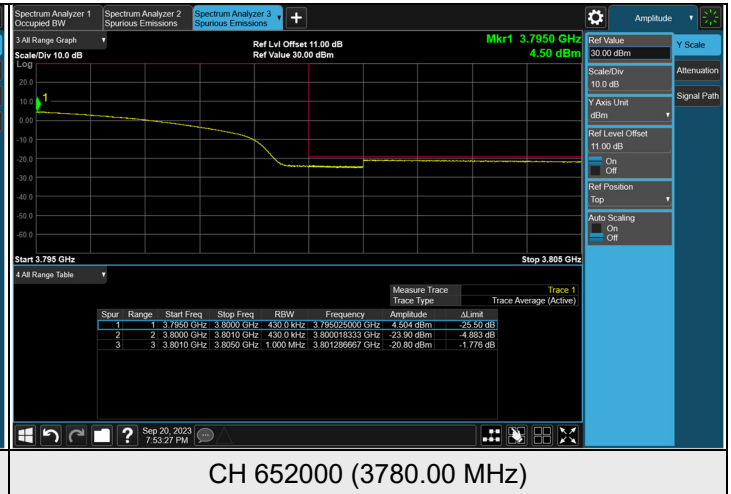
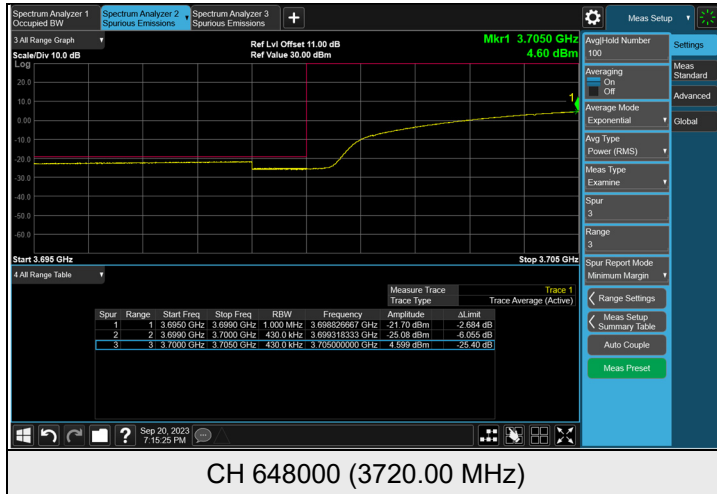




Ant. TX3



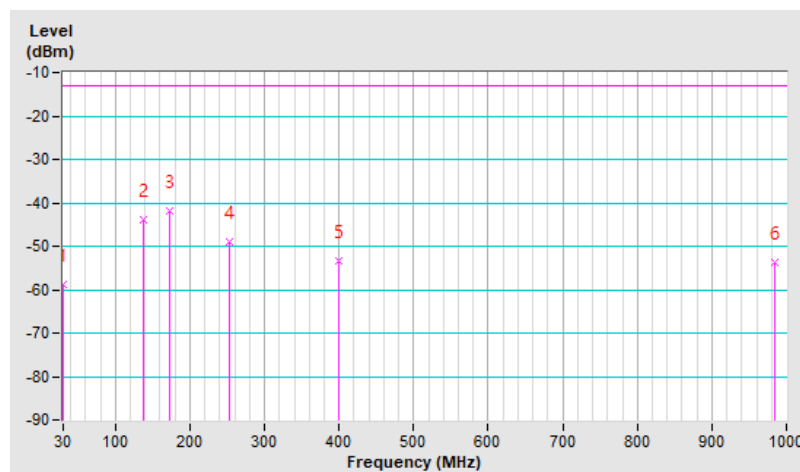
7.6 Radiated Spurious Emissions below 1GHz

| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 650000: 3750.00 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 30.97 | -58.80 | -13.00 | -45.80 | 1.50 H | 71 | 51.09 | -109.89 |
| 2 | 137.67 | -44.04 | -13.00 | -31.04 | 1.25 H | 244 | 64.91 | -108.95 |
| 3 | 172.59 | -42.00 | -13.00 | -29.00 | 1.00 H | 250 | 67.01 | -109.01 |
| 4 | 253.10 | -48.86 | -13.00 | -35.86 | 1.00 H | 94 | 60.90 | -109.76 |
| 5 | 400.54 | -53.44 | -13.00 | -40.44 | 1.00 H | 124 | 52.12 | -105.56 |
| 6 | 983.51 | -53.68 | -13.00 | -40.68 | 1.25 H | 91 | 41.70 | -95.38 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

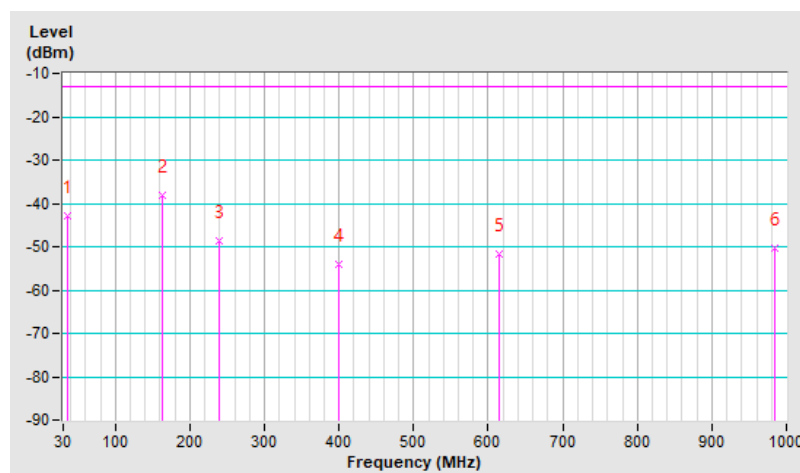


| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 650000: 3750.00 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|---------------|---------------|---------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 36.79 | -42.92 | -13.00 | -29.92 | 1.25 V | 1 | 66.25 | -109.17 |
| 2 | 163.86 | -38.02 | -13.00 | -25.02 | 1.00 V | 198 | 70.42 | -108.44 |
| 3 | 239.52 | -48.61 | -13.00 | -35.61 | 1.50 V | 280 | 61.50 | -110.11 |
| 4 | 400.54 | -53.98 | -13.00 | -40.98 | 1.00 V | 134 | 51.58 | -105.56 |
| 5 | 614.91 | -51.57 | -13.00 | -38.57 | 1.00 V | 269 | 49.00 | -100.57 |
| 6 | 983.51 | -50.23 | -13.00 | -37.23 | 2.00 V | 22 | 45.15 | -95.38 |

Remarks:

- EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
- Margin value = EIRP – Limit value
- The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

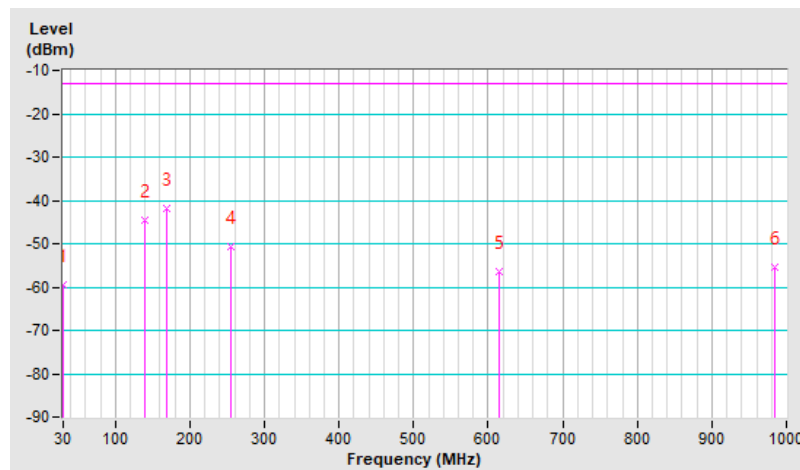


| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 653000: 3795.00 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 30.97 | -59.56 | -13.00 | -46.56 | 1.25 H | 100 | 50.33 | -109.89 |
| 2 | 139.61 | -44.60 | -13.00 | -31.60 | 1.00 H | 239 | 64.24 | -108.84 |
| 3 | 168.71 | -41.95 | -13.00 | -28.95 | 1.50 H | 233 | 66.75 | -108.70 |
| 4 | 254.07 | -50.65 | -13.00 | -37.65 | 1.50 H | 312 | 59.08 | -109.73 |
| 5 | 614.91 | -56.56 | -13.00 | -43.56 | 1.25 H | 179 | 44.01 | -100.57 |
| 6 | 983.51 | -55.30 | -13.00 | -42.30 | 2.00 H | 68 | 40.08 | -95.38 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



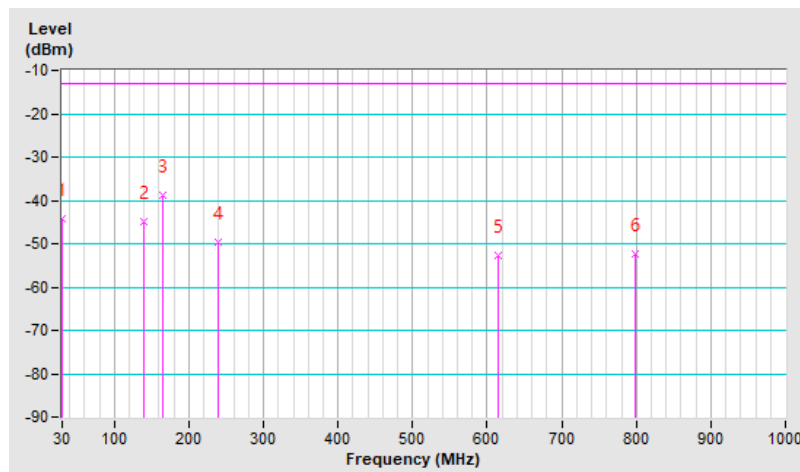


| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 653000: 3795.00 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 30.00 | -44.15 | -13.00 | -31.15 | 1.50 V | 253 | 65.55 | -109.70 |
| 2 | 139.61 | -44.79 | -13.00 | -31.79 | 1.00 V | 218 | 64.05 | -108.84 |
| 3 | 164.83 | -38.86 | -13.00 | -25.86 | 1.25 V | 197 | 69.69 | -108.55 |
| 4 | 238.55 | -49.75 | -13.00 | -36.75 | 1.25 V | 299 | 60.43 | -110.18 |
| 5 | 614.91 | -52.73 | -13.00 | -39.73 | 1.50 V | 274 | 47.84 | -100.57 |
| 6 | 798.24 | -52.54 | -13.00 | -39.54 | 2.00 V | 98 | 45.26 | -97.80 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Radiated Spurious Emissions above 1GHz

| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 647000: 3705.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 7410.00 | -31.47 | -13.00 | -18.47 | 1.92 H | 188 | 55.87 | -87.34 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 7410.00 | -30.70 | -13.00 | -17.70 | 1.14 V | 350 | 56.64 | -87.34 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 650000: 3750.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -31.82 | -13.00 | -18.82 | 1.97 H | 191 | 55.48 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -30.01 | -13.00 | -17.01 | 1.09 V | 352 | 57.29 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 653000: 3795.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7590.00 | -32.25 | -13.00 | -19.25 | 1.94 H | 186 | 55.37 | -87.62 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7590.00 | -30.19 | -13.00 | -17.19 | 1.14 V | 347 | 57.43 | -87.62 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 647334: 3710.01 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7420.02 | -34.10 | -13.00 | -21.10 | 1.93 H | 186 | 53.23 | -87.33 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7420.02 | -32.59 | -13.00 | -19.59 | 1.16 V | 352 | 54.74 | -87.33 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 650000: 3750 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -34.05 | -13.00 | -21.05 | 1.97 H | 186 | 53.25 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -31.89 | -13.00 | -18.89 | 1.12 V | 348 | 55.41 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 652666: 3789.99 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7579.98 | -34.22 | -13.00 | -21.22 | 1.99 H | 186 | 53.38 | -87.60 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7579.98 | -32.84 | -13.00 | -19.84 | 1.15 V | 349 | 54.76 | -87.60 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 648000: 3720 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7440.00 | -35.51 | -13.00 | -22.51 | 1.92 H | 190 | 51.79 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7440.00 | -34.58 | -13.00 | -21.58 | 1.01 V | 359 | 52.72 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 650000: 3750 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -35.92 | -13.00 | -22.92 | 1.94 H | 187 | 51.38 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -34.17 | -13.00 | -21.17 | 1.09 V | 357 | 53.13 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 652000: 3780 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | A |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7560.00 | -36.07 | -13.00 | -23.07 | 1.91 H | 185 | 51.49 | -87.56 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7560.00 | -35.31 | -13.00 | -22.31 | 1.05 V | 356 | 52.25 | -87.56 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 647000: 3705.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7410.00 | -33.02 | -13.00 | -20.02 | 2.09 H | 97 | 54.32 | -87.34 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7410.00 | -30.53 | -13.00 | -17.53 | 2.13 V | 162 | 56.81 | -87.34 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 650000: 3750.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -32.88 | -13.00 | -19.88 | 2.11 H | 103 | 54.42 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -30.39 | -13.00 | -17.39 | 2.18 V | 158 | 56.91 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 10MHz | Channel | CH 653000: 3795.00 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7590.00 | -32.87 | -13.00 | -19.87 | 2.04 H | 102 | 54.75 | -87.62 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7590.00 | -30.23 | -13.00 | -17.23 | 2.19 V | 156 | 57.39 | -87.62 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 647334: 3710.01 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7420.02 | -34.84 | -13.00 | -21.84 | 2.11 H | 109 | 52.49 | -87.33 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7420.02 | -31.84 | -13.00 | -18.84 | 2.25 V | 163 | 55.49 | -87.33 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 650000: 3750 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -34.93 | -13.00 | -21.93 | 2.16 H | 105 | 52.37 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -31.86 | -13.00 | -18.86 | 2.26 V | 161 | 55.44 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|------------------------|
| RF Mode | NR n78 Channel Bandwidth: 20MHz | Channel | CH 652666: 3789.99 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7579.98 | -35.15 | -13.00 | -22.15 | 2.09 H | 116 | 52.45 | -87.60 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7579.98 | -32.24 | -13.00 | -19.24 | 2.27 V | 156 | 55.36 | -87.60 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 648000: 3720 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7440.00 | -37.07 | -13.00 | -24.07 | 2.03 H | 101 | 50.23 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7440.00 | -34.22 | -13.00 | -21.22 | 2.11 V | 160 | 53.08 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 650000: 3750 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -37.04 | -13.00 | -24.04 | 2.06 H | 103 | 50.26 | -87.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7500.00 | -34.27 | -13.00 | -21.27 | 2.18 V | 162 | 53.03 | -87.30 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



| | | | |
|------------------------|------------------------------------|--|---------------------|
| RF Mode | NR n78 Channel Bandwidth: 40MHz | Channel | CH 652000: 3780 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Greg Lin | Test Mode | B |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7560.00 | -36.75 | -13.00 | -23.75 | 2.09 H | 98 | 50.81 | -87.56 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 7579.98 | -34.44 | -13.00 | -21.44 | 2.13 V | 159 | 53.16 | -87.60 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.8 Frequency Stability

| | | | |
|---------------------------|--------------|------------|-----------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Ted Chang |
|---------------------------|--------------|------------|-----------|

NR n78, Channel Bandwidth: 10 MHz

Ant. TX0

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3705.000001 | 0.000270 | 3794.999999 | -0.000264 |
| 102.0 | 3705.000004 | 0.001080 | 3794.999996 | -0.001054 |
| 132.0 | 3704.999997 | -0.000810 | 3794.999997 | -0.000791 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3704.999996 | -0.001080 | 3794.999998 | -0.000527 |
| -20 | 3705.000004 | 0.001080 | 3795.000001 | 0.000264 |
| -10 | 3704.999996 | -0.001080 | 3795.000004 | 0.001054 |
| 0 | 3705.000003 | 0.000810 | 3795.000004 | 0.001054 |
| 10 | 3705.000002 | 0.000540 | 3794.999996 | -0.001054 |
| 20 | 3704.999996 | -0.001080 | 3795.000002 | 0.000527 |
| 30 | 3705.000001 | 0.000270 | 3794.999999 | -0.000264 |
| 40 | 3704.999997 | -0.000810 | 3794.999999 | -0.000264 |
| 50 | 3705.000004 | 0.001080 | 3794.999996 | -0.001054 |

Ant. TX1

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3705.000001 | 0.000270 | 3794.999999 | -0.000264 |
| 102.0 | 3704.999999 | -0.000270 | 3795.000001 | 0.000264 |
| 132.0 | 3705.000001 | 0.000270 | 3794.999999 | -0.000264 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3705.000004 | 0.001080 | 3794.999997 | -0.000791 |
| -20 | 3704.999999 | -0.000270 | 3795.000002 | 0.000527 |
| -10 | 3704.999996 | -0.001080 | 3794.999996 | -0.001054 |
| 0 | 3705.000004 | 0.001080 | 3795.000001 | 0.000264 |
| 10 | 3704.999996 | -0.001080 | 3794.999996 | -0.001054 |
| 20 | 3704.999996 | -0.001080 | 3794.999998 | -0.000527 |
| 30 | 3705.000004 | 0.001080 | 3794.999998 | -0.000527 |
| 40 | 3704.999998 | -0.000540 | 3795.000003 | 0.000791 |
| 50 | 3704.999996 | -0.001080 | 3795.000004 | 0.001054 |

Ant. TX2

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3704.999996 | -0.001080 | 3795.000004 | 0.001054 |
| 102.0 | 3705.000002 | 0.000540 | 3794.999996 | -0.001054 |
| 132.0 | 3704.999998 | -0.000540 | 3795.000001 | 0.000264 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3705.000002 | 0.000540 | 3795.000001 | 0.000264 |
| -20 | 3705.000003 | 0.000810 | 3794.999996 | -0.001054 |
| -10 | 3704.999996 | -0.001080 | 3794.999999 | -0.000264 |
| 0 | 3704.999998 | -0.000540 | 3795.000002 | 0.000527 |
| 10 | 3705.000002 | 0.000540 | 3795.000002 | 0.000527 |
| 20 | 3704.999997 | -0.000810 | 3794.999999 | -0.000264 |
| 30 | 3704.999997 | -0.000810 | 3794.999996 | -0.001054 |
| 40 | 3705.000003 | 0.000810 | 3794.999999 | -0.000264 |
| 50 | 3705.000003 | 0.000810 | 3795.000004 | 0.001054 |

Ant. TX3

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3705.000003 | 0.000810 | 3794.999999 | -0.000264 |
| 102.0 | 3705.000003 | 0.000810 | 3795.000004 | 0.001054 |
| 132.0 | 3705.000002 | 0.000540 | 3795.000004 | 0.001054 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647000 (3705.00 MHz) | | CH 653000 (3795.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3705.000003 | 0.000810 | 3795.000001 | 0.000264 |
| -20 | 3705.000002 | 0.000540 | 3795.000003 | 0.000791 |
| -10 | 3704.999999 | -0.000270 | 3795.000002 | 0.000527 |
| 0 | 3705.000003 | 0.000810 | 3794.999999 | -0.000264 |
| 10 | 3704.999999 | -0.000270 | 3795.000001 | 0.000264 |
| 20 | 3704.999998 | -0.000540 | 3795.000004 | 0.001054 |
| 30 | 3704.999997 | -0.000810 | 3795.000002 | 0.000527 |
| 40 | 3704.999999 | -0.000270 | 3795.000003 | 0.000791 |
| 50 | 3705.000003 | 0.000810 | 3794.999998 | -0.000527 |

NR n78, Channel Bandwidth: 20 MHz

Ant. TX0

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3710.009996 | -0.001078 | 3789.990003 | 0.000792 |
| 102.0 | 3710.009998 | -0.000539 | 3789.989997 | -0.000792 |
| 132.0 | 3710.010003 | 0.000809 | 3789.989997 | -0.000792 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3710.010001 | 0.000270 | 3789.990001 | 0.000264 |
| -20 | 3710.009998 | -0.000539 | 3789.990003 | 0.000792 |
| -10 | 3710.010003 | 0.000809 | 3789.989998 | -0.000528 |
| 0 | 3710.010001 | 0.000270 | 3789.989999 | -0.000264 |
| 10 | 3710.009999 | -0.000270 | 3789.989997 | -0.000792 |
| 20 | 3710.009996 | -0.001078 | 3789.989996 | -0.001055 |
| 30 | 3710.010003 | 0.000809 | 3789.989997 | -0.000792 |
| 40 | 3710.010004 | 0.001078 | 3789.990003 | 0.000792 |
| 50 | 3710.009997 | -0.000809 | 3789.990001 | 0.000264 |

Ant. TX1

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3710.010001 | 0.000270 | 3789.989997 | -0.000792 |
| 102.0 | 3710.009998 | -0.000539 | 3789.989998 | -0.000528 |
| 132.0 | 3710.010002 | 0.000539 | 3789.990001 | 0.000264 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3710.009997 | -0.000809 | 3789.990002 | 0.000528 |
| -20 | 3710.009998 | -0.000539 | 3789.990001 | 0.000264 |
| -10 | 3710.010002 | 0.000539 | 3789.990003 | 0.000792 |
| 0 | 3710.009999 | -0.000270 | 3789.989997 | -0.000792 |
| 10 | 3710.010003 | 0.000809 | 3789.990004 | 0.001055 |
| 20 | 3710.010003 | 0.000809 | 3789.989997 | -0.000792 |
| 30 | 3710.009997 | -0.000809 | 3789.990004 | 0.001055 |
| 40 | 3710.009997 | -0.000809 | 3789.989999 | -0.000264 |
| 50 | 3710.009996 | -0.001078 | 3789.990004 | 0.001055 |

Ant. TX2

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3710.009996 | -0.001078 | 3789.990002 | 0.000528 |
| 102.0 | 3710.009996 | -0.001078 | 3789.989997 | -0.000792 |
| 132.0 | 3710.010002 | 0.000539 | 3789.990004 | 0.001055 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3710.009998 | -0.000539 | 3789.990004 | 0.001055 |
| -20 | 3710.010003 | 0.000809 | 3789.989996 | -0.001055 |
| -10 | 3710.009999 | -0.000270 | 3789.990003 | 0.000792 |
| 0 | 3710.009996 | -0.001078 | 3789.989998 | -0.000528 |
| 10 | 3710.010002 | 0.000539 | 3789.990002 | 0.000528 |
| 20 | 3710.010004 | 0.001078 | 3789.989996 | -0.001055 |
| 30 | 3710.009999 | -0.000270 | 3789.989999 | -0.000264 |
| 40 | 3710.009998 | -0.000539 | 3789.990001 | 0.000264 |
| 50 | 3710.009999 | -0.000270 | 3789.990002 | 0.000528 |

Ant. TX3

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3710.010002 | 0.000539 | 3789.990002 | 0.000528 |
| 102.0 | 3710.009999 | -0.000270 | 3789.989997 | -0.000792 |
| 132.0 | 3710.009998 | -0.000539 | 3789.990003 | 0.000792 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 647334 (3710.01 MHz) | | CH 652666 (3789.99 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3710.010002 | 0.000539 | 3789.990001 | 0.000264 |
| -20 | 3710.010003 | 0.000809 | 3789.989998 | -0.000528 |
| -10 | 3710.009996 | -0.001078 | 3789.989997 | -0.000792 |
| 0 | 3710.010002 | 0.000539 | 3789.989996 | -0.001055 |
| 10 | 3710.009999 | -0.000270 | 3789.990002 | 0.000528 |
| 20 | 3710.010003 | 0.000809 | 3789.989997 | -0.000792 |
| 30 | 3710.009996 | -0.001078 | 3789.990004 | 0.001055 |
| 40 | 3710.010004 | 0.001078 | 3789.989998 | -0.000528 |
| 50 | 3710.010002 | 0.000539 | 3789.990003 | 0.000792 |

NR n78, Channel Bandwidth: 40 MHz

Ant. TX0

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3719.999997 | -0.000806 | 3780.000004 | 0.001058 |
| 102.0 | 3720.000001 | 0.000269 | 3780.000004 | 0.001058 |
| 132.0 | 3719.999998 | -0.000538 | 3780.000001 | 0.000265 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3719.999996 | -0.001075 | 3779.999997 | -0.000794 |
| -20 | 3719.999997 | -0.000806 | 3779.999996 | -0.001058 |
| -10 | 3720.000004 | 0.001075 | 3779.999998 | -0.000529 |
| 0 | 3720.000001 | 0.000269 | 3779.999998 | -0.000529 |
| 10 | 3719.999997 | -0.000806 | 3780.000001 | 0.000265 |
| 20 | 3720.000001 | 0.000269 | 3779.999999 | -0.000265 |
| 30 | 3720.000001 | 0.000269 | 3779.999998 | -0.000529 |
| 40 | 3720.000003 | 0.000806 | 3779.999997 | -0.000794 |
| 50 | 3720.000001 | 0.000269 | 3779.999996 | -0.001058 |

Ant. TX1

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3720.000004 | 0.001075 | 3780.000001 | 0.000265 |
| 102.0 | 3720.000001 | 0.000269 | 3780.000002 | 0.000529 |
| 132.0 | 3719.999997 | -0.000806 | 3779.999997 | -0.000794 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3719.999996 | -0.001075 | 3780.000001 | 0.000265 |
| -20 | 3719.999998 | -0.000538 | 3779.999999 | -0.000265 |
| -10 | 3720.000001 | 0.000269 | 3780.000004 | 0.001058 |
| 0 | 3719.999999 | -0.000269 | 3779.999998 | -0.000529 |
| 10 | 3720.000002 | 0.000538 | 3780.000003 | 0.000794 |
| 20 | 3719.999999 | -0.000269 | 3780.000004 | 0.001058 |
| 30 | 3719.999999 | -0.000269 | 3780.000004 | 0.001058 |
| 40 | 3720.000004 | 0.001075 | 3779.999998 | -0.000529 |
| 50 | 3720.000002 | 0.000538 | 3779.999999 | -0.000265 |

Ant. TX2

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3719.999999 | -0.000269 | 3779.999998 | -0.000529 |
| 102.0 | 3720.000002 | 0.000538 | 3779.999998 | -0.000529 |
| 132.0 | 3719.999998 | -0.000538 | 3779.999996 | -0.001058 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3720.000002 | 0.000538 | 3780.000004 | 0.001058 |
| -20 | 3719.999999 | -0.000269 | 3779.999999 | -0.000265 |
| -10 | 3720.000001 | 0.000269 | 3780.000004 | 0.001058 |
| 0 | 3720.000003 | 0.000806 | 3780.000001 | 0.000265 |
| 10 | 3720.000003 | 0.000806 | 3780.000001 | 0.000265 |
| 20 | 3719.999997 | -0.000806 | 3780.000001 | 0.000265 |
| 30 | 3719.999999 | -0.000269 | 3779.999996 | -0.001058 |
| 40 | 3719.999998 | -0.000538 | 3780.000001 | 0.000265 |
| 50 | 3719.999998 | -0.000538 | 3779.999998 | -0.000529 |

Ant. TX3

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| Voltage (Vac) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 120.0 | 3719.999999 | -0.000269 | 3779.999998 | -0.000529 |
| 102.0 | 3719.999996 | -0.001075 | 3780.000003 | 0.000794 |
| 132.0 | 3720.000001 | 0.000269 | 3779.999996 | -0.001058 |

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

| Frequency Stability Versus Temperature | | | | |
|--|-------------------------|-----------------------|-------------------------|-----------------------|
| Temperature (°C) | CH 648000 (3720.00 MHz) | | CH 652000 (3780.00 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 3720.000001 | 0.000269 | 3780.000001 | 0.000265 |
| -20 | 3720.000002 | 0.000538 | 3779.999999 | -0.000265 |
| -10 | 3720.000003 | 0.000806 | 3780.000004 | 0.001058 |
| 0 | 3720.000001 | 0.000269 | 3780.000004 | 0.001058 |
| 10 | 3720.000003 | 0.000806 | 3780.000003 | 0.000794 |
| 20 | 3720.000001 | 0.000269 | 3779.999996 | -0.001058 |
| 30 | 3720.000003 | 0.000806 | 3779.999996 | -0.001058 |
| 40 | 3719.999996 | -0.001075 | 3779.999998 | -0.000529 |
| 50 | 3720.000002 | 0.000538 | 3780.000001 | 0.000265 |

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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