

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 4952 - L2 Version 3
Chandra X-Ray Center

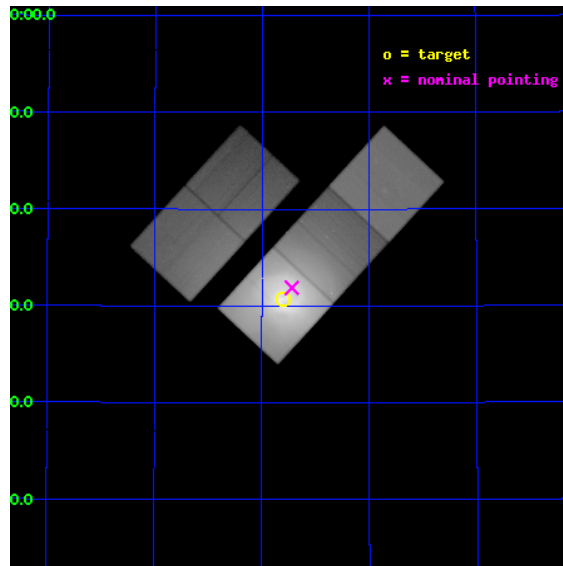
L2 Processing Date : Dec 14 2012

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1 Front

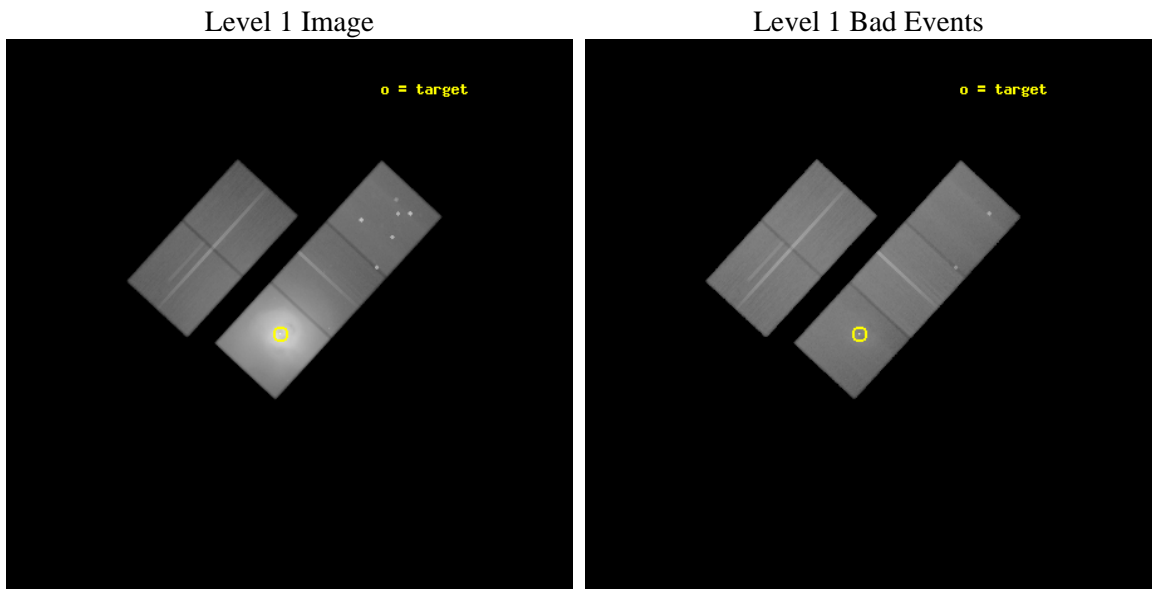
seq_num	800400	Sequence number
obs_id	4952	Observation id
title	A Megasecond Image of the Core of the Perseus Cluster	Proposal tit
observer	Professor Andrew Fabian	Principal investigator
object	Abell 426	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511722	Observer's specified target Dec [deg]
ra_nom	49.930043507263	Nominal RA [deg]
dec_nom	41.531187523001	Nominal Dec [deg]
roll_nom	132.64810106046	Nominal Roll [deg]
revision	3	Processing version of data
ontime	166417.29967999	Sum of GTIs [s]
livetime	164242.93514504	Livetime [s]
ontime2	166407.87671924	Sum of GTIs [s]
ontime3	166417.29967999	Sum of GTIs [s]
ontime5	166417.29967999	Sum of GTIs [s]
ontime6	166411.01767963	Sum of GTIs [s]
ontime7	166417.29967999	Sum of GTIs [s]
l2events	16394472	Number of level 2 events



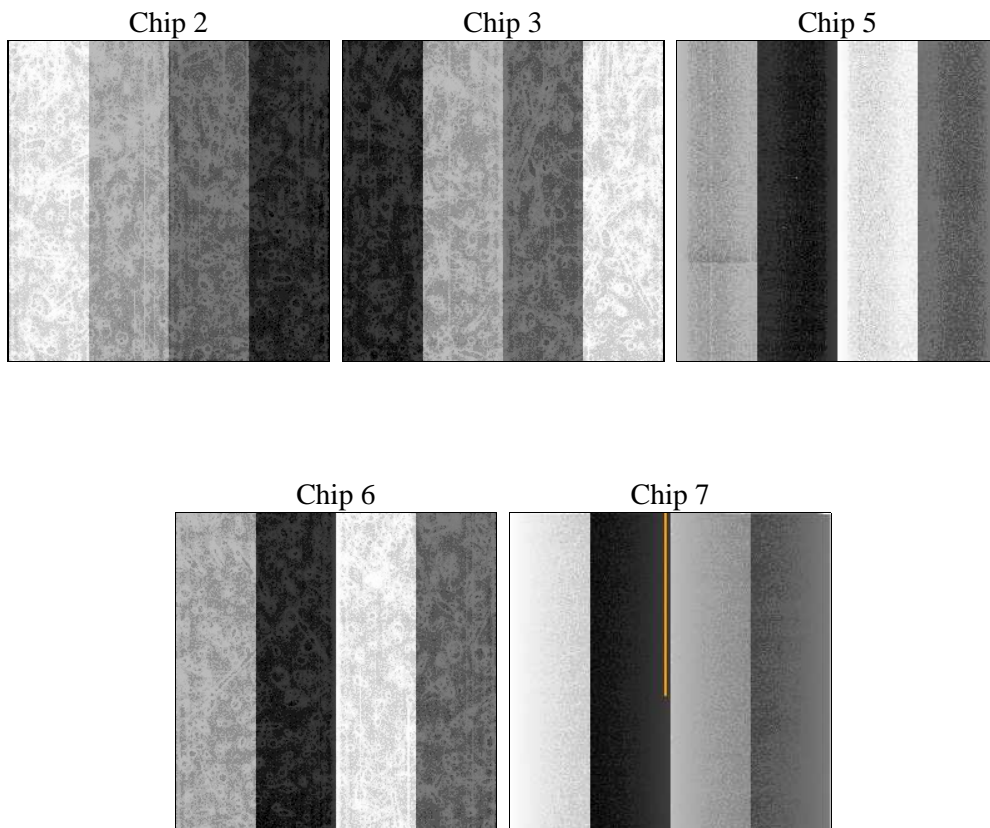
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	166234.710000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	166417.29967999	Sum of GTIs [s]
caldsver	4.5.4	 	ontime2	166407.87671924	Sum of GTIs [s]
date	2012-12-11T02:23:19	Date and time of file creation	ontime3	166417.29967999	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	166417.29967999	Sum of GTIs [s]
			ontime6	166411.01767963	Sum of GTIs [s]
			ontime7	166417.29967999	Sum of GTIs [s]
			l1events	21549012	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	1472315	1720300	1900563	2532183	13923651	grade 0 events	307017	539040	262042	1152531	3606921
rejected events	1037193	998506	773820	1038470	830630		20%	31%	13%	45%	25%
rejected %	70%	58%	40%	41%	5%	grade 1 events	2040	3142	15448	5342	10415
							0%	0%	0%	0%	0%
						grade 2 events	57530	84625	323180	168605	3445911
							3%	4%	17%	6%	24%
						grade 3 events	22090	32038	56399	55810	1530793
							1%	1%	2%	2%	10%
						grade 4 events	22063	31458	54744	55970	1510109
							1%	1%	2%	2%	10%
						grade 5 events	35523	43743	123426	47894	218502
							2%	2%	6%	1%	1%
						grade 6 events	27794	36198	439343	65165	3015154
							1%	2%	23%	2%	21%
						grade 7 events	998258	950056	625981	980866	585846
							67%	55%	32%	38%	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	49.964919	49.93004350726289	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.523410	41.53118752300126	Alternating exposures requested	N	N
[deg] Pointing Roll	132.468351	132.6481010604642	[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)	214124415.184000	214122660.45653			
Observation start date	2004-10-14T06:59:11	2004-10-14T06:31:00			
[s] Observation end time (MET)	214290649.184000	214290867.06405			
Observation end date	2004-10-16T05:09:45	2004-10-16T05:14:27			
Read mode	TIMED	TIMED			

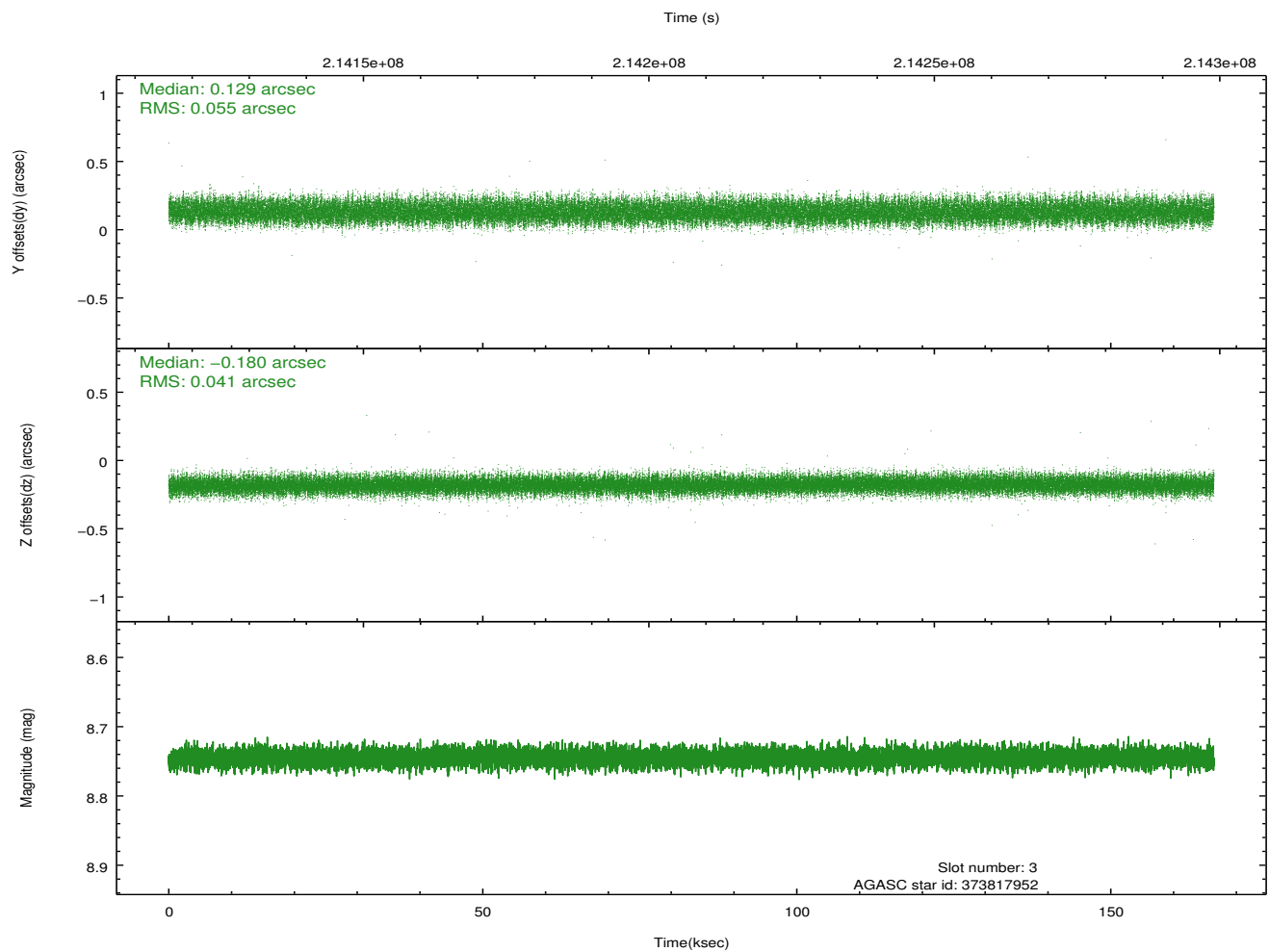
2.3 Aspect

Slot Statistics

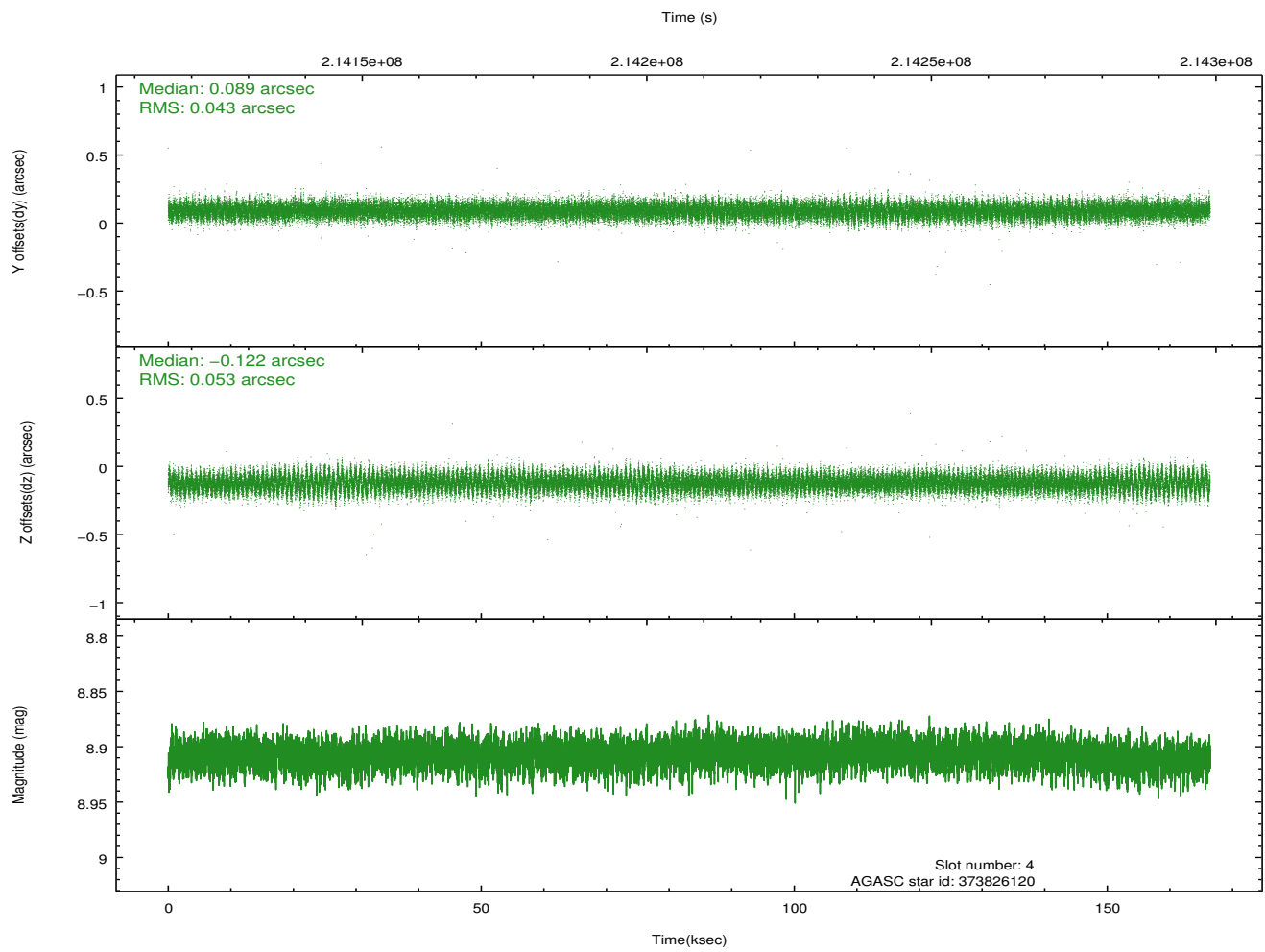
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	40589	-0.068	-0.040	0.006	0.010	0.000000	0.000000	-759.68	-1730.68
1	FID	ACIS-S-4	7.21	40589	0.062	0.037	0.006	0.011	0.000000	0.000000	2153.77	178.03
2	FID	ACIS-S-6	7.35	40591	-0.023	0.010	0.007	0.012	0.000000	0.000000	402.18	815.25
3	GUIDE	373817952	8.75	81145	0.129	-0.180	0.073	0.116	49.913424	40.978510	-1352.40	1427.51
4	GUIDE	373826120	8.91	81143	0.089	-0.122	0.072	0.117	49.738165	41.186341	-479.60	1271.94
5	GUIDE	374352808	8.77	81142	-0.107	0.099	0.067	0.109	49.969955	42.208621	1810.92	-1674.87
6	GUIDE	374357808	8.68	81151	-0.155	0.083	0.066	0.107	49.921429	42.176083	1811.86	-1500.40
7	GUIDE	376057824	8.36	81090	0.048	0.125	0.063	0.108	50.665569	41.926280	-191.14	-2368.38

2.4 Star Slots

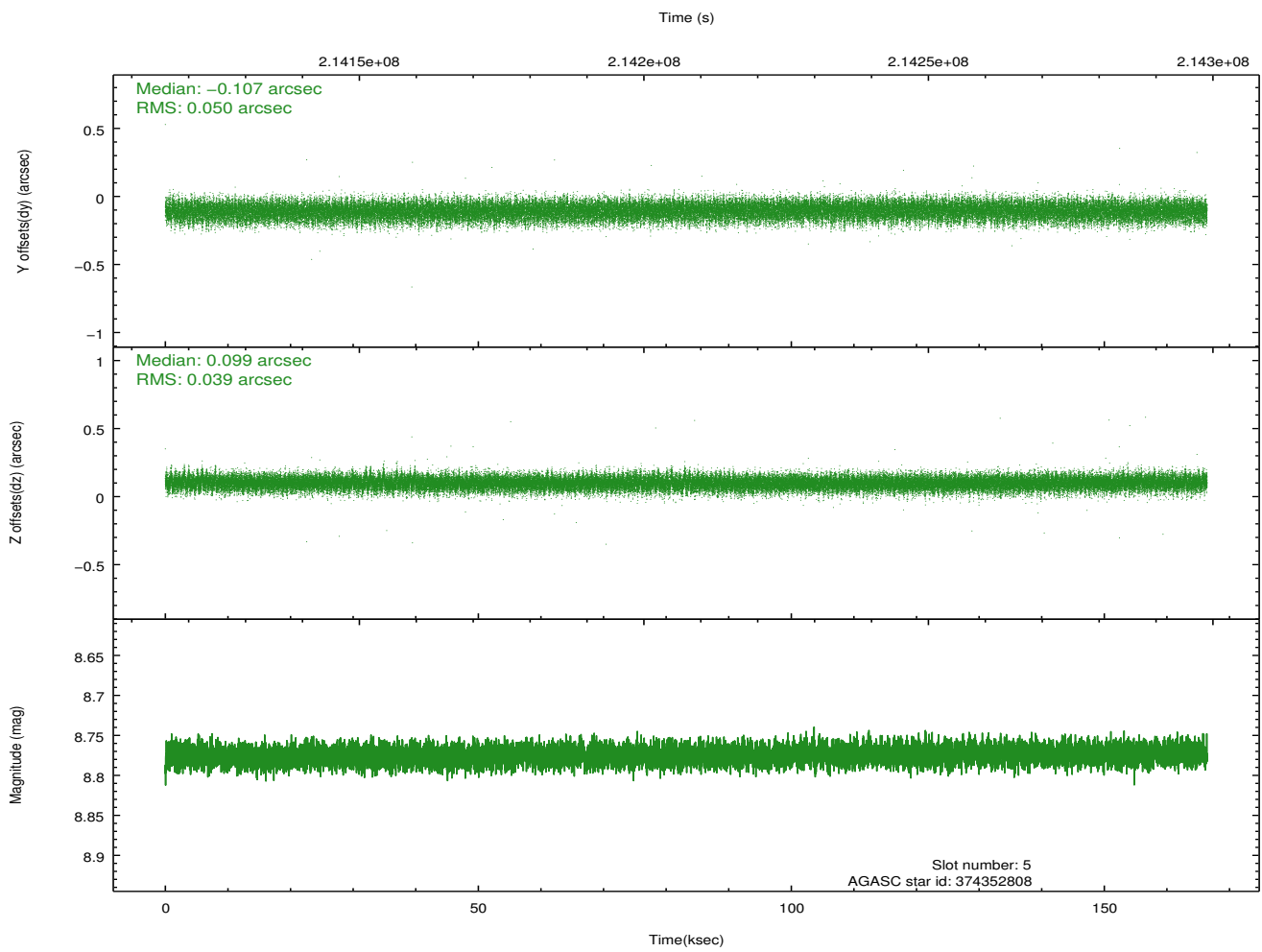
2.4.1 Slot 3



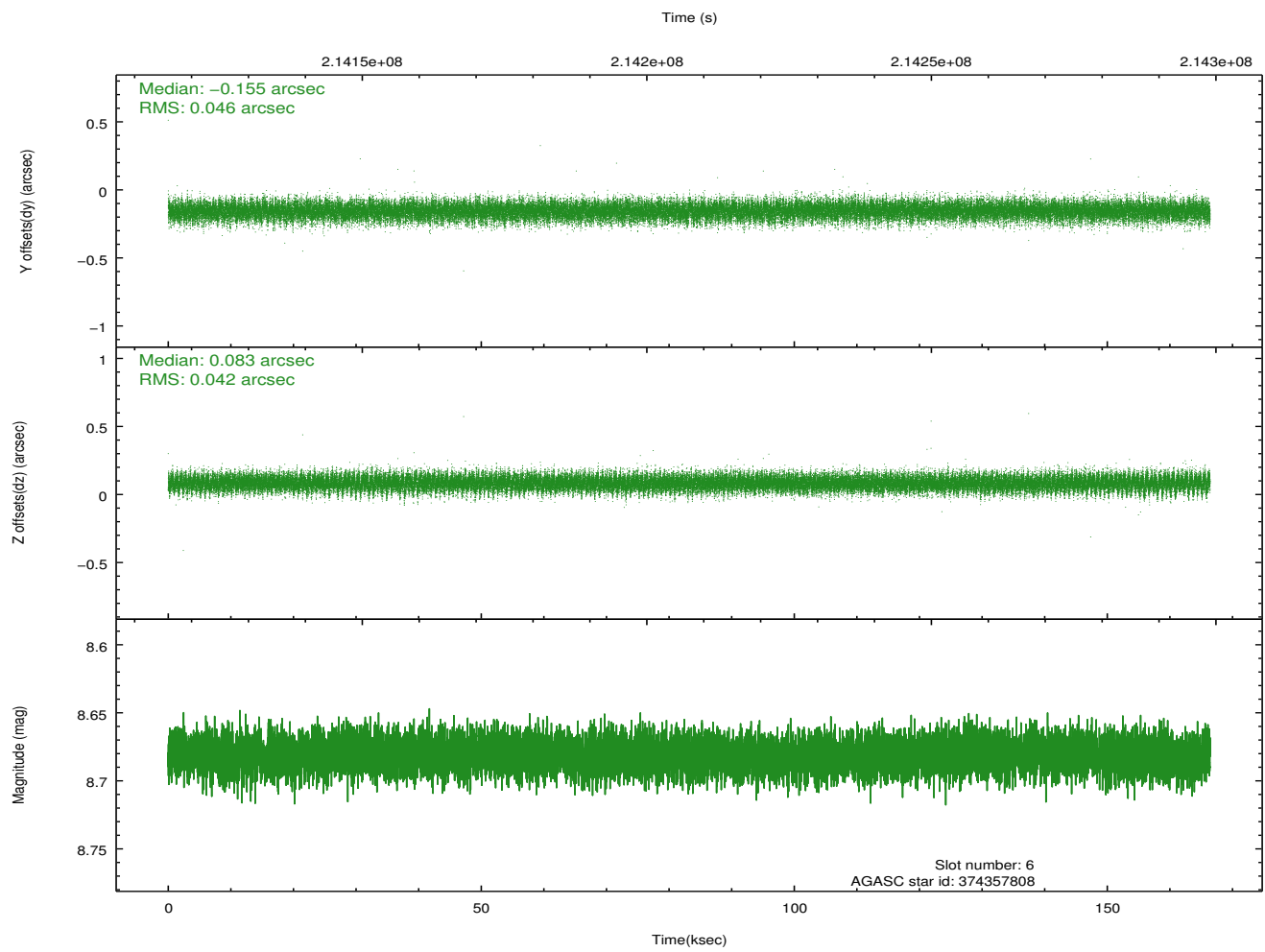
2.4.2 Slot 4



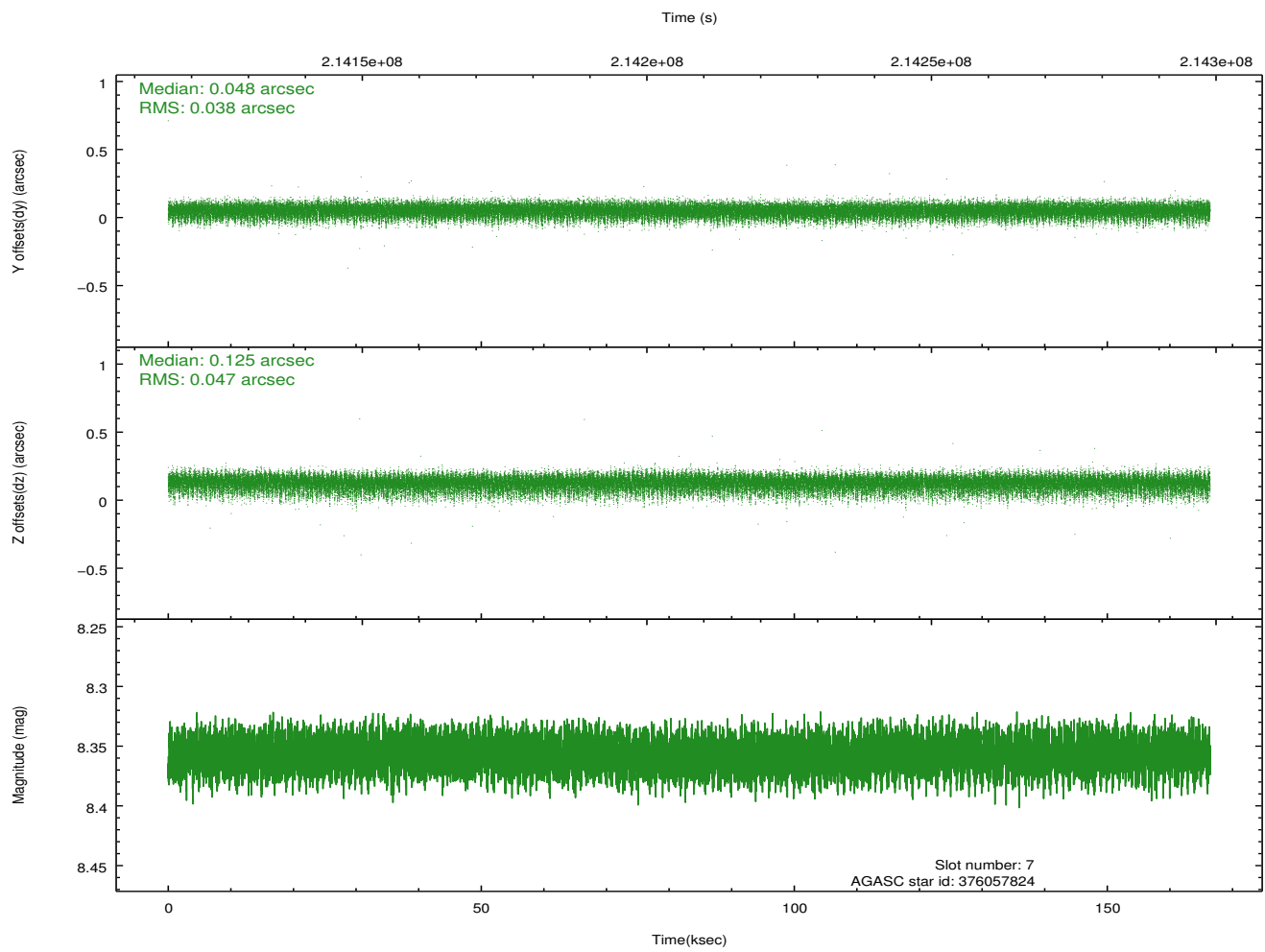
2.4.3 Slot 5



2.4.4 Slot 6

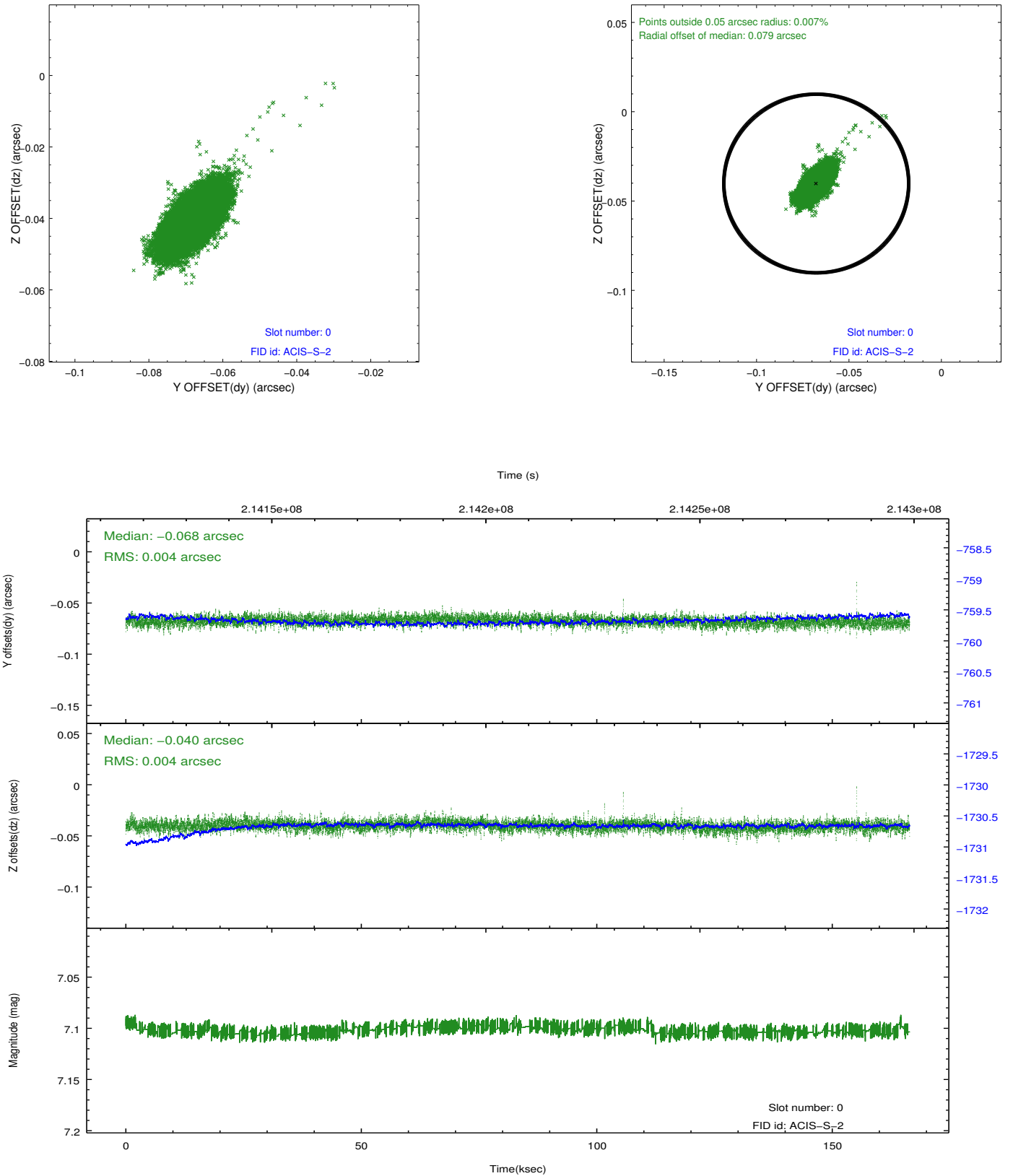


2.4.5 Slot 7

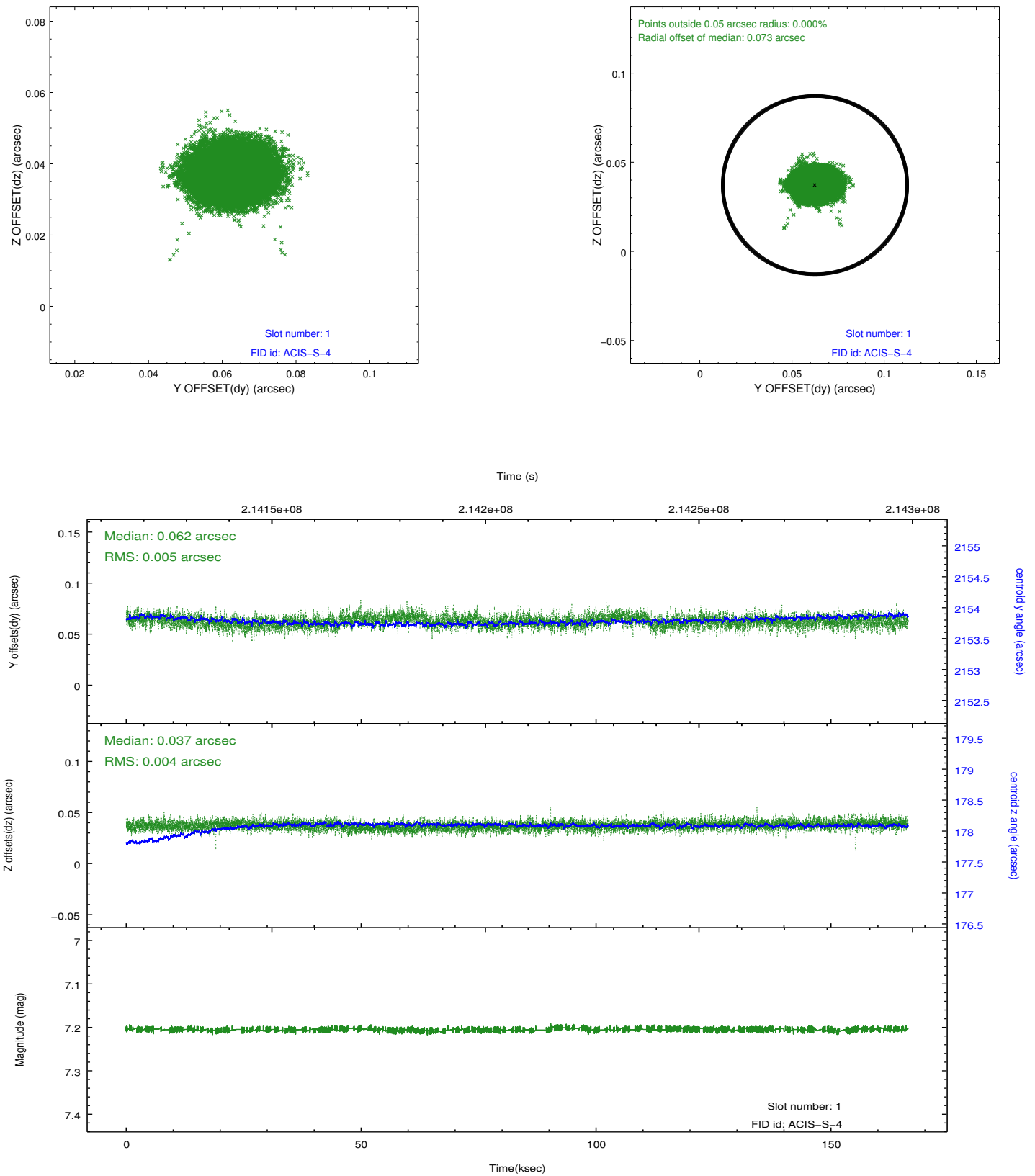


2.5 FID Slots

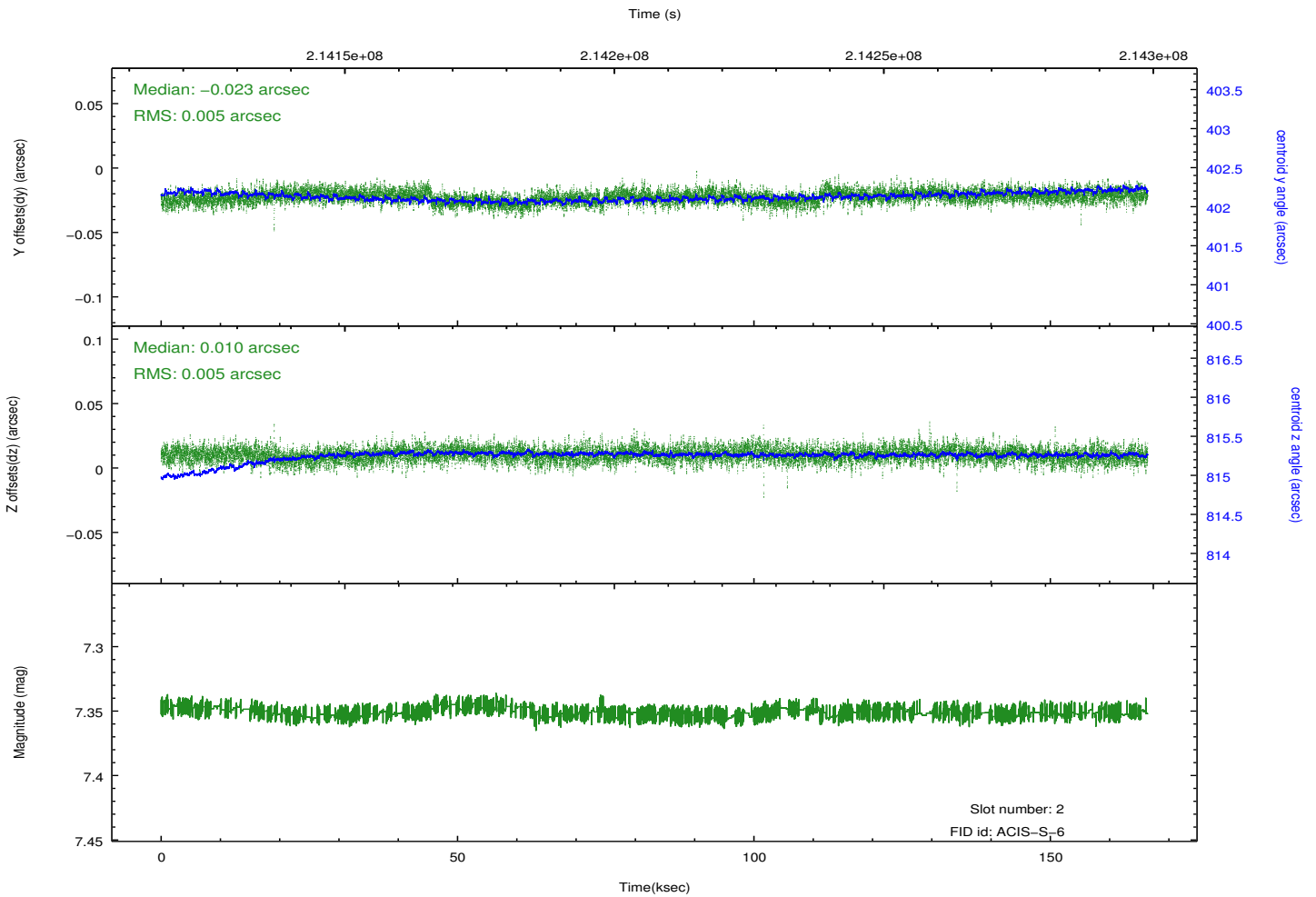
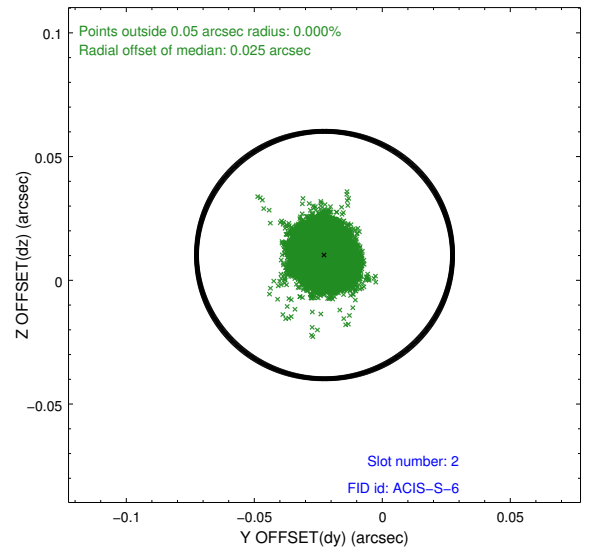
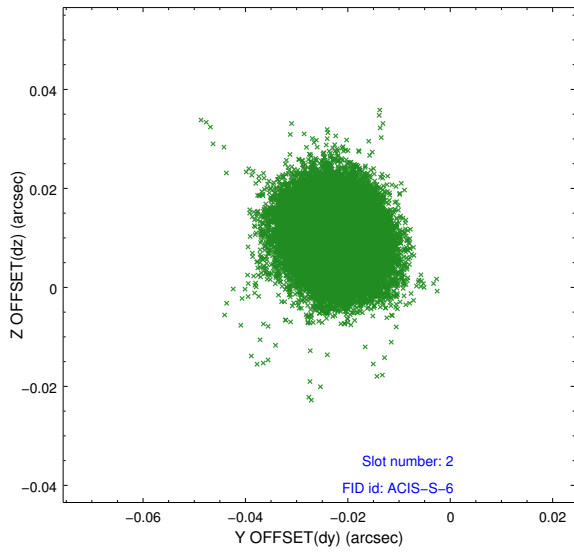
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	166.417

A.2 Comments