

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 57694 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 18 2012

Contents

| | | |
|----------|-------------------------------|----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

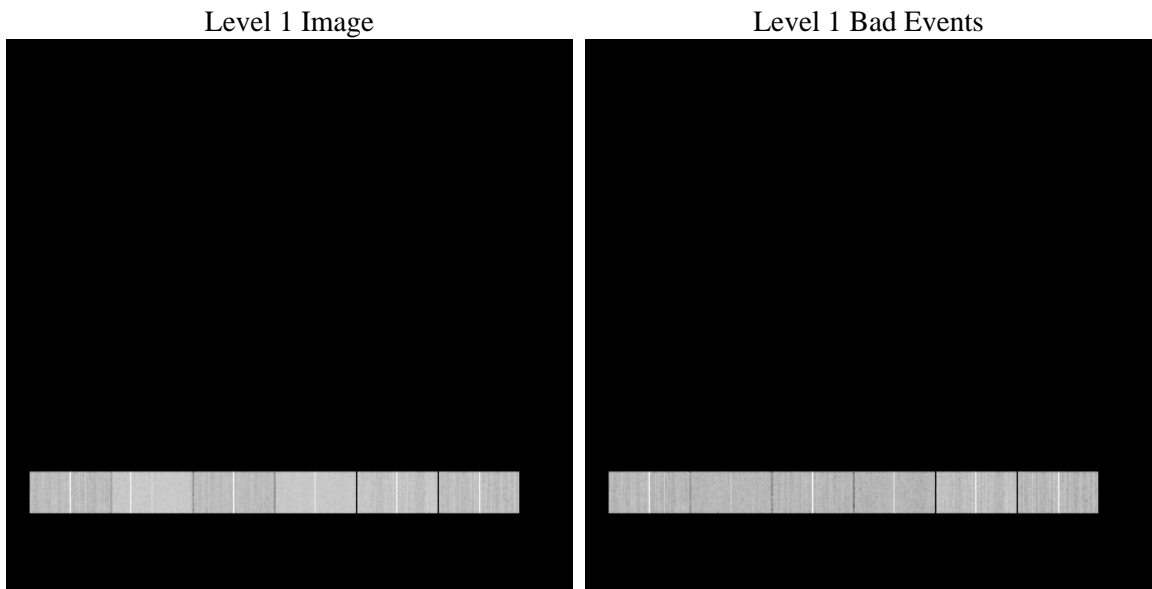
1 Front

| | | |
|----------|---|---------------------------------------|
| seq_num | | Sequence number |
| obs_id | 57694 | Observation id |
| title | ACIS-456789 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| ra_targ | 0.0 | Observer's specified target RA [deg] |
| dec_targ | 0.0 | Observer's specified target Dec [deg] |
| ra_nom | 49.977138130943 | Nominal RA [deg] |
| dec_nom | 48.025413660497 | Nominal Dec [deg] |
| roll_nom | 84.356547349205 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5962.5 | Sum of GTIs [s] |
| livetime | 5939.208984375 | Livetime [s] |
| ontime4 | 3355.6529381871 | Sum of GTIs [s] |
| ontime5 | 5962.5 | Sum of GTIs [s] |
| ontime6 | 3622.6817823052 | Sum of GTIs [s] |
| ontime7 | 5962.5 | Sum of GTIs [s] |
| ontime8 | 3749.629511714 | Sum of GTIs [s] |
| ontime9 | 3685.4258993268 | Sum of GTIs [s] |
| l2events | 270599 | Number of level 2 events |

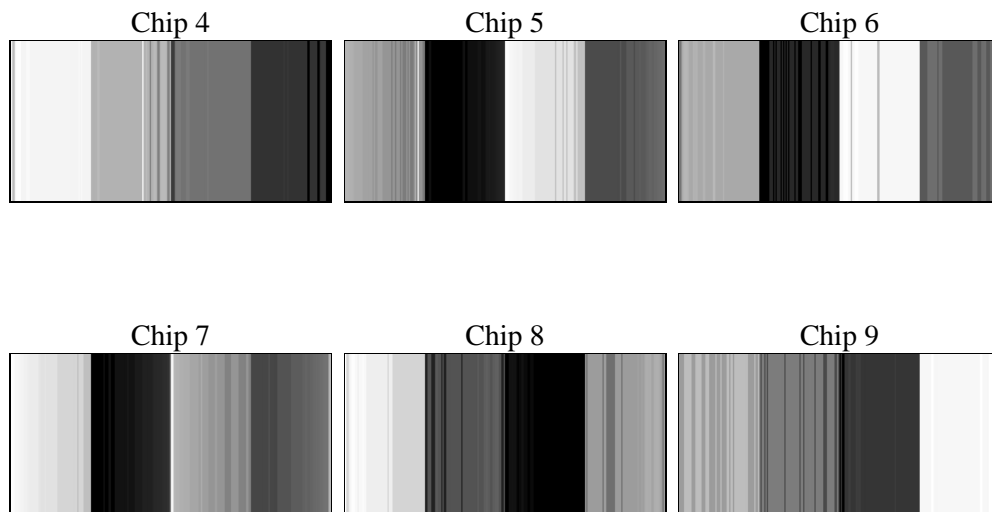
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 5962.5 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 3355.6529381871 | Sum of GTIs [s] |
| date | 2012-05-18T04:06:47 | Date and time of file creation | ontime5 | 5962.5 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 3622.6817823052 | Sum of GTIs [s] |
| | | | ontime7 | 5962.5 | Sum of GTIs [s] |
| | | | ontime8 | 3749.629511714 | Sum of GTIs [s] |
| | | | ontime9 | 3685.4258993268 | Sum of GTIs [s] |
| | | | l1events | 1031189 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|-------|--------|-------|--------|--------|
| level 1 events | 143899 | 211475 | 144707 | 198021 | 181985 | 151102 | grade 0 events | 4203 | 15943 | 3634 | 14229 | 7629 | 4414 |
| rejected events | 122966 | 105854 | 119917 | 103073 | 149956 | 125360 | | 2% | 7% | 2% | 7% | 4% | 2% |
| rejected % | 85% | 50% | 82% | 52% | 82% | 82% | grade 1 events | 60 | 103 | 57 | 113 | 79 | 62 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22605 | 43318 | 25460 | 28410 | 27522 | 24764 |
| | | | | | | | | 15% | 20% | 17% | 14% | 15% | 16% |
| | | | | | | | grade 3 events | 1119 | 2282 | 1085 | 6366 | 1958 | 1132 |
| | | | | | | | | 0% | 1% | 0% | 3% | 1% | 0% |
| | | | | | | | grade 4 events | 1102 | 2331 | 1046 | 6321 | 1989 | 1150 |
| | | | | | | | | 0% | 1% | 0% | 3% | 1% | 0% |
| | | | | | | | grade 5 events | 1783 | 6833 | 1877 | 7865 | 2610 | 1989 |
| | | | | | | | | 1% | 3% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 6 events | 7089 | 41842 | 9102 | 39697 | 11153 | 8722 |
| | | | | | | | | 4% | 19% | 6% | 20% | 6% | 5% |
| | | | | | | | grade 7 events | 105938 | 98823 | 102446 | 95020 | 129045 | 108869 |
| | | | | | | | | 73% | 46% | 70% | 47% | 70% | 72% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | CC33_FAINT | CC33_FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 49.97713813094322 |
| [deg] Pointing Dec | 0 | 48.0254136604971 |
| [deg] Pointing Roll | 0.0 | 84.35654734920455 |
| [mm] SIM focus pos | -1.429586 | -0.7809083437167272 |
| [mm] SIM defocus | 0.1037507710433287 | 0.7524282956875696 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 332180301.525768 | 332180300.50076 |
| Observation start date | 2008-07-11T16:18:22 | 2008-07-11T16:18:20 |
| [s] Observation end time (MET) | 332206242.22704 | 332206241.20203 |
| Observation end date | 2008-07-11T23:30:42 | 2008-07-11T23:30:41 |
| Read mode | CONTINUOUS | CONTINUOUS |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 0 | 0 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.05.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.9625 |

A.2 Comments