115.441 | | | |
| 64 (Peak) | 5350.000 | 3.716 | 56.329 | 60.046 | 74.000 | 54.000 | Pass |
| 64 (Peak) | 5355.217 | 3.700 | 59.173 | 62.872 | 74.000 | 54.000 | Pass |
| 64 (Average) | 5315.942 | 3.825 | 96.851 | 100.676 | | | |
| 64 (Average) | 5350.000 | 3.716 | 40.957 | 44.674 | 74.000 | 54.000 | Pass |
| 64 (Average) | 5353.043 | 3.707 | 41.839 | 45.546 | 74.000 | 54.000 | Pass |

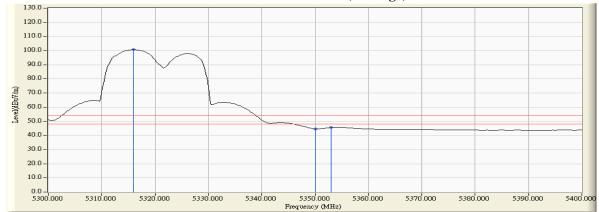
Figure Channel 64:

Horizontal (Peak)





Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.



| Product | : | 802.11ac Dual Band Access Point |
|---------|---|---------------------------------|
| | | |

Test Item Band Edge Data : No.3 OATS

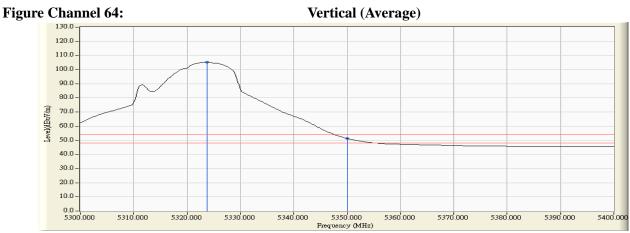
Test Site :

Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 64 (5320MHz) Test Mode :

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 64 (Peak) | 5324.783 | 5.723 | 112.816 | 118.539 | | | |
| 64 (Peak) | 5350.000 | 5.691 | 63.955 | 69.647 | 74.000 | 54.000 | Pass |
| 64 (Peak) | 5350.435 | 5.690 | 65.426 | 71.117 | 74.000 | 54.000 | Pass |
| 64 (Average) | 5323.768 | 5.724 | 99.491 | 105.215 | | | |
| 64 (Average) | 5350.000 | 5.691 | 45.606 | 51.298 | 74.000 | 54.000 | Pass |

Figure Channel 64: Vertical (Peak) 130.0 120.0 110.0 100.0 90.0 80.0 Level(dBuV/m) 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 -5310.000 5320.000 5330.000 5340.000 5350.000 Frequency (MHz) 5360.000 5370.000 5380.000 5390.000 5400.000



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

| Product | : | 802.11ac Dual Band Access Point |
|---------|---|---------------------------------|
| | | |

Test Item : Band Edge Data

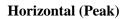
Test Site : No.3 OATS

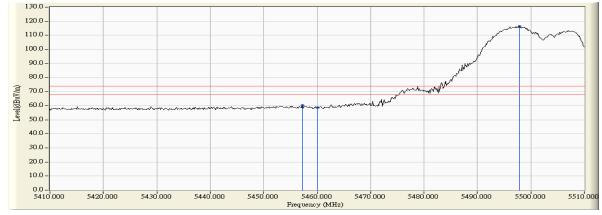
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 100 (5500MHz)

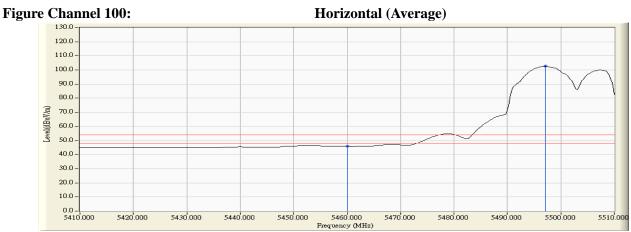
RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | Result |
| 100 (Peak) | 5457.247 | 4.318 | 55.912 | 60.229 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5460.000 | 4.354 | 54.084 | 58.438 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5497.826 | 4.799 | 111.612 | 116.411 | | | |
| 100 (Average) | 5460.000 | 4.354 | 41.550 | 45.904 | 74.000 | 54.000 | Pass |
| 100 (Average) | 5497.101 | 4.795 | 97.858 | 102.652 | | | |

Figure Channel 100:







Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

| Product : | 802.11ac Dual Band Access Point |
|-----------|---------------------------------|
|-----------|---------------------------------|

Test Item : Band Edge Data

Test Site : No.3 OATS

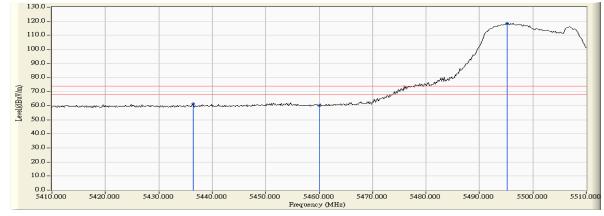
Test Mode : Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 100 (5500MHz)

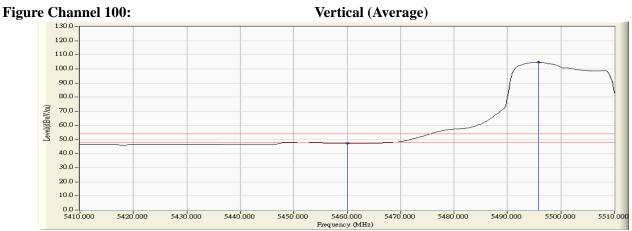
RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Degult |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 100 (Peak) | 5436.377 | 5.879 | 55.621 | 61.500 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5460.000 | 6.041 | 54.076 | 60.117 | 74.000 | 54.000 | Pass |
| 100 (Peak) | 5495.217 | 6.260 | 112.185 | 118.445 | | | |
| 100 (Average) | 5460.000 | 6.041 | 41.205 | 47.246 | 74.000 | 54.000 | Pass |
| 100 (Average) | 5495.797 | 6.262 | 98.475 | 104.737 | | | |

Figure Channel 100:







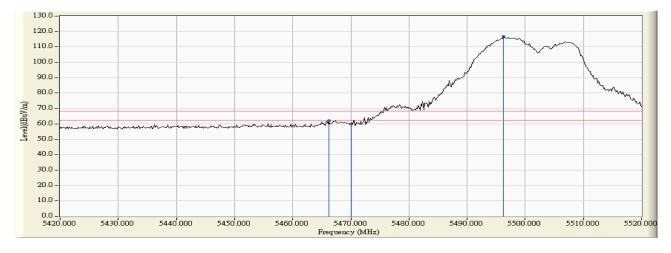
Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

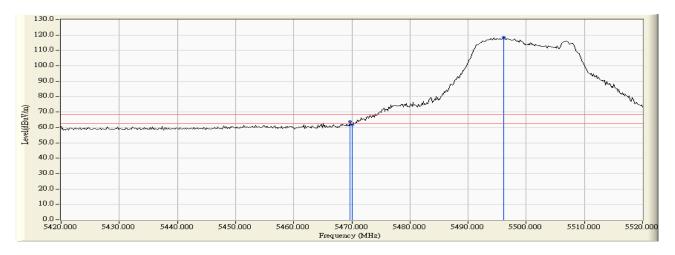


| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 2: Transmit (802.11n-20BW 21.7Mbps) -Channel 100 |
| | | |



RF Radiated Measurement:

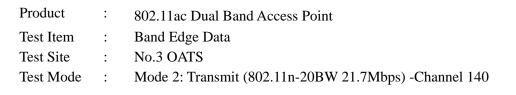
| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Horizontal | 5466.232 | 4.437 | 57.669 | 62.106 | -6.114 | 68.220 | Pass |
| Horizontal | 5470.000 | 4.488 | 55.421 | 59.909 | -8.311 | 68.220 | Pass |
| Horizontal | 5496.232 | 4.789 | 111.879 | 116.667 | | | |

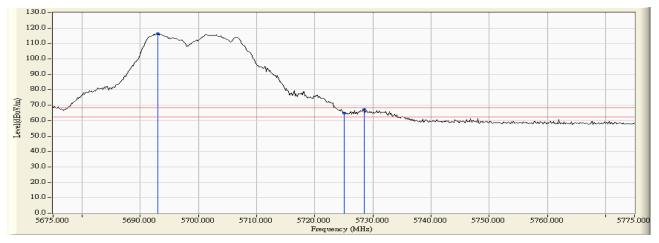


RF Radiated Measurement:

| | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Result |
|----------|-----------|----------------|---------------|---------------|--------|-----------|--------|
| | (MHz) | (dB) | (dBµV) | $(dB\mu V/m)$ | (dB) | (dBµV /m) | Result |
| Vertical | 5469.710 | 6.109 | 57.558 | 63.667 | -4.553 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 55.493 | 61.604 | -6.616 | 68.220 | Pass |
| Vertical | 5496.087 | 6.263 | 112.181 | 118.444 | | | |

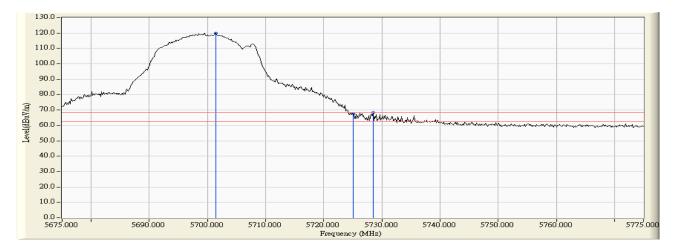






RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBµV /m) | Result |
|------------|--------------------|------------------------|-------------------------|---------------------------|----------------|--------------------|--------|
| Horizontal | | 4.609 | 111.800 | 116.408 | (uD) | (uDµ v /III) | |
| Horizontal | 5725.000 | 4.654 | 60.059 | 64.713 | -3.507 | 68.220 | Pass |
| Horizontal | 5728.478 | 4.654 | 62.437 | 67.092 | -1.128 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency | Correct Factor | Reading Level | Measure Level | Margin | Limit | Decult |
|----------|-----------|----------------|---------------|---------------|--------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | (dB) | $(dB\mu V/m)$ | Result |
| Vertical | 5701.377 | 5.985 | 114.014 | 119.998 | | | |
| Vertical | 5725.000 | 5.992 | 61.589 | 67.582 | -0.638 | 68.220 | Pass |
| Vertical | 5728.478 | 5.992 | 62.154 | 68.146 | -0.074 | 68.220 | Pass |



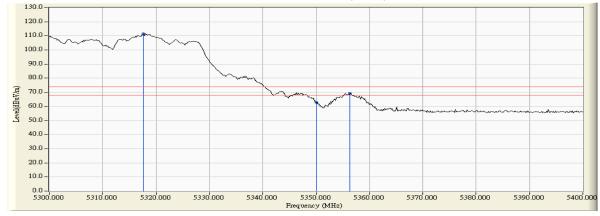
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 62 (5310MHz) |

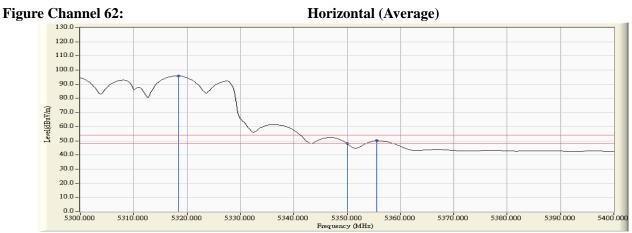
RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | (dBµV) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 62 (Peak) | 5317.681 | 3.819 | 107.680 | 111.500 | | | |
| 62 (Peak) | 5350.000 | 3.716 | 58.919 | 62.636 | 74.000 | 54.000 | Pass |
| 62 (Peak) | 5356.377 | 3.695 | 65.579 | 69.275 | 74.000 | 54.000 | Pass |
| 62 (Average) | 5318.406 | 3.817 | 92.124 | 95.941 | | | |
| 62 (Average) | 5350.000 | 3.716 | 44.212 | 47.929 | 74.000 | 54.000 | Pass |
| 62 (Average) | 5355.507 | 3.698 | 46.319 | 50.017 | 74.000 | 54.000 | Pass |

Figure Channel 62:







Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection



| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---------------------------------|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| | | |

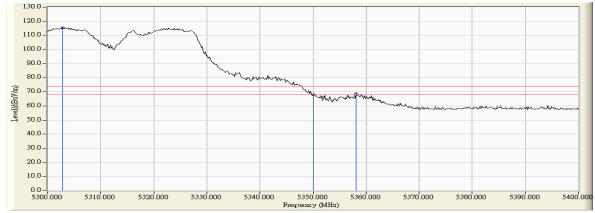
Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 62 (5310MHz)

RF Radiated Measurement (Vertical):

| Channal No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 62 (Peak) | 5302.754 | 5.752 | 109.773 | 115.525 | | | |
| 62 (Peak) | 5350.000 | 5.691 | 62.324 | 68.016 | 74.000 | 54.000 | Pass |
| 62 (Peak) | 5358.116 | 5.680 | 62.974 | 68.654 | 74.000 | 54.000 | Pass |
| 62 (Average) | 5303.333 | 5.751 | 94.608 | 100.359 | | | |
| 62 (Average) | 5350.000 | 5.691 | 47.212 | 52.904 | 74.000 | 54.000 | Pass |

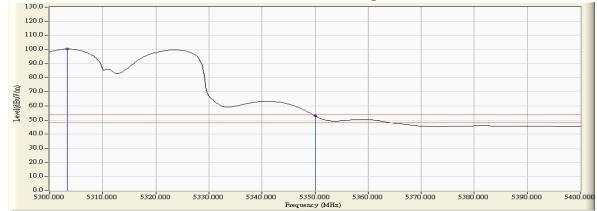
Figure Channel 62:

Vertical (Peak)





Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

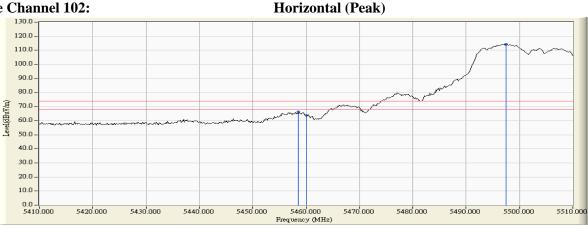
4. Measurement Level = Reading Level + Correct Factor.

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 102 (5510MHz) |

RF Radiated Measurement (Horizontal):

| Channal No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| Channel No. | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 102 (Peak) | 5458.551 | 4.335 | 61.745 | 66.079 | 74.000 | 54.000 | Pass |
| 102 (Peak) | 5460.000 | 4.354 | 59.520 | 63.874 | 74.000 | 54.000 | Pass |
| 102 (Peak) | 5497.536 | 4.797 | 109.442 | 114.239 | | | |
| 102 (Average) | 5458.116 | 4.329 | 45.418 | 49.747 | 74.000 | 54.000 | Pass |
| 102 (Average) | 5460.000 | 4.354 | 43.951 | 48.305 | 74.000 | 54.000 | Pass |
| 102 (Average) | 5497.246 | 4.796 | 94.188 | 98.983 | | | |

Figure Channel 102:





Horizontal (Average)



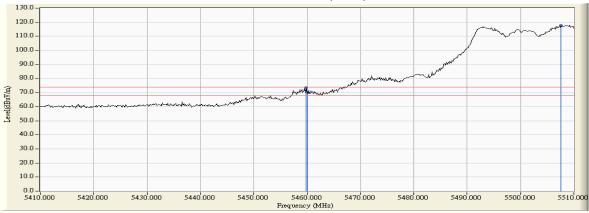
Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

| RF Radiated Measurement (Vertical): | | | | | | |
|-------------------------------------|---|---|--|--|--|--|
| Test Mode | : | Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 102 (5510MHz) | | | | |
| Test Site | : | No.3 OATS | | | | |
| Test Item | : | Band Edge Data | | | | |
| Product | : | 802.11ac Dual Band Access Point | | | | |

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | |
| 102 (Peak) | 5459.855 | 6.040 | 67.394 | 73.434 | 74.000 | 54.000 | Pass |
| 102 (Peak) | 5460.000 | 6.041 | 64.015 | 70.056 | 74.000 | 54.000 | Pass |
| 102 (Peak) | 5507.536 | 6.273 | 111.617 | 117.891 | | | |
| 102 (Average) | 5452.319 | 5.987 | 46.574 | 52.561 | 74.000 | 54.000 | Pass |
| 102 (Average) | 5460.000 | 6.041 | 46.113 | 52.154 | 74.000 | 54.000 | Pass |
| 102 (Average) | 5508.551 | 6.268 | 96.761 | 103.028 | | | |

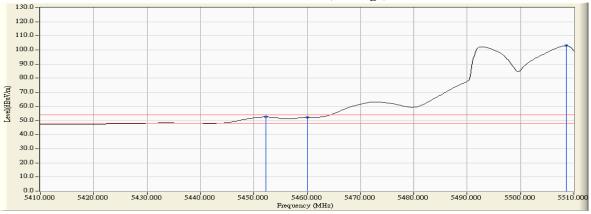
Figure Channel 102:



Vertical (Peak)



Vertical (Average)



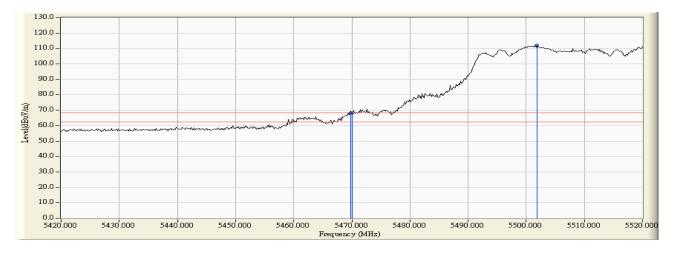
Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection



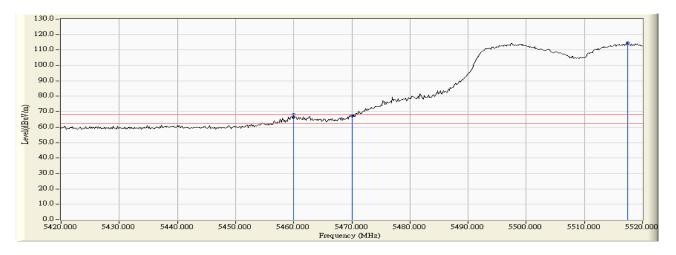
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---------------------------------|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |

Test Mode : Mode 3: Transmit (802.11n-40BW 45Mbps) -Channel 102



RF Radiated Measurement:

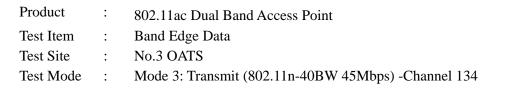
| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Horizontal | 5469.855 | 4.485 | 63.715 | 68.201 | -0.019 | 68.220 | Pass |
| Horizontal | 5470.000 | 4.488 | 63.379 | 67.867 | -0.353 | 68.220 | Pass |
| Horizontal | 5501.884 | 4.827 | 107.391 | 112.218 | | | |

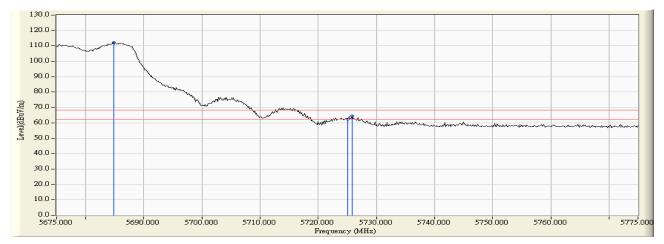


<u>RF</u> Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|----------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Vertical | 5460.000 | 6.041 | 62.142 | 68.183 | -0.037 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 61.181 | 67.292 | -0.928 | 68.220 | Pass |
| Vertical | 5517.391 | 6.211 | 108.368 | 114.579 | | | |

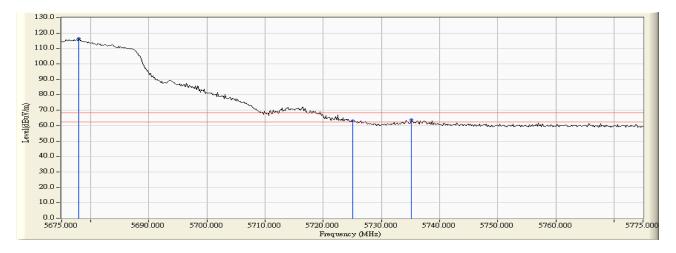






RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV/m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|-------------------|--------|
| Horizontal | 5684.855 | 4.566 | 107.583 | 112.149 | | | |
| Horizontal | 5725.000 | 4.654 | 57.738 | 62.392 | -5.828 | 68.220 | Pass |
| Horizontal | 5725.870 | 4.655 | 59.940 | 64.594 | -3.626 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|----------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Vertical | 5677.899 | 5.931 | 110.587 | 116.517 | | | |
| Vertical | 5725.000 | 5.992 | 56.988 | 62.981 | -5.239 | 68.220 | Pass |
| Vertical | 5735.145 | 5.991 | 57.696 | 63.687 | -4.533 | 68.220 | Pass |



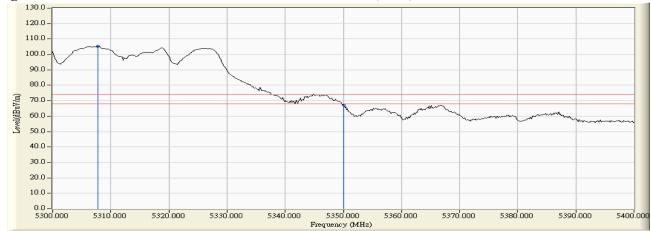
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit (802.11ac-80BW-97.5Mbps) -Channel 58 |

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Degult |
|--------------|-----------|----------------|---------------|----------------|------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | $(dB\mu V/m)$ | (dBµV/m) | (dBµV/m) | Result |
| 58 (Peak) | 5307.826 | 3.852 | 101.320 | 105.172 | | | |
| 58 (Peak) | 5350.000 | 3.716 | 63.707 | 67.424 | 74.000 | 54.000 | Pass |
| 58 (Average) | 5307.391 | 3.853 | 84.217 | 88.070 | | | |
| 58 (Average) | 5350.000 | 3.716 | 45.238 | 48.955 | 74.000 | 54.000 | Pass |

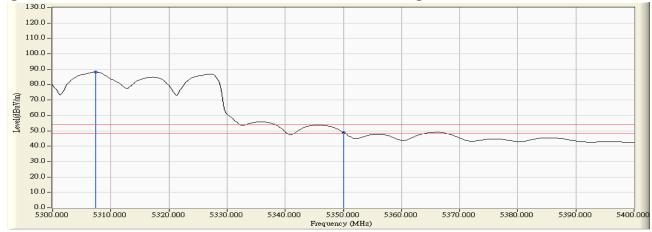
Figure Channel 58:

Horizontal (Peak)





Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection



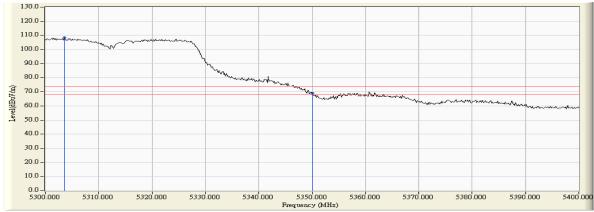
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit (802.11ac-80BW-97.5Mbps) -Channel 58 |

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|--------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 58 (Peak) | 5303.623 | 5.750 | 102.803 | 108.553 | | | |
| 58 (Peak) | 5350.000 | 5.691 | 63.208 | 68.900 | 74.000 | 54.000 | Pass |
| 58 (Average) | 5304.058 | 5.750 | 84.891 | 90.641 | | | |
| 58 (Average) | 5350.000 | 5.691 | 47.110 | 52.802 | 74.000 | 54.000 | Pass |
| 58 (Average) | 5358.261 | 5.680 | 47.354 | 53.034 | 74.000 | 54.000 | Pass |

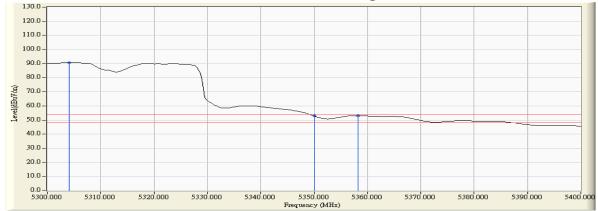
Figure Channel 58:

Vertical (Peak)





Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.

3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

4. Measurement Level = Reading Level + Correct Factor.

5. The average measurement was not performed when the peak measured data under the limit of average detection



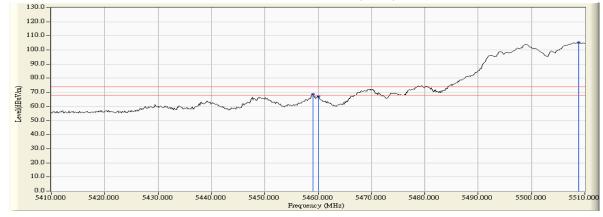
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit (802.11ac-80BW-97.5Mbps) -Channel 106 |

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Desult |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | $(dB\mu V/m)$ | Result |
| 106 (Peak) | 5458.986 | 4.340 | 64.371 | 68.711 | 74.000 | 54.000 | Pass |
| 106 (Peak) | 5460.000 | 4.354 | 62.859 | 67.213 | 74.000 | 54.000 | Pass |
| 106 (Peak) | 5508.841 | 4.818 | 100.462 | 105.280 | | | |
| 106 (Average) | 5460.000 | 4.354 | 44.822 | 49.176 | 74.000 | 54.000 | Pass |
| 106 (Average) | 5508.261 | 4.823 | 82.826 | 87.649 | | | |

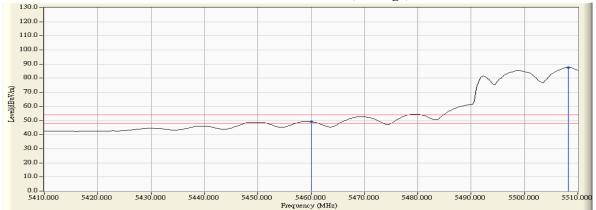
Figure Channel 106:

Horizontal (Peak)





Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection



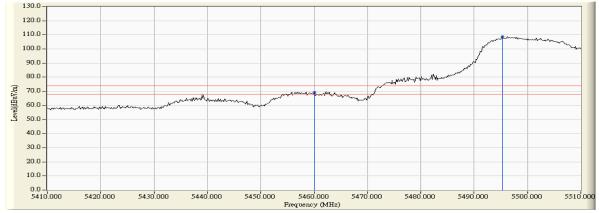
| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|--|
| Test Item | : | Band Edge Data |
| Test Site | : | No.3 OATS |
| Test Mode | : | Mode 4: Transmit (802.11ac-80BW-97.5Mbps) -Channel 106 |

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Decult |
|---------------|-----------|----------------|---------------|----------------|---------------|---------------|--------|
| | (MHz) | (dB) | (dBµV) | (dBµV/m) | $(dB\mu V/m)$ | (dBµV/m) | Result |
| 106 (Peak) | 5460.000 | 6.041 | 63.458 | 69.499 | 83.540 | 63.540 | Pass |
| 106 (Peak) | 5495.362 | 6.261 | 102.611 | 108.872 | | | |
| 106 (Average) | 5457.391 | 6.023 | 47.181 | 53.203 | 83.540 | 63.540 | Pass |
| 106 (Average) | 5460.000 | 6.041 | 46.435 | 52.476 | 83.540 | 63.540 | Pass |
| 106 (Average) | 5496.232 | 6.264 | 85.017 | 91.280 | | | |

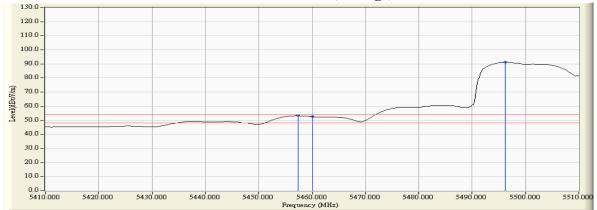
Figure Channel 106:

Vertical (Peak)





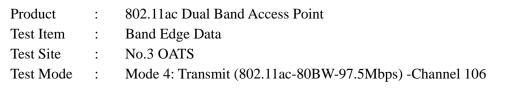
Vertical (Average)

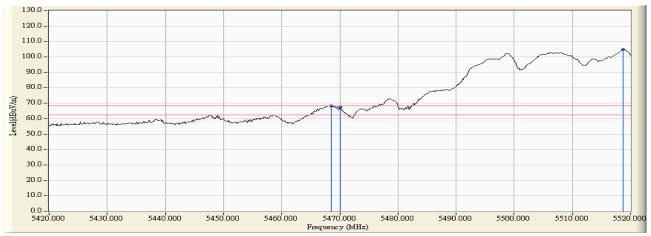


Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection

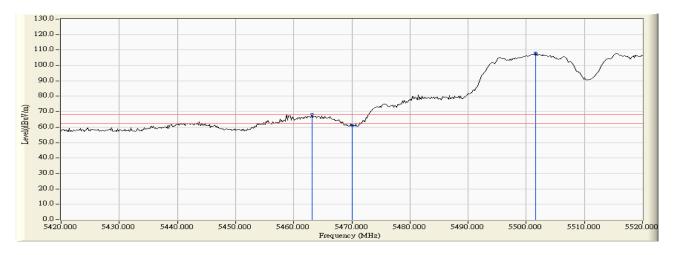






RF Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV/m) | Result |
|------------|--------------------|------------------------|-------------------------|----------------------------|----------------|-------------------|--------|
| Horizontal | 5468.551 | 4.468 | 63.684 | 68.152 | -0.068 | 68.220 | Pass |
| Horizontal | 5470.000 | 4.488 | 63.082 | 67.570 | -0.650 | 68.220 | Pass |
| Horizontal | 5518.696 | 4.739 | 100.289 | 105.028 | | | |



<u>RF</u> Radiated Measurement:

| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBµV) | Measure Level (dBµV /m) | Margin (dB) | Limit (dBµV /m) | Result |
|----------|--------------------|------------------------|-------------------------|----------------------------|----------------|--------------------|--------|
| Vertical | 5463.188 | 6.063 | 62.080 | 68.143 | -0.077 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 54.795 | 60.906 | -7.314 | 68.220 | Pass |
| Vertical | 5501.594 | 6.280 | 101.591 | 107.871 | | | |

7. Frequency Stability

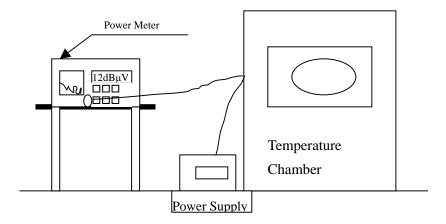
7.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2015 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2015 |
| Х | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

- 1. All equipment is calibrated once a year or as required by manufacturer.
- 2. All equipment is calibrated to traceable calibration procedures.
- 3. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

Manufactures 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

7.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

± 150 Hz

7.6. Test Result of Frequency Stability

| Product | : | 802.11ac Dual Band Access Point |
|-----------|---|---------------------------------|
| Test Item | : | Frequency Stability |
| Test Site | : | Temperature Chamber |
| Test Mode | : | Carrier Wave |

Chain A

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9910 | 0.0090 |
| | | 54 | 5270.0000 | 5269.9950 | 0.0050 |
| | | 60 | 5300.0000 | 5299.9940 | 0.0060 |
| | Vmax (120)V | 62 | 5310.0000 | 5309.9960 | 0.0040 |
| | | 64 | 5320.0000 | 5319.9970 | 0.0030 |
| Tmin (20) oC | | 100 | 5500.0000 | 5499.9930 | 0.0070 |
| | | 102 | 5510.0000 | 5509.9950 | 0.0050 |
| | | 110 | 5550.0000 | 5549.9940 | 0.0060 |
| | | 116 | 5580.0000 | 5579.9970 | 0.0030 |
| | | 134 | 5670.0000 | 5669.9950 | 0.0050 |
| | | 140 | 5700.0000 | 5699.9940 | 0.0060 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9970 | 0.0030 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9960 | 0.0040 |
| | Vmax (138)V | 62 | 5310.0000 | 5309.9970 | 0.0030 |
| | | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9980 | 0.0020 |
| | | 102 | 5510.0000 | 5509.9970 | 0.0030 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9960 | 0.0040 |
| | | 134 | 5670.0000 | 5669.9970 | 0.0030 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9970 | 0.0030 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9960 | 0.0040 |
| | Vmax (102)V | 62 | 5310.0000 | 5309.9970 | 0.0030 |
| | | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9980 | 0.0020 |
| | | 102 | 5510.0000 | 5509.9970 | 0.0030 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9960 | 0.0040 |
| | | 134 | 5670.0000 | 5669.9970 | 0.0030 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-------------------|-------------|---------|--------------------|--------------------|----------|
| | | 54 | 5260.0000 | 5259.9420 | 0.0580 |
| | | 60 | 5270.0000 | 5269.9350 | 0.0650 |
| | Vmax (138)V | 62 | 5300.0000 | 5299.9320 | 0.0680 |
| | | 64 | 5310.0000 | 5309.9260 | 0.0740 |
| T_{min} (10) oC | | 100 | 5320.0000 | 5319.9280 | 0.0720 |
| Tmin (-10) oC | | 102 | 5500.0000 | 5499.9320 | 0.0680 |
| | | 110 | 5510.0000 | 5509.9290 | 0.0710 |
| | | 116 | 5550.0000 | 5549.9180 | 0.0820 |
| | | 134 | 5580.0000 | 5579.9190 | 0.0810 |
| | | 140 | 5670.0000 | 5669.9320 | 0.0680 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9420 | 0.0580 |
| | | 54 | 5270.0000 | 5269.9350 | 0.0650 |
| | | 60 | 5300.0000 | 5299.9320 | 0.0680 |
| | Vmax (102)V | 62 | 5310.0000 | 5309.9260 | 0.0740 |
| | | 64 | 5320.0000 | 5319.9280 | 0.0720 |
| Tmin (-10) oC | | 100 | 5500.0000 | 5499.9320 | 0.0680 |
| | | 102 | 5510.0000 | 5509.9290 | 0.0710 |
| | | 110 | 5550.0000 | 5549.9180 | 0.0820 |
| | | 116 | 5580.0000 | 5579.9190 | 0.0810 |
| | | 134 | 5670.0000 | 5669.9320 | 0.0680 |
| | | 140 | 5700.0000 | 5699.9260 | 0.0740 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|----------|
| | | 58 | 5290.0000 | 5289.9940 | 0.0060 |
| Tmin (20) oC | Vmax (120)V | 106 | 5530.0000 | 5529.9960 | 0.0040 |
| | | 122 | 5610.0000 | 5609.9950 | 0.0050 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | Vmax (138)V | 58 | 5290.0000 | 5290.0070 | -0.0070 |
| Tmin (50) oC | | 106 | 5530.0000 | 5530.0030 | -0.0030 |
| | | 122 | 5610.0000 | 5610.0010 | -0.0010 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| Tmin (50) oC | | 58 | 5290.0000 | 5290.0070 | -0.0070 |
| | Vmax (102)V | 106 | 5530.0000 | 5530.0030 | -0.0030 |
| | | 122 | 5610.0000 | 5610.0010 | -0.0010 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-----------------|---------|-----------------|-----------------|----------|
| | | 58 | 5290.0000 | 5290.0610 | -0.0610 |
| Tmin (-10) oC | Vmax (138)V | 106 | 5530.0000 | 5530.0770 | -0.0770 |
| | | 122 | 5610.0000 | 5610.0690 | -0.0690 |
| Test Co | Test Conditions | | Frequency (MHz) | Frequency (MHz) | ∆F (MHz) |
| | | 58 | 5290.0000 | 5290.0610 | -0.0610 |
| Tmin (-10) oC | Vmax (102)V | 106 | 5530.0000 | 5530.0770 | -0.0770 |
| | | 122 | 5610.0000 | 5610.0690 | -0.0690 |

| Chain | B |
|-------|---|
|-------|---|

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9960 | 0.0040 |
| | | 54 | 5270.0000 | 5269.9960 | 0.0040 |
| | | 60 | 5300.0000 | 5299.9980 | 0.0020 |
| | Vmax (120)V | 62 | 5310.0000 | 5309.9990 | 0.0010 |
| | | 64 | 5320.0000 | 5319.9940 | 0.0060 |
| Tmin (20) oC | | 100 | 5500.0000 | 5499.9930 | 0.0070 |
| | | 102 | 5510.0000 | 5509.9920 | 0.0080 |
| | | 110 | 5550.0000 | 5549.9940 | 0.0060 |
| | | 116 | 5580.0000 | 5579.9990 | 0.0010 |
| | | 134 | 5670.0000 | 5669.9950 | 0.0050 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9980 | 0.0020 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9970 | 0.0030 |
| | Vmax (138)V | 62 | 5310.0000 | 5309.9960 | 0.0040 |
| | | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9970 | 0.0030 |
| | | 102 | 5510.0000 | 5509.9980 | 0.0020 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9970 | 0.0030 |
| | | 134 | 5670.0000 | 5669.9960 | 0.0040 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9980 | 0.0020 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9970 | 0.0030 |
| | Vmax (102)V | 62 | 5310.0000 | 5309.9960 | 0.0040 |
| | | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9970 | 0.0030 |
| | | 102 | 5510.0000 | 5509.9980 | 0.0020 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9970 | 0.0030 |
| | | 134 | 5670.0000 | 5669.9960 | 0.0040 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9260 | 0.0740 |
| | | 54 | 5270.0000 | 5269.9180 | 0.0820 |
| | | 60 | 5300.0000 | 5299.9320 | 0.0680 |
| | | 62 | 5310.0000 | 5309.9280 | 0.0720 |
| | Vmax (138)V | 64 | 5320.0000 | 5319.9180 | 0.0820 |
| Tmin (-10) oC | | 100 | 5500.0000 | 5499.9320 | 0.0680 |
| | | 102 | 5510.0000 | 5509.9420 | 0.0580 |
| | | 110 | 5550.0000 | 5549.9260 | 0.0740 |
| | | 116 | 5580.0000 | 5579.9180 | 0.0820 |
| | | 134 | 5670.0000 | 5669.9320 | 0.0680 |
| | | 140 | 5700.0000 | 5699.9420 | 0.0580 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9260 | 0.0740 |
| | | 54 | 5270.0000 | 5269.9180 | 0.0820 |
| | | 60 | 5300.0000 | 5299.9320 | 0.0680 |
| | | 62 | 5310.0000 | 5309.9280 | 0.0720 |
| | Vmax (102)V | 64 | 5320.0000 | 5319.9180 | 0.0820 |
| Tmin (-10) oC | | 100 | 5500.0000 | 5499.9320 | 0.0680 |
| | | 102 | 5510.0000 | 5509.9420 | 0.0580 |
| | | 110 | 5550.0000 | 5549.9260 | 0.0740 |
| | | 116 | 5580.0000 | 5579.9180 | 0.0820 |
| | | 134 | 5670.0000 | 5669.9320 | 0.0680 |
| | | 140 | 5700.0000 | 5699.9420 | 0.0580 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|----------|
| | | 58 | 5290.0000 | 5289.9930 | 0.0070 |
| Tmin (20) oC | Vmax (120)V | 106 | 5530.0000 | 5529.9950 | 0.0050 |
| | | 122 | 5610.0000 | 5609.9960 | 0.0040 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | Vmax (138)V | 58 | 5290.0000 | 5290.0060 | -0.0060 |
| Tmin (50) oC | | 106 | 5530.0000 | 5530.0070 | -0.0070 |
| | | 122 | 5610.0000 | 5610.0080 | -0.0080 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | | 58 | 5290.0000 | 5290.0060 | -0.0060 |
| min (50) oC | Vmax (102)V | 106 | 5530.0000 | 5530.0070 | -0.0070 |
| | | 122 | 5610.0000 | 5610.0080 | -0.0080 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-----------------|---------|-----------------|-----------------|----------|
| | | 58 | 5290.0000 | 5290.0560 | -0.0560 |
| Tmin (-10) oC | Vmax (138)V | 106 | 5530.0000 | 5530.0720 | -0.0720 |
| | | 102 | 5610.0000 | 5610.0870 | -0.0870 |
| Test Co | Test Conditions | | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | | 58 | 5290.0000 | 5290.0560 | -0.0560 |
| Tmin (-10) oC | Vmax (102)V | 106 | 5530.0000 | 5530.0720 | -0.0720 |
| | | 102 | 5610.0000 | 5610.0870 | -0.0870 |

| Chain (| С |
|---------|---|
|---------|---|

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9960 | 0.0040 |
| | | 54 | 5270.0000 | 5269.9950 | 0.0050 |
| | | 60 | 5300.0000 | 5299.9990 | 0.0010 |
| | | 62 | 5310.0000 | 5309.9950 | 0.0050 |
| | Vmax (120)V | 64 | 5320.0000 | 5319.9970 | 0.0030 |
| Tmin (20) oC | | 100 | 5500.0000 | 5499.9960 | 0.0040 |
| | | 102 | 5510.0000 | 5509.9920 | 0.0080 |
| | | 110 | 5550.0000 | 5549.9940 | 0.0060 |
| | | 116 | 5580.0000 | 5579.9990 | 0.0010 |
| | | 134 | 5670.0000 | 5669.9960 | 0.0040 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9990 | 0.0010 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9970 | 0.0030 |
| | | 62 | 5310.0000 | 5309.9980 | 0.0020 |
| | Vmax (138)V | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9990 | 0.0010 |
| | | 102 | 5510.0000 | 5509.9990 | 0.0010 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9970 | 0.0030 |
| | | 134 | 5670.0000 | 5669.9980 | 0.0020 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9990 | 0.0010 |
| | | 54 | 5270.0000 | 5269.9980 | 0.0020 |
| | | 60 | 5300.0000 | 5299.9970 | 0.0030 |
| | Vmax (102)V | 62 | 5310.0000 | 5309.9980 | 0.0020 |
| | | 64 | 5320.0000 | 5319.9980 | 0.0020 |
| Tmin (50) oC | | 100 | 5500.0000 | 5499.9990 | 0.0010 |
| | | 102 | 5510.0000 | 5509.9990 | 0.0010 |
| | | 110 | 5550.0000 | 5549.9980 | 0.0020 |
| | | 116 | 5580.0000 | 5579.9970 | 0.0030 |
| | | 134 | 5670.0000 | 5669.9980 | 0.0020 |
| | | 140 | 5700.0000 | 5699.9980 | 0.0020 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9340 | 0.0660 |
| | | 54 | 5270.0000 | 5269.9180 | 0.0820 |
| | | 60 | 5300.0000 | 5299.9380 | 0.0620 |
| | Vmax (138)V | 62 | 5310.0000 | 5309.9260 | 0.0740 |
| | | 64 | 5320.0000 | 5319.9320 | 0.0680 |
| Tmin (-10) oC | | 100 | 5500.0000 | 5499.9340 | 0.0660 |
| | | 102 | 5510.0000 | 5509.9380 | 0.0620 |
| | | 110 | 5550.0000 | 5549.9230 | 0.0770 |
| | | 116 | 5580.0000 | 5579.9180 | 0.0820 |
| | | 134 | 5670.0000 | 5669.9350 | 0.0650 |
| | | 140 | 5700.0000 | 5699.9260 | 0.0740 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|--------------------|--------------------|----------|
| | | 52 | 5260.0000 | 5259.9340 | 0.0660 |
| | | 54 | 5270.0000 | 5269.9180 | 0.0820 |
| | | 60 | 5300.0000 | 5299.9380 | 0.0620 |
| | | 62 | 5310.0000 | 5309.9260 | 0.0740 |
| | Vmax (102)V | 64 | 5320.0000 | 5319.9320 | 0.0680 |
| Tmin (-10) oC | | 100 | 5500.0000 | 5499.9340 | 0.0660 |
| | | 102 | 5510.0000 | 5509.9380 | 0.0620 |
| | | 110 | 5550.0000 | 5549.9230 | 0.0770 |
| | | 116 | 5580.0000 | 5579.9180 | 0.0820 |
| | | 134 | 5670.0000 | 5669.9350 | 0.0650 |
| | | 140 | 5700.0000 | 5699.9260 | 0.0740 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-----------------|---------|-----------------|-----------------|----------|
| | | 58 | 5290.0000 | 5289.9960 | 0.0040 |
| Tmin (20) oC | Vmax (120)V | 106 | 5530.0000 | 5529.9950 | 0.0050 |
| | | 122 | 5610.0000 | 5609.9940 | 0.0060 |
| Test Co | Test Conditions | | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | Vmax (138)V | 58 | 5290.0000 | 5290.0090 | -0.0090 |
| Tmin (50) oC | | 106 | 5530.0000 | 5530.0030 | -0.0030 |
| | | 122 | 5610.0000 | 5610.0040 | -0.0040 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
| | | 58 | 5290.0000 | 5290.0090 | -0.0090 |
| min (50) oC | Vmax (102)V | 106 | 5530.0000 | 5530.0030 | -0.0030 |
| | | 122 | 5610.0000 | 5610.0040 | -0.0040 |



| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | △F (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|----------|
| Tmin (-10) oC | Vmax (138)V | 58 | 5290.0000 | 5290.0670 | -0.0670 |
| | | 106 | 5530.0000 | 5530.0580 | -0.0580 |
| | | 102 | 5610.0000 | 5610.0540 | -0.0540 |
| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ∆F (MHz) |
| Tmin (-10) oC | Vmax (102)V | 58 | 5290.0000 | 5290.0670 | -0.0670 |
| | | 106 | 5530.0000 | 5530.0580 | -0.0580 |
| | | 102 | 5610.0000 | 5610.0540 | -0.0540 |





8. EMI Reduction Method During Compliance Testing

No modification was made during testing.