

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13429 - L2 Version 3
Chandra X-Ray Center

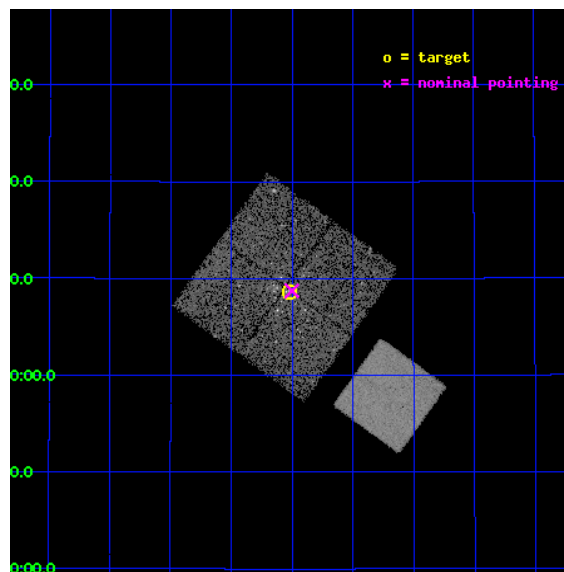
L2 Processing Date : Mar 2 2012

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1 Front

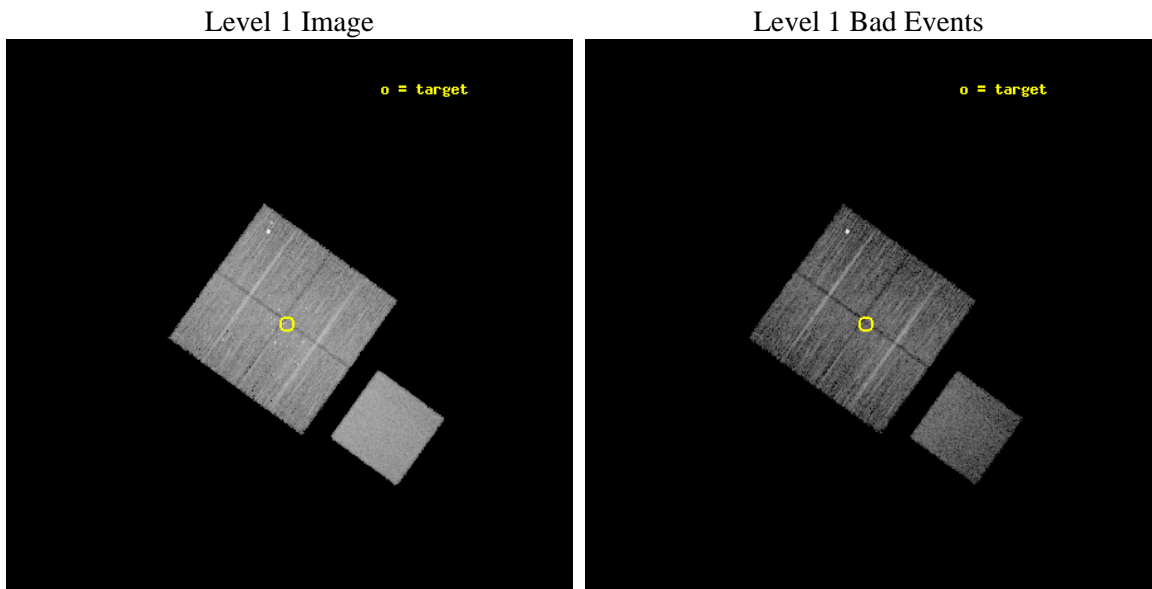
seq_num	200751	Sequence number
obs_id	13429	Observation id
title	Connecting Young Stellar Object Variability Across the Great Observatories: A Combined Spitzer and Chandra Study	Proposal title
observer	Dr. Kevin Flaherty	Principal investigator
object	IC 348	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	56.13125	Observer's specified target RA [deg]
dec_targ	32.142694	Observer's specified target Dec [deg]
ra_nom	56.125288470119	Nominal RA [deg]
dec_nom	32.145553286985	Nominal Dec [deg]
roll_nom	125.79750429696	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10546.20008111	Sum of GTIs [s]
livetime	10408.406213051	Livetime [s]
ontime0	10543.059060752	Sum of GTIs [s]
ontime1	10546.20008111	Sum of GTIs [s]
ontime2	10546.20008111	Sum of GTIs [s]
ontime3	10546.20008111	Sum of GTIs [s]
ontime7	10546.20008111	Sum of GTIs [s]
l2events	66397	Number of level 2 events



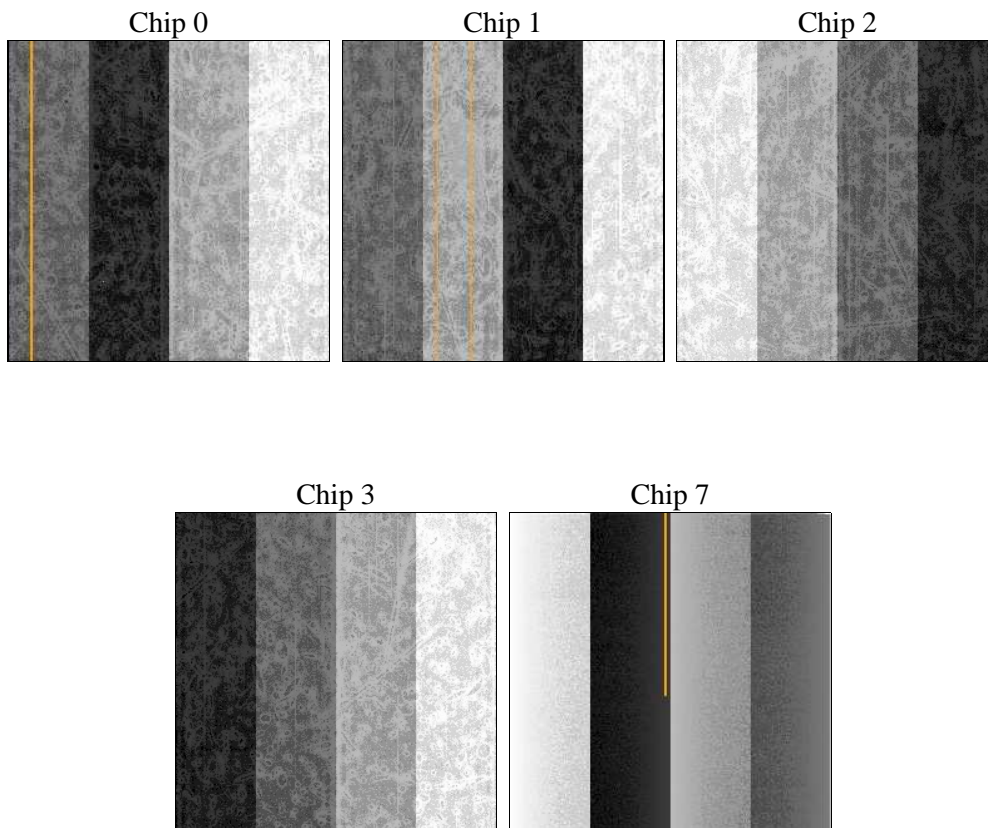
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	10500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10546.20008111	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	10543.059060752	Sum of GTIs [s]
date	2012-03-02T15:08:44	Date and time of file creation	ontime1	10546.20008111	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10546.20008111	Sum of GTIs [s]
			ontime3	10546.20008111	Sum of GTIs [s]
			ontime7	10546.20008111	Sum of GTIs [s]
			l1events	336919	Number of level 1 events

2.1.4 Events

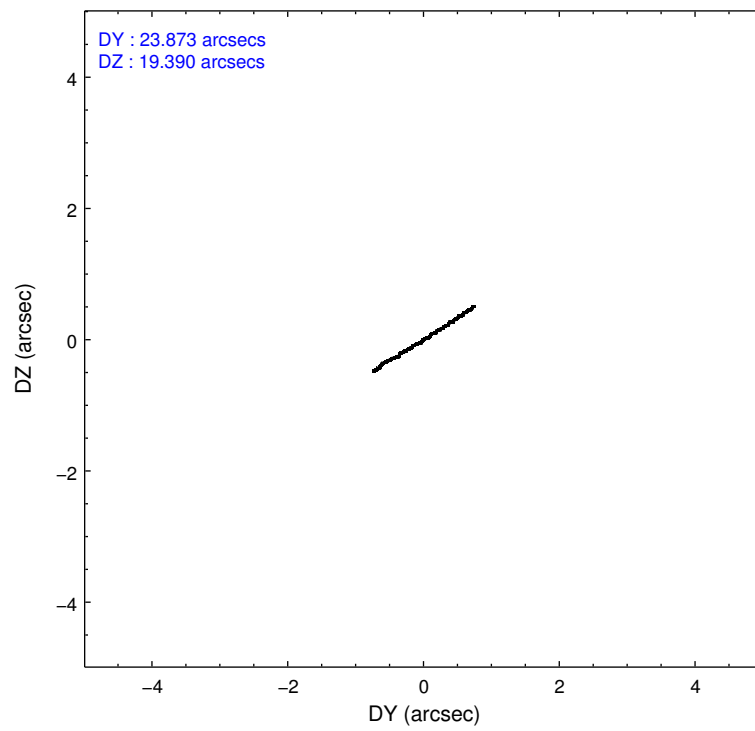
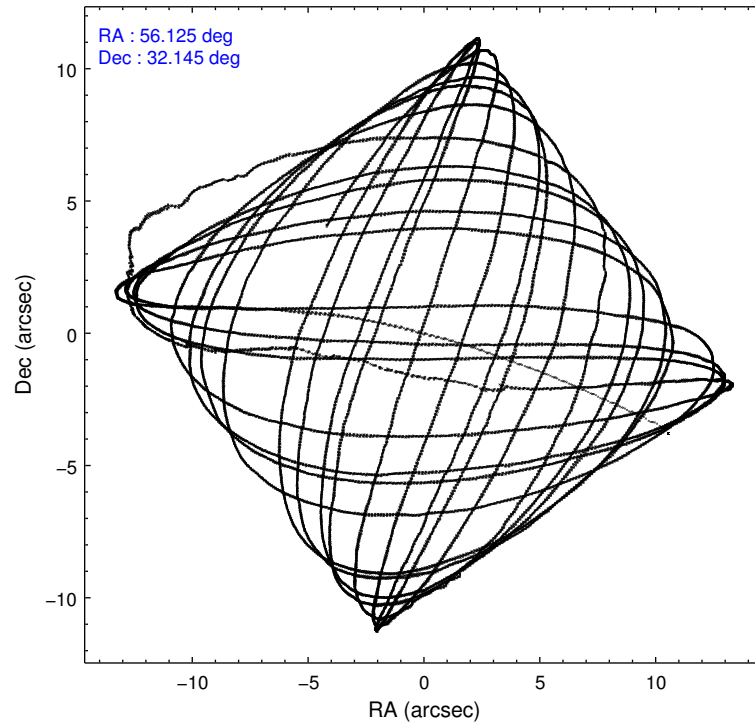
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	63356	61386	63683	65847	82647
rejected events	54407	51802	55512	56050	46520
rejected %	85%	84%	87%	85%	56%

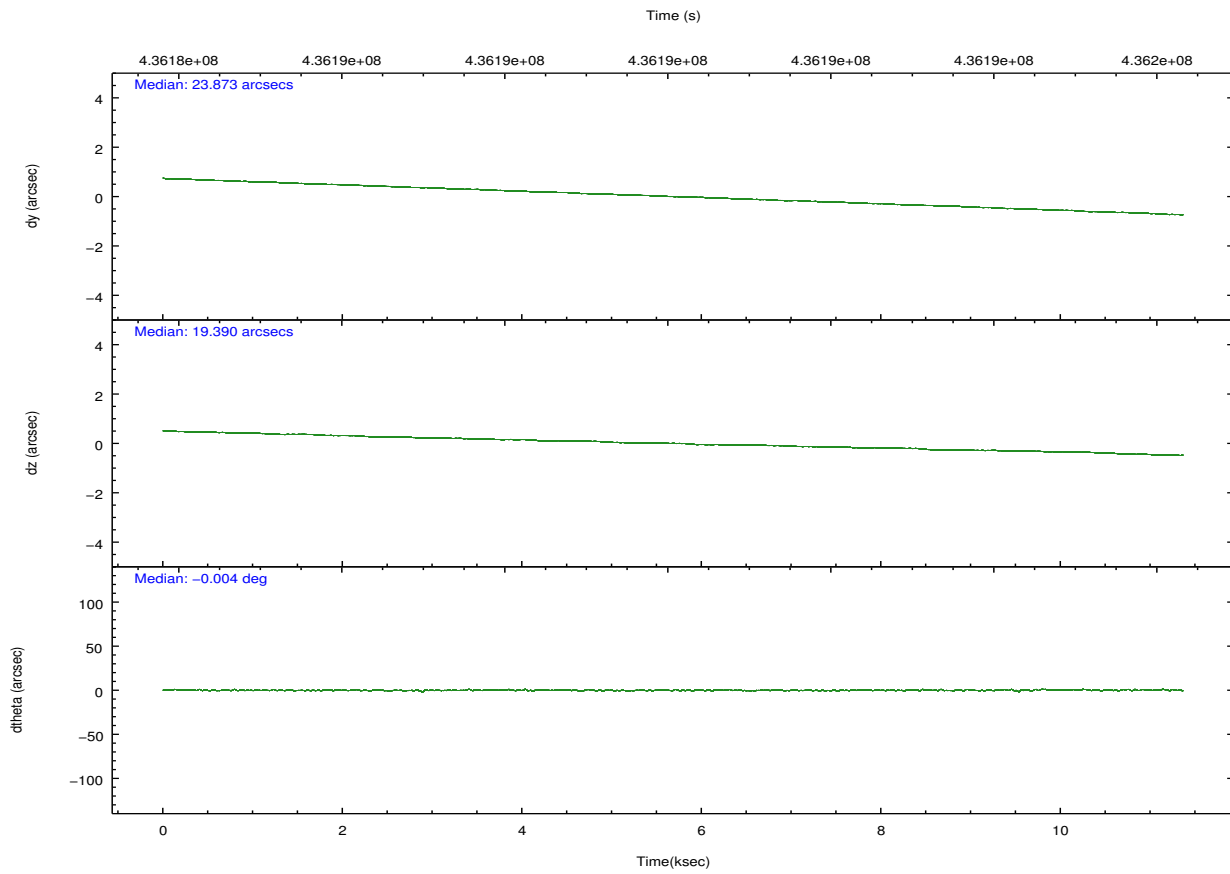
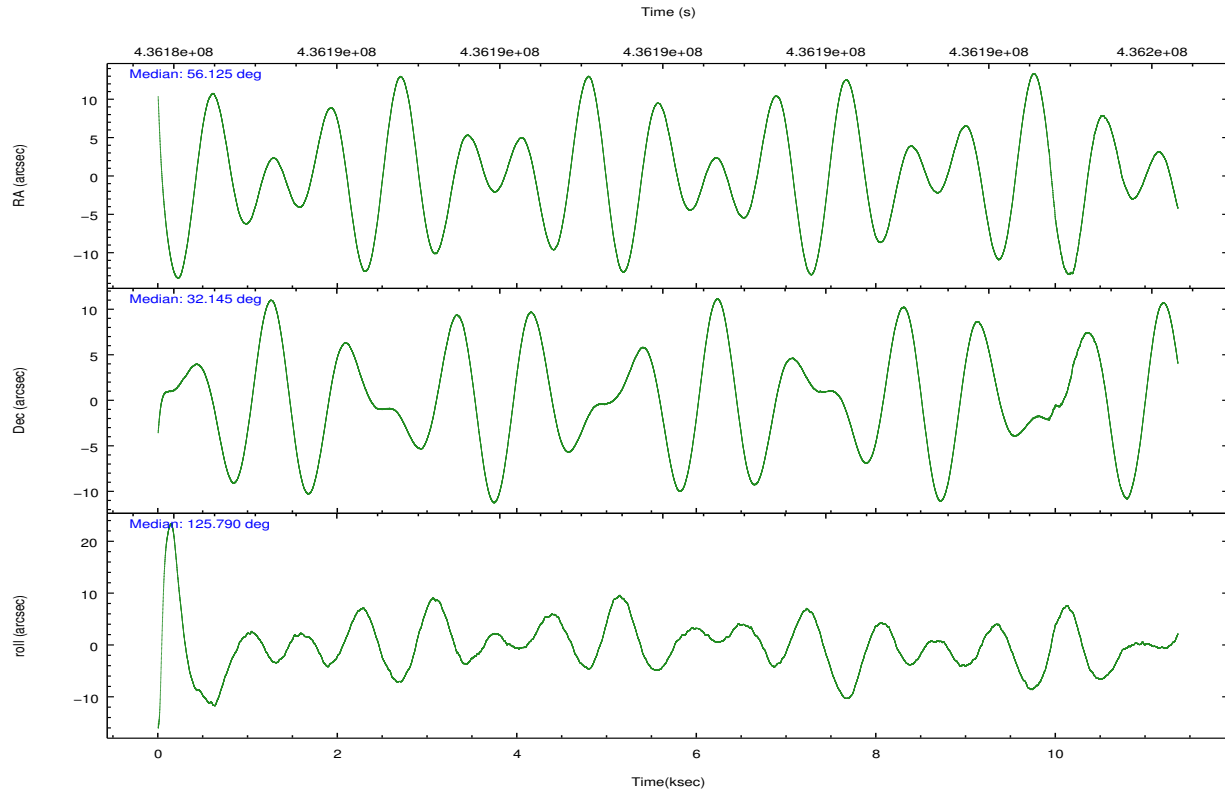
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3832	4057	3364	4745	3171
	6%	6%	5%	7%	3%
grade 1 events	3280	41	52	65	110
	5%	0%	0%	0%	0%
grade 2 events	1984	2099	1818	1879	7214
	3%	3%	2%	2%	8%
grade 3 events	879	844	743	824	3180
	1%	1%	1%	1%	3%
grade 4 events	793	863	800	749	3027
	1%	1%	1%	1%	3%
grade 5 events	2890	2972	2719	3240	8676
	4%	4%	4%	4%	10%
grade 6 events	1466	1722	1447	1604	19543
	2%	2%	2%	2%	23%
grade 7 events	48232	48788	52740	52741	37726
	76%	79%	82%	80%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	56.155002	56.12528847011943	CCD I2 on	Y	Y
[deg] Pointing Dec	32.134343	32.14555328698475	CCD I3 on	Y	Y
[deg] Pointing Roll	125.573044	125.7975042969643	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	436185251.184000	436182838.11412	CCD S5 on	N	N
Observation start date	2011-10-28T10:33:05	2011-10-28T09:53:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	436195751.184000	436196669.97734	On-chip summing requested	N	N
Observation end date	2011-10-28T13:28:05	2011-10-28T13:44:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



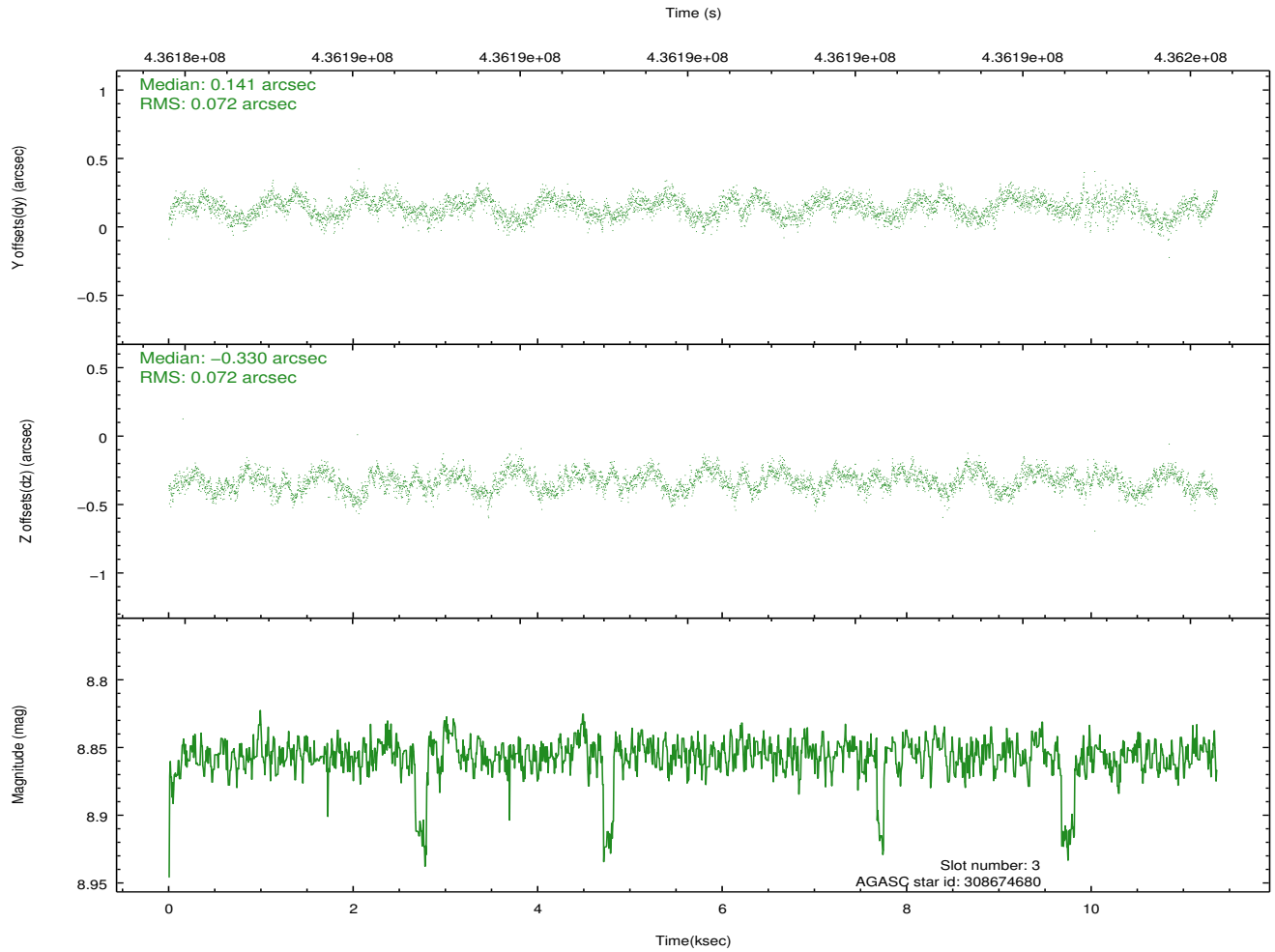
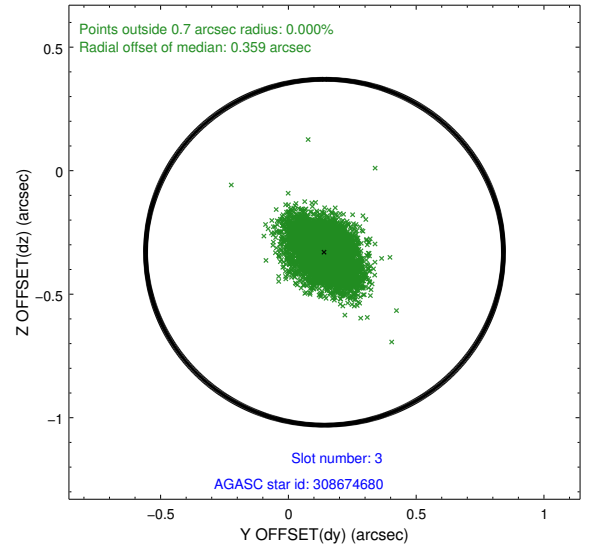
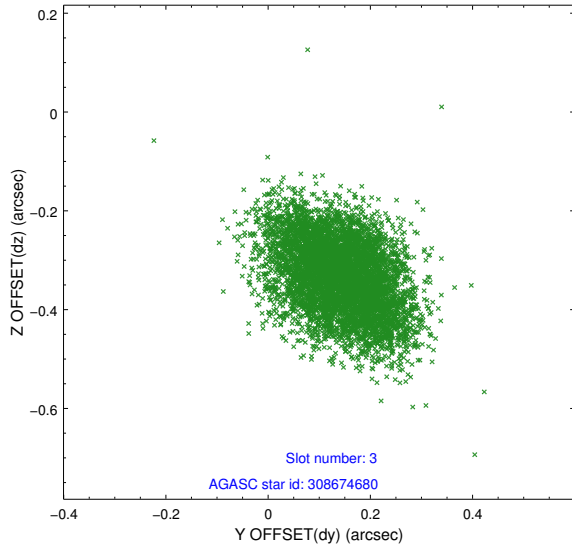


Slot Statistics

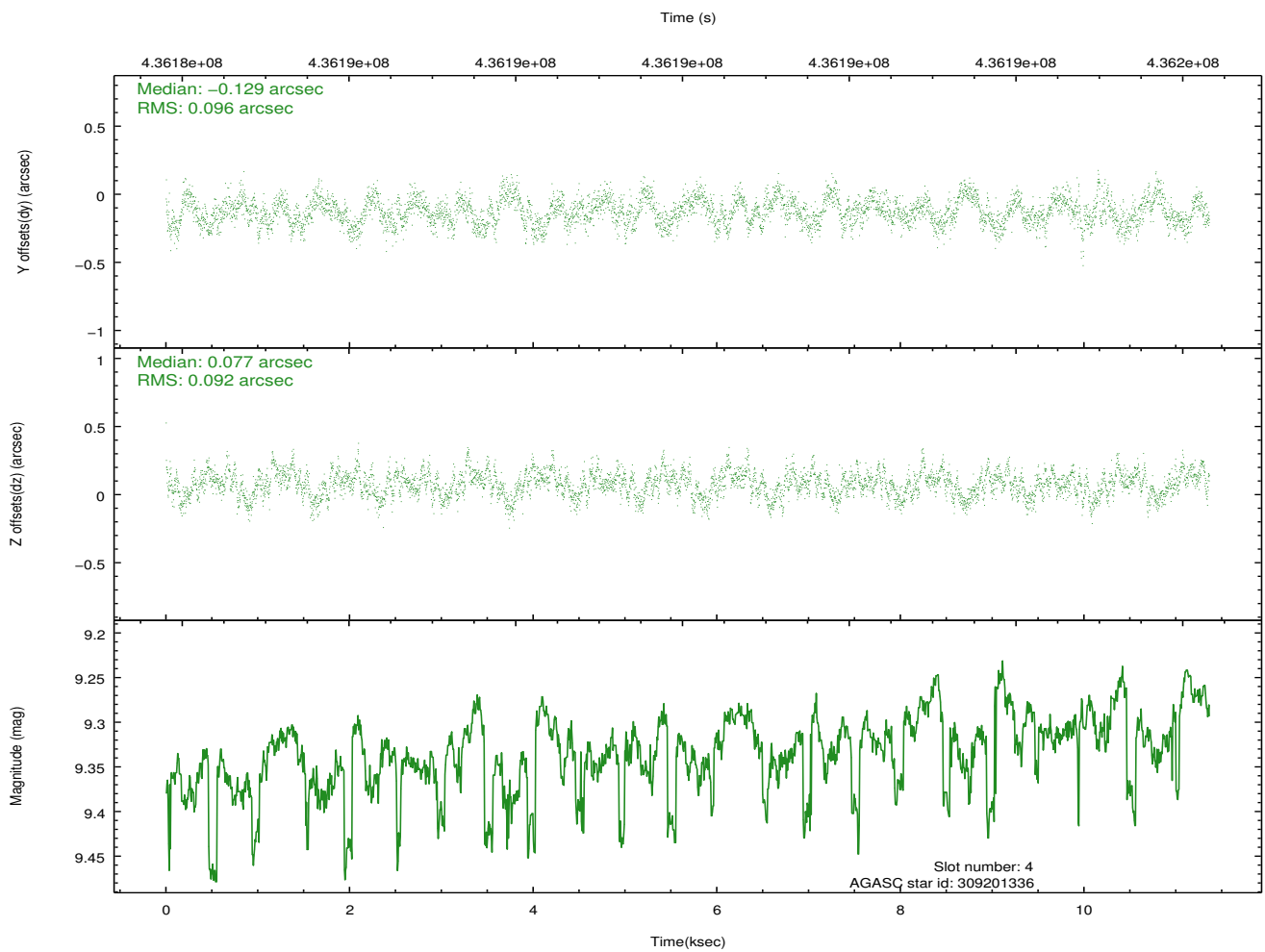
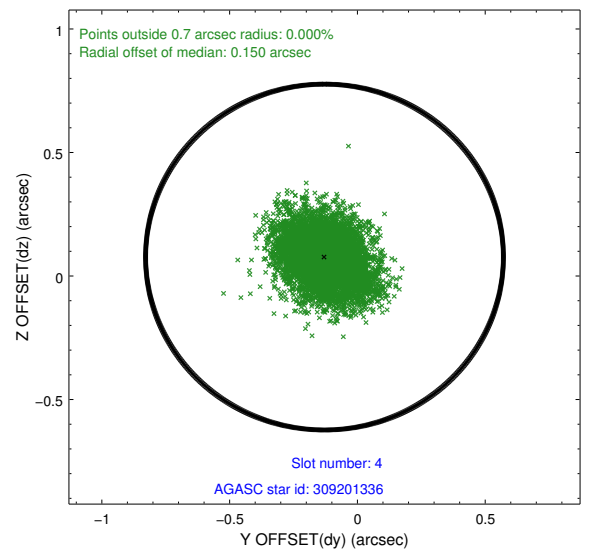
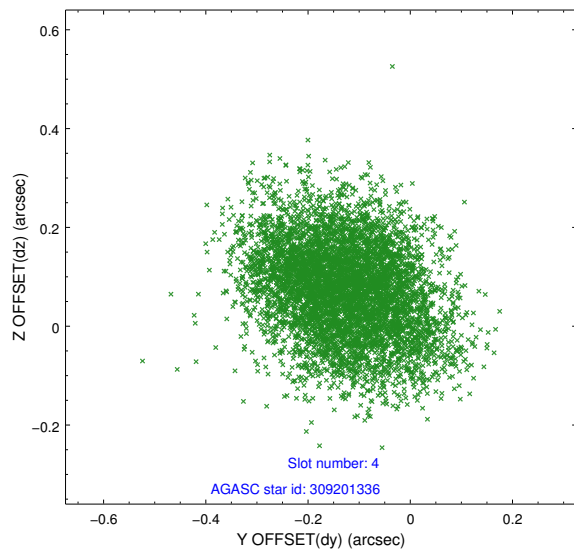
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	2772	0.072	-0.017	0.010	0.019	0.000000	0.000000	915.45	-843.09
1	FID	ACIS-I-5	7.02	2772	-0.340	0.043	0.008	0.013	0.000000	0.000000	-1832.90	1054.13
2	FID	ACIS-I-6	7.04	2772	0.177	0.047	0.012	0.020	0.000000	0.000000	380.50	1699.23
3	GUIDE	308674680	8.86	5525	0.141	-0.330	0.108	0.174	55.747345	31.652644	-681.71	2022.40
4	GUIDE	309201336	9.33	5504	-0.129	0.077	0.142	0.229	55.980135	32.629910	1759.67	-606.15
5	GUIDE	309205288	9.22	5502	0.068	0.030	0.117	0.194	55.920876	32.625581	1852.29	-451.37
6	GUIDE	309332904	7.54	5544	-0.129	0.104	0.063	0.106	56.362777	32.287653	82.34	-835.67
7	GUIDE	309336160	7.11	5543	0.045	0.129	0.098	0.155	56.670296	32.290187	-452.56	-1604.05

2.4 Star Slots

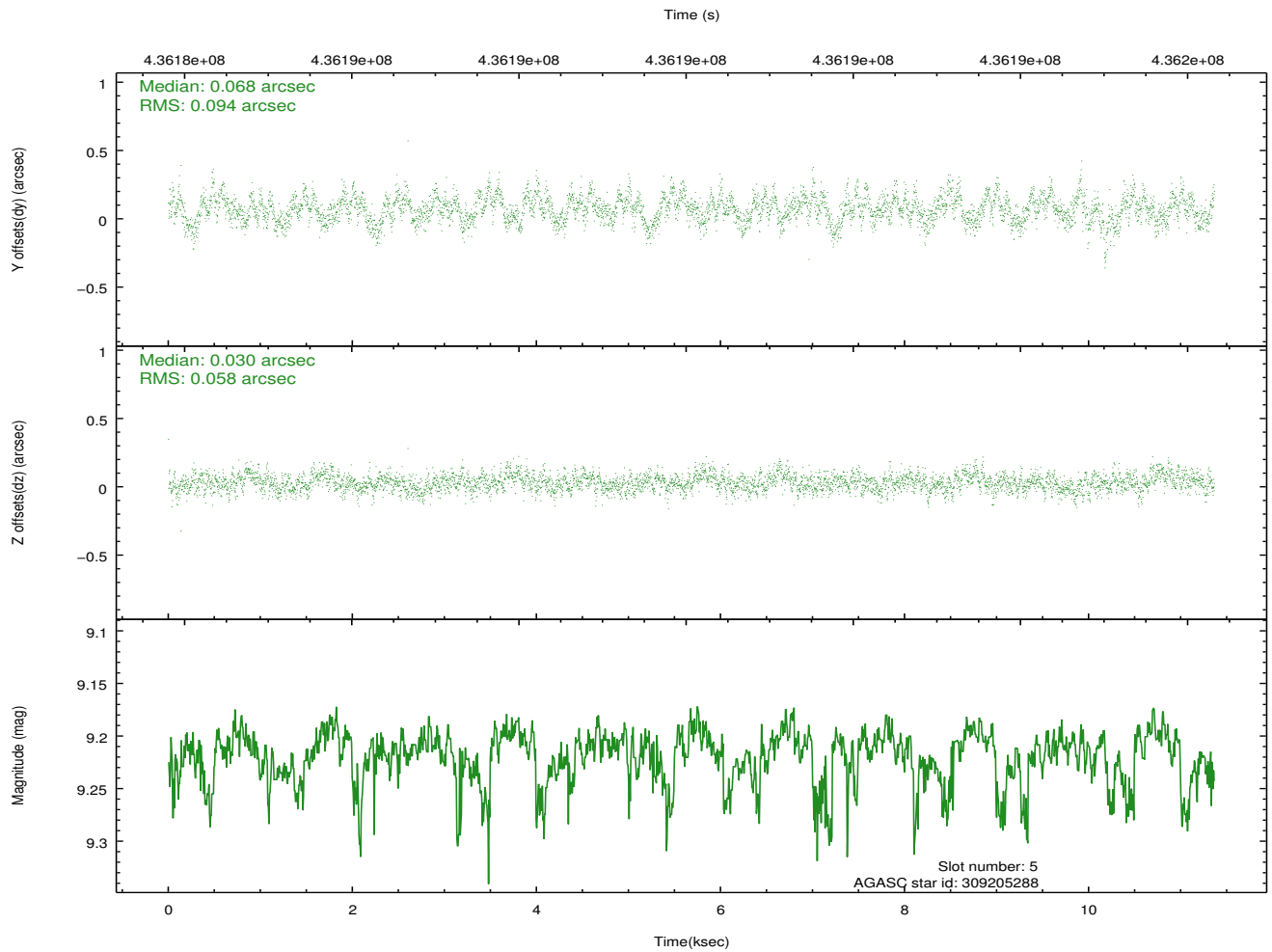
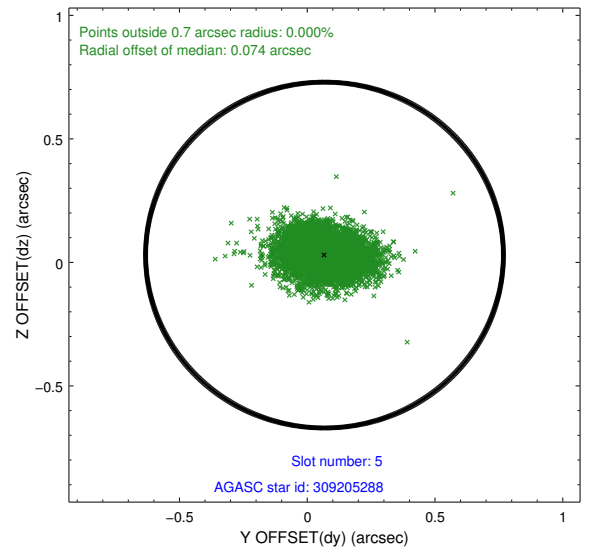
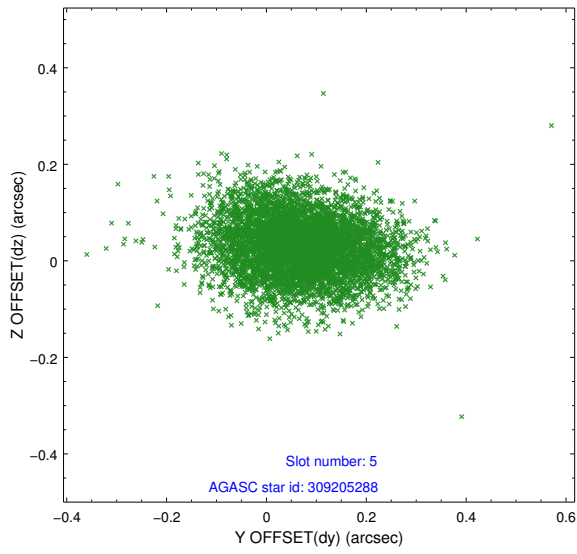
2.4.1 Slot 3



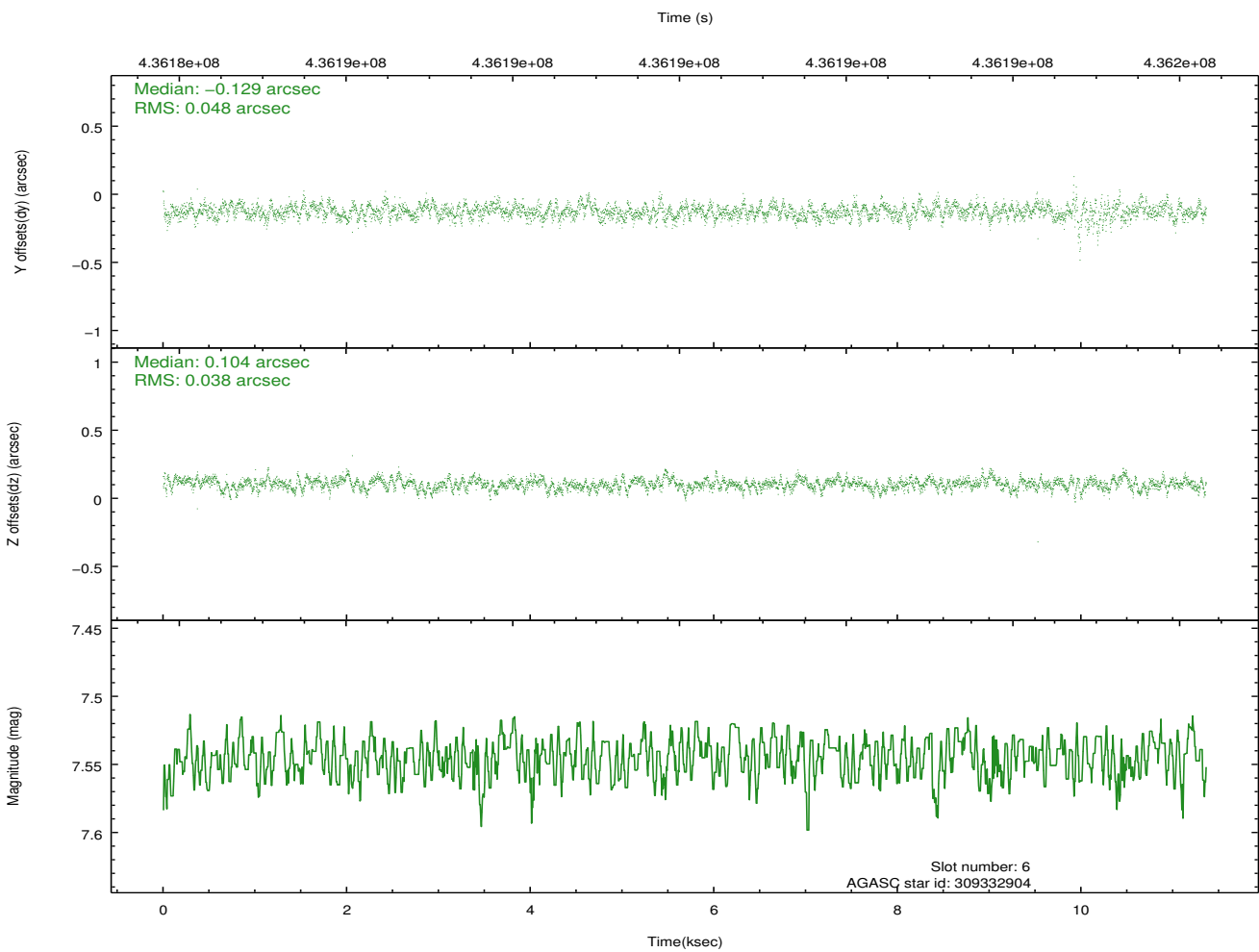
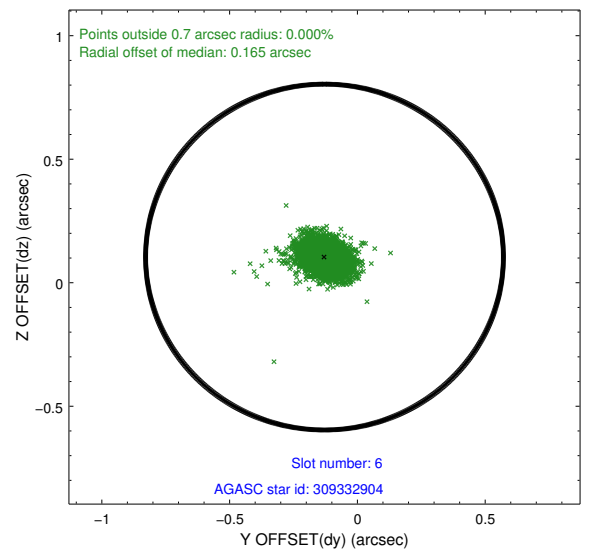
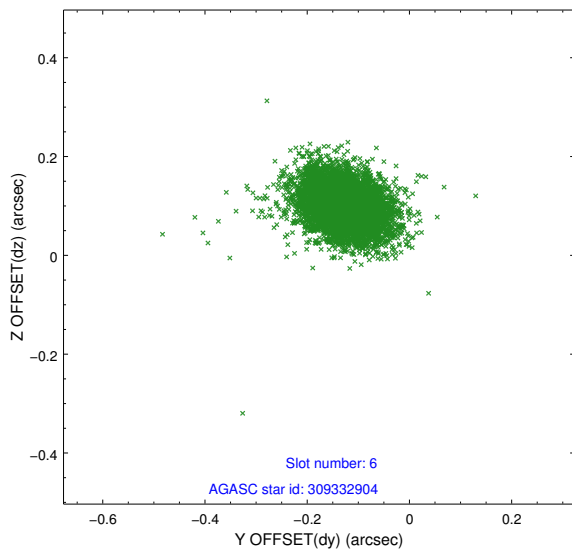
2.4.2 Slot 4



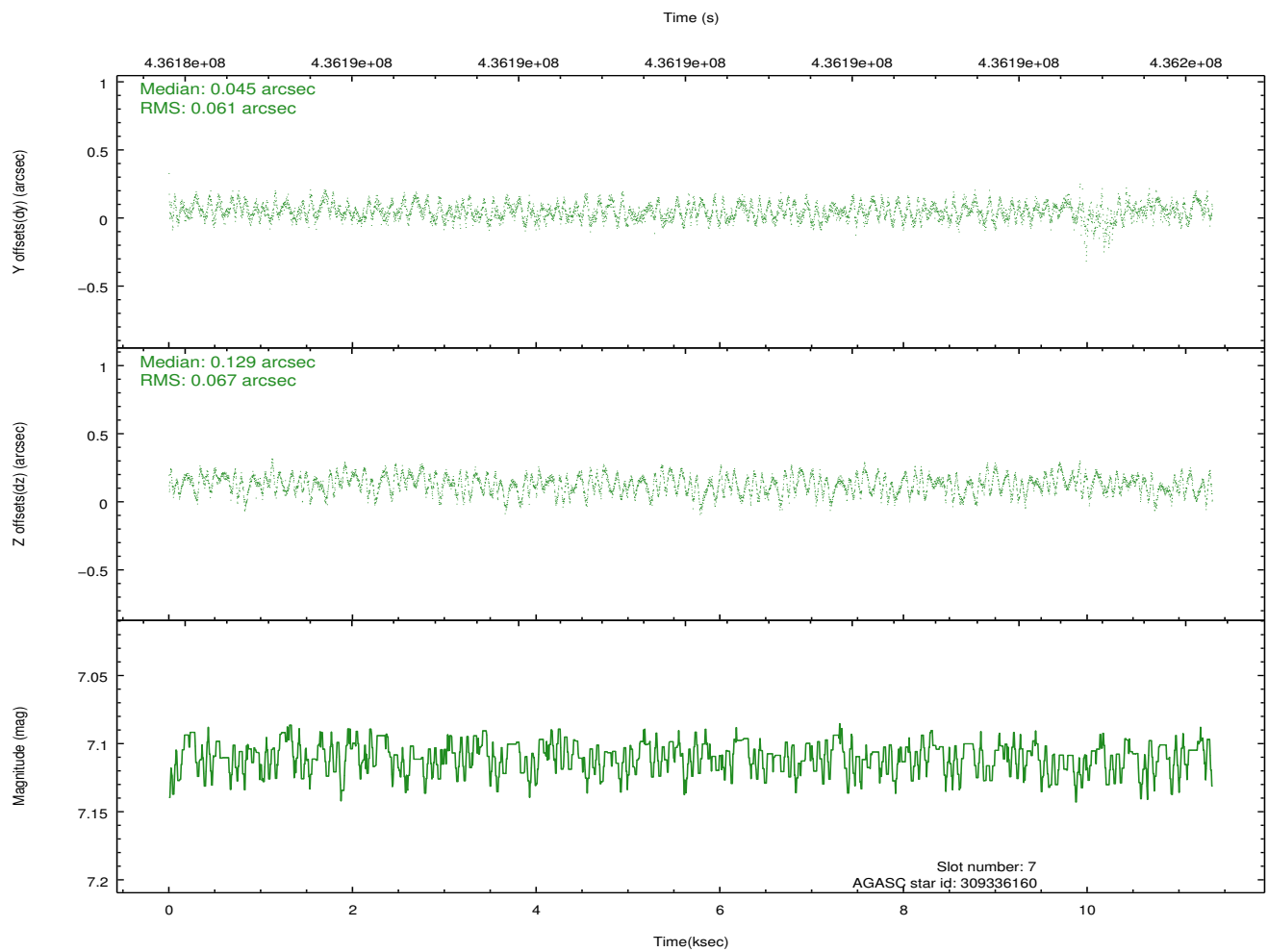
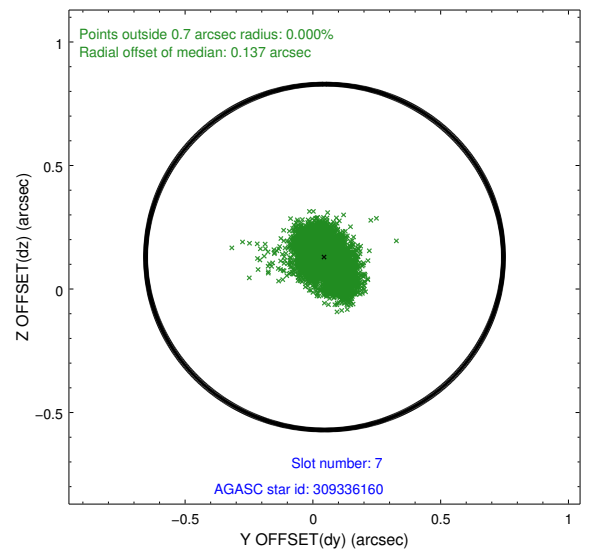
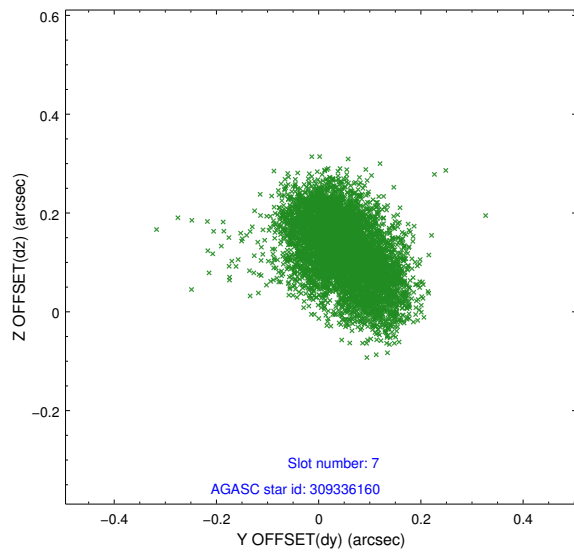
2.4.3 Slot 5



2.4.4 Slot 6

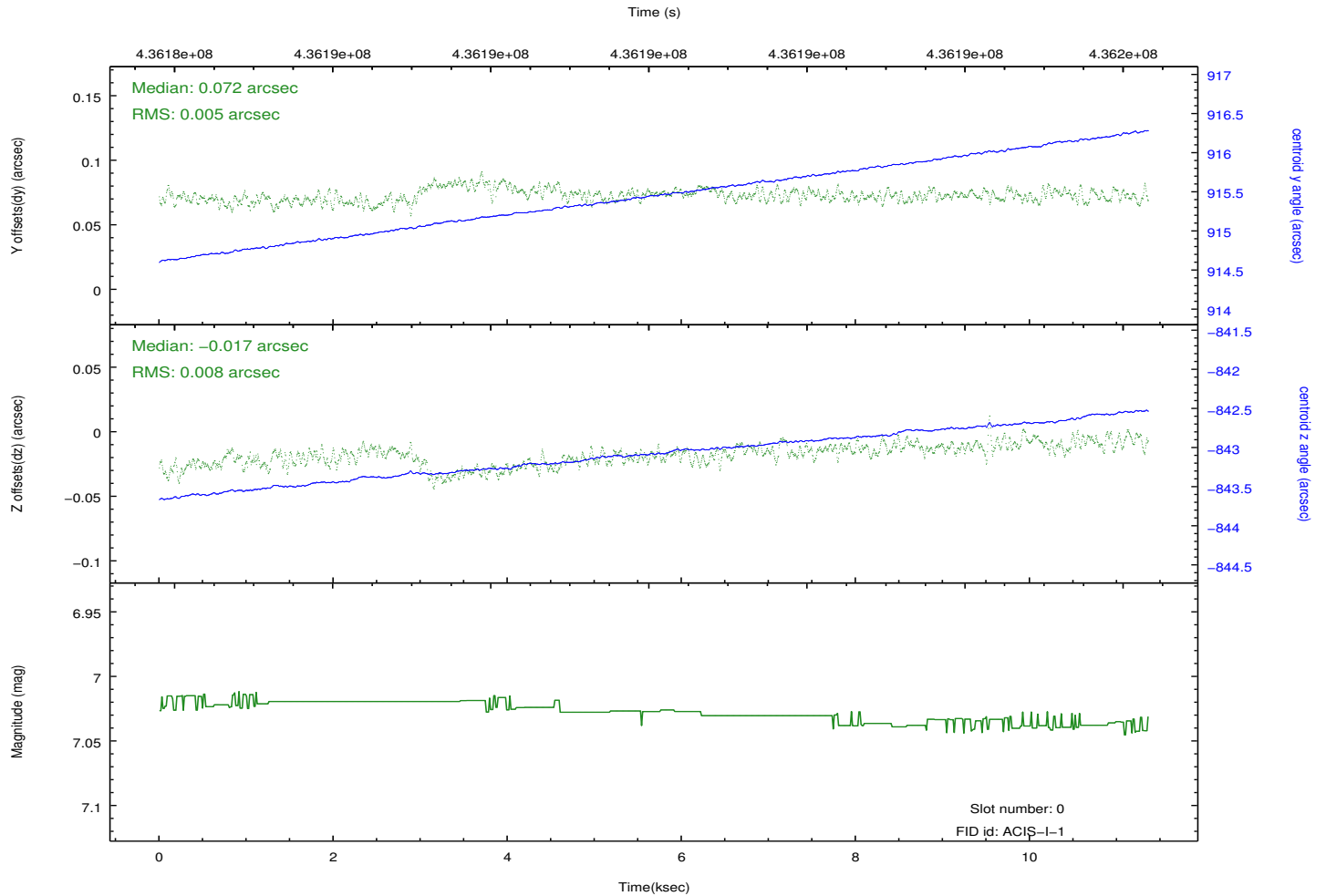
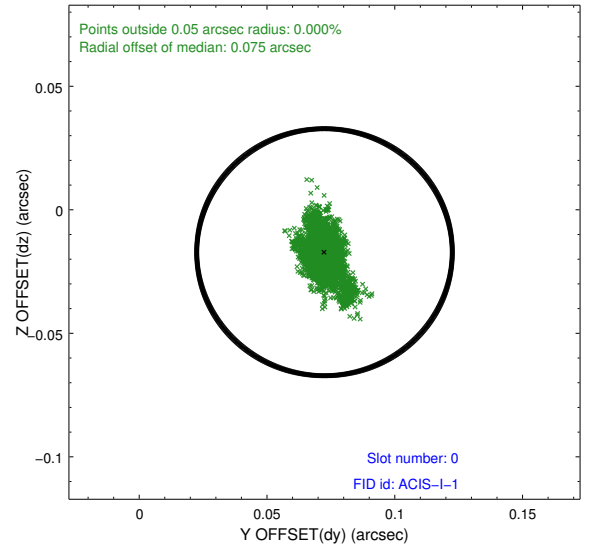
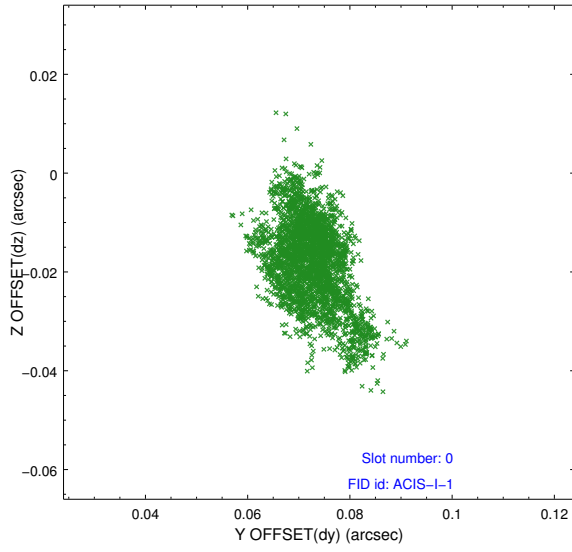


2.4.5 Slot 7

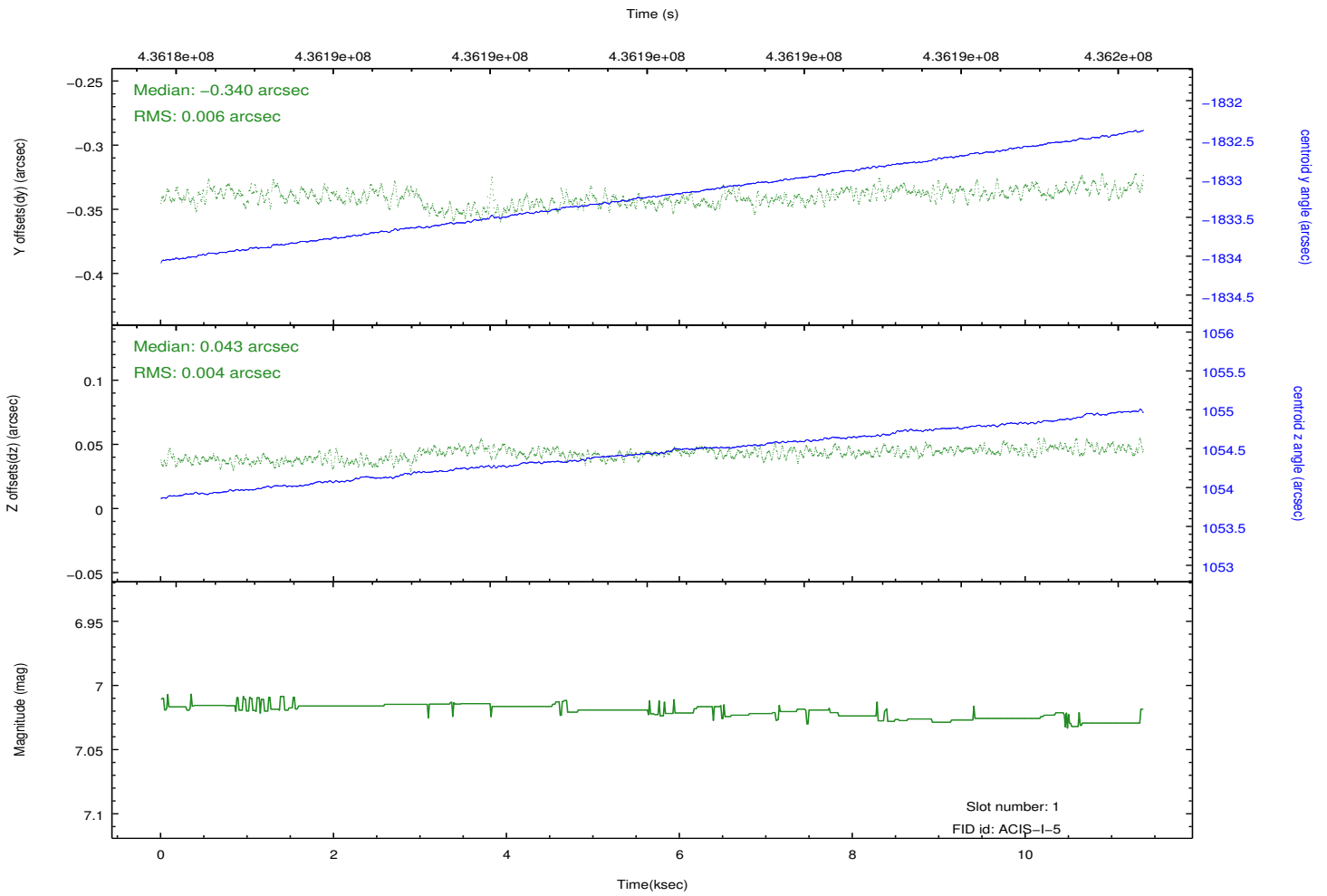
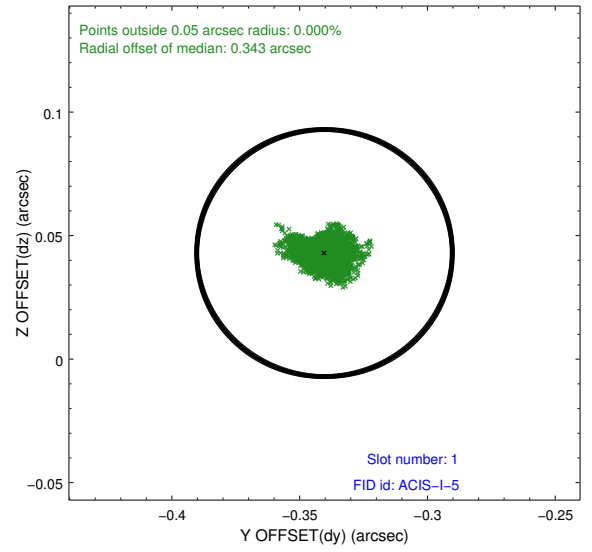
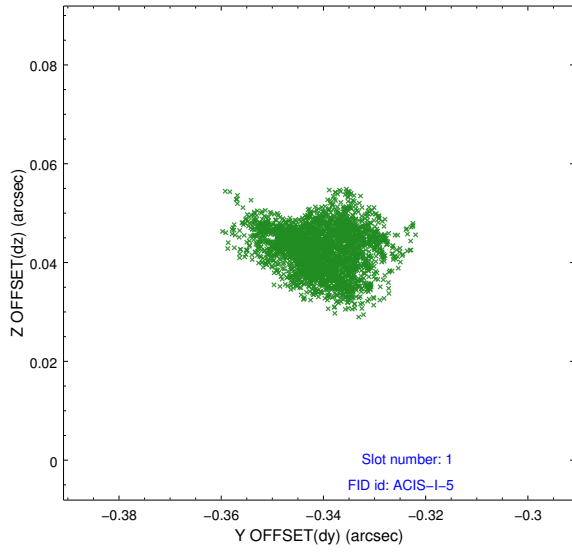


2.5 FID Slots

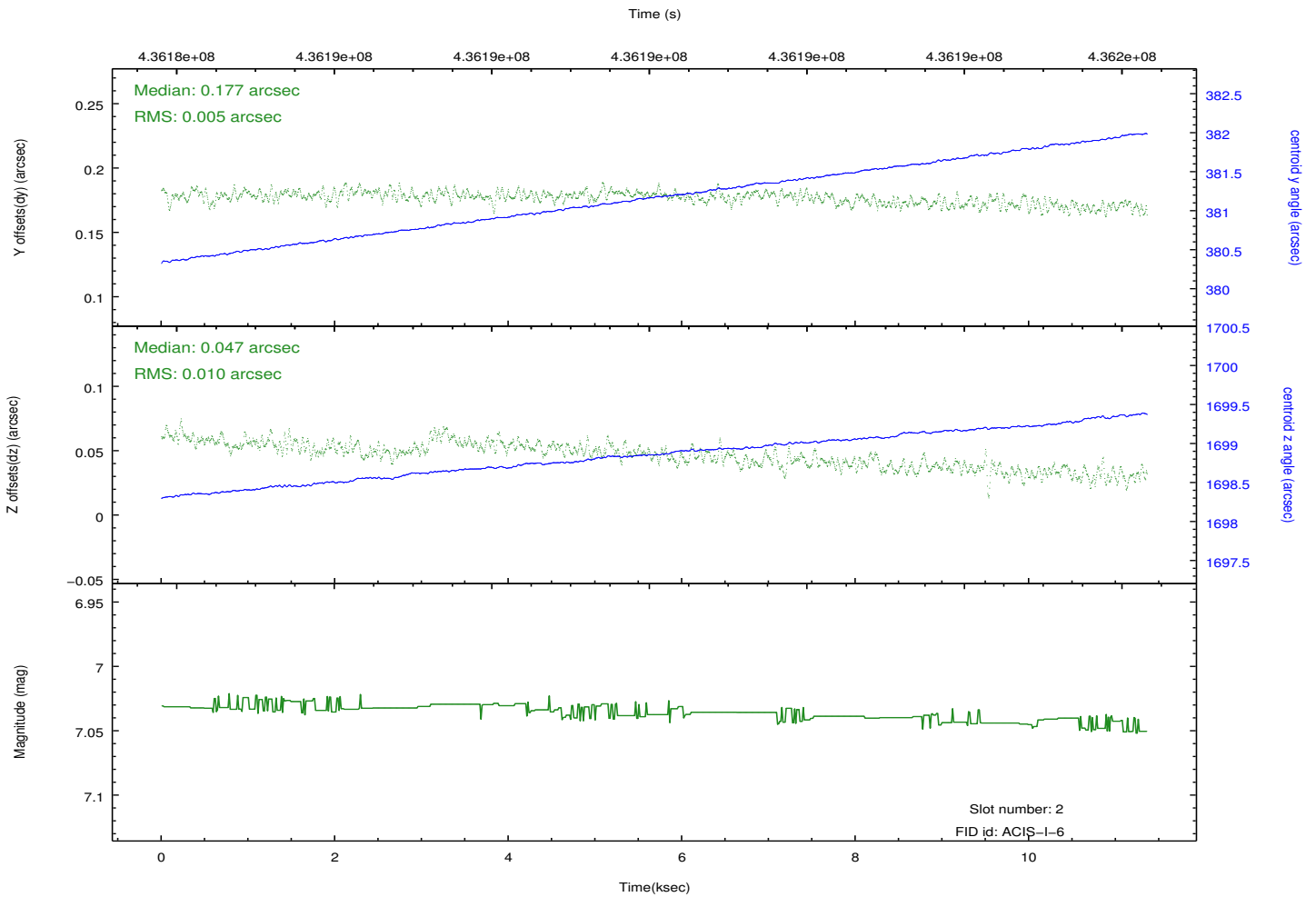
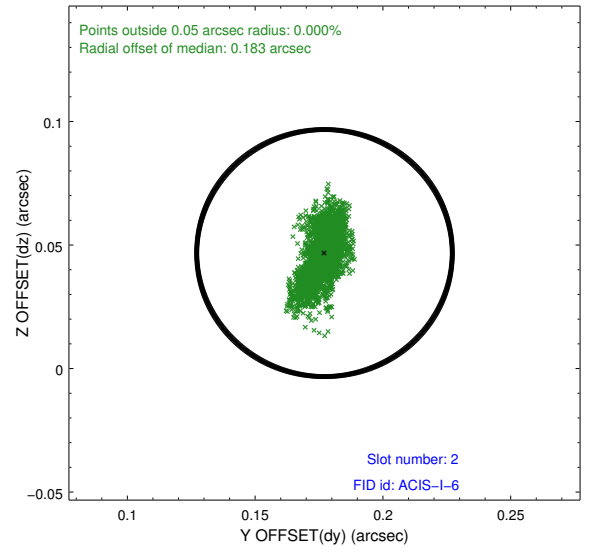
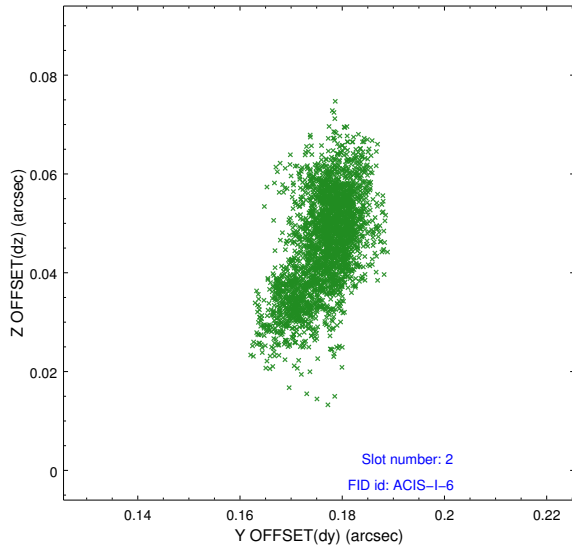
2.5.1 Slot 0



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)	2012.03.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.54620008111

A.2 Comments

Joint proposal: CX0-Spitzer

=====

A spatial region of the original bias map for CCD = 1 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 1 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(56.22624,32.12984), (56.24124,32.13903), (56.22863,32.15386), (56.20281,32.157349)