

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 6910 - L2 Version 4
Chandra X-Ray Center

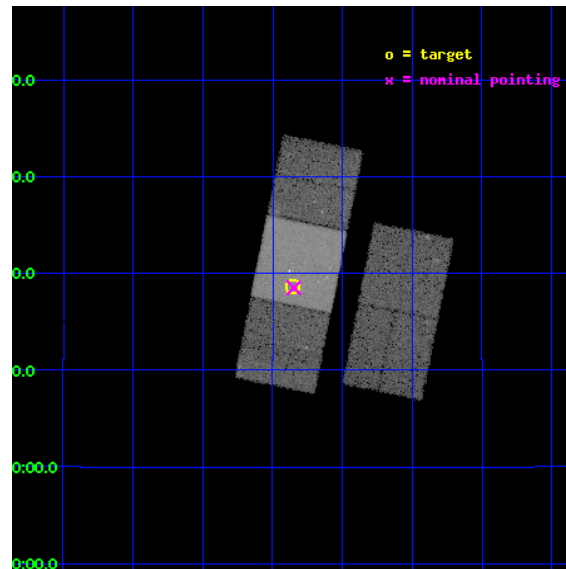
L2 Processing Date : Apr 24 2013

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1 Front

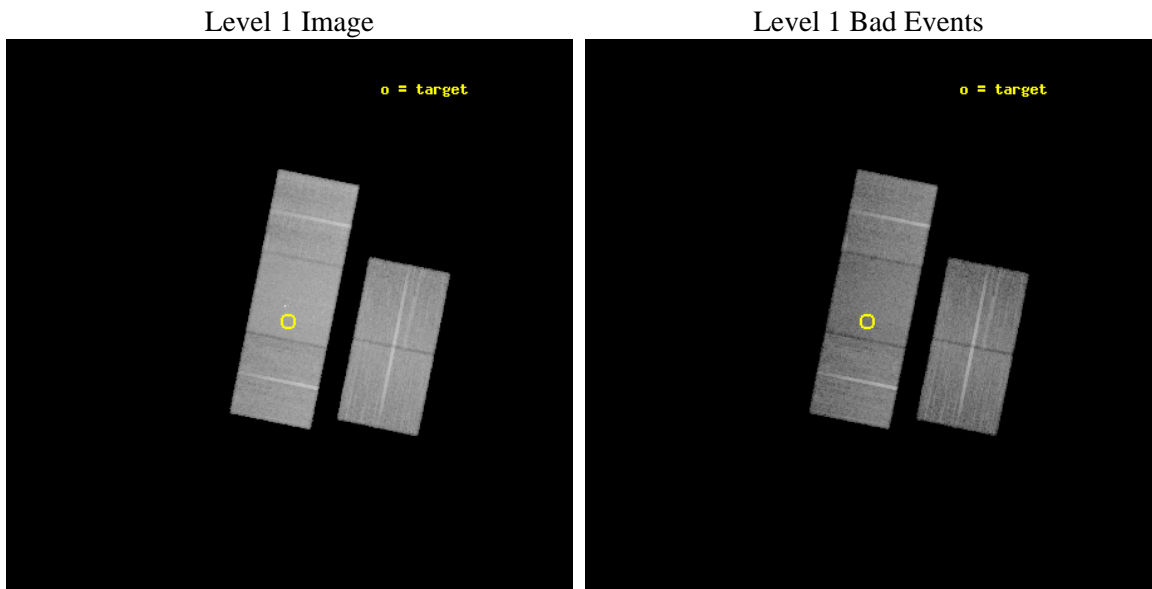
seq_num	701325	Sequence number
obs_id	6910	Observation id
title	A Chandra Study of Optical Hot-Spots in Two Nearby FR II Radio Galaxies	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	3C 33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	17.213333	Observer's specified target RA [deg]
dec_targ	13.310119	Observer's specified target Dec [deg]
ra_nom	17.211892554018	Nominal RA [deg]
dec_nom	13.308543352396	Nominal Dec [deg]
roll_nom	281.45694875904	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20174.799961179	Sum of GTIs [s]
livetime	19911.201347215	Livetime [s]
ontime2	20171.658970922	Sum of GTIs [s]
ontime3	20174.799961179	Sum of GTIs [s]
ontime6	20174.799961179	Sum of GTIs [s]
ontime7	20174.799961179	Sum of GTIs [s]
ontime8	20171.658980936	Sum of GTIs [s]
l2events	161155	Number of level 2 events



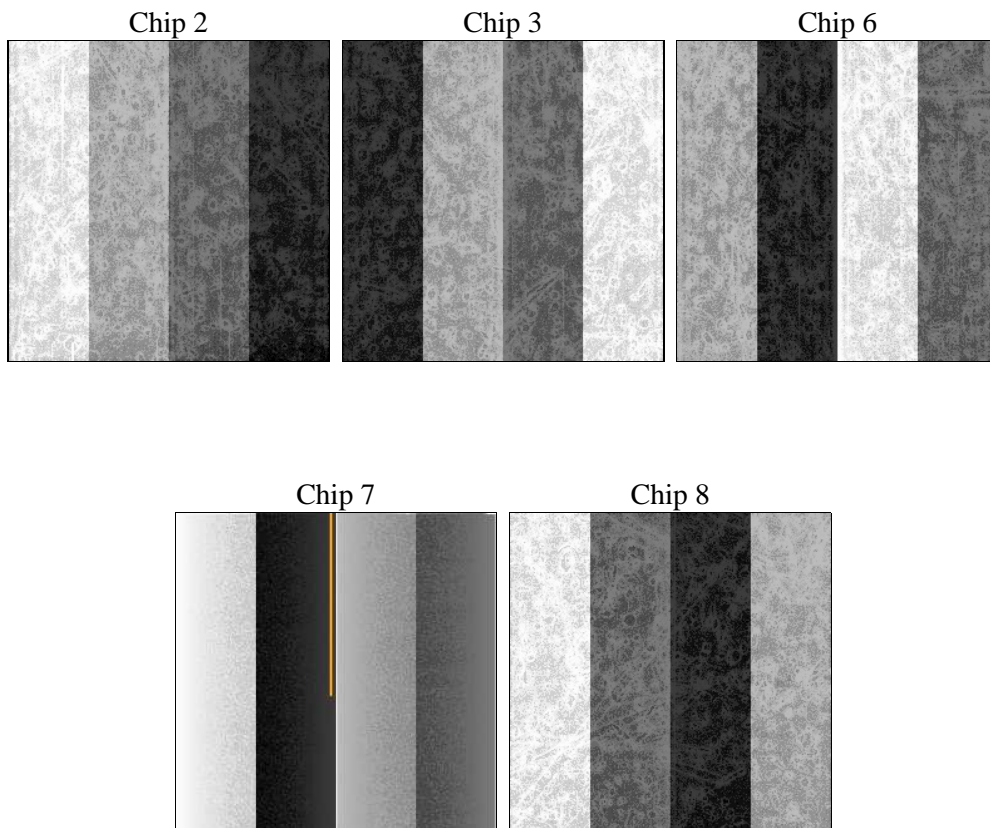
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	20174.799961179	Sum of GTIs [s]
caldsver	4.5.6	 	ontime2	20171.658970922	Sum of GTIs [s]
date	2013-04-24T14:01:16	Date and time of file creation	ontime3	20174.799961179	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	20174.799961179	Sum of GTIs [s]
			ontime7	20174.799961179	Sum of GTIs [s]
			ontime8	20171.658980936	Sum of GTIs [s]
			l1events	964681	Number of level 1 events

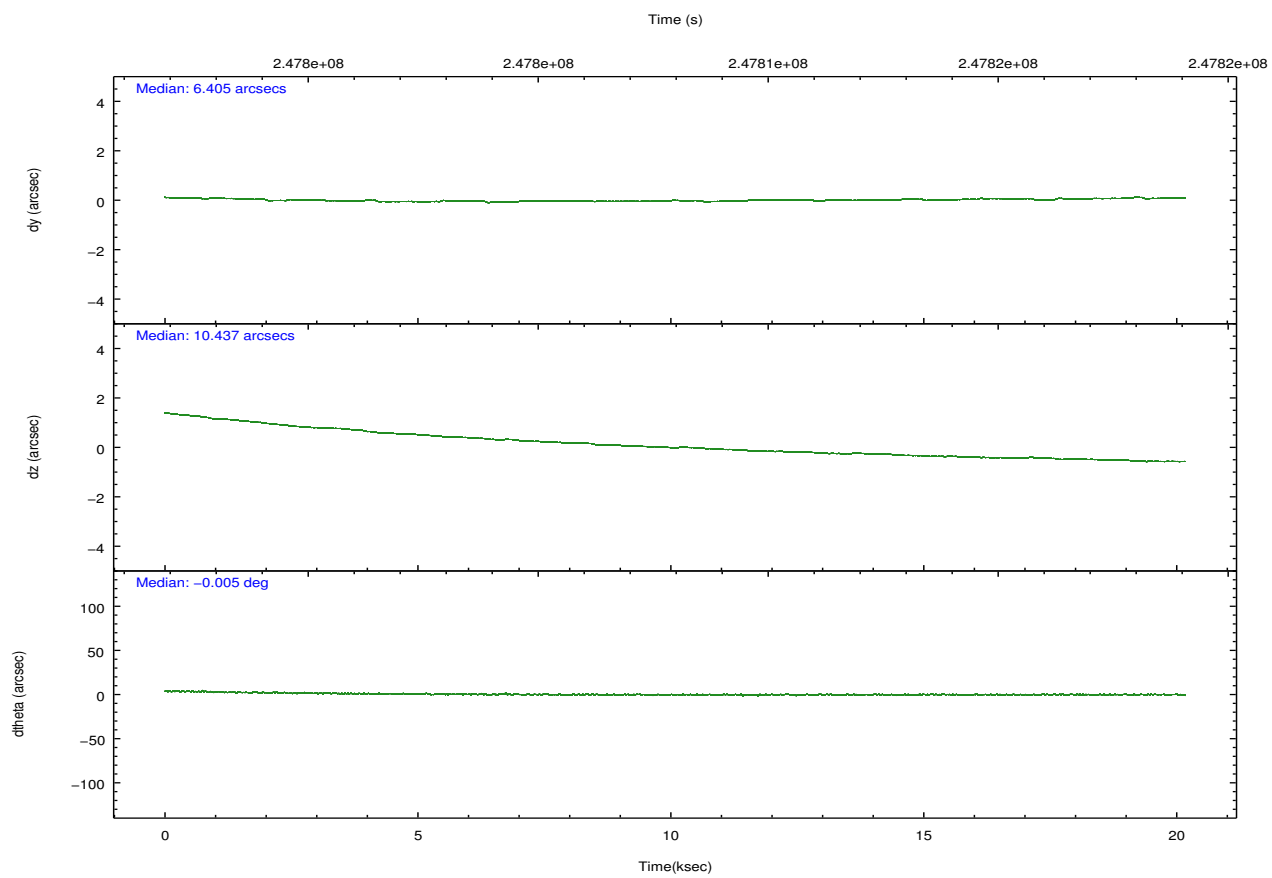
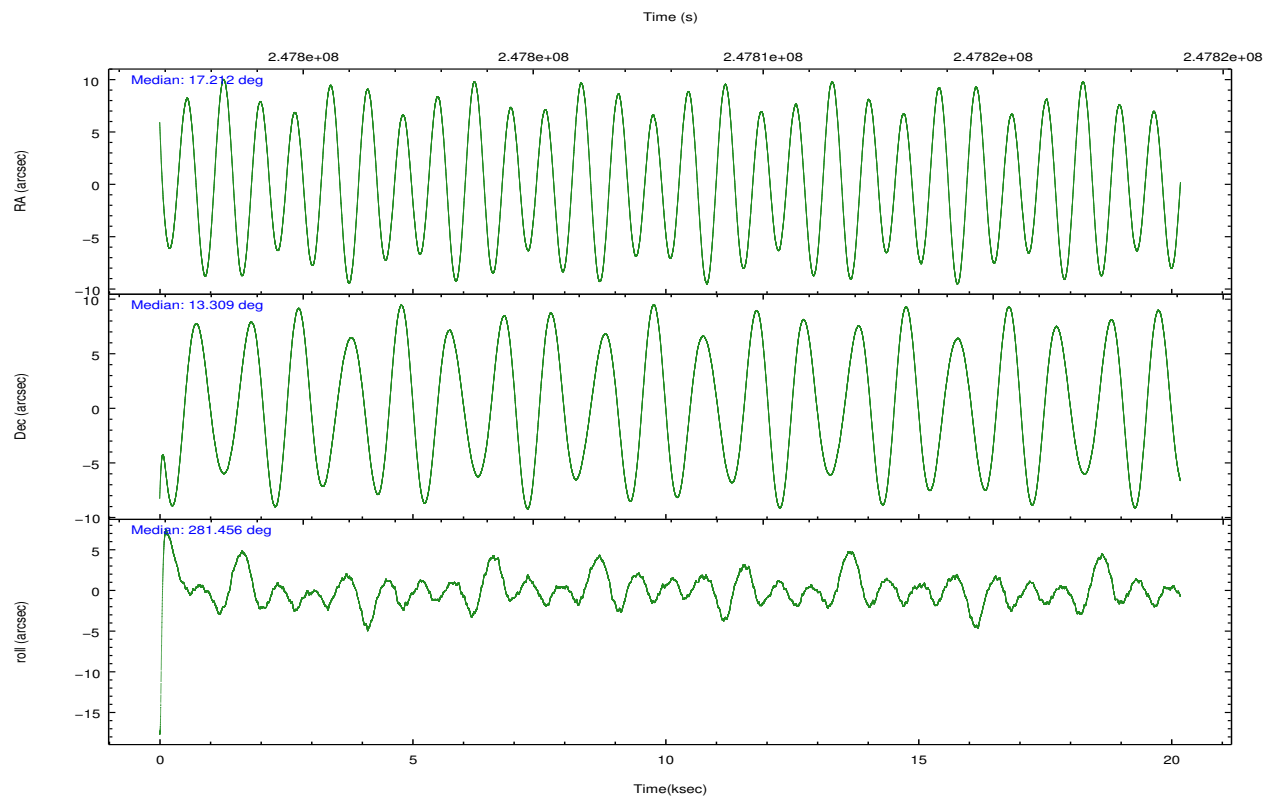
2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	168923	166003	176649	234633	218473	grade 0 events	8826	8454	9653	9228	14809
rejected events	150365	147408	155251	142354	174231		5%	5%	5%	3%	6%
rejected %	89%	88%	87%	60%	79%	grade 1 events	91	101	111	216	125
							0%	0%	0%	0%	0%
						grade 2 events	3912	3883	4670	19574	10567
							2%	2%	2%	8%	4%
						grade 3 events	1852	1947	2084	8500	4755
							1%	1%	1%	3%	2%
						grade 4 events	1845	1920	1971	8393	4440
							1%	1%	1%	3%	2%
						grade 5 events	6289	7610	8138	22351	10534
							3%	4%	4%	9%	4%
						grade 6 events	3154	3475	4146	51457	11973
							1%	2%	2%	21%	5%
						grade 7 events	142954	138613	145876	114914	161270
							84%	83%	82%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	17.193096	17.21189255401834	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.328733	13.30854335239609	Alternating exposures requested	N	N
[deg] Pointing Roll	281.304669	281.4569487590369	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	247798061.184000	247796508.31281			
Observation start date	2005-11-08T00:46:37	2005-11-08T00:21:48			
[s] Observation end time (MET)	247818061.184000	247819231.02636			
Observation end date	2005-11-08T06:19:57	2005-11-08T06:40:31			
Read mode	TIMED	TIMED			

2.3 Aspect

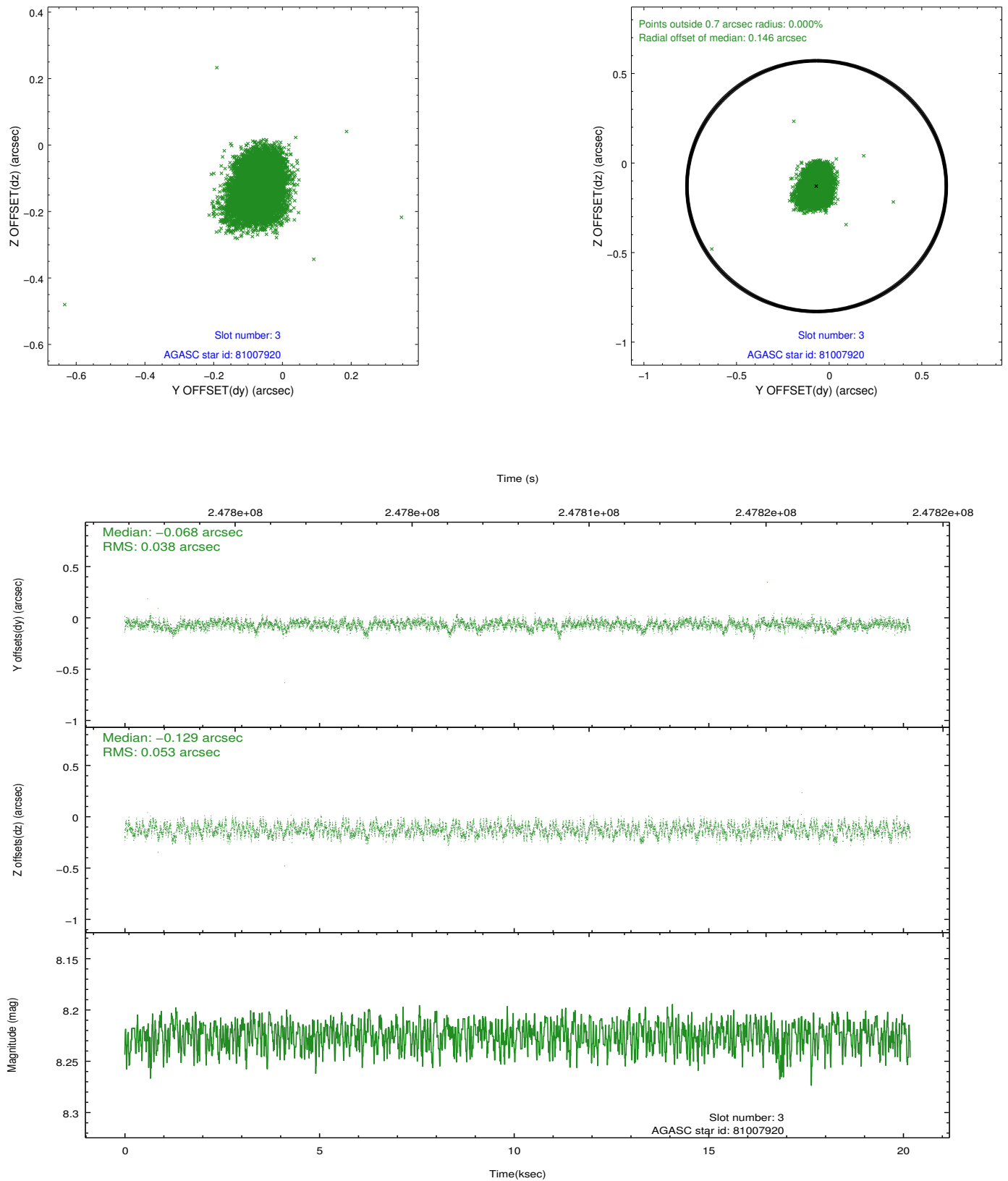


Slot Statistics

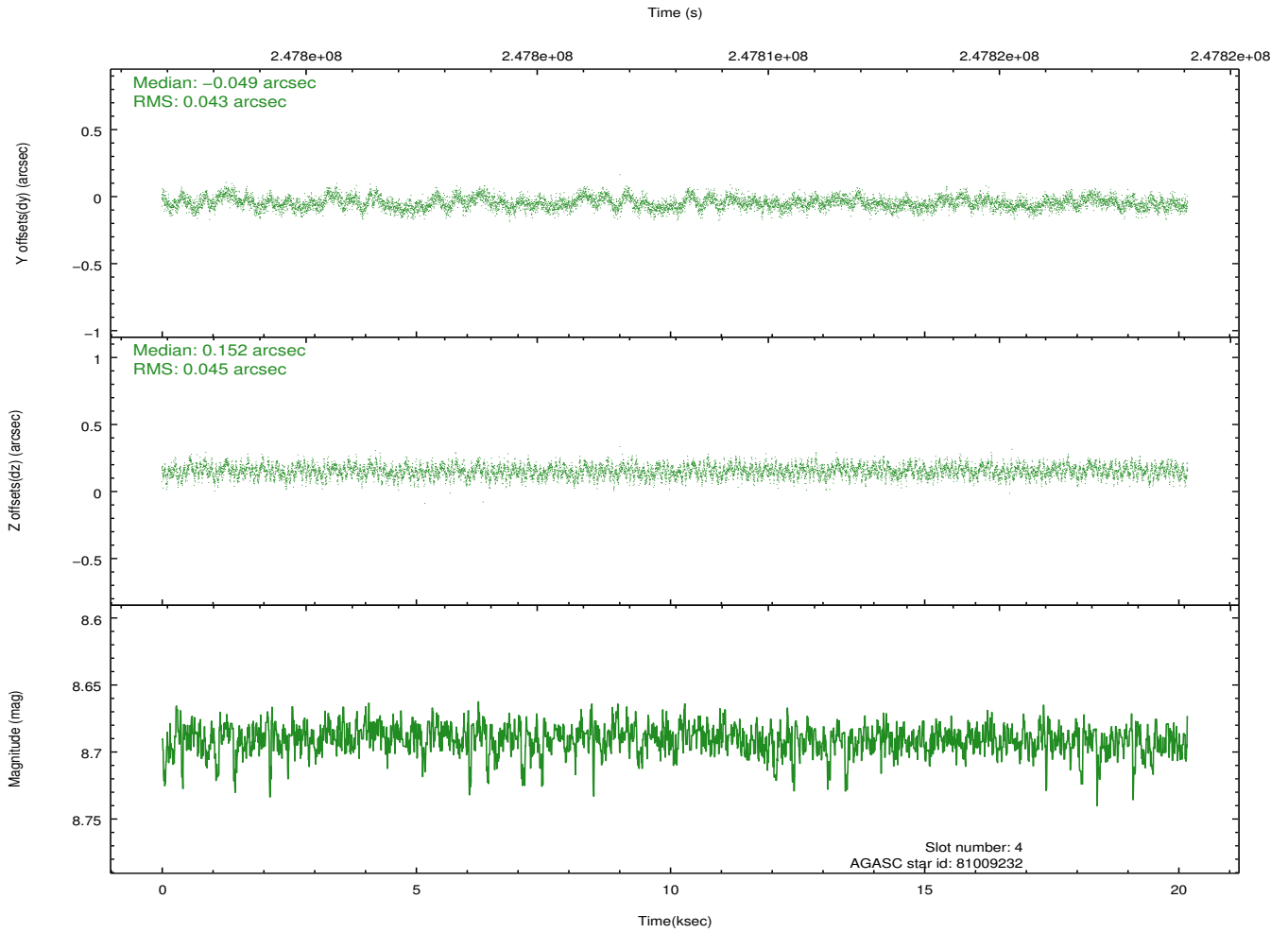
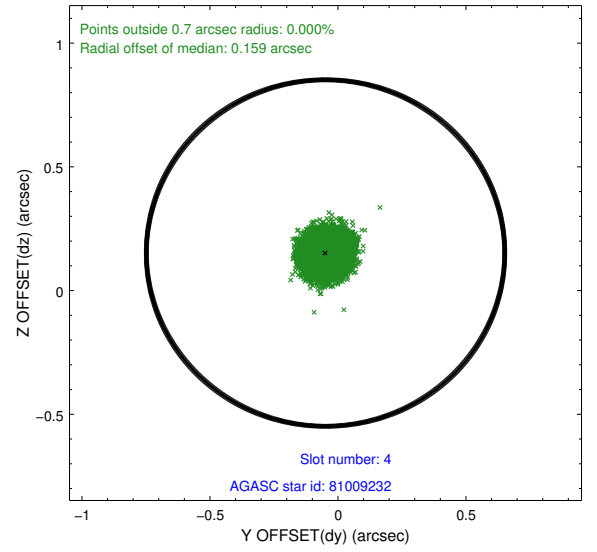
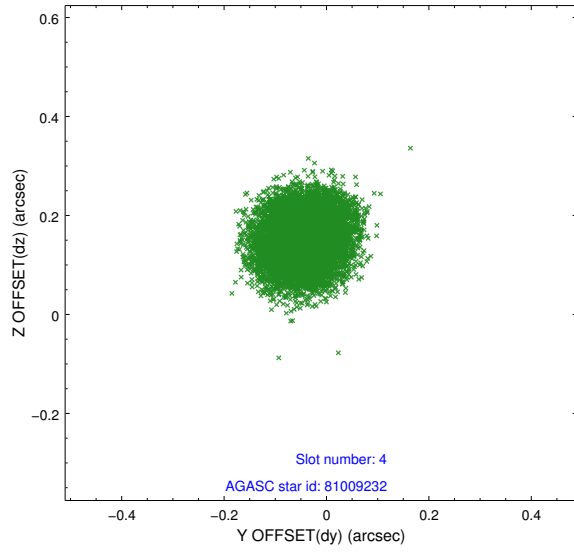
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4922	-0.065	-0.023	0.010	0.019	0.000000	0.000000	-759.17	-1731.86
1	FID	ACIS-S-4	7.21	4921	0.096	0.037	0.009	0.019	0.000000	0.000000	2154.14	176.55
2	FID	ACIS-S-5	7.24	4921	-0.063	-0.005	0.008	0.015	0.000000	0.000000	-1811.81	170.31
3	GUIDE	81007920	8.22	9844	-0.068	-0.129	0.070	0.111	16.552631	13.252748	-173.93	-2252.69
4	GUIDE	81009232	8.69	9840	-0.049	0.152	0.067	0.107	17.046481	13.691825	-1382.16	-246.41
5	GUIDE	81011112	8.74	9840	0.079	0.081	0.069	0.112	17.296463	12.693067	2315.26	-92.09
6	GUIDE	81012328	9.63	9802	0.226	0.031	0.103	0.165	17.237006	12.753828	2060.62	-254.31
7	GUIDE	81005408	7.42	9844	-0.186	-0.132	0.061	0.093	16.652176	13.884607	-2334.29	-1460.79

2.4 Star Slots

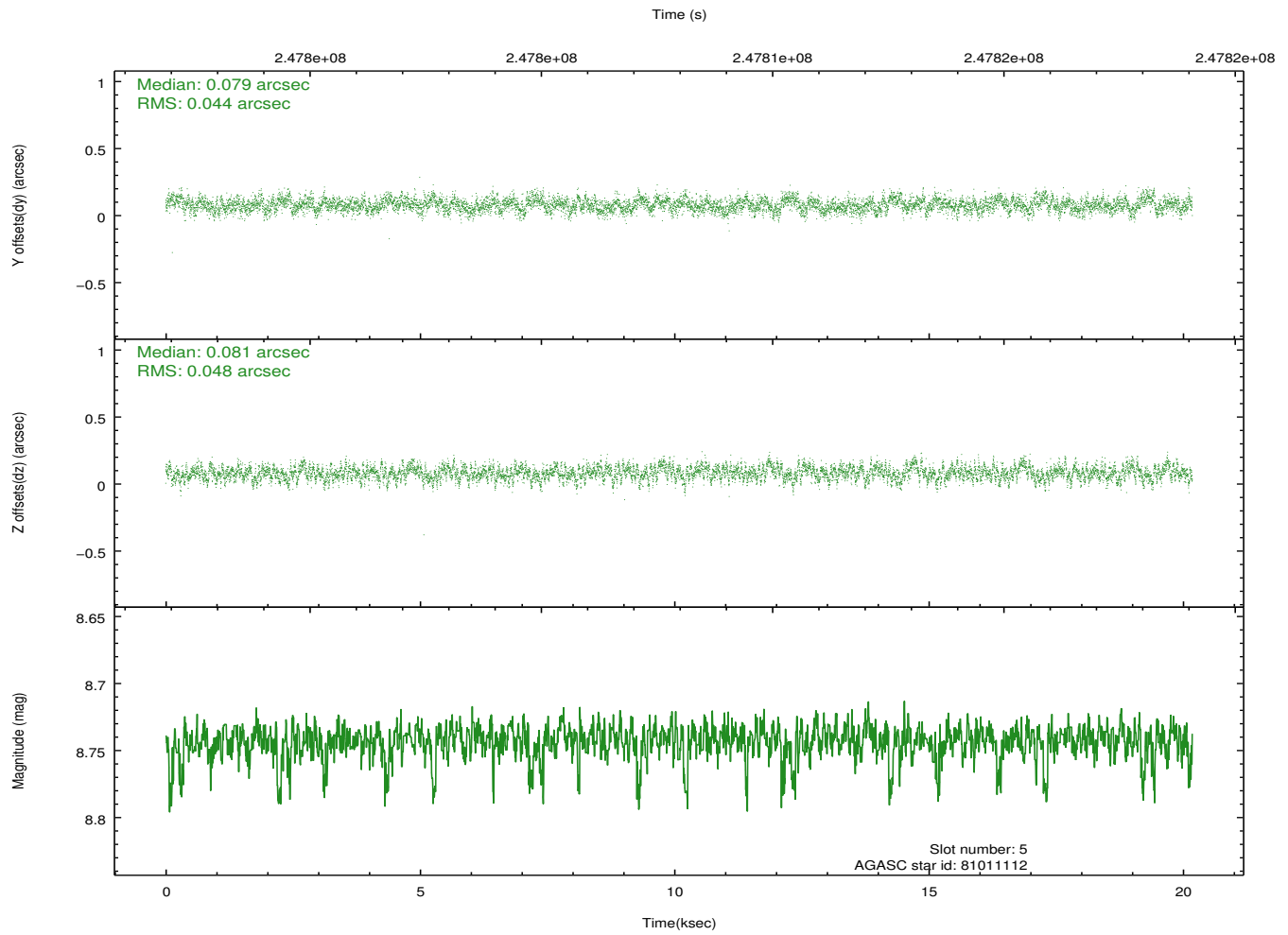
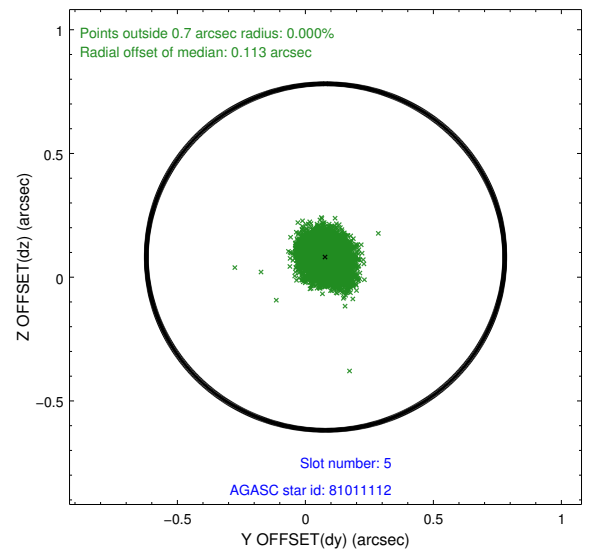
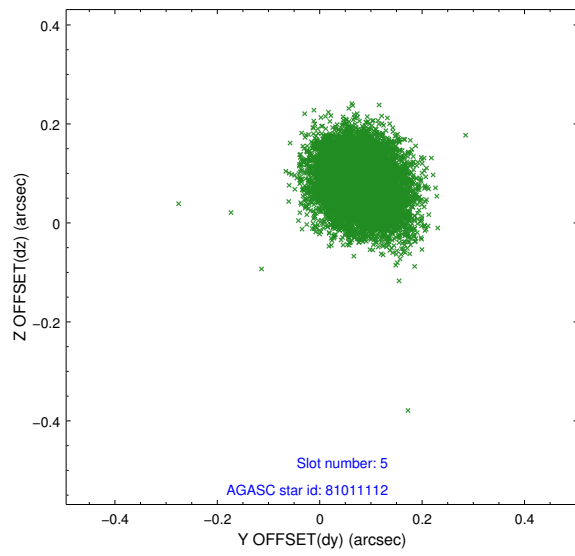
2.4.1 Slot 3



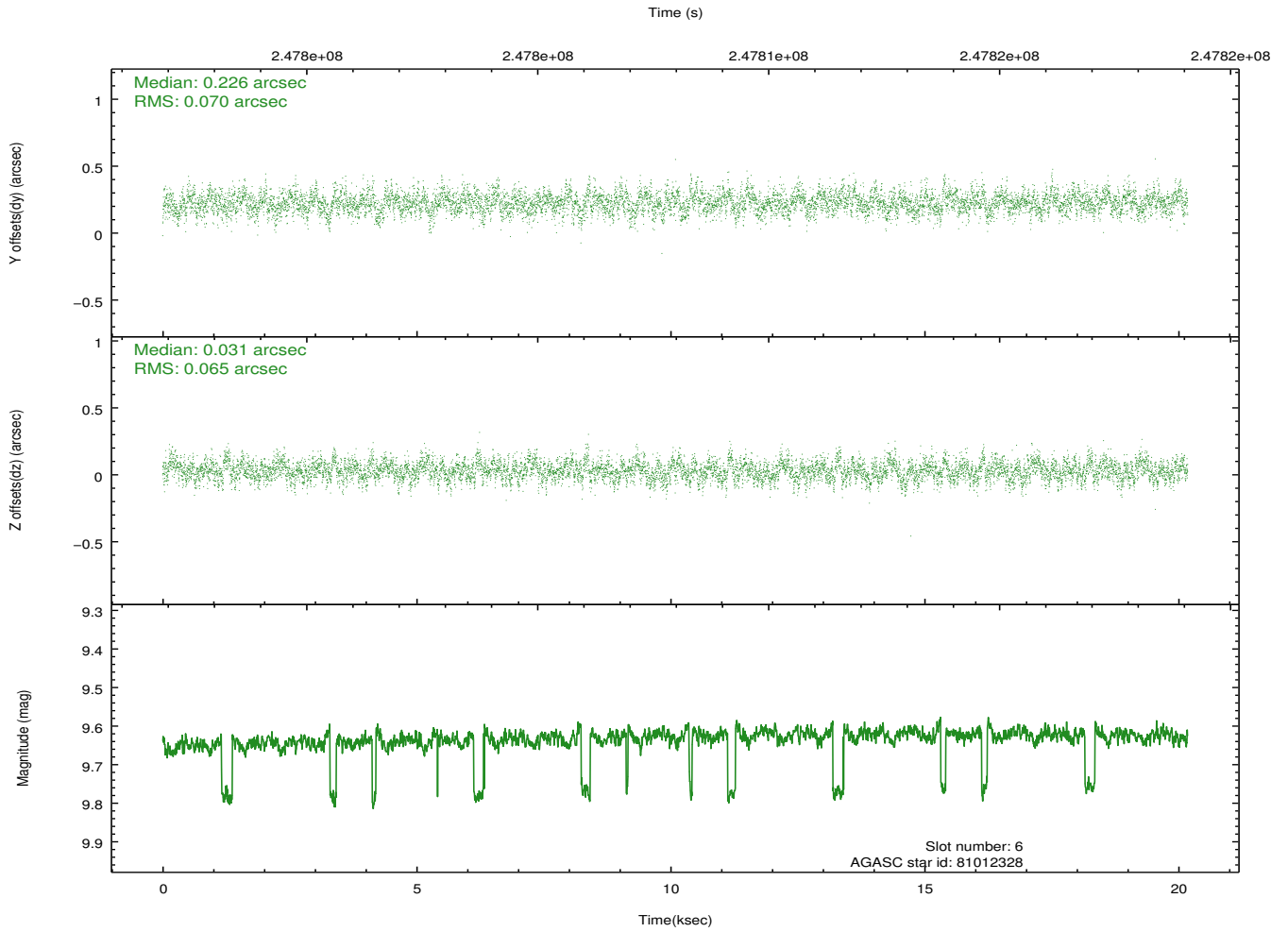
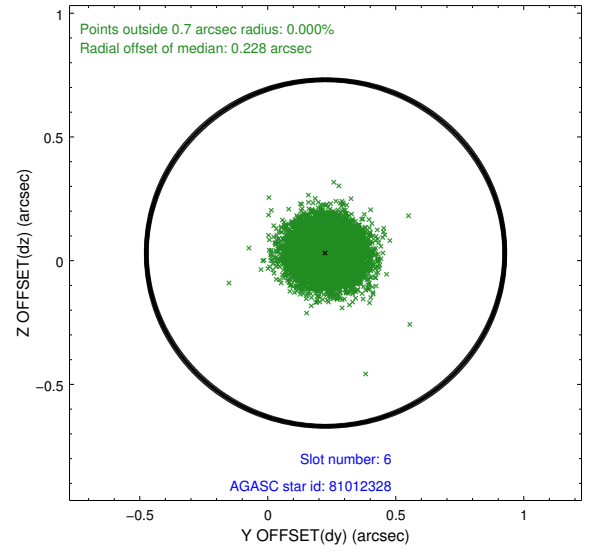
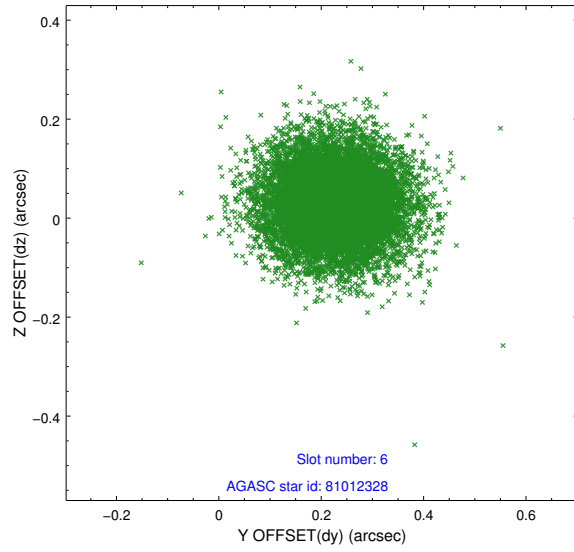
2.4.2 Slot 4



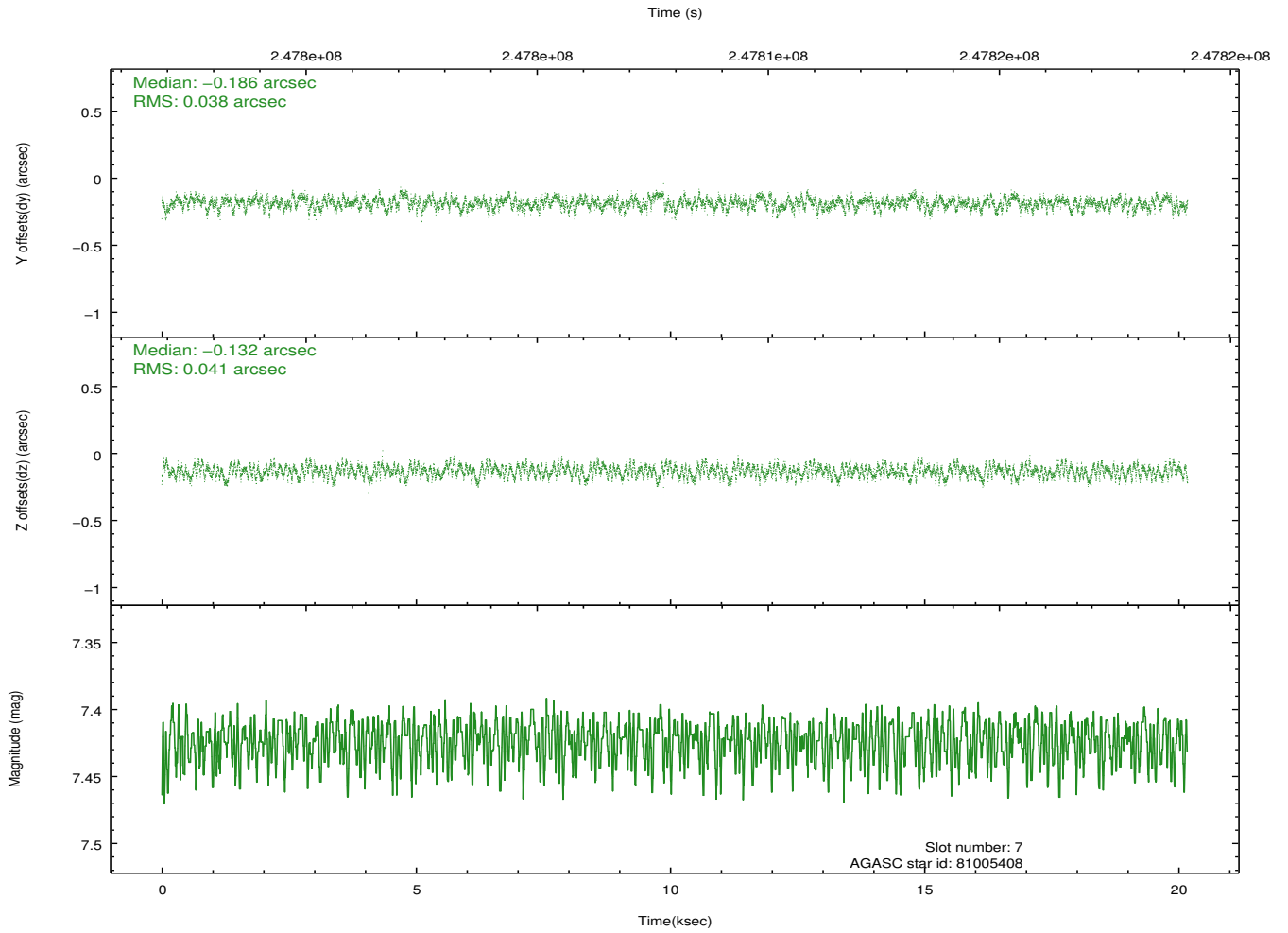
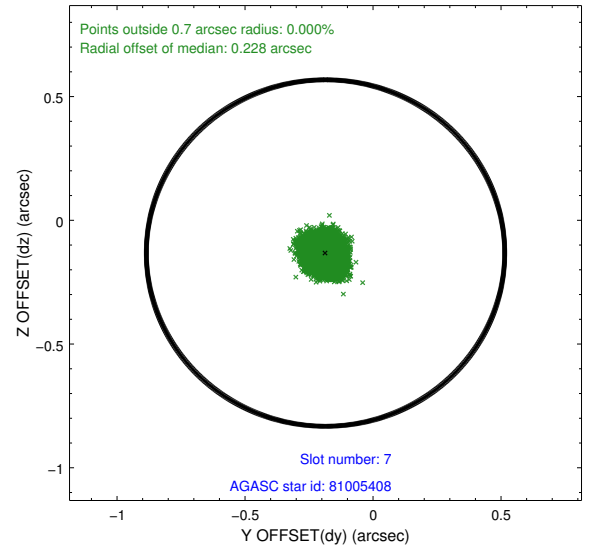
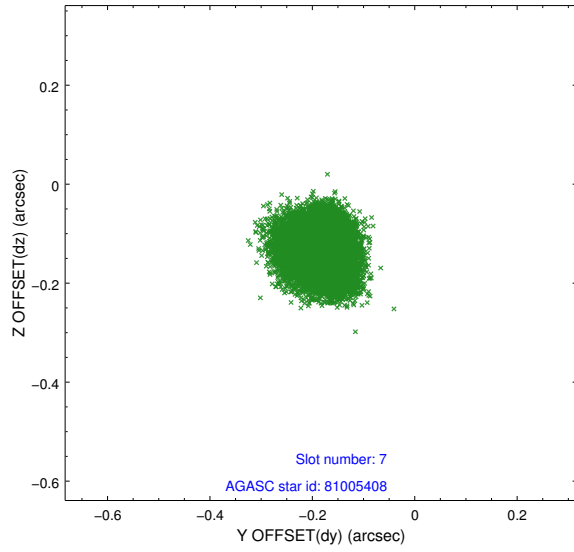
2.4.3 Slot 5



2.4.4 Slot 6

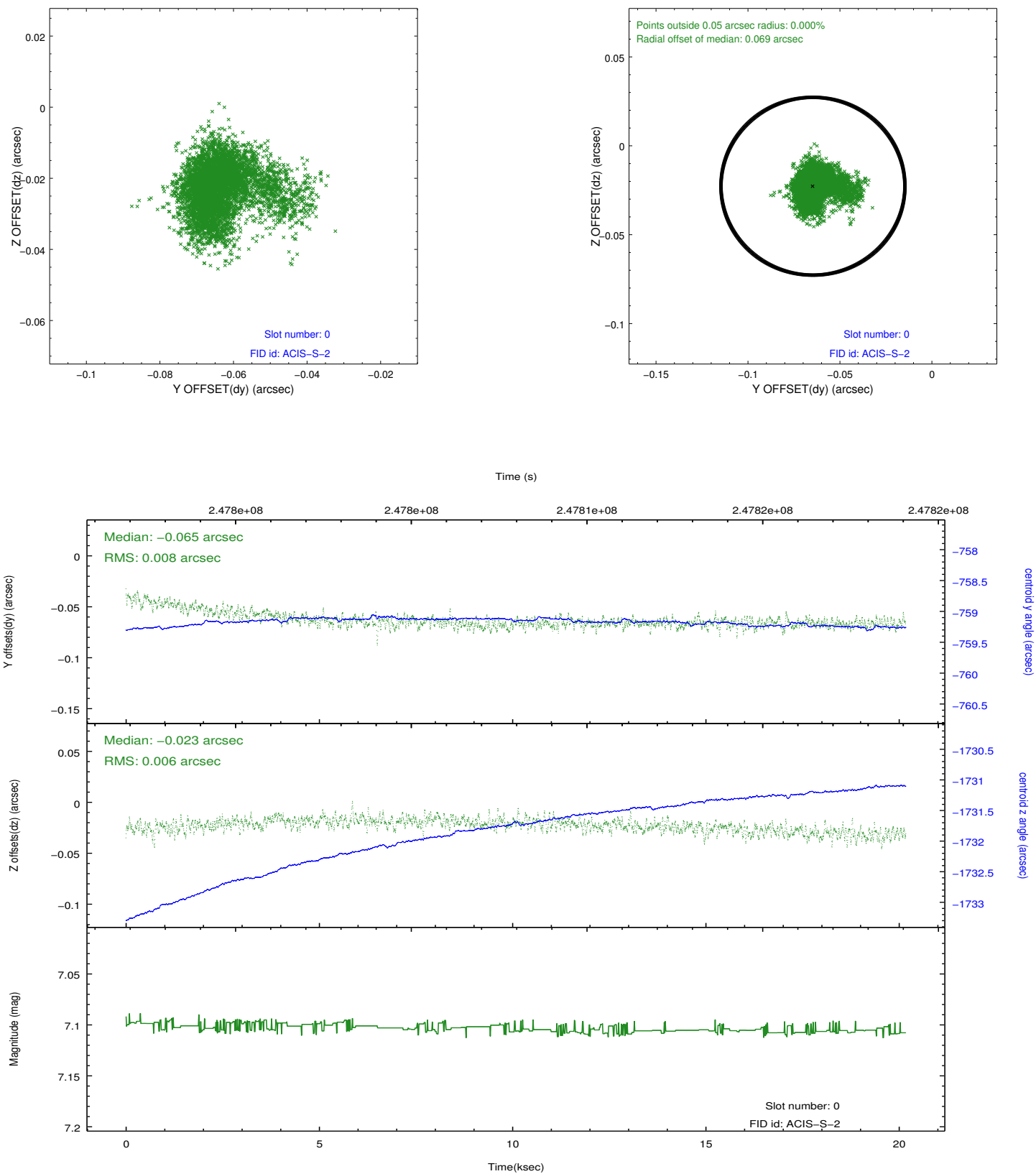


2.4.5 Slot 7

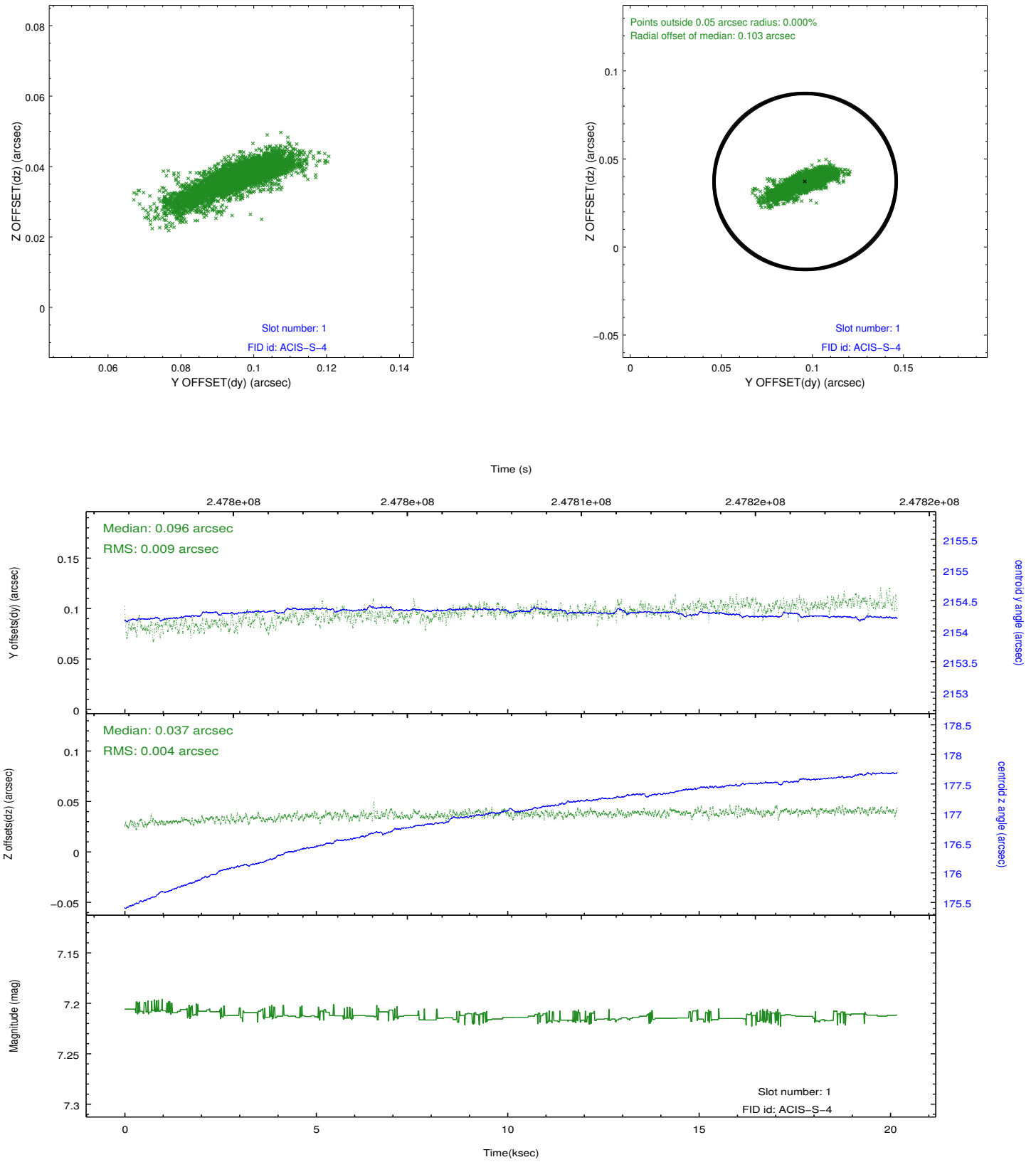


2.5 FID Slots

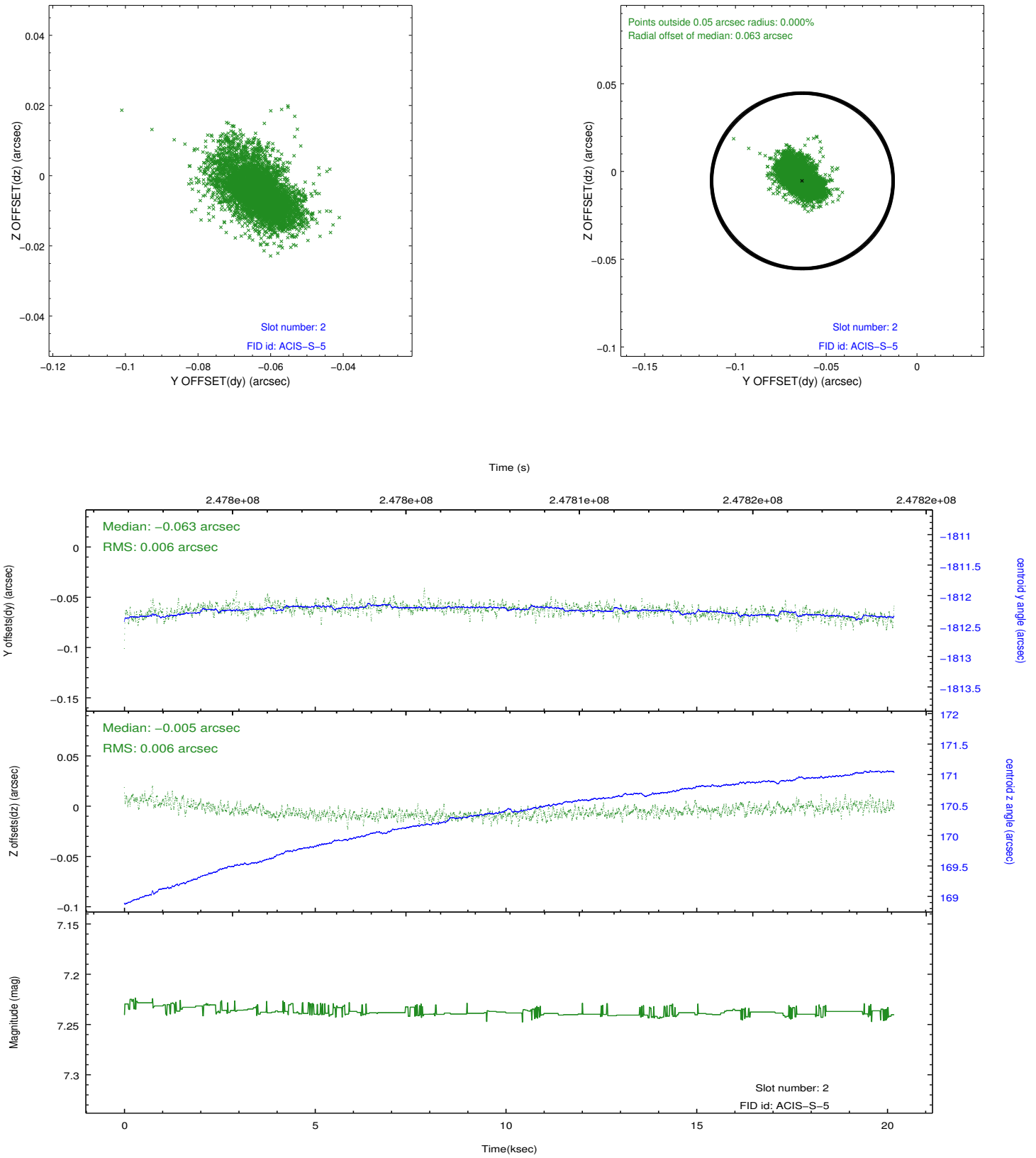
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.17479

A.2 Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(17.00883,13.40832),(17.00168,13.40692),(17.00669,13.38301),(17.01311,13.38788)