

File #: 0363-EX-ST-2023

Reference Number: 76777

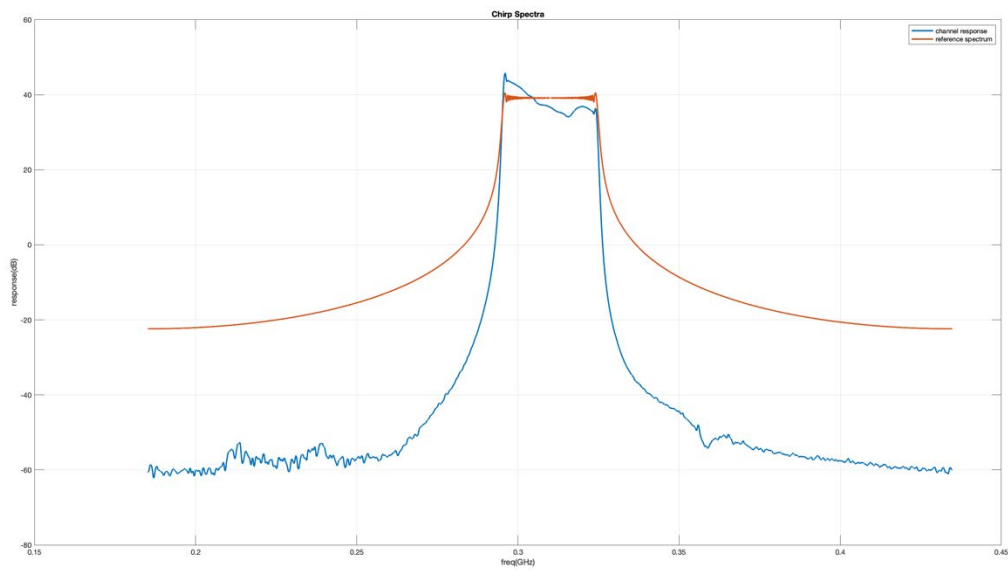
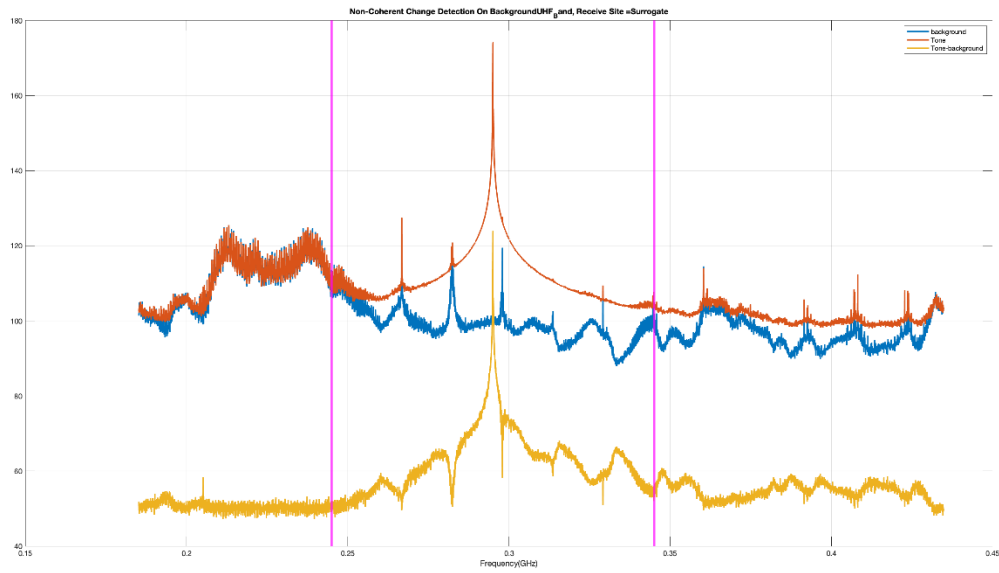
Subject: Response to request for system parameters at -3dB, -20dB, and -60dB transmit emission points.

Purpose: This experiment is designed to highlight propagation effects at low angles in regions covered largely by water. Each emission is short in duration (< 30sec). Emissions are broken into 2 parts, a single tone at 20% and 80% of the frequency band of interest and a sweep covering 20%-80% of the band of interest. We have four (4) bands of interest, UHF, L, S, and X.

Message:

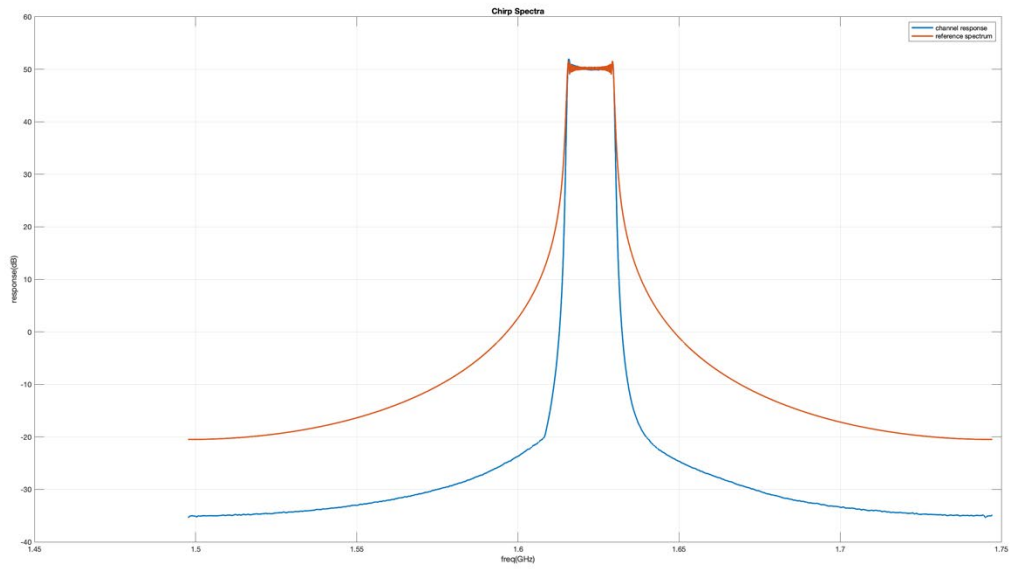
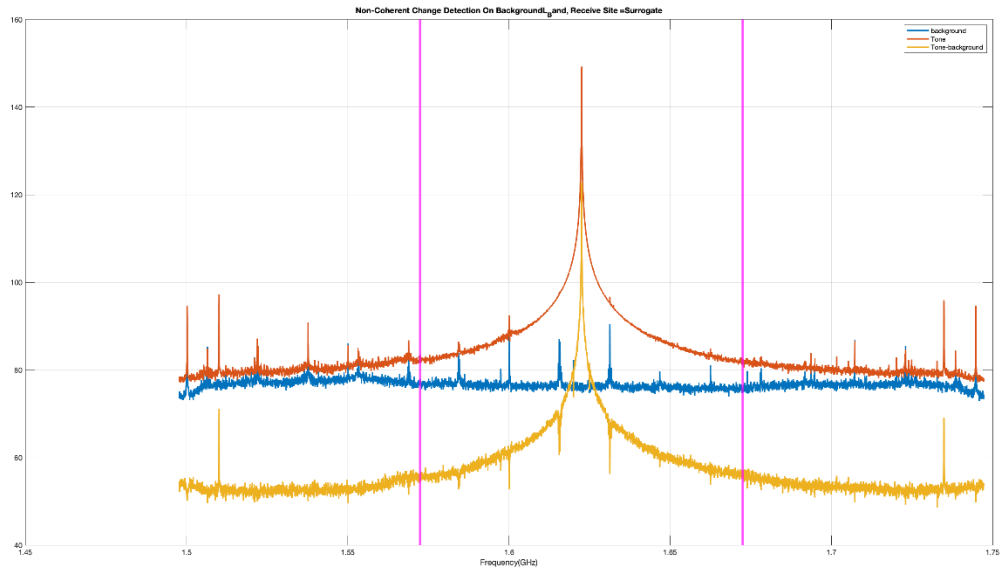
295MHz – 325MHz emissions

| EMISSION         | -3DB          | -20DB         | -60DB         |
|------------------|---------------|---------------|---------------|
| 295MHZ TONE      | 294 / 296 MHz | 294 / 296 MHz | 280 / 310 MHz |
| 310MHZ TONE      | 309 / 311 MHz | 309 / 311 MHz | 295 / 325 MHz |
| 325MHZ TONE      | 324 / 326 MHz | 324 / 326 MHz | 310 / 340 MHz |
| 295-325MHZ SWEEP | 294 / 326 MHz | 293 / 327 MHz | 280 / 340 MHz |



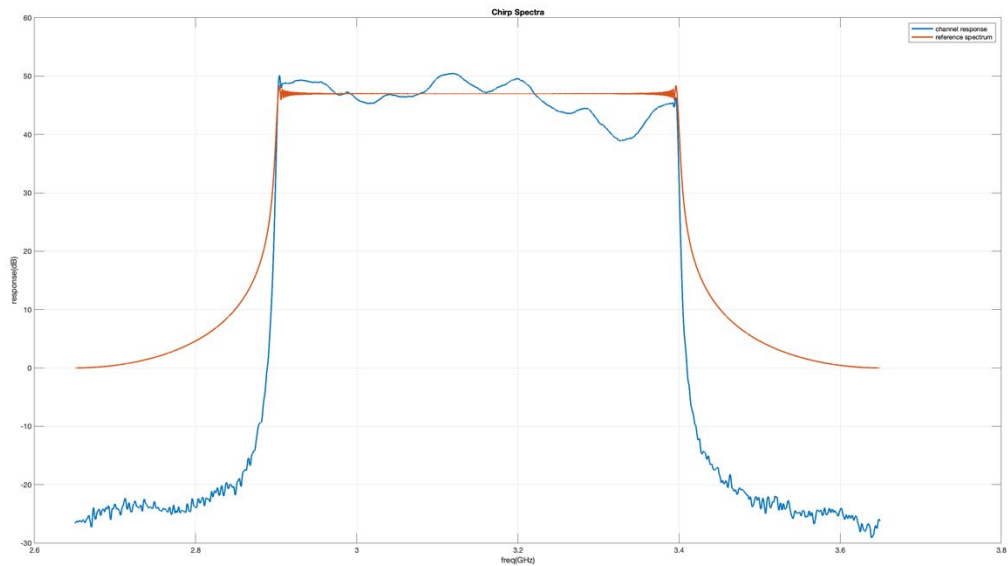
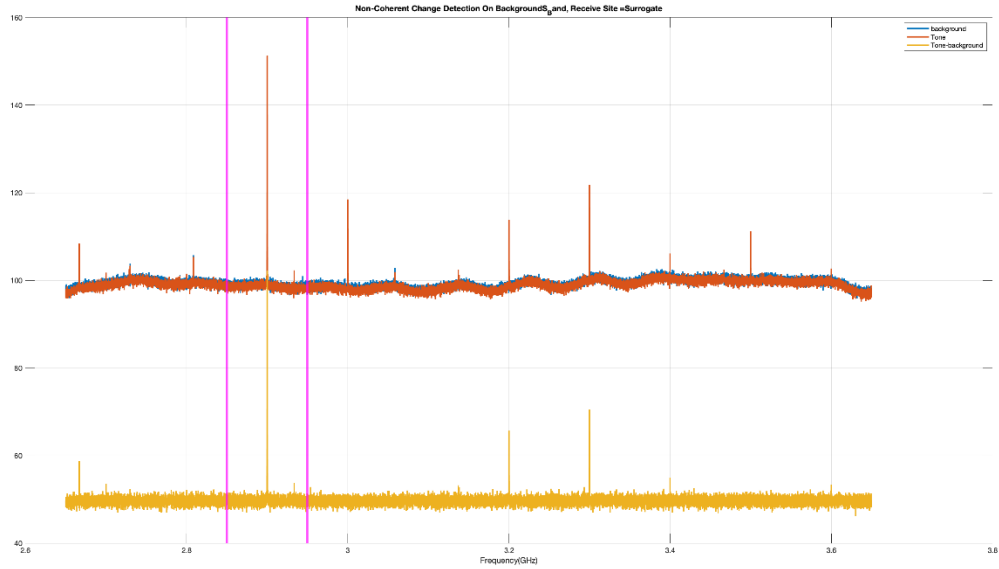
# 1615MHz – 1630MHz emissions

| EMISSION                  | -3DB            | -20DB           | -60DB           |
|---------------------------|-----------------|-----------------|-----------------|
| <b>1615MHZ TONE</b>       | 1614 / 1616 MHz | 1614 / 1616 MHz | 1600 / 1630 MHz |
| <b>1622.5MHZ TONE</b>     | 1622 / 1623 MHz | 1622 / 1623 MHz | 1607 / 1637 MHz |
| <b>1630MHZ TONE</b>       | 1629 / 1631 MHz | 1629 / 1631 MHz | 1615 / 1645 MHz |
| <b>1615-1630MHZ SWEEP</b> | 1614 / 1631 MHz | 1614 / 1631 MHz | 1610 / 1645 MHz |



## 2900MHz – 3400MHz emissions

| EMISSION                | -3DB            | -20DB           | -60DB           |
|-------------------------|-----------------|-----------------|-----------------|
| 2900MHZ TONE            | 2898 / 2902 MHz | 2898 / 2902 MHz | 2890 / 2910 MHz |
| 3150MHZ TONE            | 3148 / 3152 MHz | 3148 / 3152 MHz | 3140 / 3160 MHz |
| 3400MHZ TONE            | 3398 / 3402 MHz | 3398 / 3402 MHz | 3390 / 3410 MHz |
| 2900MHZ – 3400MHZ SWEEP | 2898 / 3402 MHz | 2898 / 3402 MHz | 2890 / 3410 MHz |



8GHz – 12GHz emissions

| EMISSION              | -3DB            | -20DB           | -60DB         |
|-----------------------|-----------------|-----------------|---------------|
| 8.2GHZ TONE           | 8.19 / 8.21 GHz | 8.19 / 8.21 GHz | 8.1 / 8.2 GHz |
| 9.0GHZ TONE           | 8.99 / 9.01 GHz | 8.99 / 9.01 GHz | 8.9 / 9.1 GHz |
| 9.8GHZ TONE           | 9.79 / 9.81 GHz | 9.79 / 9.81 GHz | 9.7 / 9.9 GHz |
| 8.2GHZ – 9.8GHZ SWEEP | 8.19 / 9.81 GHz | 8.19 / 8.21 GHz | 8.1 / 9.9 GHz |

