



Appendix B. Radiated Spurious Emission

| | | | |
|-----------------|-----------------------------------|---------------------|---------|
| Test Engineer : | J.C. Liang, Ricky Su, and Nick Yu | Temperature : | 23~25°C |
| | | Relative Humidity : | 55~60% |

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|------------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11a CH 149 5745MHz | | 5712.84 | 63.58 | -10.42 | 74 | 53.61 | 32.29 | 11.84 | 34.16 | 357 | 235 | P | H | |
| | | 5723 | 71.55 | -6.75 | 78.3 | 61.56 | 32.31 | 11.84 | 34.16 | 357 | 235 | P | H | |
| | | 5712.68 | 52.35 | -1.65 | 54 | 42.38 | 32.29 | 11.84 | 34.16 | 357 | 235 | A | H | |
| | * | 5743 | 118.32 | - | - | 108.28 | 32.34 | 11.86 | 34.16 | 357 | 235 | P | H | |
| | * | 5743 | 108.4 | - | - | 98.36 | 32.34 | 11.86 | 34.16 | 357 | 235 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 5711.88 | 59.47 | -14.53 | 74 | 49.5 | 32.29 | 11.84 | 34.16 | 313 | 238 | P | V |
| | | | 5724.92 | 63.6 | -14.7 | 78.3 | 53.61 | 32.31 | 11.84 | 34.16 | 313 | 238 | P | V |
| | | | 5714.92 | 48.74 | -5.26 | 54 | 38.77 | 32.29 | 11.84 | 34.16 | 313 | 238 | A | V |
| | * | | 5743 | 111.67 | - | - | 101.63 | 32.34 | 11.86 | 34.16 | 313 | 238 | P | V |
| | * | | 5743 | 101.87 | - | - | 91.83 | 32.34 | 11.86 | 34.16 | 313 | 238 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |



| WiFi Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|------------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a CH 157 5785MHz | | 5713.88 | 62.66 | -11.34 | 74 | 52.69 | 32.29 | 11.84 | 34.16 | 266 | 234 | P | H |
| | | 5724.6 | 61.21 | -17.09 | 78.3 | 51.22 | 32.31 | 11.84 | 34.16 | 266 | 234 | P | H |
| | | 5712.2 | 50.71 | -3.29 | 54 | 40.74 | 32.29 | 11.84 | 34.16 | 266 | 234 | A | H |
| | * | 5785 | 120.07 | - | - | 109.97 | 32.39 | 11.88 | 34.17 | 266 | 234 | P | H |
| | * | 5785 | 111 | - | - | 100.9 | 32.39 | 11.88 | 34.17 | 266 | 234 | A | H |
| | | 5850.72 | 59.87 | -18.43 | 78.3 | 49.53 | 32.48 | 12.03 | 34.17 | 266 | 234 | P | H |
| | | 5883.92 | 60.82 | -13.18 | 74 | 50.3 | 32.53 | 12.17 | 34.18 | 266 | 234 | P | H |
| | | 5881.92 | 48.85 | -5.15 | 54 | 38.33 | 32.53 | 12.17 | 34.18 | 266 | 234 | A | H |
| | | 5700.2 | 60.85 | -13.15 | 74 | 50.9 | 32.27 | 11.84 | 34.16 | 323 | 212 | P | V |
| | | 5715.08 | 59.88 | -18.42 | 78.3 | 49.91 | 32.29 | 11.84 | 34.16 | 323 | 212 | P | V |
| | | 5688.12 | 48.15 | -5.85 | 54 | 38.22 | 32.27 | 11.82 | 34.16 | 323 | 212 | A | V |
| | * | 5785 | 116.03 | - | - | 105.93 | 32.39 | 11.88 | 34.17 | 323 | 212 | P | V |
| | * | 5785 | 106.89 | - | - | 96.79 | 32.39 | 11.88 | 34.17 | 323 | 212 | A | V |
| | | 5859.36 | 58.63 | -19.67 | 78.3 | 48.27 | 32.51 | 12.03 | 34.18 | 323 | 212 | P | V |
| | | 5867.12 | 59.76 | -14.24 | 74 | 49.26 | 32.51 | 12.17 | 34.18 | 323 | 212 | P | V |
| | | 5876 | 47.61 | -6.39 | 54 | 37.09 | 32.53 | 12.17 | 34.18 | 323 | 212 | A | V |



| WiFi Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11a CH 165 5825MHz | * | 5823 | 119.07 | - | - | 108.75 | 32.46 | 12.03 | 34.17 | 262 | 233 | P | H | |
| | * | 5823 | 109.49 | - | - | 99.17 | 32.46 | 12.03 | 34.17 | 262 | 233 | A | H | |
| | | 5852.08 | 69.83 | -8.47 | 78.3 | 59.49 | 32.48 | 12.03 | 34.17 | 262 | 233 | P | H | |
| | | 5863.92 | 63.31 | -10.69 | 74 | 52.81 | 32.51 | 12.17 | 34.18 | 262 | 233 | P | H | |
| | | 5863.84 | 50.22 | -3.78 | 54 | 39.72 | 32.51 | 12.17 | 34.18 | 262 | 233 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | * | 5823 | 114.54 | - | - | 104.22 | 32.46 | 12.03 | 34.17 | 310 | 177 | P | V | |
| | * | 5823 | 104.93 | - | - | 94.61 | 32.46 | 12.03 | 34.17 | 310 | 177 | A | V | |
| | | 5850.24 | 65.29 | -13.01 | 78.3 | 54.95 | 32.48 | 12.03 | 34.17 | 310 | 177 | P | V | |
| | | 5860.56 | 59.87 | -14.13 | 74 | 49.37 | 32.51 | 12.17 | 34.18 | 310 | 177 | P | V | |
| | | 5860 | 48.27 | -5.73 | 54 | 37.91 | 32.51 | 12.03 | 34.18 | 310 | 177 | A | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11a CH 149 5745MHz | | 11490 | 58.95 | -15.05 | 74 | 58.22 | 40.11 | 18.4 | 57.78 | 243 | 121 | P | H |
| | | 11490 | 49.22 | -4.78 | 54 | 48.49 | 40.11 | 18.4 | 57.78 | 243 | 121 | A | H |
| | | 17232 | 53.44 | -20.56 | 74 | 45.79 | 41.65 | 23.14 | 57.14 | 376 | 324 | P | H |
| | | 17232 | 41.67 | -12.33 | 54 | 34.02 | 41.65 | 23.14 | 57.14 | 376 | 324 | A | H |
| | | 11490 | 58.68 | -15.32 | 74 | 57.95 | 40.11 | 18.4 | 57.78 | 240 | 342 | P | V |
| | | 11490 | 45.62 | -8.38 | 54 | 44.89 | 40.11 | 18.4 | 57.78 | 240 | 342 | A | V |
| | | 17232 | 49.73 | -24.27 | 74 | 42.08 | 41.65 | 23.14 | 57.14 | 100 | 0 | P | V |
| | | | | | | | | | | | | | |
| 802.11a CH 157 5785MHz | | 11570 | 65.65 | -8.35 | 74 | 65.01 | 39.95 | 18.49 | 57.8 | 209 | 128 | P | H |
| | | 11570 | 53.16 | -0.84 | 54 | 52.52 | 39.95 | 18.49 | 57.8 | 209 | 128 | A | H |
| | | 17355 | 60.49 | -13.51 | 74 | 52.78 | 42.02 | 23.25 | 57.56 | 201 | 31 | P | H |
| | | 17355 | 47.01 | -6.99 | 54 | 39.3 | 42.02 | 23.25 | 57.56 | 201 | 31 | A | H |
| | | 11570 | 64.17 | -9.83 | 74 | 63.53 | 39.95 | 18.49 | 57.8 | 255 | 154 | P | V |
| | | 11570 | 51.05 | -2.95 | 54 | 50.41 | 39.95 | 18.49 | 57.8 | 255 | 154 | A | V |
| | | 17355 | 53.29 | -20.71 | 74 | 45.58 | 42.02 | 23.25 | 57.56 | 300 | 37 | P | V |
| | | 17355 | 40.38 | -13.62 | 54 | 32.67 | 42.02 | 23.25 | 57.56 | 300 | 37 | A | V |
| 802.11a CH 165 5825MHz | | 11650 | 66.03 | -7.97 | 74 | 65.45 | 39.8 | 18.58 | 57.8 | 204 | 129 | P | H |
| | | 11650 | 53.55 | -0.45 | 54 | 52.97 | 39.8 | 18.58 | 57.8 | 204 | 129 | A | H |
| | | 17475 | 57.86 | -16.14 | 74 | 50.09 | 42.39 | 23.36 | 57.98 | 200 | 14 | P | H |
| | | 17475 | 45.22 | -8.78 | 54 | 37.45 | 42.39 | 23.36 | 57.98 | 200 | 14 | A | H |
| | | 11655 | 62.94 | -11.06 | 74 | 62.4 | 39.76 | 18.58 | 57.8 | 251 | 156 | P | V |
| | | 11655 | 50.15 | -3.85 | 54 | 49.61 | 39.76 | 18.58 | 57.8 | 251 | 156 | A | V |
| | | 17472 | 50.14 | -23.86 | 74 | 42.37 | 42.39 | 23.36 | 57.98 | 100 | 0 | P | V |
| | | | | | | | | | | | | | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-------------------------------|------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11ac VHT20 CH 149 5745MHz | | 5712.04 | 65.27 | -8.73 | 74 | 55.3 | 32.29 | 11.84 | 34.16 | 267 | 236 | P | H | |
| | | 5724.84 | 68.68 | -9.62 | 78.3 | 58.69 | 32.31 | 11.84 | 34.16 | 267 | 236 | P | H | |
| | | 5713.16 | 52.51 | -1.49 | 54 | 42.54 | 32.29 | 11.84 | 34.16 | 267 | 236 | A | H | |
| | * | 5747 | 118.02 | - | - | 107.98 | 32.34 | 11.86 | 34.16 | 267 | 236 | P | H | |
| | * | 5747 | 108.04 | - | - | 98 | 32.34 | 11.86 | 34.16 | 267 | 236 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 5711 | 60.97 | -13.03 | 74 | 51 | 32.29 | 11.84 | 34.16 | 329 | 220 | P | V |
| | | | 5724.68 | 63.56 | -14.74 | 78.3 | 53.57 | 32.31 | 11.84 | 34.16 | 329 | 220 | P | V |
| | | | 5713 | 49.4 | -4.6 | 54 | 39.43 | 32.29 | 11.84 | 34.16 | 329 | 220 | A | V |
| | | * | 5747 | 112.71 | - | - | 102.67 | 32.34 | 11.86 | 34.16 | 329 | 220 | P | V |
| | | * | 5747 | 103.29 | - | - | 93.25 | 32.34 | 11.86 | 34.16 | 329 | 220 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |



| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|----------------------------------------|---------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-----------------|------------|
| 802.11ac VHT20 CH 157 5785MHz | | 5697.16 | 62.23 | -11.77 | 74 | 52.3 | 32.27 | 11.82 | 34.16 | 266 | 236 | P | H |
| | | 5722.92 | 63.34 | -14.96 | 78.3 | 53.35 | 32.31 | 11.84 | 34.16 | 266 | 236 | P | H |
| | | 5700.44 | 50.97 | -3.03 | 54 | 41.02 | 32.27 | 11.84 | 34.16 | 266 | 236 | A | H |
| | * | 5785 | 121.03 | - | - | 110.93 | 32.39 | 11.88 | 34.17 | 266 | 236 | P | H |
| | * | 5785 | 111.19 | - | - | 101.09 | 32.39 | 11.88 | 34.17 | 266 | 236 | A | H |
| | | 5855.28 | 60.29 | -18.01 | 78.3 | 49.93 | 32.51 | 12.03 | 34.18 | 266 | 236 | P | H |
| | | 5880.16 | 60.19 | -13.81 | 74 | 49.67 | 32.53 | 12.17 | 34.18 | 266 | 236 | P | H |
| | | 5886.56 | 49.11 | -4.89 | 54 | 38.59 | 32.53 | 12.17 | 34.18 | 266 | 236 | A | H |
| | | 5690.28 | 59.9 | -14.1 | 74 | 49.97 | 32.27 | 11.82 | 34.16 | 323 | 212 | P | V |
| | | 5718.68 | 59.34 | -18.96 | 78.3 | 49.35 | 32.31 | 11.84 | 34.16 | 323 | 212 | P | V |
| | | 5711.32 | 48.32 | -5.68 | 54 | 38.35 | 32.29 | 11.84 | 34.16 | 323 | 212 | A | V |
| | * | 5785 | 116.43 | - | - | 106.33 | 32.39 | 11.88 | 34.17 | 323 | 212 | P | V |
| | * | 5785 | 106.28 | - | - | 96.18 | 32.39 | 11.88 | 34.17 | 323 | 212 | A | V |
| | | 5851.76 | 59.59 | -18.71 | 78.3 | 49.25 | 32.48 | 12.03 | 34.17 | 323 | 212 | P | V |
| | | 5870.8 | 58.95 | -15.05 | 74 | 48.43 | 32.53 | 12.17 | 34.18 | 323 | 212 | P | V |
| | 5864.88 | 47.69 | -6.31 | 54 | 37.19 | 32.51 | 12.17 | 34.18 | 323 | 212 | A | V | |



| WiFi Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|----------------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11ac VHT20 CH 165 5825MHz | * | 5827 | 118.53 | - | - | 108.21 | 32.46 | 12.03 | 34.17 | 271 | 235 | P | H | |
| | * | 5827 | 108.74 | - | - | 98.42 | 32.46 | 12.03 | 34.17 | 271 | 235 | A | H | |
| | | 5851.68 | 71.68 | -6.62 | 78.3 | 61.34 | 32.48 | 12.03 | 34.17 | 271 | 235 | P | H | |
| | | 5860.4 | 62.3 | -11.7 | 74 | 51.8 | 32.51 | 12.17 | 34.18 | 271 | 235 | P | H | |
| | | 5865.44 | 49.56 | -4.44 | 54 | 39.06 | 32.51 | 12.17 | 34.18 | 271 | 235 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | * | 5827 | 114.59 | - | - | 104.27 | 32.46 | 12.03 | 34.17 | 316 | 219 | P | V | |
| | * | 5827 | 104.53 | - | - | 94.21 | 32.46 | 12.03 | 34.17 | 316 | 219 | A | V | |
| | | 5851.52 | 66.43 | -11.87 | 78.3 | 56.09 | 32.48 | 12.03 | 34.17 | 316 | 219 | P | V | |
| | | 5860.96 | 61.91 | -12.09 | 74 | 51.41 | 32.51 | 12.17 | 34.18 | 316 | 219 | P | V | |
| | | 5864.64 | 47.7 | -6.3 | 54 | 37.2 | 32.51 | 12.17 | 34.18 | 316 | 219 | A | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11ac VHT20 CH 149 5745MHz | | 11490 | 61.24 | -12.76 | 74 | 60.51 | 40.11 | 18.4 | 57.78 | 200 | 132 | P | H |
| | | 11490 | 47.95 | -6.05 | 54 | 47.22 | 40.11 | 18.4 | 57.78 | 200 | 132 | A | H |
| | | 17235 | 57.77 | -16.23 | 74 | 50.12 | 41.65 | 23.14 | 57.14 | 200 | 12 | P | H |
| | | 17235 | 43.82 | -10.18 | 54 | 36.17 | 41.65 | 23.14 | 57.14 | 200 | 12 | A | H |
| | | 11490 | 59.07 | -14.93 | 74 | 58.34 | 40.11 | 18.4 | 57.78 | 265 | 154 | P | V |
| | | 11490 | 46.39 | -7.61 | 54 | 45.66 | 40.11 | 18.4 | 57.78 | 265 | 154 | A | V |
| | | 17235 | 49.44 | -24.56 | 74 | 41.79 | 41.65 | 23.14 | 57.14 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11ac VHT20 CH 157 5785MHz | | 11570 | 66.6 | -7.4 | 74 | 65.96 | 39.95 | 18.49 | 57.8 | 195 | 131 | P | H |
| | | 11570 | 53.45 | -0.55 | 54 | 52.81 | 39.95 | 18.49 | 57.8 | 195 | 131 | A | H |
| | | 17355 | 59.76 | -14.24 | 74 | 52.05 | 42.02 | 23.25 | 57.56 | 200 | 14 | P | H |
| | | 17355 | 47.02 | -6.98 | 54 | 39.31 | 42.02 | 23.25 | 57.56 | 200 | 14 | A | H |
| | | 11570 | 64.04 | -9.96 | 74 | 63.4 | 39.95 | 18.49 | 57.8 | 265 | 155 | P | V |
| | | 11570 | 50.45 | -3.55 | 54 | 49.81 | 39.95 | 18.49 | 57.8 | 265 | 155 | A | V |
| | | 17352 | 50.9 | -23.1 | 74 | 43.19 | 42.02 | 23.25 | 57.56 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11ac VHT20 CH 165 5825MHz | | 11650 | 67.38 | -6.62 | 74 | 66.8 | 39.8 | 18.58 | 57.8 | 200 | 131 | P | H |
| | | 11650 | 53.06 | -0.94 | 54 | 52.48 | 39.8 | 18.58 | 57.8 | 200 | 131 | A | H |
| | | 17475 | 57.75 | -16.25 | 74 | 49.98 | 42.39 | 23.36 | 57.98 | 200 | 12 | P | H |
| | | 17475 | 45.34 | -8.66 | 54 | 37.57 | 42.39 | 23.36 | 57.98 | 200 | 12 | A | H |
| | | 11650 | 63.64 | -10.36 | 74 | 63.06 | 39.8 | 18.58 | 57.8 | 260 | 154 | P | V |
| | | 11650 | 49.7 | -4.3 | 54 | 49.12 | 39.8 | 18.58 | 57.8 | 260 | 154 | A | V |
| | | 17475 | 50.61 | -23.39 | 74 | 42.84 | 42.39 | 23.36 | 57.98 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------------|---------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11ac VHT40 CH 151 5755MHz | | 5715 | 61.68 | -12.32 | 74 | 51.71 | 32.29 | 11.84 | 34.16 | 268 | 235 | P | H |
| | | 5723.88 | 72.6 | -5.7 | 78.3 | 62.61 | 32.31 | 11.84 | 34.16 | 268 | 235 | P | H |
| | | 5715 | 51.75 | -2.25 | 54 | 41.78 | 32.29 | 11.84 | 34.16 | 268 | 235 | A | H |
| | * | 5753 | 112.77 | - | - | 102.72 | 32.36 | 11.86 | 34.17 | 268 | 235 | P | H |
| | * | 5753 | 102.67 | - | - | 92.62 | 32.36 | 11.86 | 34.17 | 268 | 235 | A | H |
| | | 5850.4 | 57.99 | -20.31 | 78.3 | 47.65 | 32.48 | 12.03 | 34.17 | 268 | 235 | P | H |
| | | 5876.16 | 58.62 | -15.38 | 74 | 48.1 | 32.53 | 12.17 | 34.18 | 268 | 235 | P | H |
| | | 5879.12 | 47.55 | -6.45 | 54 | 37.03 | 32.53 | 12.17 | 34.18 | 268 | 235 | A | H |
| | | 5712.52 | 60.02 | -13.98 | 74 | 50.05 | 32.29 | 11.84 | 34.16 | 334 | 175 | P | V |
| | | 5724.52 | 69.26 | -9.04 | 78.3 | 59.27 | 32.31 | 11.84 | 34.16 | 334 | 175 | P | V |
| | | 5705.96 | 49.21 | -4.79 | 54 | 39.24 | 32.29 | 11.84 | 34.16 | 334 | 175 | A | V |
| | * | 5753 | 108.27 | - | - | 98.22 | 32.36 | 11.86 | 34.17 | 334 | 175 | P | V |
| | * | 5753 | 98.67 | - | - | 88.62 | 32.36 | 11.86 | 34.17 | 334 | 175 | A | V |
| | | 5856.64 | 57.78 | -20.52 | 78.3 | 47.42 | 32.51 | 12.03 | 34.18 | 334 | 175 | P | V |
| | | 5862.16 | 57.8 | -16.2 | 74 | 47.3 | 32.51 | 12.17 | 34.18 | 334 | 175 | P | V |
| | 5871.52 | 47.39 | -6.61 | 54 | 36.87 | 32.53 | 12.17 | 34.18 | 334 | 175 | A | V | |



| WiFi Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|----------------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|
| 802.11ac VHT40 CH 159 5795MHz | | 5714.68 | 63.29 | -10.71 | 74 | 53.32 | 32.29 | 11.84 | 34.16 | 260 | 234 | P | H |
| | | 5724.12 | 63.89 | -14.41 | 78.3 | 53.9 | 32.31 | 11.84 | 34.16 | 260 | 234 | P | H |
| | | 5713.32 | 52.67 | -1.33 | 54 | 42.7 | 32.29 | 11.84 | 34.16 | 260 | 234 | A | H |
| | * | 5793 | 118.4 | - | - | 108.28 | 32.41 | 11.88 | 34.17 | 260 | 234 | P | H |
| | * | 5793 | 108.56 | - | - | 98.44 | 32.41 | 11.88 | 34.17 | 260 | 234 | A | H |
| | | 5851.2 | 68.8 | -9.5 | 78.3 | 58.46 | 32.48 | 12.03 | 34.17 | 260 | 234 | P | H |
| | | 5867.52 | 64.96 | -9.04 | 74 | 54.46 | 32.51 | 12.17 | 34.18 | 260 | 234 | P | H |
| | | 5868.32 | 53.07 | -0.93 | 54 | 42.57 | 32.51 | 12.17 | 34.18 | 260 | 234 | A | H |
| | | 5711.88 | 61.18 | -12.82 | 74 | 51.21 | 32.29 | 11.84 | 34.16 | 247 | 170 | P | V |
| | | 5724.28 | 61.4 | -16.9 | 78.3 | 51.41 | 32.31 | 11.84 | 34.16 | 247 | 170 | P | V |
| | | 5712.28 | 50.12 | -3.88 | 54 | 40.15 | 32.29 | 11.84 | 34.16 | 247 | 170 | A | V |
| | * | 5793 | 115.3 | - | - | 105.18 | 32.41 | 11.88 | 34.17 | 247 | 170 | P | V |
| | * | 5793 | 105.9 | - | - | 95.78 | 32.41 | 11.88 | 34.17 | 247 | 170 | A | V |
| | | 5850.16 | 65.94 | -12.36 | 78.3 | 55.6 | 32.48 | 12.03 | 34.17 | 247 | 170 | P | V |
| | | 5865.44 | 61.29 | -12.71 | 74 | 50.79 | 32.51 | 12.17 | 34.18 | 247 | 170 | P | V |
| | 5869.52 | 50.67 | -3.33 | 54 | 40.17 | 32.51 | 12.17 | 34.18 | 247 | 170 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11ac VHT40 CH 151 5755MHz | | 11510 | 55.35 | -18.65 | 74 | 54.6 | 40.1 | 18.45 | 57.8 | 200 | 131 | P | H | |
| | | 11510 | 43.28 | -10.72 | 54 | 42.53 | 40.1 | 18.45 | 57.8 | 200 | 131 | A | H | |
| | | 17265 | 49.35 | -24.65 | 74 | 41.69 | 41.75 | 23.17 | 57.26 | 100 | 0 | P | H | |
| | | 11510 | 50.25 | -23.75 | 74 | 49.5 | 40.1 | 18.45 | 57.8 | 100 | 0 | P | H | |
| | | 17265 | 49.42 | -24.58 | 74 | 41.76 | 41.75 | 23.17 | 57.26 | 100 | 0 | P | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11ac VHT40 CH 159 5795MHz | | 11590 | 65.8 | -8.2 | 74 | 65.15 | 39.91 | 18.54 | 57.8 | 200 | 130 | P | H | |
| | | 11590 | 52.78 | -1.22 | 54 | 52.13 | 39.91 | 18.54 | 57.8 | 200 | 130 | A | H | |
| | | 17385 | 57.34 | -16.66 | 74 | 49.6 | 42.13 | 23.29 | 57.68 | 200 | 15 | P | H | |
| | | 17385 | 45.16 | -8.84 | 54 | 37.42 | 42.13 | 23.29 | 57.68 | 200 | 15 | A | H | |
| | | 11590 | 61.93 | -12.07 | 74 | 61.28 | 39.91 | 18.54 | 57.8 | 250 | 153 | P | V | |
| | | 11590 | 49.18 | -4.82 | 54 | 48.53 | 39.91 | 18.54 | 57.8 | 250 | 153 | A | V | |
| | | 17385 | 49.46 | -24.54 | 74 | 41.72 | 42.13 | 23.29 | 57.68 | 100 | 0 | P | V | |
| | | | | | | | | | | | | | V | |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-------------------|--------------|---|
| 802.11ac VHT80 CH 155 5775MHz | | 5714.84 | 66.9 | -1.4 | 68.3 | 56.93 | 32.29 | 11.84 | 34.16 | 368 | 238 | P | H | |
| | | 5724.36 | 72.68 | -5.62 | 78.3 | 62.69 | 32.31 | 11.84 | 34.16 | 368 | 238 | P | H | |
| | * | 5773 | 105.16 | - | - | 95.08 | 32.39 | 11.86 | 34.17 | 368 | 238 | P | H | |
| | * | 5773 | 96.89 | - | - | 86.81 | 32.39 | 11.86 | 34.17 | 368 | 238 | A | H | |
| | | 5857.12 | 60.17 | -18.13 | 78.3 | 49.81 | 32.51 | 12.03 | 34.18 | 368 | 238 | P | H | |
| | | 5880.32 | 59.29 | -9.01 | 68.3 | 48.77 | 32.53 | 12.17 | 34.18 | 368 | 238 | P | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 5713 | 65.36 | -2.94 | 68.3 | 55.39 | 32.29 | 11.84 | 34.16 | 328 | 209 | P | V |
| | | | 5724.12 | 69.76 | -8.54 | 78.3 | 59.77 | 32.31 | 11.84 | 34.16 | 328 | 209 | P | V |
| | * | | 5773 | 102.74 | - | - | 92.66 | 32.39 | 11.86 | 34.17 | 328 | 209 | P | V |
| | * | | 5773 | 91.32 | - | - | 81.24 | 32.39 | 11.86 | 34.17 | 328 | 209 | A | V |
| | | | 5850.72 | 59.03 | -19.27 | 78.3 | 48.69 | 32.48 | 12.03 | 34.17 | 328 | 209 | P | V |
| | | | 5861.04 | 58.36 | -9.94 | 68.3 | 47.86 | 32.51 | 12.17 | 34.18 | 328 | 209 | P | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
|-------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|-------------------|-----------------------|---------------------|-------------------------|-------------------|----------------------|----------------|-------------------|-----------------|------------|---|
| 802.11ac VHT80 CH 155 5775MHz | | 11550 | 47.08 | -26.92 | 74 | 46.4 | 39.99 | 18.49 | 57.8 | 100 | 0 | P | H | |
| | | 17325 | 49.61 | -24.39 | 74 | 41.93 | 41.91 | 23.21 | 57.44 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 11550 | 46.89 | -27.11 | 74 | 46.21 | 39.99 | 18.49 | 57.8 | 100 | 0 | P | V |
| | | | 17325 | 49.32 | -24.68 | 74 | 41.64 | 41.91 | 23.21 | 57.44 | 100 | 0 | P | V |
| | | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Emission below 1GHz

5GHz WIFI 802.11a Adapter mode (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|-----------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1+2 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 5GHz 802.11a LF | | 94.26 | 37.06 | -6.44 | 43.5 | 51.14 | 15.28 | 1.06 | 30.42 | | | P | H | |
| | | 100.2 | 37.55 | -5.95 | 43.5 | 50.53 | 16 | 1.43 | 30.41 | 117 | 48 | P | H | |
| | | 150.69 | 31.65 | -11.85 | 43.5 | 42.75 | 17.5 | 1.75 | 30.35 | | | P | H | |
| | | 374.9 | 31.7 | -14.3 | 46 | 37.71 | 21.61 | 2.44 | 30.06 | | | P | H | |
| | | 624.8 | 35.53 | -10.47 | 46 | 35.85 | 25.69 | 3.61 | 29.62 | | | P | H | |
| | | 836.9 | 34.28 | -11.72 | 46 | 30.95 | 28.4 | 4.28 | 29.35 | | | P | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 40.26 | 36.3 | -3.7 | 40 | 46.12 | 19.74 | 0.78 | 30.34 | 100 | 92 | QP | V |
| | | | 56.73 | 36.41 | -3.59 | 40 | 53.36 | 12.73 | 0.78 | 30.46 | | | P | V |
| | | | 74.01 | 35.53 | -4.47 | 40 | 52.1 | 12.81 | 1.06 | 30.44 | | | P | V |
| | | | 328 | 27.93 | -18.07 | 46 | 35.37 | 20.34 | 2.34 | 30.12 | | | P | V |
| | | | 624.8 | 33.75 | -12.25 | 46 | 34.07 | 25.69 | 3.61 | 29.62 | | | P | V |
| | | | 836.9 | 34.47 | -11.53 | 46 | 31.14 | 28.4 | 4.28 | 29.35 | | | P | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | | |



Emission below 1GHz

5GHz WIFI 802.11a POE mode (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|-----------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1+2 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 5GHz 802.11a LF | | 72.66 | 28.21 | -11.79 | 40 | 44.91 | 12.68 | 1.06 | 30.44 | 100 | 45 | P | H | |
| | | 94.8 | 29.39 | -14.11 | 43.5 | 43.35 | 15.4 | 1.06 | 30.42 | | | P | H | |
| | | 112.08 | 30.61 | -12.89 | 43.5 | 42.34 | 17.24 | 1.43 | 30.4 | | | P | H | |
| | | 374.9 | 26.78 | -19.22 | 46 | 32.79 | 21.61 | 2.44 | 30.06 | | | P | H | |
| | | 800.5 | 29.63 | -16.37 | 46 | 27.09 | 27.8 | 4.14 | 29.4 | | | P | H | |
| | | 940.5 | 33.05 | -12.95 | 46 | 27.38 | 30.05 | 4.75 | 29.13 | | | P | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 38.37 | 36.8 | -3.2 | 40 | 45.47 | 20.86 | 0.78 | 30.31 | 100 | 122 | P | V |
| | | | 49.17 | 32.39 | -7.61 | 40 | 46.75 | 15.33 | 0.78 | 30.47 | | | P | V |
| | | | 73.74 | 32.04 | -7.96 | 40 | 48.61 | 12.81 | 1.06 | 30.44 | | | P | V |
| | | | 374.9 | 27.59 | -18.41 | 46 | 33.6 | 21.61 | 2.44 | 30.06 | | | P | V |
| | | | 500.2 | 27.01 | -18.99 | 46 | 29.63 | 24 | 3.19 | 29.81 | | | P | V |
| | | | 736.1 | 29.2 | -16.8 | 46 | 27.51 | 27.27 | 3.89 | 29.47 | | | P | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | | |



Note symbol

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



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

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11b | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | P | H |
| CH 01 | | | | | | | | | | | | | |
| 2412MHz | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | A | H |

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

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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