

April 19, 2018

I certify that the following FM translators have been checked for spurious emissions and modulation and that they comply with the requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d).

Kailua-Kona HI K206EJ 89.1 MHz. & Kalaoa HI K217GG 91.3 MHz.

Measurements were taken using a calibrated RF spectrum analyzer connected to the transmission line through an in-line watt meter -50dB sample port. An 88-108 Band reject filter was used to check frequencies outside of FM BROADCAST band.

Signed:

Jeremy Estabrooks
Field Engineer
Calvary Chapel of Twin Falls, Inc.

Intermod Calculation Sheet

| | Fundamental | | First Harmonic | Second Harmonic | |
|--------------|-------------|------|----------------|-----------------|-------|
| Frequency A: | 89.1 | -6.6 | 89.1 | 178.2 | 267.3 |
| Frequency B: | 91.3 | -6.4 | 91.3 | 182.6 | 273.9 |

Note: Frequency B should be the greater of the two.

| | | | | |
|-----------------------|-------|-------|-------|---|
| Second Order Products | 2.2 | N | 1.2 | N |
| | 180.4 | N | 87.9 | N |
| | 178.2 | N | 91.5 | N |
| | 182.6 | N | 178.2 | N |
| Third Order Products | 93.5 | -72.1 | 179.4 | N |
| | 86.9 | N | 180.6 | N |
| | 271.7 | N | 267.3 | N |
| | 269.5 | N | 268.5 | N |
| | 267.3 | N | 269.7 | N |
| | 273.9 | N | 270.9 | N |

Noise floor: -80

USB-SA44B Spectrum Analyzer -50dB port on Bird watt meter at combiner output

88-108 Band reject filter used to check frequencies outside of FM BROADCAST band