

V&V Reference Report

L2 ASCDS Version : 10

Observation 14951 - L2 Version 2
Chandra X-Ray Center

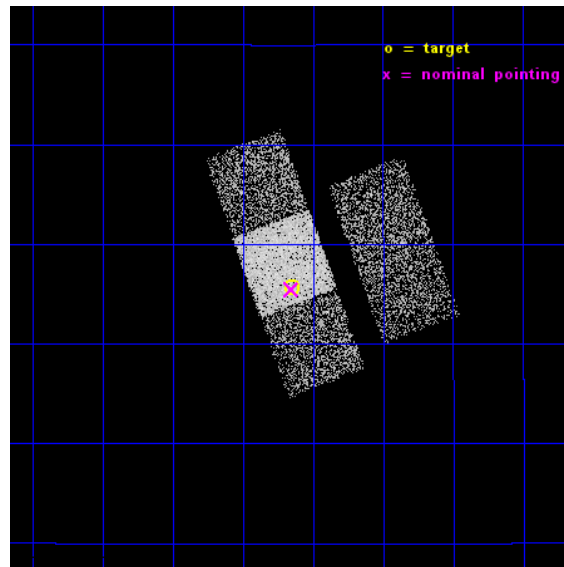
L2 Processing Date : Dec 3 2014

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1 Front

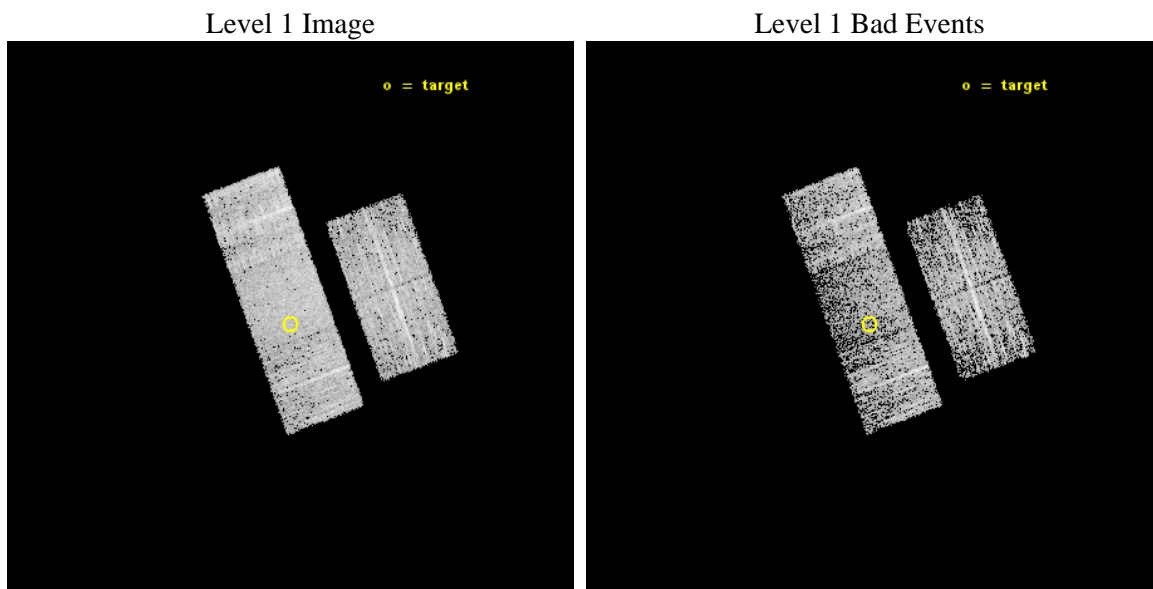
seq_num	702760	Sequence number
obs_id	14951	Observation id
title	Understanding the Nature of PHL 1811 Analogs	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0825+1155	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.28625	Observer's specified target RA [deg]
dec_targ	11.92675	Observer's specified target Dec [deg]
ra_nom	126.28819933508	Nominal RA [deg]
dec_nom	11.924445061129	Nominal Dec [deg]
roll_nom	249.72827671276	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5170.8000397682	Sum of GTIs [s]
livetime	5103.239730561	Livetime [s]
ontime2	5170.8000397682	Sum of GTIs [s]
ontime3	5170.8000397682	Sum of GTIs [s]
ontime6	5170.8000397682	Sum of GTIs [s]
ontime7	5170.8000397682	Sum of GTIs [s]
ontime8	5164.5180791616	Sum of GTIs [s]
l2events	20754	Number of level 2 events



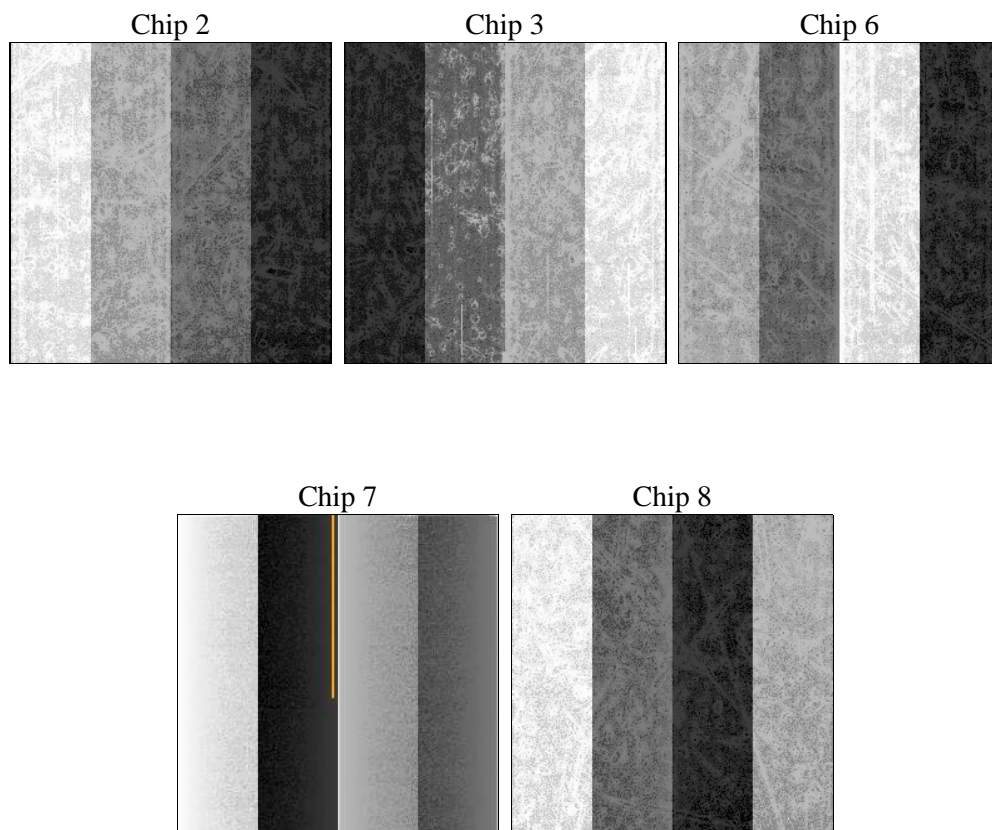
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5170.8000397682	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	5170.8000397682	Sum of GTIs [s]
date	2014-12-03T16:38:18	Date and time of file creation	ontime3	5170.8000397682	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5170.8000397682	Sum of GTIs [s]
			ontime7	5170.8000397682	Sum of GTIs [s]
			ontime8	5164.5180791616	Sum of GTIs [s]
			l1events	123316	Number of level 1 events

2.1.4 Events

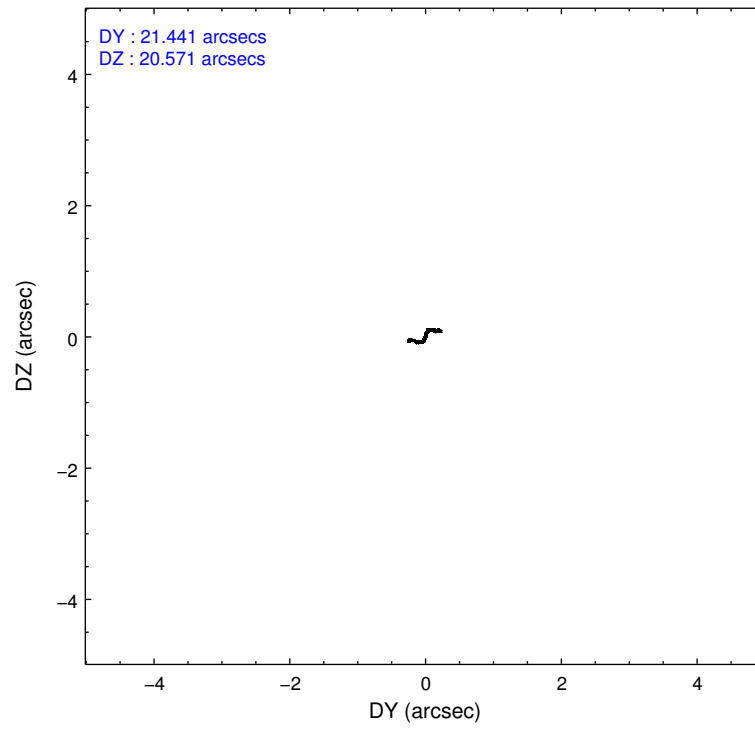
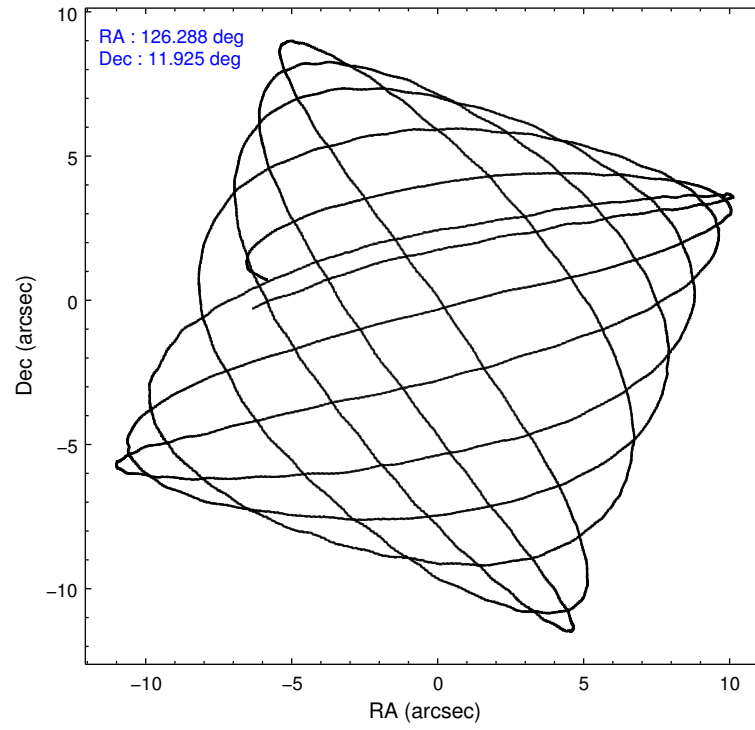
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	22706	21466	22686	25940	30518
rejected events	20224	18921	20001	13800	22496
rejected %	89%	88%	88%	53%	73%

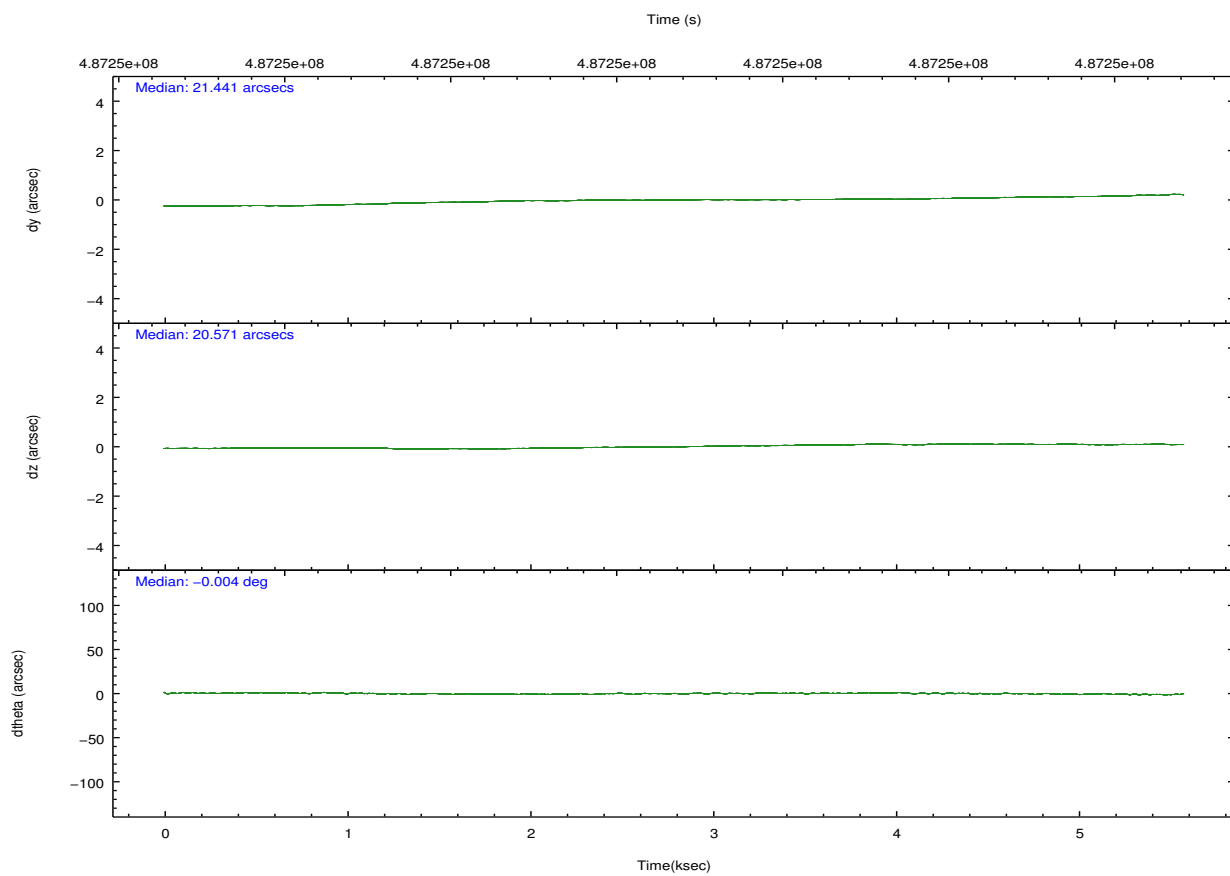
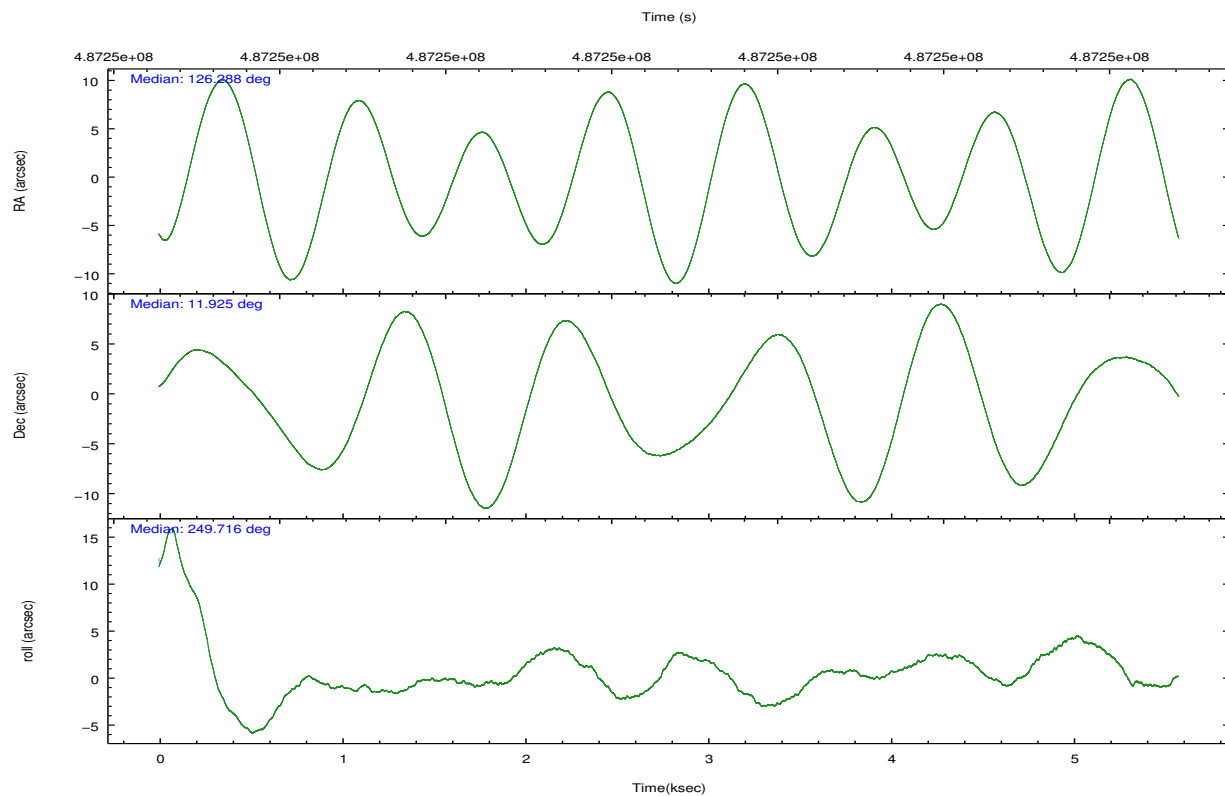
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	890	912	958	1188	2228
	3%	4%	4%	4%	7%
grade 1 events	10	11	27	37	30
	0%	0%	0%	0%	0%
grade 2 events	652	574	592	2599	1843
	2%	2%	2%	10%	6%
grade 3 events	222	265	274	1042	970
	0%	1%	1%	4%	3%
grade 4 events	240	276	259	1053	825
	1%	1%	1%	4%	2%
grade 5 events	779	985	1036	2785	1477
	3%	4%	4%	10%	4%
grade 6 events	480	518	602	6264	2158
	2%	2%	2%	24%	7%
grade 7 events	19433	17925	18938	10972	20987
	85%	83%	83%	42%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	126.283023	126.2881993350756	CCD I2 on	O1	Y
[deg] Pointing Dec	11.951220	11.92444506112916	CCD I3 on	O2	Y
[deg] Pointing Roll	249.572726	249.7282767127635	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	487246729.184000	487246024.34102	CCD S5 on	N	N
Observation start date	2013-06-10T10:17:42	2013-06-10T10:07:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	487252129.184000	487252955.9039	On-chip summing requested	N	N
Observation end date	2013-06-10T11:47:42	2013-06-10T12:02:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



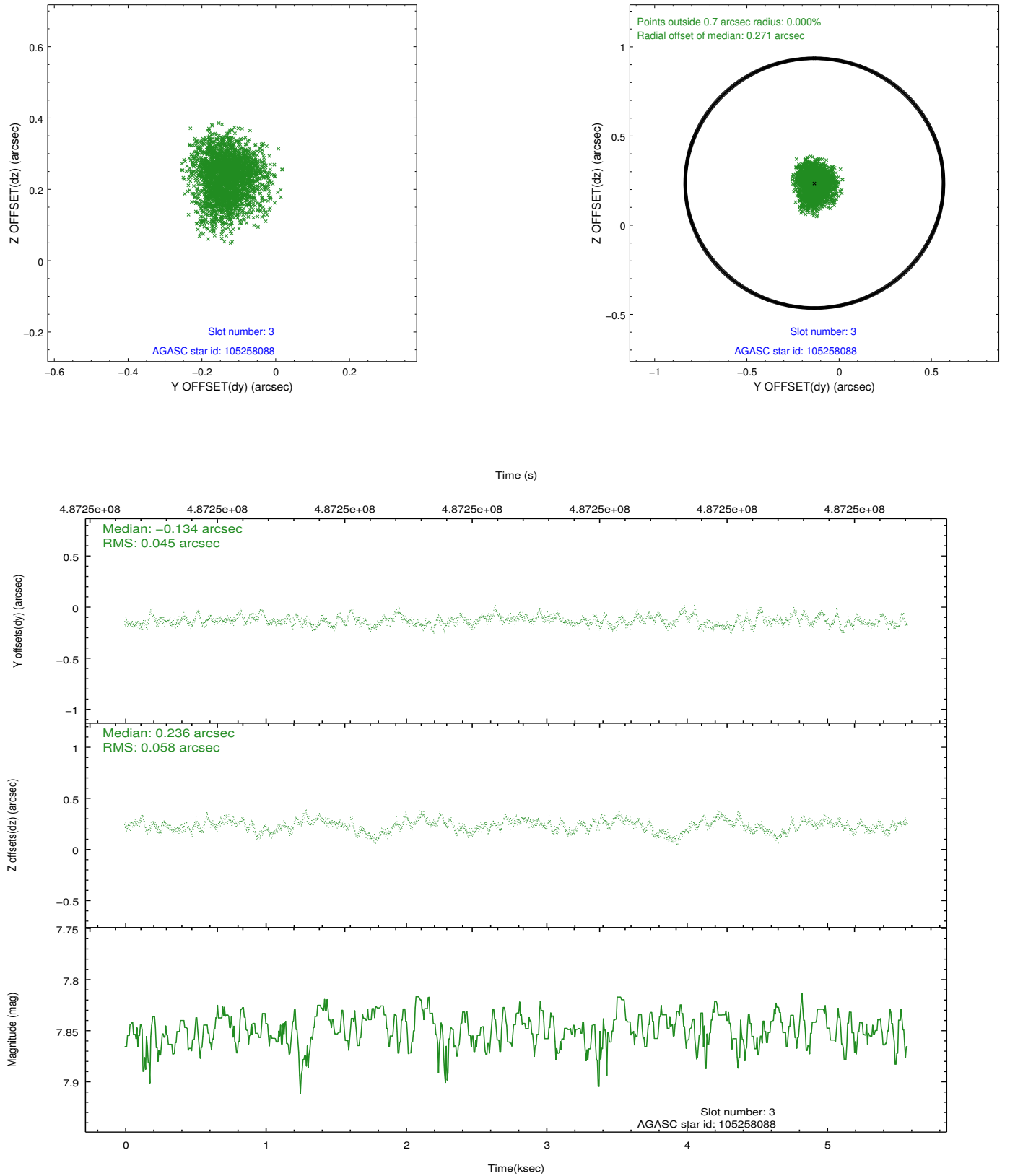


Slot Statistics

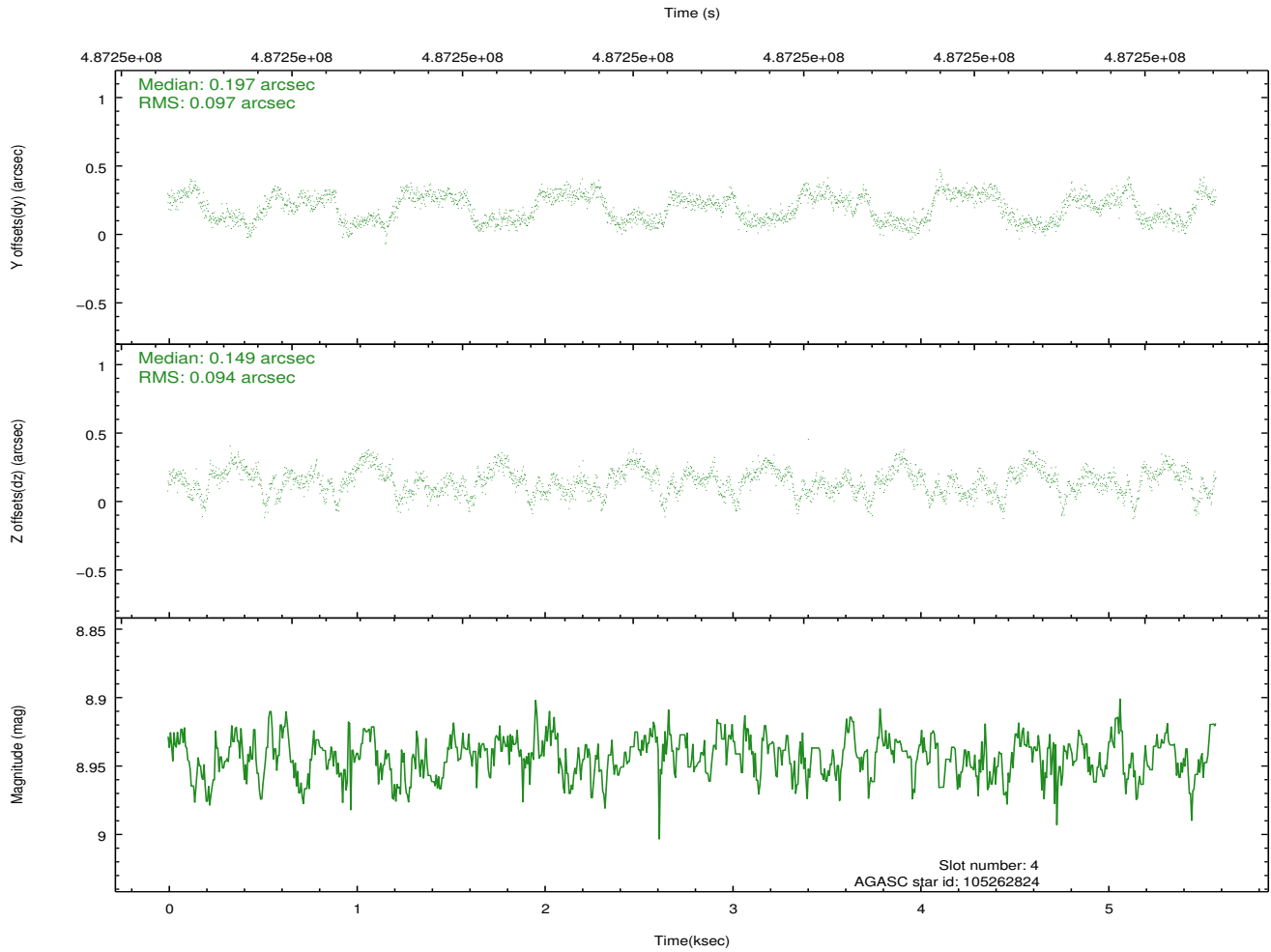
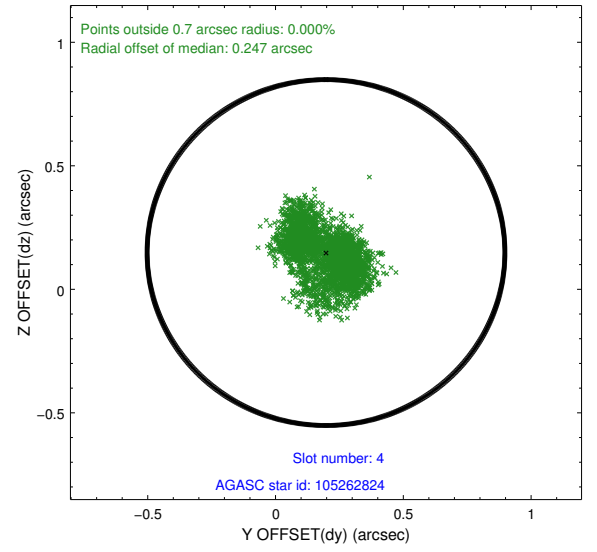
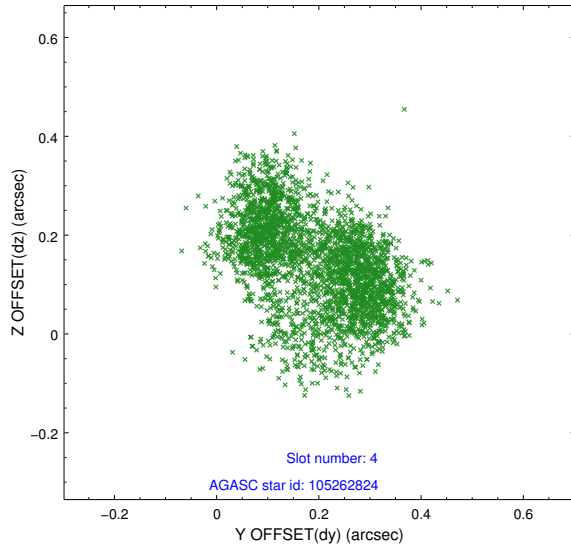
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	1361	-0.112	-0.005	0.006	0.010	0.000000	0.000000	-774.67	-1742.06
1	FID		ACIS-S-4	7.00	1361	0.220	0.056	0.005	0.009	0.000000	0.000000	2138.44	165.36
2	FID		ACIS-S-5	7.04	1361	-0.140	-0.042	0.006	0.011	0.000000	0.000000	-1826.17	160.15
3	GUIDE	used	105258088	7.85	2721	-0.134	0.236	0.078	0.127	126.232583	12.236126	-898.25	-524.08
4	GUIDE	used	105262824	8.94	2720	0.197	0.149	0.149	0.216	125.790886	12.186918	-191.13	-1919.39
5	GUIDE	used	105264032	9.23	2719	-0.050	-0.228	0.113	0.187	126.214985	11.742125	790.43	37.34
6	GUIDE	used	105388544	9.00	2722	-0.005	-0.068	0.099	0.152	126.852221	11.825255	-276.37	2037.21
7	GUIDE	used	105392128	8.73	2717	-0.012	-0.081	0.076	0.126	126.883353	11.982066	-843.87	1942.35

2.4 Star Slots

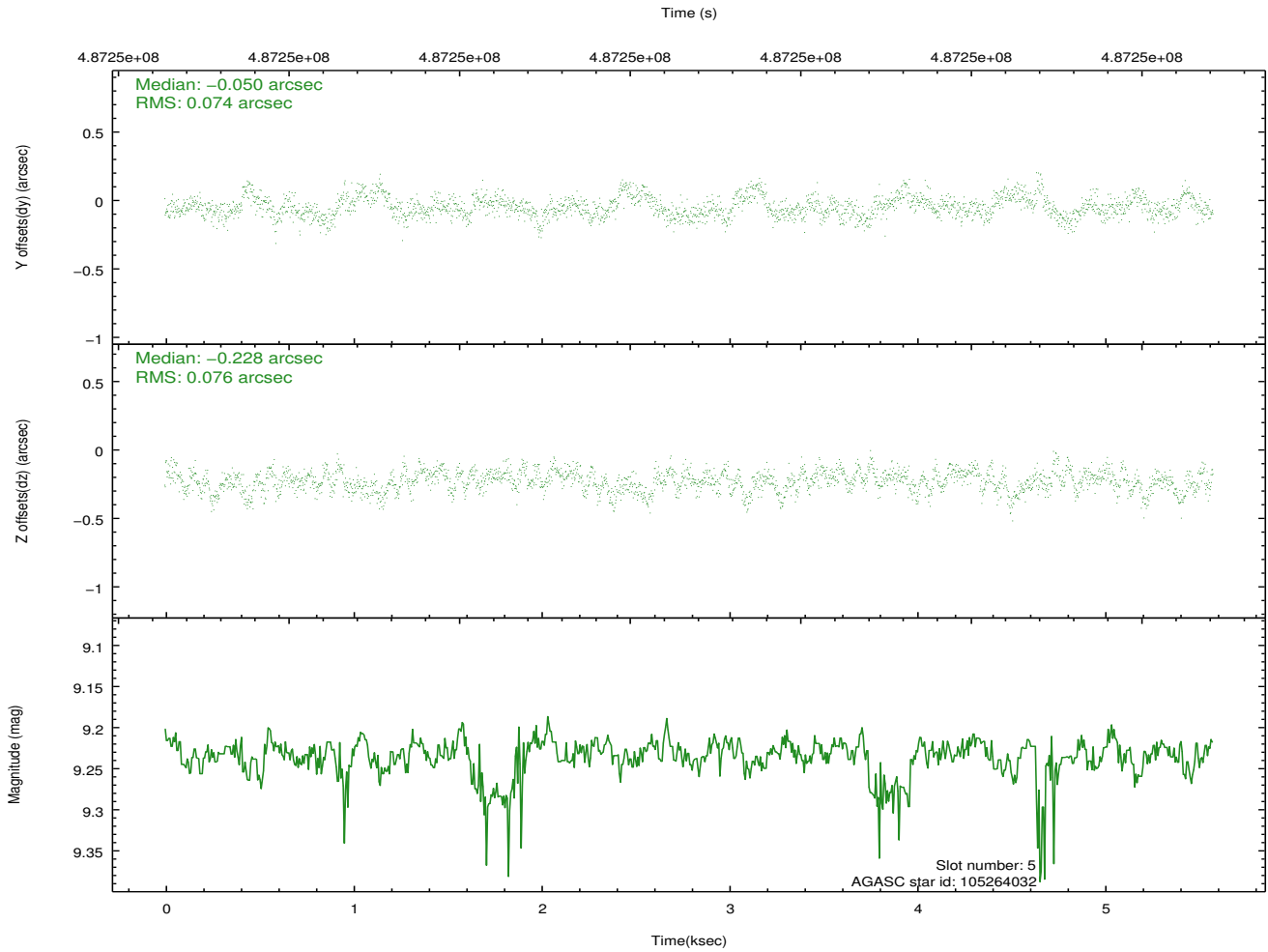
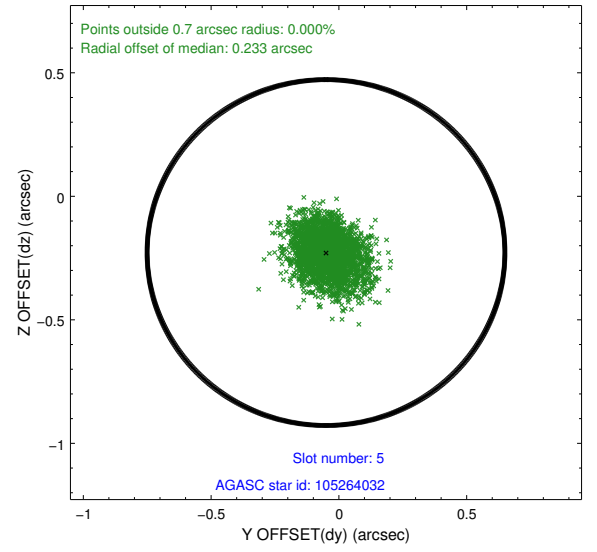
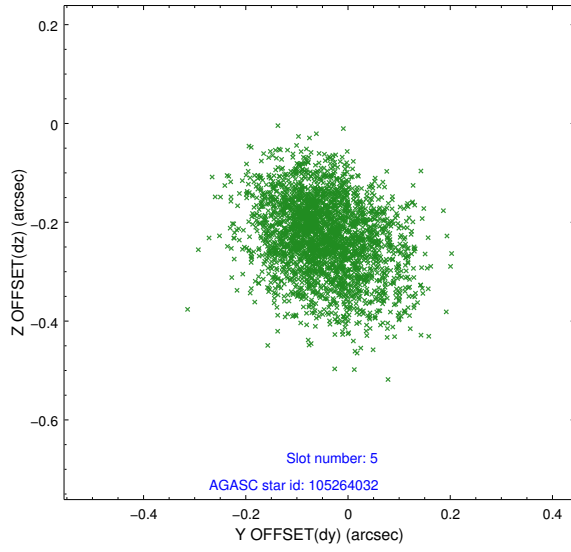
2.4.1 Slot 3



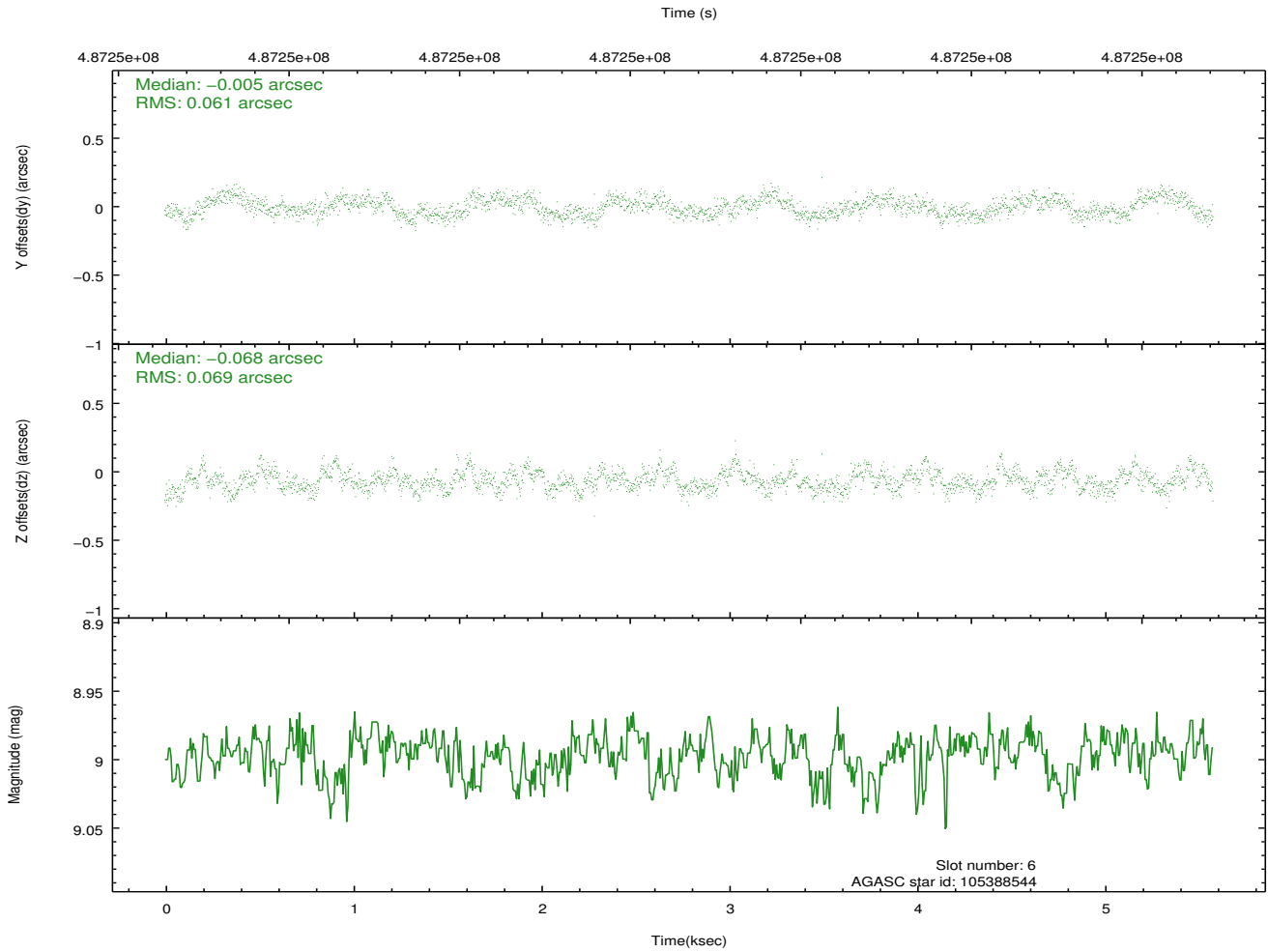
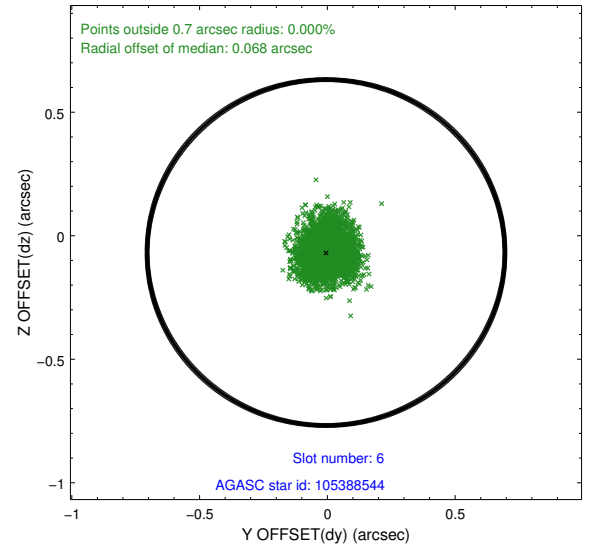
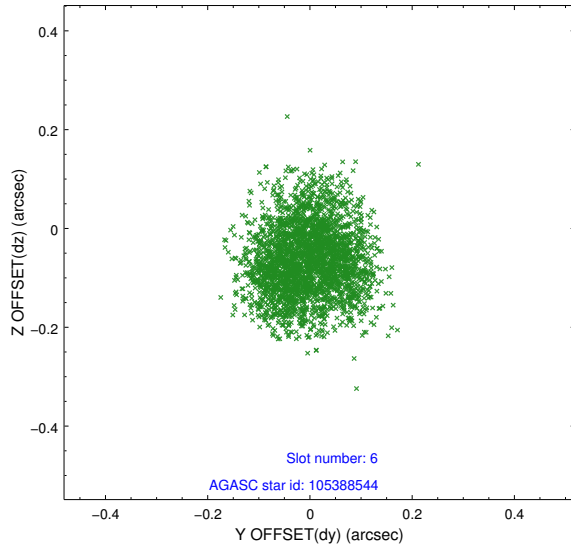
2.4.2 Slot 4



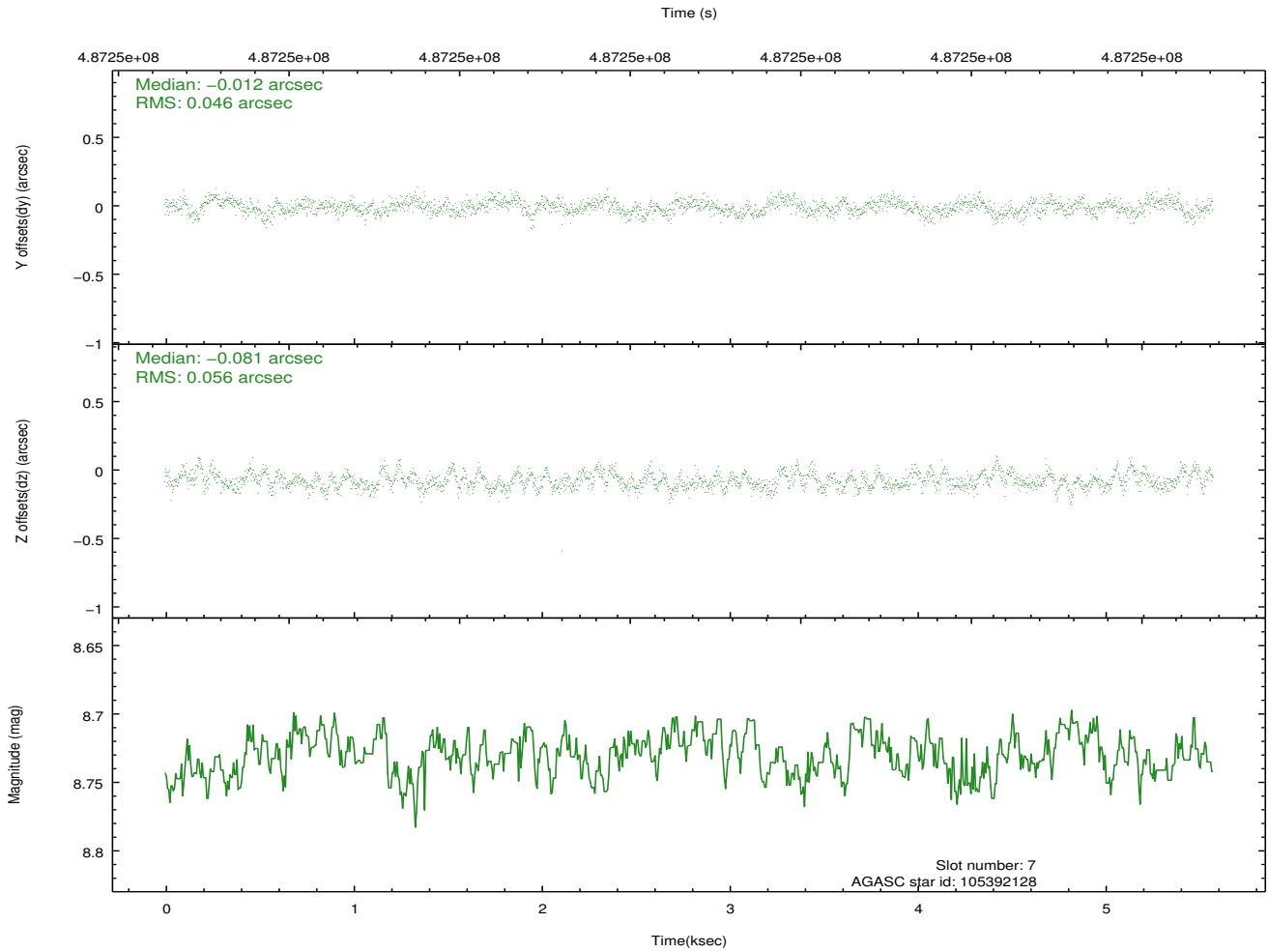
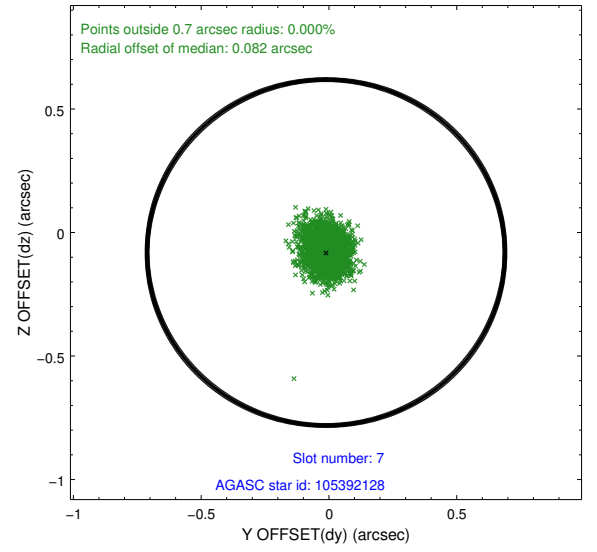
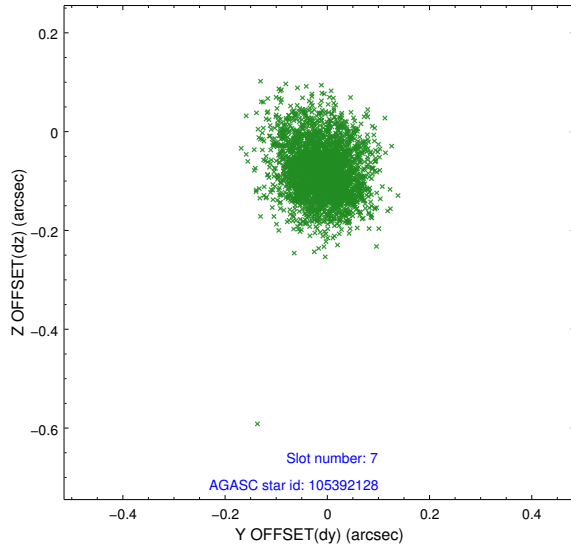
2.4.3 Slot 5



2.4.4 Slot 6

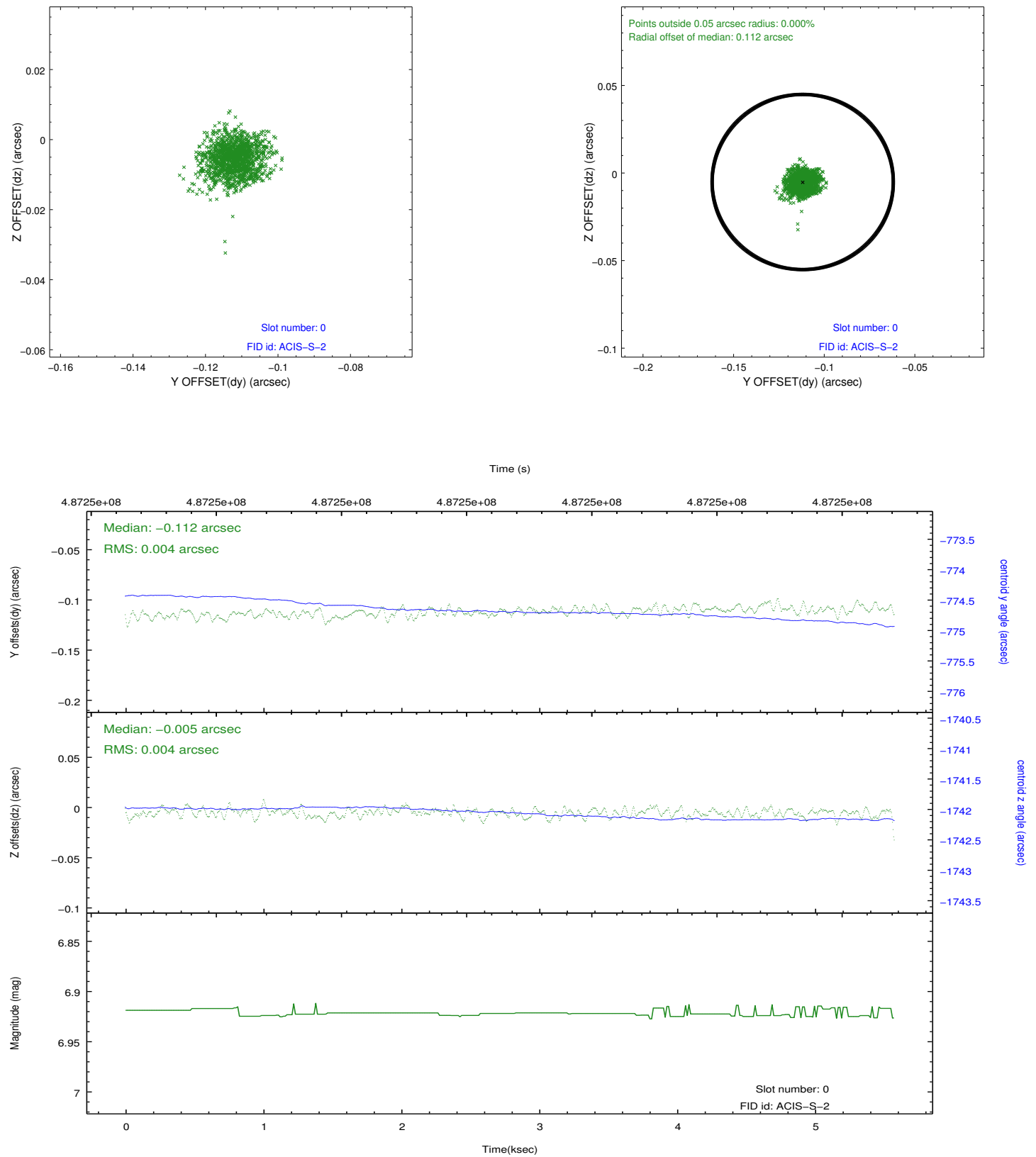


2.4.5 Slot 7

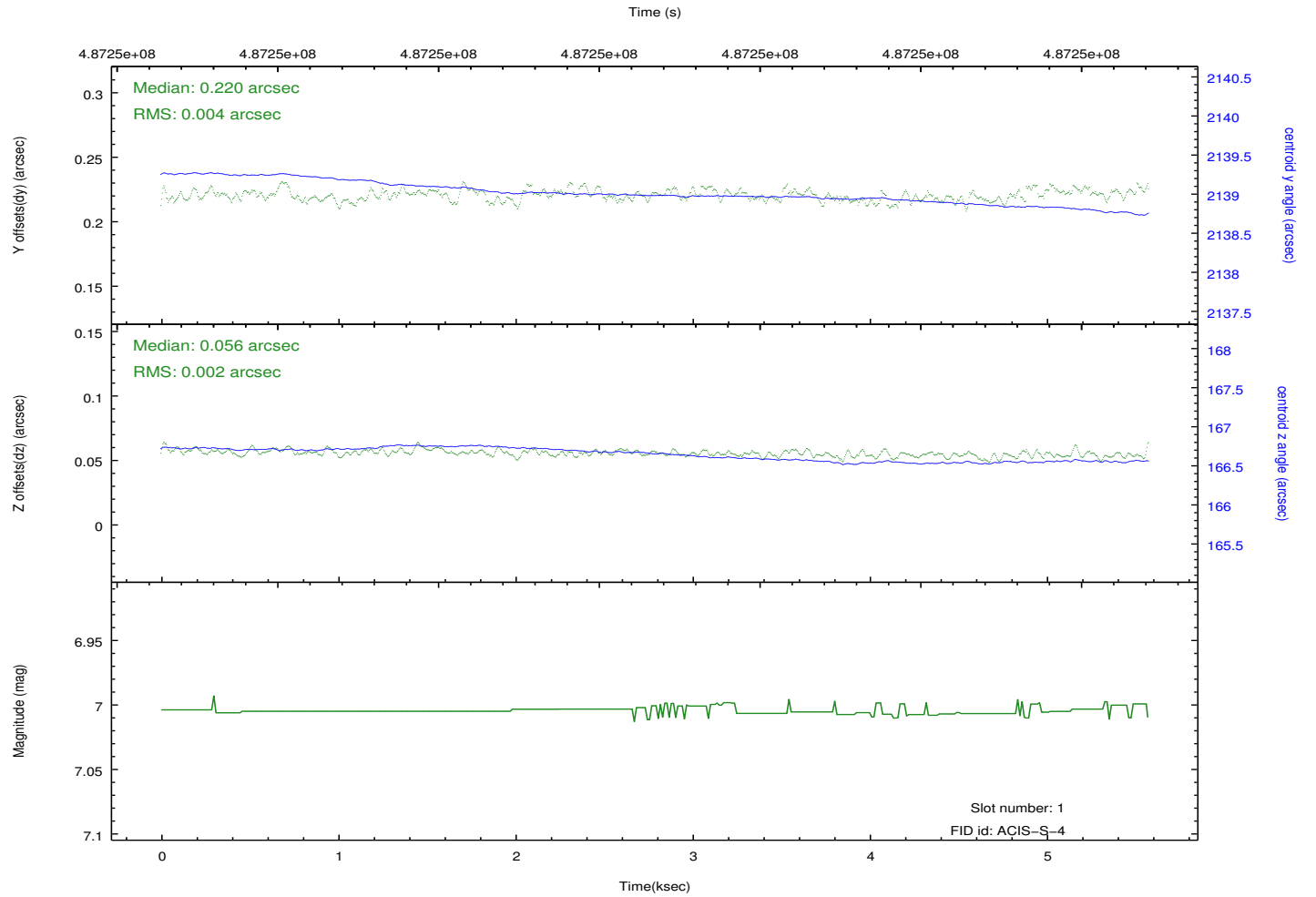
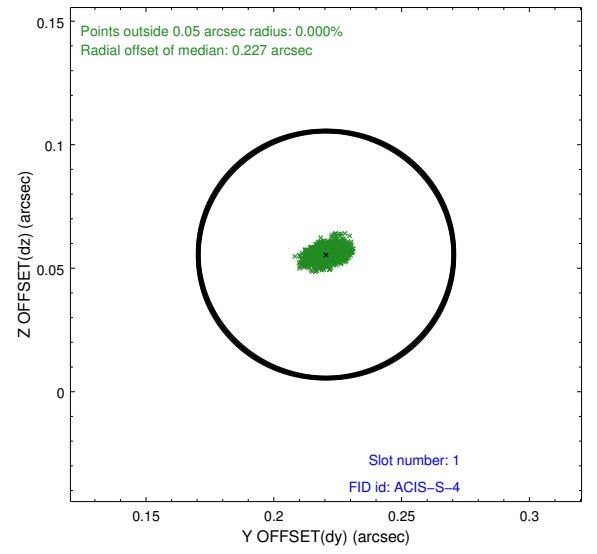
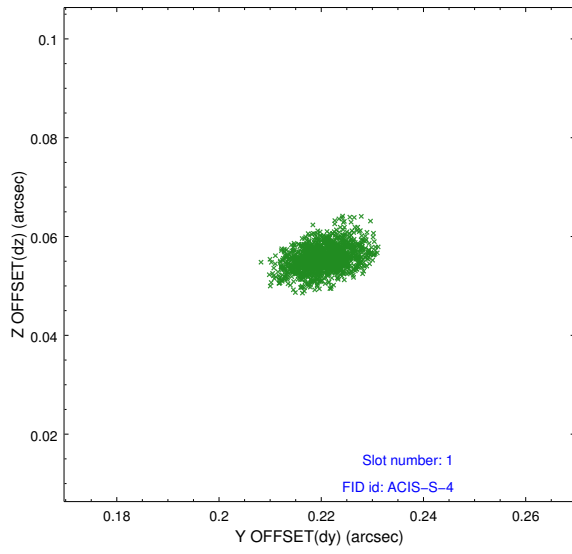


2.5 FID Slots

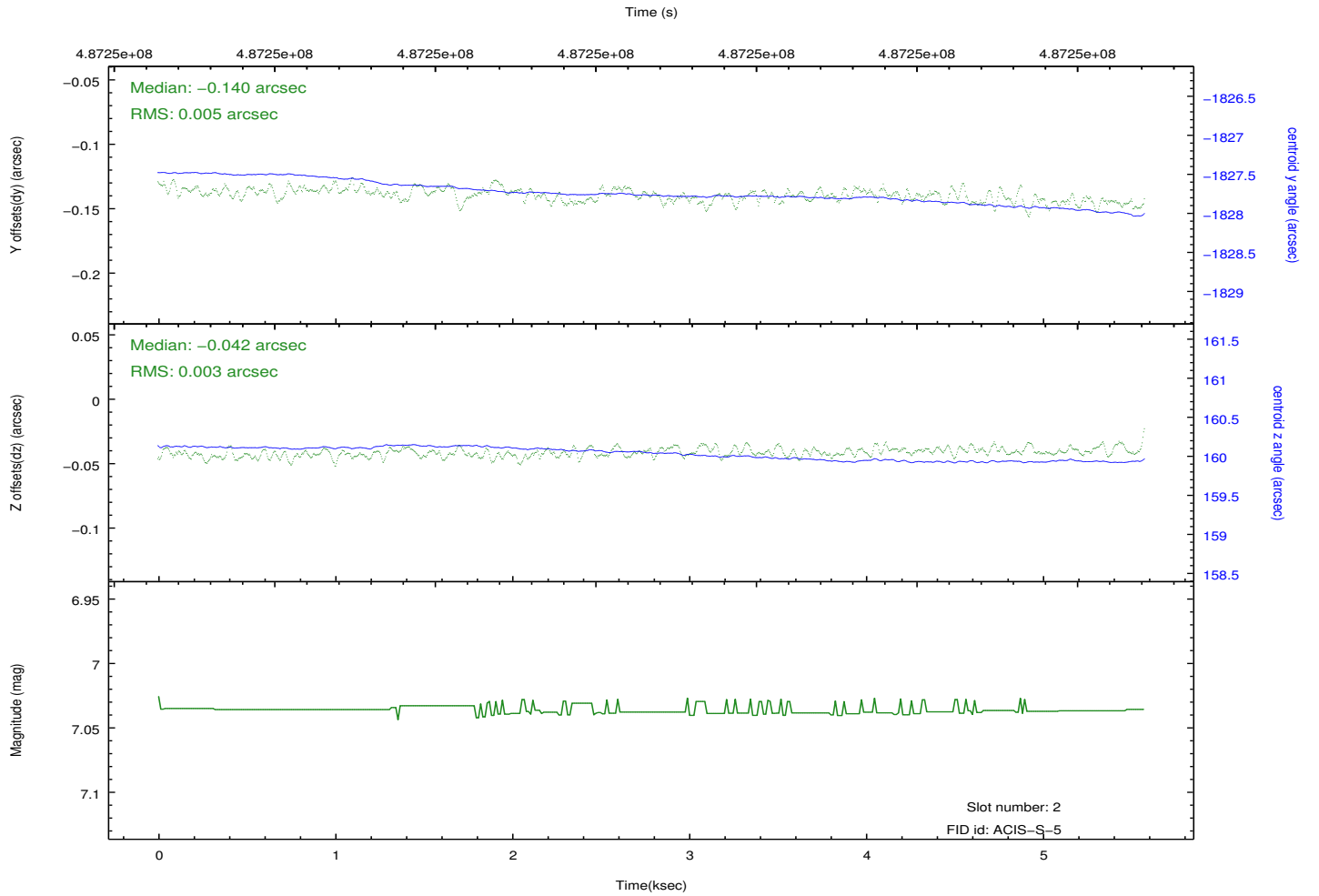
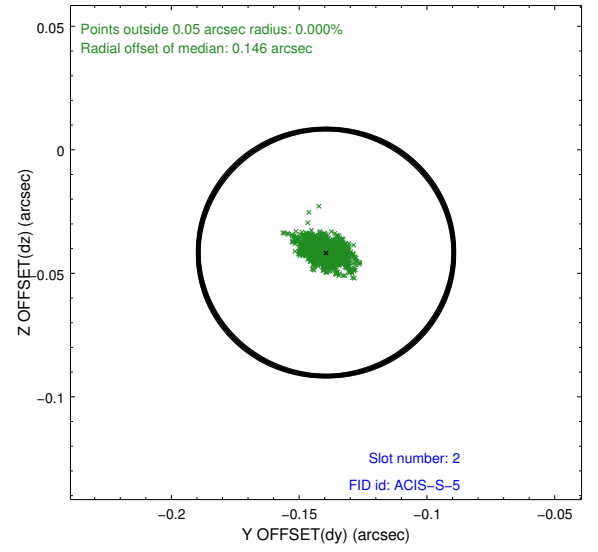
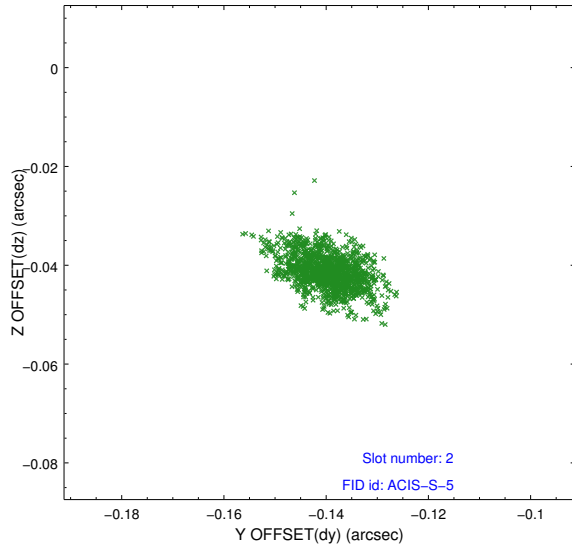
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1708000397682

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.