

low

|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|------------------------------------------------------------------------|---------------------------|---------------------|------|------|-----|---------------------------|-----|--------|-----------------------------------|--------|---------|----------|---------|-----------------|--|
|                                                                        |                           | FCC Measurement     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
| <b>Compliance Certification Services</b> , Morgan Hill Open Field Site |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
| Customer: Tom                                                          |                           |                     |      |      |     | 11/22/02                  |     |        |                                   |        |         |          |         |                 |  |
| Antenna #3: Radiowave SC-5V-120-14 (14dBi )                            |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
| Tested from 26-40Ghz                                                   |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | Cable length        |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | 3.0                 |      | feet |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | Distance to Antenna |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | 0.3                 |      | feet |     |                           |     |        |                                   |        |         |          |         |                 |  |
| Average Measurements:                                                  |                           |                     |      |      |     | Peak Measurements:        |     |        |                                   |        |         |          |         |                 |  |
| 1 MHz Resolution Bandwidth                                             |                           |                     |      |      |     | 1MHz Resolution Bandwidth |     |        |                                   |        |         |          |         |                 |  |
| 10Hz Video Bandwidth                                                   |                           |                     |      |      |     | 1MHz Video Bandwidth      |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | Low Channel:        |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           | 5728.00             |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
| f                                                                      | Peak R.                   | Avg. R.             | AF   | CL   | Amp | D Corr                    | HPF | Peak   | Avg                               | Pk Lim | Avg Lim | Peak Mar | Avg Mar | Notes           |  |
| GHz                                                                    | dBuV                      | dBuV                | dB/m | dB   | dB  | dB                        | dB  | dBuV/m | dBuV/m                            | dBuV/m | dBuV/m  | dB       | dB      |                 |  |
| 26.000                                                                 | 50.0                      | 30.0                | 46.6 | 3.5  | 0.0 | -30.3                     | 0.0 | 69.8   | 49.8                              | 74.0   | 54.0    | -4.2     | -4.2    | V&H Noise Floor |  |
| 40.000                                                                 | 50.0                      | 30.0                | 46.6 | 3.6  | 0.0 | -30.3                     | 0.0 | 69.9   | 49.9                              | 74.0   | 54.0    | -4.1     | -4.1    | V&H Noise Floor |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
|                                                                        |                           |                     |      |      |     |                           |     |        |                                   |        |         |          |         |                 |  |
| f                                                                      | Measurement Frequency     |                     |      |      |     | HPF                       |     |        | High Pass filter                  |        |         |          |         |                 |  |
| Peak R.                                                                | Analyzer Peak Reading     |                     |      |      |     | Peak                      |     |        | Calculated peak field Strength    |        |         |          |         |                 |  |
| Avg. R.                                                                | Analyzer Avg. Reading     |                     |      |      |     | Avg                       |     |        | Calculated average field Strength |        |         |          |         |                 |  |
| AF                                                                     | Antenna Factor            |                     |      |      |     | Pk Lim                    |     |        | Peak Field Strength Limit         |        |         |          |         |                 |  |
| CL                                                                     | Cable Loss                |                     |      |      |     | Avg Lim                   |     |        | Average Field Strength Limit      |        |         |          |         |                 |  |
| Amp                                                                    | Pre amp gain              |                     |      |      |     | Pk Mar                    |     |        | Margin vs. Peak Limit             |        |         |          |         |                 |  |
| D Corr                                                                 | Discorrections to 3 meter |                     |      |      |     | Avg Mar                   |     |        | Margin vs. Average Limit          |        |         |          |         |                 |  |