

## Appendix D:

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

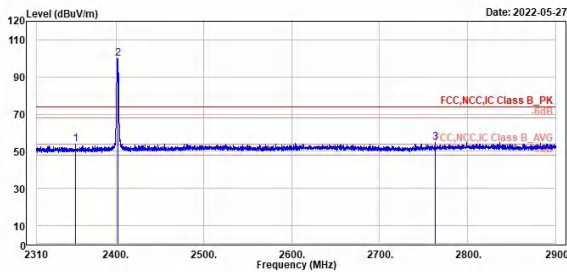
## Band Edges, 2.31GHz ~ 2.9GHz

### BLE\_1M

#### CH0 (Horizontal) Peak



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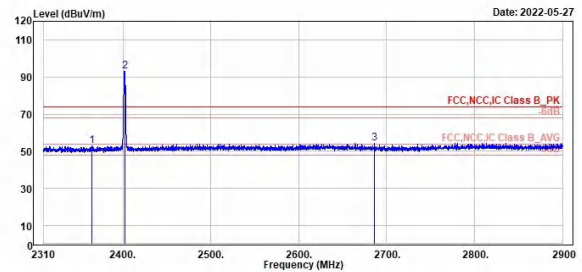


| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2353.90 | 53.99 | 16.59 | 37.40  | 74.00 | -20.01 | 101  | 333  | Peak   | Horizontal |      |
| 2 *  | 2482.00 | 99.99 | 62.36 | 37.63  | 74.00 | 25.99  | 101  | 333  | Peak   | Horizontal |      |
| 3    | 2762.88 | 54.84 | 16.68 | 38.16  | 74.00 | -19.16 | 101  | 333  | Peak   | Horizontal |      |

#### CH0 (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    | 2365.22 | 53.11 | 15.66 | 37.45  | 74.00 | -20.89 | 100  | 162  | Peak   | Vertical  |      |
| 2 *  | 2482.00 | 93.13 | 55.50 | 37.63  | 74.00 | 19.13  | 100  | 162  | Peak   | Vertical  |      |
| 3    | 2685.83 | 54.42 | 16.49 | 37.93  | 74.00 | -19.58 | 100  | 162  | Peak   | Vertical  |      |

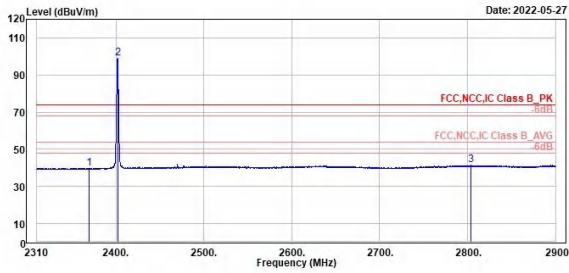
BLE\_1M

CH0 (Horizontal) Average

CH0 (Vertical) Average



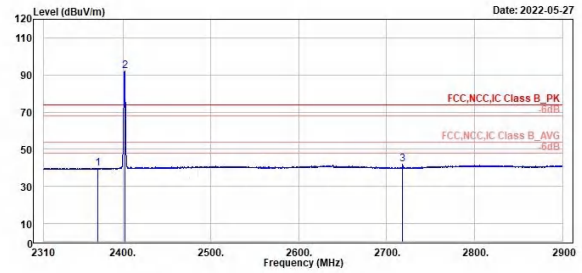
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2369.47 | 39.86 | 2.38  | 37.48  | 54.00 | -14.14 | 101  | 333  | Average | Horizontal |      |
| 2 *  | 2402.00 | 98.95 | 61.32 | 37.63  | 54.00 | 44.95  | 101  | 333  | Average | Horizontal |      |
| 3    | 2803.48 | 41.47 | 3.27  | 38.20  | 54.00 | -12.53 | 101  | 333  | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2371.36 | 39.87 | 2.38  | 37.49  | 54.00 | -14.13 | 100  | 162  | Average | Vertical  |      |
| 2 *  | 2402.00 | 92.07 | 54.44 | 37.63  | 54.00 | 38.07  | 100  | 162  | Average | Vertical  |      |
| 3    | 2718.04 | 41.96 | 3.98  | 37.98  | 54.00 | -12.04 | 100  | 162  | Average | Vertical  |      |

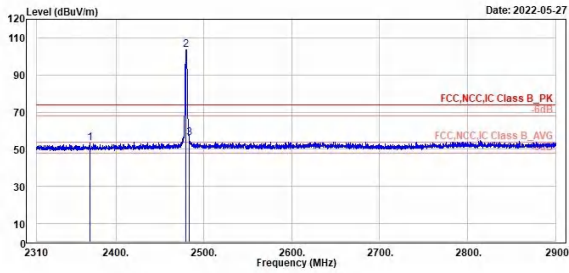
**BLE\_1M**

**CH39 (Horizontal) Peak**

**CH39 (Vertical) Peak**



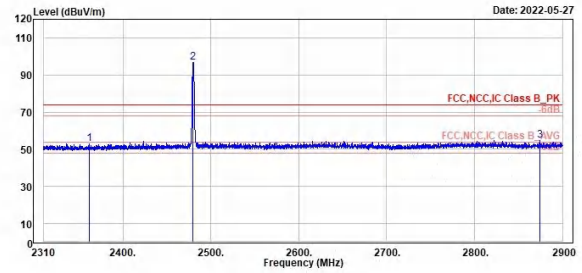
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase  | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|--------|------------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |            |      |
| 1   | 2370.89 | 53.17  | 15.69 | 37.48 | 74.00  | -20.83 |      | 321  | 187  | Peak   | Horizontal |      |
| 2 * | 2480.00 | 103.41 | 65.62 | 37.79 | 74.00  | 29.41  |      | 321  | 187  | Peak   | Horizontal |      |
| 3   | 2483.58 | 56.33  | 18.53 | 37.80 | 74.00  | -17.67 |      | 321  | 187  | 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     | dB   | cm   | deg  |        |           |      |
| 1   | 2361.57 | 52.91  | 15.47 | 37.44 | 74.00  | -21.09 |      | 331  | 268  | Peak   | Vertical  |      |
| 2 * | 2480.00 | 96.90  | 59.11 | 37.79 | 74.00  | 22.90  |      | 331  | 268  | Peak   | Vertical  |      |
| 3   | 2874.28 | 54.78  | 16.49 | 38.29 | 74.00  | -19.22 |      | 331  | 268  | Peak   | Vertical  |      |

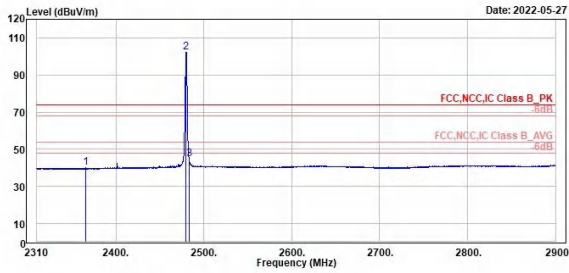
BLE\_1M

CH39 (Horizontal) Average

CH39 (Vertical) Average



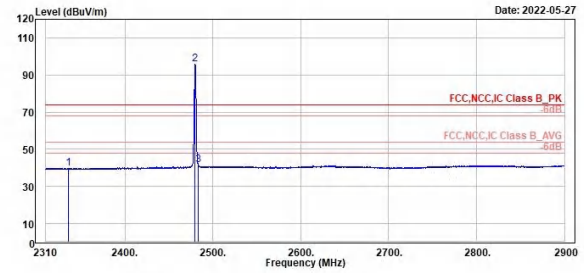
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark  | Pol/Phase  | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|---------|------------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |         |            |      |
| 1   | 2366.05 | 39.05  | 2.58  | 37.45 | 54.00  | -14.05 |      | 321  | 187  | Average | Horizontal |      |
| 2 * | 2480.00 | 102.30 | 64.51 | 37.79 | 54.00  | 48.30  |      | 321  | 187  | Average | Horizontal |      |
| 3   | 2483.46 | 44.53  | 6.73  | 37.80 | 54.00  | -9.47  |      | 321  | 187  | Average | 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     | dB   | cm   | deg  |         |           |      |
| 1   | 2335.96 | 39.01  | 2.58  | 37.33 | 54.00  | -14.09 |      | 331  | 268  | Average | Vertical  |      |
| 2 * | 2480.00 | 95.79  | 58.00 | 37.79 | 54.00  | 41.79  |      | 331  | 268  | Average | Vertical  |      |
| 3   | 2483.46 | 41.50  | 3.70  | 37.80 | 54.00  | -12.50 |      | 331  | 268  | Average | Vertical  |      |

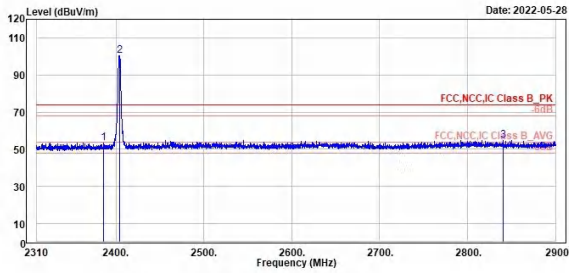
BLE\_2M

CH1 (Horizontal) Peak

CH1 (Vertical) Peak



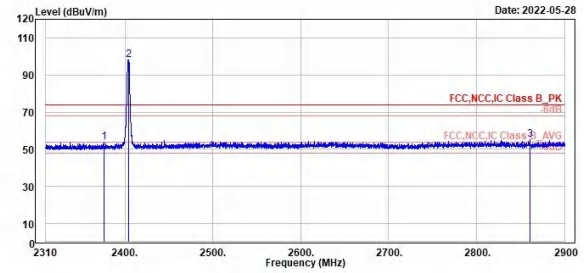
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 2386.46 | 53.60  | 16.03 | 37.57  | 74.00 | -20.40 | 118  | 357  | Peak   | Horizontal |      |
| 2 *  | 2404.00 | 100.39 | 62.75 | 37.64  | 74.00 | 26.39  | 118  | 357  | Peak   | Horizontal |      |
| 3    | 2840.65 | 54.88  | 16.71 | 38.17  | 74.00 | -19.12 | 118  | 357  | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 2376.67 | 53.70 | 16.19 | 37.51  | 74.00 | -20.30 | 322  | 93   | Peak   | Vertical  |      |
| 2 *  | 2404.00 | 98.31 | 60.67 | 37.64  | 74.00 | 24.31  | 322  | 93   | Peak   | Vertical  |      |
| 3    | 2860.71 | 55.38 | 17.16 | 38.22  | 74.00 | -18.62 | 322  | 93   | Peak   | Vertical  |      |

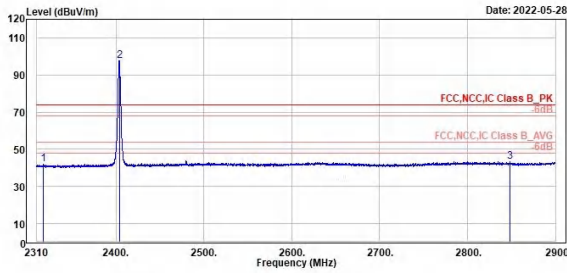
**BLE\_2M**

**CH1 (Horizontal) Average**

**CH1 (Vertical) Average**



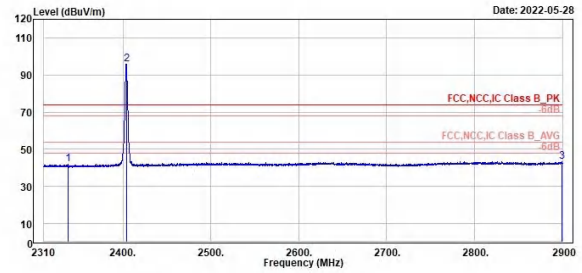
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |            |           |      |
| 1   | 2317.43 | 41.83  | 4.57  | 37.26 | 54.00  | -12.17 | 118  | 357  | Average | Horizontal |           |      |
| 2 * | 2404.00 | 97.84  | 68.28 | 37.64 | 54.00  | 43.84  | 118  | 357  | Average | Horizontal |           |      |
| 3   | 2847.73 | 43.35  | 5.19  | 38.16 | 54.00  | -10.65 | 118  | 357  | Average | 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     | dB   | cm   | deg     |          |           |      |
| 1   | 2337.73 | 41.82  | 4.48  | 37.34 | 54.00  | -12.18 | 322  | 93   | Average | Vertical |           |      |
| 2 * | 2404.00 | 95.86  | 58.22 | 37.64 | 54.00  | 41.86  | 322  | 93   | Average | Vertical |           |      |
| 3   | 2899.17 | 43.42  | 5.00  | 38.42 | 54.00  | -10.58 | 322  | 93   | Average | Vertical |           |      |

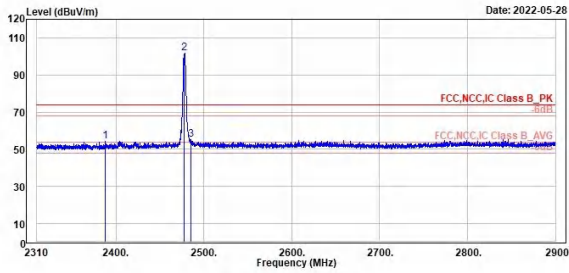
**BLE\_2M**

**CH38 (Horizontal) Peak**

**CH38 (Vertical) Peak**



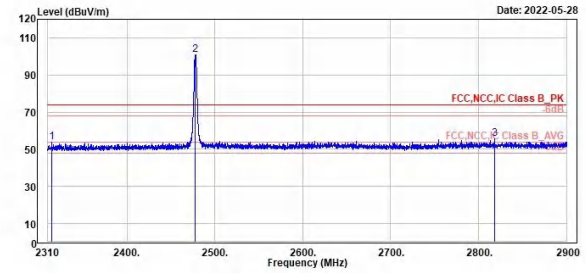
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 2388.35 | 54.09  | 16.52 | 37.57  | 74.00 | -19.91 | 146  | 359  | Peak   | Horizontal |      |
| 2 *  | 2478.00 | 101.59 | 63.81 | 37.78  | 74.00 | 27.59  | 146  | 359  | Peak   | Horizontal |      |
| 3    | 2485.11 | 55.44  | 17.64 | 37.80  | 74.00 | -18.56 | 146  | 359  | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 2314.25 | 53.70  | 16.44 | 37.26  | 74.00 | -20.30 | 369  | 107  | Peak   | Vertical  |      |
| 2 *  | 2478.00 | 100.93 | 63.15 | 37.78  | 74.00 | 26.93  | 369  | 107  | Peak   | Vertical  |      |
| 3    | 2818.11 | 55.52  | 17.33 | 38.19  | 74.00 | -18.48 | 369  | 107  | Peak   | Vertical  |      |

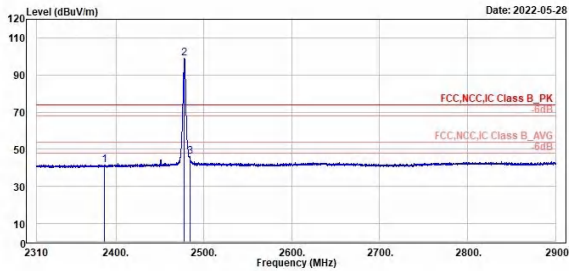
BLE\_2M

CH38 (Horizontal) Average

CH38 (Vertical) Average



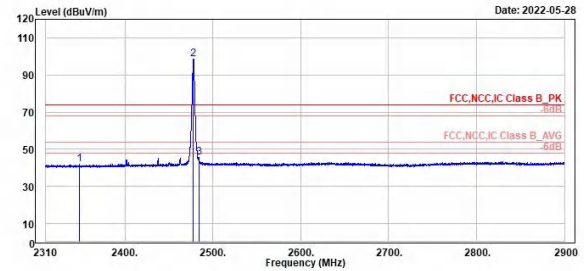
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos    | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|---------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg     |            |           |      |
| 1   | 2387.05 | 41.61  | 4.04  | 37.57 | 54.00  | -12.39 | 146  | 359  | Average | Horizontal |           |      |
| 2 * | 2478.00 | 99.09  | 61.31 | 37.78 | 54.00  | 45.09  | 146  | 359  | Average | Horizontal |           |      |
| 3   | 2484.05 | 45.99  | 8.19  | 37.80 | 54.00  | -8.01  | 146  | 359  | Average | 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     | dB   | cm   | deg     |          |           |      |
| 1   | 2348.23 | 41.97  | 4.60  | 37.37 | 54.00  | -12.03 | 369  | 107  | Average | Vertical |           |      |
| 2 * | 2478.00 | 98.53  | 60.75 | 37.78 | 54.00  | 44.53  | 369  | 107  | Average | Vertical |           |      |
| 3   | 2484.05 | 45.42  | 7.62  | 37.80 | 54.00  | -8.58  | 369  | 107  | Average | Vertical |           |      |

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

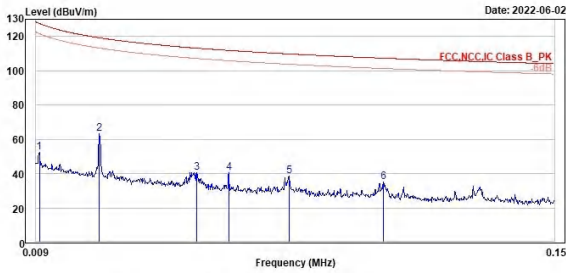
## BLE\_1M

### CH19 (Open) 9kHz~150kHz

### CH19 (Open) 150kHz~30MHz



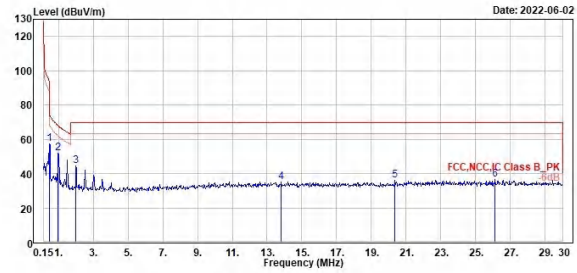
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|   | Freq | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.01 | 52.30  | 34.59 | 17.71 | 127.60 | -75.30 | 100  | 41 QP  | Open      |      |
| 2 | 0.03 | 63.12  | 43.94 | 19.18 | 119.18 | -56.06 | 100  | 142 QP | Open      |      |
| 3 | 0.05 | 40.62  | 21.37 | 19.25 | 113.16 | -72.54 | 100  | 358 QP | Open      |      |
| 4 | 0.06 | 40.64  | 21.58 | 19.06 | 111.82 | -71.18 | 100  | 277 QP | Open      |      |
| 5 | 0.08 | 38.50  | 19.80 | 18.70 | 109.77 | -71.27 | 100  | 158 QP | Open      |      |
| 6 | 0.10 | 34.97  | 16.74 | 18.23 | 107.30 | -72.33 | 100  | 156 QP | Open      |      |



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|   | Freq  | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.48  | 57.45  | 38.50 | 18.95 | 94.01  | -36.56 | 100  | 152 QP | Open      |      |
| 2 | 0.99  | 51.70  | 32.44 | 19.26 | 67.73  | -16.03 | 100  | 154 QP | Open      |      |
| 3 | 2.00  | 44.58  | 25.17 | 19.41 | 69.50  | -24.92 | 100  | 67 QP  | Open      |      |
| 4 | 13.82 | 35.27  | 13.50 | 21.77 | 69.50  | -34.23 | 100  | 43 QP  | Open      |      |
| 5 | 20.36 | 36.20  | 13.98 | 22.22 | 69.50  | -33.30 | 100  | 258 QP | Open      |      |
| 6 | 26.12 | 36.36  | 13.89 | 22.47 | 69.50  | -33.14 | 100  | 135 QP | Open      |      |

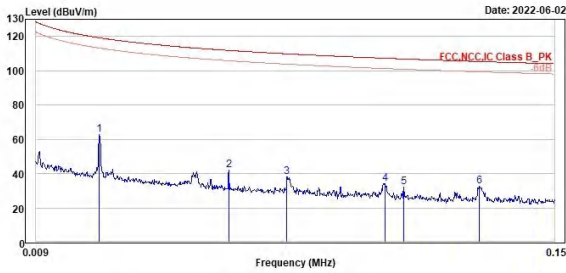
BLE\_2M

CH1 (Open) 9kHz~150kHz

CH1 (Open) 150kHz~30MHz



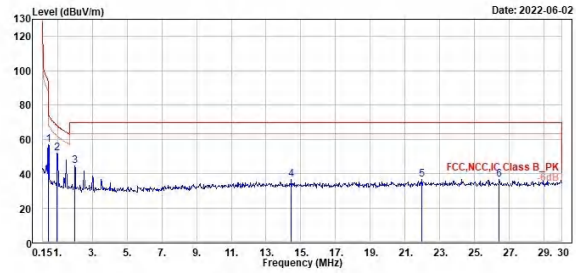
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|   | Freq | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.03 | 62.08  | 43.00 | 19.18 | 119.18 | -56.20 | 100  | 118 QP | Open      |      |
| 2 | 0.06 | 41.89  | 22.83 | 19.06 | 111.82 | -69.93 | 100  | 319 QP | Open      |      |
| 3 | 0.08 | 37.91  | 19.20 | 18.71 | 109.84 | -71.93 | 100  | 23 QP  | Open      |      |
| 4 | 0.10 | 34.35  | 16.12 | 18.23 | 107.26 | -72.91 | 100  | 317 QP | Open      |      |
| 5 | 0.11 | 32.11  | 13.86 | 18.25 | 106.84 | -74.73 | 100  | 144 QP | Open      |      |
| 6 | 0.13 | 32.42  | 14.10 | 18.32 | 105.35 | -72.93 | 100  | 243 QP | Open      |      |



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|   | Freq  | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.48  | 56.75  | 37.00 | 18.95 | 94.01  | -37.26 | 100  | 49 QP  | Open      |      |
| 2 | 0.99  | 51.81  | 32.55 | 19.26 | 67.73  | -15.92 | 100  | 156 QP | Open      |      |
| 3 | 2.00  | 44.43  | 25.02 | 19.41 | 69.50  | -25.07 | 100  | 156 QP | Open      |      |
| 4 | 14.45 | 36.45  | 14.64 | 21.81 | 69.50  | -33.05 | 100  | 312 QP | Open      |      |
| 5 | 21.94 | 36.35  | 14.06 | 22.29 | 69.50  | -33.15 | 100  | 195 QP | Open      |      |
| 6 | 26.42 | 36.38  | 13.89 | 22.49 | 69.50  | -33.12 | 100  | 282 QP | Open      |      |

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

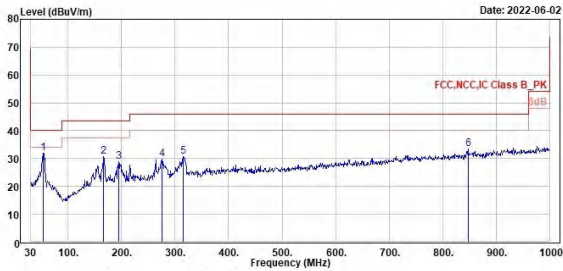
## BLE\_1M

### CH19 (Horizontal)

### CH19 (Vertical)



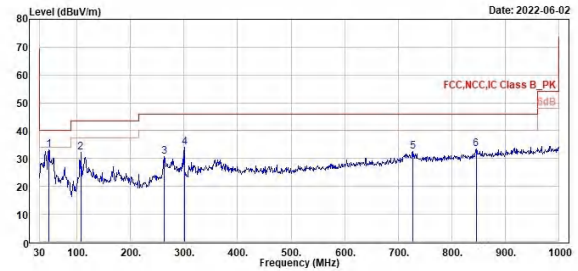
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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1 | 53.28  | 31.06  | 38.34 | -6.38 | 40.00  | -8.04  | 200  | 54   | QP   | Horizontal |           |      |
| 2 | 166.77 | 30.80  | 36.81 | -6.01 | 43.50  | -12.70 | 200  | 297  | QP   | Horizontal |           |      |
| 3 | 193.93 | 28.91  | 37.49 | -8.58 | 43.50  | -14.59 | 200  | 327  | QP   | Horizontal |           |      |
| 4 | 275.41 | 29.69  | 35.12 | -5.43 | 46.00  | -16.31 | 100  | 91   | QP   | Horizontal |           |      |
| 5 | 315.18 | 30.67  | 35.26 | -4.59 | 46.00  | -15.33 | 100  | 284  | QP   | Horizontal |           |      |
| 6 | 847.71 | 33.50  | 29.75 | 3.75  | 46.00  | -12.50 | 300  | 353  | QP   | 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     | dB   | cm   | deg  |          |           |      |
| 1 | 47.46  | 33.19  | 39.14 | -5.95  | 40.00  | -6.81  | 100  | 169  | QP   | Vertical |           |      |
| 2 | 106.63 | 32.22  | 42.26 | -10.04 | 43.50  | -11.28 | 100  | 126  | QP   | Vertical |           |      |
| 3 | 262.80 | 30.67  | 36.67 | -6.20  | 46.00  | -15.33 | 100  | 161  | QP   | Vertical |           |      |
| 4 | 300.63 | 34.02  | 38.74 | -4.72  | 46.00  | -11.98 | 100  | 10   | QP   | Vertical |           |      |
| 5 | 727.43 | 32.44  | 30.56 | 1.88   | 46.00  | -13.56 | 100  | 56   | QP   | Vertical |           |      |
| 6 | 845.77 | 33.38  | 29.65 | 3.73   | 46.00  | -12.62 | 200  | 44   | QP   | Vertical |           |      |

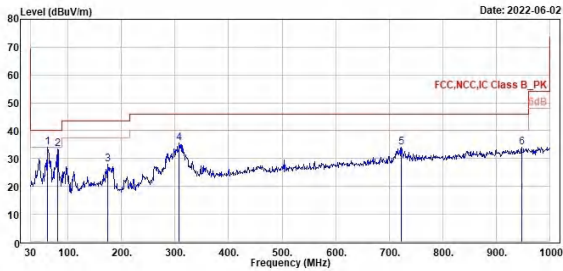
BLE\_2M

CH1 (Horizontal)

CH1 (Vertical)



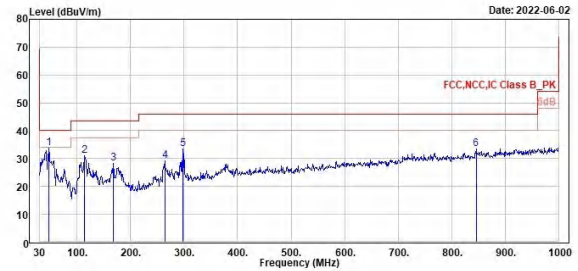
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|   | Freq   | Level  | Read  | Limit  | Over  | APos   | TPos | Remark | Pol/Phase  | Note |
|---|--------|--------|-------|--------|-------|--------|------|--------|------------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m   | dB    | cm     | deg  |        |            |      |
| 1 | 62.81  | 33.86  | 41.42 | -7.46  | 40.00 | -6.04  | 100  | 360 QP | Horizontal |      |
| 2 | 80.44  | 33.38  | 43.85 | -10.47 | 40.00 | -6.62  | 100  | 360 QP | Horizontal |      |
| 3 | 173.56 | 28.11  | 34.66 | -6.55  | 43.50 | -15.39 | 300  | 137 QP | Horizontal |      |
| 4 | 307.42 | 35.70  | 40.41 | -4.71  | 46.00 | -10.30 | 300  | 138 QP | Horizontal |      |
| 5 | 722.58 | 34.08  | 32.32 | 1.76   | 46.00 | -11.92 | 100  | 293 QP | Horizontal |      |
| 6 | 947.62 | 34.21  | 28.84 | 5.37   | 46.00 | -11.79 | 294  | 360 QP | Horizontal |      |



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|   | Freq   | Level  | Read  | Limit | Over  | APos   | TPos | Remark   | Pol/Phase | Note |
|---|--------|--------|-------|-------|-------|--------|------|----------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dB    | cm     | deg  |          |           |      |
| 1 | 47.46  | 33.89  | 39.84 | -5.95 | 40.00 | -6.11  | 100  | 86 Peak  | Vertical  |      |
| 2 | 114.39 | 31.10  | 40.17 | -9.07 | 43.50 | -12.40 | 100  | 256 Peak | Vertical  |      |
| 3 | 167.74 | 28.15  | 34.14 | -5.99 | 43.50 | -15.35 | 100  | 72 Peak  | Vertical  |      |
| 4 | 263.77 | 29.31  | 35.47 | -6.16 | 46.00 | -16.69 | 100  | 158 Peak | Vertical  |      |
| 5 | 297.72 | 33.43  | 38.21 | -4.78 | 46.00 | -12.57 | 0    | 0 Peak   | Vertical  |      |
| 6 | 845.77 | 33.57  | 29.84 | 3.73  | 46.00 | -12.43 | 100  | 227 Peak | Vertical  |      |

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

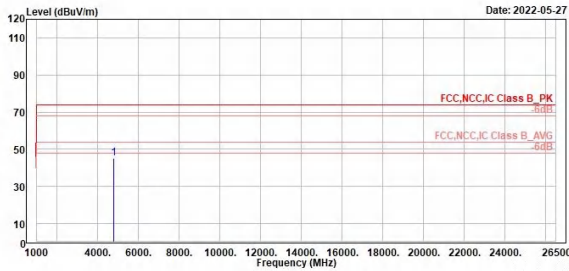
**BLE\_1M**

**CH0 (Horizontal)**

**CH0 (Vertical)**



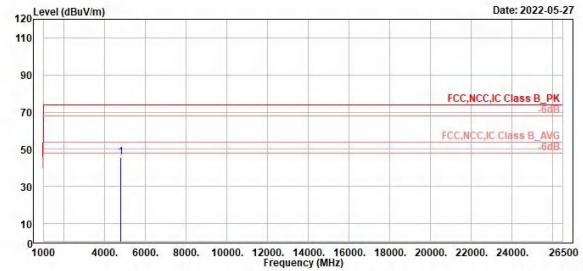
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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark   | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|----------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |          |            |      |
| 1    | 4884.00 | 45.39 | 55.26 | -9.87  | 74.00 | -28.61 | 100  | 359 Peak | Horizontal |      |



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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |         |           |      |
| 1    | 4884.00 | 45.48 | 55.35 | -9.87  | 74.00 | -28.52 | 152  | 49 Peak | Vertical  |      |

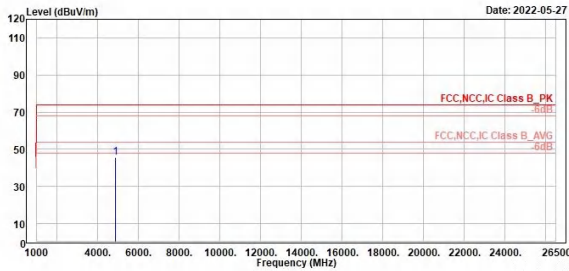
**BLE\_1M**

**CH19 (Horizontal)**

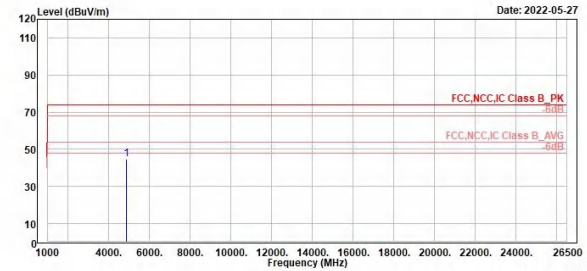
**CH19 (Vertical)**



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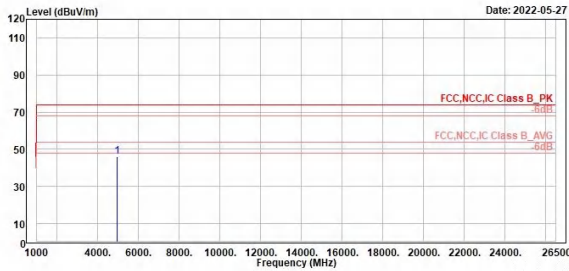
**BLE\_1M**

**CH39 (Horizontal)**

**CH39 (Vertical)**



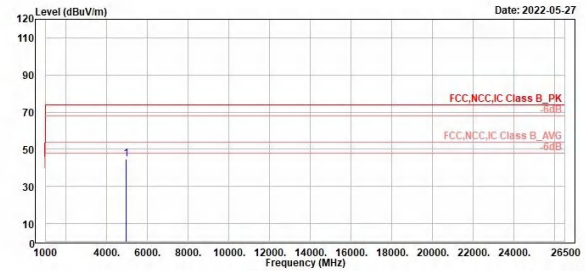
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 4960.00 | 46.06 | 55.68 | -9.54  | 74.00 | -27.94 | 301  | 0    | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 4960.00 | 44.57 | 54.11 | -9.54  | 74.00 | -29.43 | 200  | 284  | Peak   | Vertical  |      |

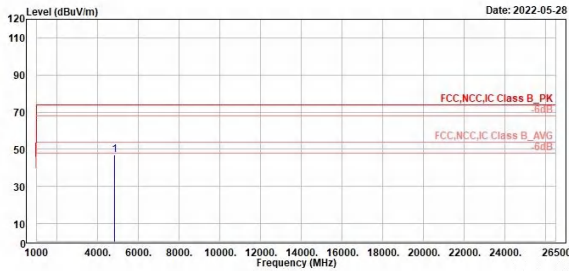
**BLE\_2M**

**CH1 (Horizontal)**

**CH (Vertical)**



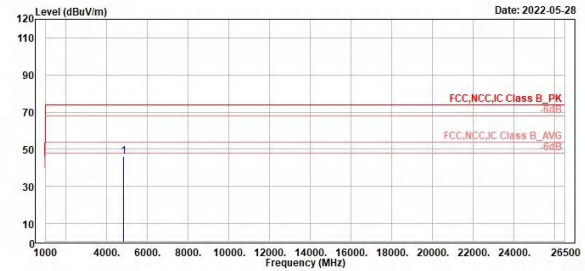
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 4888.00 | 47.00 | 56.85 | -9.85  | 74.00 | -27.00 | 170  | 352  | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 4888.00 | 46.13 | 55.98 | -9.85  | 74.00 | -27.87 | 357  | 360  | Peak   | Vertical  |      |

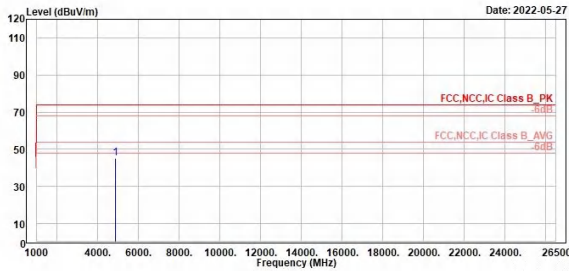
**BLE\_2M**

**CH19 (Horizontal)**

**CH19 (Vertical)**



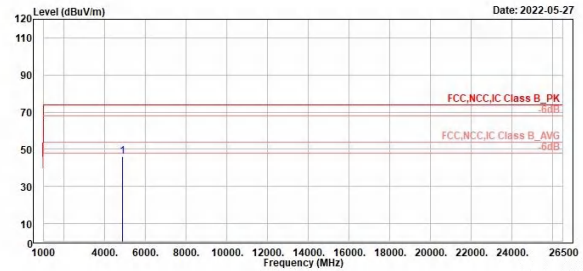
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| Freq      | Level  | Read  | Level | Limit  | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|-----------|--------|-------|-------|--------|--------|------|------|--------|------------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |        |            |      |
| 1 4880.00 | 45.00  | 54.78 | -9.78 | 74.00  | -29.00 | 292  | 0    | Peak   | Horizontal |      |



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| Freq      | Level  | Read  | Level | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|-----------|--------|-------|-------|--------|--------|------|------|--------|-----------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 4880.00 | 46.17  | 55.96 | -9.79 | 74.00  | -27.83 | 300  | 269  | Peak   | Vertical  |      |

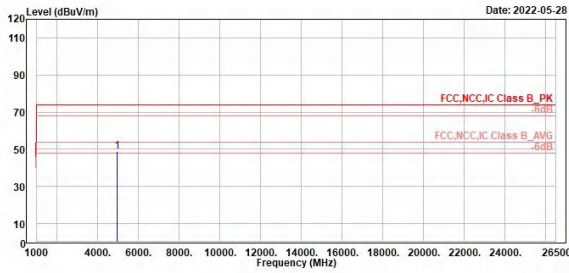
**BLE\_2M**

**CH38 (Horizontal)**

**CH38 (Vertical)**



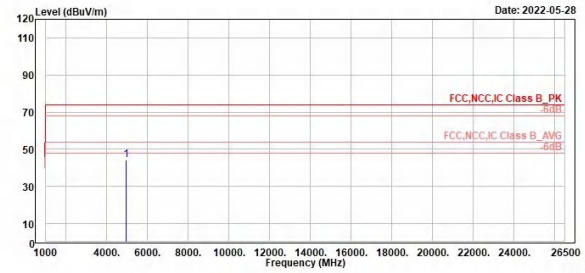
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 4956.00 | 48.73 | 58.28 | -9.55  | 74.00 | -25.27 | 100  | 359  | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 4956.00 | 44.27 | 53.82 | -9.55  | 74.00 | -29.73 | 300  | 283  | Peak   | Vertical  |      |

# Test Results of Radiated Spurious Emissions for ANT 4

(UFL, ECC, Buck PWM On)

Band Edges, 2.31GHz ~ 2.9GHz

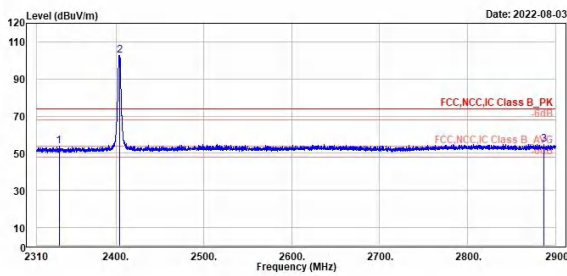
## BLE\_2M

### CH1 (Horizontal) Peak

### CH1 (Vertical) Peak



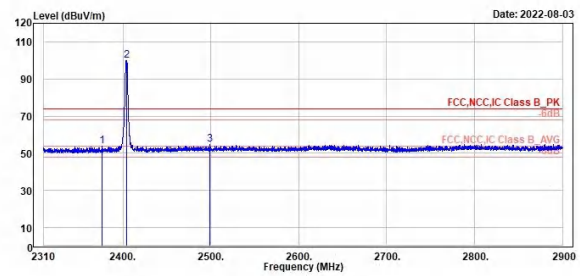
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2335.37 | 53.89  | 16.56 | 37.33  | 74.00 | -20.11 | 229  | 346  | Peak   | Horizontal |      |
| 2 *  | 2404.00 | 102.63 | 64.99 | 37.64  | 74.00 | 28.63  | 229  | 346  | Peak   | Horizontal |      |
| 3    | 2887.14 | 54.86  | 16.50 | 38.36  | 74.00 | -19.14 | 229  | 346  | 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    | 2376.32 | 53.71 | 16.20 | 37.51  | 74.00 | -20.29 | 382  | 106  | Peak   | Vertical  |      |
| 2 *  | 2404.00 | 99.98 | 62.34 | 37.64  | 74.00 | 25.98  | 382  | 106  | Peak   | Vertical  |      |
| 3    | 2499.04 | 54.84 | 16.99 | 37.85  | 74.00 | -19.16 | 382  | 106  | Peak   | Vertical  |      |

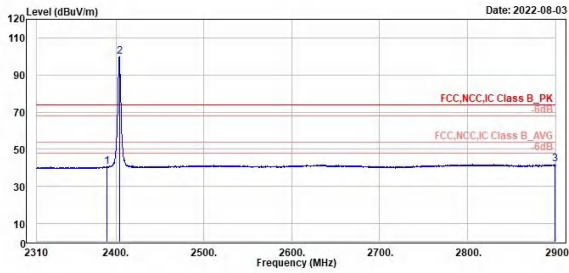
**BLE\_2M**

**CH1 (Horizontal) Average**

**CH1 (Vertical) Average**



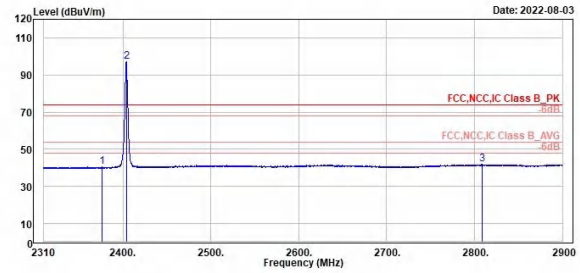
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| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2390.00 | 40.64 | 3.06  | 37.58  | 54.00 | -13.36 | 229  | 346  | Average | Horizontal |      |
| 2 *  | 2404.00 | 99.76 | 62.12 | 37.64  | 54.00 | 45.76  | 229  | 346  | Average | Horizontal |      |
| 3    | 2899.53 | 41.87 | 3.45  | 38.42  | 54.00 | -12.13 | 229  | 346  | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2376.67 | 40.48 | 2.97  | 37.51  | 54.00 | -13.52 | 382  | 106  | Average | Vertical  |      |
| 2 *  | 2404.00 | 97.05 | 59.41 | 37.64  | 54.00 | 43.05  | 382  | 106  | Average | Vertical  |      |
| 3    | 2888.55 | 41.79 | 3.60  | 38.19  | 54.00 | -12.21 | 382  | 106  | Average | Vertical  |      |

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

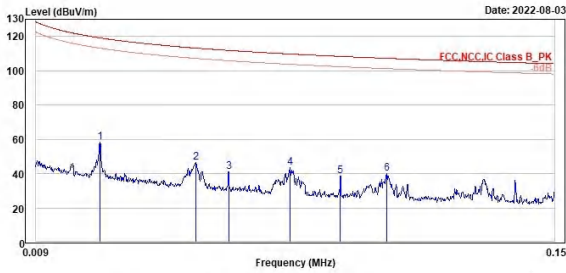
## BLE\_2M

### CH1 (Open) 9kHz~150kHz

### CH1 (Open) 150kHz~30MHz



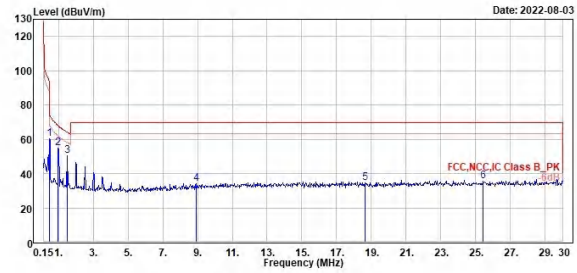
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|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dB/m   | dB     | dB   | cm   | deg  |        |           |      |
| 1 | 0.03 | 58.50  | 39.31 | 19.19 | 119.13 | -60.63 | 100  | 34   | QP   | Open   |           |      |
| 2 | 0.05 | 46.29  | 27.03 | 19.26 | 113.20 | -66.91 | 100  | 209  | QP   | Open   |           |      |
| 3 | 0.06 | 40.89  | 21.83 | 19.06 | 111.82 | -70.93 | 100  | 360  | QP   | Open   |           |      |
| 4 | 0.08 | 43.70  | 25.01 | 18.69 | 109.74 | -66.04 | 100  | 208  | QP   | Open   |           |      |
| 5 | 0.09 | 38.79  | 20.40 | 18.39 | 108.34 | -69.55 | 100  | 88   | QP   | Open   |           |      |
| 6 | 0.10 | 40.09  | 21.05 | 18.24 | 107.23 | -67.14 | 100  | 212  | QP   | Open   |           |      |



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|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dB/m   | dB     | dB   | cm   | deg  |        |           |      |
| 1 | 0.48  | 60.10  | 41.15 | 18.95 | 94.01  | -33.91 | 100  | 144  | QP   | Open   |           |      |
| 2 | 0.99  | 54.83  | 35.57 | 19.26 | 67.73  | -12.90 | 100  | 221  | QP   | Open   |           |      |
| 3 | 1.49  | 50.26  | 30.92 | 19.34 | 64.12  | -13.86 | 100  | 357  | QP   | Open   |           |      |
| 4 | 8.93  | 34.25  | 13.27 | 20.98 | 69.50  | -35.25 | 100  | 87   | QP   | Open   |           |      |
| 5 | 18.66 | 34.76  | 12.65 | 22.11 | 69.50  | -34.74 | 100  | 360  | QP   | Open   |           |      |
| 6 | 25.43 | 35.59  | 13.15 | 22.44 | 69.50  | -33.91 | 100  | 43   | QP   | Open   |           |      |

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

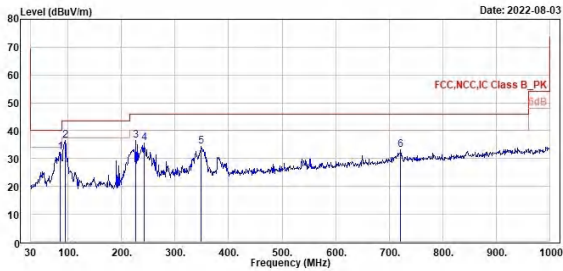
## BLE\_2M

### CH1 (Horizontal)

### CH1 (Vertical)



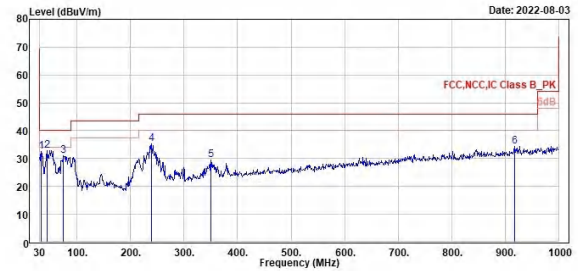
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|   | Freq   | Level  | Read  | Level  | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|--------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1 | 85.29  | 32.33  | 44.04 | -11.71 | 40.00  | -7.67  | 300  | 163  | QP   | Horizontal |           |      |
| 2 | 94.02  | 36.38  | 48.08 | -12.50 | 43.50  | -7.12  | 400  | 270  | QP   | Horizontal |           |      |
| 3 | 226.91 | 36.55  | 44.05 | -7.50  | 46.00  | -9.45  | 200  | 230  | QP   | Horizontal |           |      |
| 4 | 241.46 | 35.59  | 42.31 | -6.72  | 46.00  | -10.41 | 100  | 305  | QP   | Horizontal |           |      |
| 5 | 349.13 | 34.31  | 38.22 | -3.91  | 46.00  | -11.69 | 100  | 71   | QP   | Horizontal |           |      |
| 6 | 721.61 | 33.61  | 31.25 | 1.76   | 46.00  | -12.99 | 131  | 360  | QP   | 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     | dB   | cm   | deg  |          |           |      |
| 1 | 32.91  | 32.40  | 39.91 | -7.51 | 40.00  | -7.60  | 100  | 326  | QP   | Vertical |           |      |
| 2 | 43.50  | 32.91  | 38.84 | -5.93 | 40.00  | -7.09  | 100  | 114  | QP   | Vertical |           |      |
| 3 | 74.62  | 31.13  | 40.63 | -9.50 | 40.00  | -8.87  | 100  | 161  | QP   | Vertical |           |      |
| 4 | 239.52 | 35.37  | 42.11 | -6.74 | 46.00  | -10.63 | 100  | 161  | QP   | Vertical |           |      |
| 5 | 350.10 | 29.39  | 33.28 | -3.89 | 46.00  | -16.61 | 100  | 335  | QP   | Vertical |           |      |
| 6 | 918.52 | 34.44  | 29.47 | 4.97  | 46.00  | -11.56 | 200  | 86   | QP   | Vertical |           |      |

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

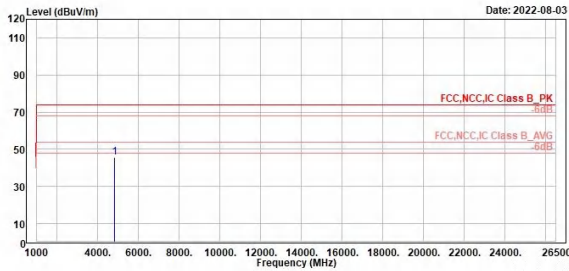
## BLE\_2M

### CH1 (Horizontal)

### CH1 (Vertical)



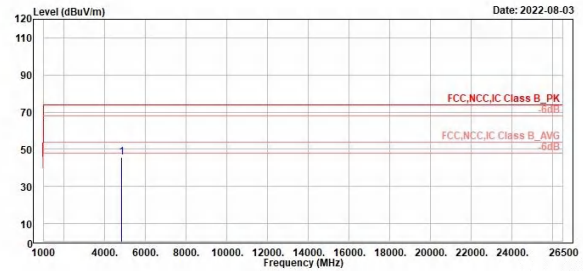
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| Freq      | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase  | Note |
|-----------|--------|-------|-------|--------|--------|------|------|------|--------|------------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dB/m   | dB     | dB   | cm   | deg  |        |            |      |
| 1 4888.00 | 45.69  | 55.54 | -9.85 | 74.00  | -28.31 |      | 255  | 33   | 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  | dB/m   | dB     | dB   | cm   | deg  |        |           |      |
| 1 4888.00 | 45.71  | 55.56 | -9.85 | 74.00  | -28.29 |      | 100  | 195  | Peak   | Vertical  |      |

# Test Results of Radiated Spurious Emissions & Mains Conducted

## Emission Test for ANT 4 (UFL, ECC, 2<sup>nd</sup> Source)

### Band Edges, 2.31GHz ~ 2.9GHz

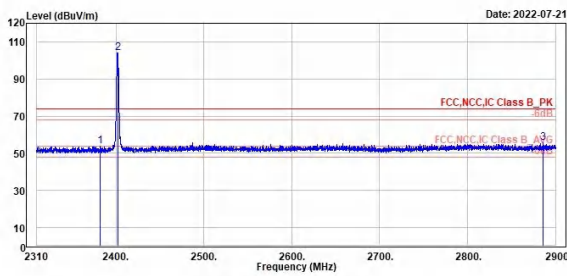
#### BLE\_1M

##### CH0 (Horizontal) Peak

##### CH0 (Vertical) Peak



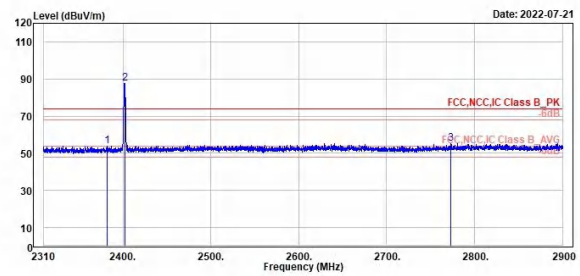
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| Peak | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|------|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|      | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1    | 2382.22 | 53.81  | 16.27 | 37.54 | 74.00  | -20.19 | 159  | 0    | Peak | Horizontal |           |      |
| 2 *  | 2402.00 | 103.93 | 66.39 | 37.63 | 74.00  | 29.93  | 159  | 0    | Peak | Horizontal |           |      |
| 3    | 2885.96 | 55.57  | 17.22 | 38.35 | 74.00  | -18.43 | 159  | 0    | 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   | deg  |      |          |           |      |
| 1    | 2382.10 | 53.89  | 16.35 | 37.54 | 74.00  | -20.11 | 282  | 270  | Peak | Vertical |           |      |
| 2 *  | 2402.00 | 87.75  | 50.12 | 37.63 | 74.00  | 13.75  | 282  | 270  | Peak | Vertical |           |      |
| 3    | 2773.27 | 55.36  | 17.19 | 38.17 | 74.00  | -18.64 | 282  | 270  | Peak | Vertical |           |      |

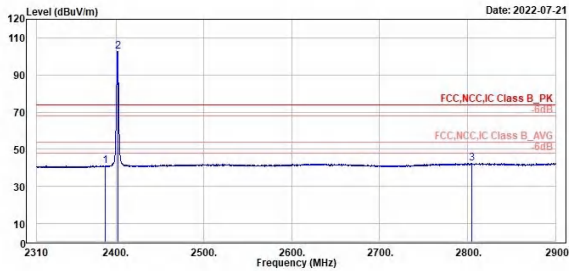
**BLE\_1M**

**CH0 (Horizontal) Average**

**CH0 (Vertical) Average**



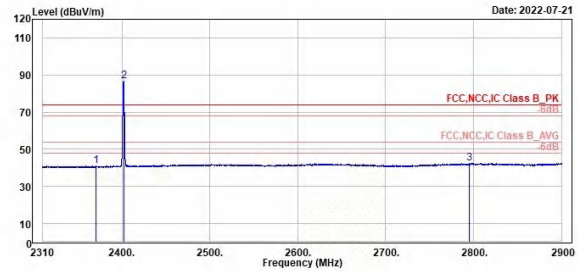
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2387.88 | 41.12  | 3.55  | 37.57  | 54.00 | -12.88 | 159  | 0    | Average | Horizontal |      |
| 2 *  | 2482.00 | 102.86 | 65.23 | 37.63  | 54.00 | 48.86  | 159  | 0    | Average | Horizontal |      |
| 3    | 2884.42 | 42.40  | 4.20  | 38.20  | 54.00 | -11.60 | 159  | 0    | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2370.89 | 41.12 | 3.64  | 37.48  | 54.00 | -12.88 | 282  | 270  | Average | Vertical  |      |
| 2 *  | 2482.00 | 86.53 | 48.90 | 37.63  | 54.00 | 32.53  | 282  | 270  | Average | Vertical  |      |
| 3    | 2794.98 | 42.56 | 4.36  | 38.20  | 54.00 | -11.44 | 282  | 270  | Average | Vertical  |      |

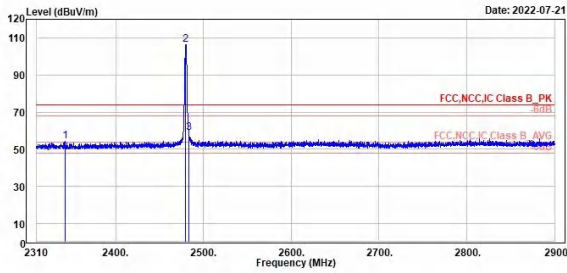
BLE\_1M

CH39 (Horizontal) Peak

CH39 (Vertical) Peak



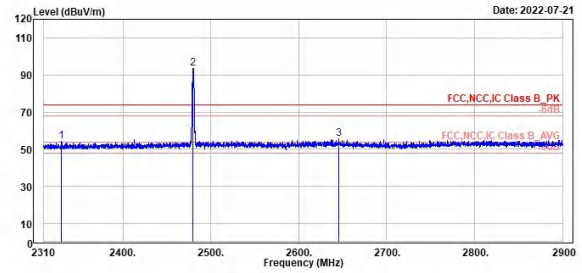
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1   | 2342.69 | 54.09  | 16.74 | 37.35 | 74.00  | -19.91 | 236  | 4    | Peak | Horizontal |           |      |
| 2 * | 2480.00 | 106.19 | 68.40 | 37.79 | 74.00  | 32.19  | 236  | 4    | Peak | Horizontal |           |      |
| 3   | 2483.46 | 58.64  | 20.84 | 37.80 | 74.00  | -15.36 | 236  | 4    | 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     | dB   | cm   | deg  |          |           |      |
| 1   | 2330.41 | 54.24  | 16.93 | 37.31 | 74.00  | -19.76 | 400  | 108  | Peak | Vertical |           |      |
| 2 * | 2480.00 | 93.49  | 55.70 | 37.79 | 74.00  | 19.49  | 400  | 108  | Peak | Vertical |           |      |
| 3   | 2645.36 | 55.68  | 17.66 | 38.02 | 74.00  | -18.32 | 400  | 108  | Peak | Vertical |           |      |

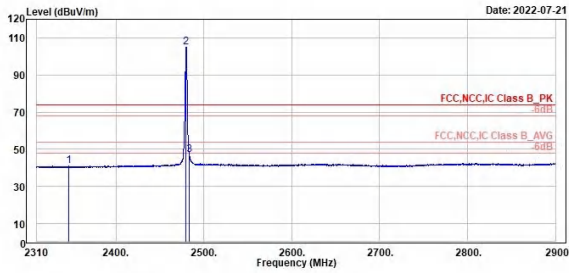
**BLE\_1M**

**CH39 (Horizontal) Average**

**CH39 (Vertical) Average**



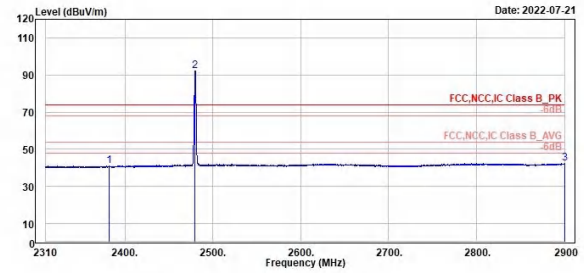
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2346.34 | 48.89  | 3.53  | 37.36  | 54.00 | -13.11 | 236  | 4    | Average | Horizontal |      |
| 2 *  | 2480.00 | 105.07 | 67.28 | 37.79  | 54.00 | 51.07  | 236  | 4    | Average | Horizontal |      |
| 3    | 2483.46 | 47.10  | 9.30  | 37.80  | 54.00 | -6.90  | 236  | 4    | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2382.45 | 41.01 | 3.47  | 37.54  | 54.00 | -12.99 | 400  | 108  | Average | Vertical  |      |
| 2 *  | 2480.00 | 92.32 | 54.53 | 37.79  | 54.00 | 38.32  | 400  | 108  | Average | Vertical  |      |
| 3    | 2899.88 | 42.61 | 4.19  | 38.42  | 54.00 | -11.39 | 400  | 108  | Average | Vertical  |      |

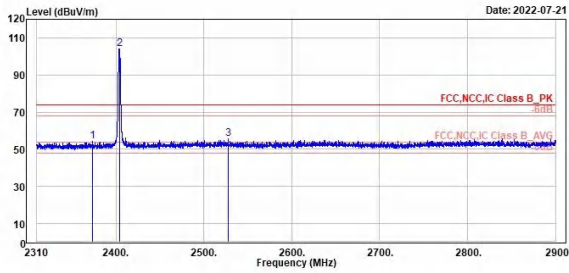
**BLE\_2M**

**CH1 (Horizontal) Peak**

**CH1 (Vertical) Peak**



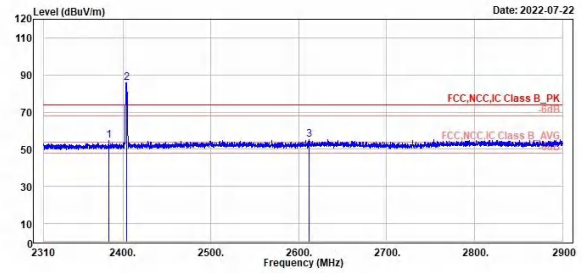
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |        |            |      |
| 1    | 2373.72 | 54.26  | 16.77 | 37.49  | 74.00 | -19.74 | 161  | 0    | Peak   | Horizontal |      |
| 2 *  | 2404.00 | 104.21 | 66.57 | 37.64  | 74.00 | 30.21  | 161  | 0    | Peak   | Horizontal |      |
| 3    | 2527.95 | 55.88  | 18.00 | 37.88  | 74.00 | -18.12 | 161  | 0    | 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    | dB     | cm   | deg  |        |           |      |
| 1    | 2383.87 | 54.60 | 17.05 | 37.55  | 74.00 | -19.40 | 254  | 269  | Peak   | Vertical  |      |
| 2 *  | 2404.00 | 85.98 | 48.34 | 37.64  | 74.00 | 11.98  | 254  | 269  | Peak   | Vertical  |      |
| 3    | 2612.28 | 55.20 | 17.22 | 37.98  | 74.00 | -18.80 | 254  | 269  | Peak   | Vertical  |      |

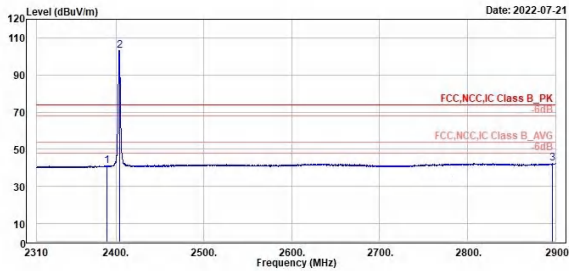
**BLE\_2M**

**CH1 (Horizontal) Average**

**CH1 (Vertical) Average**



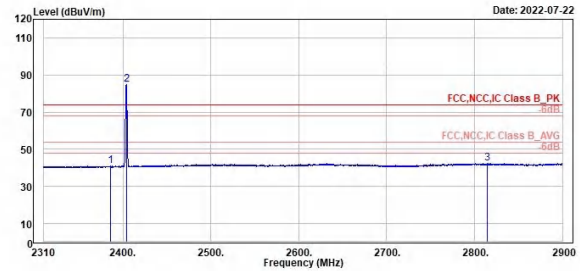
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2390.00 | 41.05  | 3.47  | 37.58  | 54.00 | -12.95 | 161  | 0    | Average | Horizontal |      |
| 2 *  | 2404.00 | 103.14 | 65.50 | 37.64  | 54.00 | 49.14  | 161  | 0    | Average | Horizontal |      |
| 3    | 2896.70 | 42.49  | 4.08  | 38.41  | 54.00 | -11.51 | 161  | 0    | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2386.11 | 40.96 | 3.40  | 37.56  | 54.00 | -13.04 | 254  | 269  | Average | Vertical  |      |
| 2 *  | 2404.00 | 84.83 | 47.19 | 37.64  | 54.00 | 30.83  | 254  | 269  | Average | Vertical  |      |
| 3    | 2814.10 | 42.29 | 4.10  | 38.19  | 54.00 | -11.71 | 254  | 269  | Average | Vertical  |      |

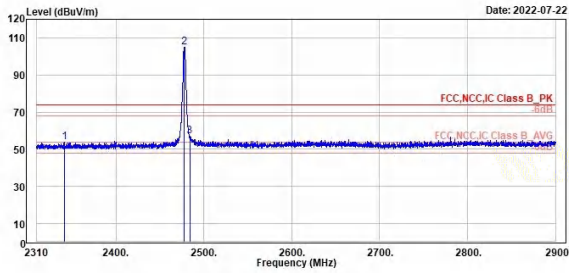
**BLE\_2M**

**CH38 (Horizontal) Peak**

**CH38 (Vertical) Peak**



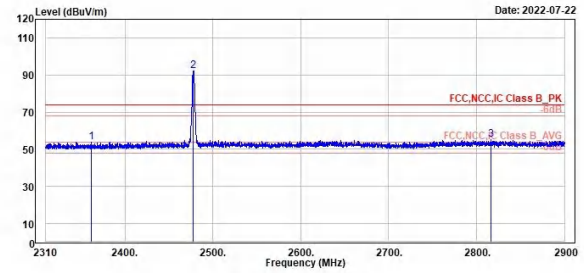
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dB/m   | dBuV/m | dB   | cm   | deg  |            |           |      |
| 1   | 2341.98 | 53.76  | 16.42 | 37.34 | 74.00  | -20.24 | 294  | 184  | Peak | Horizontal |           |      |
| 2 * | 2478.00 | 105.13 | 67.35 | 37.78 | 74.00  | 31.13  | 294  | 184  | Peak | Horizontal |           |      |
| 3   | 2483.93 | 57.06  | 19.26 | 37.80 | 74.00  | -16.94 | 294  | 184  | 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  | dB/m   | dBuV/m | dB   | cm   | deg  |          |           |      |
| 1   | 2361.00 | 53.97  | 16.53 | 37.44 | 74.00  | -20.03 | 400  | 280  | Peak | Vertical |           |      |
| 2 * | 2478.00 | 92.37  | 54.59 | 37.78 | 74.00  | 18.37  | 400  | 280  | Peak | Vertical |           |      |
| 3   | 2816.34 | 55.01  | 16.82 | 38.19 | 74.00  | -18.99 | 400  | 280  | Peak | Vertical |           |      |

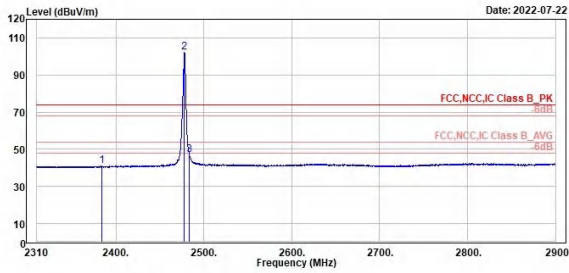
BLE\_2M

CH38 (Horizontal) Average

CH38 (Vertical) Average



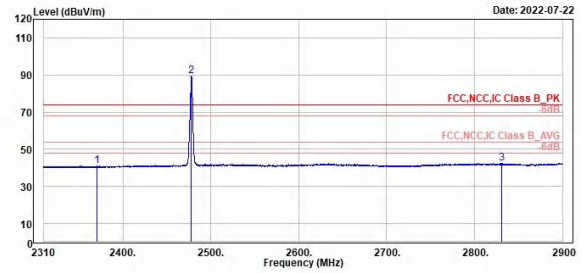
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2383.99 | 48.89  | 3.34  | 37.55  | 54.00 | -13.11 | 294  | 184  | Average | Horizontal |      |
| 2 *  | 2478.00 | 102.11 | 64.33 | 37.78  | 54.00 | 48.11  | 294  | 184  | Average | Horizontal |      |
| 3    | 2483.46 | 47.10  | 9.30  | 37.80  | 54.00 | -6.90  | 294  | 184  | Average | Horizontal |      |



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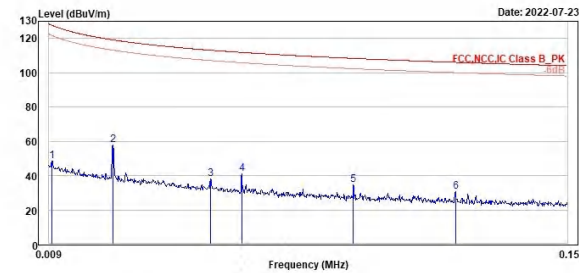
| Freq | Level   | Read  | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |           |      |
| 1    | 2370.53 | 41.03 | 3.55  | 37.48  | 54.00 | -12.97 | 400  | 280  | Average | Vertical  |      |
| 2 *  | 2478.00 | 89.42 | 51.64 | 37.78  | 54.00 | 35.42  | 400  | 280  | Average | Vertical  |      |
| 3    | 2830.38 | 42.34 | 4.16  | 38.18  | 54.00 | -11.66 | 400  | 280  | Average | Vertical  |      |

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

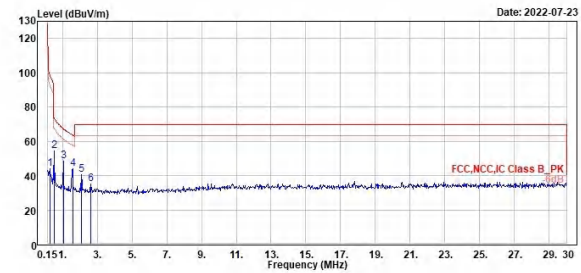
## BLE\_2M

### CH19 (Open) 9kHz~150kHz

### CH19 (Open) 150kHz~30MHz



|   | Freq | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.61 | 48.45  | 38.69 | 17.76 | 127.72 | -79.27 | 100  | 257 QP | Open      |      |
| 2 | 0.83 | 57.77  | 38.58 | 19.19 | 119.13 | -61.36 | 100  | 286 QP | Open      |      |
| 3 | 0.85 | 38.84  | 18.80 | 19.24 | 113.11 | -75.07 | 100  | 124 QP | Open      |      |
| 4 | 0.86 | 40.78  | 21.72 | 19.06 | 111.82 | -71.04 | 100  | 225 QP | Open      |      |
| 5 | 0.89 | 34.39  | 16.00 | 18.39 | 108.34 | -73.95 | 100  | 161 QP | Open      |      |
| 6 | 0.12 | 30.58  | 12.29 | 18.29 | 106.05 | -75.47 | 100  | 158 QP | Open      |      |



|   | Freq | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 0.27 | 44.23  | 25.41 | 18.82 | 98.99  | -54.76 | 100  | 35 QP  | Open      |      |
| 2 | 0.51 | 54.56  | 35.61 | 18.95 | 73.48  | -18.92 | 100  | 164 QP | Open      |      |
| 3 | 1.05 | 48.34  | 29.87 | 19.27 | 67.22  | -18.88 | 100  | 169 QP | Open      |      |
| 4 | 1.58 | 43.76  | 24.41 | 19.35 | 63.62  | -19.86 | 100  | 164 QP | Open      |      |
| 5 | 2.09 | 40.77  | 21.35 | 19.42 | 69.50  | -28.73 | 100  | 162 QP | Open      |      |
| 6 | 2.63 | 34.89  | 15.41 | 19.48 | 69.50  | -34.61 | 100  | 132 QP | Open      |      |

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

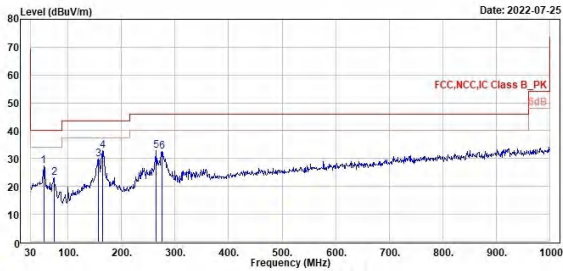
## BLE\_2M

### CH19 (Horizontal)

### CH19 (Vertical)



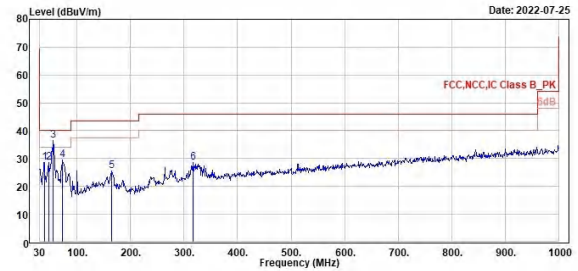
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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1 | 54.25  | 27.45  | 33.85 | -6.40 | 40.00  | -12.55 | 200  | 62   | QP   | Horizontal |           |      |
| 2 | 73.65  | 23.27  | 32.57 | -9.30 | 40.00  | -16.73 | 200  | 272  | QP   | Horizontal |           |      |
| 3 | 156.10 | 29.94  | 36.02 | -6.08 | 43.50  | -13.56 | 200  | 272  | QP   | Horizontal |           |      |
| 4 | 164.83 | 32.78  | 38.70 | -5.92 | 43.50  | -10.72 | 200  | 252  | QP   | Horizontal |           |      |
| 5 | 263.77 | 32.72  | 38.88 | -6.16 | 46.00  | -13.28 | 100  | 91   | QP   | Horizontal |           |      |
| 6 | 275.41 | 32.43  | 37.86 | -5.43 | 46.00  | -13.57 | 100  | 124  | QP   | 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 | 38.73  | 28.63  | 34.98 | -6.35 | 40.00  | -11.37 | 100  | 101  | QP   | Vertical |           |      |
| 2 | 46.49  | 28.69  | 34.56 | -5.87 | 40.00  | -11.31 | 100  | 256  | QP   | Vertical |           |      |
| 3 | 55.22  | 36.52  | 43.04 | -6.52 | 40.00  | -3.48  | 100  | 164  | QP   | Vertical |           |      |
| 4 | 72.68  | 29.56  | 38.58 | -9.02 | 40.00  | -10.44 | 100  | 360  | QP   | Vertical |           |      |
| 5 | 163.86 | 25.48  | 31.41 | -5.93 | 43.50  | -18.02 | 200  | 18   | QP   | Vertical |           |      |
| 6 | 317.12 | 28.64  | 35.17 | -6.53 | 46.00  | -17.36 | 100  | 182  | QP   | Vertical |           |      |

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

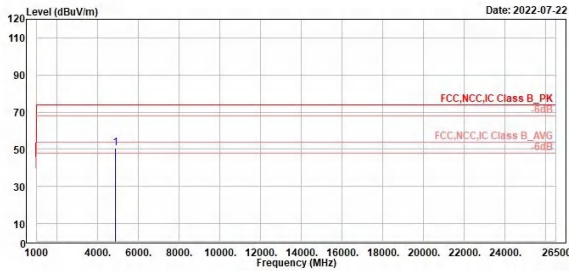
**BLE\_1M**

**CH19 (Horizontal)**

**CH19 (Vertical)**



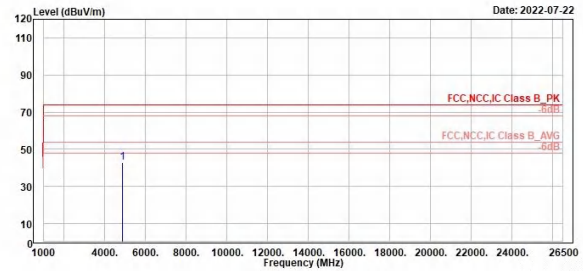
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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark   | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|----------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |          |            |      |
| 1    | 4880.00 | 50.46 | 60.25 | -9.79  | 74.00 | -23.54 | 100  | 314 Peak | Horizontal |      |



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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |         |           |      |
| 1    | 4880.00 | 42.88 | 52.67 | -9.79  | 74.00 | -31.12 | 261  | 35 Peak | Vertical  |      |

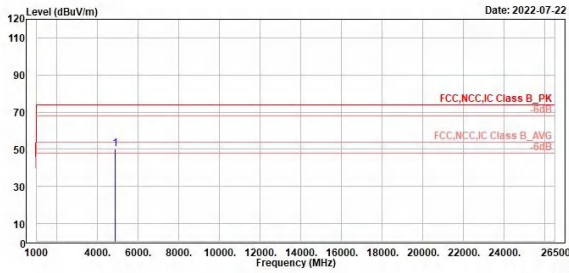
**BLE\_2M**

**CH19 (Horizontal)**

**CH19 (Vertical)**



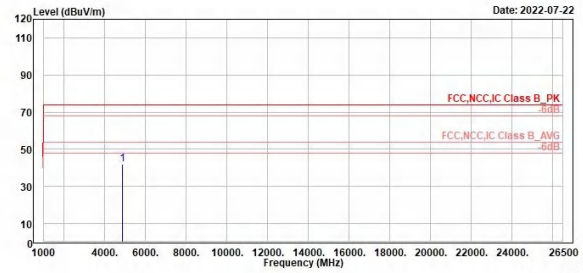
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| Freq      | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase  | Note |
|-----------|--------|-------|-------|--------|--------|------|------|------|--------|------------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |            |      |
| 1 4880.00 | 50.22  | 60.01 | -9.79 | 74.00  | -23.78 |      | 268  | 3    | 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     | dB   | cm   | deg  |        |           |      |
| 1 4880.00 | 41.84  | 51.63 | -9.79 | 74.00  | -32.16 |      | 304  | 360  | Peak   | Vertical  |      |

# Test Results of Radiated Spurious Emissions for ANT 4

(ECC, 2<sup>nd</sup> Source, Buck PWM On)

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

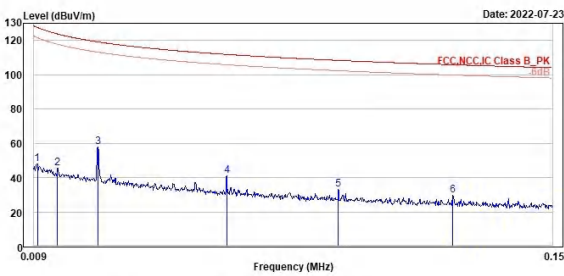
## BLE\_2M

### CH19 (Open) 9kHz~150kHz

### CH19 (Open) 150kHz~30MHz



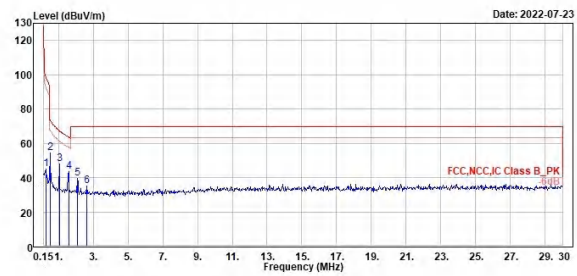
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| Freq | Level  | Read  | Limit | Over   | APos   | TPos   | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|--------|--------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm     | deg    |           |      |
| 1    | 0.01   | 47.97 | 30.26 | 17.71  | 127.60 | -79.63 | 100    | 360 QP    | Open |
| 2    | 0.02   | 45.48 | 27.28 | 18.20  | 123.79 | -78.31 | 100    | 313 QP    | Open |
| 3    | 0.03   | 57.95 | 38.76 | 19.19  | 119.13 | -61.18 | 100    | 268 QP    | Open |
| 4    | 0.06   | 40.87 | 21.81 | 19.06  | 111.82 | -70.95 | 100    | 78 QP     | Open |
| 5    | 0.09   | 32.99 | 14.68 | 18.39  | 108.34 | -75.35 | 100    | 194 QP    | Open |
| 6    | 0.12   | 29.85 | 11.55 | 18.30  | 105.80 | -75.95 | 100    | 114 QP    | Open |



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| Freq | Level  | Read  | Limit | Over   | APos  | TPos   | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|-------|--------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg    |           |      |
| 1    | 0.27   | 44.81 | 25.99 | 18.62  | 98.99 | -54.18 | 100    | 175 QP    | Open |
| 2    | 0.51   | 54.58 | 35.63 | 18.95  | 73.48 | -18.90 | 100    | 168 QP    | Open |
| 3    | 1.05   | 48.00 | 28.73 | 19.27  | 67.22 | -19.22 | 100    | 169 QP    | Open |
| 4    | 1.58   | 43.60 | 24.25 | 19.35  | 63.62 | -20.02 | 100    | 147 QP    | Open |
| 5    | 2.09   | 39.74 | 20.32 | 19.42  | 69.50 | -29.76 | 100    | 168 QP    | Open |
| 6    | 2.63   | 35.02 | 15.54 | 19.48  | 69.50 | -34.48 | 100    | 170 QP    | Open |

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

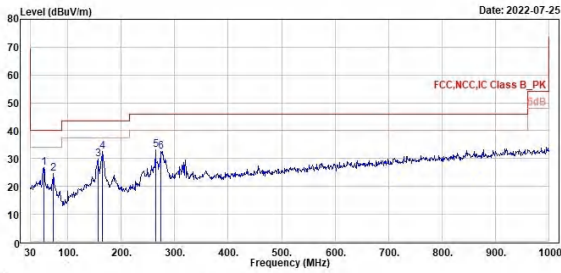
## BLE\_2M

### CH19 (Horizontal)

### CH19 (Vertical)



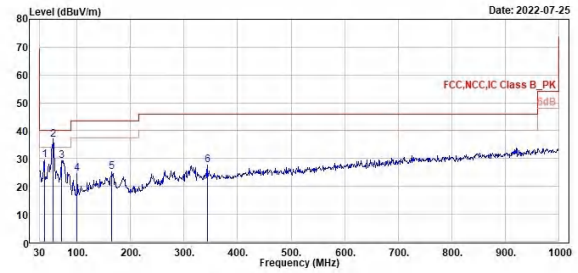
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|   | Freq   | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase  | Note |
|---|--------|--------|-------|-------|--------|--------|------|--------|------------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |            |      |
| 1 | 55.22  | 26.92  | 33.44 | -6.52 | 40.00  | -13.08 | 200  | 25 QP  | Horizontal |      |
| 2 | 72.68  | 24.54  | 33.56 | -9.02 | 40.00  | -15.46 | 200  | 112 QP | Horizontal |      |
| 3 | 156.10 | 29.68  | 35.76 | -6.08 | 43.50  | -13.82 | 200  | 83 QP  | Horizontal |      |
| 4 | 164.83 | 32.40  | 38.32 | -5.92 | 43.50  | -11.10 | 200  | 89 QP  | Horizontal |      |
| 5 | 263.77 | 33.16  | 39.32 | -6.16 | 46.00  | -12.84 | 100  | 72 QP  | Horizontal |      |
| 6 | 274.44 | 32.59  | 38.07 | -5.48 | 46.00  | -13.41 | 100  | 85 QP  | Horizontal |      |



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|   | Freq   | Level  | Read  | Limit  | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|--------|--------|-------|--------|--------|--------|------|--------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 38.73  | 29.55  | 35.90 | -6.35  | 40.00  | -10.45 | 100  | 337 QP | Vertical  |      |
| 2 | 55.22  | 36.81  | 43.33 | -6.52  | 40.00  | -3.19  | 100  | 145 QP | Vertical  |      |
| 3 | 70.74  | 29.33  | 38.05 | -8.72  | 40.00  | -10.67 | 100  | 145 QP | Vertical  |      |
| 4 | 99.84  | 24.60  | 35.90 | -11.30 | 43.50  | -18.90 | 100  | 186 QP | Vertical  |      |
| 5 | 164.83 | 25.35  | 31.27 | -5.92  | 43.50  | -18.15 | 200  | 358 QP | Vertical  |      |
| 6 | 343.31 | 27.57  | 31.53 | -3.96  | 46.00  | -18.43 | 100  | 245 QP | Vertical  |      |

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

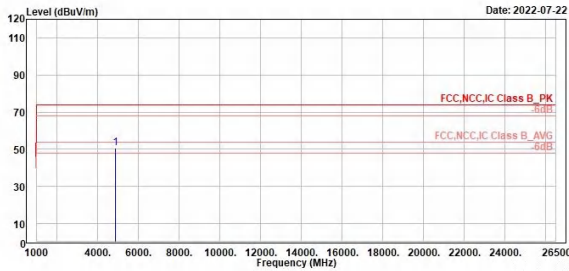
**BLE\_2M**

**CH19 (Horizontal)**

**CH19 (Vertical)**



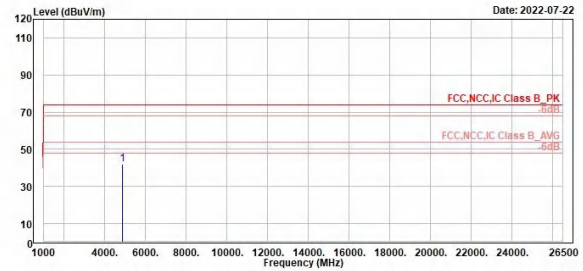
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| Freq      | Level  | Read  | Level | Limit  | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|-----------|--------|-------|-------|--------|--------|------|------|--------|------------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |        |            |      |
| 1 4880.00 | 50.87  | 60.66 | -9.79 | 74.00  | -23.13 | 100  | 318  | Peak   | Horizontal |      |



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| Freq      | Level  | Read  | Level | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|-----------|--------|-------|-------|--------|--------|------|------|--------|-----------|------|
| MHz       | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 4880.00 | 42.09  | 51.88 | -9.79 | 74.00  | -31.91 | 278  | 5    | Peak   | Vertical  |      |

# Mains Conducted Emission for ANT 4, 150kHz ~ 30MHz

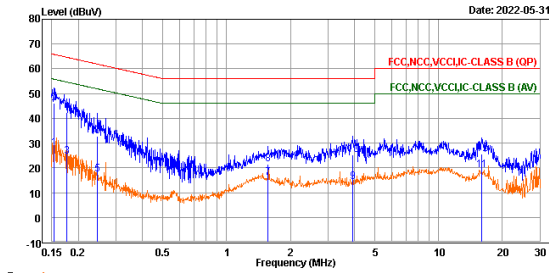
## Worst Band (ECC)

### (Line)

### (Neutral)



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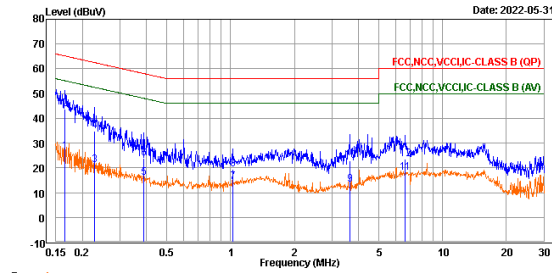


Trace: 1

|    | Freq  | Level | Read         | Limit | Over  |                |                |
|----|-------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz   | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    |       | dBuV  | dB           | dBuV  | dB    |                |                |
| 1  | 0.15  | 27.85 | 18.24        | 9.61  | 55.79 | -27.94 Average | line1          |
| 2  | 0.15  | 46.24 | 36.63        | 9.61  | 65.79 | -19.55 QP      | line1          |
| 3  | 0.18  | 24.42 | 14.81        | 9.61  | 54.68 | -30.26 Average | line1          |
| 4  | 0.18  | 42.26 | 32.65        | 9.61  | 64.68 | -22.42 QP      | line1          |
| 5  | 0.25  | 17.38 | 7.77         | 9.61  | 51.90 | -34.52 Average | line1          |
| 6  | 0.25  | 32.62 | 23.01        | 9.61  | 61.90 | -29.28 QP      | line1          |
| 7  | 1.57  | 15.91 | 6.27         | 9.64  | 46.00 | -30.09 Average | line1          |
| 8  | 1.57  | 21.60 | 11.96        | 9.64  | 56.00 | -34.40 QP      | line1          |
| 9  | 3.93  | 14.27 | 4.60         | 9.67  | 46.00 | -31.73 Average | line1          |
| 10 | 3.93  | 25.11 | 15.44        | 9.67  | 56.00 | -30.89 QP      | line1          |
| 11 | 15.93 | 19.17 | 9.44         | 9.73  | 50.00 | -30.83 Average | line1          |
| 12 | 15.93 | 25.67 | 15.94        | 9.73  | 60.00 | -34.33 QP      | line1          |



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Trace: 1

|    | Freq | Level | Read         | Limit | Over  |                |                |
|----|------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz  | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    |      | dBuV  | dB           | dBuV  | dB    |                |                |
| 1  | 0.17 | 26.71 | 17.12        | 9.59  | 55.17 | -28.46 Average | neutral        |
| 2  | 0.17 | 43.84 | 34.25        | 9.59  | 65.17 | -21.33 QP      | neutral        |
| 3  | 0.23 | 21.00 | 11.41        | 9.59  | 52.52 | -31.52 Average | neutral        |
| 4  | 0.23 | 34.93 | 25.34        | 9.59  | 62.52 | -27.59 QP      | neutral        |
| 5  | 0.39 | 16.03 | 6.43         | 9.60  | 48.05 | -32.02 Average | neutral        |
| 6  | 0.39 | 23.91 | 14.31        | 9.60  | 58.05 | -34.14 QP      | neutral        |
| 7  | 1.02 | 14.40 | 4.80         | 9.60  | 46.00 | -31.60 Average | neutral        |
| 8  | 1.02 | 19.37 | 9.77         | 9.60  | 56.00 | -36.63 QP      | neutral        |
| 9  | 3.64 | 13.26 | 3.60         | 9.66  | 46.00 | -32.74 Average | neutral        |
| 10 | 3.64 | 22.93 | 13.27        | 9.66  | 56.00 | -33.07 QP      | neutral        |
| 11 | 6.66 | 18.15 | 8.44         | 9.71  | 50.00 | -31.85 Average | neutral        |
| 12 | 6.66 | 23.41 | 13.70        | 9.71  | 60.00 | -36.59 QP      | neutral        |

# Test Results of Radiated Spurious Emissions & Mains Conducted

## Emission Test for ANT 4 (UFL, Non-ECC)

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

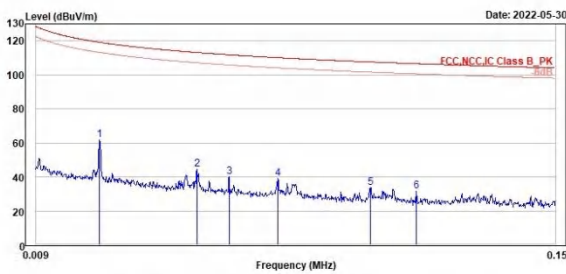
#### BLE\_1M

##### CH19 (Open) 9kHz~150kHz

##### CH19 (Open) 150kHz~30MHz



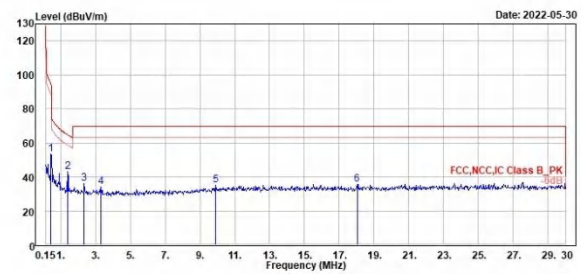
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| Freq | Level  | Read  | Level | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|--------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm     | deg  |      |        |           |      |
| 1    | 0.03   | 62.03 | 42.85 | 19.18  | 119.18 | -57.15 | 100  | 116  | QP     | Open      |      |
| 2    | 0.05   | 44.44 | 25.19 | 19.25  | 113.16 | -68.72 | 100  | 160  | QP     | Open      |      |
| 3    | 0.06   | 40.21 | 21.15 | 19.06  | 111.82 | -71.61 | 100  | 11   | QP     | Open      |      |
| 4    | 0.07   | 38.94 | 20.17 | 18.77  | 110.13 | -71.19 | 100  | 160  | QP     | Open      |      |
| 5    | 0.10   | 33.86 | 15.64 | 18.22  | 107.61 | -73.75 | 100  | 160  | QP     | Open      |      |
| 6    | 0.11   | 31.45 | 13.19 | 18.26  | 106.59 | -75.14 | 100  | 116  | QP     | Open      |      |



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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    | 0.45   | 53.52 | 34.57 | 18.95  | 94.57 | -41.05 | 100  | 11   | QP     | Open      |      |
| 2    | 1.40   | 43.09 | 23.76 | 19.33  | 64.66 | -21.57 | 100  | 34   | QP     | Open      |      |
| 3    | 2.36   | 36.21 | 16.76 | 19.45  | 69.50 | -33.29 | 100  | 52   | QP     | Open      |      |
| 4    | 3.31   | 34.16 | 14.66 | 19.50  | 69.50 | -35.34 | 100  | 38   | QP     | Open      |      |
| 5    | 9.88   | 35.14 | 13.70 | 21.44  | 69.50 | -34.36 | 100  | 18   | QP     | Open      |      |
| 6    | 18.03  | 35.60 | 13.54 | 22.06  | 69.50 | -33.90 | 100  | 338  | QP     | Open      |      |

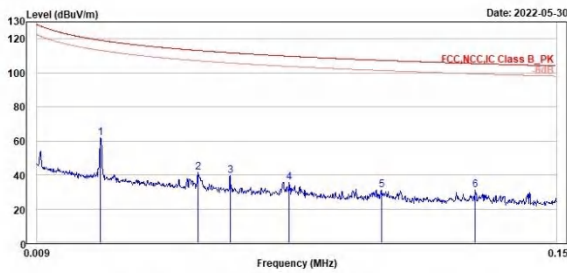
BLE\_1M

CH19 (Close) 9kHz~150kHz

CH19 (Close) 150kHz~30MHz



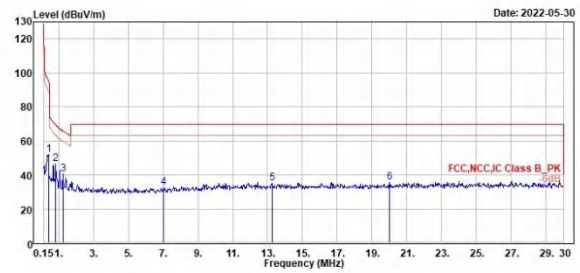
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|   | Freq | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|--------|--------|--------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 | 0.03 | 61.74  | 42.56 | 19.18  | 119.18 | -57.44 | 100  | 176  | QP     | Close     |      |
| 2 | 0.05 | 41.38  | 22.13 | 19.25  | 113.13 | -71.75 | 100  | 50   | QP     | Close     |      |
| 3 | 0.06 | 39.71  | 20.65 | 19.06  | 111.82 | -72.11 | 100  | 180  | QP     | Close     |      |
| 4 | 0.08 | 35.45  | 16.75 | 18.70  | 109.81 | -74.36 | 100  | 152  | QP     | Close     |      |
| 5 | 0.10 | 30.98  | 12.75 | 18.23  | 107.38 | -76.40 | 100  | 150  | QP     | Close     |      |
| 6 | 0.13 | 31.13  | 12.81 | 18.32  | 105.45 | -74.32 | 100  | 149  | QP     | Close     |      |



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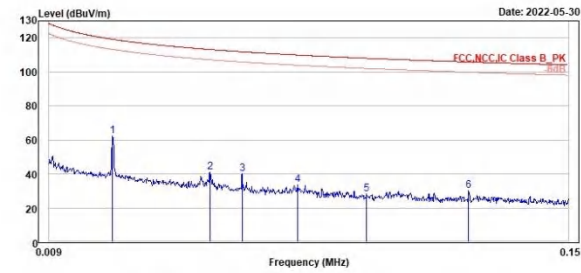
|   | Freq  | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|--------|--------|--------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 | 0.42  | 51.69  | 32.74 | 18.95  | 95.17  | -43.48 | 100  | 128  | QP     | Close     |      |
| 2 | 0.84  | 46.31  | 27.15 | 19.16  | 69.15  | -22.84 | 100  | 128  | QP     | Close     |      |
| 3 | 1.25  | 40.69  | 21.38 | 19.31  | 65.64  | -24.95 | 100  | 128  | QP     | Close     |      |
| 4 | 7.05  | 32.79  | 12.58 | 20.21  | 69.50  | -36.71 | 100  | 137  | QP     | Close     |      |
| 5 | 13.25 | 35.25  | 13.52 | 21.73  | 69.50  | -34.25 | 100  | 104  | QP     | Close     |      |
| 6 | 20.00 | 35.62  | 13.42 | 22.20  | 69.50  | -33.88 | 100  | 33   | QP     | Close     |      |

BLE\_2M

CH1 (Open) 9kHz~150kHz



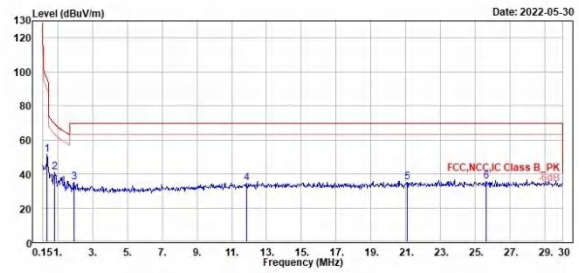
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| Freq | Level  | Read  | Factor | Limit  | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|--------|--------|--------|--------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm     | deg  |        |           |      |
| 1    | 0.83   | 62.04 | 42.06  | 19.18  | 119.18 | -57.14 | 100  | 67 QP  | Open      |      |
| 2    | 0.05   | 41.17 | 21.92  | 19.25  | 113.16 | -71.99 | 100  | 178 QP | Open      |      |
| 3    | 0.06   | 39.93 | 20.87  | 19.06  | 111.82 | -71.89 | 100  | 64 QP  | Open      |      |
| 4    | 0.08   | 33.83 | 15.10  | 18.73  | 109.92 | -76.09 | 100  | 194 QP | Open      |      |
| 5    | 0.10   | 27.99 | 9.67   | 18.32  | 108.01 | -80.02 | 100  | 11 QP  | Open      |      |
| 6    | 0.12   | 29.91 | 11.61  | 18.30  | 105.80 | -75.89 | 100  | 314 QP | Open      |      |



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| Freq | Level  | Read  | Factor | Limit  | Over  | APos   | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|--------|--------|-------|--------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m   | dBuV/m | dB    | cm     | deg  |        |           |      |
| 1    | 0.39   | 51.18 | 32.23  | 18.95  | 95.81 | -44.63 | 100  | 159 QP | Open      |      |
| 2    | 0.84   | 41.10 | 21.94  | 19.16  | 69.15 | -28.05 | 100  | 159 QP | Open      |      |
| 3    | 1.94   | 35.00 | 15.60  | 19.40  | 69.50 | -34.50 | 100  | 165 QP | Open      |      |
| 4    | 11.85  | 34.42 | 12.79  | 21.63  | 69.50 | -35.08 | 100  | 188 QP | Open      |      |
| 5    | 21.07  | 35.00 | 12.75  | 22.25  | 69.50 | -34.50 | 100  | 35 QP  | Open      |      |
| 6    | 25.64  | 35.48 | 13.03  | 22.45  | 69.50 | -34.02 | 100  | 14 QP  | Open      |      |

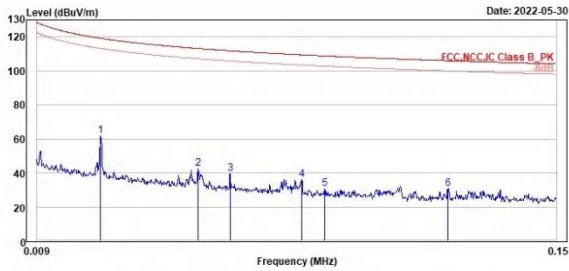
BLE\_2M

CH1 (Close) 9kHz~150kHz

CH1 (Close) 150kHz~30MHz



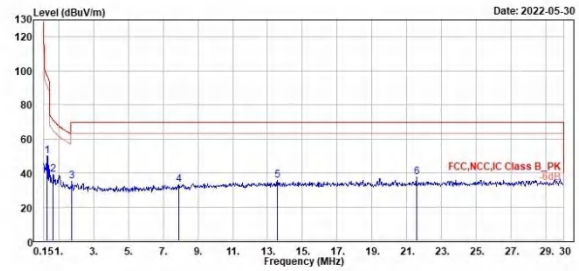
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|   | Freq | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|--------|--------|--------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 | 0.03 | 61.69  | 42.51 | 19.18  | 119.18 | -57.49 | 100  | 161  | QP     | Close     |      |
| 2 | 0.05 | 42.31  | 23.06 | 19.25  | 113.13 | -70.82 | 100  | 112  | QP     | Close     |      |
| 3 | 0.06 | 39.75  | 20.69 | 19.06  | 111.82 | -72.07 | 100  | 225  | QP     | Close     |      |
| 4 | 0.08 | 36.26  | 17.63 | 18.63  | 109.44 | -73.18 | 100  | 167  | QP     | Close     |      |
| 5 | 0.09 | 30.64  | 12.15 | 18.49  | 108.79 | -78.15 | 100  | 158  | QP     | Close     |      |
| 6 | 0.12 | 30.68  | 12.39 | 18.29  | 105.98 | -75.30 | 100  | 160  | QP     | Close     |      |



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|   | Freq  | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|---|-------|--------|-------|--------|--------|--------|------|------|--------|-----------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 | 0.33  | 49.77  | 30.83 | 18.94  | 97.26  | -47.49 | 100  | 123  | QP     | Close     |      |
| 2 | 0.69  | 39.21  | 20.15 | 19.06  | 70.86  | -31.65 | 100  | 193  | QP     | Close     |      |
| 3 | 1.76  | 35.07  | 15.69 | 19.38  | 69.50  | -34.43 | 100  | 185  | QP     | Close     |      |
| 4 | 7.88  | 33.07  | 12.52 | 20.55  | 69.50  | -36.43 | 100  | 94   | QP     | Close     |      |
| 5 | 13.58 | 35.75  | 14.00 | 21.75  | 69.50  | -33.75 | 100  | 248  | QP     | Close     |      |
| 6 | 21.55 | 37.46  | 15.19 | 22.27  | 69.50  | -32.04 | 100  | 200  | QP     | Close     |      |

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

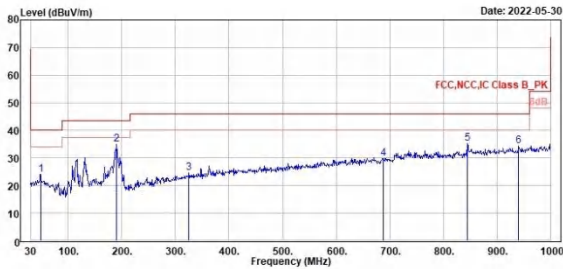
## BLE\_1M

### CH19 (Horizontal)

### CH19 (Vertical)



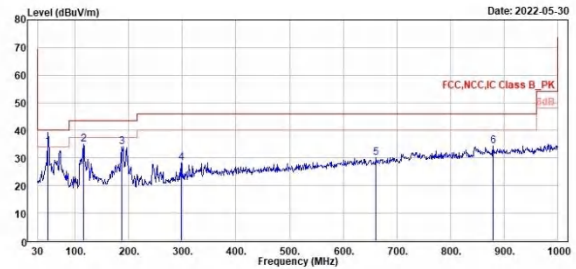
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|   | Freq   | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase  | Note |
|---|--------|--------|-------|-------|--------|--------|------|--------|------------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |            |      |
| 1 | 48.43  | 24.11  | 30.20 | -6.09 | 40.00  | -15.89 | 100  | 0 QP   | Horizontal |      |
| 2 | 190.05 | 34.95  | 43.36 | -8.41 | 43.50  | -8.55  | 200  | 302 QP | Horizontal |      |
| 3 | 324.88 | 24.68  | 28.84 | -4.16 | 46.00  | -21.32 | 100  | 248 QP | Horizontal |      |
| 4 | 687.66 | 29.86  | 28.38 | 1.48  | 46.00  | -16.14 | 200  | 322 QP | Horizontal |      |
| 5 | 844.80 | 35.18  | 31.45 | 3.73  | 46.00  | -10.82 | 200  | 145 QP | Horizontal |      |
| 6 | 940.83 | 34.23  | 28.98 | 5.25  | 46.00  | -11.77 | 200  | 269 QP | Horizontal |      |



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|   | Freq   | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 49.40  | 34.21  | 40.30 | -6.09 | 40.00  | -5.79  | 100  | 124 QP | Vertical  |      |
| 2 | 115.36 | 34.97  | 44.02 | -9.05 | 43.50  | -8.53  | 200  | 112 QP | Vertical  |      |
| 3 | 187.14 | 34.20  | 42.34 | -8.14 | 43.50  | -9.30  | 200  | 294 QP | Vertical  |      |
| 4 | 297.72 | 28.27  | 33.05 | -4.78 | 46.00  | -17.73 | 200  | 42 QP  | Vertical  |      |
| 5 | 661.47 | 30.20  | 29.22 | 0.98  | 46.00  | -15.80 | 200  | 31 QP  | Vertical  |      |
| 6 | 879.72 | 34.23  | 29.99 | 4.24  | 46.00  | -11.77 | 100  | 345 QP | Vertical  |      |

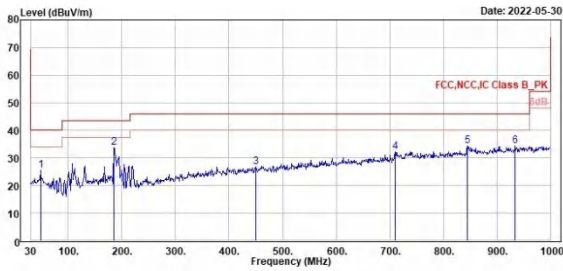
BLE\_2M

CH1 (Horizontal)

CH1 (Vertical)



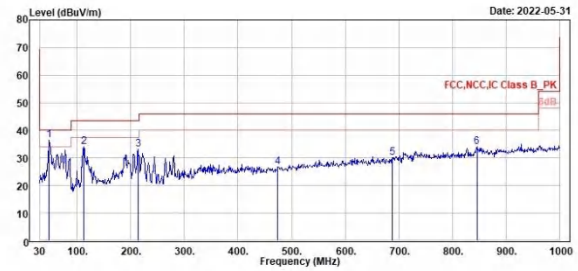
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|   | Freq   | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase  | Note |
|---|--------|--------|-------|-------|--------|--------|------|--------|------------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |            |      |
| 1 | 48.43  | 25.60  | 31.69 | -6.09 | 40.00  | -14.40 | 200  | 115 QP | Horizontal |      |
| 2 | 185.20 | 33.89  | 41.94 | -8.05 | 43.50  | -9.61  | 200  | 251 QP | Horizontal |      |
| 3 | 450.01 | 26.73  | 28.94 | -2.21 | 46.00  | -19.27 | 200  | 82 QP  | Horizontal |      |
| 4 | 709.97 | 32.25  | 30.53 | 1.72  | 46.00  | -13.75 | 200  | 233 QP | Horizontal |      |
| 5 | 844.80 | 34.51  | 30.78 | 3.73  | 46.00  | -11.49 | 200  | 84 QP  | Horizontal |      |
| 6 | 934.04 | 34.36  | 29.12 | 5.24  | 46.00  | -11.64 | 100  | 274 QP | Horizontal |      |



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|   | Freq   | Level  | Read  | Limit | Over   | APos   | TPos | Remark | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|--------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg    |           |      |
| 1 | 47.46  | 36.36  | 42.31 | -5.95 | 40.00  | -3.64  | 200  | 7 QP   | Vertical  |      |
| 2 | 112.45 | 34.18  | 43.44 | -9.26 | 43.50  | -9.32  | 200  | 199 QP | Vertical  |      |
| 3 | 213.33 | 33.20  | 41.36 | -8.16 | 43.50  | -10.30 | 100  | 198 QP | Vertical  |      |
| 4 | 474.26 | 26.71  | 28.84 | -2.13 | 46.00  | -19.29 | 100  | 114 QP | Vertical  |      |
| 5 | 687.66 | 30.06  | 28.58 | 1.48  | 46.00  | -15.94 | 100  | 49 QP  | Vertical  |      |
| 6 | 845.77 | 34.00  | 30.27 | 3.73  | 46.00  | -12.00 | 200  | 360 QP | Vertical  |      |

# Test Results of Radiated Spurious Emissions for ANT 4 (UFL, Non-ECC)

## 2<sup>nd</sup> Source

### Band Edges, 2.31GHz ~ 2.9GHz

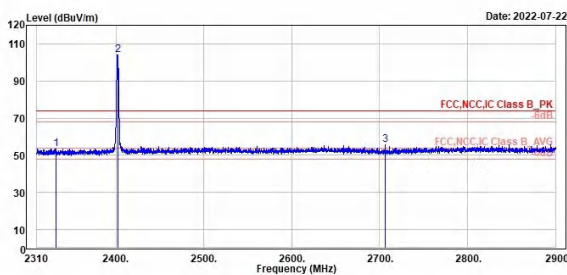
#### BLE\_1M

##### CH0 (Horizontal) Peak

##### CH0 (Vertical) Peak



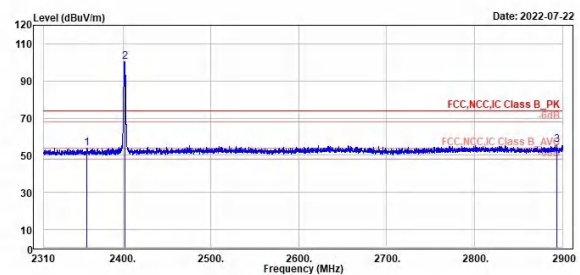
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| Peak | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|------|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|      | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1    | 2332.07 | 53.60  | 16.29 | 37.31 | 74.00  | -20.40 | 312  | 0    | Peak | Horizontal |           |      |
| 2 *  | 2402.00 | 104.12 | 66.49 | 37.63 | 74.00  | 30.12  | 312  | 0    | Peak | Horizontal |           |      |
| 3    | 2706.01 | 55.56  | 17.65 | 37.91 | 74.00  | -18.44 | 312  | 0    | 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     | dB   | cm   | deg  |          |           |      |
| 1    | 2359.09 | 54.01  | 16.59 | 37.42 | 74.00  | -19.99 | 315  | 90   | Peak | Vertical |           |      |
| 2 *  | 2402.00 | 100.38 | 62.75 | 37.63 | 74.00  | 26.38  | 315  | 90   | Peak | Vertical |           |      |
| 3    | 2893.51 | 55.77  | 17.39 | 38.38 | 74.00  | -18.23 | 315  | 90   | Peak | Vertical |           |      |

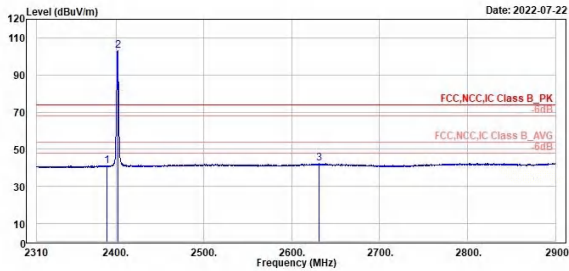
BLE\_1M

CH0 (Horizontal) Average

CH0 (Vertical) Average



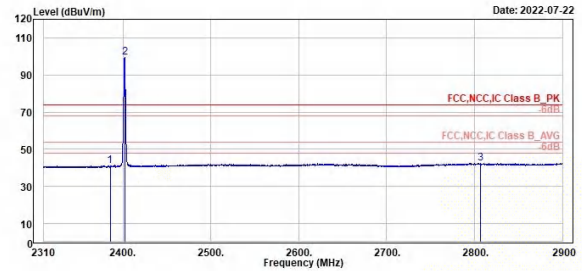
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2390.00 | 41.09  | 3.51  | 37.58  | 54.00 | -12.91 | 312  | 0    | Average | Horizontal |      |
| 2 *  | 2402.00 | 103.11 | 65.46 | 37.63  | 54.00 | 49.11  | 312  | 0    | Average | Horizontal |      |
| 3    | 2630.72 | 42.37  | 4.37  | 38.00  | 54.00 | -11.63 | 312  | 0    | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2385.52 | 41.12 | 3.57  | 37.55  | 54.00 | -12.88 | 315  | 90   | Average | Vertical  |      |
| 2 *  | 2402.00 | 99.37 | 61.74 | 37.63  | 54.00 | 45.37  | 315  | 90   | Average | Vertical  |      |
| 3    | 2806.43 | 42.41 | 4.21  | 38.20  | 54.00 | -11.59 | 315  | 90   | Average | Vertical  |      |

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

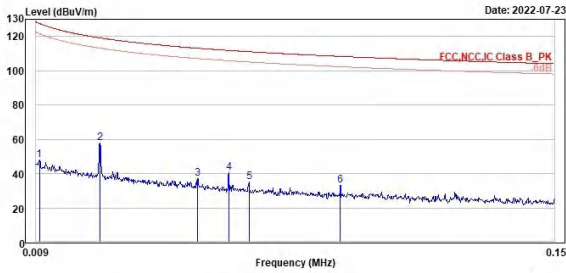
## BLE\_1M

### CH0 (Open) 9kHz~150kHz

### CH0 (Open) 150kHz~30MHz



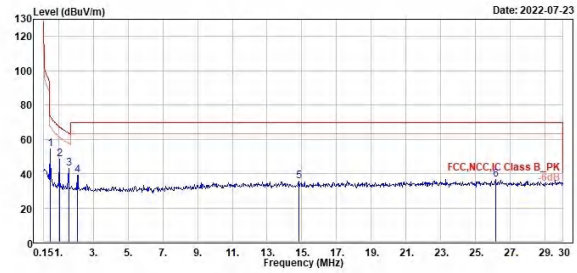
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|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |        |           |      |
| 1 | 0.61 | 47.99  | 38.28 | 17.71 | 127.68 | -79.61 | 100  | 112  | QP   | Open   |           |      |
| 2 | 0.83 | 57.92  | 38.73 | 19.19 | 119.13 | -61.21 | 100  | 111  | QP   | Open   |           |      |
| 3 | 0.05 | 37.14  | 17.90 | 19.24 | 113.11 | -75.97 | 100  | 341  | QP   | Open   |           |      |
| 4 | 0.06 | 40.63  | 21.57 | 19.06 | 111.82 | -71.19 | 100  | 159  | QP   | Open   |           |      |
| 5 | 0.07 | 35.00  | 16.06 | 18.94 | 111.08 | -76.08 | 100  | 25   | QP   | Open   |           |      |
| 6 | 0.09 | 33.23  | 14.84 | 18.39 | 108.34 | -75.11 | 100  | 156  | QP   | Open   |           |      |



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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 | 0.51  | 54.37  | 35.42 | 18.95 | 73.48  | -19.11 | 100  | 142  | QP   | Open   |           |      |
| 2 | 1.05  | 48.43  | 29.16 | 19.27 | 67.22  | -18.79 | 100  | 171  | QP   | Open   |           |      |
| 3 | 1.58  | 43.13  | 23.78 | 19.35 | 63.62  | -28.49 | 100  | 172  | QP   | Open   |           |      |
| 4 | 2.09  | 39.06  | 19.64 | 19.42 | 69.50  | -38.44 | 100  | 136  | QP   | Open   |           |      |
| 5 | 14.84 | 35.63  | 13.79 | 21.84 | 69.50  | -33.87 | 100  | 313  | QP   | Open   |           |      |
| 6 | 26.15 | 36.63  | 14.16 | 22.47 | 69.50  | -32.87 | 100  | 236  | QP   | Open   |           |      |

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

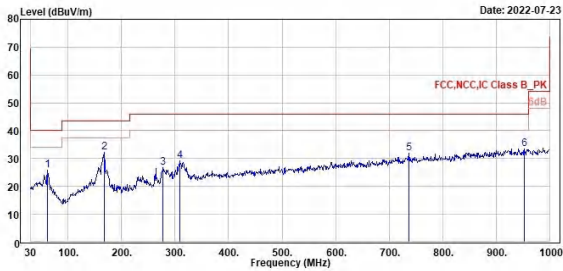
## BLE\_1M

### CH0 (Horizontal)

### CH0 (Vertical)



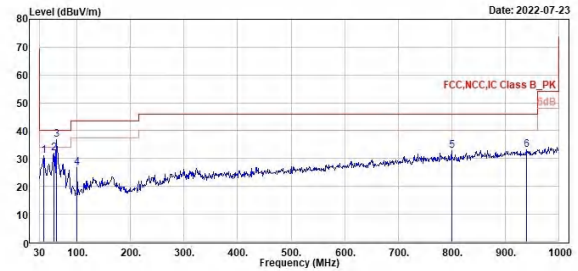
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|   | Freq   | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|---|--------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|   | MHz    | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |            |           |      |
| 1 | 62.81  | 25.97  | 33.43 | -7.46 | 40.00  | -14.03 | 200  | 87   | QP   | Horizontal |           |      |
| 2 | 167.74 | 32.27  | 38.26 | -5.99 | 43.50  | -11.23 | 200  | 276  | QP   | Horizontal |           |      |
| 3 | 277.35 | 26.87  | 32.26 | -5.39 | 46.00  | -19.13 | 100  | 255  | QP   | Horizontal |           |      |
| 4 | 309.36 | 29.08  | 33.76 | -4.68 | 46.00  | -16.92 | 100  | 78   | QP   | Horizontal |           |      |
| 5 | 737.13 | 31.86  | 29.62 | 2.24  | 46.00  | -14.14 | 200  | 334  | QP   | Horizontal |           |      |
| 6 | 952.47 | 33.61  | 28.06 | 5.55  | 46.00  | -12.39 | 100  | 248  | QP   | 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     | dB   | cm   | deg  |          |           |      |
| 1 | 37.76  | 30.98  | 37.55 | -6.57  | 40.00  | -9.02  | 100  | 12   | QP   | Vertical |           |      |
| 2 | 57.16  | 32.01  | 38.72 | -6.71  | 40.00  | -7.99  | 200  | 19   | QP   | Vertical |           |      |
| 3 | 62.81  | 36.83  | 44.29 | -7.46  | 40.00  | -3.17  | 200  | 19   | QP   | Vertical |           |      |
| 4 | 99.84  | 26.91  | 38.21 | -11.30 | 43.50  | -16.59 | 100  | 104  | QP   | Vertical |           |      |
| 5 | 800.18 | 32.96  | 29.78 | 3.18   | 46.00  | -13.04 | 200  | 274  | QP   | Vertical |           |      |
| 6 | 939.86 | 33.11  | 27.86 | 5.25   | 46.00  | -12.89 | 400  | 113  | QP   | Vertical |           |      |

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

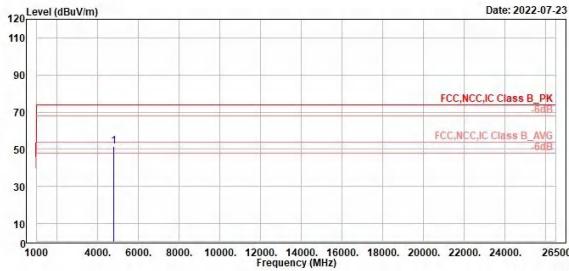
**BLE\_1M**

**CH0 (Horizontal)**

**CH0 (Vertical)**



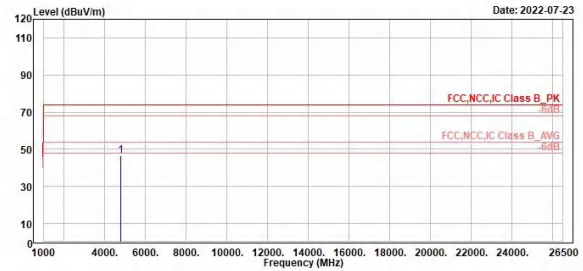
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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark   | Pol/Phase  | Note |
|------|---------|-------|-------|--------|-------|--------|------|----------|------------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |          |            |      |
| 1    | 4884.00 | 51.55 | 61.42 | -9.87  | 74.00 | -22.45 | 300  | 273 Peak | Horizontal |      |



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| Freq | Level   | Read  | Level | Limit  | Over  | APos   | TPos | Remark  | Pol/Phase | Note |
|------|---------|-------|-------|--------|-------|--------|------|---------|-----------|------|
| MHz  | dBuV/m  | dBuV  | dB/m  | dBuV/m | dB    | cm     | deg  |         |           |      |
| 1    | 4884.00 | 46.72 | 56.59 | -9.87  | 74.00 | -27.28 | 400  | 30 Peak | Vertical  |      |

# Mains Conducted Emission for ANT 4, 150kHz ~ 30MHz

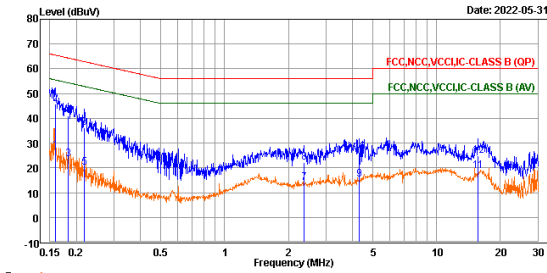
## Worst Band (Non-ECC)

### (Line)

### (Neutral)



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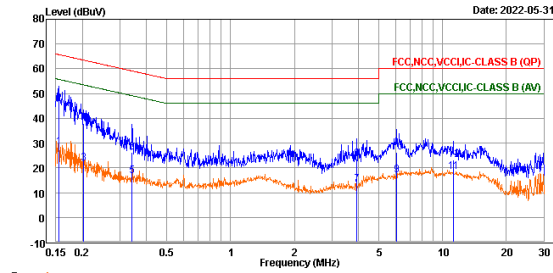


Trace: 1

|    | Freq  | Level | Read         | Limit | Over  |                |                |
|----|-------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz   | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    |       | dBuV  | dB           | dBuV  | dB    |                |                |
| 1  | 0.16  | 26.84 | 17.23        | 9.61  | 55.50 | -28.66 Average | line1          |
| 2  | 0.16  | 45.69 | 36.08        | 9.61  | 65.50 | -19.81 QP      | line1          |
| 3  | 0.18  | 23.57 | 13.96        | 9.61  | 54.39 | -30.82 Average | line1          |
| 4  | 0.18  | 41.02 | 31.41        | 9.61  | 64.39 | -23.37 QP      | line1          |
| 5  | 0.22  | 20.11 | 10.50        | 9.61  | 52.90 | -32.79 Average | line1          |
| 6  | 0.22  | 36.25 | 26.64        | 9.61  | 62.90 | -26.65 QP      | line1          |
| 7  | 2.36  | 13.88 | 4.23         | 9.65  | 46.00 | -32.12 Average | line1          |
| 8  | 2.36  | 22.07 | 12.42        | 9.65  | 56.00 | -33.93 QP      | line1          |
| 9  | 4.32  | 15.34 | 5.66         | 9.68  | 46.00 | -30.66 Average | line1          |
| 10 | 4.32  | 26.21 | 16.53        | 9.68  | 56.00 | -29.79 QP      | line1          |
| 11 | 15.62 | 18.65 | 8.92         | 9.73  | 50.00 | -31.35 Average | line1          |
| 12 | 15.62 | 24.91 | 15.18        | 9.73  | 60.00 | -35.09 QP      | line1          |



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Trace: 1

|    | Freq  | Level | Read         | Limit | Over  |                |                |
|----|-------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz   | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    |       | dBuV  | dB           | dBuV  | dB    |                |                |
| 1  | 0.16  | 28.22 | 18.63        | 9.59  | 55.71 | -27.49 Average | neutral        |
| 2  | 0.16  | 45.92 | 36.33        | 9.59  | 65.71 | -19.79 QP      | neutral        |
| 3  | 0.20  | 21.99 | 12.40        | 9.59  | 53.47 | -31.48 Average | neutral        |
| 4  | 0.20  | 37.82 | 28.23        | 9.59  | 63.47 | -25.65 QP      | neutral        |
| 5  | 0.34  | 16.55 | 6.96         | 9.59  | 49.13 | -32.58 Average | neutral        |
| 6  | 0.34  | 26.36 | 16.77        | 9.59  | 59.13 | -32.77 QP      | neutral        |
| 7  | 3.95  | 13.23 | 3.57         | 9.66  | 46.00 | -32.77 Average | neutral        |
| 8  | 3.95  | 23.55 | 13.69        | 9.66  | 56.00 | -32.45 QP      | neutral        |
| 9  | 6.09  | 17.10 | 7.41         | 9.69  | 50.00 | -32.90 Average | neutral        |
| 10 | 6.09  | 26.28 | 16.59        | 9.69  | 60.00 | -33.72 QP      | neutral        |
| 11 | 11.24 | 18.25 | 8.50         | 9.75  | 50.00 | -31.75 Average | neutral        |
| 12 | 11.24 | 23.24 | 13.49        | 9.75  | 60.00 | -36.76 QP      | neutral        |

# Test Results of Radiated Spurious Emissions & Mains Conducted

## Emission Test for ANT 5 (UFL, ECC)

### Band Edges, 2.31GHz ~ 2.9GHz

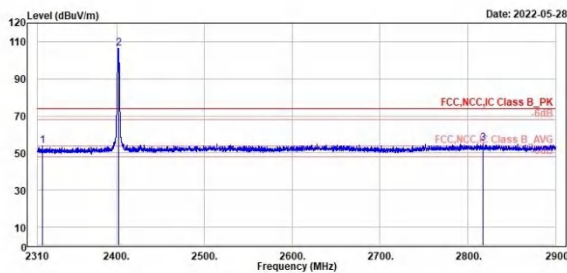
#### BLE\_1M

##### CH0 (Horizontal) Peak

##### CH0 (Vertical) Peak



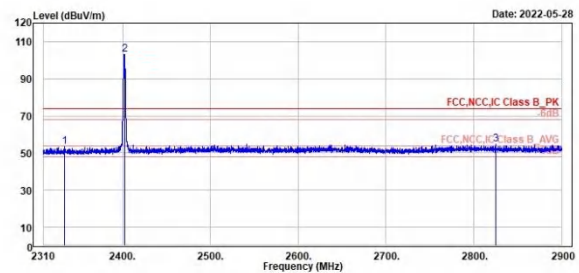
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|     | Freq    | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark     | Pol/Phase | Note |
|-----|---------|--------|-------|-------|--------|--------|------|------|------|------------|-----------|------|
|     | MHz     | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg  |      |            |           |      |
| 1   | 2315.31 | 53.62  | 16.36 | 37.26 | 74.00  | -20.38 | 277  | 70   | Peak | Horizontal |           |      |
| 2 * | 2402.00 | 106.20 | 68.57 | 37.63 | 74.00  | 32.20  | 277  | 70   | Peak | Horizontal |           |      |
| 3   | 2817.05 | 55.17  | 16.98 | 38.19 | 74.00  | -18.83 | 277  | 70   | 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   | 2333.60 | 53.29  | 15.97 | 37.32 | 74.00  | -20.71 | 314  | 166  | Peak | Vertical |           |      |
| 2 * | 2402.00 | 103.01 | 65.38 | 37.63 | 74.00  | 29.01  | 314  | 166  | Peak | Vertical |           |      |
| 3   | 2825.19 | 54.76  | 16.58 | 38.18 | 74.00  | -19.24 | 314  | 166  | Peak | Vertical |           |      |

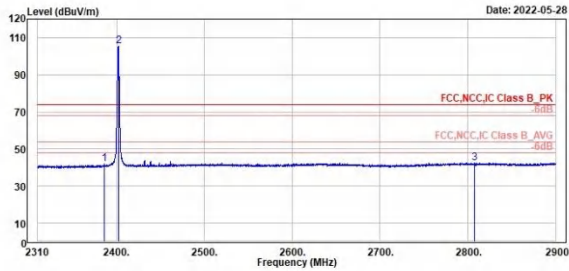
BLE\_1M

CH0 (Horizontal) Average

CH0 (Vertical) Average



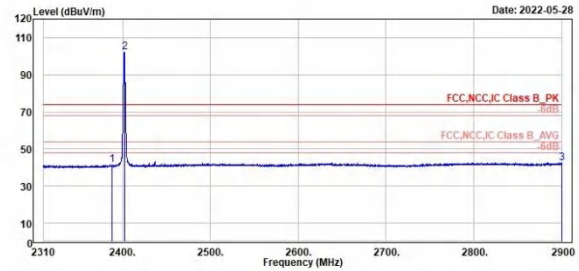
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 2386.23 | 41.88  | 4.32  | 37.56  | 54.00 | -12.12 | 277  | 70   | Average | Horizontal |      |
| 2 *  | 2482.00 | 105.27 | 67.64 | 37.63  | 54.00 | 51.27  | 277  | 70   | Average | Horizontal |      |
| 3    | 2887.84 | 42.52  | 4.33  | 38.19  | 54.00 | -11.48 | 277  | 70   | Average | 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    | 2387.76 | 41.43  | 3.86  | 37.57  | 54.00 | -12.57 | 314  | 166  | Average | Vertical  |      |
| 2 *  | 2482.00 | 102.00 | 64.45 | 37.63  | 54.00 | 48.00  | 314  | 166  | Average | Vertical  |      |
| 3    | 2899.88 | 42.54  | 4.12  | 38.42  | 54.00 | -11.46 | 314  | 166  | Average | Vertical  |      |

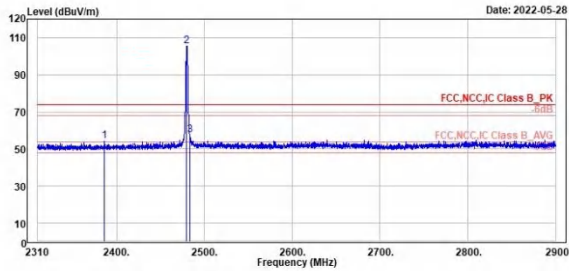
**BLE\_1M**

**CH39 (Horizontal) Peak**

**CH39 (Vertical) Peak**



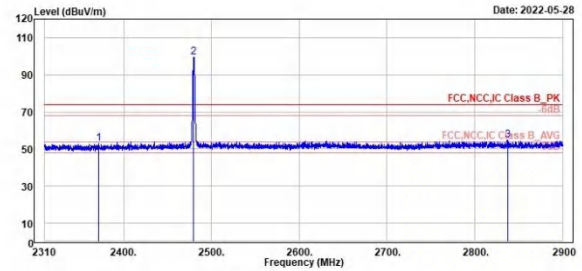
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2396.46 | 54.18  | 16.61 | 37.57  | 74.00 | -19.82 | 233  | 72   | Peak   | Horizontal |      |
| 2 *  | 2480.00 | 105.22 | 67.43 | 37.79  | 74.00 | 31.22  | 233  | 72   | Peak   | Horizontal |      |
| 3    | 2483.58 | 57.62  | 19.82 | 37.80  | 74.00 | -16.38 | 233  | 72   | 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    | 2371.40 | 53.11 | 15.62 | 37.49  | 74.00 | -20.89 | 324  | 185  | Peak   | Vertical  |      |
| 2 *  | 2480.00 | 99.68 | 61.89 | 37.79  | 74.00 | 25.68  | 324  | 185  | Peak   | Vertical  |      |
| 3    | 2837.11 | 54.80 | 16.62 | 38.18  | 74.00 | -19.20 | 324  | 185  | Peak   | Vertical  |      |

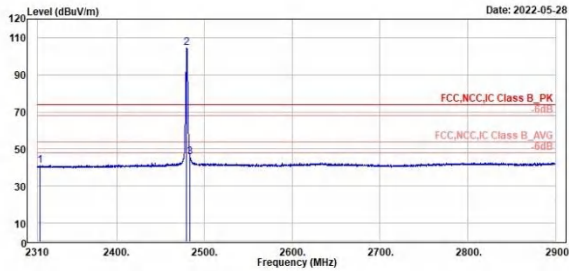
BLE\_1M

CH39 (Horizontal) Average

CH39 (Vertical) Average



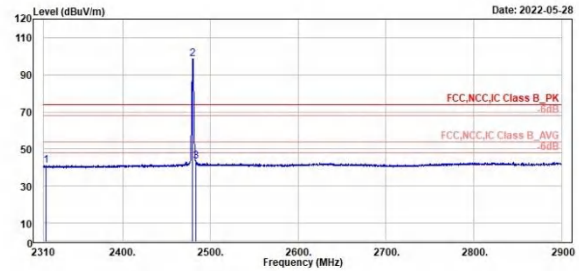
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2312.60 | 41.22  | 3.96  | 37.26  | 54.00 | -12.78 | 233  | 72   | Average | Horizontal |      |
| 2 *  | 2480.00 | 104.26 | 66.47 | 37.79  | 54.00 | 50.26  | 233  | 72   | Average | Horizontal |      |
| 3    | 2483.46 | 45.84  | 8.04  | 37.80  | 54.00 | -8.16  | 233  | 72   | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2312.60 | 41.24 | 3.96  | 37.26  | 54.00 | -12.76 | 324  | 185  | Average | Vertical  |      |
| 2 *  | 2480.00 | 98.76 | 60.97 | 37.79  | 54.00 | 44.76  | 324  | 185  | Average | Vertical  |      |
| 3    | 2483.58 | 43.17 | 5.37  | 37.80  | 54.00 | -10.83 | 324  | 185  | Average | Vertical  |      |

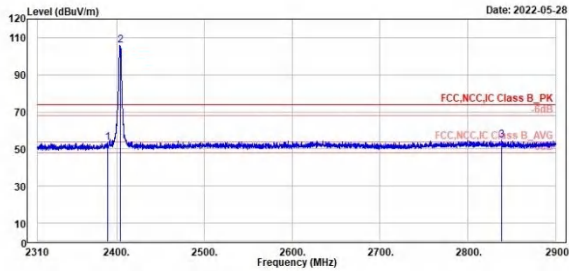
BLE\_2M

CH1 (Horizontal) Peak

CH1 (Vertical) Peak



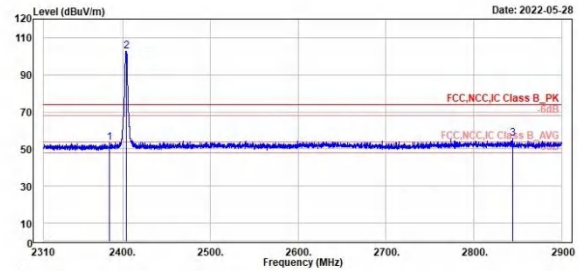
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2389.65 | 53.28  | 15.70 | 37.58  | 74.00 | -20.72 | 277  | 67   | Peak   | Horizontal |      |
| 2 *  | 2404.00 | 105.75 | 68.11 | 37.64  | 74.00 | 31.75  | 277  | 67   | Peak   | Horizontal |      |
| 3    | 2838.29 | 54.94  | 16.77 | 38.17  | 74.00 | -19.06 | 277  | 67   | 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    | 2384.93 | 53.50  | 15.95 | 37.55  | 74.00 | -20.50 | 349  | 177  | Peak   | Vertical  |      |
| 2 *  | 2404.00 | 102.70 | 65.06 | 37.64  | 74.00 | 28.70  | 349  | 177  | Peak   | Vertical  |      |
| 3    | 2843.95 | 55.58  | 17.41 | 38.17  | 74.00 | -18.42 | 349  | 177  | Peak   | Vertical  |      |

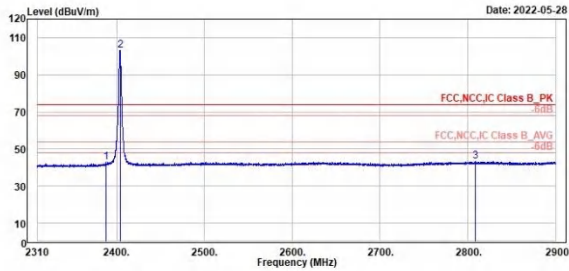
BLE\_2M

CH1 (Horizontal) Average

CH1 (Vertical) Average



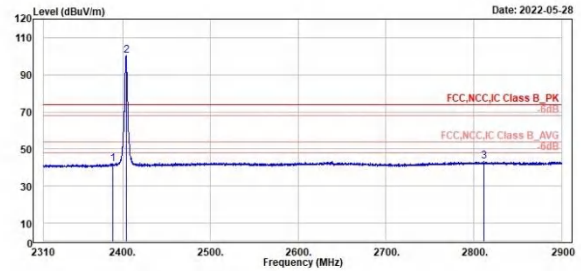
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |         |            |      |
| 1    | 2387.64 | 42.79  | 5.22  | 37.57  | 54.00 | -11.21 | 277  | 67   | Average | Horizontal |      |
| 2 *  | 2404.00 | 103.33 | 65.69 | 37.64  | 54.00 | 49.33  | 277  | 67   | Average | Horizontal |      |
| 3    | 2888.79 | 43.20  | 5.01  | 38.19  | 54.00 | -10.80 | 277  | 67   | Average | 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    | 2389.30 | 41.84  | 4.26  | 37.58  | 54.00 | -12.16 | 349  | 177  | Average | Vertical  |      |
| 2 *  | 2404.00 | 100.23 | 62.59 | 37.64  | 54.00 | 46.23  | 349  | 177  | Average | Vertical  |      |
| 3    | 2811.74 | 43.24  | 5.04  | 38.20  | 54.00 | -10.76 | 349  | 177  | Average | Vertical  |      |

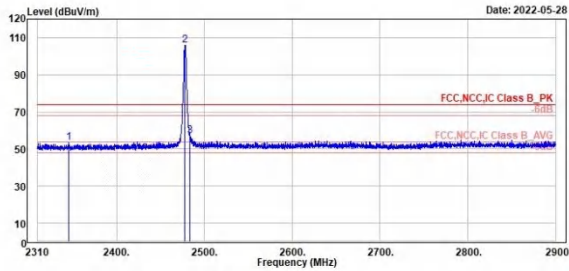
**BLE\_2M**

**CH38 (Horizontal) Peak**

**CH38 (Vertical) Peak**



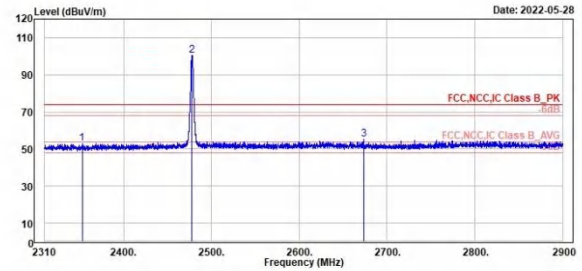
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|--------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | cm     | deg  |      |        |            |      |
| 1    | 2345.05 | 53.22  | 15.06 | 37.36  | 74.00 | -20.78 | 235  | 88   | Peak   | Horizontal |      |
| 2 *  | 2478.00 | 105.75 | 67.97 | 37.78  | 74.00 | 31.75  | 235  | 88   | Peak   | Horizontal |      |
| 3    | 2483.81 | 57.21  | 19.41 | 37.80  | 74.00 | -16.79 | 235  | 88   | 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    | 2352.72 | 52.80  | 15.41 | 37.39  | 74.00 | -21.20 | 330  | 163  | Peak   | Vertical  |      |
| 2 *  | 2478.00 | 100.51 | 62.73 | 37.78  | 74.00 | 26.51  | 330  | 163  | Peak   | Vertical  |      |
| 3    | 2673.79 | 55.14  | 17.18 | 37.96  | 74.00 | -18.86 | 330  | 163  | Peak   | Vertical  |      |

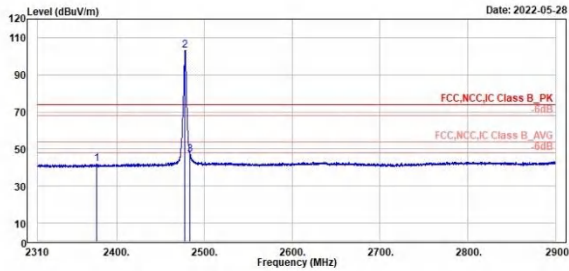
BLE\_2M

CH38 (Horizontal) Average

CH38 (Vertical) Average



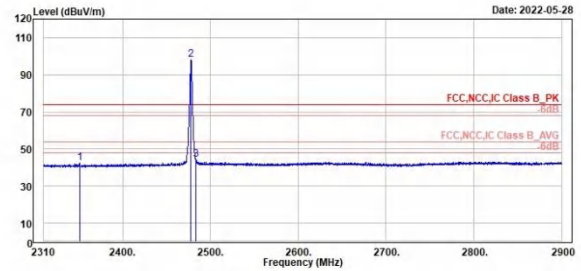
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| Freq | Level   | Read   | Level | Factor | Limit | Over   | APos | TPos | Remark  | Pol/Phase  | Note |
|------|---------|--------|-------|--------|-------|--------|------|------|---------|------------|------|
| MHz  | dBuV/m  | dBuV   | dB/m  | dBuV/m | dB    | dB     | cm   | deg  |         |            |      |
| 1    | 2376.91 | 41.97  | 4.46  | 37.51  | 54.00 | -12.03 | 235  | 88   | Average | Horizontal |      |
| 2 *  | 2478.00 | 103.31 | 65.53 | 37.78  | 54.00 | 49.31  | 235  | 88   | Average | Horizontal |      |
| 3    | 2483.81 | 47.16  | 9.36  | 37.80  | 54.00 | -6.84  | 235  | 88   | Average | 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    | dB     | cm   | deg  |         |           |      |
| 1    | 2358.83 | 42.25 | 4.88  | 37.37  | 54.00 | -11.75 | 330  | 163  | Average | Vertical  |      |
| 2 *  | 2478.00 | 98.06 | 60.28 | 37.78  | 54.00 | 44.06  | 330  | 163  | Average | Vertical  |      |
| 3    | 2483.58 | 44.20 | 6.40  | 37.80  | 54.00 | -9.80  | 330  | 163  | Average | Vertical  |      |

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

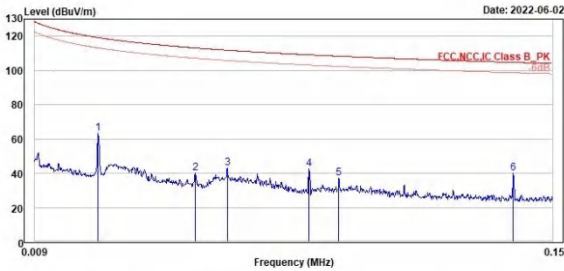
## BLE\_1M

### CH19 (Open) 9kHz~150kHz

### CH19 (Open) 150kHz~30MHz



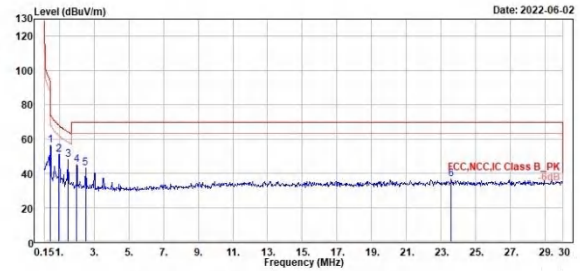
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| Freq | Level  | Read  | Level | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|------|--------|-------|-------|--------|--------|--------|------|------|--------|-----------|------|
| MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm     | deg  |      |        |           |      |
| 1    | 0.03   | 63.17 | 43.99 | 19.18  | 119.18 | -56.01 | 100  | 5    | QP     | Open      |      |
| 2    | 0.05   | 39.86 | 28.61 | 19.25  | 113.16 | -73.30 | 100  | 168  | QP     | Open      |      |
| 3    | 0.06   | 42.88 | 23.82 | 19.06  | 111.82 | -68.94 | 100  | 318  | QP     | Open      |      |
| 4    | 0.08   | 42.33 | 23.76 | 18.57  | 109.14 | -66.81 | 100  | 171  | QP     | Open      |      |
| 5    | 0.09   | 37.08 | 18.69 | 18.39  | 108.34 | -71.26 | 100  | 174  | QP     | Open      |      |
| 6    | 0.14   | 40.17 | 21.81 | 18.36  | 104.72 | -64.55 | 100  | 179  | QP     | Open      |      |



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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    | 0.48   | 56.13 | 37.18 | 18.95  | 94.01 | -37.08 | 100  | 168  | QP     | Open      |      |
| 2    | 0.99   | 51.01 | 31.75 | 19.26  | 67.73 | -16.72 | 100  | 156  | QP     | Open      |      |
| 3    | 1.49   | 47.79 | 28.45 | 19.34  | 64.12 | -16.33 | 100  | 156  | QP     | Open      |      |
| 4    | 2.00   | 45.19 | 25.78 | 19.41  | 69.50 | -24.31 | 100  | 151  | QP     | Open      |      |
| 5    | 2.51   | 42.91 | 23.44 | 19.47  | 69.50 | -26.59 | 100  | 167  | QP     | Open      |      |
| 6    | 23.58  | 36.44 | 14.08 | 22.36  | 69.50 | -33.06 | 100  | 64   | QP     | Open      |      |