

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16022 - L2 Version 2
Chandra X-Ray Center

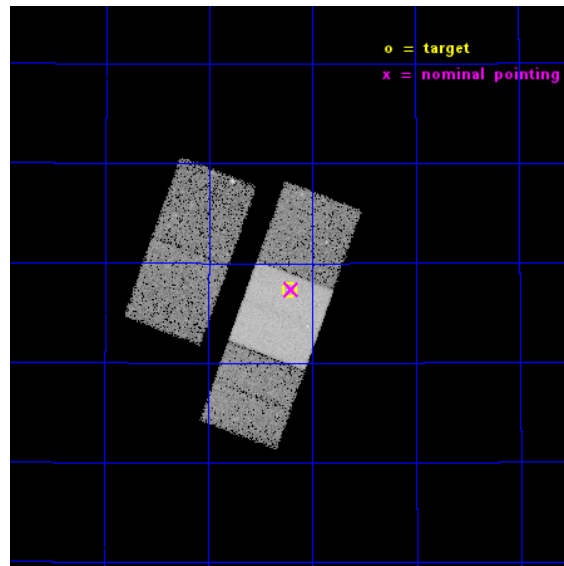
L2 Processing Date : Dec 8 2014

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1 Front

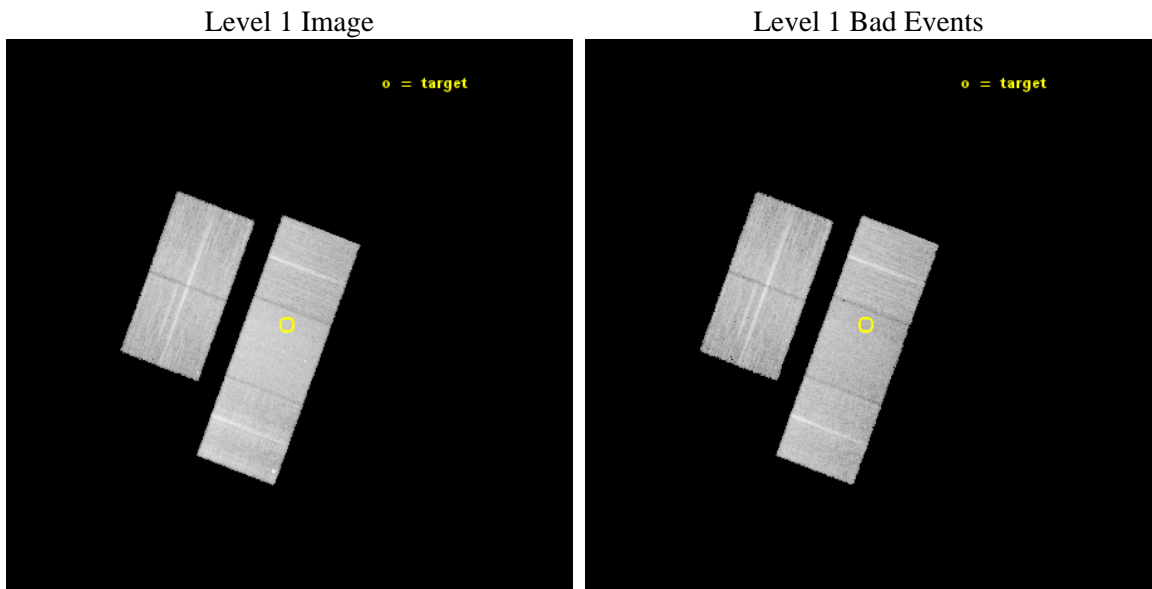
seq_num	601110	Sequence number
obs_id	16022	Observation id
title	X-Rays from Lyman Break Analog	Proposal title
observer	Prof. Philip Kaaret	Principal investigator
object	SDSS J082413.13+433721.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.054583	Observer's specified target RA [deg]
dec_targ	43.6225	Observer's specified target Dec [deg]
ra_nom	126.0504994638	Nominal RA [deg]
dec_nom	43.623146985462	Nominal Dec [deg]
roll_nom	110.42355105754	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23770.204017222	Sum of GTIs [s]
livetime	23459.628802367	Livetime [s]
ontime2	23766.898776829	Sum of GTIs [s]
ontime3	23763.839806557	Sum of GTIs [s]
ontime6	23770.162977219	Sum of GTIs [s]
ontime7	23770.204017222	Sum of GTIs [s]
ontime8	23770.080897212	Sum of GTIs [s]
l2events	110711	Number of level 2 events



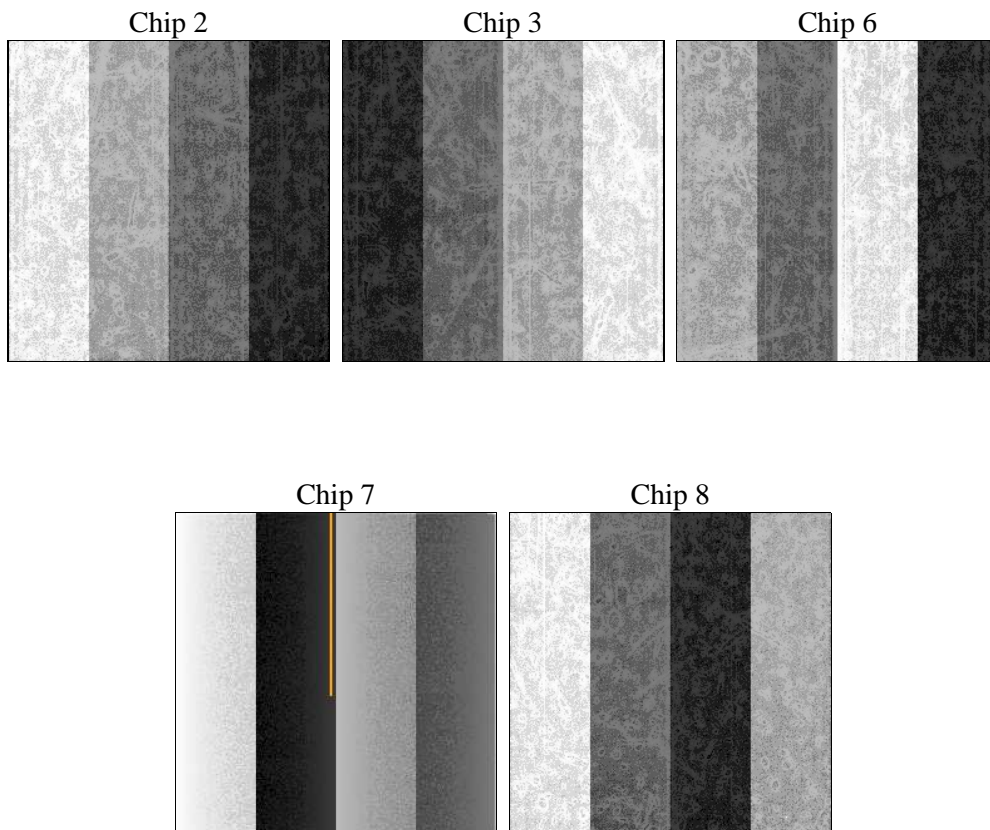
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23700.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	23770.204017222	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	23766.898776829	Sum of GTIs [s]
date	2014-12-08T09:56:00	Date and time of file creation	ontime3	23763.839806557	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	23770.162977219	Sum of GTIs [s]
			ontime7	23770.204017222	Sum of GTIs [s]
			ontime8	23770.080897212	Sum of GTIs [s]
			l1events	637291	Number of level 1 events

2.1.4 Events

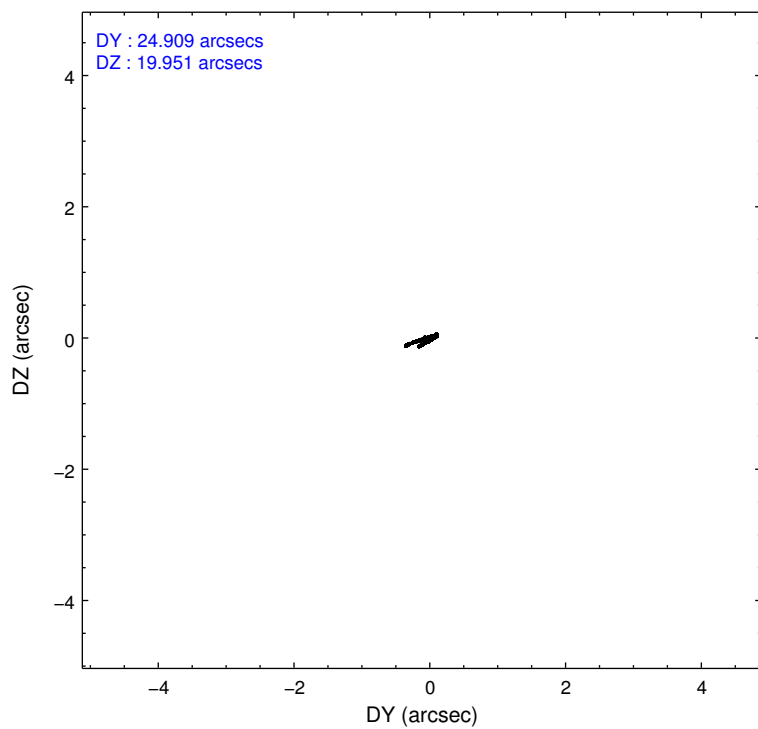
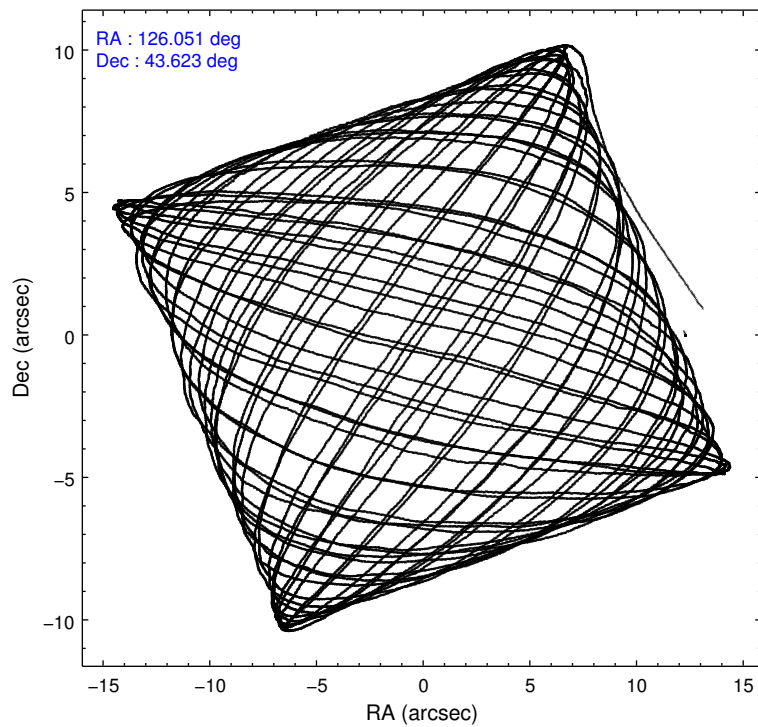
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	111948	107630	114891	154196	148626
rejected events	98975	94966	101264	89163	110698
rejected %	88%	88%	88%	57%	74%

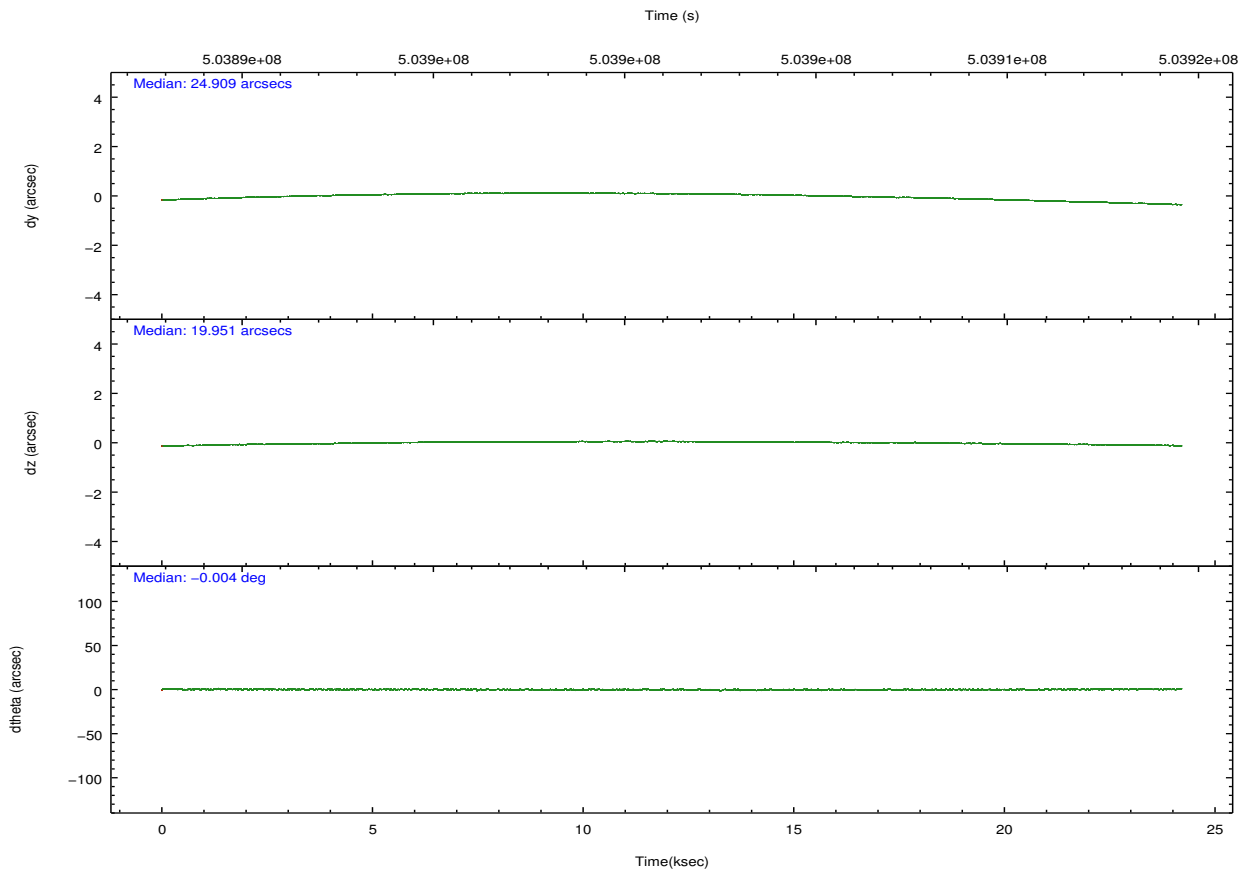
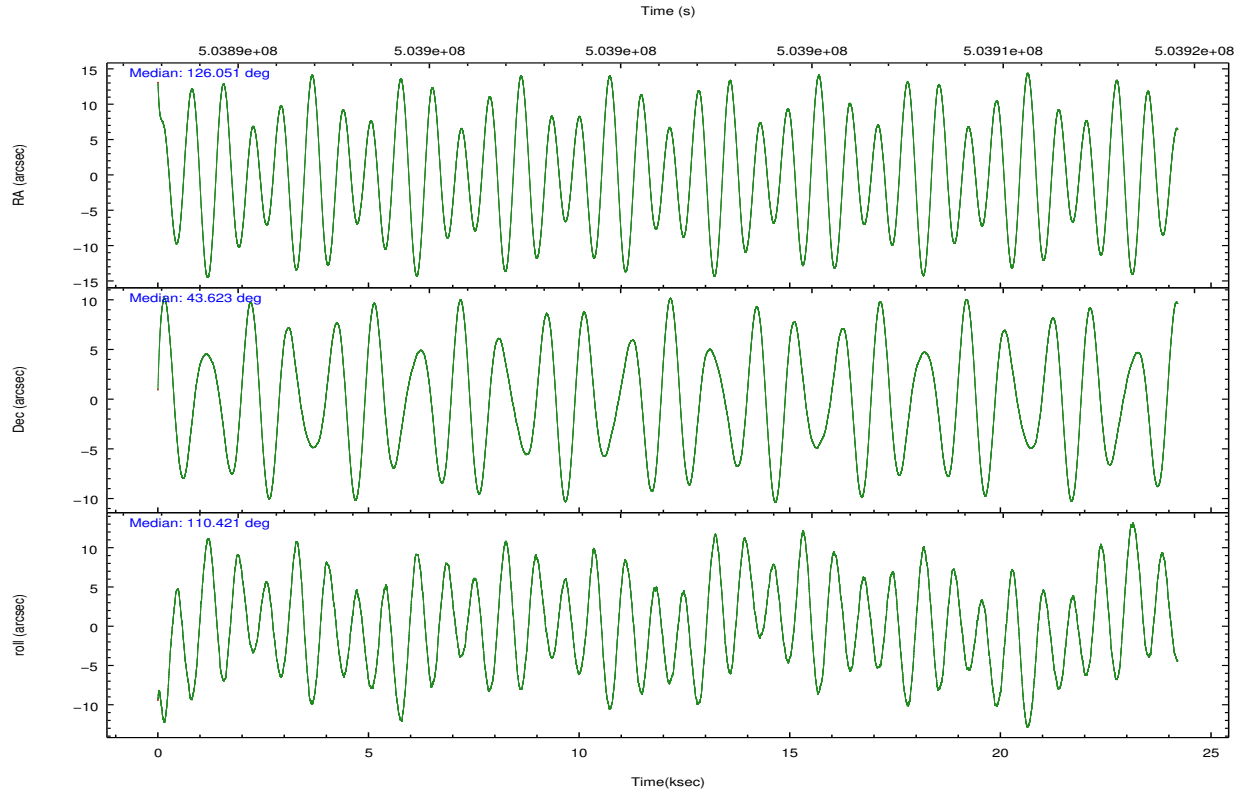
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4709	4340	4482	5463	11257
	4%	4%	3%	3%	7%
grade 1 events	64	57	48	155	133
	0%	0%	0%	0%	0%
grade 2 events	3073	2765	3091	13351	8847
	2%	2%	2%	8%	5%
grade 3 events	1328	1356	1411	5187	3911
	1%	1%	1%	3%	2%
grade 4 events	1300	1350	1325	5236	3810
	1%	1%	1%	3%	2%
grade 5 events	4985	6148	6183	15426	8625
	4%	5%	5%	10%	5%
grade 6 events	2564	2856	3319	35799	10138
	2%	2%	2%	23%	6%
grade 7 events	93925	88758	95032	73579	101905
	83%	82%	82%	47%	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	126.079921	126.0504994638043	CCD I2 on	O2	Y
[deg] Pointing Dec	43.606005	43.62314698546226	CCD I3 on	O3	Y
[deg] Pointing Roll	110.246625	110.4235510575409	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	503889628.184000	503888528.97476	CCD S5 on	N	N
Observation start date	2013-12-20T01:19:21	2013-12-20T01:02:08	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	503913328.184000	503914245.71367	On-chip summing requested	N	N
Observation end date	2013-12-20T07:54:21	2013-12-20T08:10:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





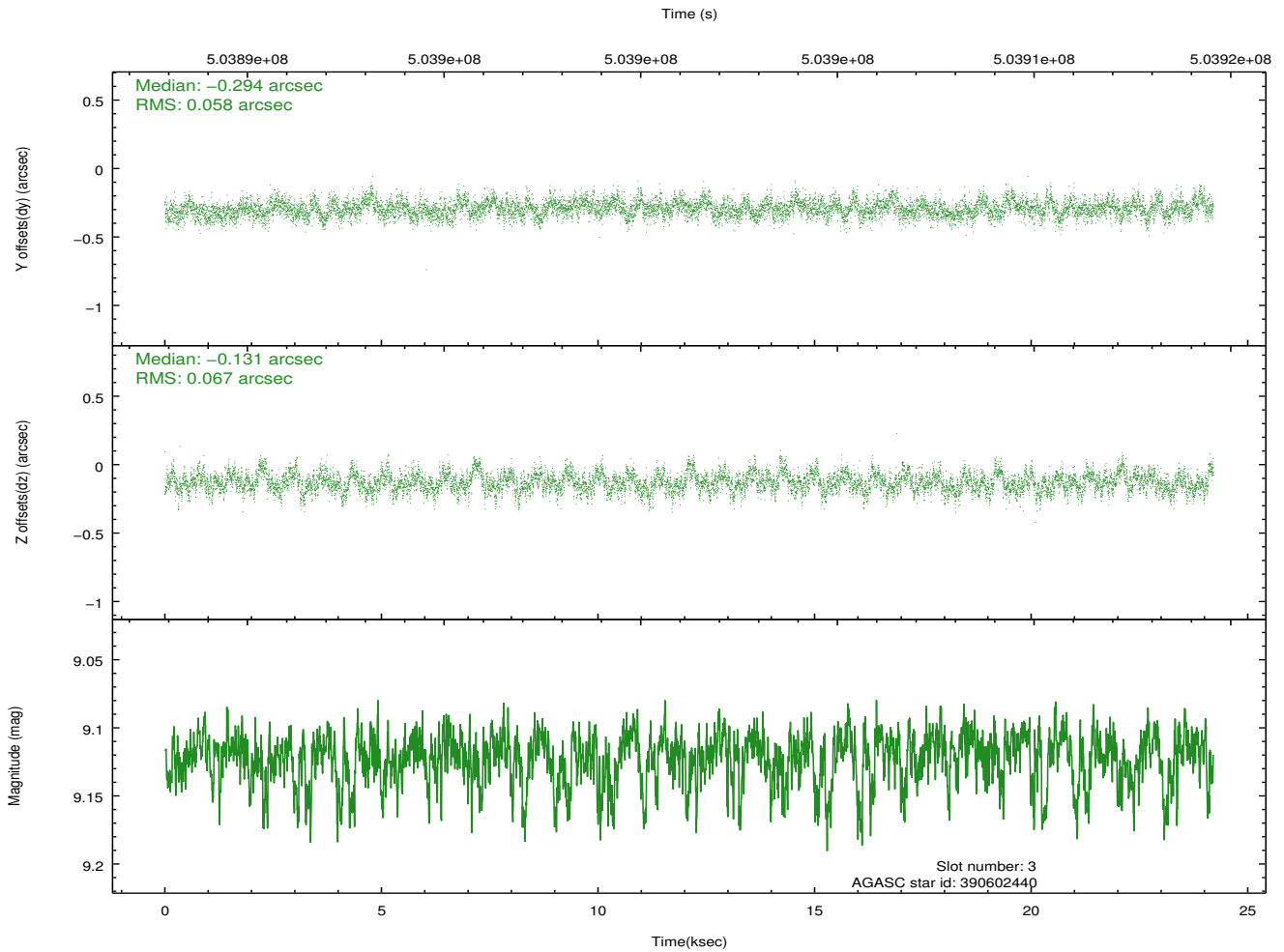
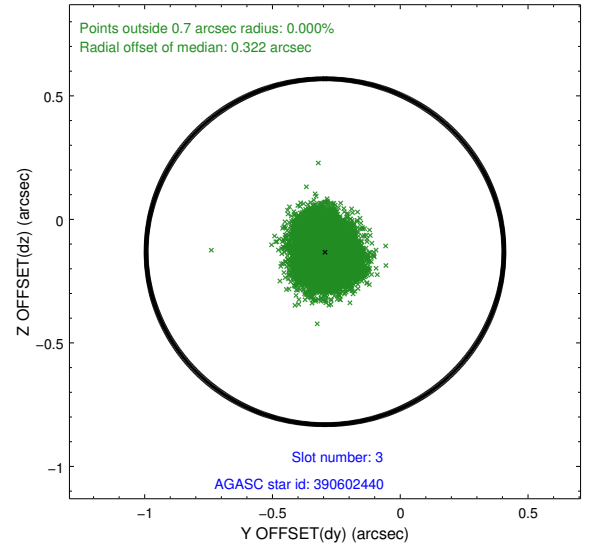
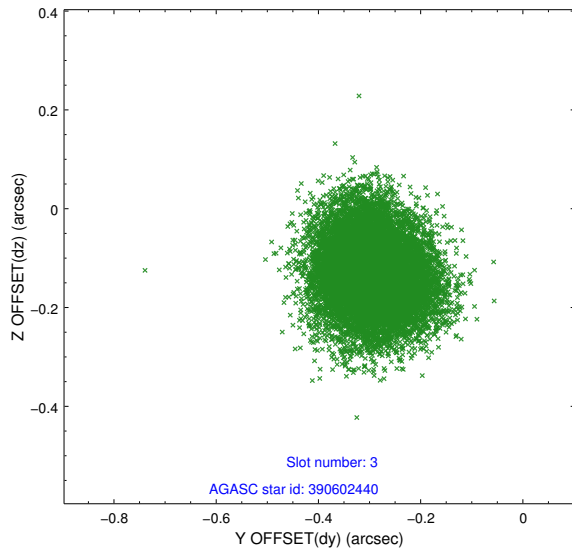
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	5905	-0.206	-0.028	0.007	0.012	0.000000	0.000000	-778.31	-1741.48
1	FID		ACIS-S-4	7.19	5905	0.389	0.107	0.006	0.010	0.000000	0.000000	2135.49	167.02
2	FID		ACIS-S-5	7.21	5904	-0.214	-0.070	0.007	0.011	0.000000	0.000000	-1831.01	160.64
3	GUIDE	used	390602440	9.12	11797	-0.294	-0.131	0.095	0.153	125.125831	43.964273	2078.61	1868.56
4	GUIDE	used	390608632	8.54	11804	0.290	0.089	0.097	0.155	126.244325	42.995927	-2209.61	354.36
5	GUIDE	used	390609992	9.46	11804	-0.140	-0.280	0.141	0.225	125.080281	43.928008	1998.78	2025.34
6	GUIDE	used	390610240	8.99	11801	0.092	-0.129	0.124	0.192	125.594556	42.816187	-2220.54	2185.63
7	GUIDE	used	390725760	8.29	11805	0.055	0.441	0.072	0.116	126.759567	43.858164	247.47	-1970.25

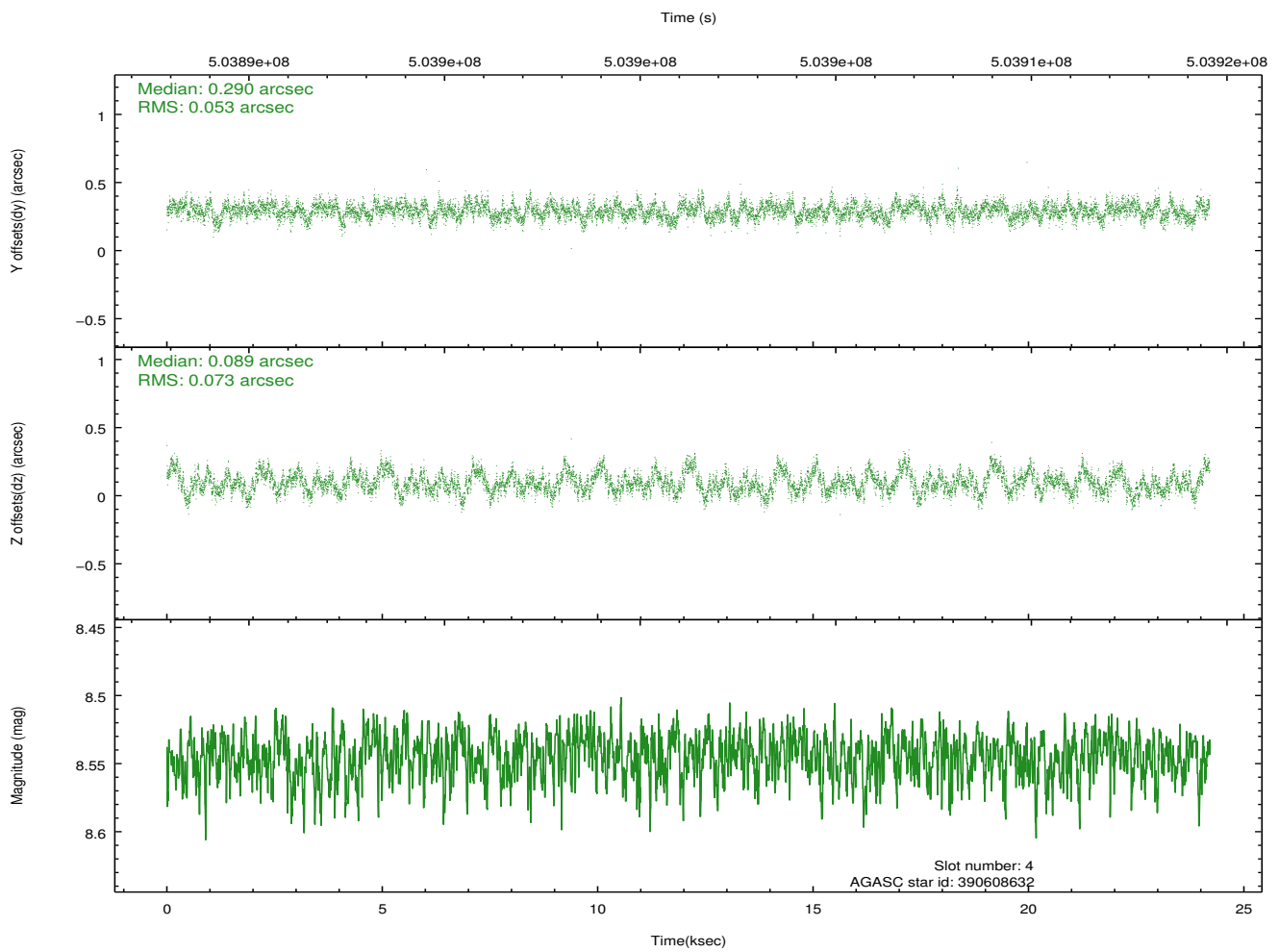
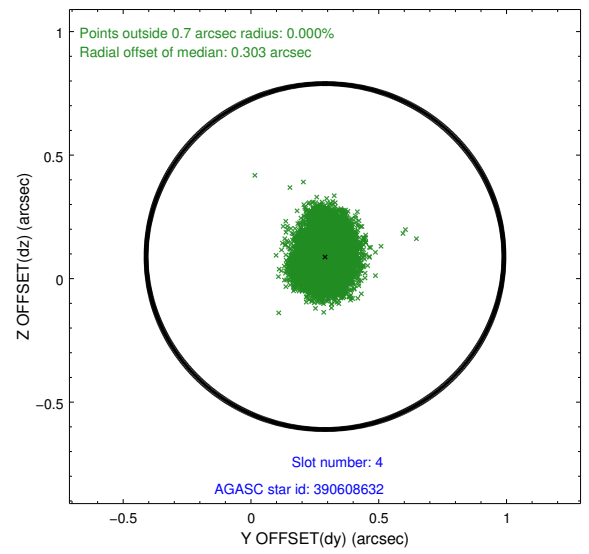
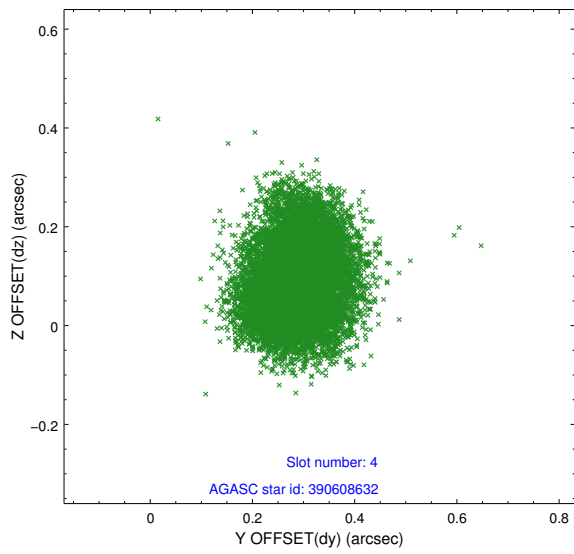
∞

2.4 Star Slots

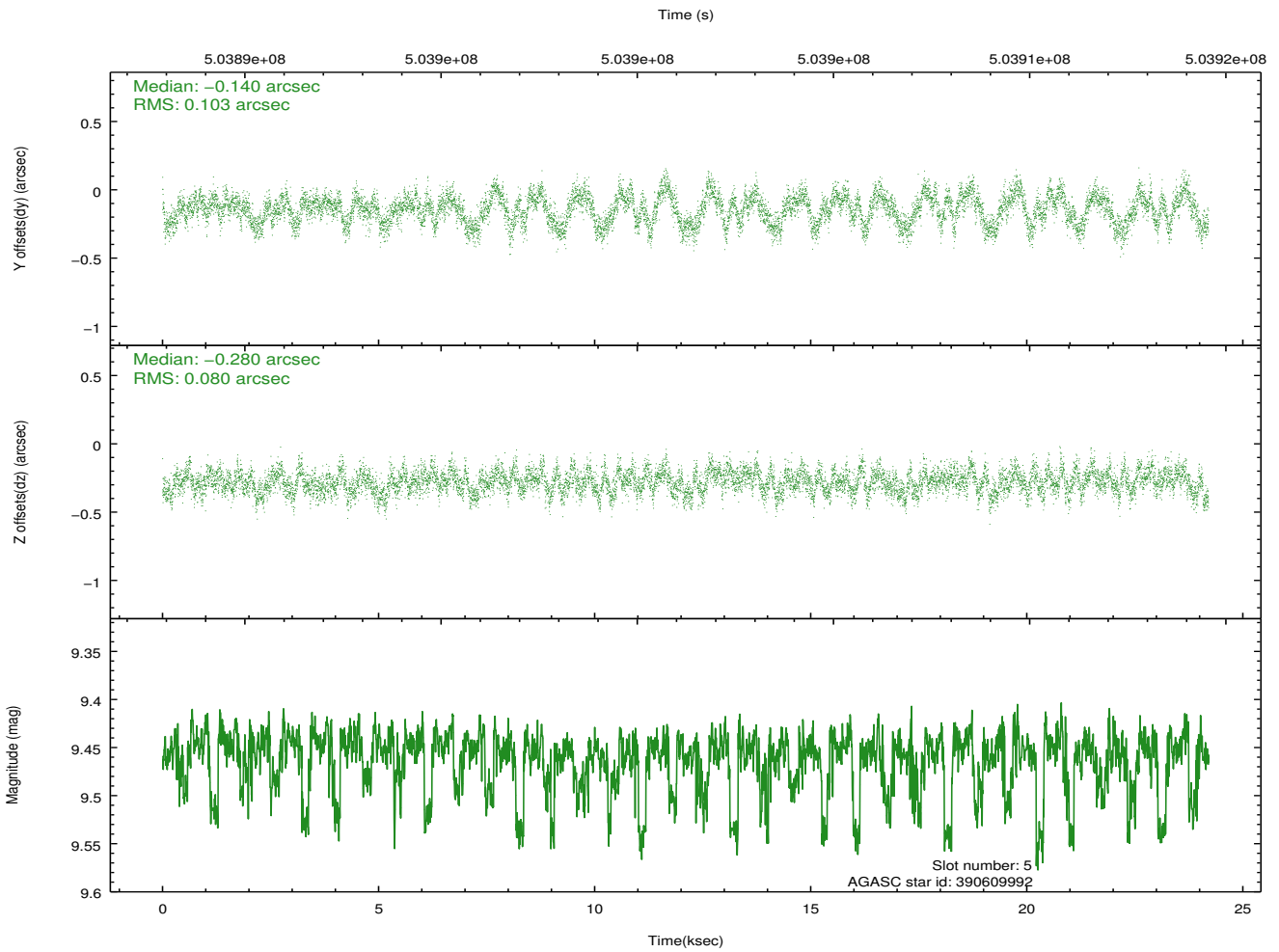
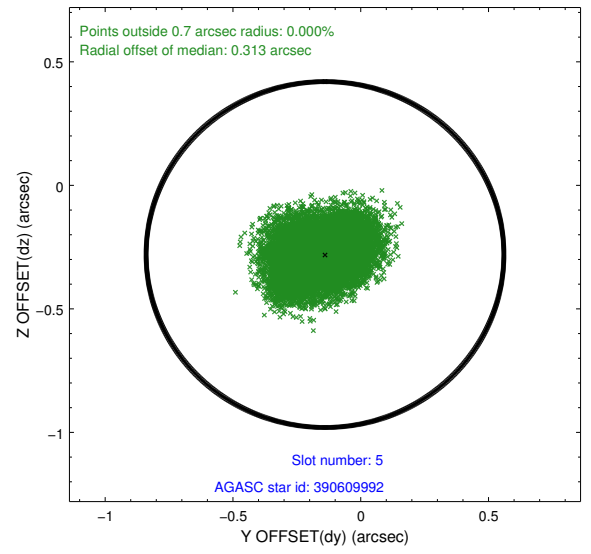
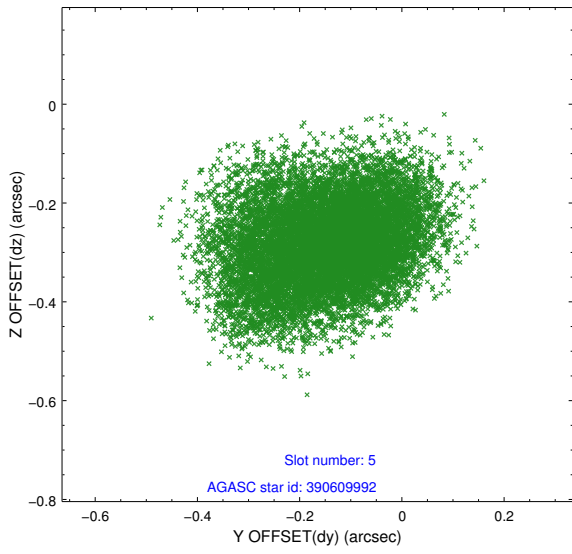
2.4.1 Slot 3



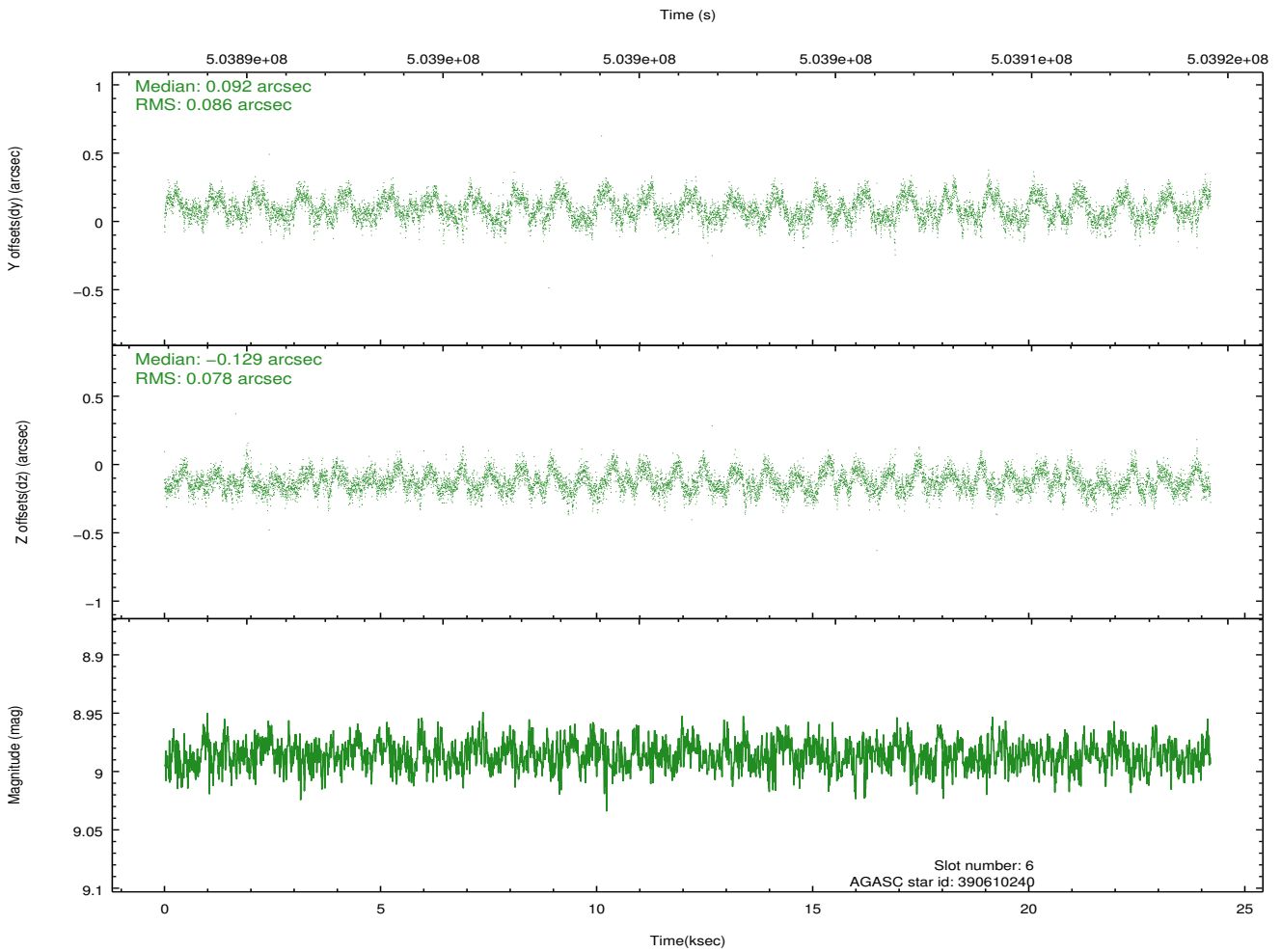
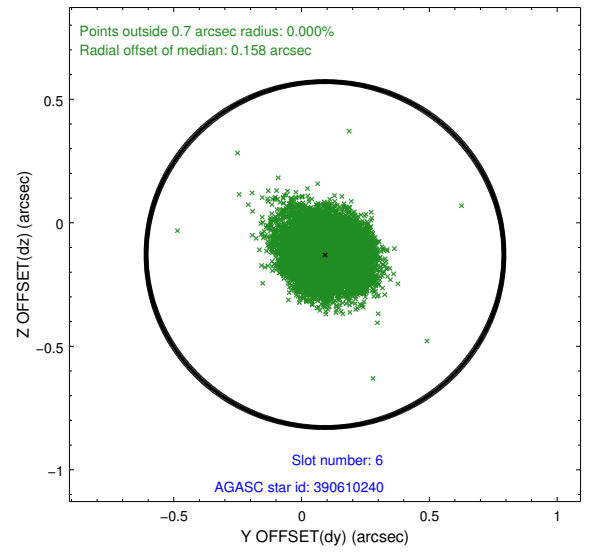
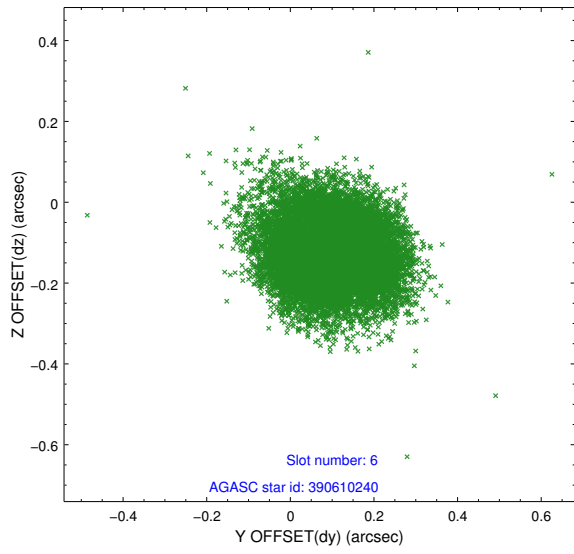
2.4.2 Slot 4



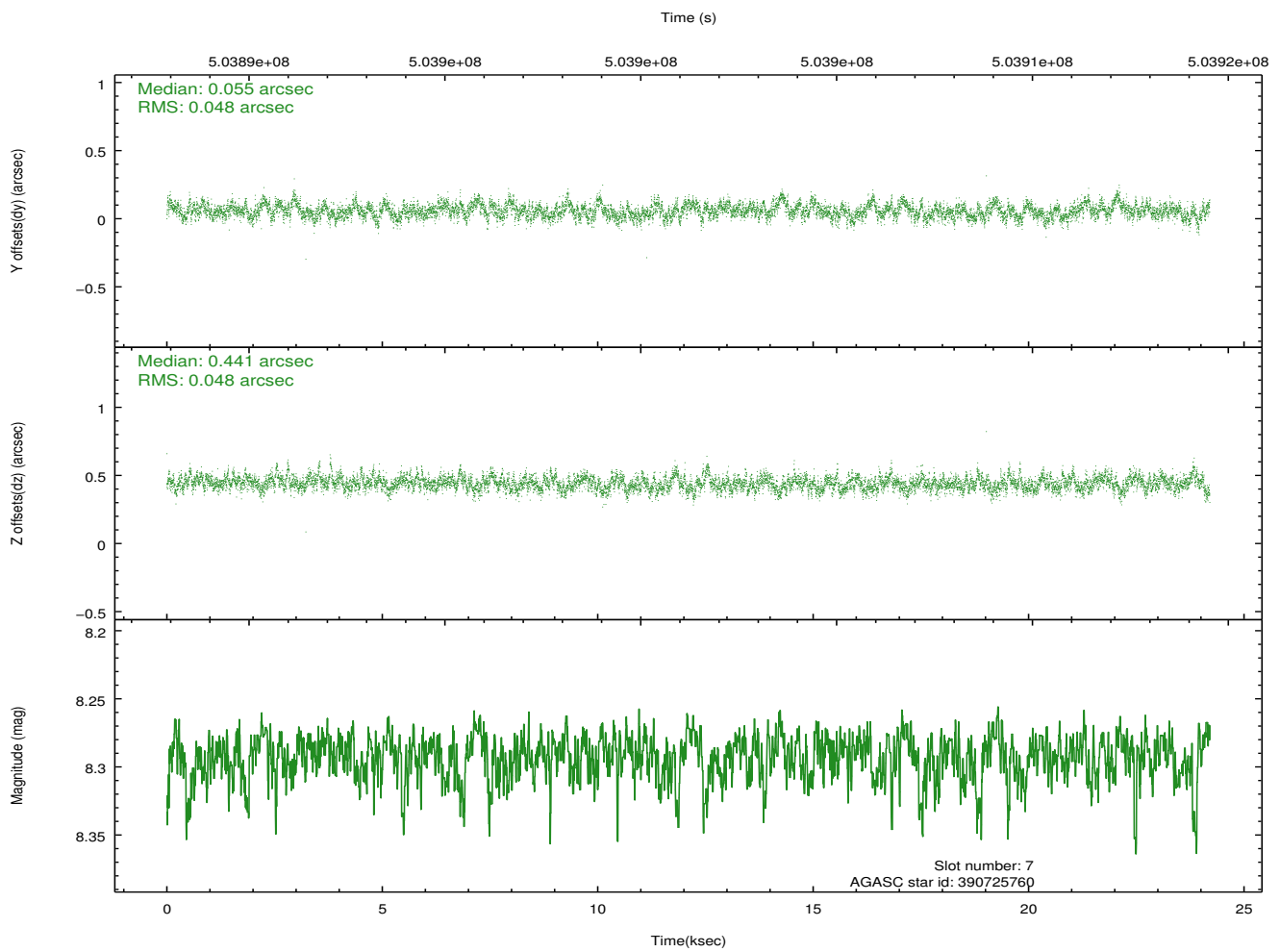
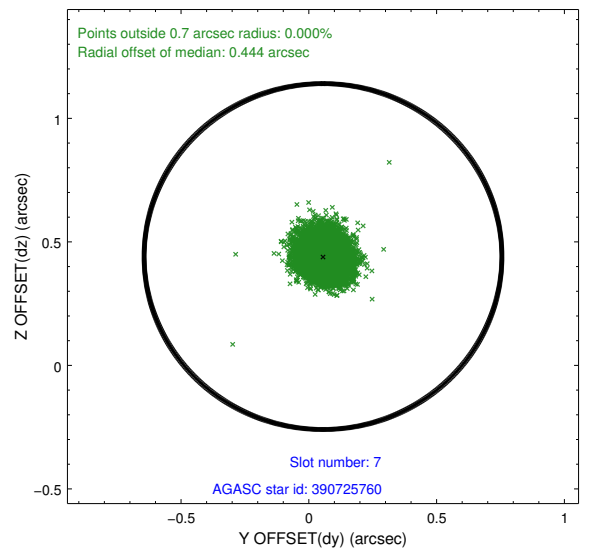
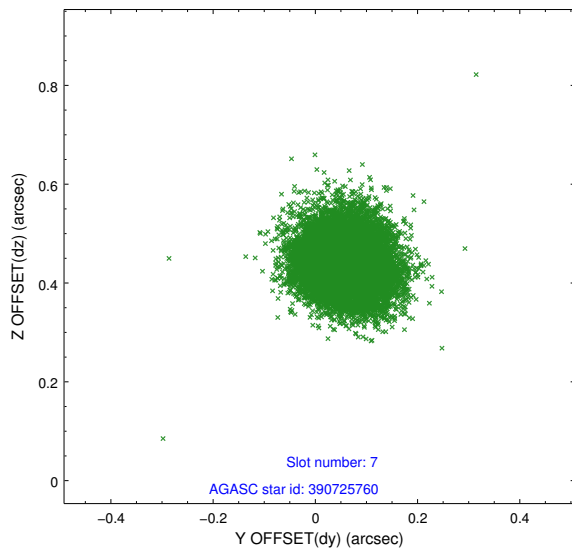
2.4.3 Slot 5



2.4.4 Slot 6

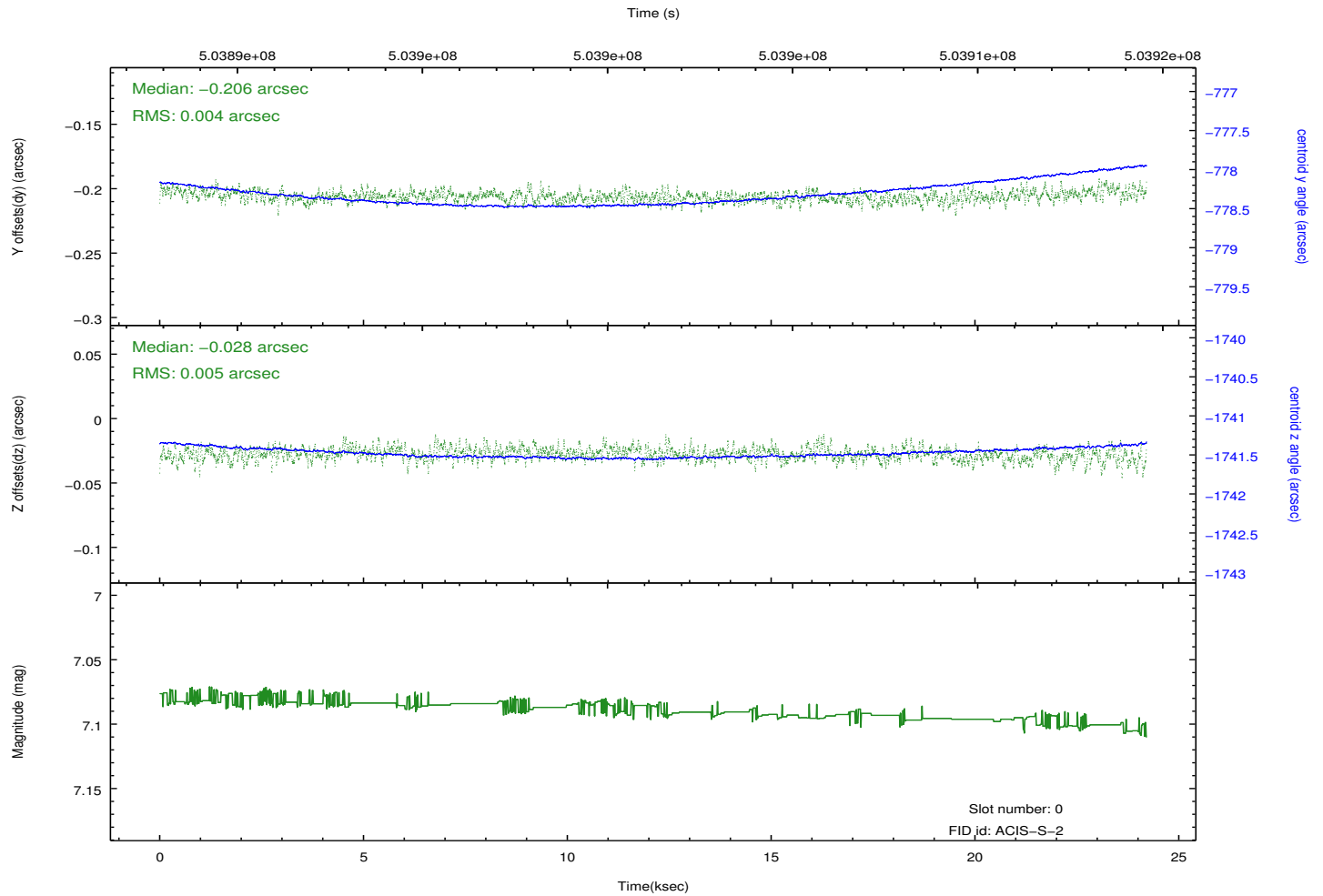
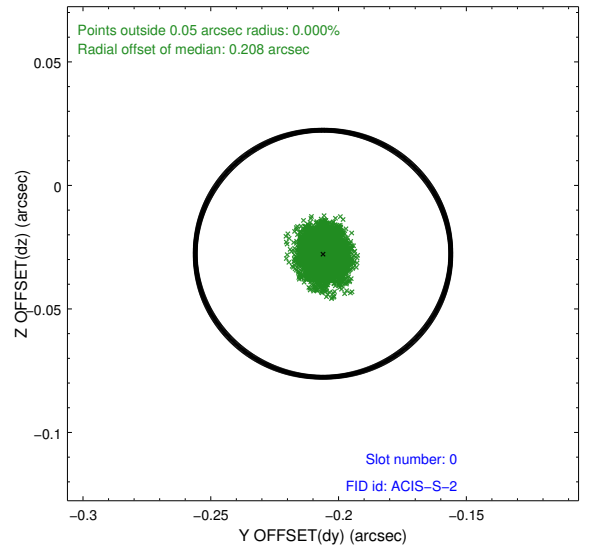
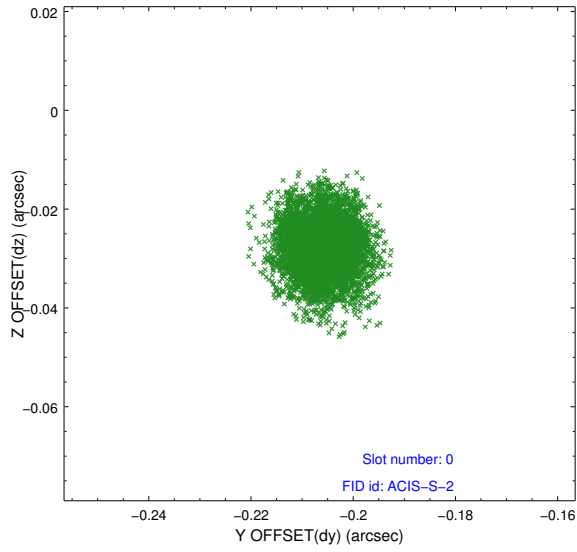


2.4.5 Slot 7

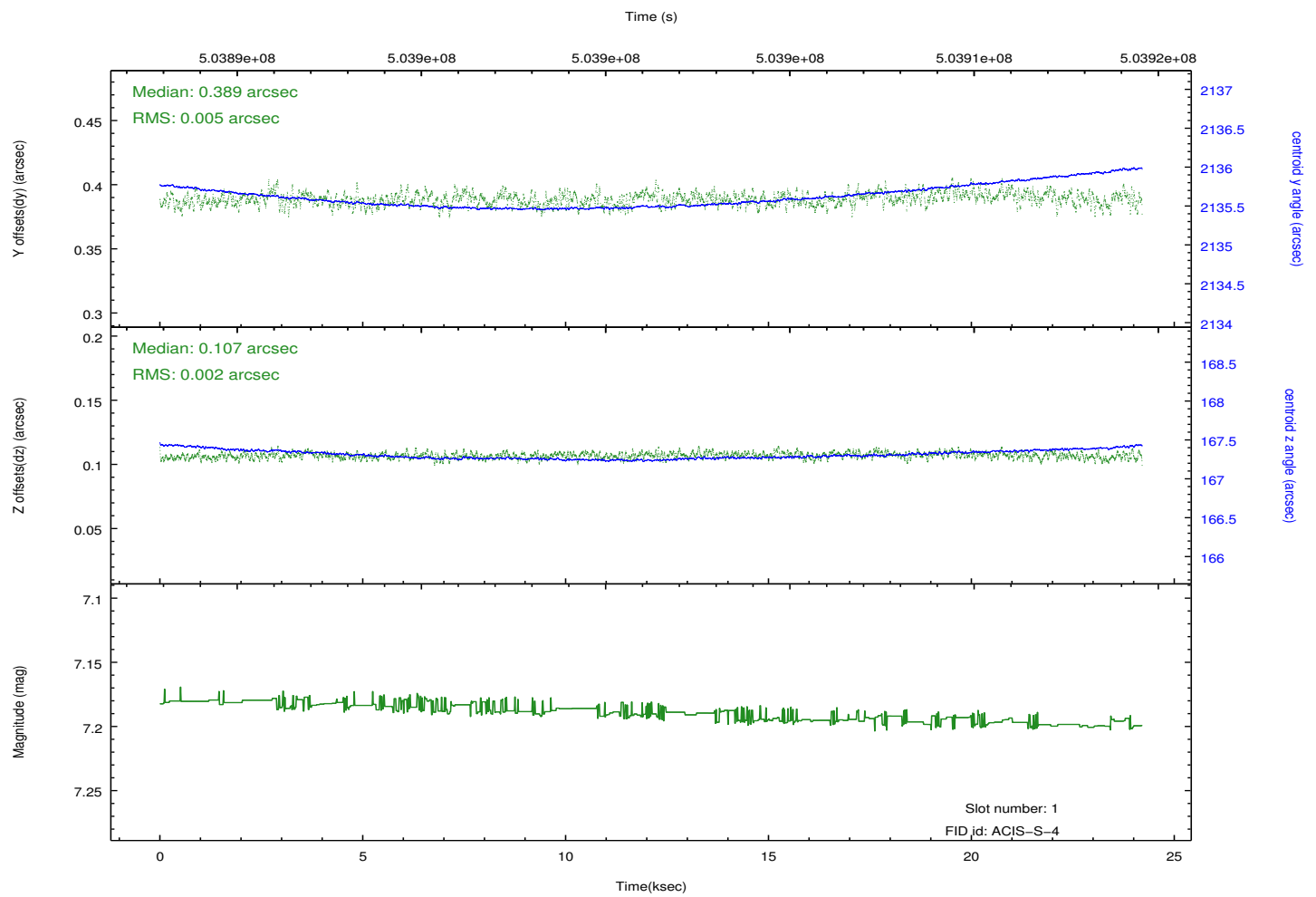
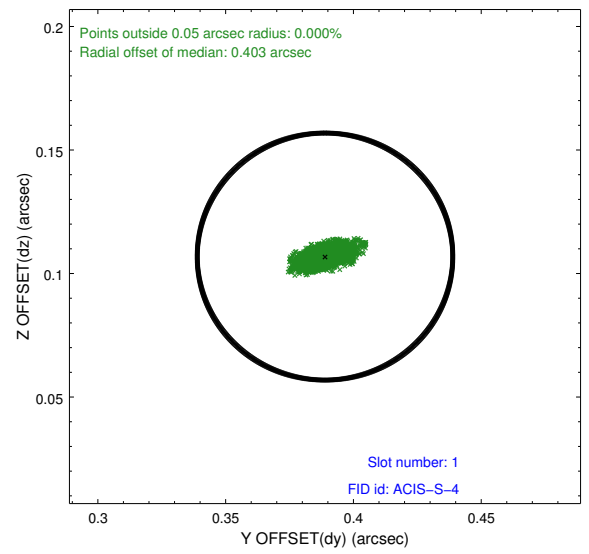
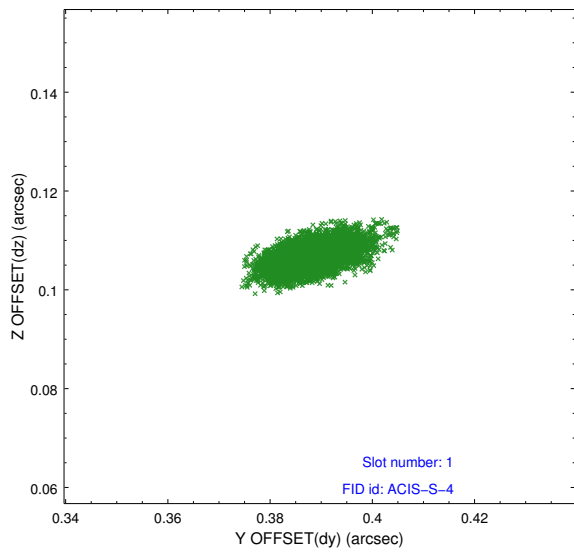


2.5 FID Slots

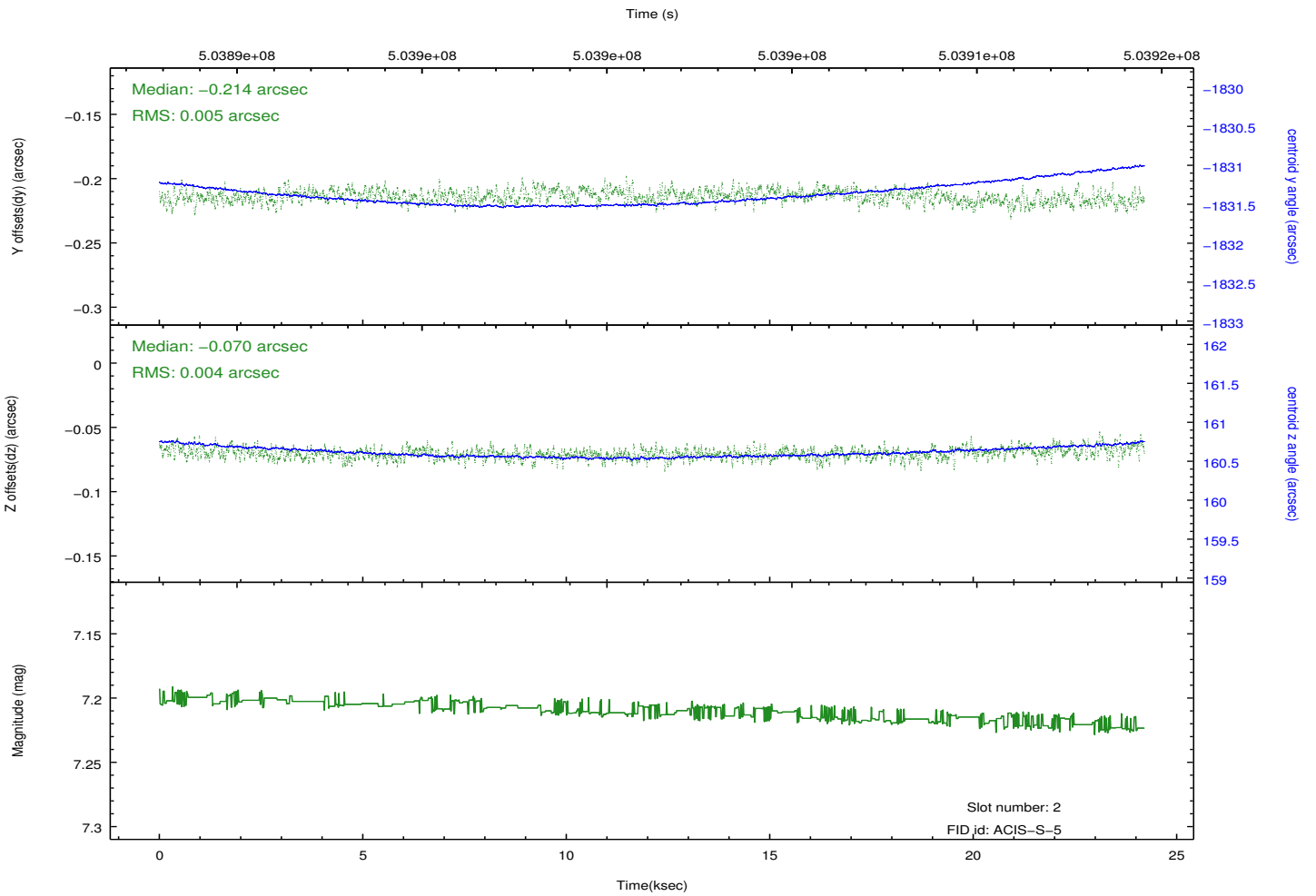
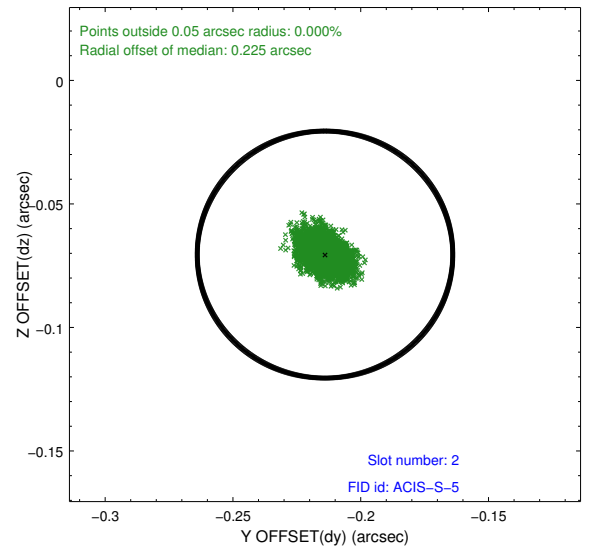
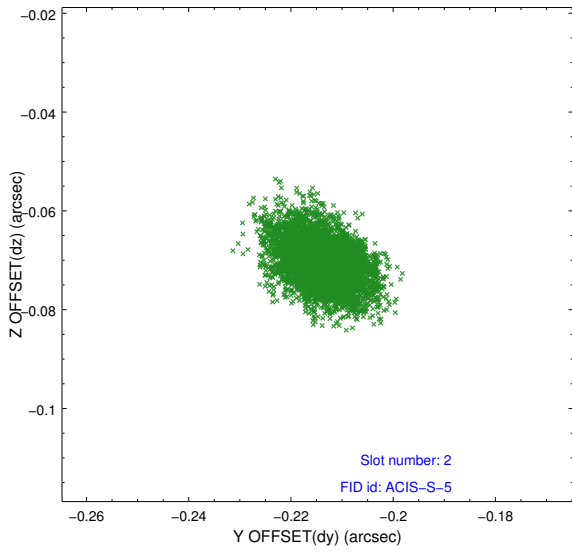
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.770204017222

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.