



Appendix B. Radiated Spurious Emission

| | | | |
|-----------------|----------|---------------------|---------|
| Test Engineer : | Lewis He | Temperature : | 23~24°C |
| | | Relative Humidity : | 50~51% |

15E Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 802.11a CH 149 5745MHz | | 5714.6 | 53.41 | -20.59 | 74 | 45.31 | 32.52 | 32.66 | 8.24 | 355 | 38 | P | H | |
| | | 5723.48 | 60.84 | -17.46 | 78.3 | 52.64 | 32.53 | 32.66 | 8.33 | 355 | 38 | P | H | |
| | | 5714.52 | 39.72 | -14.28 | 54 | 31.62 | 32.52 | 32.66 | 8.24 | 355 | 38 | A | H | |
| | * | 5744 | 101.55 | - | - | 93.35 | 32.54 | 32.67 | 8.33 | 355 | 38 | P | H | |
| | * | 5744 | 92.91 | - | - | 84.71 | 32.54 | 32.67 | 8.33 | 355 | 38 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 5713 | 53.25 | -20.75 | 74 | 45.15 | 32.52 | 32.66 | 8.24 | 315 | 243 | P | V |
| | | | 5722.28 | 62.8 | -15.5 | 78.3 | 54.6 | 32.53 | 32.66 | 8.33 | 315 | 243 | P | V |
| | | | 5713.16 | 40.66 | -13.34 | 54 | 32.56 | 32.52 | 32.66 | 8.24 | 315 | 243 | A | V |
| | * | | 5741 | 101.65 | - | - | 93.45 | 32.54 | 32.67 | 8.33 | 315 | 243 | P | V |
| | * | | 5741 | 93.67 | - | - | 85.47 | 32.54 | 32.67 | 8.33 | 315 | 243 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |



| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11a CH 157 5785MHz | | 5703.16 | 50.66 | -23.34 | 74 | 42.55 | 32.52 | 32.65 | 8.24 | 137 | 299 | P | H |
| | | 5718.36 | 49.94 | -28.36 | 78.3 | 41.83 | 32.53 | 32.66 | 8.24 | 137 | 299 | P | H |
| | | 5707.88 | 39.77 | -14.23 | 54 | 31.67 | 32.52 | 32.66 | 8.24 | 137 | 299 | A | H |
| | * | 5789 | 100.65 | - | - | 92.33 | 32.58 | 32.68 | 8.42 | 137 | 299 | P | H |
| | * | 5789 | 93.1 | - | - | 84.78 | 32.58 | 32.68 | 8.42 | 137 | 299 | A | H |
| | | 5857.84 | 50.95 | -27.35 | 78.3 | 41.99 | 32.62 | 32.71 | 9.05 | 137 | 299 | P | H |
| | | 5860.64 | 51.71 | -22.29 | 74 | 42.75 | 32.62 | 32.71 | 9.05 | 137 | 299 | P | H |
| | | 5863.04 | 40.5 | -13.5 | 54 | 31.54 | 32.62 | 32.71 | 9.05 | 137 | 299 | A | H |
| | | 5709 | 50.93 | -23.07 | 74 | 42.83 | 32.52 | 32.66 | 8.24 | 307 | 250 | P | V |
| | | 5719.16 | 50.39 | -27.91 | 78.3 | 42.28 | 32.53 | 32.66 | 8.24 | 307 | 250 | P | V |
| | | 5707.4 | 39.7 | -14.3 | 54 | 31.6 | 32.52 | 32.66 | 8.24 | 307 | 250 | A | V |
| | * | 5785 | 101.54 | - | - | 93.22 | 32.58 | 32.68 | 8.42 | 307 | 250 | P | V |
| | * | 5785 | 93.27 | - | - | 84.96 | 32.57 | 32.68 | 8.42 | 307 | 250 | A | V |
| | | 5858.48 | 51.48 | -26.82 | 78.3 | 42.52 | 32.62 | 32.71 | 9.05 | 307 | 250 | P | V |
| | | 5864.56 | 52.25 | -21.75 | 74 | 43.29 | 32.62 | 32.71 | 9.05 | 307 | 250 | P | V |
| | | 5862.16 | 40.55 | -13.45 | 54 | 31.59 | 32.62 | 32.71 | 9.05 | 307 | 250 | A | V |



| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|------------------------------|--------|---------------------------------------------------------------------------------------------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 802.11a CH 165 5825MHz | * | 5827 | 100.86 | - | - | 92.21 | 32.6 | 32.69 | 8.74 | 323 | 40 | P | H | |
| | * | 5827 | 93.26 | - | - | 84.61 | 32.6 | 32.69 | 8.74 | 323 | 40 | A | H | |
| | | 5852.64 | 51.31 | -26.99 | 78.3 | 42.35 | 32.61 | 32.7 | 9.05 | 323 | 40 | P | H | |
| | | 5861.28 | 52.08 | -21.92 | 74 | 43.12 | 32.62 | 32.71 | 9.05 | 323 | 40 | P | H | |
| | | 5860 | 40.44 | -13.56 | 54 | 31.48 | 32.62 | 32.71 | 9.05 | 323 | 40 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | * | 5825 | 99.35 | - | - | 90.71 | 32.59 | 32.69 | 8.74 | 323 | 249 | P | V | |
| | * | 5825 | 92.7 | - | - | 84.05 | 32.6 | 32.69 | 8.74 | 323 | 249 | A | V | |
| | | 5851.76 | 53.51 | -24.79 | 78.3 | 44.55 | 32.61 | 32.7 | 9.05 | 323 | 249 | P | V | |
| | | 5867.84 | 52.5 | -21.5 | 74 | 43.54 | 32.62 | 32.71 | 9.05 | 323 | 249 | P | V | |
| | | 5861.44 | 40.37 | -13.63 | 54 | 31.41 | 32.62 | 32.71 | 9.05 | 323 | 249 | A | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| | Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 802.11a CH 149 5745MHz | | 11490 | 37.69 | -36.31 | 74 | 44.17 | 40.01 | 62.8 | 16.31 | 100 | 0 | P | H | |
| | | 17235 | 48.2 | -25.8 | 74 | 38.52 | 41.05 | 60.14 | 28.77 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | 11490 | 37.94 | -36.06 | 74 | 44.42 | 40.01 | 62.8 | 16.31 | 100 | 0 | P | V | |
| | | 17235 | 47.79 | -26.21 | 74 | 38.11 | 41.05 | 60.14 | 28.77 | 100 | 0 | P | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11a CH 157 5785MHz | | 11571 | 36.22 | -37.78 | 74 | 42.72 | 39.88 | 62.74 | 16.36 | 100 | 0 | P | H | |
| | | 17355 | 47.54 | -26.46 | 74 | 37.65 | 41.38 | 60.21 | 28.72 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | 11571 | 36.03 | -37.97 | 74 | 42.53 | 39.88 | 62.74 | 16.36 | 100 | 0 | P | V | |
| | | 17355 | 46.84 | -27.16 | 74 | 36.95 | 41.38 | 60.21 | 28.72 | 100 | 0 | P | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11a CH 165 5825MHz | | 11649 | 39.22 | -34.78 | 74 | 45.76 | 39.75 | 62.69 | 16.4 | 100 | 0 | P | H | |
| | | 17475 | 47.43 | -26.57 | 74 | 37.34 | 41.71 | 60.28 | 28.66 | 100 | 0 | P | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | 11649 | 37.6 | -36.4 | 74 | 44.14 | 39.75 | 62.69 | 16.4 | 100 | 0 | P | V | |
| | | 17475 | 46.92 | -27.08 | 74 | 36.83 | 41.71 | 60.28 | 28.66 | 100 | 0 | P | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. | |
|--------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 802.11n HT20 CH 149 5745MHz | | 5709.24 | 53.64 | -20.36 | 74 | 45.54 | 32.52 | 32.66 | 8.24 | 120 | 296 | P | H | |
| | | 5722.84 | 56.74 | -21.56 | 78.3 | 48.54 | 32.53 | 32.66 | 8.33 | 120 | 296 | P | H | |
| | | 5713.56 | 41.13 | -12.87 | 54 | 33.03 | 32.52 | 32.66 | 8.24 | 120 | 296 | A | H | |
| | * | 5745 | 100.74 | - | - | 92.54 | 32.54 | 32.67 | 8.33 | 120 | 296 | P | H | |
| | * | 5745 | 91.71 | - | - | 83.51 | 32.54 | 32.67 | 8.33 | 120 | 296 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | |
| | | | 5690.68 | 51.81 | -22.19 | 74 | 43.71 | 32.51 | 32.65 | 8.24 | 315 | 250 | P | V |
| | | | 5722.92 | 62.38 | -15.92 | 78.3 | 54.18 | 32.53 | 32.66 | 8.33 | 315 | 250 | P | V |
| | | | 5713.8 | 41.32 | -12.68 | 54 | 33.22 | 32.52 | 32.66 | 8.24 | 315 | 250 | A | V |
| | * | | 5745 | 101.39 | - | - | 93.19 | 32.54 | 32.67 | 8.33 | 315 | 250 | P | V |
| | * | | 5745 | 91.99 | - | - | 83.79 | 32.54 | 32.67 | 8.33 | 315 | 250 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



| 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) |
| 802.11n HT20 CH 157 5785MHz | | 5705.48 | 51.85 | -22.15 | 74 | 43.75 | 32.52 | 32.66 | 8.24 | 100 | 298 | P | H |
| | | 5716.36 | 51.04 | -27.26 | 78.3 | 42.94 | 32.52 | 32.66 | 8.24 | 100 | 298 | P | H |
| | | 5712.68 | 40.56 | -13.44 | 54 | 32.46 | 32.52 | 32.66 | 8.24 | 100 | 298 | A | H |
| | * | 5785 | 101.53 | - | - | 93.22 | 32.57 | 32.68 | 8.42 | 100 | 298 | P | H |
| | * | 5785 | 91.93 | - | - | 83.62 | 32.57 | 32.68 | 8.42 | 100 | 298 | A | H |
| | | 5858.48 | 51.85 | -26.45 | 78.3 | 42.89 | 32.62 | 32.71 | 9.05 | 100 | 298 | P | H |
| | | 5889.68 | 52.67 | -21.33 | 74 | 43.38 | 32.64 | 32.72 | 9.37 | 100 | 298 | P | H |
| | | 5868.4 | 40.99 | -13.01 | 54 | 32.03 | 32.62 | 32.71 | 9.05 | 100 | 298 | A | H |
| | | 5704.6 | 51.22 | -22.78 | 74 | 43.11 | 32.52 | 32.65 | 8.24 | 315 | 253 | P | V |
| | | 5724.12 | 51.84 | -26.46 | 78.3 | 43.64 | 32.53 | 32.66 | 8.33 | 315 | 253 | P | V |
| | | 5712.6 | 39.95 | -14.05 | 54 | 31.85 | 32.52 | 32.66 | 8.24 | 315 | 253 | A | V |
| | * | 5786 | 101.39 | - | - | 93.07 | 32.58 | 32.68 | 8.42 | 315 | 253 | P | V |
| | * | 5786 | 91.69 | - | - | 83.37 | 32.58 | 32.68 | 8.42 | 315 | 253 | A | V |
| | | 5851.44 | 51.39 | -26.91 | 78.3 | 42.43 | 32.61 | 32.7 | 9.05 | 315 | 253 | P | V |
| | | 5860.88 | 52.53 | -21.47 | 74 | 43.57 | 32.62 | 32.71 | 9.05 | 315 | 253 | P | V |
| | 5863.92 | 40.65 | -13.35 | 54 | 31.69 | 32.62 | 32.71 | 9.05 | 315 | 253 | A | V | |



| 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) | |
| 802.11n HT20 CH 165 5825MHz | * | 5825 | 101.27 | - | - | 92.62 | 32.6 | 32.69 | 8.74 | 100 | 43 | P | H | |
| | * | 5825 | 91.87 | - | - | 83.22 | 32.6 | 32.69 | 8.74 | 100 | 43 | A | H | |
| | | 5858.72 | 53.85 | -24.45 | 78.3 | 44.89 | 32.62 | 32.71 | 9.05 | 100 | 43 | P | H | |
| | | 5870.8 | 52.81 | -21.19 | 74 | 43.84 | 32.63 | 32.71 | 9.05 | 100 | 43 | P | H | |
| | | 5867.28 | 41.18 | -12.82 | 54 | 32.22 | 32.62 | 32.71 | 9.05 | 100 | 43 | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | * | 5825 | 101.27 | - | - | 92.62 | 32.6 | 32.69 | 8.74 | 294 | 246 | P | V | |
| | * | 5825 | 92.13 | - | - | 83.48 | 32.6 | 32.69 | 8.74 | 294 | 246 | A | V | |
| | | 5851.92 | 53.17 | -25.13 | 78.3 | 44.21 | 32.61 | 32.7 | 9.05 | 294 | 246 | P | V | |
| | | 5860 | 52.25 | -21.75 | 74 | 43.29 | 32.62 | 32.71 | 9.05 | 294 | 246 | P | V | |
| | | 5860.48 | 40.87 | -13.13 | 54 | 31.91 | 32.62 | 32.71 | 9.05 | 294 | 246 | A | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|--------------------------------------|--------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n HT20 CH 149 5745MHz | | 11490 | 39.96 | -34.04 | 74 | 46.44 | 40.01 | 62.8 | 16.31 | 100 | 0 | P | H |
| | | 17235 | 46.05 | -27.95 | 74 | 36.37 | 41.05 | 60.14 | 28.77 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11490 | 39.14 | -34.86 | 74 | 45.62 | 40.01 | 62.8 | 16.31 | 100 | 0 | P | V |
| | | 17235 | 46.57 | -27.43 | 74 | 36.89 | 41.05 | 60.14 | 28.77 | 100 | 0 | P | V |
| | | | | | | | | | | | | | |
| 802.11n HT20 CH 157 5785MHz | | 11570 | 38.58 | -35.42 | 74 | 45.08 | 39.88 | 62.74 | 16.36 | 100 | 0 | P | H |
| | | 17355 | 44.05 | -29.95 | 74 | 34.16 | 41.38 | 60.21 | 28.72 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11570 | 37.37 | -36.63 | 74 | 43.87 | 39.88 | 62.74 | 16.36 | 100 | 0 | P | V |
| | | 17355 | 44.74 | -29.26 | 74 | 34.85 | 41.38 | 60.21 | 28.72 | 100 | 0 | P | V |
| | | | | | | | | | | | | | |
| 802.11n HT20 CH 165 5825MHz | | 11650 | 38.75 | -35.25 | 74 | 45.29 | 39.75 | 62.69 | 16.4 | 100 | 0 | P | H |
| | | 17475 | 42.6 | -31.4 | 74 | 32.51 | 41.71 | 60.28 | 28.66 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11650 | 36.91 | -37.09 | 74 | 43.45 | 39.75 | 62.69 | 16.4 | 100 | 0 | P | V |
| | | 17475 | 42.43 | -31.57 | 74 | 32.34 | 41.71 | 60.28 | 28.66 | 100 | 0 | P | V |
| | | | | | | | | | | | | | |
| Remark | 1. No other spurious found. | | | | | | | | | | | | |
| | 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|--------------------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n HT40 CH 151 5755MHz | | 5714.84 | 60.02 | -13.98 | 74 | 51.92 | 32.52 | 32.66 | 8.24 | 100 | 46 | P | H |
| | | 5719.72 | 64.64 | -13.66 | 78.3 | 56.53 | 32.53 | 32.66 | 8.24 | 100 | 46 | P | H |
| | | 5715 | 44.52 | -9.48 | 54 | 36.42 | 32.52 | 32.66 | 8.24 | 100 | 46 | A | H |
| | * | 5755 | 98.14 | - | - | 89.92 | 32.56 | 32.67 | 8.33 | 100 | 46 | P | H |
| | * | 5755 | 88.76 | - | - | 80.54 | 32.56 | 32.67 | 8.33 | 100 | 46 | A | H |
| | | 5851 | 51.73 | -26.57 | 78.3 | 42.77 | 32.61 | 32.7 | 9.05 | 100 | 46 | P | H |
| | | 5890 | 51.73 | -22.27 | 74 | 42.44 | 32.64 | 32.72 | 9.37 | 100 | 46 | P | H |
| | | 5871.44 | 40.45 | -13.55 | 54 | 31.48 | 32.63 | 32.71 | 9.05 | 100 | 46 | A | H |
| | | 5713 | 57.3 | -16.7 | 74 | 49.2 | 32.52 | 32.66 | 8.24 | 330 | 263 | P | V |
| | | 5717.88 | 59.81 | -18.49 | 78.3 | 51.7 | 32.53 | 32.66 | 8.24 | 330 | 263 | P | V |
| | | 5714.84 | 43.45 | -10.55 | 54 | 35.35 | 32.52 | 32.66 | 8.24 | 330 | 263 | A | V |
| | * | 5755 | 98.19 | - | - | 89.97 | 32.56 | 32.67 | 8.33 | 330 | 263 | P | V |
| | * | 5755 | 89.06 | - | - | 80.84 | 32.56 | 32.67 | 8.33 | 330 | 263 | A | V |
| | | 5850.32 | 52.03 | -26.27 | 78.3 | 43.07 | 32.61 | 32.7 | 9.05 | 330 | 263 | P | V |
| | | 5877.76 | 51.56 | -22.44 | 74 | 42.59 | 32.63 | 32.71 | 9.05 | 330 | 263 | P | V |
| | 5879 | 40.15 | -13.85 | 54 | 31.18 | 32.63 | 32.71 | 9.05 | 330 | 263 | A | V | |



| 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) |
| 802.11n HT40 CH 159 5795MHz | | 5712.04 | 51.3 | -22.7 | 74 | 43.2 | 32.52 | 32.66 | 8.24 | 100 | 350 | P | H |
| | | 5720.36 | 49.78 | -28.52 | 78.3 | 41.67 | 32.53 | 32.66 | 8.24 | 100 | 350 | P | H |
| | | 5710.28 | 39.74 | -14.26 | 54 | 31.64 | 32.52 | 32.66 | 8.24 | 100 | 350 | A | H |
| | * | 5795 | 98.76 | - | - | 90.44 | 32.58 | 32.68 | 8.42 | 100 | 350 | P | H |
| | * | 5795 | 89.01 | - | - | 80.69 | 32.58 | 32.68 | 8.42 | 100 | 350 | A | H |
| | | 5850.32 | 53.6 | -24.7 | 78.3 | 44.64 | 32.61 | 32.7 | 9.05 | 100 | 350 | P | H |
| | | 5863.04 | 51.8 | -22.2 | 74 | 42.84 | 32.62 | 32.71 | 9.05 | 100 | 350 | P | H |
| | | 5860.64 | 41.05 | -12.95 | 54 | 32.09 | 32.62 | 32.71 | 9.05 | 100 | 350 | A | H |
| | | 5709 | 52.92 | -21.08 | 74 | 44.82 | 32.52 | 32.66 | 8.24 | 310 | 255 | P | V |
| | | 5722.28 | 49.78 | -28.52 | 78.3 | 41.58 | 32.53 | 32.66 | 8.33 | 310 | 255 | P | V |
| | | 5714.36 | 39.86 | -14.14 | 54 | 31.76 | 32.52 | 32.66 | 8.24 | 310 | 255 | A | V |
| | * | 5793 | 98.06 | - | - | 89.74 | 32.58 | 32.68 | 8.42 | 310 | 255 | P | V |
| | * | 5793 | 88.26 | - | - | 79.94 | 32.58 | 32.68 | 8.42 | 310 | 255 | A | V |
| | | 5850.72 | 51.58 | -26.72 | 78.3 | 42.62 | 32.61 | 32.7 | 9.05 | 310 | 255 | P | V |
| | | 5861.12 | 51.3 | -22.7 | 74 | 42.34 | 32.62 | 32.71 | 9.05 | 310 | 255 | P | V |
| | 5864.64 | 40.37 | -13.63 | 54 | 31.41 | 32.62 | 32.71 | 9.05 | 310 | 255 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|--------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n HT40 CH 151 5755MHz | | 11510 | 39.26 | -34.74 | 74 | 45.75 | 40 | 62.8 | 16.31 | 100 | 0 | P | H |
| | | 17265 | 45.35 | -28.65 | 74 | 35.59 | 41.15 | 60.16 | 28.77 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11n HT40 CH 159 5795MHz | | 11510 | 36.91 | -37.09 | 74 | 43.4 | 40 | 62.8 | 16.31 | 100 | 0 | P | V |
| | | 17265 | 45.56 | -28.44 | 74 | 35.8 | 41.15 | 60.16 | 28.77 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11n HT40 CH 159 5795MHz | | 11590 | 36.75 | -37.25 | 74 | 43.28 | 39.84 | 62.73 | 16.36 | 100 | 0 | P | H |
| | | 17385 | 44.02 | -29.98 | 74 | 34.06 | 41.47 | 60.23 | 28.72 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11n HT40 CH 159 5795MHz | | 11590 | 35.18 | -38.82 | 74 | 41.71 | 39.84 | 62.73 | 16.36 | 100 | 0 | P | V |
| | | 17385 | 43.07 | -30.93 | 74 | 33.11 | 41.47 | 60.23 | 28.72 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac VHT80 CH 155 5775MHz | | 5699.64 | 56.01 | -17.99 | 74 | 47.91 | 32.51 | 32.65 | 8.24 | 100 | 38 | P | H |
| | | 5722.76 | 52.65 | -25.65 | 78.3 | 44.45 | 32.53 | 32.66 | 8.33 | 100 | 38 | P | H |
| | | 5700.36 | 41.69 | -12.31 | 54 | 33.59 | 32.51 | 32.65 | 8.24 | 100 | 38 | A | H |
| | * | 5773 | 94.98 | - | - | 86.66 | 32.57 | 32.67 | 8.42 | 100 | 38 | P | H |
| | * | 5773 | 86.34 | - | - | 78.02 | 32.57 | 32.67 | 8.42 | 100 | 38 | A | H |
| | | 5858.08 | 54.63 | -23.67 | 78.3 | 45.67 | 32.62 | 32.71 | 9.05 | 100 | 38 | P | H |
| | | 5861.04 | 52.1 | -21.9 | 74 | 43.14 | 32.62 | 32.71 | 9.05 | 100 | 38 | P | H |
| | | 5862.8 | 41.58 | -12.42 | 54 | 32.62 | 32.62 | 32.71 | 9.05 | 100 | 38 | A | H |
| | | 5697.16 | 58.86 | -15.14 | 74 | 50.76 | 32.51 | 32.65 | 8.24 | 314 | 249 | P | V |
| | | 5723.24 | 53.57 | -24.73 | 78.3 | 45.37 | 32.53 | 32.66 | 8.33 | 314 | 249 | P | V |
| | | 5705.24 | 41.01 | -12.99 | 54 | 32.91 | 32.52 | 32.66 | 8.24 | 314 | 249 | A | V |
| | * | 5773 | 94.84 | - | - | 86.52 | 32.57 | 32.67 | 8.42 | 314 | 249 | P | V |
| | * | 5773 | 86.13 | - | - | 77.81 | 32.57 | 32.67 | 8.42 | 314 | 249 | A | V |
| | | 5858.88 | 52.04 | -26.26 | 78.3 | 43.08 | 32.62 | 32.71 | 9.05 | 314 | 249 | P | V |
| | | 5861.52 | 52.69 | -21.31 | 74 | 43.73 | 32.62 | 32.71 | 9.05 | 314 | 249 | P | V |
| | 5860.08 | 40.84 | -13.16 | 54 | 31.88 | 32.62 | 32.71 | 9.05 | 314 | 249 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac VHT80 | | 11550 | 36.59 | -37.41 | 74 | 43.11 | 39.91 | 62.76 | 16.33 | 100 | 0 | P | H |
| | | 17325 | 45.56 | -28.44 | 74 | 35.72 | 41.29 | 60.19 | 28.74 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| CH 155 5775MHz | | 11550 | 36.16 | -37.84 | 74 | 42.68 | 39.91 | 62.76 | 16.33 | 100 | 0 | P | V |
| | | 17325 | 44.72 | -29.28 | 74 | 34.88 | 41.29 | 60.19 | 28.74 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



15E 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 802.11a LF | | 41.07 | 28.66 | -11.34 | 40 | 46.79 | 13.94 | 32.8 | 0.73 | 100 | 0 | P | H | |
| | | 133.68 | 29.8 | -13.7 | 43.5 | 49.04 | 11.96 | 32.66 | 1.46 | | | P | H | |
| | | 139.35 | 30.52 | -12.98 | 43.5 | 49.83 | 11.9 | 32.67 | 1.46 | | | P | H | |
| | | 775.3 | 22.79 | -23.21 | 46 | 30.59 | 21.85 | 32.91 | 3.26 | | | P | H | |
| | | 861.4 | 23.86 | -22.14 | 46 | 30.36 | 22.66 | 32.53 | 3.37 | | | P | H | |
| | | 985.3 | 26.37 | -27.63 | 54 | 29.75 | 24.16 | 31.38 | 3.84 | | | P | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 41.61 | 34.98 | -5.02 | 40 | 53.67 | 13.38 | 32.8 | 0.73 | 100 | 55 | QP | V |
| | | | 41.61 | 37.7 | -2.3 | 40 | 56.39 | 13.38 | 32.8 | 0.73 | 100 | 55 | P | V |
| | | | 94.26 | 26.69 | -16.81 | 43.5 | 48.41 | 9.68 | 32.65 | 1.25 | | | P | V |
| | | | 148.26 | 28.33 | -15.17 | 43.5 | 47.9 | 11.65 | 32.68 | 1.46 | | | P | V |
| | | | 709.5 | 21.87 | -24.13 | 46 | 31.01 | 20.8 | 32.98 | 3.04 | | | P | V |
| | | | 819.4 | 23.7 | -22.3 | 46 | 30.89 | 22.26 | 32.77 | 3.32 | | | P | V |
| | | | 965.7 | 25.76 | -28.24 | 54 | 29.27 | 24.23 | 31.58 | 3.84 | | | P | 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 per 15.209(c). |
| ! | 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 | | (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".