

# Test Report No.60359813 001

## Appendix D: Radiated and Mains Spurious Emission Data

(File: 60359813 001Appendix D)

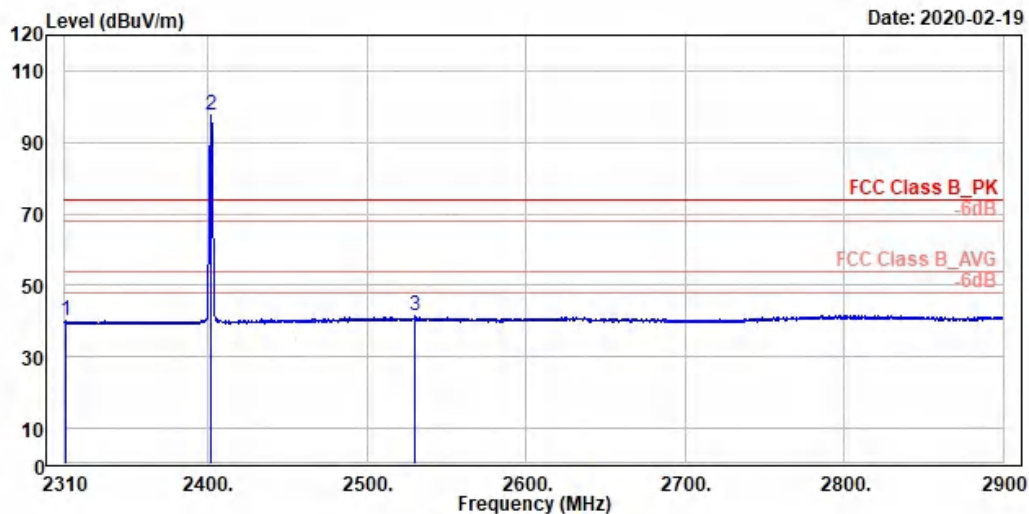
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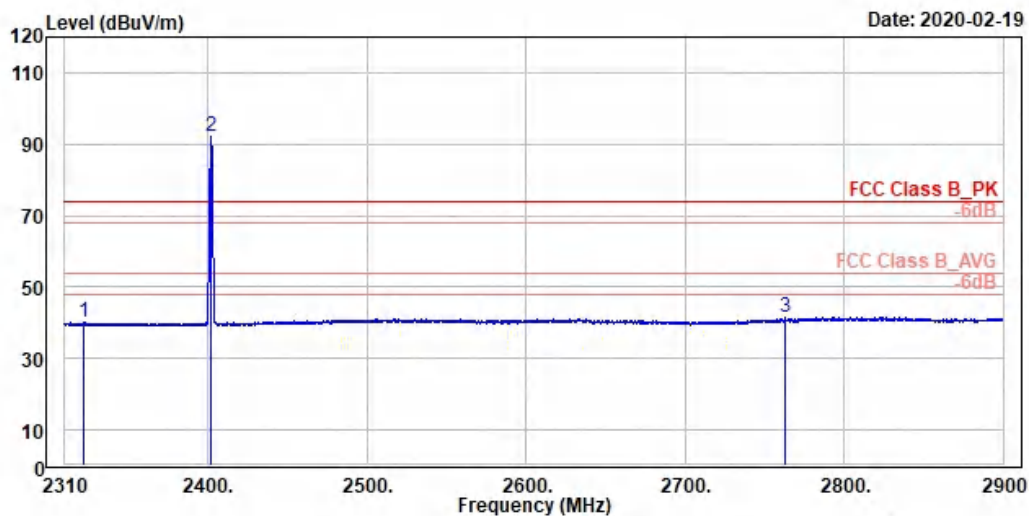
# Spurious Emissions, Band Edges for Bluetooth Low Energy 1Mbps



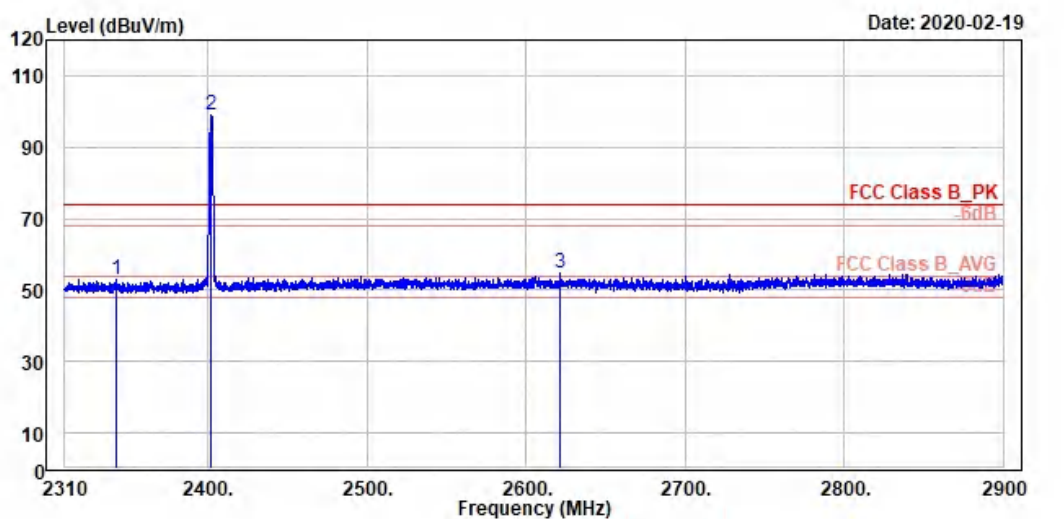
TUV Rheinland Taiwan Ltd.  
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel:+886-2172-1000 Fax:+886-2172-1322



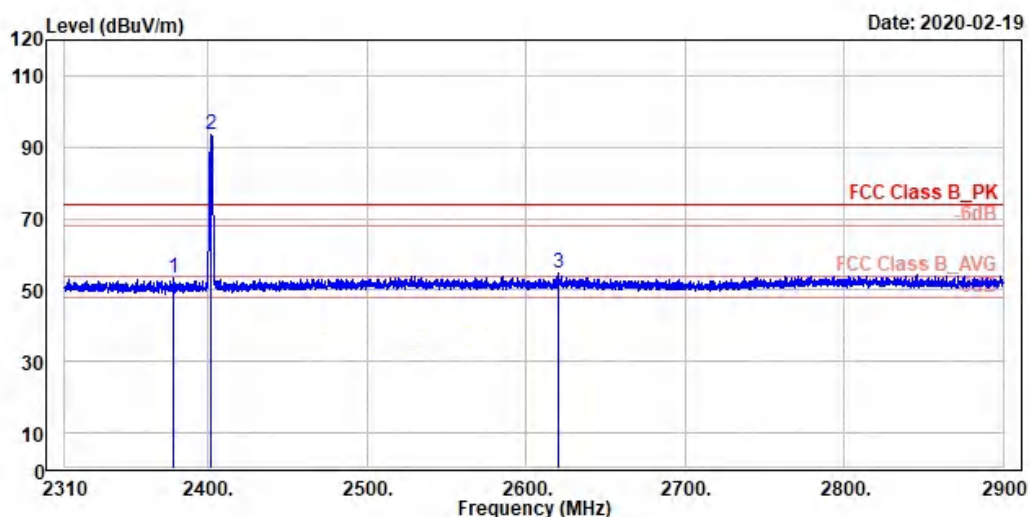
|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|------------|--------|------------|------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |         |            |
| 1   | 2310.118 | 40.02  | 2.90       | 37.12  | 54.00      | -13.98     | 245  | 69   | Average | Horizontal |
| 2 * | 2402.000 | 97.84  | 60.69      | 37.15  | 54.00      | 43.84      | 245  | 69   | Average | Horizontal |
| 3   | 2530.188 | 41.67  | 3.85       | 37.82  | 54.00      | -12.33     | 245  | 69   | Average | Horizontal |



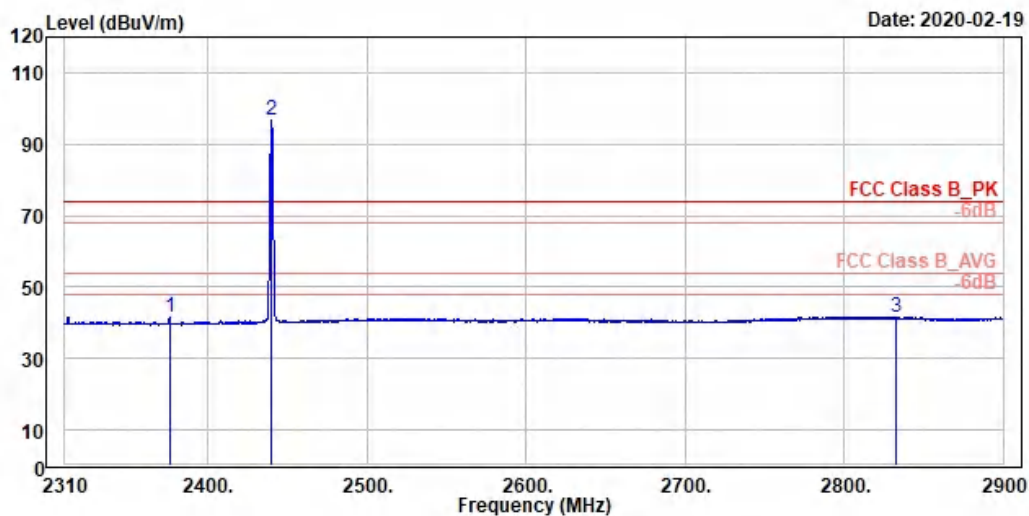
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2322.272 | 40.05  | 2.91          | 37.14  | 54.00         | -13.95        | 101  | 158  | Average | Vertical  |
| 2 * | 2402.000 | 92.35  | 55.20         | 37.15  | 54.00         | 38.35         | 101  | 158  | Average | Vertical  |
| 3   | 2762.648 | 41.57  | 3.49          | 38.08  | 54.00         | -12.43        | 101  | 158  | Average | Vertical  |



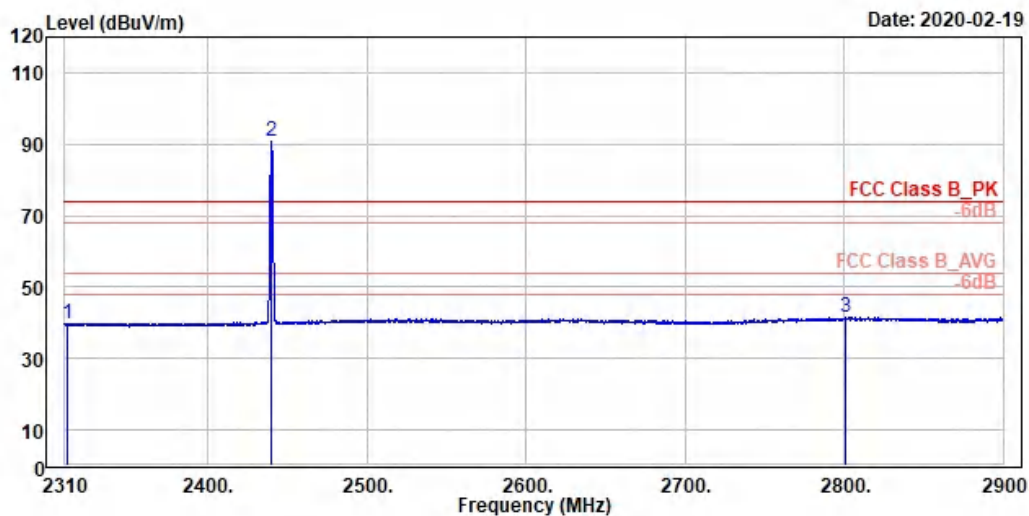
|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase  |
|-----|----------|--------|------------|--------|------------|------------|------|------|--------|------------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |            |
| 1   | 2341.860 | 52.89  | 15.73      | 37.16  | 74.00      | -21.11     | 245  | 69   | Peak   | Horizontal |
| 2 * | 2402.000 | 98.81  | 61.66      | 37.15  | 74.00      | 24.81      | 245  | 69   | Peak   | Horizontal |
| 3   | 2621.874 | 54.77  | 17.09      | 37.68  | 74.00      | -19.23     | 245  | 69   | Peak   | Horizontal |



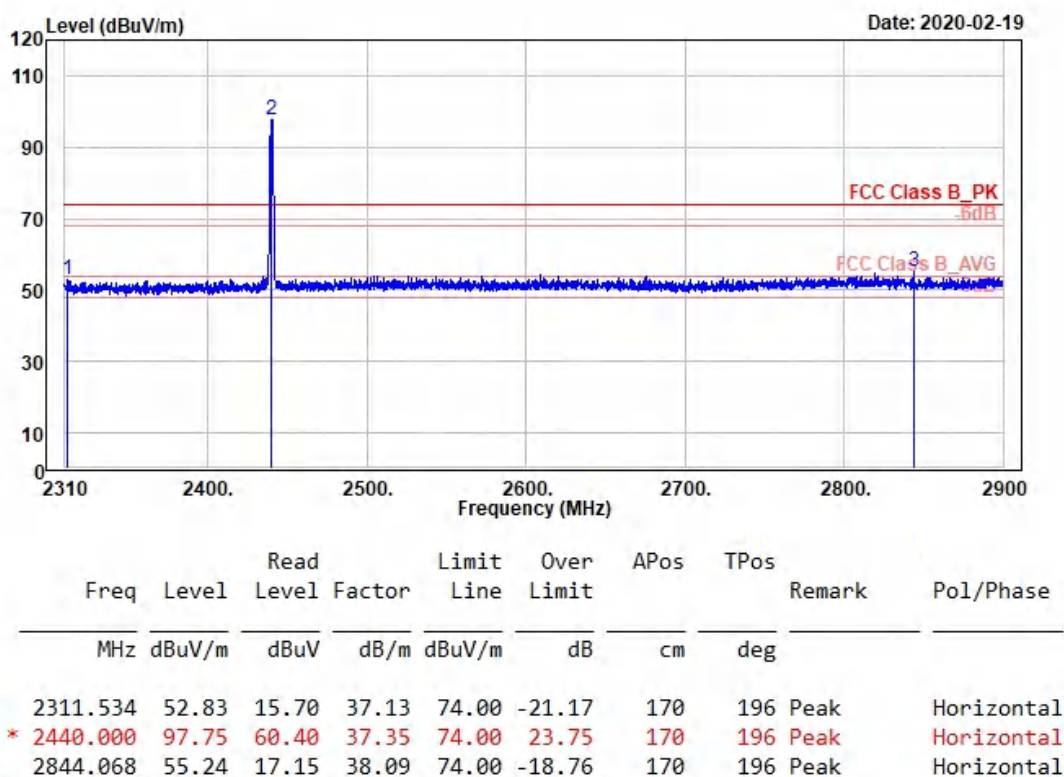
|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|------------|--------|------------|------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |           |
| 1   | 2378.204 | 53.24  | 16.09      | 37.15  | 74.00      | -20.76     | 101  | 158  | Peak   | Vertical  |
| 2 * | 2402.000 | 93.34  | 56.19      | 37.15  | 74.00      | 19.34      | 101  | 158  | Peak   | Vertical  |
| 3   | 2619.986 | 54.55  | 16.86      | 37.69  | 74.00      | -19.45     | 101  | 158  | Peak   | Vertical  |

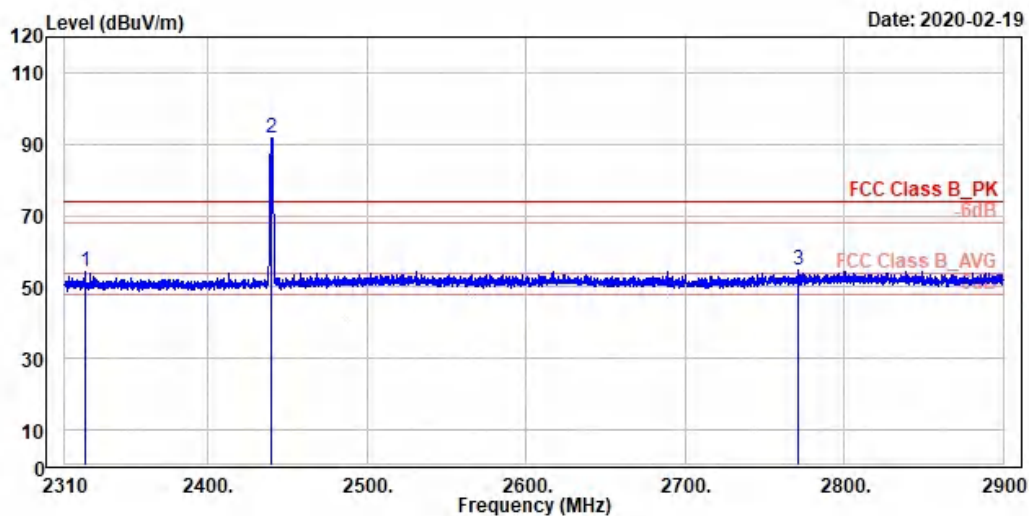


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1   | 2375.962 | 41.63  | 4.47          | 37.16  | 54.00         | -12.37        | 170  | 196  | Average | Horizontal |
| 2 * | 2440.000 | 96.79  | 59.44         | 37.35  | 54.00         | 42.79         | 170  | 196  | Average | Horizontal |
| 3   | 2833.212 | 41.67  | 3.57          | 38.10  | 54.00         | -12.33        | 170  | 196  | Average | Horizontal |

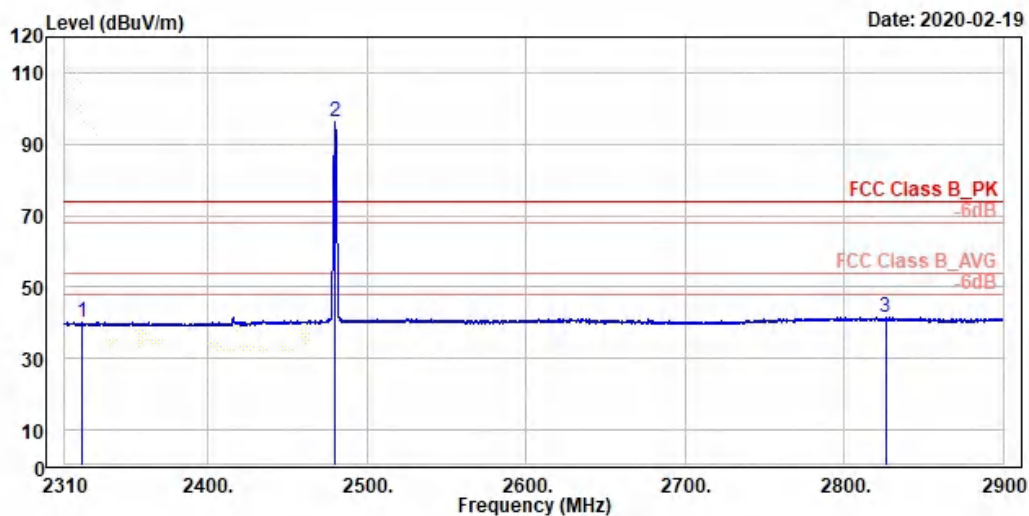


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2311.298 | 39.90  | 2.77          | 37.13  | 54.00         | -14.10        | 123  | 157  | Average | Vertical  |
| 2 * | 2440.000 | 90.76  | 53.41         | 37.35  | 54.00         | 36.76         | 123  | 157  | Average | Vertical  |
| 3   | 2801.116 | 41.59  | 3.46          | 38.13  | 54.00         | -12.41        | 123  | 157  | Average | Vertical  |

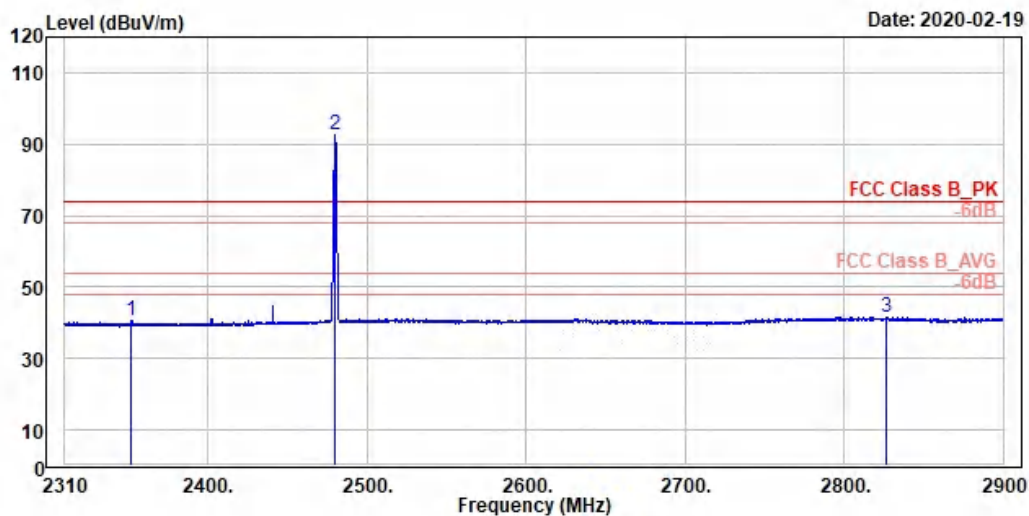




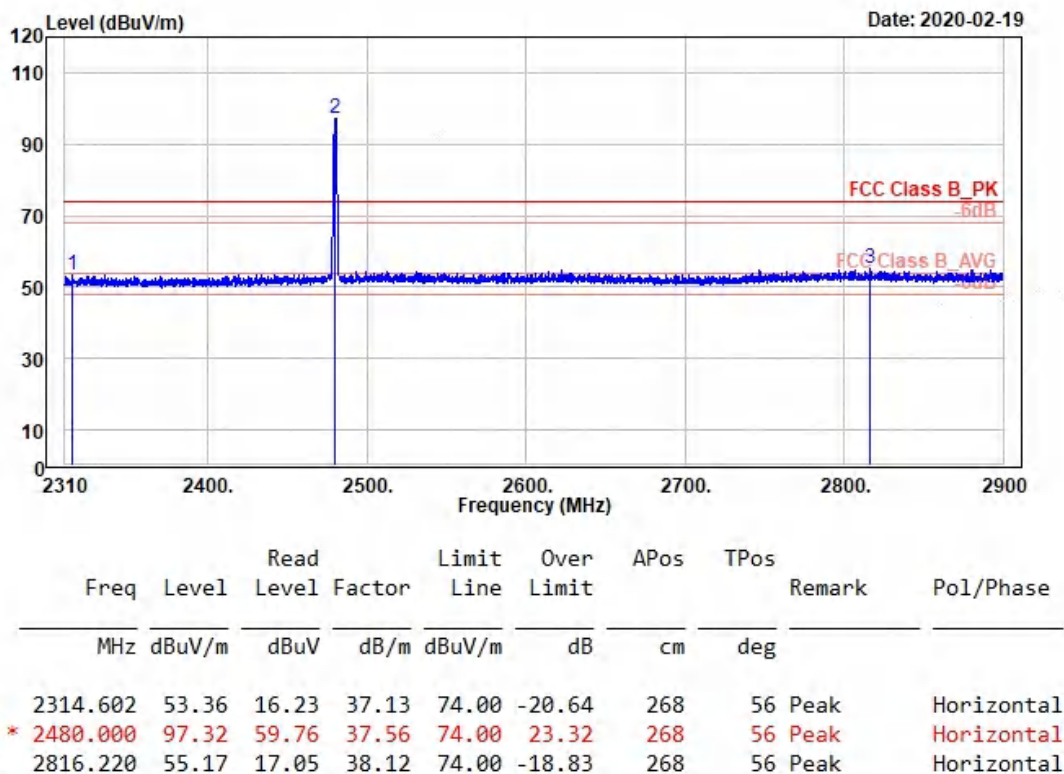
|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|------------|--------|------------|------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |           |
| 1   | 2322.508 | 54.52  | 17.38      | 37.14  | 74.00      | -19.48     | 123  | 157  | Peak   | Vertical  |
| 2 * | 2440.000 | 91.77  | 54.42      | 37.35  | 74.00      | 17.77      | 123  | 157  | Peak   | Vertical  |
| 3   | 2771.262 | 54.91  | 16.82      | 38.09  | 74.00      | -19.09     | 123  | 157  | Peak   | Vertical  |

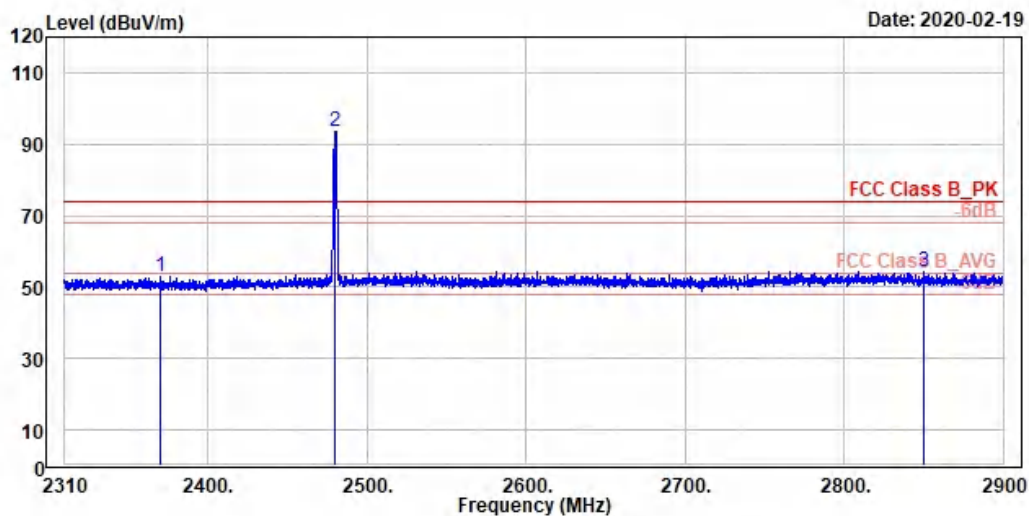


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1   | 2320.856 | 40.10  | 2.96          | 37.14  | 54.00         | -13.90        | 268  | 56   | Average | Horizontal |
| 2 * | 2480.000 | 96.31  | 58.75         | 37.56  | 54.00         | 42.31         | 268  | 56   | Average | Horizontal |
| 3   | 2826.132 | 41.51  | 3.40          | 38.11  | 54.00         | -12.49        | 268  | 56   | Average | Horizontal |



|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2351.890 | 40.75  | 3.57          | 37.18  | 54.00         | -13.25        | 360  | 176  | Average | Vertical  |
| 2 * | 2480.000 | 92.52  | 54.96         | 37.56  | 54.00         | 38.52         | 360  | 176  | Average | Vertical  |
| 3   | 2826.722 | 41.55  | 3.44          | 38.11  | 54.00         | -12.45        | 360  | 176  | Average | Vertical  |



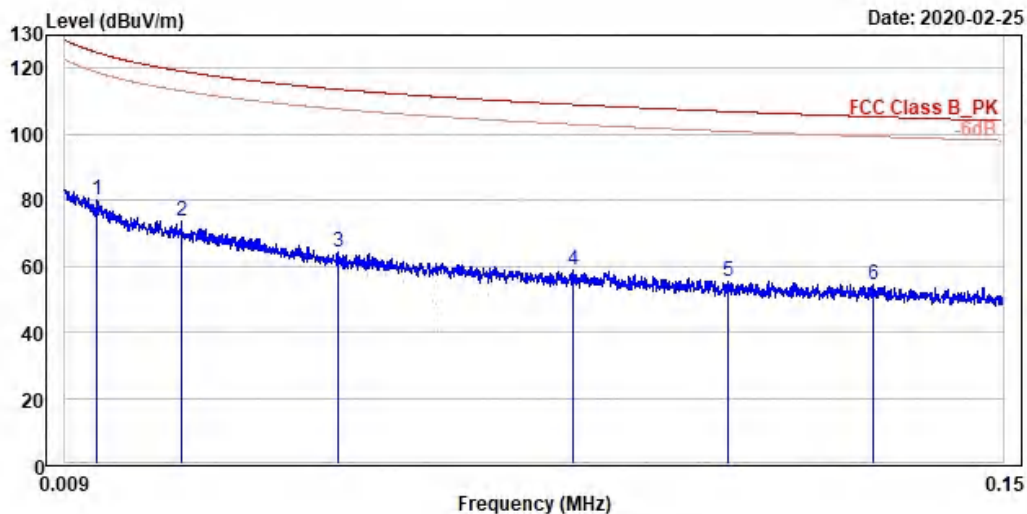


|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|------------|--------|------------|------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |           |
| 1   | 2370.416 | 52.84  | 15.68      | 37.16  | 74.00      | -21.16     | 360  | 176  | Peak   | Vertical  |
| 2 * | 2480.000 | 93.46  | 55.90      | 37.56  | 74.00      | 19.46      | 360  | 176  | Peak   | Vertical  |
| 3   | 2850.322 | 54.44  | 16.35      | 38.09  | 74.00      | -19.56     | 360  | 176  | Peak   | Vertical  |

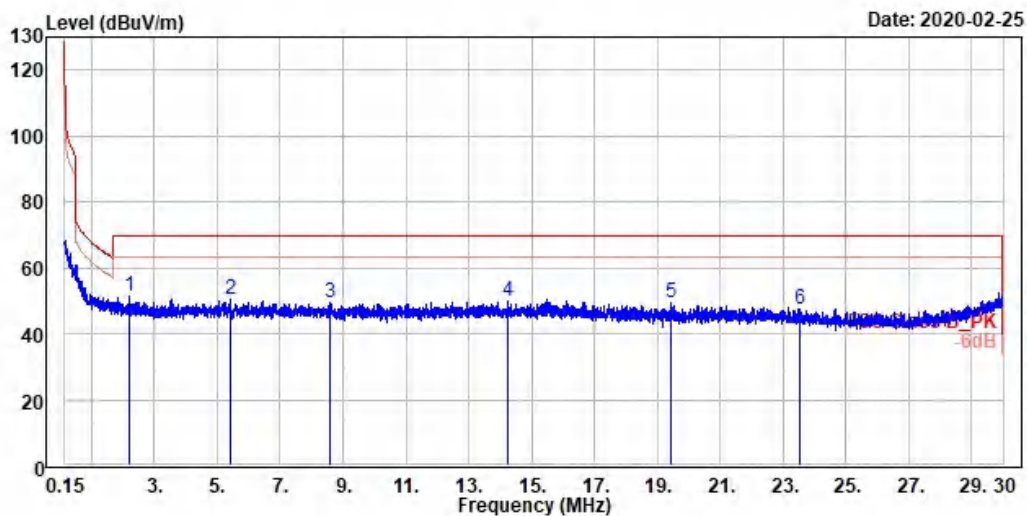
# Spurious Emissions, TX Mode, 9kHz-30MHz for Bluetooth Low Energy 1Mbps



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|   | Freq  | Level  | Read  | Limit  | Over   | APos   | TPos | Remark | Pol/Phase |
|---|-------|--------|-------|--------|--------|--------|------|--------|-----------|
|   | MHz   | dBuV/m | Level | Factor | Line   | Limit  |      |        |           |
|   |       |        | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg    |           |
| 1 | 0.014 | 80.18  | 3.78  | 76.40  | 124.74 | -44.56 | 100  | 329 QP | vertical  |
| 2 | 0.027 | 73.70  | 2.34  | 71.36  | 119.11 | -45.41 | 100  | 259 QP | vertical  |
| 3 | 0.050 | 64.46  | -0.58 | 65.04  | 113.60 | -49.14 | 100  | 44 QP  | vertical  |
| 4 | 0.085 | 58.75  | -2.08 | 60.83  | 108.98 | -50.23 | 100  | 168 QP | vertical  |
| 5 | 0.109 | 55.50  | -3.25 | 58.75  | 106.87 | -51.37 | 100  | 155 QP | vertical  |
| 6 | 0.130 | 54.23  | -3.26 | 57.49  | 105.29 | -51.06 | 100  | 349 QP | vertical  |

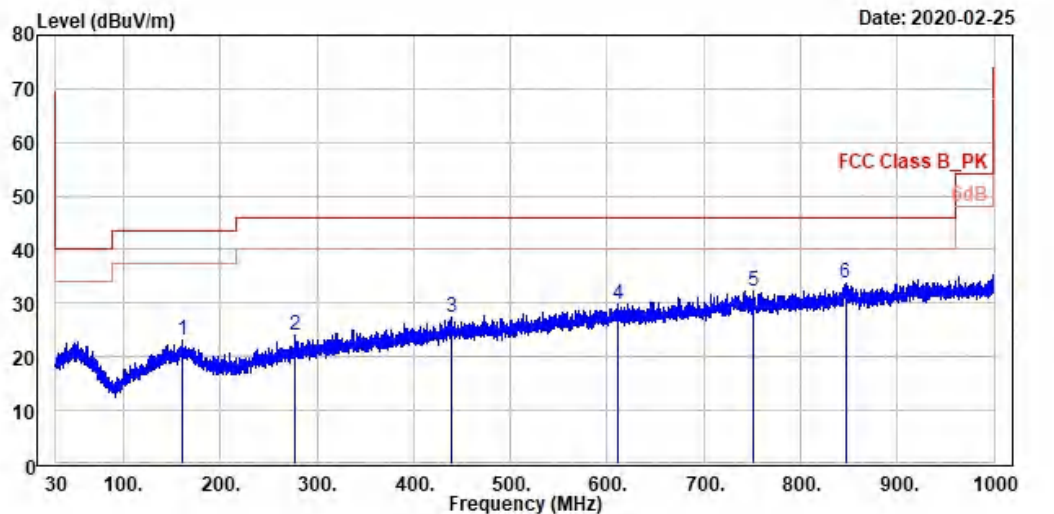


|   | Freq   | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase |
|---|--------|--------|---------------|--------|---------------|---------------|------|------|--------|-----------|
|   | MHz    | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |           |
| 1 | 2.213  | 51.65  | 13.06         | 38.59  | 69.50         | -17.85        | 100  | 198  | QP     | vertical  |
| 2 | 5.407  | 50.26  | 11.91         | 38.35  | 69.50         | -19.24        | 100  | 147  | QP     | vertical  |
| 3 | 8.586  | 49.46  | 11.56         | 37.90  | 69.50         | -20.04        | 100  | 360  | QP     | vertical  |
| 4 | 14.248 | 50.03  | 12.39         | 37.64  | 69.50         | -19.47        | 100  | 297  | QP     | vertical  |
| 5 | 19.439 | 49.26  | 12.90         | 36.36  | 69.50         | -20.24        | 100  | 169  | QP     | vertical  |
| 6 | 23.514 | 47.57  | 12.35         | 35.22  | 69.50         | -21.93        | 100  | 326  | QP     | vertical  |

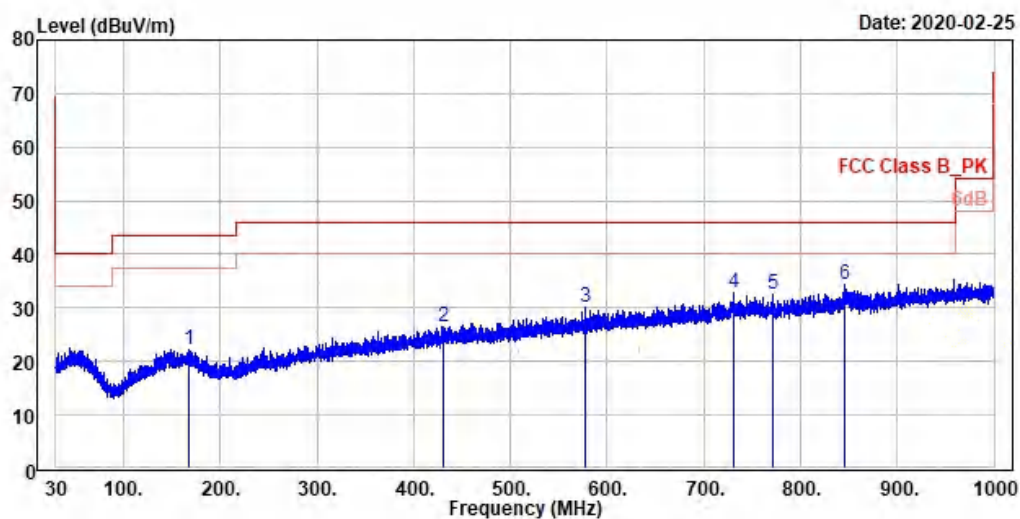
# Spurious Emissions, TX Mode, 30MHz-1GHz for Bluetooth Low Energy 1Mbps



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|   | Freq    | Level  | Read  | Limit  | Over   | APos   | TPos | Remark | Pol/Phase  |
|---|---------|--------|-------|--------|--------|--------|------|--------|------------|
|   | MHz     | dBuV/m | Level | Factor | Line   | Limit  |      |        |            |
|   |         |        | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg    |            |
| 1 | 159.980 | 23.17  | 29.16 | -5.99  | 43.50  | -20.33 | 400  | 48 QP  | horizontal |
| 2 | 277.447 | 23.96  | 29.41 | -5.45  | 46.00  | -22.04 | 100  | 337 QP | horizontal |
| 3 | 439.728 | 27.32  | 29.65 | -2.33  | 46.00  | -18.68 | 400  | 112 QP | horizontal |
| 4 | 611.321 | 29.92  | 29.59 | 0.33   | 46.00  | -16.08 | 400  | 190 QP | horizontal |
| 5 | 751.486 | 32.36  | 29.96 | 2.40   | 46.00  | -13.64 | 400  | 327 QP | horizontal |
| 6 | 846.546 | 33.76  | 30.32 | 3.44   | 46.00  | -12.24 | 400  | 128 QP | horizontal |

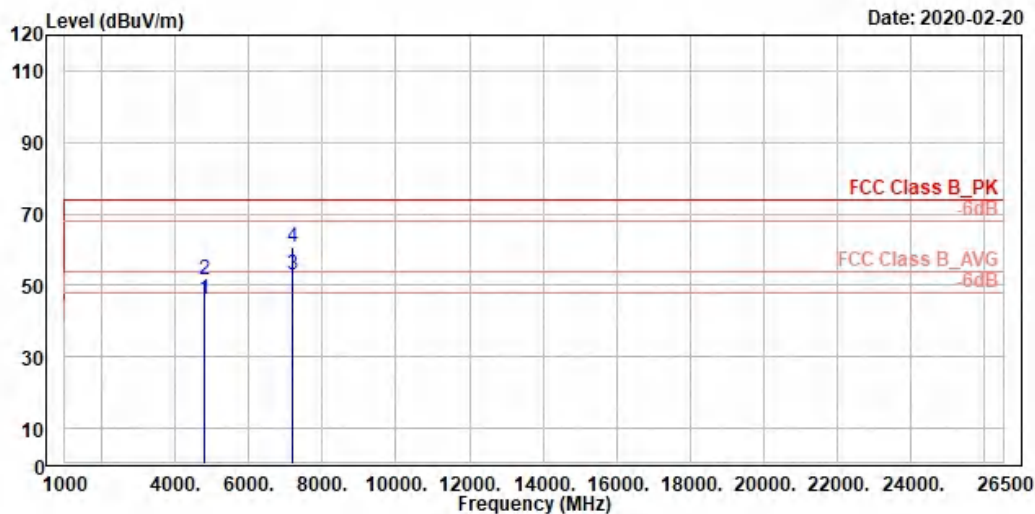


|   | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase |
|---|---------|--------|---------------|--------|---------------|---------------|------|------|--------|-----------|
|   | MHz     | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |           |
| 1 | 167.158 | 22.13  | 28.08         | -5.95  | 43.50         | -21.37        | 344  | 360  | QP     | vertical  |
| 2 | 430.901 | 26.56  | 29.08         | -2.52  | 46.00         | -19.44        | 200  | 248  | QP     | vertical  |
| 3 | 577.565 | 30.09  | 30.50         | -0.41  | 46.00         | -15.91        | 400  | 340  | QP     | vertical  |
| 4 | 731.019 | 32.77  | 30.88         | 1.89   | 46.00         | -13.23        | 200  | 11   | QP     | vertical  |
| 5 | 772.147 | 32.70  | 30.20         | 2.50   | 46.00         | -13.30        | 239  | 0    | QP     | vertical  |
| 6 | 844.994 | 34.22  | 30.79         | 3.43   | 46.00         | -11.78        | 100  | 294  | QP     | vertical  |

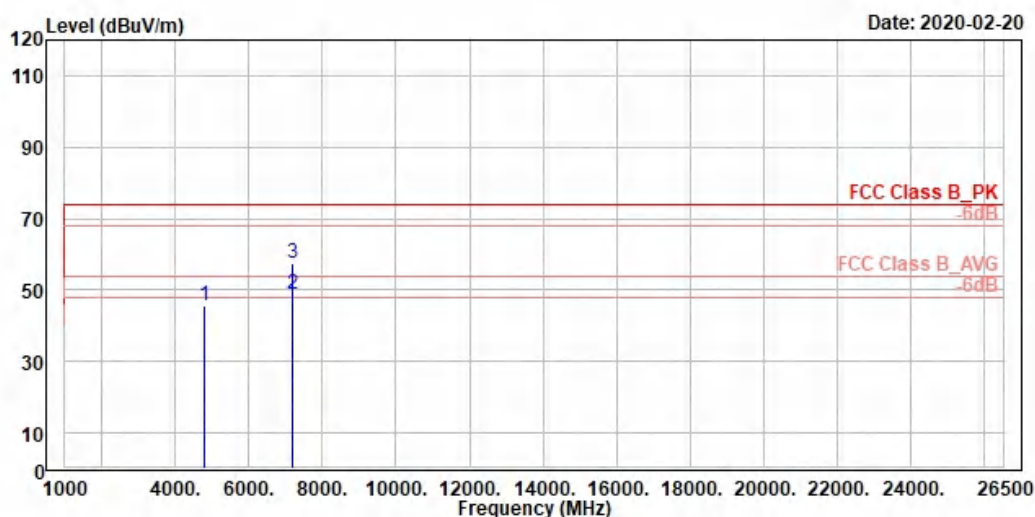
# Spurious Emissions, TX Mode, 1GHz-26.5GHz for Bluetooth Low Energy 1Mbps



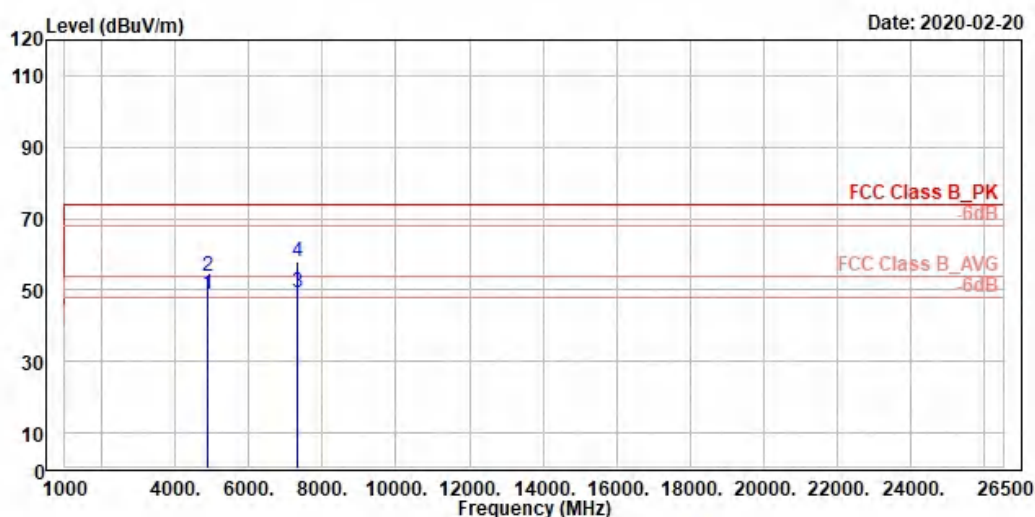
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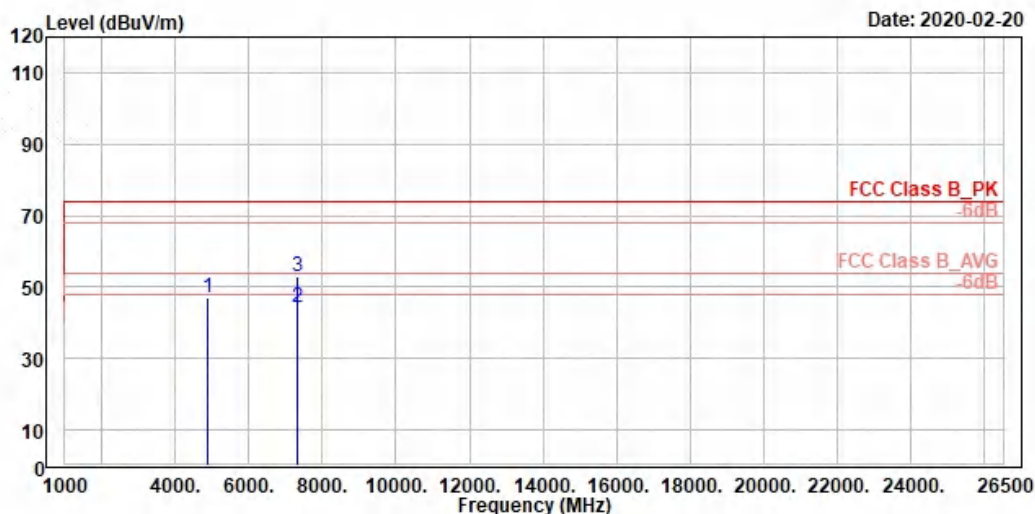
|   | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark  | Pol/Phase  |
|---|----------|--------|------------|--------|------------|------------|------|------|---------|------------|
|   | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |         |            |
| 1 | 4804.000 | 46.17  | 55.61      | -9.44  | 54.00      | -7.83      | 100  | 30   | Average | horizontal |
| 2 | 4804.000 | 51.48  | 60.92      | -9.44  | 74.00      | -22.52     | 100  | 30   | Peak    | horizontal |
| 3 | 7206.000 | 52.74  | 59.56      | -6.82  | 54.00      | -1.26      | 100  | 65   | Average | horizontal |
| 4 | 7206.000 | 60.90  | 67.72      | -6.82  | 74.00      | -13.10     | 100  | 65   | Peak    | horizontal |



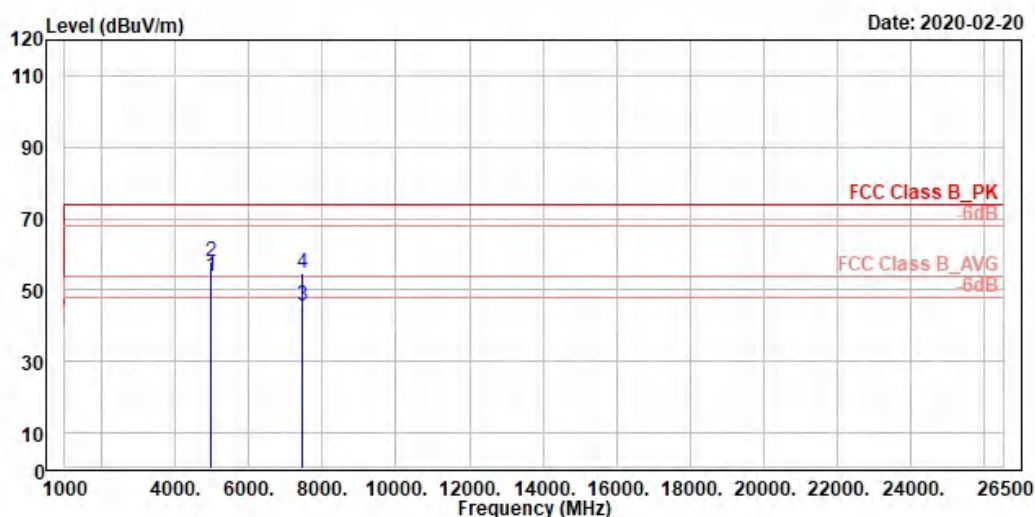
|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 | 4804.000 | 45.78  | 55.22         | -9.44  | 74.00         | -28.22        | 300  | 175  | Peak    | vertical  |
| 2 | 7206.000 | 48.59  | 55.41         | -6.82  | 54.00         | -5.41         | 400  | 34   | Average | vertical  |
| 3 | 7206.000 | 57.61  | 64.43         | -6.82  | 74.00         | -16.39        | 400  | 34   | Peak    | vertical  |



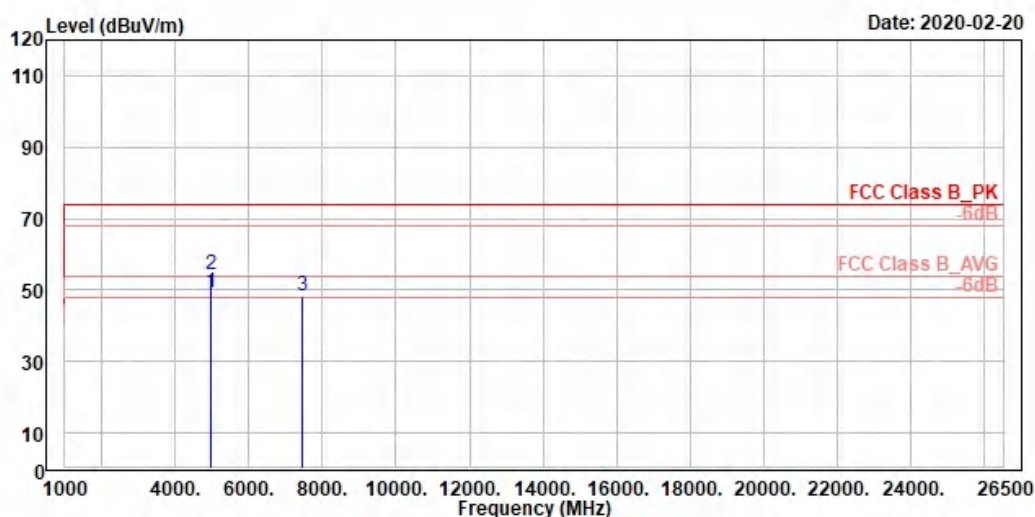
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1 ! | 4880.000 | 48.93  | 58.24         | -9.31  | 54.00         | -5.07         | 100  | 115  | Average | horizontal |
| 2   | 4880.000 | 53.93  | 63.24         | -9.31  | 74.00         | -20.07        | 100  | 115  | Peak    | horizontal |
| 3 ! | 7320.000 | 49.18  | 55.88         | -6.70  | 54.00         | -4.82         | 100  | 63   | Average | horizontal |
| 4   | 7320.000 | 57.80  | 64.50         | -6.70  | 74.00         | -16.20        | 100  | 63   | Peak    | horizontal |



|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 | 4879.000 | 47.04  | 56.35         | -9.31  | 74.00         | -26.96        | 300  | 205  | Peak    | vertical  |
| 2 | 7320.000 | 44.18  | 50.88         | -6.70  | 54.00         | -9.82         | 400  | 197  | Average | vertical  |
| 3 | 7320.000 | 52.92  | 59.62         | -6.70  | 74.00         | -21.08        | 400  | 197  | Peak    | vertical  |



|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1 ! | 4960.000 | 53.64  | 62.77         | -9.13  | 54.00         | -0.36         | 100  | 77   | Average | horizontal |
| 2   | 4960.000 | 58.16  | 67.29         | -9.13  | 74.00         | -15.84        | 100  | 77   | Peak    | horizontal |
| 3   | 7440.000 | 45.57  | 52.27         | -6.70  | 54.00         | -8.43         | 100  | 63   | Average | horizontal |
| 4   | 7440.000 | 54.83  | 61.53         | -6.70  | 74.00         | -19.17        | 100  | 63   | Peak    | horizontal |

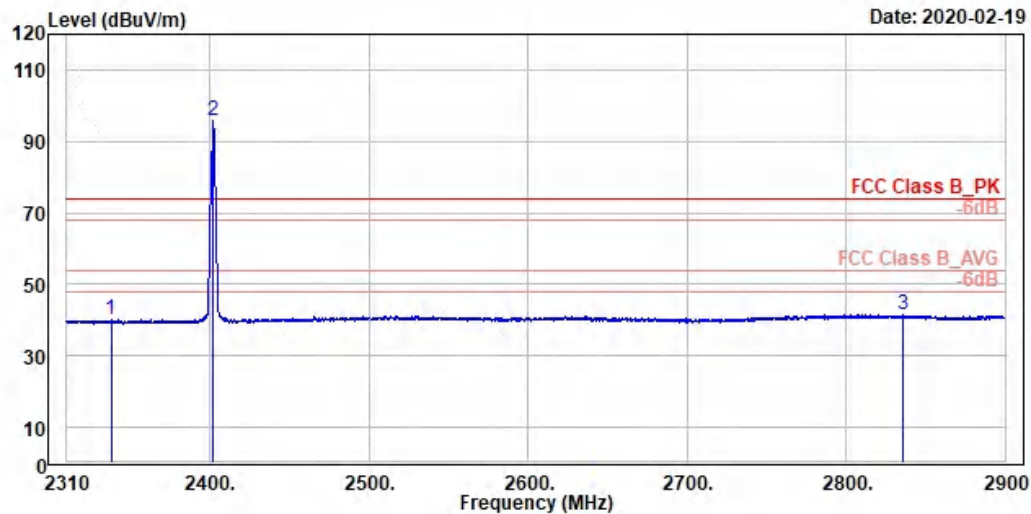


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 ! | 4960.000 | 49.26  | 58.39         | -9.13  | 54.00         | -4.74         | 342  | 337  | Average | vertical  |
| 2   | 4960.000 | 54.15  | 63.28         | -9.13  | 74.00         | -19.85        | 342  | 337  | Peak    | vertical  |
| 3   | 7440.000 | 48.19  | 54.89         | -6.70  | 74.00         | -25.81        | 336  | 360  | Peak    | vertical  |

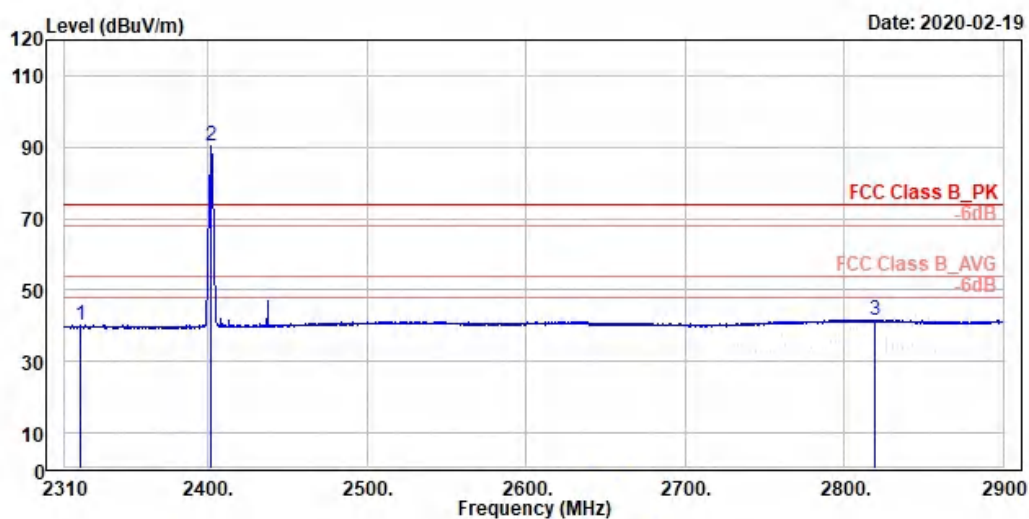
## Spurious Emissions, Band Edges for Bluetooth Low Energy 2Mbps



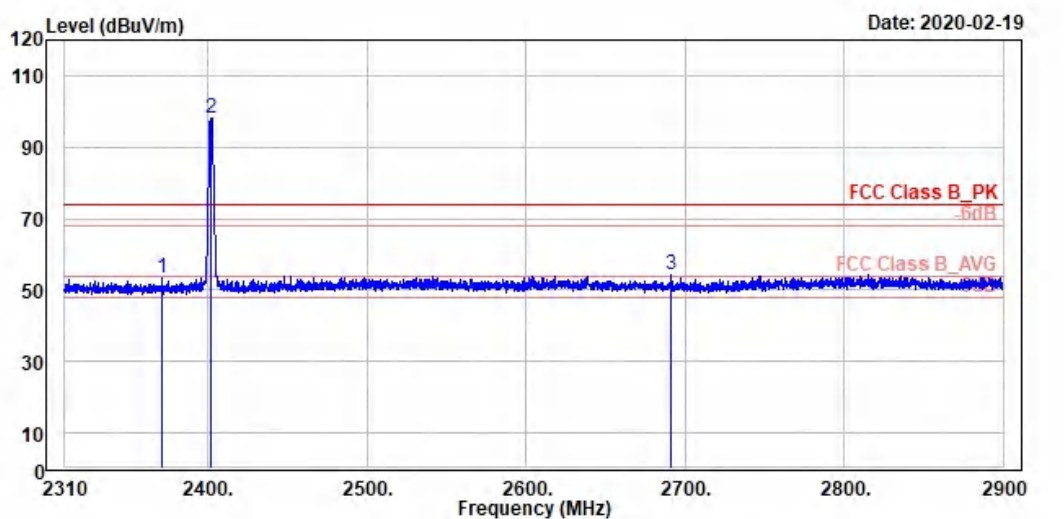
TÜV Rheinland Taiwan Ltd.  
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
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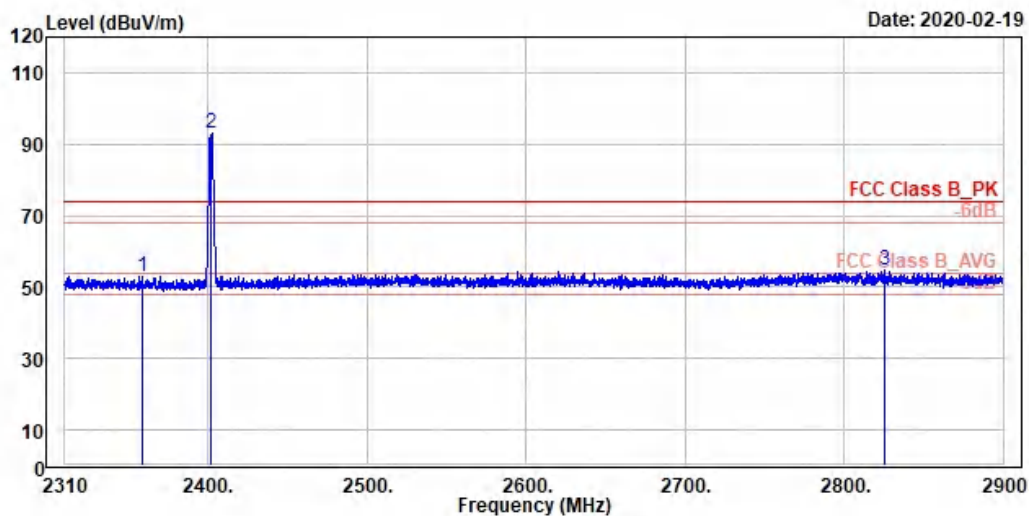
|     | Freq     | Level  | Read  | Limit  | Over   | APos   | TPos | Remark      | Pol/Phase  |
|-----|----------|--------|-------|--------|--------|--------|------|-------------|------------|
|     | MHz      | dBuV/m | Level | Factor | Line   | Limit  |      |             |            |
|     |          |        | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg         |            |
| 1   | 2337.730 | 40.20  | 3.04  | 37.16  | 54.00  | -13.80 | 135  | 196 Average | Horizontal |
| 2 * | 2402.000 | 95.67  | 58.52 | 37.15  | 54.00  | 41.67  | 135  | 196 Average | Horizontal |
| 3   | 2836.044 | 41.53  | 3.43  | 38.10  | 54.00  | -12.47 | 135  | 196 Average | Horizontal |



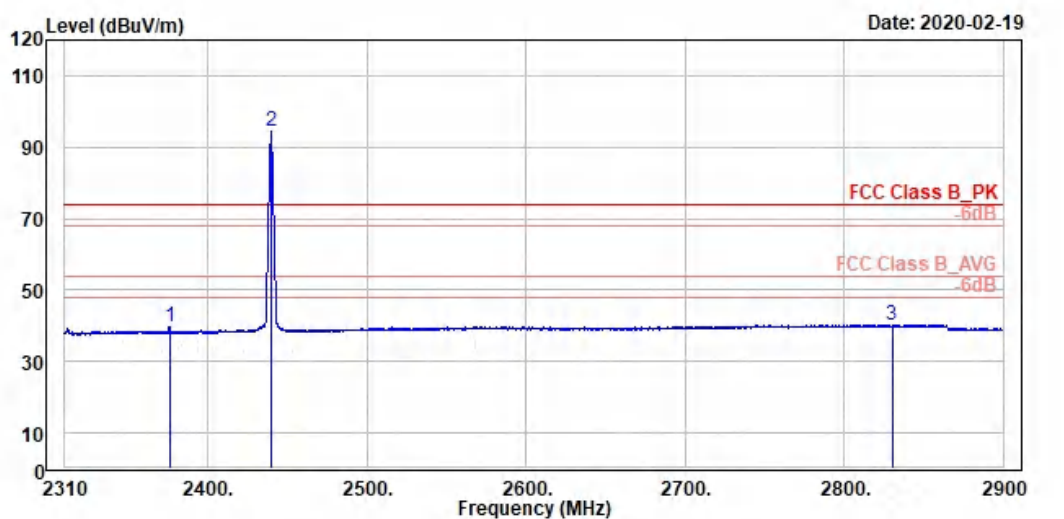
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2319.322 | 40.08  | 2.94          | 37.14  | 54.00         | -13.92        | 101  | 158  | Average | Vertical  |
| 2 * | 2402.000 | 90.23  | 53.08         | 37.15  | 54.00         | 36.23         | 101  | 158  | Average | Vertical  |
| 3   | 2819.642 | 41.70  | 3.59          | 38.11  | 54.00         | -12.30        | 101  | 158  | Average | Vertical  |



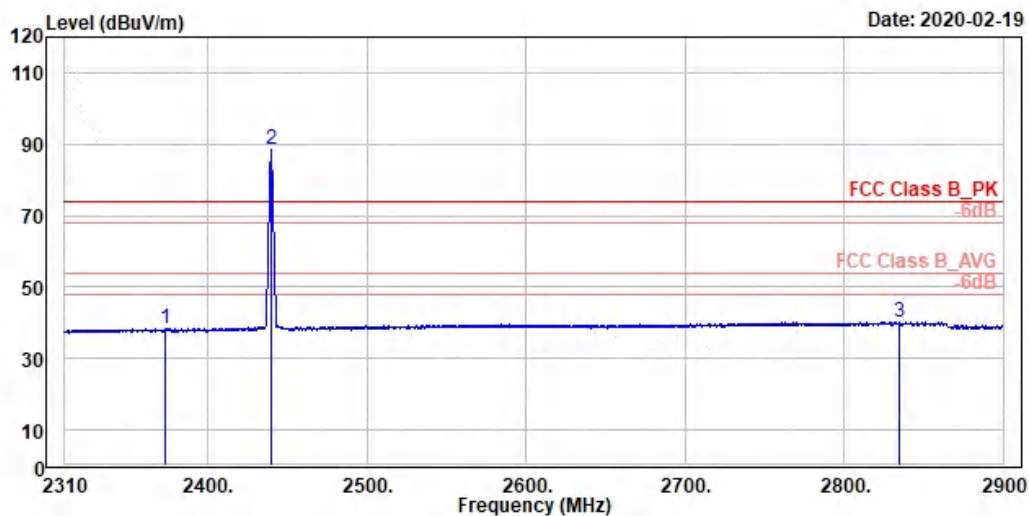
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|--------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |            |
| 1   | 2370.770 | 53.60  | 16.44         | 37.16  | 74.00         | -20.40        | 135  | 196  | Peak   | Horizontal |
| 2 * | 2402.000 | 98.28  | 61.13         | 37.15  | 74.00         | 24.28         | 135  | 196  | Peak   | Horizontal |
| 3   | 2691.140 | 54.20  | 16.53         | 37.67  | 74.00         | -19.80        | 135  | 196  | Peak   | Horizontal |



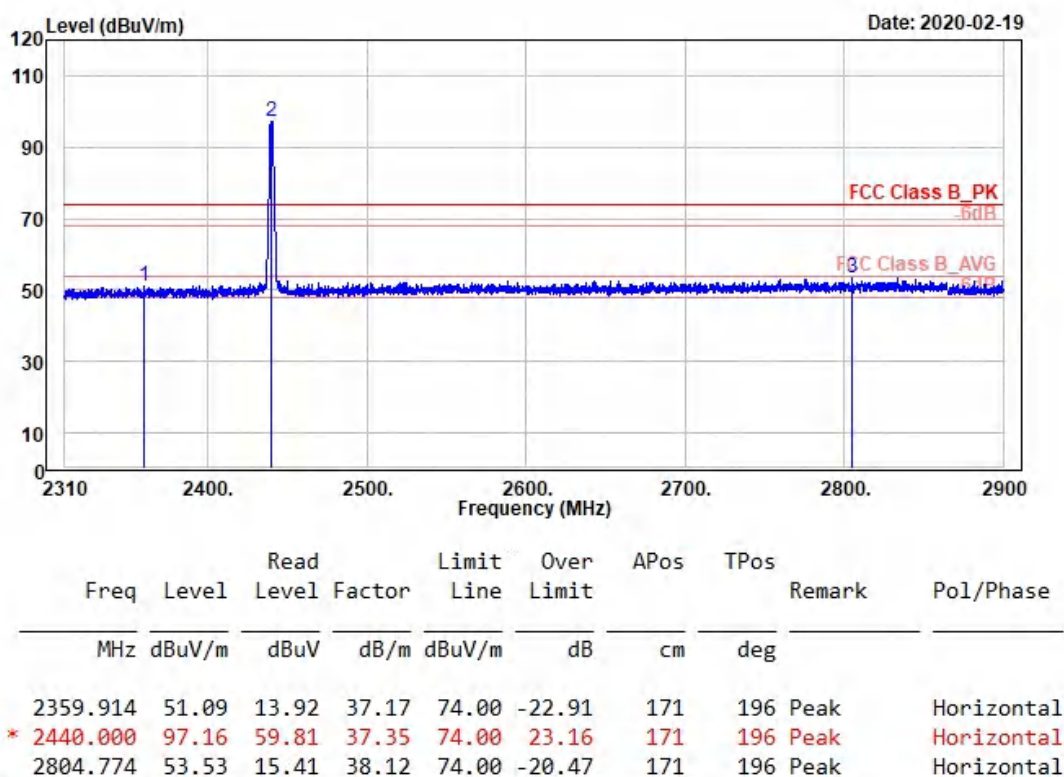
|     | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|------------|--------|------------|------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |        |           |
| 1   | 2358.498 | 53.13  | 15.97      | 37.16  | 74.00      | -20.87     | 101  | 158  | Peak   | Vertical  |
| 2 * | 2402.000 | 92.89  | 55.74      | 37.15  | 74.00      | 18.89      | 101  | 158  | Peak   | Vertical  |
| 3   | 2825.660 | 54.54  | 16.43      | 38.11  | 74.00      | -19.46     | 101  | 158  | Peak   | Vertical  |

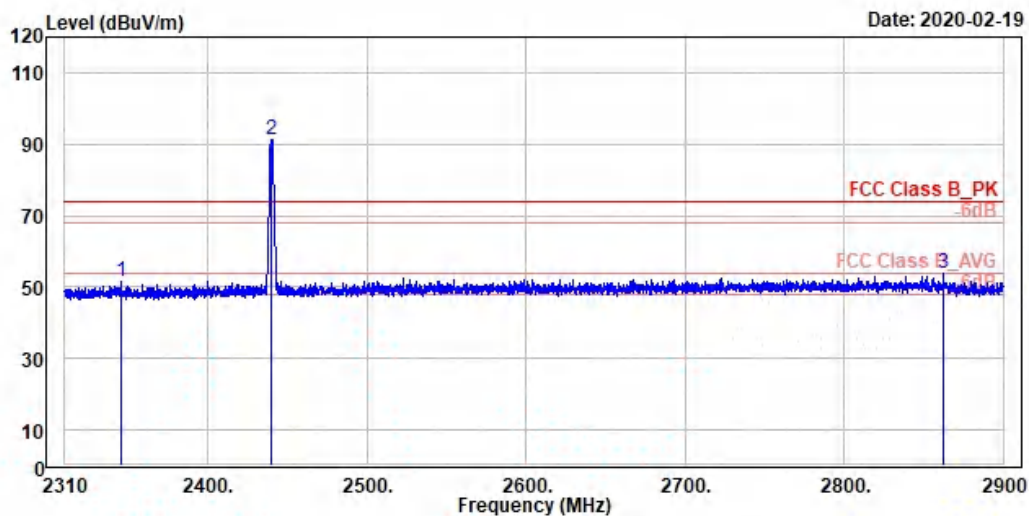


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1   | 2375.726 | 39.81  | 2.65          | 37.16  | 54.00         | -14.19        | 171  | 196  | Average | Horizontal |
| 2 * | 2440.000 | 94.56  | 57.21         | 37.35  | 54.00         | 40.56         | 171  | 196  | Average | Horizontal |
| 3   | 2830.262 | 40.33  | 2.23          | 38.10  | 54.00         | -13.67        | 171  | 196  | Average | Horizontal |

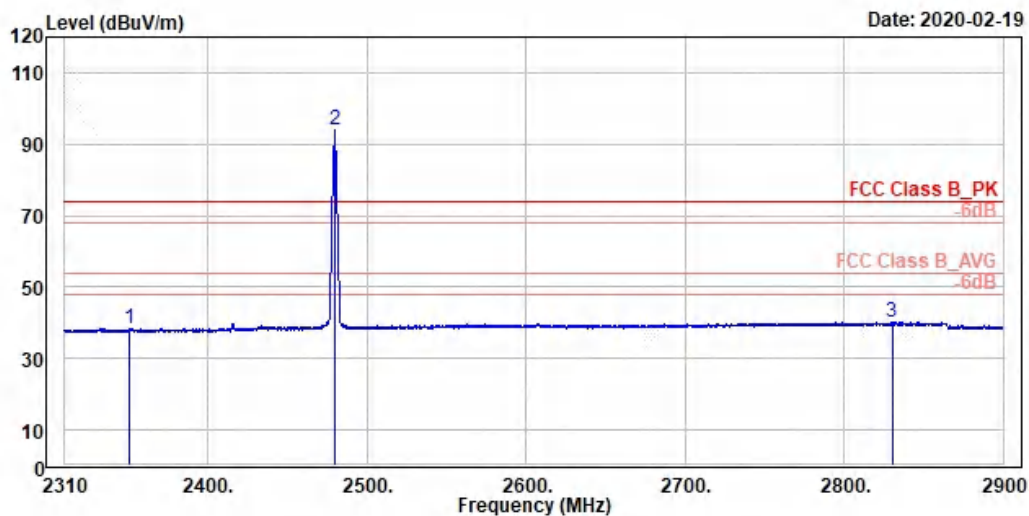


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2373.130 | 38.35  | 1.20          | 37.15  | 54.00         | -15.65        | 124  | 158  | Average | Vertical  |
| 2 * | 2440.000 | 88.60  | 51.25         | 37.35  | 54.00         | 34.60         | 124  | 158  | Average | Vertical  |
| 3   | 2835.218 | 40.29  | 2.19          | 38.10  | 54.00         | -13.71        | 124  | 158  | Average | Vertical  |

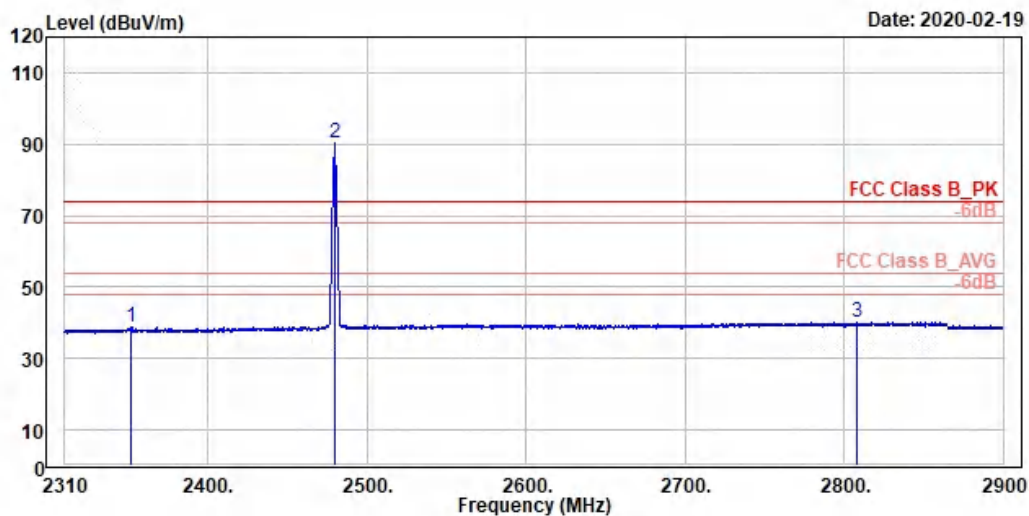




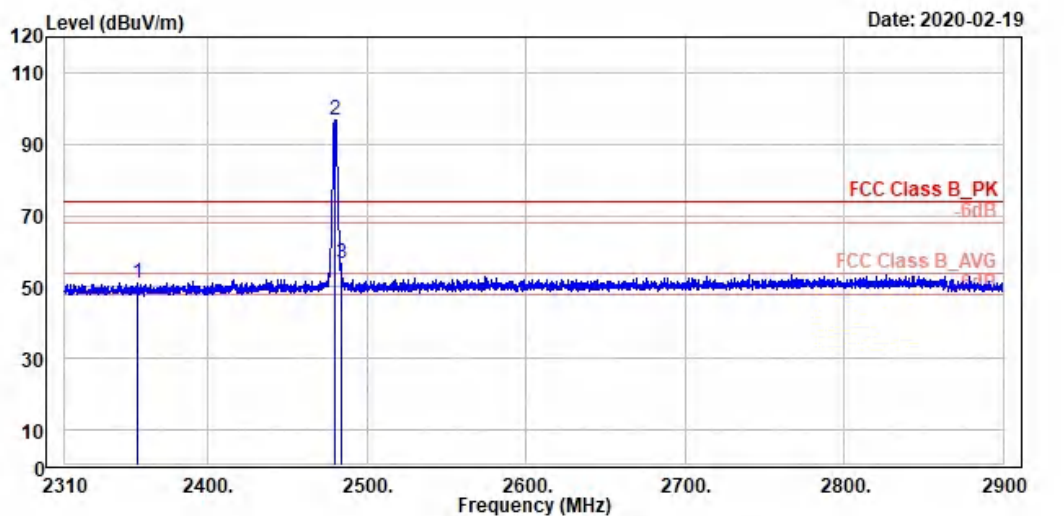
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |           |
| 1   | 2345.282 | 51.72  | 14.55         | 37.17  | 74.00         | -22.28        | 124  | 158  | Peak   | Vertical  |
| 2 * | 2440.000 | 91.20  | 53.85         | 37.35  | 74.00         | 17.20         | 124  | 158  | Peak   | Vertical  |
| 3   | 2862.358 | 53.94  | 15.86         | 38.08  | 74.00         | -20.06        | 124  | 158  | Peak   | Vertical  |



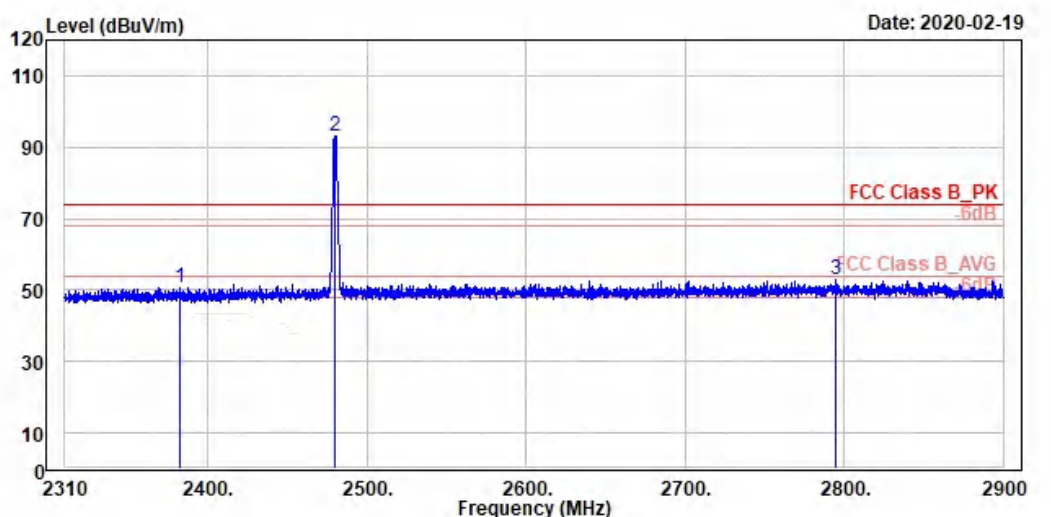
|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1   | 2350.946 | 38.42  | 1.24          | 37.18  | 54.00         | -15.58        | 268  | 56   | Average | Horizontal |
| 2 * | 2480.000 | 93.83  | 56.27         | 37.56  | 54.00         | 39.83         | 268  | 56   | Average | Horizontal |
| 3   | 2830.262 | 40.23  | 2.13          | 38.10  | 54.00         | -13.77        | 268  | 56   | Average | Horizontal |



|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1   | 2351.536 | 38.96  | 1.78          | 37.18  | 54.00         | -15.04        | 363  | 177  | Average | Vertical  |
| 2 * | 2480.000 | 90.37  | 52.81         | 37.56  | 54.00         | 36.37         | 363  | 177  | Average | Vertical  |
| 3   | 2807.724 | 40.21  | 2.09          | 38.12  | 54.00         | -13.79        | 363  | 177  | Average | Vertical  |



|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|--------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |            |
| 1   | 2356.138 | 50.96  | 13.79         | 37.17  | 74.00         | -23.04        | 268  | 56   | Peak   | Horizontal |
| 2 * | 2480.000 | 96.75  | 59.19         | 37.56  | 74.00         | 22.75         | 268  | 56   | Peak   | Horizontal |
| 3   | 2483.500 | 56.49  | 18.92         | 37.57  | 74.00         | -17.51        | 268  | 56   | Peak   | Horizontal |

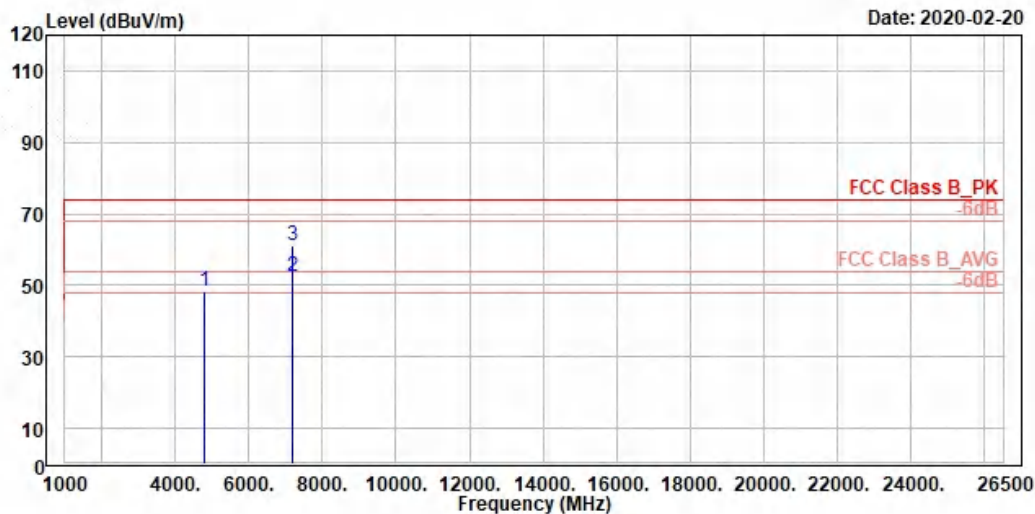


|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark | Pol/Phase |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|--------|-----------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |        |           |
| 1   | 2382.570 | 50.74  | 13.60         | 37.14  | 74.00         | -23.26        | 363  | 177  | Peak   | Vertical  |
| 2 * | 2480.000 | 93.12  | 55.56         | 37.56  | 74.00         | 19.12         | 363  | 177  | Peak   | Vertical  |
| 3   | 2795.098 | 52.87  | 14.75         | 38.12  | 74.00         | -21.13        | 363  | 177  | Peak   | Vertical  |

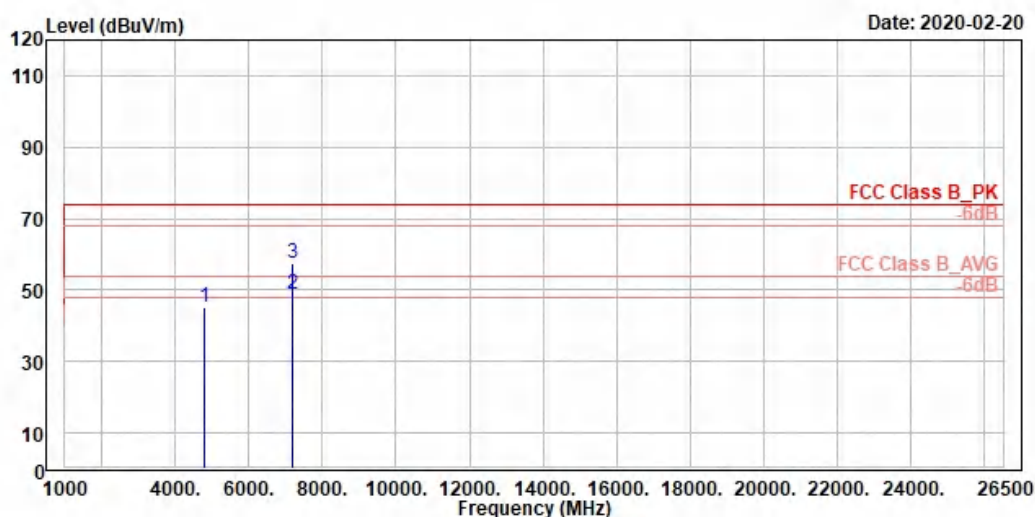
# Spurious Emissions, TX Mode, 1GHz-26.5GHz for Bluetooth Low Energy 2Mbps



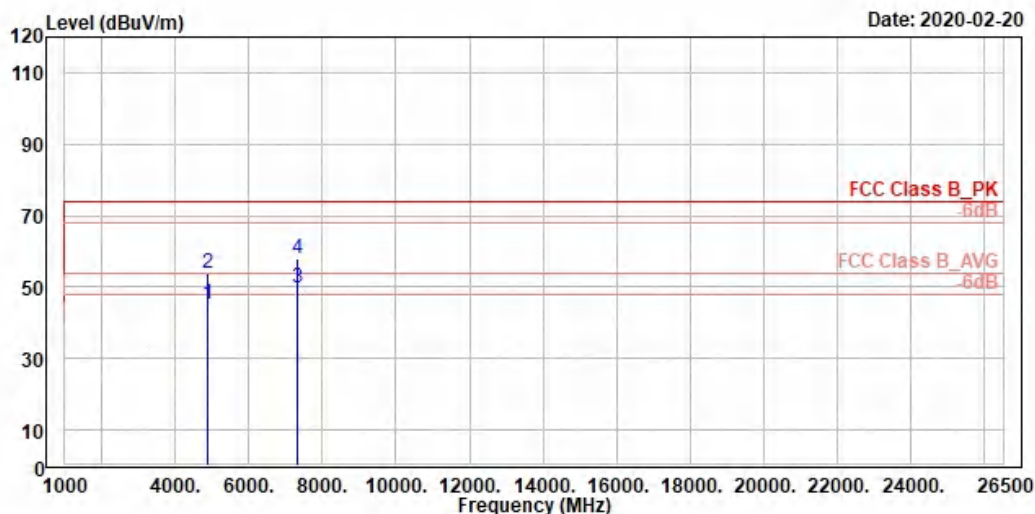
TUV Rheinland Taiwan Ltd.  
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)  
Tel:+886-2172-1000 Fax:+886-2172-1322



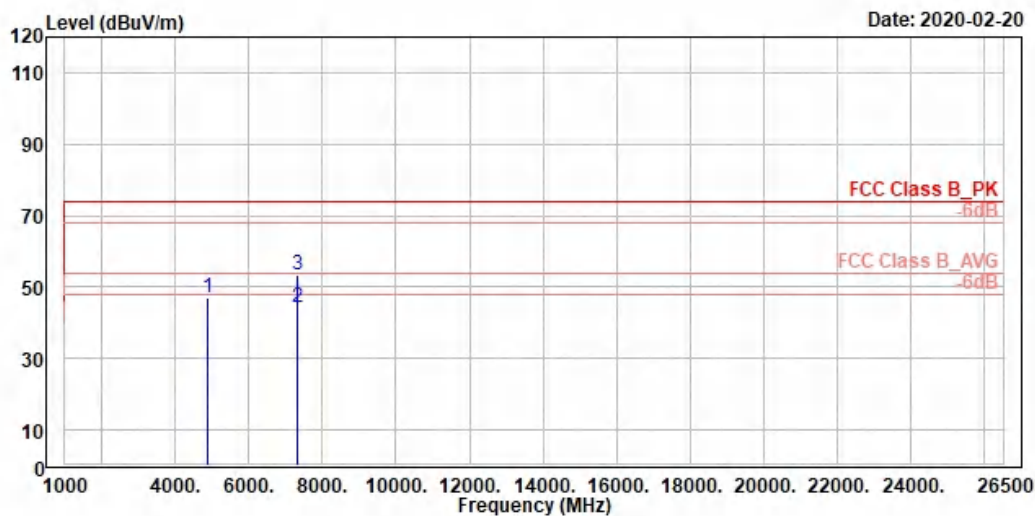
|   | Freq     | Level  | Read Level | Factor | Limit Line | Over Limit | APos | TPos | Remark  | Pol/Phase  |
|---|----------|--------|------------|--------|------------|------------|------|------|---------|------------|
|   | MHz      | dBuV/m | dBuV       | dB/m   | dBuV/m     | dB         | cm   | deg  |         |            |
| 1 | 4804.000 | 48.34  | 57.78      | -9.44  | 74.00      | -25.66     | 200  | 23   | Peak    | horizontal |
| 2 | 7206.000 | 52.41  | 59.23      | -6.82  | 54.00      | -1.59      | 100  | 64   | Average | horizontal |
| 3 | 7206.000 | 61.17  | 67.99      | -6.82  | 74.00      | -12.83     | 100  | 64   | Peak    | horizontal |



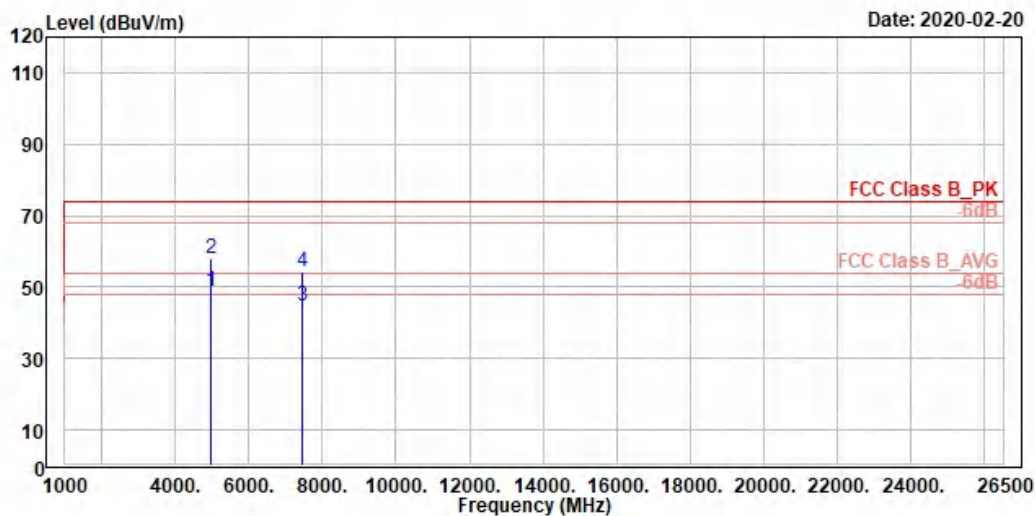
|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 | 4804.000 | 45.05  | 54.49         | -9.44  | 74.00         | -28.95        | 300  | 134  | Peak    | vertical  |
| 2 | 7206.000 | 48.66  | 55.48         | -6.82  | 54.00         | -5.34         | 400  | 34   | Average | vertical  |
| 3 | 7206.000 | 57.56  | 64.38         | -6.82  | 74.00         | -16.44        | 400  | 34   | Peak    | vertical  |



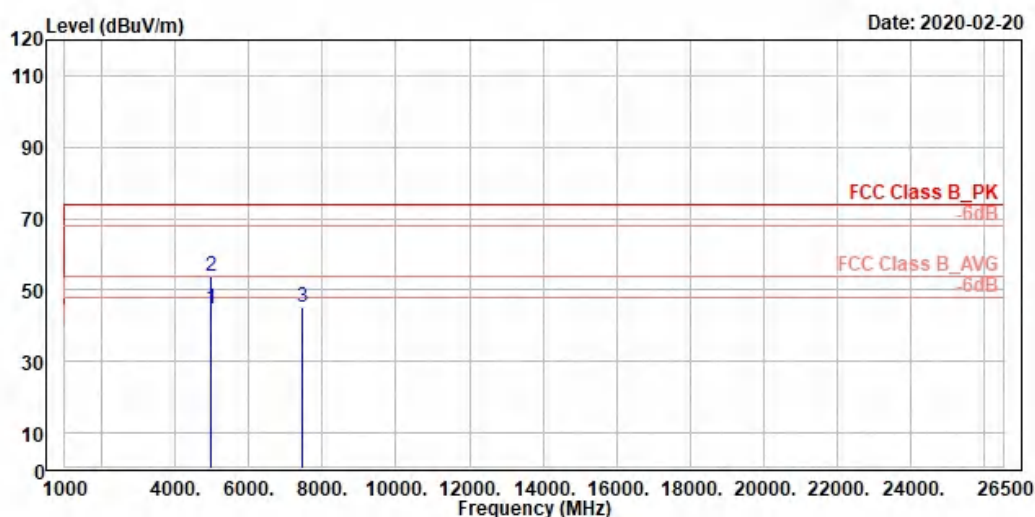
|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1 | 4880.000 | 45.28  | 54.59         | -9.31  | 54.00         | -8.72         | 100  | 115  | Average | horizontal |
| 2 | 4880.000 | 53.70  | 63.01         | -9.31  | 74.00         | -20.30        | 100  | 115  | Peak    | horizontal |
| 3 | 7320.000 | 49.57  | 56.27         | -6.70  | 54.00         | -4.43         | 107  | 64   | Average | horizontal |
| 4 | 7320.000 | 58.06  | 64.76         | -6.70  | 74.00         | -15.94        | 107  | 64   | Peak    | horizontal |



|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 | 4880.000 | 46.85  | 56.16         | -9.31  | 74.00         | -27.15        | 400  | 188  | Peak    | vertical  |
| 2 | 7320.000 | 44.16  | 50.86         | -6.70  | 54.00         | -9.84         | 316  | 360  | Average | vertical  |
| 3 | 7320.000 | 53.26  | 59.96         | -6.70  | 74.00         | -20.74        | 316  | 360  | Peak    | vertical  |



|     | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase  |
|-----|----------|--------|---------------|--------|---------------|---------------|------|------|---------|------------|
|     | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |            |
| 1 ! | 4960.000 | 49.02  | 58.75         | -9.73  | 54.00         | -4.98         | 313  | 66   | Average | horizontal |
| 2   | 4960.000 | 57.85  | 67.58         | -9.73  | 74.00         | -16.15        | 313  | 66   | Peak    | horizontal |
| 3   | 7440.000 | 44.80  | 52.29         | -7.49  | 54.00         | -9.20         | 100  | 64   | Average | horizontal |
| 4   | 7440.000 | 54.07  | 61.56         | -7.49  | 74.00         | -19.93        | 100  | 64   | Peak    | horizontal |

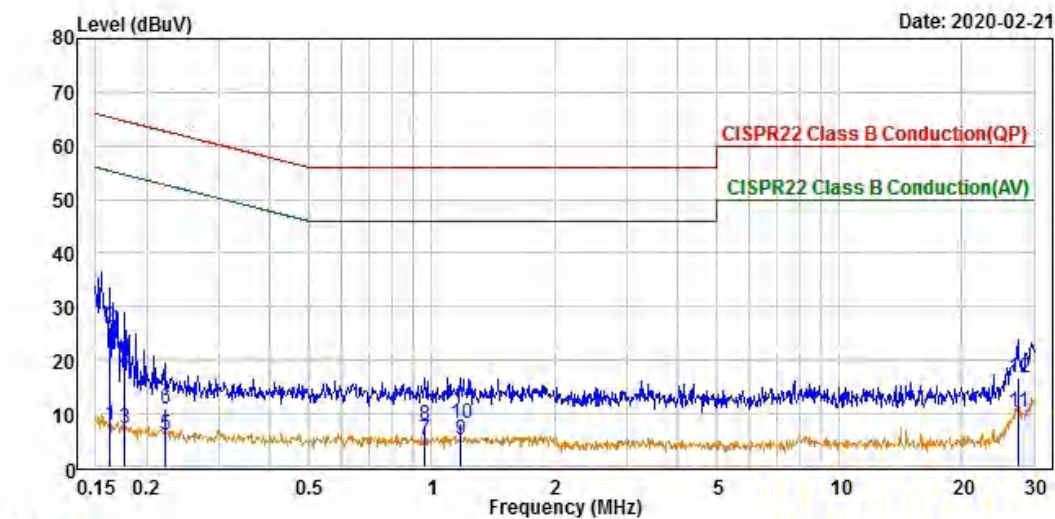


|   | Freq     | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|---------------|--------|---------------|---------------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV          | dB/m   | dBuV/m        | dB            | cm   | deg  |         |           |
| 1 | 4960.000 | 44.52  | 54.25         | -9.73  | 54.00         | -9.48         | 343  | 336  | Average | vertical  |
| 2 | 4960.000 | 53.91  | 63.64         | -9.73  | 74.00         | -20.09        | 343  | 336  | Peak    | vertical  |
| 3 | 7440.000 | 45.22  | 52.71         | -7.49  | 74.00         | -28.78        | 308  | 360  | Peak    | vertical  |

## Spurious Emissions, AC Mains

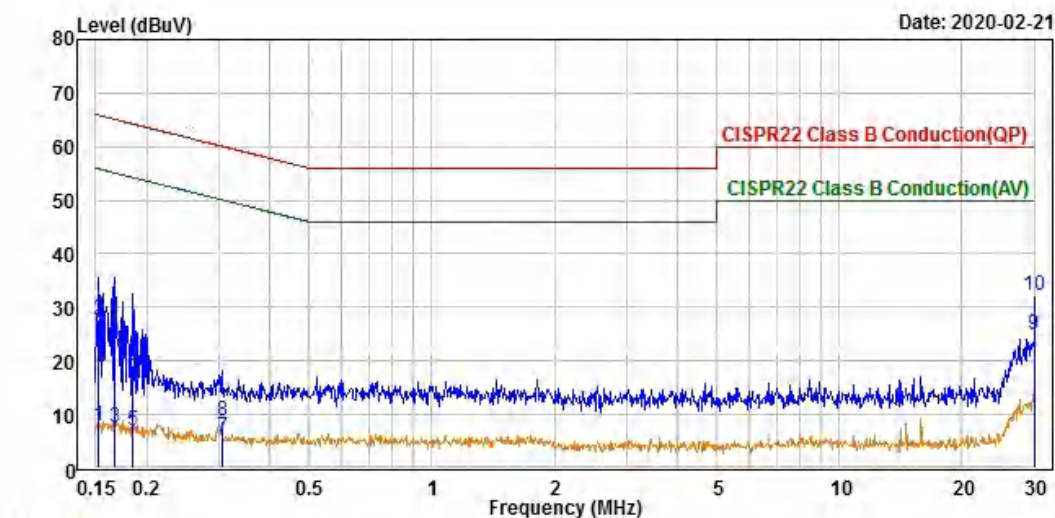


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Trace: 1

|    | Freq  | Level | Read Level | Factor | Limit Line | Over Limit | Remark  | Pol/Phase |
|----|-------|-------|------------|--------|------------|------------|---------|-----------|
|    | MHz   | dBuV  | dBuV       | dB     | dBuV       | dB         |         |           |
| 1  | 0.16  | 7.83  | -1.78      | 9.61   | 55.34      | -47.51     | Average | line1     |
| 2  | 0.16  | 26.19 | 16.58      | 9.61   | 65.34      | -39.15     | QP      | line1     |
| 3  | 0.18  | 7.21  | -2.40      | 9.61   | 54.63      | -47.42     | Average | line1     |
| 4  | 0.18  | 17.98 | 8.37       | 9.61   | 64.63      | -46.65     | QP      | line1     |
| 5  | 0.22  | 6.17  | -3.44      | 9.61   | 52.77      | -46.60     | Average | line1     |
| 6  | 0.22  | 10.85 | 1.24       | 9.61   | 62.77      | -51.92     | QP      | line1     |
| 7  | 0.96  | 5.08  | -4.54      | 9.62   | 46.00      | -40.92     | Average | line1     |
| 8  | 0.96  | 7.93  | -1.69      | 9.62   | 56.00      | -48.07     | QP      | line1     |
| 9  | 1.18  | 5.09  | -4.53      | 9.62   | 46.00      | -40.91     | Average | line1     |
| 10 | 1.18  | 8.20  | -1.42      | 9.62   | 56.00      | -47.80     | QP      | line1     |
| 11 | 27.43 | 10.30 | 0.53       | 9.77   | 50.00      | -39.70     | Average | line1     |
| 12 | 27.43 | 16.71 | 6.94       | 9.77   | 60.00      | -43.29     | QP      | line1     |



Trace: 1

|    | Freq  | Level | Read  | Limit | Over  |                |           |  |
|----|-------|-------|-------|-------|-------|----------------|-----------|--|
|    | MHz   | dBuV  | Level | Line  | Limit | Remark         | Pol/Phase |  |
|    | MHz   | dBuV  | dB    | dBuV  | dB    |                |           |  |
| 1  | 0.15  | 7.97  | -1.65 | 9.62  | 55.88 | -47.91 Average | neutral   |  |
| 2  | 0.15  | 27.77 | 18.15 | 9.62  | 65.88 | -38.11 QP      | neutral   |  |
| 3  | 0.17  | 7.63  | -1.99 | 9.62  | 55.13 | -47.50 Average | neutral   |  |
| 4  | 0.17  | 23.33 | 13.71 | 9.62  | 65.13 | -41.80 QP      | neutral   |  |
| 5  | 0.18  | 7.10  | -2.52 | 9.62  | 54.30 | -47.20 Average | neutral   |  |
| 6  | 0.18  | 19.27 | 9.65  | 9.62  | 64.30 | -45.03 QP      | neutral   |  |
| 7  | 0.31  | 5.85  | -3.77 | 9.62  | 50.08 | -44.23 Average | neutral   |  |
| 8  | 0.31  | 8.86  | -0.76 | 9.62  | 60.08 | -51.22 QP      | neutral   |  |
| 9  | 30.00 | 24.95 | 15.11 | 9.84  | 50.00 | -25.05 Average | neutral   |  |
| 10 | 30.00 | 32.20 | 22.36 | 9.84  | 60.00 | -27.80 QP      | neutral   |  |