



## Appendix B. Radiated Spurious Emission

|                 |                         |                     |         |
|-----------------|-------------------------|---------------------|---------|
| Test Engineer : | JC Liang and Jacky Hung | Temperature :       | 20~23°C |
|                 |                         | Relative Humidity : | 58~63%  |

### Band 4 - 5725~5850MHz

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

| WIFI Ant.                    | Note | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|------------------------------|------|-----------|------------|------------|------------|------------|----------------|------------|---------------------|---------|-----------|-----------|---------|
| 1                            |      | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )     | ( dB )              | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| 802.11a<br>CH 149<br>5745MHz |      | 5648.4    | 50.2       | -18        | 68.2       | 40.1       | 32.17          | 11.47      | 33.54               | 271     | 85        | P         | H       |
|                              |      | 5697.8    | 51.44      | -52.14     | 103.58     | 41.3       | 32.23          | 11.47      | 33.56               | 271     | 85        | P         | H       |
|                              |      | 5717.8    | 56.24      | -53.94     | 110.18     | 46.08      | 32.27          | 11.46      | 33.57               | 271     | 85        | P         | H       |
|                              |      | 5721.8    | 58.83      | -56.07     | 114.9      | 48.67      | 32.27          | 11.46      | 33.57               | 271     | 85        | P         | H       |
|                              | *    | 5745      | 102.45     | -          | -          | 92.27      | 32.29          | 11.46      | 33.57               | 271     | 85        | P         | H       |
|                              | *    | 5745      | 93.59      | -          | -          | 83.41      | 32.29          | 11.46      | 33.57               | 271     | 85        | A         | H       |
|                              |      |           |            |            |            |            |                |            |                     |         |           |           | H       |
|                              |      |           |            |            |            |            |                |            |                     |         |           |           | H       |
|                              |      | 5615.6    | 50.02      | -18.18     | 68.2       | 39.93      | 32.14          | 11.48      | 33.53               | 180     | 334       | P         | V       |
|                              |      | 5690.6    | 50.89      | -47.38     | 98.27      | 40.75      | 32.23          | 11.47      | 33.56               | 180     | 334       | P         | V       |
|                              |      | 5717.8    | 55.18      | -55        | 110.18     | 45.02      | 32.27          | 11.46      | 33.57               | 180     | 334       | P         | V       |
|                              |      | 5723.4    | 60.5       | -58.05     | 118.55     | 50.34      | 32.27          | 11.46      | 33.57               | 180     | 334       | P         | V       |
|                              | *    | 5745      | 102.91     | -          | -          | 92.73      | 32.29          | 11.46      | 33.57               | 180     | 334       | P         | V       |
|                              | *    | 5745      | 93.88      | -          | -          | 83.7       | 32.29          | 11.46      | 33.57               | 180     | 334       | A         | V       |
|                              |      |           |            |            |            |            |                |            |                     |         |           |           | V       |
|                              |      |           |            |            |            |            |                |            |                     |         |           |           | V       |



| WIFI<br>Ant.<br>1            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 157<br>5785MHz |      | 5610.2               | 50.55               | -17.65                  | 68.2                        | 40.48                     | 32.12                         | 11.48                   | 33.53                      | 271                  | 85                      | P                       | H               |
|                              |      | 5689.6               | 49.09               | -48.44                  | 97.53                       | 38.95                     | 32.23                         | 11.47                   | 33.56                      | 271                  | 85                      | P                       | H               |
|                              |      | 5713.2               | 49.58               | -59.32                  | 108.9                       | 39.44                     | 32.25                         | 11.46                   | 33.57                      | 271                  | 85                      | P                       | H               |
|                              |      | 5724.6               | 48.07               | -73.22                  | 121.29                      | 37.91                     | 32.27                         | 11.46                   | 33.57                      | 271                  | 85                      | P                       | H               |
|                              | *    | 5785                 | 100.63              | -                       | -                           | 90.44                     | 32.33                         | 11.45                   | 33.59                      | 271                  | 85                      | P                       | H               |
|                              | *    | 5785                 | 93.44               | -                       | -                           | 83.25                     | 32.33                         | 11.45                   | 33.59                      | 271                  | 85                      | A                       | H               |
|                              |      | 5851.8               | 49.43               | -68.67                  | 118.1                       | 39.1                      | 32.41                         | 11.53                   | 33.61                      | 271                  | 85                      | P                       | H               |
|                              |      | 5856.2               | 48.89               | -61.57                  | 110.46                      | 38.54                     | 32.43                         | 11.53                   | 33.61                      | 271                  | 85                      | P                       | H               |
|                              |      | 5889.2               | 49.32               | -45.34                  | 94.66                       | 38.87                     | 32.48                         | 11.6                    | 33.63                      | 271                  | 85                      | P                       | H               |
|                              |      | 5948.8               | 49.41               | -18.79                  | 68.2                        | 38.78                     | 32.54                         | 11.74                   | 33.65                      | 271                  | 85                      | P                       | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |      | 5631.4               | 49.87               | -18.33                  | 68.2                        | 39.8                      | 32.14                         | 11.47                   | 33.54                      | 183                  | 333                     | P                       | V               |
|                              |      | 5682.2               | 49.61               | -42.46                  | 92.07                       | 39.49                     | 32.21                         | 11.47                   | 33.56                      | 183                  | 333                     | P                       | V               |
|                              |      | 5720                 | 49.71               | -61.09                  | 110.8                       | 39.55                     | 32.27                         | 11.46                   | 33.57                      | 183                  | 333                     | P                       | V               |
|                              |      | 5722.8               | 50.49               | -66.69                  | 117.18                      | 40.33                     | 32.27                         | 11.46                   | 33.57                      | 183                  | 333                     | P                       | V               |
|                              | *    | 5785                 | 101.31              | -                       | -                           | 91.12                     | 32.33                         | 11.45                   | 33.59                      | 183                  | 333                     | P                       | V               |
|                              | *    | 5785                 | 93.77               | -                       | -                           | 83.58                     | 32.33                         | 11.45                   | 33.59                      | 183                  | 333                     | A                       | V               |
|                              |      | 5850.4               | 49.26               | -72.03                  | 121.29                      | 38.93                     | 32.41                         | 11.53                   | 33.61                      | 183                  | 333                     | P                       | V               |
|                              |      | 5867                 | 48.53               | -58.91                  | 107.44                      | 38.12                     | 32.43                         | 11.6                    | 33.62                      | 183                  | 333                     | P                       | V               |
|                              |      | 5925                 | 49.14               | -19.06                  | 68.2                        | 38.59                     | 32.52                         | 11.67                   | 33.64                      | 183                  | 333                     | P                       | V               |
|                              |      | 5925                 | 49.14               | -19.06                  | 68.2                        | 38.59                     | 32.52                         | 11.67                   | 33.64                      | 183                  | 333                     | P                       | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                                                                                            | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------------------------------------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 165<br>5825MHz                                                                                 | *    | 5825                 | 100.84              | -                       | -                           | 90.52                     | 32.39                         | 11.53                   | 33.6                       | 266                  | 85                      | P                       | H               |
|                                                                                                              | *    | 5825                 | 93.27               | -                       | -                           | 82.95                     | 32.39                         | 11.53                   | 33.6                       | 266                  | 85                      | A                       | H               |
|                                                                                                              |      | 5852.4               | 53.26               | -63.47                  | 116.73                      | 42.93                     | 32.41                         | 11.53                   | 33.61                      | 266                  | 85                      | P                       | H               |
|                                                                                                              |      | 5861                 | 50.72               | -58.4                   | 109.12                      | 40.31                     | 32.43                         | 11.6                    | 33.62                      | 266                  | 85                      | P                       | H               |
|                                                                                                              |      | 5886                 | 49.42               | -47.61                  | 97.03                       | 38.99                     | 32.46                         | 11.6                    | 33.63                      | 266                  | 85                      | P                       | H               |
|                                                                                                              |      | 5942                 | 50.11               | -18.09                  | 68.2                        | 39.48                     | 32.54                         | 11.74                   | 33.65                      | 266                  | 85                      | P                       | H               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                                                                              | *    | 5825                 | 100.48              | -                       | -                           | 90.16                     | 32.39                         | 11.53                   | 33.6                       | 170                  | 337                     | P                       | V               |
|                                                                                                              | *    | 5825                 | 93.09               | -                       | -                           | 82.77                     | 32.39                         | 11.53                   | 33.6                       | 170                  | 337                     | A                       | V               |
|                                                                                                              |      | 5853.4               | 51.98               | -62.47                  | 114.45                      | 41.65                     | 32.41                         | 11.53                   | 33.61                      | 170                  | 337                     | P                       | V               |
|                                                                                                              |      | 5855                 | 51.94               | -58.86                  | 110.8                       | 41.59                     | 32.43                         | 11.53                   | 33.61                      | 170                  | 337                     | P                       | V               |
|                                                                                                              |      | 5881.8               | 49.86               | -50.29                  | 100.15                      | 39.42                     | 32.46                         | 11.6                    | 33.62                      | 170                  | 337                     | P                       | V               |
|                                                                                                              |      | 5937.2               | 49.23               | -18.97                  | 68.2                        | 38.69                     | 32.52                         | 11.67                   | 33.65                      | 170                  | 337                     | P                       | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                                                                              |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| <b>Remark</b><br>1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI<br>Ant.<br>1            | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11a<br>CH 149<br>5745MHz |                                                                                             | 11490                | 43.69               | -30.31                  | 74                          | 38.78                     | 40.3                          | 15.85                   | 51.24                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17235                | 45.95               | -22.25                  | 68.2                        | 35.73                     | 41.64                         | 20.57                   | 51.99                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11490                | 43.17               | -30.83                  | 74                          | 38.26                     | 40.3                          | 15.85                   | 51.24                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17235                | 45.64               | -22.56                  | 68.2                        | 35.42                     | 41.64                         | 20.57                   | 51.99                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 157<br>5785MHz |                                                                                             | 11570                | 43.01               | -30.99                  | 74                          | 38.24                     | 40.12                         | 15.91                   | 51.26                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17355                | 45.89               | -22.31                  | 68.2                        | 35.06                     | 42.06                         | 20.78                   | 52.01                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11570                | 43.19               | -30.81                  | 74                          | 38.42                     | 40.12                         | 15.91                   | 51.26                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17355                | 46.07               | -22.13                  | 68.2                        | 35.24                     | 42.06                         | 20.78                   | 52.01                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11a<br>CH 165<br>5825MHz |                                                                                             | 11650                | 43.72               | -30.28                  | 74                          | 39.1                      | 39.94                         | 15.97                   | 51.29                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             | 17475                | 47.8                | -20.4                   | 68.2                        | 36.35                     | 42.48                         | 20.99                   | 52.02                      | 100                  | 0                       | P                       | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                              |                                                                                             | 11650                | 42.84               | -31.16                  | 74                          | 38.22                     | 39.94                         | 15.97                   | 51.29                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             | 17475                | 47.42               | -20.78                  | 68.2                        | 35.97                     | 42.48                         | 20.99                   | 52.02                      | 100                  | 0                       | P                       | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                              |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |


**Band 4 5725~5850MHz**
**WIFI 802.11n HT20 (Band Edge @ 3m)**

| WIFI<br>Ant.<br>1                              | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|------------------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| <b>802.11n<br/>HT20<br/>CH 149<br/>5745MHz</b> |      | 5649.6               | 49.16               | -19.04                  | 68.2                        | 39.04                     | 32.19                         | 11.47                   | 33.54                      | 274                  | 84                      | P                       | H               |
|                                                |      | 5697.2               | 50.91               | -52.23                  | 103.14                      | 40.77                     | 32.23                         | 11.47                   | 33.56                      | 274                  | 84                      | P                       | H               |
|                                                |      | 5712                 | 51.22               | -57.34                  | 108.56                      | 41.08                     | 32.25                         | 11.46                   | 33.57                      | 274                  | 84                      | P                       | H               |
|                                                |      | 5724.8               | 55.54               | -66.2                   | 121.74                      | 45.38                     | 32.27                         | 11.46                   | 33.57                      | 274                  | 84                      | P                       | H               |
|                                                | *    | 5745                 | 100.03              | -                       | -                           | 89.85                     | 32.29                         | 11.46                   | 33.57                      | 274                  | 84                      | P                       | H               |
|                                                | *    | 5745                 | 93.18               | -                       | -                           | 83                        | 32.29                         | 11.46                   | 33.57                      | 274                  | 84                      | A                       | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                                |      | 5638.2               | 49.98               | -18.22                  | 68.2                        | 39.88                     | 32.17                         | 11.47                   | 33.54                      | 198                  | 335                     | P                       | V               |
|                                                |      | 5699                 | 50.3                | -54.16                  | 104.46                      | 40.16                     | 32.23                         | 11.47                   | 33.56                      | 198                  | 335                     | P                       | V               |
|                                                |      | 5710.6               | 52.11               | -56.06                  | 108.17                      | 41.97                     | 32.25                         | 11.46                   | 33.57                      | 198                  | 335                     | P                       | V               |
|                                                |      | 5724.2               | 56.52               | -63.86                  | 120.38                      | 46.36                     | 32.27                         | 11.46                   | 33.57                      | 198                  | 335                     | P                       | V               |
|                                                | *    | 5745                 | 100.88              | -                       | -                           | 90.7                      | 32.29                         | 11.46                   | 33.57                      | 198                  | 335                     | P                       | V               |
|                                                | *    | 5745                 | 93.67               | -                       | -                           | 83.49                     | 32.29                         | 11.46                   | 33.57                      | 198                  | 335                     | A                       | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                                |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 157<br>5785MHz |      | 5614                 | 49.65               | -18.55                  | 68.2                        | 39.58                     | 32.12                         | 11.48                   | 33.53                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5651.8               | 50.96               | -18.58                  | 69.54                       | 40.84                     | 32.19                         | 11.47                   | 33.54                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5703.8               | 48.41               | -57.86                  | 106.27                      | 38.26                     | 32.25                         | 11.46                   | 33.56                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5724.2               | 49.45               | -70.93                  | 120.38                      | 39.29                     | 32.27                         | 11.46                   | 33.57                      | 277                  | 85                      | P                       | H               |
|                                      | *    | 5785                 | 99.66               | -                       | -                           | 89.47                     | 32.33                         | 11.45                   | 33.59                      | 277                  | 85                      | P                       | H               |
|                                      | *    | 5785                 | 91.88               | -                       | -                           | 81.69                     | 32.33                         | 11.45                   | 33.59                      | 277                  | 85                      | A                       | H               |
|                                      |      | 5852                 | 49.16               | -68.48                  | 117.64                      | 38.83                     | 32.41                         | 11.53                   | 33.61                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5864.2               | 49.84               | -58.38                  | 108.22                      | 39.43                     | 32.43                         | 11.6                    | 33.62                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5893                 | 50.02               | -41.82                  | 91.84                       | 39.57                     | 32.48                         | 11.6                    | 33.63                      | 277                  | 85                      | P                       | H               |
|                                      |      | 5932                 | 49.29               | -18.91                  | 68.2                        | 38.74                     | 32.52                         | 11.67                   | 33.64                      | 277                  | 85                      | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5645.2               | 49.62               | -18.58                  | 68.2                        | 39.52                     | 32.17                         | 11.47                   | 33.54                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5661.8               | 50.58               | -26.38                  | 76.96                       | 40.47                     | 32.19                         | 11.47                   | 33.55                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5719                 | 49.52               | -61                     | 110.52                      | 39.36                     | 32.27                         | 11.46                   | 33.57                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5723.6               | 49.01               | -70                     | 119.01                      | 38.85                     | 32.27                         | 11.46                   | 33.57                      | 183                  | 335                     | P                       | V               |
|                                      | *    | 5785                 | 99.89               | -                       | -                           | 89.7                      | 32.33                         | 11.45                   | 33.59                      | 183                  | 335                     | P                       | V               |
|                                      | *    | 5785                 | 92.17               | -                       | -                           | 81.98                     | 32.33                         | 11.45                   | 33.59                      | 183                  | 335                     | A                       | V               |
|                                      |      | 5852                 | 49.19               | -68.45                  | 117.64                      | 38.86                     | 32.41                         | 11.53                   | 33.61                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5874.6               | 49.09               | -56.22                  | 105.31                      | 38.65                     | 32.46                         | 11.6                    | 33.62                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5905.8               | 51.52               | -30.85                  | 82.37                       | 40.98                     | 32.5                          | 11.67                   | 33.63                      | 183                  | 335                     | P                       | V               |
|                                      |      | 5946.6               | 48.29               | -19.91                  | 68.2                        | 37.66                     | 32.54                         | 11.74                   | 33.65                      | 183                  | 335                     | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 165<br>5825MHz | *                                                                                           | 5825                 | 99.3                | -                       | -                           | 88.98                     | 32.39                         | 11.53                   | 33.6                       | 266                  | 84                      | P                       | H               |
|                                      | *                                                                                           | 5825                 | 91.63               | -                       | -                           | 81.31                     | 32.39                         | 11.53                   | 33.6                       | 266                  | 84                      | A                       | H               |
|                                      |                                                                                             | 5850                 | 49.14               | -73.06                  | 122.2                       | 38.81                     | 32.41                         | 11.53                   | 33.61                      | 266                  | 84                      | P                       | H               |
|                                      |                                                                                             | 5856.6               | 50.27               | -60.08                  | 110.35                      | 39.92                     | 32.43                         | 11.53                   | 33.61                      | 266                  | 84                      | P                       | H               |
|                                      |                                                                                             | 5907.8               | 49.98               | -30.91                  | 80.89                       | 39.44                     | 32.5                          | 11.67                   | 33.63                      | 266                  | 84                      | P                       | H               |
|                                      |                                                                                             | 5946.2               | 49.44               | -18.76                  | 68.2                        | 38.81                     | 32.54                         | 11.74                   | 33.65                      | 266                  | 84                      | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      | *                                                                                           | 5825                 | 99.59               | -                       | -                           | 89.27                     | 32.39                         | 11.53                   | 33.6                       | 191                  | 335                     | P                       | V               |
|                                      | *                                                                                           | 5825                 | 92.03               | -                       | -                           | 81.71                     | 32.39                         | 11.53                   | 33.6                       | 191                  | 335                     | A                       | V               |
|                                      |                                                                                             | 5851.8               | 50.77               | -67.33                  | 118.1                       | 40.44                     | 32.41                         | 11.53                   | 33.61                      | 191                  | 335                     | P                       | V               |
|                                      |                                                                                             | 5872.2               | 49.5                | -56.48                  | 105.98                      | 39.06                     | 32.46                         | 11.6                    | 33.62                      | 191                  | 335                     | P                       | V               |
|                                      |                                                                                             | 5877.4               | 49.61               | -53.81                  | 103.42                      | 39.17                     | 32.46                         | 11.6                    | 33.62                      | 191                  | 335                     | P                       | V               |
|                                      |                                                                                             | 5927.8               | 48.79               | -19.41                  | 68.2                        | 38.24                     | 32.52                         | 11.67                   | 33.64                      | 191                  | 335                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

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

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 149<br>5745MHz |                                                                                             | 11490                | 43.8                | -30.2                   | 74                          | 38.89                     | 40.3                          | 15.85                   | 51.24                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17235                | 44.7                | -23.5                   | 68.2                        | 34.48                     | 41.64                         | 20.57                   | 51.99                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11490                | 42.78               | -31.22                  | 74                          | 37.87                     | 40.3                          | 15.85                   | 51.24                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17235                | 45.86               | -22.34                  | 68.2                        | 35.64                     | 41.64                         | 20.57                   | 51.99                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 157<br>5785MHz |                                                                                             | 11570                | 43.27               | -30.73                  | 74                          | 38.5                      | 40.12                         | 15.91                   | 51.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17355                | 46.58               | -21.62                  | 68.2                        | 35.75                     | 42.06                         | 20.78                   | 52.01                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11570                | 42.18               | -31.82                  | 74                          | 37.41                     | 40.12                         | 15.91                   | 51.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17355                | 45.93               | -22.27                  | 68.2                        | 35.1                      | 42.06                         | 20.78                   | 52.01                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 165<br>5825MHz |                                                                                             | 11650                | 43.03               | -30.97                  | 74                          | 38.41                     | 39.94                         | 15.97                   | 51.29                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17475                | 47.55               | -20.65                  | 68.2                        | 36.1                      | 42.48                         | 20.99                   | 52.02                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11650                | 43.5                | -30.5                   | 74                          | 38.88                     | 39.94                         | 15.97                   | 51.29                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17475                | 47.65               | -20.55                  | 68.2                        | 36.2                      | 42.48                         | 20.99                   | 52.02                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |





## Band 4 5725~5850MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1                    | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |      | 5617.8               | 49.8                | -18.4                   | 68.2                        | 39.71                     | 32.14                         | 11.48                   | 33.53                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5695.4               | 50.83               | -50.98                  | 101.81                      | 40.69                     | 32.23                         | 11.47                   | 33.56                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5717                 | 56.44               | -53.52                  | 109.96                      | 46.3                      | 32.25                         | 11.46                   | 33.57                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5720.8               | 56.29               | -56.33                  | 112.62                      | 46.13                     | 32.27                         | 11.46                   | 33.57                      | 276                  | 84                      | P                       | H               |
|                                      | *    | 5755                 | 98.38               | -                       | -                           | 88.18                     | 32.31                         | 11.46                   | 33.57                      | 276                  | 84                      | P                       | H               |
|                                      | *    | 5755                 | 90.62               | -                       | -                           | 80.42                     | 32.31                         | 11.46                   | 33.57                      | 276                  | 84                      | A                       | H               |
|                                      |      | 5850                 | 49.77               | -72.43                  | 122.2                       | 39.44                     | 32.41                         | 11.53                   | 33.61                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5855.6               | 49.47               | -61.16                  | 110.63                      | 39.12                     | 32.43                         | 11.53                   | 33.61                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5919.4               | 48.55               | -23.78                  | 72.33                       | 38.02                     | 32.5                          | 11.67                   | 33.64                      | 276                  | 84                      | P                       | H               |
|                                      |      | 5931.2               | 49.4                | -18.8                   | 68.2                        | 38.85                     | 32.52                         | 11.67                   | 33.64                      | 276                  | 84                      | P                       | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |      | 5633.2               | 49.58               | -18.62                  | 68.2                        | 39.48                     | 32.17                         | 11.47                   | 33.54                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5696.4               | 51.2                | -51.35                  | 102.55                      | 41.06                     | 32.23                         | 11.47                   | 33.56                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5719.6               | 54.22               | -56.47                  | 110.69                      | 44.06                     | 32.27                         | 11.46                   | 33.57                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5723                 | 58.17               | -59.47                  | 117.64                      | 48.01                     | 32.27                         | 11.46                   | 33.57                      | 199                  | 334                     | P                       | V               |
|                                      | *    | 5755                 | 99.12               | -                       | -                           | 88.92                     | 32.31                         | 11.46                   | 33.57                      | 199                  | 334                     | P                       | V               |
|                                      | *    | 5755                 | 90.96               | -                       | -                           | 80.76                     | 32.31                         | 11.46                   | 33.57                      | 199                  | 334                     | A                       | V               |
|                                      |      | 5853                 | 48.7                | -66.66                  | 115.36                      | 38.37                     | 32.41                         | 11.53                   | 33.61                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5860.6               | 49.94               | -59.29                  | 109.23                      | 39.53                     | 32.43                         | 11.6                    | 33.62                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5901.2               | 49.9                | -35.87                  | 85.77                       | 39.38                     | 32.48                         | 11.67                   | 33.63                      | 199                  | 334                     | P                       | V               |
|                                      |      | 5930                 | 48.69               | -19.51                  | 68.2                        | 38.14                     | 32.52                         | 11.67                   | 33.64                      | 199                  | 334                     | P                       | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |



| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 5631.4               | 49.92               | -18.28                  | 68.2                        | 39.85                     | 32.14                         | 11.47                   | 33.54                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5658.2               | 49.6                | -24.69                  | 74.29                       | 39.49                     | 32.19                         | 11.47                   | 33.55                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5708.4               | 50.27               | -57.28                  | 107.55                      | 40.13                     | 32.25                         | 11.46                   | 33.57                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5724.4               | 48.57               | -72.26                  | 120.83                      | 38.41                     | 32.27                         | 11.46                   | 33.57                      | 278                  | 85                      | P                       | H               |
|                                      | *                                                                                           | 5795                 | 98.45               | -                       | -                           | 88.24                     | 32.35                         | 11.45                   | 33.59                      | 278                  | 85                      | P                       | H               |
|                                      | *                                                                                           | 5795                 | 89.79               | -                       | -                           | 79.58                     | 32.35                         | 11.45                   | 33.59                      | 278                  | 85                      | A                       | H               |
|                                      |                                                                                             | 5852.2               | 48.9                | -68.28                  | 117.18                      | 38.57                     | 32.41                         | 11.53                   | 33.61                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5874.4               | 49.33               | -56.04                  | 105.37                      | 38.89                     | 32.46                         | 11.6                    | 33.62                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5893.6               | 49.18               | -42.22                  | 91.4                        | 38.73                     | 32.48                         | 11.6                    | 33.63                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             | 5934.4               | 48.83               | -19.37                  | 68.2                        | 38.29                     | 32.52                         | 11.67                   | 33.65                      | 278                  | 85                      | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 5607.6               | 49.56               | -18.64                  | 68.2                        | 39.49                     | 32.12                         | 11.48                   | 33.53                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5654.6               | 50.34               | -21.28                  | 71.62                       | 40.23                     | 32.19                         | 11.47                   | 33.55                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5711.8               | 49.45               | -59.06                  | 108.51                      | 39.31                     | 32.25                         | 11.46                   | 33.57                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5720.4               | 49.47               | -62.24                  | 111.71                      | 39.31                     | 32.27                         | 11.46                   | 33.57                      | 199                  | 338                     | P                       | V               |
|                                      | *                                                                                           | 5795                 | 97.86               | -                       | -                           | 87.65                     | 32.35                         | 11.45                   | 33.59                      | 199                  | 338                     | P                       | V               |
|                                      | *                                                                                           | 5795                 | 89.95               | -                       | -                           | 79.74                     | 32.35                         | 11.45                   | 33.59                      | 199                  | 338                     | A                       | V               |
|                                      |                                                                                             | 5850.2               | 49.72               | -72.02                  | 121.74                      | 39.39                     | 32.41                         | 11.53                   | 33.61                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5865.2               | 49.91               | -58.03                  | 107.94                      | 39.5                      | 32.43                         | 11.6                    | 33.62                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5917.2               | 50.88               | -23.07                  | 73.95                       | 40.35                     | 32.5                          | 11.67                   | 33.64                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             | 5941.2               | 48.59               | -19.61                  | 68.2                        | 37.96                     | 32.54                         | 11.74                   | 33.65                      | 199                  | 338                     | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## Band 4 5725~5850MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 151<br>5755MHz |                                                                                             | 11510                | 43.37               | -30.63                  | 74                          | 38.43                     | 40.3                          | 15.88                   | 51.24                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17265                | 45.81               | -22.39                  | 68.2                        | 35.41                     | 41.76                         | 20.64                   | 52                         | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11510                | 43.65               | -30.35                  | 74                          | 38.71                     | 40.3                          | 15.88                   | 51.24                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17265                | 46.12               | -22.08                  | 68.2                        | 35.72                     | 41.76                         | 20.64                   | 52                         | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 159<br>5795MHz |                                                                                             | 11590                | 42.4                | -31.6                   | 74                          | 37.64                     | 40.08                         | 15.94                   | 51.26                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             | 17385                | 46.49               | -21.71                  | 68.2                        | 35.47                     | 42.18                         | 20.85                   | 52.01                      | 100                  | 0                       | P                       | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                      |                                                                                             | 11590                | 42.45               | -31.55                  | 74                          | 37.69                     | 40.08                         | 15.94                   | 51.26                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             | 17385                | 47.22               | -20.98                  | 68.2                        | 36.2                      | 42.18                         | 20.85                   | 52.01                      | 100                  | 0                       | P                       | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                      |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |

## Emission below 1GHz

### 5GHz 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) |
| 5GHz<br>802.11a<br>LF |                                                                            | 31.08     | 24.49      | -15.51 | 40         | 29.85  | 25.18    | 1.29   | 31.83  |        |         | P     | H     |
|                       |                                                                            | 129.63    | 19.69      | -23.81 | 43.5       | 31.69  | 18       | 1.78   | 31.78  |        |         | P     | H     |
|                       |                                                                            | 200.1     | 21.56      | -21.94 | 43.5       | 35.24  | 16       | 2.1    | 31.78  |        |         | P     | H     |
|                       |                                                                            | 543.6     | 26.13      | -19.87 | 46         | 29.92  | 24.7     | 3.47   | 31.96  |        |         | P     | H     |
|                       |                                                                            | 728.4     | 29.4       | -16.6  | 46         | 30.12  | 27.27    | 4.02   | 32.01  |        |         | P     | H     |
|                       |                                                                            | 939.1     | 33.7       | -12.3  | 46         | 29.89  | 30.3     | 4.63   | 31.12  | 124    | 194     | P     | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | H     |
|                       |                                                                            | 31.89     | 26.12      | -13.88 | 40         | 32     | 24.66    | 1.29   | 31.83  |        |         | P     | V     |
|                       |                                                                            | 49.17     | 24.63      | -15.37 | 40         | 39.81  | 15.33    | 1.29   | 31.8   |        |         | P     | V     |
|                       |                                                                            | 129.09    | 18.11      | -25.39 | 43.5       | 30.14  | 17.97    | 1.78   | 31.78  |        |         | P     | V     |
|                       |                                                                            | 583.5     | 27.39      | -18.61 | 46         | 30.32  | 25.41    | 3.67   | 32.01  |        |         | P     | V     |
|                       |                                                                            | 725.6     | 29.74      | -16.26 | 46         | 30.52  | 27.21    | 4.02   | 32.01  |        |         | P     | V     |
|                       |                                                                            | 958.7     | 33.92      | -12.08 | 46         | 29.61  | 30.58    | 4.69   | 30.96  | 271    | 312     | P     | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         |       | V     |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
|                       |                                                                            |           |            |        |            |        |          |        |        |        |         | V     |       |
| Remark                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |        |          |        |        |        |         |       |       |



**Note symbol**

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



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

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

1. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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