

V&V Reference Report

L2 ASCDS Version : 10

Observation 15652 - L2 Version 2
Chandra X-Ray Center

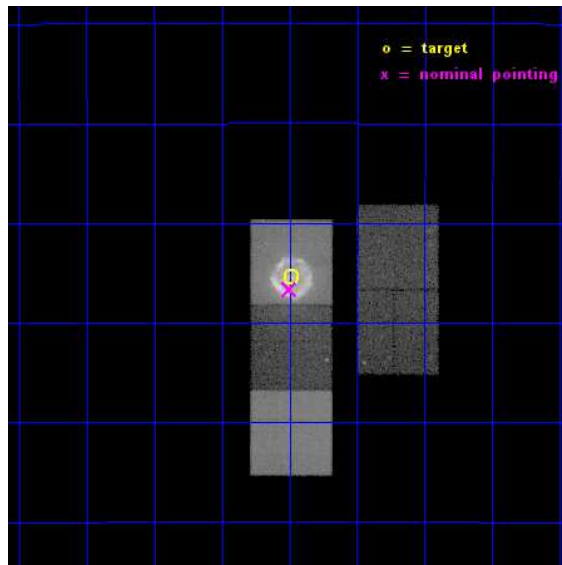
L2 Processing Date : Dec 6 2014

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1 Front

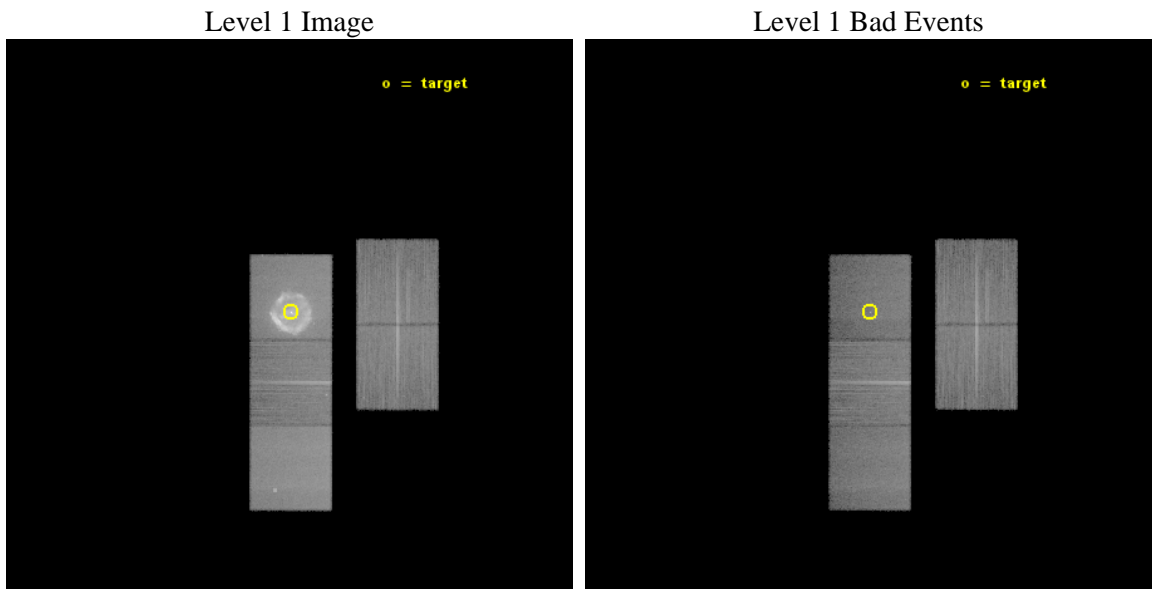
seq_num	501956	Sequence number
obs_id	15652	Observation id
title	G11.2-0.3: Core-Collapse Supernova Progenitors, Cosmic Rays, and Pulsar-Wind Nebulae	Proposal title
observer	Dr. Stephen Reynolds	Principal investigator
object	G11.2-0.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.8725	Observer's specified target RA [deg]
dec_targ	-19.423611	Observer's specified target Dec [deg]
ra_nom	272.87520038037	Nominal RA [deg]
dec_nom	-19.444435659609	Nominal Dec [deg]
roll_nom	270.05757630602	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48567.219701052	Sum of GTIs [s]
livetime	47932.65322099	Livetime [s]
ontime2	48560.773530424	Sum of GTIs [s]
ontime3	48563.955600619	Sum of GTIs [s]
ontime5	48567.178661048	Sum of GTIs [s]
ontime6	48567.137621045	Sum of GTIs [s]
ontime7	48567.219701052	Sum of GTIs [s]
l2events	588702	Number of level 2 events



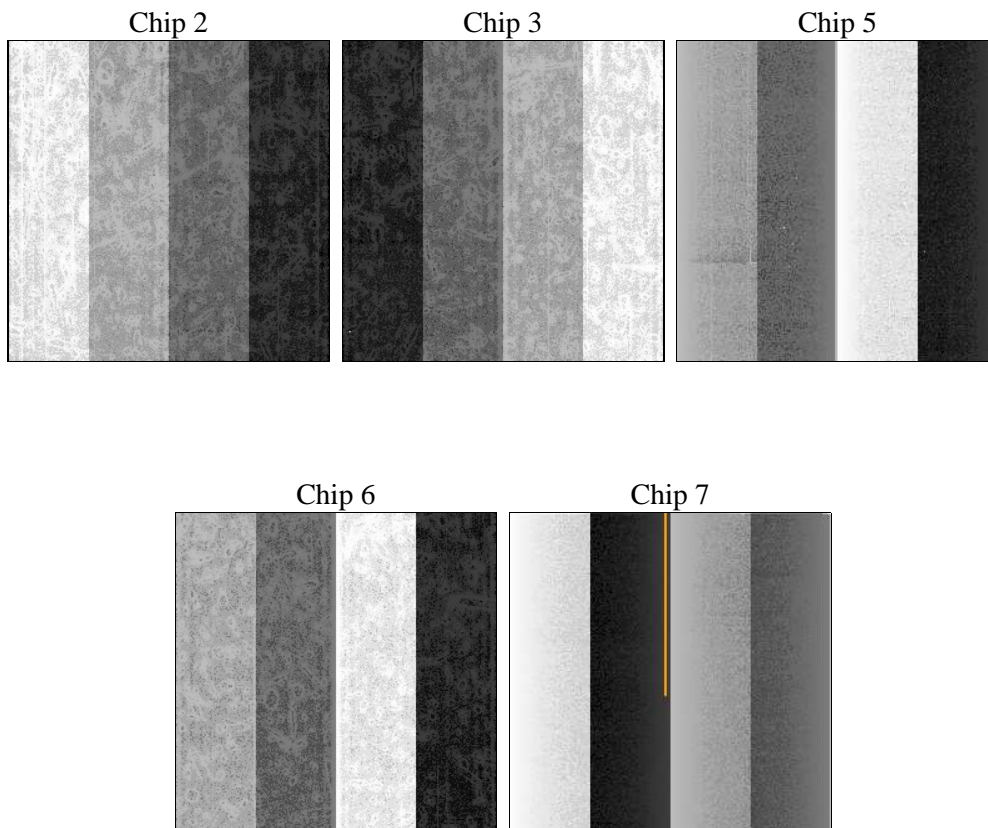
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	48500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	48567.219701052	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	48560.773530424	Sum of GTIs [s]
date	2014-12-06T10:41:11	Date and time of file creation	ontime3	48563.955600619	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	48567.178661048	Sum of GTIs [s]
			ontime6	48567.137621045	Sum of GTIs [s]
			ontime7	48567.219701052	Sum of GTIs [s]
			l1events	1428724	Number of level 1 events

2.1.4 Events

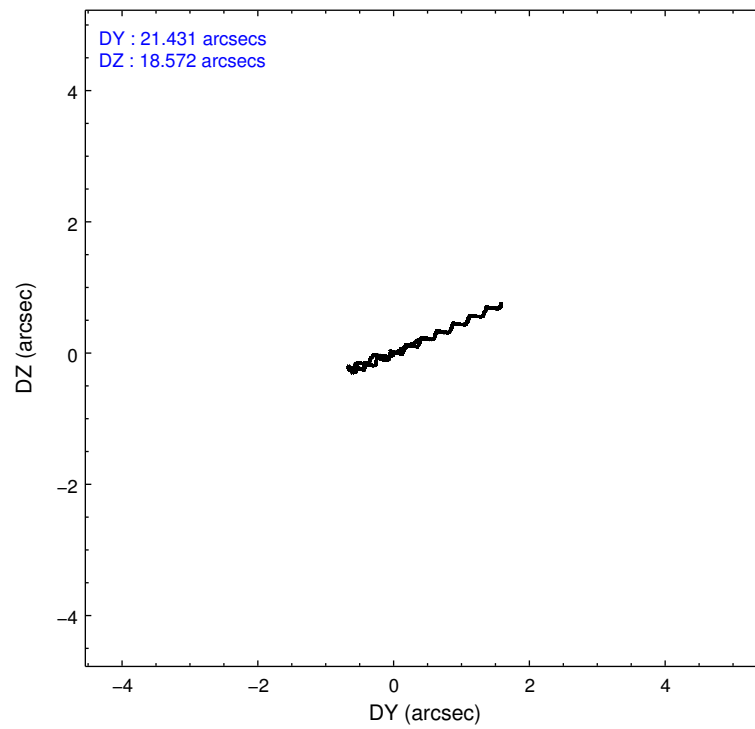
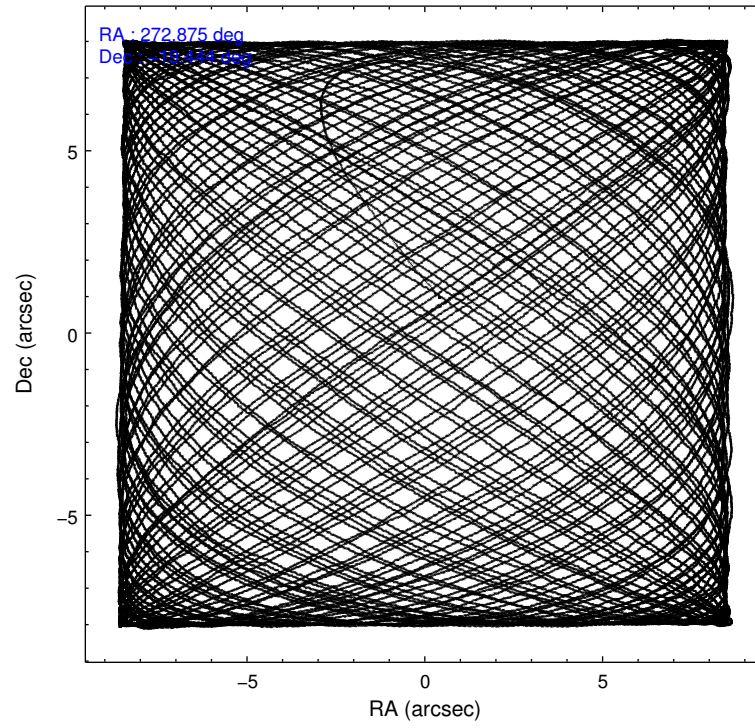
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	209576	198651	315806	212413	492278
rejected events	182008	169795	154912	177932	134804
rejected %	86%	85%	49%	83%	27%

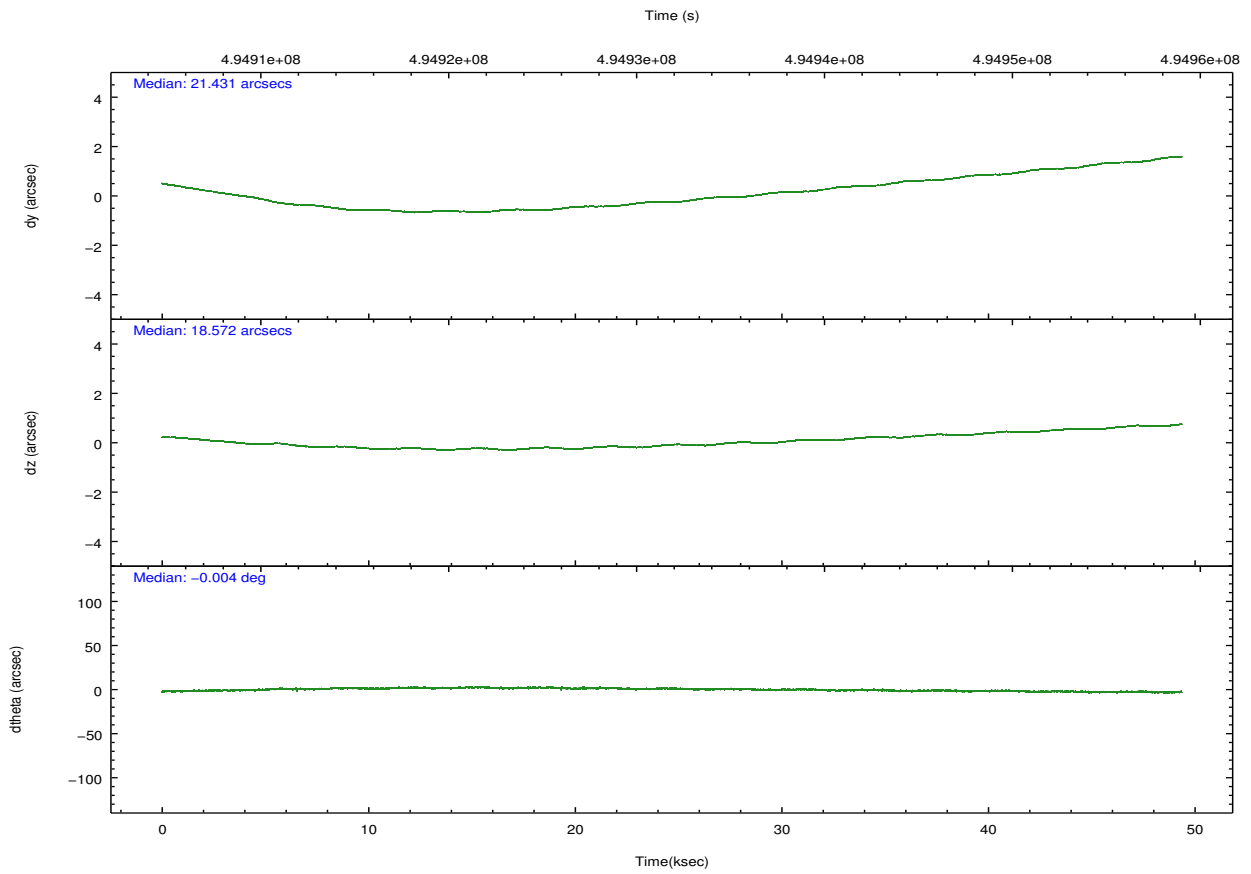
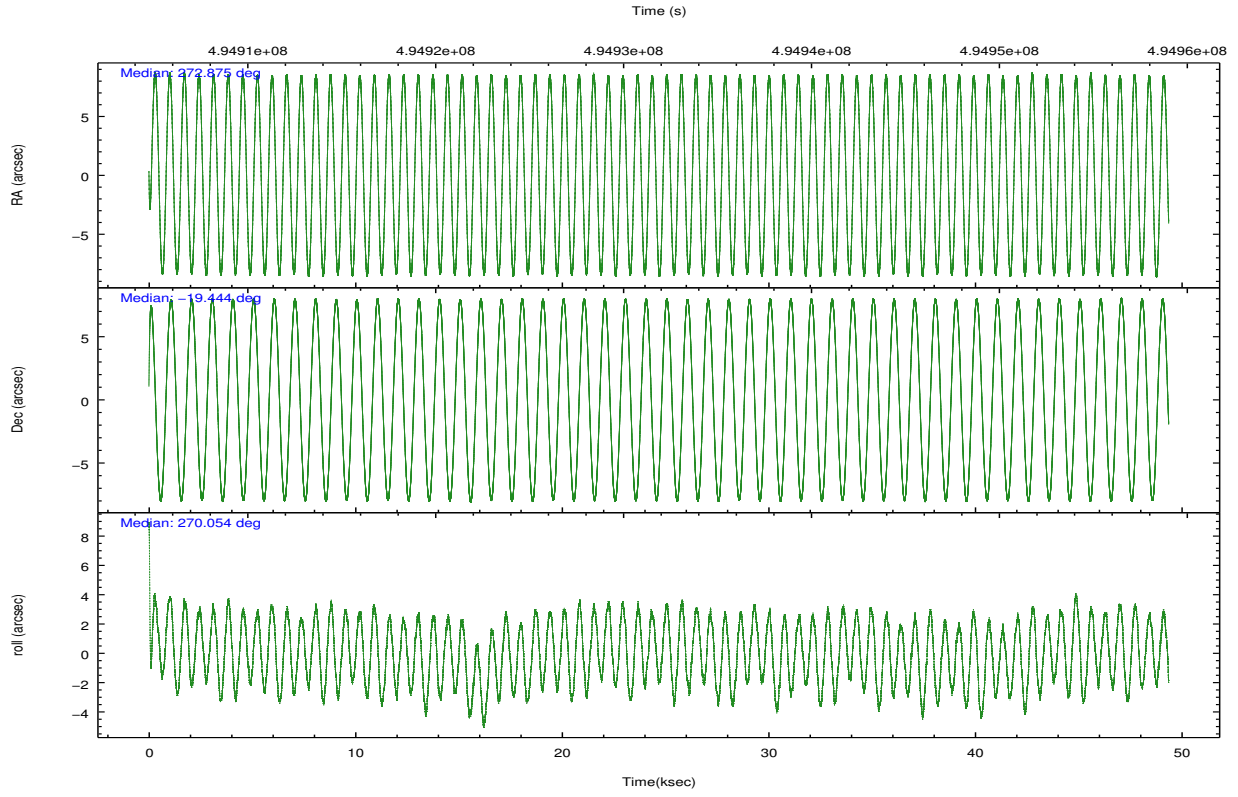
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	11851	12938	11840	16234	70293
	5%	6%	3%	7%	14%
grade 1 events	130	133	618	121	380
	0%	0%	0%	0%	0%
grade 2 events	6201	5742	50473	6793	89436
	2%	2%	15%	3%	18%
grade 3 events	2444	2683	6454	2816	38563
	1%	1%	2%	1%	7%
grade 4 events	2571	2765	6313	2790	37886
	1%	1%	1%	1%	7%
grade 5 events	7766	9556	25033	9570	27552
	3%	4%	7%	4%	5%
grade 6 events	4505	4730	85829	5854	121344
	2%	2%	27%	2%	24%
grade 7 events	174108	160104	129246	168235	106824
	83%	80%	40%	79%	21%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	272.860307	272.8752003803681	CCD I2 on	O2	Y
[deg] Pointing Dec	-19.420922	-19.44443565960878	CCD I3 on	O1	Y
[deg] Pointing Roll	269.895952	270.0575763060223	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	494908052.184000	494906460.14557	CCD S5 on	N	N
Observation start date	2013-09-07T02:26:25	2013-09-07T02:01:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	494956552.184000	494957456.97335	On-chip summing requested	N	N
Observation end date	2013-09-07T15:54:45	2013-09-07T16:10:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





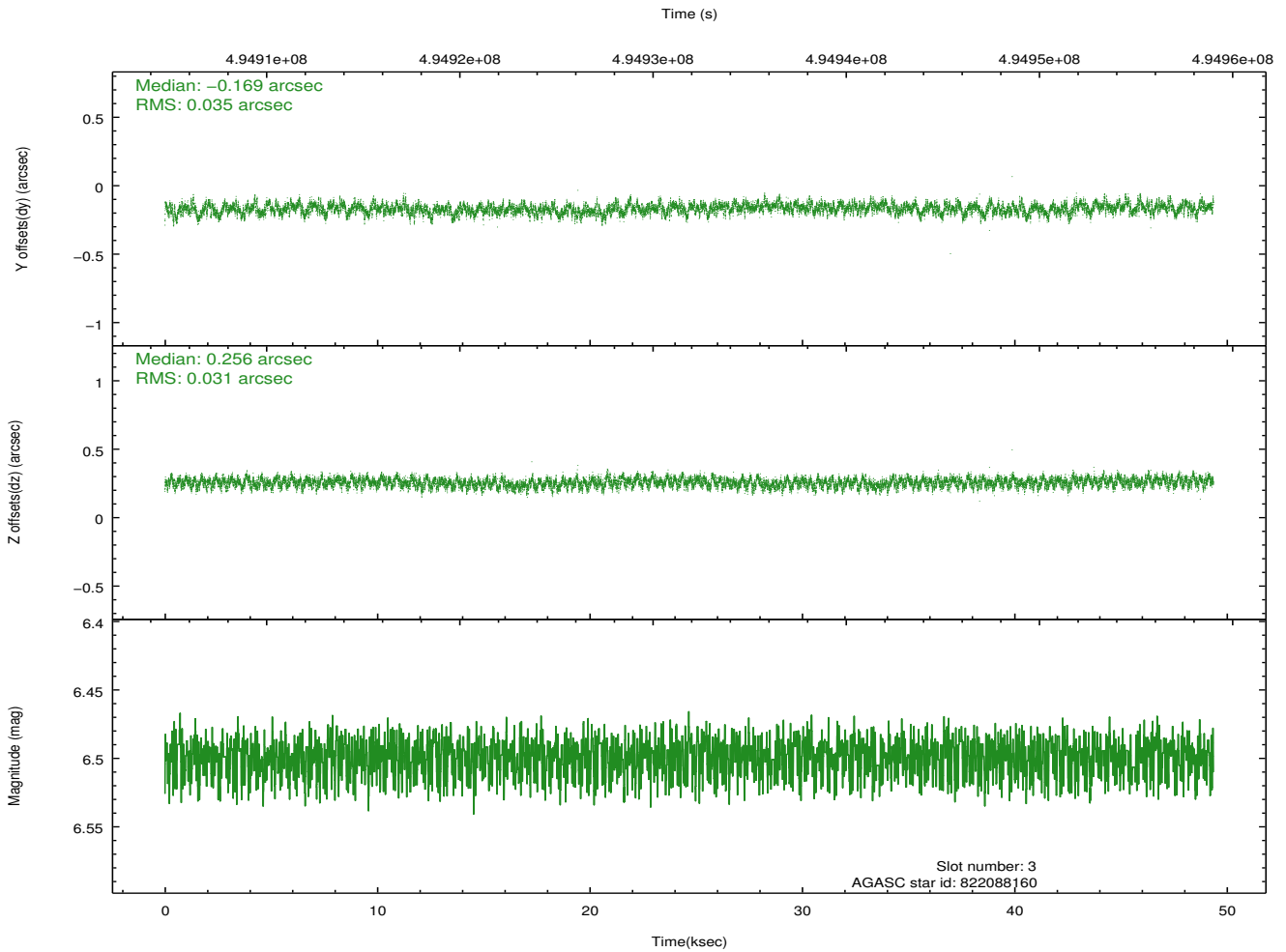
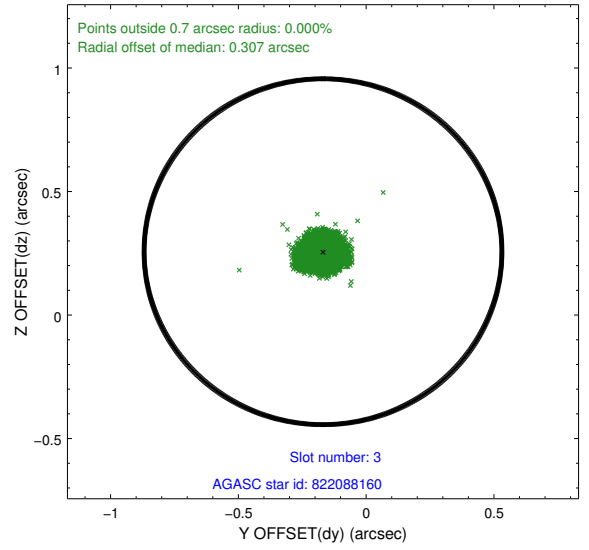
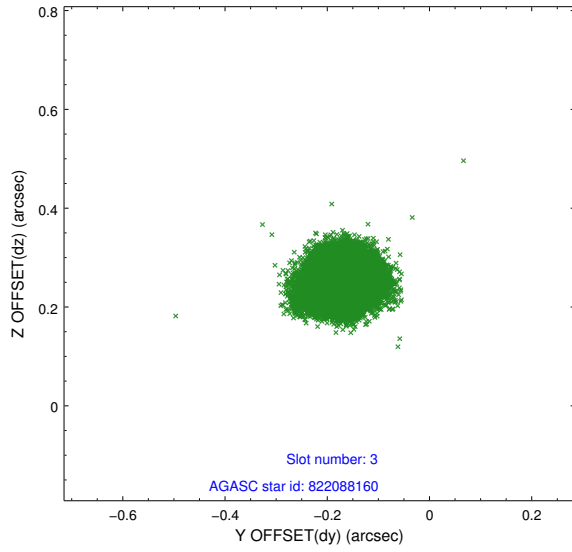
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	12040	-0.117	-0.056	0.011	0.019	0.000000	0.000000	-774.85	-1740.17
1	FID		ACIS-S-4	7.04	12040	0.260	0.072	0.015	0.047	0.000000	0.000000	2138.83	168.43
2	FID		ACIS-S-5	7.07	12041	-0.174	-0.006	0.016	0.042	0.000000	0.000000	-1827.76	162.03
3	GUIDE	used	822088160	6.50	24082	-0.169	0.256	0.049	0.078	272.729284	-18.869551	-1983.67	-449.78
4	GUIDE	used	822094768	9.21	24061	-0.157	-0.063	0.090	0.145	273.292799	-19.669391	893.79	1467.79
5	GUIDE	used	822098064	8.25	24065	-0.109	-0.062	0.084	0.135	273.233974	-19.745214	1166.82	1268.36
6	GUIDE	used	822102416	7.54	24074	0.433	-0.220	0.085	0.174	272.173216	-20.087156	2408.49	-2318.82
7	GUIDE	used	822091704	8.09	24077	0.005	0.089	0.076	0.121	272.220028	-18.943658	-1709.57	-2183.41

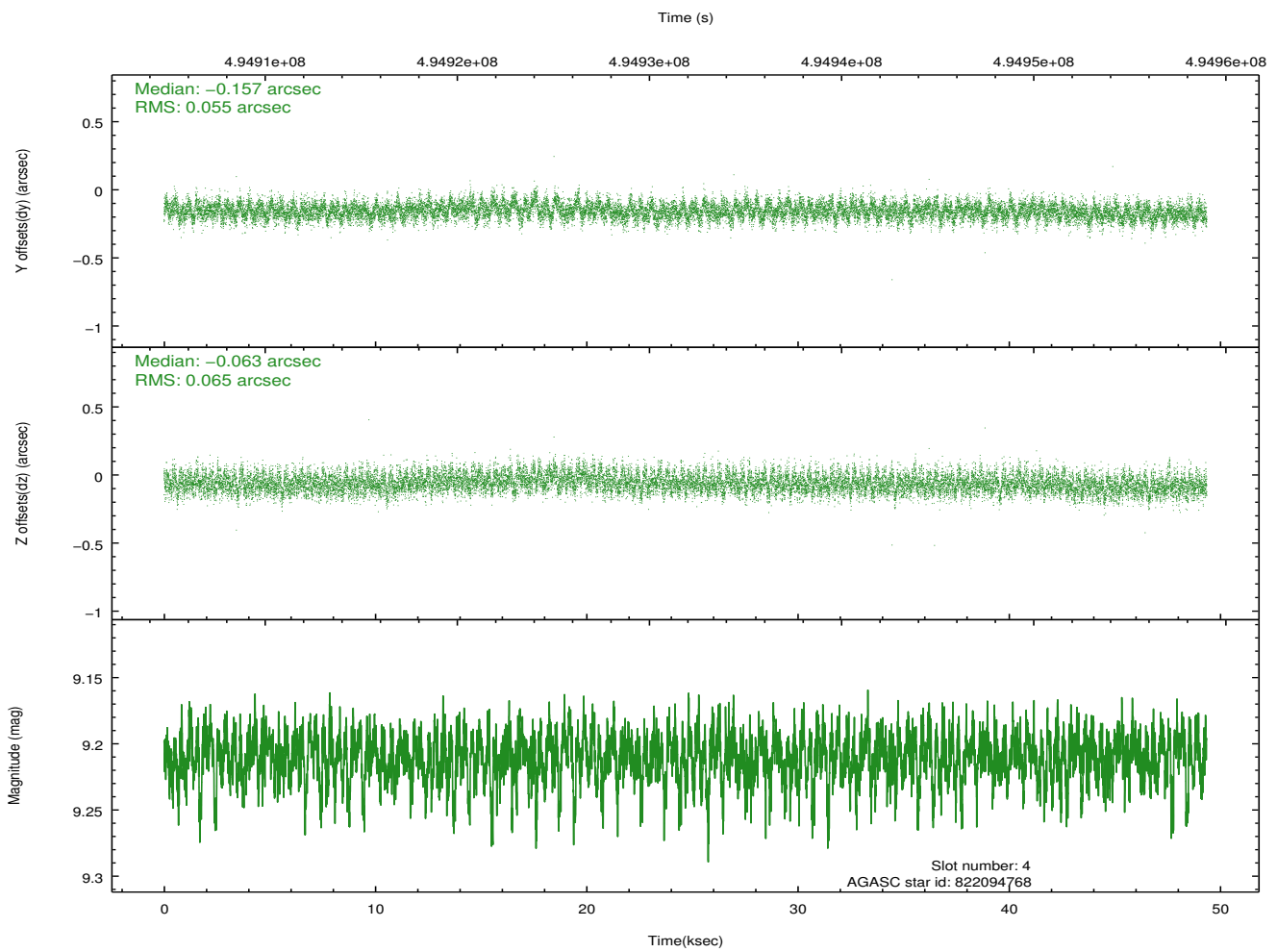
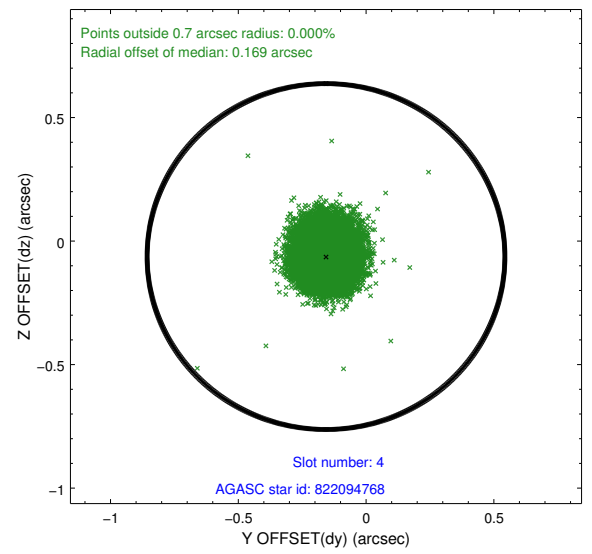
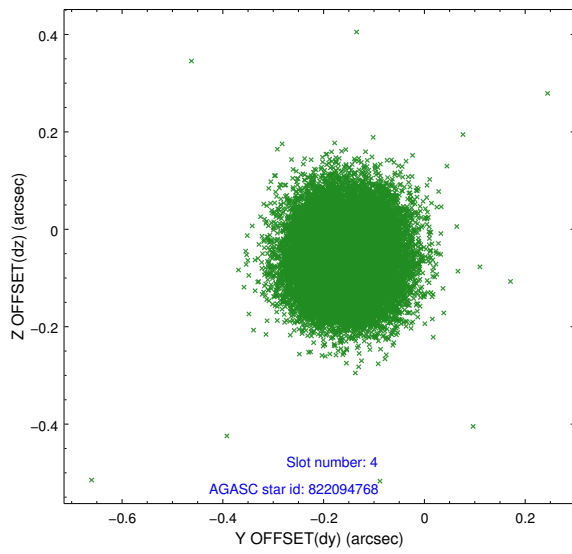
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2.4 Star Slots

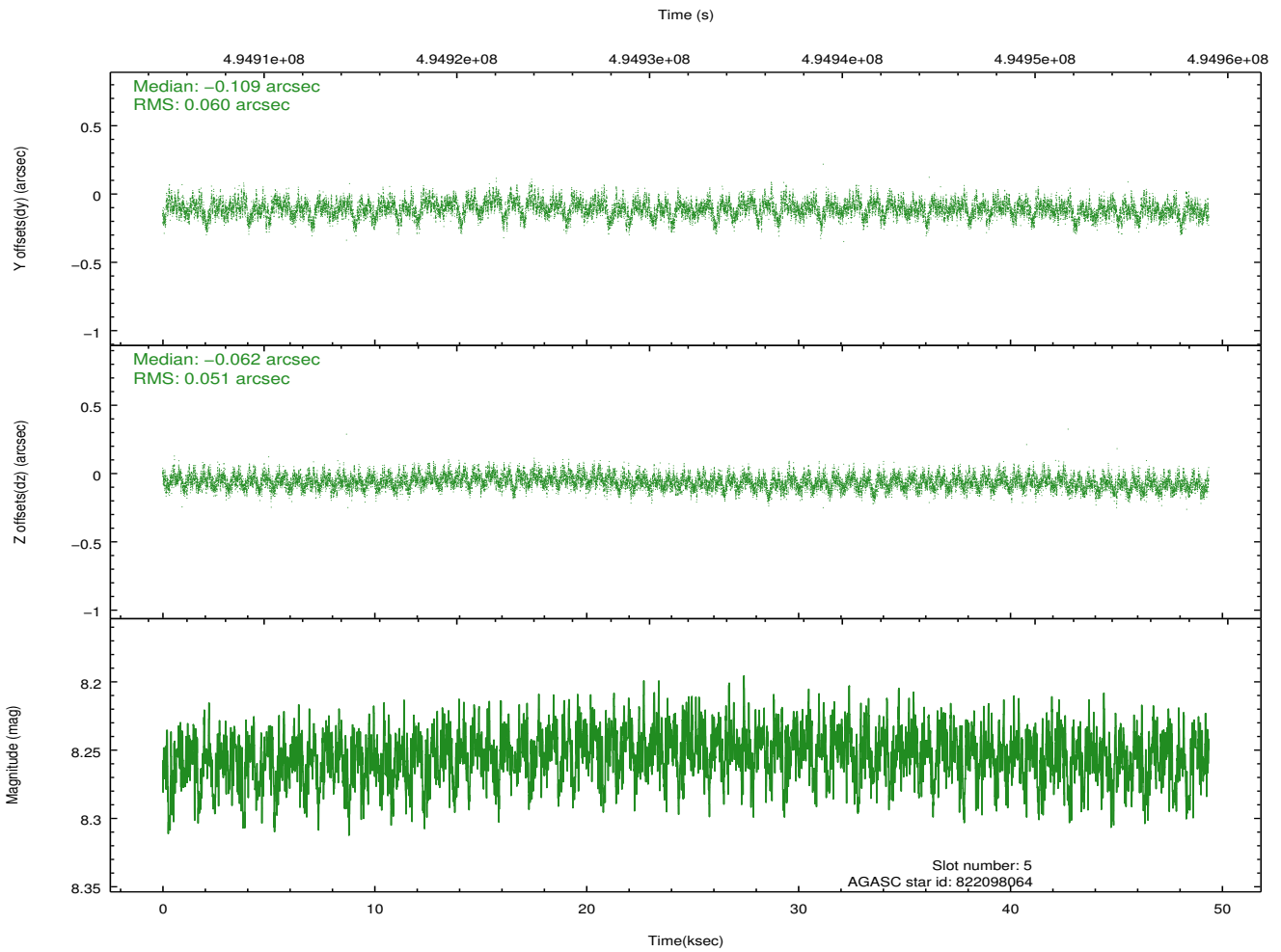
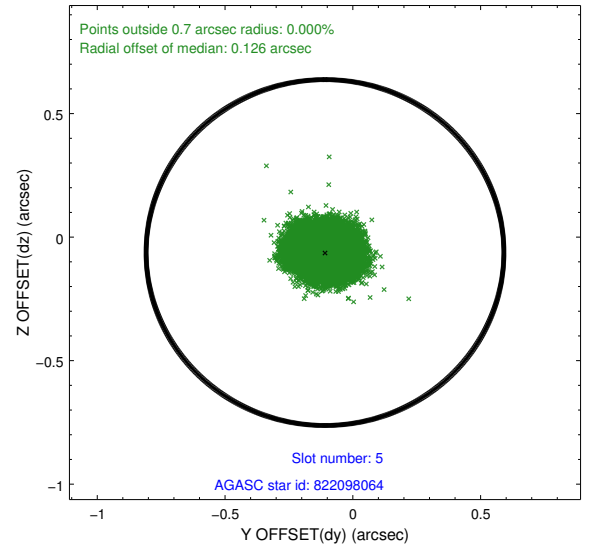
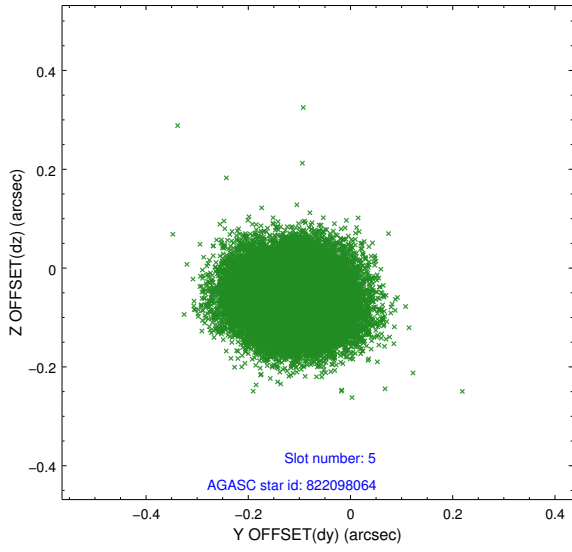
2.4.1 Slot 3



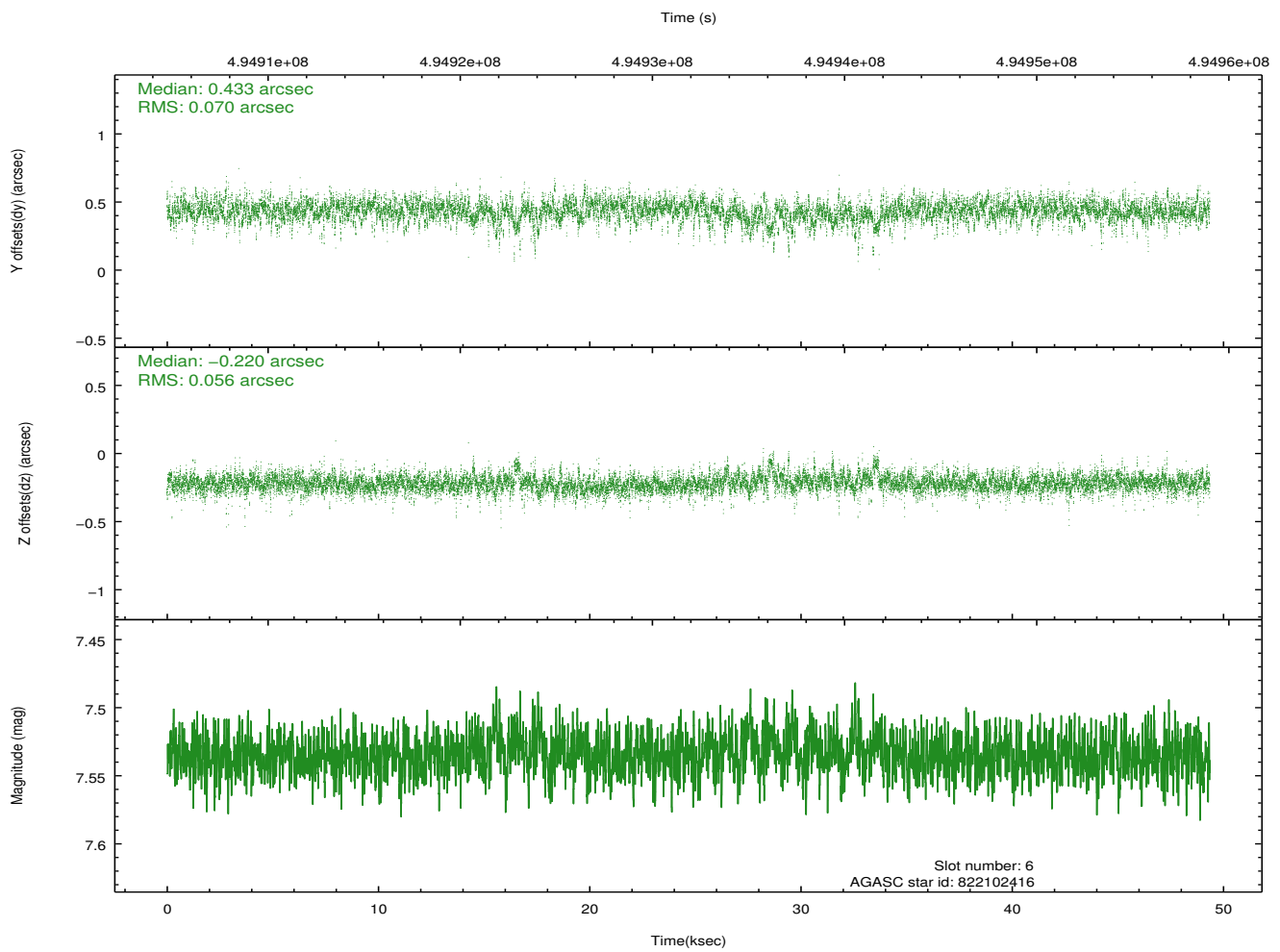
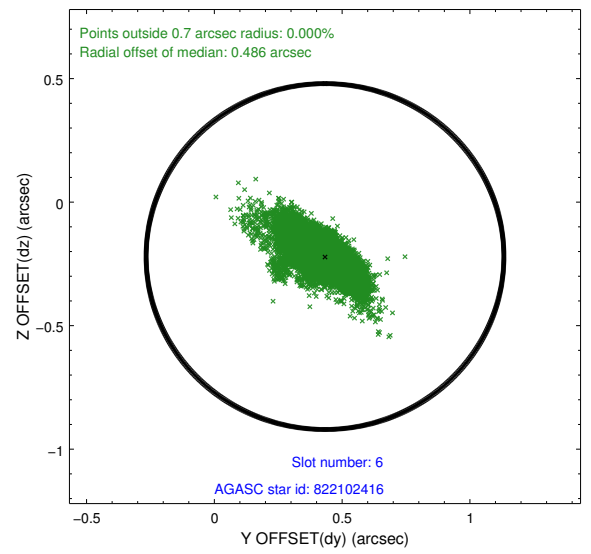
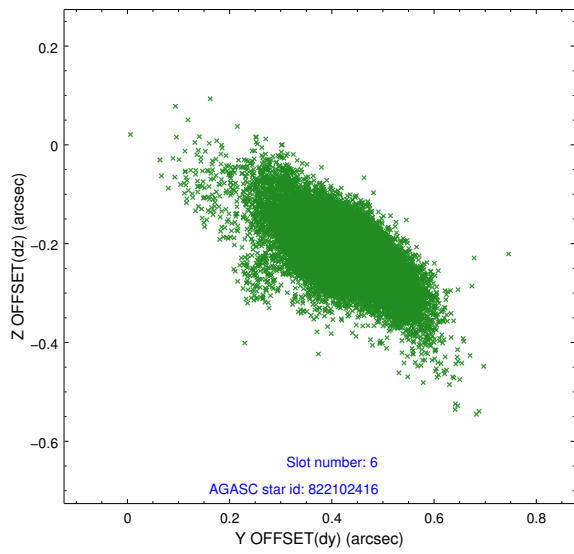
2.4.2 Slot 4



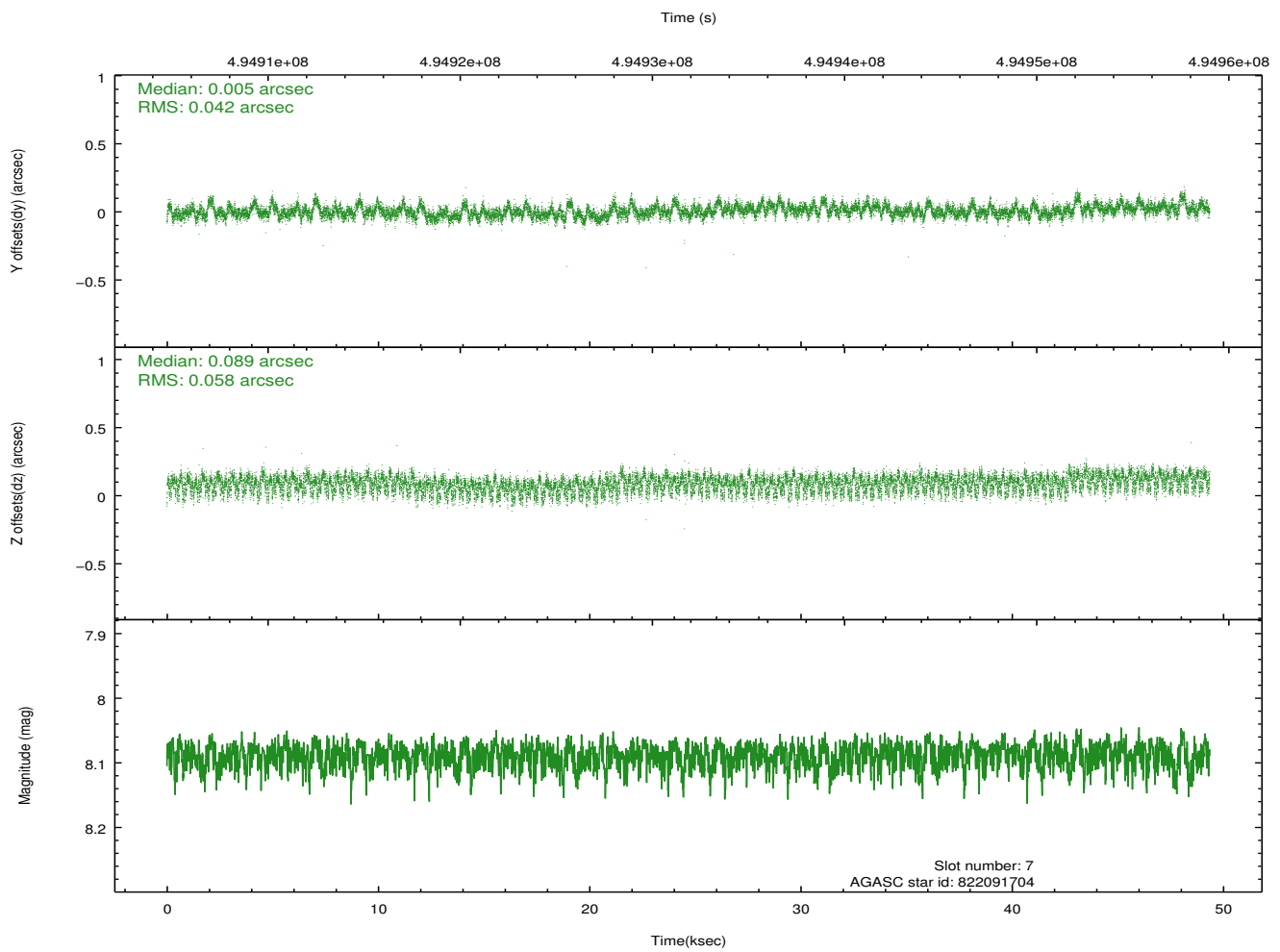
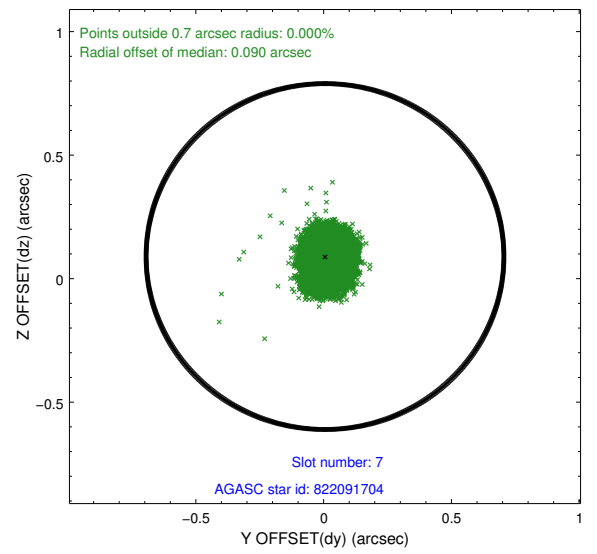
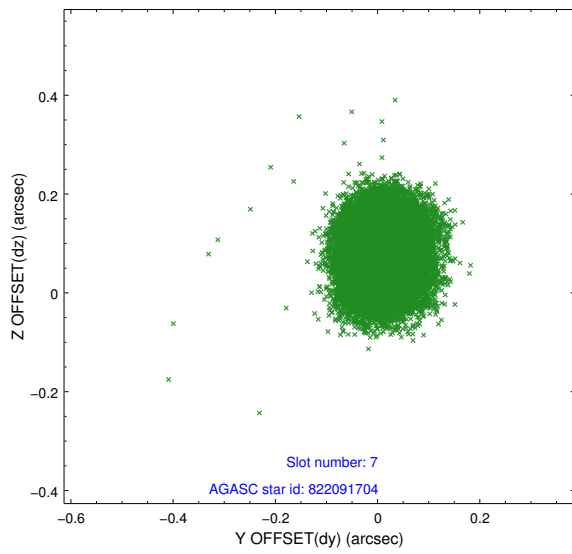
2.4.3 Slot 5



2.4.4 Slot 6

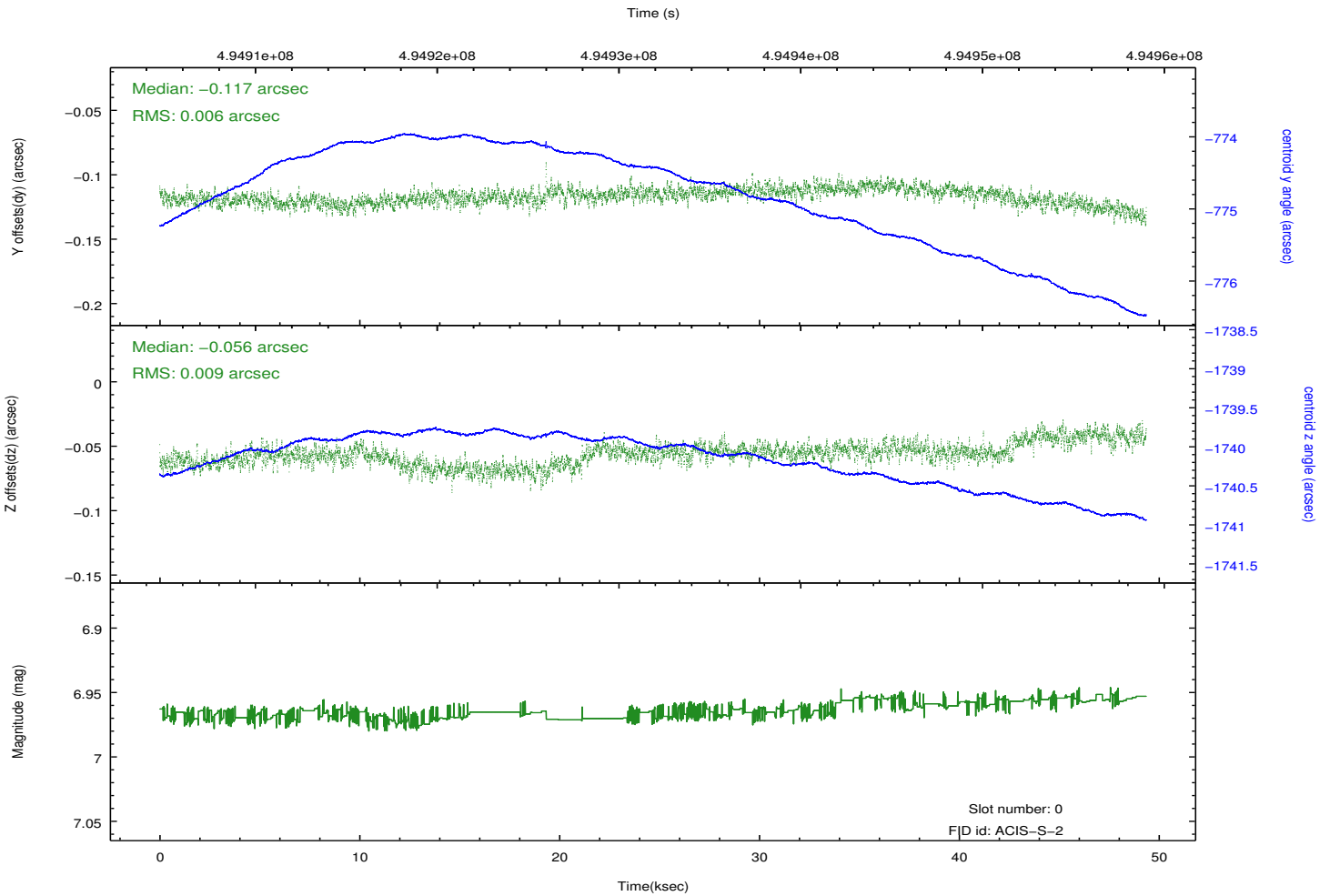
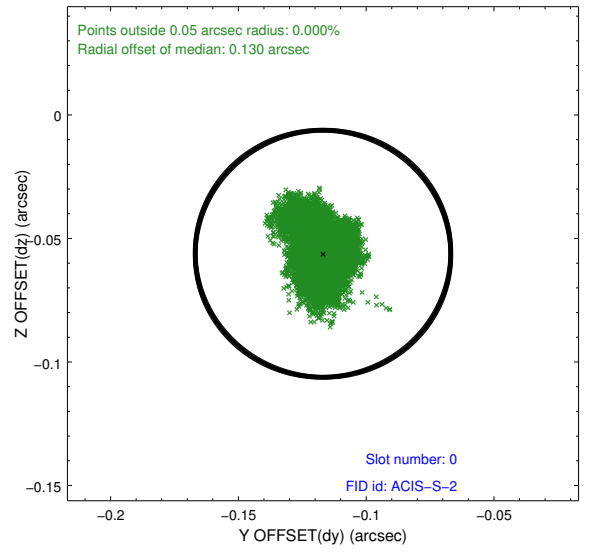
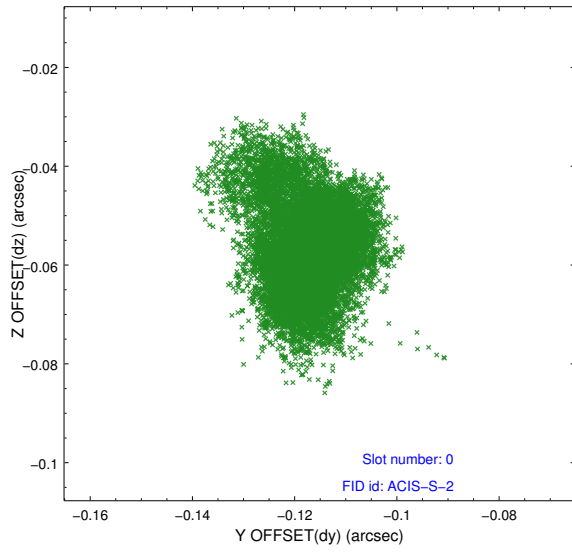


2.4.5 Slot 7

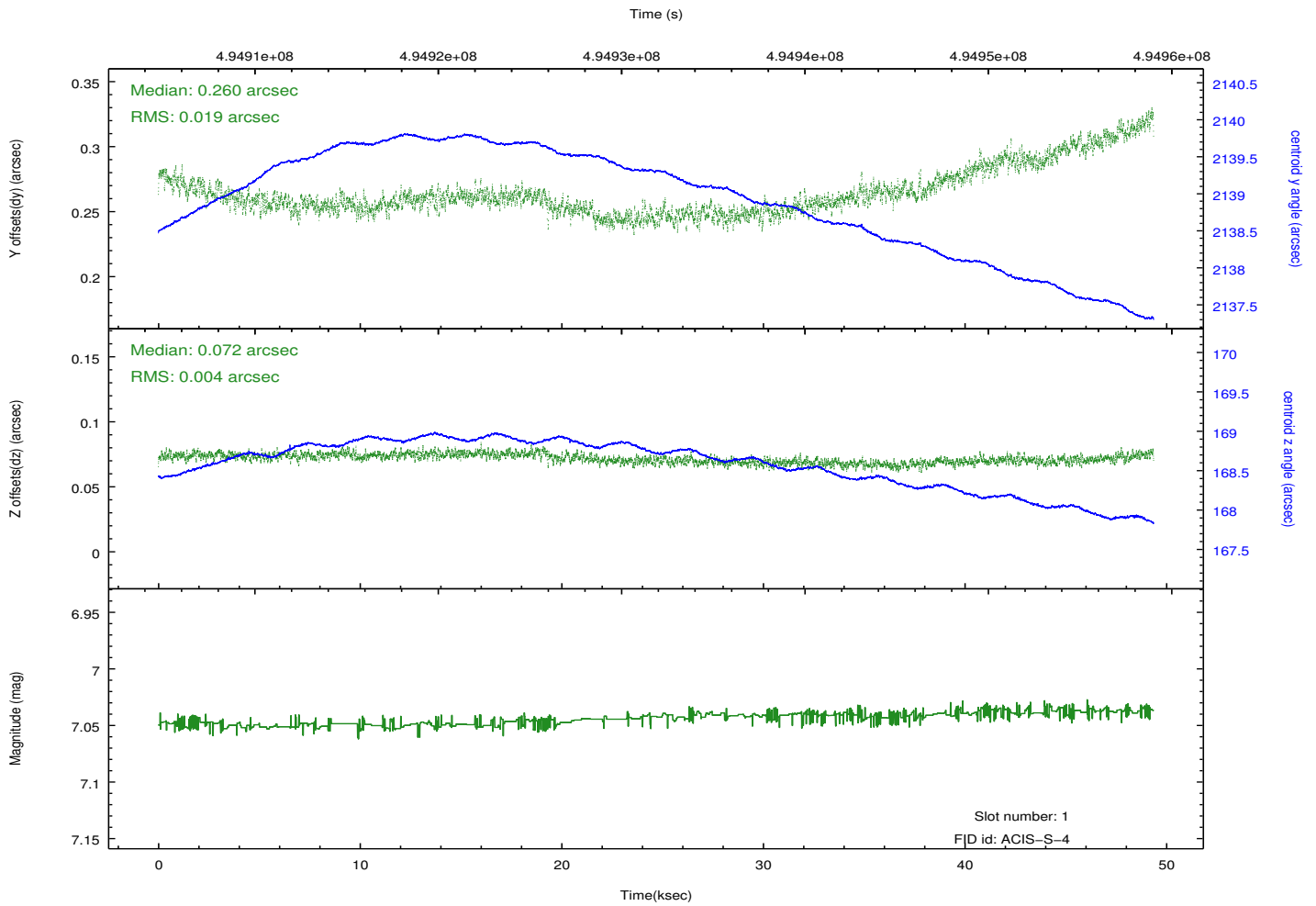
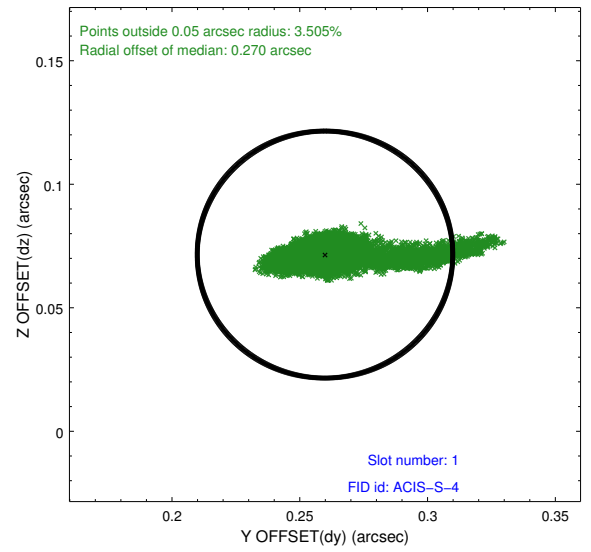
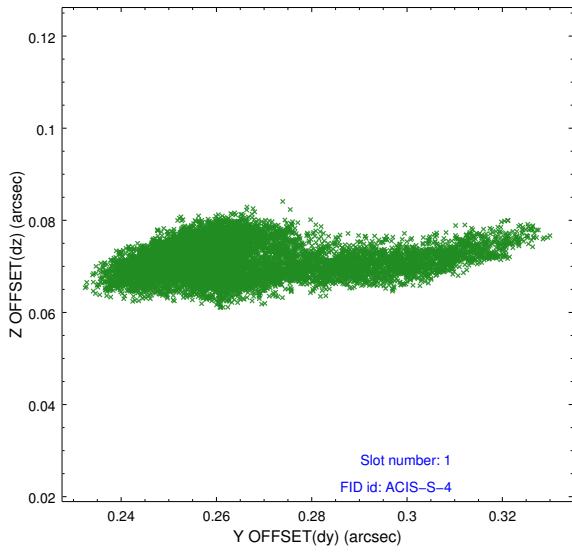


2.5 FID Slots

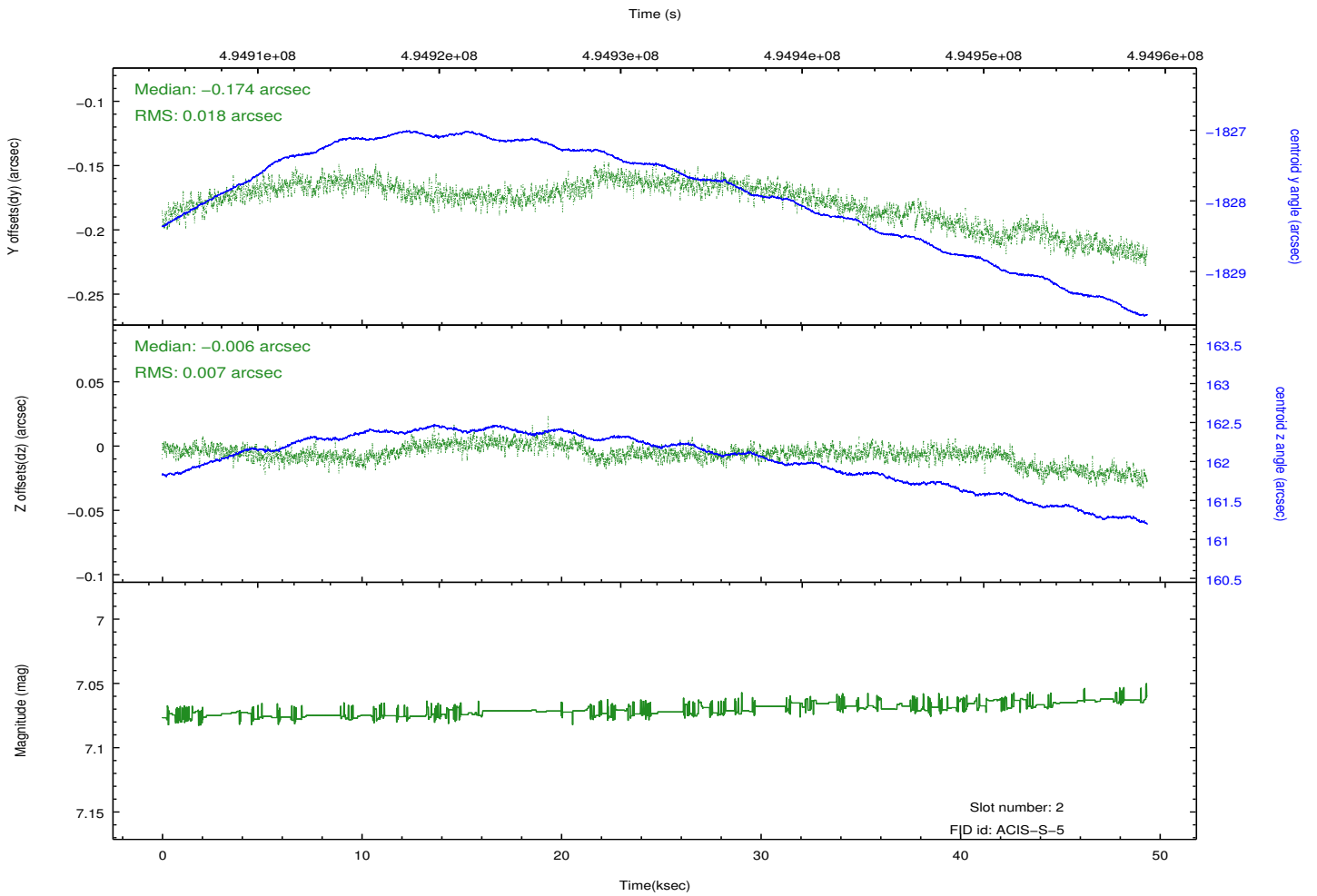
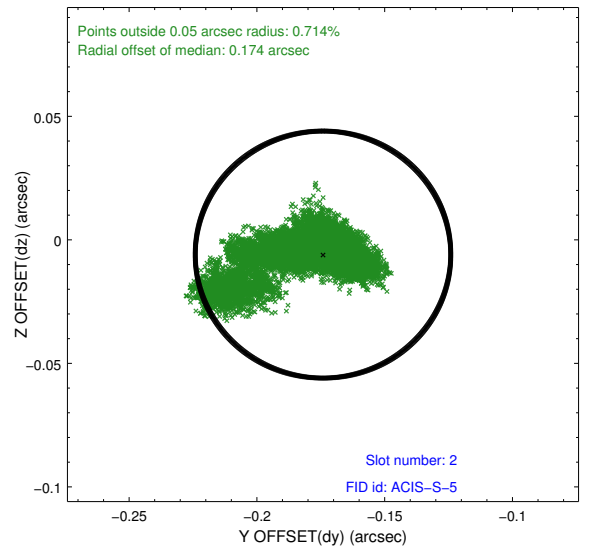
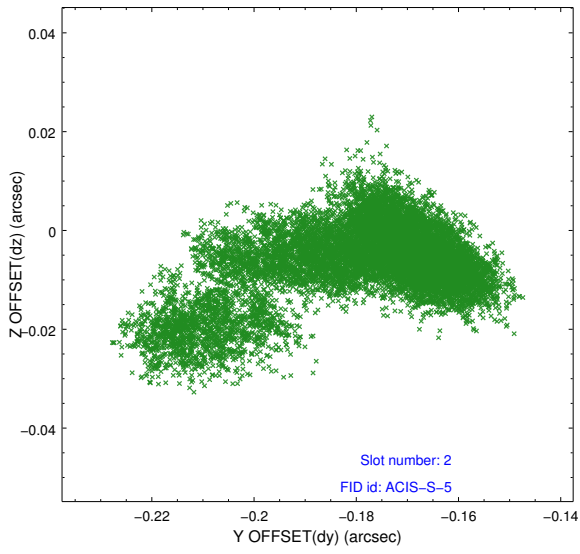
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.567219701052

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.