

Appendix B: Test Results of FCC 15B & ICES-003

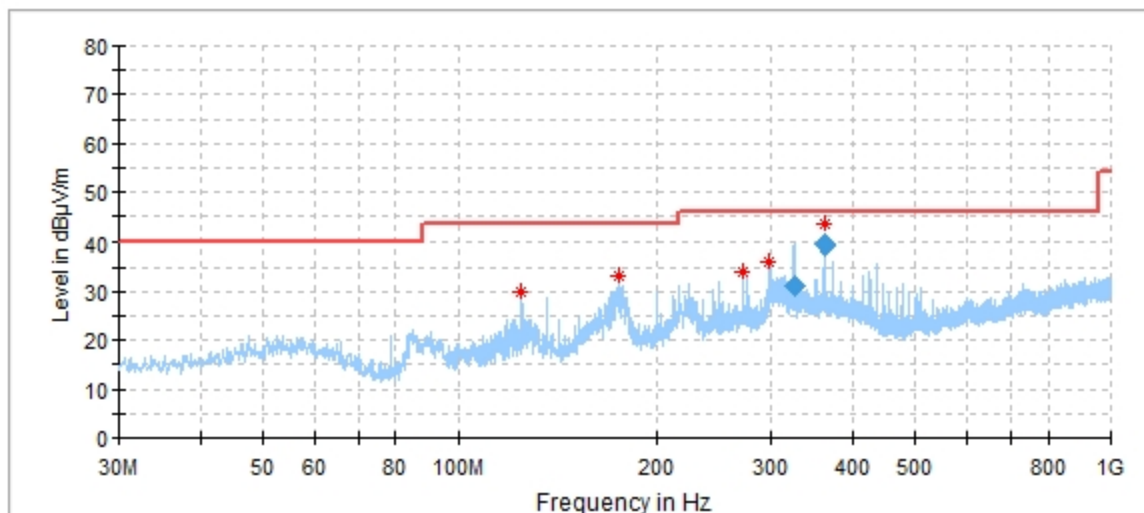
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Appendix B.1: Test Plots of Radiated Emission, Below 1GHz

Print by USB +Print by RJ45 + NFC mode

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Model: | LabelWriter 5XL |
| Order No: | 168292741 Item |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | 3m Chamber |



Critical Freqs

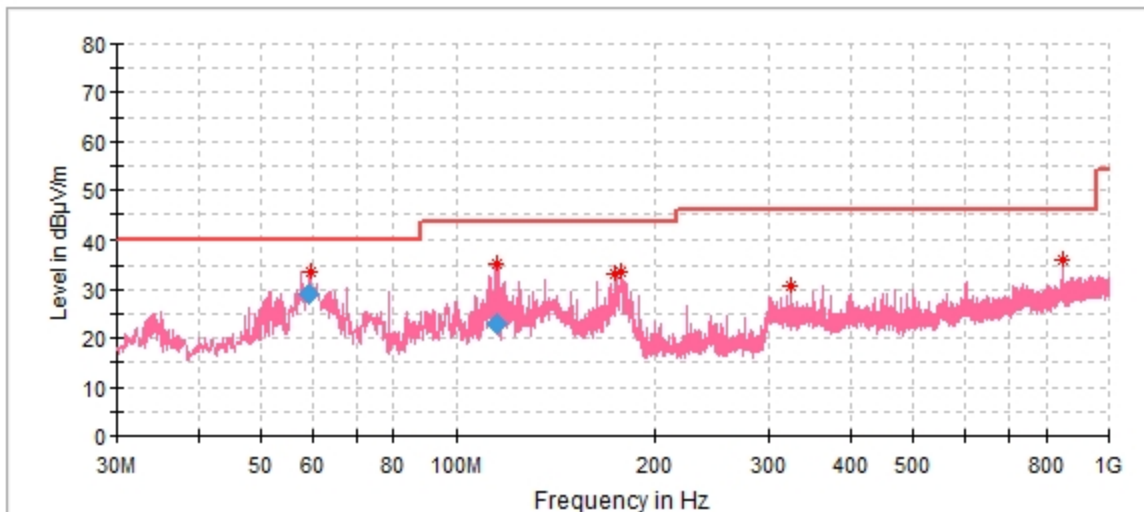
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 124.963000 | 30.07 | 43.50 | 13.43 | 100.0 | H | 189.0 | 19 |
| 174.918000 | 33.29 | 43.50 | 10.21 | 100.0 | H | 189.0 | 21 |
| 271.142000 | 33.87 | 46.00 | 12.13 | 100.0 | H | 104.0 | 20 |
| 298.302000 | 36.23 | 46.00 | 9.77 | 100.0 | H | 150.0 | 20 |
| 325.402000 | 31.77 | 46.00 | 14.23 | 105.0 | H | 244.0 | 22 |
| 362.302000 | 43.42 | 46.00 | 2.58 | 100.0 | H | 123.0 | 23 |

Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 325.402000 | 31.37 | 46.00 | 14.63 | 1000.0 | 120.000 | 105.0 | H | 244.0 | 22 |
| 362.302000 | 39.55 | 46.00 | 6.45 | 1000.0 | 120.000 | 100.0 | H | 123.0 | 23 |

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Model: | LabelWriter 5XL |
| Order No: | 168292741 Item |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | 3m Chamber |



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 59.488000 | 33.76 | 40.00 | 6.24 | 100.0 | V | 86.0 | 21 |
| 115.146000 | 35.20 | 43.50 | 8.30 | 153.0 | V | 274.0 | 19 |
| 174.239000 | 33.34 | 43.50 | 10.16 | 100.0 | V | 323.0 | 21 |
| 177.731000 | 33.62 | 43.50 | 9.88 | 100.0 | V | 292.0 | 20 |
| 324.977000 | 30.71 | 46.00 | 15.29 | 100.0 | V | 279.0 | 22 |
| 851.590000 | 36.18 | 46.00 | 9.82 | 100.0 | V | 0.0 | 31 |

Final Result

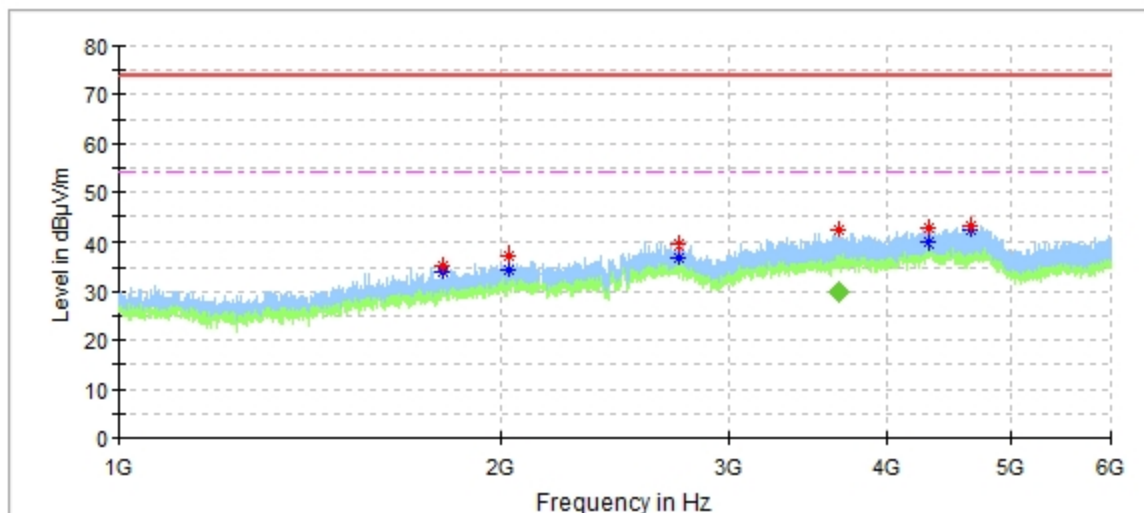
| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 59.428000 | 29.09 | 40.00 | 10.91 | 1000.0 | 120.000 | 105.0 | V | 292.0 | 21 |
| 115.146000 | 23.00 | 43.50 | 20.50 | 1000.0 | 120.000 | 153.0 | V | 274.0 | 19 |

Appendix B.2: Test Plots of Radiated Emission, Above 1GHz

Print by USB +Print by RJ45 + NFC mode

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Model: | LabelWriter 5XL |
| Order No: | 168292741 Item |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | 3m Chamber |



Critical Freqs

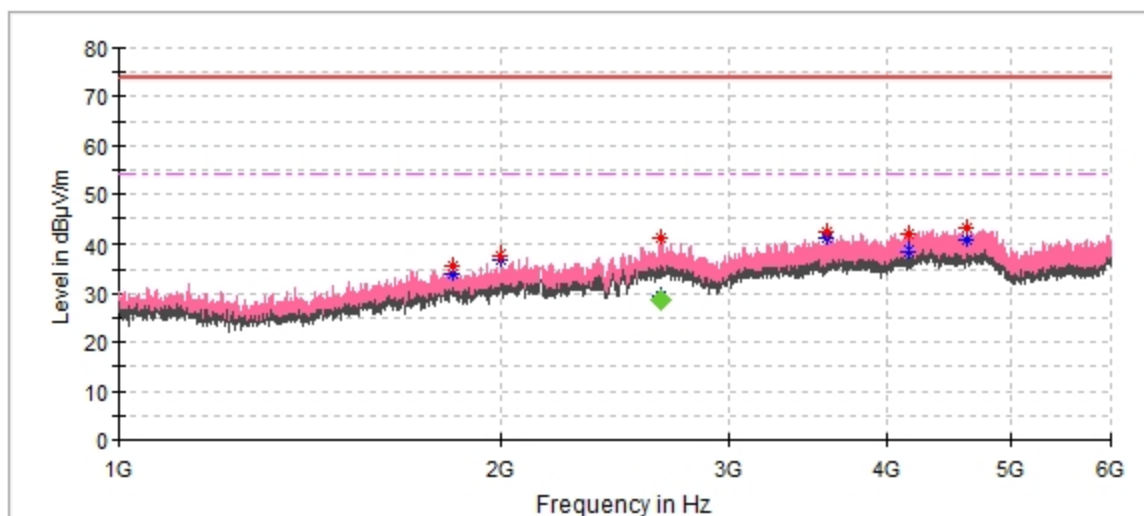
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1795.000000 | --- | 34.15 | 54.00 | 19.85 | 100.0 | H | 247.0 | -9 |
| 1795.000000 | 35.43 | --- | 74.00 | 38.57 | 100.0 | H | 247.0 | -9 |
| 2028.500000 | 37.23 | --- | 74.00 | 36.77 | 100.0 | H | 139.0 | -7 |
| 2028.500000 | --- | 34.57 | 54.00 | 19.43 | 100.0 | H | 139.0 | -7 |
| 2747.500000 | 39.21 | --- | 74.00 | 34.79 | 100.0 | H | 348.0 | -4 |
| 2748.000000 | --- | 37.06 | 54.00 | 16.94 | 100.0 | H | 348.0 | -4 |
| 3662.000000 | 42.32 | --- | 74.00 | 31.68 | 100.0 | H | 18.0 | 0 |
| 3662.800000 | --- | 29.97 | 54.00 | 24.03 | 100.0 | H | 234.0 | 0 |
| 4318.500000 | --- | 39.97 | 54.00 | 14.03 | 100.0 | H | 83.0 | 2 |
| 4319.500000 | 42.80 | --- | 74.00 | 31.20 | 100.0 | H | 308.0 | 2 |
| 4658.500000 | --- | 42.41 | 54.00 | 11.59 | 100.0 | H | 284.0 | 2 |
| 4658.500000 | 43.04 | --- | 74.00 | 30.96 | 100.0 | H | 284.0 | 2 |

Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 3662.800000 | --- | 29.91 | 54.00 | 24.09 | 100.0 | H | 234.0 | 0 |

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Model: | LabelWriter 5XL |
| Order No: | 168292741 Item |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | 3m Chamber |



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1830.500000 | --- | 34.24 | 54.00 | 19.76 | 100.0 | V | 191.0 | -9 |
| 1830.500000 | 35.51 | --- | 74.00 | 38.49 | 100.0 | V | 191.0 | -9 |
| 1998.000000 | 37.94 | --- | 74.00 | 36.06 | 100.0 | V | 154.0 | -7 |
| 1998.000000 | --- | 36.85 | 54.00 | 17.15 | 100.0 | V | 154.0 | -7 |
| 2655.500000 | 40.88 | --- | 74.00 | 33.12 | 100.0 | V | 159.0 | -3 |
| 2659.500000 | --- | 29.33 | 54.00 | 24.67 | 100.0 | V | 155.0 | -3 |
| 3592.500000 | --- | 41.12 | 54.00 | 12.88 | 100.0 | V | 291.0 | -1 |
| 3592.500000 | 42.10 | --- | 74.00 | 31.90 | 100.0 | V | 291.0 | -1 |
| 4161.500000 | 42.02 | --- | 74.00 | 31.98 | 100.0 | V | 54.0 | 1 |
| 4161.500000 | --- | 38.51 | 54.00 | 15.49 | 100.0 | V | 54.0 | 1 |
| 4616.500000 | --- | 40.66 | 54.00 | 13.34 | 100.0 | V | 332.0 | 2 |
| 4616.500000 | 42.93 | --- | 74.00 | 31.07 | 100.0 | V | 332.0 | 2 |

Final Result

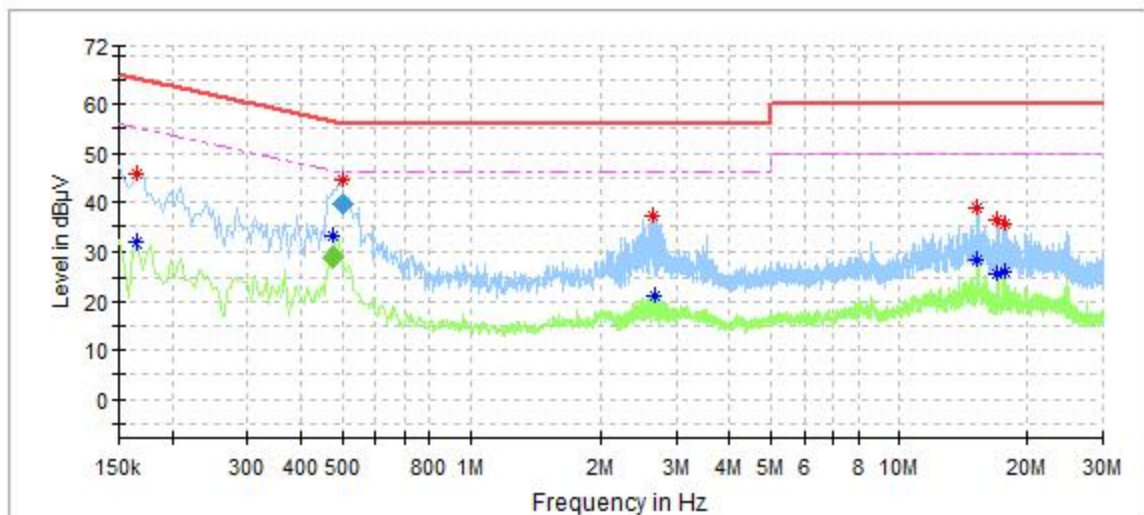
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2659.500000 | --- | 28.72 | 54.00 | 25.28 | 100.0 | V | 155.0 | -3 |

Appendix B.3: Test Plots of Conducted Emissions on AC Mains

Print by RJ45 + NFC mode

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Order No.: | 168292741 Item |
| Model: | LabelWriter 5XL |
| Test Mode: | ON |
| Test Voltage: | AC 110V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | SR1 |



Critical Freqs

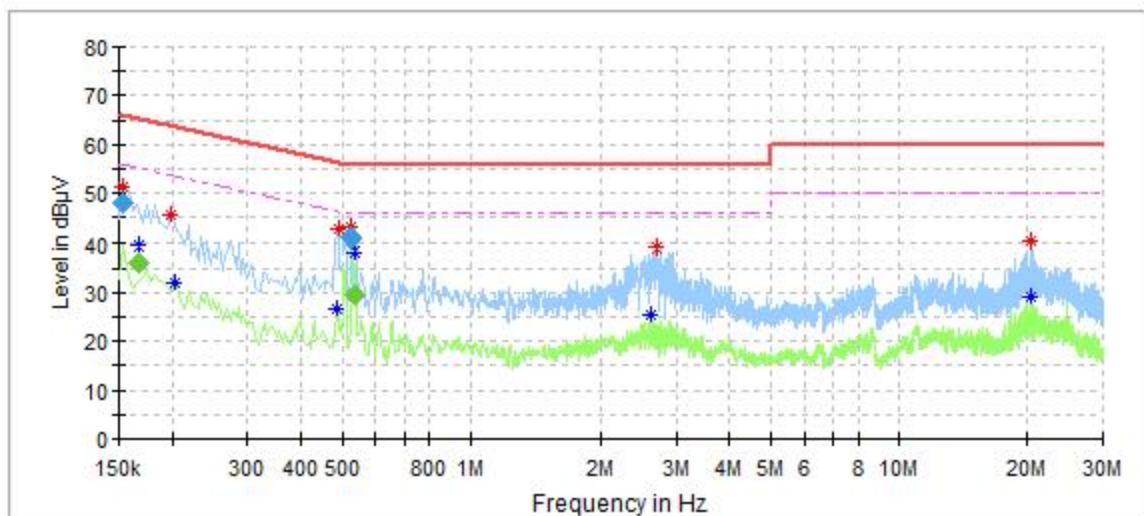
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.166000 | --- | 31.66 | 55.16 | 23.50 | L1 | 9.6 |
| 0.166000 | 45.90 | --- | 65.16 | 19.26 | L1 | 9.6 |
| 0.476500 | --- | 32.95 | 46.17 | 13.22 | L1 | 9.7 |
| 0.500000 | 44.31 | --- | 56.17 | 11.86 | L1 | 9.7 |
| 2.652000 | 37.22 | --- | 56.00 | 18.78 | L1 | 9.8 |
| 2.664000 | --- | 21.31 | 46.00 | 24.69 | L1 | 9.8 |
| 15.228000 | 38.61 | --- | 60.00 | 21.39 | L1 | 10.3 |
| 15.232000 | --- | 28.32 | 50.00 | 21.68 | L1 | 10.3 |
| 17.004000 | --- | 25.69 | 50.00 | 24.31 | L1 | 10.3 |
| 17.004000 | 36.12 | --- | 60.00 | 23.88 | L1 | 10.3 |
| 17.596000 | --- | 25.85 | 50.00 | 24.15 | L1 | 10.4 |
| 17.608000 | 35.63 | --- | 60.00 | 24.37 | L1 | 10.4 |

Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.476500 | --- | 29.05 | 46.40 | 17.34 | 200.0 | 9.000 | L1 | 9.7 |
| 0.500000 | 39.57 | --- | 56.00 | 16.43 | 200.0 | 9.000 | L1 | 9.7 |

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Order No.: | 168292741 Item |
| Model: | LabelWriter 5XL |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | SR1 |



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.154000 | 51.43 | --- | 65.78 | 14.36 | N | 9.6 |
| 0.167500 | --- | 39.19 | 55.78 | 16.59 | N | 9.6 |
| 0.198000 | 45.39 | --- | 63.69 | 18.31 | N | 9.6 |
| 0.202000 | --- | 31.87 | 53.53 | 21.66 | N | 9.6 |
| 0.486000 | --- | 26.66 | 46.24 | 19.57 | N | 9.7 |
| 0.490000 | 42.54 | --- | 56.17 | 13.63 | N | 9.7 |
| 0.522500 | 43.13 | --- | 56.00 | 12.87 | N | 9.7 |
| 0.534500 | --- | 37.96 | 46.00 | 8.04 | N | 9.7 |
| 2.628000 | --- | 25.58 | 46.00 | 20.42 | N | 9.8 |
| 2.704000 | 38.81 | --- | 56.00 | 17.19 | N | 9.8 |
| 20.304000 | --- | 28.98 | 50.00 | 21.02 | N | 10.5 |
| 20.340000 | 40.33 | --- | 60.00 | 19.67 | N | 10.5 |

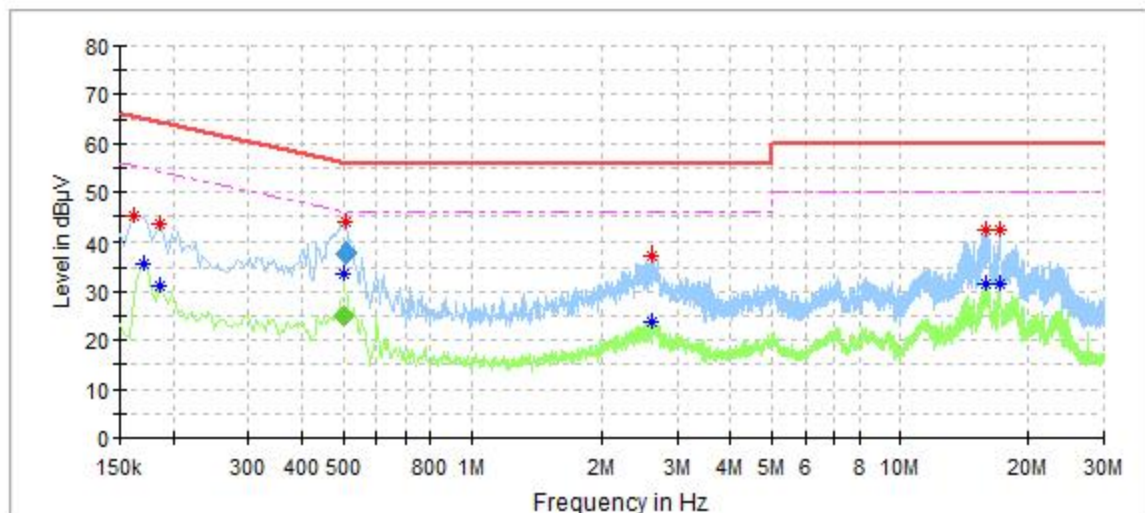
Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.154000 | 47.93 | --- | 65.78 | 17.85 | 200.0 | 9.000 | N | 9.6 |
| 0.167500 | --- | 36.22 | 55.08 | 18.86 | 200.0 | 9.000 | N | 9.6 |
| 0.522500 | 41.00 | --- | 56.00 | 15.00 | 200.0 | 9.000 | N | 9.7 |
| 0.534500 | --- | 29.64 | 46.00 | 16.36 | 200.0 | 9.000 | N | 9.7 |

Print by USB + NFC mode

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Order No.: | 168292741 Item |
| Model: | LabelWriter 5XL |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | SR1 |



Critical_Freqs

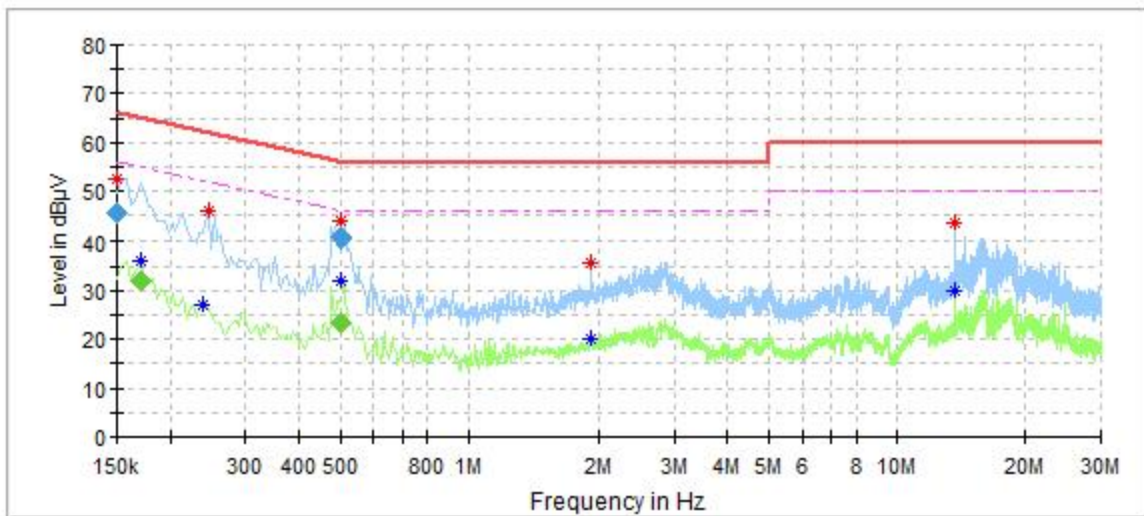
| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.162000 | 45.12 | --- | 65.36 | 20.24 | L1 | 9.6 |
| 0.170000 | --- | 35.54 | 54.96 | 19.42 | L1 | 9.6 |
| 0.186000 | 43.43 | --- | 64.21 | 20.78 | L1 | 9.6 |
| 0.186000 | --- | 31.14 | 54.21 | 23.07 | L1 | 9.6 |
| 0.500000 | --- | 33.73 | 46.00 | 12.27 | L1 | 9.7 |
| 0.508000 | 44.00 | --- | 56.00 | 12.00 | L1 | 9.7 |
| 2.608000 | --- | 23.84 | 46.00 | 22.16 | L1 | 9.8 |
| 2.612000 | 37.26 | --- | 56.00 | 18.74 | L1 | 9.8 |
| 15.880000 | 42.39 | --- | 60.00 | 17.61 | L1 | 10.3 |
| 15.892000 | --- | 31.69 | 50.00 | 18.31 | L1 | 10.3 |
| 17.040000 | --- | 31.70 | 50.00 | 18.30 | L1 | 10.3 |
| 17.048000 | 42.05 | --- | 60.00 | 17.95 | L1 | 10.3 |

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.500000 | --- | 25.12 | 46.00 | 20.88 | 200.0 | 9.000 | L1 | 9.7 |
| 0.508000 | 37.83 | --- | 56.00 | 18.17 | 200.0 | 9.000 | L1 | 9.7 |

EUT Information

| | |
|---------------|-----------------|
| EUT Name: | Label maker |
| Order No.: | 168292741 Item |
| Model: | LabelWriter 5XL |
| Test Mode: | ON |
| Test Voltage: | AC 120V/60Hz |
| Test By: | Ouyang Wang |
| Review By: | Gary Chen |
| Remark: | SR1 |



Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|------|------------|
| 0.150000 | 52.62 | --- | 65.57 | 12.95 | N | 9.6 |
| 0.171500 | --- | 36.06 | 55.57 | 19.50 | N | 9.6 |
| 0.238000 | --- | 27.25 | 52.17 | 24.92 | N | 9.6 |
| 0.246000 | 46.15 | --- | 61.89 | 15.74 | N | 9.6 |
| 0.500000 | --- | 31.99 | 46.00 | 14.01 | N | 9.7 |
| 0.504000 | 43.81 | --- | 56.00 | 12.19 | N | 9.7 |
| 1.920000 | --- | 19.96 | 46.00 | 26.04 | N | 9.7 |
| 1.920000 | 35.74 | --- | 56.00 | 20.26 | N | 9.7 |
| 13.624000 | --- | 30.02 | 50.00 | 19.98 | N | 10.3 |
| 13.624000 | 43.39 | --- | 60.00 | 16.61 | N | 10.3 |

Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.150000 | 45.36 | --- | 66.00 | 20.64 | 200.0 | 9.000 | N | 9.6 |
| 0.171500 | --- | 32.17 | 54.89 | 22.72 | 200.0 | 9.000 | N | 9.6 |
| 0.500000 | --- | 23.41 | 46.00 | 22.59 | 200.0 | 9.000 | N | 9.7 |
| 0.504000 | 40.72 | --- | 56.00 | 15.28 | 200.0 | 9.000 | N | 9.7 |