

## Appendix D:

# Test Results of Radiated Spurious Emissions & Mains Conducted Emission Test for ANT 4 (ECC)

## Band Edges, 2.31GHz ~ 2.9GHz

250kbps

Low Channel (Horizontal) Peak

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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322

Date: 2021-10-06

Level (dBuV/m)

Frequency (MHz)

FCC Class B PK

FCC Class B AVG

|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1   | 2389.27 | 53.50  | 15.94 | 37.56 | 74.00  | -20.50 | 361  | 165  | Peak | Horizontal |           |      |
| 2 * | 2405.00 | 111.60 | 73.93 | 37.67 | 74.00  | 37.60  | 361  | 165  | Peak | Horizontal |           |      |
| 3   | 2563.72 | 55.42  | 17.32 | 38.10 | 74.00  | -18.58 | 361  | 165  | Peak | Horizontal |           |      |

Low Channel (Vertical) Peak

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No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel: +886-2172-1000 Fax: +886-2172-1322

Date: 2021-10-06

Level (dBuV/m)

Frequency (MHz)

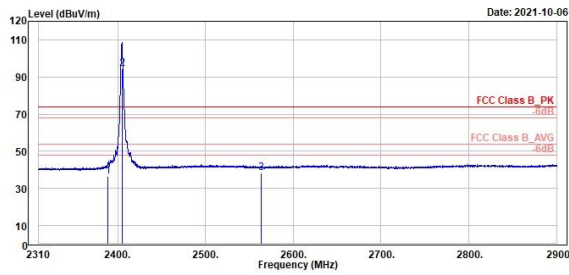
FCC Class B PK

FCC Class B AVG

|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |          |           |      |
| 1   | 2377.61 | 53.77  | 16.29 | 37.48 | 74.00  | -20.23 | 358  | 85   | Peak | Vertical |           |      |
| 2 * | 2405.00 | 100.06 | 70.39 | 37.67 | 74.00  | 34.06  | 358  | 85   | Peak | Vertical |           |      |
| 3   | 2630.15 | 55.20  | 17.16 | 38.04 | 74.00  | -18.80 | 358  | 85   | Peak | Vertical |           |      |

**250kbps**
**Low Channel (Horizontal) Average**
**Low Channel (Vertical) Average**

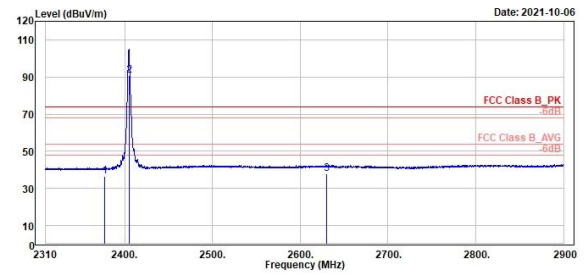

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 Tel: +886-2172-1000 Fax: +886-2172-1322



|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |            |           |      |
| 1   | 2389.27 | 36.30  | -1.26 | 37.56 | 54.00  | -17.70 | 361  | 165  | Average | Horizontal | CF        |      |
| 2 * | 2405.00 | 94.40  | 56.73 | 37.67 | 54.00  | 40.40  | 361  | 165  | Average | Horizontal | CF        |      |
| 3   | 2563.72 | 38.23  | 0.13  | 38.10 | 54.00  | -15.77 | 361  | 165  | Average | Horizontal | CF        |      |



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 Tel: +886-2172-1000 Fax: +886-2172-1322



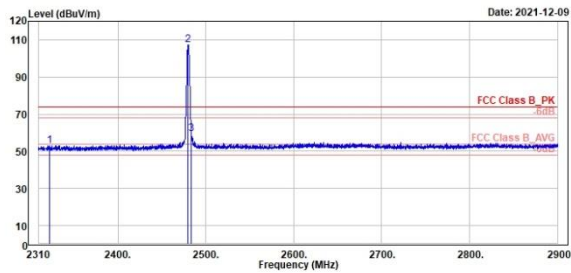
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |          |           |      |
| 1   | 2377.61 | 36.58  | -0.90 | 37.48 | 54.00  | -17.42 | 358  | 85   | Average | Vertical | CF        |      |
| 2 * | 2405.00 | 90.86  | 53.19 | 37.67 | 54.00  | 36.86  | 358  | 85   | Average | Vertical | CF        |      |
| 3   | 2630.15 | 38.00  | -0.04 | 38.04 | 54.00  | -16.00 | 358  | 85   | Average | Vertical | CF        |      |

**250kbps**

**High Channel (Horizontal) Peak**



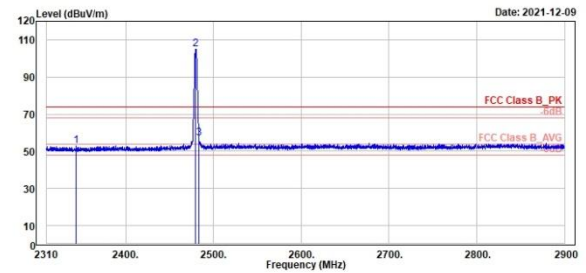
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Tel: +886-2172-1000 Fax: +886-2172-1322



| Peak | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|------|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|      | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |            |           |      |
| 1    | 2322.74 | 53.07  | 15.68 | 37.39 | 74.00  | -20.93 | 306  | 354  | Peak | Horizontal |           |      |
| 2 *  | 2480.00 | 107.09 | 69.48 | 37.61 | 74.00  | 33.09  | 306  | 354  | Peak | Horizontal |           |      |
| 3    | 2483.50 | 59.16  | 21.56 | 37.60 | 74.00  | -14.84 | 306  | 354  | Peak | Horizontal |           |      |



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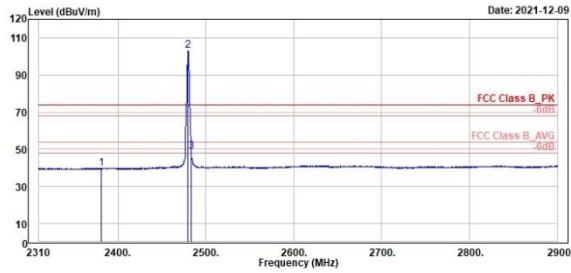
| Peak | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|------|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|      | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |          |           |      |
| 1    | 2343.90 | 52.98  | 15.75 | 37.23 | 74.00  | -21.02 | 325  | 105  | Peak | Vertical |           |      |
| 2 *  | 2480.00 | 104.89 | 67.18 | 37.71 | 74.00  | 30.89  | 325  | 105  | Peak | Vertical |           |      |
| 3    | 2483.50 | 57.14  | 19.41 | 37.73 | 74.00  | -16.86 | 325  | 105  | Peak | Vertical |           |      |

**250kbps**

**High Channel (Horizontal) Average**



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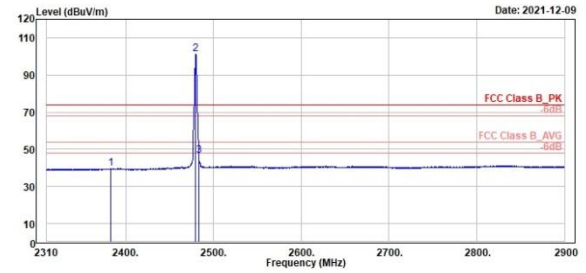


| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |         |            |      |
| 1    | 2381.15 | 39.85  | 2.28  | 37.57  | 54.00 | -14.15 | 306  | 354  | Average | Horizontal |      |
| 2 *  | 2480.00 | 103.16 | 65.55 | 37.61  | 54.00 | 49.16  | 306  | 354  | Average | Horizontal |      |
| 3 †  | 2483.50 | 48.80  | 11.20 | 37.60  | 54.00 | -5.20  | 306  | 354  | Average | Horizontal |      |

**High Channel (Vertical) Average**



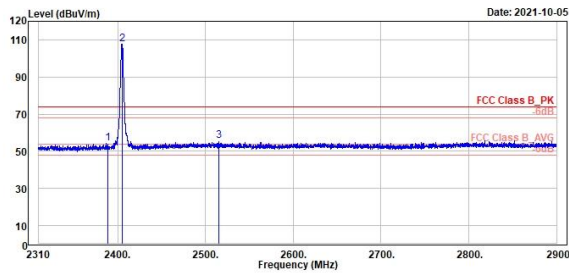
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |         |           |      |
| 1    | 2383.04 | 39.67  | 2.36  | 37.31  | 54.00 | -14.33 | 325  | 105  | Average | Vertical  |      |
| 2 *  | 2480.00 | 101.27 | 63.56 | 37.71  | 54.00 | 47.27  | 325  | 105  | Average | Vertical  |      |
| 3    | 2483.50 | 46.40  | 8.67  | 37.73  | 54.00 | -7.60  | 325  | 105  | Average | Vertical  |      |

**1Mbps**
**Low Channel (Horizontal) Peak**
**Low Channel (Vertical) Peak**

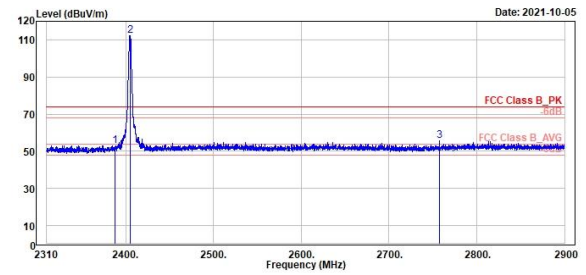

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 Tel: +886-2172-1000 Fax: +886-2172-1322



|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |          |           |      |
| 1   | 2388.92 | 54.14  | 16.59 | 37.55 | 74.00  | -19.86 | 349  | 105  | Peak | Vertical |           |      |
| 2 * | 2405.00 | 107.76 | 70.09 | 37.67 | 74.00  | 33.76  | 349  | 105  | Peak | Vertical |           |      |
| 3   | 2515.07 | 55.68  | 17.47 | 38.21 | 74.00  | -18.32 | 349  | 105  | Peak | Vertical |           |      |

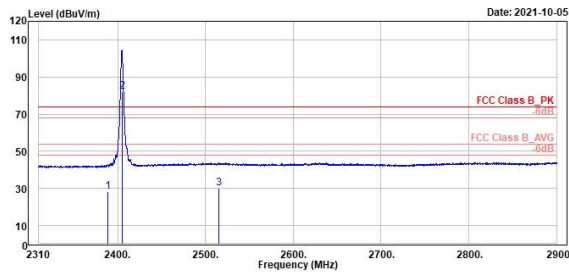


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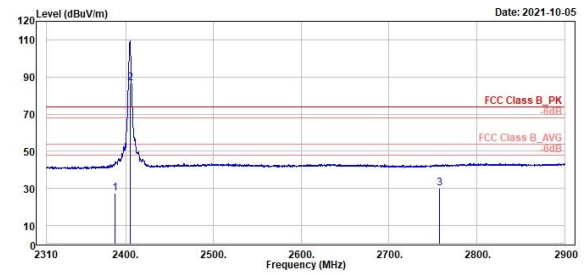


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1   | 2388.33 | 53.15  | 15.60 | 37.55 | 74.00  | -20.85 | 261  | 175  | Peak | Horizontal |           |      |
| 2 * | 2405.00 | 112.46 | 74.79 | 37.67 | 74.00  | 38.46  | 261  | 175  | Peak | Horizontal |           |      |
| 3   | 2757.59 | 55.62  | 17.45 | 38.17 | 74.00  | -18.38 | 261  | 175  | Peak | Horizontal |           |      |

**1Mbps**
**Low Channel (Horizontal) Average**
**Low Channel (Vertical) Average**

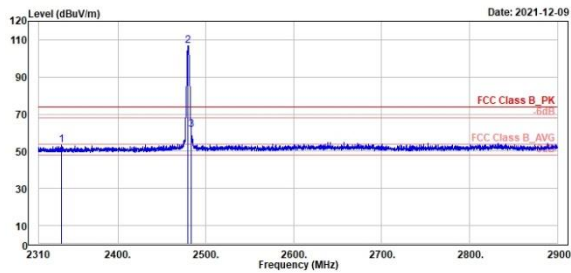
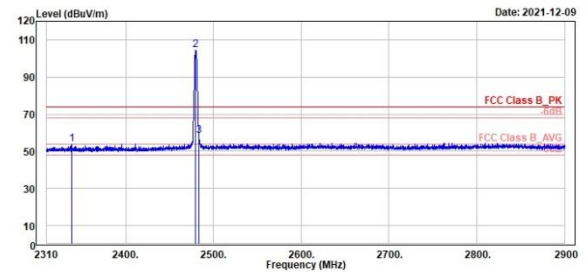
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 Tel: +886-2172-1000 Fax: +886-2172-1322


|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |         |          |           |      |
| 1   | 2388.92 | 28.42  | -9.13 | 37.55 | 54.00  | -25.58 | 349  | 105  | Average | Vertical | CF        |      |
| 2 * | 2485.00 | 82.04  | 44.37 | 37.67 | 54.00  | 28.04  | 349  | 105  | Average | Vertical | CF        |      |
| 3   | 2515.07 | 29.96  | -8.25 | 38.21 | 54.00  | -24.04 | 349  | 105  | Average | Vertical | CF        |      |


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 Tel: +886-2172-1000 Fax: +886-2172-1322


|     | Freq    | Level  | Read   | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|--------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV   | dB/m  | dBuV/m | dB     | cm   | deg  |         |            |           |      |
| 1   | 2388.33 | 27.43  | -10.12 | 37.55 | 54.00  | -26.57 | 261  | 175  | Average | Horizontal | CF        |      |
| 2 * | 2485.00 | 86.74  | 49.07  | 37.67 | 54.00  | 32.74  | 261  | 175  | Average | Horizontal | CF        |      |
| 3   | 2757.59 | 29.90  | -8.27  | 38.17 | 54.00  | -24.10 | 261  | 175  | Average | Horizontal | CF        |      |

**1Mbps**
**High Channel (Horizontal) Peak**

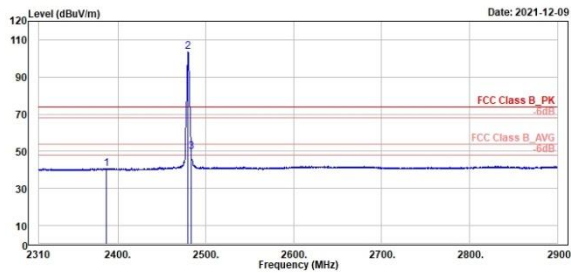
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 No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
 Tel: +886-2172-1000 Fax: +886-2172-1322

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**1Mbps**

**High Channel (Horizontal) Average**



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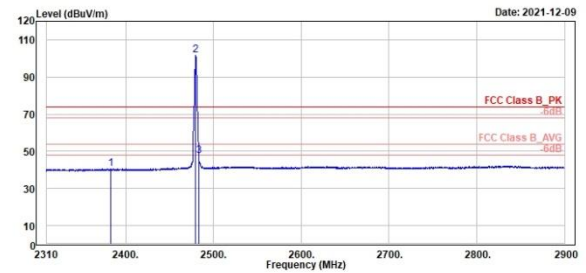


| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 2387.41 | 40.79  | 3.20  | 37.59  | 54.00 | -13.21 | 345  | 2    | Average | Horizontal |      |
| 2 *  | 2480.00 | 103.75 | 66.14 | 37.61  | 54.00 | 49.75  | 345  | 2    | Average | Horizontal |      |
| 3 †  | 2483.50 | 49.61  | 12.01 | 37.60  | 54.00 | -4.39  | 345  | 2    | Average | Horizontal |      |

**High Channel (Vertical) Average**



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Tel: +886-2172-1000 Fax: +886-2172-1322

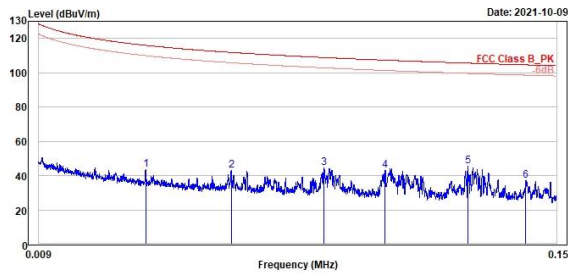


| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |           |      |
| 1    | 2383.04 | 40.47  | 3.16  | 37.31  | 54.00 | -13.53 | 329  | 99   | Average | Vertical  |      |
| 2 *  | 2480.00 | 101.55 | 63.84 | 37.71  | 54.00 | 47.55  | 329  | 99   | Average | Vertical  |      |
| 3    | 2483.50 | 47.28  | 9.55  | 37.73  | 54.00 | -6.72  | 329  | 99   | Average | Vertical  |      |

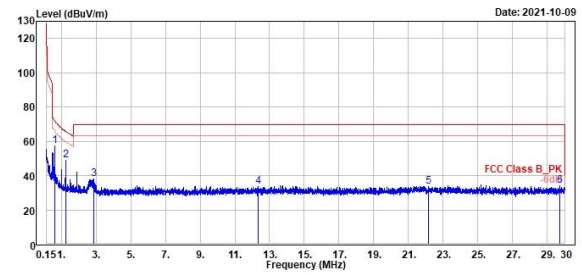
## Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

**250kbps**

### High Channel (Open) 9kHz~150kHz


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 Tel: +886-2172-1000 Fax: +886-2172-1322


|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |        |           |      |
| 1 | 0.04 | 43.37  | 23.05 | 20.32 | 115.97 | -72.60 | 100  | 145  | QP   | Open   |           |      |
| 2 | 0.06 | 42.91  | 22.62 | 20.29 | 111.83 | -68.92 | 100  | 157  | QP   | Open   |           |      |
| 3 | 0.09 | 44.27  | 24.01 | 20.26 | 108.83 | -64.56 | 100  | 145  | QP   | Open   |           |      |
| 4 | 0.10 | 42.81  | 22.57 | 20.24 | 107.32 | -64.51 | 100  | 161  | QP   | Open   |           |      |
| 5 | 0.13 | 45.44  | 25.23 | 20.21 | 105.60 | -60.16 | 100  | 147  | QP   | Open   |           |      |
| 6 | 0.14 | 37.31  | 17.11 | 20.20 | 104.58 | -67.27 | 100  | 138  | QP   | Open   |           |      |


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 Tel: +886-2172-1000 Fax: +886-2172-1322


|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |        |           |      |
| 1 | 0.63  | 57.49  | 37.37 | 20.12 | 71.65  | -14.16 | 100  | 163  | QP   | Open   |           |      |
| 2 | 1.26  | 48.84  | 28.63 | 20.21 | 65.61  | -16.77 | 100  | 163  | QP   | Open   |           |      |
| 3 | 2.87  | 38.28  | 18.11 | 20.17 | 69.50  | -31.22 | 100  | 251  | QP   | Open   |           |      |
| 4 | 12.34 | 33.70  | 13.31 | 20.39 | 69.50  | -35.80 | 100  | 231  | QP   | Open   |           |      |
| 5 | 22.14 | 33.76  | 13.24 | 20.52 | 69.50  | -35.74 | 100  | 16   | QP   | Open   |           |      |
| 6 | 29.70 | 34.10  | 13.59 | 20.51 | 69.50  | -35.40 | 100  | 227  | QP   | Open   |           |      |

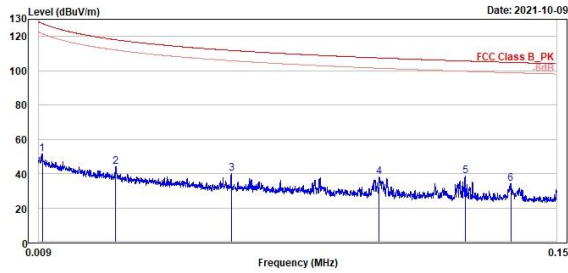
## Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

**250kbps**

### High Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.  
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Tel: +886-2172-1000 Fax: +886-2172-1322

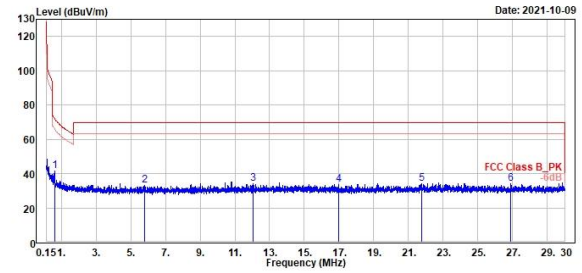


|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |        |           |      |
| 1 | 0.01 | 51.63  | 31.66 | 19.97 | 127.60 | -75.97 | 100  | 8    | QP   | Close  |           |      |
| 2 | 0.03 | 43.90  | 23.59 | 20.31 | 118.04 | -74.14 | 100  | 235  | QP   | Close  |           |      |
| 3 | 0.06 | 40.18  | 19.89 | 20.29 | 111.83 | -71.65 | 100  | 197  | QP   | Close  |           |      |
| 4 | 0.10 | 37.84  | 17.60 | 20.24 | 107.45 | -69.61 | 100  | 89   | QP   | Close  |           |      |
| 5 | 0.13 | 38.31  | 18.10 | 20.21 | 105.66 | -67.35 | 100  | 82   | QP   | Close  |           |      |
| 6 | 0.14 | 34.33  | 14.13 | 20.20 | 104.63 | -70.50 | 100  | 99   | QP   | Close  |           |      |

### High Channel (Vertical)



TÜV Rheinland Taiwan Ltd.  
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|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |        |           |      |
| 1 | 0.61  | 41.71  | 21.60 | 20.11 | 71.94  | -30.23 | 100  | 178  | QP   | Close  |           |      |
| 2 | 5.81  | 33.16  | 12.92 | 20.24 | 69.50  | -36.34 | 100  | 326  | QP   | Close  |           |      |
| 3 | 12.07 | 33.97  | 13.58 | 20.39 | 69.50  | -35.53 | 100  | 132  | QP   | Close  |           |      |
| 4 | 16.97 | 33.82  | 13.35 | 20.47 | 69.50  | -35.68 | 100  | 17   | QP   | Close  |           |      |
| 5 | 21.74 | 33.99  | 13.47 | 20.52 | 69.50  | -35.51 | 100  | 74   | QP   | Close  |           |      |
| 6 | 26.90 | 34.31  | 13.78 | 20.53 | 69.50  | -35.19 | 100  | 80   | QP   | Close  |           |      |

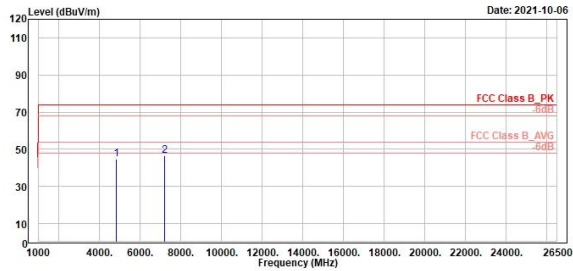
## Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

**250kbps**

### Low Channel (Horizontal)



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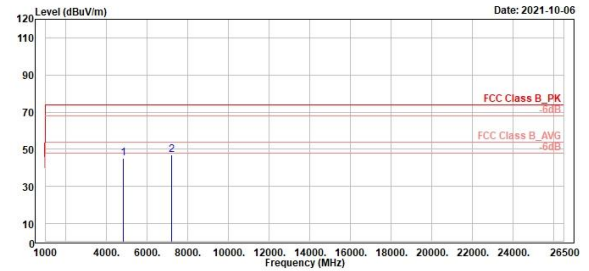


| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark   | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|----------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |          |            |      |
| 1    | 4810.00 | 44.69 | 54.37 | -9.77  | 74.00 | -29.40 | 180  |      | 5 Peak   | Horizontal |      |
| 2    | 7215.00 | 46.59 | 53.85 | -7.26  | 91.60 | -45.01 | 180  |      | 199 Peak | Horizontal |      |

### Low Channel (Vertical)



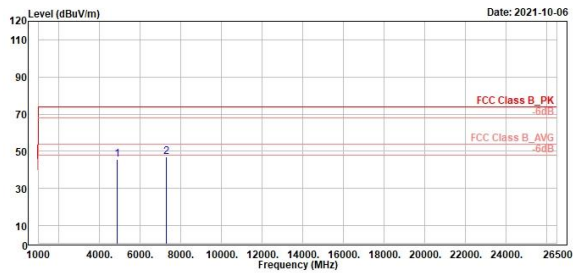
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark   | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|----------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |          |           |      |
| 1    | 4810.00 | 45.19 | 54.87 | -9.77  | 74.00 | -28.90 | 480  |      | 45 Peak  | Vertical  |      |
| 2    | 7215.00 | 46.88 | 54.14 | -7.26  | 88.06 | -41.18 | 400  |      | 143 Peak | Vertical  |      |

**250kbps**
**Middle Channel (Horizontal)**

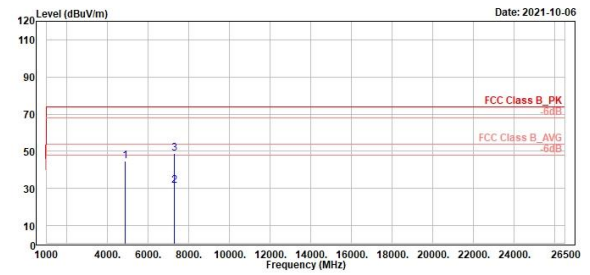

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| Peak | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|------------|--------|------------|------------|------|------|--------|------------|------|
|      | MHz     | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |            |      |
| 1    | 4870.00 | 45.43  | 55.11      | -9.68  | 74.00      | -28.57     | 180  | 346  | Peak   | Horizontal |      |
| 2    | 7305.00 | 47.10  | 54.34      | -7.24  | 74.00      | -26.90     | 180  | 224  | Peak   | Horizontal |      |

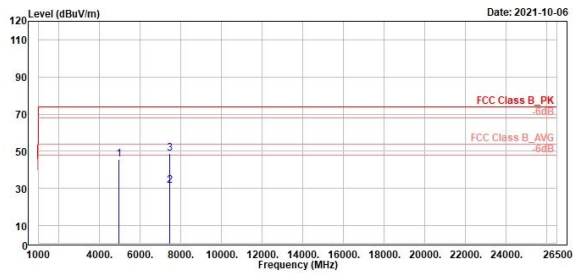
**Middle Channel (Vertical)**


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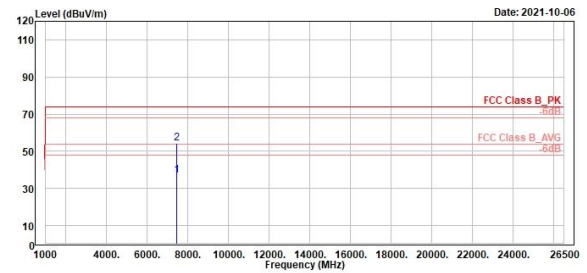
| Peak | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|--------|------------|--------|------------|------------|------|------|---------|-----------|------|
|      | MHz     | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |         |           |      |
| 1    | 4870.00 | 44.84  | 54.52      | -9.68  | 74.00      | -29.16     | 400  | 61   | Peak    | Vertical  |      |
| 2    | 7305.00 | 31.50  | 38.74      | -7.24  | 54.00      | -22.50     | 400  | 93   | Average | Vertical  | CF   |
| 3    | 7305.00 | 48.70  | 55.94      | -7.24  | 74.00      | -25.30     | 400  | 93   | Peak    | Vertical  |      |

**250kbps**
**High Channel (Horizontal)**

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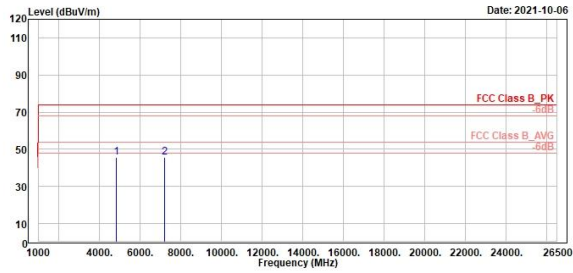
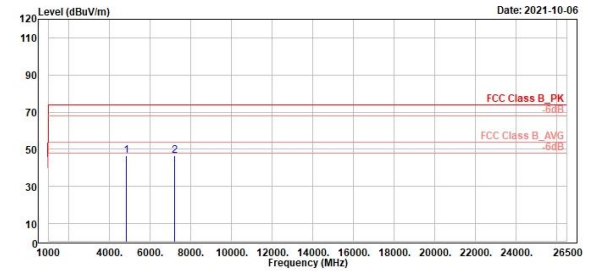
|   | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|---|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|   | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg     |            |           |      |
| 1 | 4960.00 | 45.73  | 55.19 | -9.46 | 74.00  | -28.27 | 180  | 346  | Peak    | Horizontal |           |      |
| 2 | 7440.00 | 31.70  | 38.95 | -7.25 | 54.00  | -22.30 | 238  | 0    | Average | Horizontal | CF        |      |
| 3 | 7440.00 | 48.89  | 56.14 | -7.25 | 74.00  | -25.11 | 238  | 0    | Peak    | Horizontal |           |      |

**High Channel (Vertical)**

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|   | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|---|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|   | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg     |          |           |      |
| 1 | 7440.00 | 36.99  | 44.24 | -7.25 | 54.00  | -17.01 | 383  | 104  | Average | Vertical | CF        |      |
| 2 | 7440.00 | 54.18  | 61.43 | -7.25 | 74.00  | -19.82 | 383  | 104  | Peak    | Vertical |           |      |

**1Mbps**
**Low Channel (Horizontal)**
**Low Channel (Vertical)**

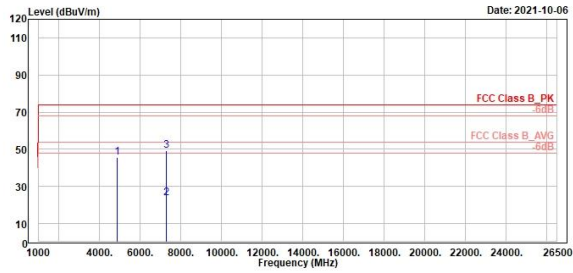
 TÜV Rheinland Taiwan Ltd.  
 No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
 Tel: +886-2172-1000 Fax: +886-2172-1322

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**1Mbps**

**Middle Channel (Horizontal)**



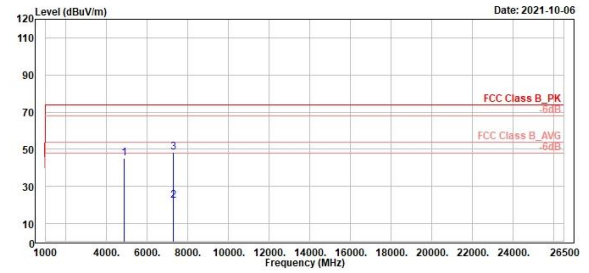
TÜV Rheinland Taiwan Ltd.  
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|   | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark      | Pol/Phase  | Note |
|---|---------|--------|-------|-------|--------|--------|------|------|------|-------------|------------|------|
|   | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |             |            |      |
| 1 | 4870.00 | 45.61  | 55.29 | -9.68 | 74.00  | -28.39 | 100  |      |      | 1 Peak      | Horizontal |      |
| 2 | 7305.00 | 23.70  | 30.94 | -7.24 | 54.00  | -30.30 | 300  |      |      | 226 Average | Horizontal | CF   |
| 3 | 7305.00 | 49.43  | 56.67 | -7.24 | 74.00  | -24.57 | 300  |      |      | 226 Peak    | Horizontal |      |



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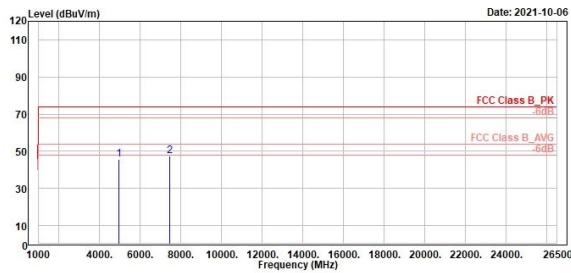
|   | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |            |           |      |
| 1 | 4870.00 | 45.39  | 55.07 | -9.68 | 74.00  | -28.61 | 300  |      |      | 141 Peak   | Vertical  |      |
| 2 | 7305.00 | 22.45  | 29.69 | -7.24 | 54.00  | -31.55 | 100  |      |      | 73 Average | Vertical  | CF   |
| 3 | 7305.00 | 48.18  | 55.42 | -7.24 | 74.00  | -25.82 | 100  |      |      | 73 Peak    | Vertical  |      |

**1Mbps**

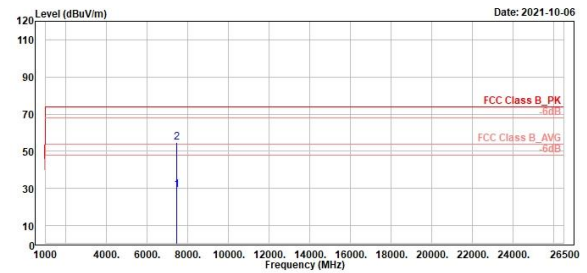
**High Channel (Horizontal)**



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## Mains Conducted Emission, 150kHz ~ 30MHz

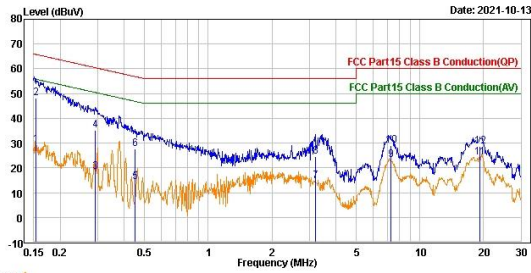
### Worst Band

#### (Line)

#### (Neutral)



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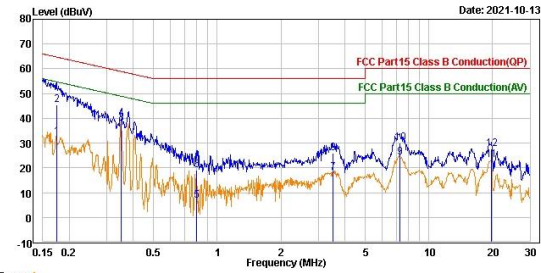


Trace: 1

|    | Freq  | Level | Read  | Factor | Limit | Over   |         |        |      |
|----|-------|-------|-------|--------|-------|--------|---------|--------|------|
|    | MHz   | dBuV  | dBuV  | dB     | dBuV  | dB     | Line    | Remark | Note |
| 1  | 0.15  | 29.35 | 19.29 | 10.06  | 55.79 | -26.44 | Average | line1  |      |
| 2  | 0.15  | 48.19 | 38.13 | 10.06  | 65.79 | -17.60 | QP      | line1  |      |
| 3  | 0.29  | 18.41 | 8.35  | 10.06  | 50.45 | -32.04 | Average | line1  |      |
| 4  | 0.29  | 35.14 | 25.08 | 10.06  | 60.45 | -25.31 | QP      | line1  |      |
| 5  | 0.45  | 14.16 | 4.09  | 10.07  | 46.85 | -32.69 | Average | line1  |      |
| 6  | 0.45  | 27.77 | 17.70 | 10.07  | 56.85 | -29.08 | QP      | line1  |      |
| 7  | 3.20  | 14.65 | 4.49  | 10.16  | 46.00 | -31.35 | Average | line1  |      |
| 8  | 3.20  | 24.72 | 14.56 | 10.16  | 56.00 | -31.28 | QP      | line1  |      |
| 9  | 7.28  | 23.27 | 13.00 | 10.27  | 50.00 | -26.73 | Average | line1  |      |
| 10 | 7.28  | 29.14 | 18.87 | 10.27  | 60.00 | -30.86 | QP      | line1  |      |
| 11 | 19.16 | 24.39 | 13.87 | 10.52  | 50.00 | -25.61 | Average | line1  |      |
| 12 | 19.16 | 28.83 | 18.31 | 10.52  | 60.00 | -31.17 | QP      | line1  |      |



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Trace: 1

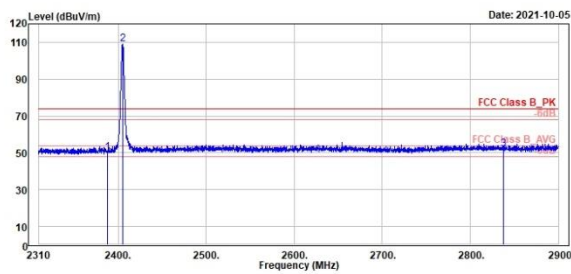
|    | Freq  | Level | Read  | Factor | Limit | Over   |         |         |      |
|----|-------|-------|-------|--------|-------|--------|---------|---------|------|
|    | MHz   | dBuV  | dBuV  | dB     | dBuV  | dB     | Line    | Remark  | Note |
| 1  | 0.17  | 32.53 | 22.49 | 10.04  | 54.76 | -22.23 | Average | neutral |      |
| 2  | 0.17  | 45.30 | 35.26 | 10.04  | 64.76 | -19.46 | QP      | neutral |      |
| 3  | 0.35  | 37.77 | 27.72 | 10.05  | 48.92 | -11.15 | Average | neutral |      |
| 4  | 0.35  | 40.06 | 30.01 | 10.05  | 58.92 | -18.86 | QP      | neutral |      |
| 5  | 0.80  | 6.83  | -3.23 | 10.06  | 46.00 | -39.17 | Average | neutral |      |
| 6  | 0.80  | 19.04 | 8.98  | 10.06  | 56.00 | -36.96 | QP      | neutral |      |
| 7  | 3.52  | 18.20 | 8.06  | 10.14  | 46.00 | -27.80 | Average | neutral |      |
| 8  | 3.52  | 25.91 | 15.77 | 10.14  | 56.00 | -30.09 | QP      | neutral |      |
| 9  | 7.32  | 24.06 | 13.81 | 10.25  | 50.00 | -25.94 | Average | neutral |      |
| 10 | 7.32  | 29.96 | 19.71 | 10.25  | 60.00 | -30.04 | QP      | neutral |      |
| 11 | 19.74 | 23.08 | 12.56 | 10.52  | 50.00 | -26.92 | Average | neutral |      |
| 12 | 19.74 | 27.64 | 17.12 | 10.52  | 60.00 | -32.36 | QP      | neutral |      |

# Test Results of Radiated Spurious Emissions & Mains Conducted

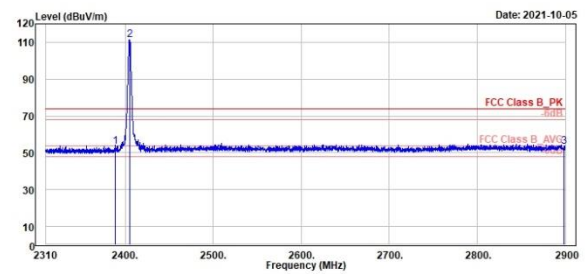
## Emission Test for ANT 5 (ECC)

### Band Edges, 2.31GHz ~ 2.9GHz

**250kbps**
**Low Channel (Horizontal) Peak**
**Low Channel (Vertical) Peak**

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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos     | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|----------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg      |      |            |           |      |
| 1   | 2388.21 | 50.17  | 12.62 | 37.55 | 74.00  | -23.83 | 300  | 245 Peak |      | Horizontal |           |      |
| 2 * | 2405.00 | 108.91 | 71.24 | 37.67 | 74.00  | 34.91  | 300  | 245 Peak |      | Horizontal |           |      |
| 3   | 2837.22 | 52.21  | 13.86 | 38.35 | 74.00  | -21.79 | 300  | 245 Peak |      | Horizontal |           |      |


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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos     | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|----------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg      |      |          |           |      |
| 1   | 2388.57 | 53.21  | 15.66 | 37.55 | 74.00  | -20.79 | 285  | 351 Peak |      | Vertical |           |      |
| 2 * | 2405.00 | 111.41 | 73.74 | 37.67 | 74.00  | 37.41  | 285  | 351 Peak |      | Vertical |           |      |
| 3   | 2898.23 | 53.18  | 14.57 | 38.61 | 74.00  | -20.82 | 285  | 351 Peak |      | Vertical |           |      |

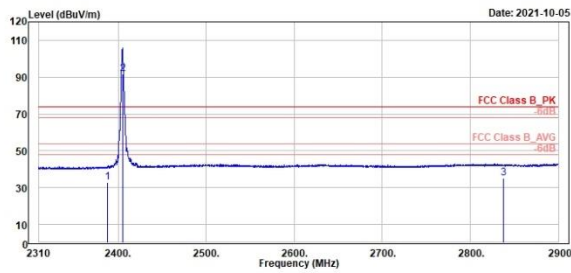
**250kbps**

**Low Channel (Horizontal) Average**

**Low Channel (Vertical) Average**



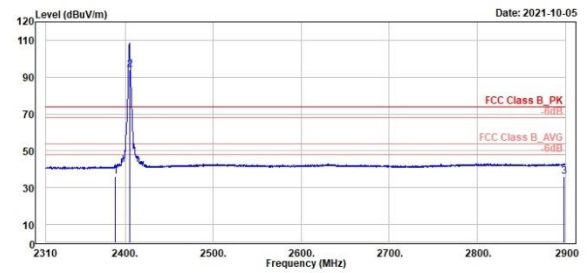
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |            |           |      |
| 1   | 2388.21 | 32.98  | -4.57 | 37.55 | 54.00  | -21.02 | 300  | 245  | Average | Horizontal | CF        |      |
| 2 * | 2405.00 | 91.72  | 54.05 | 37.67 | 54.00  | 37.72  | 300  | 245  | Average | Horizontal | CF        |      |
| 3   | 2837.22 | 35.02  | -3.33 | 38.35 | 54.00  | -18.98 | 300  | 245  | Average | Horizontal | CF        |      |



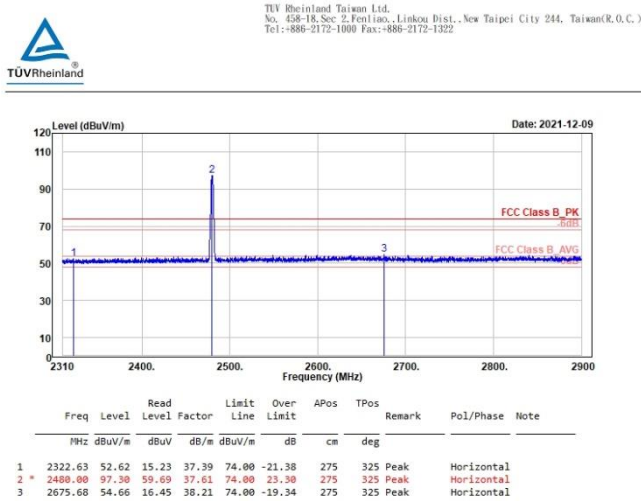
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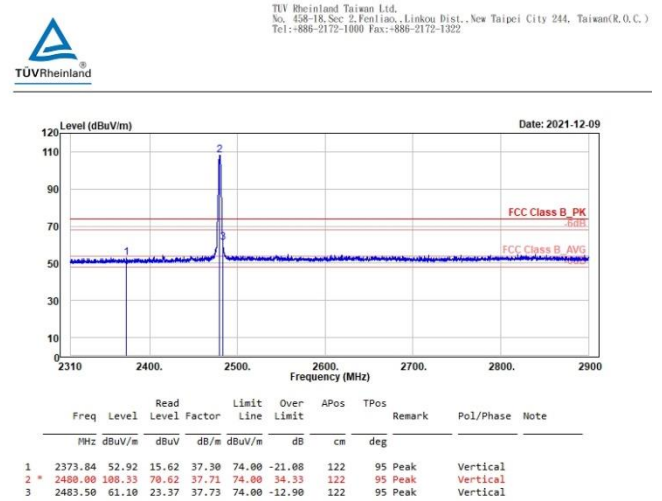
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |          |           |      |
| 1   | 2388.57 | 36.01  | -1.54 | 37.55 | 54.00  | -17.99 | 285  | 351  | Average | Vertical | CF        |      |
| 2 * | 2405.00 | 94.22  | 56.55 | 37.67 | 54.00  | 40.22  | 285  | 351  | Average | Vertical | CF        |      |
| 3   | 2898.23 | 35.98  | -2.63 | 38.61 | 54.00  | -18.02 | 285  | 351  | Average | Vertical | CF        |      |

**250kbps**

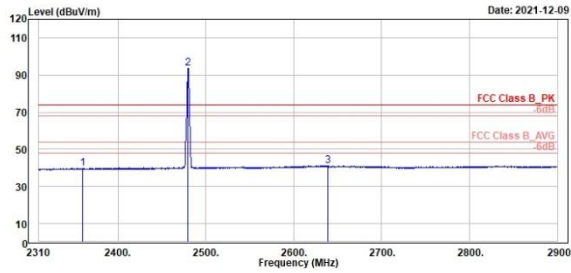
**High Channel (Horizontal) Peak**



**High Channel (Vertical) Peak**

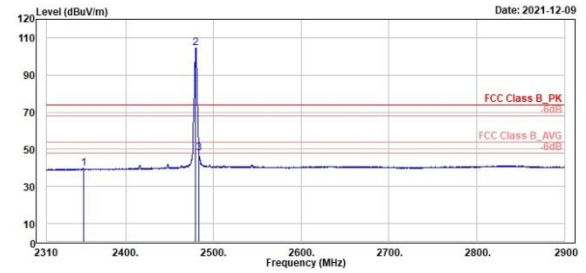


**250kbps**
**High Channel (Horizontal) Average**

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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |         |            |      |
| 1    | 2368.27 | 39.88 | 2.29  | 37.51  | 54.00 | -14.20 | 275  | 325  | Average | Horizontal |      |
| 2 *  | 2480.00 | 93.62 | 56.81 | 37.61  | 54.00 | 39.62  | 275  | 325  | Average | Horizontal |      |
| 3    | 2638.75 | 41.08 | 2.87  | 38.21  | 54.00 | -12.92 | 275  | 325  | Average | Horizontal |      |

**High Channel (Vertical) Average**

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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | cm   | deg  |         |           |      |
| 1    | 2352.24 | 39.73  | 2.45  | 37.28  | 54.00 | -14.27 | 122  | 95   | Average | Vertical  |      |
| 2 *  | 2480.00 | 104.57 | 66.86 | 37.71  | 54.00 | 50.57  | 122  | 95   | Average | Vertical  |      |
| 3    | 2483.50 | 47.87  | 10.14 | 37.73  | 54.00 | -6.13  | 122  | 95   | Average | Vertical  |      |

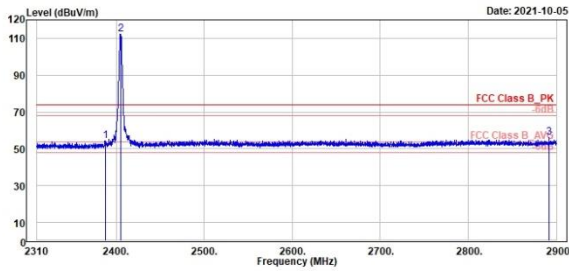
**1Mbps**

**Low Channel (Horizontal) Peak**

**Low Channel (Vertical) Peak**



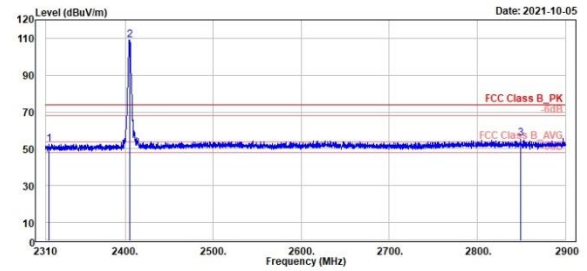
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |           |      |
| 1   | 2387.58 | 54.16  | 16.61 | 37.55 | 74.00  | -19.84 |      | 119  | 165  | Peak   | Vertical  |      |
| 2 * | 2405.00 | 112.46 | 74.79 | 37.67 | 74.00  | 38.46  |      | 119  | 165  | Peak   | Vertical  |      |
| 3   | 2891.76 | 56.03  | 17.45 | 38.58 | 74.00  | -17.97 |      | 119  | 165  | Peak   | Vertical  |      |



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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase  | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|--------|------------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |            |      |
| 1   | 2314.01 | 52.62  | 15.46 | 37.16 | 74.00  | -21.38 |      | 267  | 99   | Peak   | Horizontal |      |
| 2 * | 2405.00 | 100.05 | 71.38 | 37.67 | 74.00  | 26.05  |      | 267  | 99   | Peak   | Horizontal |      |
| 3   | 2848.76 | 55.84  | 17.48 | 38.36 | 74.00  | -18.16 |      | 267  | 99   | Peak   | Horizontal |      |

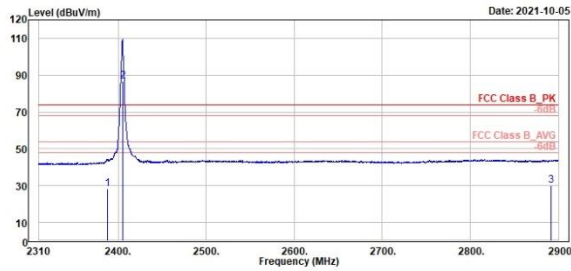
**1Mbps**

**Low Channel (Horizontal) Average**

**Low Channel (Vertical) Average**



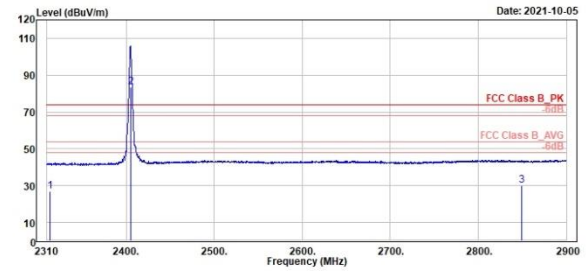
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |           |      |
| 1    | 2387.58 | 28.44 | -9.11 | 37.55  | 54.00 | -25.56 | 119  | 165  | Average | Vertical  | CF   |
| 2 *  | 2405.00 | 86.74 | 49.07 | 37.67  | 54.00 | 32.74  | 119  | 165  | Average | Vertical  | CF   |
| 3    | 2891.76 | 30.31 | -8.27 | 38.58  | 54.00 | -23.69 | 119  | 165  | Average | Vertical  | CF   |



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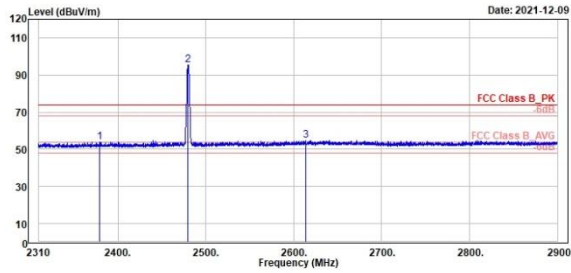
| Freq | Level   | Read  | Level  | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|--------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m   | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2314.01 | 26.90 | -10.26 | 37.16  | 54.00 | -27.10 | 267  | 99   | Average | Horizontal | CF   |
| 2 *  | 2405.00 | 83.33 | 45.66  | 37.67  | 54.00 | 29.33  | 267  | 99   | Average | Horizontal | CF   |
| 3    | 2848.76 | 30.12 | -8.24  | 38.36  | 54.00 | -23.88 | 267  | 99   | Average | Horizontal | CF   |

**1Mbps**

**High Channel (Horizontal) Peak**



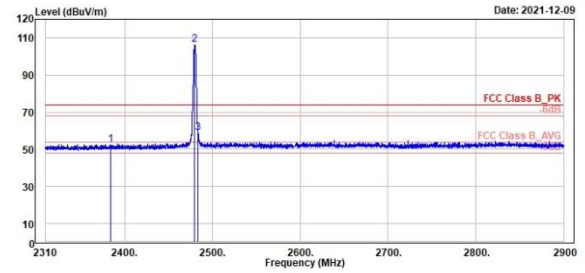
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |            |           |      |
| 1   | 2379.15 | 54.01  | 16.44 | 37.57 | 74.00  | -19.99 | 275  | 325  | Peak | Horizontal |           |      |
| 2 * | 2480.00 | 95.49  | 57.88 | 37.61 | 74.00  | 21.49  | 275  | 325  | Peak | Horizontal |           |      |
| 3   | 2613.38 | 54.87  | 16.69 | 38.18 | 74.00  | -19.13 | 275  | 325  | Peak | Horizontal |           |      |



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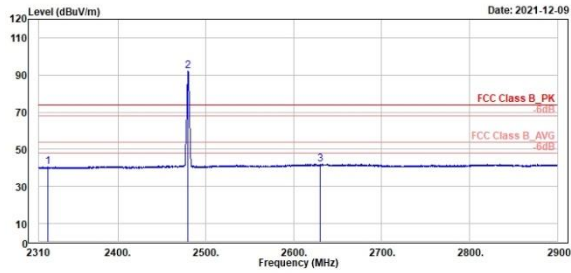
|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark   | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|----------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | cm   | deg  |          |           |      |
| 1   | 2383.99 | 52.55  | 15.24 | 37.31 | 74.00  | -21.45 | 121  | 94   | Peak | Vertical |           |      |
| 2 * | 2480.00 | 106.19 | 68.48 | 37.71 | 74.00  | 32.19  | 121  | 94   | Peak | Vertical |           |      |
| 3   | 2483.50 | 58.74  | 21.01 | 37.73 | 74.00  | -15.26 | 121  | 94   | Peak | Vertical |           |      |

**1Mbps**

**High Channel (Horizontal) Average**



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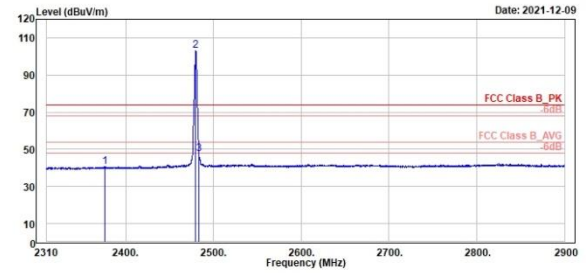


| Freq | Level   | Read  | Level | Factor | Limit  | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|--------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  |        | dBuV/m | dB     | cm   | deg  |         |            |      |
| 1    | 2320.38 | 40.63 | 3.25  | 37.38  | 54.00  | -13.37 | 275  | 325  | Average | Horizontal |      |
| 2 *  | 2480.00 | 92.19 | 54.58 | 37.61  | 54.00  | 38.19  | 275  | 325  | Average | Horizontal |      |
| 3    | 2629.90 | 42.02 | 3.82  | 38.20  | 54.00  | -11.98 | 275  | 325  | Average | Horizontal |      |

**High Channel (Vertical) Average**



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| Freq | Level   | Read   | Level | Factor | Limit  | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|--------|-------|--------|--------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  |        | dBuV/m | dB     | cm   | deg  |         |           |      |
| 1    | 2375.96 | 40.50  | 3.20  | 37.30  | 54.00  | -13.50 | 121  | 94   | Average | Vertical  |      |
| 2 *  | 2480.00 | 102.99 | 65.28 | 37.71  | 54.00  | 48.99  | 121  | 94   | Average | Vertical  |      |
| 3    | 2483.50 | 47.40  | 9.67  | 37.73  | 54.00  | -6.60  | 121  | 94   | Average | Vertical  |      |