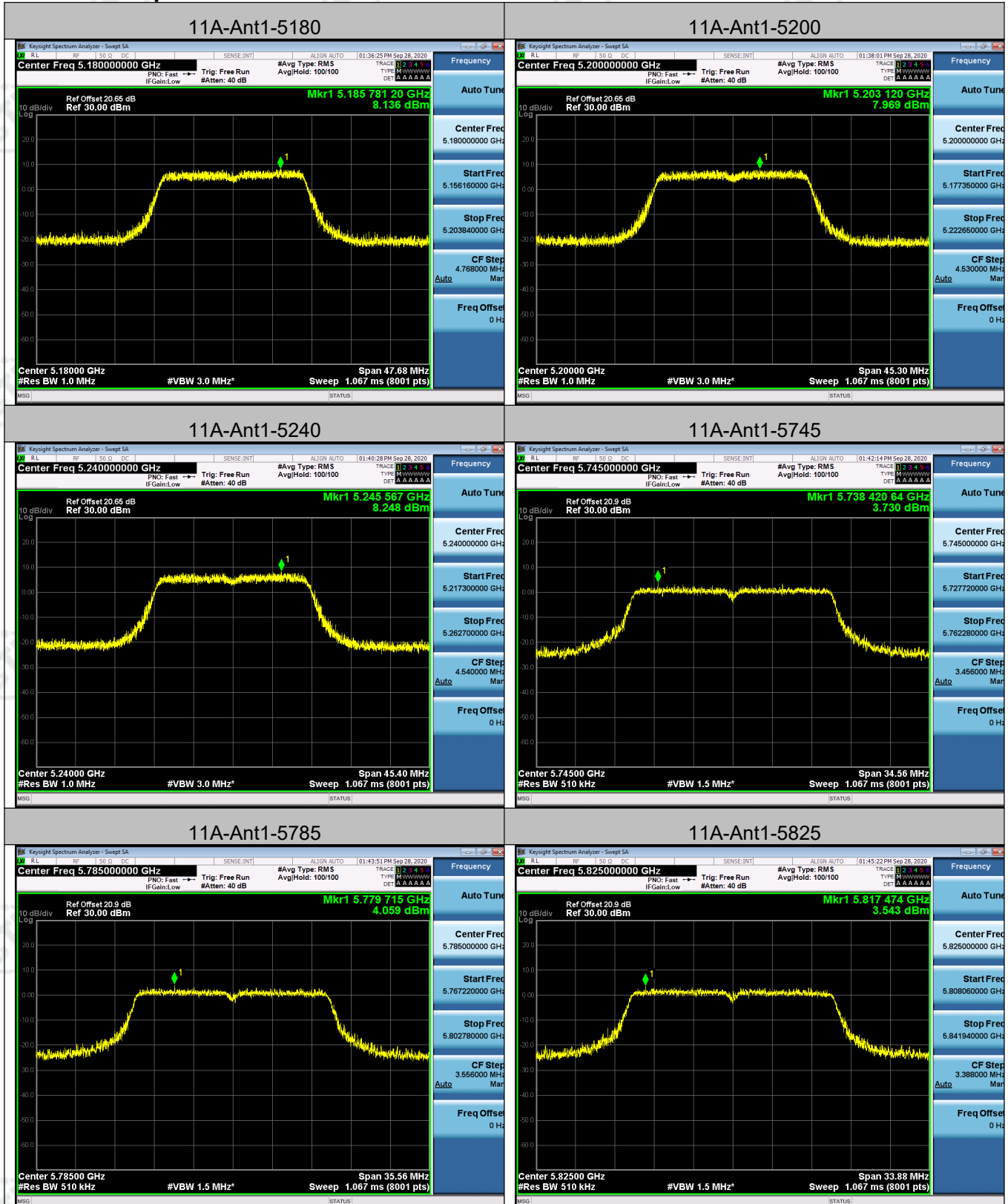
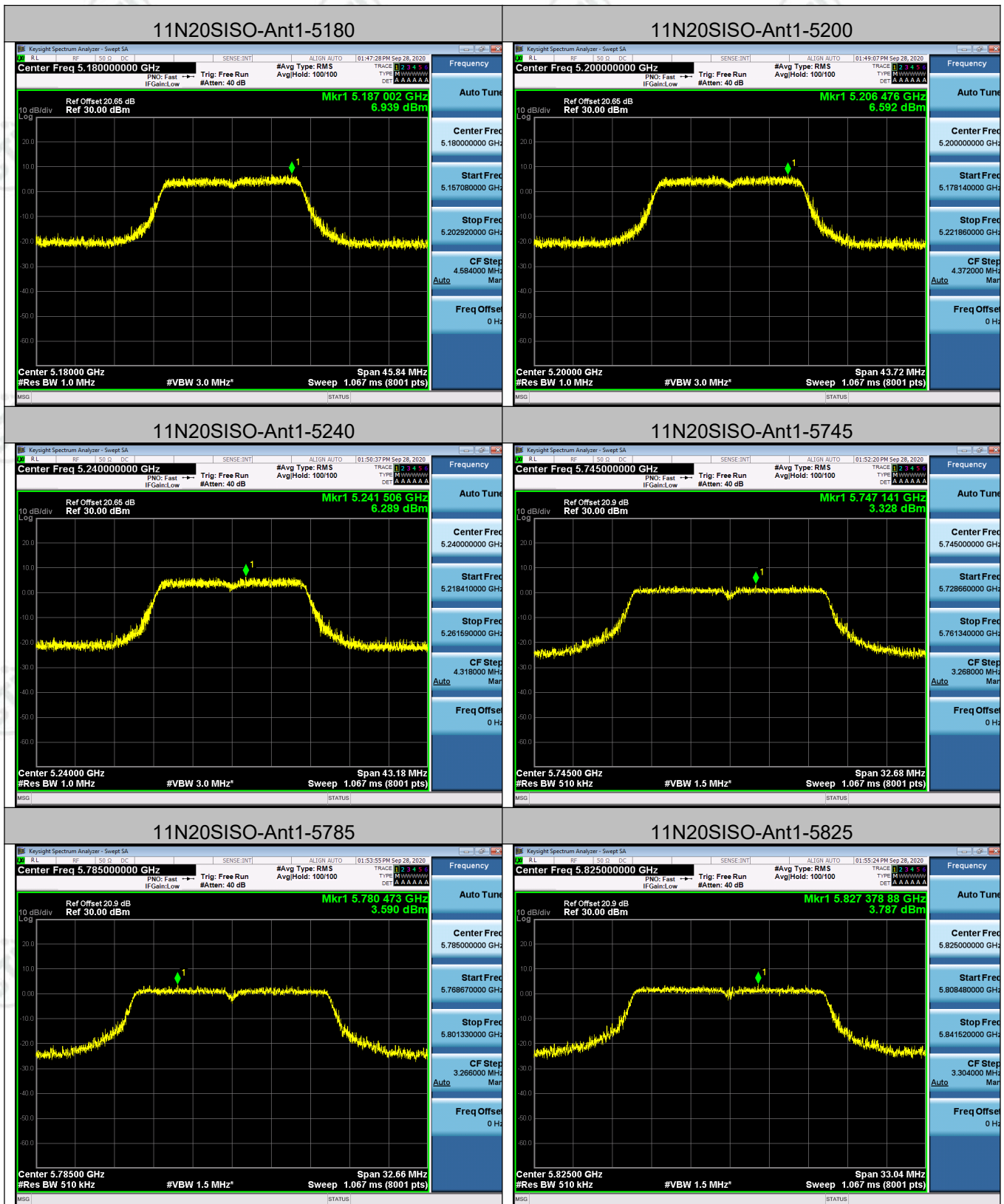
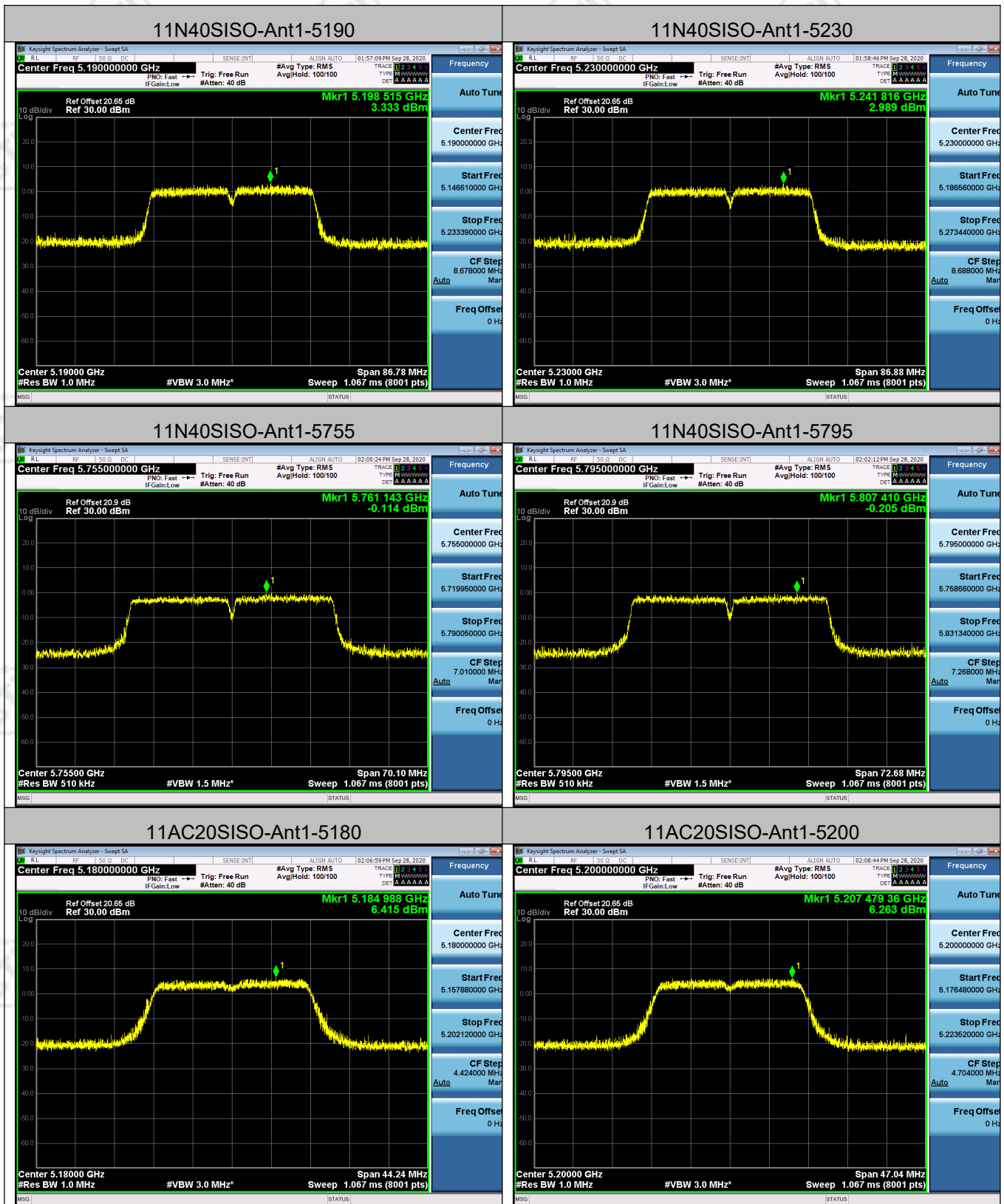
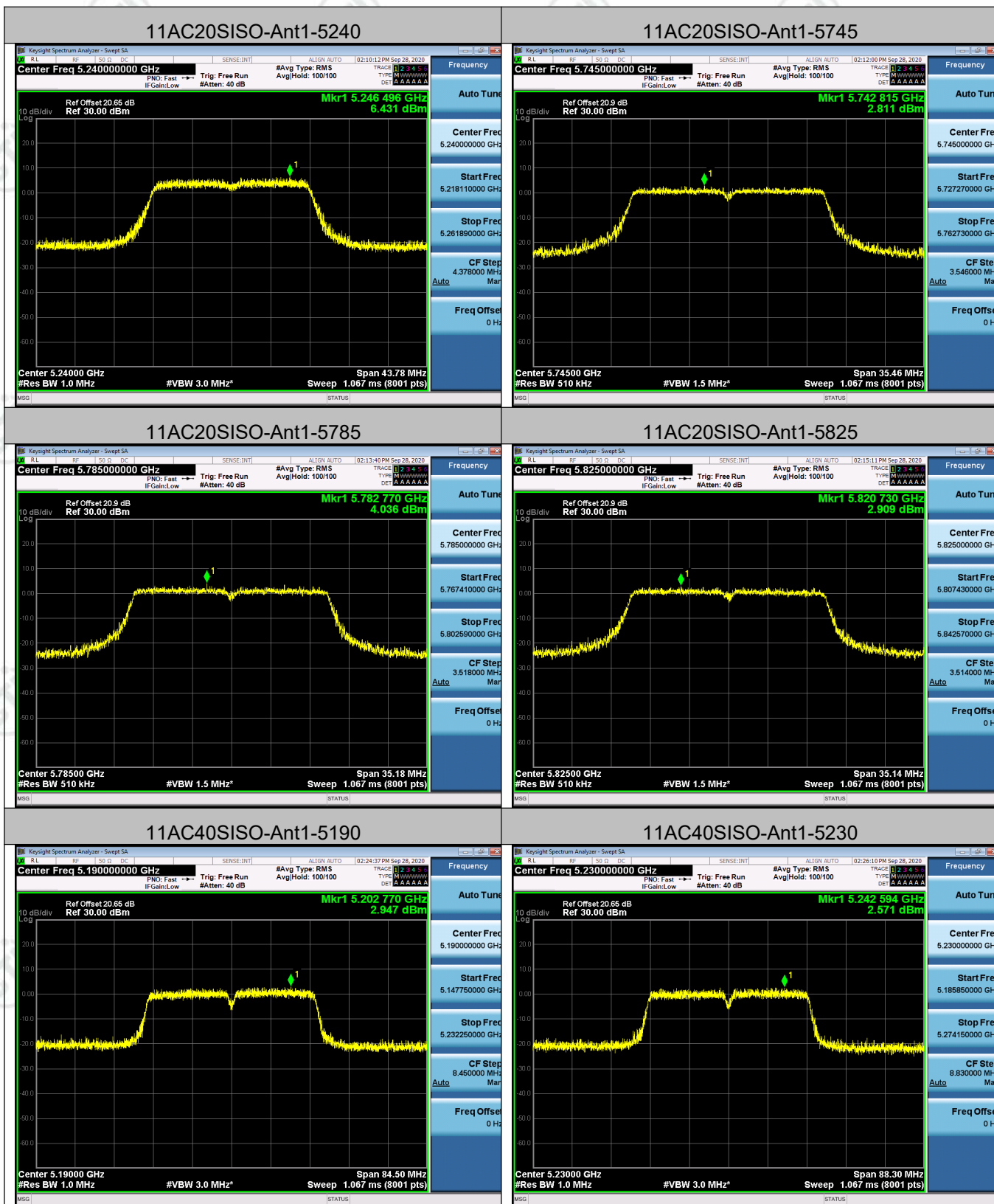


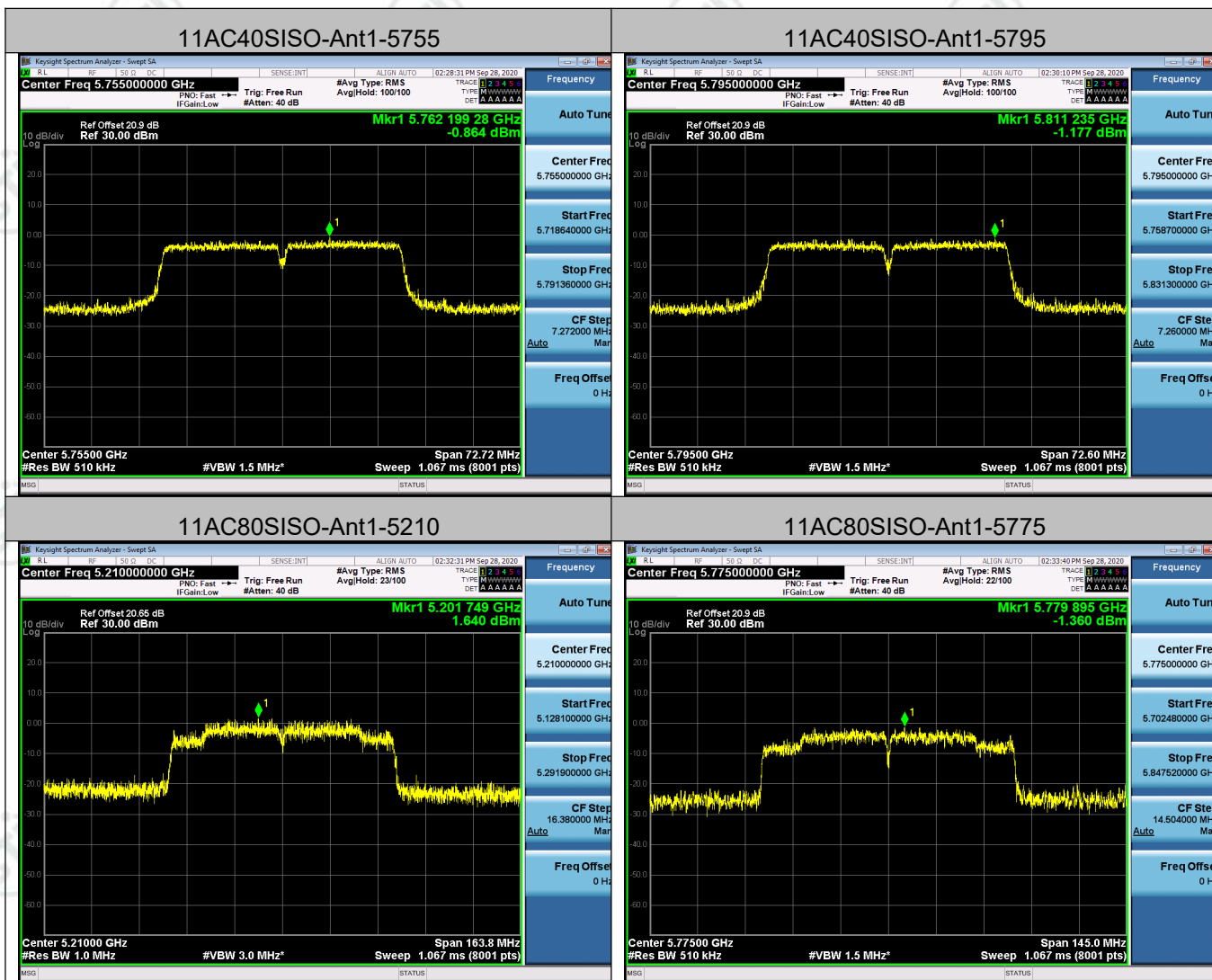
## Test Graph











## Appendix D): Band Edge Measurements

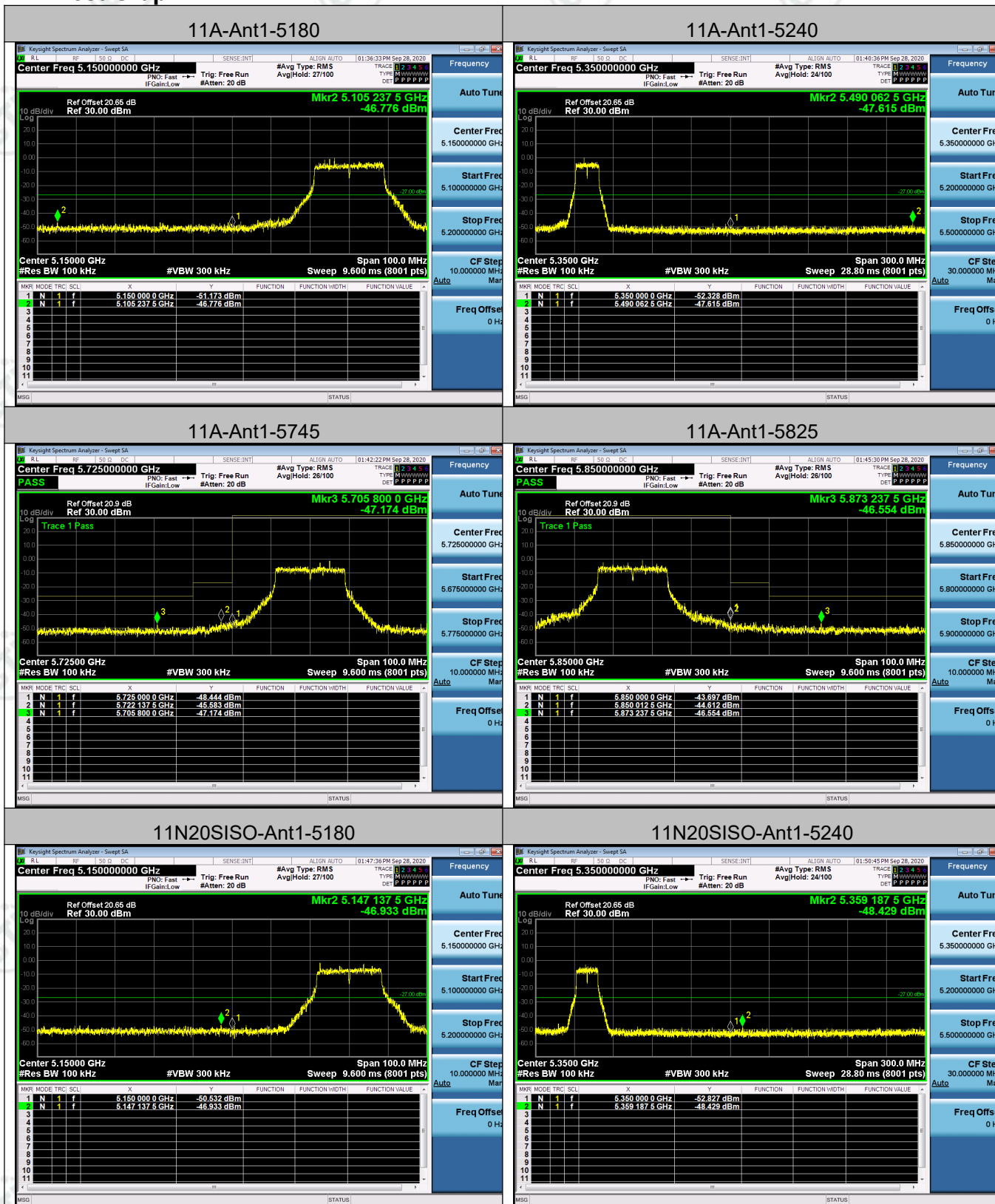
**Result Table**

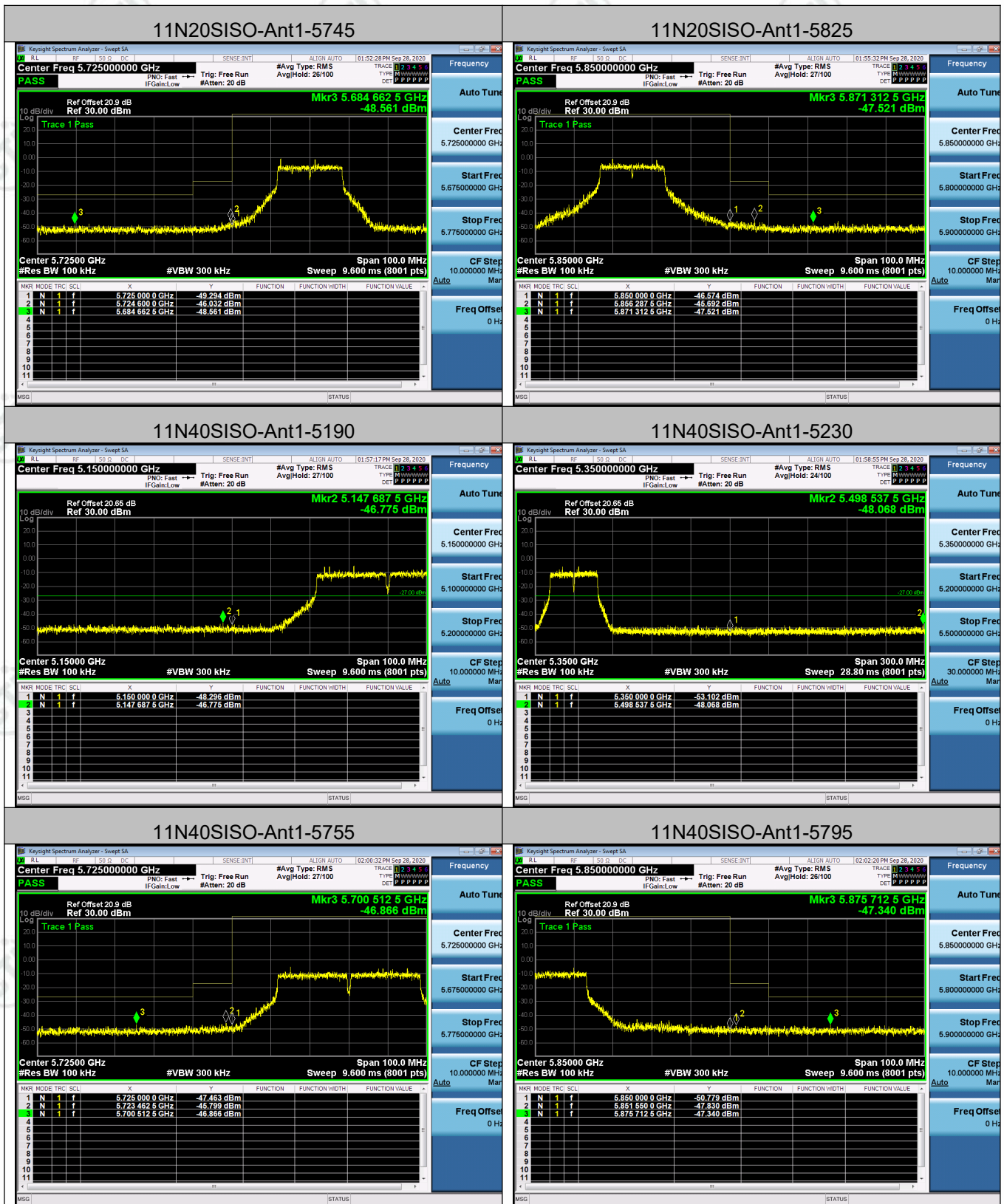
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11A       | Ant1    | 5180    | -46.776         |            | PASS    |
| 11A       | Ant1    | 5240    | -47.615         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11A       | Ant1    | 5745    | -47.174         | -45.583    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11A       | Ant1    | 5825    | -44.612         | -46.554    | PASS    |

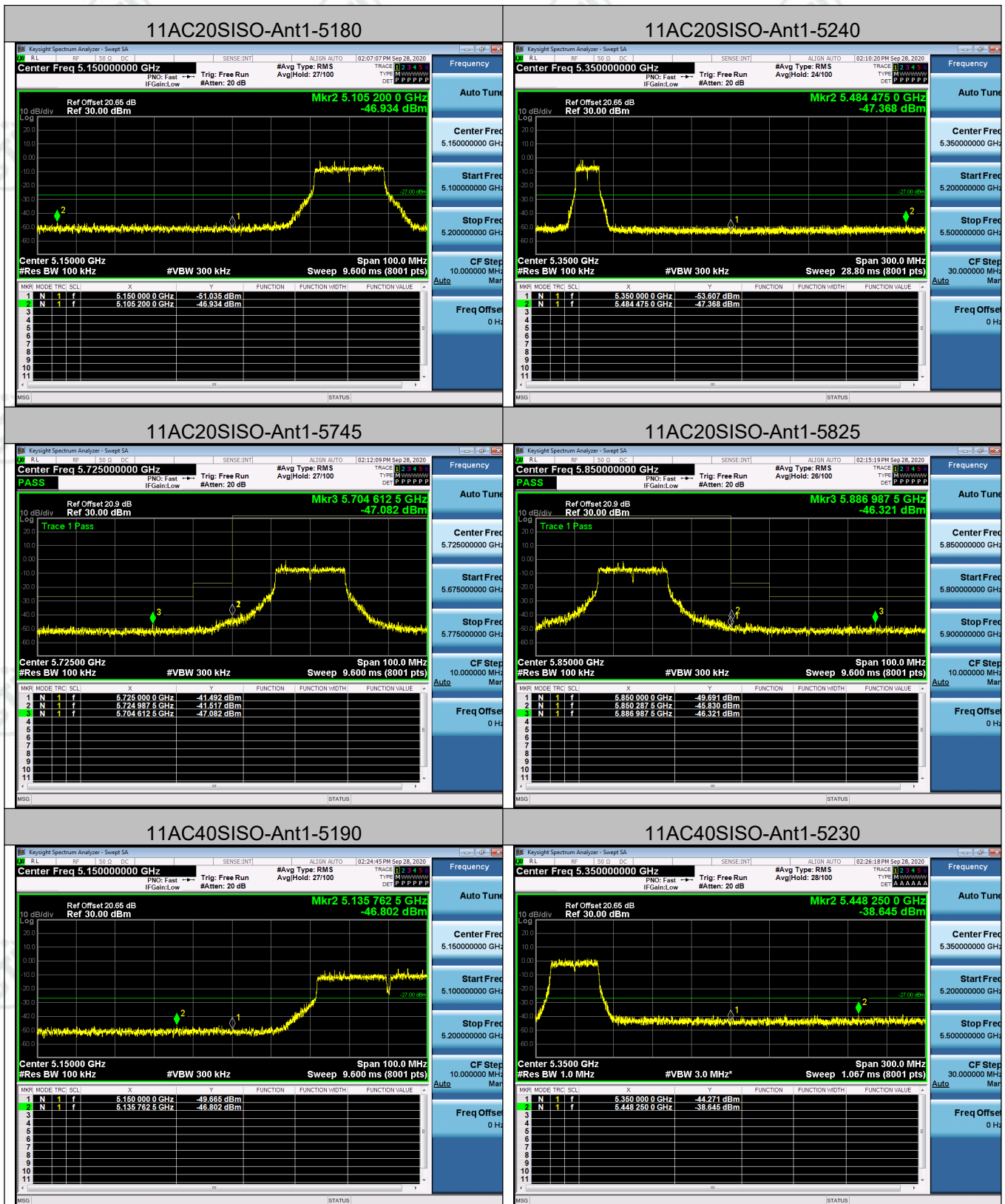
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|-----------|---------|---------|-----------------|------------|---------|
| 11N20SISO | Ant1    | 5180    | -46.933         |            | PASS    |
| 11N20SISO | Ant1    | 5240    | -48.429         |            | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | Below 5715      | 5715-5725  |         |
| 11N20SISO | Ant1    | 5745    | -48.561         | -46.032    | PASS    |
| Test Mode | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|           |         |         | 5850-5860       | Above 5860 |         |
| 11N20SISO | Ant1    | 5825    | -45.692         | -47.521    | PASS    |

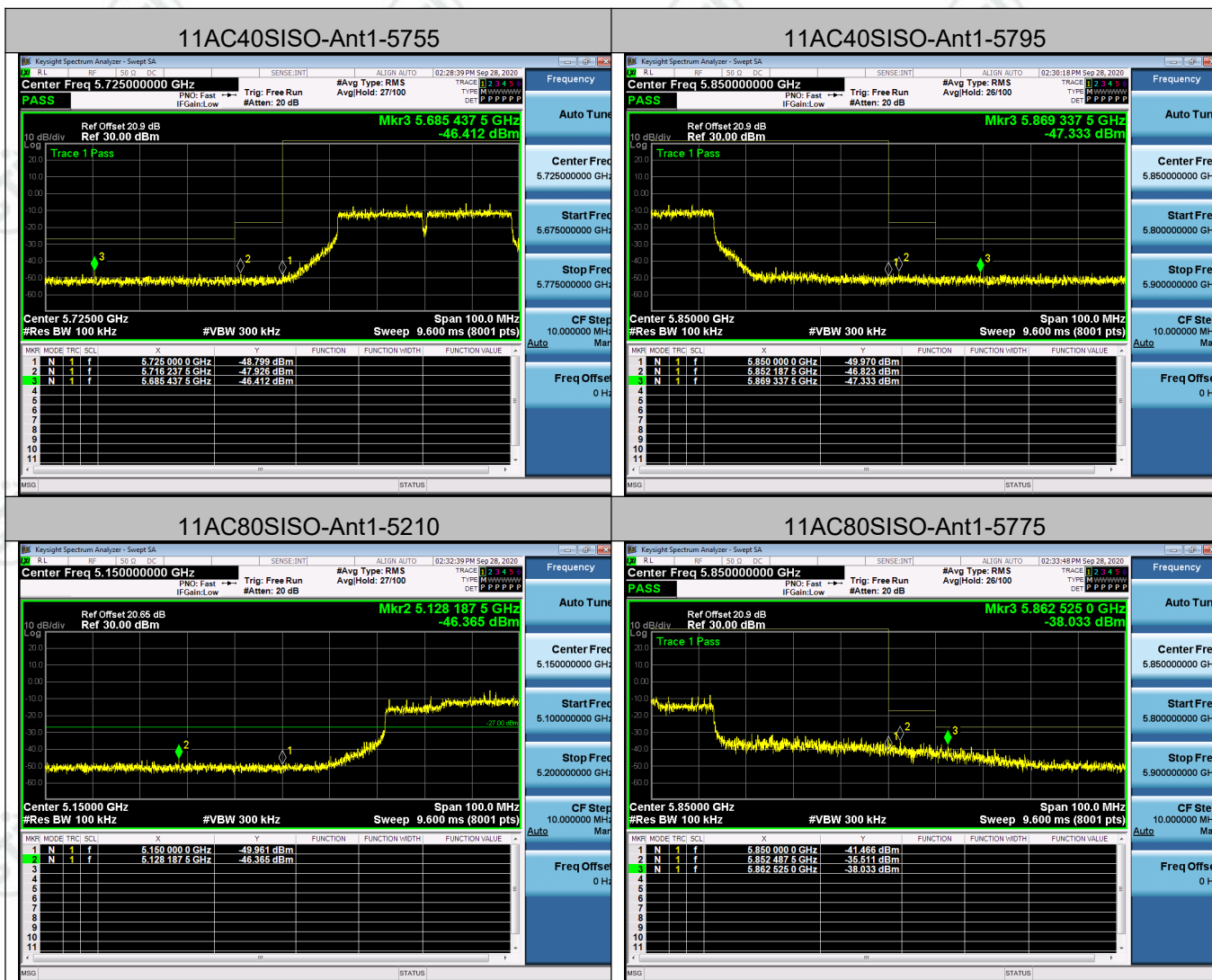
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|------------|---------|---------|-----------------|------------|---------|
| 11N40SISO  | Ant1    | 5190    | -48.296         |            | PASS    |
| 11N40SISO  | Ant1    | 5230    | -53.102         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11N40SISO  | Ant1    | 5755    | -46.866         | -45.799    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11N40SISO  | Ant1    | 5795    | -47.83          | -47.34     | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
| 11AC20SISO | Ant1    | 5180    | -46.934         |            | PASS    |
| 11AC20SISO | Ant1    | 5240    | -47.368         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC20SISO | Ant1    | 5745    | -47.082         | -41.517    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC20SISO | Ant1    | 5825    | -44.612         | -46.554    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
| 11AC40SISO | Ant1    | 5190    | -49.665         |            | PASS    |
| 11AC40SISO | Ant1    | 5230    | -44.271         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | Below 5715      | 5715-5725  |         |
| 11AC40SISO | Ant1    | 5755    | -46.412         | -47.926    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC40SISO | Ant1    | 5795    | -46.823         | -47.333    | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
| 11AC80SISO | Ant1    | 5210    | -49.961         |            | PASS    |
| Test Mode  | Antenna | Channel | Max.Level [dBm] |            | Verdict |
|            |         |         | 5850-5860       | Above 5860 |         |
| 11AC80SISO | Ant1    | 5775    | -35.511         | -38.033    | PASS    |

## Test Graph









## Appendix E): Frequency Stability

### Frequency Error vs. Voltage:

| Voltage vs. Frequency Stability |      |      |       |       |                |                |            |         |
|---------------------------------|------|------|-------|-------|----------------|----------------|------------|---------|
| Test Mode                       | Test | Ant  | Temp. | Volt. | Deviation[MHz] | Deviation[ppm] | Limit[ppm] | Verdict |
| 11A                             | 5180 | Ant1 | TN    | VL    | 5180.05        | 8.68726        | 20         | PASS    |
| 11A                             | 5180 | Ant1 | TN    | VN    | 5180.08        | 14.47876       | 20         | PASS    |
| 11A                             | 5180 | Ant1 | TN    | VH    | 5180.03        | 5.79151        | 20         | PASS    |
| 11A                             | 5200 | Ant1 | TN    | VL    | 5199.97        | -5.76923       | 20         | PASS    |
| 11A                             | 5200 | Ant1 | TN    | VN    | 5199.96        | -8.65385       | 20         | PASS    |
| 11A                             | 5200 | Ant1 | TN    | VH    | 5200.09        | 17.30769       | 20         | PASS    |
| 11A                             | 5240 | Ant1 | TN    | VL    | 5240.00        | 0.00000        | 20         | PASS    |
| 11A                             | 5240 | Ant1 | TN    | VN    | 5239.93        | -14.31298      | 20         | PASS    |
| 11A                             | 5240 | Ant1 | TN    | VH    | 5240.00        | 0.00000        | 20         | PASS    |
| 11A                             | 5745 | Ant1 | TN    | VL    | 5745.00        | 0.00000        | 20         | PASS    |
| 11A                             | 5745 | Ant1 | TN    | VN    | 5745.02        | 2.61097        | 20         | PASS    |
| 11A                             | 5745 | Ant1 | TN    | VH    | 5744.93        | -13.05483      | 20         | PASS    |
| 11A                             | 5785 | Ant1 | TN    | VL    | 5784.93        | -12.96456      | 20         | PASS    |
| 11A                             | 5785 | Ant1 | TN    | VN    | 5784.93        | -12.96456      | 20         | PASS    |
| 11A                             | 5785 | Ant1 | TN    | VH    | 5785.00        | 0.00000        | 20         | PASS    |
| 11A                             | 5825 | Ant1 | TN    | VL    | 5824.97        | -5.15022       | 20         | PASS    |
| 11A                             | 5825 | Ant1 | TN    | VN    | 5824.97        | -5.15022       | 20         | PASS    |
| 11A                             | 5825 | Ant1 | TN    | VH    | 5824.97        | -5.15022       | 20         | PASS    |
| 11N20                           | 5180 | Ant1 | TN    | VL    | 5180.00        | 0.00000        | 20         | PASS    |
| 11N20                           | 5180 | Ant1 | TN    | VN    | 5179.93        | -14.47876      | 20         | PASS    |
| 11N20                           | 5180 | Ant1 | TN    | VH    | 5179.99        | -2.89575       | 20         | PASS    |
| 11N20                           | 5200 | Ant1 | TN    | VL    | 5200.05        | 8.65385        | 20         | PASS    |
| 11N20                           | 5200 | Ant1 | TN    | VN    | 5199.97        | -5.76923       | 20         | PASS    |
| 11N20                           | 5200 | Ant1 | TN    | VH    | 5200.03        | 5.76923        | 20         | PASS    |
| 11N20                           | 5240 | Ant1 | TN    | VL    | 5239.94        | -11.45038      | 20         | PASS    |
| 11N20                           | 5240 | Ant1 | TN    | VN    | 5239.97        | -5.72519       | 20         | PASS    |
| 11N20                           | 5240 | Ant1 | TN    | VH    | 5239.93        | -14.31298      | 20         | PASS    |
| 11N20                           | 5745 | Ant1 | TN    | VL    | 5745.00        | 0.00000        | 20         | PASS    |
| 11N20                           | 5745 | Ant1 | TN    | VN    | 5744.97        | -5.22193       | 20         | PASS    |
| 11N20                           | 5745 | Ant1 | TN    | VH    | 5745.00        | 0.00000        | 20         | PASS    |
| 11N20                           | 5785 | Ant1 | TN    | VL    | 5784.97        | -5.18583       | 20         | PASS    |
| 11N20                           | 5785 | Ant1 | TN    | VN    | 5784.96        | -7.77874       | 20         | PASS    |

|        |      |      |    |    |         |           |    |      |
|--------|------|------|----|----|---------|-----------|----|------|
| 11N20  | 5785 | Ant1 | TN | VH | 5785.02 | 2.59291   | 20 | PASS |
| 11N20  | 5825 | Ant1 | TN | VL | 5824.96 | -7.72532  | 20 | PASS |
| 11N20  | 5825 | Ant1 | TN | VN | 5824.90 | -18.02575 | 20 | PASS |
| 11N20  | 5825 | Ant1 | TN | VH | 5824.96 | -7.72532  | 20 | PASS |
| 11N40  | 5190 | Ant1 | TN | VL | 5189.91 | -17.34104 | 20 | PASS |
| 11N40  | 5190 | Ant1 | TN | VN | 5190.03 | 5.78035   | 20 | PASS |
| 11N40  | 5190 | Ant1 | TN | VH | 5189.97 | -5.78035  | 20 | PASS |
| 11N40  | 5230 | Ant1 | TN | VL | 5229.94 | -11.47228 | 20 | PASS |
| 11N40  | 5230 | Ant1 | TN | VN | 5229.91 | -17.20841 | 20 | PASS |
| 11N40  | 5230 | Ant1 | TN | VH | 5229.94 | -11.47228 | 20 | PASS |
| 11N40  | 5755 | Ant1 | TN | VL | 5755.03 | 5.21286   | 20 | PASS |
| 11N40  | 5755 | Ant1 | TN | VN | 5755.00 | 0.00000   | 20 | PASS |
| 11N40  | 5755 | Ant1 | TN | VH | 5755.00 | 0.00000   | 20 | PASS |
| 11N40  | 5795 | Ant1 | TN | VL | 5795.03 | 5.17688   | 20 | PASS |
| 11N40  | 5795 | Ant1 | TN | VN | 5794.94 | -10.35375 | 20 | PASS |
| 11N40  | 5795 | Ant1 | TN | VH | 5795.03 | 5.17688   | 20 | PASS |
| 11AC20 | 5180 | Ant1 | TN | VL | 5179.94 | -11.58301 | 20 | PASS |
| 11AC20 | 5180 | Ant1 | TN | VN | 5179.96 | -8.68726  | 20 | PASS |
| 11AC20 | 5180 | Ant1 | TN | VH | 5180.05 | 8.68726   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | TN | VL | 5200.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | TN | VN | 5200.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | TN | VH | 5200.02 | 2.88462   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | TN | VL | 5240.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | TN | VN | 5240.03 | 5.72519   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | TN | VH | 5239.99 | -2.86260  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | TN | VL | 5745.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5745 | Ant1 | TN | VN | 5744.96 | -7.83290  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | TN | VH | 5744.97 | -5.22193  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | TN | VL | 5784.93 | -12.96456 | 20 | PASS |
| 11AC20 | 5785 | Ant1 | TN | VN | 5784.97 | -5.18583  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | TN | VH | 5784.93 | -12.96456 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | TN | VL | 5824.90 | -18.02575 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | TN | VN | 5824.97 | -5.15022  | 20 | PASS |
| 11AC20 | 5825 | Ant1 | TN | VH | 5824.96 | -7.72532  | 20 | PASS |
| 11AC40 | 5190 | Ant1 | TN | VL | 5190.08 | 15.41426  | 20 | PASS |
| 11AC40 | 5190 | Ant1 | TN | VN | 5190.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | TN | VH | 5190.08 | 15.41426  | 20 | PASS |

|        |      |      |    |    |         |           |    |      |
|--------|------|------|----|----|---------|-----------|----|------|
| 11AC40 | 5230 | Ant1 | TN | VL | 5230.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | TN | VN | 5229.92 | -15.29637 | 20 | PASS |
| 11AC40 | 5230 | Ant1 | TN | VH | 5229.96 | -7.64818  | 20 | PASS |
| 11AC40 | 5755 | Ant1 | TN | VL | 5754.92 | -13.90096 | 20 | PASS |
| 11AC40 | 5755 | Ant1 | TN | VN | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | TN | VH | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | TN | VL | 5795.04 | 6.90250   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | TN | VN | 5795.04 | 6.90250   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | TN | VH | 5795.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | TN | VL | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | TN | VN | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | TN | VH | 5210.08 | 15.35509  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | TN | VL | 5775.08 | 13.85281  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | TN | VN | 5775.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5775 | Ant1 | TN | VH | 5775.00 | 0.00000   | 20 | PASS |

**Frequency Error vs. Temperature:**

| Temperature vs. Frequency Stability |      |      |       |       |                |                |            |         |
|-------------------------------------|------|------|-------|-------|----------------|----------------|------------|---------|
| Test Mode                           | Test | Ant  | Volt. | Temp. | Deviation[MHz] | Deviation[ppm] | Limit[ppm] | Verdict |
| 11A                                 | 5180 | Ant1 | VN    | -30   | 5180.02        | 2.89575        | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | -20   | 5179.99        | -2.89575       | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | -10   | 5180.09        | 17.37452       | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 0     | 5179.99        | -2.89575       | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 10    | 5180.06        | 11.58301       | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 20    | 5180.03        | 5.79151        | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 30    | 5180.03        | 5.79151        | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 40    | 5180.00        | 0.00000        | 20         | PASS    |
| 11A                                 | 5180 | Ant1 | VN    | 50    | 5179.99        | -2.89575       | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | -30   | 5200.03        | 5.76923        | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | -20   | 5199.96        | -8.65385       | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | -10   | 5199.97        | -5.76923       | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 0     | 5200.00        | 0.00000        | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 10    | 5199.99        | -2.88462       | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 20    | 5200.05        | 8.65385        | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 30    | 5199.96        | -8.65385       | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 40    | 5200.05        | 8.65385        | 20         | PASS    |
| 11A                                 | 5200 | Ant1 | VN    | 50    | 5199.97        | -5.76923       | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | -30   | 5239.91        | -17.17557      | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | -20   | 5240.02        | 2.86260        | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | -10   | 5240.00        | 0.00000        | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 0     | 5239.97        | -5.72519       | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 10    | 5240.03        | 5.72519        | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 20    | 5239.99        | -2.86260       | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 30    | 5240.00        | 0.00000        | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 40    | 5240.03        | 5.72519        | 20         | PASS    |
| 11A                                 | 5240 | Ant1 | VN    | 50    | 5240.02        | 2.86260        | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | -30   | 5744.91        | -15.66580      | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | -20   | 5744.99        | -2.61097       | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | -10   | 5744.99        | -2.61097       | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | 0     | 5744.94        | -10.44386      | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | 10    | 5744.94        | -10.44386      | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | 20    | 5744.91        | -15.66580      | 20         | PASS    |
| 11A                                 | 5745 | Ant1 | VN    | 30    | 5745.02        | 2.61097        | 20         | PASS    |

|       |      |      |    |     |         |           |    |      |
|-------|------|------|----|-----|---------|-----------|----|------|
| 11A   | 5745 | Ant1 | VN | 40  | 5744.91 | -15.66580 | 20 | PASS |
| 11A   | 5745 | Ant1 | VN | 50  | 5744.91 | -15.66580 | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | -30 | 5784.93 | -12.96456 | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | -20 | 5785.00 | 0.00000   | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | -10 | 5784.93 | -12.96456 | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 0   | 5784.96 | -7.77874  | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 10  | 5784.94 | -10.37165 | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 20  | 5784.93 | -12.96456 | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 30  | 5784.96 | -7.77874  | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 40  | 5785.05 | 7.77874   | 20 | PASS |
| 11A   | 5785 | Ant1 | VN | 50  | 5784.94 | -10.37165 | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | -30 | 5824.97 | -5.15022  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | -20 | 5824.97 | -5.15022  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | -10 | 5824.90 | -18.02575 | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 0   | 5824.99 | -2.57511  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 10  | 5825.00 | 0.00000   | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 20  | 5825.06 | 10.30043  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 30  | 5824.96 | -7.72532  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 40  | 5824.97 | -5.15022  | 20 | PASS |
| 11A   | 5825 | Ant1 | VN | 50  | 5825.00 | 0.00000   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | -30 | 5180.02 | 2.89575   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | -20 | 5180.02 | 2.89575   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | -10 | 5179.94 | -11.58301 | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 0   | 5179.99 | -2.89575  | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 10  | 5180.02 | 2.89575   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 20  | 5180.02 | 2.89575   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 30  | 5179.97 | -5.79151  | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 40  | 5180.03 | 5.79151   | 20 | PASS |
| 11N20 | 5180 | Ant1 | VN | 50  | 5180.03 | 5.79151   | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | -30 | 5200.05 | 8.65385   | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | -20 | 5200.08 | 14.42308  | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | -10 | 5199.96 | -8.65385  | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | 0   | 5200.08 | 14.42308  | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | 10  | 5199.94 | -11.53846 | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | 20  | 5200.08 | 14.42308  | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | 30  | 5199.93 | -14.42308 | 20 | PASS |
| 11N20 | 5200 | Ant1 | VN | 40  | 5200.02 | 2.88462   | 20 | PASS |

|       |      |      |    |     |         |           |    |      |
|-------|------|------|----|-----|---------|-----------|----|------|
| 11N20 | 5200 | Ant1 | VN | 50  | 5199.99 | -2.88462  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | -30 | 5239.99 | -2.86260  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | -20 | 5239.97 | -5.72519  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | -10 | 5239.96 | -8.58779  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 0   | 5240.00 | 0.00000   | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 10  | 5239.91 | -17.17557 | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 20  | 5240.00 | 0.00000   | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 30  | 5239.96 | -8.58779  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 40  | 5239.97 | -5.72519  | 20 | PASS |
| 11N20 | 5240 | Ant1 | VN | 50  | 5240.00 | 0.00000   | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | -30 | 5744.97 | -5.22193  | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | -20 | 5744.99 | -2.61097  | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | -10 | 5745.05 | 7.83290   | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 0   | 5744.93 | -13.05483 | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 10  | 5744.96 | -7.83290  | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 20  | 5745.05 | 7.83290   | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 30  | 5744.97 | -5.22193  | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 40  | 5744.90 | -18.27676 | 20 | PASS |
| 11N20 | 5745 | Ant1 | VN | 50  | 5744.94 | -10.44386 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | -30 | 5784.90 | -18.15039 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | -20 | 5784.99 | -2.59291  | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | -10 | 5784.93 | -12.96456 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 0   | 5784.90 | -18.15039 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 10  | 5785.06 | 10.37165  | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 20  | 5784.93 | -12.96456 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 30  | 5784.91 | -15.55748 | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 40  | 5784.96 | -7.77874  | 20 | PASS |
| 11N20 | 5785 | Ant1 | VN | 50  | 5785.00 | 0.00000   | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | -30 | 5825.00 | 0.00000   | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | -20 | 5825.00 | 0.00000   | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | -10 | 5825.00 | 0.00000   | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 0   | 5824.94 | -10.30043 | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 10  | 5824.94 | -10.30043 | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 20  | 5825.00 | 0.00000   | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 30  | 5824.94 | -10.30043 | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 40  | 5824.99 | -2.57511  | 20 | PASS |
| 11N20 | 5825 | Ant1 | VN | 50  | 5824.94 | -10.30043 | 20 | PASS |

|        |      |      |    |     |         |           |    |      |
|--------|------|------|----|-----|---------|-----------|----|------|
| 11N40  | 5190 | Ant1 | VN | -30 | 5189.97 | -5.78035  | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | -20 | 5189.97 | -5.78035  | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | -10 | 5190.03 | 5.78035   | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 0   | 5190.06 | 11.56069  | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 10  | 5190.00 | 0.00000   | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 20  | 5190.00 | 0.00000   | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 30  | 5189.97 | -5.78035  | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 40  | 5190.03 | 5.78035   | 20 | PASS |
| 11N40  | 5190 | Ant1 | VN | 50  | 5189.97 | -5.78035  | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | -30 | 5230.00 | 0.00000   | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | -20 | 5229.97 | -5.73614  | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | -10 | 5230.00 | 0.00000   | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 0   | 5230.00 | 0.00000   | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 10  | 5230.00 | 0.00000   | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 20  | 5230.00 | 0.00000   | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 30  | 5229.94 | -11.47228 | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 40  | 5229.91 | -17.20841 | 20 | PASS |
| 11N40  | 5230 | Ant1 | VN | 50  | 5229.94 | -11.47228 | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | -30 | 5754.97 | -5.21286  | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | -20 | 5755.03 | 5.21286   | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | -10 | 5755.03 | 5.21286   | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 0   | 5754.91 | -15.63858 | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 10  | 5754.97 | -5.21286  | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 20  | 5755.00 | 0.00000   | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 30  | 5754.91 | -15.63858 | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 40  | 5754.97 | -5.21286  | 20 | PASS |
| 11N40  | 5755 | Ant1 | VN | 50  | 5755.03 | 5.21286   | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | -30 | 5795.00 | 0.00000   | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | -20 | 5794.97 | -5.17688  | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | -10 | 5794.97 | -5.17688  | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 0   | 5794.97 | -5.17688  | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 10  | 5795.00 | 0.00000   | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 20  | 5795.03 | 5.17688   | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 30  | 5794.97 | -5.17688  | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 40  | 5795.03 | 5.17688   | 20 | PASS |
| 11N40  | 5795 | Ant1 | VN | 50  | 5794.91 | -15.53063 | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | -30 | 5179.97 | -5.79151  | 20 | PASS |

|        |      |      |    |     |         |           |    |      |
|--------|------|------|----|-----|---------|-----------|----|------|
| 11AC20 | 5180 | Ant1 | VN | -20 | 5180.06 | 11.58301  | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | -10 | 5179.97 | -5.79151  | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 0   | 5179.99 | -2.89575  | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 10  | 5180.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 20  | 5180.02 | 2.89575   | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 30  | 5179.97 | -5.79151  | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 40  | 5180.02 | 2.89575   | 20 | PASS |
| 11AC20 | 5180 | Ant1 | VN | 50  | 5180.02 | 2.89575   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | -30 | 5199.96 | -8.65385  | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | -20 | 5199.97 | -5.76923  | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | -10 | 5199.96 | -8.65385  | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 0   | 5200.02 | 2.88462   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 10  | 5199.94 | -11.53846 | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 20  | 5200.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 30  | 5199.94 | -11.53846 | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 40  | 5200.02 | 2.88462   | 20 | PASS |
| 11AC20 | 5200 | Ant1 | VN | 50  | 5200.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | -30 | 5240.03 | 5.72519   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | -20 | 5240.03 | 5.72519   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | -10 | 5240.05 | 8.58779   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 0   | 5239.94 | -11.45038 | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 10  | 5239.99 | -2.86260  | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 20  | 5240.02 | 2.86260   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 30  | 5240.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 40  | 5240.03 | 5.72519   | 20 | PASS |
| 11AC20 | 5240 | Ant1 | VN | 50  | 5239.96 | -8.58779  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | -30 | 5744.99 | -2.61097  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | -20 | 5744.90 | -18.27676 | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | -10 | 5744.94 | -10.44386 | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 0   | 5744.93 | -13.05483 | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 10  | 5745.03 | 5.22193   | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 20  | 5744.97 | -5.22193  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 30  | 5744.97 | -5.22193  | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 40  | 5744.93 | -13.05483 | 20 | PASS |
| 11AC20 | 5745 | Ant1 | VN | 50  | 5744.96 | -7.83290  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | -30 | 5784.97 | -5.18583  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | -20 | 5785.02 | 2.59291   | 20 | PASS |

|        |      |      |    |     |         |           |    |      |
|--------|------|------|----|-----|---------|-----------|----|------|
| 11AC20 | 5785 | Ant1 | VN | -10 | 5785.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 0   | 5784.90 | -18.15039 | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 10  | 5784.99 | -2.59291  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 20  | 5784.96 | -7.77874  | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 30  | 5784.93 | -12.96456 | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 40  | 5784.90 | -18.15039 | 20 | PASS |
| 11AC20 | 5785 | Ant1 | VN | 50  | 5785.02 | 2.59291   | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | -30 | 5824.94 | -10.30043 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | -20 | 5824.94 | -10.30043 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | -10 | 5825.00 | 0.00000   | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 0   | 5824.94 | -10.30043 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 10  | 5824.97 | -5.15022  | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 20  | 5824.93 | -12.87554 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 30  | 5824.94 | -10.30043 | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 40  | 5825.02 | 2.57511   | 20 | PASS |
| 11AC20 | 5825 | Ant1 | VN | 50  | 5824.94 | -10.30043 | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | -30 | 5190.04 | 7.70713   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | -20 | 5189.92 | -15.41426 | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | -10 | 5190.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 0   | 5190.04 | 7.70713   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 10  | 5190.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 20  | 5190.04 | 7.70713   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 30  | 5190.04 | 7.70713   | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 40  | 5190.08 | 15.41426  | 20 | PASS |
| 11AC40 | 5190 | Ant1 | VN | 50  | 5190.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | -30 | 5229.96 | -7.64818  | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | -20 | 5230.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | -10 | 5229.96 | -7.64818  | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 0   | 5229.96 | -7.64818  | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 10  | 5230.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 20  | 5230.04 | 7.64818   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 30  | 5230.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 40  | 5230.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5230 | Ant1 | VN | 50  | 5229.96 | -7.64818  | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | -30 | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | -20 | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | -10 | 5754.92 | -13.90096 | 20 | PASS |

|        |      |      |    |     |         |           |    |      |
|--------|------|------|----|-----|---------|-----------|----|------|
| 11AC40 | 5755 | Ant1 | VN | 0   | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | 10  | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | 20  | 5755.08 | 13.90096  | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | 30  | 5755.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | 40  | 5754.92 | -13.90096 | 20 | PASS |
| 11AC40 | 5755 | Ant1 | VN | 50  | 5755.04 | 6.95048   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | -30 | 5795.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | -20 | 5794.96 | -6.90250  | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | -10 | 5794.92 | -13.80500 | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 0   | 5795.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 10  | 5794.92 | -13.80500 | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 20  | 5794.92 | -13.80500 | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 30  | 5795.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 40  | 5795.00 | 0.00000   | 20 | PASS |
| 11AC40 | 5795 | Ant1 | VN | 50  | 5795.08 | 13.80500  | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | -30 | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | -20 | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | -10 | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 0   | 5209.92 | -15.35509 | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 10  | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 20  | 5209.92 | -15.35509 | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 30  | 5210.08 | 15.35509  | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 40  | 5210.08 | 15.35509  | 20 | PASS |
| 11AC80 | 5210 | Ant1 | VN | 50  | 5210.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | -30 | 5775.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | -20 | 5775.08 | 13.85281  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | -10 | 5775.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 0   | 5775.08 | 13.85281  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 10  | 5775.08 | 13.85281  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 20  | 5774.92 | -13.85281 | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 30  | 5775.08 | 13.85281  | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 40  | 5775.00 | 0.00000   | 20 | PASS |
| 11AC80 | 5775 | Ant1 | VN | 50  | 5775.08 | 13.85281  | 20 | PASS |

## Appendix F) Antenna Requirement

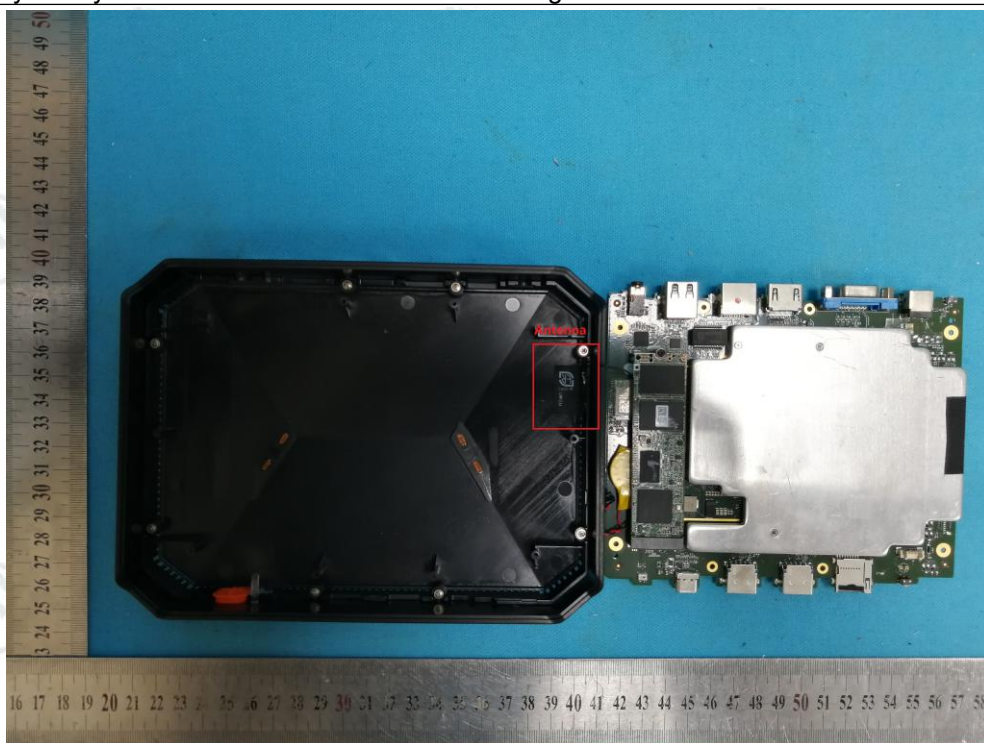
### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is 2.18dBi.

## Appendix G) AC Power Line Conducted Emission

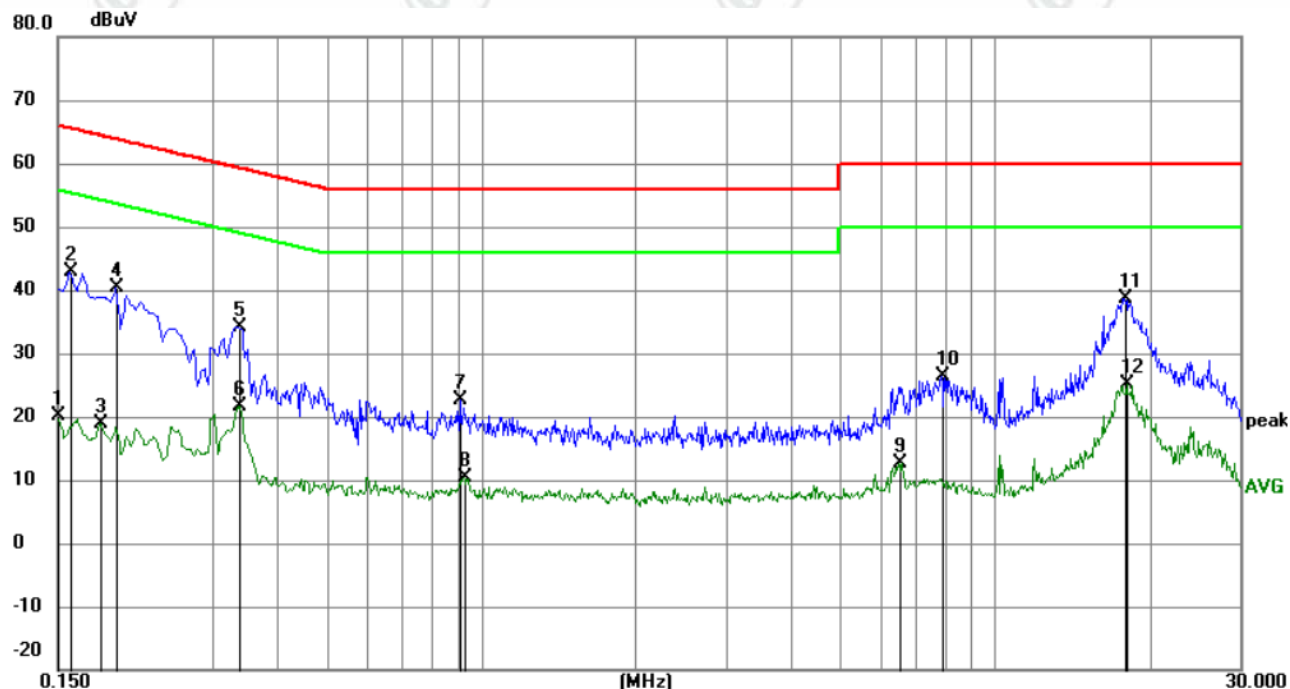
| Test Procedure:       | <p>Test frequency range :150KHz-30MHz</p> <p>1)The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</p> <p>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</p> |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Limit:                | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.</p> <p>NOTE : The lower limit is applicable at the transition frequency</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Frequency range (MHz) | Limit (dBμV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Average               |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56 to 46*             |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 46                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50                    |              |  |            |         |          |           |           |       |    |    |      |    |    |

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

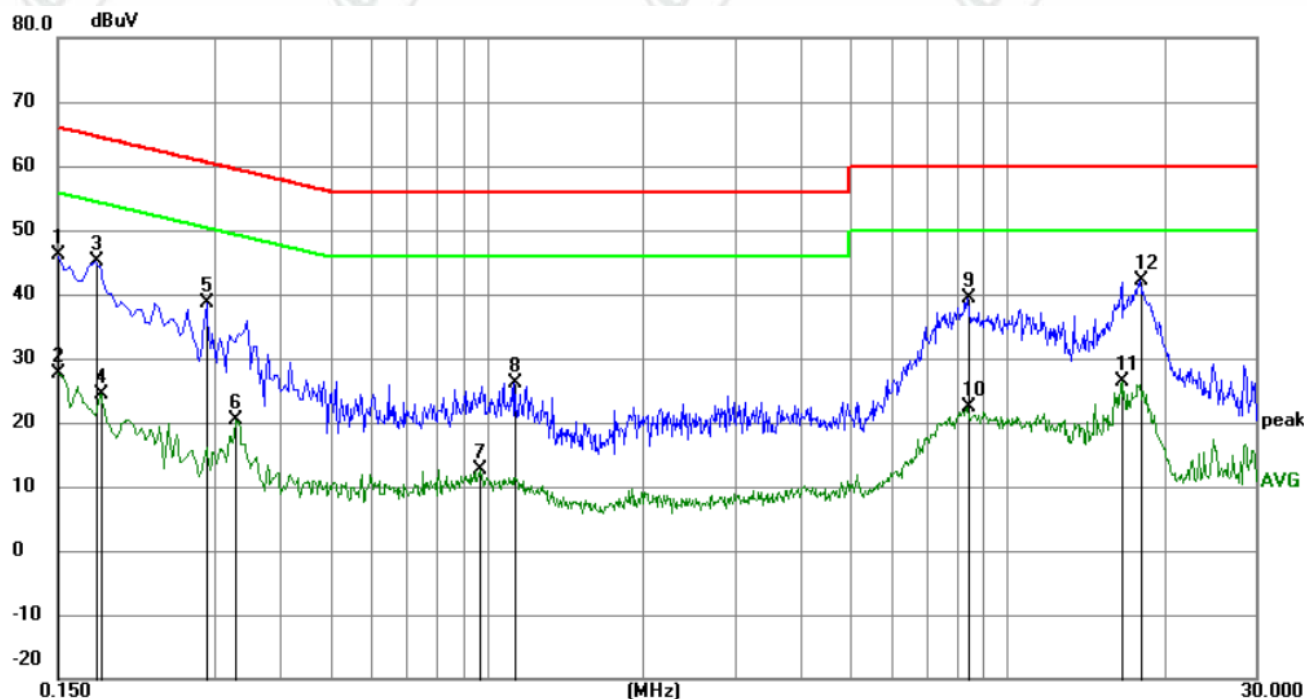
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 10.29                    | 9.87                    | 20.16                    | 56.00         | -35.84       | AVG      |         |
| 2   |     | 0.1590       | 33.06                    | 9.87                    | 42.93                    | 65.52         | -22.59       | QP       |         |
| 3   |     | 0.1815       | 8.92                     | 9.87                    | 18.79                    | 54.42         | -35.63       | AVG      |         |
| 4   |     | 0.1949       | 30.49                    | 9.87                    | 40.36                    | 63.83         | -23.47       | QP       |         |
| 5   |     | 0.3390       | 24.17                    | 10.03                   | 34.20                    | 59.23         | -25.03       | QP       |         |
| 6   |     | 0.3390       | 11.64                    | 10.03                   | 21.67                    | 49.23         | -27.56       | AVG      |         |
| 7   |     | 0.9105       | 12.76                    | 9.85                    | 22.61                    | 56.00         | -33.39       | QP       |         |
| 8   |     | 0.9240       | 0.44                     | 9.85                    | 10.29                    | 46.00         | -35.71       | AVG      |         |
| 9   |     | 6.4995       | 2.91                     | 9.79                    | 12.70                    | 50.00         | -37.30       | AVG      |         |
| 10  |     | 7.8765       | 16.66                    | 9.79                    | 26.45                    | 60.00         | -33.55       | QP       |         |
| 11  | *   | 17.8890      | 28.75                    | 9.95                    | 38.70                    | 60.00         | -21.30       | QP       |         |
| 12  |     | 18.1050      | 15.26                    | 9.95                    | 25.21                    | 50.00         | -24.79       | AVG      |         |

Neutral line:



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1500       | 36.36                    | 9.87                    | 46.23                    | 66.00         | -19.77       | QP       |         |
| 2   |     | 0.1500       | 17.84                    | 9.87                    | 27.71                    | 56.00         | -28.29       | AVG      |         |
| 3   |     | 0.1770       | 35.17                    | 9.87                    | 45.04                    | 64.63         | -19.59       | QP       |         |
| 4   |     | 0.1815       | 14.48                    | 9.87                    | 24.35                    | 54.42         | -30.07       | AVG      |         |
| 5   |     | 0.2895       | 28.66                    | 10.05                   | 38.71                    | 60.54         | -21.83       | QP       |         |
| 6   |     | 0.3300       | 10.25                    | 10.04                   | 20.29                    | 49.45         | -29.16       | AVG      |         |
| 7   |     | 0.9735       | 2.81                     | 9.84                    | 12.65                    | 46.00         | -33.35       | AVG      |         |
| 8   |     | 1.1310       | 16.42                    | 9.82                    | 26.24                    | 56.00         | -29.76       | QP       |         |
| 9   |     | 8.3895       | 29.58                    | 9.79                    | 39.37                    | 60.00         | -20.63       | QP       |         |
| 10  |     | 8.3895       | 12.65                    | 9.79                    | 22.44                    | 50.00         | -27.56       | AVG      |         |
| 11  |     | 16.5795      | 16.38                    | 9.94                    | 26.32                    | 50.00         | -23.68       | AVG      |         |
| 12  | *   | 17.9880      | 32.25                    | 9.95                    | 42.20                    | 60.00         | -17.80       | QP       |         |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

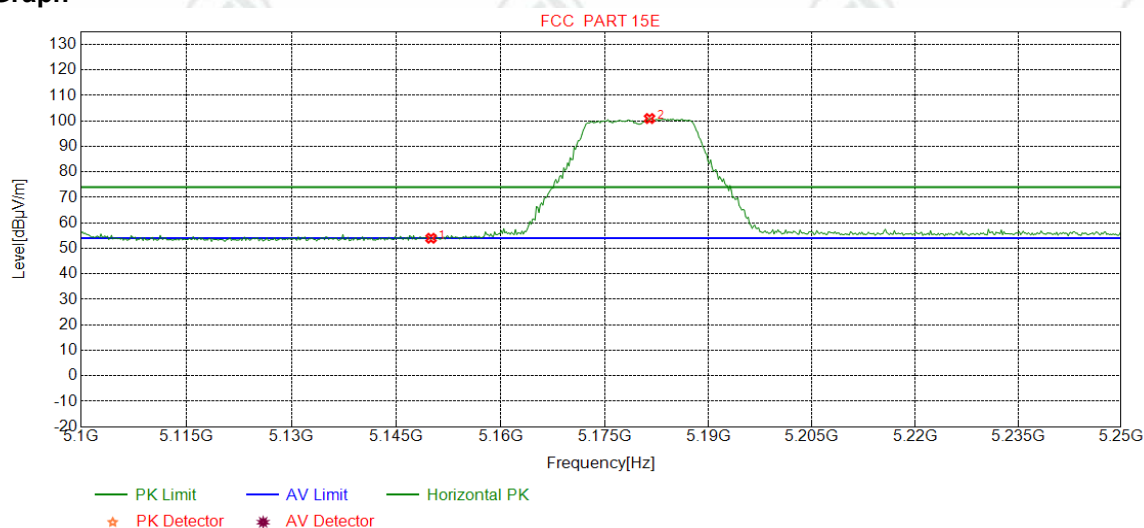
## Appendix H) Restricted bands around fundamental frequency (Radiated Emission)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |        |                  |            |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|------------------|------------|
| Receiver Setup: | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Detector            | RBW    | VBW              | Remark     |
|                 | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quasi-peak          | 120kHz | 300kHz           | Quasi-peak |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peak                | 1MHz   | 3MHz             | Peak       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Peak                | 1MHz   | 10Hz             | Average    |
| Test Procedure: | <p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |                     |        |                  |            |
| Limit:          | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limit (dBμV/m @3cm) |        | Remark           |            |
|                 | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40.0                |        | Quasi-peak Value |            |
|                 | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 43.5                |        | Quasi-peak Value |            |
|                 | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 46.0                |        | Quasi-peak Value |            |
|                 | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54.0                |        | Quasi-peak Value |            |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.0                |        | Average Value    |            |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 74.0                |        | Peak Value       |            |

Test plot as follows:

|         |                                |         |      |
|---------|--------------------------------|---------|------|
| Mode:   | 802.11a(HT20Mbps) Transmitting | Channel | 5180 |
| Remark: | PK                             |         |      |

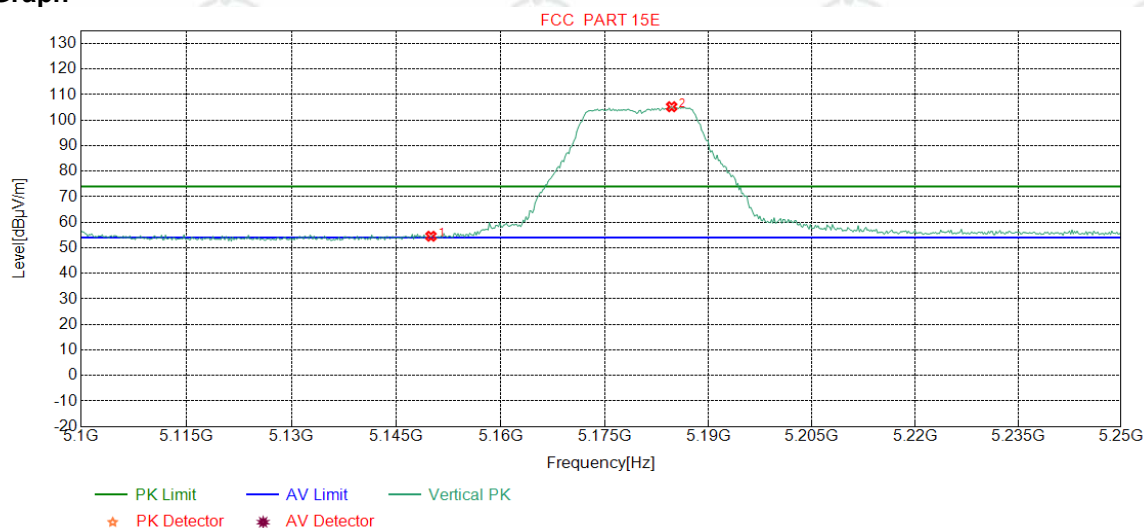
Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 46.99          | 53.98          | 74.00          | 20.02       | Pass   | Horizontal |
| 2  | 5181.4768   | 34.68           | 15.39           | -42.73          | 93.63          | 100.97         | 74.00          | -26.97      | Pass   | Horizontal |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | PK                             |          |      |

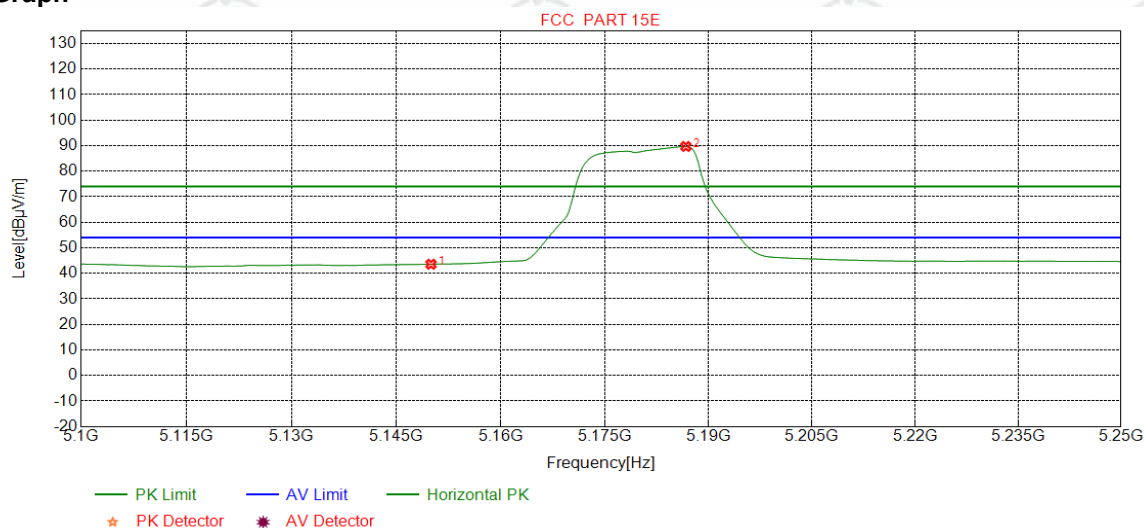
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 47.56          | 54.55          | 74.00          | 19.45       | Pass   | Vertical |
| 2  | 5184.6683   | 34.68           | 15.42           | -42.72          | 97.90          | 105.28         | 74.00          | -31.28      | Pass   | Vertical |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                             |          |      |

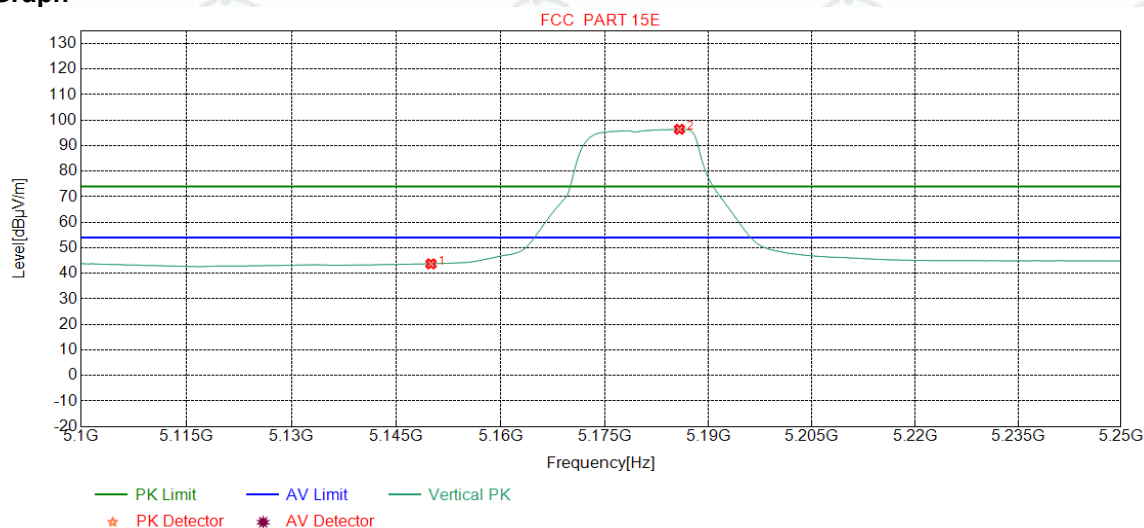
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 36.59          | 43.58          | 54.00          | 10.42       | Pass   | Horizontal |
| 2  | 5186.7334   | 34.69           | 15.44           | -42.73          | 82.31          | 89.71          | 54.00          | -35.71      | Pass   | Horizontal |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11a(HT20Mbps) Transmitting | Channel: | 5180 |
| Remark: | AV                             |          |      |

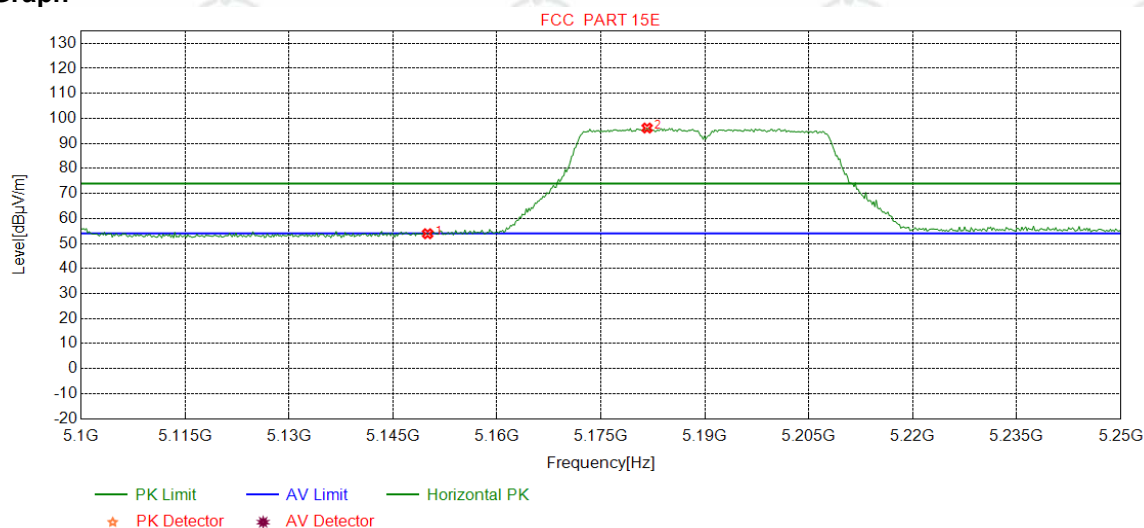
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 36.74          | 43.73          | 54.00          | 10.27       | Pass   | Vertical |
| 2  | 5185.7947   | 34.69           | 15.43           | -42.73          | 89.07          | 96.46          | 54.00          | -42.46      | Pass   | Vertical |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | PK                             |          |      |

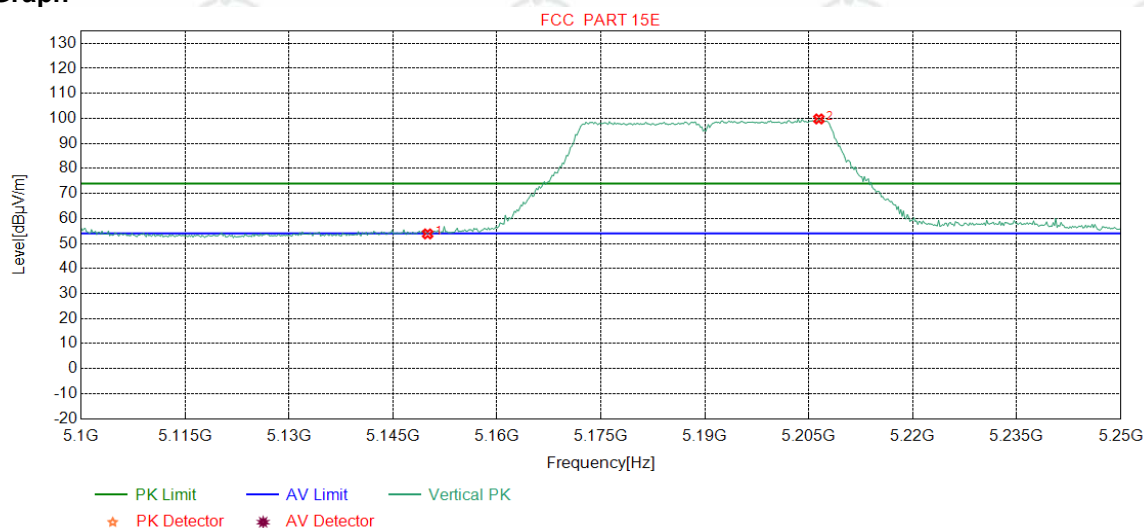
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 46.92          | 53.91          | 74.00          | 20.09       | Pass   | Horizontal |
| 2  | 5181.6646   | 34.68           | 15.39           | -42.73          | 88.82          | 96.16          | 74.00          | -22.16      | Pass   | Horizontal |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | PK                             |          |      |

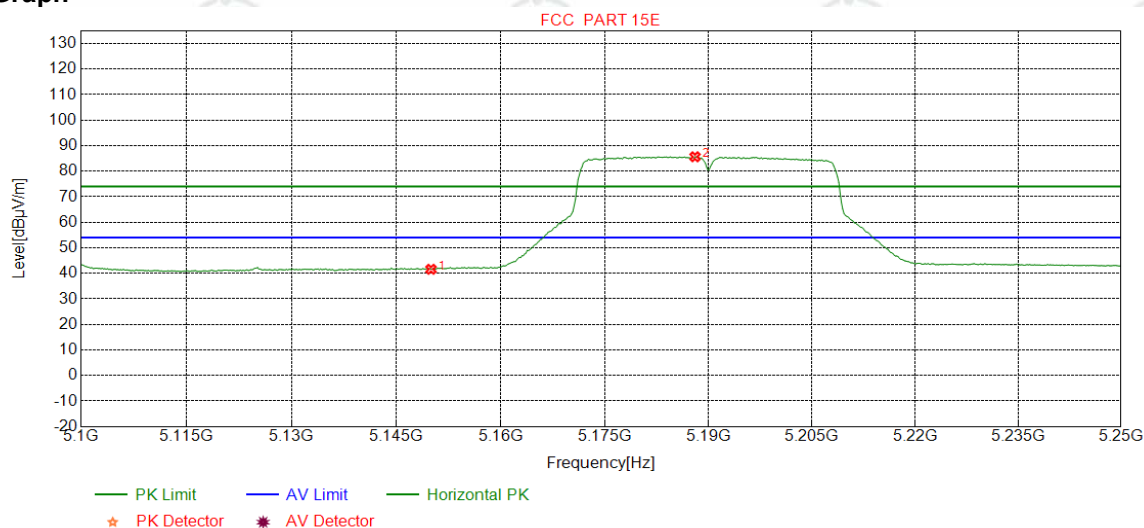
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 46.85          | 53.84          | 74.00          | 20.16       | Pass   | Vertical |
| 2  | 5206.4456   | 34.71           | 15.54           | -42.72          | 92.26          | 99.79          | 74.00          | -25.79      | Pass   | Vertical |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | AV                             |          |      |

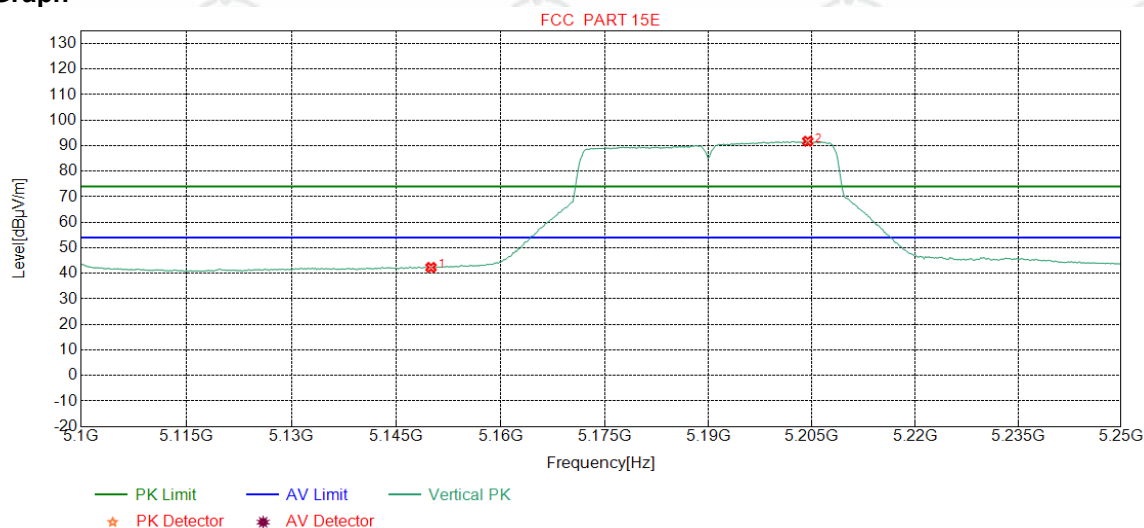
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 34.62          | 41.61          | 54.00          | 12.39       | Pass   | Horizontal |
| 2  | 5188.0476   | 34.69           | 15.45           | -42.72          | 78.25          | 85.67          | 54.00          | -31.67      | Pass   | Horizontal |

|         |                                |          |      |
|---------|--------------------------------|----------|------|
| Mode:   | 802.11n(HT40Mbps) Transmitting | Channel: | 5190 |
| Remark: | AV                             |          |      |

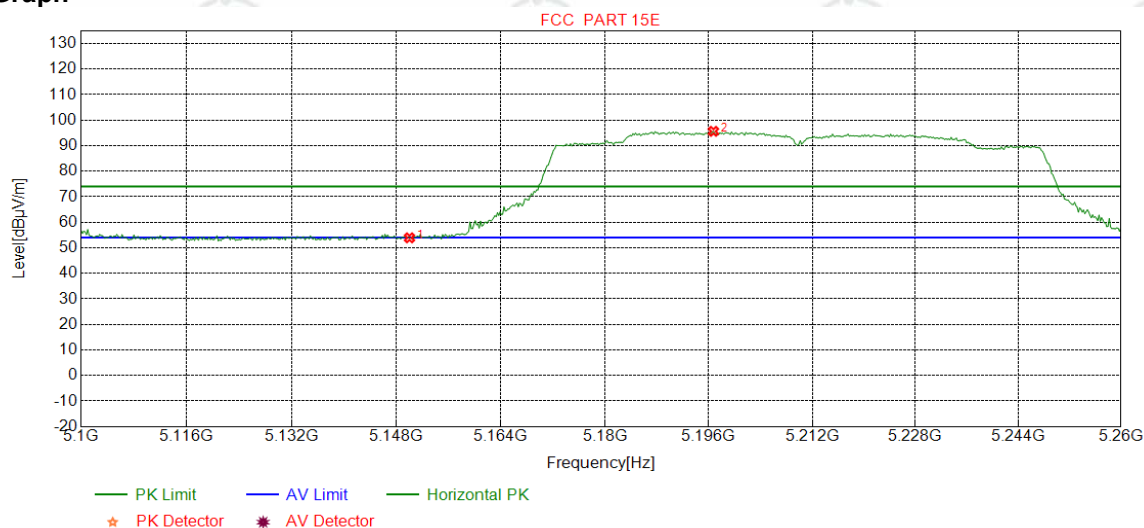
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 35.34          | 42.33          | 54.00          | 11.67       | Pass   | Vertical |
| 2  | 5204.3805   | 34.70           | 15.55           | -42.71          | 84.21          | 91.75          | 54.00          | -37.75      | Pass   | Vertical |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11ac(VHT80Mbps) Transmitting | Channel: | 5210 |
| Remark: | PK                               |          |      |

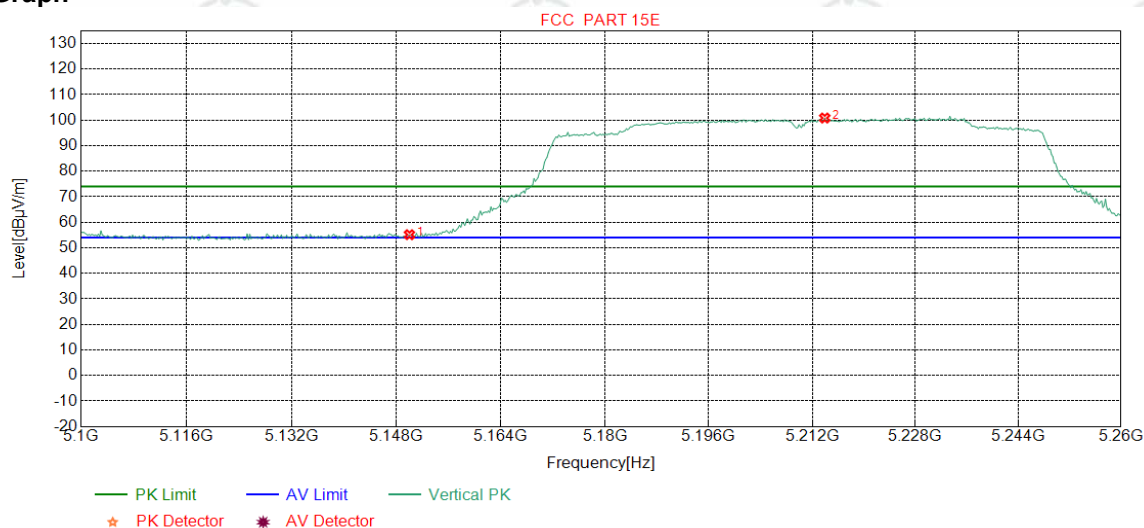
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 46.94          | 53.93          | 74.00          | 20.07       | Pass   | Horizontal |
| 2  | 5196.7209   | 34.70           | 15.54           | -42.73          | 88.13          | 95.64          | 74.00          | -21.64      | Pass   | Horizontal |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11ac(VHT80Mbps) Transmitting | Channel: | 5210 |
| Remark: | PK                               |          |      |

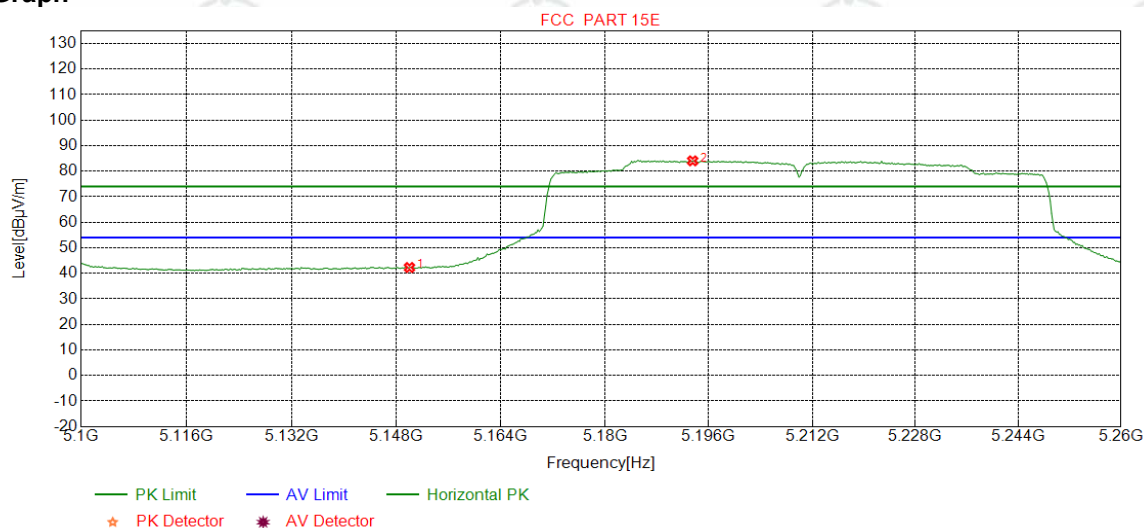
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 48.16          | 55.15          | 74.00          | 18.85       | Pass   | Vertical |
| 2  | 5213.9424   | 34.71           | 15.51           | -42.71          | 93.34          | 100.85         | 74.00          | -26.85      | Pass   | Vertical |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11ac(VHT80Mbps) Transmitting | Channel: | 5210 |
| Remark: | AV                               |          |      |

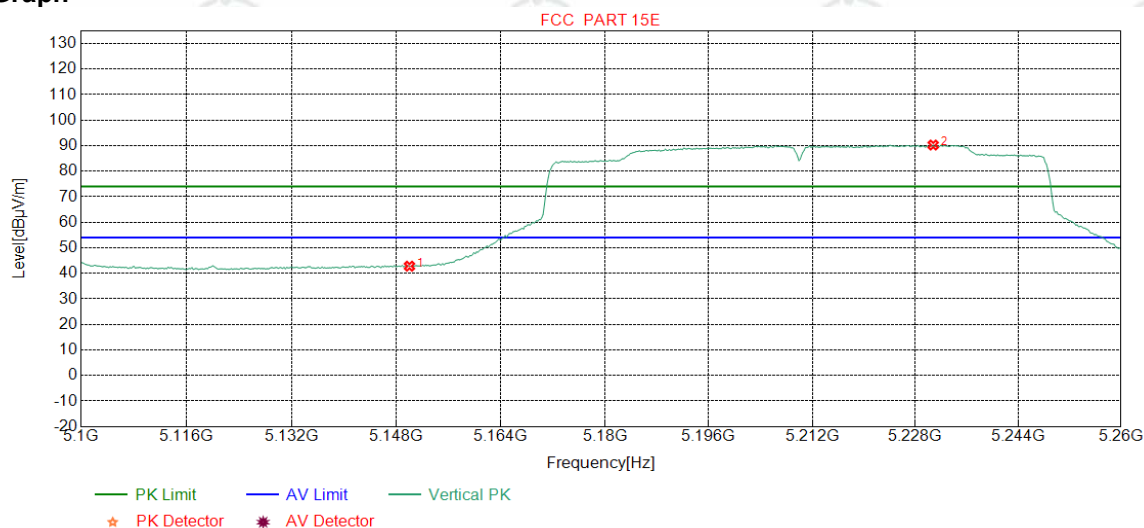
### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|------------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 35.32          | 42.31          | 54.00          | 11.69       | Pass   | Horizontal |
| 2  | 5193.5169   | 34.69           | 15.51           | -42.72          | 76.60          | 84.08          | 54.00          | -30.08      | Pass   | Horizontal |

|         |                                  |          |      |
|---------|----------------------------------|----------|------|
| Mode:   | 802.11ac(VHT80Mbps) Transmitting | Channel: | 5210 |
| Remark: | AV                               |          |      |

### Test Graph



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|
| 1  | 5150.0000   | 34.65           | 15.08           | -42.74          | 35.83          | 42.82          | 54.00          | 11.18       | Pass   | Vertical |
| 2  | 5230.7635   | 34.73           | 15.43           | -42.70          | 82.81          | 90.27          | 54.00          | -36.27      | Pass   | Vertical |

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

## Appendix I) Unwanted Emissions in the Restricted Bands (Radiated Emission)

|                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                 |            |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------|------------|---------------------------|
| Receiver Setup:                                                                                                                                                                                                                                                                    | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Detector                         | RBW             | VBW        | Remark                    |
|                                                                                                                                                                                                                                                                                    | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Peak                             | 10kHz           | 30kHz      | Peak                      |
|                                                                                                                                                                                                                                                                                    | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Average                          | 10kHz           | 30kHz      | Average                   |
|                                                                                                                                                                                                                                                                                    | 0.090MHz-0.110MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quasi-peak                       | 10kHz           | 30kHz      | Quasi-peak                |
|                                                                                                                                                                                                                                                                                    | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Peak                             | 10kHz           | 30kHz      | Peak                      |
|                                                                                                                                                                                                                                                                                    | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Average                          | 10kHz           | 30kHz      | Average                   |
|                                                                                                                                                                                                                                                                                    | 0.490MHz -30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quasi-peak                       | 10kHz           | 30kHz      | Quasi-peak                |
|                                                                                                                                                                                                                                                                                    | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quasi-peak                       | 120kHz          | 300kHz     | Quasi-peak                |
|                                                                                                                                                                                                                                                                                    | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Peak                             | 1MHz            | 3MHz       | Peak                      |
| Test Procedure:                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Peak                             | 1MHz            | 10Hz       | Average                   |
|                                                                                                                                                                                                                                                                                    | <p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre)</li> <li>Test the EUT in the lowest channel ,the middle channel ,the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |                                  |                 |            |                           |
| Limit:                                                                                                                                                                                                                                                                             | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Field strength (microvolt/meter) | Limit (dBμV/cm) | Remark     | Measurement distance (cm) |
|                                                                                                                                                                                                                                                                                    | 0.009MHz-0.490MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2400/F(kHz)                      | -               | -          | 300                       |
|                                                                                                                                                                                                                                                                                    | 0.490MHz-1.705MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24000/F(kHz)                     | -               | -          | 30                        |
|                                                                                                                                                                                                                                                                                    | 1.705MHz-30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                               | -               | -          | 30                        |
|                                                                                                                                                                                                                                                                                    | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100                              | 40.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                    | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 150                              | 43.5            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                    | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200                              | 46.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                    | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500                              | 54.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                    | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500                              | 54.0            | Average    | 3                         |
| <p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                 |            |                           |
| Test result:                                                                                                                                                                                                                                                                       | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                 |            |                           |

## Radiated Spurious Emissions test Data:

### Radiated Emission below 1GHz

| Mode: |                |                       | 802.11a(HT20Mbps)     |                       |                   |                   |                   | Channel:       |        | 5745     |        |
|-------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 46.2976        | 13.20                 | 0.76                  | -31.81                | 40.28             | 22.43             | 40.00             | 17.57          | Pass   | H        | PK     |
| 2     | 208.8859       | 11.13                 | 1.71                  | -31.94                | 42.27             | 23.17             | 43.50             | 20.33          | Pass   | H        | PK     |
| 3     | 304.0524       | 13.29                 | 2.07                  | -31.60                | 40.70             | 24.46             | 46.00             | 21.54          | Pass   | H        | PK     |
| 4     | 519.9960       | 17.40                 | 2.73                  | -31.93                | 38.10             | 26.30             | 46.00             | 19.70          | Pass   | H        | PK     |
| 5     | 600.0290       | 19.00                 | 2.96                  | -31.50                | 42.67             | 33.13             | 46.00             | 12.87          | Pass   | H        | PK     |
| 6     | 909.9750       | 22.16                 | 3.60                  | -31.48                | 34.74             | 29.02             | 46.00             | 16.98          | Pass   | H        | PK     |
| 7     | 46.2976        | 13.20                 | 0.76                  | -31.81                | 39.95             | 22.10             | 40.00             | 17.90          | Pass   | V        | PK     |
| 8     | 130.0170       | 7.70                  | 1.33                  | -32.02                | 45.66             | 22.67             | 43.50             | 20.83          | Pass   | V        | PK     |
| 9     | 195.0135       | 10.43                 | 1.64                  | -31.94                | 47.60             | 27.73             | 43.50             | 15.77          | Pass   | V        | PK     |
| 10    | 208.8859       | 11.13                 | 1.71                  | -31.94                | 44.39             | 25.29             | 43.50             | 18.21          | Pass   | V        | PK     |
| 11    | 600.0290       | 19.00                 | 2.96                  | -31.50                | 42.32             | 32.78             | 46.00             | 13.22          | Pass   | V        | PK     |
| 12    | 909.9750       | 22.16                 | 3.60                  | -31.48                | 35.76             | 30.04             | 46.00             | 15.96          | Pass   | V        | PK     |

**Transmitter Emission above 1GHz**

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5180     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1784.9285   | 30.28           | 3.86                         | -42.70          | 53.57          | 45.01          | 74.00          | 28.99       | Pass   | H        | PK     |
| 2     | 2385.5886   | 32.24           | 4.65                         | -43.13          | 54.14          | 47.90          | 74.00          | 26.10       | Pass   | H        | PK     |
| 3     | 3128.7129   | 33.25           | 5.50                         | -43.10          | 53.31          | 48.96          | 74.00          | 25.04       | Pass   | H        | PK     |
| 4     | 3757.9758   | 33.61           | 5.92                         | -43.05          | 52.88          | 49.36          | 74.00          | 24.64       | Pass   | H        | PK     |
| 5     | 6491.7492   | 35.90           | 8.64                         | -42.51          | 50.62          | 52.65          | 74.00          | 21.35       | Pass   | H        | PK     |
| 6     | 10360.000   | 38.30           | 7.29                         | -42.03          | 46.80          | 50.36          | 74.00          | 23.64       | Pass   | H        | PK     |
| 7     | 1281.6282   | 28.18           | 3.26                         | -42.80          | 53.58          | 42.22          | 74.00          | 31.78       | Pass   | V        | PK     |
| 8     | 2221.1221   | 32.01           | 4.43                         | -43.16          | 52.07          | 45.35          | 74.00          | 28.65       | Pass   | V        | PK     |
| 9     | 4164.4664   | 34.03           | 6.26                         | -42.93          | 50.30          | 47.66          | 74.00          | 26.34       | Pass   | V        | PK     |
| 10    | 6454.8955   | 35.89           | 8.48                         | -42.51          | 50.27          | 52.13          | 74.00          | 21.87       | Pass   | V        | PK     |
| 11    | 7545.4023   | 36.58           | 6.42                         | -42.11          | 49.02          | 49.91          | 74.00          | 24.09       | Pass   | V        | PK     |
| 12    | 8926.0463   | 37.54           | 6.88                         | -42.00          | 49.06          | 51.48          | 74.00          | 22.52       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5200     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1309.1309   | 28.21           | 3.33                         | -42.78          | 54.31          | 43.07          | 74.00          | 30.93       | Pass   | H        | PK     |
| 2     | 1708.4708   | 29.78           | 3.89                         | -42.67          | 54.03          | 45.03          | 74.00          | 28.97       | Pass   | H        | PK     |
| 3     | 2135.8636   | 31.89           | 4.40                         | -43.17          | 54.38          | 47.50          | 74.00          | 26.50       | Pass   | H        | PK     |
| 4     | 3403.7404   | 33.36           | 5.77                         | -43.10          | 52.65          | 48.68          | 74.00          | 25.32       | Pass   | H        | PK     |
| 5     | 6486.2486   | 35.90           | 8.61                         | -42.50          | 49.80          | 51.81          | 74.00          | 22.19       | Pass   | H        | PK     |
| 6     | 9220.4610   | 37.66           | 6.64                         | -42.05          | 49.65          | 51.90          | 74.00          | 22.10       | Pass   | H        | PK     |
| 7     | 1281.0781   | 28.18           | 3.26                         | -42.80          | 54.33          | 42.97          | 74.00          | 31.03       | Pass   | V        | PK     |
| 8     | 1776.1276   | 30.22           | 3.87                         | -42.70          | 51.65          | 43.04          | 74.00          | 30.96       | Pass   | V        | PK     |
| 9     | 2816.8317   | 32.91           | 5.03                         | -43.10          | 52.08          | 46.92          | 74.00          | 27.08       | Pass   | V        | PK     |
| 10    | 3757.9758   | 33.61           | 5.92                         | -43.05          | 52.31          | 48.79          | 74.00          | 25.21       | Pass   | V        | PK     |
| 11    | 6491.7492   | 35.90           | 8.64                         | -42.51          | 49.29          | 51.32          | 74.00          | 22.68       | Pass   | V        | PK     |
| 12    | 9098.5549   | 37.68           | 6.65                         | -42.02          | 49.34          | 51.65          | 74.00          | 22.35       | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5240     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1224.4224      | 28.12                 | 3.09                         | -42.86                | 53.11             | 41.46             | 74.00             | 32.54          | Pass   | H        | PK     |
| 2     | 1878.9879      | 30.90                 | 4.09                         | -42.90                | 52.83             | 44.92             | 74.00             | 29.08          | Pass   | H        | PK     |
| 3     | 2476.8977      | 32.37                 | 4.71                         | -43.11                | 53.05             | 47.02             | 74.00             | 26.98          | Pass   | H        | PK     |
| 4     | 3758.5259      | 33.61                 | 5.92                         | -43.05                | 52.63             | 49.11             | 74.00             | 24.89          | Pass   | H        | PK     |
| 5     | 6491.1991      | 35.90                 | 8.63                         | -42.50                | 49.47             | 51.50             | 74.00             | 22.50          | Pass   | H        | PK     |
| 6     | 9165.8333      | 37.67                 | 6.61                         | -42.03                | 48.94             | 51.19             | 74.00             | 22.81          | Pass   | H        | PK     |
| 7     | 1366.3366      | 28.27                 | 3.33                         | -42.72                | 51.84             | 40.72             | 74.00             | 33.28          | Pass   | V        | PK     |
| 8     | 1935.6436      | 31.28                 | 4.14                         | -43.04                | 52.11             | 44.49             | 74.00             | 29.51          | Pass   | V        | PK     |
| 9     | 2807.4807      | 32.89                 | 5.03                         | -43.10                | 52.39             | 47.21             | 74.00             | 26.79          | Pass   | V        | PK     |
| 10    | 4107.2607      | 33.95                 | 6.25                         | -42.96                | 50.19             | 47.43             | 74.00             | 26.57          | Pass   | V        | PK     |
| 11    | 6430.6931      | 35.89                 | 8.48                         | -42.52                | 50.27             | 52.12             | 74.00             | 21.88          | Pass   | V        | PK     |
| 12    | 9288.3144      | 37.64                 | 6.68                         | -42.05                | 49.44             | 51.71             | 74.00             | 22.29          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 n(HT40 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5190     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1376.2376      | 28.28                 | 3.33                         | -42.71                | 52.28             | 41.18             | 74.00             | 32.82          | Pass   | H        | PK     |
| 2     | 1708.4708      | 29.78                 | 3.89                         | -42.67                | 53.41             | 44.41             | 74.00             | 29.59          | Pass   | H        | PK     |
| 3     | 2107.2607      | 31.85                 | 4.53                         | -43.18                | 51.99             | 45.19             | 74.00             | 28.81          | Pass   | H        | PK     |
| 4     | 3412.5413      | 33.37                 | 5.76                         | -43.10                | 52.23             | 48.26             | 74.00             | 25.74          | Pass   | H        | PK     |
| 5     | 6477.9978      | 35.90                 | 8.58                         | -42.51                | 49.94             | 51.91             | 74.00             | 22.09          | Pass   | H        | PK     |
| 6     | 9092.2296      | 37.68                 | 6.67                         | -42.02                | 49.73             | 52.06             | 74.00             | 21.94          | Pass   | H        | PK     |
| 7     | 1366.8867      | 28.27                 | 3.33                         | -42.72                | 51.75             | 40.63             | 74.00             | 33.37          | Pass   | V        | PK     |
| 8     | 1780.5281      | 30.25                 | 3.87                         | -42.70                | 52.08             | 43.50             | 74.00             | 30.50          | Pass   | V        | PK     |
| 9     | 2982.3982      | 33.17                 | 5.30                         | -43.10                | 50.50             | 45.87             | 74.00             | 28.13          | Pass   | V        | PK     |
| 10    | 3843.7844      | 33.68                 | 6.29                         | -43.04                | 50.74             | 47.67             | 74.00             | 26.33          | Pass   | V        | PK     |
| 11    | 6491.7492      | 35.90                 | 8.64                         | -42.51                | 50.61             | 52.64             | 74.00             | 21.36          | Pass   | V        | PK     |
| 12    | 9746.6123      | 37.70                 | 6.86                         | -42.10                | 48.67             | 51.13             | 74.00             | 22.87          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 n(HT40 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5230     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1778.8779      | 30.24                 | 3.87                         | -42.70                | 57.57             | 48.98             | 74.00             | 25.02          | Pass   | H        | PK     |
| 2     | 2674.9175      | 32.68                 | 4.86                         | -43.10                | 58.20             | 52.64             | 74.00             | 21.36          | Pass   | H        | PK     |
| 3     | 2836.0836      | 32.94                 | 5.04                         | -43.11                | 58.00             | 52.87             | 74.00             | 21.13          | Pass   | H        | PK     |
| 4     | 6491.1991      | 35.90                 | 8.63                         | -42.50                | 51.24             | 53.27             | 74.00             | 20.73          | Pass   | H        | PK     |
| 5     | 8481.5491      | 36.59                 | 6.66                         | -42.00                | 49.15             | 50.40             | 74.00             | 23.60          | Pass   | H        | PK     |
| 6     | 9717.2859      | 37.69                 | 6.89                         | -42.11                | 48.33             | 50.80             | 74.00             | 23.20          | Pass   | H        | PK     |
| 7     | 1788.2288      | 30.30                 | 3.86                         | -42.70                | 52.29             | 43.75             | 74.00             | 30.25          | Pass   | V        | PK     |
| 8     | 2562.7063      | 32.50                 | 4.83                         | -43.10                | 57.65             | 51.88             | 74.00             | 22.12          | Pass   | V        | PK     |
| 9     | 2821.7822      | 32.91                 | 5.03                         | -43.09                | 58.42             | 53.27             | 74.00             | 20.73          | Pass   | V        | PK     |
| 10    | 4176.0176      | 34.05                 | 6.26                         | -42.93                | 52.79             | 50.17             | 74.00             | 23.83          | Pass   | V        | PK     |
| 11    | 6405.9406      | 35.88                 | 8.50                         | -42.51                | 50.10             | 51.97             | 74.00             | 22.03          | Pass   | V        | PK     |
| 12    | 8999.6500      | 37.70                 | 6.83                         | -42.00                | 48.62             | 51.15             | 74.00             | 22.85          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11ac(VHT80 )      |                       |                   |                   |                   | Channel:       |        | 5210     |        |
|-------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1366.8867      | 28.27                 | 3.33                  | -42.72                | 58.33             | 47.21             | 74.00             | 26.79          | Pass   | H        | PK     |
| 2     | 1926.2926      | 31.21                 | 4.16                  | -43.02                | 56.34             | 48.69             | 74.00             | 25.31          | Pass   | H        | PK     |
| 3     | 2836.6337      | 32.94                 | 5.04                  | -43.10                | 57.90             | 52.78             | 74.00             | 21.22          | Pass   | H        | PK     |
| 4     | 6491.7492      | 35.90                 | 8.64                  | -42.51                | 49.79             | 51.82             | 74.00             | 22.18          | Pass   | H        | PK     |
| 5     | 9142.2571      | 37.67                 | 6.62                  | -42.02                | 49.22             | 51.49             | 74.00             | 22.51          | Pass   | H        | PK     |
| 6     | 11246.287      | 38.75                 | 7.71                  | -42.00                | 48.40             | 52.86             | 74.00             | 21.14          | Pass   | H        | PK     |
| 7     | 1780.5281      | 30.25                 | 3.87                  | -42.70                | 52.38             | 43.80             | 74.00             | 30.20          | Pass   | V        | PK     |
| 8     | 2562.7063      | 32.50                 | 4.83                  | -43.10                | 56.93             | 51.16             | 74.00             | 22.84          | Pass   | V        | PK     |
| 9     | 2830.0330      | 32.93                 | 5.04                  | -43.11                | 58.69             | 53.55             | 74.00             | 20.45          | Pass   | V        | PK     |
| 10    | 4161.7162      | 34.03                 | 6.26                  | -42.94                | 52.77             | 50.12             | 74.00             | 23.88          | Pass   | V        | PK     |
| 11    | 6405.9406      | 35.88                 | 8.50                  | -42.51                | 49.86             | 51.73             | 74.00             | 22.27          | Pass   | V        | PK     |
| 12    | 8925.4713      | 37.54                 | 6.88                  | -42.00                | 49.22             | 51.64             | 74.00             | 22.36          | Pass   | V        | PK     |

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5745     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 2135.3135   | 31.89           | 3.71                         | -43.17          | 56.44          | 48.87          | 74.00          | 25.13       | Pass   | H        | PK     |
| 2     | 2562.1562   | 32.50           | 4.34                         | -43.10          | 57.54          | 51.28          | 74.00          | 22.72       | Pass   | H        | PK     |
| 3     | 2979.6480   | 33.17           | 4.57                         | -43.10          | 57.09          | 51.73          | 74.00          | 22.27       | Pass   | H        | PK     |
| 4     | 4159.5160   | 34.02           | 5.36                         | -42.94          | 51.38          | 47.82          | 74.00          | 26.18       | Pass   | H        | PK     |
| 5     | 6491.7492   | 35.90           | 7.49                         | -42.50          | 49.15          | 50.04          | 74.00          | 23.96       | Pass   | H        | PK     |
| 6     | 9154.3770   | 37.67           | 6.62                         | -42.03          | 49.05          | 51.31          | 74.00          | 22.69       | Pass   | H        | PK     |
| 7     | 1777.2277   | 30.23           | 3.32                         | -42.70          | 52.34          | 43.19          | 74.00          | 30.81       | Pass   | V        | PK     |
| 8     | 2562.1562   | 32.50           | 4.34                         | -43.10          | 53.28          | 47.02          | 74.00          | 26.98       | Pass   | V        | PK     |
| 9     | 2833.3333   | 32.93           | 4.43                         | -43.10          | 57.91          | 52.17          | 74.00          | 21.83       | Pass   | V        | PK     |
| 10    | 4163.3663   | 34.03           | 5.36                         | -42.94          | 52.57          | 49.02          | 74.00          | 24.98       | Pass   | V        | PK     |
| 11    | 6491.7492   | 35.90           | 7.49                         | -42.50          | 50.53          | 51.42          | 74.00          | 22.58       | Pass   | V        | PK     |
| 12    | 9169.7113   | 37.67           | 6.61                         | -42.04          | 49.33          | 51.57          | 74.00          | 22.43       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5785     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1338.8339   | 28.24           | 2.94                         | -42.75          | 56.56          | 44.99          | 74.00          | 29.01       | Pass   | H        | PK     |
| 2     | 2562.7063   | 32.50           | 4.34                         | -43.10          | 58.14          | 51.88          | 74.00          | 22.12       | Pass   | H        | PK     |
| 3     | 2835.5336   | 32.94           | 4.44                         | -43.11          | 57.69          | 51.96          | 74.00          | 22.04       | Pass   | H        | PK     |
| 4     | 5015.9516   | 34.52           | 5.95                         | -42.79          | 50.86          | 48.54          | 74.00          | 25.46       | Pass   | H        | PK     |
| 5     | 6491.7492   | 35.90           | 7.49                         | -42.50          | 50.84          | 51.73          | 74.00          | 22.27       | Pass   | H        | PK     |
| 6     | 9146.7098   | 37.67           | 6.62                         | -42.03          | 49.59          | 51.85          | 74.00          | 22.15       | Pass   | H        | PK     |
| 7     | 1788.2288   | 30.30           | 3.33                         | -42.70          | 54.69          | 45.62          | 74.00          | 28.38       | Pass   | V        | PK     |
| 8     | 2810.2310   | 32.90           | 4.35                         | -43.11          | 58.25          | 52.39          | 74.00          | 21.61       | Pass   | V        | PK     |
| 9     | 4165.5666   | 34.03           | 5.36                         | -42.93          | 52.07          | 48.53          | 74.00          | 25.47       | Pass   | V        | PK     |
| 10    | 5020.9021   | 34.52           | 5.95                         | -42.79          | 50.29          | 47.97          | 74.00          | 26.03       | Pass   | V        | PK     |
| 11    | 6491.1991   | 35.90           | 7.48                         | -42.50          | 50.82          | 51.70          | 74.00          | 22.30       | Pass   | V        | PK     |
| 12    | 7582.6055   | 36.57           | 6.63                         | -42.12          | 49.26          | 50.34          | 74.00          | 23.66       | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5825     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1184.8185      | 28.08                 | 2.82                         | -42.90                | 60.08             | 48.08             | 74.00             | 25.92          | Pass   | H        | PK     |
| 2     | 1931.2431      | 31.25                 | 3.59                         | -43.03                | 57.40             | 49.21             | 74.00             | 24.79          | Pass   | H        | PK     |
| 3     | 2562.7063      | 32.50                 | 4.34                         | -43.10                | 59.12             | 52.86             | 74.00             | 21.14          | Pass   | H        | PK     |
| 4     | 2967.5468      | 33.15                 | 4.57                         | -43.10                | 58.47             | 53.09             | 74.00             | 20.91          | Pass   | H        | PK     |
| 5     | 6491.7492      | 35.90                 | 7.49                         | -42.50                | 49.76             | 50.65             | 74.00             | 23.35          | Pass   | H        | PK     |
| 6     | 9131.3754      | 37.67                 | 6.63                         | -42.02                | 49.50             | 51.78             | 74.00             | 22.22          | Pass   | H        | PK     |
| 7     | 1784.9285      | 30.28                 | 3.33                         | -42.70                | 52.71             | 43.62             | 74.00             | 30.38          | Pass   | V        | PK     |
| 8     | 2562.1562      | 32.50                 | 4.34                         | -43.10                | 53.90             | 47.64             | 74.00             | 26.36          | Pass   | V        | PK     |
| 9     | 2834.4334      | 32.94                 | 4.43                         | -43.10                | 58.84             | 53.11             | 74.00             | 20.89          | Pass   | V        | PK     |
| 10    | 3758.5259      | 33.61                 | 5.00                         | -43.05                | 51.37             | 46.93             | 74.00             | 27.07          | Pass   | V        | PK     |
| 11    | 6491.1991      | 35.90                 | 7.48                         | -42.50                | 50.76             | 51.64             | 74.00             | 22.36          | Pass   | V        | PK     |
| 12    | 9000.2667      | 37.70                 | 6.83                         | -42.00                | 49.21             | 51.74             | 74.00             | 22.26          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 n(HT40 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5755     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1933.9934      | 31.26                 | 3.60                         | -43.04                | 54.80             | 46.62             | 74.00             | 27.38          | Pass   | H        | PK     |
| 2     | 2562.1562      | 32.50                 | 4.34                         | -43.10                | 56.52             | 50.26             | 74.00             | 23.74          | Pass   | H        | PK     |
| 3     | 2810.2310      | 32.90                 | 4.35                         | -43.11                | 58.00             | 52.14             | 74.00             | 21.86          | Pass   | H        | PK     |
| 4     | 4527.5028      | 34.50                 | 5.84                         | -42.80                | 50.90             | 48.44             | 74.00             | 25.56          | Pass   | H        | PK     |
| 5     | 6491.1991      | 35.90                 | 7.48                         | -42.50                | 49.94             | 50.82             | 74.00             | 23.18          | Pass   | H        | PK     |
| 6     | 7877.0251      | 36.45                 | 6.58                         | -42.18                | 49.15             | 50.00             | 74.00             | 24.00          | Pass   | H        | PK     |
| 7     | 1787.6788      | 30.30                 | 3.33                         | -42.71                | 52.23             | 43.15             | 74.00             | 30.85          | Pass   | V        | PK     |
| 8     | 2562.7063      | 32.50                 | 4.34                         | -43.10                | 54.22             | 47.96             | 74.00             | 26.04          | Pass   | V        | PK     |
| 9     | 2833.3333      | 32.93                 | 4.43                         | -43.10                | 59.10             | 53.36             | 74.00             | 20.64          | Pass   | V        | PK     |
| 10    | 4163.9164      | 34.03                 | 5.36                         | -42.93                | 52.47             | 48.93             | 74.00             | 25.07          | Pass   | V        | PK     |
| 11    | 6491.7492      | 35.90                 | 7.49                         | -42.50                | 51.08             | 51.97             | 74.00             | 22.03          | Pass   | V        | PK     |
| 12    | 8986.4658      | 37.67                 | 6.84                         | -42.00                | 49.17             | 51.68             | 74.00             | 22.32          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 n(HT40 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5795     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1281.0781      | 28.18                 | 2.90                         | -42.81                | 59.02             | 47.29             | 74.00             | 26.71          | Pass   | H        | PK     |
| 2     | 2050.0550      | 31.77                 | 3.65                         | -43.19                | 56.82             | 49.05             | 74.00             | 24.95          | Pass   | H        | PK     |
| 3     | 2562.7063      | 32.50                 | 4.34                         | -43.10                | 58.85             | 52.59             | 74.00             | 21.41          | Pass   | H        | PK     |
| 4     | 4178.2178      | 34.05                 | 5.37                         | -42.93                | 51.50             | 47.99             | 74.00             | 26.01          | Pass   | H        | PK     |
| 5     | 6491.1991      | 35.90                 | 7.48                         | -42.50                | 50.19             | 51.07             | 74.00             | 22.93          | Pass   | H        | PK     |
| 6     | 9214.9477      | 37.66                 | 6.63                         | -42.05                | 49.12             | 51.36             | 74.00             | 22.64          | Pass   | H        | PK     |
| 7     | 1854.2354      | 30.74                 | 3.56                         | -42.84                | 50.71             | 42.17             | 74.00             | 31.83          | Pass   | V        | PK     |
| 8     | 2562.1562      | 32.50                 | 4.34                         | -43.10                | 54.21             | 47.95             | 74.00             | 26.05          | Pass   | V        | PK     |
| 9     | 2809.1309      | 32.89                 | 4.34                         | -43.09                | 58.31             | 52.45             | 74.00             | 21.55          | Pass   | V        | PK     |
| 10    | 4143.5644      | 34.00                 | 5.36                         | -42.95                | 52.91             | 49.32             | 74.00             | 24.68          | Pass   | V        | PK     |
| 11    | 6884.8923      | 36.05                 | 6.44                         | -42.27                | 49.76             | 49.98             | 74.00             | 24.02          | Pass   | V        | PK     |
| 12    | 9137.5092      | 37.67                 | 6.63                         | -42.03                | 48.99             | 51.26             | 74.00             | 22.74          | Pass   | V        | PK     |

**Radiated Emission above 18GHz:**

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5745     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 19916.716      | 38.97                 | 0.00                         | -62.26                | 69.18             | 45.89             | 74.00             | 28.11          | Pass   | H        | PK     |
| 2     | 21206.848      | 38.56                 | 0.00                         | -63.20                | 69.78             | 45.14             | 74.00             | 28.86          | Pass   | H        | PK     |
| 3     | 24386.415      | 40.38                 | 0.00                         | -60.27                | 66.61             | 46.72             | 74.00             | 27.28          | Pass   | H        | PK     |
| 4     | 26953.478      | 40.38                 | 0.00                         | -60.51                | 67.45             | 47.32             | 74.00             | 26.68          | Pass   | H        | PK     |
| 5     | 31404.696      | 41.58                 | 0.00                         | -58.98                | 65.25             | 47.85             | 74.00             | 26.15          | Pass   | H        | PK     |
| 6     | 35554.942      | 43.11                 | 0.00                         | -57.84                | 63.51             | 48.78             | 74.00             | 25.22          | Pass   | H        | PK     |
| 7     | 19682.627      | 38.97                 | 0.00                         | -62.78                | 69.70             | 45.89             | 74.00             | 28.11          | Pass   | V        | PK     |
| 8     | 21836.953      | 38.36                 | 0.00                         | -63.15                | 70.13             | 45.34             | 74.00             | 28.66          | Pass   | V        | PK     |
| 9     | 24388.175      | 40.38                 | 0.00                         | -60.26                | 66.74             | 46.86             | 74.00             | 27.14          | Pass   | V        | PK     |
| 10    | 26602.344      | 40.39                 | 0.00                         | -59.81                | 67.33             | 47.91             | 74.00             | 26.09          | Pass   | V        | PK     |
| 11    | 29916.556      | 40.80                 | 0.00                         | -60.41                | 67.46             | 47.85             | 74.00             | 26.15          | Pass   | V        | PK     |
| 12    | 33332.853      | 42.13                 | 0.00                         | -58.23                | 64.84             | 48.74             | 74.00             | 25.26          | Pass   | V        | PK     |

**Note:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## Appendix J) Unwanted Emissions that fall Outside of the Restricted Bands

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |              |                   |                              |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------------|------------------------------|--------|
| Receiver Setup:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |              |                   |                              |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Frequency                               | Detector     | RBW               | VBW                          | Remark |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Above 1GHz                              | Peak         | 1MHz              | 3MHz                         | Peak   |
| Test Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |              |                   |                              |        |
| <p>a) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b)The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f) Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>j) Test the EUT in the lowest channel or/and the middle channel ,the Highest channel</p> <p>h) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i) Repeat above procedures until all frequencies measured was complete.</p> |                                         |              |                   |                              |        |
| Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |              |                   |                              |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Transmitter Operation<br>Frequency(MHz) | Limit (EIRP) | Limit (dBμV/m)@3m | Measurement<br>distance (cm) |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5150-5350                               | -27dBm/MHz   | 68.2dBuV/m        | 3                            |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5470-5725                               | -27dBm/MHz   | 68.2dBuV/m        | 3                            |        |
| <p>Note:</p> <p>(i) <math>EIRP = ((E*d)^2) / 30</math><br/>where:</p> <ul style="list-style-type: none"><li>• E is the field strength in V/m;</li><li>• d is the measurement distance in meters;</li><li>• EIRP is the equivalent isotropically radiated power in watts.</li></ul> <p>(ii) Working in dB units, the above equation is equivalent to:<br/><math>EIRP[dBm] = E[dBμV/m] + 20 \log(d[meters]) - 104.77</math></p> <p>(iii) Or, if d is 3 meters:<br/><math>EIRP[dBm] = E[dBμV/m] - 95.2</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |              |                   |                              |        |
| Test result:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PASS                                    |              |                   |                              |        |

**Test Data:**

For the all emission,out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit. Refer to test item"Unwanted Emissions in the Restricted Bands (Radiated Emission)" test result.

**Radiated Emission above 68.2GHz:**

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5180     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1784.9285   | 30.28           | 3.86                         | -42.70          | 53.57          | 45.01          | 68.20          | 23.19       | Pass   | H        | PK     |
| 2     | 3114.4114   | 33.25           | 5.51                         | -43.10          | 52.47          | 48.13          | 68.20          | 20.07       | Pass   | H        | PK     |
| 3     | 5172.1672   | 34.67           | 7.54                         | -42.73          | 57.37          | 56.85          | 68.20          | 11.35       | Pass   | H        | PK     |
| 4     | 6491.7492   | 35.90           | 8.64                         | -42.51          | 50.62          | 52.65          | 68.20          | 15.55       | Pass   | H        | PK     |
| 5     | 9725.9113   | 37.69           | 6.88                         | -42.10          | 48.83          | 51.30          | 68.20          | 16.90       | Pass   | H        | PK     |
| 6     | 13165.1583  | 39.53           | 7.81                         | -41.86          | 49.93          | 55.41          | 68.20          | 12.79       | Pass   | H        | PK     |
| 7     | 1784.9285   | 30.28           | 3.86                         | -42.70          | 51.21          | 42.65          | 68.20          | 25.55       | Pass   | V        | PK     |
| 8     | 3084.1584   | 33.23           | 5.51                         | -43.09          | 51.01          | 46.66          | 68.20          | 21.54       | Pass   | V        | PK     |
| 9     | 4164.4664   | 34.03           | 6.26                         | -42.93          | 50.30          | 47.66          | 68.20          | 20.54       | Pass   | V        | PK     |
| 10    | 5173.2673   | 34.67           | 7.54                         | -42.73          | 60.72          | 60.20          | 68.20          | 8.00        | Pass   | V        | PK     |
| 11    | 7545.4023   | 36.58           | 6.42                         | -42.11          | 49.02          | 49.91          | 68.20          | 18.29       | Pass   | V        | PK     |
| 12    | 11243.4122  | 38.75           | 7.70                         | -42.00          | 49.17          | 53.62          | 68.20          | 14.58       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5200     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1386.1386   | 28.29           | 3.33                         | -42.70          | 53.85          | 42.77          | 68.20          | 25.43       | Pass   | H        | PK     |
| 2     | 2135.8636   | 31.89           | 4.40                         | -43.17          | 54.38          | 47.50          | 68.20          | 20.70       | Pass   | H        | PK     |
| 3     | 3403.7404   | 33.36           | 5.77                         | -43.10          | 52.65          | 48.68          | 68.20          | 19.52       | Pass   | H        | PK     |
| 4     | 5206.8207   | 34.71           | 7.44                         | -42.72          | 58.20          | 57.63          | 68.20          | 10.57       | Pass   | H        | PK     |
| 5     | 9220.4610   | 37.66           | 6.64                         | -42.05          | 49.65          | 51.90          | 68.20          | 16.30       | Pass   | H        | PK     |
| 6     | 11253.187   | 38.75           | 7.71                         | -41.99          | 48.68          | 53.15          | 68.20          | 15.05       | Pass   | H        | PK     |
| 7     | 1453.2453   | 28.35           | 3.44                         | -42.91          | 51.29          | 40.17          | 68.20          | 28.03       | Pass   | V        | PK     |
| 8     | 2476.8977   | 32.37           | 4.71                         | -43.11          | 51.79          | 45.76          | 68.20          | 22.44       | Pass   | V        | PK     |
| 9     | 3757.9758   | 33.61           | 5.92                         | -43.05          | 52.31          | 48.79          | 68.20          | 19.41       | Pass   | V        | PK     |
| 10    | 5207.3707   | 34.71           | 7.44                         | -42.72          | 61.63          | 61.06          | 68.20          | 7.14        | Pass   | V        | PK     |
| 11    | 8447.0474   | 36.58           | 6.70                         | -42.02          | 48.76          | 50.02          | 68.20          | 18.18       | Pass   | V        | PK     |
| 12    | 11830.516   | 39.16           | 7.69                         | -41.93          | 49.52          | 54.44          | 68.20          | 13.76       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11 a(HT20 ) Transmitting |                 |                |                |                | Channel:    |        | 5240     |        |
|-------|-------------|-----------------|------------------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]              | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1638.0638   | 29.31           | 3.78                         | -42.81          | 51.95          | 42.23          | 68.20          | 25.97       | Pass   | H        | PK     |
| 2     | 2813.5314   | 32.90           | 5.03                         | -43.10          | 51.26          | 46.09          | 68.20          | 22.11       | Pass   | H        | PK     |
| 3     | 3758.5259   | 33.61           | 5.92                         | -43.05          | 52.63          | 49.11          | 68.20          | 19.09       | Pass   | H        | PK     |
| 4     | 5233.2233   | 34.73           | 7.45                         | -42.71          | 57.10          | 56.57          | 68.20          | 11.63       | Pass   | H        | PK     |
| 5     | 7442.4721   | 36.54           | 6.48                         | -42.11          | 48.65          | 49.56          | 68.20          | 18.64       | Pass   | H        | PK     |
| 6     | 11230.761   | 38.74           | 7.66                         | -42.00          | 49.21          | 53.61          | 68.20          | 14.59       | Pass   | H        | PK     |
| 7     | 1935.6436   | 31.28           | 4.14                         | -43.04          | 52.11          | 44.49          | 68.20          | 23.71       | Pass   | V        | PK     |
| 8     | 2674.3674   | 32.68           | 4.86                         | -43.10          | 52.00          | 46.44          | 68.20          | 21.76       | Pass   | V        | PK     |
| 9     | 4107.2607   | 33.95           | 6.25                         | -42.96          | 50.19          | 47.43          | 68.20          | 20.77       | Pass   | V        | PK     |
| 10    | 5232.6733   | 34.73           | 7.45                         | -42.71          | 63.34          | 62.81          | 68.20          | 5.39        | Pass   | V        | PK     |
| 11    | 6430.6931   | 35.89           | 8.48                         | -42.52          | 50.27          | 52.12          | 68.20          | 16.08       | Pass   | V        | PK     |
| 12    | 9288.3144   | 37.64           | 6.68                         | -42.05          | 49.44          | 51.71          | 68.20          | 16.49       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11n(HT40 )  |                 |                |                |                | Channel:    |        | 5190     |        |
|-------|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1708.4708   | 29.78           | 3.89            | -42.67          | 53.41          | 44.41          | 68.20          | 23.79       | Pass   | H        | PK     |
| 2     | 2107.2607   | 31.85           | 4.53            | -43.18          | 51.99          | 45.19          | 68.20          | 23.01       | Pass   | H        | PK     |
| 3     | 3412.5413   | 33.37           | 5.76            | -43.10          | 52.23          | 48.26          | 68.20          | 19.94       | Pass   | H        | PK     |
| 4     | 5194.1694   | 34.69           | 7.46            | -42.72          | 53.90          | 53.33          | 68.20          | 14.87       | Pass   | H        | PK     |
| 5     | 6477.9978   | 35.90           | 8.58            | -42.51          | 49.94          | 51.91          | 68.20          | 16.29       | Pass   | H        | PK     |
| 6     | 9092.2296   | 37.68           | 6.67            | -42.02          | 49.73          | 52.06          | 68.20          | 16.14       | Pass   | H        | PK     |
| 7     | 1780.5281   | 30.25           | 3.87            | -42.70          | 52.08          | 43.50          | 68.20          | 24.70       | Pass   | V        | PK     |
| 8     | 2982.3982   | 33.17           | 5.30            | -43.10          | 50.50          | 45.87          | 68.20          | 22.33       | Pass   | V        | PK     |
| 9     | 4607.2607   | 34.50           | 6.76            | -42.80          | 49.93          | 48.39          | 68.20          | 19.81       | Pass   | V        | PK     |
| 10    | 5207.9208   | 34.71           | 7.44            | -42.72          | 57.59          | 57.02          | 68.20          | 11.18       | Pass   | V        | PK     |
| 11    | 6491.7492   | 35.90           | 8.64            | -42.51          | 50.61          | 52.64          | 68.20          | 15.56       | Pass   | V        | PK     |
| 12    | 8896.7198   | 37.47           | 6.91            | -42.00          | 48.65          | 51.03          | 68.20          | 17.17       | Pass   | V        | PK     |

| Mode: |                |                       | 802.11n(HT40 )        |                       |                   |                   |                   | Channel:       |        | 5230     |        |
|-------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1366.8867      | 28.27                 | 3.33                  | -42.72                | 57.38             | 46.26             | 68.20             | 21.94          | Pass   | H        | PK     |
| 2     | 1778.8779      | 30.24                 | 3.87                  | -42.70                | 57.57             | 48.98             | 68.20             | 19.22          | Pass   | H        | PK     |
| 3     | 3117.1617      | 33.25                 | 5.51                  | -43.10                | 55.98             | 51.64             | 68.20             | 16.56          | Pass   | H        | PK     |
| 4     | 5220.0220      | 34.72                 | 7.44                  | -42.71                | 56.44             | 55.89             | 68.20             | 12.31          | Pass   | H        | PK     |
| 5     | 6349.2849      | 35.87                 | 8.69                  | -42.53                | 49.45             | 51.48             | 68.20             | 16.72          | Pass   | H        | PK     |
| 6     | 8481.5491      | 36.59                 | 6.66                  | -42.00                | 49.15             | 50.40             | 68.20             | 17.80          | Pass   | H        | PK     |
| 7     | 1788.2288      | 30.30                 | 3.86                  | -42.70                | 52.29             | 43.75             | 68.20             | 24.45          | Pass   | V        | PK     |
| 8     | 2821.7822      | 32.91                 | 5.03                  | -43.09                | 58.42             | 53.27             | 68.20             | 14.93          | Pass   | V        | PK     |
| 9     | 4176.0176      | 34.05                 | 6.26                  | -42.93                | 52.79             | 50.17             | 68.20             | 18.03          | Pass   | V        | PK     |
| 10    | 5214.5215      | 34.71                 | 7.44                  | -42.71                | 62.74             | 62.18             | 68.20             | 6.02           | Pass   | V        | PK     |
| 11    | 6405.9406      | 35.88                 | 8.50                  | -42.51                | 50.10             | 51.97             | 68.20             | 16.23          | Pass   | V        | PK     |
| 12    | 9224.4862      | 37.66                 | 6.64                  | -42.05                | 48.92             | 51.17             | 68.20             | 17.03          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11ac(VHT80 )      |                       |                   |                   |                   | Channel:       |        | 5210     |        |
|-------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1366.8867      | 28.27                 | 3.33                  | -42.72                | 58.33             | 47.21             | 68.20             | 20.99          | Pass   | H        | PK     |
| 2     | 2686.4686      | 32.70                 | 4.88                  | -43.11                | 58.41             | 52.88             | 68.20             | 15.32          | Pass   | H        | PK     |
| 3     | 5213.9714      | 34.71                 | 7.44                  | -42.71                | 55.30             | 54.74             | 68.20             | 13.46          | Pass   | H        | PK     |
| 4     | 6491.7492      | 35.90                 | 8.64                  | -42.51                | 49.79             | 51.82             | 68.20             | 16.38          | Pass   | H        | PK     |
| 5     | 9142.2571      | 37.67                 | 6.62                  | -42.02                | 49.22             | 51.49             | 68.20             | 16.71          | Pass   | H        | PK     |
| 6     | 11246.287      | 38.75                 | 7.71                  | -42.00                | 48.40             | 52.86             | 68.20             | 15.34          | Pass   | H        | PK     |
| 7     | 2562.7063      | 32.50                 | 4.83                  | -43.10                | 56.93             | 51.16             | 68.20             | 17.04          | Pass   | V        | PK     |
| 8     | 2830.0330      | 32.93                 | 5.04                  | -43.11                | 58.69             | 53.55             | 68.20             | 14.65          | Pass   | V        | PK     |
| 9     | 4161.7162      | 34.03                 | 6.26                  | -42.94                | 52.77             | 50.12             | 68.20             | 18.08          | Pass   | V        | PK     |
| 10    | 5217.2717      | 34.72                 | 7.44                  | -42.71                | 60.45             | 59.90             | 68.20             | 8.30           | Pass   | V        | PK     |
| 11    | 6405.9406      | 35.88                 | 8.50                  | -42.51                | 49.86             | 51.73             | 68.20             | 16.47          | Pass   | V        | PK     |
| 12    | 8925.4713      | 37.54                 | 6.88                  | -42.00                | 49.22             | 51.64             | 68.20             | 16.56          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5745     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 2135.3135      | 31.89                 | 3.71                         | -43.17                | 56.44             | 48.87             | 68.20             | 19.33          | Pass   | H        | PK     |
| 2     | 2833.3333      | 32.93                 | 4.43                         | -43.10                | 58.47             | 52.73             | 68.20             | 15.47          | Pass   | H        | PK     |
| 3     | 2971.3971      | 33.15                 | 4.57                         | -43.09                | 57.44             | 52.07             | 68.20             | 16.13          | Pass   | H        | PK     |
| 4     | 5737.6238      | 35.38                 | 6.99                         | -42.60                | 58.29             | 58.06             | 68.20             | 10.14          | Pass   | H        | PK     |
| 5     | 7632.4422      | 36.55                 | 6.43                         | -42.13                | 49.36             | 50.21             | 68.20             | 17.99          | Pass   | H        | PK     |
| 6     | 10297.553      | 38.22                 | 7.18                         | -42.04                | 49.02             | 52.38             | 68.20             | 15.82          | Pass   | H        | PK     |
| 7     | 1777.2277      | 30.23                 | 3.32                         | -42.70                | 52.34             | 43.19             | 68.20             | 25.01          | Pass   | V        | PK     |
| 8     | 2833.3333      | 32.93                 | 4.43                         | -43.10                | 57.91             | 52.17             | 68.20             | 16.03          | Pass   | V        | PK     |
| 9     | 4163.3663      | 34.03                 | 5.36                         | -42.94                | 52.57             | 49.02             | 68.20             | 19.18          | Pass   | V        | PK     |
| 10    | 5699.6700      | 35.32                 | 6.98                         | -42.60                | 64.92             | 64.62             | 68.20             | 3.58           | Pass   | V        | PK     |
| 11    | 6491.7492      | 35.90                 | 7.49                         | -42.50                | 50.53             | 51.42             | 68.20             | 16.78          | Pass   | V        | PK     |
| 12    | 9169.7113      | 37.67                 | 6.61                         | -42.04                | 49.33             | 51.57             | 68.20             | 16.63          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5785     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1191.4191      | 28.09                 | 2.84                         | -42.89                | 57.97             | 46.01             | 68.20             | 22.19          | Pass   | H        | PK     |
| 2     | 2562.7063      | 32.50                 | 4.34                         | -43.10                | 58.14             | 51.88             | 68.20             | 16.32          | Pass   | H        | PK     |
| 3     | 5787.6788      | 35.46                 | 7.00                         | -42.60                | 55.16             | 55.02             | 68.20             | 13.18          | Pass   | H        | PK     |
| 4     | 6491.7492      | 35.90                 | 7.49                         | -42.50                | 50.84             | 51.73             | 68.20             | 16.47          | Pass   | H        | PK     |
| 5     | 9146.7098      | 37.67                 | 6.62                         | -42.03                | 49.59             | 51.85             | 68.20             | 16.35          | Pass   | H        | PK     |
| 6     | 11215.314      | 38.73                 | 7.62                         | -42.00                | 48.75             | 53.10             | 68.20             | 15.10          | Pass   | H        | PK     |
| 7     | 2810.2310      | 32.90                 | 4.35                         | -43.11                | 58.25             | 52.39             | 68.20             | 15.81          | Pass   | V        | PK     |
| 8     | 4165.5666      | 34.03                 | 5.36                         | -42.93                | 52.07             | 48.53             | 68.20             | 19.67          | Pass   | V        | PK     |
| 9     | 5778.3278      | 35.45                 | 7.00                         | -42.60                | 60.40             | 60.25             | 68.20             | 7.95           | Pass   | V        | PK     |
| 10    | 6491.1991      | 35.90                 | 7.48                         | -42.50                | 50.82             | 51.70             | 68.20             | 16.50          | Pass   | V        | PK     |
| 11    | 9012.5342      | 37.70                 | 6.81                         | -42.01                | 49.21             | 51.71             | 68.20             | 16.49          | Pass   | V        | PK     |
| 12    | 10406.427      | 38.37                 | 7.54                         | -42.02                | 49.00             | 52.89             | 68.20             | 15.31          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11 a(HT20 ) Transmitting |                       |                   |                   |                   | Channel:       |        | 5825     |        |
|-------|----------------|-----------------------|------------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB]        | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 1184.8185      | 28.08                 | 2.82                         | -42.90                | 60.08             | 48.08             | 68.20             | 20.12          | Pass   | H        | PK     |
| 2     | 1931.2431      | 31.25                 | 3.59                         | -43.03                | 57.40             | 49.21             | 68.20             | 18.99          | Pass   | H        | PK     |
| 3     | 2562.7063      | 32.50                 | 4.34                         | -43.10                | 59.12             | 52.86             | 68.20             | 15.34          | Pass   | H        | PK     |
| 4     | 2984.0484      | 33.17                 | 4.57                         | -43.10                | 58.32             | 52.96             | 68.20             | 15.24          | Pass   | H        | PK     |
| 5     | 4165.5666      | 34.03                 | 5.36                         | -42.93                | 51.96             | 48.42             | 68.20             | 19.78          | Pass   | H        | PK     |
| 6     | 5821.7822      | 35.51                 | 7.01                         | -42.60                | 52.00             | 51.92             | 68.20             | 16.28          | Pass   | H        | PK     |
| 7     | 2562.1562      | 32.50                 | 4.34                         | -43.10                | 53.90             | 47.64             | 68.20             | 20.56          | Pass   | V        | PK     |
| 8     | 2834.4334      | 32.94                 | 4.43                         | -43.10                | 58.84             | 53.11             | 68.20             | 15.09          | Pass   | V        | PK     |
| 9     | 4162.8163      | 34.03                 | 5.36                         | -42.94                | 52.23             | 48.68             | 68.20             | 19.52          | Pass   | V        | PK     |
| 10    | 5821.2321      | 35.51                 | 7.01                         | -42.60                | 59.86             | 59.78             | 68.20             | 8.42           | Pass   | V        | PK     |
| 11    | 6491.1991      | 35.90                 | 7.48                         | -42.50                | 50.76             | 51.64             | 68.20             | 16.56          | Pass   | V        | PK     |
| 12    | 9000.2667      | 37.70                 | 6.83                         | -42.00                | 49.21             | 51.74             | 68.20             | 16.46          | Pass   | V        | PK     |

| Mode: |                |                       | 802.11n(HT40 )        |                       |                   |                   |                   | Channel:       |        | 5755     |        |
|-------|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| NO    | Freq.<br>[MHz] | Ant<br>Factor<br>[dB] | Cable<br>loss<br>[dB] | Pream<br>gain<br>[dB] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Result | Polarity | Remark |
| 1     | 2826.1826      | 32.92                 | 4.40                  | -43.09                | 58.64             | 52.87             | 68.20             | 15.33          | Pass   | H        | PK     |
| 2     | 2975.7976      | 33.16                 | 4.57                  | -43.10                | 57.24             | 51.87             | 68.20             | 16.33          | Pass   | H        | PK     |
| 3     | 5694.1694      | 35.31                 | 6.98                  | -42.60                | 56.07             | 55.76             | 68.20             | 12.44          | Pass   | H        | PK     |
| 4     | 6491.1991      | 35.90                 | 7.48                  | -42.50                | 49.94             | 50.82             | 68.20             | 17.38          | Pass   | H        | PK     |
| 5     | 9013.3009      | 37.70                 | 6.81                  | -42.01                | 49.61             | 52.11             | 68.20             | 16.09          | Pass   | H        | PK     |
| 6     | 10397.226      | 38.36                 | 7.52                  | -42.02                | 49.45             | 53.31             | 68.20             | 14.89          | Pass   | H        | PK     |
| 7     | 2562.7063      | 32.50                 | 4.34                  | -43.10                | 54.22             | 47.96             | 68.20             | 20.24          | Pass   | V        | PK     |
| 8     | 2833.3333      | 32.93                 | 4.43                  | -43.10                | 59.10             | 53.36             | 68.20             | 14.84          | Pass   | V        | PK     |
| 9     | 4163.9164      | 34.03                 | 5.36                  | -42.93                | 52.47             | 48.93             | 68.20             | 19.27          | Pass   | V        | PK     |
| 10    | 5702.9703      | 35.32                 | 6.98                  | -42.59                | 61.99             | 61.70             | 68.20             | 6.50           | Pass   | V        | PK     |
| 11    | 6491.7492      | 35.90                 | 7.49                  | -42.50                | 51.08             | 51.97             | 68.20             | 16.23          | Pass   | V        | PK     |
| 12    | 8986.4658      | 37.67                 | 6.84                  | -42.00                | 49.17             | 51.68             | 68.20             | 16.52          | Pass   | V        | PK     |

| Mode: |             |                 | 802.11n(HT40 )  |                 |                |                |                | Channel:    |        | 5795     |        |
|-------|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1934.5435   | 31.27           | 3.60            | -43.04          | 54.92          | 46.75          | 68.20          | 21.45       | Pass   | H        | PK     |
| 2     | 2828.9329   | 32.93           | 4.41            | -43.10          | 58.46          | 52.70          | 68.20          | 15.50       | Pass   | H        | PK     |
| 3     | 4178.2178   | 34.05           | 5.37            | -42.93          | 51.50          | 47.99          | 68.20          | 20.21       | Pass   | H        | PK     |
| 4     | 5799.2299   | 35.48           | 7.00            | -42.60          | 52.48          | 52.36          | 68.20          | 15.84       | Pass   | H        | PK     |
| 5     | 9214.9477   | 37.66           | 6.63            | -42.05          | 49.12          | 51.36          | 68.20          | 16.84       | Pass   | H        | PK     |
| 6     | 11258.250   | 38.75           | 7.71            | -42.00          | 49.94          | 54.40          | 68.20          | 13.80       | Pass   | H        | PK     |
| 7     | 1944.4444   | 31.33           | 3.63            | -43.07          | 50.52          | 42.41          | 68.20          | 25.79       | Pass   | V        | PK     |
| 8     | 2809.1309   | 32.89           | 4.34            | -43.09          | 58.31          | 52.45          | 68.20          | 15.75       | Pass   | V        | PK     |
| 9     | 4143.5644   | 34.00           | 5.36            | -42.95          | 52.91          | 49.32          | 68.20          | 18.88       | Pass   | V        | PK     |
| 10    | 5798.1298   | 35.48           | 7.00            | -42.60          | 60.61          | 60.49          | 68.20          | 7.71        | Pass   | V        | PK     |
| 11    | 8815.4877   | 37.29           | 6.92            | -41.99          | 47.93          | 50.15          | 68.20          | 18.05       | Pass   | V        | PK     |
| 12    | 13095.306   | 39.56           | 7.90            | -41.87          | 49.66          | 55.25          | 68.20          | 12.95       | Pass   | V        | PK     |

| Mode: |             |                 | 802.11ac(VHT80 ) |                 |                |                |                | Channel:    |        | 5775     |        |
|-------|-------------|-----------------|------------------|-----------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB]  | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1181.4191   | 28.09           | 2.84             | -42.89          | 57.97          | 46.01          | 68.20          | 22.19       | Pass   | H        | PK     |
| 2     | 2542.7163   | 32.50           | 4.34             | -43.10          | 58.14          | 51.88          | 68.20          | 16.32       | Pass   | H        | PK     |
| 3     | 5797.6488   | 35.46           | 7.00             | -42.60          | 55.16          | 55.02          | 68.20          | 13.18       | Pass   | H        | PK     |
| 4     | 6481.7442   | 35.90           | 7.49             | -42.50          | 50.84          | 51.73          | 68.20          | 16.47       | Pass   | H        | PK     |
| 5     | 9145.7498   | 37.67           | 6.62             | -42.03          | 49.59          | 51.85          | 68.20          | 16.35       | Pass   | H        | PK     |
| 6     | 11205.304   | 38.73           | 7.62             | -42.00          | 48.75          | 53.10          | 68.20          | 15.10       | Pass   | H        | PK     |
| 7     | 1790.5241   | 30.25           | 3.87             | -42.70          | 52.08          | 43.50          | 68.20          | 24.70       | Pass   | V        | PK     |
| 8     | 2882.3482   | 33.17           | 5.30             | -43.10          | 50.50          | 45.87          | 68.20          | 22.33       | Pass   | V        | PK     |
| 9     | 4647.2507   | 34.50           | 6.76             | -42.80          | 49.93          | 48.39          | 68.20          | 19.81       | Pass   | V        | PK     |
| 10    | 5227.9218   | 34.71           | 7.44             | -42.72          | 57.59          | 57.02          | 68.20          | 11.18       | Pass   | V        | PK     |
| 11    | 6498.7494   | 35.90           | 8.64             | -42.51          | 50.61          | 52.64          | 68.20          | 15.56       | Pass   | V        | PK     |
| 12    | 8696.7148   | 37.47           | 6.91             | -42.00          | 48.65          | 51.03          | 68.20          | 17.17       | Pass   | V        | PK     |

**Note:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 1GHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.