

## 5. Frequency Stability

### 5.1 Test Result

#### 5.1.1 Ant1

| Ant1    |         |                 |    |        |                  |               |                          |              |         |
|---------|---------|-----------------|----|--------|------------------|---------------|--------------------------|--------------|---------|
| Mode    | TX Type | Frequency (MHz) | RU | RU Pos | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| 802.11a | SISO    | 5180            | /  | /      | 20               | 102           | 5180.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 120           | 5180.080                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 138           | 5180.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -30              | 120           | 5180.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -20              | 120           | 5180.080                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -10              | 120           | 5180.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 0                | 120           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 10               | 120           | 5180.080                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 30               | 120           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 40               | 120           | 5180.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 50               | 120           | 5180.040                 | 5150 to 5250 | Pass    |
|         |         | 5200            | /  | /      | 20               | 102           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 120           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 138           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -30              | 120           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -20              | 120           | 5200.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -10              | 120           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 0                | 120           | 5200.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 10               | 120           | 5200.020                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 30               | 120           | 5200.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 40               | 120           | 5200.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 50               | 120           | 5200.080                 | 5150 to 5250 | Pass    |
|         |         | 5240            | /  | /      | 20               | 102           | 5240.080                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 120           | 5240.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        |                  | 138           | 5240.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -30              | 120           | 5240.080                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -20              | 120           | 5240.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | -10              | 120           | 5240.040                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 0                | 120           | 5240.060                 | 5150 to 5250 | Pass    |
|         |         |                 |    |        | 10               | 120           | 5240.080                 | 5150 to 5250 | Pass    |



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|-------------------|------|------|---|---|-----|-----|----------|--------------|------|
| 802.11n<br>(HT20) | MIMO | 5180 | / | / | 20  | 102 | 5180.100 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 120 | 5180.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 138 | 5180.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -30 | 120 | 5180.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -20 | 120 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -10 | 120 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 0   | 120 | 5180.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 10  | 120 | 5180.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 30  | 120 | 5180.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 40  | 120 | 5180.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 50  | 120 | 5180.020 | 5150 to 5250 | Pass |
|                   |      | 5200 | / | / | 20  | 102 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 120 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 138 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -30 | 120 | 5200.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -20 | 120 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -10 | 120 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 0   | 120 | 5200.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 10  | 120 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 30  | 120 | 5200.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 40  | 120 | 5200.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 50  | 120 | 5200.080 | 5150 to 5250 | Pass |
|                   |      | 5240 | / | / | 20  | 102 | 5240.020 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 120 | 5240.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 138 | 5240.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -30 | 120 | 5240.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -20 | 120 | 5240.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -10 | 120 | 5240.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 0   | 120 | 5240.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 10  | 120 | 5240.060 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 30  | 120 | 5240.040 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 40  | 120 | 5240.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 50  | 120 | 5240.060 | 5150 to 5250 | Pass |
|                   |      | 5745 | / | / | 20  | 102 | 5745.080 | 5725 to 5850 | Pass |
|                   |      |      |   |   |     | 120 | 5745.060 | 5725 to 5850 | Pass |
|                   |      |      |   |   |     | 138 | 5745.060 | 5725 to 5850 | Pass |
|                   |      |      |   |   | -30 | 120 | 5745.080 | 5725 to 5850 | Pass |
|                   |      |      |   |   | -20 | 120 | 5745.040 | 5725 to 5850 | Pass |
|                   |      |      |   |   | -10 | 120 | 5745.060 | 5725 to 5850 | Pass |



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|  |  |      |   |   |     |     |          |              |      |
|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  |      |   |   | 0   | 120 | 5745.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5745.040 | 5725 to 5850 | Pass |
|  |  | 5785 | / | / | 20  | 102 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5785.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5785.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5785.100 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5785.100 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5785.080 | 5725 to 5850 | Pass |
|  |  | 5825 | / | / | 20  | 102 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5825.020 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5825.020 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5825.020 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5825.060 | 5725 to 5850 | Pass |

|                   |      |      |   |   |     |     |          |              |      |
|-------------------|------|------|---|---|-----|-----|----------|--------------|------|
| 802.11n<br>(HT40) | MIMO | 5190 | / | / | 20  | 102 | 5190.160 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 120 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   |     | 138 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -30 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -20 | 120 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   | -10 | 120 | 5190.160 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 0   | 120 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 10  | 120 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 30  | 120 | 5190.120 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 40  | 120 | 5190.080 | 5150 to 5250 | Pass |
|                   |      |      |   |   | 50  | 120 | 5190.160 | 5150 to 5250 | Pass |
|                   |      | 5230 | / | / | 20  | 102 | 5230.160 | 5150 to 5250 | Pass |



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|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  |      |   |   |     | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 138 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | -30 | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | -20 | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | -10 | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 0   | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 10  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |   |   | 40  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  | 5755 | / | / | 20  | 102 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5755.160 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  | 5795 | / | / | 20  | 102 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5795.080 | 5725 to 5850 | Pass |

|                     |      |      |   |   |     |     |          |              |      |
|---------------------|------|------|---|---|-----|-----|----------|--------------|------|
| 802.11ac<br>(VHT20) | MIMO | 5180 | / | / | 20  | 102 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |   |   |     | 120 | 5180.060 | 5150 to 5250 | Pass |
|                     |      |      |   |   |     | 138 | 5180.100 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -30 | 120 | 5180.040 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -20 | 120 | 5180.060 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -10 | 120 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 0   | 120 | 5180.080 | 5150 to 5250 | Pass |



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|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  |      |   |   | 10  | 120 | 5180.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5180.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 40  | 120 | 5180.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5180.060 | 5150 to 5250 | Pass |
|  |  | 5200 | / | / | 20  | 102 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 120 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 138 | 5200.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | -30 | 120 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | -20 | 120 | 5200.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | -10 | 120 | 5200.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | 0   | 120 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 10  | 120 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5200.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | 40  | 120 | 5200.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5200.100 | 5150 to 5250 | Pass |
|  |  | 5240 | / | / | 20  | 102 | 5240.060 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 120 | 5240.080 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 138 | 5240.100 | 5150 to 5250 | Pass |
|  |  |      |   |   | -30 | 120 | 5240.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | -20 | 120 | 5240.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | -10 | 120 | 5240.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 0   | 120 | 5240.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | 10  | 120 | 5240.060 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5240.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 40  | 120 | 5240.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5240.080 | 5150 to 5250 | Pass |
|  |  | 5745 | / | / | 20  | 102 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5745.020 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5744.960 | 5725 to 5850 | Pass |
|  |  | 5785 | / | / | 20  | 102 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5785.040 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5785.060 | 5725 to 5850 | Pass |



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|  |  |      |   |   |     |     |          |              |      |
|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  |      |   |   | -30 | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5785.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5785.100 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5785.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  | 5825 | / | / | 20  | 102 | 5825.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5825.060 | 5725 to 5850 | Pass |

|  |  |      |   |   |     |     |          |              |      |
|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  |      |   |   | 20  | 102 | 5190.160 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 138 | 5190.120 | 5150 to 5250 | Pass |
|  |  | 5190 | / | / | -30 | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | -20 | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | -10 | 120 | 5190.160 | 5150 to 5250 | Pass |
|  |  |      |   |   | 0   | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 10  | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 40  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5190.080 | 5150 to 5250 | Pass |
|  |  | 5230 | / | / | 20  | 102 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   |     | 138 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | -30 | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |   |   | -20 | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |   |   | -10 | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |   |   | 0   | 120 | 5230.200 | 5150 to 5250 | Pass |
|  |  |      |   |   | 10  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 30  | 120 | 5230.120 | 5150 to 5250 | Pass |



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|  |  |      |   |   |     |     |          |              |      |
|--|--|------|---|---|-----|-----|----------|--------------|------|
|  |  | 5755 | / | / | 40  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |   |   | 50  | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |   |   | 20  | 102 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  | 5795 | / | / | 20  | 102 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   |     | 138 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -30 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | -20 | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | -10 | 120 | 5795.040 | 5725 to 5850 | Pass |
|  |  |      |   |   | 0   | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 10  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 30  | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |   |   | 40  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |   |   | 50  | 120 | 5795.040 | 5725 to 5850 | Pass |

|                     |      |      |   |   |     |     |          |              |      |
|---------------------|------|------|---|---|-----|-----|----------|--------------|------|
| 802.11ac<br>(VHT80) | MIMO | 5210 | / | / | 20  | 102 | 5210.225 | 5150 to 5250 | Pass |
|                     |      |      |   |   |     | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |   |   |     | 138 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -30 | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -20 | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |   |   | -10 | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 0   | 120 | 5210.225 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 10  | 120 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 30  | 120 | 5210.225 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 40  | 120 | 5210.225 | 5150 to 5250 | Pass |
|                     |      |      |   |   | 50  | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      | 5775 | / | / | 20  | 102 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |   |   |     | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |   |   |     | 138 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |   |   | -30 | 120 | 5775.075 | 5725 to 5850 | Pass |



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|  |  |  |  |  |     |     |          |              |      |
|--|--|--|--|--|-----|-----|----------|--------------|------|
|  |  |  |  |  | -20 | 120 | 5775.000 | 5725 to 5850 | Pass |
|  |  |  |  |  | -10 | 120 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  |  |  | 0   | 120 | 5775.150 | 5725 to 5850 | Pass |
|  |  |  |  |  | 10  | 120 | 5775.150 | 5725 to 5850 | Pass |
|  |  |  |  |  | 30  | 120 | 5775.075 | 5725 to 5850 | Pass |
|  |  |  |  |  | 40  | 120 | 5775.000 | 5725 to 5850 | Pass |
|  |  |  |  |  | 50  | 120 | 5775.075 | 5725 to 5850 | Pass |

|                     |      |      |       |      |     |     |          |              |      |
|---------------------|------|------|-------|------|-----|-----|----------|--------------|------|
| 802.11ax<br>(HEW20) | MIMO | 5180 | RU242 | Left | 20  | 102 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 120 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 138 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -30 | 120 | 5180.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -20 | 120 | 5180.100 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -10 | 120 | 5180.100 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 0   | 120 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 10  | 120 | 5180.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 30  | 120 | 5180.040 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 40  | 120 | 5180.120 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 50  | 120 | 5180.080 | 5150 to 5250 | Pass |
|                     |      | 5200 | RU242 | Left | 20  | 102 | 5200.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 120 | 5200.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 138 | 5200.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -30 | 120 | 5200.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -20 | 120 | 5200.100 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -10 | 120 | 5200.120 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 0   | 120 | 5200.140 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 10  | 120 | 5200.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 30  | 120 | 5200.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 40  | 120 | 5200.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 50  | 120 | 5200.080 | 5150 to 5250 | Pass |
|                     |      | 5240 | RU242 | Left | 20  | 102 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 138 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -30 | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -20 | 120 | 5240.060 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -10 | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 0   | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 10  | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 30  | 120 | 5240.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 40  | 120 | 5240.080 | 5150 to 5250 | Pass |



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|  |  |      |       |      |     |     |          |              |      |
|--|--|------|-------|------|-----|-----|----------|--------------|------|
|  |  | 5745 | RU242 | Left | 50  | 120 | 5240.080 | 5150 to 5250 | Pass |
|  |  |      |       |      | 20  | 102 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 120 | 5745.040 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 138 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | -30 | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | -20 | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -10 | 120 | 5745.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | 0   | 120 | 5745.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | 10  | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 30  | 120 | 5745.040 | 5725 to 5850 | Pass |
|  |  |      |       |      | 40  | 120 | 5745.040 | 5725 to 5850 | Pass |
|  |  |      |       |      | 50  | 120 | 5745.080 | 5725 to 5850 | Pass |
|  |  | 5785 | RU242 | Left | 20  | 102 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 138 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -30 | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -20 | 120 | 5785.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -10 | 120 | 5785.020 | 5725 to 5850 | Pass |
|  |  |      |       |      | 0   | 120 | 5785.000 | 5725 to 5850 | Pass |
|  |  |      |       |      | 10  | 120 | 5785.100 | 5725 to 5850 | Pass |
|  |  |      |       |      | 30  | 120 | 5785.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 40  | 120 | 5785.100 | 5725 to 5850 | Pass |
|  |  |      |       |      | 50  | 120 | 5785.120 | 5725 to 5850 | Pass |
|  |  | 5825 | RU242 | Left | 20  | 102 | 5824.980 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 138 | 5825.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | -30 | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -20 | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | -10 | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | 0   | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | 10  | 120 | 5825.040 | 5725 to 5850 | Pass |
|  |  |      |       |      | 30  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | 40  | 120 | 5825.060 | 5725 to 5850 | Pass |
|  |  |      |       |      | 50  | 120 | 5825.040 | 5725 to 5850 | Pass |

|                     |      |      |       |      |     |     |          |              |      |
|---------------------|------|------|-------|------|-----|-----|----------|--------------|------|
| 802.11ax<br>(HEW40) | MIMO | 5190 | RU484 | Left | 20  | 102 | 5190.120 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 120 | 5190.160 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 138 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -30 | 120 | 5190.080 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -20 | 120 | 5190.120 | 5150 to 5250 | Pass |

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|--|--|------|-------|------|-----|-----|----------|--------------|------|
|  |  |      |       |      | -10 | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | 0   | 120 | 5190.160 | 5150 to 5250 | Pass |
|  |  |      |       |      | 10  | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | 30  | 120 | 5190.160 | 5150 to 5250 | Pass |
|  |  |      |       |      | 40  | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | 50  | 120 | 5190.120 | 5150 to 5250 | Pass |
|  |  | 5230 | RU484 | Left | 20  | 102 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |       |      |     | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |       |      |     | 138 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |       |      | -30 | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | -20 | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |       |      | -10 | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | 0   | 120 | 5230.160 | 5150 to 5250 | Pass |
|  |  |      |       |      | 10  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |       |      | 30  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  |      |       |      | 40  | 120 | 5230.120 | 5150 to 5250 | Pass |
|  |  |      |       |      | 50  | 120 | 5230.080 | 5150 to 5250 | Pass |
|  |  | 5755 | RU484 | Left | 20  | 102 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 138 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | -30 | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | -20 | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | -10 | 120 | 5755.160 | 5725 to 5850 | Pass |
|  |  |      |       |      | 0   | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | 10  | 120 | 5755.160 | 5725 to 5850 | Pass |
|  |  |      |       |      | 30  | 120 | 5755.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 40  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | 50  | 120 | 5755.120 | 5725 to 5850 | Pass |
|  |  | 5795 | RU484 | Left | 20  | 102 | 5795.160 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |       |      |     | 138 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | -30 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | -20 | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | -10 | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 0   | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | 10  | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 30  | 120 | 5795.120 | 5725 to 5850 | Pass |
|  |  |      |       |      | 40  | 120 | 5795.080 | 5725 to 5850 | Pass |
|  |  |      |       |      | 50  | 120 | 5795.120 | 5725 to 5850 | Pass |



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|                     |      |      |       |      |     |     |          |              |      |
|---------------------|------|------|-------|------|-----|-----|----------|--------------|------|
| 802.11ax<br>(HEW80) | MIMO | 5210 | RU996 | Left | 20  | 102 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      |     | 138 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -30 | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -20 | 120 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |       |      | -10 | 120 | 5210.075 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 0   | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 10  | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 30  | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 40  | 120 | 5210.150 | 5150 to 5250 | Pass |
|                     |      |      |       |      | 50  | 120 | 5210.075 | 5150 to 5250 | Pass |
|                     |      | 5775 | RU996 | Left | 20  | 102 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      |     | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      |     | 138 | 5775.150 | 5725 to 5850 | Pass |
|                     |      |      |       |      | -30 | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      | -20 | 120 | 5775.150 | 5725 to 5850 | Pass |
|                     |      |      |       |      | -10 | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      | 0   | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      | 10  | 120 | 5775.075 | 5725 to 5850 | Pass |
|                     |      |      |       |      | 30  | 120 | 5775.150 | 5725 to 5850 | Pass |
|                     |      |      |       |      | 40  | 120 | 5775.150 | 5725 to 5850 | Pass |
|                     |      |      |       |      | 50  | 120 | 5775.150 | 5725 to 5850 | Pass |

- End of the Report -



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