Figure 4i
Antenna Conducted Spurious Emissions 15.247(c) High


Figure 4j
Antenna Conducted Spurious Emissions 15.247(c) High


Note: Signal shown represents Fundamental Frequency.

## FCC ID: HSW-2410G

Figure 4k
Antenna Conducted Spurious Emissions 15.247(c) High


## FCC ID: HSW-2410G

Figure 41

## Antenna Conducted Spurious Emissions 15.247(c) High



### 2.8 Peak Radiated Spurious Emission in the Frequency Range $\mathbf{3 0} \mathbf{- 2 5 0 0 0} \mathbf{~ M H z}$ (FCC Section 15.247(c))

The EUT was hop-stopped and when possible, placed into a continuous transmit mode of operation. A preliminary scan was performed on the EUT to determine frequencies that were caused by the transmitter portion of the product. Significant emissions that fell within restricted bands were then measured on an OAT's site. Radiated measurements below 1 GHz were tested with a RBW $=120 \mathrm{kHz}$. Radiated measurements above 1 GHz were measured using a $\mathrm{RBW}=\mathrm{VBW}=1 \mathrm{MHz}$. The results of peak radiated spurious emissions falling within restricted bands are given in Table $4 a-4 u$ and Figure $4 a$ - Figure $4 u$.

Table 4a. PEAK RADIATED SPURIOUS EMISSIONS (Low) Parabolic Dish Antenna

| Radiated Spurious Emissions |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test By: | Test::Spurious Emissions-Parabolic AntennaLow Channel |  |  |  |  | Client: | Cirronet |  |
| AT | Project: | 05-0311 |  | Class: | Peak | Model: |  | 410G |
| Frequenc | Range | Table | Model |  | S/N | Valid | Calibrated: |  |
|  |  | 2hn3mh | Model : SAS-571 |  | S/N 605 | Yes | 01 APR 05 |  |
|  |  | preamp |  |  | S/N | Yes | June/30/2005 |  |
|  |  | flex2ft |  |  | S/N | Yes | 05/Jec/2005 |  |
|  |  | flex17ft |  |  | S/N | Yes | 05/Jec/2005 |  |
| Frequency | Test Data | AF | Test Data | $\begin{gathered} \text { AF+CA- } \\ \text { AMP } \end{gathered}$ | Results | Limits | $\begin{gathered} \hline \text { Margi } \\ \mathrm{n} \end{gathered}$ | PK = n |
| (MHz) | (dBm) | Table | (dBuV) | (dB) | (uV/m) | (uV/m) | (dB) | / QP |
| 2401.55 | -8.3 | 2hn3mh | 98.7 | 31.6 | 3283436.7 |  |  | PK |
| 4803.351 | -48.0 | 2 hn 3 mh | 59.0 | 5.4 | 1673.8 | 5000.0 | 9.5 | PK |
| 7205.45 | -46.2 | 2hn3mh | 60.8 | 10.7 | 3774.9 | 328343.7 | 38.8 | PK** |
| 9607.287 | -66.2 | $2 \mathrm{hn3mh}$ | 40.9 | 13.3 | 510.3 | 328343.7 | 56.2 | PK** |
| 12008.96 | -66.9 | $2 \mathrm{hn3mh}$ | 40.1 | 18.9 | 891.0 | 5000.0 | 15.0 | PK** |

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental
** Conversion from 1 meter to 3 meters $=-9.54 \mathrm{~dB}$
SAMPLE CALCULATION:
RESULTS $(u V / m @ 3 m)=$ Antilog $((-48.0+5.4+107) / 20)=1673.8$
CONVERSION FROM dBm TO dBuV = 107 dB

Tester Signature:


Name: Austin Thompson

FCC ID: HSW-2410G

Figure 4a-1
Peak Radiated Spurious Emission 15.247(c) Fundamental Low - Parabolic Dish


Figure 4a-2

## Peak Radiated Spurious Emission 15.247(c) Low - Parabolic Dish

43: 23: 2ø MAR ø6, 2øø6


Figure 4a-3
Peak Radiated Spurious Emission 15.247(c) Low - Parabolic Dish


Figure 4a-4

## Peak Radiated Spurious Emission 15.247(c) Low - Parabolic Dish



FCC ID: HSW-2410G

Figure 4a-5
Peak Radiated Spurious Emission 15.247(c) Low - Parabolic Dish


Table 4b. PEAK RADIATED SPURIOUS EMISSIONS (Mid) Parabolic Dish Antenna

| Radiated Spurious Emissions |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test By: | Test: | Spurious Emissions-Parabolic AntennaMid Channel |  |  |  | Client: | Cirronet |  |
| AT | Project: | 05-0311 |  | Class: | Peak | Model: | WIT2410G |  |
| Frequency Range |  | Table | Model |  | S/N | Valid | Calibrated: |  |
|  |  | $2 \mathrm{hn3mh}$ | Model : SAS-571 |  | S/N 605 | Yes | 01 APR 05 |  |
|  |  | preamp |  |  | S/N | Yes | June/80/2005 |  |
|  |  | flex2ft |  |  | S/N | Yes | 05/Des/2005 |  |
|  |  | flex17ft |  |  | S/N | Yes | 05/Des/2005 |  |
| Frequency | Test Data | AF | Test Data | $\mathrm{AF}+\mathrm{CA}-$ AMP | Results | Limits | Margin | PK = $n$ |
| (MHz) | (dBm) | Table | (dBuV) | (dB) | ( $\mathrm{uV} / \mathrm{m}$ ) | ( $\mathrm{uV} / \mathrm{m}$ ) | (dB) | / QP |
| 2435.63 | -8.3 | 2hn3mh | 98.7 | 31.7 | 3308695.9 |  |  | PK |
| 4871.838 | -45.6 | 2hn3mh | 61.4 | 5.7 | 2263.7 | 5000.0 | 6.9 | PK |
| 7306.638 | -48.0 | 2hn3mh | 59.0 | 10.9 | 3118.9 | 5000.0 | 4.1 | $\mathrm{PK}^{* *}$ |
| 9743.687 | -63.9 | 2hn3mh | 43.2 | 13.5 | 677.5 | 330869.6 | 53.8 | PK** |
| 12179.43 | -68.4 | 2hn3mh | 38.6 | 19.3 | 786.8 | 5000.0 | 16.1 | PK** |

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental
** Conversion from 1 meter to 3 meters $=-9.54 \mathrm{~dB}$
SAMPLE CALCULATION:
RESULTS (uV/m @ 3m) = Antilog $((-45.6+5.7+107) / 20)=2263.7$
CONVERSION FROM dBm TO dBuV = 107 dB

Tester Signature:


Name: Austin Thompson

FCC ID: HSW-2410G

Figure 4b-1
Peak Radiated Spurious Emission 15.247(c) Fundamental Mid - Parabolic Dish


FCC ID: HSW-2410G

Figure 4b-2
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish


FCC ID: HSW-2410G

Figure 4b-3
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish


FCC ID: HSW-2410G

Figure 4b-4
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish


FCC ID: HSW-2410G

Figure 4b-5
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish


Table 4c. PEAK RADIATED SPURIOUS EMISSIONS (High) Parabolic Dish Antenna

| Radiated Spurious Emissions |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test By: | Test: | Spurious Emissions-Parabotic AntennaHigh Channel |  |  |  | Client: | Cirronet |  |
| AT | Project: | 05-0311 |  | Class: | Peak | Model: | WIT 2410 G |  |
| Frequency Range |  | Table | Model |  | S/N | Valid | Calibrated: |  |
|  |  | 2hn3mh | Model : SAS-571 |  | S/N 605 | Yes | 01 APR 05 |  |
|  |  | preamp |  |  | S/N | Yes | June/30/2005 |  |
|  |  | flex2ft |  |  | S/N | Yes | 05/Dec/2005 |  |
|  |  | Flex17ft |  |  | S/N | Yes | 05/Dec/2005 |  |
| Frequency | Test Data | AF | Test Data | $\begin{gathered} \text { AF+CA } \\ \text {-AMP } \end{gathered}$ | Results | Limits | Margin | PK = n |
| (MHz) | (dBm) | Table | (dBuV) | (dB) | ( $\mathrm{uV} / \mathrm{m}$ ) | ( $\mathrm{uV} / \mathrm{m}$ ) | (dB) | / QP |
| 2469.66 | -8.8 | 2hn3mh | 98.2 | 31.7 | 3147618.4 |  |  | PK |
| 4940.1 | -45.1 | 2 hn 3 mh | 61.9 | 5.9 | 2468.3 | 5000.0 | 6.1 | PK |
| 7410.163 | -49.5 | 2 hn 3 mh | 57.5 | 11.0 | 2656.2 | 5000.0 | 5.5 | PK** |
| 9878.75 | -65.0 | 2hn3mh | 42.1 | 13.6 | 607.9 | 314761.8 | 54.3 | PK** |
| 12350.29 | -69.2 | 2 hn 3 mh | 37.8 | 19.6 | 742.8 | 5000.0 | 16.6 | PK** |

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental
** Conversion from 1 meter to 3 meters $=-9.54 \mathrm{~dB}$
SAMPLE CALCULATION:
RESULTS $(u V / m @ 3 m)=$ Antilog $((-45.1+5.9+107) / 20)=2468.3$
CONVERSION FROM dBm TO dBuV $=107 \mathrm{~dB}$

Tester
Signature:


Name: Austin Thompson

Figure 4c-1
Peak Radiated Spurious Emission 15.247(c) Fundamental High - Parabolic Dish


Figure 4c-2
Peak Radiated Spurious Emission 15.247(c) High - Parabolic Dish


Figure 4c-3
Peak Radiated Spurious Emission 15.247(c) High - Parabolic Dish


Figure 4c-4
Peak Radiated Spurious Emission 15.247(c) High - Parabolic Dish


FCC ID: HSW-2410G

Figure 4c-5
Peak Radiated Spurious Emission 15.247(c) High - Parabolic Dish


