



## Appendix B. Radiated Spurious Emission

|                 |                                                  |                     |         |
|-----------------|--------------------------------------------------|---------------------|---------|
| Test Engineer : | Elvis Chen, Stan Hsieh, Karl Hou,<br>and Nick Yu | Temperature :       | 21~23°C |
|                 |                                                  | Relative Humidity : | 60~63%  |

&lt;Sample 1&gt;

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI<br>Ant.                | Note                                                                                        | Frequency | Level      | Over<br>Limit | Limit<br>Line | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Peak<br>Avg. | Pol.    |
|-----------------------------|---------------------------------------------------------------------------------------------|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|--------------|--------------|---------|
| 1                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )        | ( dBμV/m )    | ( dBμV )      | ( dB/m )          | ( dB )        | ( dB )           | ( cm )     | ( deg )      | ( P/A )      | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 5148.05   | 61.18      | -12.82        | 74            | 53.83         | 31.98             | 7.94          | 32.57            | 100        | 241          | P            | H       |
|                             |                                                                                             | 5149.85   | 48.76      | -5.24         | 54            | 41.41         | 31.98             | 7.94          | 32.57            | 100        | 241          | A            | H       |
|                             | *                                                                                           | 5178      | 110.37     | -             | -             | 103.01        | 32.02             | 7.91          | 32.57            | 100        | 241          | P            | H       |
|                             | *                                                                                           | 5178      | 102.27     | -             | -             | 94.91         | 32.02             | 7.91          | 32.57            | 100        | 241          | A            | H       |
|                             |                                                                                             | 5450.32   | 50.75      | -23.25        | 74            | 42.69         | 32.34             | 8.29          | 32.57            | 100        | 244          | P            | H       |
|                             |                                                                                             | 5352.42   | 41.32      | -12.68        | 54            | 33.44         | 32.22             | 8.23          | 32.57            | 100        | 244          | A            | H       |
|                             |                                                                                             | 5147.6    | 60.64      | -13.36        | 74            | 53.29         | 31.98             | 7.94          | 32.57            | 100        | 270          | P            | V       |
|                             |                                                                                             | 5149.25   | 49.21      | -4.79         | 54            | 41.86         | 31.98             | 7.94          | 32.57            | 100        | 270          | A            | V       |
|                             | *                                                                                           | 5179      | 110.53     | -             | -             | 103.17        | 32.02             | 7.91          | 32.57            | 100        | 270          | P            | V       |
|                             | *                                                                                           | 5179      | 103.27     | -             | -             | 95.91         | 32.02             | 7.91          | 32.57            | 100        | 270          | A            | V       |
|                             |                                                                                             | 5399.94   | 50.55      | -23.45        | 74            | 42.55         | 32.28             | 8.29          | 32.57            | 100        | 270          | P            | V       |
|                             |                                                                                             | 5383.11   | 42.1       | -11.9         | 54            | 34.12         | 32.26             | 8.29          | 32.57            | 100        | 270          | A            | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |               |               |               |                   |               |                  |            |              |              |         |

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10359                | 45.39               | -28.61                  | 74                          | 56.85                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             | 15540                | 44.87               | -29.13                  | 74                          | 52.26                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 10359                | 45.25               | -28.75                  | 74                          | 56.71                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             | 15540                | 47.5                | -26.5                   | 74                          | 54.89                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



&lt;Sample 2&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                   | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 1                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 5148.2    | 61.26      | -12.74     | 74         | 53.91      | 31.98          | 7.94       | 32.57         | 100     | 219       | P         | H       |
|                             |                                                                                             | 5150      | 50.11      | -3.89      | 54         | 42.76      | 31.98          | 7.94       | 32.57         | 100     | 219       | A         | H       |
|                             | *                                                                                           | 5182      | 110.12     | -          | -          | 102.76     | 32.02          | 7.91       | 32.57         | 100     | 219       | P         | H       |
|                             | *                                                                                           | 5182      | 102.14     | -          | -          | 94.78      | 32.02          | 7.91       | 32.57         | 100     | 219       | A         | H       |
|                             |                                                                                             | 5381.79   | 52.97      | -21.03     | 74         | 44.99      | 32.26          | 8.29       | 32.57         | 100     | 219       | P         | H       |
|                             |                                                                                             | 5350.44   | 42.94      | -11.06     | 54         | 35.06      | 32.22          | 8.23       | 32.57         | 100     | 219       | A         | H       |
|                             |                                                                                             | 5149.25   | 60.78      | -13.22     | 74         | 53.43      | 31.98          | 7.94       | 32.57         | 100     | 301       | P         | V       |
|                             |                                                                                             | 5149.7    | 50.27      | -3.73      | 54         | 42.92      | 31.98          | 7.94       | 32.57         | 100     | 301       | A         | V       |
|                             | *                                                                                           | 5181      | 108.25     | -          | -          | 100.89     | 32.02          | 7.91       | 32.57         | 100     | 301       | P         | V       |
|                             | *                                                                                           | 5181      | 101.64     | -          | -          | 94.28      | 32.02          | 7.91       | 32.57         | 100     | 301       | A         | V       |
|                             |                                                                                             | 5364.96   | 51.83      | -22.17     | 74         | 43.87      | 32.24          | 8.29       | 32.57         | 100     | 301       | P         | V       |
|                             |                                                                                             | 5353.41   | 42.2       | -11.8      | 54         | 34.32      | 32.22          | 8.23       | 32.57         | 100     | 301       | A         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |            |               |         |           |           |         |

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10359                | 46.08               | -27.92                  | 74                          | 57.54                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             | 15540                | 44.32               | -29.68                  | 74                          | 51.71                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 10359                | 45.94               | -28.06                  | 74                          | 57.4                    | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             | 15537                | 50.68               | -23.32                  | 74                          | 58.07                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



&lt;Sample 3&gt;

**Band 1 - 5150~5250MHz****WIFI 802.11a (Band Edge @ 3m)**

| WIFI Ant.                            | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|--------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|-------|
| 1                                    |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 5149.55   | 66.67      | -7.33      | 74         | 59.32      | 31.98          | 7.94       | 32.57         | 100     | 262       | P         | H     |
|                                      |                                                                                             | 5150      | 50.61      | -3.39      | 54         | 43.26      | 31.98          | 7.94       | 32.57         | 100     | 262       | A         | H     |
|                                      | *                                                                                           | 5178      | 109.55     | -          | -          | 102.19     | 32.02          | 7.91       | 32.57         | 100     | 262       | P         | H     |
|                                      | *                                                                                           | 5178      | 102.97     | -          | -          | 95.61      | 32.02          | 7.91       | 32.57         | 100     | 262       | A         | H     |
|                                      |                                                                                             | 5453.62   | 50.12      | -23.88     | 74         | 42.06      | 32.34          | 8.29       | 32.57         | 100     | 262       | P         | H     |
|                                      |                                                                                             | 5377.17   | 41.62      | -12.38     | 54         | 33.66      | 32.24          | 8.29       | 32.57         | 100     | 262       | A         | H     |
|                                      |                                                                                             | 5148.5    | 60.58      | -13.42     | 74         | 53.23      | 31.98          | 7.94       | 32.57         | 100     | 271       | P         | V     |
|                                      |                                                                                             | 5149.7    | 51.35      | -2.65      | 54         | 44         | 31.98          | 7.94       | 32.57         | 100     | 271       | A         | V     |
|                                      | *                                                                                           | 5179      | 110.76     | -          | -          | 103.4      | 32.02          | 7.91       | 32.57         | 100     | 271       | P         | V     |
|                                      | *                                                                                           | 5179      | 103.43     | -          | -          | 96.07      | 32.02          | 7.91       | 32.57         | 100     | 271       | A         | V     |
|                                      |                                                                                             | 5374.42   | 50.58      | -23.42     | 74         | 42.62      | 32.24          | 8.29       | 32.57         | 100     | 271       | P         | V     |
|                                      |                                                                                             | 5350.22   | 41.71      | -12.29     | 54         | 33.83      | 32.22          | 8.23       | 32.57         | 100     | 271       | A         | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |            |               |         |           |           |       |

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10359                | 45.65               | -28.35                  | 74                          | 57.11                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             | 15540                | 48.14               | -25.86                  | 74                          | 55.53                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 10359                | 45.6                | -28.4                   | 74                          | 57.06                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             | 15540                | 50.28               | -23.72                  | 74                          | 57.67                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



&lt;Sample 4&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                   | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 1                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 5149.4    | 59.02      | -14.98     | 74         | 51.67      | 31.98          | 7.94       | 32.57         | 135     | 204       | P         | H       |
|                             |                                                                                             | 5148.5    | 48.22      | -5.78      | 54         | 40.87      | 31.98          | 7.94       | 32.57         | 135     | 204       | A         | H       |
|                             | *                                                                                           | 5182      | 107.18     | -          | -          | 99.82      | 32.02          | 7.91       | 32.57         | 135     | 204       | P         | H       |
|                             | *                                                                                           | 5182      | 101.03     | -          | -          | 93.67      | 32.02          | 7.91       | 32.57         | 135     | 204       | A         | H       |
|                             |                                                                                             | 5413.8    | 50.01      | -23.99     | 74         | 41.99      | 32.3           | 8.29       | 32.57         | 135     | 204       | P         | H       |
|                             |                                                                                             | 5379.59   | 41.07      | -12.93     | 54         | 33.09      | 32.26          | 8.29       | 32.57         | 135     | 204       | A         | H       |
|                             |                                                                                             | 5133.95   | 60.39      | -13.61     | 74         | 53.06      | 31.96          | 7.94       | 32.57         | 174     | 190       | P         | V       |
|                             |                                                                                             | 5150      | 51.5       | -2.5       | 54         | 44.15      | 31.98          | 7.94       | 32.57         | 174     | 190       | A         | V       |
|                             | *                                                                                           | 5179      | 110.21     | -          | -          | 102.85     | 32.02          | 7.91       | 32.57         | 174     | 190       | P         | V       |
|                             | *                                                                                           | 5179      | 104.26     | -          | -          | 96.9       | 32.02          | 7.91       | 32.57         | 174     | 190       | A         | V       |
|                             |                                                                                             | 5383.66   | 50.31      | -23.69     | 74         | 42.33      | 32.26          | 8.29       | 32.57         | 174     | 190       | P         | V       |
|                             |                                                                                             | 5457.8    | 41.41      | -12.59     | 54         | 33.35      | 32.34          | 8.29       | 32.57         | 174     | 190       | A         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |            |               |         |           |           |         |

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10359                | 46.67               | -27.33                  | 74                          | 58.13                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             | 15540                | 44.93               | -29.07                  | 74                          | 52.32                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 10359                | 47.28               | -26.72                  | 74                          | 58.74                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             | 15540                | 50.29               | -23.71                  | 74                          | 57.68                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



&lt;Sample 5 with Cradle&gt;

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                   | Note                                                                                        | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|---------|
| 1                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 5149.4    | 60.57      | -13.43     | 74         | 53.22      | 31.98          | 7.94       | 32.57         | 276     | 268       | P         | H       |
|                             |                                                                                             | 5150      | 51.22      | -2.78      | 54         | 43.87      | 31.98          | 7.94       | 32.57         | 276     | 268       | A         | H       |
|                             | *                                                                                           | 5182      | 111.03     | -          | -          | 103.67     | 32.02          | 7.91       | 32.57         | 276     | 268       | P         | H       |
|                             | *                                                                                           | 5182      | 104.36     | -          | -          | 97         | 32.02          | 7.91       | 32.57         | 276     | 268       | A         | H       |
|                             |                                                                                             | 5361.33   | 51         | -23        | 74         | 43.1       | 32.24          | 8.23       | 32.57         | 276     | 268       | P         | H       |
|                             |                                                                                             | 5350.66   | 43.13      | -10.87     | 54         | 35.25      | 32.22          | 8.23       | 32.57         | 276     | 268       | A         | H       |
|                             |                                                                                             | 5149.4    | 56.3       | -17.7      | 74         | 48.95      | 31.98          | 7.94       | 32.57         | 400     | 12        | P         | V       |
|                             |                                                                                             | 5150      | 47.7       | -6.3       | 54         | 40.35      | 31.98          | 7.94       | 32.57         | 400     | 12        | A         | V       |
|                             | *                                                                                           | 5182      | 108.87     | -          | -          | 101.51     | 32.02          | 7.91       | 32.57         | 400     | 12        | P         | V       |
|                             | *                                                                                           | 5182      | 101.49     | -          | -          | 94.13      | 32.02          | 7.91       | 32.57         | 400     | 12        | A         | V       |
|                             |                                                                                             | 5415.56   | 52.02      | -21.98     | 74         | 44         | 32.3           | 8.29       | 32.57         | 400     | 12        | P         | V       |
|                             |                                                                                             | 5411.82   | 42.47      | -11.53     | 54         | 34.45      | 32.3           | 8.29       | 32.57         | 400     | 12        | A         | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |            |            |            |                |            |               |         |           |           |         |

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| <b>802.11a<br/>CH 36<br/>5180MHz</b> |                                                                                             | 10359                | 46.29               | -27.71                  | 74                          | 57.75                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             | 15540                | 50.44               | -23.56                  | 74                          | 57.83                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                      |                                                                                             | 10359                | 45.29               | -28.71                  | 74                          | 56.75                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             | 15540                | 46.24               | -27.76                  | 74                          | 53.63                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                      |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



&lt;Sample 5&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant.                   | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|-----------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------------|---------|-----------|-----------|---------|
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )              | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 36<br>5180MHz |      | 5149.55   | 58.8       | -15.2      | 74         | 51.45      | 31.98          | 7.94       | 32.57               | 111     | 202       | P         | H       |
|                             |      | 5149.85   | 49.3       | -4.7       | 54         | 41.95      | 31.98          | 7.94       | 32.57               | 111     | 202       | A         | H       |
|                             | *    | 5178      | 108.72     | -          | -          | 101.36     | 32.02          | 7.91       | 32.57               | 111     | 202       | P         | H       |
|                             | *    | 5178      | 101.47     | -          | -          | 94.11      | 32.02          | 7.91       | 32.57               | 111     | 202       | A         | H       |
|                             |      | 5385.64   | 50.66      | -23.34     | 74         | 42.68      | 32.26          | 8.29       | 32.57               | 111     | 202       | P         | H       |
|                             |      | 5351.1    | 41.7       | -12.3      | 54         | 33.82      | 32.22          | 8.23       | 32.57               | 111     | 202       | A         | H       |
|                             |      | 5148.2    | 61.65      | -12.35     | 74         | 54.3       | 31.98          | 7.94       | 32.57               | 172     | 193       | P         | V       |
|                             |      | 5150      | 51.87      | -2.13      | 54         | 44.52      | 31.98          | 7.94       | 32.57               | 172     | 193       | A         | V       |
|                             | *    | 5180      | 110.63     | -          | -          | 103.27     | 32.02          | 7.91       | 32.57               | 172     | 193       | P         | V       |
|                             | *    | 5180      | 104.48     | -          | -          | 97.12      | 32.02          | 7.91       | 32.57               | 172     | 193       | A         | V       |
|                             |      | 5350.77   | 51.19      | -22.81     | 74         | 43.31      | 32.22          | 8.23       | 32.57               | 172     | 193       | P         | V       |
|                             |      | 5355.72   | 42.88      | -11.12     | 54         | 35         | 32.22          | 8.23       | 32.57               | 172     | 193       | A         | V       |
| 802.11a<br>CH 44<br>5220MHz |      | 5124.95   | 52.31      | -21.69     | 74         | 44.98      | 31.96          | 7.94       | 32.57               | 134     | 203       | P         | H       |
|                             |      | 5149.4    | 43.59      | -10.41     | 54         | 36.24      | 31.98          | 7.94       | 32.57               | 134     | 203       | A         | H       |
|                             | *    | 5220      | 108.15     | -          | -          | 100.65     | 32.06          | 8.01       | 32.57               | 134     | 203       | P         | H       |
|                             | *    | 5220      | 101.6      | -          | -          | 94.1       | 32.06          | 8.01       | 32.57               | 134     | 203       | A         | H       |
|                             |      | 5418.09   | 50.2       | -23.8      | 74         | 42.18      | 32.3           | 8.29       | 32.57               | 134     | 203       | P         | H       |
|                             |      | 5355.61   | 41.3       | -12.7      | 54         | 33.42      | 32.22          | 8.23       | 32.57               | 134     | 203       | A         | H       |
|                             |      | 5149.4    | 52.64      | -21.36     | 74         | 45.29      | 31.98          | 7.94       | 32.57               | 189     | 190       | P         | V       |
|                             |      | 5150      | 44.76      | -9.24      | 54         | 37.41      | 31.98          | 7.94       | 32.57               | 189     | 190       | A         | V       |
|                             | *    | 5222      | 110.39     | -          | -          | 102.89     | 32.06          | 8.01       | 32.57               | 189     | 190       | P         | V       |
|                             | *    | 5222      | 103.53     | -          | -          | 96.03      | 32.06          | 8.01       | 32.57               | 189     | 190       | A         | V       |
|                             |      | 5439.54   | 50.79      | -23.21     | 74         | 42.75      | 32.32          | 8.29       | 32.57               | 189     | 190       | P         | V       |
|                             |      | 5355.06   | 42.15      | -11.85     | 54         | 34.27      | 32.22          | 8.23       | 32.57               | 189     | 190       | A         | V       |



|                                                  |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5087.6  | 52.27  | -21.73 | 74 | 44.98  | 31.9  | 7.96 | 32.57 | 108 | 202 | P | H |
|                                                  |                                                                                             | 5148.2  | 42.75  | -11.25 | 54 | 35.4   | 31.98 | 7.94 | 32.57 | 108 | 202 | A | H |
|                                                  | *                                                                                           | 5238    | 108.05 | -      | -  | 100.53 | 32.08 | 8.01 | 32.57 | 107 | 202 | P | H |
|                                                  | *                                                                                           | 5238    | 100.67 | -      | -  | 93.15  | 32.08 | 8.01 | 32.57 | 107 | 202 | A | H |
|                                                  |                                                                                             | 5406.32 | 50.33  | -23.67 | 74 | 42.33  | 32.28 | 8.29 | 32.57 | 108 | 202 | P | H |
|                                                  |                                                                                             | 5354.84 | 41.22  | -12.78 | 54 | 33.34  | 32.22 | 8.23 | 32.57 | 108 | 202 | A | H |
|                                                  |                                                                                             | 5124.65 | 51.94  | -22.06 | 74 | 44.61  | 31.96 | 7.94 | 32.57 | 149 | 192 | P | V |
|                                                  |                                                                                             | 5148.2  | 43.7   | -10.3  | 54 | 36.35  | 31.98 | 7.94 | 32.57 | 149 | 192 | A | V |
|                                                  | *                                                                                           | 5238    | 109.73 | -      | -  | 102.21 | 32.08 | 8.01 | 32.57 | 149 | 192 | P | V |
|                                                  | *                                                                                           | 5238    | 103.38 | -      | -  | 95.86  | 32.08 | 8.01 | 32.57 | 149 | 192 | A | V |
|                                                  |                                                                                             | 5351.43 | 51.12  | -22.88 | 74 | 43.24  | 32.22 | 8.23 | 32.57 | 149 | 192 | P | V |
|                                                  |                                                                                             | 5359.46 | 43.26  | -10.74 | 54 | 35.38  | 32.22 | 8.23 | 32.57 | 149 | 192 | A | V |
| Remark                                           | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 36<br>5180MHz |                                                                                             | 10359                | 45.34               | -28.66                  | 74                          | 56.8                      | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15540                | 45.97               | -28.03                  | 74                          | 53.36                     | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10359                | 46.2                | -27.8                   | 74                          | 57.66                     | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15540                | 49.78               | -24.22                  | 74                          | 57.17                     | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 44<br>5220MHz |                                                                                             | 10440                | 46.63               | -27.37                  | 74                          | 57.86                     | 39.79                         | 12.03                   | 63.05                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15660                | 46.05               | -27.95                  | 74                          | 53.58                     | 37.85                         | 14.79                   | 60.17                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10440                | 46.56               | -27.44                  | 74                          | 57.79                     | 39.79                         | 12.03                   | 63.05                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15660                | 47.6                | -26.4                   | 74                          | 55.13                     | 37.85                         | 14.79                   | 60.17                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 48<br>5240MHz |                                                                                             | 10480                | 47.7                | -26.3                   | 74                          | 58.78                     | 39.87                         | 12.06                   | 63.01                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15720                | 44.27               | -29.73                  | 74                          | 51.88                     | 37.74                         | 14.81                   | 60.16                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10480                | 48.02               | -25.98                  | 74                          | 59.1                      | 39.87                         | 12.06                   | 63.01                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15720                | 48.48               | -25.52                  | 74                          | 56.09                     | 37.74                         | 14.81                   | 60.16                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5147.15              | 59.81               | -14.19                  | 74                          | 52.46                     | 31.98                         | 7.94                    | 32.57                      | 100                  | 204                     | P                       | H               |
|                                     |      | 5150                 | 49.32               | -4.68                   | 54                          | 41.97                     | 31.98                         | 7.94                    | 32.57                      | 100                  | 204                     | A                       | H               |
|                                     | *    | 5178                 | 108.16              | -                       | -                           | 100.8                     | 32.02                         | 7.91                    | 32.57                      | 100                  | 204                     | P                       | H               |
|                                     | *    | 5178                 | 101.12              | -                       | -                           | 93.76                     | 32.02                         | 7.91                    | 32.57                      | 100                  | 204                     | A                       | H               |
|                                     |      | 5452.74              | 50.36               | -23.64                  | 74                          | 42.3                      | 32.34                         | 8.29                    | 32.57                      | 100                  | 204                     | P                       | H               |
|                                     |      | 5350.88              | 41.19               | -12.81                  | 54                          | 33.31                     | 32.22                         | 8.23                    | 32.57                      | 100                  | 204                     | A                       | H               |
|                                     |      | 5149.55              | 62.69               | -11.31                  | 74                          | 55.34                     | 31.98                         | 7.94                    | 32.57                      | 148                  | 192                     | P                       | V               |
|                                     |      | 5148.8               | 51.44               | -2.56                   | 54                          | 44.09                     | 31.98                         | 7.94                    | 32.57                      | 148                  | 192                     | A                       | V               |
|                                     | *    | 5181                 | 108.84              | -                       | -                           | 101.48                    | 32.02                         | 7.91                    | 32.57                      | 148                  | 192                     | P                       | V               |
|                                     | *    | 5181                 | 103.49              | -                       | -                           | 96.13                     | 32.02                         | 7.91                    | 32.57                      | 148                  | 192                     | A                       | V               |
|                                     |      | 5356.16              | 50.35               | -23.65                  | 74                          | 42.47                     | 32.22                         | 8.23                    | 32.57                      | 148                  | 192                     | P                       | V               |
|                                     |      | 5350.11              | 42.32               | -11.68                  | 54                          | 34.44                     | 32.22                         | 8.23                    | 32.57                      | 148                  | 192                     | A                       | V               |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5003.75              | 52.96               | -21.04                  | 74                          | 45.69                     | 31.82                         | 8.02                    | 32.57                      | 134                  | 202                     | P                       | H               |
|                                     |      | 5147.6               | 43.71               | -10.29                  | 54                          | 36.36                     | 31.98                         | 7.94                    | 32.57                      | 134                  | 202                     | A                       | H               |
|                                     | *    | 5221                 | 107.91              | -                       | -                           | 100.41                    | 32.06                         | 8.01                    | 32.57                      | 134                  | 202                     | P                       | H               |
|                                     | *    | 5221                 | 101.58              | -                       | -                           | 94.08                     | 32.06                         | 8.01                    | 32.57                      | 134                  | 202                     | A                       | H               |
|                                     |      | 5438.99              | 51.02               | -22.98                  | 74                          | 42.98                     | 32.32                         | 8.29                    | 32.57                      | 134                  | 202                     | P                       | H               |
|                                     |      | 5412.26              | 41.66               | -12.34                  | 54                          | 33.64                     | 32.3                          | 8.29                    | 32.57                      | 134                  | 202                     | A                       | H               |
|                                     |      | 5052.95              | 55.25               | -18.75                  | 74                          | 47.97                     | 31.86                         | 7.99                    | 32.57                      | 177                  | 194                     | P                       | V               |
|                                     |      | 5147.6               | 45.12               | -8.88                   | 54                          | 37.77                     | 31.98                         | 7.94                    | 32.57                      | 177                  | 194                     | A                       | V               |
|                                     | *    | 5221                 | 110.72              | -                       | -                           | 103.22                    | 32.06                         | 8.01                    | 32.57                      | 177                  | 194                     | P                       | V               |
|                                     | *    | 5221                 | 103.91              | -                       | -                           | 96.41                     | 32.06                         | 8.01                    | 32.57                      | 177                  | 194                     | A                       | V               |
|                                     |      | 5394.99              | 51.21               | -22.79                  | 74                          | 43.21                     | 32.28                         | 8.29                    | 32.57                      | 177                  | 194                     | P                       | V               |
|                                     |      | 5354.84              | 42.85               | -11.15                  | 54                          | 34.97                     | 32.22                         | 8.23                    | 32.57                      | 177                  | 194                     | A                       | V               |



|                                                                 |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 48</b><br><b>5240MHz</b> |                                                                                             | 5054.75 | 51.88  | -22.12 | 74 | 44.58  | 31.88 | 7.99 | 32.57 | 100 | 207 | P | H |
|                                                                 |                                                                                             | 5135.6  | 42.87  | -11.13 | 54 | 35.54  | 31.96 | 7.94 | 32.57 | 100 | 207 | A | H |
|                                                                 | *                                                                                           | 5238    | 107.31 | -      | -  | 99.79  | 32.08 | 8.01 | 32.57 | 100 | 207 | P | H |
|                                                                 | *                                                                                           | 5238    | 101.13 | -      | -  | 93.61  | 32.08 | 8.01 | 32.57 | 100 | 207 | A | H |
|                                                                 |                                                                                             | 5396.86 | 50.79  | -23.21 | 74 | 42.79  | 32.28 | 8.29 | 32.57 | 100 | 207 | P | H |
|                                                                 |                                                                                             | 5354.4  | 41.47  | -12.53 | 54 | 33.59  | 32.22 | 8.23 | 32.57 | 100 | 207 | A | H |
|                                                                 |                                                                                             | 5029.1  | 52.98  | -21.02 | 74 | 45.69  | 31.84 | 8.02 | 32.57 | 173 | 194 | P | V |
|                                                                 |                                                                                             | 5148.8  | 44.26  | -9.74  | 54 | 36.91  | 31.98 | 7.94 | 32.57 | 173 | 194 | A | V |
|                                                                 | *                                                                                           | 5242    | 109.92 | -      | -  | 102.27 | 32.1  | 8.12 | 32.57 | 173 | 194 | P | V |
|                                                                 | *                                                                                           | 5242    | 103.7  | -      | -  | 96.05  | 32.1  | 8.12 | 32.57 | 173 | 194 | A | V |
|                                                                 |                                                                                             | 5366.39 | 50.45  | -23.55 | 74 | 42.49  | 32.24 | 8.29 | 32.57 | 173 | 194 | P | V |
|                                                                 |                                                                                             | 5359.68 | 43.05  | -10.95 | 54 | 35.17  | 32.22 | 8.23 | 32.57 | 173 | 194 | A | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |                                                                                             | 10360                | 46.83               | -27.17                  | 74                          | 58.29                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15540                | 45.03               | -28.97                  | 74                          | 52.42                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10360                | 47.43               | -26.57                  | 74                          | 58.89                   | 39.69                         | 11.96                   | 63.11                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15540                | 47.68               | -26.32                  | 74                          | 55.07                   | 38.04                         | 14.76                   | 60.19                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |                                                                                             | 10440                | 47.28               | -26.72                  | 74                          | 58.51                   | 39.79                         | 12.03                   | 63.05                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15660                | 46.44               | -27.56                  | 74                          | 53.97                   | 37.85                         | 14.79                   | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10440                | 47.22               | -26.78                  | 74                          | 58.45                   | 39.79                         | 12.03                   | 63.05                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15660                | 46.73               | -27.27                  | 74                          | 54.26                   | 37.85                         | 14.79                   | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |                                                                                             | 10480                | 45.96               | -28.04                  | 74                          | 57.04                   | 39.87                         | 12.06                   | 63.01                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             | 15720                | 44.56               | -29.44                  | 74                          | 52.17                   | 37.74                         | 14.81                   | 60.16                      | 100                  | 0                       | P                     | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | H             |
|                                     |                                                                                             | 10480                | 46.36               | -27.64                  | 74                          | 57.44                   | 39.87                         | 12.06                   | 63.01                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             | 15720                | 46.42               | -27.58                  | 74                          | 54.03                   | 37.74                         | 14.81                   | 60.16                      | 100                  | 0                       | P                     | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
|                                     |                                                                                             |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                         |                               |                         |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                           |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5050.4    | 51.88      | -22.12 | 74         | 44.6     | 31.86    | 7.99   | 32.57  | 109    | 200     | P       | H       |
|                             |      | 5137.55   | 42.61      | -11.39 | 54         | 35.28    | 31.96    | 7.94   | 32.57  | 109    | 200     | A       | H       |
|                             | *    | 5262      | 107.01     | -      | -          | 99.34    | 32.12    | 8.12   | 32.57  | 109    | 200     | P       | H       |
|                             | *    | 5262      | 100.32     | -      | -          | 92.65    | 32.12    | 8.12   | 32.57  | 109    | 200     | A       | H       |
|                             |      | 5367.27   | 50.6       | -23.4  | 74         | 42.64    | 32.24    | 8.29   | 32.57  | 109    | 200     | P       | H       |
|                             |      | 5353.08   | 41.36      | -12.64 | 54         | 33.48    | 32.22    | 8.23   | 32.57  | 109    | 200     | A       | H       |
|                             |      | 5087.6    | 54.01      | -19.99 | 74         | 46.72    | 31.9     | 7.96   | 32.57  | 185    | 189     | P       | V       |
|                             |      | 5149.55   | 43.47      | -10.53 | 54         | 36.12    | 31.98    | 7.94   | 32.57  | 185    | 189     | A       | V       |
|                             | *    | 5258      | 109.88     | -      | -          | 102.23   | 32.1     | 8.12   | 32.57  | 185    | 189     | P       | V       |
|                             | *    | 5258      | 103.55     | -      | -          | 95.9     | 32.1     | 8.12   | 32.57  | 185    | 189     | A       | V       |
|                             |      | 5359.68   | 50.81      | -23.19 | 74         | 42.93    | 32.22    | 8.23   | 32.57  | 185    | 189     | P       | V       |
|                             |      | 5350.33   | 42.88      | -11.12 | 54         | 35       | 32.22    | 8.23   | 32.57  | 185    | 189     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5098.1    | 50.67      | -23.33 | 74         | 43.36    | 31.92    | 7.96   | 32.57  | 100    | 210     | P       | H       |
|                             |      | 5098.7    | 42.33      | -11.67 | 54         | 35.02    | 31.92    | 7.96   | 32.57  | 100    | 210     | A       | H       |
|                             | *    | 5298      | 105.47     | -      | -          | 97.7     | 32.16    | 8.18   | 32.57  | 100    | 210     | P       | H       |
|                             | *    | 5298      | 98.95      | -      | -          | 91.18    | 32.16    | 8.18   | 32.57  | 100    | 210     | A       | H       |
|                             |      | 5453.73   | 51.18      | -22.82 | 74         | 43.12    | 32.34    | 8.29   | 32.57  | 100    | 210     | P       | H       |
|                             |      | 5353.96   | 41.31      | -12.69 | 54         | 33.43    | 32.22    | 8.23   | 32.57  | 100    | 210     | A       | H       |
|                             |      | 5130.05   | 51.27      | -22.73 | 74         | 43.94    | 31.96    | 7.94   | 32.57  | 189    | 190     | P       | V       |
|                             |      | 5102.9    | 42.45      | -11.55 | 54         | 35.14    | 31.92    | 7.96   | 32.57  | 189    | 190     | A       | V       |
|                             | *    | 5302      | 108.49     | -      | -          | 100.72   | 32.16    | 8.18   | 32.57  | 189    | 190     | P       | V       |
|                             | *    | 5302      | 102.52     | -      | -          | 94.75    | 32.16    | 8.18   | 32.57  | 189    | 190     | A       | V       |
|                             |      | 5355.06   | 50.78      | -23.22 | 74         | 42.9     | 32.22    | 8.23   | 32.57  | 189    | 190     | P       | V       |
|                             |      | 5350.22   | 41.82      | -12.18 | 54         | 33.94    | 32.22    | 8.23   | 32.57  | 189    | 190     | A       | V       |



|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|--------|-------|------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *                                                                                           | 5318    | 104.27 | -      | -  | 96.48  | 32.18 | 8.18 | 32.57 | 114 | 202 | P | H |
|                                      | *                                                                                           | 5318    | 99.01  | -      | -  | 91.22  | 32.18 | 8.18 | 32.57 | 114 | 202 | A | H |
|                                      |                                                                                             | 5353.3  | 54.13  | -19.87 | 74 | 46.25  | 32.22 | 8.23 | 32.57 | 114 | 202 | P | H |
|                                      |                                                                                             | 5350.33 | 45.32  | -8.68  | 54 | 37.44  | 32.22 | 8.23 | 32.57 | 114 | 202 | A | H |
|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | H |
|                                      | *                                                                                           | 5321    | 108.16 | -      | -  | 100.37 | 32.18 | 8.18 | 32.57 | 195 | 192 | P | V |
|                                      | *                                                                                           | 5321    | 102.18 | -      | -  | 94.39  | 32.18 | 8.18 | 32.57 | 195 | 192 | A | V |
|                                      |                                                                                             | 5351.87 | 57.83  | -16.17 | 74 | 49.95  | 32.22 | 8.23 | 32.57 | 195 | 192 | P | V |
|                                      |                                                                                             | 5350.44 | 48.38  | -5.62  | 54 | 40.5   | 32.22 | 8.23 | 32.57 | 195 | 192 | A | V |
|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |        |       |      |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |      |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1           | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 52<br>5260MHz |                                                                                             | 10520                | 46.57               | -27.43                  | 74                          | 57.57                     | 39.91                         | 12.08                   | 62.99                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15780                | 44.77               | -29.23                  | 74                          | 52.43                     | 37.66                         | 14.82                   | 60.14                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10520                | 46.5                | -27.5                   | 74                          | 57.5                      | 39.91                         | 12.08                   | 62.99                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15780                | 48.51               | -25.49                  | 74                          | 56.17                     | 37.66                         | 14.82                   | 60.14                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 60<br>5300MHz |                                                                                             | 10300                | 46.19               | -27.81                  | 74                          | 57.87                     | 39.58                         | 11.9                    | 63.16                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15300                | 45.73               | -28.27                  | 74                          | 51.95                     | 39.18                         | 14.59                   | 59.99                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10300                | 46.4                | -27.6                   | 74                          | 58.08                     | 39.58                         | 11.9                    | 63.16                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15300                | 46.28               | -27.72                  | 74                          | 52.5                      | 39.18                         | 14.59                   | 59.99                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.06               | -27.94                  | 74                          | 56.86                     | 40.01                         | 12.13                   | 62.94                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 15960                | 43.21               | -30.79                  | 74                          | 51.09                     | 37.36                         | 14.87                   | 60.11                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 10640                | 46.63               | -27.37                  | 74                          | 57.43                     | 40.01                         | 12.13                   | 62.94                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 15960                | 47.58               | -26.42                  | 74                          | 55.46                     | 37.36                         | 14.87                   | 60.11                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                   | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5050.55              | 53.13               | -20.87                  | 74                          | 45.85                     | 31.86                         | 7.99                    | 32.57                      | 129                  | 207                     | P                       | H               |
|                                     |      | 5146.1               | 43.09               | -10.91                  | 54                          | 35.74                     | 31.98                         | 7.94                    | 32.57                      | 129                  | 207                     | A                       | H               |
|                                     | *    | 5258                 | 105.93              | -                       | -                           | 98.28                     | 32.1                          | 8.12                    | 32.57                      | 129                  | 207                     | P                       | H               |
|                                     | *    | 5258                 | 100.11              | -                       | -                           | 92.46                     | 32.1                          | 8.12                    | 32.57                      | 129                  | 207                     | A                       | H               |
|                                     |      | 5404.01              | 49.79               | -24.21                  | 74                          | 41.79                     | 32.28                         | 8.29                    | 32.57                      | 129                  | 207                     | P                       | H               |
|                                     |      | 5351.87              | 41.65               | -12.35                  | 54                          | 33.77                     | 32.22                         | 8.23                    | 32.57                      | 129                  | 207                     | A                       | H               |
|                                     |      | 5134.7               | 53.38               | -20.62                  | 74                          | 46.05                     | 31.96                         | 7.94                    | 32.57                      | 154                  | 196                     | P                       | V               |
|                                     |      | 5139.05              | 43.85               | -10.15                  | 54                          | 36.52                     | 31.96                         | 7.94                    | 32.57                      | 154                  | 196                     | A                       | V               |
|                                     | *    | 5259                 | 109.27              | -                       | -                           | 101.6                     | 32.12                         | 8.12                    | 32.57                      | 154                  | 196                     | P                       | V               |
|                                     | *    | 5259                 | 102.93              | -                       | -                           | 95.26                     | 32.12                         | 8.12                    | 32.57                      | 154                  | 196                     | A                       | V               |
|                                     |      | 5385.97              | 50.56               | -23.44                  | 74                          | 42.58                     | 32.26                         | 8.29                    | 32.57                      | 154                  | 196                     | P                       | V               |
|                                     |      | 5379.7               | 43.41               | -10.59                  | 54                          | 35.43                     | 32.26                         | 8.29                    | 32.57                      | 154                  | 196                     | A                       | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5054.3               | 51.72               | -22.28                  | 74                          | 44.44                     | 31.86                         | 7.99                    | 32.57                      | 129                  | 202                     | P                       | H               |
|                                     |      | 5134.7               | 42.75               | -11.25                  | 54                          | 35.42                     | 31.96                         | 7.94                    | 32.57                      | 129                  | 202                     | A                       | H               |
|                                     | *    | 5302                 | 105.14              | -                       | -                           | 97.37                     | 32.16                         | 8.18                    | 32.57                      | 129                  | 202                     | P                       | H               |
|                                     | *    | 5302                 | 98.77               | -                       | -                           | 91                        | 32.16                         | 8.18                    | 32.57                      | 129                  | 202                     | A                       | H               |
|                                     |      | 5351.98              | 51.05               | -22.95                  | 74                          | 43.17                     | 32.22                         | 8.23                    | 32.57                      | 129                  | 202                     | P                       | H               |
|                                     |      | 5353.74              | 42.15               | -11.85                  | 54                          | 34.27                     | 32.22                         | 8.23                    | 32.57                      | 129                  | 202                     | A                       | H               |
|                                     |      | 5131.7               | 54.33               | -19.67                  | 74                          | 47                        | 31.96                         | 7.94                    | 32.57                      | 172                  | 192                     | P                       | V               |
|                                     |      | 5134.25              | 43.77               | -10.23                  | 54                          | 36.44                     | 31.96                         | 7.94                    | 32.57                      | 172                  | 192                     | A                       | V               |
|                                     | *    | 5298                 | 108.77              | -                       | -                           | 101                       | 32.16                         | 8.18                    | 32.57                      | 172                  | 192                     | P                       | V               |
|                                     | *    | 5298                 | 102.76              | -                       | -                           | 94.99                     | 32.16                         | 8.18                    | 32.57                      | 172                  | 192                     | A                       | V               |
|                                     |      | 5351.65              | 51.91               | -22.09                  | 74                          | 44.03                     | 32.22                         | 8.23                    | 32.57                      | 172                  | 192                     | P                       | V               |
|                                     |      | 5350.77              | 44.36               | -9.64                   | 54                          | 36.48                     | 32.22                         | 8.23                    | 32.57                      | 172                  | 192                     | A                       | V               |



|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT20</b><br><b>CH 64</b><br><b>5320MHz</b> | *                                                                                           | 5322    | 105.28 | -      | -  | 97.44 | 32.18 | 8.23 | 32.57 | 115 | 206 | P | H |
|                                                                 | *                                                                                           | 5322    | 98.59  | -      | -  | 90.75 | 32.18 | 8.23 | 32.57 | 115 | 206 | A | H |
|                                                                 |                                                                                             | 5357.37 | 52.73  | -21.27 | 74 | 44.85 | 32.22 | 8.23 | 32.57 | 115 | 206 | P | H |
|                                                                 |                                                                                             | 5350.88 | 45.88  | -8.12  | 54 | 38    | 32.22 | 8.23 | 32.57 | 115 | 206 | A | H |
|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                                 | *                                                                                           | 5322    | 107.59 | -      | -  | 99.75 | 32.18 | 8.23 | 32.57 | 159 | 197 | P | V |
|                                                                 | *                                                                                           | 5322    | 102.09 | -      | -  | 94.25 | 32.18 | 8.23 | 32.57 | 159 | 197 | A | V |
|                                                                 |                                                                                             | 5352.53 | 58.05  | -15.95 | 74 | 50.17 | 32.22 | 8.23 | 32.57 | 159 | 197 | P | V |
|                                                                 |                                                                                             | 5350    | 49.03  | -4.97  | 54 | 41.15 | 32.22 | 8.23 | 32.57 | 159 | 197 | A | V |
|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                                                 |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                   | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |                                                                                             | 10520                | 47.08               | -26.92                  | 74                          | 58.08                     | 39.91                         | 12.08                   | 62.99                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15780                | 44.08               | -29.92                  | 74                          | 51.74                     | 37.66                         | 14.82                   | 60.14                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10520                | 46.41               | -27.59                  | 74                          | 57.41                     | 39.91                         | 12.08                   | 62.99                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15780                | 48.05               | -25.95                  | 74                          | 55.71                     | 37.66                         | 14.82                   | 60.14                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |                                                                                             | 10600                | 46.49               | -27.51                  | 74                          | 57.36                     | 39.98                         | 12.11                   | 62.96                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15900                | 43.44               | -30.56                  | 74                          | 51.24                     | 37.47                         | 14.85                   | 60.12                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10600                | 46.69               | -27.31                  | 74                          | 57.56                     | 39.98                         | 12.11                   | 62.96                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15900                | 45.98               | -28.02                  | 74                          | 53.78                     | 37.47                         | 14.85                   | 60.12                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |                                                                                             | 10640                | 46.97               | -27.03                  | 74                          | 57.77                     | 40.01                         | 12.13                   | 62.94                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 15960                | 43.75               | -30.25                  | 74                          | 51.63                     | 37.36                         | 14.87                   | 60.11                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 10640                | 46.67               | -27.33                  | 74                          | 57.47                     | 40.01                         | 12.13                   | 62.94                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 15960                | 46.63               | -27.37                  | 74                          | 54.51                     | 37.36                         | 14.87                   | 60.11                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                         |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5467.6    | 52.85      | -21.15 | 74         | 44.77    | 32.36    | 8.29   | 32.57  | 152    | 215     | P       | H       |
|                              |      | 5468.56   | 44.89      | -9.11  | 54         | 36.81    | 32.36    | 8.29   | 32.57  | 152    | 215     | A       | H       |
|                              | *    | 5498      | 103.75     | -      | -          | 95.63    | 32.4     | 8.29   | 32.57  | 152    | 215     | P       | H       |
|                              | *    | 5498      | 97.54      | -      | -          | 89.42    | 32.4     | 8.29   | 32.57  | 152    | 215     | A       | H       |
|                              |      | 5760.44   | 51.97      | -22.03 | 74         | 43.75    | 32.56    | 8.33   | 32.67  | 152    | 215     | P       | H       |
|                              |      | 5750.44   | 41.7       | -12.3  | 54         | 33.5     | 32.54    | 8.33   | 32.67  | 152    | 215     | A       | H       |
|                              |      | 5469.84   | 55.09      | -18.91 | 74         | 47.01    | 32.36    | 8.29   | 32.57  | 262    | 204     | P       | V       |
|                              |      | 5470      | 46.15      | -7.85  | 54         | 38.07    | 32.36    | 8.29   | 32.57  | 262    | 204     | A       | V       |
|                              | *    | 5502      | 106.67     | -      | -          | 98.56    | 32.4     | 8.29   | 32.58  | 262    | 204     | P       | V       |
|                              | *    | 5502      | 100.19     | -      | -          | 92.08    | 32.4     | 8.29   | 32.58  | 262    | 204     | A       | V       |
|                              |      | 5730.52   | 50.98      | -23.02 | 74         | 42.79    | 32.53    | 8.33   | 32.67  | 262    | 204     | P       | V       |
|                              |      | 5757.88   | 41.59      | -12.41 | 54         | 33.37    | 32.56    | 8.33   | 32.67  | 262    | 204     | A       | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5369.52   | 50.38      | -23.62 | 74         | 42.42    | 32.24    | 8.29   | 32.57  | 159    | 212     | P       | H       |
|                              |      | 5467.28   | 41.03      | -12.97 | 54         | 32.95    | 32.36    | 8.29   | 32.57  | 159    | 212     | A       | H       |
|                              | *    | 5581      | 104        | -      | -          | 95.97    | 32.44    | 8.2    | 32.61  | 159    | 212     | P       | H       |
|                              | *    | 5581      | 98.16      | -      | -          | 90.13    | 32.44    | 8.2    | 32.61  | 159    | 212     | A       | H       |
|                              |      | 5755.56   | 50.51      | -23.49 | 74         | 42.29    | 32.56    | 8.33   | 32.67  | 159    | 212     | P       | H       |
|                              |      | 5743.8    | 41.68      | -12.32 | 54         | 33.48    | 32.54    | 8.33   | 32.67  | 159    | 212     | A       | H       |
|                              |      | 5423.12   | 49.62      | -24.38 | 74         | 41.6     | 32.3     | 8.29   | 32.57  | 159    | 204     | P       | V       |
|                              |      | 5356.56   | 41.22      | -12.78 | 54         | 33.34    | 32.22    | 8.23   | 32.57  | 159    | 204     | A       | V       |
|                              | *    | 5582      | 106.1      | -      | -          | 98.06    | 32.45    | 8.2    | 32.61  | 159    | 204     | P       | V       |
|                              | *    | 5582      | 99.13      | -      | -          | 91.09    | 32.45    | 8.2    | 32.61  | 159    | 204     | A       | V       |
|                              |      | 5732.76   | 50.52      | -23.48 | 74         | 42.33    | 32.53    | 8.33   | 32.67  | 159    | 204     | P       | V       |
|                              |      | 5754.28   | 41.63      | -12.37 | 54         | 33.41    | 32.56    | 8.33   | 32.67  | 159    | 204     | A       | V       |



|                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11a</b><br><b>CH 140</b><br><b>5700MHz</b> | *                                                                                           | 5698    | 105.72 | -      | -  | 97.56 | 32.51 | 8.3  | 32.65 | 118 | 208 | P | H |
|                                                   | *                                                                                           | 5698    | 99.69  | -      | -  | 91.53 | 32.51 | 8.3  | 32.65 | 118 | 208 | A | H |
|                                                   |                                                                                             | 5725.64 | 57.19  | -16.81 | 74 | 48.99 | 32.53 | 8.33 | 32.66 | 118 | 208 | P | H |
|                                                   |                                                                                             | 5725.32 | 48.27  | -5.73  | 54 | 40.07 | 32.53 | 8.33 | 32.66 | 118 | 208 | A | H |
|                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                   | *                                                                                           | 5702    | 105.74 | -      | -  | 97.57 | 32.52 | 8.3  | 32.65 | 139 | 149 | P | V |
|                                                   | *                                                                                           | 5702    | 99.84  | -      | -  | 91.67 | 32.52 | 8.3  | 32.65 | 139 | 149 | A | V |
|                                                   |                                                                                             | 5730.2  | 56.47  | -17.53 | 74 | 48.27 | 32.53 | 8.33 | 32.66 | 139 | 149 | P | V |
|                                                   |                                                                                             | 5725.24 | 49.02  | -4.98  | 54 | 40.82 | 32.53 | 8.33 | 32.66 | 139 | 149 | A | V |
|                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                                   |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                     | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 100<br>5500MHz |                                                                                             | 11000                | 46.79               | -27.21                  | 74                          | 56.99                     | 40.3                          | 12.3                    | 62.8                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16500                | 45.06               | -28.94                  | 74                          | 50.43                     | 38.8                          | 15.23                   | 59.4                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11000                | 46.74               | -27.26                  | 74                          | 56.94                     | 40.3                          | 12.3                    | 62.8                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16500                | 48.36               | -25.64                  | 74                          | 53.73                     | 38.8                          | 15.23                   | 59.4                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 116<br>5580MHz |                                                                                             | 11160                | 47.71               | -26.29                  | 74                          | 57.92                     | 40.2                          | 12.39                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 16740                | 49.77               | -24.23                  | 74                          | 54.59                     | 39.57                         | 15.3                    | 59.69                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11160                | 48.8                | -25.2                   | 74                          | 59.01                     | 40.2                          | 12.39                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 16740                | 51.7                | -22.3                   | 74                          | 56.52                     | 39.57                         | 15.3                    | 59.69                      | 352                  | 149                     | P                       | V               |
|                              |                                                                                             | 16740                | 45.29               | -8.71                   | 54                          | 50.11                     | 39.57                         | 15.3                    | 59.69                      | 352                  | 149                     | A                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 140<br>5700MHz |                                                                                             | 11400                | 47.29               | -26.71                  | 74                          | 57.5                      | 40.06                         | 12.53                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17100                | 53.41               | -20.59                  | 74                          | 57.31                     | 40.68                         | 15.48                   | 60.06                      | 312                  | 211                     | P                       | H               |
|                              |                                                                                             | 17100                | 45.32               | -8.68                   | 54                          | 49.22                     | 40.68                         | 15.48                   | 60.06                      | 312                  | 211                     | A                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11400                | 47                  | -27                     | 74                          | 57.21                     | 40.06                         | 12.53                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17100                | 52.65               | -21.35                  | 74                          | 56.55                     | 40.68                         | 15.48                   | 60.06                      | 100                  | 146                     | P                       | V               |
|                              |                                                                                             | 17100                | 44.48               | -9.52                   | 54                          | 48.38                     | 40.68                         | 15.48                   | 60.06                      | 100                  | 146                     | A                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5469.84              | 52.35               | -21.65                  | 74                          | 44.27                     | 32.36                         | 8.29                    | 32.57                      | 188                  | 216                     | P                       | H               |
|                                      |      | 5469.84              | 46.44               | -7.56                   | 54                          | 38.36                     | 32.36                         | 8.29                    | 32.57                      | 188                  | 216                     | A                       | H               |
|                                      | *    | 5499                 | 104.33              | -                       | -                           | 96.21                     | 32.4                          | 8.29                    | 32.57                      | 188                  | 216                     | P                       | H               |
|                                      | *    | 5499                 | 97.05               | -                       | -                           | 88.93                     | 32.4                          | 8.29                    | 32.57                      | 188                  | 216                     | A                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5470                 | 54.56               | -19.44                  | 74                          | 46.48                     | 32.36                         | 8.29                    | 32.57                      | 248                  | 205                     | P                       | V               |
|                                      |      | 5469.36              | 48.12               | -5.88                   | 54                          | 40.04                     | 32.36                         | 8.29                    | 32.57                      | 248                  | 205                     | A                       | V               |
|                                      | *    | 5501                 | 106.54              | -                       | -                           | 98.43                     | 32.4                          | 8.29                    | 32.58                      | 248                  | 205                     | P                       | V               |
|                                      | *    | 5501                 | 99.64               | -                       | -                           | 91.53                     | 32.4                          | 8.29                    | 32.58                      | 248                  | 205                     | A                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5463.76              | 50.19               | -23.81                  | 74                          | 42.11                     | 32.36                         | 8.29                    | 32.57                      | 100                  | 209                     | P                       | H               |
|                                      |      | 5356.4               | 41.34               | -12.66                  | 54                          | 33.46                     | 32.22                         | 8.23                    | 32.57                      | 100                  | 209                     | A                       | H               |
|                                      | *    | 5580                 | 105.18              | -                       | -                           | 97.15                     | 32.44                         | 8.2                     | 32.61                      | 100                  | 209                     | P                       | H               |
|                                      | *    | 5580                 | 96.58               | -                       | -                           | 88.55                     | 32.44                         | 8.2                     | 32.61                      | 100                  | 209                     | A                       | H               |
|                                      |      | 5760.84              | 50.73               | -23.27                  | 74                          | 42.51                     | 32.56                         | 8.33                    | 32.67                      | 100                  | 209                     | P                       | H               |
|                                      |      | 5725.88              | 41.79               | -12.21                  | 54                          | 33.59                     | 32.53                         | 8.33                    | 32.66                      | 100                  | 209                     | A                       | H               |
|                                      |      | 5451.44              | 50.15               | -23.85                  | 74                          | 42.09                     | 32.34                         | 8.29                    | 32.57                      | 246                  | 200                     | P                       | V               |
|                                      |      | 5353.52              | 41.84               | -12.16                  | 54                          | 33.96                     | 32.22                         | 8.23                    | 32.57                      | 246                  | 200                     | A                       | V               |
|                                      | *    | 5582                 | 106.3               | -                       | -                           | 98.26                     | 32.45                         | 8.2                     | 32.61                      | 246                  | 200                     | P                       | V               |
|                                      | *    | 5582                 | 99.06               | -                       | -                           | 91.02                     | 32.45                         | 8.2                     | 32.61                      | 246                  | 200                     | A                       | V               |
|                                      |      | 5726.12              | 51.03               | -22.97                  | 74                          | 42.83                     | 32.53                         | 8.33                    | 32.66                      | 246                  | 200                     | P                       | V               |
|                                      |      | 5732.76              | 41.91               | -12.09                  | 54                          | 33.72                     | 32.53                         | 8.33                    | 32.67                      | 246                  | 200                     | A                       | V               |



|                                                |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|------------------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 140<br/>5700MHz</b> | *                                                                                           | 5698    | 105.03 | -      | -  | 96.87 | 32.51 | 8.3  | 32.65 | 151 | 210 | P | H |
|                                                | *                                                                                           | 5698    | 98.57  | -      | -  | 90.41 | 32.51 | 8.3  | 32.65 | 151 | 210 | A | H |
|                                                |                                                                                             | 5725.16 | 56.27  | -17.73 | 74 | 48.07 | 32.53 | 8.33 | 32.66 | 151 | 210 | P | H |
|                                                |                                                                                             | 5725.32 | 47.41  | -6.59  | 54 | 39.21 | 32.53 | 8.33 | 32.66 | 151 | 210 | A | H |
|                                                |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                                | *                                                                                           | 5698    | 106.37 | -      | -  | 98.21 | 32.51 | 8.3  | 32.65 | 145 | 149 | P | V |
|                                                | *                                                                                           | 5698    | 98.89  | -      | -  | 90.73 | 32.51 | 8.3  | 32.65 | 145 | 149 | A | V |
|                                                |                                                                                             | 5730.2  | 58.48  | -15.52 | 74 | 50.28 | 32.53 | 8.33 | 32.66 | 145 | 149 | P | V |
|                                                |                                                                                             | 5725    | 47.86  | -6.14  | 54 | 39.66 | 32.53 | 8.33 | 32.66 | 145 | 149 | A | V |
|                                                |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                                |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |                                                                                             | 11000                | 47.35               | -26.65                  | 74                          | 57.55                     | 40.3                          | 12.3                    | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16500                | 46.25               | -27.75                  | 74                          | 51.62                     | 38.8                          | 15.23                   | 59.4                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11000                | 46.46               | -27.54                  | 74                          | 56.66                     | 40.3                          | 12.3                    | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16500                | 48.41               | -25.59                  | 74                          | 53.78                     | 38.8                          | 15.23                   | 59.4                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |                                                                                             | 11160                | 48.15               | -25.85                  | 74                          | 58.36                     | 40.2                          | 12.39                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 16740                | 50.28               | -23.72                  | 74                          | 55.1                      | 39.57                         | 15.3                    | 59.69                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11160                | 46.69               | -27.31                  | 74                          | 56.9                      | 40.2                          | 12.39                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 16740                | 45.02               | -28.98                  | 74                          | 49.84                     | 39.57                         | 15.3                    | 59.69                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |                                                                                             | 11400                | 46.57               | -27.43                  | 74                          | 56.78                     | 40.06                         | 12.53                   | 62.8                       | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17100                | 46.45               | -27.55                  | 74                          | 50.35                     | 40.68                         | 15.48                   | 60.06                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11400                | 47.01               | -26.99                  | 74                          | 57.22                     | 40.06                         | 12.53                   | 62.8                       | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17100                | 46.55               | -27.45                  | 74                          | 50.45                     | 40.68                         | 15.48                   | 60.06                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Emission below 1GHz

## WIFI 802.11a (LF @ 3m)

| WIFI          | Note                                                                       | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.          |                                                                            |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>LF |                                                                            | 31.62     | 23.33      | -16.67 | 40         | 36.58    | 18.92    | 0.65   | 32.82  | 105    | 163     | P       | H       |
|               |                                                                            | 120.72    | 15.28      | -28.22 | 43.5       | 34.88    | 11.91    | 1.14   | 32.65  |        |         | P       | H       |
|               |                                                                            | 269.49    | 19.26      | -26.74 | 46         | 36.73    | 13.5     | 1.76   | 32.73  |        |         | P       | H       |
|               |                                                                            | 414.8     | 20.2       | -25.8  | 46         | 34.14    | 16.75    | 2.16   | 32.85  |        |         | P       | H       |
|               |                                                                            | 769.7     | 23.5       | -22.5  | 46         | 31.64    | 21.8     | 2.97   | 32.91  |        |         | P       | H       |
|               |                                                                            | 964.3     | 26.7       | -27.3  | 54         | 30.78    | 24.24    | 3.29   | 31.61  |        |         | P       | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | H       |
|               |                                                                            | 31.35     | 18.9       | -21.1  | 40         | 31.61    | 19.46    | 0.65   | 32.82  | 100    | 219     | P       | V       |
|               |                                                                            | 54.57     | 18.7       | -21.3  | 40         | 42.58    | 7.96     | 0.93   | 32.77  |        |         | P       | V       |
|               |                                                                            | 269.49    | 16.37      | -29.63 | 46         | 33.84    | 13.5     | 1.76   | 32.73  |        |         | P       | V       |
|               |                                                                            | 454.7     | 18.57      | -27.43 | 46         | 31.76    | 17.39    | 2.3    | 32.88  |        |         | P       | V       |
|               |                                                                            | 661.9     | 21.25      | -24.75 | 46         | 31.3     | 20.29    | 2.67   | 33.01  |        |         | P       | V       |
|               |                                                                            | 969.2     | 26.73      | -27.27 | 54         | 30.68    | 24.22    | 3.38   | 31.55  |        |         | P       | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
|               |                                                                            |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark        | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1       |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**