# TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 26 Feb 2016 06:01:53 Local
Analysis complete: 26 Feb 2016 06:41:44 Local

**Data Conversion Analysis Report**

Observation start time: 24 Feb 2016 05:54:41 UTC
Duration of observation: 59.976 real−time seconds

Data directory: D:\RA\2016 02 24 Io−B−D\2016−02−24_30_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 $\mu$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 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: 3.21345 $\mu$W (last FFT sweep of last data file)
DC offset applied to FFT before calculating dBm: 100 $\mu$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: D:\RA\2016 02 24 Io−B−D\AJ4CO TWB 2016 02 24 − 030 − 05 54 41 .sps
SPS data file sweep rate: 4882.81 sweeps (FFT spectra) per second
SPS file start time: 24 Feb 2016 05:54:41.000 UTC
SPS file end time: 24 Feb 2016 05:55:40.911 UTC