TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 21 Jan 2015 05:31:39 Local

Analysis complete: 21 Jan 2015 06:50:13 Local

Data Conversion Analysis Report

Observation start time: 19 Jan 2015 05:59:39 UTC

Duration of observation: 59.976 real−time seconds

Data directory: V:\Observation Records\2015 01 19 Io−A−C\2015−01−19_07_CH01\Folder.00001

Number of digitized input files: 153

First input filename: AS_CH01−001.sig

Last input filename: AS_CH01−153.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 μs

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 153 input files, including padding: 292536

FFT BW: 5 MHz

FFT RBW: 4.88281 kHz

FFT Windowing: None (uniform window)

FFT display low frequency: 2.8 MHz (FFT bin ♯ 574)

FFT display high frequency: 4.8 MHz (FFT bin ♯ 984)

Total FFT bins exported to SPS file: 411

DC offset per FFT element zero: 17.0168 μW (last FFT sweep of last data file)

DC offset applied to FFT before calculating dBm: 100 μW

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: V:\Observation Records\2015 01 19 Io−A−C\AJ4CO TWB 2015 01 19 − 007 − 05 59 39 .sps

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

SPS file start time: 19 Jan 2015 05:59:39.000 UTC

SPS file end time: 19 Jan 2015 06:00:38.911 UTC