

# Test Report No.50105899 001

## Appendix D: Radiated and Mains Spurious Emission Data

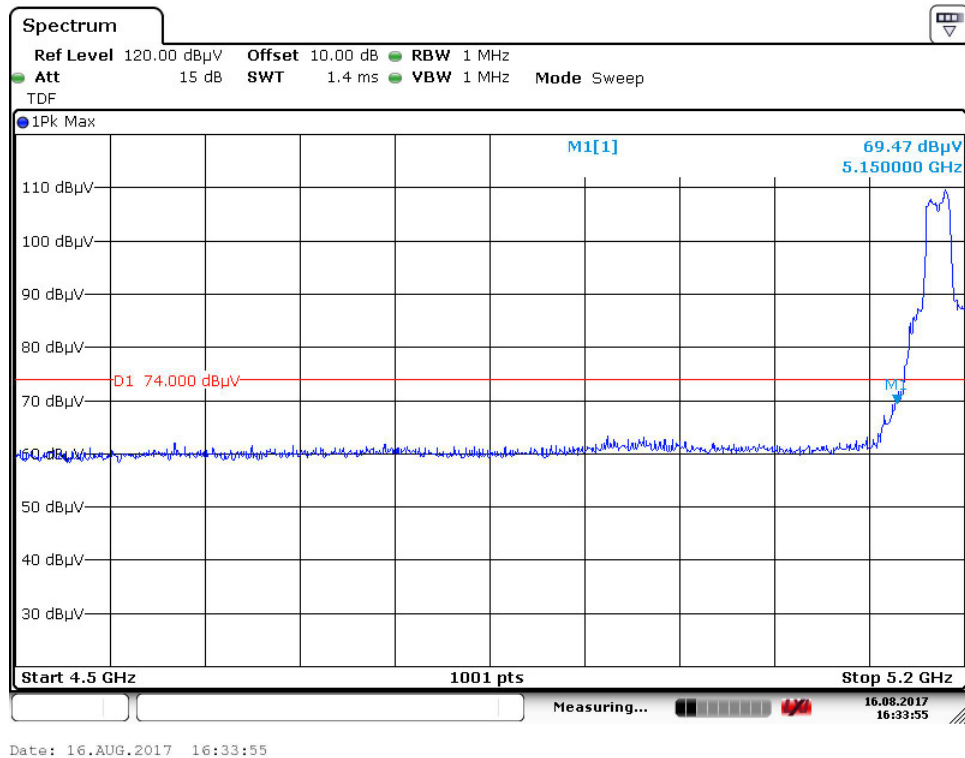
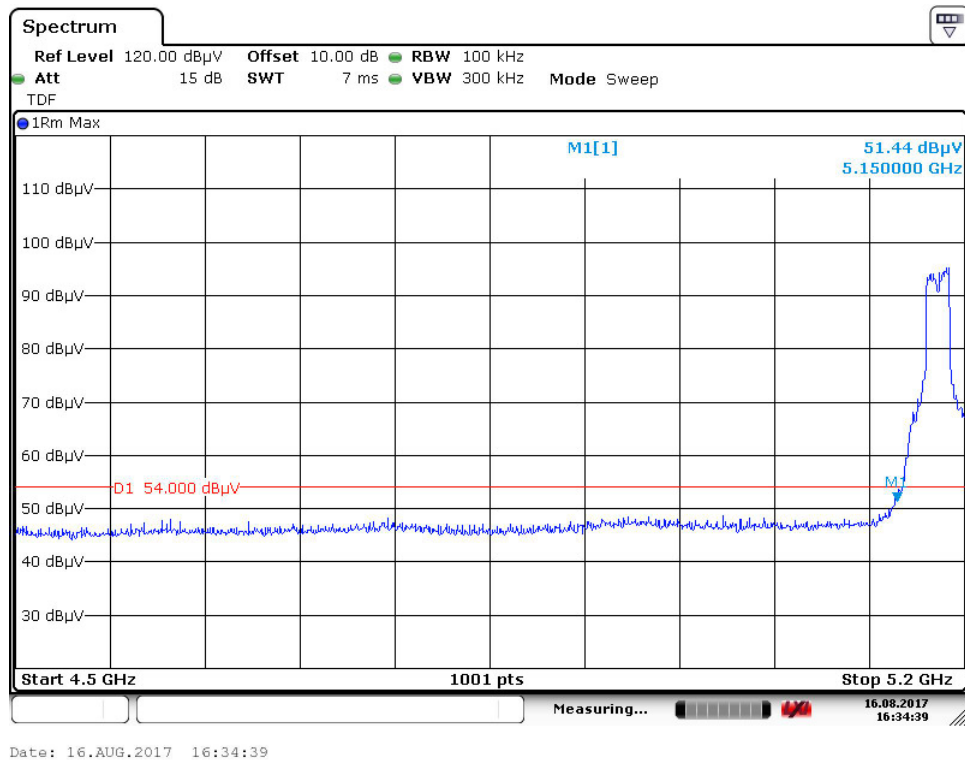
(File: 50105899AppendixD)

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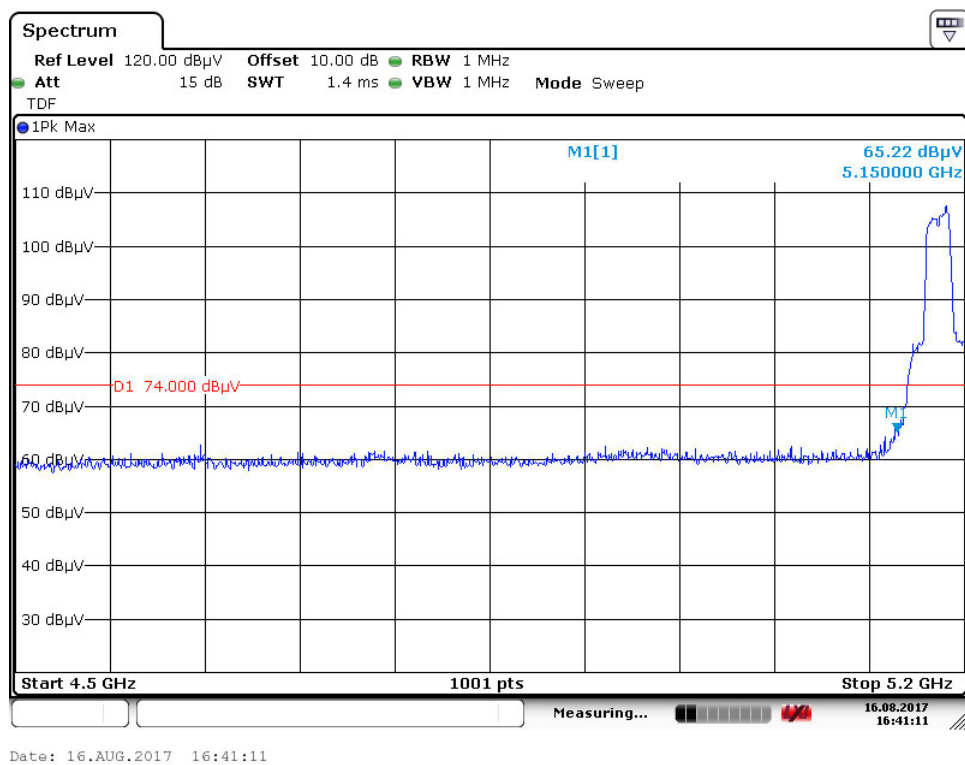
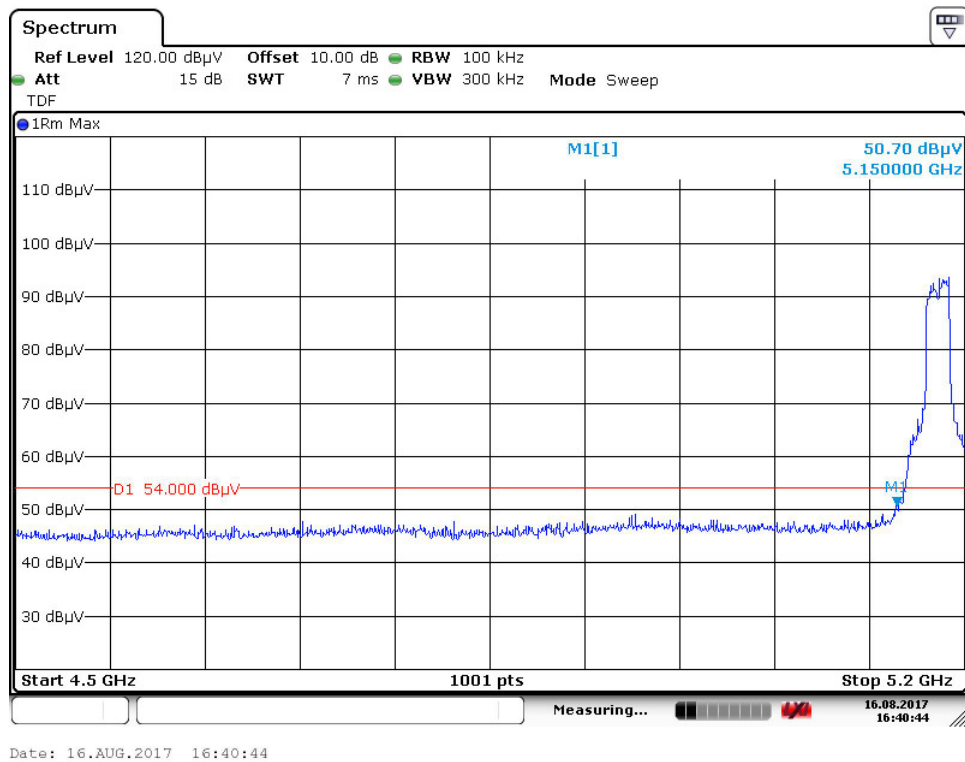
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# Radiated Bandedge 11a HT20

Low Channel (Hor) 5180

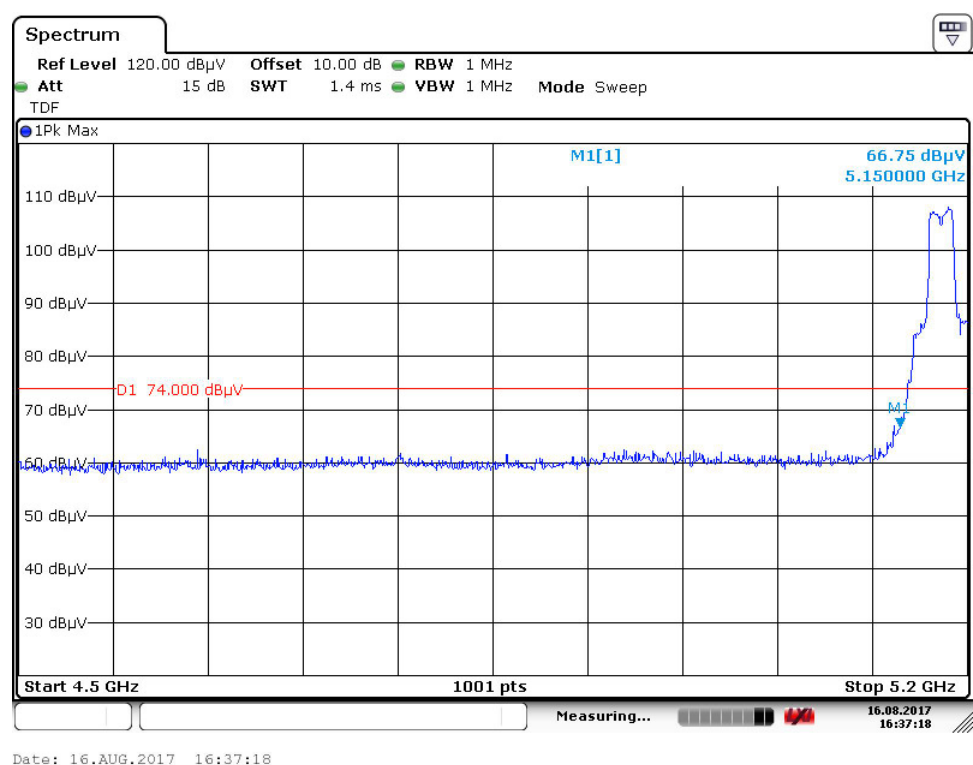
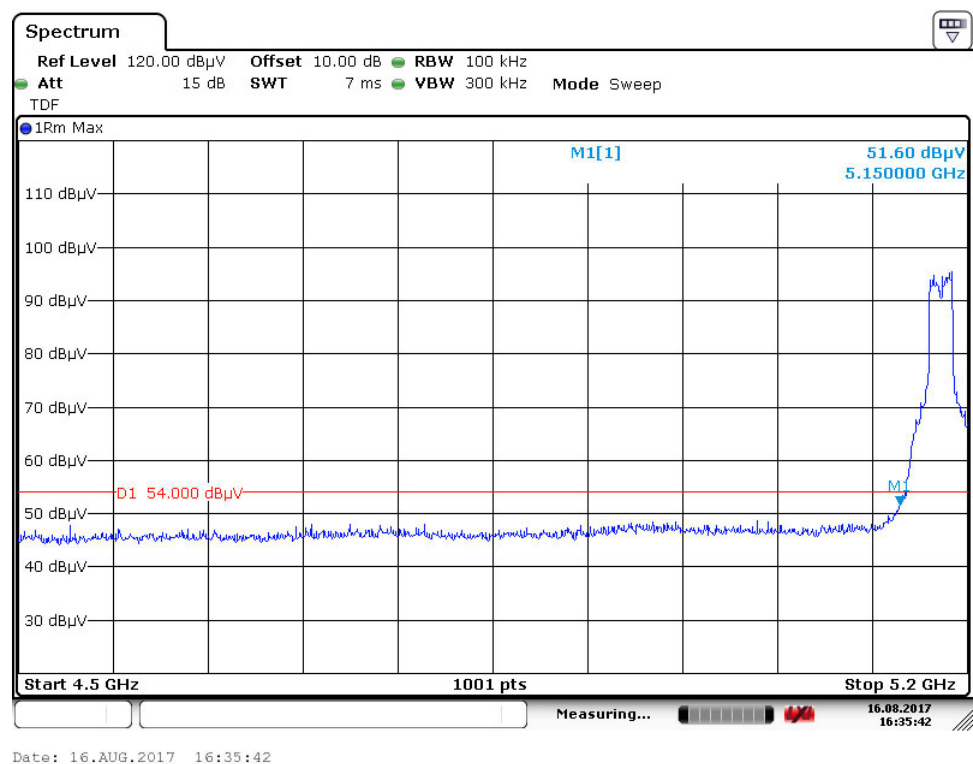


## Low Channel (Ver) 5180

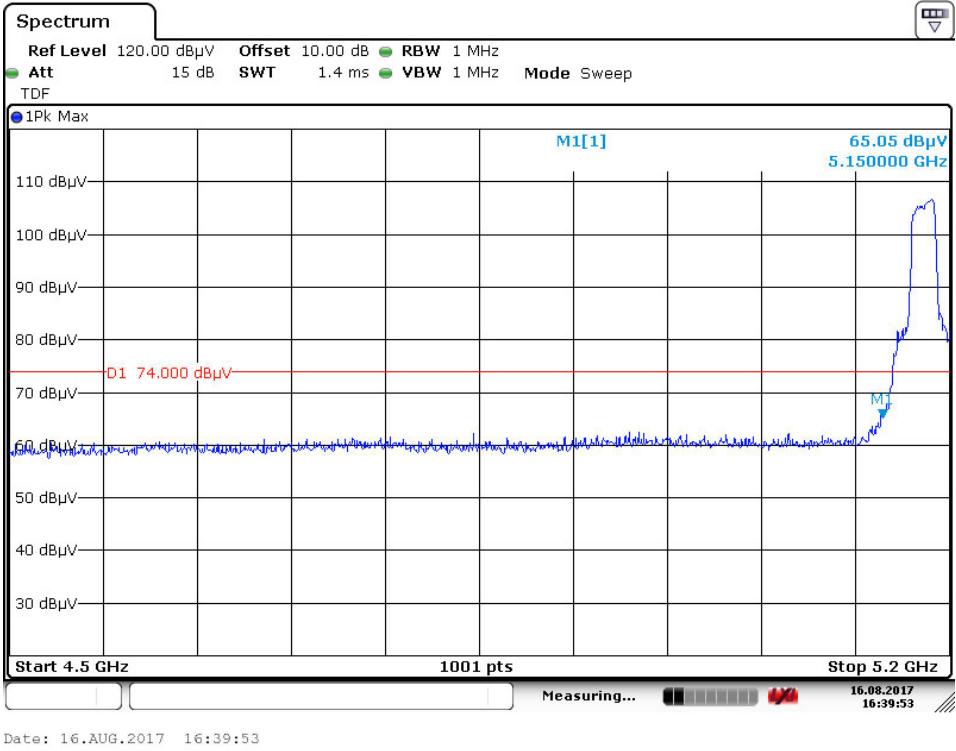
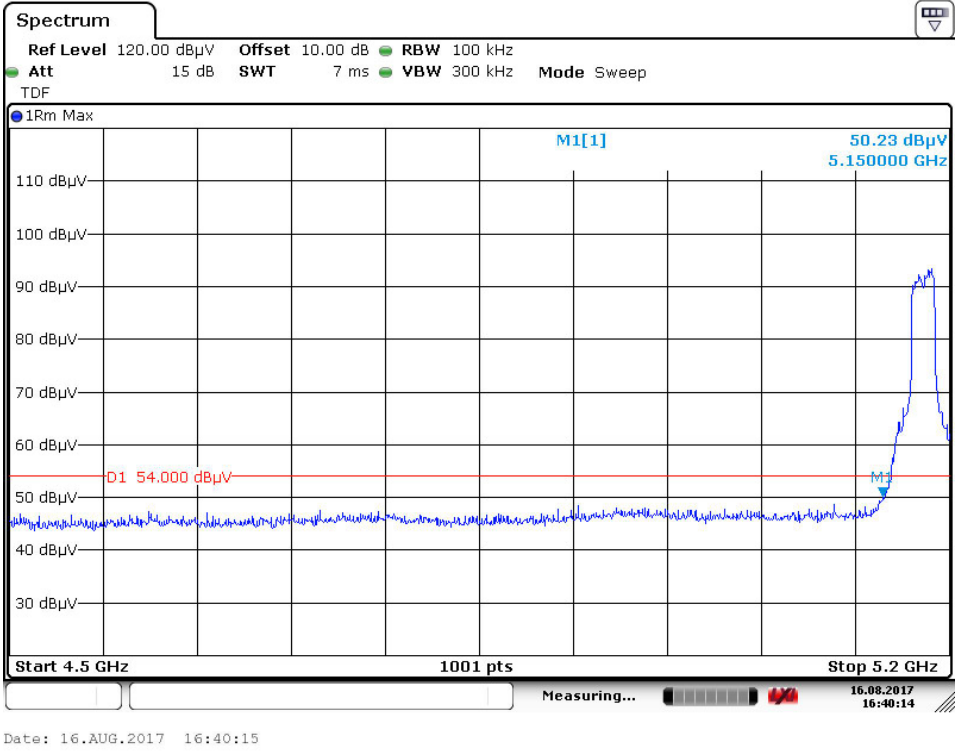


# Radiated Bandedge 11ac 20

## Low Channel (Hor) 5190



Low Channel (Ver) 5190



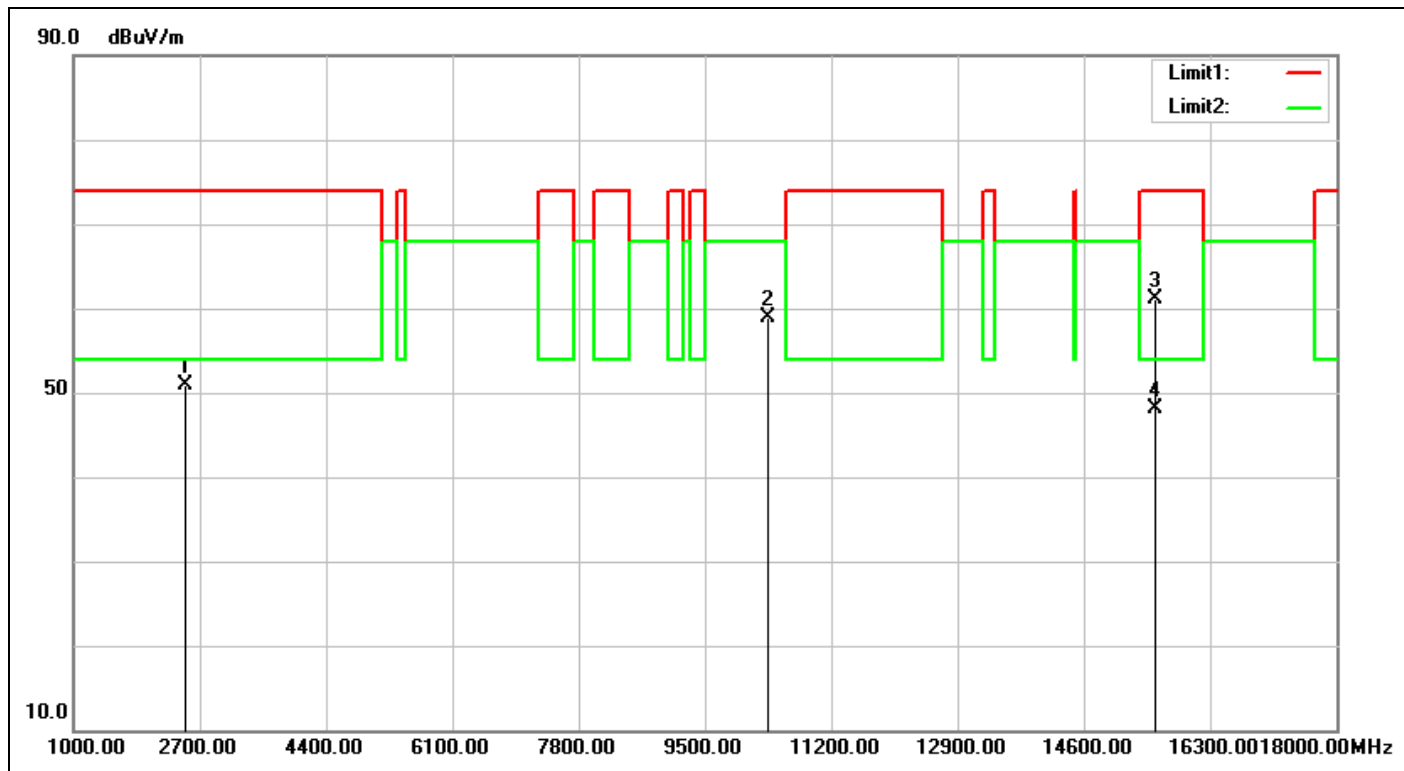
# Spurious Emissions, TX Mode, 1-18G , 5150-5250MHz



**TUV Rheinland Taiwan Ltd.**

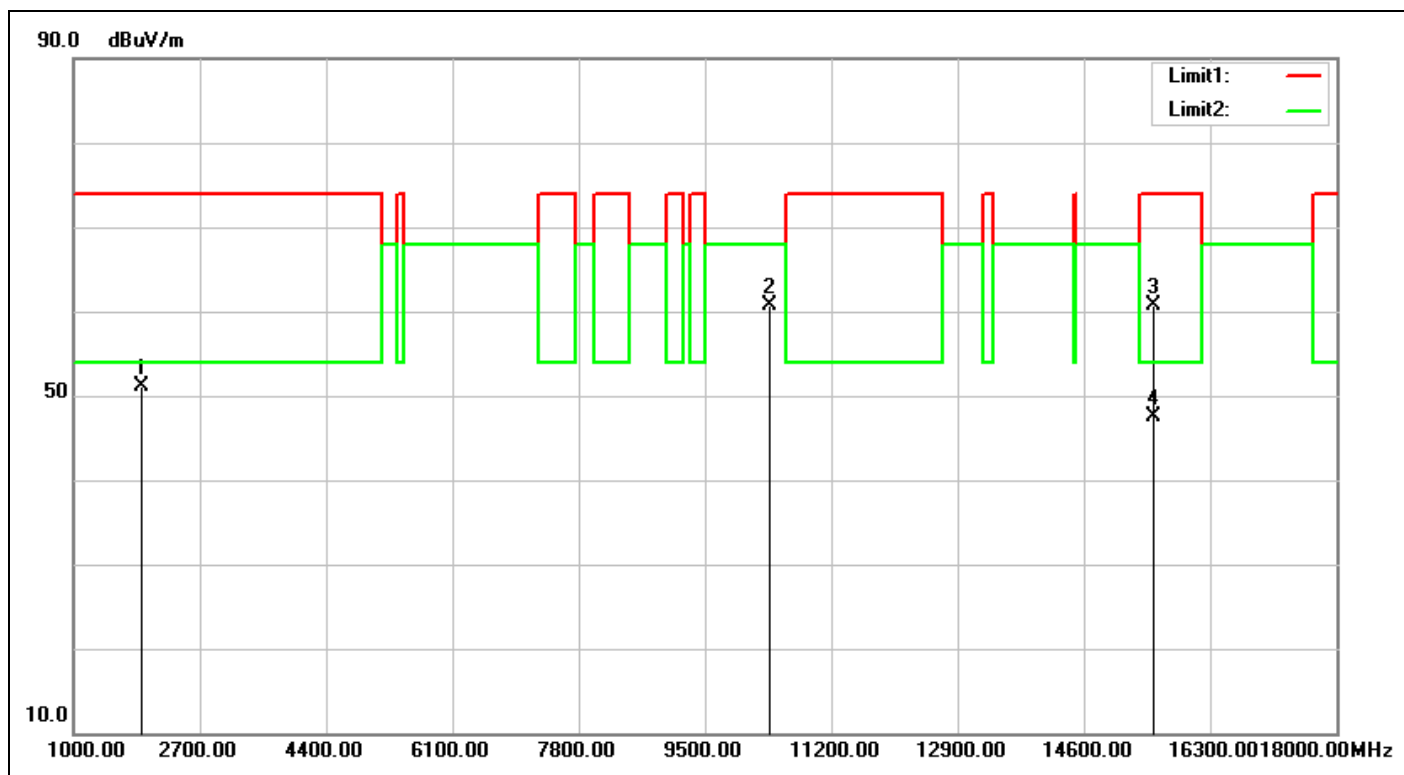
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

Tel:+886-2172-7000 fax:+886-2528-0018



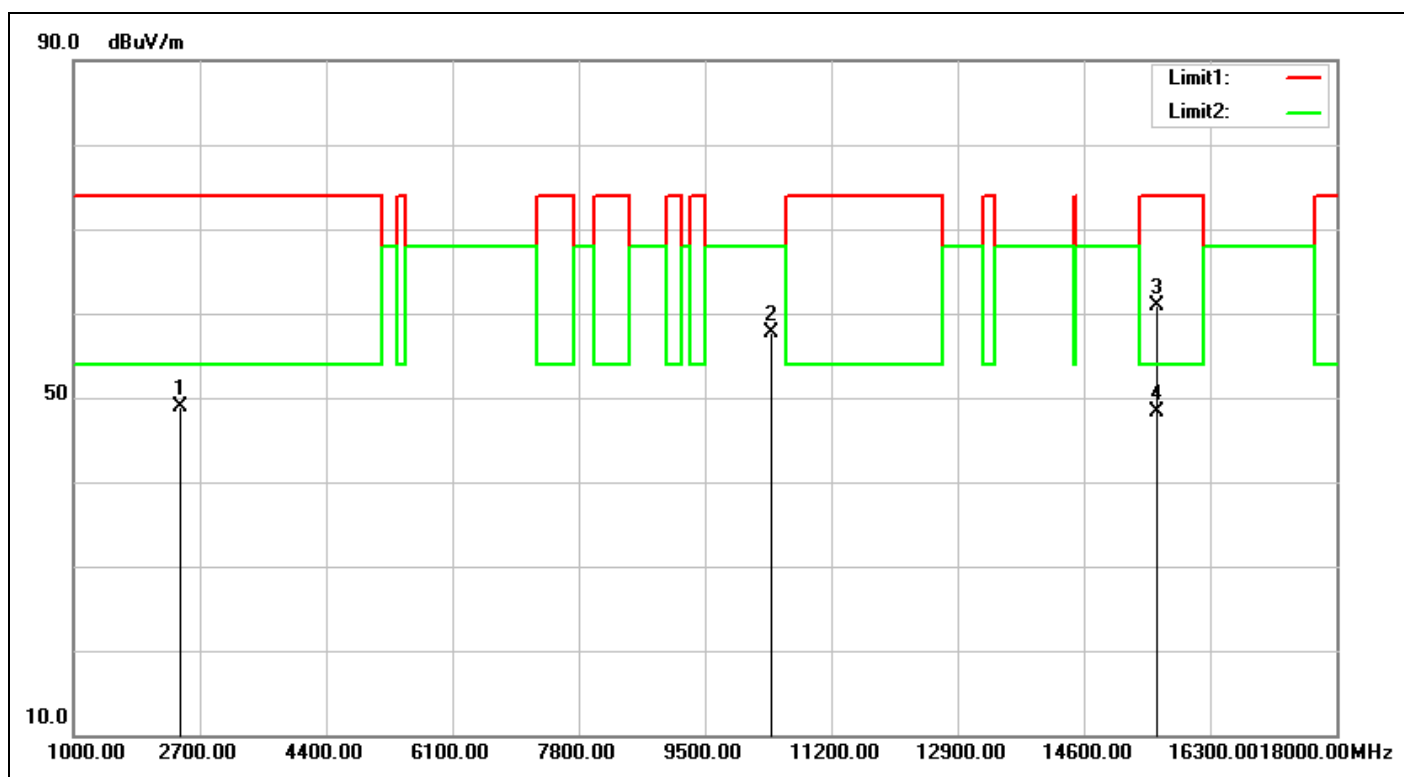
|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b> | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/17 10:03:18</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b>  | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5180-TX</b>        |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2513.000        | -3.99         | 54.97          | 50.98          | 74.00          | -23.02      | peak | 100         | 178           |        |
| 2   | 10360.000       | 10.22         | 48.69          | 58.91          | 68.00          | -9.09       | peak | 100         | 224           |        |
| 3   | 15540.000       | 17.25         | 43.88          | 61.13          | 74.00          | -12.87      | peak | 100         | 200           |        |
| 4   | 15540.000       | 17.25         | 30.95          | 48.20          | 54.00          | -5.80       | AVG  | 100         | 200           |        |



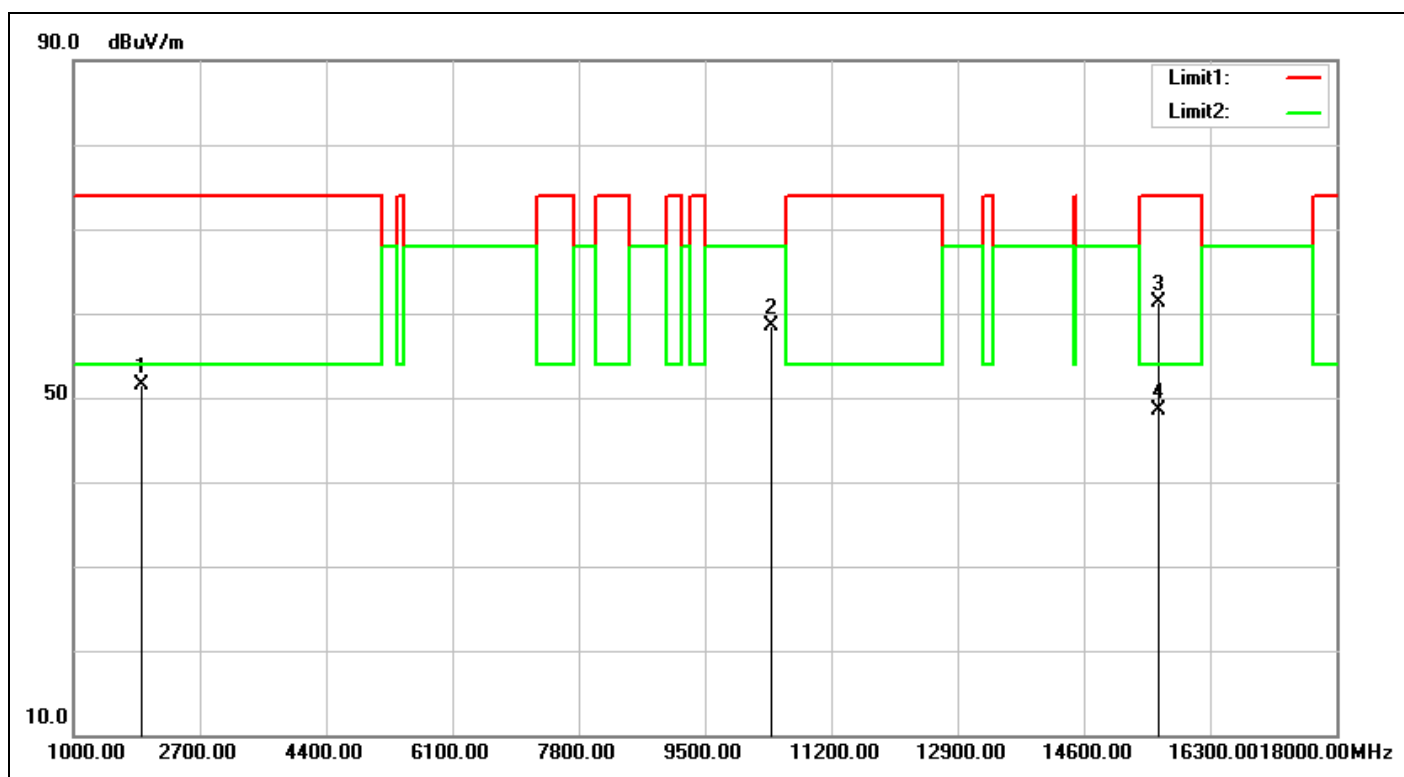
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:04:21</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5180-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 1918.000        | -4.83         | 55.92          | 51.09          | 74.00          | -22.91      | peak | 100         | 312           |        |
| 2   | 10360.000       | 10.22         | 50.39          | 60.61          | 68.00          | -7.39       | peak | 100         | 67            |        |
| 3   | 15540.000       | 17.25         | 43.39          | 60.64          | 74.00          | -13.36      | peak | 100         | 60            |        |
| 4   | 15540.000       | 17.25         | 30.35          | 47.60          | 54.00          | -6.40       | AVG  | 100         | 60            |        |



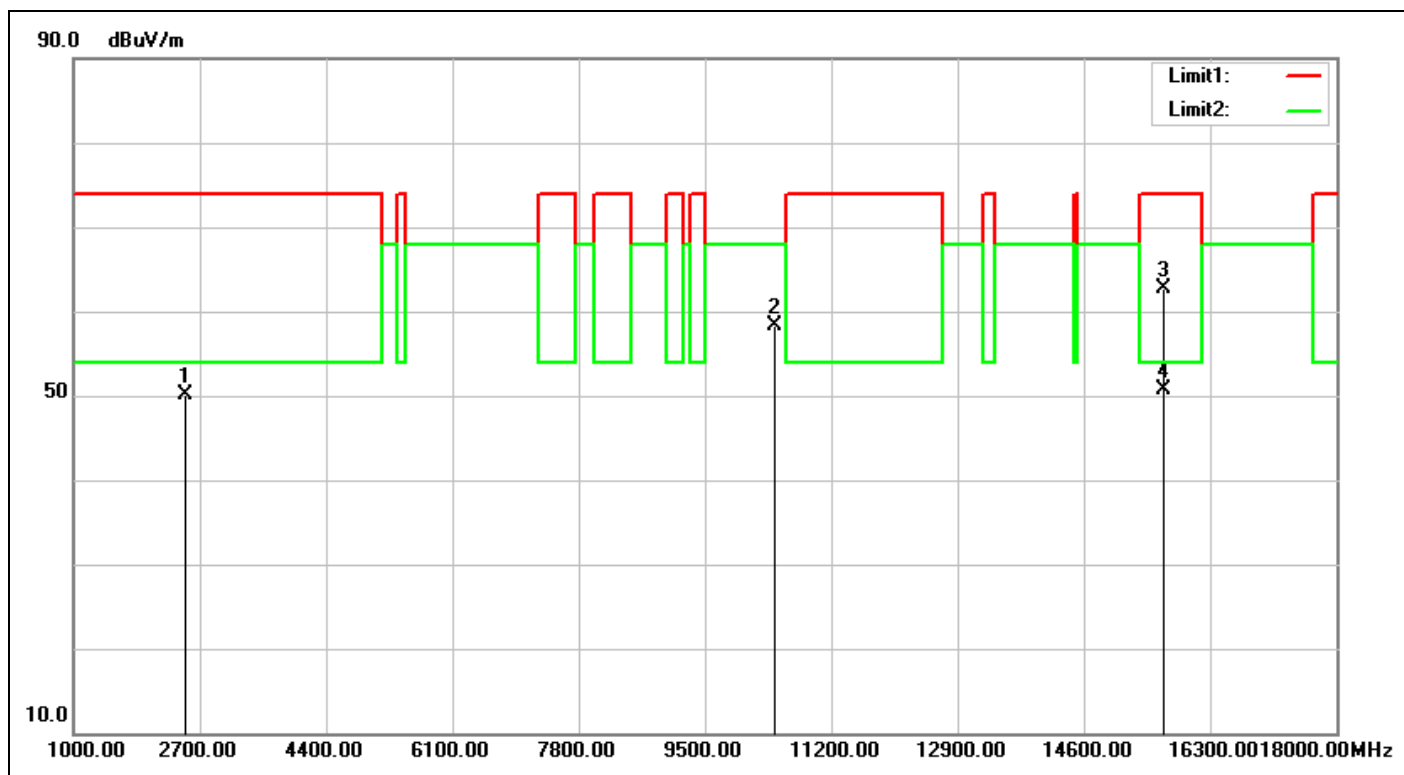
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|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:08:11</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2445.000        | -4.05         | 53.02          | 48.97          | 74.00          | -25.03      | peak | 100         | 279           |        |
| 2   | 10400.000       | 10.15         | 47.55          | 57.70          | 68.00          | -10.30      | peak |             |               |        |
| 3   | 15600.000       | 17.42         | 43.41          | 60.83          | 74.00          | -13.17      | peak |             |               |        |
| 4   | 15600.000       | 17.42         | 30.88          | 48.30          | 54.00          | -5.70       | AVG  |             |               |        |



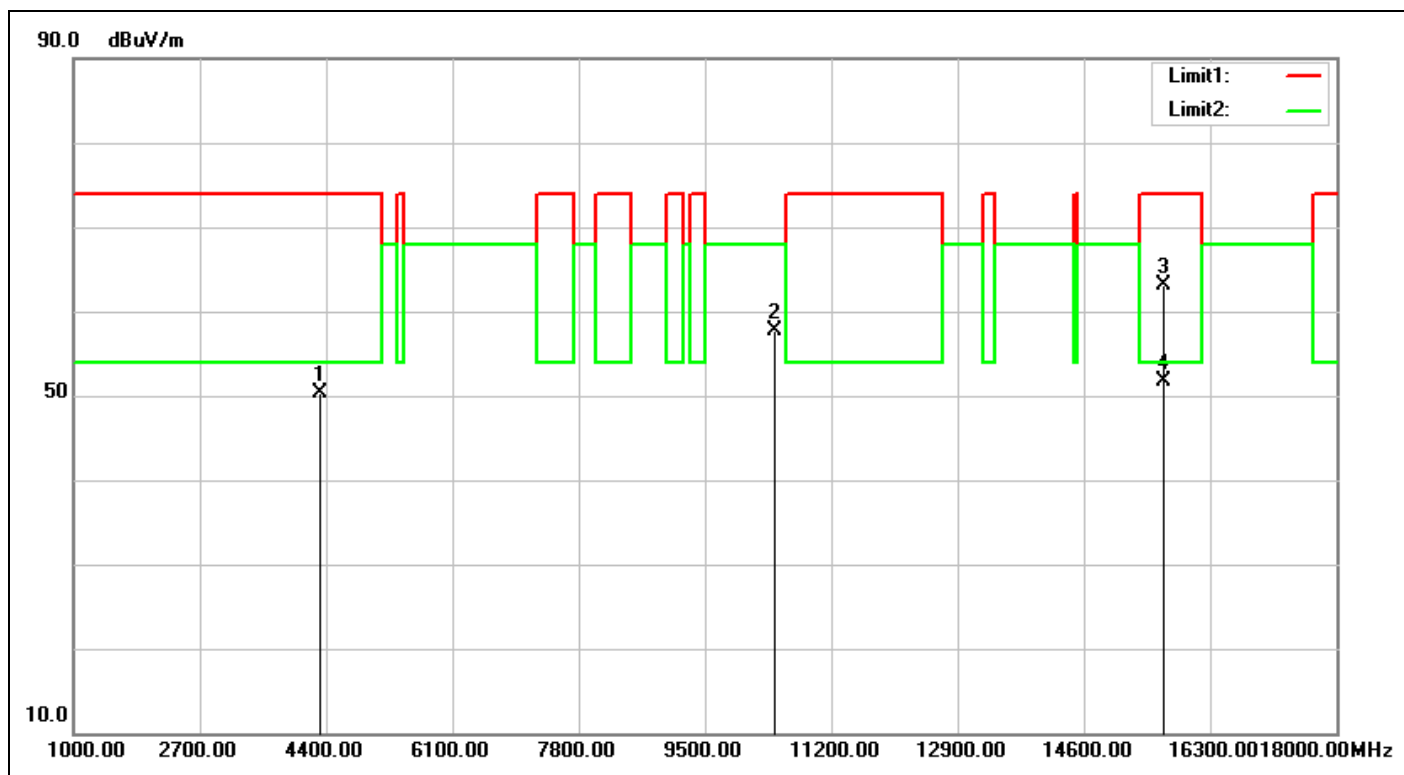
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|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:09:14</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 1918.000        | -4.83         | 56.30          | 51.47          | 74.00          | -22.53      | peak | 100         | 294           |        |
| 2   | 10400.000       | 10.15         | 48.28          | 58.43          | 68.00          | -9.57       | peak |             |               |        |
| 3   | 15600.000       | 17.42         | 43.97          | 61.39          | 74.00          | -12.61      | peak |             |               |        |
| 4   | 15600.000       | 17.42         | 31.08          | 48.50          | 54.00          | -5.50       | AVG  |             |               |        |



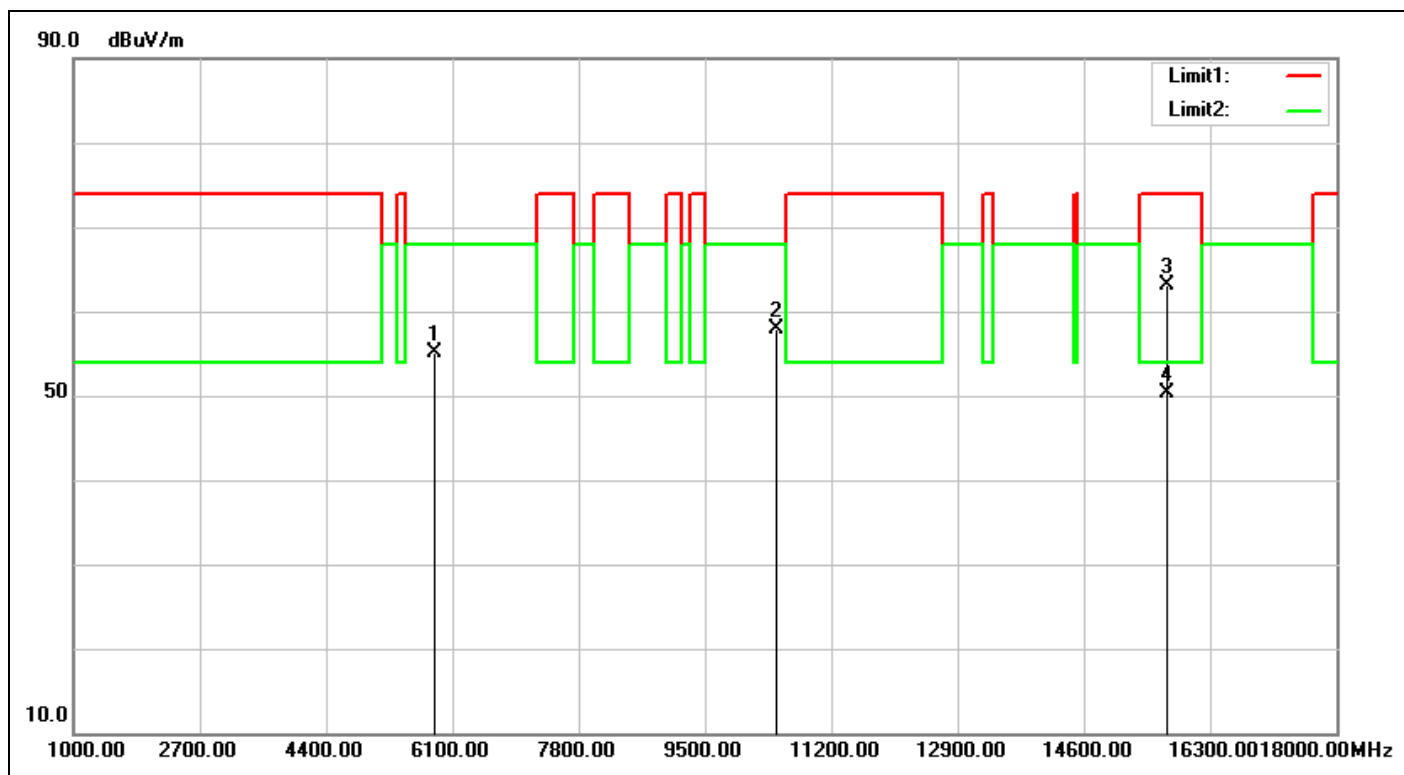
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|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:11:44</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2513.000        | -3.99         | 54.11          | 50.12          | 74.00          | -23.88      | peak | 100         | 19            |        |
| 2   | 10440.000       | 10.06         | 48.31          | 58.37          | 68.00          | -9.63       | peak |             |               |        |
| 3   | 15660.000       | 17.59         | 45.16          | 62.75          | 74.00          | -11.25      | peak |             |               |        |
| 4   | 15660.000       | 17.59         | 33.21          | 50.80          | 54.00          | -3.20       | AVG  |             |               |        |



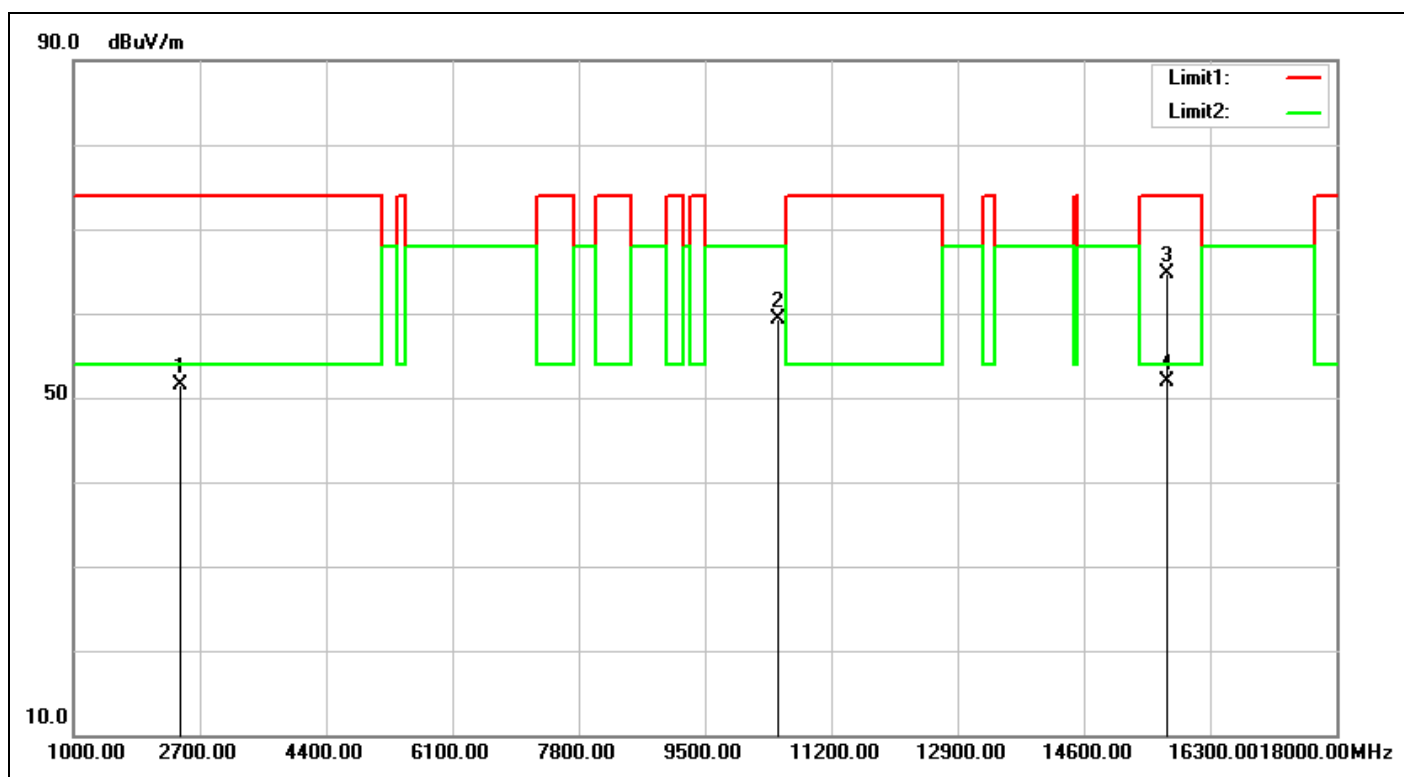
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|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:12:47</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 4315.000        | 0.09          | 50.26          | 50.35          | 74.00          | -23.65      | peak | 100         | 217           |        |
| 2   | 10440.000       | 10.06         | 47.61          | 57.67          | 68.00          | -10.33      | peak |             |               |        |
| 3   | 15660.000       | 17.59         | 45.57          | 63.16          | 74.00          | -10.84      | peak |             |               |        |
| 4   | 15660.000       | 17.59         | 34.11          | 51.70          | 54.00          | -2.30       | AVG  |             |               |        |



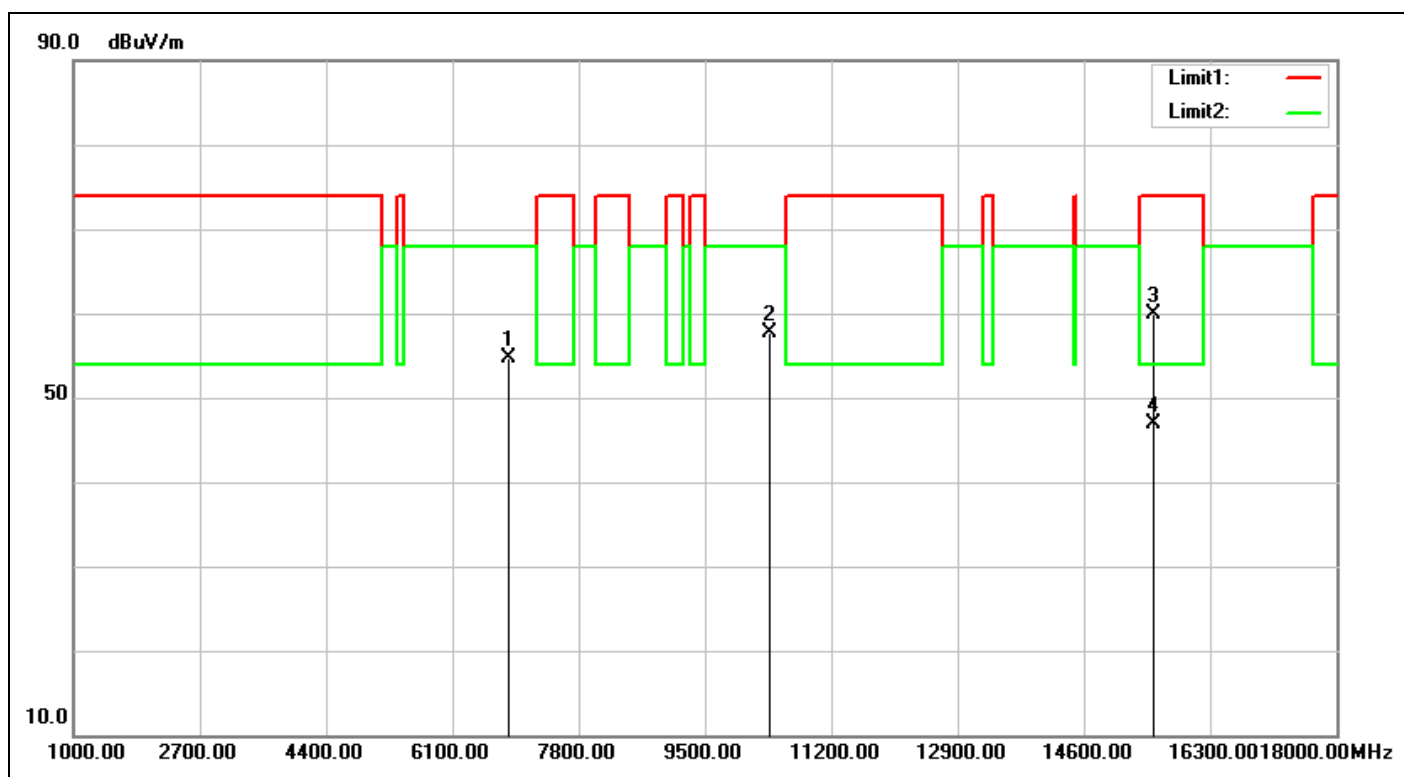
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:17:45</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5240-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 5862.000           | 6.74             | 48.33             | 55.07             | 68.00             | -12.93         | peak | 100            | 54               |        |
| 2   | 10480.000          | 9.98             | 47.83             | 57.81             | 68.00             | -10.19         | peak |                |                  |        |
| 3   | 15720.000          | 17.75            | 45.37             | 63.12             | 74.00             | -10.88         | peak |                |                  |        |
| 4   | 15720.000          | 17.75            | 32.55             | 50.30             | 54.00             | -3.70          | AVG  |                |                  |        |



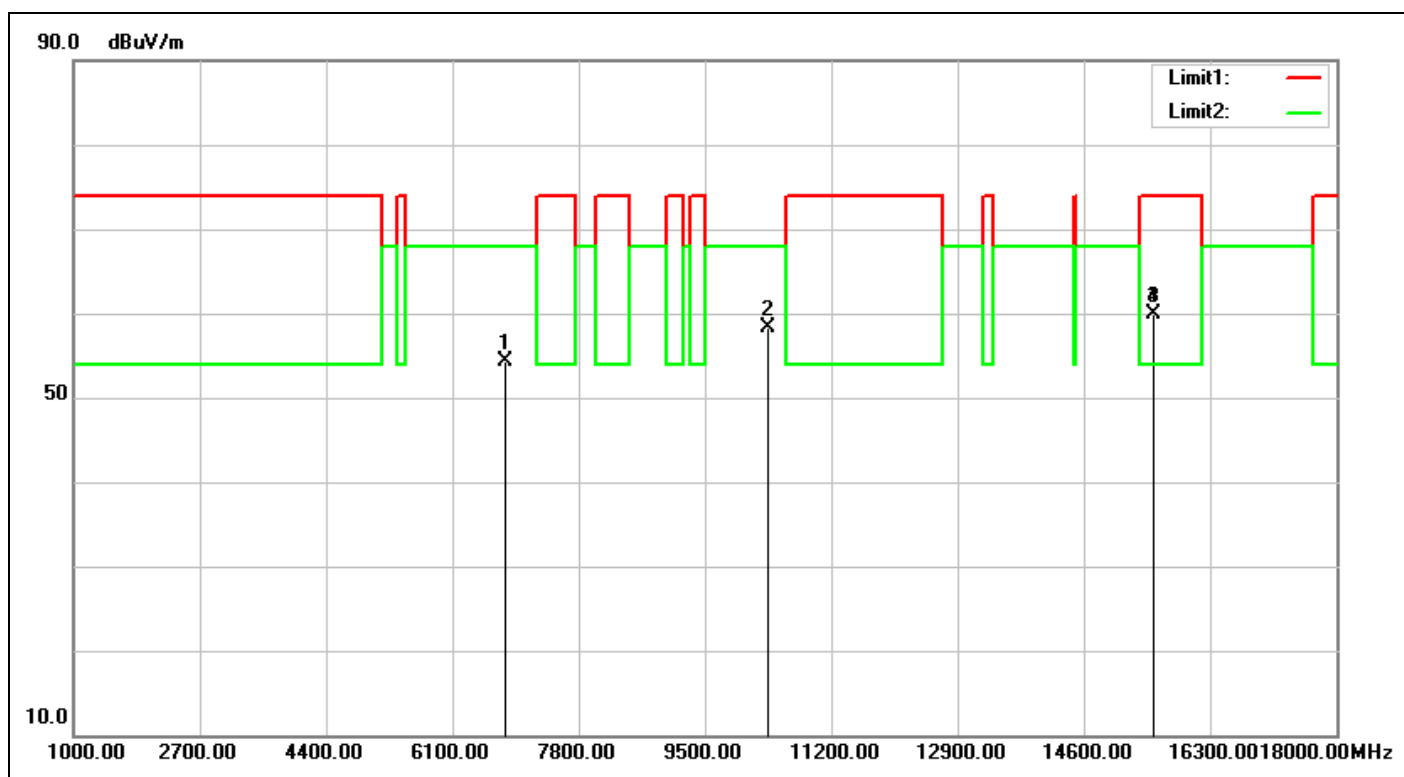
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:18:47</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5240-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2445.000        | -4.05         | 55.64          | 51.59          | 74.00          | -22.41      | peak | 100         | 357           |        |
| 2   | 10480.000       | 9.98          | 49.31          | 59.29          | 68.00          | -8.71       | peak |             |               |        |
| 3   | 15720.000       | 17.75         | 47.04          | 64.79          | 74.00          | -9.21       | peak |             |               |        |
| 4   | 15720.000       | 17.75         | 34.15          | 51.90          | 54.00          | -2.10       | AVG  |             |               |        |



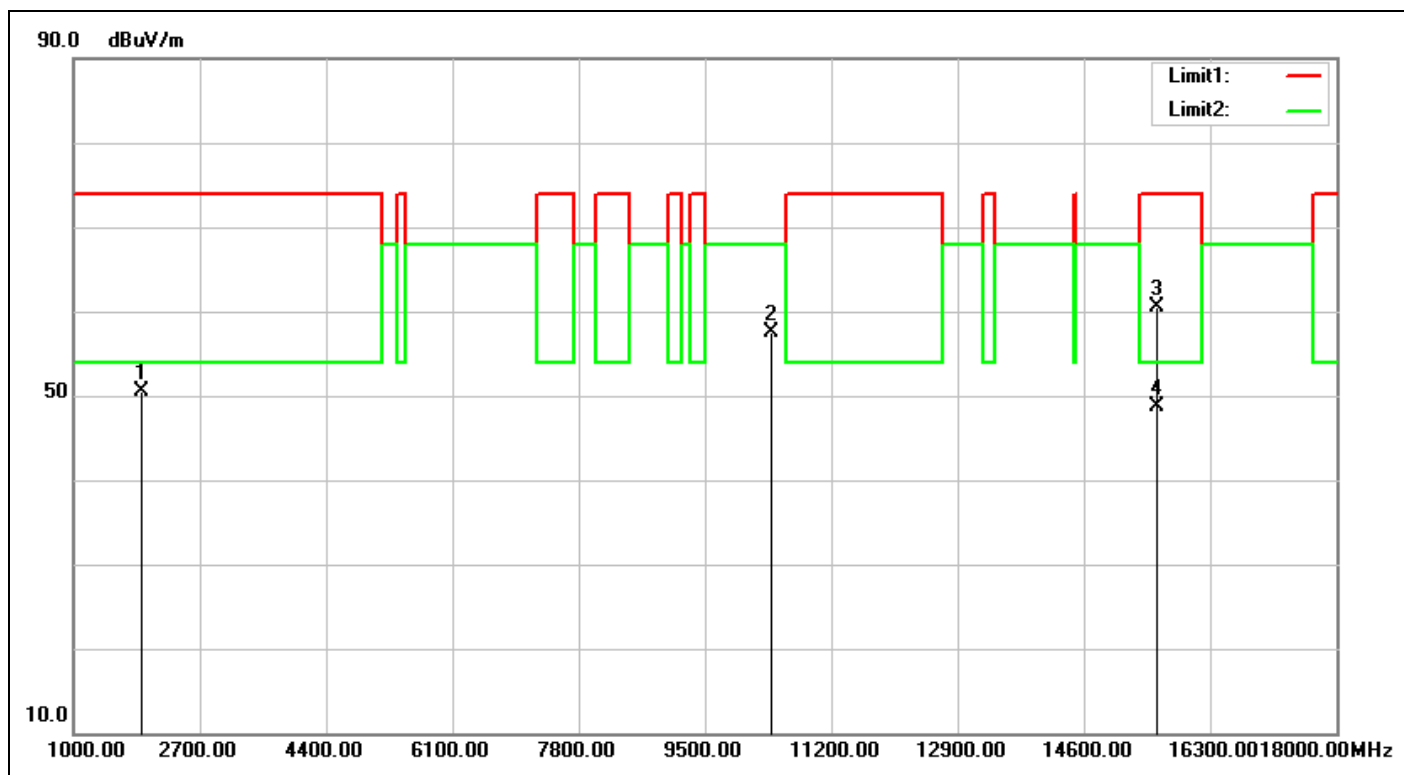
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:21:30</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5180-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6848.000        | 9.42          | 45.22          | 54.64          | 68.00          | -13.36      | peak | 100         | 43            |        |
| 2   | 10360.000       | 10.22         | 47.45          | 57.67          | 68.00          | -10.33      | peak |             |               |        |
| 3   | 15540.000       | 17.25         | 42.73          | 59.98          | 74.00          | -14.02      | peak |             |               |        |
| 4   | 15540.000       | 17.25         | 29.75          | 47.00          | 54.00          | -7.00       | AVG  |             |               |        |



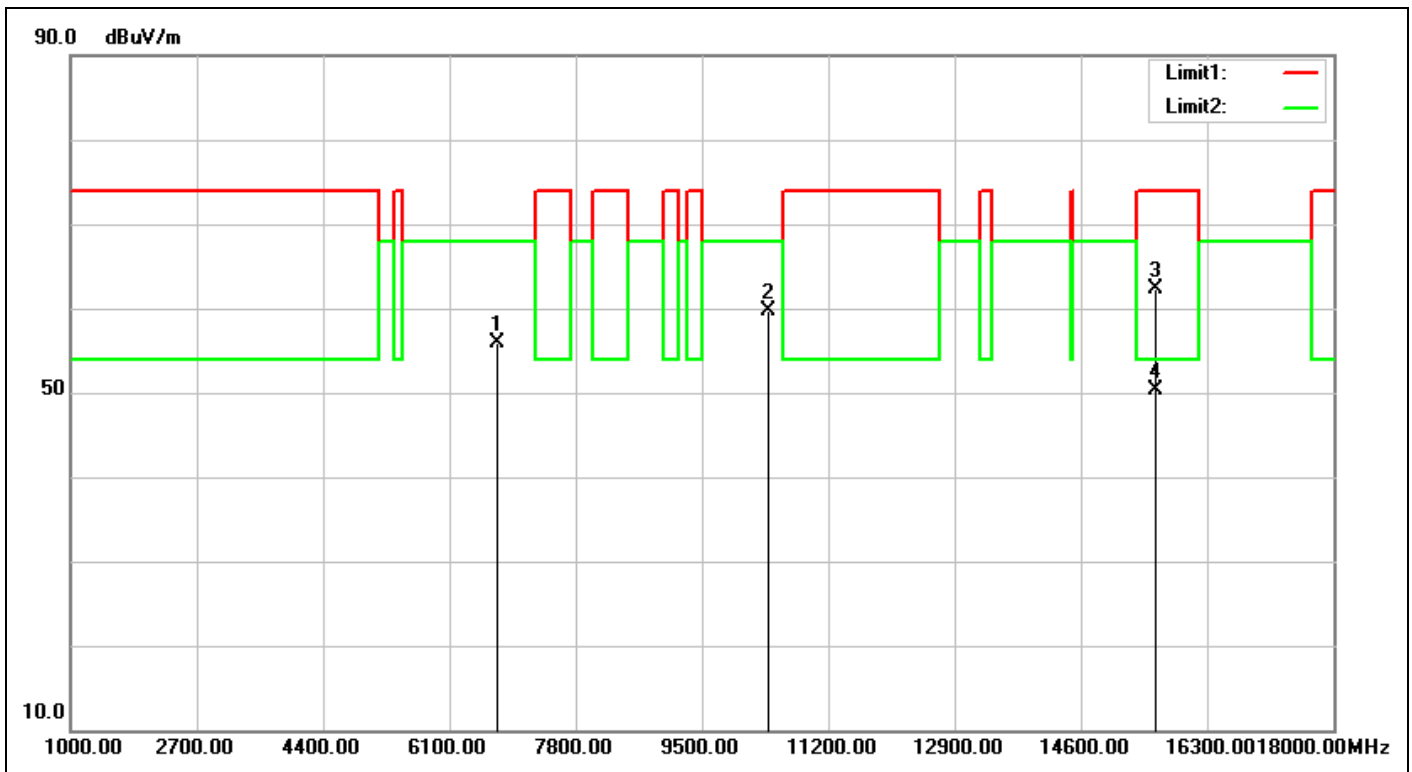
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:22:33</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5180-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 6814.000           | 9.45             | 44.94             | 54.39             | 68.00             | -13.61         | peak | 100            | 119              |        |
| 2   | 10360.000          | 10.22            | 48.01             | 58.23             | 68.00             | -9.77          | peak |                |                  |        |
| 3   | 15540.000          | 17.25            | 42.56             | 59.81             | 74.00             | -14.19         | peak |                |                  |        |
| 4   | 15540.000          | 17.25            | 42.56             | 59.81             | 74.00             | -14.19         | peak |                |                  |        |



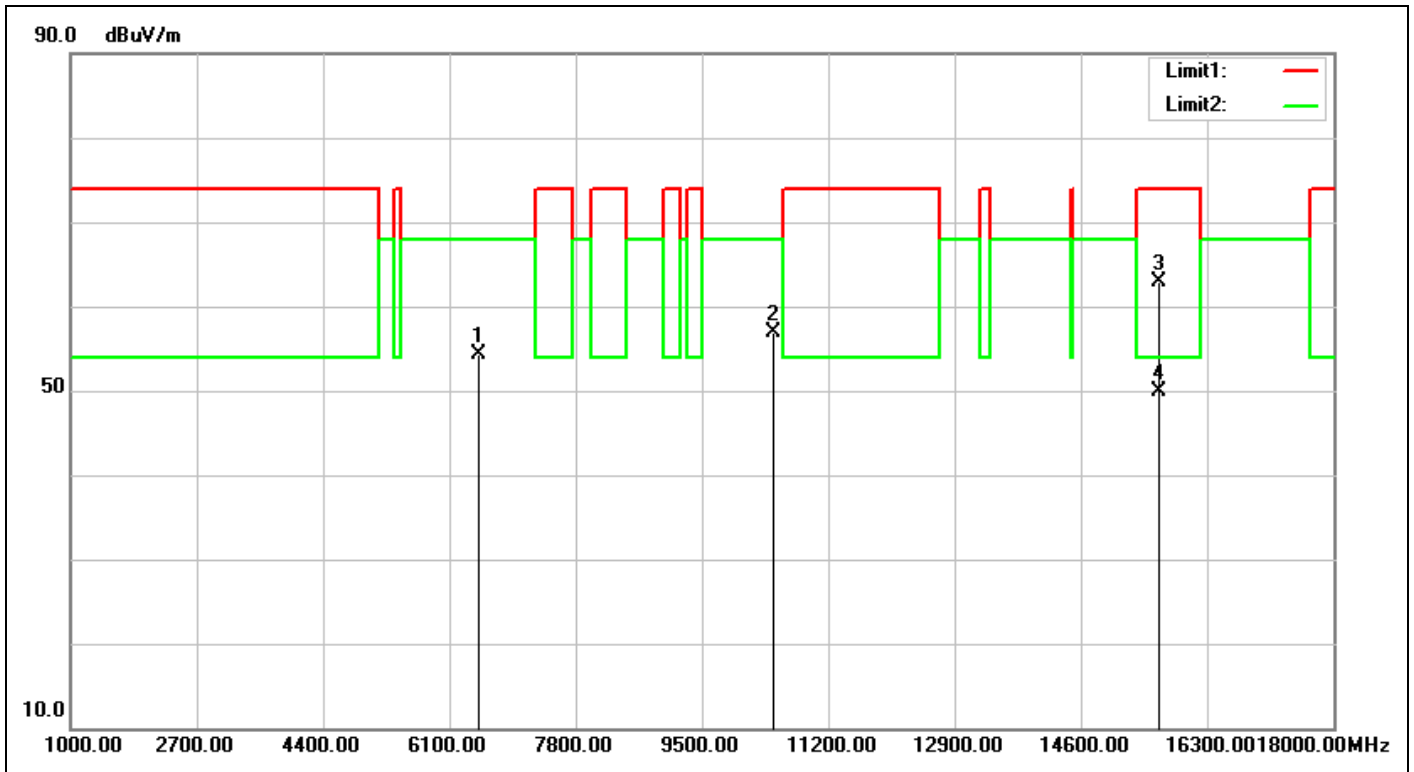
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:25:24</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5200-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 1918.000        | -4.83         | 55.43          | 50.60          | 74.00          | -23.40      | peak | 100         | 89            |        |
| 2   | 10400.000       | 10.15         | 47.45          | 57.60          | 68.00          | -10.40      | peak |             |               |        |
| 3   | 15600.000       | 17.42         | 42.99          | 60.41          | 74.00          | -13.59      | peak |             |               |        |
| 4   | 15600.000       | 17.42         | 31.34          | 48.76          | 54.00          | -5.24       | AVG  |             |               |        |



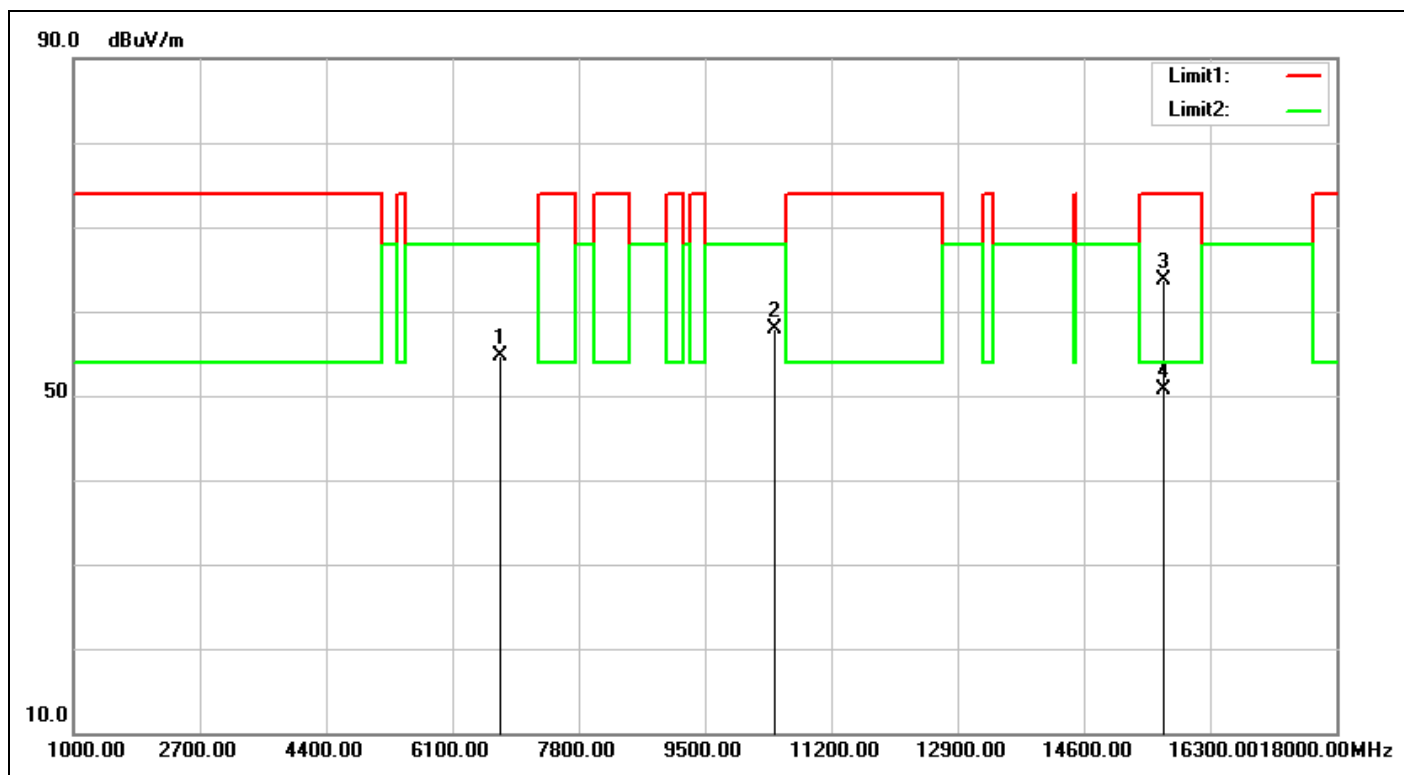
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:26:27</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5200-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 6746.000           | 9.51             | 46.41             | 55.92             | 68.00             | -12.08         | peak | 100            | 35               |        |
| 2   | 10400.000          | 10.15            | 49.59             | 59.74             | 68.00             | -8.26          | peak |                |                  |        |
| 3   | 15600.000          | 17.42            | 44.81             | 62.23             | 74.00             | -11.77         | peak |                |                  |        |
| 4   | 15600.000          | 17.42            | 32.88             | 50.30             | 54.00             | -3.70          | AVG  |                |                  |        |



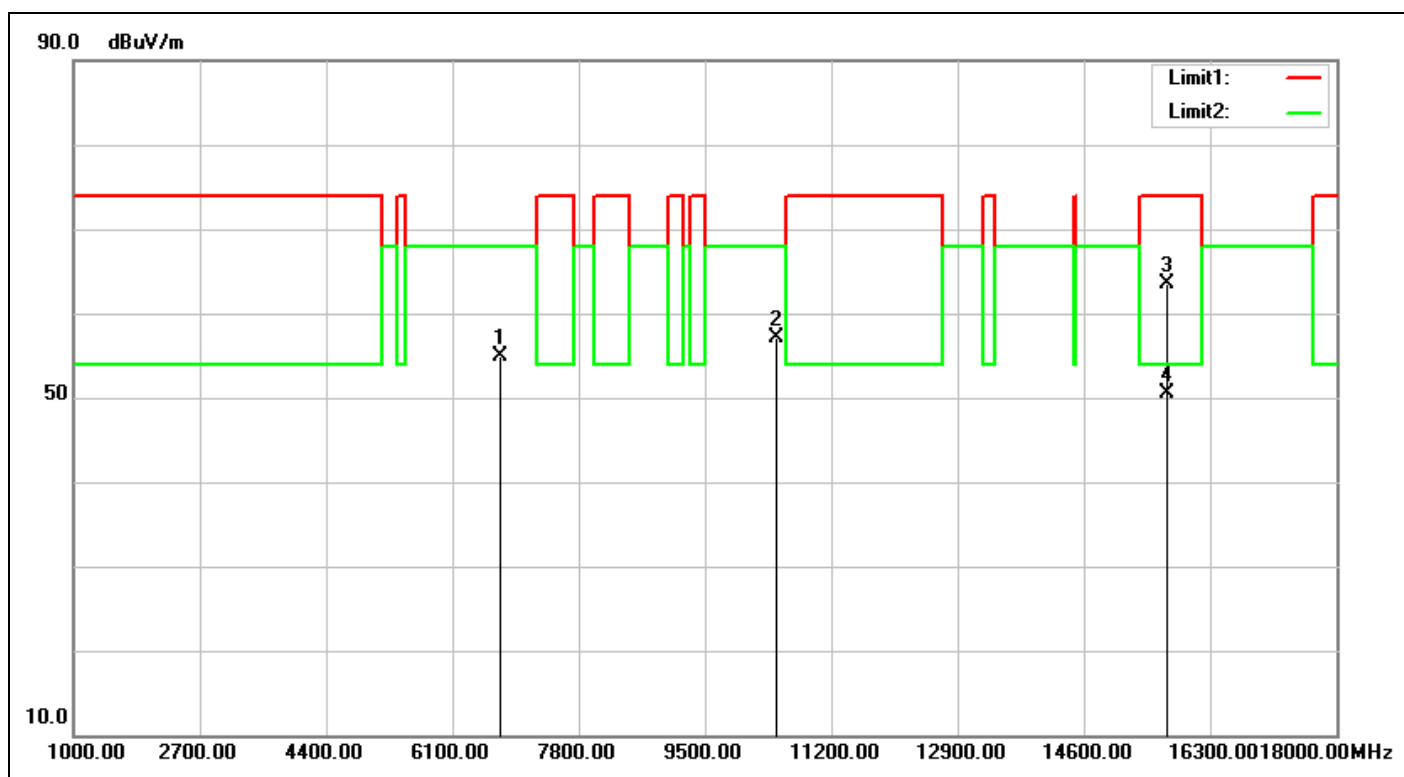
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:31:00</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5220-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6491.000        | 9.70          | 44.55          | 54.25          | 68.00          | -13.75      | peak | 100         | 211           |        |
| 2   | 10440.000       | 10.06         | 46.92          | 56.98          | 68.00          | -11.02      | peak |             |               |        |
| 3   | 15660.000       | 17.59         | 45.26          | 62.85          | 74.00          | -11.15      | peak |             |               |        |
| 4   | 15660.000       | 17.59         | 32.31          | 49.90          | 54.00          | -4.10       | AVG  |             |               |        |



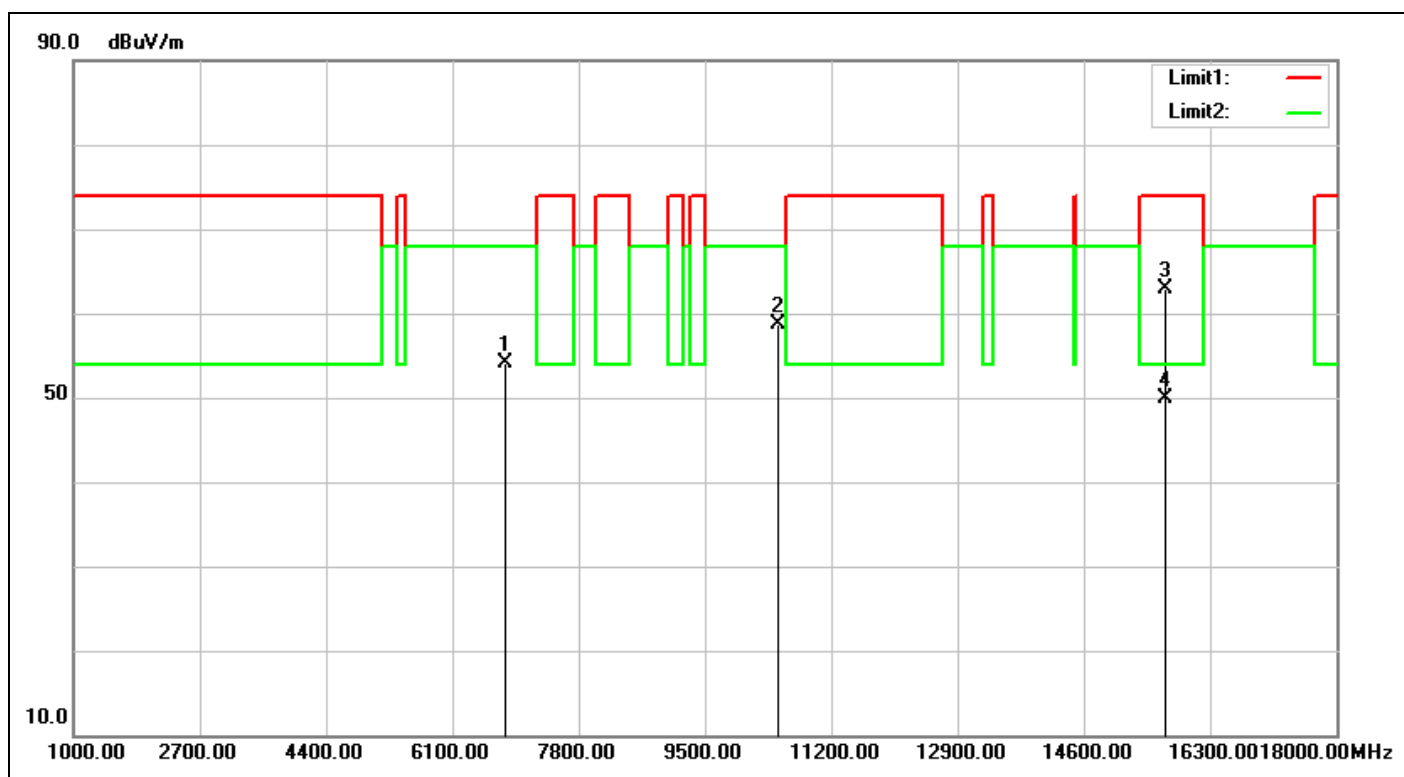
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:32:03</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5220-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6746.000        | 9.51          | 45.14          | 54.65          | 68.00          | -13.35      | peak | 100         | 296           |        |
| 2   | 10440.000       | 10.06         | 47.94          | 58.00          | 68.00          | -10.00      | peak |             |               |        |
| 3   | 15660.000       | 17.59         | 46.10          | 63.69          | 74.00          | -10.31      | peak |             |               |        |
| 4   | 15660.000       | 17.59         | 33.11          | 50.70          | 54.00          | -3.30       | AVG  |             |               |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:35:44</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5240-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6746.000        | 9.51          | 45.47          | 54.98          | 68.00          | -13.02      | peak | 100         | 103           |        |
| 2   | 10480.000       | 9.98          | 47.13          | 57.11          | 68.00          | -10.89      | peak |             |               |        |
| 3   | 15720.000       | 17.75         | 45.83          | 63.58          | 74.00          | -10.42      | peak |             |               |        |
| 4   | 15720.000       | 17.75         | 32.85          | 50.60          | 54.00          | -3.40       | AVG  |             |               |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:36:46</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5240-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6814.000        | 9.45          | 44.61          | 54.06          | 68.00          | -13.94      | peak | 100         | 86            |        |
| 2   | 10480.000       | 9.98          | 48.71          | 58.69          | 68.00          | -9.31       | peak |             |               |        |
| 3   | 15720.000       | 17.75         | 45.15          | 62.90          | 74.00          | -11.10      | peak |             |               |        |
| 4   | 15720.000       | 17.75         | 32.15          | 49.90          | 54.00          | -4.10       | AVG  |             |               |        |

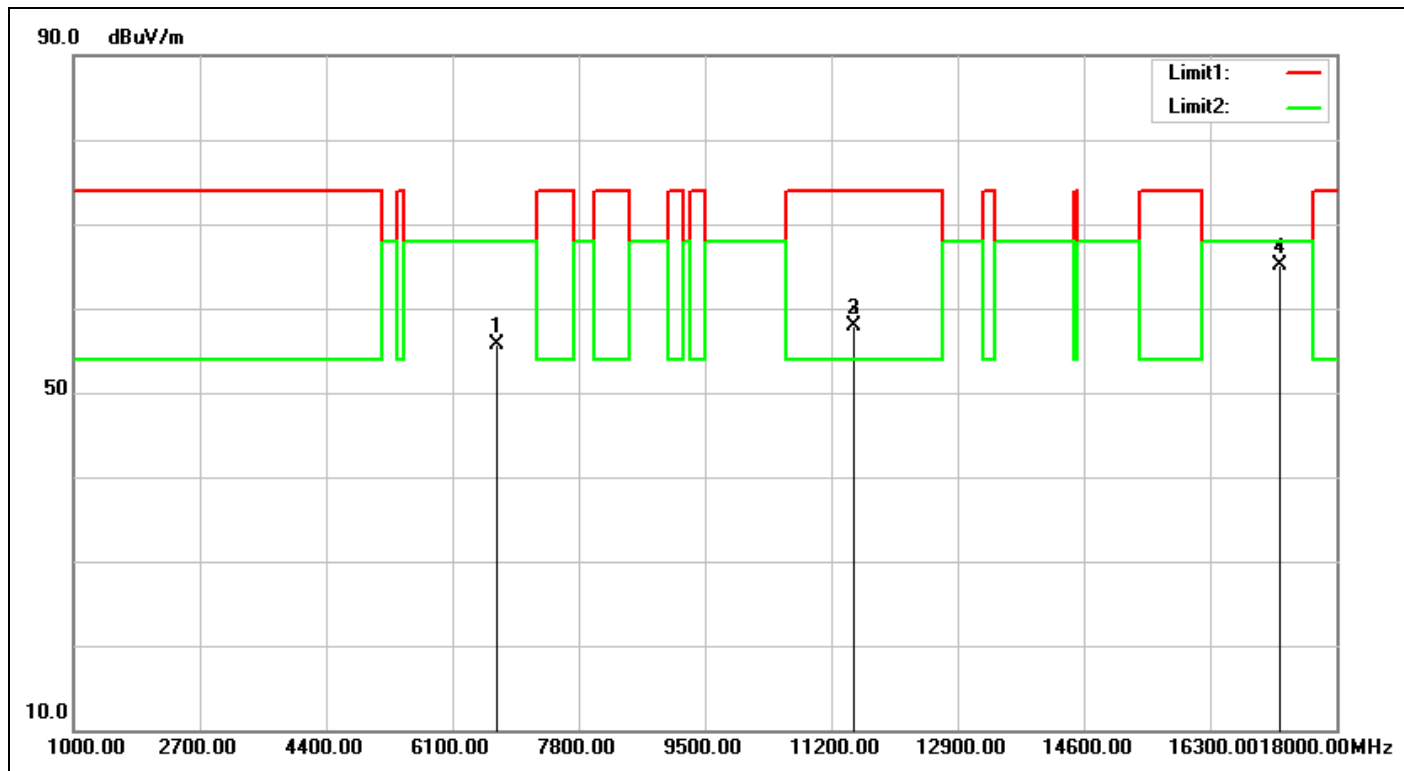
# Spurious Emissions, TX Mode, 1-18G , 5725-5850MHz



**TUV Rheinland Taiwan Ltd.**

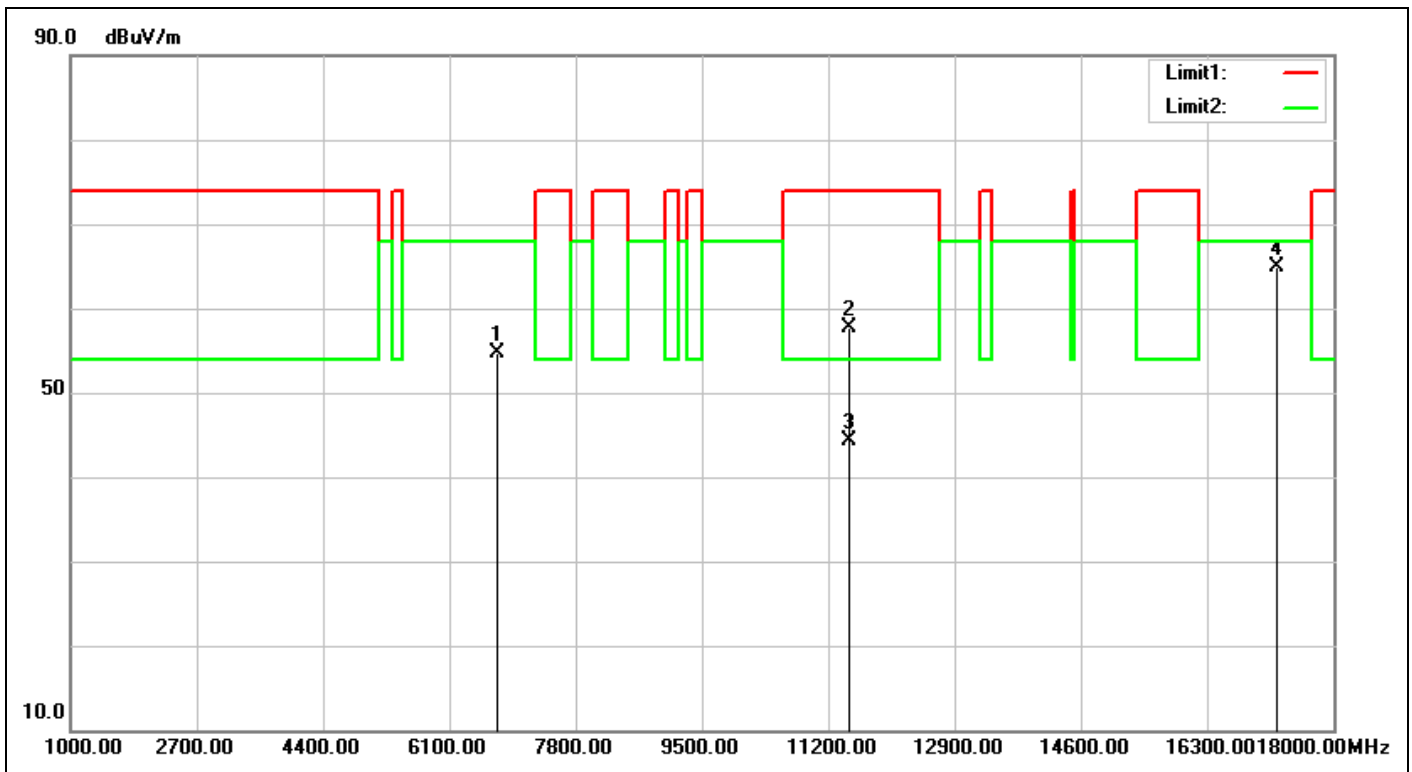
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



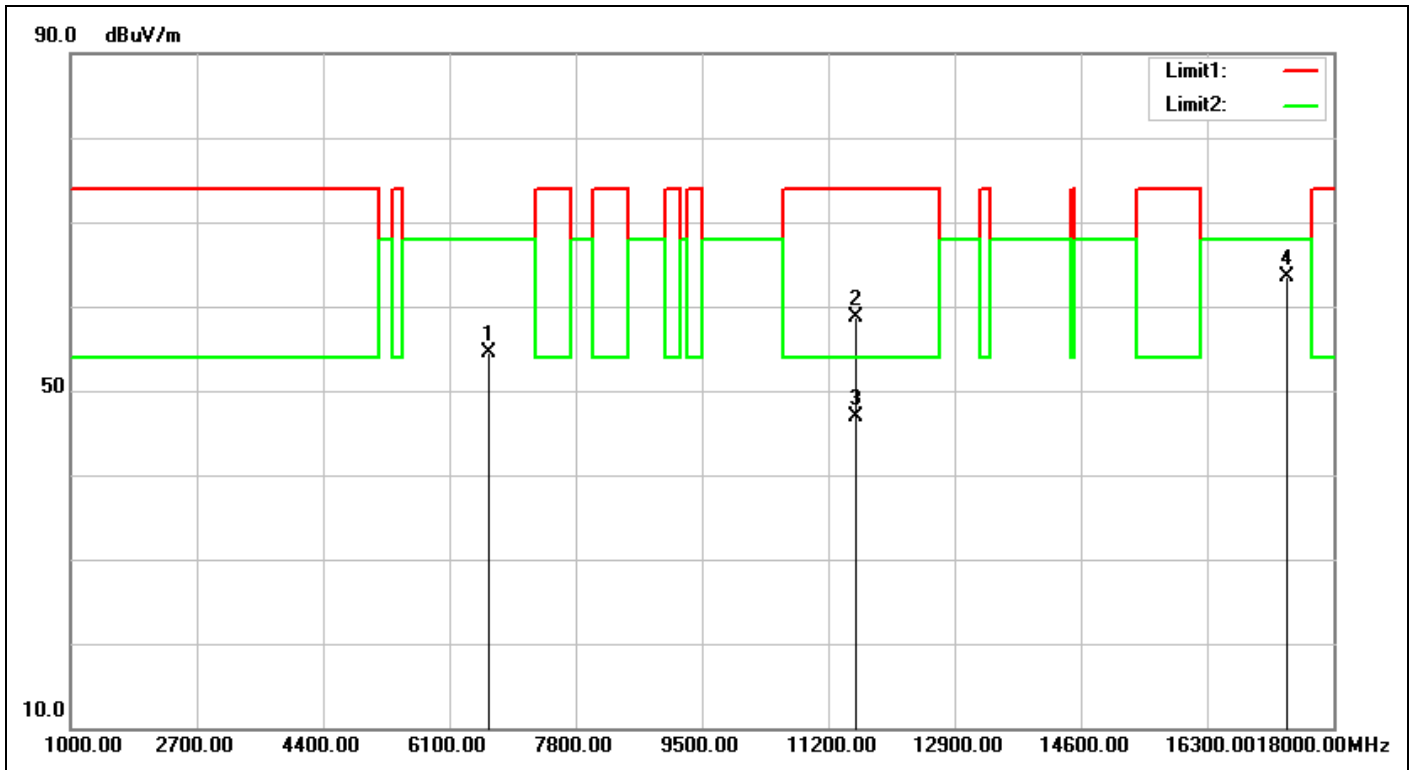
|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b> | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/17 10:43:16</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b>  | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5745-TX</b>        |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6695.000        | 9.56          | 46.12          | 55.68          | 68.00          | -12.32      | peak | 100         | 199           |        |
| 2   | 11490.000       | 10.22         | 47.73          | 57.95          | 74.00          | -16.05      | peak |             |               |        |
| 3   | 11490.000       | 10.22         | 47.73          | 57.95          | 74.00          | -16.05      | peak |             |               |        |
| 4   | 17235.000       | 21.10         | 43.94          | 65.04          | 68.00          | -2.96       | peak |             |               |        |



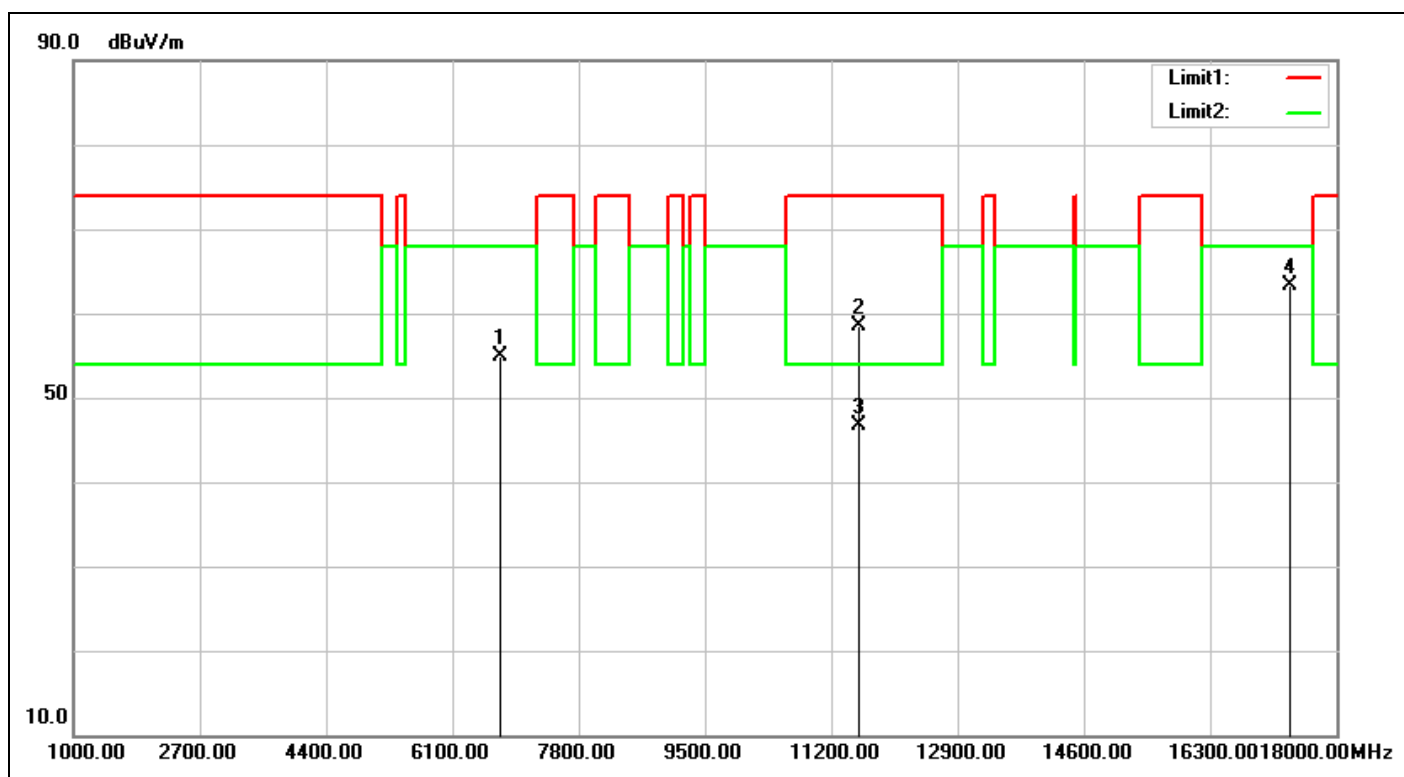
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:44:19</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5745-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6746.000        | 9.51          | 45.17          | 54.68          | 68.00          | -13.32      | peak | 100         | 294           |        |
| 2   | 11490.000       | 10.22         | 47.49          | 57.71          | 74.00          | -16.29      | peak |             |               |        |
| 3   | 11490.000       | 10.22         | 34.08          | 44.30          | 54.00          | -9.70       | AVG  |             |               |        |
| 4   | 17235.000       | 21.10         | 43.78          | 64.88          | 68.00          | -3.12       | peak |             |               |        |



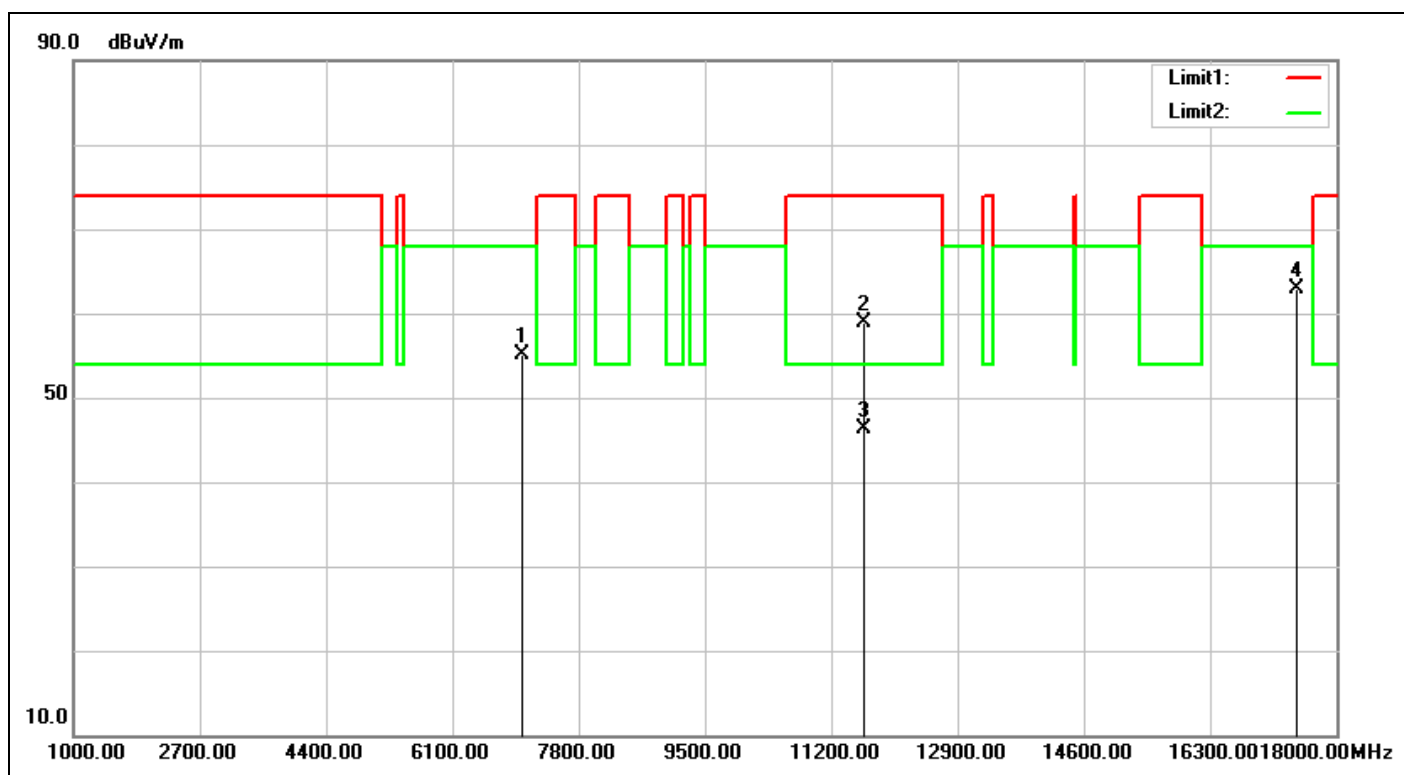
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:46:39</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6627.000        | 9.62          | 44.94          | 54.56          | 68.00          | -13.44      | peak | 100         | 334           |        |
| 2   | 11570.000       | 10.50         | 48.28          | 58.78          | 74.00          | -15.22      | peak |             |               |        |
| 3   | 11570.000       | 10.50         | 36.40          | 46.90          | 54.00          | -7.10       | AVG  |             |               |        |
| 4   | 17355.000       | 20.85         | 42.57          | 63.42          | 68.00          | -4.58       | peak |             |               |        |



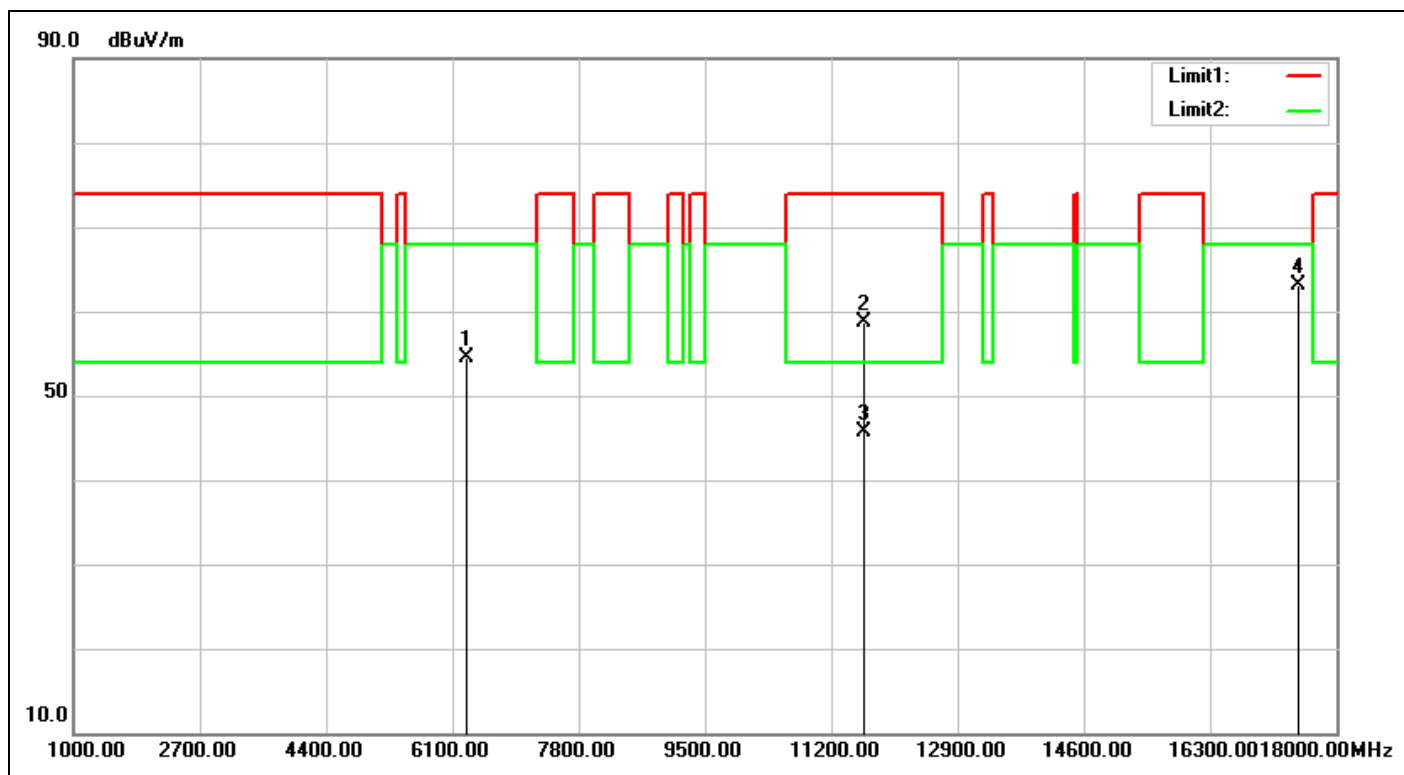
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:47:42</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 6746.000           | 9.51             | 45.44             | 54.95             | 68.00             | -13.05         | peak | 100            | 360              |        |
| 2   | 11570.000          | 10.50            | 47.97             | 58.47             | 74.00             | -15.53         | peak |                |                  |        |
| 3   | 11570.000          | 10.50            | 36.30             | 46.80             | 54.00             | -7.20          | AVG  |                |                  |        |
| 4   | 17355.000          | 20.85            | 42.36             | 63.21             | 68.00             | -4.79          | peak |                |                  |        |



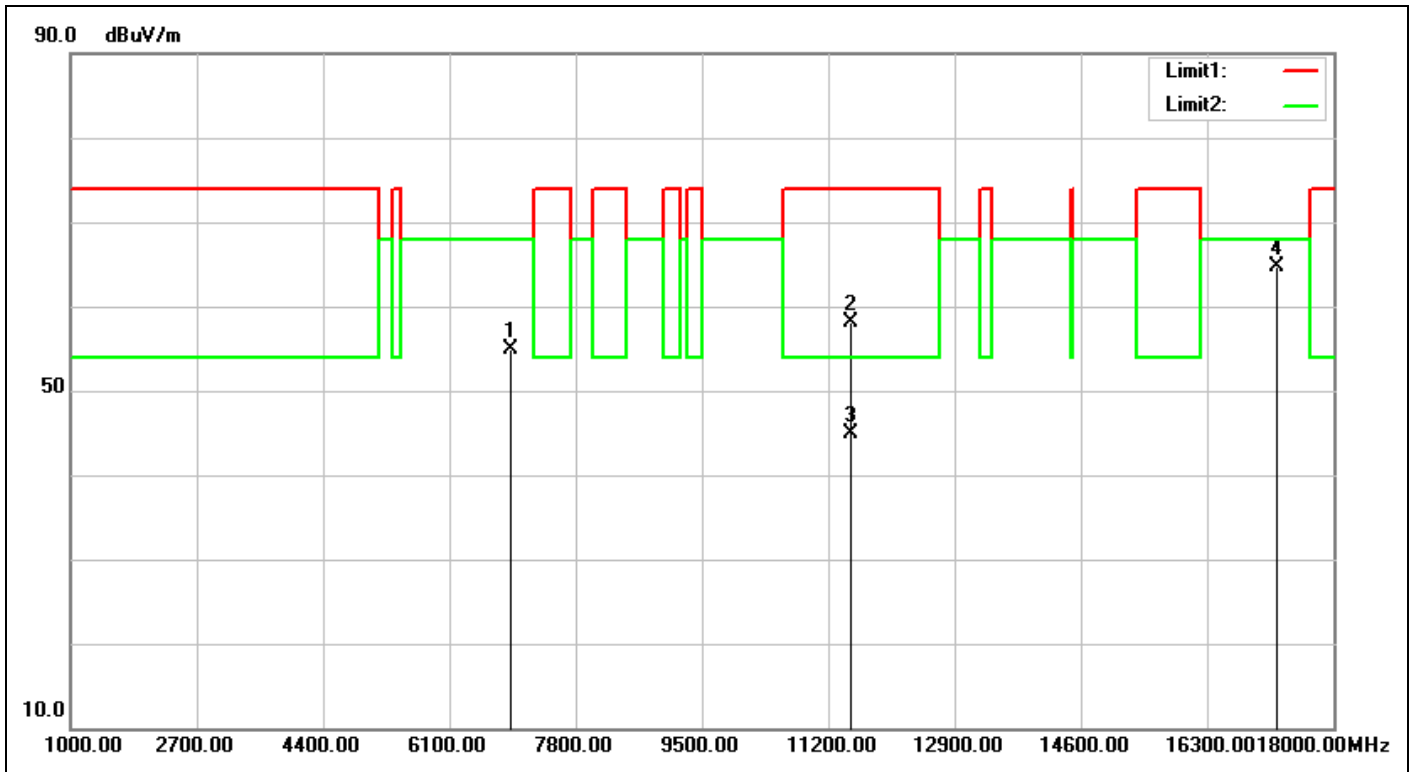
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/17 10:53:40 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 22(°C)/56%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5825-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 7035.000        | 9.38          | 45.78          | 55.16          | 68.00          | -12.84      | peak | 100         | 170         |        |
| 2   | 11650.000       | 10.80         | 48.01          | 58.81          | 74.00          | -15.19      | peak |             |             |        |
| 3   | 11650.000       | 10.80         | 35.50          | 46.30          | 54.00          | -7.70       | AVG  |             |             |        |
| 4   | 17475.000       | 20.59         | 42.26          | 62.85          | 68.00          | -5.15       | peak |             |             |        |



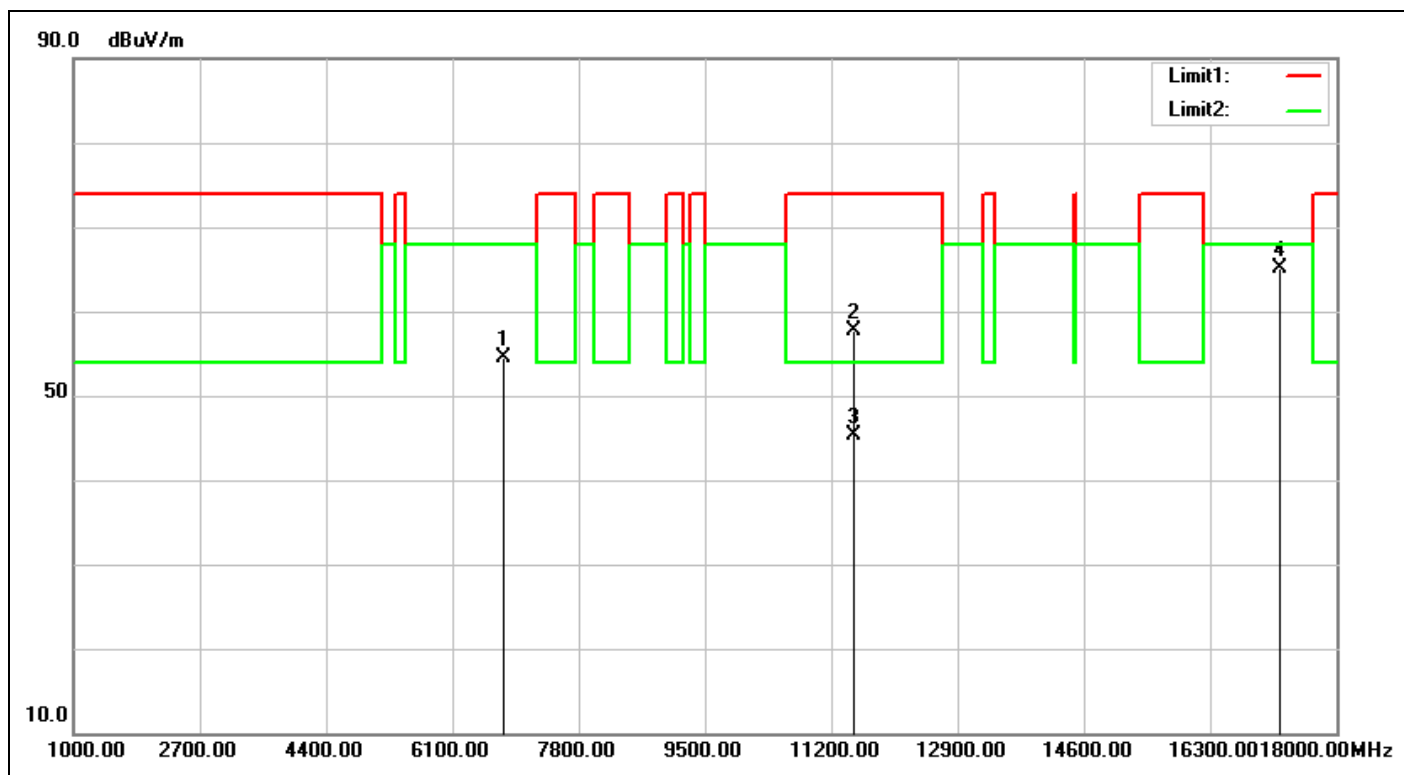
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 10:54:43</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5825-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 6287.000           | 8.87             | 45.64             | 54.51             | 68.00             | -13.49         | peak | 100            | 167              |        |
| 2   | 11650.000          | 10.80            | 47.83             | 58.63             | 74.00             | -15.37         | peak |                |                  |        |
| 3   | 11650.000          | 10.80            | 34.90             | 45.70             | 54.00             | -8.30          | AVG  |                |                  |        |
| 4   | 17475.000          | 20.59            | 42.52             | 63.11             | 68.00             | -4.89          | peak |                |                  |        |



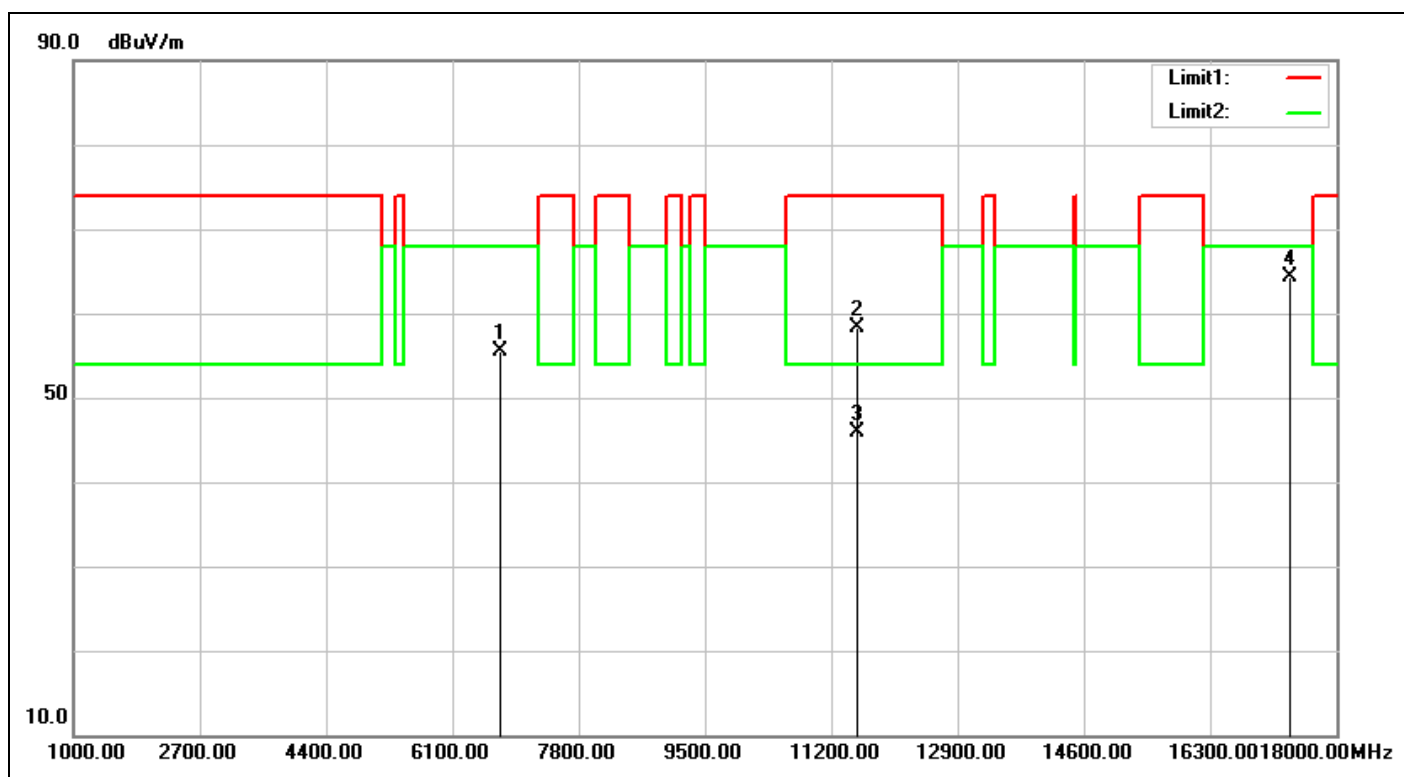
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:02:29</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5745-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6933.000        | 9.34          | 45.49          | 54.83          | 68.00          | -13.17      | peak | 100         | 270           |        |
| 2   | 11490.000       | 10.22         | 47.82          | 58.04          | 74.00          | -15.96      | peak |             |               |        |
| 3   | 11490.000       | 10.22         | 34.78          | 45.00          | 54.00          | -9.00       | AVG  |             |               |        |
| 4   | 17235.000       | 21.10         | 43.59          | 64.69          | 68.00          | -3.31       | peak |             |               |        |



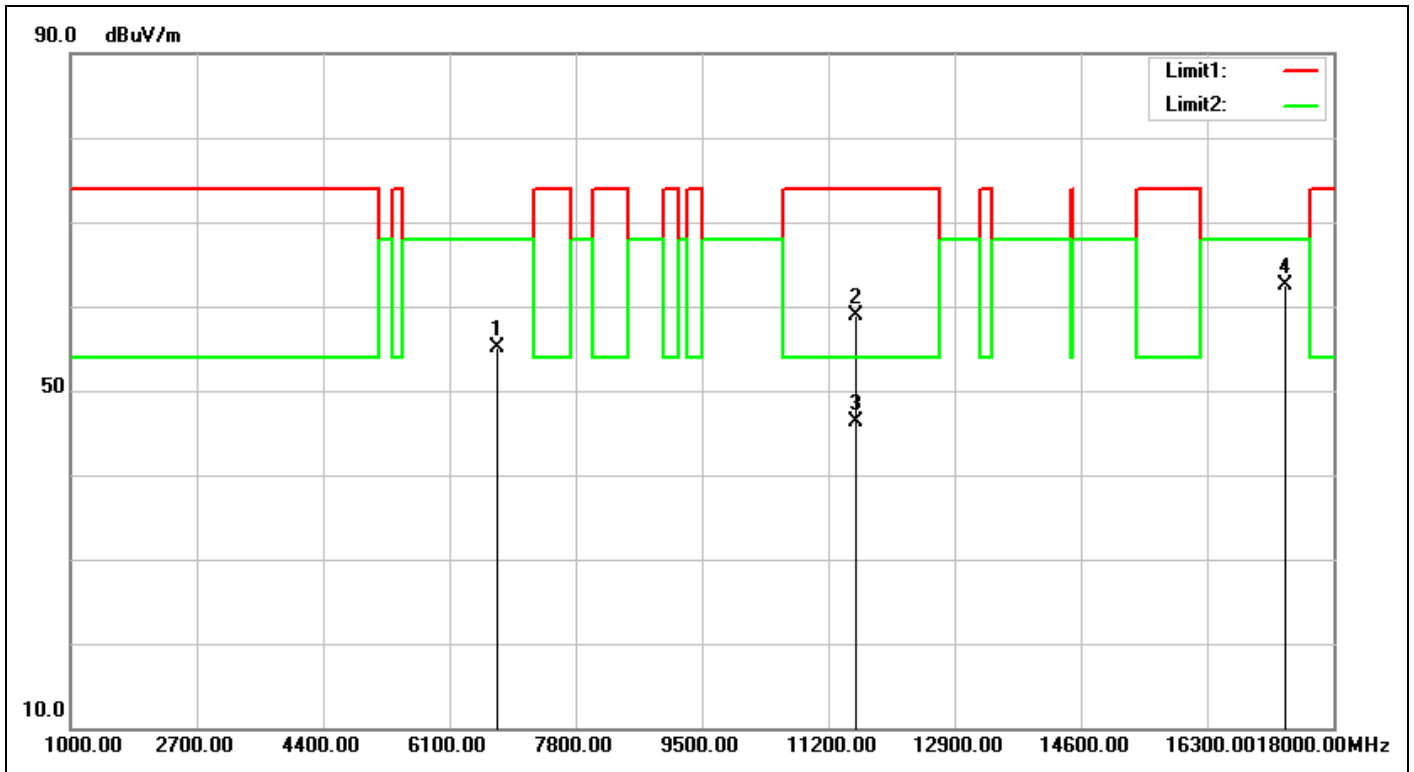
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:03:32</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5745-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6797.000        | 9.47          | 45.01          | 54.48          | 68.00          | -13.52      | peak | 100         | 52            |        |
| 2   | 11490.000       | 10.22         | 47.43          | 57.65          | 74.00          | -16.35      | peak |             |               |        |
| 3   | 11490.000       | 10.22         | 35.08          | 45.30          | 54.00          | -8.70       | AVG  |             |               |        |
| 4   | 17235.000       | 21.10         | 44.07          | 65.17          | 68.00          | -2.83       | peak |             |               |        |



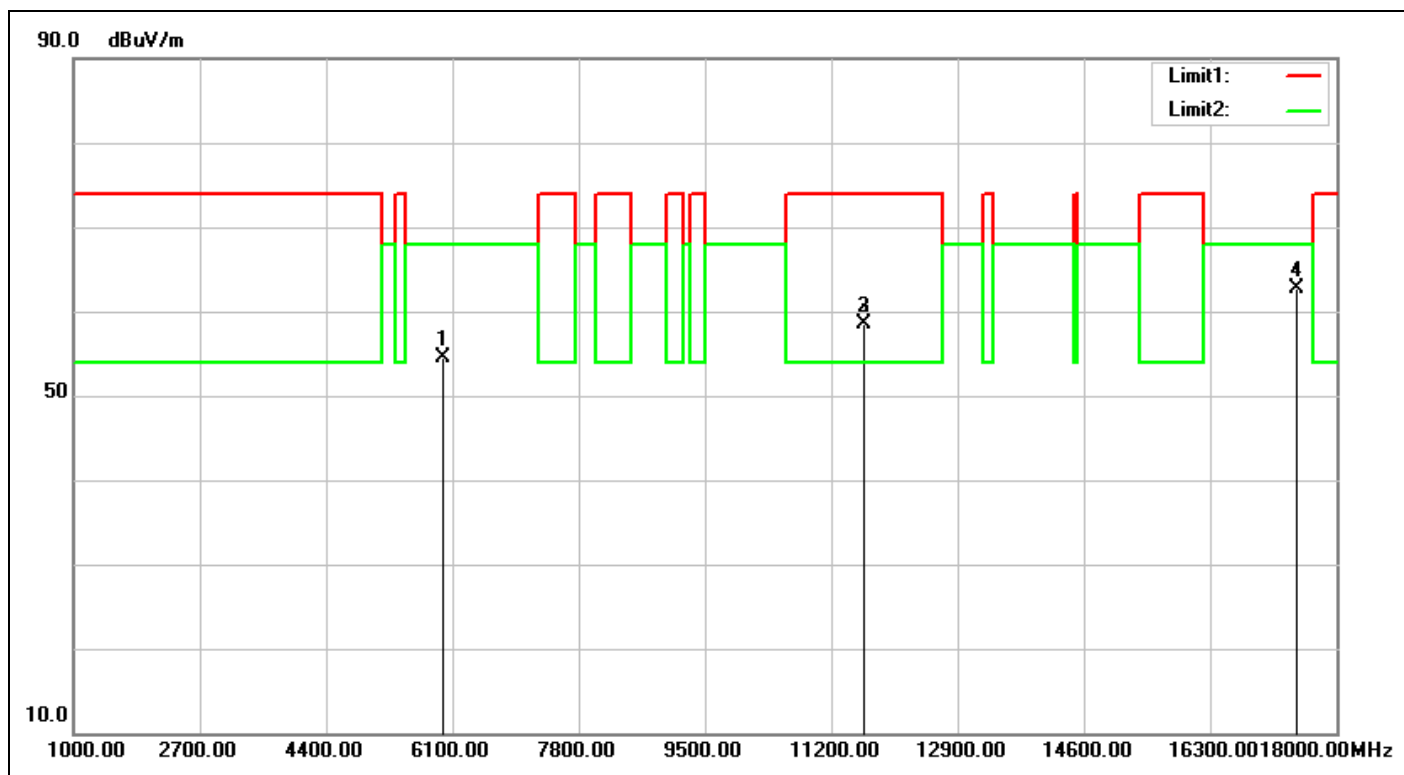
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:06:36</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5785-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6746.000        | 9.51          | 45.94          | 55.45          | 68.00          | -12.55      | peak | 100         | 314           |        |
| 2   | 11570.000       | 10.50         | 47.90          | 58.40          | 74.00          | -15.60      | peak |             |               |        |
| 3   | 11570.000       | 10.50         | 35.40          | 45.90          | 54.00          | -8.10       | AVG  |             |               |        |
| 4   | 17355.000       | 20.85         | 43.47          | 64.32          | 68.00          | -3.68       | peak |             |               |        |



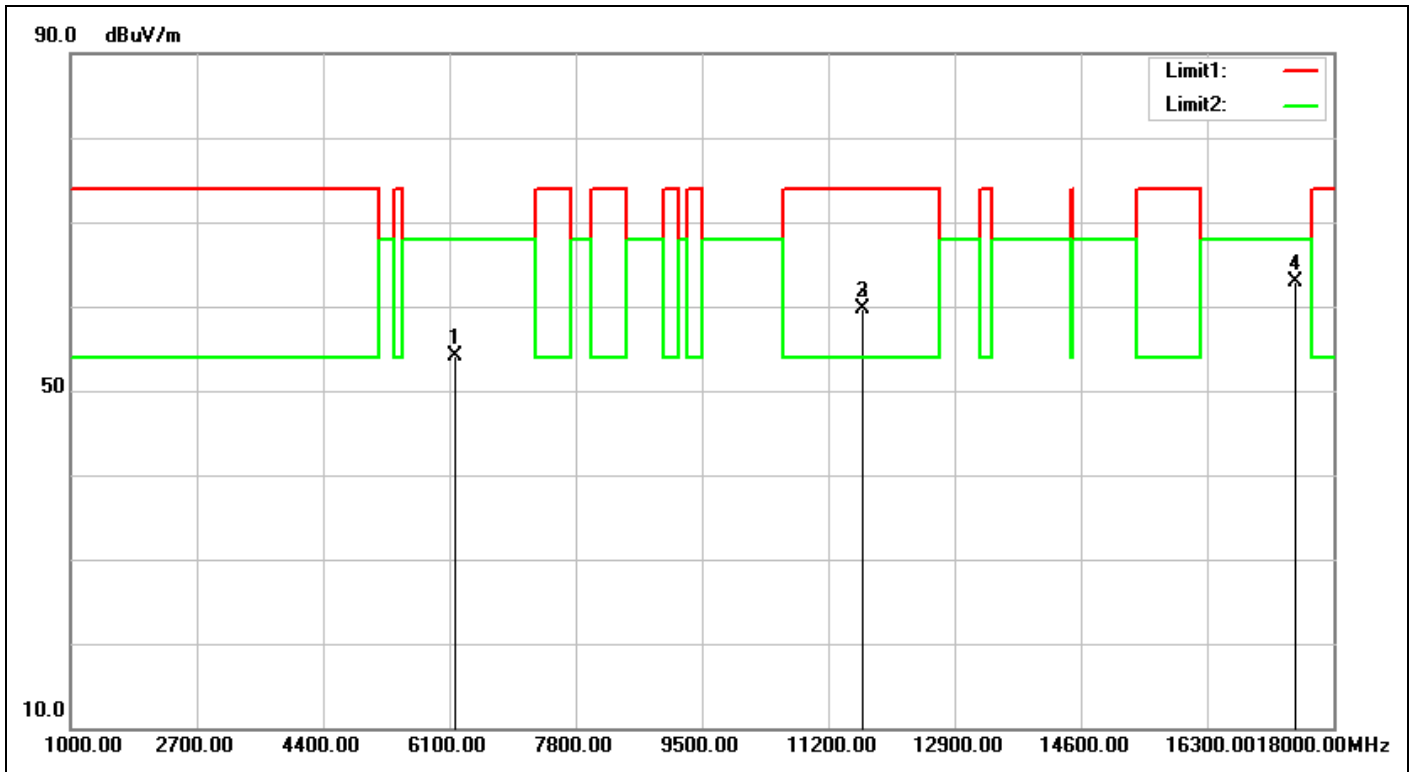
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:07:39</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5785-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6746.000        | 9.51          | 45.53          | 55.04          | 68.00          | -12.96      | peak | 100         | 17            |        |
| 2   | 11570.000       | 10.50         | 48.34          | 58.84          | 74.00          | -15.16      | peak |             |               |        |
| 3   | 11570.000       | 10.50         | 35.80          | 46.30          | 54.00          | -7.70       | AVG  |             |               |        |
| 4   | 17355.000       | 20.85         | 41.71          | 62.56          | 68.00          | -5.44       | peak |             |               |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:13:39</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5825-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 5964.000        | 7.44          | 47.00          | 54.44          | 68.00          | -13.56      | peak | 100         | 357           |        |
| 2   | 11650.000       | 10.80         | 47.71          | 58.51          | 74.00          | -15.49      | peak |             |               |        |
| 3   | 11650.000       | 10.80         | 47.71          | 58.51          | 74.00          | -15.49      | peak |             |               |        |
| 4   | 17475.000       | 20.59         | 42.17          | 62.76          | 68.00          | -5.24       | peak |             |               |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:14:42</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5825-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 6185.000        | 8.44          | 45.76          | 54.20          | 68.00          | -13.80      | peak | 100         | 179           |        |
| 2   | 11650.000       | 10.80         | 48.98          | 59.78          | 74.00          | -14.22      | peak |             |               |        |
| 3   | 11650.000       | 10.80         | 48.98          | 59.78          | 74.00          | -14.22      | peak |             |               |        |
| 4   | 17475.000       | 20.59         | 42.41          | 63.00          | 68.00          | -5.00       | peak |             |               |        |

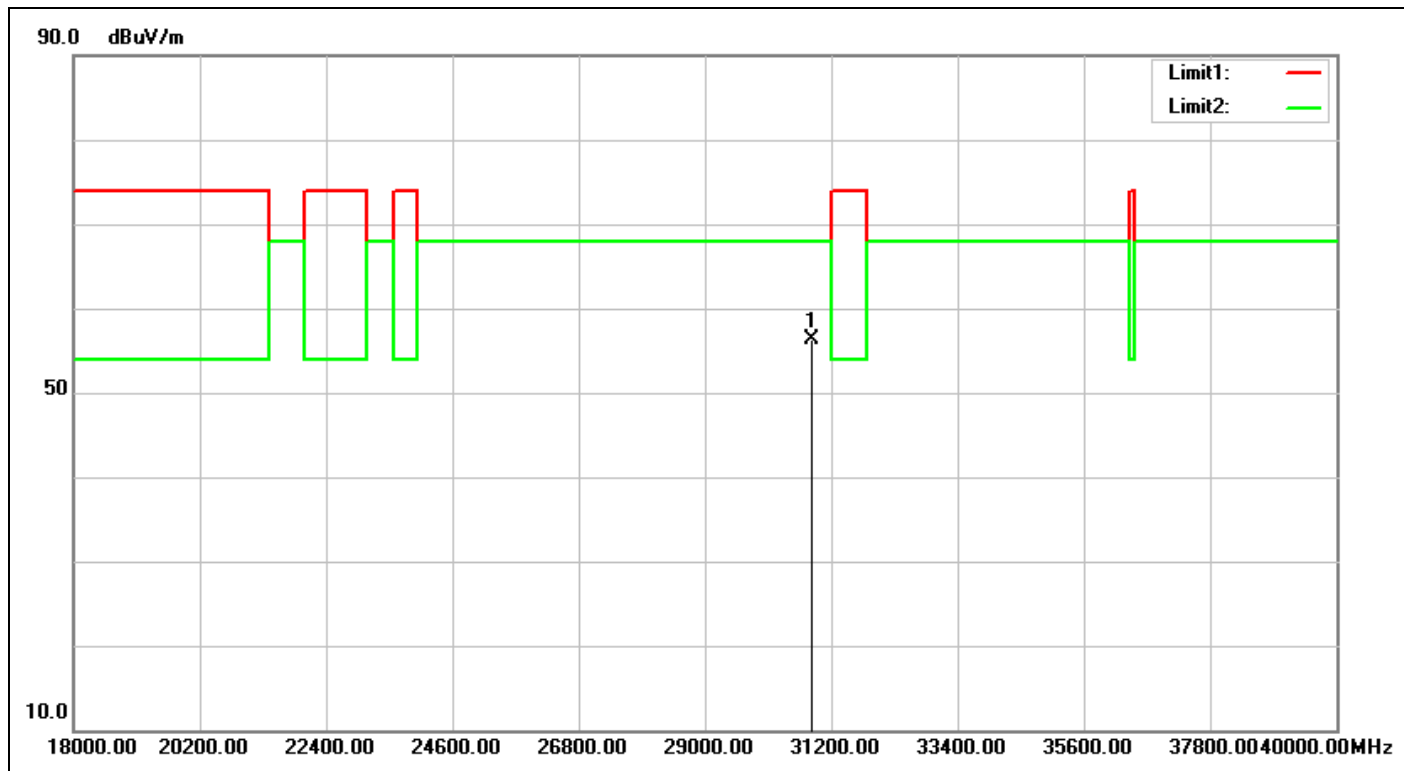
# Spurious Emissions, TX Mode, 18-40G , 5150-5250MHz



**TUV Rheinland Taiwan Ltd.**

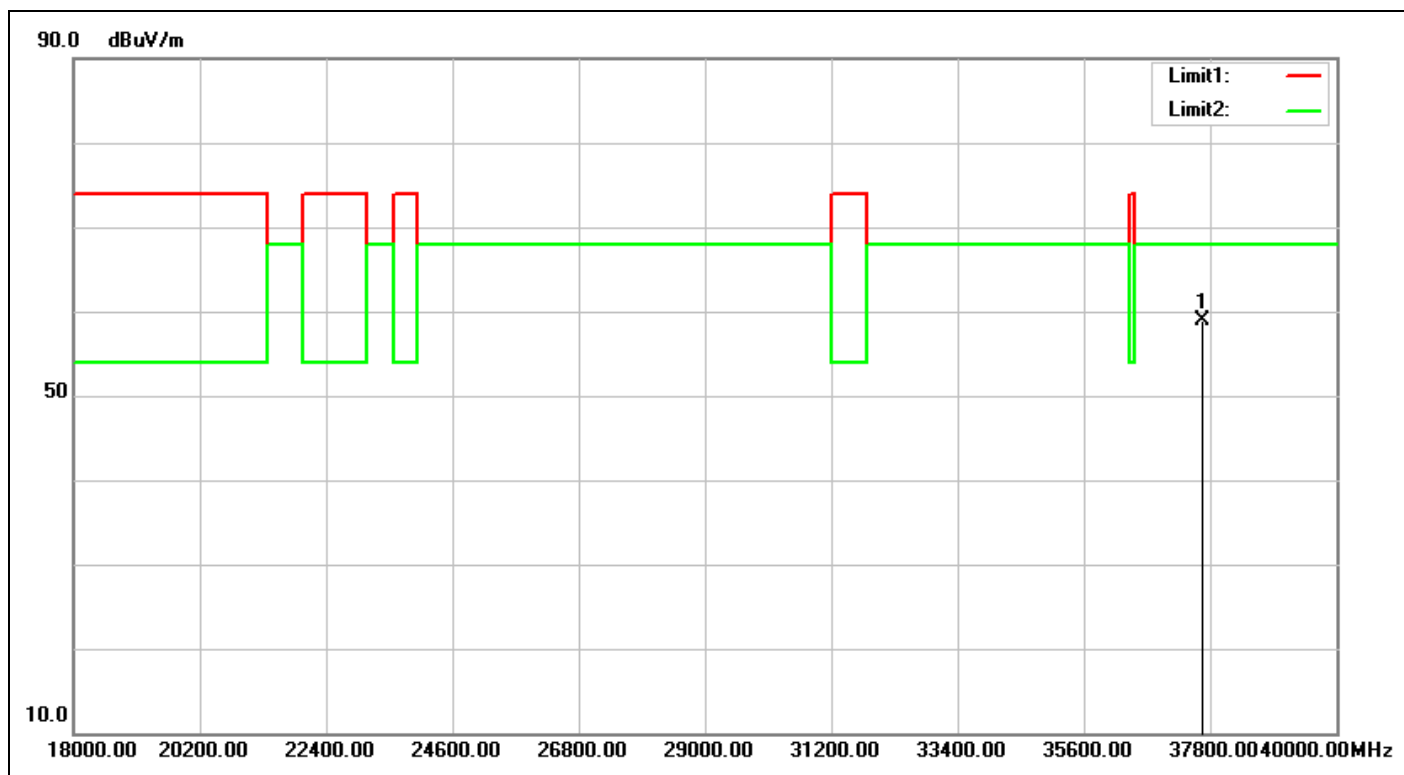
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



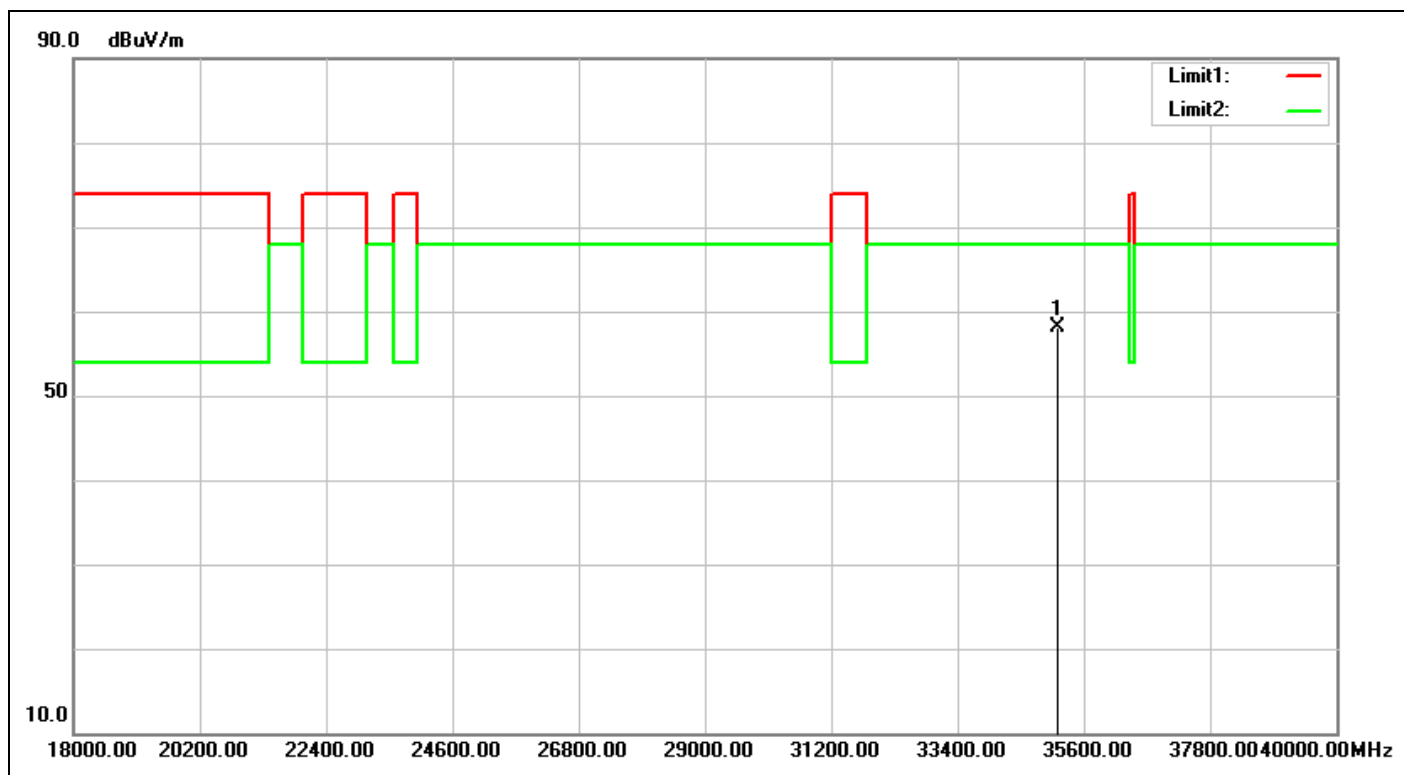
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:04:49</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5180-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 30848.000          | 38.63            | 17.60             | 56.23             | 68.00             | -11.77         | peak |                |                  |        |



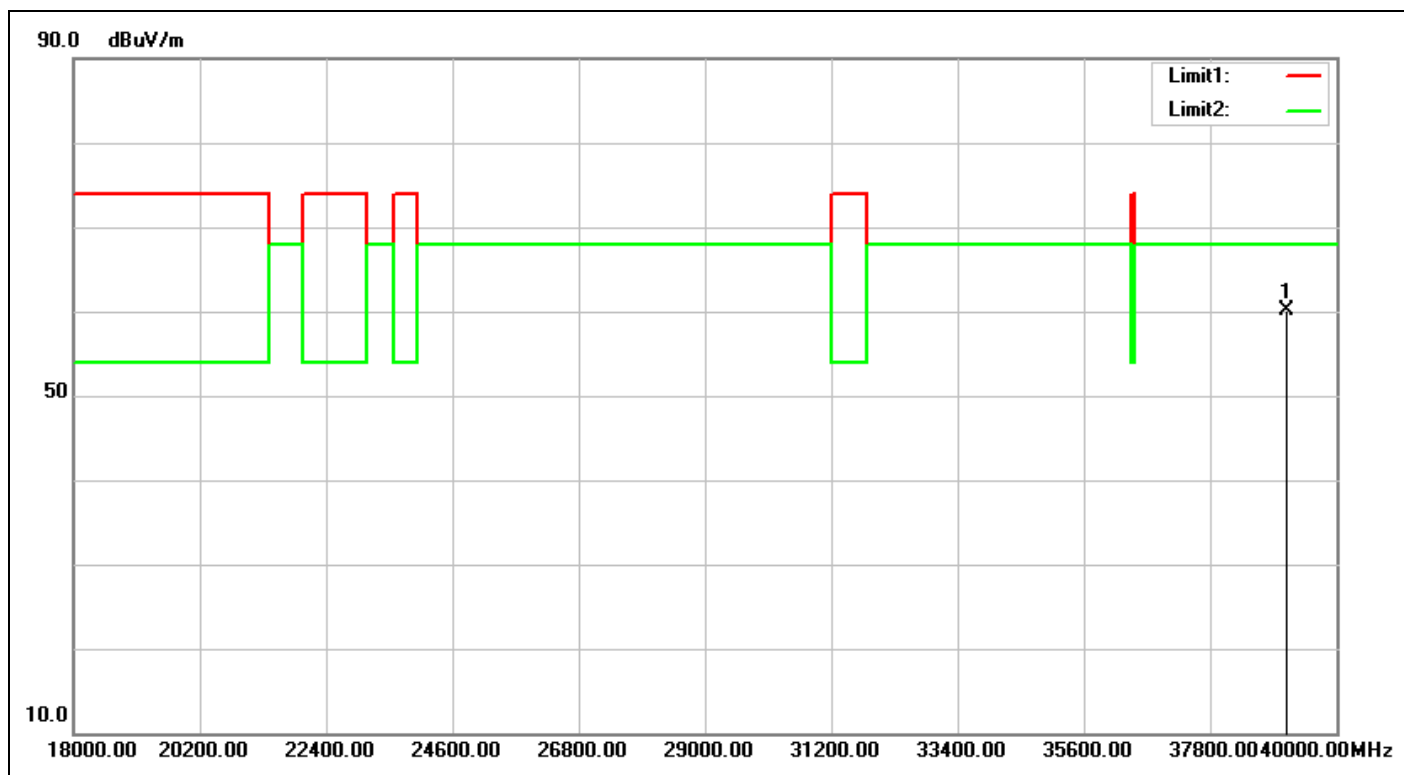
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:04:59 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5180-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 37668.000       | 39.70         | 19.14          | 58.84          | 68.00          | -9.16       | peak |             |             |        |



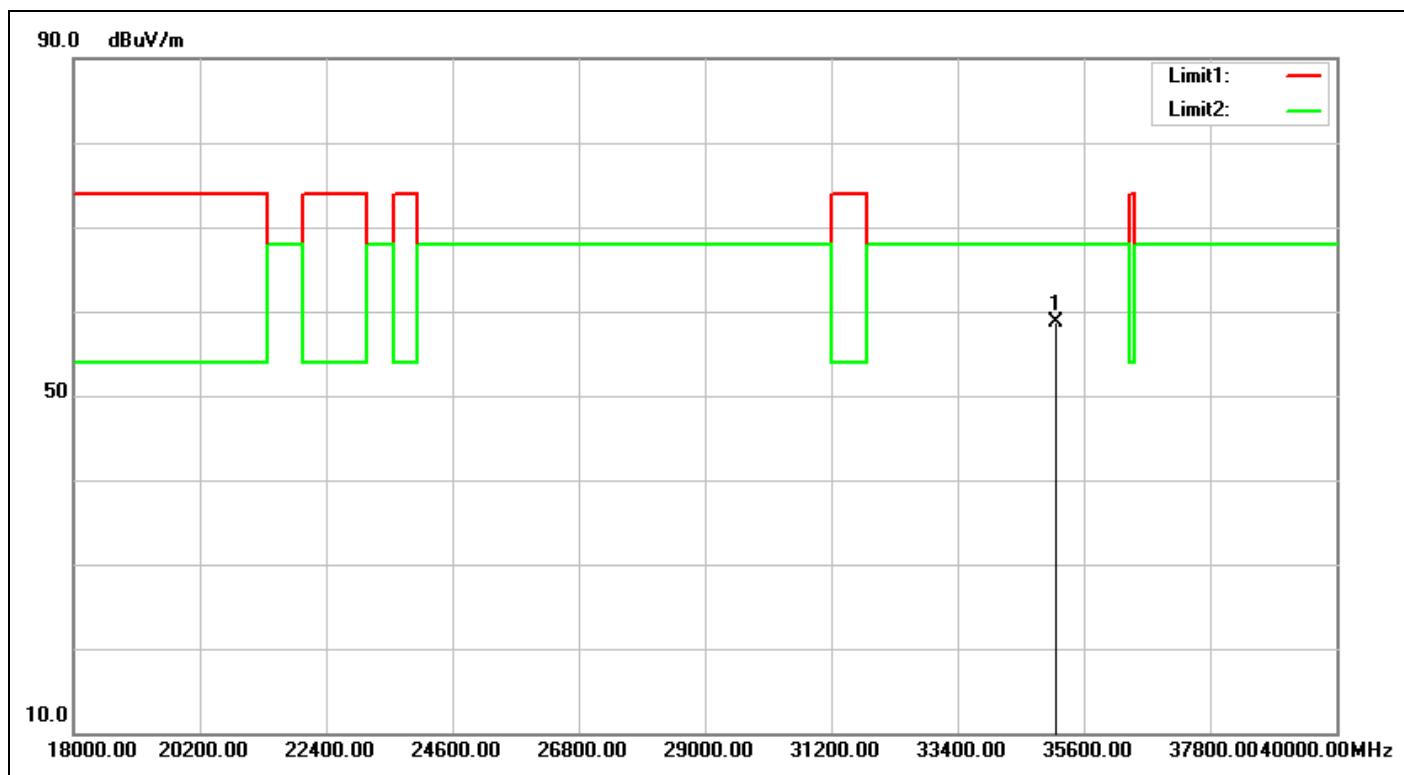
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:05:15 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5200-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35138.000       | 39.86         | 18.25          | 58.11          | 68.00          | -9.89       | peak |             |               |        |



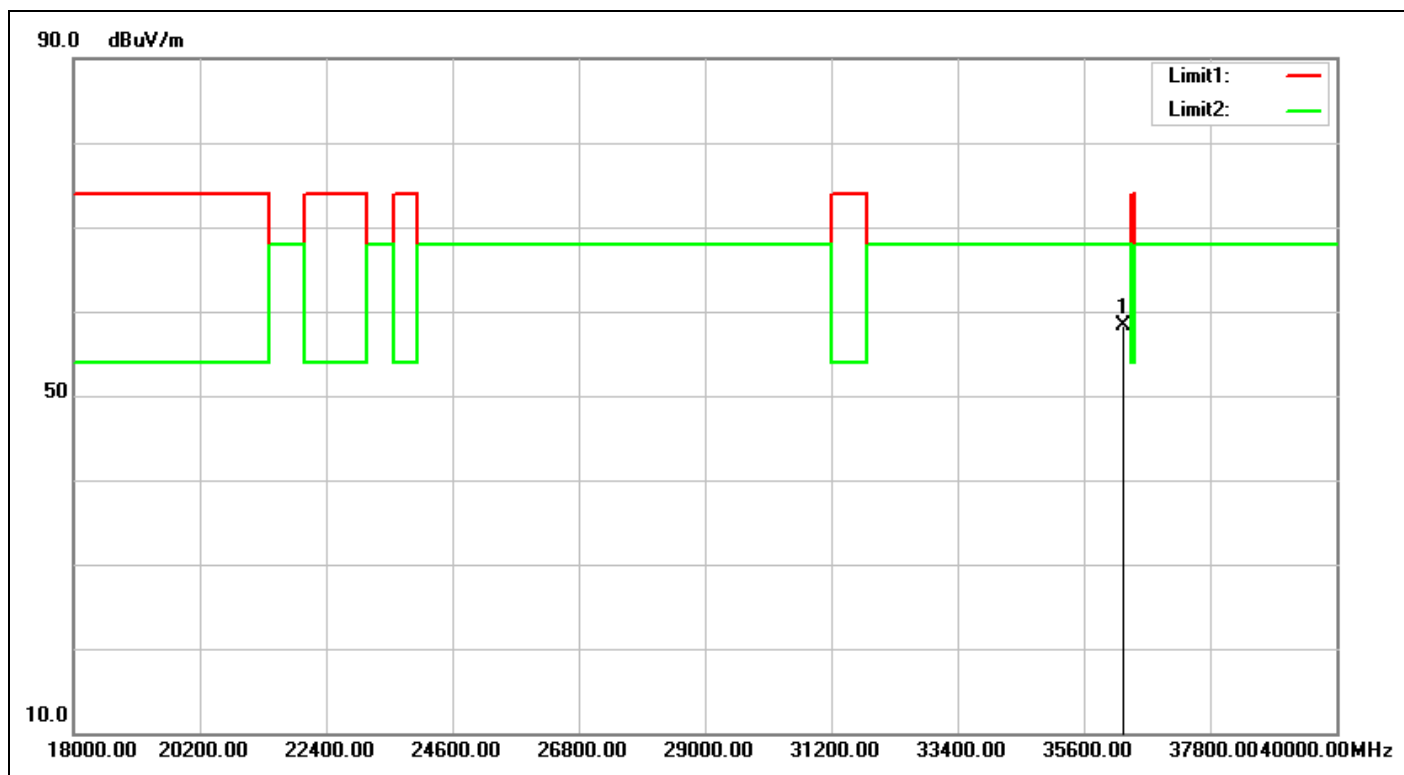
|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b> | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/16 16:05:22</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b>  | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>        |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39120.000          | 39.97            | 20.12             | 60.09             | 68.00             | -7.91          | peak |                |                  |        |



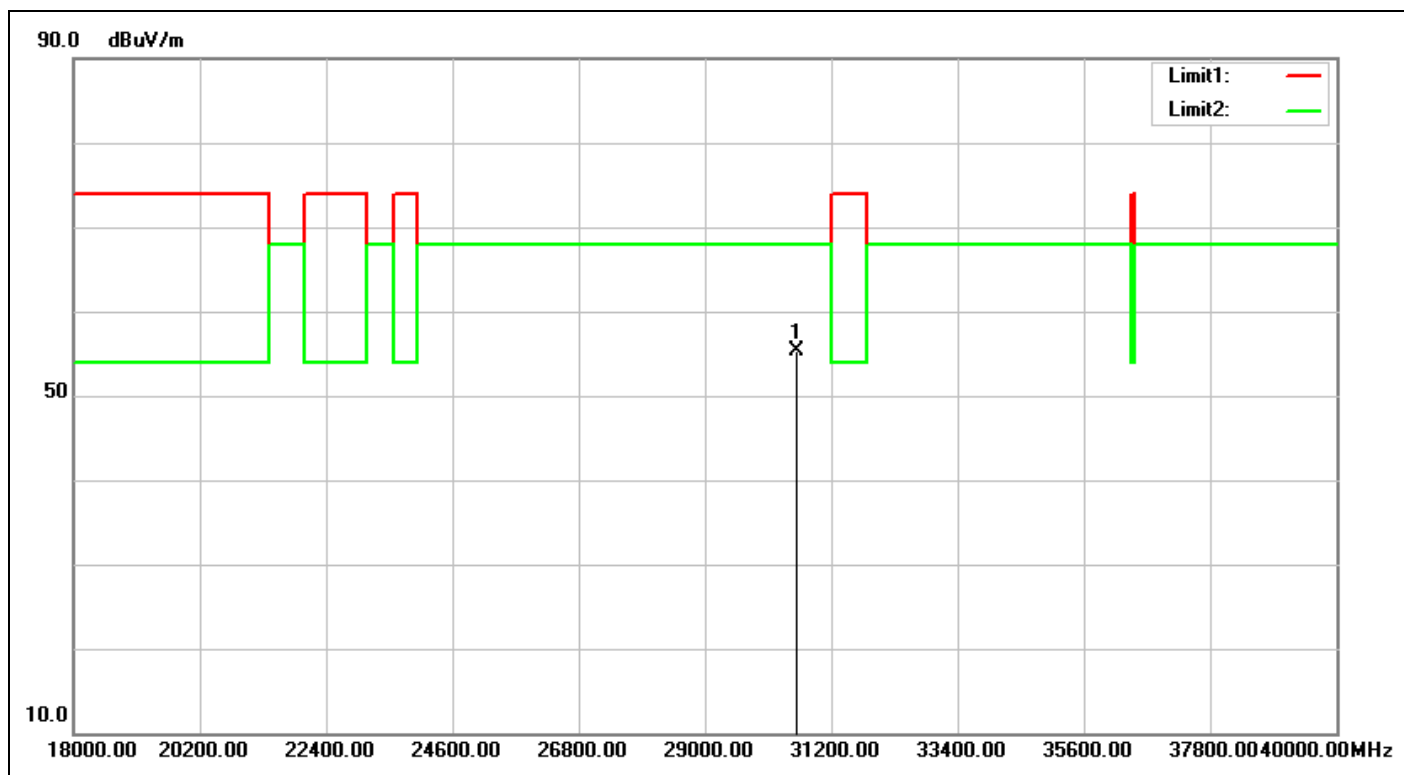
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:05:37 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5220-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35116.000       | 39.90         | 18.71          | 58.61          | 68.00          | -9.39       | peak |             |               |        |



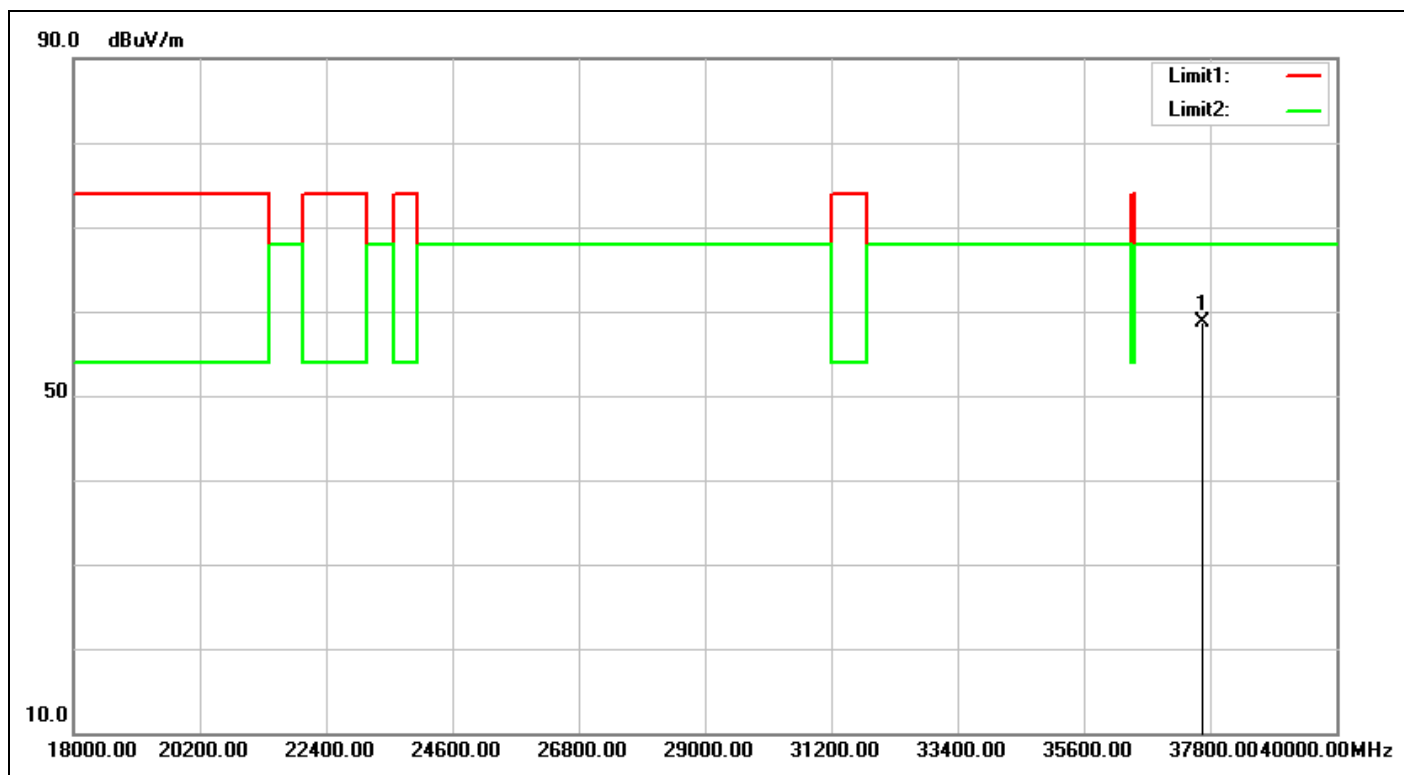
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:05:44</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 36282.000          | 39.88            | 18.42             | 58.30             | 68.00             | -9.70          | peak |                |                  |        |



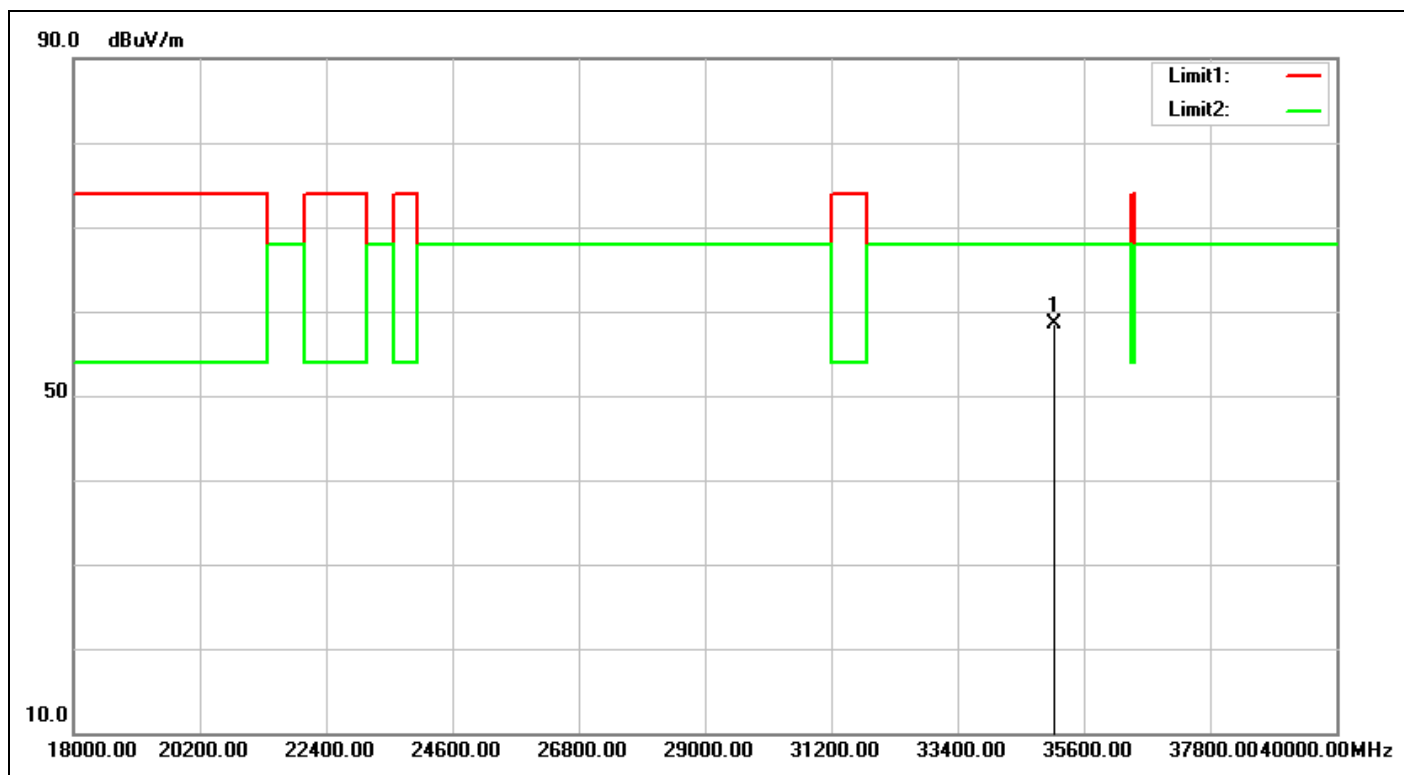
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:05:58 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5240-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30584.000       | 38.22         | 17.05          | 55.27          | 68.00          | -12.73      | peak |             |               |        |



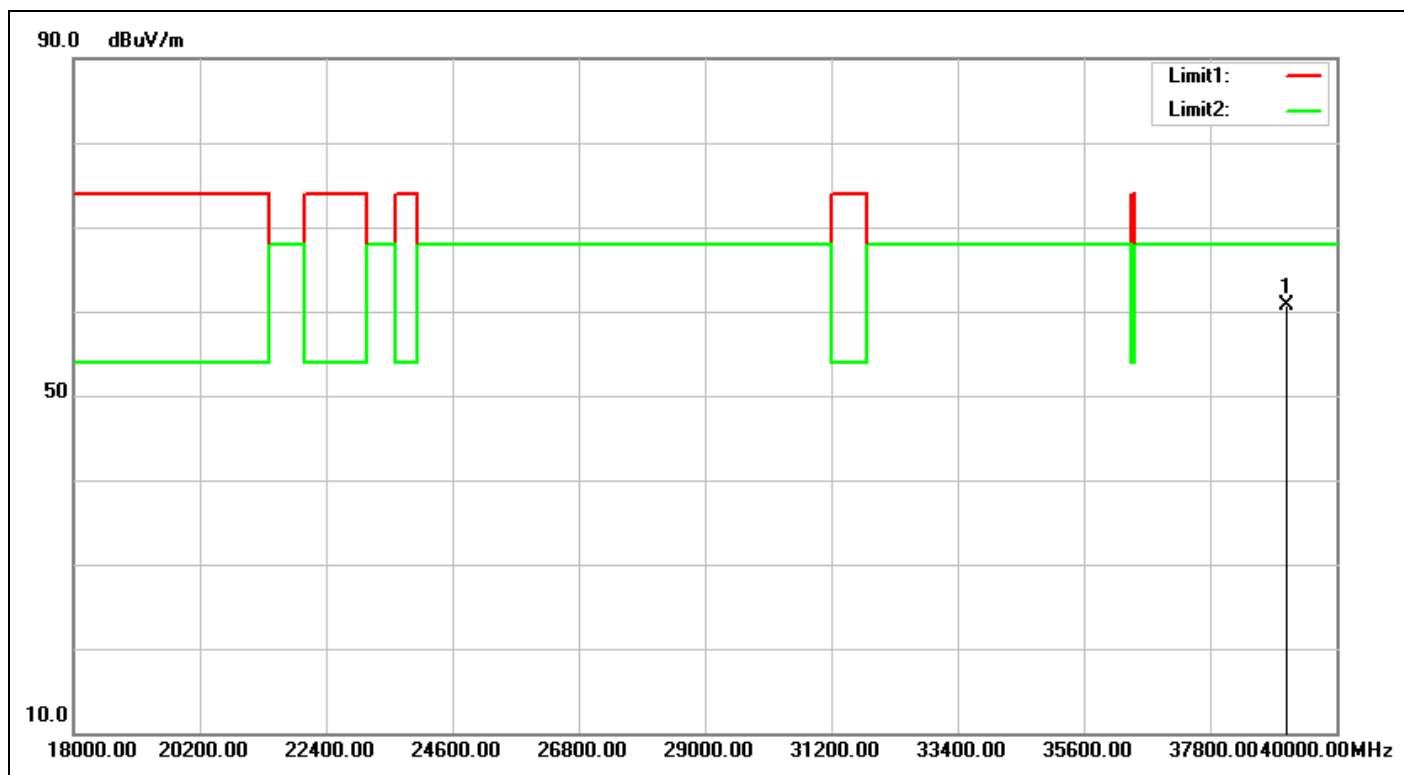
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:06:07 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5240-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 37668.000       | 39.70         | 18.99          | 58.69          | 68.00          | -9.31       | peak |             |               |        |



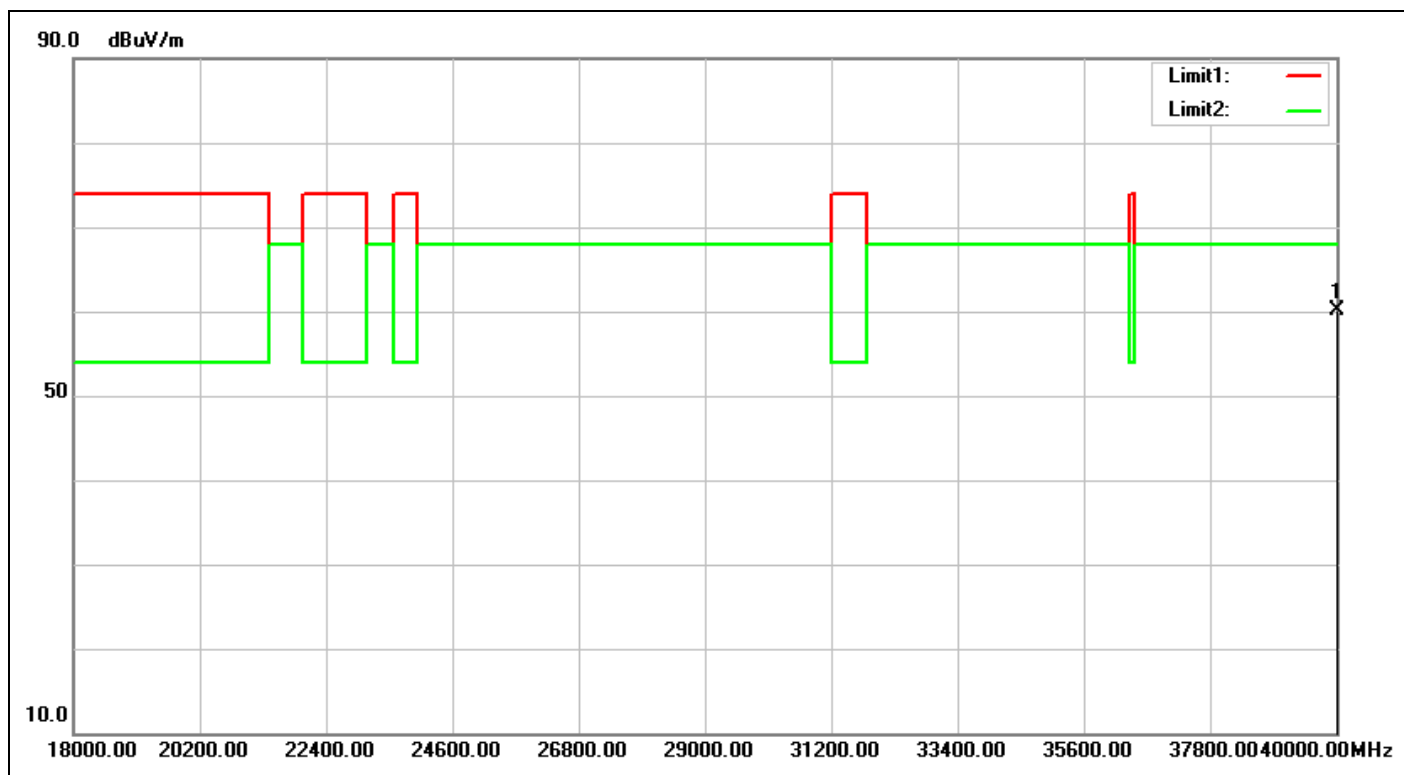
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:06:25 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5180-TX       |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35094.000       | 39.93         | 18.67          | 58.60          | 68.00          | -9.40       | peak |             |               |        |



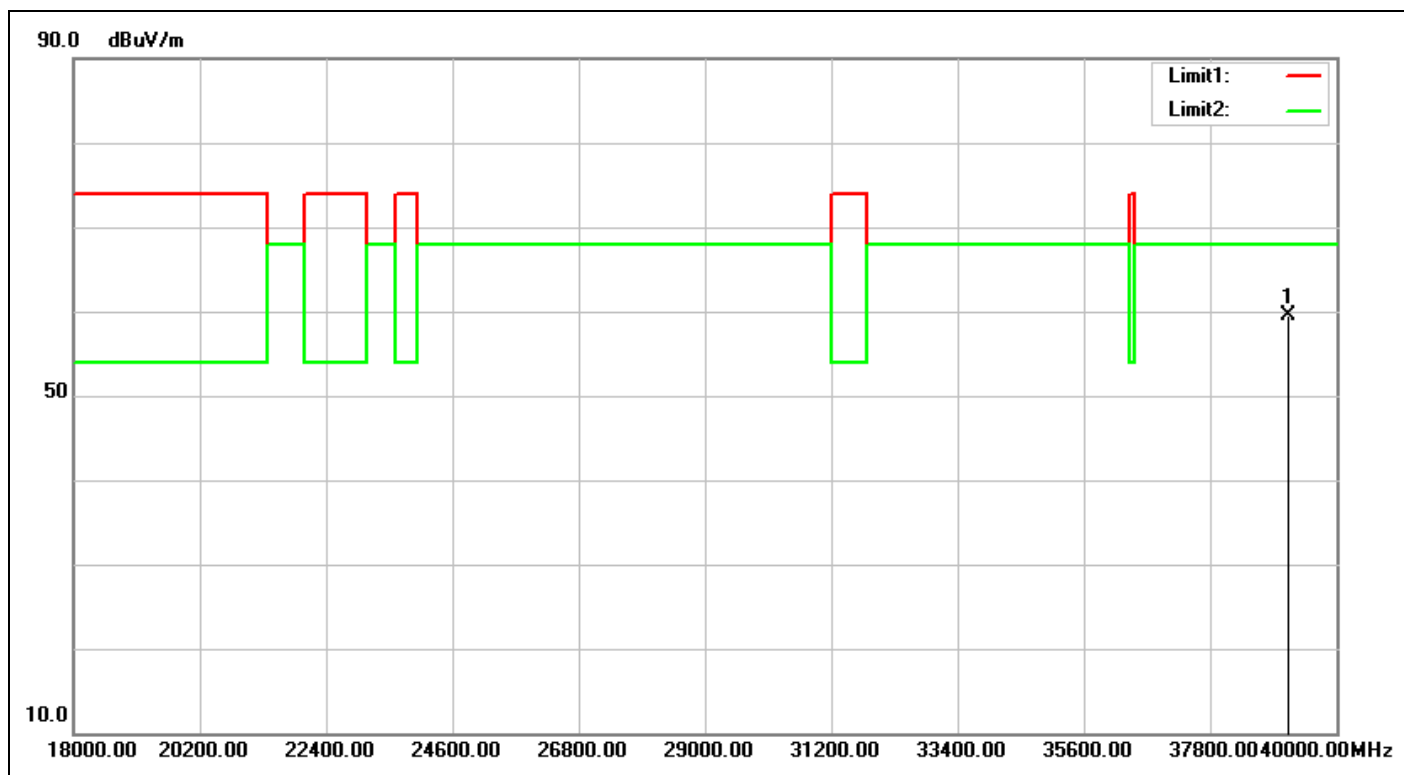
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:06:33</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5180-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39142.000          | 40.05            | 20.75             | 60.80             | 68.00             | -7.20          | peak |                |                  |        |



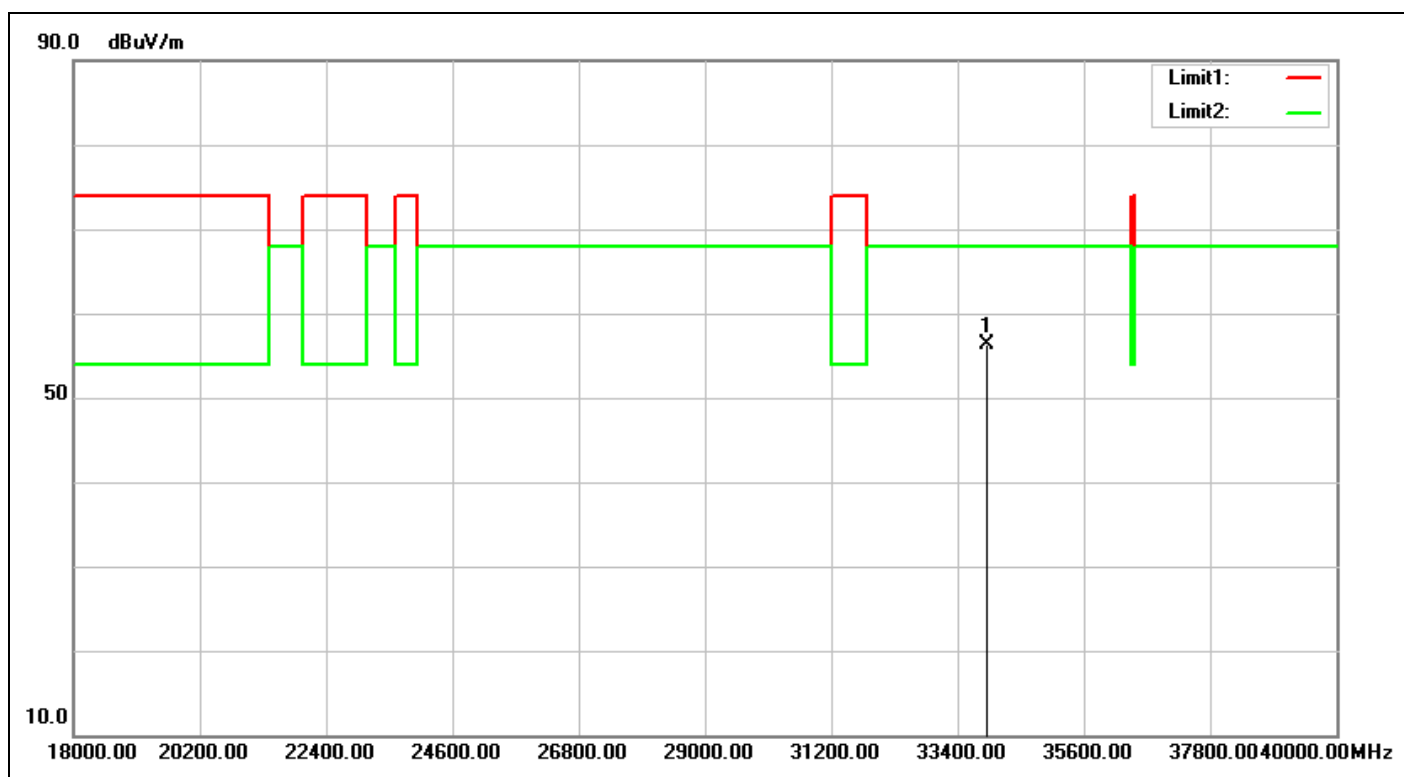
|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b> | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/16 16:06:46</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b>  | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5200-TX</b>       |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 40000.000          | 42.89            | 17.13             | 60.02             | 68.00             | -7.98          | peak |                |                  |        |



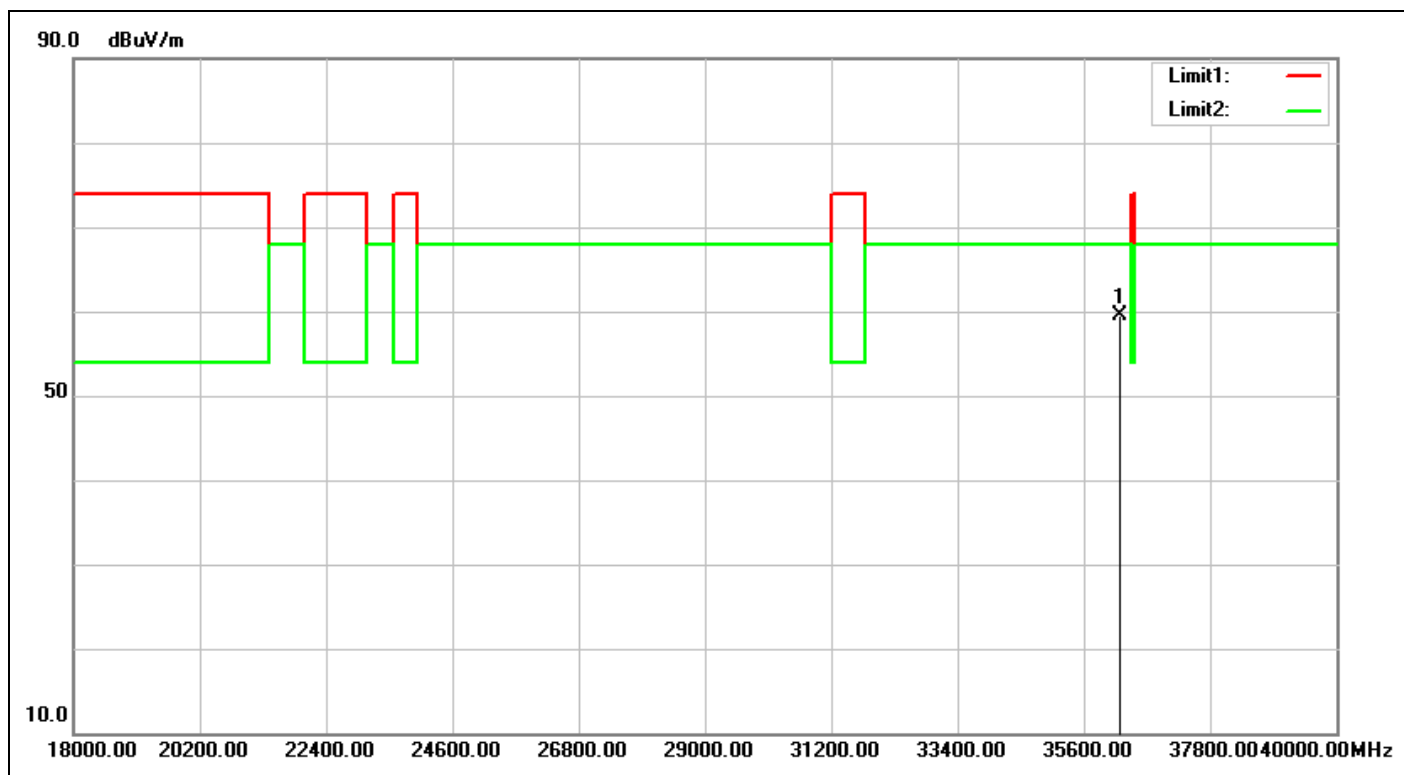
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:06:50</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5200-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39164.000          | 40.14            | 19.42             | 59.56             | 68.00             | -8.44          | peak |                |                  |        |



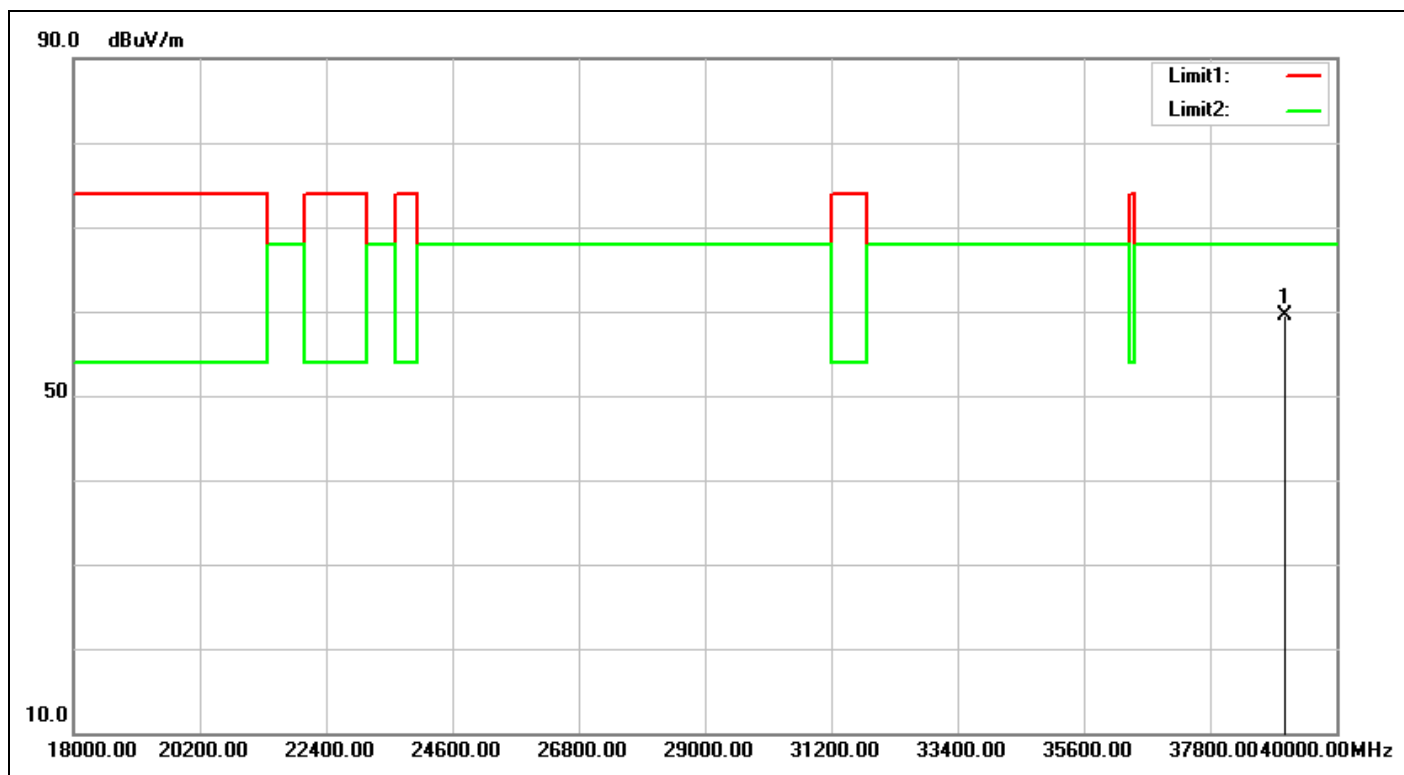
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:07:11</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5220-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 33906.000          | 39.56            | 16.67             | 56.23             | 68.00             | -11.77         | peak |                |                  |        |



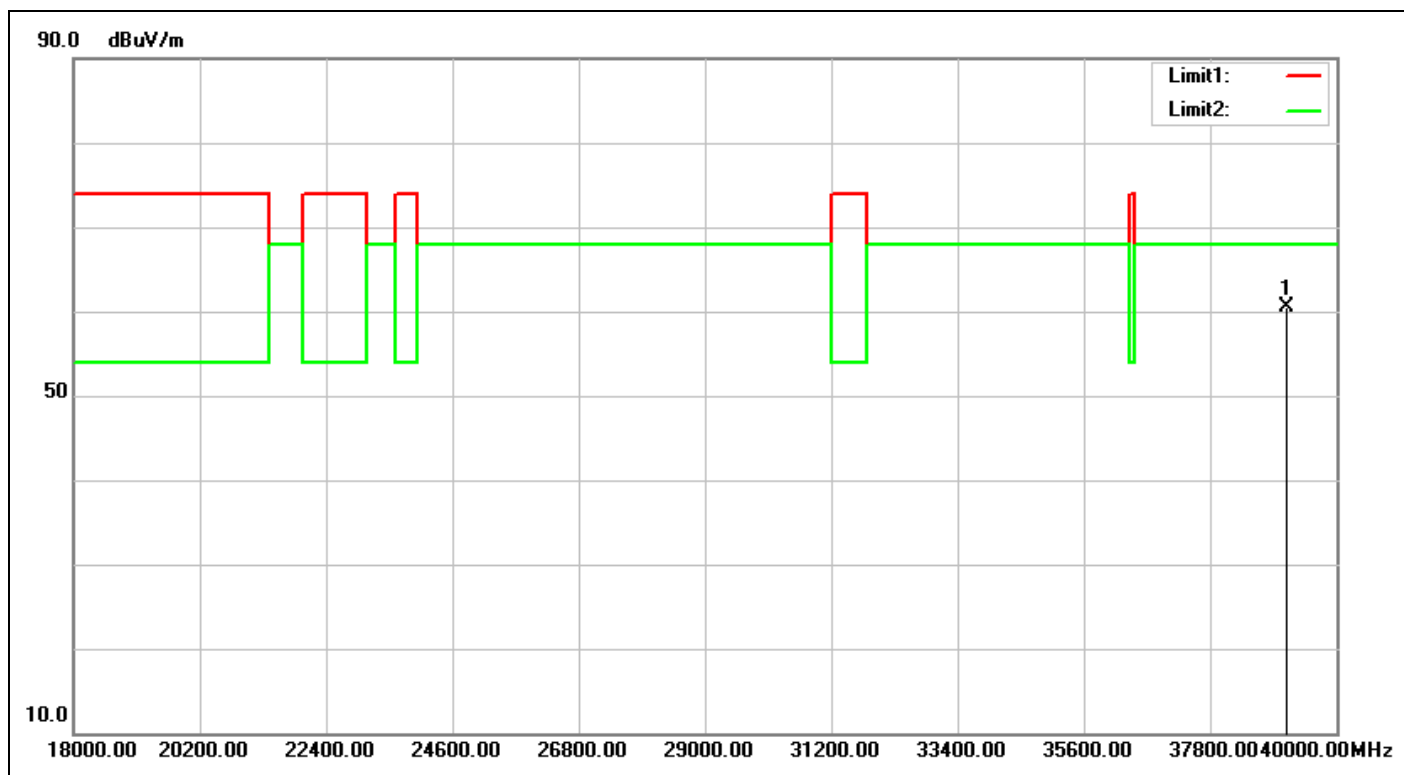
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:07:20 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5220-TX       |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 36238.000          | 39.86            | 19.70             | 59.56             | 68.00             | -8.44          | peak |                |                  |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:07:32</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5240-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39098.000          | 39.88            | 19.70             | 59.58             | 68.00             | -8.42          | peak |                |                  |        |



|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b> | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/16 16:07:44</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b>  | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5240-TX</b>       |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39120.000          | 39.97            | 20.49             | 60.46             | 68.00             | -7.54          | peak |                |                  |        |

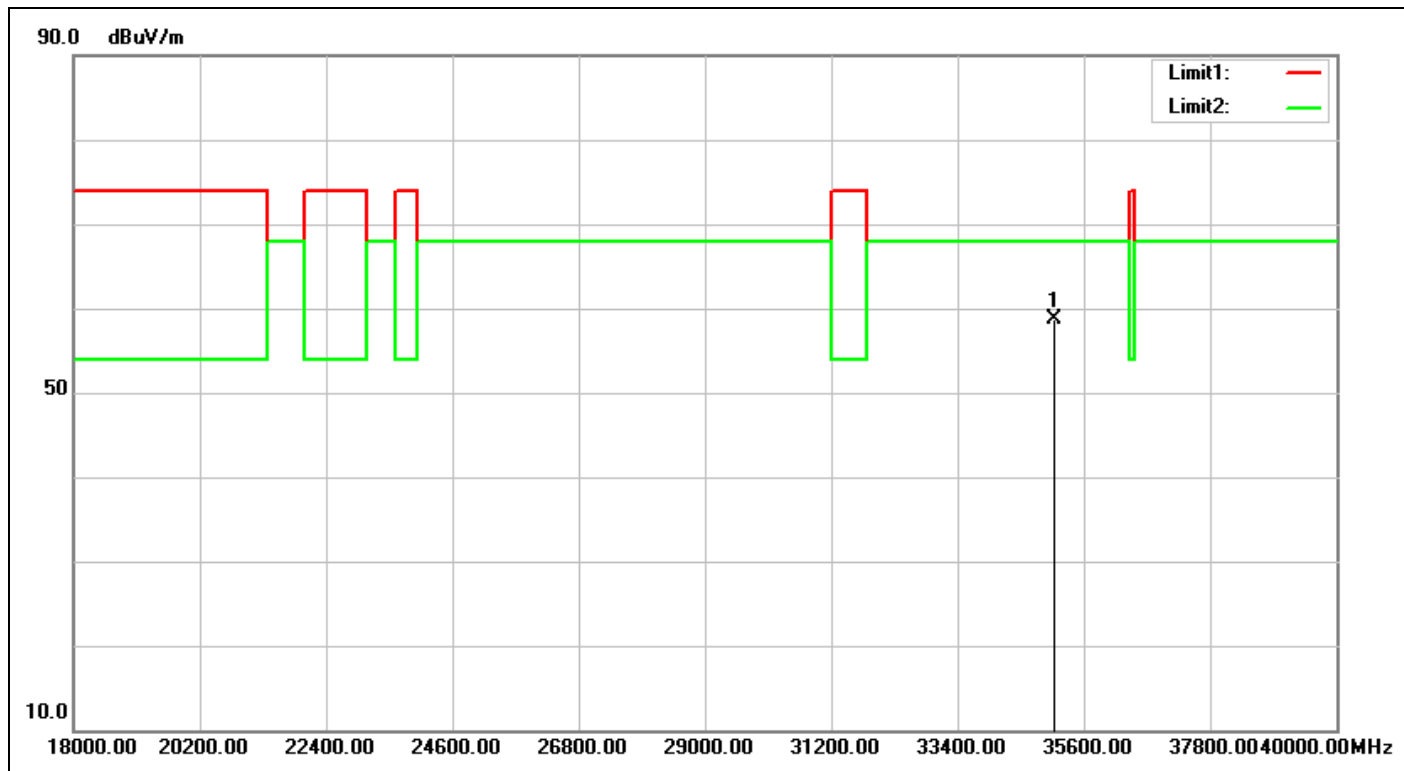
# Spurious Emissions, TX Mode, 18-40G , 5725-5850MHz



**TUV Rheinland Taiwan Ltd.**

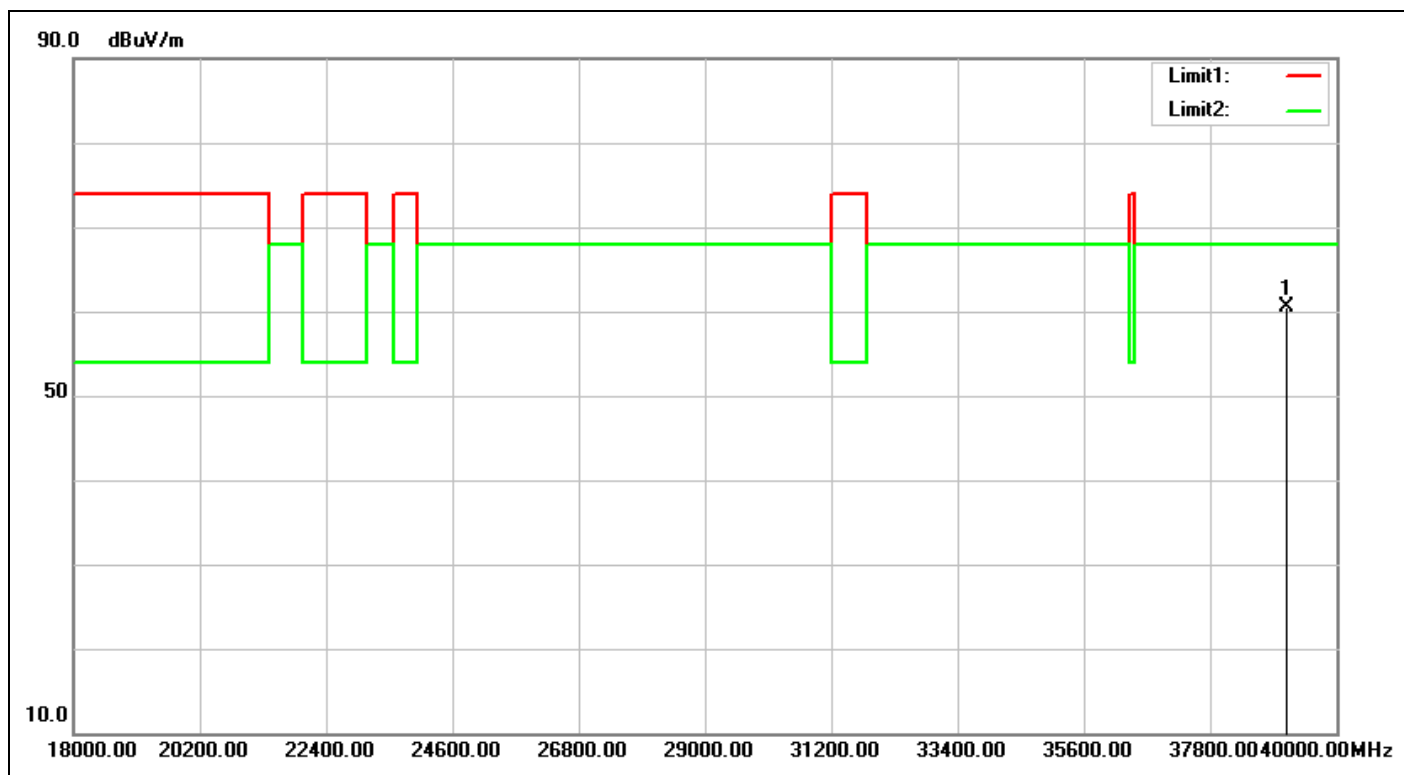
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



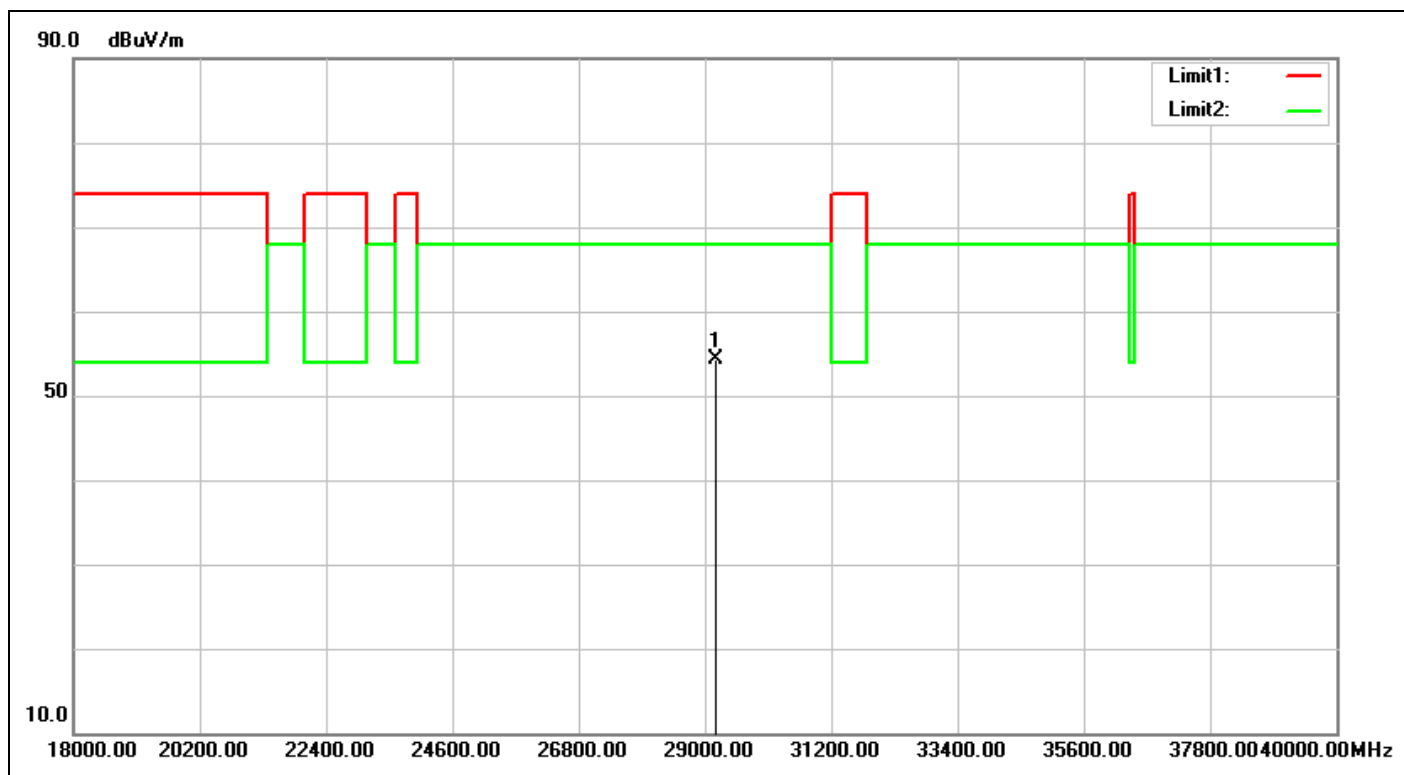
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:08:22</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5745-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 35094.000          | 39.93            | 18.72             | 58.65             | 68.00             | -9.35          | peak |                |                  |        |



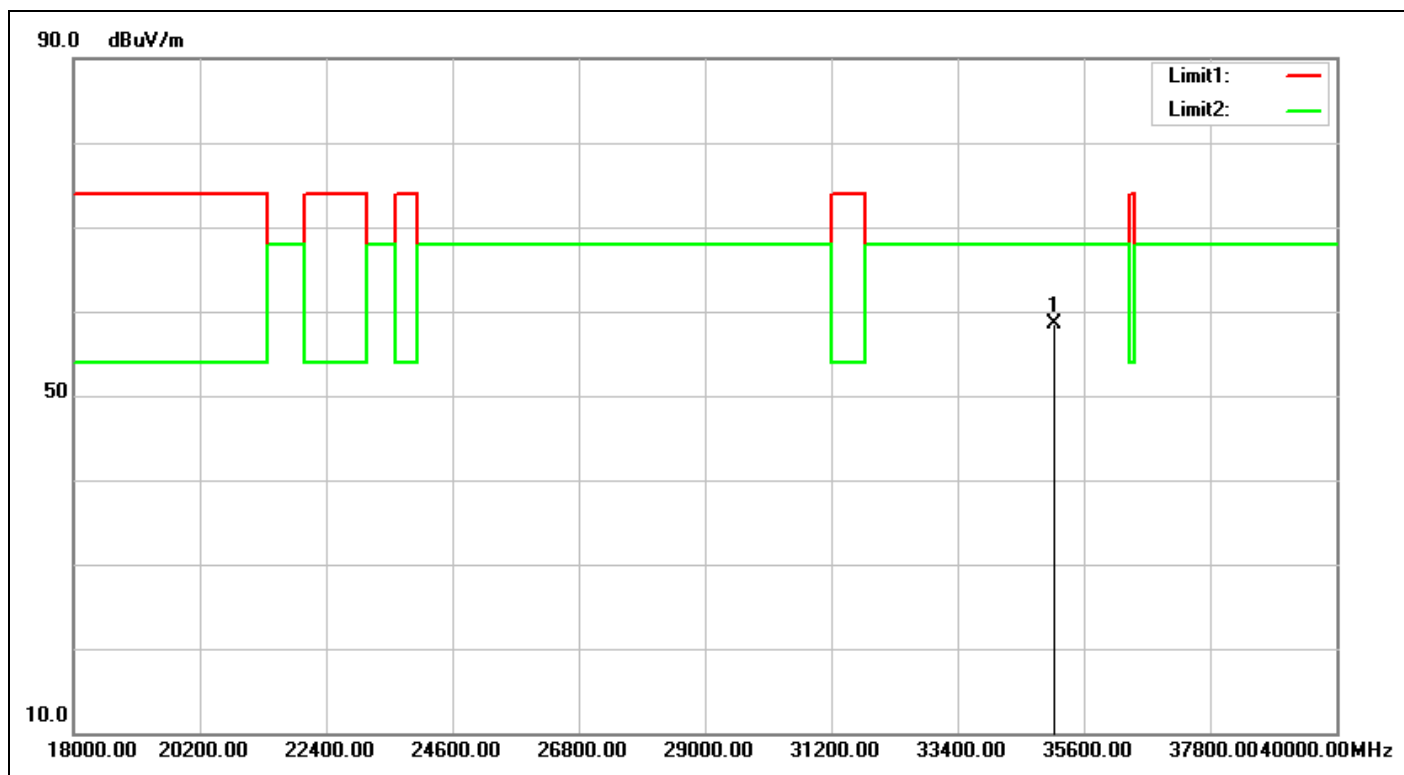
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:08:31 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5745-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39142.000          | 40.05            | 20.38             | 60.43             | 68.00             | -7.57          | peak |                |                  |        |



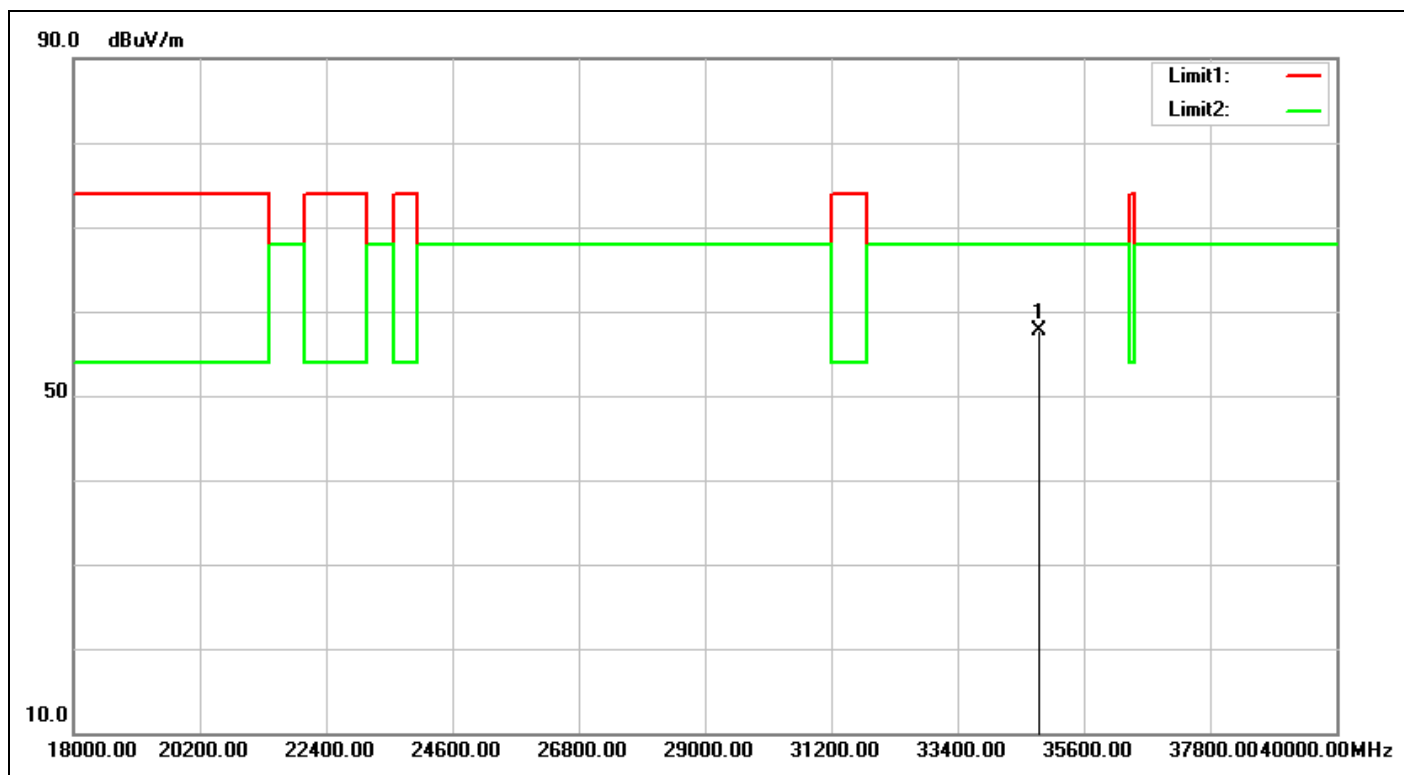
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:08:43 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5785-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 29176.000       | 36.99         | 17.38          | 54.37          | 68.00          | -13.63      | peak |             |               |        |



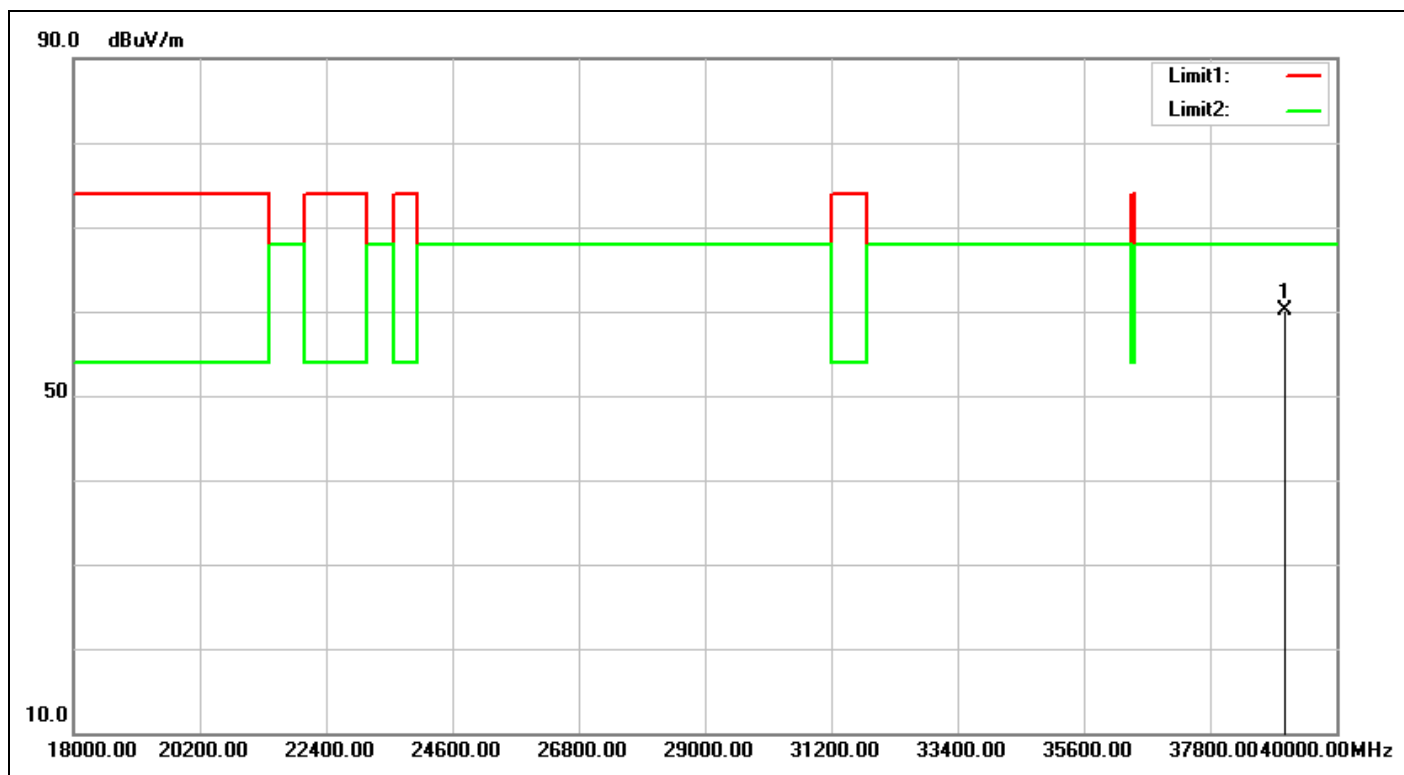
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:08:52</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 35094.000          | 39.93            | 18.53             | 58.46             | 68.00             | -9.54          | peak |                |                  |        |



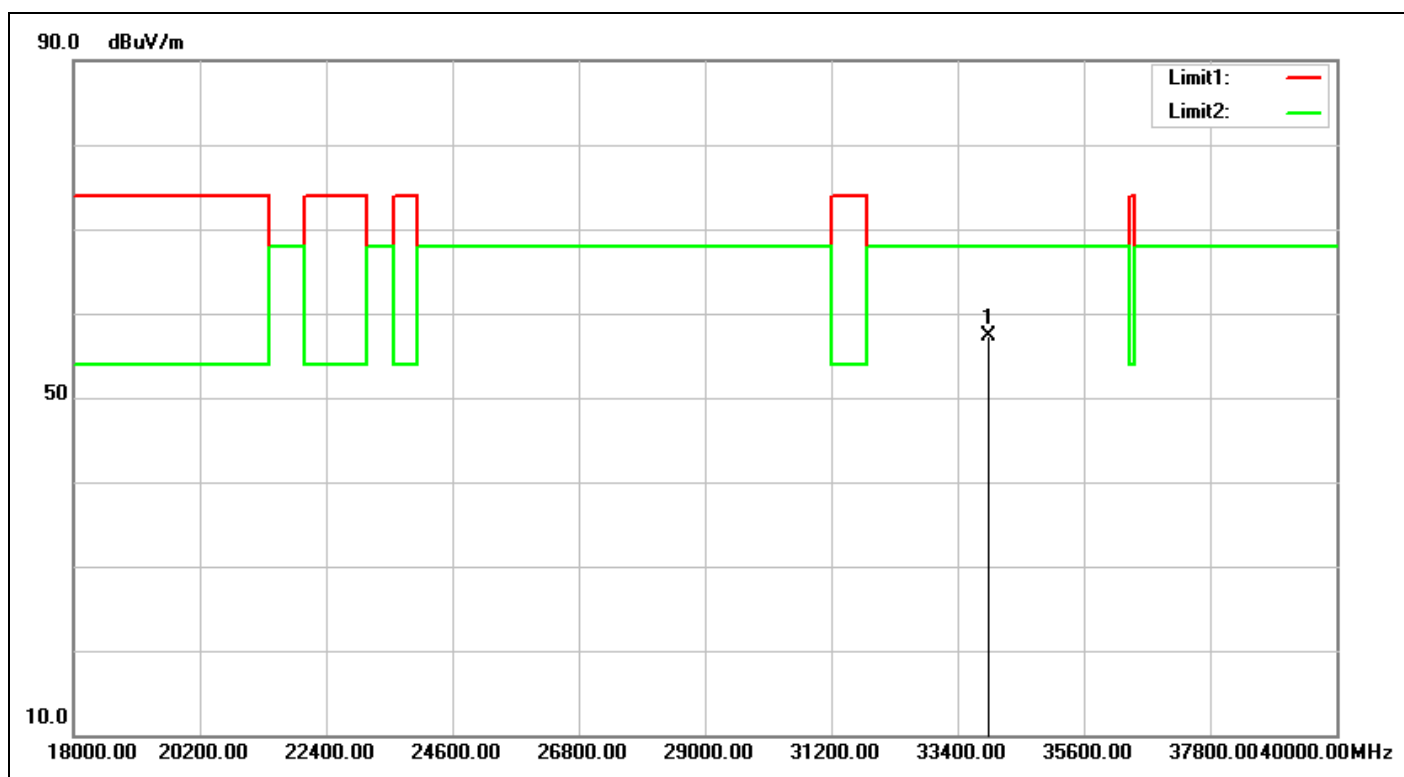
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:09:06 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5825-TX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 34808.000       | 39.85         | 17.78          | 57.63          | 68.00          | -10.37      | peak |             |               |        |



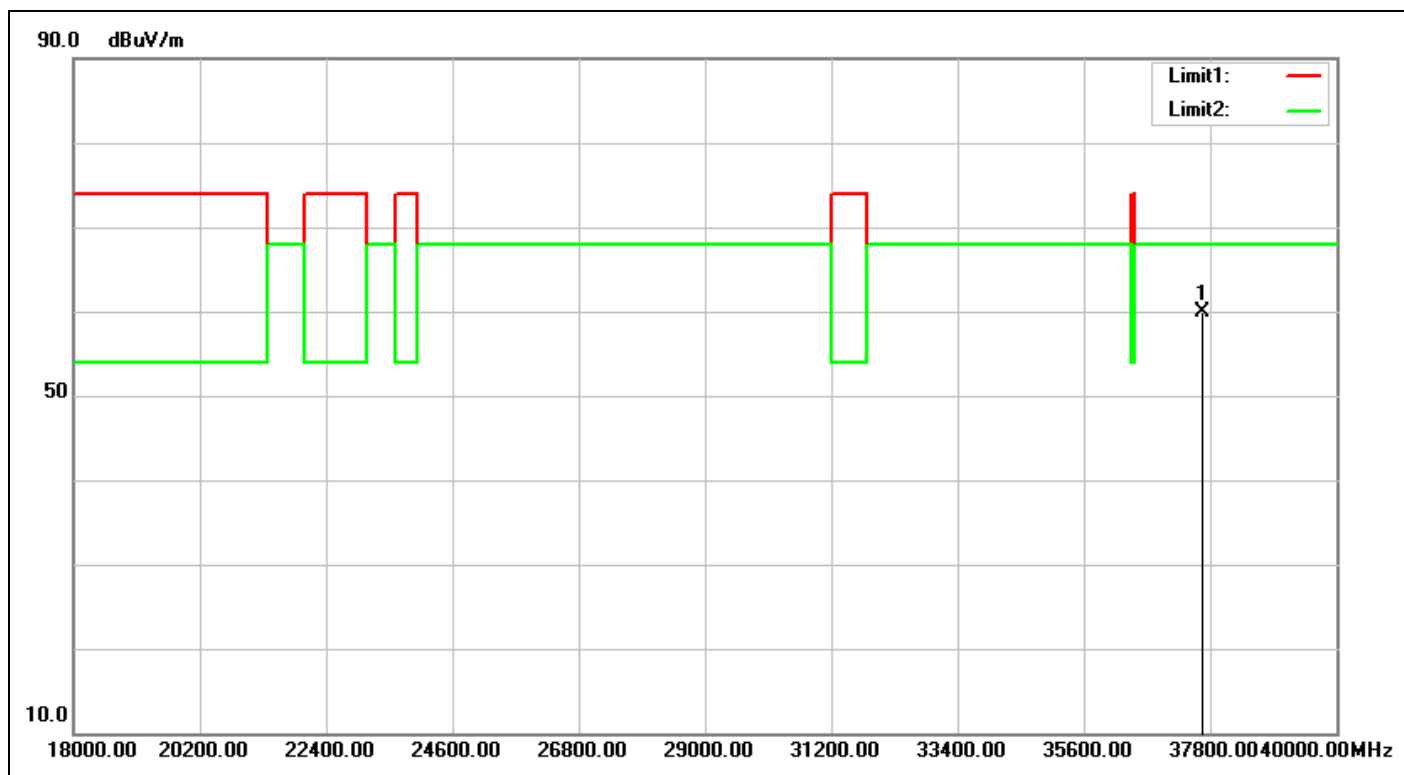
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:09:15</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5825-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39098.000          | 39.88            | 20.25             | 60.13             | 68.00             | -7.87          | peak |                |                  |        |



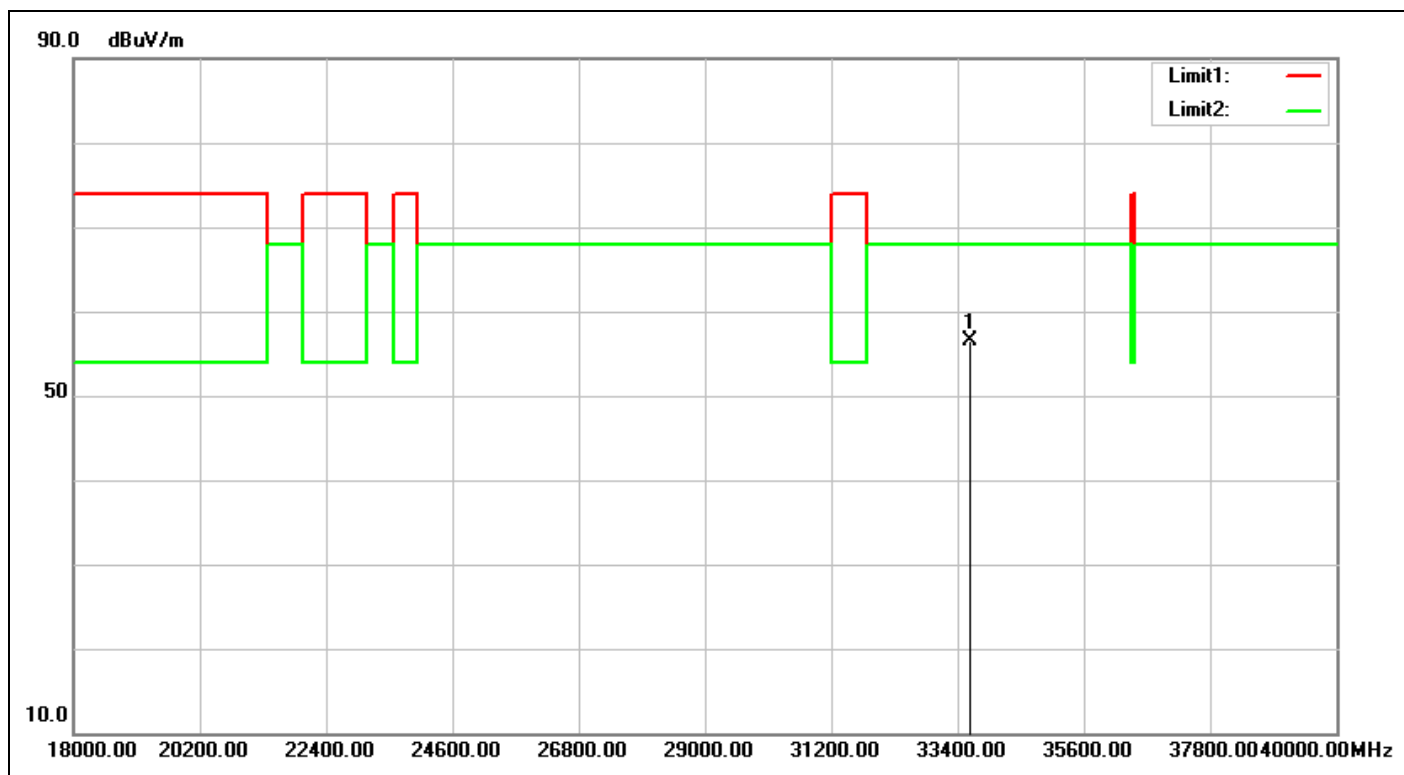
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:09:36 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5745-TX       |                    |                    |
| Remark:        |                    |                    |                    |

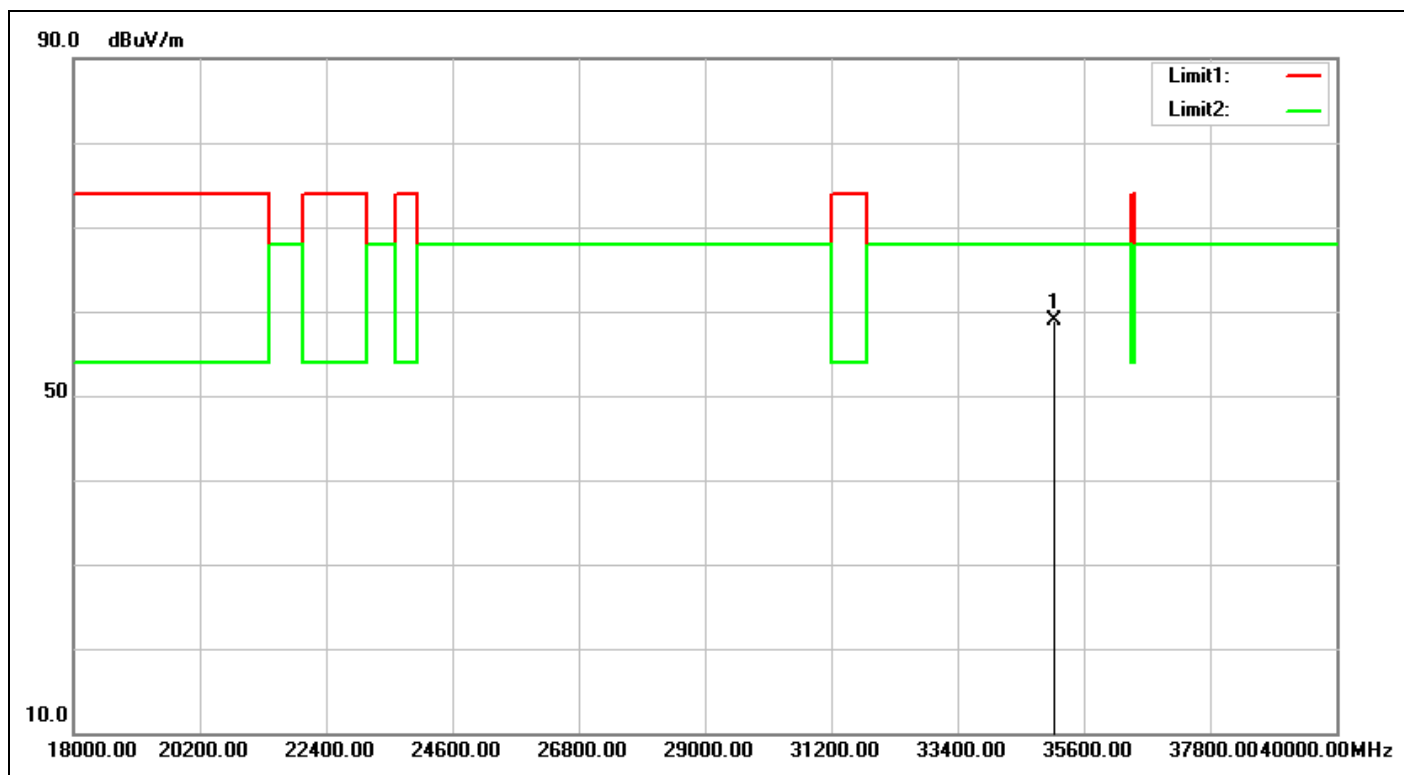
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 33928.000       | 39.58         | 17.81          | 57.39          | 68.00          | -10.61      | peak |             |             |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:09:47</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>AC20-5745-TX</b>       |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

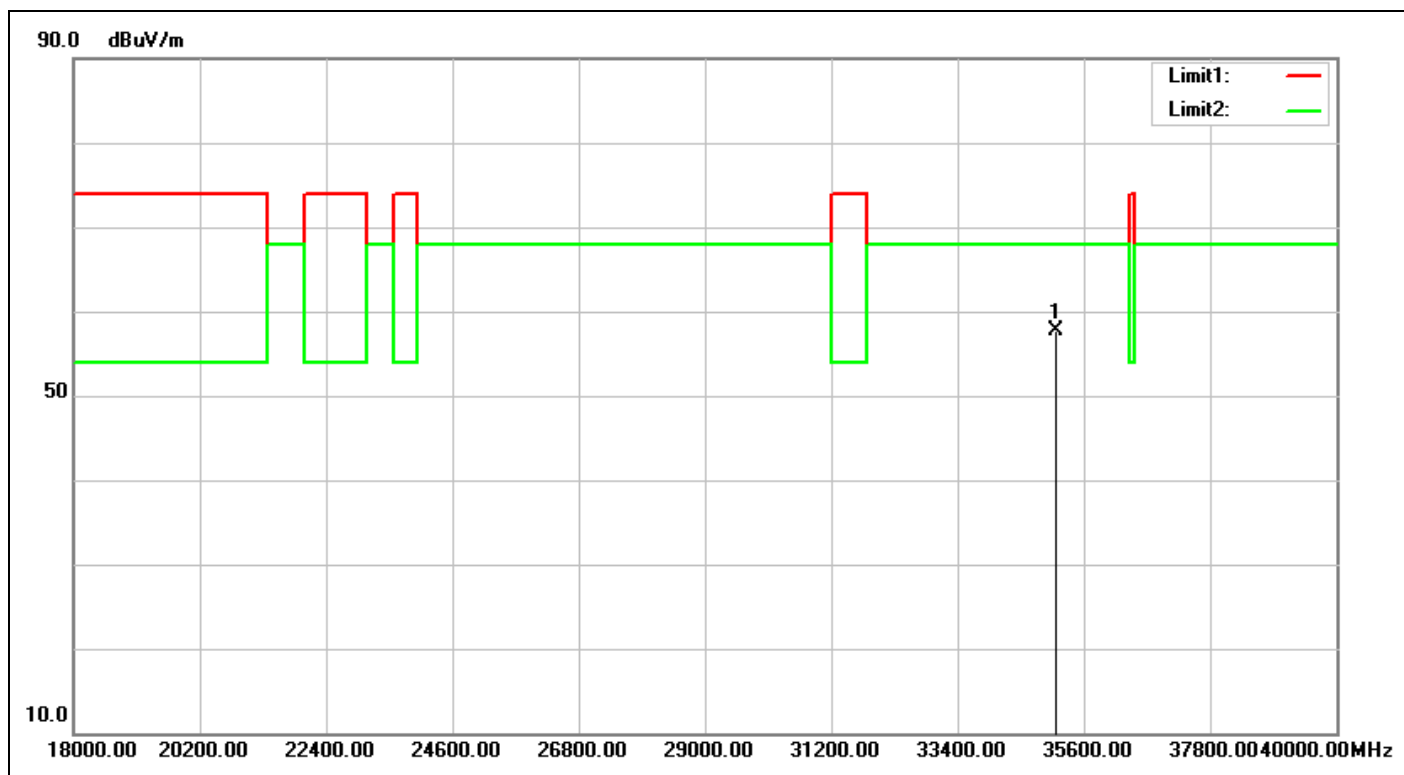
| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 37668.000          | 39.70            | 20.23             | 59.93             | 68.00             | -8.07          | peak |                |                  |        |





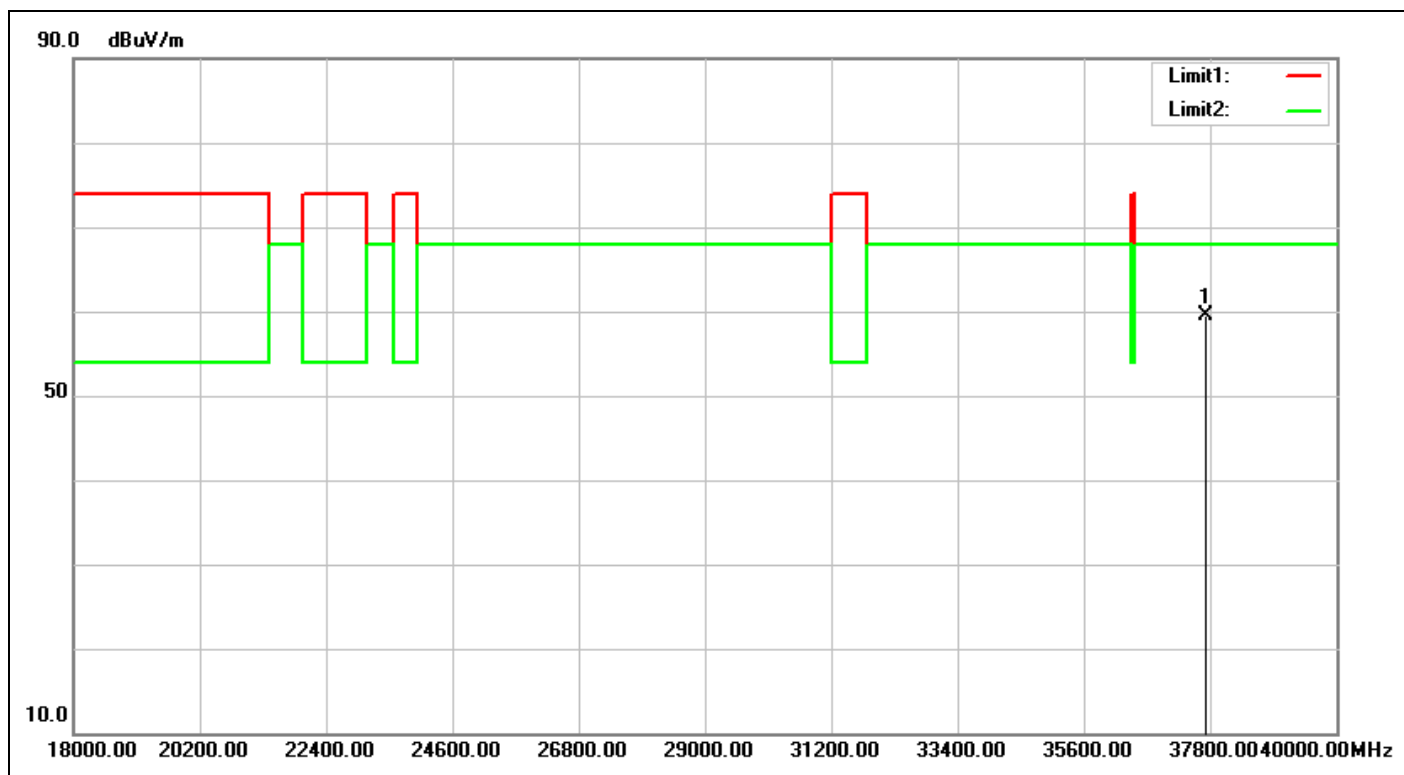
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:10:08 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5785-TX       |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35072.000       | 39.97         | 18.84          | 58.81          | 68.00          | -9.19       | peak |             |               |        |



|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:10:21 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5825-TX       |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35116.000       | 39.90         | 17.88          | 57.78          | 68.00          | -10.22      | peak |             |               |        |



|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Vertical           |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:10:30 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | AC20-5825-TX       |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 37734.000       | 39.64         | 19.88          | 59.52          | 68.00          | -8.48       | peak |             |             |        |

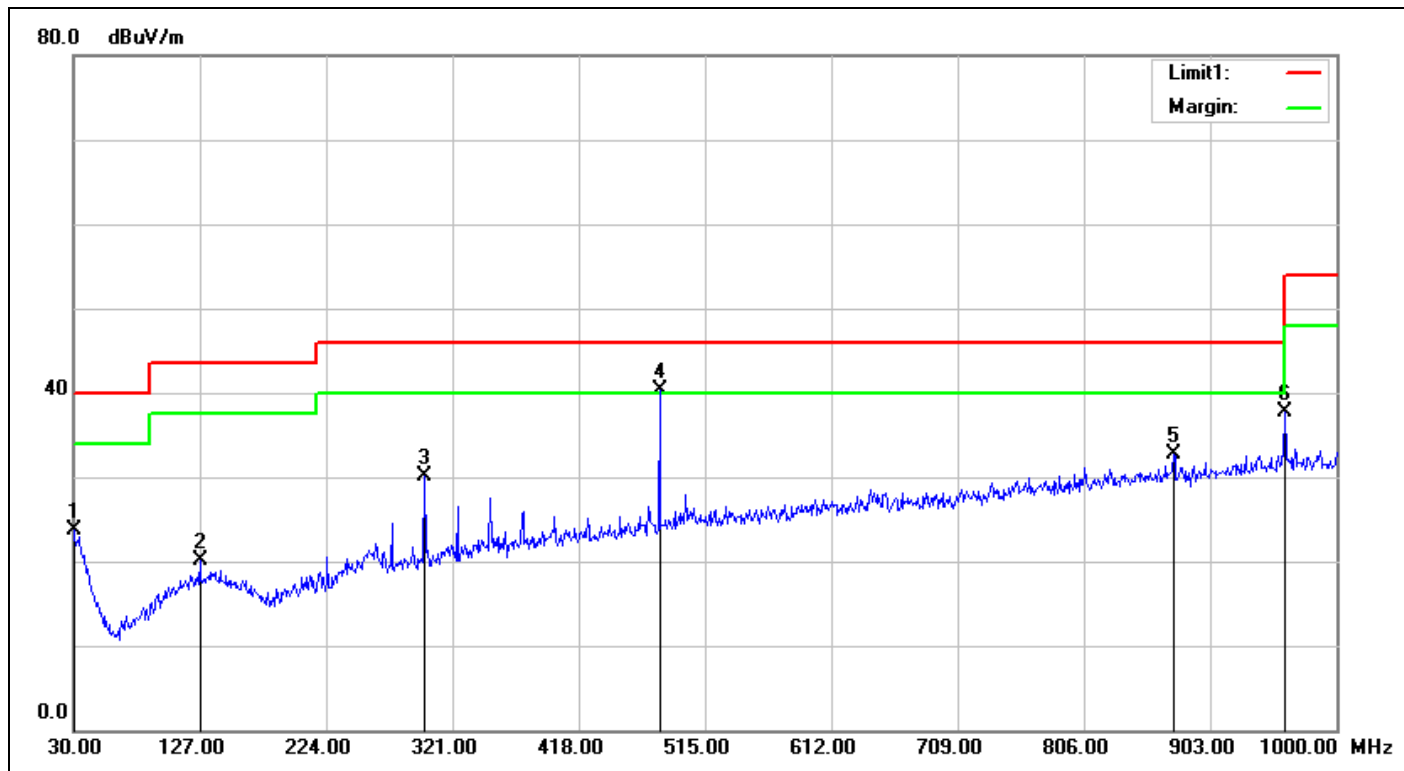
# Spurious Emissions, TX Mode, 30M-1G



**TUV Rheinland Taiwan Ltd.**

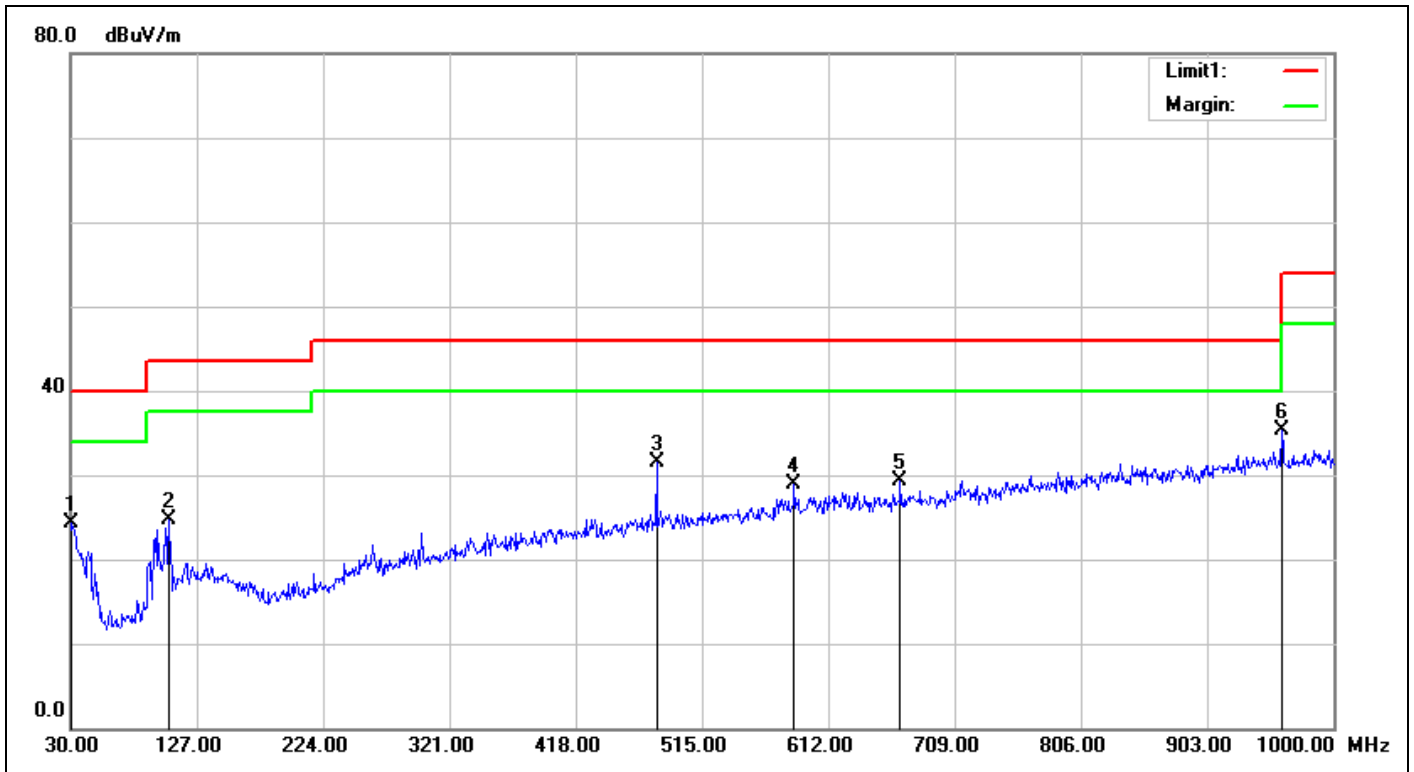
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



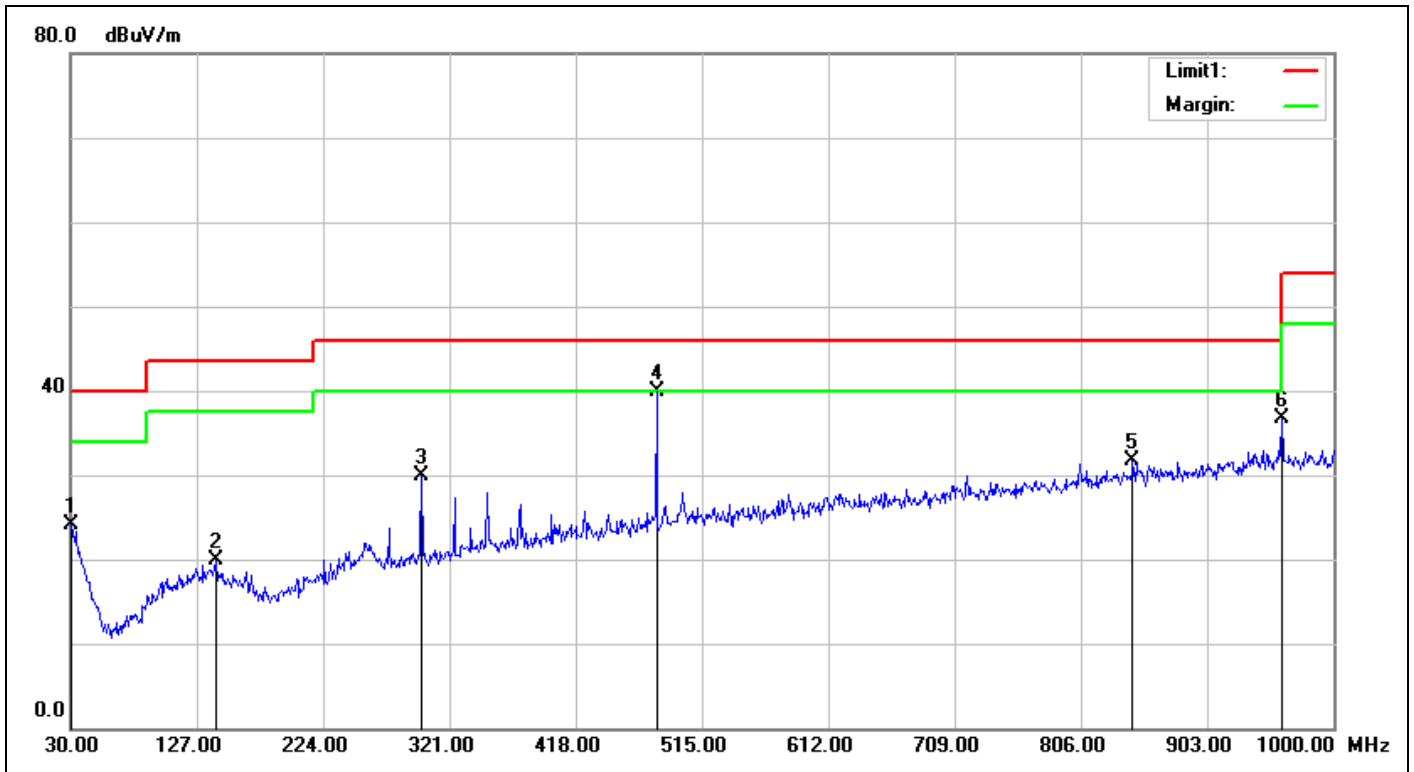
|                |                          |                    |                    |
|----------------|--------------------------|--------------------|--------------------|
| Service No.:   | 114068806                | Test Distance:     | 3m                 |
| Test Standard: | FCC Class B 3M Radiation | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission       | Test Time:         | 2017/8/15 14:28:44 |
| Applicant:     | TPCast                   | Test Rating:       | DC 5V              |
| Product:       | Power Box                | Temp.(°C)/Hum.(%)  | 23(°C)/57%         |
| Model No.:     | AD-2                     | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5200-TX              |                    |                    |
| Remark:        |                          |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 30.0000         | -1.31         | 25.10          | 23.79          | 40.00          | -16.21      | QP   | 100         | 144         |        |
| 2   | 127.0000        | -8.19         | 28.33          | 20.14          | 43.50          | -23.36      | QP   | 100         | 219         |        |
| 3   | 299.6600        | -5.72         | 35.74          | 30.02          | 46.00          | -15.98      | QP   | 100         | 293         |        |
| 4   | 480.0799        | -2.48         | 42.88          | 40.40          | 46.00          | -5.60       | QP   | 100         | 86          |        |
| 5   | 874.8700        | 3.48          | 29.14          | 32.62          | 46.00          | -13.38      | QP   | 100         | 227         |        |
| 6   | 960.2300        | 5.11          | 32.55          | 37.66          | 54.00          | -16.34      | QP   | 100         | 245         |        |



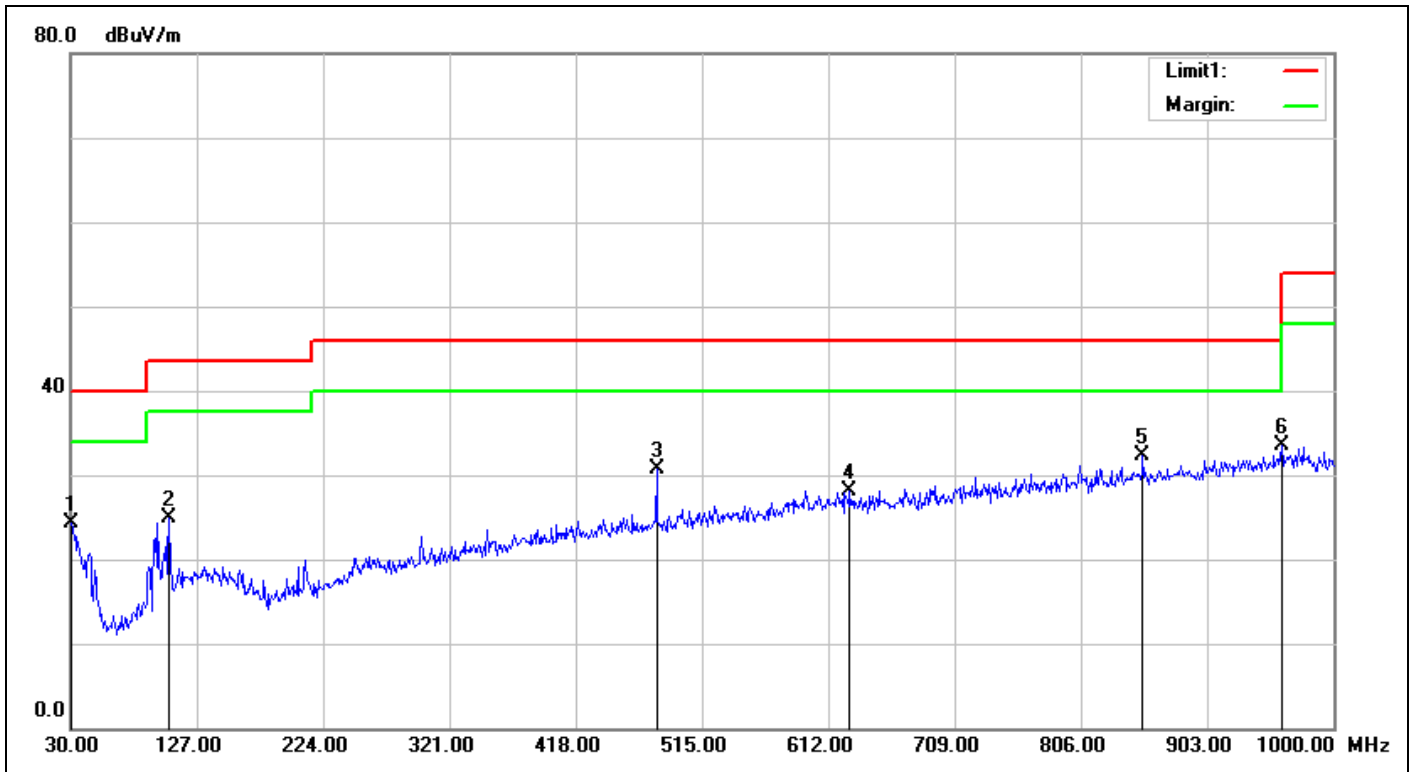
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:29:48</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.9700         | -1.80         | 26.01          | 24.21          | 40.00          | -15.79      | QP   | 100         | 157           |        |
| 2   | 105.6600        | -9.87         | 34.61          | 24.74          | 43.50          | -18.76      | QP   | 100         | 195           |        |
| 3   | 480.0800        | -2.48         | 33.96          | 31.48          | 46.00          | -14.52      | QP   | 100         | 30            |        |
| 4   | 585.8100        | -1.03         | 29.84          | 28.81          | 46.00          | -17.19      | QP   | 100         | 27            |        |
| 5   | 667.2900        | -0.08         | 29.29          | 29.21          | 46.00          | -16.79      | QP   | 100         | 6             |        |
| 6   | 960.2300        | 5.11          | 30.22          | 35.33          | 54.00          | -18.67      | QP   | 100         | 165           |        |



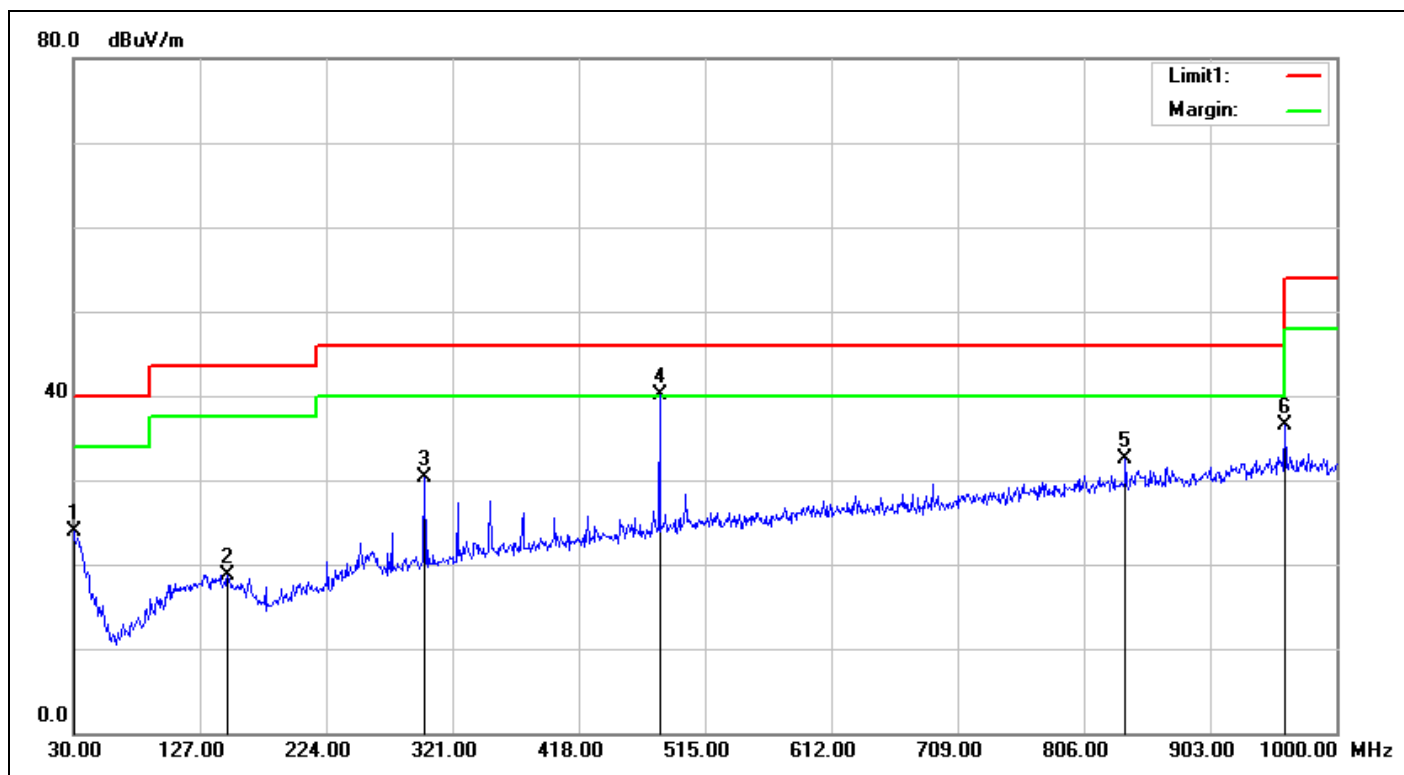
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:32:02</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.41          | 24.10          | 40.00          | -15.90      | QP   | 100         | 279           |        |
| 2   | 141.5500        | -8.13         | 28.06          | 19.93          | 43.50          | -23.57      | QP   | 100         | 53            |        |
| 3   | 299.6600        | -5.72         | 35.62          | 29.90          | 46.00          | -16.10      | QP   | 100         | 125           |        |
| 4   | 480.0799        | -2.48         | 42.47          | 39.99          | 46.00          | -6.01       | QP   | 100         | 67            |        |
| 5   | 845.7699        | 3.15          | 28.62          | 31.77          | 46.00          | -14.23      | QP   | 100         | 171           |        |
| 6   | 960.2300        | 5.11          | 31.67          | 36.78          | 54.00          | -17.22      | QP   | 100         | 221           |        |



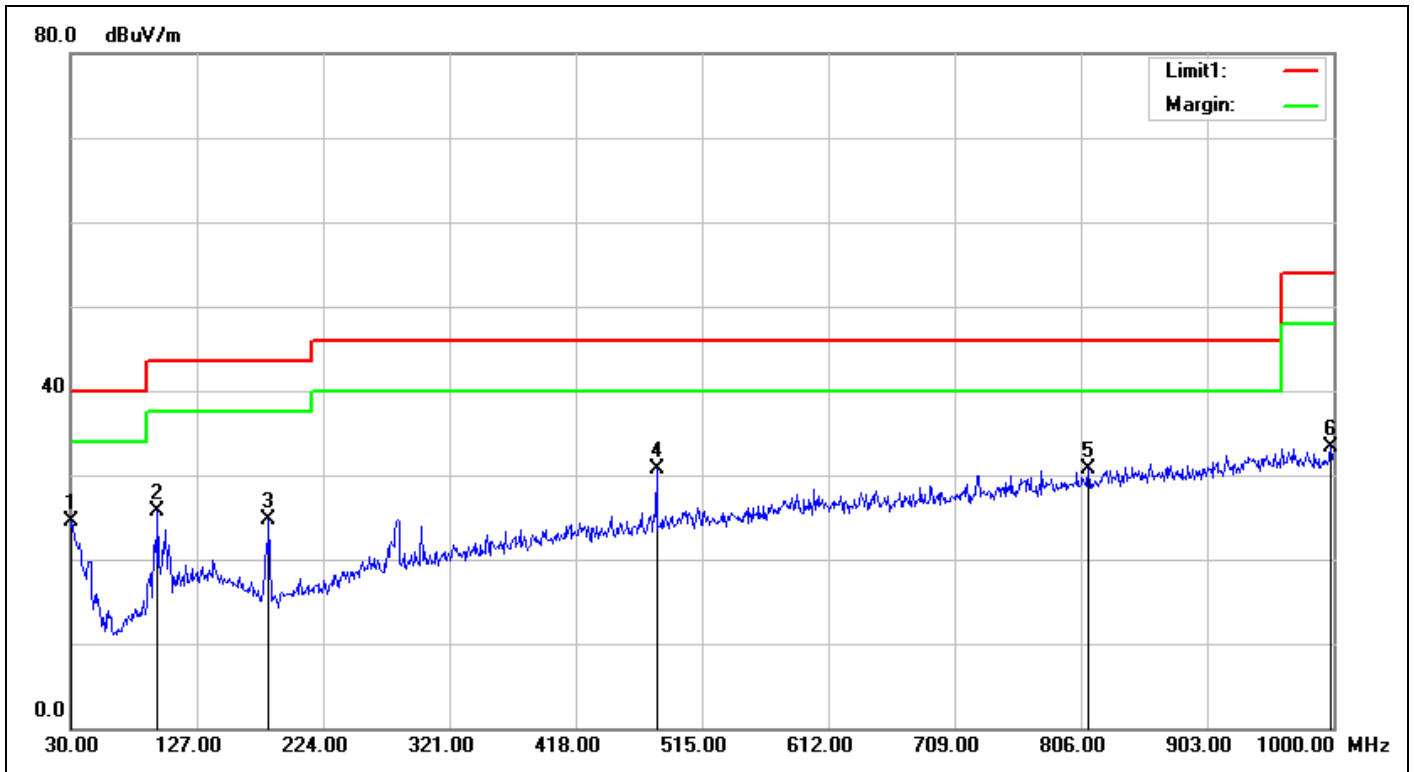
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:33:05</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.66          | 24.35          | 40.00          | -15.65      | QP   | 100         | 110           |        |
| 2   | 105.6600        | -9.87         | 34.85          | 24.98          | 43.50          | -18.52      | QP   | 100         | 197           |        |
| 3   | 480.0800        | -2.48         | 33.19          | 30.71          | 46.00          | -15.29      | QP   | 100         | 59            |        |
| 4   | 628.4900        | -0.49         | 28.53          | 28.04          | 46.00          | -17.96      | QP   | 100         | 233           |        |
| 5   | 853.5300        | 3.27          | 29.05          | 32.32          | 46.00          | -13.68      | QP   | 100         | 67            |        |
| 6   | 960.2300        | 5.11          | 28.31          | 33.42          | 54.00          | -20.58      | QP   | 100         | 179           |        |



|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:38:21</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5745-TX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.13          | 23.82          | 40.00          | -16.18      | QP   | 100         | 0             |        |
| 2   | 148.3400        | -8.36         | 27.16          | 18.80          | 43.50          | -24.70      | QP   | 100         | 194           |        |
| 3   | 299.6600        | -5.72         | 36.12          | 30.40          | 46.00          | -15.60      | QP   | 100         | 96            |        |
| 4   | 480.0799        | -2.48         | 42.49          | 40.01          | 46.00          | -5.99       | QP   | 100         | 85            |        |
| 5   | 838.0099        | 2.99          | 29.50          | 32.49          | 46.00          | -13.51      | QP   | 100         | 80            |        |
| 6   | 960.2300        | 5.11          | 31.41          | 36.52          | 54.00          | -17.48      | QP   | 100         | 215           |        |



|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:39:25</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5745-TX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.9700         | -1.80         | 26.38          | 24.58          | 40.00          | -15.42      | QP   | 100         | 320           |        |
| 2   | 96.9300         | -11.09        | 36.74          | 25.65          | 43.50          | -17.85      | QP   | 100         | 229           |        |
| 3   | 182.2899        | -10.70        | 35.36          | 24.66          | 43.50          | -18.84      | QP   | 100         | 312           |        |
| 4   | 480.0800        | -2.48         | 33.17          | 30.69          | 46.00          | -15.31      | QP   | 100         | 64            |        |
| 5   | 811.8200        | 2.48          | 28.16          | 30.64          | 46.00          | -15.36      | QP   | 100         | 354           |        |
| 6   | 998.0600        | 5.03          | 28.27          | 33.30          | 54.00          | -20.70      | QP   | 100         | 200           |        |

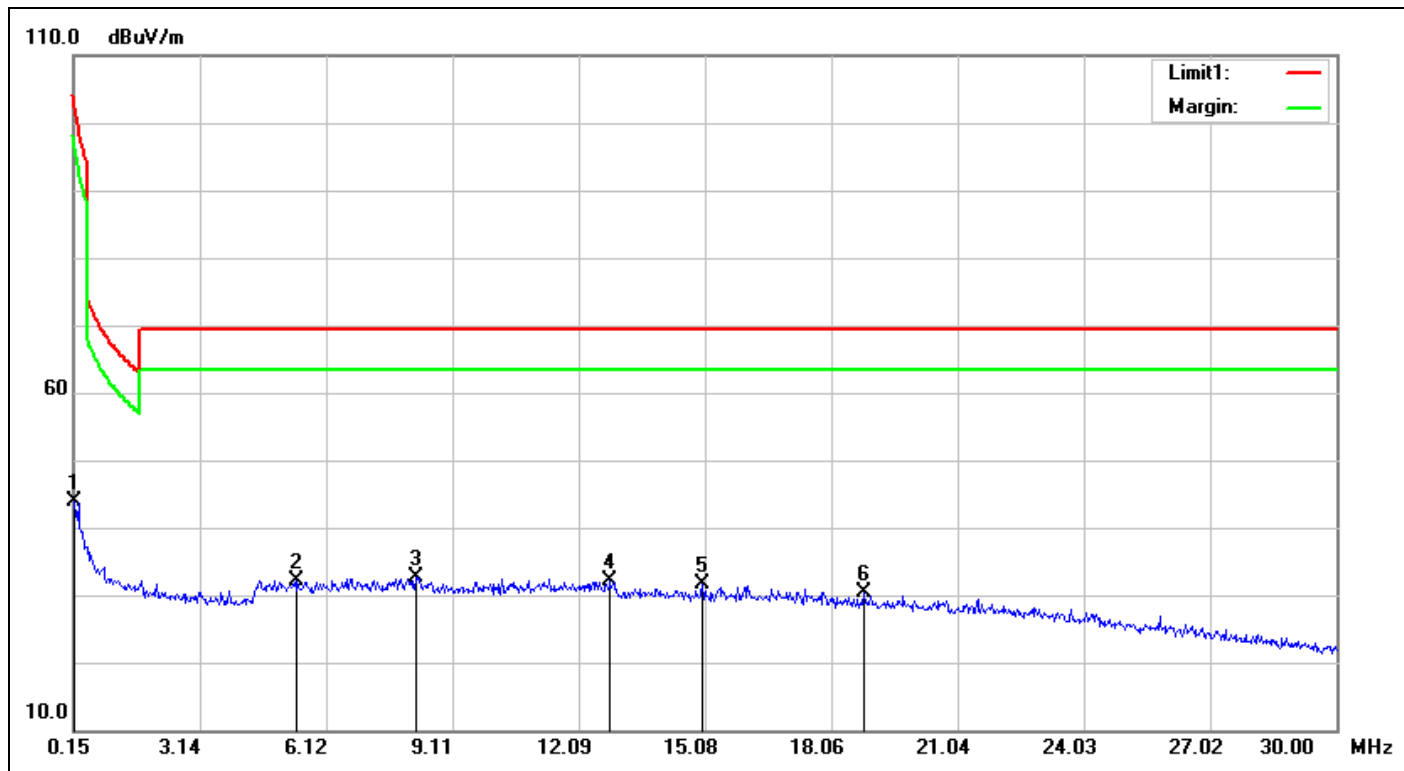
# Spurious Emissions, TX Mode, 150K-30M



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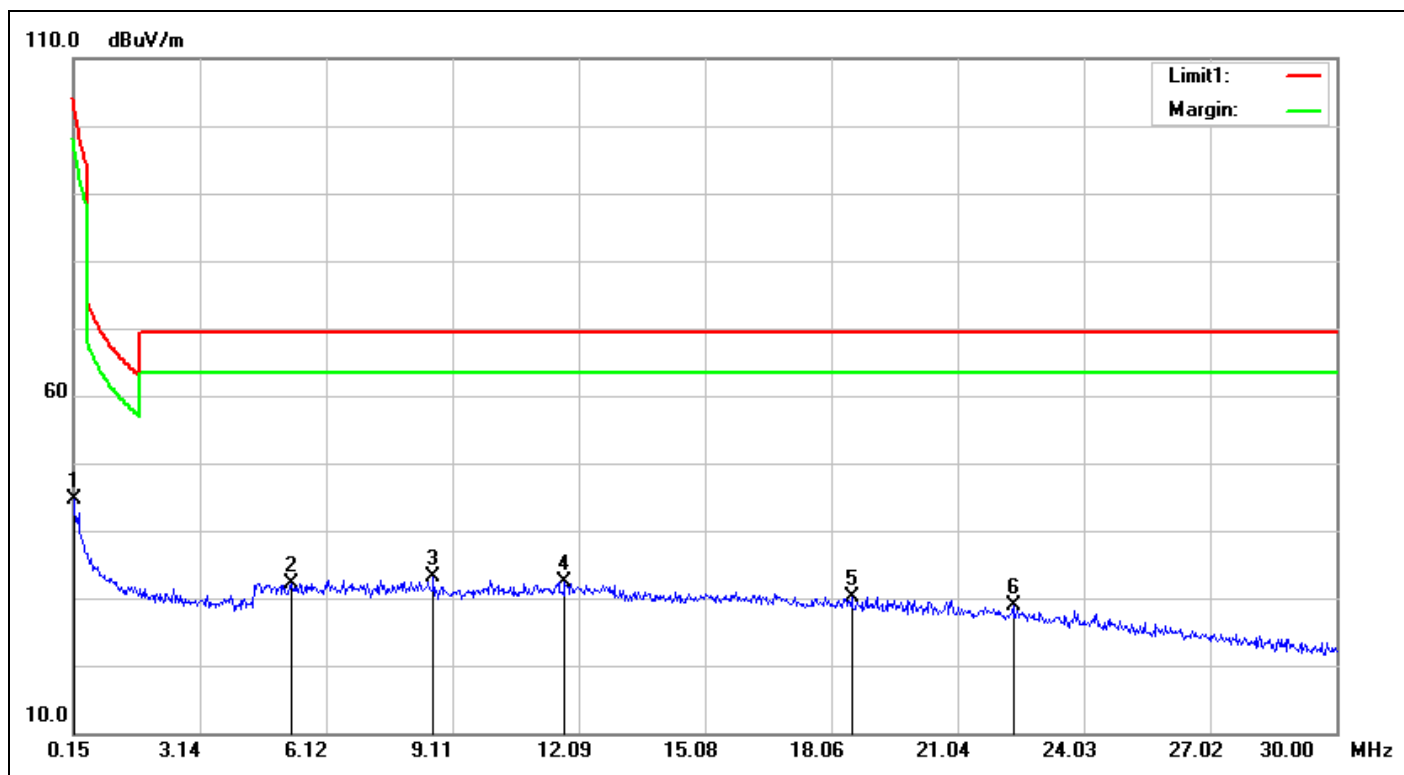
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



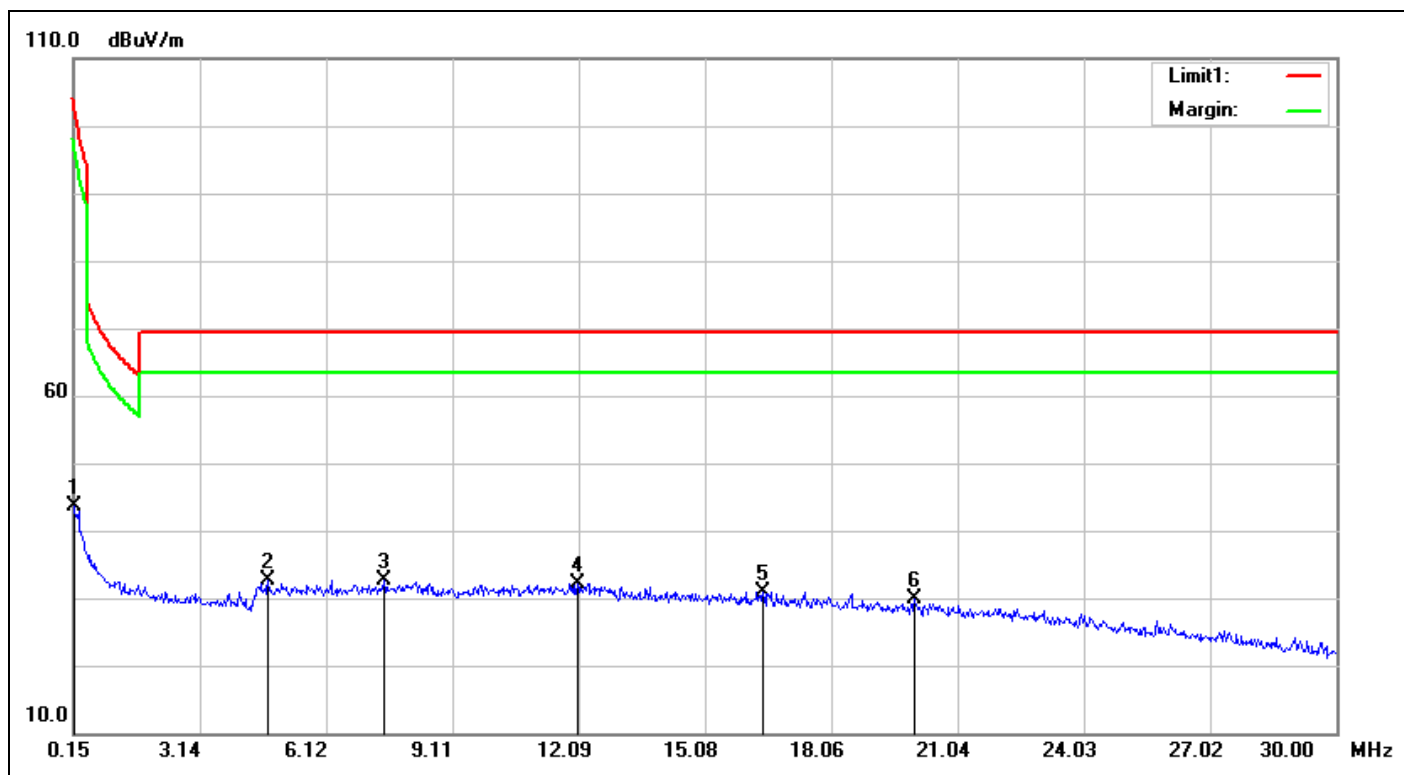
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:08:54</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.1499          | 19.08         | 24.79          | 43.87          | 104.02         | -60.15      | QP   | 100         | 109           |        |
| 2   | 5.4334          | 19.80         | 12.35          | 32.15          | 69.50          | -37.35      | QP   | 100         | 152           |        |
| 3   | 8.2393          | 20.06         | 12.69          | 32.75          | 69.50          | -36.75      | QP   | 100         | 291           |        |
| 4   | 12.8362         | 20.72         | 11.38          | 32.10          | 69.50          | -37.40      | QP   | 100         | 256           |        |
| 5   | 15.0152         | 21.10         | 10.44          | 31.54          | 69.50          | -37.96      | QP   | 100         | 267           |        |
| 6   | 18.8360         | 21.78         | 8.64           | 30.42          | 69.50          | -39.08      | QP   | 100         | 264           |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:11:34</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 0.1500             | 19.08            | 25.50             | 44.58             | 104.02            | -59.44         | QP   | 100            | 158              |        |
| 2   | 5.3140             | 19.79            | 12.43             | 32.22             | 69.50             | -37.28         | QP   | 100            | 38               |        |
| 3   | 8.6572             | 20.09            | 12.97             | 33.06             | 69.50             | -36.44         | QP   | 100            | 115              |        |
| 4   | 11.7616            | 20.53            | 11.86             | 32.39             | 69.50             | -37.11         | QP   | 100            | 206              |        |
| 5   | 18.5376            | 21.73            | 8.48              | 30.21             | 69.50             | -39.29         | QP   | 100            | 309              |        |
| 6   | 22.3583            | 22.14            | 6.78              | 28.92             | 69.50             | -40.58         | QP   | 100            | 48               |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:14:42</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.1499          | 19.08         | 24.43          | 43.51          | 104.02         | -60.51      | QP   | 100         | 227           |        |
| 2   | 4.7469          | 19.60         | 13.02          | 32.62          | 69.50          | -36.88      | QP   | 100         | 360           |        |
| 3   | 7.4931          | 19.99         | 12.52          | 32.51          | 69.50          | -36.99      | QP   | 100         | 125           |        |
| 4   | 12.0601         | 20.58         | 11.65          | 32.23          | 69.50          | -37.27      | QP   | 100         | 307           |        |
| 5   | 16.4481         | 21.36         | 9.60           | 30.96          | 69.50          | -38.54      | QP   | 100         | 168           |        |
| 6   | 20.0301         | 21.99         | 7.94           | 29.93          | 69.50          | -39.57      | QP   | 100         | 360           |        |

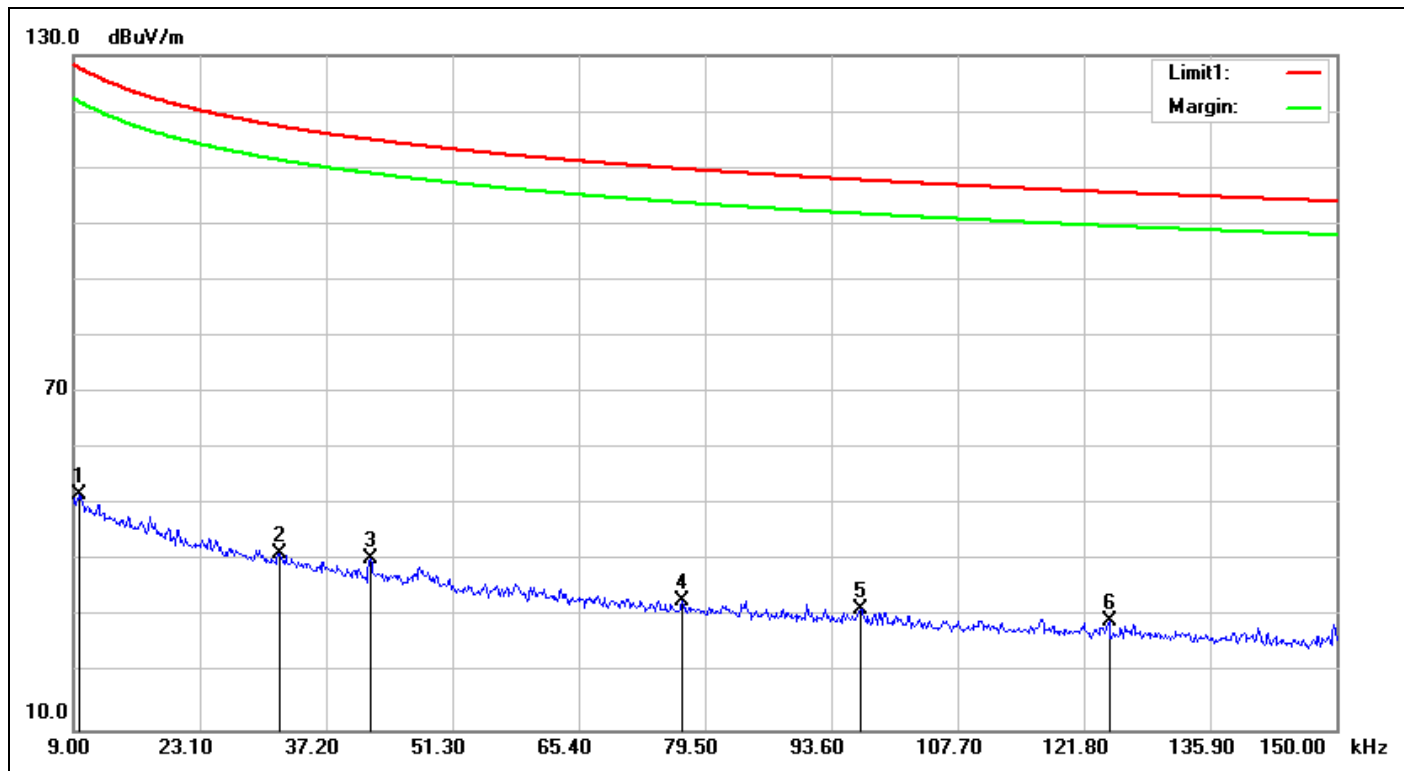
# Spurious Emissions, TX Mode, 9K-150K



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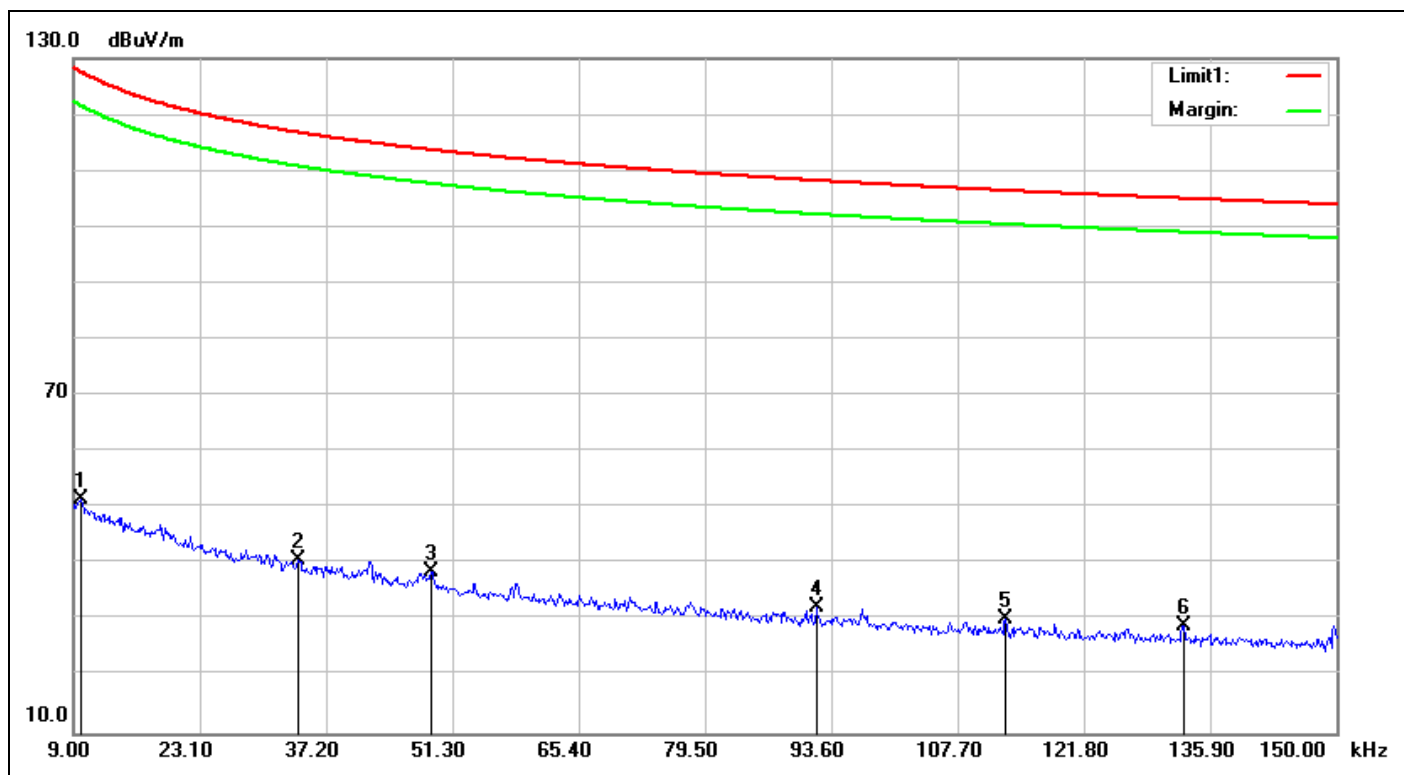
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



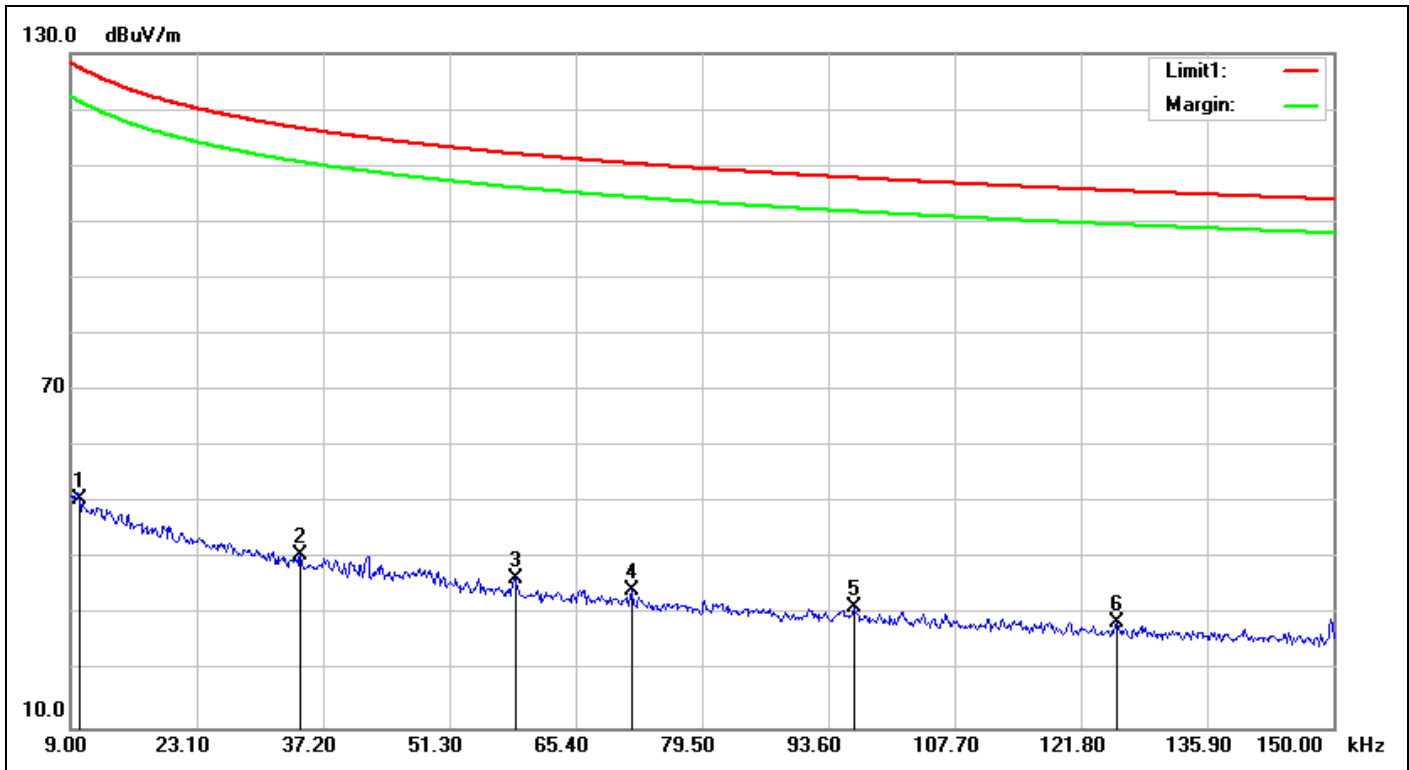
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:02:41</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 0.0097          | 19.83         | 32.06          | 51.89          | 127.66         | -75.77      | QP   | 100         | 218         |        |
| 2   | 0.0319          | 20.06         | 21.33          | 41.39          | 117.38         | -75.99      | QP   | 100         | 1           |        |
| 3   | 0.0421          | 19.70         | 20.67          | 40.37          | 114.99         | -74.62      | QP   | 100         | 202         |        |
| 4   | 0.0769          | 19.27         | 13.67          | 32.94          | 109.79         | -76.85      | QP   | 100         | 205         |        |
| 5   | 0.0967          | 19.15         | 12.43          | 31.58          | 107.81         | -76.23      | QP   | 100         | 58          |        |
| 6   | 0.1246          | 19.11         | 10.12          | 29.23          | 105.62         | -76.39      | QP   | 100         | 184         |        |



|                       |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>     | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b> |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>         | <b>2017/8/15 14:05:26</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>       | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%):</b> | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>     | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-TX</b>        |                           |                           |
| <b>Remark:</b>        |                           |                           |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.0098          | 19.86         | 31.82          | 51.68          | 127.57         | -75.89      | QP   | 100         | 112           |        |
| 2   | 0.0340          | 19.98         | 20.82          | 40.80          | 116.83         | -76.03      | QP   | 100         | 352           |        |
| 3   | 0.0489          | 19.47         | 19.32          | 38.79          | 113.69         | -74.90      | QP   | 100         | 208           |        |
| 4   | 0.0919          | 19.18         | 13.07          | 32.25          | 108.25         | -76.00      | QP   | 100         | 134           |        |
| 5   | 0.1130          | 19.12         | 11.28          | 30.40          | 106.46         | -76.06      | QP   | 100         | 330           |        |
| 6   | 0.1329          | 19.10         | 10.04          | 29.14          | 105.06         | -75.92      | QP   | 100         | 179           |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:18:14</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-TX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.0099          | 19.90         | 30.69          | 50.59          | 127.48         | -76.89      | QP   | 100         | 32            |        |
| 2   | 0.0346          | 19.96         | 20.81          | 40.77          | 116.68         | -75.91      | QP   | 100         | 158           |        |
| 3   | 0.0586          | 19.38         | 17.08          | 36.46          | 112.13         | -75.67      | QP   | 100         | 299           |        |
| 4   | 0.0716          | 19.30         | 15.27          | 34.57          | 110.40         | -75.83      | QP   | 100         | 158           |        |
| 5   | 0.0964          | 19.15         | 12.28          | 31.43          | 107.83         | -76.40      | QP   | 100         | 139           |        |
| 6   | 0.1257          | 19.10         | 9.65           | 28.75          | 105.54         | -76.79      | QP   | 100         | 360           |        |

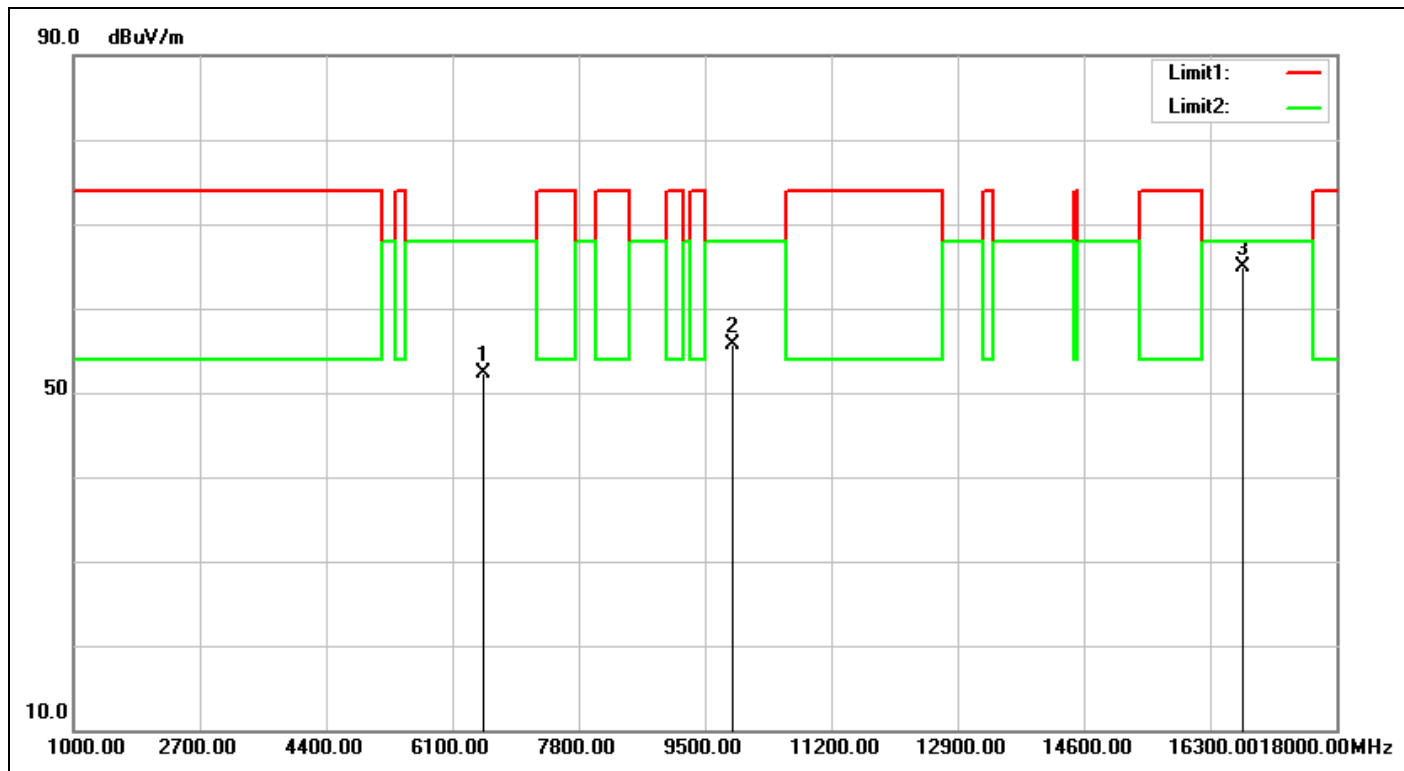
# Spurious Emissions, RX Mode, 1G-18G



**TUV Rheinland Taiwan Ltd.**

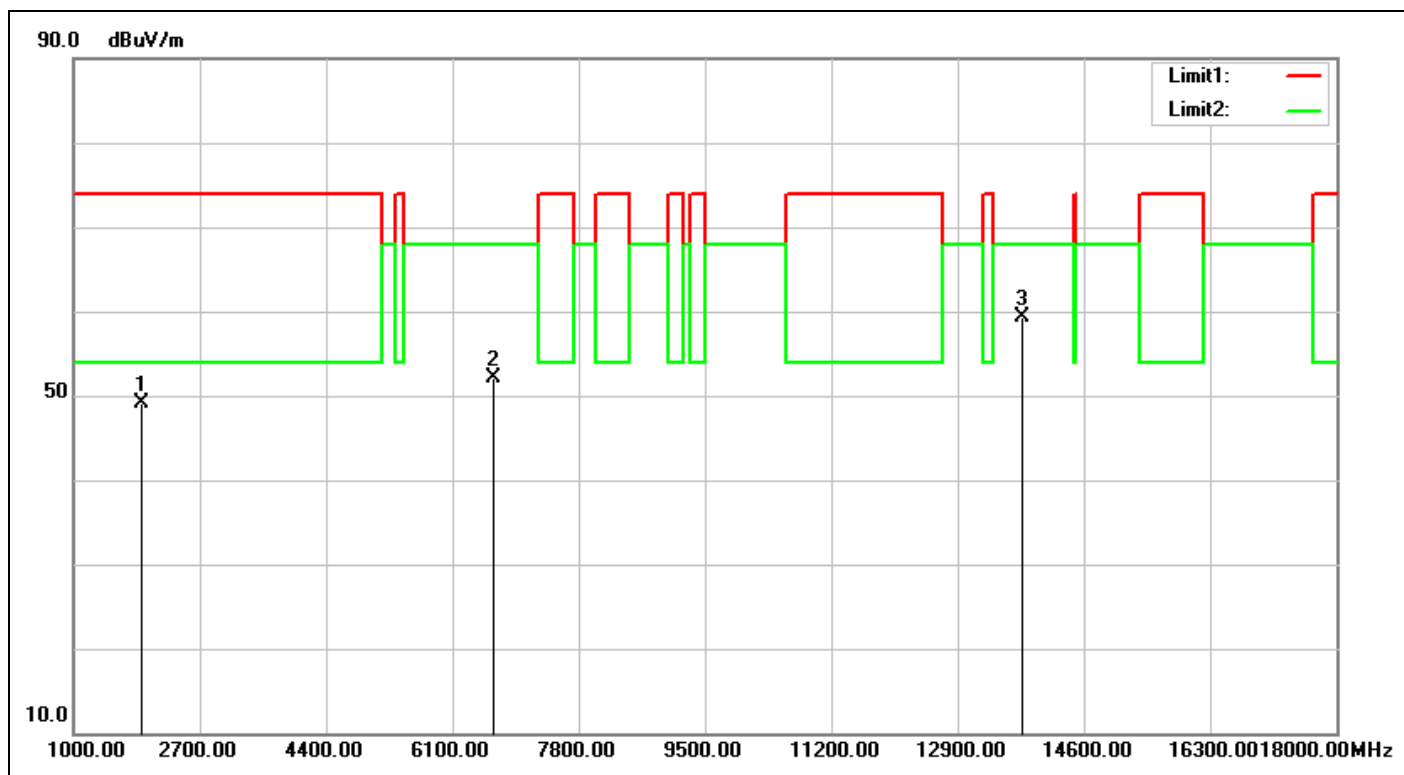
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



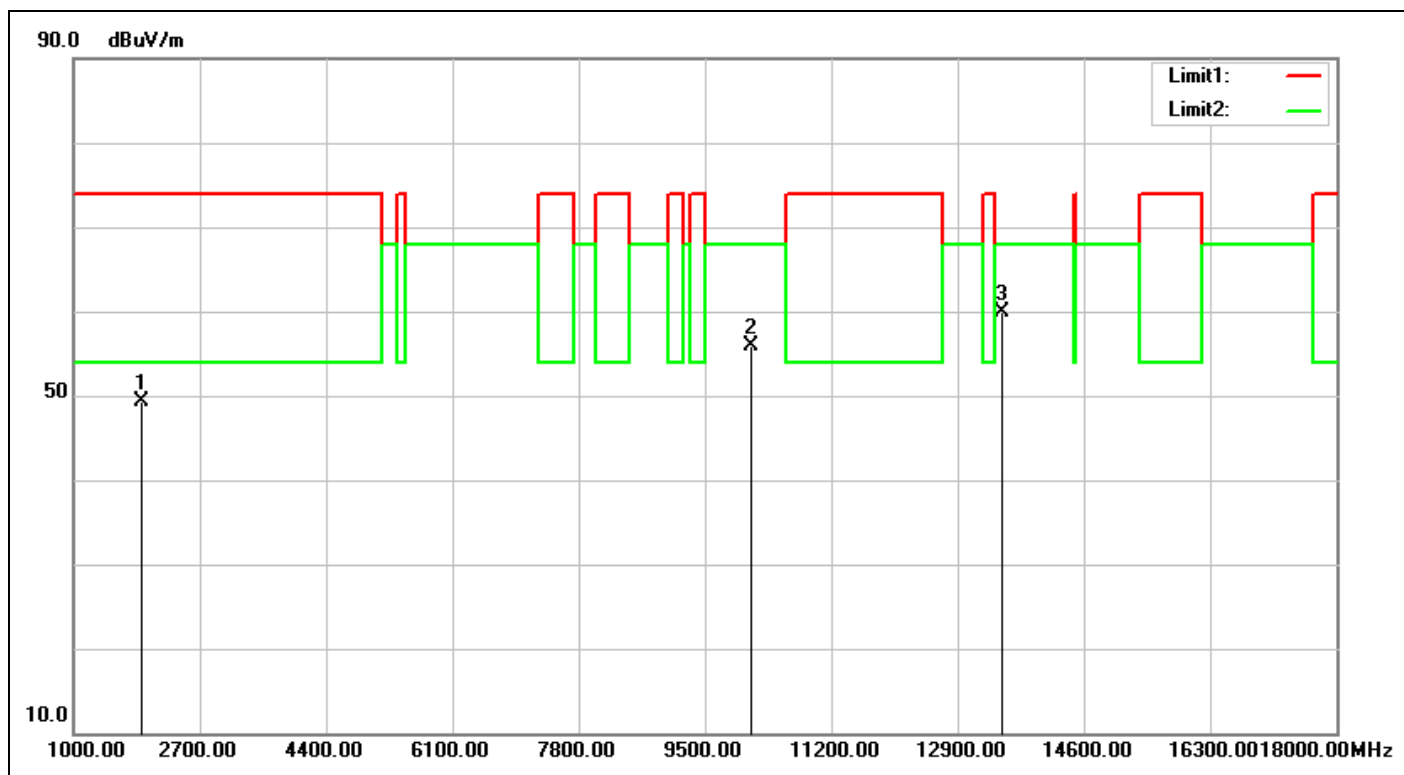
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/17 11:22:42 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 22(°C)/56%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5200-RX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 6508.000        | 7.93          | 44.36          | 52.29          | 68.00          | -15.71      | peak | 100         | 202         |        |
| 2   | 9874.000        | 9.33          | 46.30          | 55.63          | 68.00          | -12.37      | peak | 100         | 196         |        |
| 3   | 16742.000       | 19.70         | 45.13          | 64.83          | 68.00          | -3.17       | peak | 100         | 0           |        |



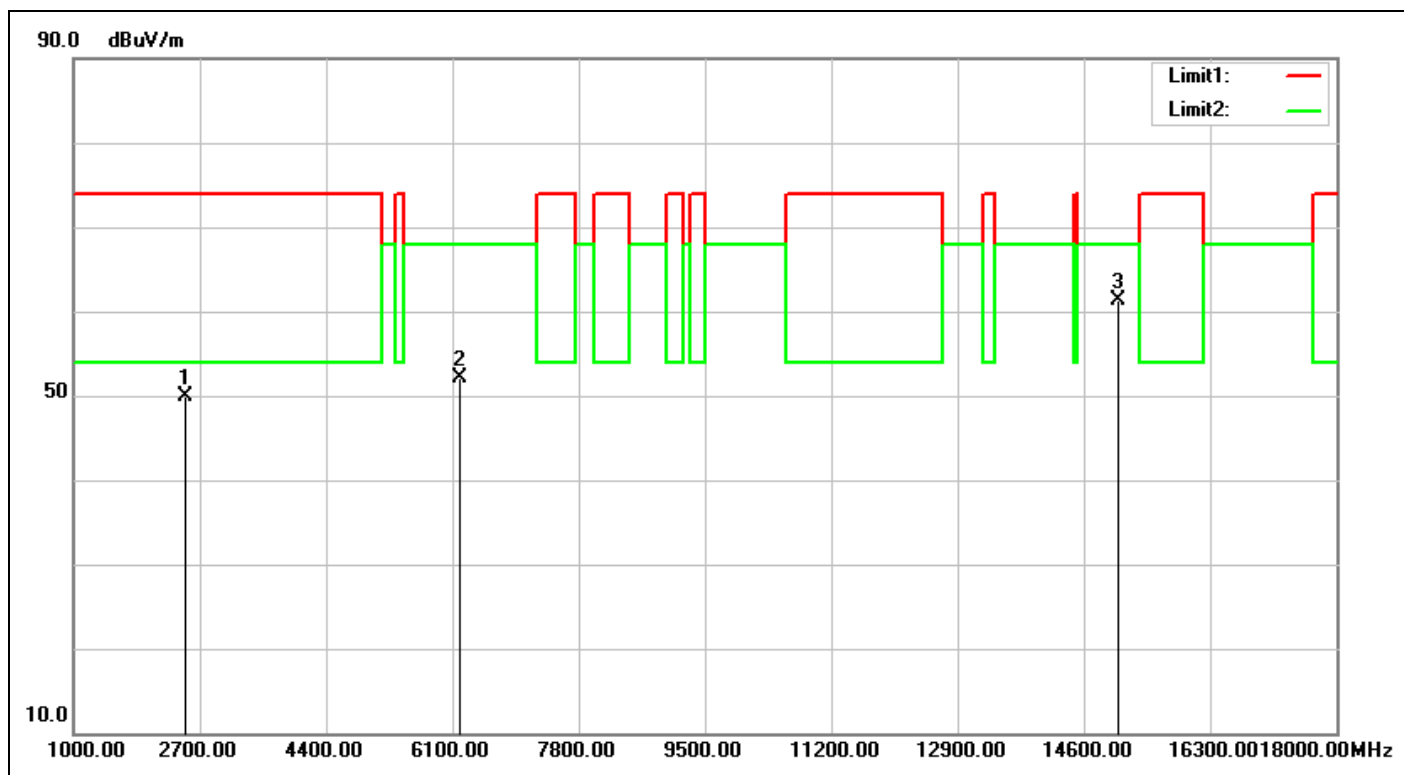
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:23:45</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 1918.000           | -6.63            | 55.74             | 49.11             | 74.00             | -24.89         | peak | 100            | 299              |        |
| 2   | 6644.000           | 7.81             | 44.29             | 52.10             | 68.00             | -15.90         | peak | 100            | 224              |        |
| 3   | 13767.000          | 14.06            | 45.17             | 59.23             | 68.00             | -8.77          | peak | 100            | 141              |        |



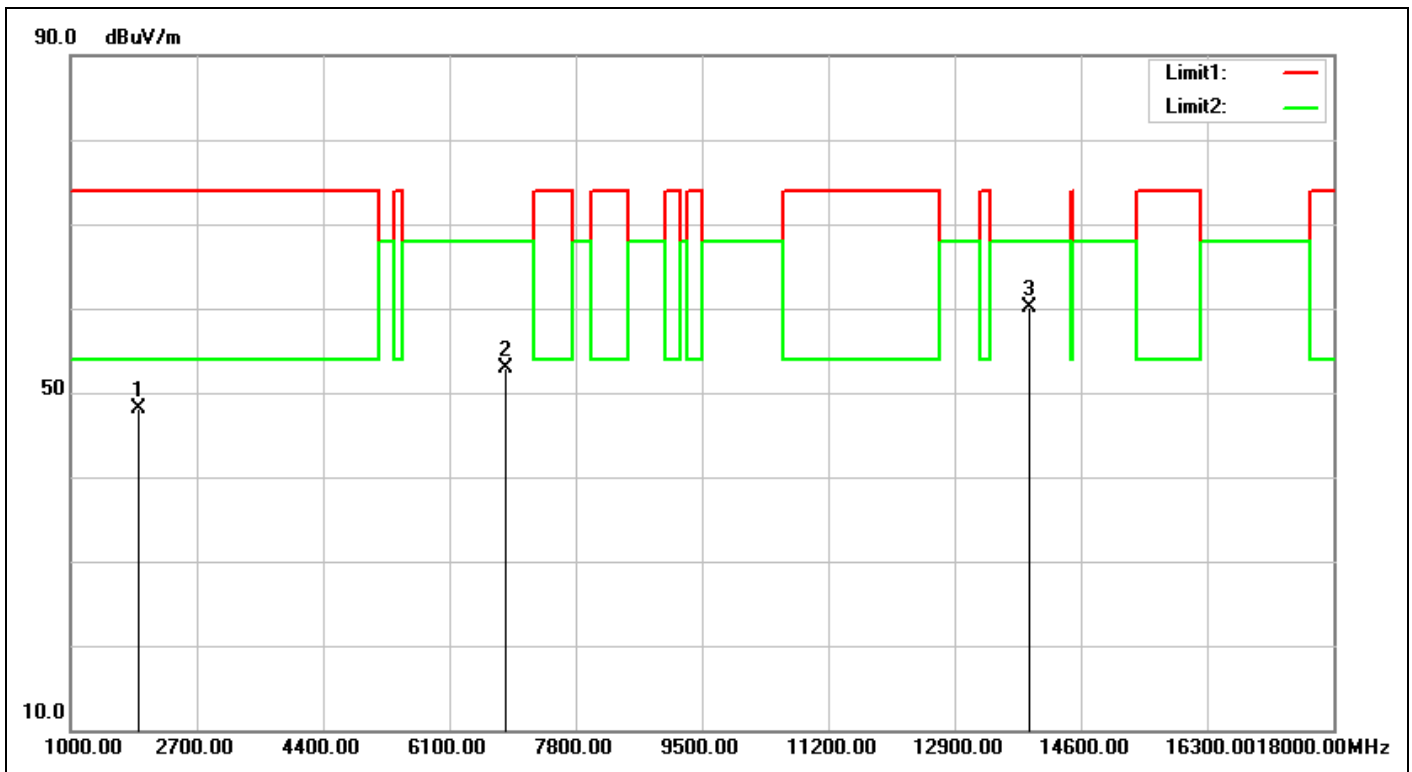
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/17 11:27:46 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 22(°C)/56%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5220-RX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 1918.000        | -6.63         | 55.97          | 49.34          | 74.00          | -24.66      | peak | 100         | 38          |        |
| 2   | 10112.000       | 8.92          | 46.92          | 55.84          | 68.00          | -12.16      | peak | 100         | 297         |        |
| 3   | 13495.000       | 14.28         | 45.65          | 59.93          | 68.00          | -8.07       | peak | 100         | 359         |        |



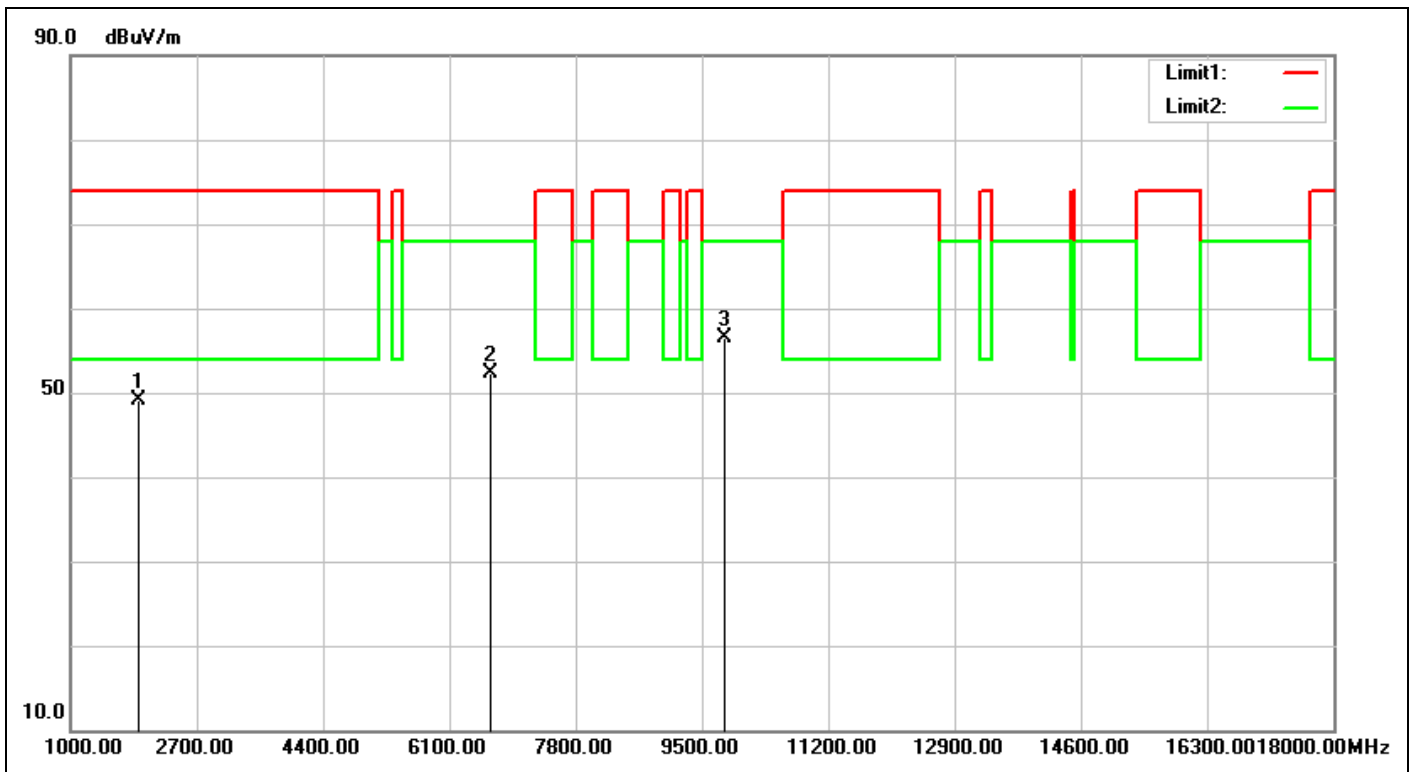
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:28:49</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2513.000        | -5.79         | 55.63          | 49.84          | 74.00          | -24.16      | peak | 100         | 340           |        |
| 2   | 6202.000        | 6.72          | 45.34          | 52.06          | 68.00          | -15.94      | peak | 100         | 253           |        |
| 3   | 15059.000       | 14.56         | 46.82          | 61.38          | 68.00          | -6.62       | peak | 100         | 247           |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:30:33</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 1918.000        | -6.63         | 54.75          | 48.12          | 74.00          | -25.88      | peak | 100         | 0             |        |
| 2   | 6865.000        | 7.60          | 45.35          | 52.95          | 68.00          | -15.05      | peak | 100         | 237           |        |
| 3   | 13903.000       | 13.95         | 46.16          | 60.11          | 68.00          | -7.89       | peak | 100         | 173           |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/17 11:31:36</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>22(°C)/56%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 1918.000           | -6.63            | 55.80             | 49.17             | 74.00             | -24.83         | peak | 100            | 299              |        |
| 2   | 6661.000           | 7.79             | 44.45             | 52.24             | 68.00             | -15.76         | peak | 100            | 81               |        |
| 3   | 9806.000           | 9.43             | 47.05             | 56.48             | 68.00             | -11.52         | peak | 100            | 244              |        |

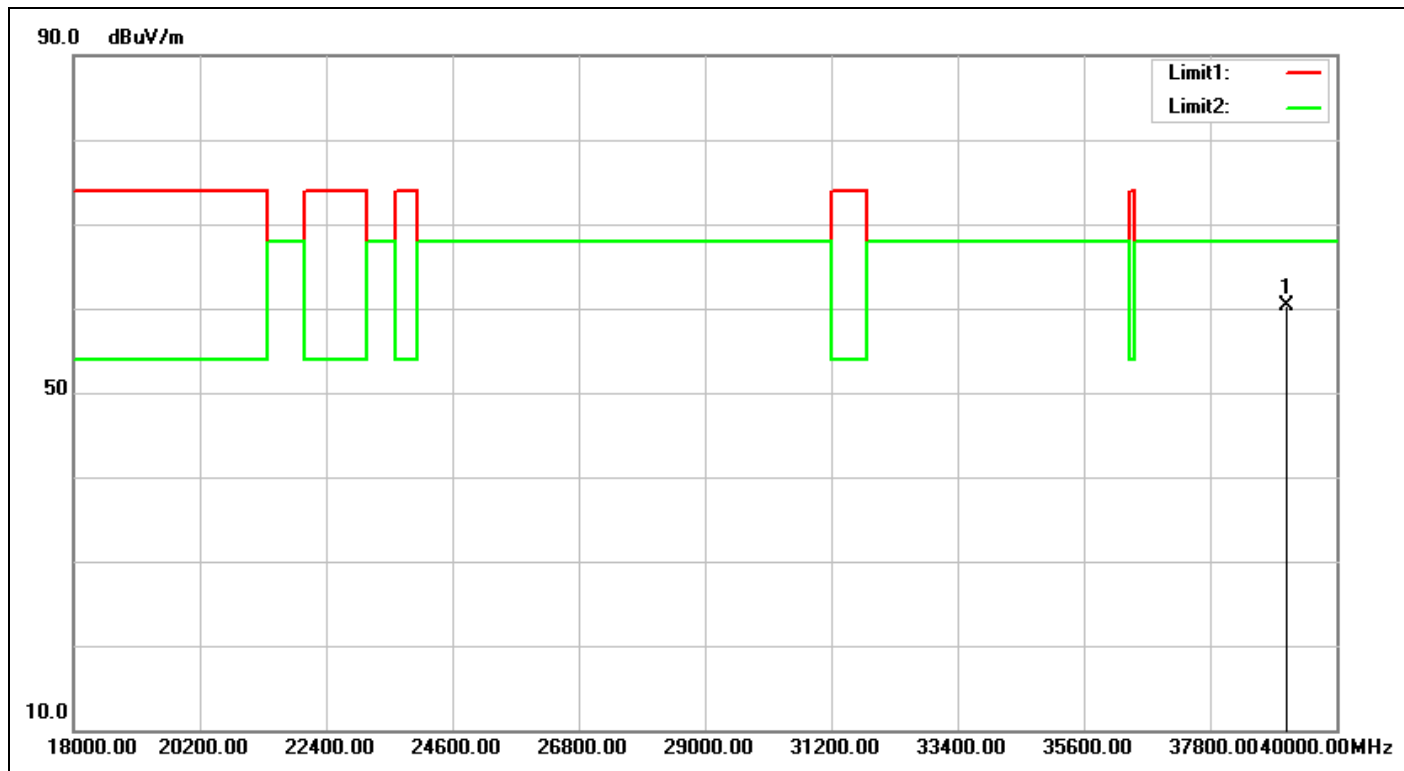
# Spurious Emissions, RX Mode, 18G-40G



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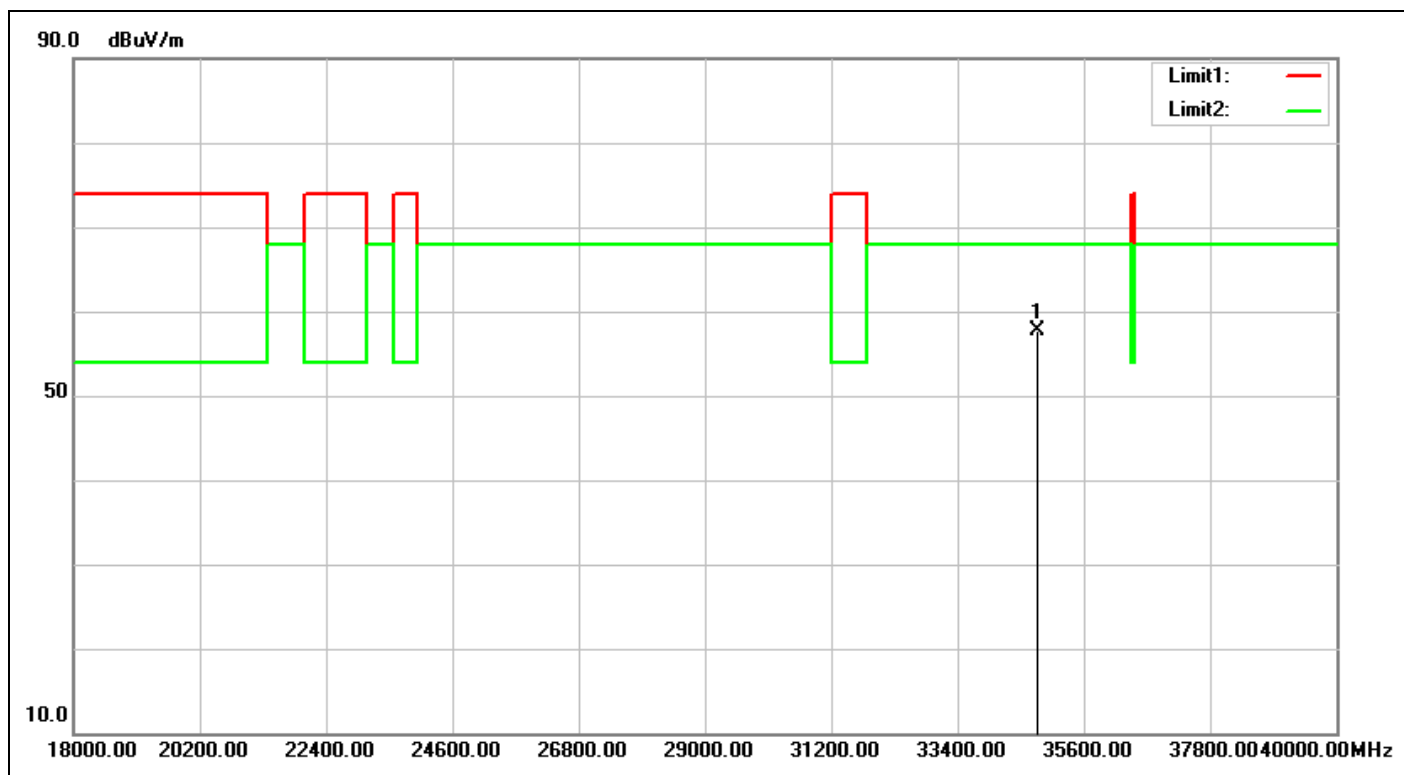
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

Tel:+886-2172-7000 fax:+886-2528-0018



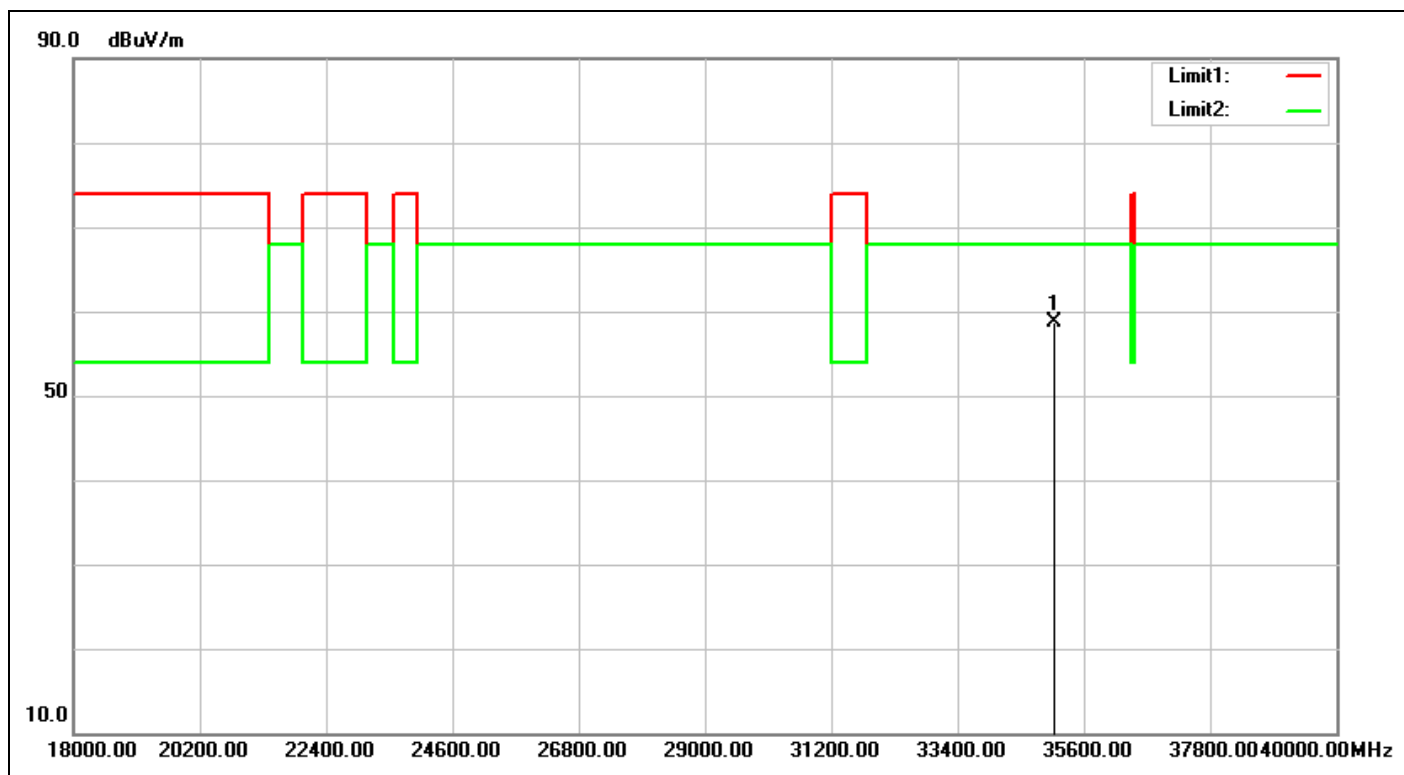
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:03:39</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39142.000          | 40.05            | 20.33             | 60.38             | 68.00             | -7.62          | peak |                |                  |        |



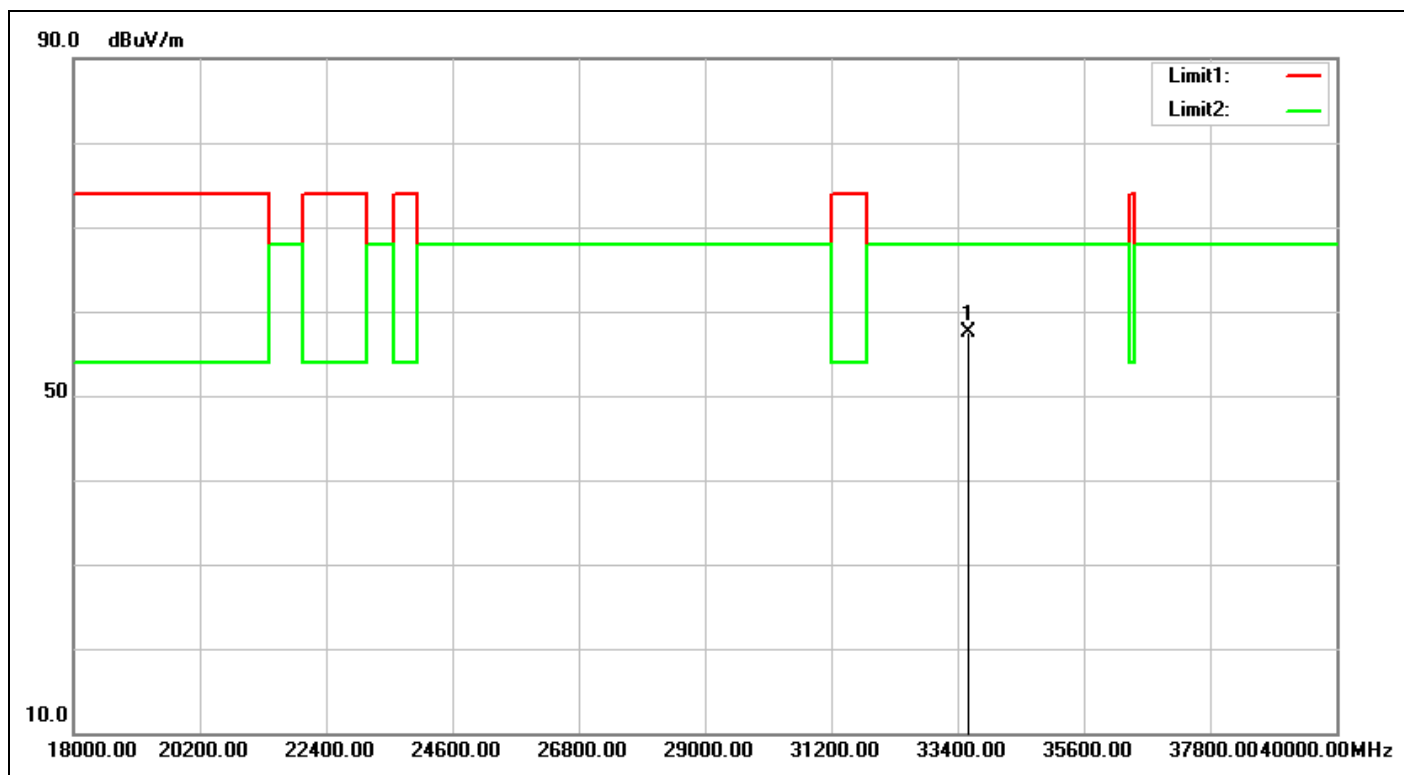
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:03:48</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 34786.000          | 39.82            | 17.92             | 57.74             | 68.00             | -10.26         | peak |                |                  |        |



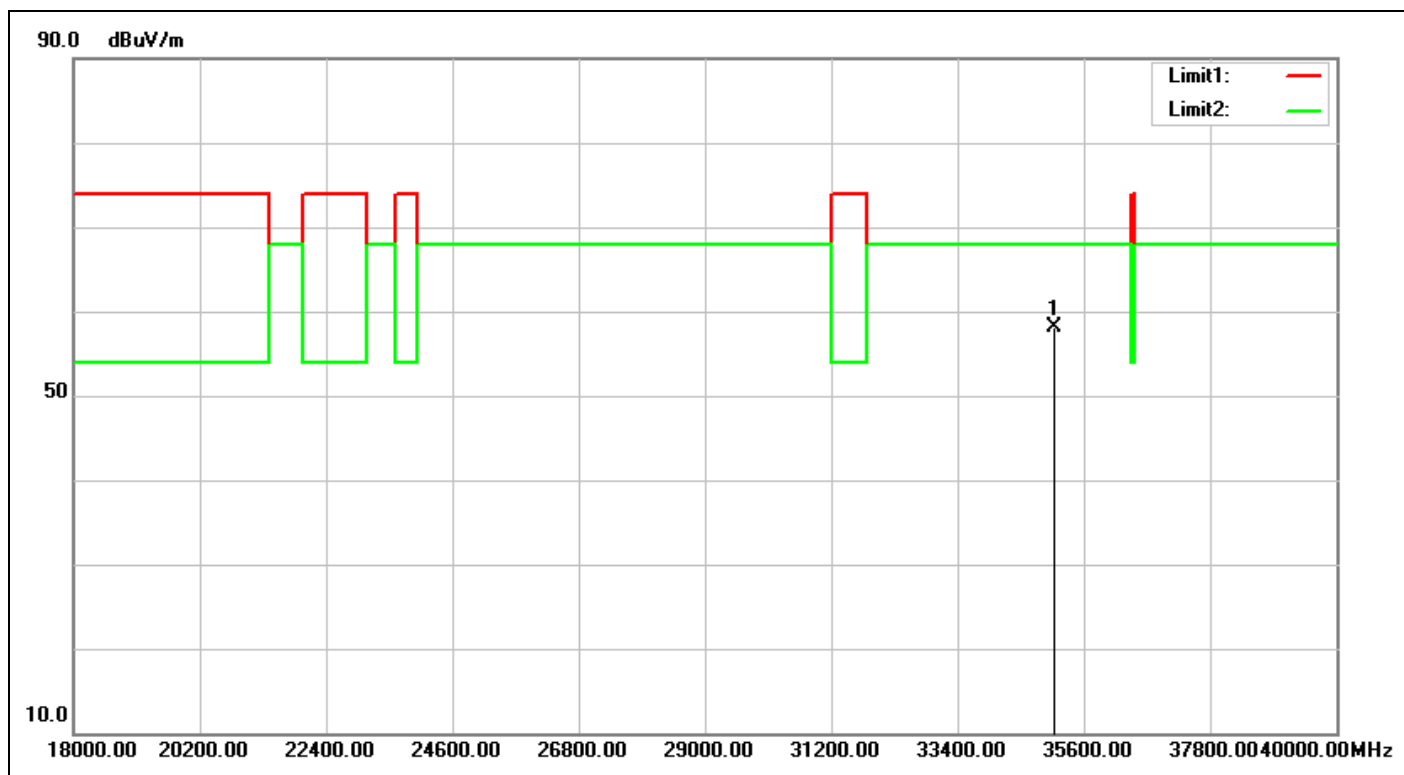
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:04:01 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5220-RX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 35094.000       | 39.93         | 18.87          | 58.80          | 68.00          | -9.20       | peak |             |               |        |



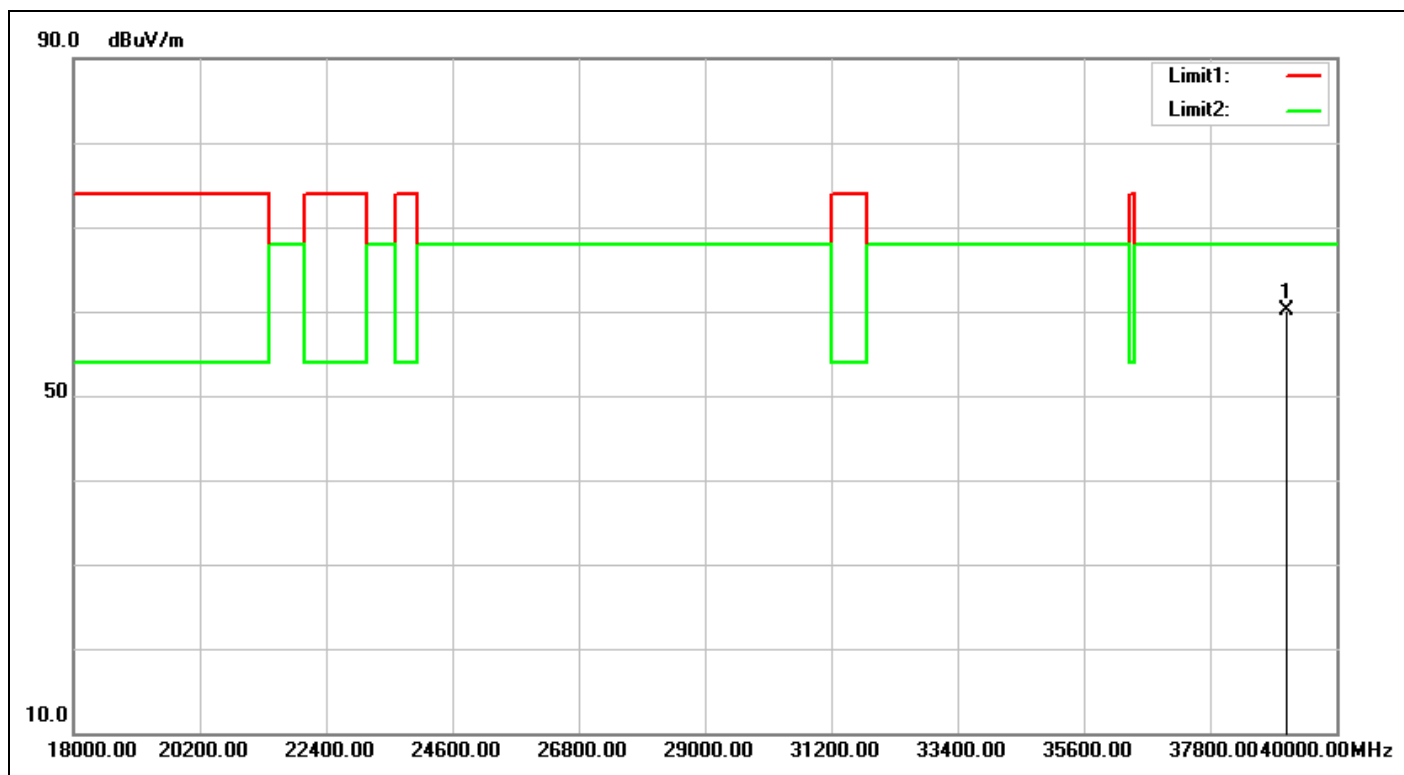
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:04:08</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 33576.000          | 39.27            | 18.28             | 57.55             | 68.00             | -10.45         | peak |                |                  |        |



|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | 1-40G UNII PEAK    | Ant. Polarization: | Horizontal         |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/16 16:02:31 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/54%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5785-RX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 35094.000          | 39.93            | 18.17             | 58.10             | 68.00             | -9.90          | peak |                | 0                |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>1-40G UNII PEAK</b>    | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/16 16:02:43</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/54%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 39142.000          | 40.05            | 20.00             | 60.05             | 68.00             | -7.95          | peak |                |                  |        |

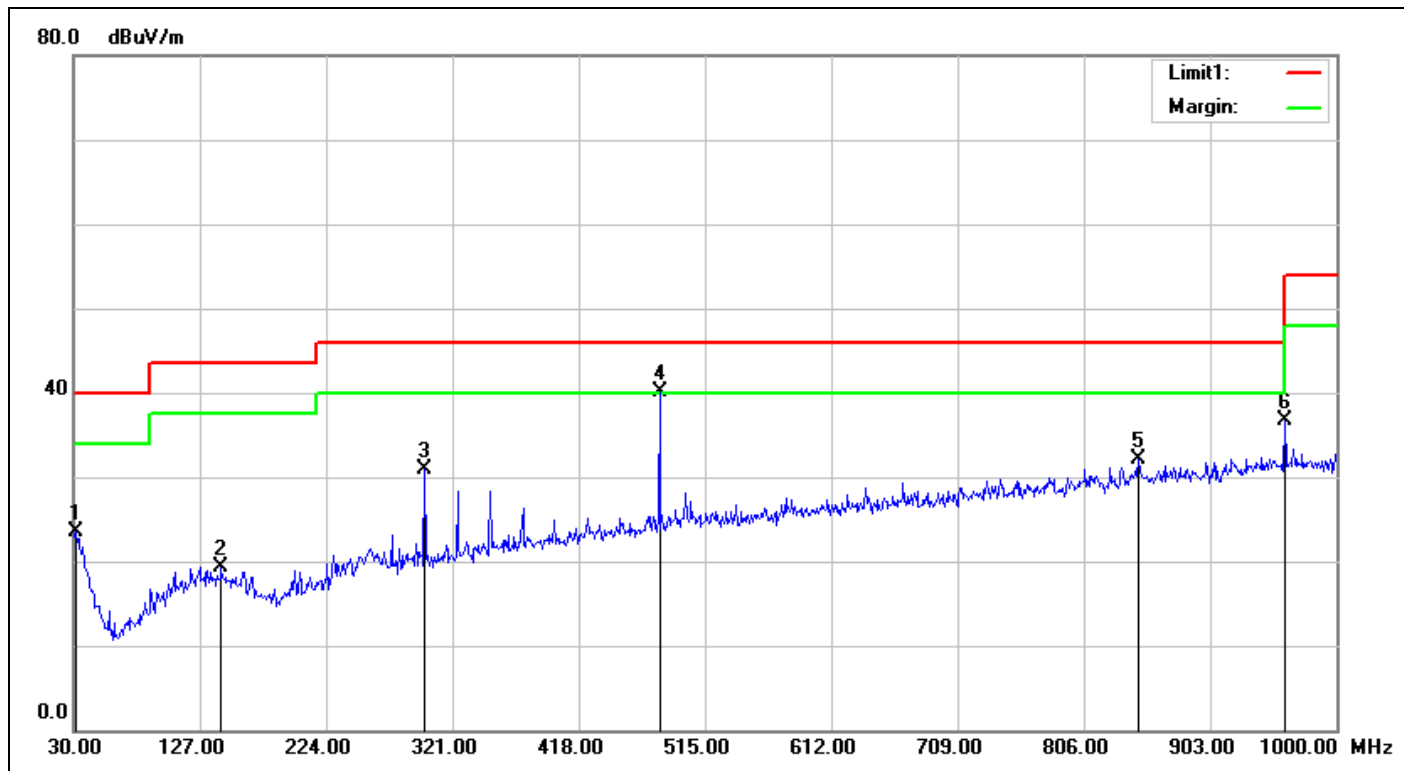
# Spurious Emissions, RX Mode, 30M-1G



**TUV Rheinland Taiwan Ltd.**

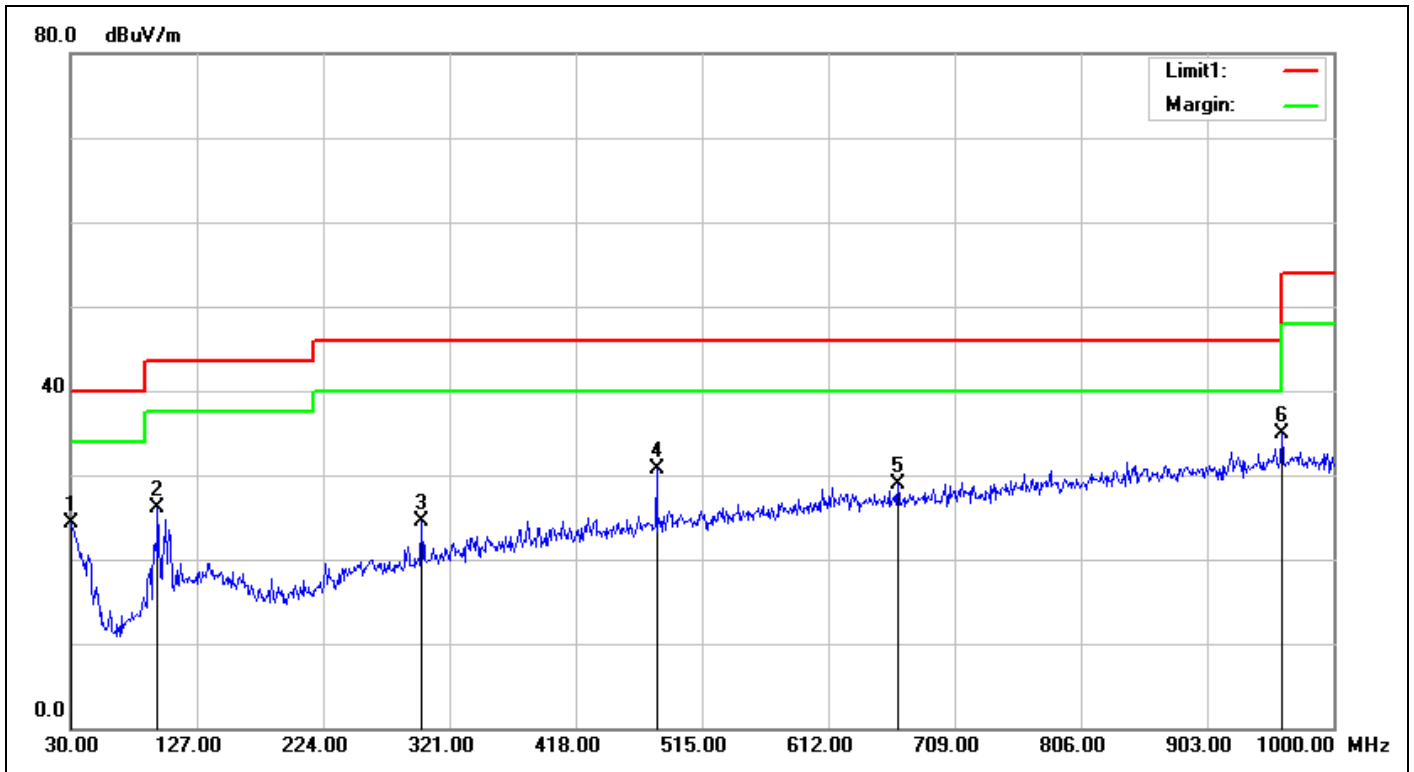
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



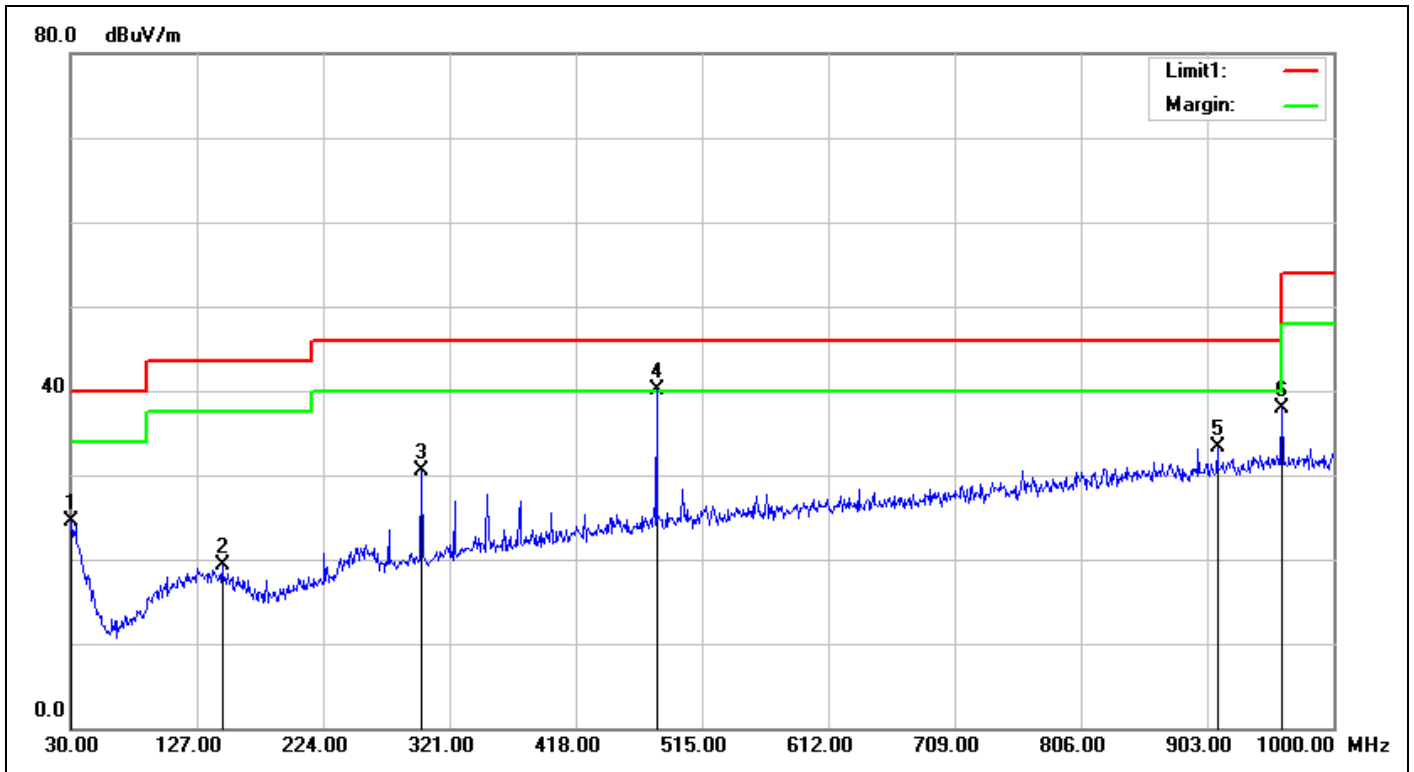
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:41:41</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 31.9400         | -2.31         | 25.77          | 23.46          | 40.00          | -16.54      | QP   | 100         | 166           |        |
| 2   | 143.4900        | -8.19         | 27.56          | 19.37          | 43.50          | -24.13      | QP   | 100         | 2             |        |
| 3   | 299.6600        | -5.72         | 36.55          | 30.83          | 46.00          | -15.17      | QP   | 100         | 272           |        |
| 4   | 480.0799        | -2.48         | 42.60          | 40.12          | 46.00          | -5.88       | QP   | 100         | 70            |        |
| 5   | 847.7100        | 3.18          | 28.85          | 32.03          | 46.00          | -13.97      | QP   | 100         | 56            |        |
| 6   | 960.2300        | 5.11          | 31.56          | 36.67          | 54.00          | -17.33      | QP   | 100         | 211           |        |



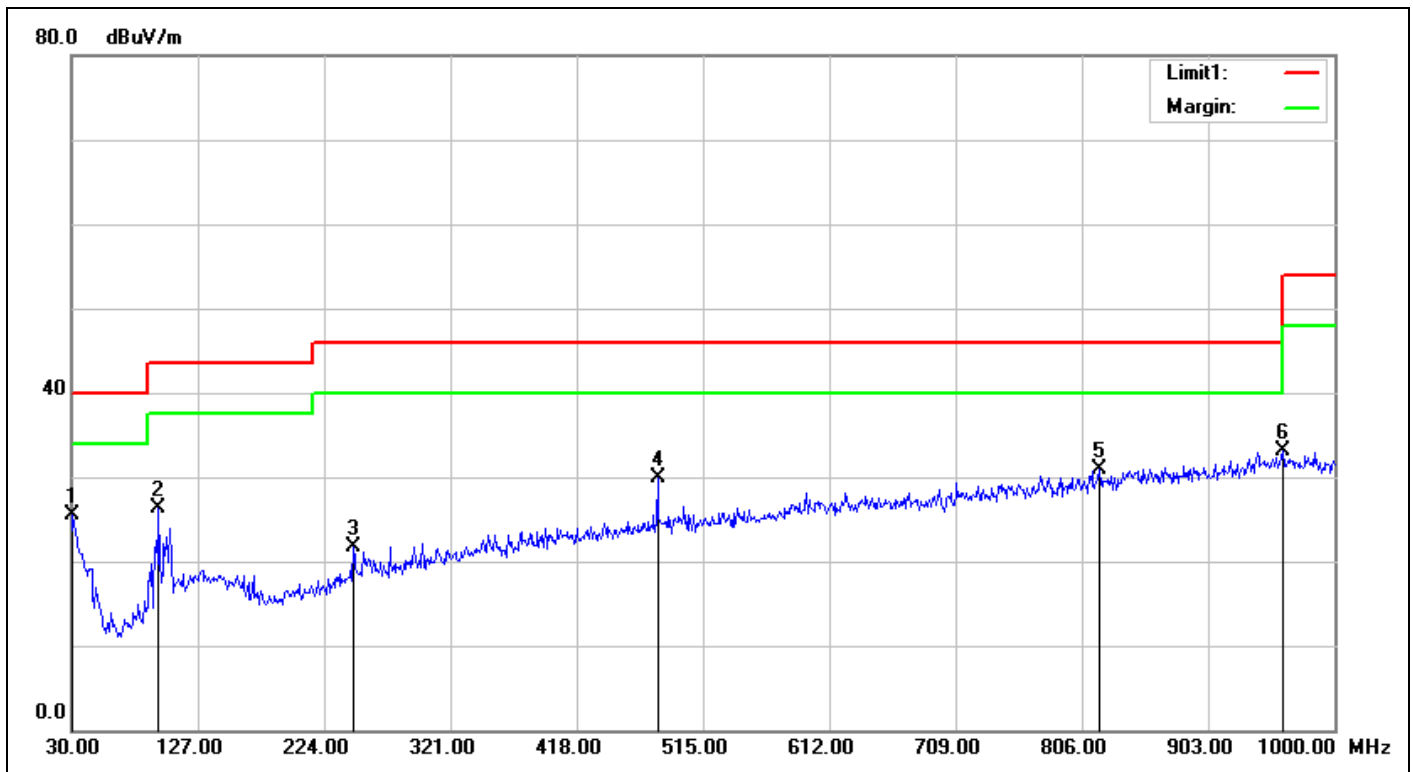
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:42:44</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.60          | 24.29          | 40.00          | -15.71      | QP   | 100         | 152           |        |
| 2   | 96.9300         | -11.09        | 37.13          | 26.04          | 43.50          | -17.46      | QP   | 100         | 192           |        |
| 3   | 299.6600        | -5.72         | 30.25          | 24.53          | 46.00          | -21.47      | QP   | 100         | 227           |        |
| 4   | 480.0800        | -2.48         | 33.12          | 30.64          | 46.00          | -15.36      | QP   | 100         | 43            |        |
| 5   | 665.3500        | -0.11         | 28.93          | 28.82          | 46.00          | -17.18      | QP   | 100         | 243           |        |
| 6   | 960.2300        | 5.11          | 29.75          | 34.86          | 54.00          | -19.14      | QP   | 100         | 187           |        |



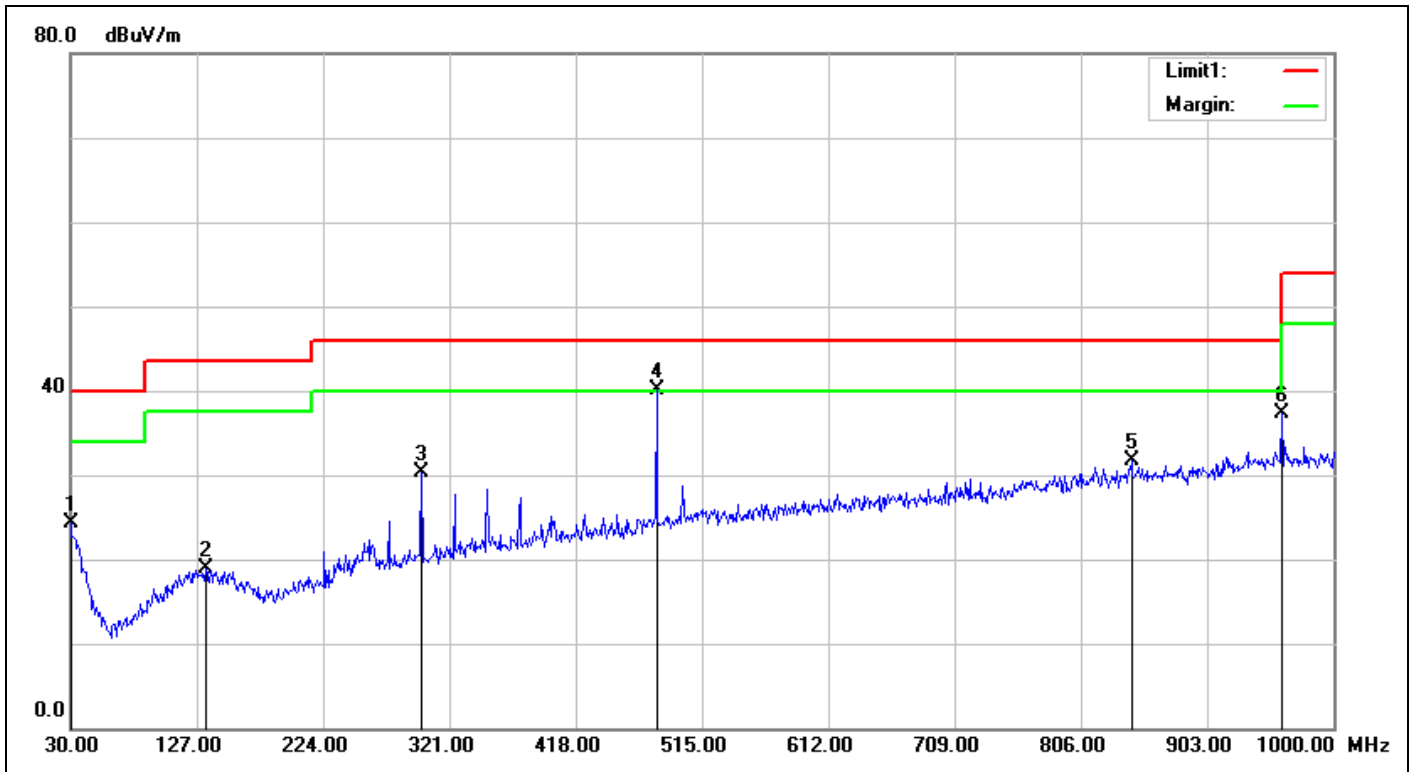
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:44:40</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.9699         | -1.80         | 26.30          | 24.50          | 40.00          | -15.50      | QP   | 100         | 171           |        |
| 2   | 146.4000        | -8.30         | 27.57          | 19.27          | 43.50          | -24.23      | QP   | 100         | 221           |        |
| 3   | 299.6600        | -5.72         | 36.16          | 30.44          | 46.00          | -15.56      | QP   | 100         | 306           |        |
| 4   | 480.0799        | -2.48         | 42.63          | 40.15          | 46.00          | -5.85       | QP   | 100         | 61            |        |
| 5   | 910.7599        | 4.03          | 29.27          | 33.30          | 46.00          | -12.70      | QP   | 100         | 181           |        |
| 6   | 960.2300        | 5.11          | 32.75          | 37.86          | 54.00          | -16.14      | QP   | 100         | 235           |        |



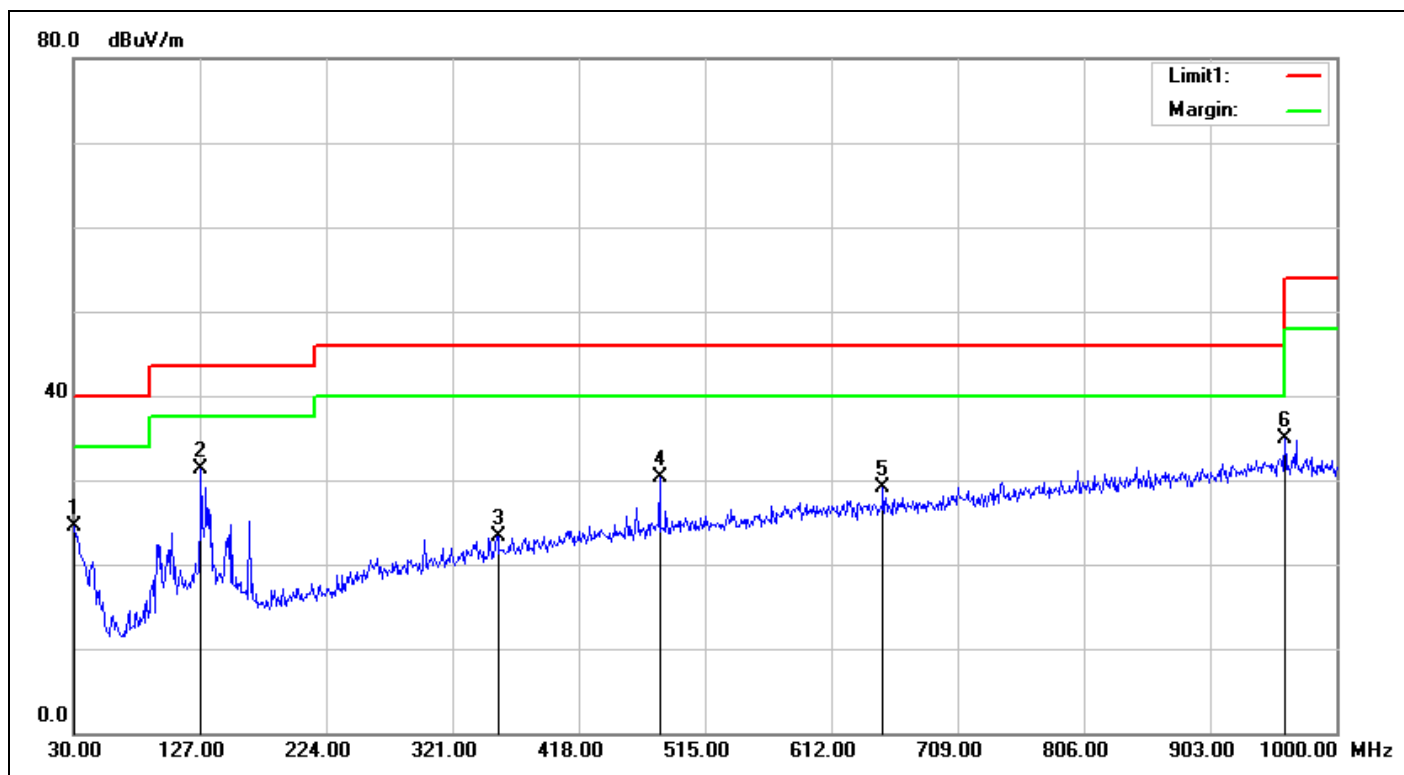
|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:45:43</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 26.82          | 25.51          | 40.00          | -14.49      | QP   | 100         | 320           |        |
| 2   | 96.9300         | -11.09        | 37.31          | 26.22          | 43.50          | -17.28      | QP   | 100         | 224           |        |
| 3   | 246.3100        | -7.35         | 29.01          | 21.66          | 46.00          | -24.34      | QP   | 100         | 86            |        |
| 4   | 480.0800        | -2.48         | 32.43          | 29.95          | 46.00          | -16.05      | QP   | 100         | 104           |        |
| 5   | 819.5800        | 2.63          | 28.19          | 30.82          | 46.00          | -15.18      | QP   | 100         | 3             |        |
| 6   | 960.2300        | 5.11          | 28.02          | 33.13          | 54.00          | -20.87      | QP   | 100         | 158           |        |



|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Horizontal</b>         |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:47:43</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.64          | 24.33          | 40.00          | -15.67      | QP   | 100         | 226           |        |
| 2   | 133.7899        | -8.06         | 26.98          | 18.92          | 43.50          | -24.58      | QP   | 100         | 80            |        |
| 3   | 299.6600        | -5.72         | 36.11          | 30.39          | 46.00          | -15.61      | QP   | 100         | 101           |        |
| 4   | 480.0799        | -2.48         | 42.65          | 40.17          | 46.00          | -5.83       | QP   | 100         | 61            |        |
| 5   | 844.7999        | 3.13          | 28.65          | 31.78          | 46.00          | -14.22      | QP   | 100         | 224           |        |
| 6   | 960.2300        | 5.11          | 32.22          | 37.33          | 54.00          | -16.67      | QP   | 100         | 213           |        |



|                       |                                 |                            |                           |
|-----------------------|---------------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>                | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC Class B 3M Radiation</b> | <b>Ant. Polarization:</b>  | <b>Vertical</b>           |
| <b>Test item:</b>     | <b>Radiation Emission</b>       | <b>Test Time:</b>          | <b>2017/8/15 14:48:46</b> |
| <b>Applicant:</b>     | <b>TPCast</b>                   | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>                | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>                     | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>              |                            |                           |
| <b>Remark:</b>        |                                 |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 30.0000         | -1.31         | 25.78          | 24.47          | 40.00          | -15.53      | QP   | 100         | 315           |        |
| 2   | 127.9700        | -8.14         | 39.45          | 31.31          | 43.50          | -12.19      | QP   | 100         | 149           |        |
| 3   | 355.9200        | -4.36         | 27.65          | 23.29          | 46.00          | -22.71      | QP   | 100         | 296           |        |
| 4   | 480.0800        | -2.48         | 32.77          | 30.29          | 46.00          | -15.71      | QP   | 100         | 97            |        |
| 5   | 651.7700        | -0.23         | 29.37          | 29.14          | 46.00          | -16.86      | QP   | 100         | 346           |        |
| 6   | 960.2300        | 5.11          | 29.88          | 34.99          | 54.00          | -19.01      | QP   | 100         | 152           |        |

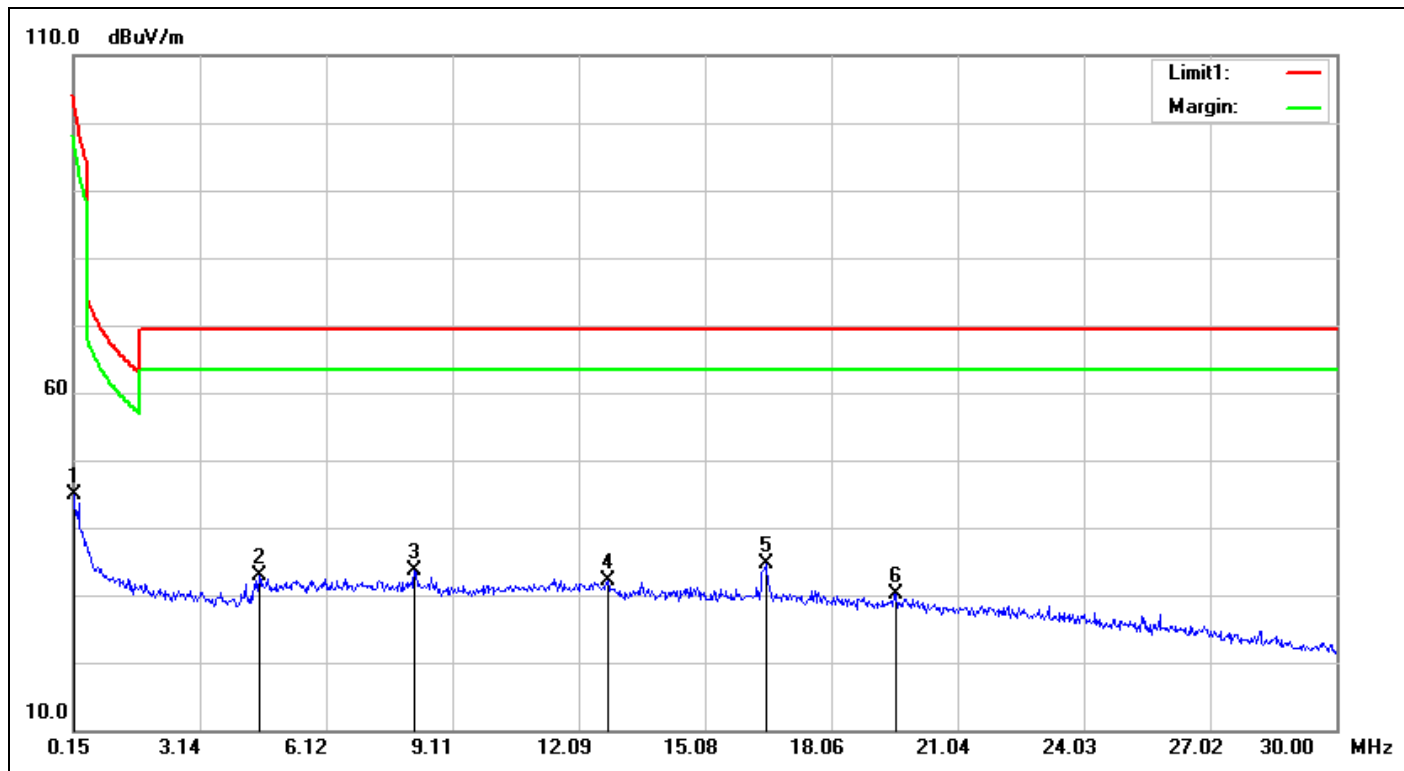
# Spurious Emissions, RX Mode, 150K-30M



**TUV Rheinland Taiwan Ltd.**

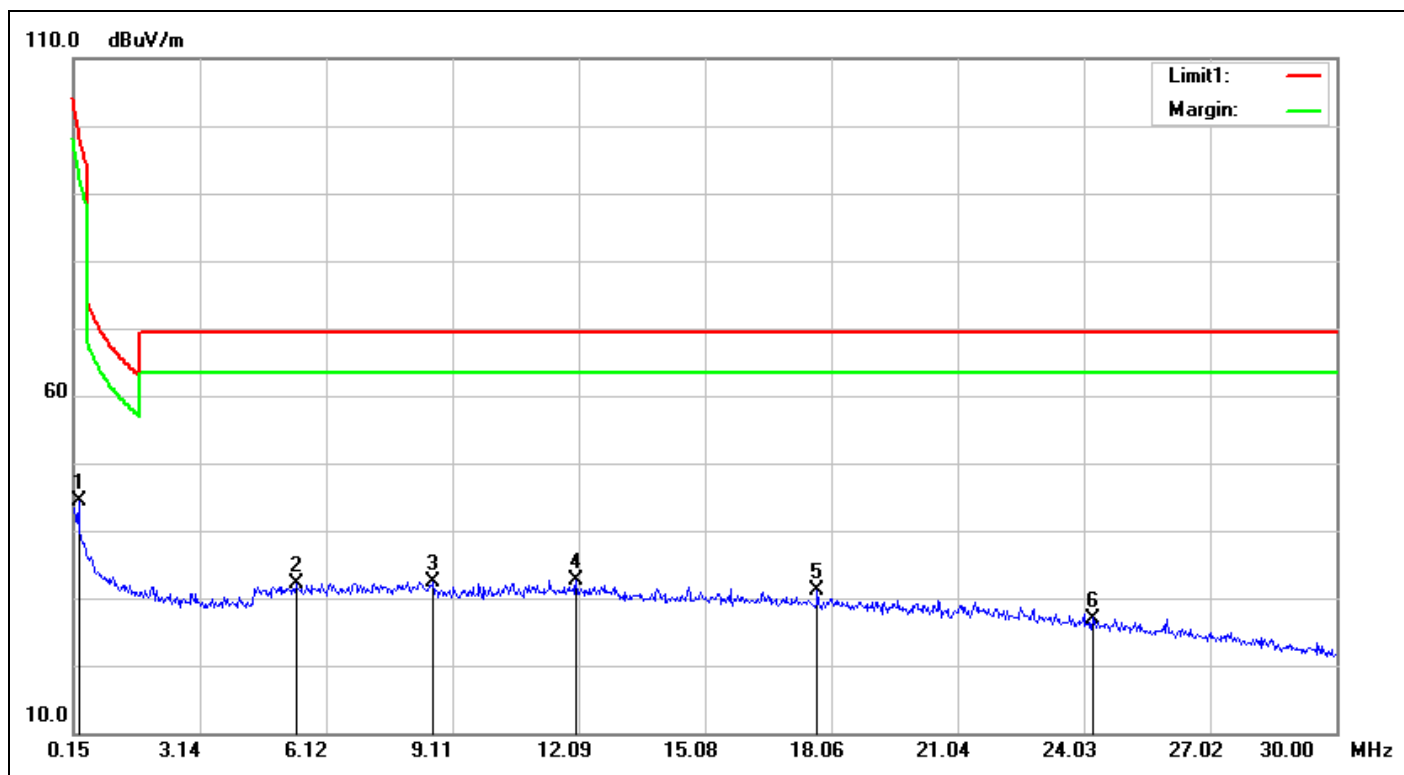
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



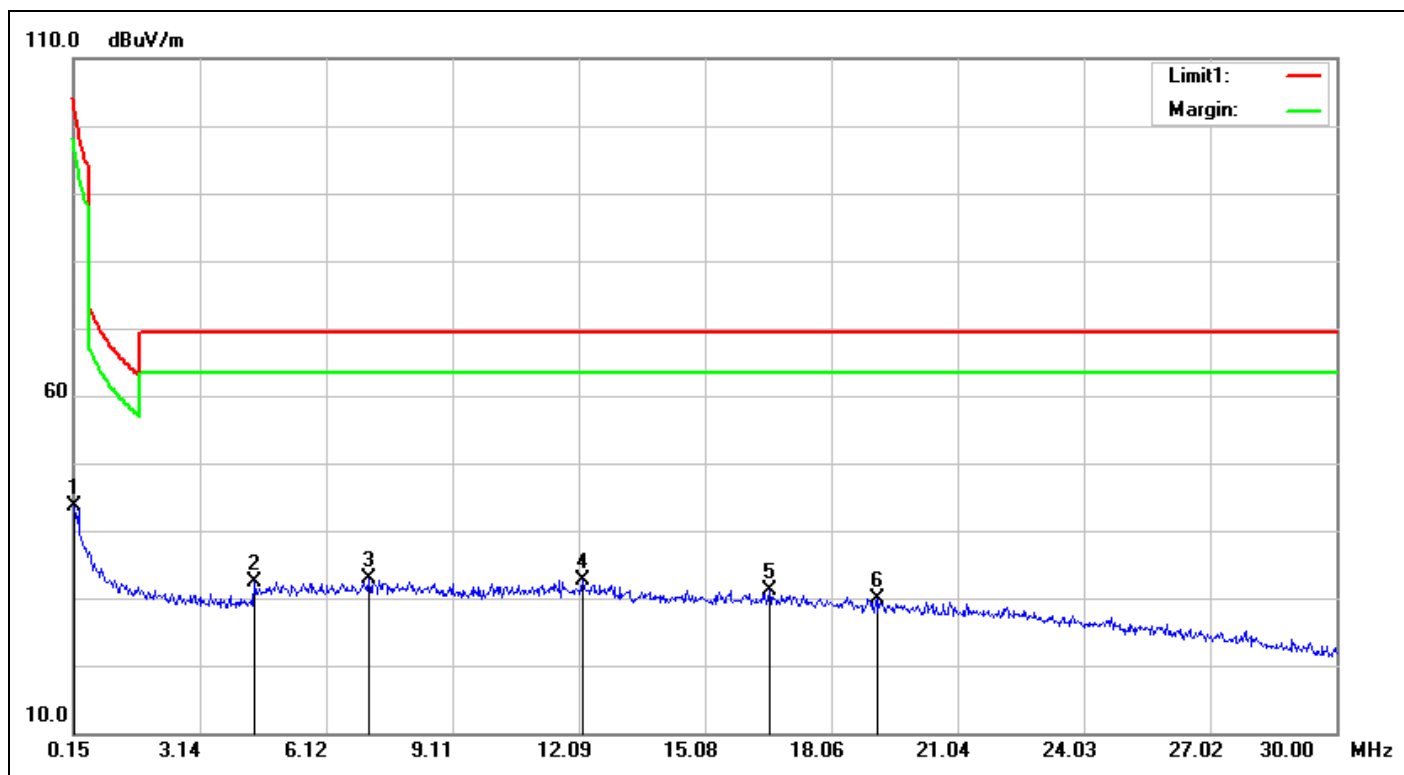
|                |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|
| Service No.:   | 114068806          | Test Distance:     | 3m                 |
| Test Standard: | FCC15.209_9k-1G_3m | Ant. Polarization: |                    |
| Test item:     | Radiation Emission | Test Time:         | 2017/8/15 14:09:58 |
| Applicant:     | TPCast             | Test Rating:       | DC 5V              |
| Product:       | Power Box          | Temp.(°C)/Hum.(%)  | 23(°C)/57%         |
| Model No.:     | AD-2               | Test Engineer:     | George Yang        |
| Test Mode:     | A20-5200-RX        |                    |                    |
| Remark:        |                    |                    |                    |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 0.1500          | 19.08         | 25.81          | 44.89          | 104.05         | -59.16      | QP   | 100         | 216         |        |
| 2   | 4.5380          | 19.47         | 13.46          | 32.93          | 69.50          | -36.57      | QP   | 100         | 0           |        |
| 3   | 8.2094          | 20.06         | 13.46          | 33.52          | 69.50          | -35.98      | QP   | 100         | 226         |        |
| 4   | 12.7766         | 20.71         | 11.38          | 32.09          | 69.50          | -37.41      | QP   | 100         | 176         |        |
| 5   | 16.5078         | 21.37         | 13.26          | 34.63          | 69.50          | -34.87      | QP   | 100         | 280         |        |
| 6   | 19.5823         | 21.91         | 8.23           | 30.14          | 69.50          | -39.36      | QP   | 100         | 88          |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:12:37</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.2694          | 18.97         | 25.34          | 44.31          | 98.98          | -54.67      | QP   | 100         | 312           |        |
| 2   | 5.4036          | 19.79         | 12.27          | 32.06          | 69.50          | -37.44      | QP   | 100         | 277           |        |
| 3   | 8.6572          | 20.09         | 12.40          | 32.49          | 69.50          | -37.01      | QP   | 100         | 62            |        |
| 4   | 12.0303         | 20.58         | 12.00          | 32.58          | 69.50          | -36.92      | QP   | 100         | 291           |        |
| 5   | 17.7316         | 21.58         | 9.62           | 31.20          | 69.50          | -38.30      | QP   | 100         | 166           |        |
| 6   | 24.2389         | 22.26         | 4.74           | 27.00          | 69.50          | -42.50      | QP   | 100         | 142           |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:15:46</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency<br>(MHz) | Factor<br>(dB/m) | Reading<br>(dBuV) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. | Height<br>(cm) | Azimuth<br>( ° ) | Remark |
|-----|--------------------|------------------|-------------------|-------------------|-------------------|----------------|------|----------------|------------------|--------|
| 1   | 0.1500             | 19.08            | 24.53             | 43.61             | 104.05            | -60.44         | QP   | 100            | 189              |        |
| 2   | 4.4185             | 19.40            | 13.07             | 32.47             | 69.50             | -37.03         | QP   | 100            | 221              |        |
| 3   | 7.1349             | 19.96            | 12.90             | 32.86             | 69.50             | -36.64         | QP   | 100            | 325              |        |
| 4   | 12.1796            | 20.60            | 11.91             | 32.51             | 69.50             | -36.99         | QP   | 100            | 147              |        |
| 5   | 16.5973            | 21.38            | 9.76              | 31.14             | 69.50             | -38.36         | QP   | 100            | 3                |        |
| 6   | 19.1345            | 21.83            | 8.12              | 29.95             | 69.50             | -39.55         | QP   | 100            | 360              |        |

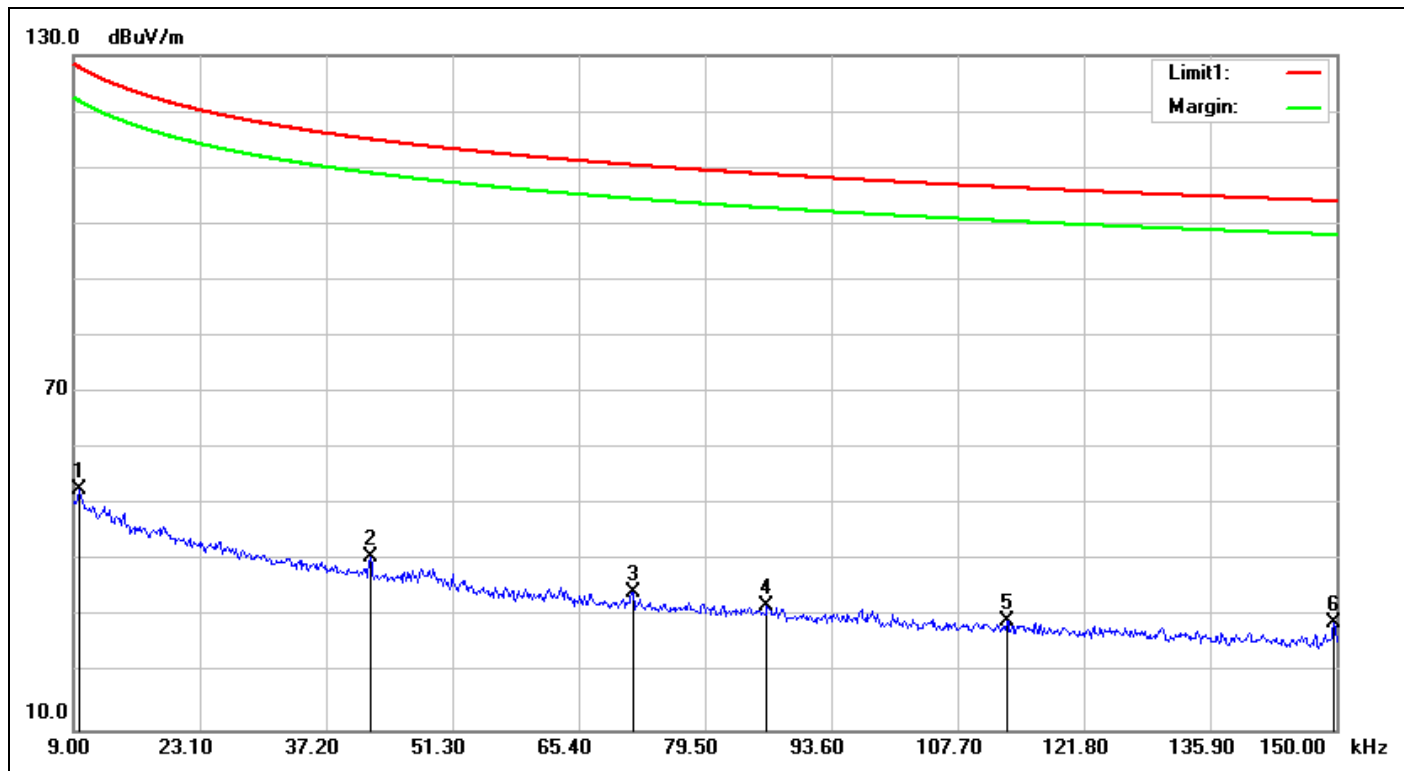
# Spurious Emissions, RX Mode, 9K-150K



**TUV Rheinland Taiwan Ltd.**

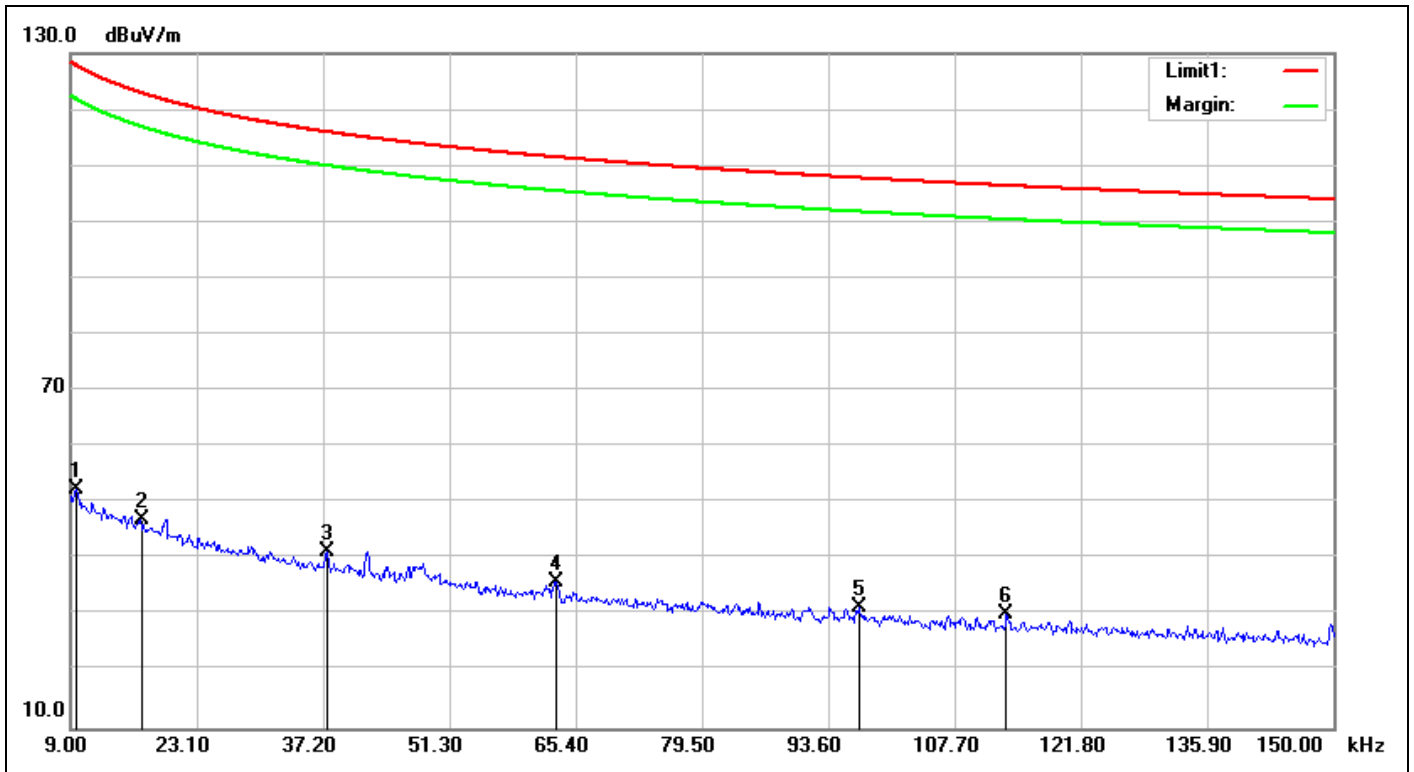
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



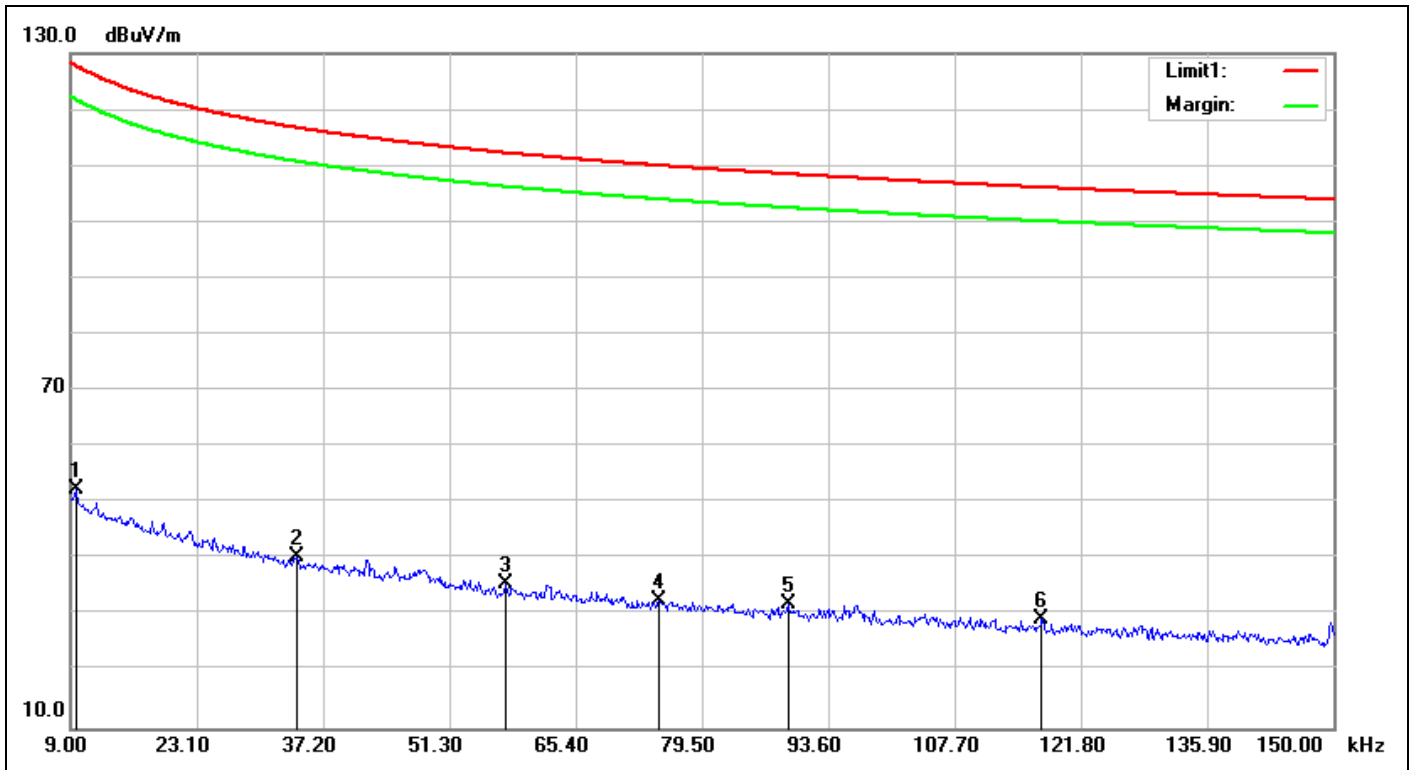
|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:03:45</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5200-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1   | 0.0096          | 19.78         | 32.94          | 52.72          | 127.84         | -75.12      | QP   | 100         | 235         |        |
| 2   | 0.0421          | 19.71         | 21.00          | 40.71          | 115.05         | -74.34      | QP   | 100         | 339         |        |
| 3   | 0.0715          | 19.30         | 15.22          | 34.52          | 110.46         | -75.94      | QP   | 100         | 59          |        |
| 4   | 0.0864          | 19.21         | 12.74          | 31.95          | 108.82         | -76.87      | QP   | 100         | 304         |        |
| 5   | 0.1132          | 19.12         | 10.35          | 29.47          | 106.48         | -77.01      | QP   | 100         | 141         |        |
| 6   | 0.1497          | 19.08         | 10.03          | 29.11          | 104.06         | -74.95      | QP   | 100         | 359         |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:06:29</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5220-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.0096          | 19.78         | 32.73          | 52.51          | 127.84         | -75.33      | QP   | 100         | 110           |        |
| 2   | 0.0168          | 20.00         | 27.19          | 47.19          | 123.00         | -75.81      | QP   | 100         | 317           |        |
| 3   | 0.0376          | 19.86         | 21.45          | 41.31          | 116.03         | -74.72      | QP   | 100         | 352           |        |
| 4   | 0.0631          | 19.35         | 16.54          | 35.89          | 111.54         | -75.65      | QP   | 100         | 264           |        |
| 5   | 0.0970          | 19.15         | 12.31          | 31.46          | 107.82         | -76.36      | QP   | 100         | 14            |        |
| 6   | 0.1135          | 19.12         | 11.18          | 30.30          | 106.46         | -76.16      | QP   | 100         | 27            |        |



|                       |                           |                            |                           |
|-----------------------|---------------------------|----------------------------|---------------------------|
| <b>Service No.:</b>   | <b>114068806</b>          | <b>Test Distance:</b>      | <b>3m</b>                 |
| <b>Test Standard:</b> | <b>FCC15.209_9k-1G_3m</b> | <b>Ant. Polarization:</b>  |                           |
| <b>Test item:</b>     | <b>Radiation Emission</b> | <b>Test Time:</b>          | <b>2017/8/15 14:19:17</b> |
| <b>Applicant:</b>     | <b>TPCast</b>             | <b>Test Rating:</b>        | <b>DC 5V</b>              |
| <b>Product:</b>       | <b>Power Box</b>          | <b>Temp.(°C)/Hum.(%)</b> : | <b>23(°C)/57%</b>         |
| <b>Model No.:</b>     | <b>AD-2</b>               | <b>Test Engineer:</b>      | <b>George Yang</b>        |
| <b>Test Mode:</b>     | <b>A20-5785-RX</b>        |                            |                           |
| <b>Remark:</b>        |                           |                            |                           |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth ( ° ) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.0096          | 19.80         | 32.52          | 52.32          | 127.75         | -75.43      | QP   | 100         | 259           |        |
| 2   | 0.0342          | 19.98         | 20.38          | 40.36          | 116.78         | -76.42      | QP   | 100         | 89            |        |
| 3   | 0.0576          | 19.38         | 16.41          | 35.79          | 112.28         | -76.49      | QP   | 100         | 333           |        |
| 4   | 0.0747          | 19.28         | 13.27          | 32.55          | 110.04         | -77.49      | QP   | 100         | 264           |        |
| 5   | 0.0891          | 19.20         | 12.92          | 32.12          | 108.51         | -76.39      | QP   | 100         | 72            |        |
| 6   | 0.1174          | 19.11         | 10.27          | 29.38          | 106.13         | -76.75      | QP   | 100         | 118           |        |