

TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 21 Dec 2013 01:58:29 Local

Analysis complete: 21 Dec 2013 02:06:29 Local

Data Conversion Analysis Report

Observation start time: 20 Dec 2013 22:15:00 UTC

Duration of observation: 8.232 real-time seconds

Data directory: R:\Observation Records\AJ4CO Observatory\TWB\Gage\20131220 Step Cal\Combined

Number of digitized input files: 21

First input filename: AS_CH01-1-00dB.sig

Last input filename: AS_CH01-1-60dB.sig

Digitized burst file size: 2096961 samples per file

Digitized burst file sample rate: 10 MHz

Digitized burst file duration: 209.696 ms

Digitized burst cycle time: 392 ms

Dead time between data bursts: 182.304 ms

Digitization coverage: 53.4939 percent

FFT bins: 2048

FFT sweep time: 204.8 μ s

FFT sweeps per digitized data burst: 1023

Dead FFT sweeps between each digitized data burst: 889

FFT sweeps per digitized data burst including dead time padding: 1912

Total FFT sweeps for 21 input files, including padding: 40152

FFT BW: 5 MHz

FFT RBW: 4.88281 kHz

FFT Windowing: None (uniform window)

FFT display low frequency: 2.8 MHz (FFT bin \pm 574)

FFT display high frequency: 4.8 MHz (FFT bin \pm 984)

Total FFT bins exported to SPS file: 411

DC offset per FFT element zero: 13.0218 μ W (last FFT sweep of last data file)

DC offset applied to FFT before calculating dBm: 100 μ W

DC offset applied to FFT after calculating dBm: 11 dBm

SPS file detector sensitivity: 50 ADC counts per dB

DC offset applied to SPS data before export to SPS file: 1000 ADC counts

SPS output file name: AJ4CO-TWB-20131220221500.sps

SPS data file sweep rate: 4882.81 sweeps (FFT spectra) per second

SPS file start time: 20 Dec 2013 22:15:00.000 UTC

SPS file end time: 20 Dec 2013 22:15:08.223 UTC