

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2563 - L2 Version 5
Chandra X-Ray Center

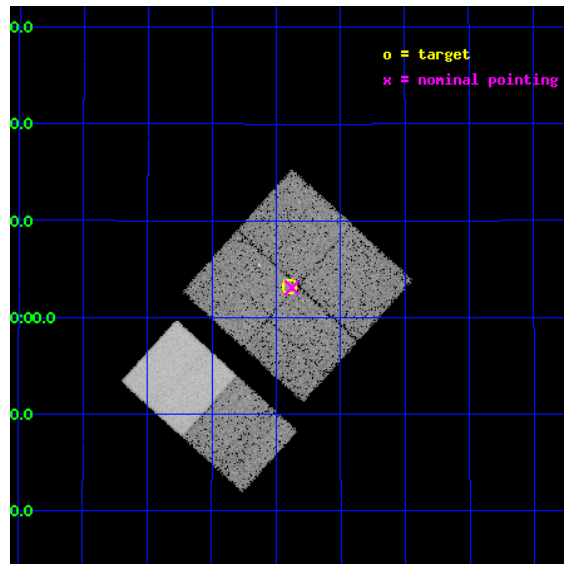
L2 Processing Date : Dec 11 2012

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1 Front

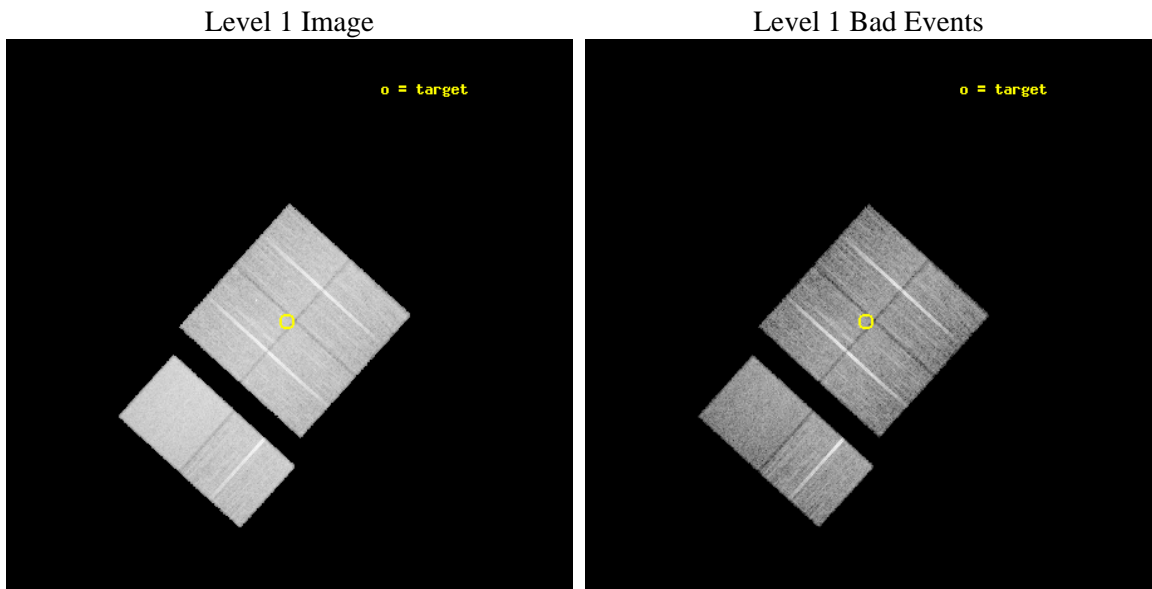
seq_num	200171	Sequence number
obs_id	2563	Observation id
title	X-RAY EVOLUTION OF ACCRETING PROTOSTARS	Proposal title
observer	DR. PHILIPPE ANDRE	Principal investigator
object	L1527	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.974583	Observer's specified target RA [deg]
dec_targ	26.052778	Observer's specified target Dec [deg]
ra_nom	69.969714834014	Nominal RA [deg]
dec_nom	26.051262555121	Nominal Dec [deg]
roll_nom	222.21081062954	Nominal Roll [deg]
revision	5	Processing version of data
ontime	19570.42202729	Sum of GTIs [s]
liveltime	19322.609559687	Livetime [s]
ontime0	19570.29890731	Sum of GTIs [s]
ontime1	19570.339947283	Sum of GTIs [s]
ontime2	19570.380987287	Sum of GTIs [s]
ontime3	19570.42202729	Sum of GTIs [s]
ontime6	19570.504107296	Sum of GTIs [s]
ontime7	19570.463047385	Sum of GTIs [s]
l2events	126385	Number of level 2 events



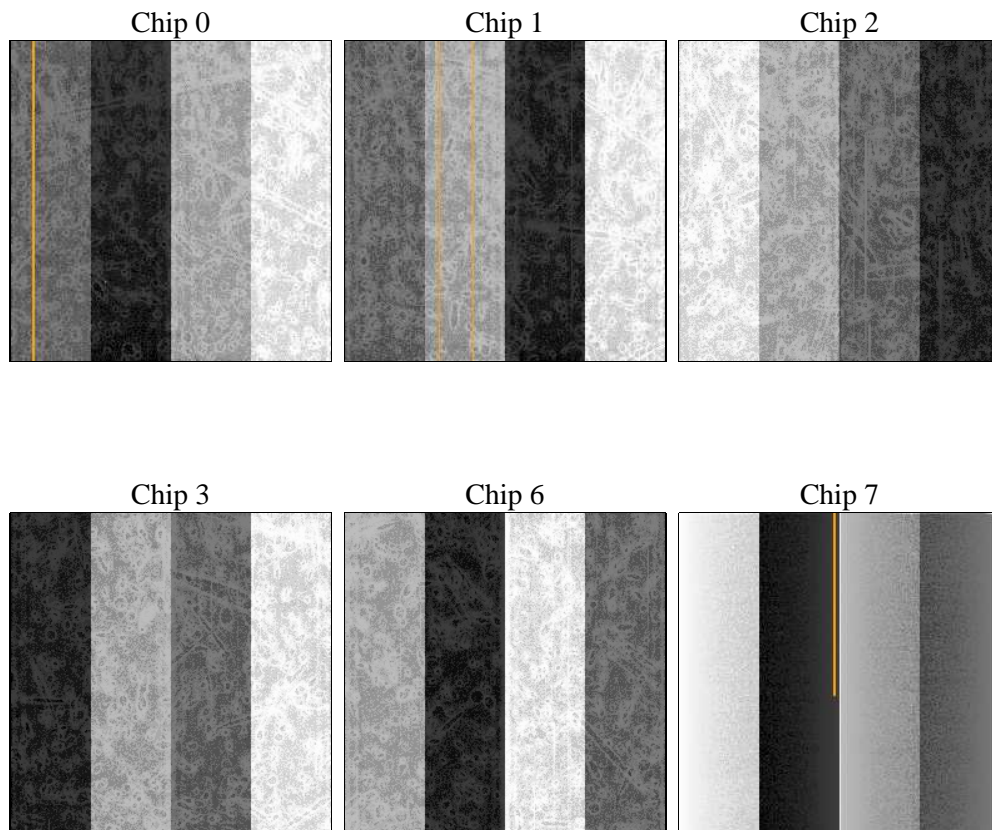
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19813.241000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	19570.42202729	Sum of GTIs [s]
caldbver	4.5.4	 	ontime0	19570.29890731	Sum of GTIs [s]
date	2012-12-11T16:45:54	Date and time of file creation	ontime1	19570.339947283	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	19570.380987287	Sum of GTIs [s]
			ontime3	19570.42202729	Sum of GTIs [s]
			ontime6	19570.504107296	Sum of GTIs [s]
			ontime7	19570.463047385	Sum of GTIs [s]
			l1events	773363	Number of level 1 events

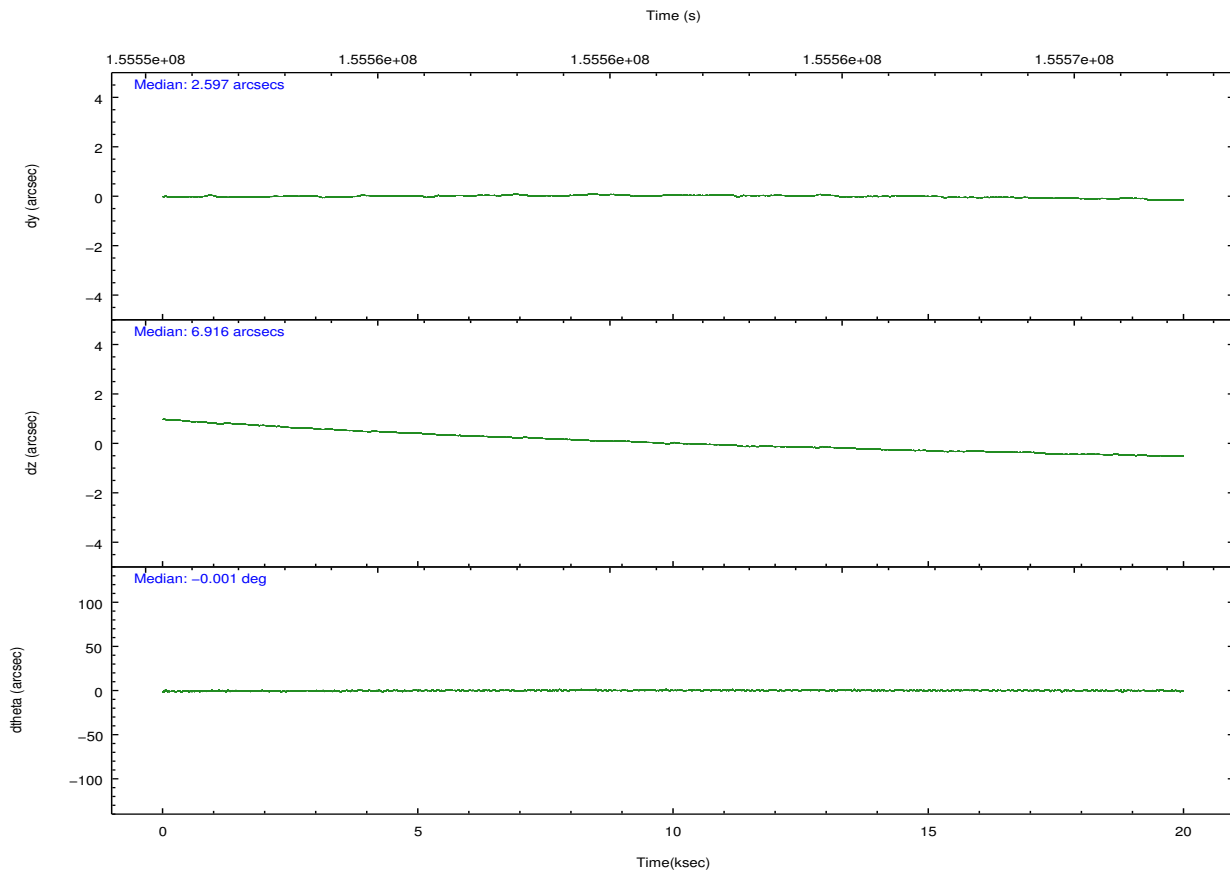
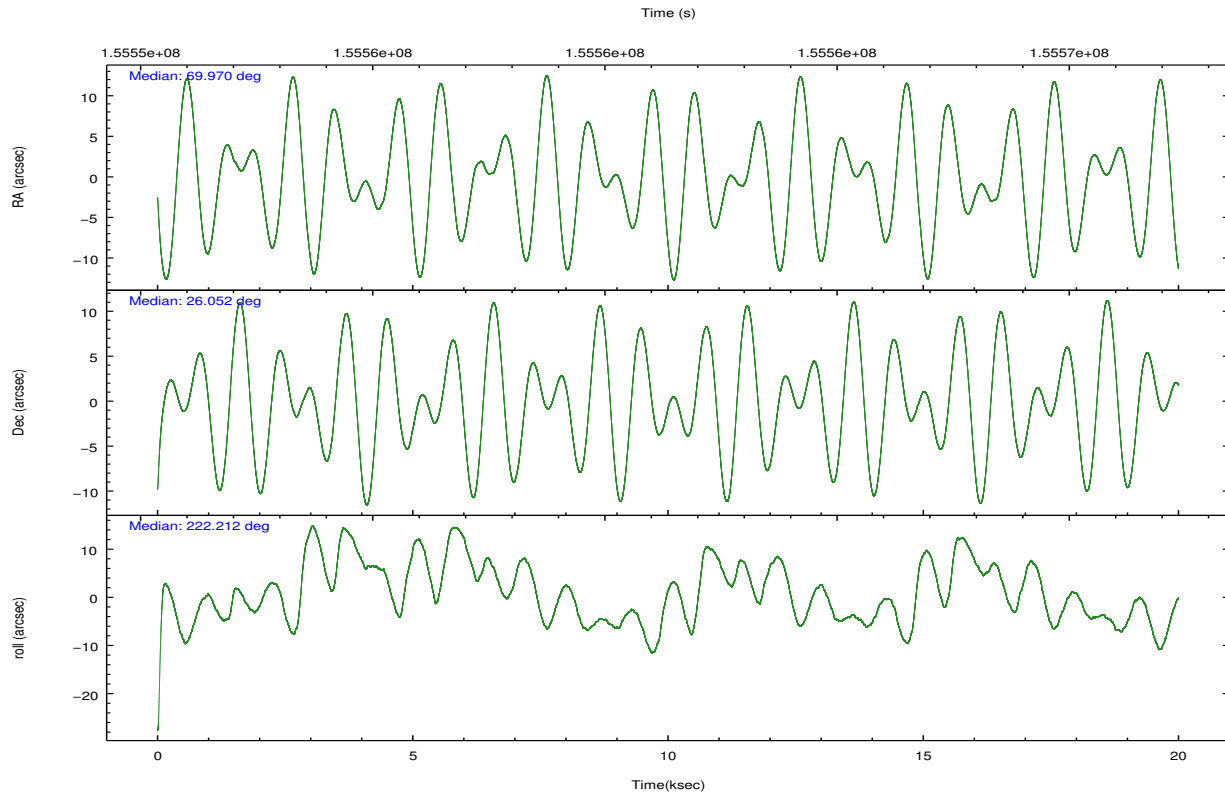
2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	116108	118012	123553	121870	131196	162624	grade 0 events	6015	5815	6048	6136	5442	5800
rejected events	101725	102984	109525	107680	116898	96285		5%	4%	4%	5%	4%	3%
rejected %	87%	87%	88%	88%	89%	59%	grade 1 events	67	65	73	65	53	175
								0%	0%	0%	0%	0%	0%
							grade 2 events	2981	3184	2874	2707	3025	12944
								2%	2%	2%	2%	2%	7%
							grade 3 events	1490	1580	1426	1416	1429	5799
								1%	1%	1%	1%	1%	3%
							grade 4 events	1409	1521	1349	1392	1463	5904
								1%	1%	1%	1%	1%	3%
							grade 5 events	4681	5028	4676	5319	5646	15515
								4%	4%	3%	4%	4%	9%
							grade 6 events	2494	2930	2353	2543	2942	35917
								2%	2%	1%	2%	2%	22%
							grade 7 events	96971	97889	104754	102292	111196	80570
								83%	82%	84%	83%	84%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	69.978910	69.96971483401381	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.077365	26.05126255512078	Alternating exposures requested	N	N
[deg] Pointing Roll	221.998100	222.2108106295446	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	155551547.184000	155550612.96229			
Observation start date	2002-12-06T08:44:43	2002-12-06T08:30:12			
[s] Observation end time (MET)	155571360.184000	155571675.17566			
Observation end date	2002-12-06T14:14:56	2002-12-06T14:21:15			
Read mode	TIMED	TIMED			

2.3 Aspect

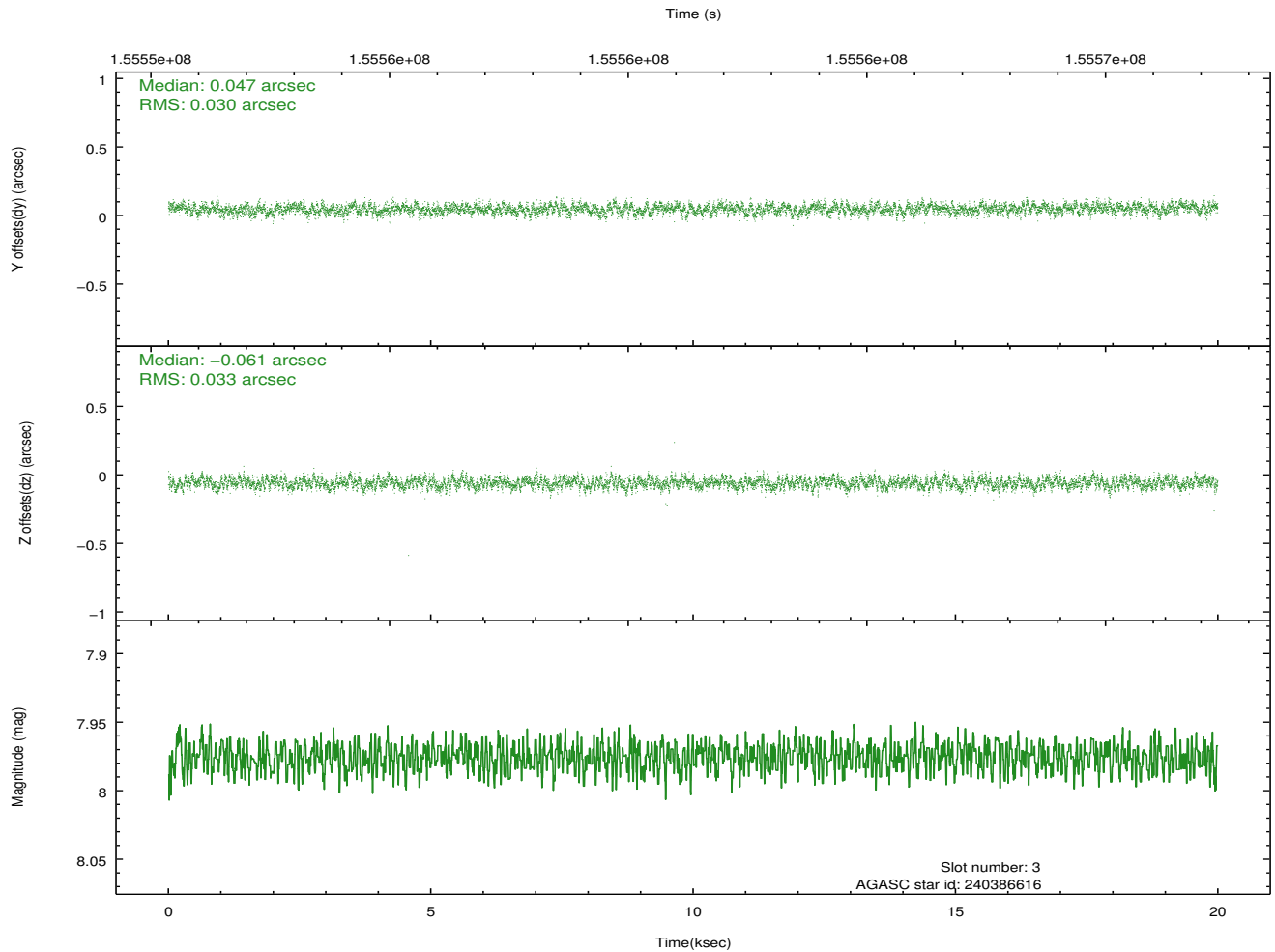
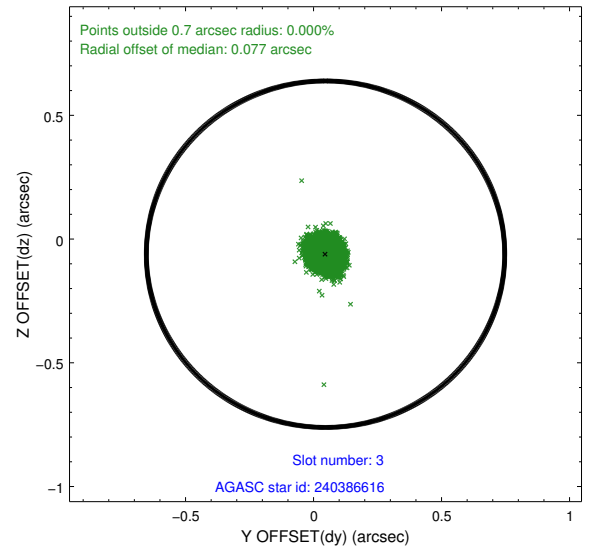
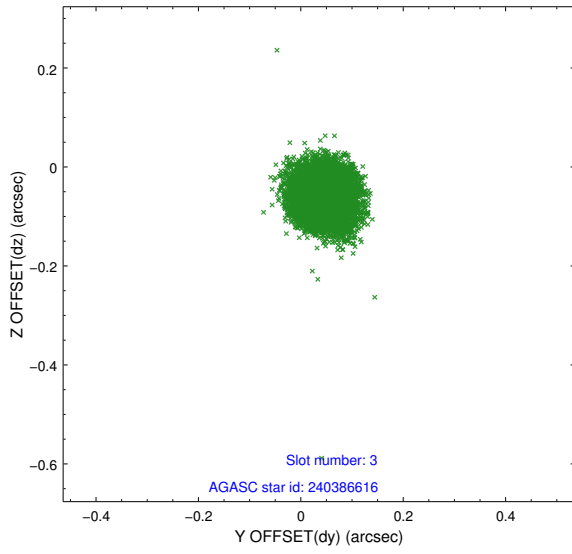


Slot Statistics

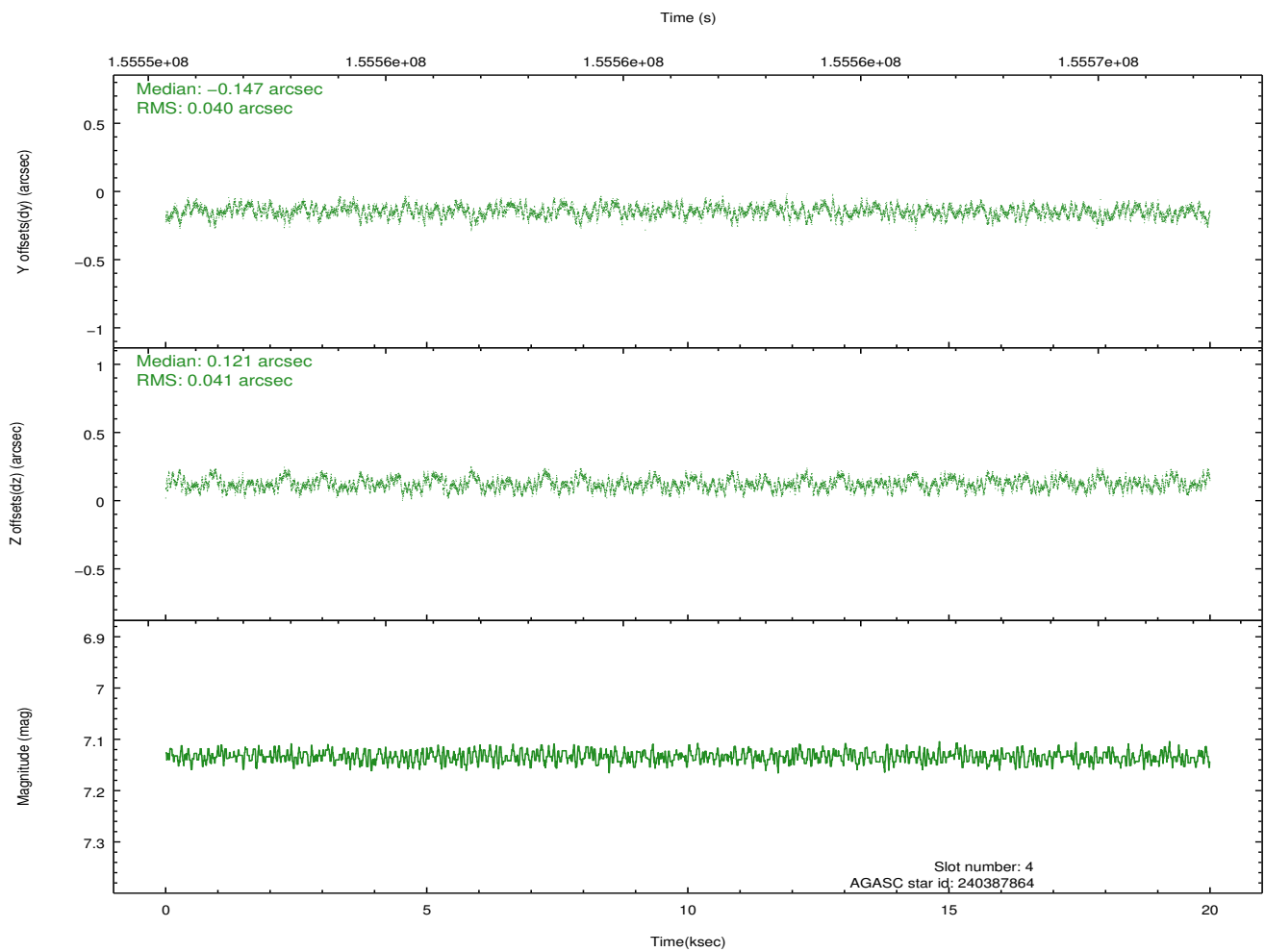
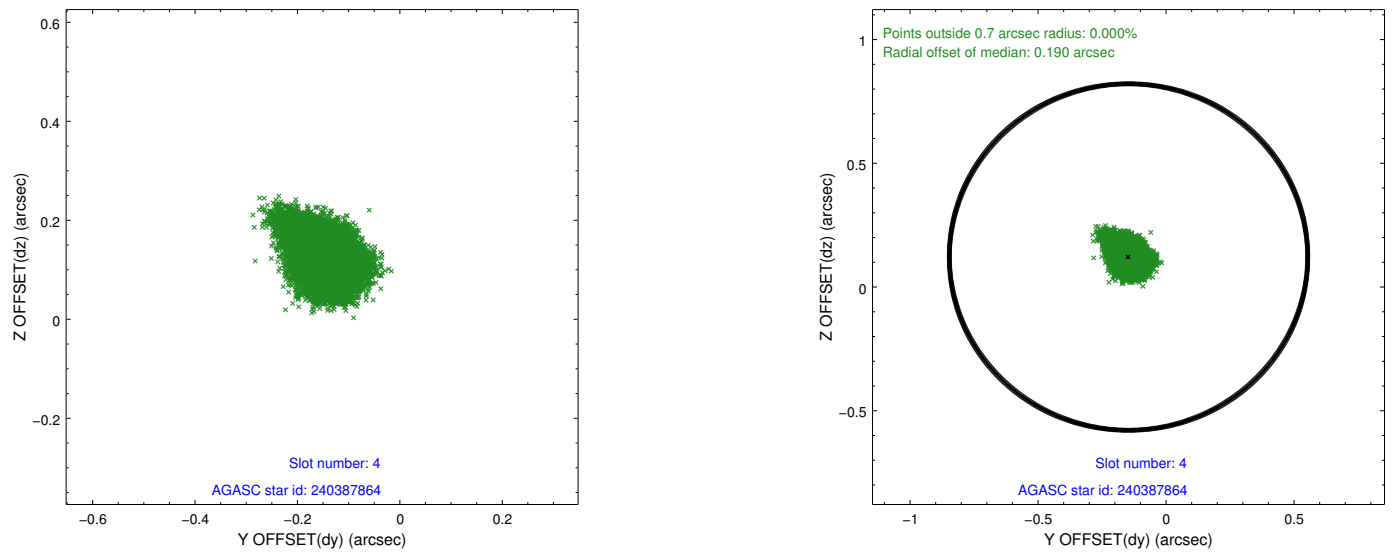
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	4878	0.006	0.006	0.012	0.034	0.000000	0.000000	937.21	-830.39
1	FID	ACIS-I-5	7.24	4878	-0.065	0.052	0.008	0.013	0.000000	0.000000	-1810.83	1067.10
2	FID	ACIS-I-6	7.26	4877	-0.032	0.010	0.015	0.028	0.000000	0.000000	402.56	1711.73
3	GUIDE	240386616	7.98	9753	0.047	-0.061	0.047	0.074	70.283534	25.992764	-528.91	886.06
4	GUIDE	240387864	7.13	9755	-0.147	0.121	0.061	0.096	69.352478	25.727369	2349.99	-425.33
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	240391800	6.58	9755	0.008	-0.050	0.058	0.100	69.846451	25.218273	2390.78	2010.59
7	GUIDE	240389520	8.07	9752	0.083	-0.015	0.050	0.081	70.770976	26.243075	-2304.06	1263.47

2.4 Star Slots

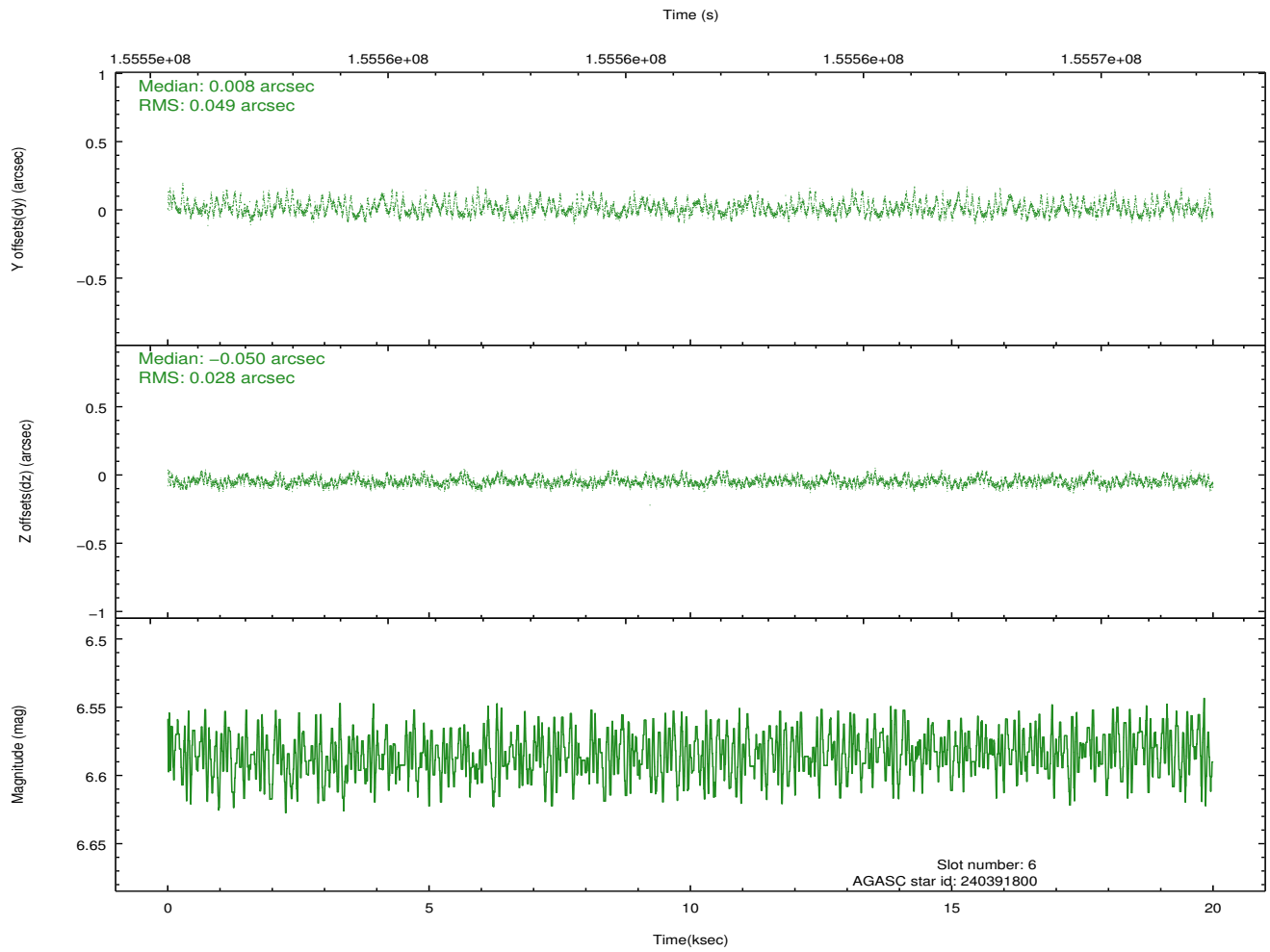
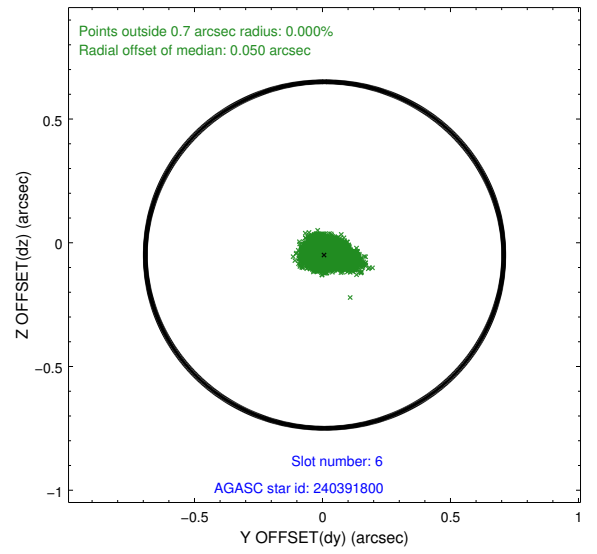
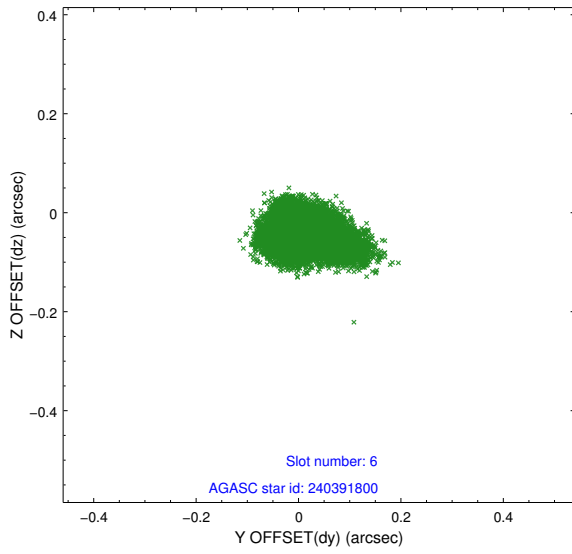
2.4.1 Slot 3



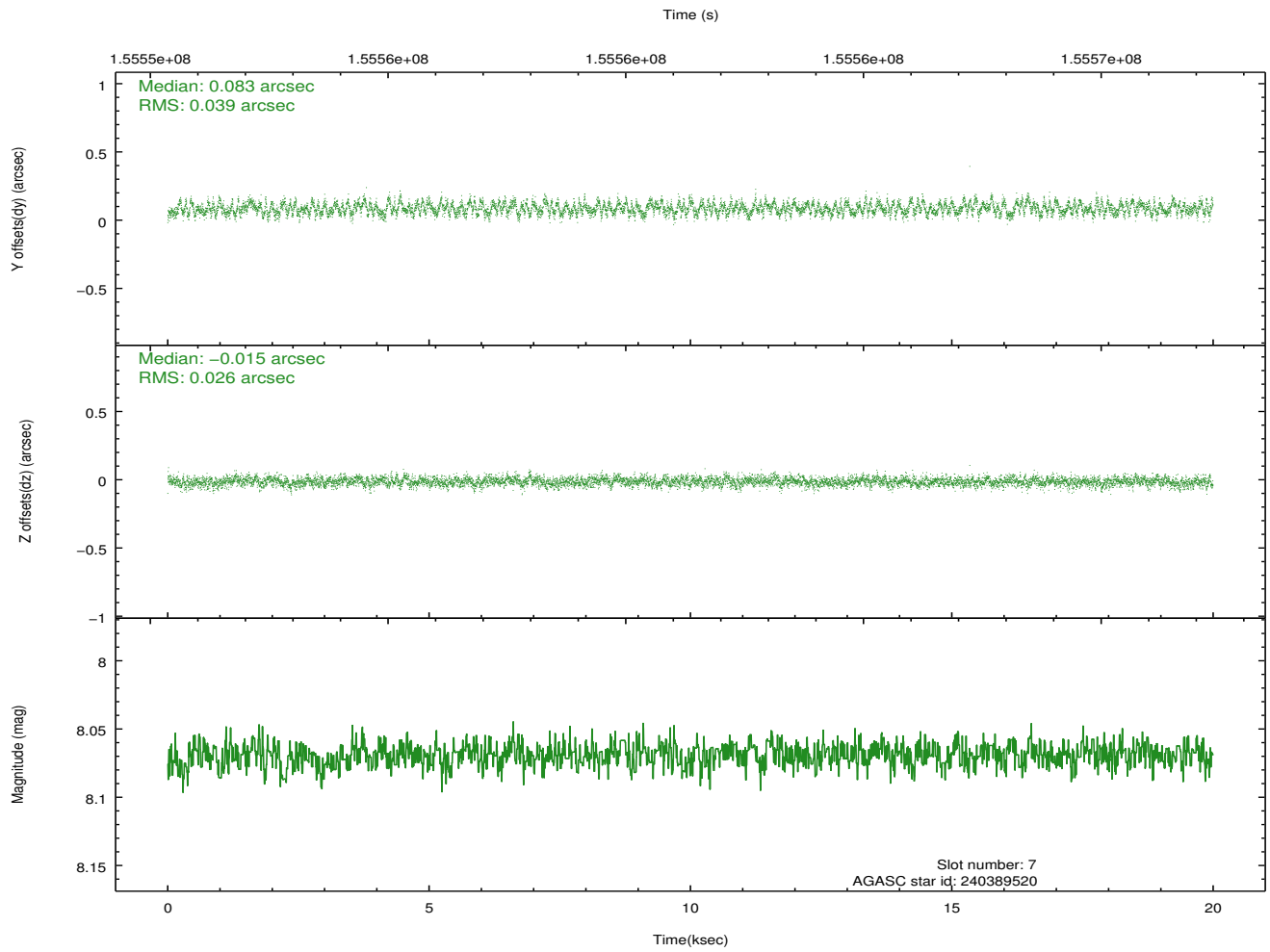
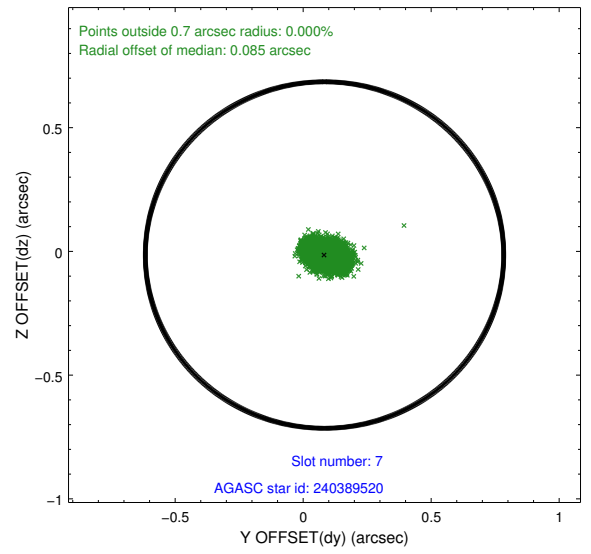
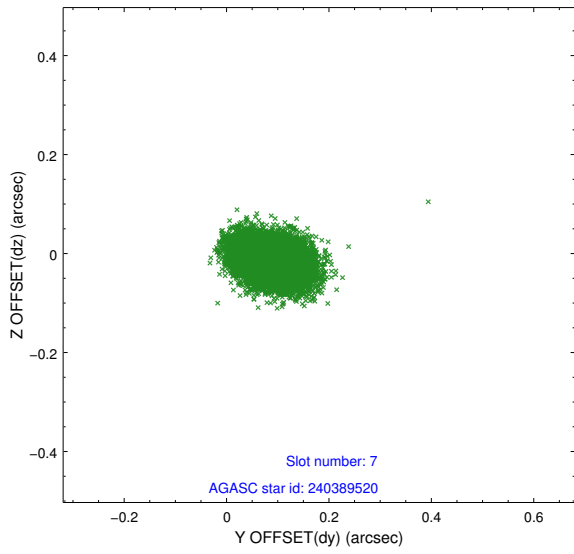
2.4.2 Slot 4



2.4.3 Slot 6

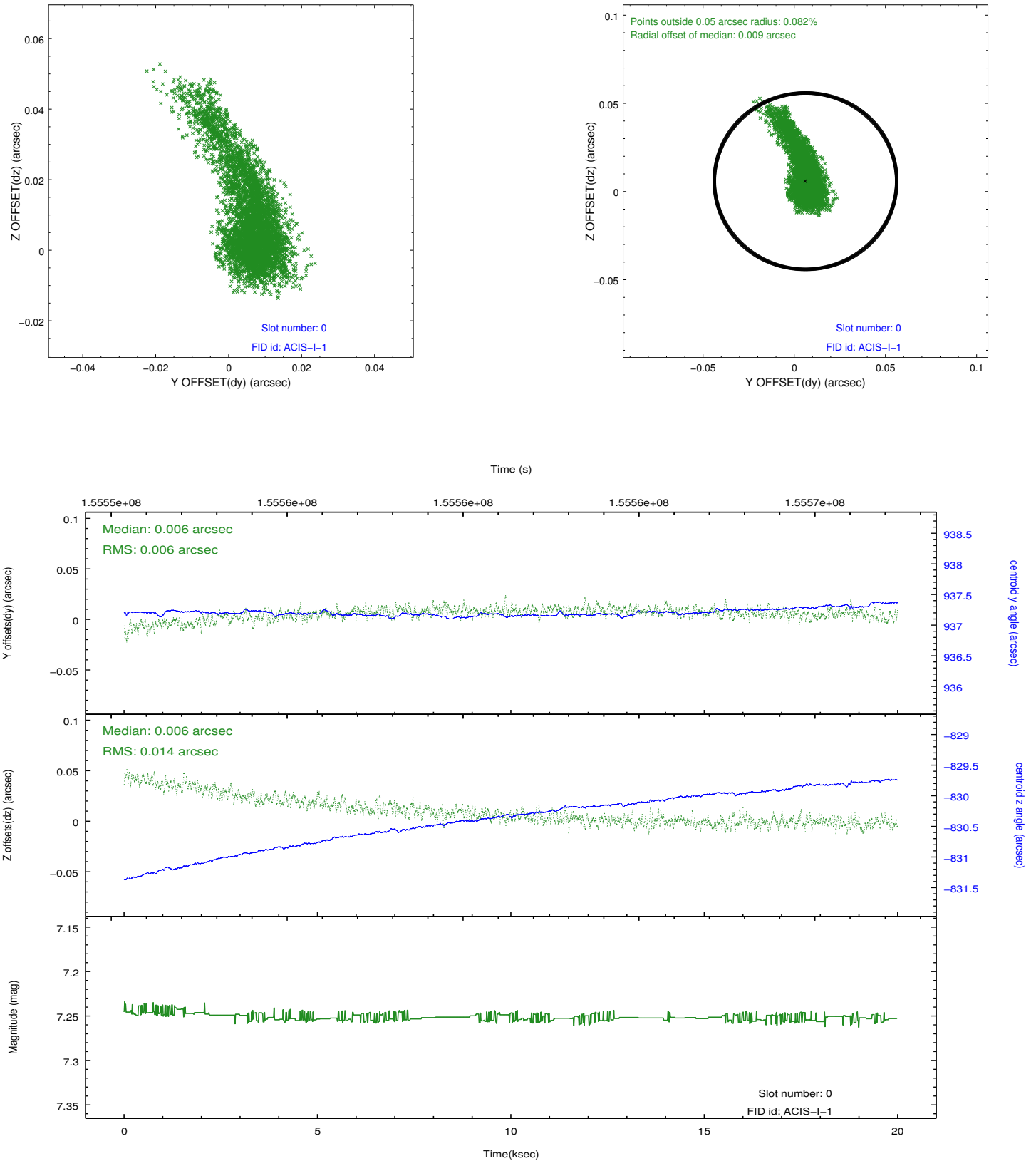


2.4.4 Slot 7

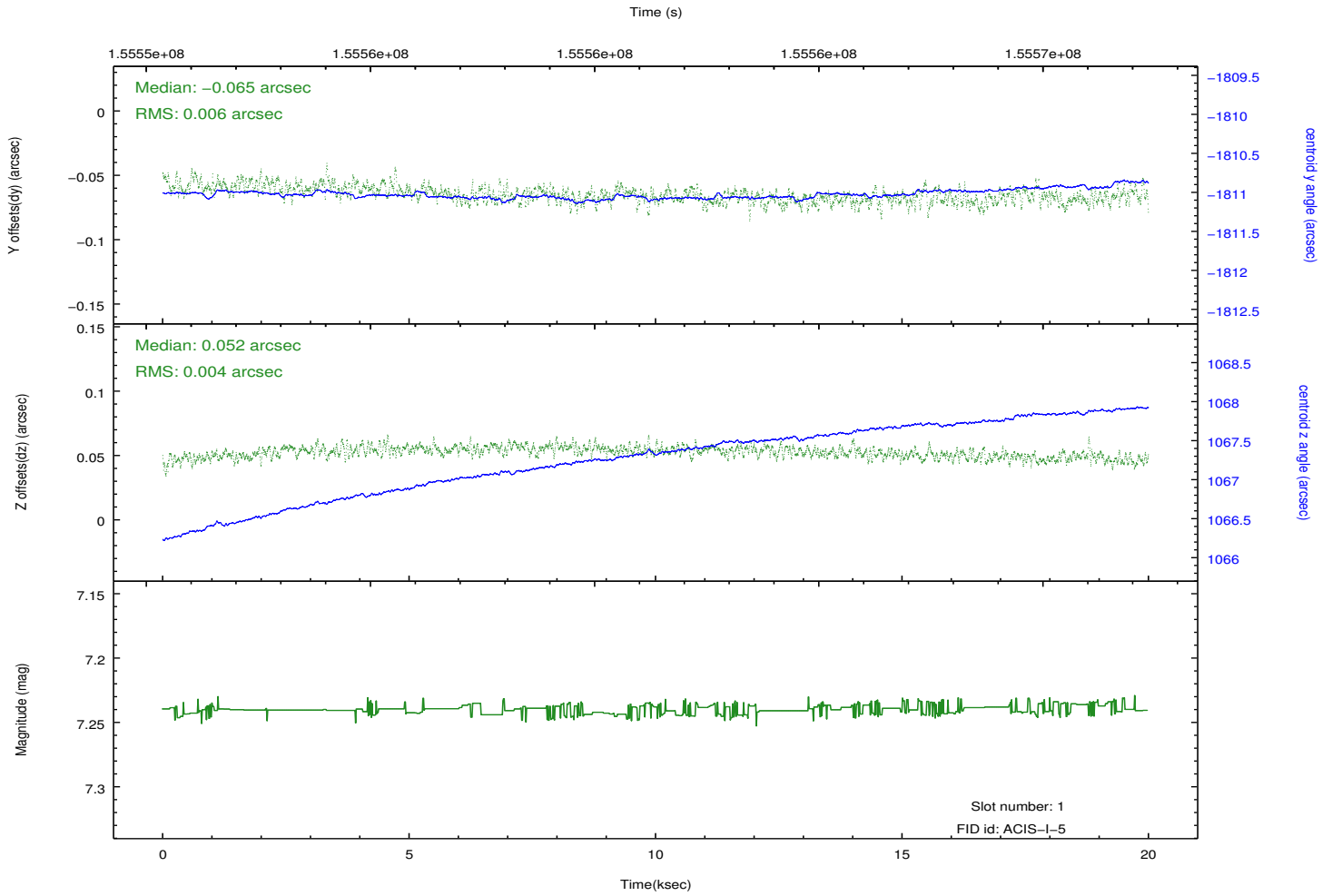
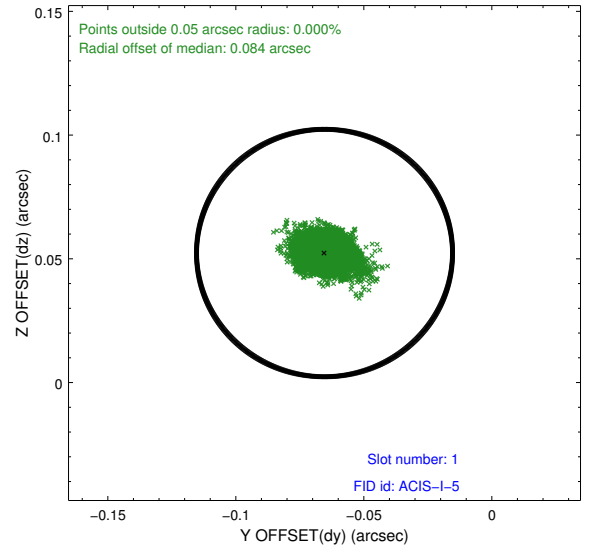
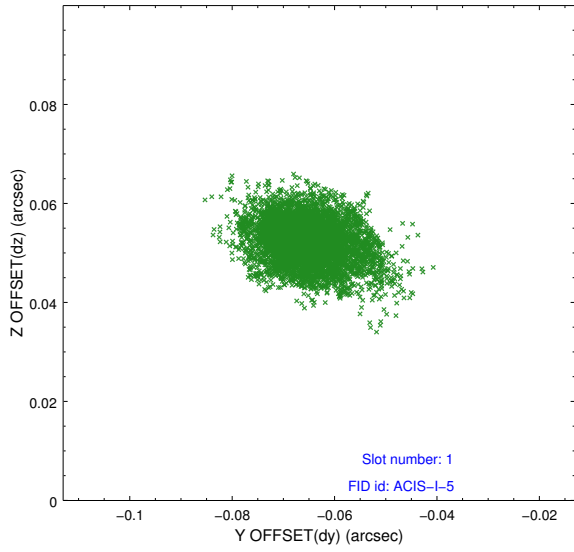


2.5 FID Slots

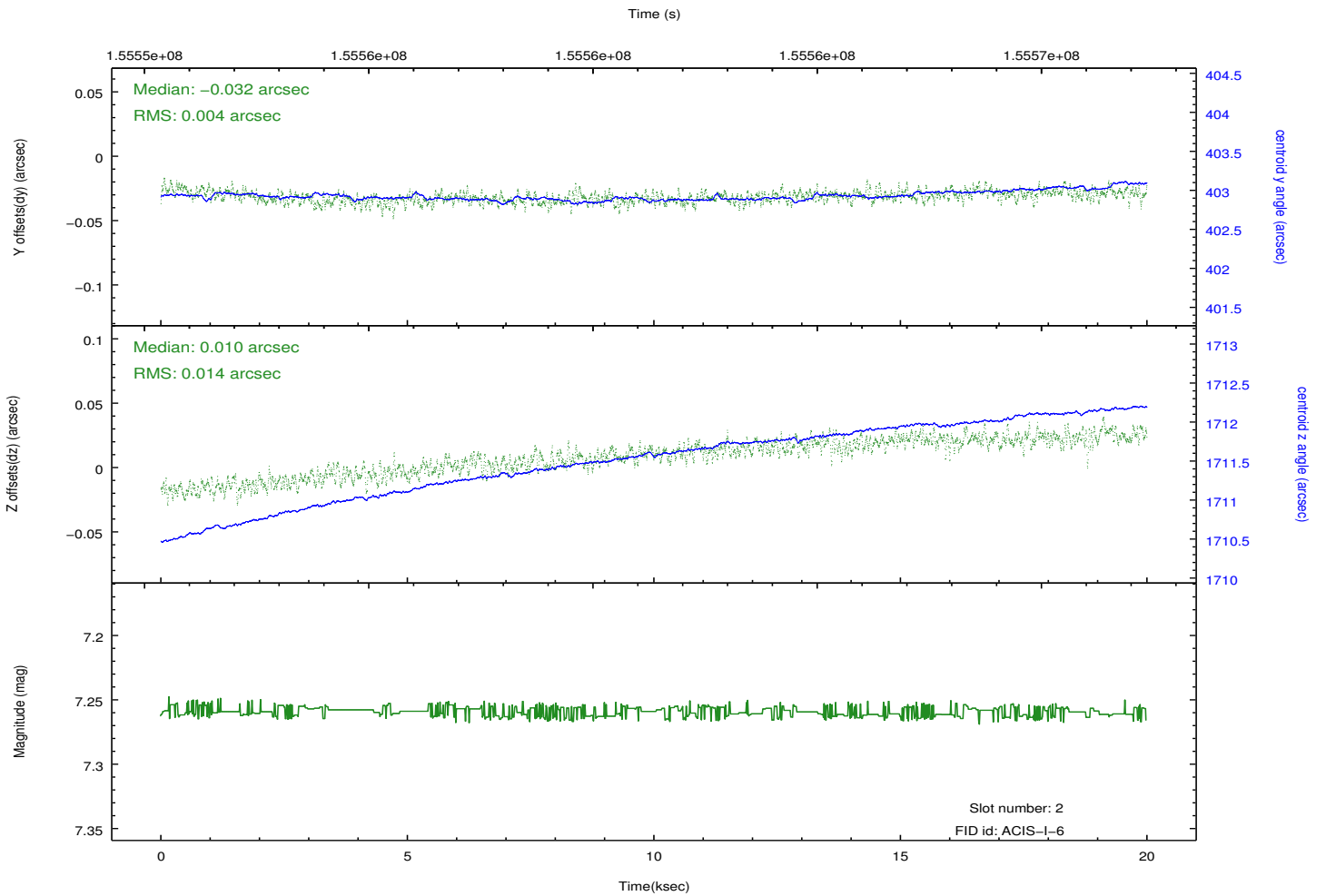
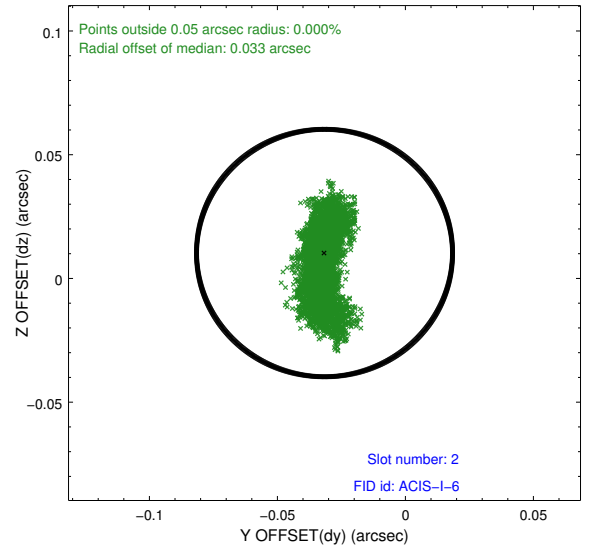
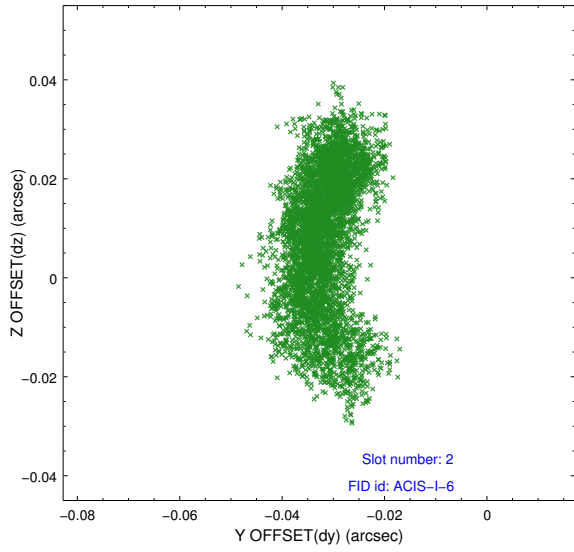
2.5.1 Slot 0



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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.564

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.