



## Appendix A. Radiated Spurious Emission

|                 |                                    |                     |         |
|-----------------|------------------------------------|---------------------|---------|
| Test Engineer : | Kyle Jhuang, Citta Ke and Karl Hou | Temperature :       | 25~26°C |
|                 |                                    | Relative Humidity : | 50~51%  |

15E Band 1 - 5150~5250MHz

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 36<br>5180MHz |   | 5149.7    | 70.2       | -3.8   | 74         | 60.59    | 35.18    | 6.72   | 32.29  | 120    | 251     | P       | H       |   |
|                             |   | 5149.7    | 51.25      | -2.75  | 54         | 41.64    | 35.18    | 6.72   | 32.29  | 120    | 251     | A       | H       |   |
|                             | *   | 5178      | 111.74     | -      | -          | 102.07   | 35.22    | 6.73   | 32.28  | 120    | 251     | P       | H       |   |
|                             | *   | 5178      | 101.68     | -      | -          | 92.01    | 35.22    | 6.73   | 32.28  | 120    | 251     | A       | H       |   |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                             |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                             |   |           | 5148.95    | 60.38  | -13.62     | 74       | 50.77    | 35.18  | 6.72   | 32.29  | 100     | 187     | P       | V |
|                             |   |           | 5149.7     | 44.48  | -9.52      | 54       | 34.87    | 35.18  | 6.72   | 32.29  | 100     | 187     | A       | V |
|                             | *   |           | 5178       | 100.57 | -          | -        | 90.9     | 35.22  | 6.73   | 32.28  | 100     | 187     | P       | V |
|                             | *   |           | 5178       | 90.92  | -          | -        | 81.25    | 35.22  | 6.73   | 32.28  | 100     | 187     | A       | V |
|                             |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
|                             |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |   |



| 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 44<br>5220MHz |   | 5146.7    | 57.62      | -16.38 | 74         | 48.01    | 35.18    | 6.72   | 32.29  | 159    | 187     | P       | H       |
|                             |   | 5073.95   | 44.56      | -9.44  | 54         | 35.09    | 35.1     | 6.68   | 32.31  | 159    | 187     | A       | H       |
|                             | *   | 5222      | 111.82     | -      | -          | 102.07   | 35.26    | 6.76   | 32.27  | 159    | 187     | P       | H       |
|                             | *   | 5222      | 101.34     | -      | -          | 91.59    | 35.26    | 6.76   | 32.27  | 159    | 187     | A       | H       |
|                             |   | 5365.95   | 58.71      | -15.29 | 74         | 48.65    | 35.44    | 6.85   | 32.23  | 159    | 187     | P       | H       |
|                             |   | 5366.06   | 47.85      | -6.15  | 54         | 37.79    | 35.44    | 6.85   | 32.23  | 159    | 187     | A       | H       |
|                             |   | 5149.85   | 53.79      | -20.21 | 74         | 44.18    | 35.18    | 6.72   | 32.29  | 112    | 185     | P       | V       |
|                             |   | 5072      | 42.53      | -11.47 | 54         | 33.06    | 35.1     | 6.68   | 32.31  | 112    | 185     | A       | V       |
|                             | *   | 5218      | 102.4      | -      | -          | 92.65    | 35.26    | 6.76   | 32.27  | 112    | 185     | P       | V       |
|                             | *   | 5218      | 92.74      | -      | -          | 82.99    | 35.26    | 6.76   | 32.27  | 112    | 185     | A       | V       |
|                             |   | 5379.81   | 52.91      | -21.09 | 74         | 42.82    | 35.46    | 6.85   | 32.22  | 112    | 185     | P       | V       |
|                             |   | 5439.54   | 42.9       | -11.1  | 54         | 32.67    | 35.52    | 6.92   | 32.21  | 112    | 185     | A       | V       |
| 802.11a<br>CH 48<br>5240MHz |   | 5140.85   | 55.36      | -18.64 | 74         | 45.75    | 35.18    | 6.72   | 32.29  | 145    | 250     | P       | H       |
|                             |   | 5093.9    | 44.37      | -9.63  | 54         | 34.86    | 35.12    | 6.69   | 32.3   | 145    | 250     | A       | H       |
|                             | *   | 5238      | 113.26     | -      | -          | 103.47   | 35.28    | 6.77   | 32.26  | 145    | 250     | P       | H       |
|                             | *   | 5238      | 103.68     | -      | -          | 93.89    | 35.28    | 6.77   | 32.26  | 145    | 250     | A       | H       |
|                             |   | 5386.85   | 58.41      | -15.59 | 74         | 48.29    | 35.46    | 6.88   | 32.22  | 145    | 250     | P       | H       |
|                             |   | 5384.54   | 47.82      | -6.18  | 54         | 37.7     | 35.46    | 6.88   | 32.22  | 145    | 250     | A       | H       |
|                             |   | 5146.7    | 52.44      | -21.56 | 74         | 42.83    | 35.18    | 6.72   | 32.29  | 100    | 243     | P       | V       |
|                             |   | 5138.3    | 42.34      | -11.66 | 54         | 32.76    | 35.16    | 6.71   | 32.29  | 100    | 243     | A       | V       |
|                             | *   | 5238      | 101.86     | -      | -          | 92.07    | 35.28    | 6.77   | 32.26  | 100    | 243     | P       | V       |
|                             | *   | 5238      | 91.87      | -      | -          | 82.08    | 35.28    | 6.77   | 32.26  | 100    | 243     | A       | V       |
|                             |   | 5385.53   | 53.34      | -20.66 | 74         | 43.22    | 35.46    | 6.88   | 32.22  | 100    | 243     | P       | V       |
|                             | 5391.8  | 43.1      | -10.9      | 54     | 32.98      | 35.46    | 6.88     | 32.22  | 100    | 243    | A       | V       |         |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 1 5150~5250MHz  
WIFI 802.11a (Harmonic @ 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 36<br>5180MHz |   | 10360     | 51.41      | -22.59 | 74         | 60.59    | 38.2     | 9.8    | 57.18  | 100    | 11      | P       | H       |
|                             |   | 10360     | 40.84      | -13.16 | 54         | 50.02    | 38.2     | 9.8    | 57.18  | 100    | 11      | A       | H       |
|                             |   | 15540     | 53.59      | -20.41 | 74         | 59.41    | 40.64    | 11.81  | 58.27  | 100    | 113     | P       | H       |
|                             |   | 15540     | 42.55      | -11.45 | 54         | 48.37    | 40.64    | 11.81  | 58.27  | 100    | 113     | A       | H       |
|                             |   | 10360     | 52.43      | -21.57 | 74         | 61.61    | 38.2     | 9.8    | 57.18  | 100    | 22      | P       | V       |
|                             |   | 10360     | 41.4       | -12.6  | 54         | 50.58    | 38.2     | 9.8    | 57.18  | 100    | 22      | A       | V       |
|                             |   | 15542     | 54.17      | -19.83 | 74         | 59.99    | 40.64    | 11.81  | 58.27  | 200    | 237     | P       | V       |
|                             |   | 15542     | 42.01      | -11.99 | 54         | 47.83    | 40.64    | 11.81  | 58.27  | 200    | 237     | A       | V       |
| 802.11a<br>CH 44<br>5220MHz |   | 10442     | 53.03      | -20.97 | 74         | 62.15    | 38.2     | 9.82   | 57.14  | 100    | 18      | P       | H       |
|                             |   | 10442     | 42.46      | -11.54 | 54         | 51.58    | 38.2     | 9.82   | 57.14  | 100    | 18      | A       | H       |
|                             |   | 15658     | 54.9       | -19.1  | 74         | 60.49    | 40.79    | 11.8   | 58.18  | 117    | 224     | P       | H       |
|                             |   | 15658     | 40.85      | -13.15 | 54         | 46.44    | 40.79    | 11.8   | 58.18  | 117    | 224     | A       | H       |
|                             |   | 10442     | 54.84      | -19.16 | 74         | 63.96    | 38.2     | 9.82   | 57.14  | 113    | 239     | P       | V       |
|                             |   | 10442     | 44.63      | -9.37  | 54         | 53.75    | 38.2     | 9.82   | 57.14  | 113    | 239     | A       | V       |
|                             |   | 15660     | 54.82      | -19.18 | 74         | 60.41    | 40.79    | 11.8   | 58.18  | 100    | 236     | P       | V       |
|                             |   | 15660     | 44.49      | -9.51  | 54         | 50.08    | 40.79    | 11.8   | 58.18  | 100    | 236     | A       | V       |
| 802.11a<br>CH 48<br>5240MHz |   | 10482     | 53.2       | -20.8  | 74         | 62.27    | 38.2     | 9.84   | 57.11  | 100    | 38      | P       | H       |
|                             |   | 10482     | 42.59      | -11.41 | 54         | 51.66    | 38.2     | 9.84   | 57.11  | 100    | 38      | A       | H       |
|                             |   | 15720     | 54.45      | -19.55 | 74         | 59.9     | 40.87    | 11.8   | 58.12  | 116    | 219     | P       | H       |
|                             |   | 15720     | 44.36      | -9.64  | 54         | 49.81    | 40.87    | 11.8   | 58.12  | 116    | 219     | A       | H       |
|                             |   | 10480     | 53.89      | -20.11 | 74         | 62.96    | 38.2     | 9.84   | 57.11  | 100    | 81      | P       | V       |
|                             |   | 10480     | 42.72      | -11.28 | 54         | 51.79    | 38.2     | 9.84   | 57.11  | 100    | 81      | A       | V       |
|                             |   | 15722     | 54.69      | -19.31 | 74         | 60.14    | 40.87    | 11.8   | 58.12  | 106    | 241     | P       | V       |
|                             |   | 15722     | 44.14      | -9.86  | 54         | 49.59    | 40.87    | 11.8   | 58.12  | 106    | 241     | A       | V       |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E 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 |   | 5105.15   | 55.02      | -18.98 | 74         | 45.51    | 35.12    | 6.69   | 32.3   | 145    | 251     | P       | H       |
|                             |   | 5113.85   | 44.2       | -9.8   | 54         | 34.67    | 35.14    | 6.69   | 32.3   | 145    | 251     | A       | H       |
|                             | *   | 5262      | 114.14     | -      | -          | 104.29   | 35.32    | 6.79   | 32.26  | 145    | 251     | P       | H       |
|                             | *   | 5262      | 104        | -      | -          | 94.15    | 35.32    | 6.79   | 32.26  | 145    | 251     | A       | H       |
|                             |   | 5404.45   | 57.66      | -16.34 | 74         | 47.5     | 35.48    | 6.9    | 32.22  | 145    | 251     | P       | H       |
|                             |   | 5412.59   | 47         | -7     | 54         | 36.81    | 35.5     | 6.9    | 32.21  | 145    | 251     | A       | H       |
|                             |   | 5147.15   | 52.9       | -21.1  | 74         | 43.29    | 35.18    | 6.72   | 32.29  | 122    | 168     | P       | V       |
|                             |   | 5148.35   | 42.29      | -11.71 | 54         | 32.68    | 35.18    | 6.72   | 32.29  | 122    | 168     | A       | V       |
|                             | *   | 5258      | 104.79     | -      | -          | 94.98    | 35.3     | 6.77   | 32.26  | 122    | 168     | P       | V       |
|                             | *   | 5258      | 94.98      | -      | -          | 85.17    | 35.3     | 6.77   | 32.26  | 122    | 168     | A       | V       |
|                             |   | 5415.23   | 53.2       | -20.8  | 74         | 43.01    | 35.5     | 6.9    | 32.21  | 122    | 168     | P       | V       |
|                             |   | 5401.92   | 42.95      | -11.05 | 54         | 32.81    | 35.48    | 6.88   | 32.22  | 122    | 168     | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |   | 5149.7    | 54.45      | -19.55 | 74         | 44.84    | 35.18    | 6.72   | 32.29  | 144    | 247     | P       | H       |
|                             |   | 5148.05   | 44.23      | -9.77  | 54         | 34.62    | 35.18    | 6.72   | 32.29  | 144    | 247     | A       | H       |
|                             | *   | 5298      | 113.45     | -      | -          | 103.54   | 35.36    | 6.8    | 32.25  | 144    | 247     | P       | H       |
|                             | *   | 5298      | 103.57     | -      | -          | 93.66    | 35.36    | 6.8    | 32.25  | 144    | 247     | A       | H       |
|                             |   | 5351.76   | 64.5       | -9.5   | 74         | 54.48    | 35.42    | 6.83   | 32.23  | 144    | 247     | P       | H       |
|                             |   | 5350      | 50.23      | -3.77  | 54         | 40.21    | 35.42    | 6.83   | 32.23  | 144    | 247     | A       | H       |
|                             |   | 5144      | 52.6       | -21.4  | 74         | 42.99    | 35.18    | 6.72   | 32.29  | 100    | 244     | P       | V       |
|                             |   | 5147.15   | 42.41      | -11.59 | 54         | 32.8     | 35.18    | 6.72   | 32.29  | 100    | 244     | A       | V       |
|                             | *   | 5302      | 101.33     | -      | -          | 91.42    | 35.36    | 6.8    | 32.25  | 100    | 244     | P       | V       |
|                             | *   | 5302      | 91.33      | -      | -          | 81.42    | 35.36    | 6.8    | 32.25  | 100    | 244     | A       | V       |
|                             |   | 5355.17   | 53.55      | -20.45 | 74         | 43.53    | 35.42    | 6.83   | 32.23  | 100    | 244     | P       | V       |
|                             | 5350.11   | 43.37     | -10.63     | 54     | 33.35      | 35.42    | 6.83     | 32.23  | 100    | 244    | A       | V       |         |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



| 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 64<br>5320MHz | *   | 5322      | 111.8      | -      | -          | 101.85   | 35.38    | 6.81   | 32.24  | 156    | 252     | P       | H       |
|                             | *   | 5322      | 101.72     | -      | -          | 91.77    | 35.38    | 6.81   | 32.24  | 156    | 252     | A       | H       |
|                             |   | 5350.44   | 67.43      | -6.57  | 74         | 57.41    | 35.42    | 6.83   | 32.23  | 156    | 252     | P       | H       |
|                             |   | 5350      | 51.85      | -2.15  | 54         | 41.83    | 35.42    | 6.83   | 32.23  | 156    | 252     | A       | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             | *   | 5322      | 100.76     | -      | -          | 90.81    | 35.38    | 6.81   | 32.24  | 175    | 242     | P       | V       |
|                             | *   | 5322      | 90.54      | -      | -          | 80.59    | 35.38    | 6.81   | 32.24  | 175    | 242     | A       | V       |
|                             |   | 5351.54   | 55.92      | -18.08 | 74         | 45.9     | 35.42    | 6.83   | 32.23  | 175    | 242     | P       | V       |
|                             |   | 5350      | 44.46      | -9.54  | 54         | 34.44    | 35.42    | 6.83   | 32.23  | 175    | 242     | A       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| <b>Remark</b>               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 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 |   | 10520     | 52.82      | -21.18 | 74         | 61.85    | 38.21    | 9.86   | 57.1   | 100    | 17      | P       | H       |
|                             |   | 10520     | 41.66      | -12.34 | 54         | 50.69    | 38.21    | 9.86   | 57.1   | 100    | 17      | A       | H       |
|                             |   | 15782     | 54.27      | -19.73 | 74         | 59.59    | 40.95    | 11.8   | 58.07  | 102    | 231     | P       | H       |
|                             |   | 15782     | 43.15      | -10.85 | 54         | 48.47    | 40.95    | 11.8   | 58.07  | 102    | 231     | A       | H       |
|                             |   | 10520     | 56.62      | -17.38 | 74         | 65.65    | 38.21    | 9.86   | 57.1   | 100    | 240     | P       | V       |
|                             |   | 10520     | 43.85      | -10.15 | 54         | 52.88    | 38.21    | 9.86   | 57.1   | 100    | 240     | A       | V       |
|                             |   | 15782     | 53.92      | -20.08 | 74         | 59.24    | 40.95    | 11.8   | 58.07  | 100    | 28      | P       | V       |
|                             |   | 15782     | 43.86      | -10.14 | 54         | 49.18    | 40.95    | 11.8   | 58.07  | 100    | 28      | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |   | 10602     | 51.53      | -22.47 | 74         | 60.49    | 38.28    | 9.88   | 57.12  | 100    | 12      | P       | H       |
|                             |   | 10602     | 40.73      | -13.27 | 54         | 49.69    | 38.28    | 9.88   | 57.12  | 100    | 12      | A       | H       |
|                             |   | 15898     | 54.1       | -19.9  | 74         | 59.23    | 41.08    | 11.77  | 57.98  | 100    | 215     | P       | H       |
|                             |   | 15898     | 44.43      | -9.57  | 54         | 49.56    | 41.08    | 11.77  | 57.98  | 100    | 215     | A       | H       |
|                             |   | 10600     | 54.24      | -19.76 | 74         | 63.2     | 38.28    | 9.88   | 57.12  | 100    | 234     | P       | V       |
|                             |   | 10600     | 43.88      | -10.12 | 54         | 52.84    | 38.28    | 9.88   | 57.12  | 100    | 234     | A       | V       |
|                             |   | 15902     | 54.13      | -19.87 | 74         | 59.23    | 41.1     | 11.77  | 57.97  | 105    | 237     | P       | V       |
|                             |   | 15902     | 43.41      | -10.59 | 54         | 48.51    | 41.1     | 11.77  | 57.97  | 105    | 237     | A       | V       |
| 802.11a<br>CH 64<br>5320MHz |   | 10642     | 51.61      | -22.39 | 74         | 60.53    | 38.31    | 9.9    | 57.13  | 100    | 55      | P       | H       |
|                             |   | 10642     | 41.34      | -12.66 | 54         | 50.26    | 38.31    | 9.9    | 57.13  | 100    | 55      | A       | H       |
|                             |   | 15962     | 51.45      | -22.55 | 74         | 56.46    | 41.16    | 11.76  | 57.93  | 100    | 119     | P       | H       |
|                             |   | 15962     | 41.36      | -12.64 | 54         | 46.37    | 41.16    | 11.76  | 57.93  | 100    | 119     | A       | H       |
|                             |   | 10642     | 51.47      | -22.53 | 74         | 60.39    | 38.31    | 9.9    | 57.13  | 100    | 28      | P       | V       |
|                             |   | 10642     | 41.21      | -12.79 | 54         | 50.13    | 38.31    | 9.9    | 57.13  | 100    | 28      | A       | V       |
|                             |   | 15958     | 49.95      | -24.05 | 74         | 54.96    | 41.16    | 11.76  | 57.93  | 100    | 0       | P       | V       |
|                             |   |           |            |        |            |          |          |        |        |        |         |         |         |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E 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 |   | 5469.52   | 69.16      | -4.84  | 74         | 58.86    | 35.56    | 6.94   | 32.2   | 152    | 249     | P       | H       |   |
|                              |   | 5470      | 51.79      | -2.21  | 54         | 41.49    | 35.56    | 6.94   | 32.2   | 152    | 249     | A       | H       |   |
|                              | *   | 5498      | 109.99     | -      | -          | 99.62    | 35.6     | 6.96   | 32.19  | 152    | 249     | P       | H       |   |
|                              | *   | 5498      | 100.32     | -      | -          | 89.95    | 35.6     | 6.96   | 32.19  | 152    | 249     | A       | H       |   |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                              |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                              |   |           | 5468.72    | 66.15  | -7.85      | 74       | 55.85    | 35.56  | 6.94   | 32.2   | 127     | 193     | P       | V |
|                              |   |           | 5468.88    | 46.13  | -7.87      | 54       | 35.83    | 35.56  | 6.94   | 32.2   | 127     | 193     | A       | V |
|                              | *   |           | 5498       | 103.9  | -          | -        | 93.53    | 35.6   | 6.96   | 32.19  | 127     | 193     | P       | V |
|                              | *   |           | 5498       | 93.84  | -          | -        | 83.47    | 35.6   | 6.96   | 32.19  | 127     | 193     | A       | V |
|                              |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
|                              |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
| 802.11a<br>CH 116<br>5580MHz |   | 5373.04   | 56.64      | -17.36 | 74         | 46.58    | 35.44    | 6.85   | 32.23  | 125    | 203     | P       | H       |   |
|                              |   | 5373.2    | 48.36      | -5.64  | 54         | 38.3     | 35.44    | 6.85   | 32.23  | 125    | 203     | A       | H       |   |
|                              | *   | 5582      | 106.78     | -      | -          | 96.23    | 35.67    | 7.04   | 32.16  | 125    | 203     | P       | H       |   |
|                              | *   | 5582      | 96.81      | -      | -          | 86.26    | 35.67    | 7.04   | 32.16  | 125    | 203     | A       | H       |   |
|                              |   |           | 5729.16    | 53.33  | -20.67     | 74       | 42.51    | 35.78  | 7.16   | 32.12  | 125     | 203     | P       | H |
|                              |   |           | 5746.76    | 43.5   | -10.5      | 54       | 32.64    | 35.79  | 7.18   | 32.11  | 125     | 203     | A       | H |
|                              |   |           | 5415.44    | 53.03  | -20.97     | 74       | 42.84    | 35.5   | 6.9    | 32.21  | 113     | 199     | P       | V |
|                              |   |           | 5457.04    | 42.83  | -11.17     | 54       | 32.55    | 35.54  | 6.94   | 32.2   | 113     | 199     | A       | V |
|                              | *   |           | 5582       | 102.92 | -          | -        | 92.37    | 35.67  | 7.04   | 32.16  | 113     | 199     | P       | V |
|                              | *   |           | 5582       | 93.21  | -          | -        | 82.66    | 35.67  | 7.04   | 32.16  | 113     | 199     | A       | V |
|                              |   |           | 5733       | 53.71  | -20.29     | 74       | 42.89    | 35.78  | 7.16   | 32.12  | 113     | 199     | P       | V |
|                              |   |           | 5755.16    | 43.56  | -10.44     | 54       | 32.68    | 35.81  | 7.18   | 32.11  | 113     | 199     | A       | V |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |   |



| 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 )   | ( dB $\mu$ V/m ) | ( dB ) | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 140<br>5700MHz | *   | 5698      | 107.48           | -      | -                | 96.71          | 35.75    | 7.15   | 32.13  | 133    | 223     | P       | H       |
|                              | *   | 5698      | 97.45            | -      | -                | 86.68          | 35.75    | 7.15   | 32.13  | 133    | 223     | A       | H       |
|                              |   | 5725.8    | 69.52            | -4.48  | 74               | 58.7           | 35.78    | 7.16   | 32.12  | 133    | 223     | P       | H       |
|                              |   | 5725.16   | 51.19            | -2.81  | 54               | 40.37          | 35.78    | 7.16   | 32.12  | 133    | 223     | A       | H       |
|                              |   |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                              |   |           |                  |        |                  |                |          |        |        |        |         |         | H       |
|                              | *   | 5698      | 102.88           | -      | -                | 92.11          | 35.75    | 7.15   | 32.13  | 110    | 200     | P       | V       |
|                              | *   | 5698      | 92.59            | -      | -                | 81.82          | 35.75    | 7.15   | 32.13  | 110    | 200     | A       | V       |
|                              |   | 5725.64   | 65.8             | -8.2   | 74               | 54.98          | 35.78    | 7.16   | 32.12  | 110    | 200     | P       | V       |
|                              |   | 5725.4    | 47.61            | -6.39  | 54               | 36.79          | 35.78    | 7.16   | 32.12  | 110    | 200     | A       | V       |
|                              |   |           |                  |        |                  |                |          |        |        |        |         |         | V       |
|                              |   |           |                  |        |                  |                |          |        |        |        |         |         | V       |
| <b>Remark</b>                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |                  |        |                  |                |          |        |        |        |         |         |         |



15E band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 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 |   | 11002     | 53         | -21    | 74         | 61.52    | 38.6     | 10.08  | 57.2   | 100    | 35      | P       | H       |
|                              |   | 11002     | 42.94      | -11.06 | 54         | 51.46    | 38.6     | 10.08  | 57.2   | 100    | 35      | A       | H       |
|                              |   | 16500     | 50.96      | -23.04 | 74         | 54.48    | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   | 11002     | 56.47      | -17.53 | 74         | 64.99    | 38.6     | 10.08  | 57.2   | 104    | 192     | P       | V       |
|                              |   | 11002     | 47.8       | -6.2   | 54         | 56.32    | 38.6     | 10.08  | 57.2   | 104    | 192     | A       | V       |
|                              |   | 16502     | 52.32      | -21.68 | 74         | 55.84    | 41.4     | 12.18  | 57.1   | 100    | 164     | P       | V       |
|                              |   | 16502     | 42.24      | -11.76 | 54         | 45.76    | 41.4     | 12.18  | 57.1   | 100    | 164     | A       | V       |
| 802.11a<br>CH 116<br>5580MHz |   | 11160     | 51.01      | -22.99 | 74         | 59.23    | 38.73    | 10.15  | 57.1   | 100    | 28      | P       | H       |
|                              |   | 11160     | 41.13      | -12.87 | 54         | 49.35    | 38.73    | 10.15  | 57.1   | 100    | 28      | A       | H       |
|                              |   | 16738     | 51.28      | -22.72 | 74         | 54.32    | 41.74    | 12.32  | 57.1   | 100    | 117     | P       | H       |
|                              |   | 16738     | 41.35      | -12.65 | 54         | 44.39    | 41.74    | 12.32  | 57.1   | 100    | 117     | A       | H       |
|                              |   | 11158     | 59.85      | -14.15 | 74         | 68.07    | 38.73    | 10.15  | 57.1   | 104    | 194     | P       | V       |
|                              |   | 11158     | 48.49      | -5.51  | 54         | 56.71    | 38.73    | 10.15  | 57.1   | 104    | 194     | A       | V       |
|                              |   | 16740     | 50.85      | -23.15 | 74         | 53.89    | 41.74    | 12.32  | 57.1   | 100    | 0       | P       | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         |         |
| 802.11a<br>CH 140<br>5700MHz |   | 11402     | 53.35      | -20.65 | 74         | 61.11    | 38.92    | 10.28  | 56.96  | 100    | 38      | P       | H       |
|                              |   | 11402     | 43.37      | -10.63 | 54         | 51.13    | 38.92    | 10.28  | 56.96  | 100    | 38      | A       | H       |
|                              |   | 17100     | 47.35      | -26.65 | 74         | 50.17    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | H       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                              |   | 11402     | 59.78      | -14.22 | 74         | 67.54    | 38.92    | 10.28  | 56.96  | 100    | 203     | P       | V       |
|                              |   | 11402     | 48.23      | -5.77  | 54         | 55.99    | 38.92    | 10.28  | 56.96  | 100    | 203     | A       | V       |
|                              |   | 17100     | 48         | -26    | 74         | 50.82    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | V       |
|                              |   |           |            |        |            |          |          |        |        |        |         |         |         |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E 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 |  | 113.43    | 29.4       | -14.1  | 43.5       | 48.52    | 11.5     | 1.16   | 31.78  | -      | -       | P     | H     |   |
|               |  | 200.37    | 34.68      | -8.82  | 43.5       | 55.87    | 9.11     | 1.48   | 31.78  | 117    | 120     | P     | H     |   |
|               |  | 224.94    | 29.51      | -16.49 | 46         | 50.02    | 9.7      | 1.56   | 31.77  | -      | -       | P     | H     |   |
|               |  | 393.8     | 32.67      | -13.33 | 46         | 46.81    | 15.66    | 2      | 31.8   | -      | -       | P     | H     |   |
|               |  | 443.5     | 32.96      | -13.04 | 46         | 45.62    | 17.06    | 2.12   | 31.84  | -      | -       | P     | H     |   |
|               |  | 486.9     | 30.98      | -15.02 | 46         | 42.81    | 17.84    | 2.21   | 31.88  | -      | -       | P     | H     |   |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           |            |        |            |          |          |        |        |        |         |       |       | H |
|               |  |           | 67.53      | 31.14  | -8.86      | 40       | 55.78    | 6.24   | 0.91   | 31.79  | 107     | 215   | P     | V |
|               |  |           | 89.94      | 28.76  | -14.74     | 43.5     | 50.7     | 8.8    | 1.04   | 31.78  | -       | -     | P     | V |
|               |  |           | 200.37     | 28.71  | -14.79     | 43.5     | 49.9     | 9.11   | 1.48   | 31.78  | -       | -     | P     | V |
|               |  |           | 666.8      | 34.91  | -11.09     | 46       | 44.05    | 20.3   | 2.6    | 32.04  | -       | -     | P     | V |
|               |  |           | 734        | 32.81  | -13.19     | 46       | 40.07    | 22.02  | 2.72   | 32     | -       | -     | P     | V |
|               |  |           | 968.5      | 36.22  | -17.78     | 54       | 39.17    | 24.81  | 3.13   | 30.89  | -       | -     | P     | 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 per 15.209(c). |
| !   | 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       |

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

**For Peak Limit @ 2390MHz:**

- 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)
- Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

- 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)
- 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”.



15E band 1 5150~5250MHz

WIFI 802.11n HT20(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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 5148.95   | 62.78      | -11.22 | 74         | 53.17    | 35.18    | 6.72   | 32.29  | 126    | 176     | P       | H       |   |
|                                     |   | 5148.95   | 49.4       | -4.6   | 54         | 39.79    | 35.18    | 6.72   | 32.29  | 126    | 176     | A       | H       |   |
|                                     | *   | 5182      | 110.77     | -      | -          | 101.1    | 35.22    | 6.73   | 32.28  | 126    | 176     | P       | H       |   |
|                                     | *   | 5182      | 100.8      | -      | -          | 91.13    | 35.22    | 6.73   | 32.28  | 126    | 176     | A       | H       |   |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                     |   |           | 5149.7     | 57.06  | -16.94     | 74       | 47.45    | 35.18  | 6.72   | 32.29  | 100     | 118     | P       | V |
|                                     |   |           | 5149.4     | 43.9   | -10.1      | 54       | 34.29    | 35.18  | 6.72   | 32.29  | 100     | 118     | A       | V |
|                                     |   | *         | 5178       | 100.31 | -          | -        | 90.64    | 35.22  | 6.73   | 32.28  | 100     | 118     | P       | V |
|                                     |   | *         | 5178       | 89.93  | -          | -        | 80.26    | 35.22  | 6.73   | 32.28  | 100     | 118     | A       | V |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |   |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 5145.8    | 55.96      | -18.04 | 74         | 46.35    | 35.18    | 6.72   | 32.29  | 114    | 177     | P       | H       |   |
|                                     |   | 5002.4    | 45.84      | -8.16  | 54         | 36.53    | 35       | 6.64   | 32.33  | 114    | 177     | A       | H       |   |
|                                     |   | * 5222    | 110.48     | -      | -          | 100.73   | 35.26    | 6.76   | 32.27  | 114    | 177     | P       | H       |   |
|                                     |   | * 5222    | 101.09     | -      | -          | 91.34    | 35.26    | 6.76   | 32.27  | 114    | 177     | A       | H       |   |
|                                     |   |           | 5374.86    | 56.47  | -17.53     | 74       | 46.41    | 35.44  | 6.85   | 32.23  | 114     | 177     | P       | H |
|                                     |   |           | 5371.67    | 45.41  | -8.59      | 54       | 35.35    | 35.44  | 6.85   | 32.23  | 114     | 177     | A       | H |
|                                     |   |           | 5136.05    | 52.78  | -21.22     | 74       | 43.2     | 35.16  | 6.71   | 32.29  | 100     | 118     | P       | V |
|                                     |   |           | 5150       | 42.86  | -11.14     | 54       | 33.25    | 35.18  | 6.72   | 32.29  | 100     | 118     | A       | V |
|                                     |   | *         | 5218       | 99.15  | -          | -        | 89.4     | 35.26  | 6.76   | 32.27  | 100     | 118     | P       | V |
|                                     |   | *         | 5218       | 89.01  | -          | -        | 79.26    | 35.26  | 6.76   | 32.27  | 100     | 118     | A       | V |
|                                     |   | 5372      | 52.45      | -21.55 | 74         | 42.39    | 35.44    | 6.85   | 32.23  | 100    | 118     | P       | V       |   |
|                                     |   | 5370.79   | 43.1       | -10.9  | 54         | 33.04    | 35.44    | 6.85   | 32.23  | 100    | 118     | A       | V       |   |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |   |



| 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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5093.3    | 54.94      | -19.06 | 74         | 45.43    | 35.12    | 6.69   | 32.3   | 126    | 189     | P       | H       |
|                                     |   | 5149.85   | 44.45      | -9.55  | 54         | 34.84    | 35.18    | 6.72   | 32.29  | 126    | 189     | A       | H       |
|                                     | *   | 5242      | 111.35     | -      | -          | 101.54   | 35.3     | 6.77   | 32.26  | 126    | 189     | P       | H       |
|                                     | *   | 5242      | 100.93     | -      | -          | 91.12    | 35.3     | 6.77   | 32.26  | 126    | 189     | A       | H       |
|                                     |   | 5387.18   | 56.86      | -17.14 | 74         | 46.74    | 35.46    | 6.88   | 32.22  | 126    | 189     | P       | H       |
|                                     |   | 5386.52   | 46.27      | -7.73  | 54         | 36.15    | 35.46    | 6.88   | 32.22  | 126    | 189     | A       | H       |
|                                     |   | 5144.6    | 53.54      | -20.46 | 74         | 43.93    | 35.18    | 6.72   | 32.29  | 100    | 123     | P       | V       |
|                                     |   | 5147      | 42.77      | -11.23 | 54         | 33.16    | 35.18    | 6.72   | 32.29  | 100    | 123     | A       | V       |
|                                     | *   | 5238      | 98.69      | -      | -          | 88.9     | 35.28    | 6.77   | 32.26  | 100    | 123     | P       | V       |
|                                     | *   | 5238      | 88.65      | -      | -          | 78.86    | 35.28    | 6.77   | 32.26  | 100    | 123     | A       | V       |
|                                     |   | 5383.66   | 52.67      | -21.33 | 74         | 42.55    | 35.46    | 6.88   | 32.22  | 100    | 123     | P       | V       |
|                                     |   | 5386.85   | 43.14      | -10.86 | 54         | 33.02    | 35.46    | 6.88   | 32.22  | 100    | 123     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10362     | 50.17      | -23.83 | 74         | 59.35    | 38.2     | 9.8    | 57.18  | 100    | 0       | P       | H       |
|                                     |   | 15540     | 50.09      | -23.91 | 74         | 55.91    | 40.64    | 11.81  | 58.27  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10362     | 50.52      | -23.48 | 74         | 59.7     | 38.2     | 9.8    | 57.18  | 100    | 0       | P       | V       |
|                                     |   | 15538     | 50.06      | -23.94 | 74         | 55.88    | 40.64    | 11.81  | 58.27  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440     | 50.34      | -23.66 | 74         | 59.46    | 38.2     | 9.82   | 57.14  | 100    | 0       | P       | H       |
|                                     |   | 15660     | 49.22      | -24.78 | 74         | 54.81    | 40.79    | 11.8   | 58.18  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10442     | 49.94      | -24.06 | 74         | 59.06    | 38.2     | 9.82   | 57.14  | 100    | 0       | P       | V       |
|                                     |   | 15658     | 49.91      | -24.09 | 74         | 55.5     | 40.79    | 11.8   | 58.18  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480     | 49.85      | -24.15 | 74         | 58.92    | 38.2     | 9.84   | 57.11  | 100    | 0       | P       | H       |
|                                     |   | 15720     | 48.53      | -25.47 | 74         | 53.98    | 40.87    | 11.8   | 58.12  | 100    | 0       | P       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   | 10480     | 51.75      | -22.25 | 74         | 60.82    | 38.2     | 9.84   | 57.11  | 100    | 12      | P       | V       |
|                                     |   | 10480     | 41.15      | -12.85 | 54         | 50.22    | 38.2     | 9.84   | 57.11  | 100    | 12      | A       | V       |
|                                     |   | 15720     | 49.27      | -24.73 | 74         | 54.72    | 40.87    | 11.8   | 58.12  | 100    | 0       | P       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         | V       |         |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 1 5150~5250MHz

WIFI 802.11n HT40 (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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 5149.25   | 64.84      | -9.16  | 74         | 55.23    | 35.18    | 6.72   | 32.29  | 102    | 175     | P       | H       |
|                                     |   | 5150      | 51.02      | -2.98  | 54         | 41.41    | 35.18    | 6.72   | 32.29  | 102    | 175     | A       | H       |
|                                     | *   | 5188      | 105.44     | -      | -          | 95.77    | 35.22    | 6.73   | 32.28  | 102    | 175     | P       | H       |
|                                     | *   | 5188      | 95.26      | -      | -          | 85.59    | 35.22    | 6.73   | 32.28  | 102    | 175     | A       | H       |
|                                     |   | 5359.24   | 54.36      | -19.64 | 74         | 44.32    | 35.42    | 6.85   | 32.23  | 102    | 175     | P       | H       |
|                                     |   | 5355.83   | 43.98      | -10.02 | 54         | 33.96    | 35.42    | 6.83   | 32.23  | 102    | 175     | A       | H       |
|                                     |   | 5148.35   | 56.33      | -17.67 | 74         | 46.72    | 35.18    | 6.72   | 32.29  | 100    | 246     | P       | V       |
|                                     |   | 5149.1    | 44.21      | -9.79  | 54         | 34.6     | 35.18    | 6.72   | 32.29  | 100    | 246     | A       | V       |
|                                     | *   | 5192      | 94.32      | -      | -          | 84.6     | 35.24    | 6.75   | 32.27  | 100    | 246     | P       | V       |
|                                     | *   | 5192      | 84         | -      | -          | 74.28    | 35.24    | 6.75   | 32.27  | 100    | 246     | A       | V       |
|                                     |   | 5381.79   | 52.9       | -21.1  | 74         | 42.78    | 35.46    | 6.88   | 32.22  | 100    | 246     | P       | V       |
|                                     |   | 5444.6    | 42.89      | -11.11 | 54         | 32.66    | 35.52    | 6.92   | 32.21  | 100    | 246     | A       | V       |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 5148.65   | 55.83      | -18.17 | 74         | 46.22    | 35.18    | 6.72   | 32.29  | 113    | 160     | P       | H       |
|                                     |   | 5148.95   | 44.74      | -9.26  | 54         | 35.13    | 35.18    | 6.72   | 32.29  | 113    | 160     | A       | H       |
|                                     | *   | 5228      | 105.33     | -      | -          | 95.55    | 35.28    | 6.76   | 32.26  | 113    | 160     | P       | H       |
|                                     | *   | 5228      | 95.38      | -      | -          | 85.6     | 35.28    | 6.76   | 32.26  | 113    | 160     | A       | H       |
|                                     |   | 5376.29   | 54.35      | -19.65 | 74         | 44.29    | 35.44    | 6.85   | 32.23  | 113    | 160     | P       | H       |
|                                     |   | 5362.32   | 44.17      | -9.83  | 54         | 34.11    | 35.44    | 6.85   | 32.23  | 113    | 160     | A       | H       |
|                                     |   | 5020.4    | 52.31      | -21.69 | 74         | 42.97    | 35.02    | 6.65   | 32.33  | 100    | 119     | P       | V       |
|                                     |   | 5141.9    | 42.88      | -11.12 | 54         | 33.27    | 35.18    | 6.72   | 32.29  | 100    | 119     | A       | V       |
|                                     | *   | 5228      | 93.43      | -      | -          | 83.65    | 35.28    | 6.76   | 32.26  | 100    | 119     | P       | V       |
|                                     | *   | 5228      | 83.43      | -      | -          | 73.65    | 35.28    | 6.76   | 32.26  | 100    | 119     | A       | V       |
|                                     |   | 5375.96   | 53.12      | -20.88 | 74         | 43.06    | 35.44    | 6.85   | 32.23  | 100    | 119     | P       | V       |
|                                     |   | 5374.09   | 43         | -11    | 54         | 32.94    | 35.44    | 6.85   | 32.23  | 100    | 119     | A       | V       |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380     | 46.26      | -27.74 | 74         | 55.42    | 38.2     | 9.81   | 57.17  | 100    | 0       | P     | H     |
|                                     |   | 15570     | 45.67      | -28.33 | 74         | 51.42    | 40.68    | 11.81  | 58.24  | 100    | 0       | P     | H     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |   | 10380     | 46.95      | -27.05 | 74         | 56.11    | 38.2     | 9.81   | 57.17  | 100    | 0       | P     | V     |
|                                     |   | 15570     | 45.47      | -28.53 | 74         | 51.22    | 40.68    | 11.81  | 58.24  | 100    | 0       | P     | V     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460     | 44.78      | -29.22 | 74         | 53.88    | 38.2     | 9.83   | 57.13  | 100    | 0       | P     | H     |
|                                     |   | 15690     | 45.61      | -28.39 | 74         | 51.13    | 40.83    | 11.8   | 58.15  | 100    | 0       | P     | H     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                     |   | 10460     | 44.57      | -29.43 | 74         | 53.67    | 38.2     | 9.83   | 57.13  | 100    | 0       | P     | V     |
|                                     |   | 15690     | 44.39      | -29.61 | 74         | 49.91    | 40.83    | 11.8   | 58.15  | 100    | 0       | P     | V     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | V     |
|                                     |   |           |            |        |            |          |          |        |        |        |         |       | V     |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |       |       |



15E band 2 5250~5350MHz

WIFI 802.11n HT20 (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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 5150      | 54.54      | -19.46 | 74         | 44.93    | 35.18    | 6.72   | 32.29  | 100    | 177     | P       | H       |
|                                     |   | 5040.8    | 45.56      | -8.44  | 54         | 36.17    | 35.06    | 6.65   | 32.32  | 100    | 177     | A       | H       |
|                                     | *   | 5258      | 111.25     | -      | -          | 101.44   | 35.3     | 6.77   | 32.26  | 100    | 177     | P       | H       |
|                                     | *   | 5258      | 100.93     | -      | -          | 91.12    | 35.3     | 6.77   | 32.26  | 100    | 177     | A       | H       |
|                                     |   | 5402.36   | 56.24      | -17.76 | 74         | 46.1     | 35.48    | 6.88   | 32.22  | 100    | 177     | P       | H       |
|                                     |   | 5413.14   | 45.29      | -8.71  | 54         | 35.1     | 35.5     | 6.9    | 32.21  | 100    | 177     | A       | H       |
|                                     |   | 5113.25   | 52.96      | -21.04 | 74         | 43.43    | 35.14    | 6.69   | 32.3   | 100    | 245     | P       | V       |
|                                     |   | 5115.8    | 42.51      | -11.49 | 54         | 32.98    | 35.14    | 6.69   | 32.3   | 100    | 245     | A       | V       |
|                                     | *   | 5262      | 98.59      | -      | -          | 88.74    | 35.32    | 6.79   | 32.26  | 100    | 245     | P       | V       |
|                                     | *   | 5262      | 88.27      | -      | -          | 78.42    | 35.32    | 6.79   | 32.26  | 100    | 245     | A       | V       |
|                                     |   | 5412.04   | 52.97      | -21.03 | 74         | 42.78    | 35.5     | 6.9    | 32.21  | 100    | 245     | P       | V       |
|                                     |   | 5425.24   | 42.87      | -11.13 | 54         | 32.68    | 35.5     | 6.9    | 32.21  | 100    | 245     | A       | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 5148.05   | 56.7       | -17.3  | 74         | 47.09    | 35.18    | 6.72   | 32.29  | 100    | 177     | P       | H       |
|                                     |   | 5079.05   | 45.26      | -8.74  | 54         | 35.79    | 35.1     | 6.68   | 32.31  | 100    | 177     | A       | H       |
|                                     | *   | 5298      | 110.57     | -      | -          | 100.66   | 35.36    | 6.8    | 32.25  | 100    | 177     | P       | H       |
|                                     | *   | 5298      | 100.86     | -      | -          | 90.95    | 35.36    | 6.8    | 32.25  | 100    | 177     | A       | H       |
|                                     |   | 5350.77   | 58.36      | -15.64 | 74         | 48.34    | 35.42    | 6.83   | 32.23  | 100    | 177     | P       | H       |
|                                     |   | 5350.11   | 46.8       | -7.2   | 54         | 36.78    | 35.42    | 6.83   | 32.23  | 100    | 177     | A       | H       |
|                                     |   | 5051.6    | 52.29      | -21.71 | 74         | 42.88    | 35.06    | 6.67   | 32.32  | 115    | 173     | P       | V       |
|                                     |   | 5079.35   | 42.76      | -11.24 | 54         | 33.29    | 35.1     | 6.68   | 32.31  | 115    | 173     | A       | V       |
|                                     | *   | 5298      | 104.49     | -      | -          | 94.58    | 35.36    | 6.8    | 32.25  | 115    | 173     | P       | V       |
|                                     | *   | 5298      | 94.19      | -      | -          | 84.28    | 35.36    | 6.8    | 32.25  | 115    | 173     | A       | V       |
|                                     | 5353.74   | 55        | -19        | 74     | 44.98      | 35.42    | 6.83     | 32.23  | 115    | 173    | P       | V       |         |
|                                     | 5356.05   | 44.58     | -9.42      | 54     | 34.54      | 35.42    | 6.85     | 32.23  | 115    | 173    | A       | V       |         |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



| 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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5322      | 111.64     | -      | -          | 101.69   | 35.38    | 6.81   | 32.24  | 147    | 177     | P       | H       |
|                                     | *   | 5322      | 101.41     | -      | -          | 91.46    | 35.38    | 6.81   | 32.24  | 147    | 177     | A       | H       |
|                                     |   | 5350.44   | 65.92      | -8.08  | 74         | 55.9     | 35.42    | 6.83   | 32.23  | 147    | 177     | P       | H       |
|                                     |   | 5351.1    | 51.03      | -2.97  | 54         | 41.01    | 35.42    | 6.83   | 32.23  | 147    | 177     | A       | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     | *   | 5318      | 105.3      | -      | -          | 95.35    | 35.38    | 6.81   | 32.24  | 103    | 177     | P       | V       |
|                                     | *   | 5318      | 94.17      | -      | -          | 84.22    | 35.38    | 6.81   | 32.24  | 103    | 177     | A       | V       |
|                                     |   | 5350.88   | 61.94      | -12.06 | 74         | 51.92    | 35.42    | 6.83   | 32.23  | 103    | 177     | P       | V       |
|                                     |   | 5350      | 46.81      | -7.19  | 54         | 36.79    | 35.42    | 6.83   | 32.23  | 103    | 177     | A       | V       |
|                                     |   |           |            |        |            |          |          |        |        |        |         | V       |         |
|                                     |   |           |            |        |            |          |          |        |        |        |         | V       |         |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 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+2                                 |  | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 52<br>5260MHz |  | 10522     | 49.53      | -24.47 | 74         | 58.56    | 38.21    | 9.86   | 57.1   | 100    | 0       | P       | H       |
|                                     |  | 15780     | 49.06      | -24.94 | 74         | 54.41    | 40.93    | 11.8   | 58.08  | 100    | 0       | P       | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  | 10518     | 50.55      | -23.45 | 74         | 59.58    | 38.21    | 9.86   | 57.1   | 100    | 0       | P       | V       |
|                                     |  | 15782     | 48.42      | -25.58 | 74         | 53.74    | 40.95    | 11.8   | 58.07  | 100    | 0       | P       | V       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |  | 10600     | 50.43      | -23.57 | 74         | 59.39    | 38.28    | 9.88   | 57.12  | 100    | 0       | P       | H       |
|                                     |  | 15902     | 49.48      | -24.52 | 74         | 54.58    | 41.1     | 11.77  | 57.97  | 100    | 0       | P       | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  | 10600     | 53.16      | -20.84 | 74         | 62.12    | 38.28    | 9.88   | 57.12  | 100    | 125     | P       | V       |
|                                     |  | 10600     | 43.07      | -10.93 | 54         | 52.03    | 38.28    | 9.88   | 57.12  | 100    | 125     | A       | V       |
|                                     |  | 15898     | 49.63      | -24.37 | 74         | 54.76    | 41.08    | 11.77  | 57.98  | 100    | 0       | P       | V       |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |  | 10642     | 50.04      | -23.96 | 74         | 58.96    | 38.31    | 9.9    | 57.13  | 100    | 0       | P       | H       |
|                                     |  | 15960     | 48.11      | -25.89 | 74         | 53.12    | 41.16    | 11.76  | 57.93  | 100    | 0       | P       | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  | 10638     | 50.44      | -23.56 | 74         | 59.36    | 38.31    | 9.9    | 57.13  | 100    | 0       | P       | V       |
|                                     |  | 15960     | 46.45      | -27.55 | 74         | 51.46    | 41.16    | 11.76  | 57.93  | 100    | 0       | P       | V       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.                                  |           |            |        |            |          |          |        |        |        |         |         |         |
|                                     | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 2 5250~5350MHz

WIFI 802.11n HT40 (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+2                                 |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 5106.2    | 54.79      | -19.21 | 74         | 45.26    | 35.14    | 6.69   | 32.3   | 100    | 175     | P       | H       |
|                                     |   | 5150      | 44.09      | -9.91  | 54         | 34.48    | 35.18    | 6.72   | 32.29  | 100    | 175     | A       | H       |
|                                     | *   | 5268      | 107        | -      | -          | 97.15    | 35.32    | 6.79   | 32.26  | 100    | 175     | P       | H       |
|                                     | *   | 5268      | 95.7       | -      | -          | 85.85    | 35.32    | 6.79   | 32.26  | 100    | 175     | A       | H       |
|                                     |   | 5354.62   | 57.02      | -16.98 | 74         | 47       | 35.42    | 6.83   | 32.23  | 100    | 175     | P       | H       |
|                                     |   | 5363.86   | 46.07      | -7.93  | 54         | 36.01    | 35.44    | 6.85   | 32.23  | 100    | 175     | A       | H       |
|                                     |   | 5016.2    | 52.15      | -21.85 | 74         | 42.82    | 35.02    | 6.64   | 32.33  | 104    | 166     | P       | V       |
|                                     |   | 5132.75   | 42.5       | -11.5  | 54         | 32.92    | 35.16    | 6.71   | 32.29  | 104    | 166     | A       | V       |
|                                     | *   | 5268      | 96.06      | -      | -          | 86.21    | 35.32    | 6.79   | 32.26  | 104    | 166     | P       | V       |
|                                     | *   | 5268      | 85.83      | -      | -          | 75.98    | 35.32    | 6.79   | 32.26  | 104    | 166     | A       | V       |
|                                     |   | 5425.9    | 53.93      | -20.07 | 74         | 43.74    | 35.5     | 6.9    | 32.21  | 104    | 166     | P       | V       |
|                                     |   | 5415.67   | 43.4       | -10.6  | 54         | 33.21    | 35.5     | 6.9    | 32.21  | 104    | 166     | A       | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 5144.45   | 54.48      | -19.52 | 74         | 44.87    | 35.18    | 6.72   | 32.29  | 100    | 174     | P       | H       |
|                                     |   | 5147.45   | 44.11      | -9.89  | 54         | 34.5     | 35.18    | 6.72   | 32.29  | 100    | 174     | A       | H       |
|                                     | *   | 5308      | 106.49     | -      | -          | 96.57    | 35.36    | 6.81   | 32.25  | 100    | 174     | P       | H       |
|                                     | *   | 5308      | 96.02      | -      | -          | 86.1     | 35.36    | 6.81   | 32.25  | 100    | 174     | A       | H       |
|                                     |   | 5364.19   | 66.89      | -7.11  | 74         | 56.83    | 35.44    | 6.85   | 32.23  | 100    | 174     | P       | H       |
|                                     |   | 5350      | 51.86      | -2.14  | 54         | 41.84    | 35.42    | 6.83   | 32.23  | 100    | 174     | A       | H       |
|                                     |   | 5077.25   | 52.06      | -21.94 | 74         | 42.59    | 35.1     | 6.68   | 32.31  | 102    | 171     | P       | V       |
|                                     |   | 5123.3    | 42.35      | -11.65 | 54         | 32.77    | 35.16    | 6.71   | 32.29  | 102    | 171     | A       | V       |
|                                     | *   | 5312      | 99.32      | -      | -          | 89.37    | 35.38    | 6.81   | 32.24  | 102    | 171     | P       | V       |
|                                     | *   | 5312      | 89.13      | -      | -          | 79.18    | 35.38    | 6.81   | 32.24  | 102    | 171     | A       | V       |
|                                     | 5354.73   | 63.26     | -10.74     | 74     | 53.24      | 35.42    | 6.83     | 32.23  | 102    | 171    | P       | V       |         |
|                                     | 5350.33   | 47.52     | -6.48      | 54     | 37.5       | 35.42    | 6.83     | 32.23  | 102    | 171    | A       | V       |         |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 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+2                                 |  | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>CH 54<br>5270MHz |  | 10540     | 44.95      | -29.05 | 74         | 53.97    | 38.23    | 9.86   | 57.11  | 100    | 0       | P       | H       |
|                                     |  | 15810     | 44.4       | -29.6  | 74         | 49.68    | 40.97    | 11.8   | 58.05  | 100    | 0       | P       | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  | 10540     | 45.77      | -28.23 | 74         | 54.79    | 38.23    | 9.86   | 57.11  | 100    | 0       | P       | V       |
|                                     |  | 15810     | 45.74      | -28.26 | 74         | 51.02    | 40.97    | 11.8   | 58.05  | 100    | 0       | P       | V       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |  | 10620     | 45.33      | -28.67 | 74         | 54.26    | 38.3     | 9.89   | 57.12  | 100    | 0       | P       | H       |
|                                     |  | 15930     | 44.6       | -29.4  | 74         | 49.68    | 41.12    | 11.76  | 57.96  | 100    | 0       | P       | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                     |  | 10620     | 45.02      | -28.98 | 74         | 53.95    | 38.3     | 9.89   | 57.12  | 100    | 0       | P       | V       |
|                                     |  | 15930     | 46.32      | -27.68 | 74         | 51.4     | 41.12    | 11.76  | 57.96  | 100    | 0       | P       | V       |
|                                     |  |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                              | 1. No other spurious found.                                  |           |            |        |            |          |          |        |        |        |         |         |         |
|                                     | 2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 3 - 5470~5725MHz

WIFI 802.11n HT20 (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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 5469.84   | 66.14      | -7.86  | 74         | 55.84    | 35.56    | 6.94   | 32.2   | 136    | 109     | P       | H       |   |
|                                      |   | 5469.84   | 51.6       | -2.4   | 54         | 41.3     | 35.56    | 6.94   | 32.2   | 136    | 109     | A       | H       |   |
|                                      | *   | 5502      | 112.12     | -      | -          | 101.73   | 35.6     | 6.98   | 32.19  | 136    | 109     | P       | H       |   |
|                                      | *   | 5502      | 100.6      | -      | -          | 90.21    | 35.6     | 6.98   | 32.19  | 136    | 109     | A       | H       |   |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |   |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                                      |   |           | 5466.16    | 58.32  | -15.68     | 74       | 48.02    | 35.56  | 6.94   | 32.2   | 123     | 181     | P       | V |
|                                      |   |           | 5470       | 46.36  | -7.64      | 54       | 36.06    | 35.56  | 6.94   | 32.2   | 123     | 181     | A       | V |
|                                      | *   |           | 5499       | 102.98 | -          | -        | 92.61    | 35.6   | 6.96   | 32.19  | 123     | 181     | P       | V |
|                                      | *   |           | 5499       | 93.89  | -          | -        | 83.52    | 35.6   | 6.96   | 32.19  | 123     | 181     | A       | V |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         |         | V |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 5373.68   | 55.96      | -18.04 | 74         | 45.9     | 35.44    | 6.85   | 32.23  | 134    | 223     | P       | H       |   |
|                                      |   | 5373.2    | 46.58      | -7.42  | 54         | 36.52    | 35.44    | 6.85   | 32.23  | 134    | 223     | A       | H       |   |
|                                      | *   | 5578      | 109.71     | -      | -          | 99.18    | 35.66    | 7.04   | 32.17  | 134    | 223     | P       | H       |   |
|                                      | *   | 5578      | 99.83      | -      | -          | 89.3     | 35.66    | 7.04   | 32.17  | 134    | 223     | A       | H       |   |
|                                      |   |           | 5735.4     | 55.06  | -18.94     | 74       | 44.22    | 35.79  | 7.16   | 32.11  | 134     | 223     | P       | H |
|                                      |   |           | 5735       | 44.5   | -9.5       | 54       | 33.66    | 35.79  | 7.16   | 32.11  | 134     | 223     | A       | H |
|                                      |   |           | 5353.52    | 53.03  | -20.97     | 74       | 43.01    | 35.42  | 6.83   | 32.23  | 119     | 202     | P       | V |
|                                      |   |           | 5373.36    | 43.02  | -10.98     | 54       | 32.96    | 35.44  | 6.85   | 32.23  | 119     | 202     | A       | V |
|                                      | *   |           | 5582       | 105.18 | -          | -        | 94.63    | 35.67  | 7.04   | 32.16  | 119     | 202     | P       | V |
|                                      | *   |           | 5582       | 94.43  | -          | -        | 83.88    | 35.67  | 7.04   | 32.16  | 119     | 202     | A       | V |
|                                      |   |           | 5743.16    | 54.13  | -19.87     | 74       | 43.27    | 35.79  | 7.18   | 32.11  | 119     | 202     | P       | V |
|                                      |   |           | 5755.64    | 43.71  | -10.29     | 54       | 32.83    | 35.81  | 7.18   | 32.11  | 119     | 202     | A       | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |   |



| 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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5702      | 108.36     | -      | -          | 97.56  | 35.77    | 7.15   | 32.12  | 103    | 191     | P     | H     |
|                                      | *   | 5702      | 98.92      | -      | -          | 88.12  | 35.77    | 7.15   | 32.12  | 103    | 191     | A     | H     |
|                                      |   | 5726.92   | 67.3       | -6.7   | 74         | 56.48  | 35.78    | 7.16   | 32.12  | 103    | 191     | P     | H     |
|                                      |   | 5725      | 51.03      | -2.97  | 54         | 40.21  | 35.78    | 7.16   | 32.12  | 103    | 191     | A     | H     |
|                                      |   |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      |   |           |            |        |            |        |          |        |        |        |         |       | H     |
|                                      | *   | 5698      | 100.61     | -      | -          | 89.84  | 35.75    | 7.15   | 32.13  | 100    | 203     | P     | V     |
|                                      | *   | 5698      | 91.3       | -      | -          | 80.53  | 35.75    | 7.15   | 32.13  | 100    | 203     | A     | V     |
|                                      |   | 5726.76   | 60.17      | -13.83 | 74         | 49.35  | 35.78    | 7.16   | 32.12  | 100    | 203     | P     | V     |
|                                      |   | 5725.08   | 46.04      | -7.96  | 54         | 35.22  | 35.78    | 7.16   | 32.12  | 100    | 203     | A     | V     |
|                                      |   |           |            |        |            |        |          |        |        |        |         | V     |       |
|                                      |   |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



15E band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11002     | 51.97      | -22.03 | 74         | 60.49    | 38.6     | 10.08  | 57.2   | 100    | 133     | P       | H       |
|                                      |   | 11002     | 41.71      | -12.29 | 54         | 50.23    | 38.6     | 10.08  | 57.2   | 100    | 133     | A       | H       |
|                                      |   | 16500     | 48.87      | -25.13 | 74         | 52.39    | 41.4     | 12.18  | 57.1   | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11000     | 57.22      | -16.78 | 74         | 65.74    | 38.6     | 10.08  | 57.2   | 100    | 211     | P       | V       |
|                                      |   | 11000     | 47.17      | -6.83  | 54         | 55.69    | 38.6     | 10.08  | 57.2   | 100    | 211     | A       | V       |
|                                      |   | 16500     | 51.41      | -22.59 | 74         | 54.93    | 41.4     | 12.18  | 57.1   | 100    | 38      | P       | V       |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160     | 52.32      | -21.68 | 74         | 60.54    | 38.73    | 10.15  | 57.1   | 100    | 15      | P       | H       |
|                                      |   | 11160     | 42.25      | -11.75 | 54         | 50.47    | 38.73    | 10.15  | 57.1   | 100    | 15      | A       | H       |
|                                      |   | 16740     | 49.92      | -24.08 | 74         | 52.96    | 41.74    | 12.32  | 57.1   | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11160     | 57.23      | -16.77 | 74         | 65.45    | 38.73    | 10.15  | 57.1   | 100    | 185     | P       | V       |
|                                      |   | 11160     | 47.27      | -6.73  | 54         | 55.49    | 38.73    | 10.15  | 57.1   | 100    | 185     | A       | V       |
|                                      |   | 16738     | 51.56      | -22.44 | 74         | 54.6     | 41.74    | 12.32  | 57.1   | 100    | 147     | P       | V       |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11402     | 53.3       | -20.7  | 74         | 61.06    | 38.92    | 10.28  | 56.96  | 100    | 54      | P       | H       |
|                                      |   | 11402     | 43.27      | -10.73 | 54         | 51.03    | 38.92    | 10.28  | 56.96  | 100    | 54      | A       | H       |
|                                      |   | 17100     | 47.83      | -26.17 | 74         | 50.65    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | H       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | H       |
|                                      |   | 11402     | 58.63      | -15.37 | 74         | 66.39    | 38.92    | 10.28  | 56.96  | 100    | 133     | P       | V       |
|                                      |   | 11402     | 48.48      | -5.52  | 54         | 56.24    | 38.92    | 10.28  | 56.96  | 100    | 133     | A       | V       |
|                                      |   | 17100     | 48.34      | -25.66 | 74         | 51.16    | 42.06    | 12.48  | 57.36  | 100    | 0       | P       | V       |
|                                      |   |           |            |        |            |          |          |        |        |        |         |         | V       |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |         |         |



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 5466.32   | 66.18      | -7.82  | 74         | 55.88    | 35.56    | 6.94   | 32.2   | 107    | 189     | P     | H     |
|                                      |   | 5468.88   | 50.16      | -3.84  | 54         | 39.86    | 35.56    | 6.94   | 32.2   | 107    | 189     | A     | H     |
|                                      | *   | 5508      | 104.19     | -      | -          | 93.8     | 35.6     | 6.98   | 32.19  | 107    | 189     | P     | H     |
|                                      | *   | 5508      | 93.94      | -      | -          | 83.55    | 35.6     | 6.98   | 32.19  | 107    | 189     | A     | H     |
|                                      |   | 5731.4    | 54.3       | -19.7  | 74         | 43.48    | 35.78    | 7.16   | 32.12  | 107    | 189     | P     | H     |
|                                      |   | 5733.48   | 43.64      | -10.36 | 54         | 32.82    | 35.78    | 7.16   | 32.12  | 107    | 189     | A     | H     |
|                                      |   | 5468.24   | 61.72      | -12.28 | 74         | 51.42    | 35.56    | 6.94   | 32.2   | 100    | 177     | P     | V     |
|                                      |   | 5469.52   | 45.66      | -8.34  | 54         | 35.36    | 35.56    | 6.94   | 32.2   | 100    | 177     | A     | V     |
|                                      | *   | 5508      | 96.87      | -      | -          | 86.48    | 35.6     | 6.98   | 32.19  | 100    | 177     | P     | V     |
|                                      | *   | 5508      | 86.54      | -      | -          | 76.15    | 35.6     | 6.98   | 32.19  | 100    | 177     | A     | V     |
|                                      |   | 5739.4    | 53.03      | -20.97 | 74         | 42.19    | 35.79    | 7.16   | 32.11  | 100    | 177     | P     | V     |
|                                      |   | 5735.72   | 43.58      | -10.42 | 54         | 32.74    | 35.79    | 7.16   | 32.11  | 100    | 177     | A     | V     |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 5470      | 60.2       | -13.8  | 74         | 49.9     | 35.56    | 6.94   | 32.2   | 105    | 191     | P     | H     |
|                                      |   | 5469.36   | 47.95      | -6.05  | 54         | 37.65    | 35.56    | 6.94   | 32.2   | 105    | 191     | A     | H     |
|                                      | *   | 5548      | 106.4      | -      | -          | 95.91    | 35.64    | 7.02   | 32.17  | 105    | 191     | P     | H     |
|                                      | *   | 5548      | 96.21      | -      | -          | 85.72    | 35.64    | 7.02   | 32.17  | 105    | 191     | A     | H     |
|                                      |   | 5740.84   | 54.92      | -19.08 | 74         | 44.06    | 35.79    | 7.18   | 32.11  | 105    | 191     | P     | H     |
|                                      |   | 5726.04   | 44.33      | -9.67  | 54         | 33.51    | 35.78    | 7.16   | 32.12  | 105    | 191     | A     | H     |
|                                      |   | 5468.4    | 56.05      | -17.95 | 74         | 45.75    | 35.56    | 6.94   | 32.2   | 100    | 177     | P     | V     |
|                                      |   | 5468.88   | 44.82      | -9.18  | 54         | 34.52    | 35.56    | 6.94   | 32.2   | 100    | 177     | A     | V     |
|                                      | *   | 5548      | 99.11      | -      | -          | 88.62    | 35.64    | 7.02   | 32.17  | 100    | 177     | P     | V     |
|                                      | *   | 5548      | 89.44      | -      | -          | 78.95    | 35.64    | 7.02   | 32.17  | 100    | 177     | A     | V     |
|                                      |   | 5753      | 53.47      | -20.53 | 74         | 42.59    | 35.81    | 7.18   | 32.11  | 100    | 177     | P     | V     |
|                                      |   | 5763.96   | 43.58      | -10.42 | 54         | 32.7     | 35.81    | 7.18   | 32.11  | 100    | 177     | A     | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |       |       |



| 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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5450.48   | 55.06      | -18.94 | 74         | 44.8     | 35.54    | 6.92   | 32.2   | 103    | 155     | P     | H     |
|                                      |   | 5460.08   | 44.72      | -9.28  | 54         | 34.44    | 35.54    | 6.94   | 32.2   | 103    | 155     | A     | H     |
|                                      | *   | 5672      | 105        | -      | -          | 94.26    | 35.74    | 7.13   | 32.13  | 103    | 155     | P     | H     |
|                                      | *   | 5672      | 94.6       | -      | -          | 83.86    | 35.74    | 7.13   | 32.13  | 103    | 155     | A     | H     |
|                                      |   | 5727.4    | 68.36      | -5.64  | 74         | 57.54    | 35.78    | 7.16   | 32.12  | 103    | 155     | P     | H     |
|                                      |   | 5725.16   | 50.79      | -3.21  | 54         | 39.97    | 35.78    | 7.16   | 32.12  | 103    | 155     | A     | H     |
|                                      |   | 5450.48   | 53.87      | -20.13 | 74         | 43.61    | 35.54    | 6.92   | 32.2   | 100    | 199     | P     | V     |
|                                      |   | 5449.84   | 43.13      | -10.87 | 54         | 32.87    | 35.54    | 6.92   | 32.2   | 100    | 199     | A     | V     |
|                                      | *   | 5668      | 97.78      | -      | -          | 87.07    | 35.74    | 7.1    | 32.13  | 100    | 199     | P     | V     |
|                                      | *   | 5668      | 88.09      | -      | -          | 77.38    | 35.74    | 7.1    | 32.13  | 100    | 199     | A     | V     |
|                                      |   | 5727.24   | 57.95      | -16.05 | 74         | 47.13    | 35.78    | 7.16   | 32.12  | 100    | 199     | P     | V     |
|                                      |   | 5725      | 45.09      | -8.91  | 54         | 34.27    | 35.78    | 7.16   | 32.12  | 100    | 199     | A     | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |       |       |



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 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+2                                  |   | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11022     | 49         | -25    | 74         | 57.46    | 38.63    | 10.09  | 57.18  | 100    | 0       | P     | H     |
|                                      |   | 16530     | 45.62      | -28.38 | 74         | 49.07    | 41.45    | 12.2   | 57.1   | 100    | 0       | P     | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   | 11018     | 52.36      | -21.64 | 74         | 60.86    | 38.61    | 10.08  | 57.19  | 100    | 18      | P     | V     |
|                                      |   | 11018     | 42.38      | -11.62 | 54         | 50.88    | 38.61    | 10.08  | 57.19  | 100    | 18      | A     | V     |
|                                      |   | 16530     | 47.12      | -26.88 | 74         | 50.57    | 41.45    | 12.2   | 57.1   | 100    | 0       | P     | V     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100     | 46.47      | -27.53 | 74         | 54.8     | 38.68    | 10.13  | 57.14  | 100    | 0       | P     | H     |
|                                      |   | 16650     | 46.43      | -27.57 | 74         | 49.63    | 41.62    | 12.28  | 57.1   | 100    | 0       | P     | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   | 11100     | 54.21      | -19.79 | 74         | 62.54    | 38.68    | 10.13  | 57.14  | 100    | 13      | P     | V     |
|                                      |   | 11100     | 44.48      | -9.52  | 54         | 52.81    | 38.68    | 10.13  | 57.14  | 100    | 13      | A     | V     |
|                                      |   | 16650     | 48.63      | -25.37 | 74         | 51.83    | 41.62    | 12.28  | 57.1   | 100    | 0       | P     | V     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | V     |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340     | 48.86      | -25.14 | 74         | 56.74    | 38.87    | 10.25  | 57     | 100    | 0       | P     | H     |
|                                      |   | 17010     | 47.43      | -26.57 | 74         | 50.04    | 42.09    | 12.44  | 57.14  | 100    | 0       | P     | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | H     |
|                                      |   | 11340     | 53.89      | -20.11 | 74         | 61.77    | 38.87    | 10.25  | 57     | 115    | 27      | P     | V     |
|                                      |   | 11340     | 44.08      | -9.92  | 54         | 51.96    | 38.87    | 10.25  | 57     | 115    | 27      | A     | V     |
|                                      |   | 17010     | 47.59      | -26.41 | 74         | 50.2     | 42.09    | 12.44  | 57.14  | 100    | 0       | P     | V     |
|                                      |   |           |            |        |            |          |          |        |        |        |         |       | V     |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |          |          |        |        |        |         |       |       |



15E Emission below 1GHz

WIFI 802.11n HT40 (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+2                   |  | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |   |
| 802.11n<br>HT40<br>LF |  | 111.27    | 29.01      | -14.49 | 43.5       | 48.44    | 11.2     | 1.15   | 31.78  | -      | -       | P       | H       |   |
|                       |  | 139.89    | 27.93      | -15.57 | 43.5       | 46.95    | 11.5     | 1.26   | 31.78  | -      | -       | P       | H       |   |
|                       |  | 199.83    | 36.64      | -6.86  | 43.5       | 57.85    | 9.1      | 1.47   | 31.78  | 100    | 233     | P       | H       |   |
|                       |  | 393.8     | 33.62      | -12.38 | 46         | 47.76    | 15.66    | 2      | 31.8   | -      | -       | P       | H       |   |
|                       |  | 491.1     | 32.98      | -13.02 | 46         | 44.74    | 17.91    | 2.21   | 31.88  | -      | -       | P       | H       |   |
|                       |  | 913.2     | 37.15      | -8.85  | 46         | 41.8     | 23.65    | 3.02   | 31.32  | -      | -       | P       | H       |   |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           |            |        |            |          |          |        |        |        |         |         |         | H |
|                       |  |           | 93.45      | 29.09  | -14.41     | 43.5     | 50.77    | 9.04   | 1.06   | 31.78  | -       | -       | P       | V |
|                       |  |           | 123.96     | 27.87  | -15.63     | 43.5     | 46.87    | 11.58  | 1.2    | 31.78  | -       | -       | P       | V |
|                       |  |           | 200.37     | 30.12  | -13.38     | 43.5     | 51.31    | 9.11   | 1.48   | 31.78  | -       | -       | P       | V |
|                       |  |           | 554.8      | 34.35  | -11.65     | 46       | 44.08    | 19.9   | 2.34   | 31.97  | -       | -       | P       | V |
|                       |  |           | 600.3      | 35.54  | -10.46     | 46       | 45.44    | 19.7   | 2.44   | 32.04  | 141     | 61      | P       | V |
|                       |  |           | 666.8      | 34.73  | -11.27     | 46       | 43.87    | 20.3   | 2.6    | 32.04  | -       | -       | P       | 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 per 15.209(c). |
| !   | 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+2     |      | ( 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       |

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

**For Peak Limit @ 2390MHz:**

- 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)
- Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

- 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)
- 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”.