

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12697 - L2 Version 2
Chandra X-Ray Center

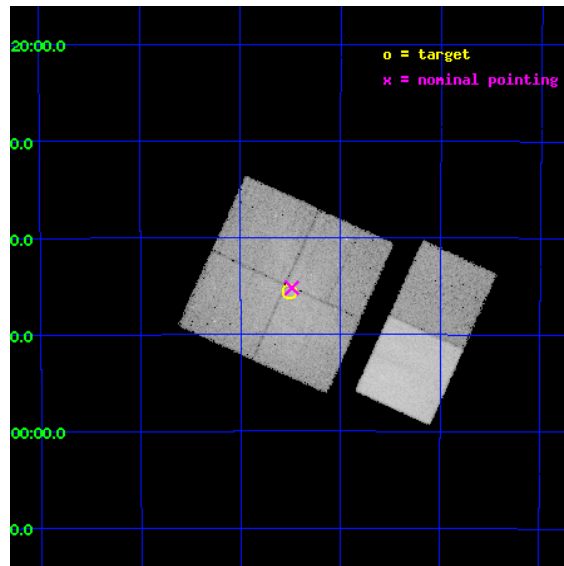
L2 Processing Date : Jul 4 2012

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1 Front

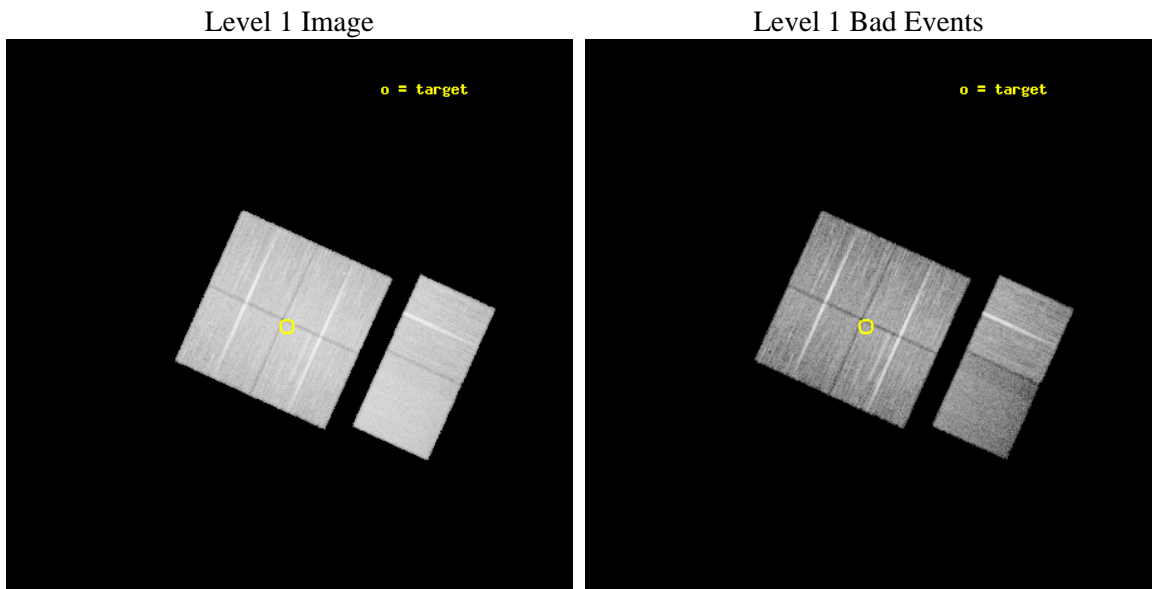
seq_num	501524	Sequence number
obs_id	12697	Observation id
title	A High Resolution Study of the Vela X Cocoon	Proposal title
observer	Dr. Patrick Slane	Principal investigator
object	Vela X Cocoon	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.629167	Observer's specified target RA [deg]
dec_targ	-45.759167	Observer's specified target Dec [deg]
ra_nom	128.62147080302	Nominal RA [deg]
dec_nom	-45.753111269001	Nominal Dec [deg]
roll_nom	114.39390845492	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23353.599913061	Sum of GTIs [s]
livetime	23057.882569112	Livetime [s]
ontime0	23353.599913061	Sum of GTIs [s]
ontime1	23353.599913061	Sum of GTIs [s]
ontime2	23347.117942572	Sum of GTIs [s]
ontime3	23353.599913061	Sum of GTIs [s]
ontime6	23347.117942512	Sum of GTIs [s]
ontime7	23353.599913061	Sum of GTIs [s]
l2events	267856	Number of level 2 events



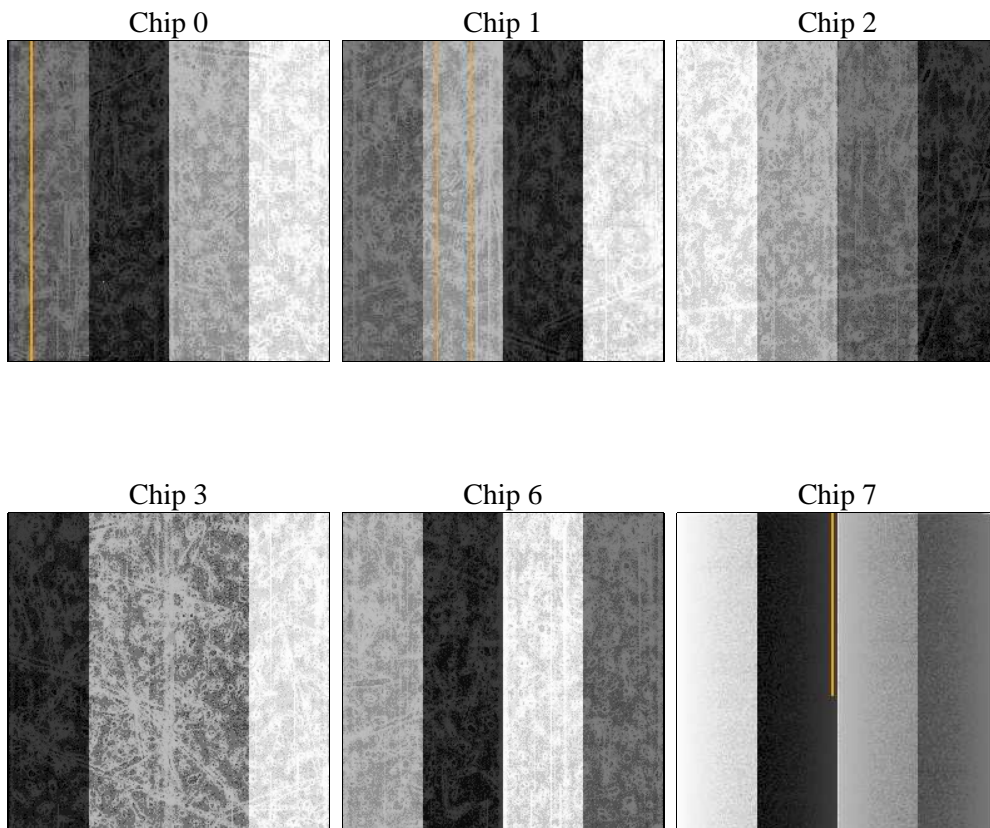
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23302.764000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	23353.599913061	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	23353.599913061	Sum of GTIs [s]
date	2012-07-04T03:17:05	Date and time of file creation	ontime1	23353.599913061	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23347.117942572	Sum of GTIs [s]
			ontime3	23353.599913061	Sum of GTIs [s]
			ontime6	23347.117942512	Sum of GTIs [s]
			ontime7	23353.599913061	Sum of GTIs [s]
			l1events	1045926	Number of level 1 events

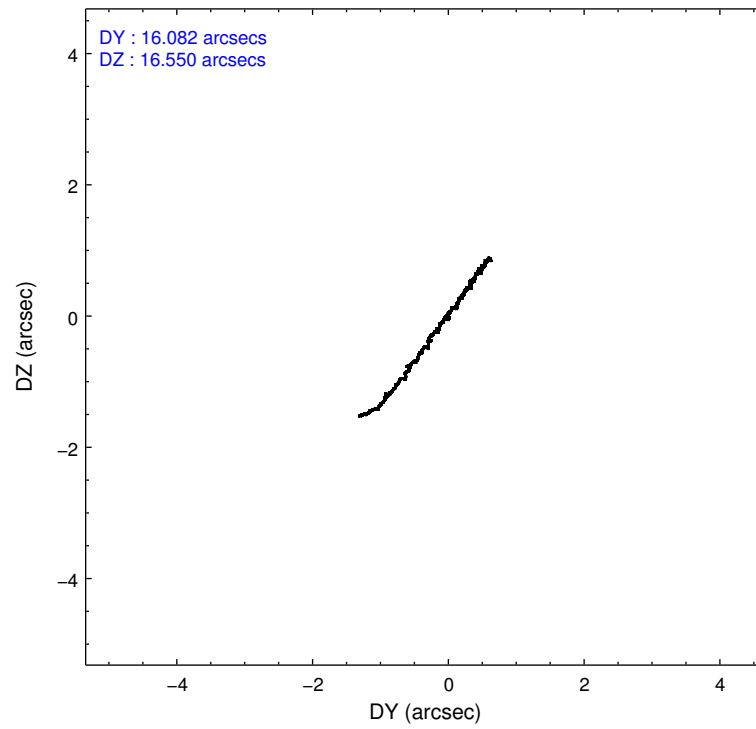
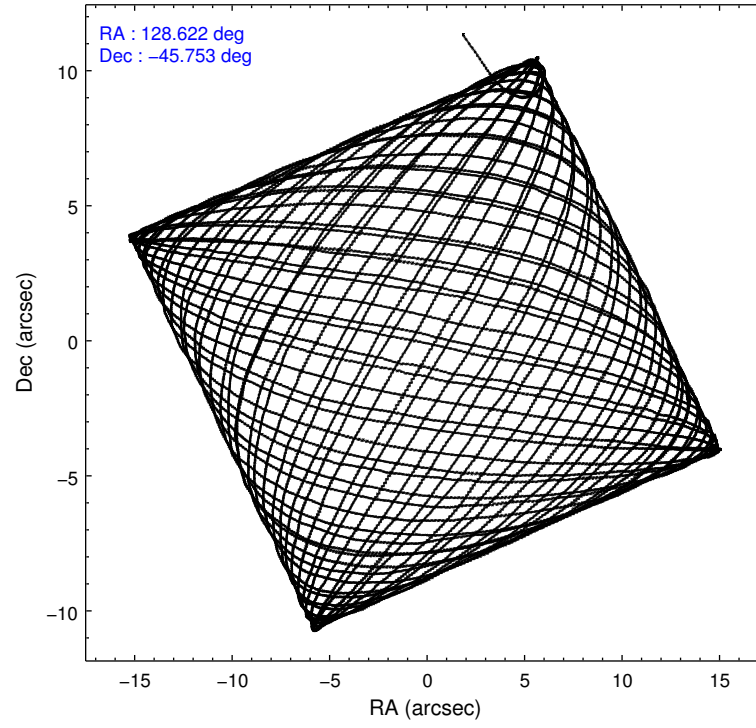
2.1.4 Events

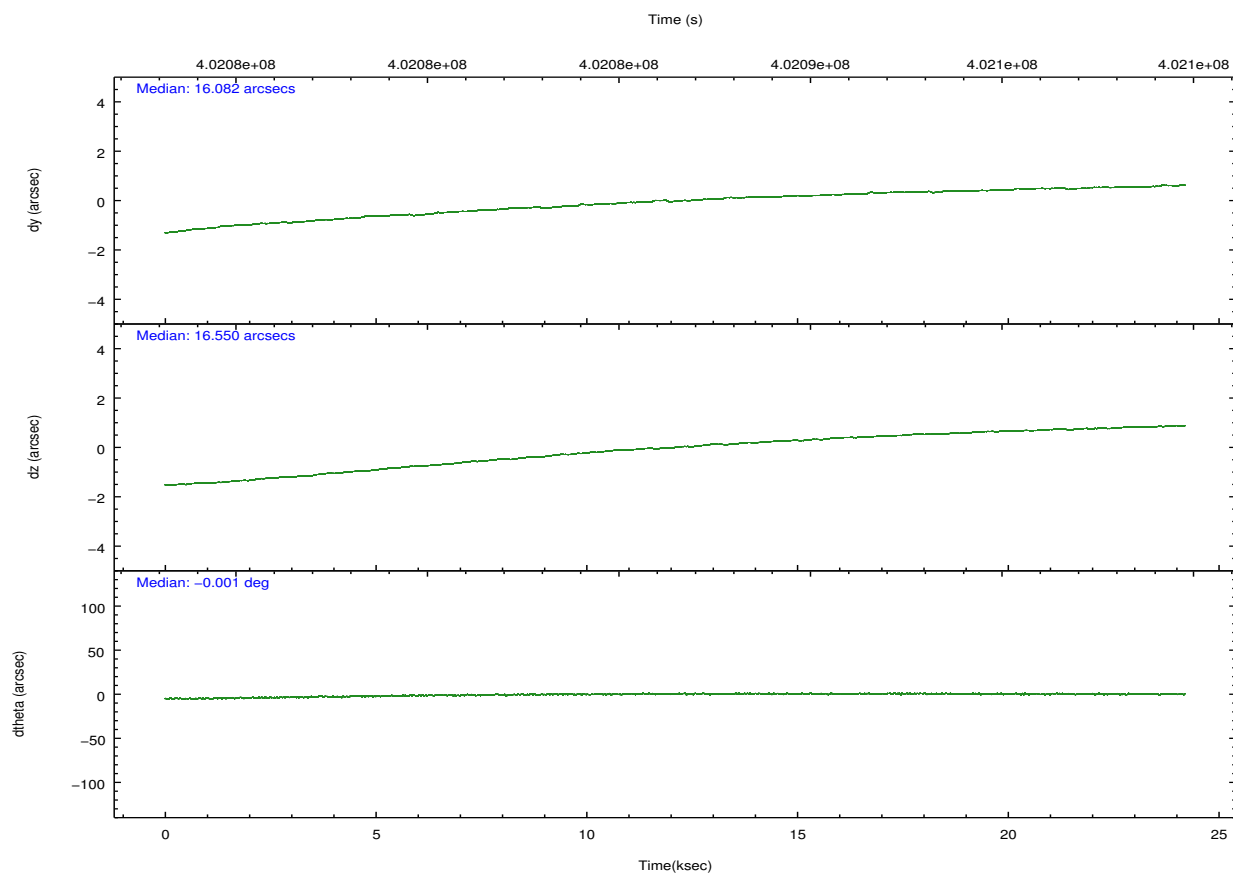
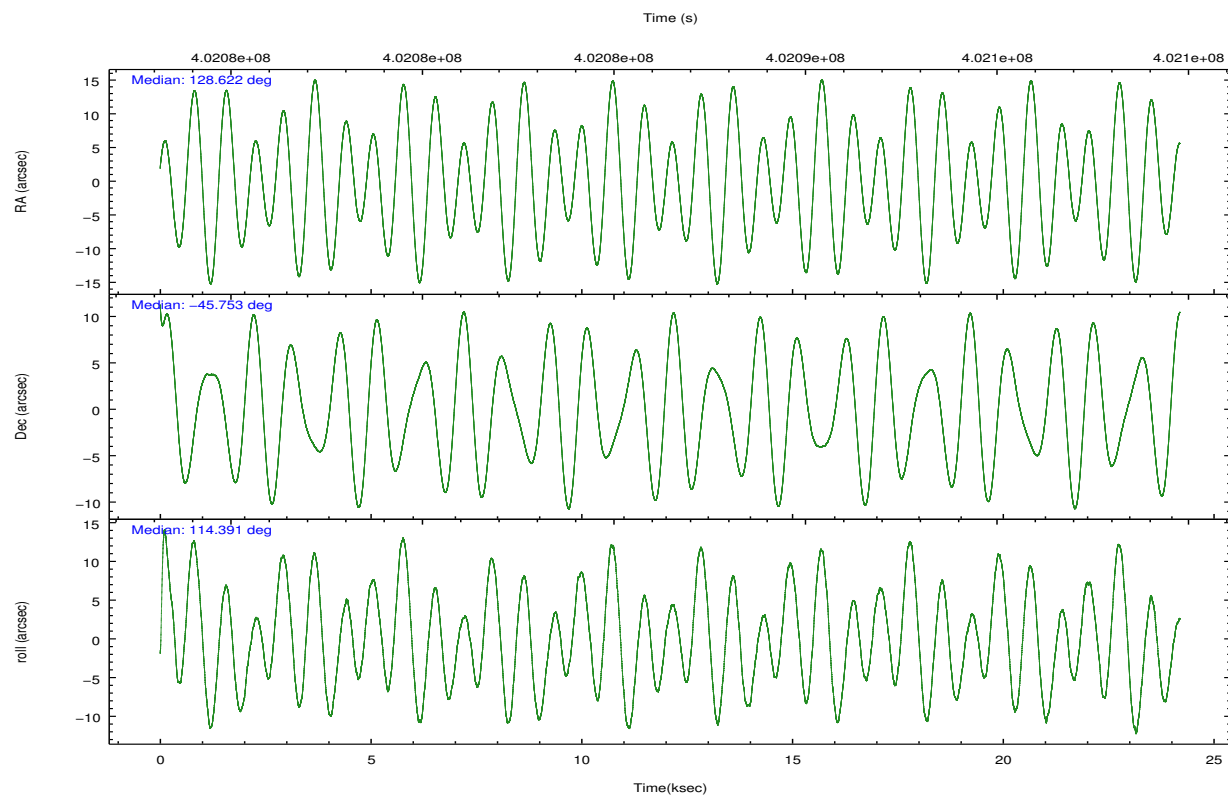
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	163111	161535	182070	177406	171427	190377	grade 0 events	23513	24009	23985	28512	16493	19075
rejected events	126013	123385	144971	135439	142303	83558		14%	14%	13%	16%	9%	10%
rejected %	77%	76%	79%	76%	83%	43%	grade 1 events	152	139	198	221	112	266
								0%	0%	0%	0%	0%	0%
							grade 2 events	5730	5624	5733	5600	4897	24172
								3%	3%	3%	3%	2%	12%
							grade 3 events	2221	2310	2141	2275	2053	10170
								1%	1%	1%	1%	1%	5%
							grade 4 events	2162	2383	2078	2201	1956	10187
								1%	1%	1%	1%	1%	5%
							grade 5 events	5227	5828	4862	6087	6317	17602
								3%	3%	2%	3%	3%	9%
							grade 6 events	3479	3831	3165	3382	3727	43227
								2%	2%	1%	1%	2%	22%
							grade 7 events	120627	117411	139908	129128	135872	65678
								73%	72%	76%	72%	79%	34%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	128.653607	128.6214708030224	CCD I2 on	Y	Y
[deg] Pointing Dec	-45.769044	-45.75311126900085	CCD I3 on	Y	Y
[deg] Pointing Roll	114.208256	114.3939084549244	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	402075255.184000	402073748.4401	CCD S5 on	N	N
Observation start date	2010-09-28T15:33:09	2010-09-28T15:09:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	402098558.184000	402098799.44138	On-chip summing requested	N	N
Observation end date	2010-09-28T22:01:32	2010-09-28T22:06:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



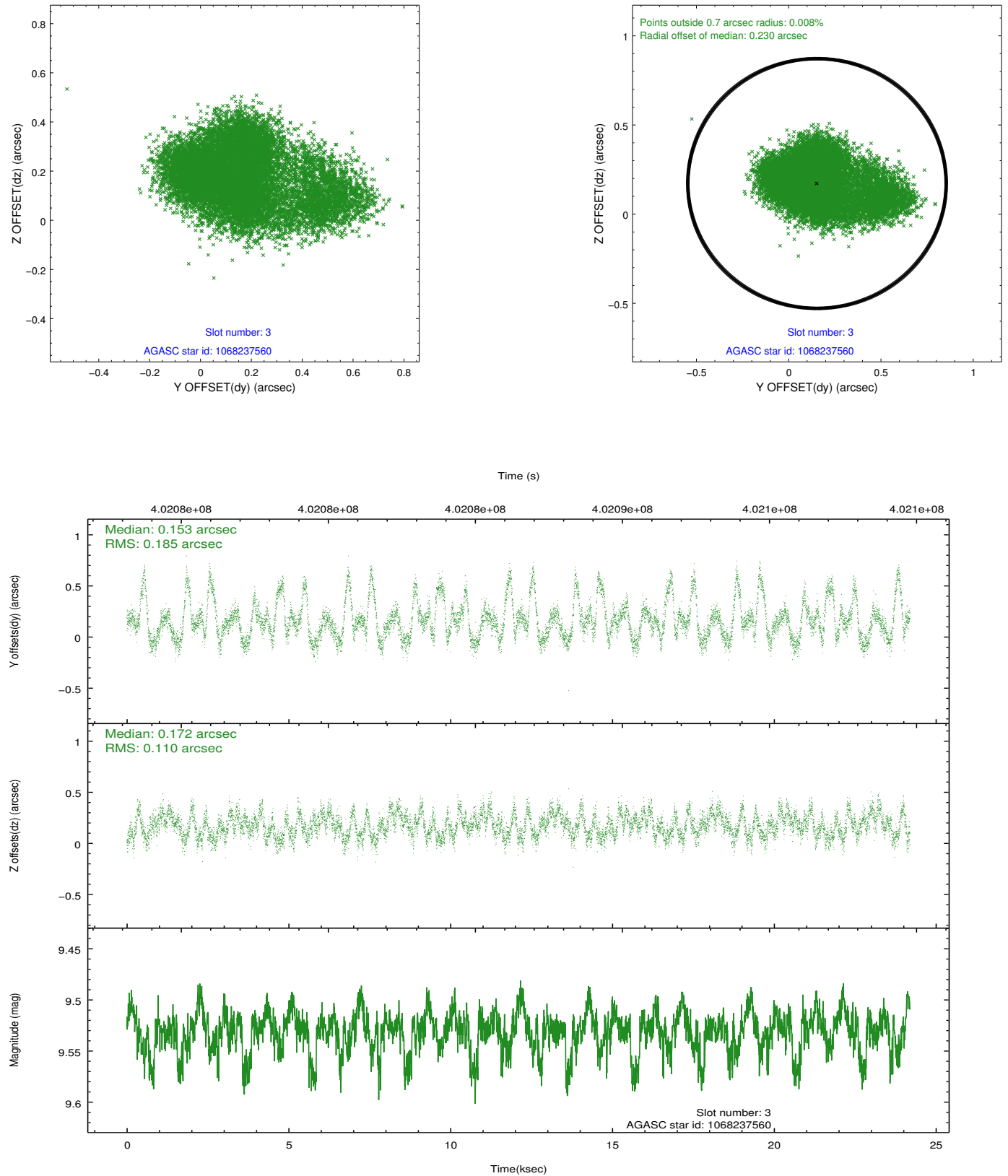


Slot Statistics

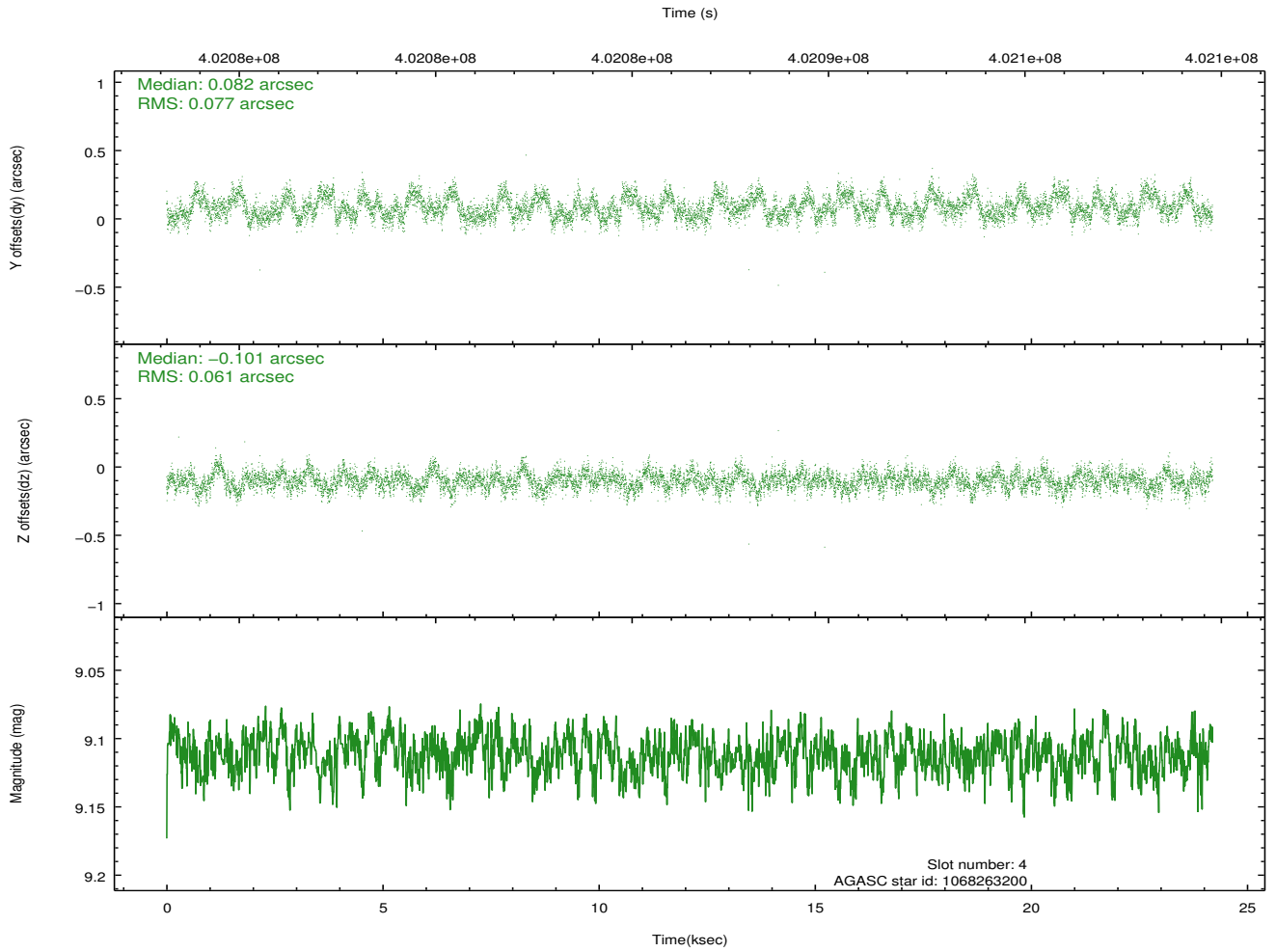
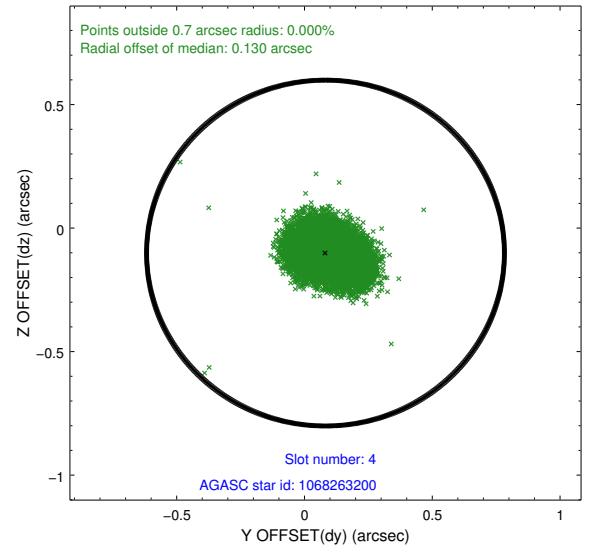
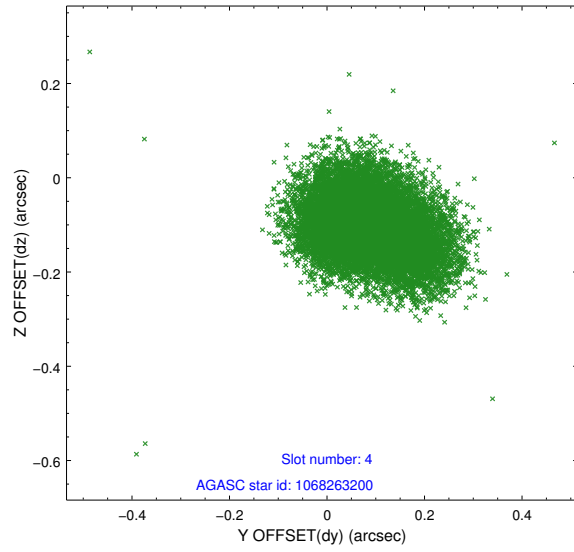
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	5902	0.064	-0.040	0.012	0.032	0.000000	0.000000	923.52	-840.10
1	FID	ACIS-I-5	7.02	5902	-0.224	0.062	0.012	0.023	0.000000	0.000000	-1824.79	1057.44
2	FID	ACIS-I-6	7.03	5902	0.067	0.049	0.017	0.028	0.000000	0.000000	388.95	1702.06
3	GUIDE	1068237560	9.53	11787	0.153	0.172	0.218	0.396	129.276963	-46.169505	-1957.24	-823.61
4	GUIDE	1068263200	9.11	11787	0.082	-0.101	0.105	0.168	128.222628	-45.344390	1838.92	368.90
5	GUIDE	1068269528	7.50	11799	-0.122	-0.004	0.106	0.177	127.902889	-45.784783	713.08	1745.87
6	GUIDE	1068270344	8.50	11796	-0.168	-0.025	0.126	0.199	128.097487	-45.785157	515.21	1299.46
7	GUIDE	1068269936	8.66	11794	0.052	-0.029	0.094	0.160	128.470567	-46.228351	-1321.57	1094.08

2.4 Star Slots

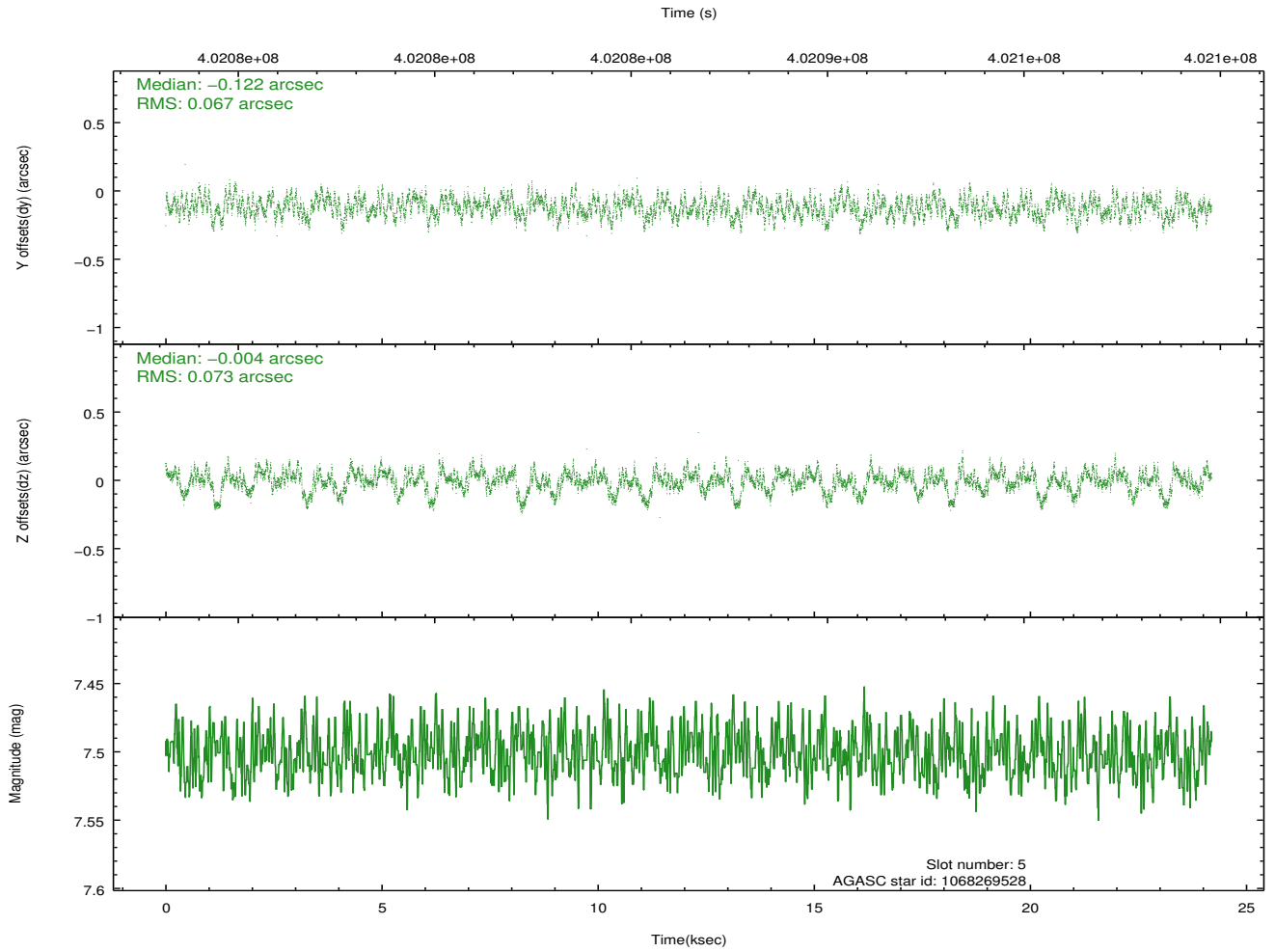
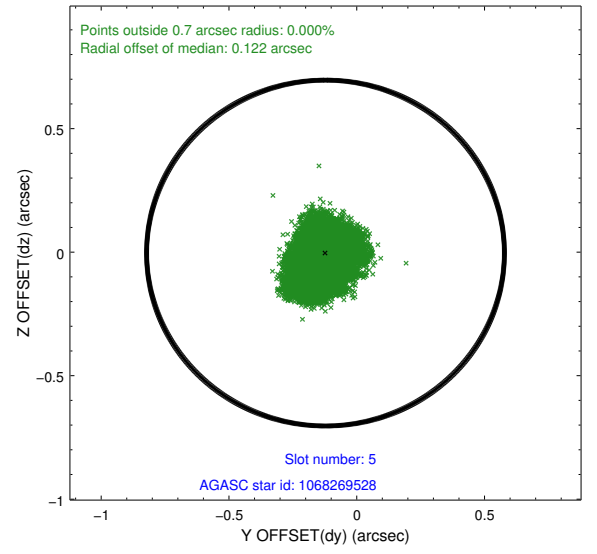
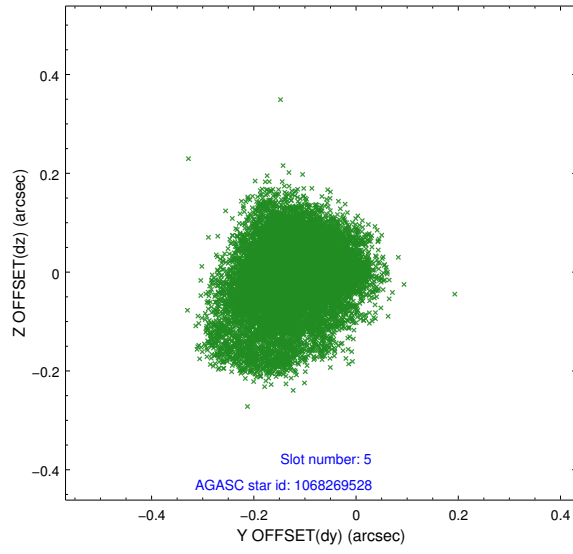
2.4.1 Slot 3



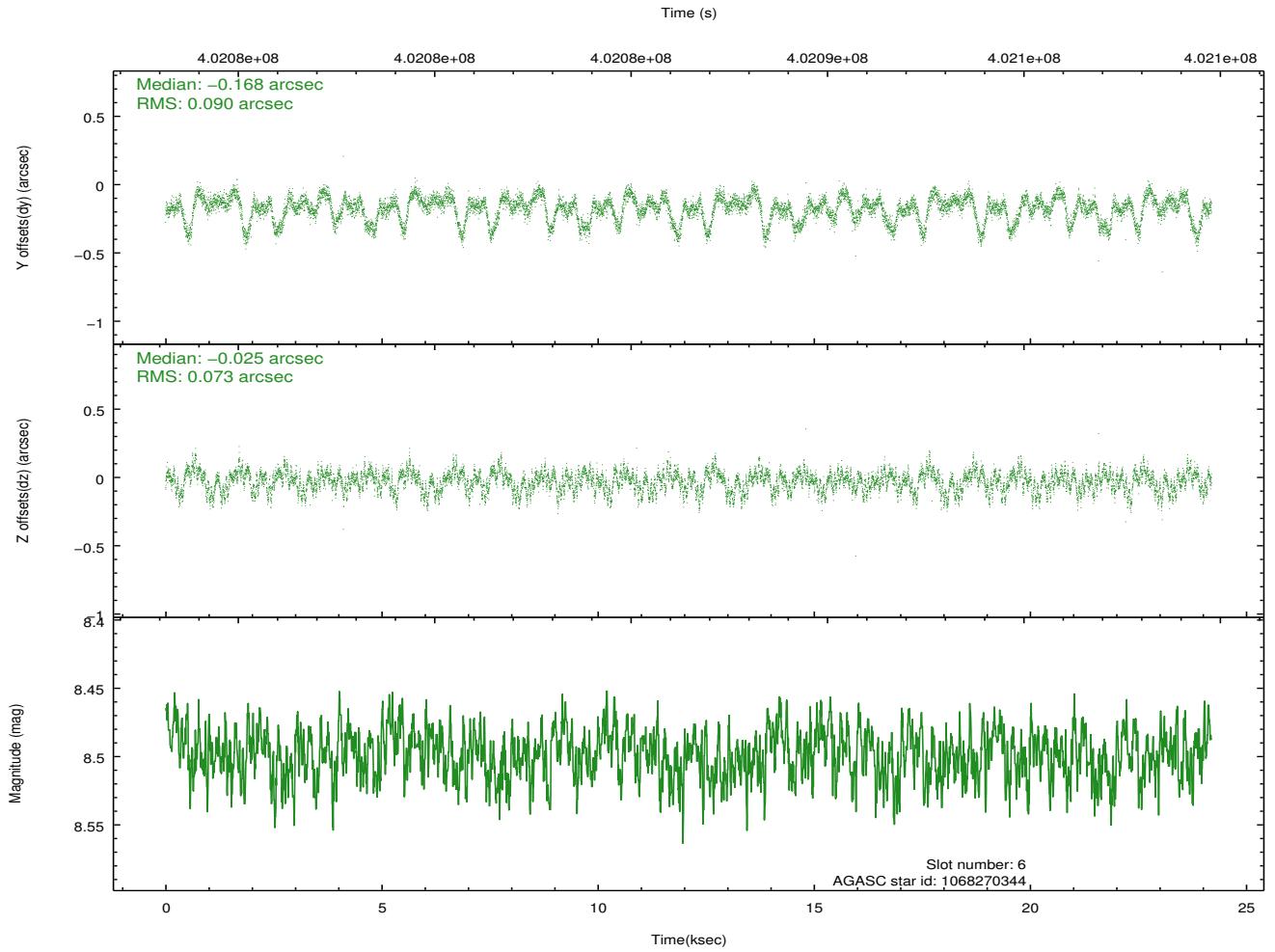
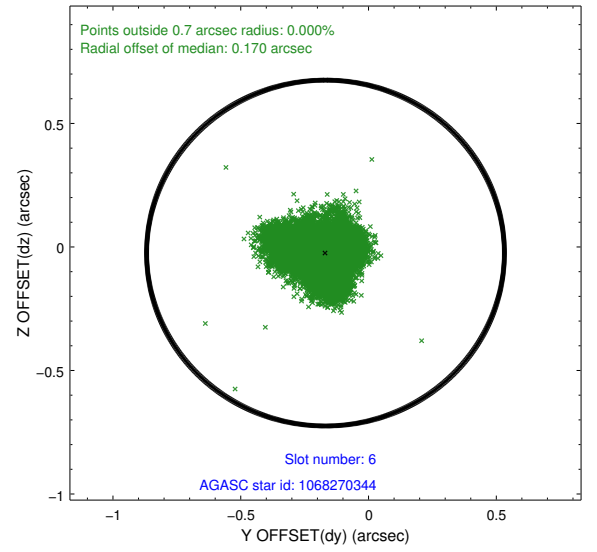
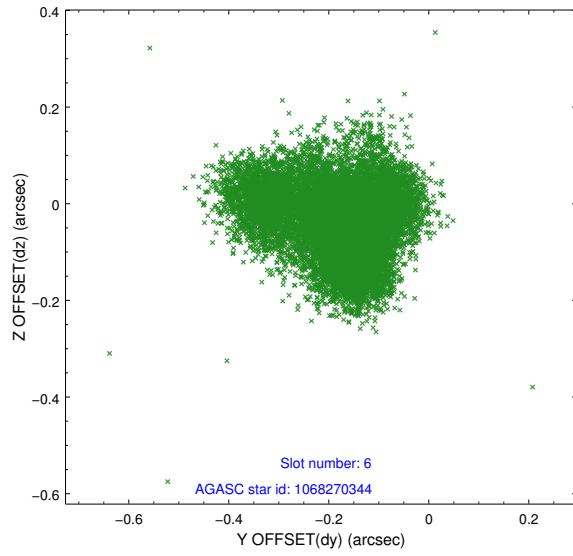
2.4.2 Slot 4



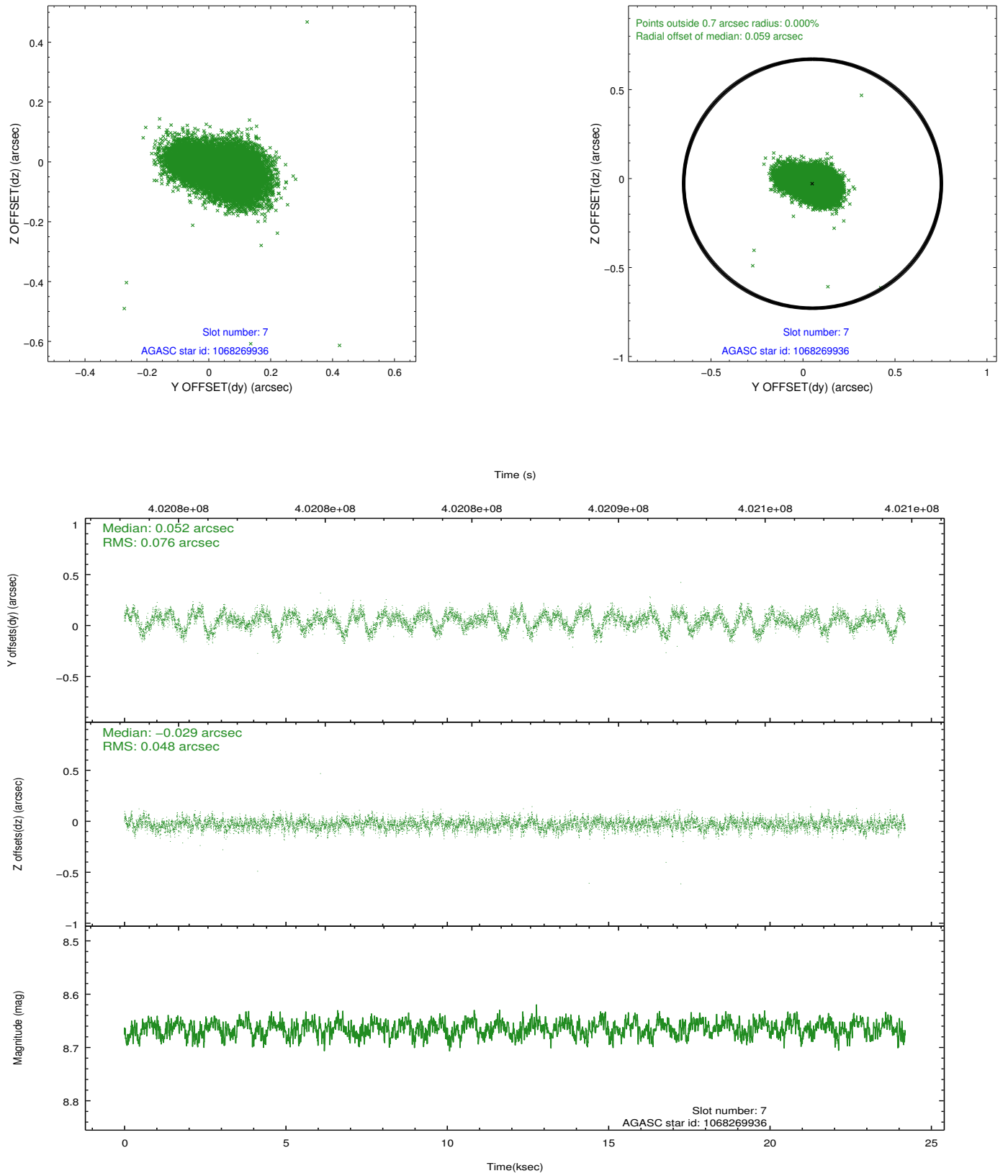
2.4.3 Slot 5



2.4.4 Slot 6

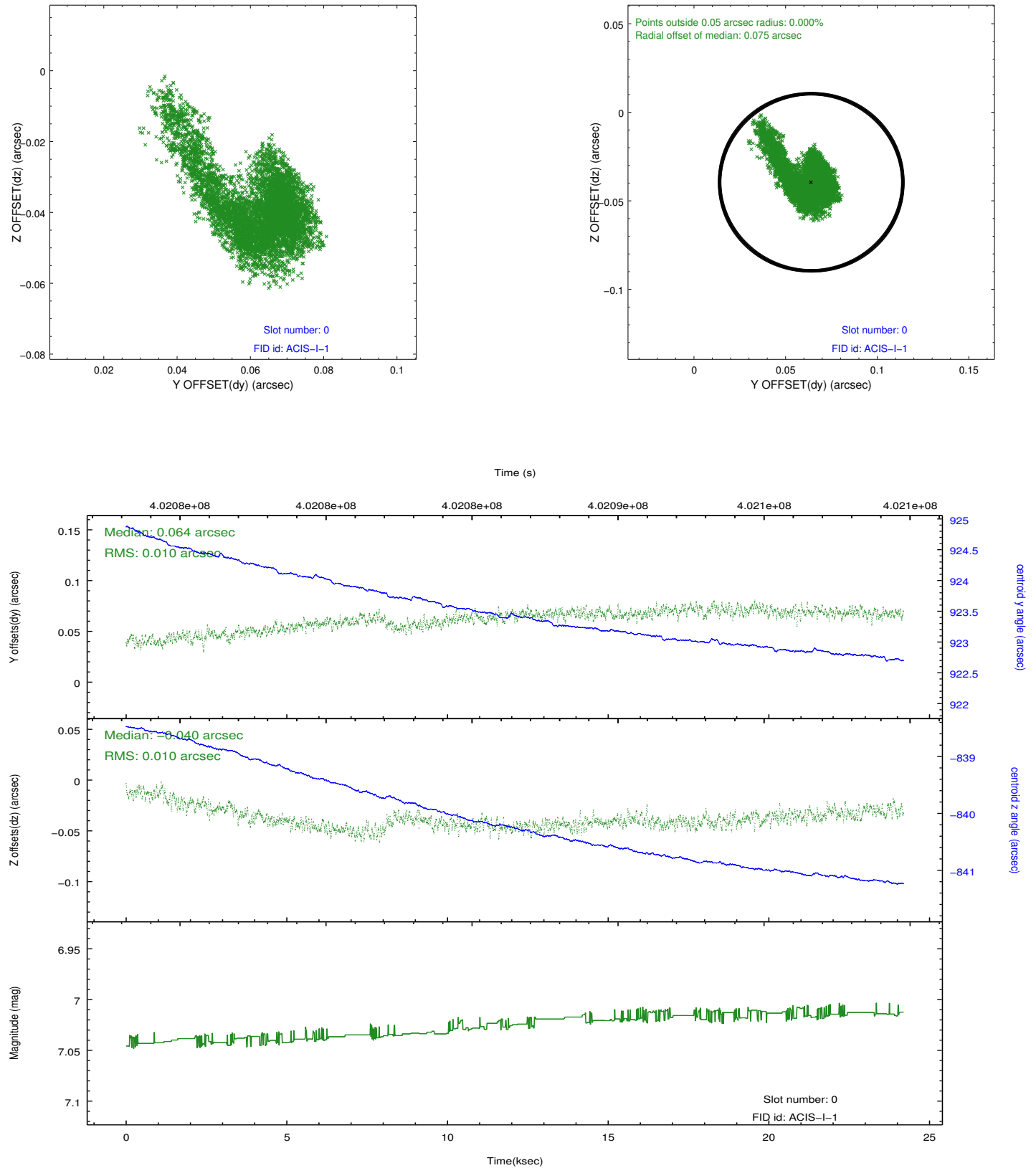


2.4.5 Slot 7

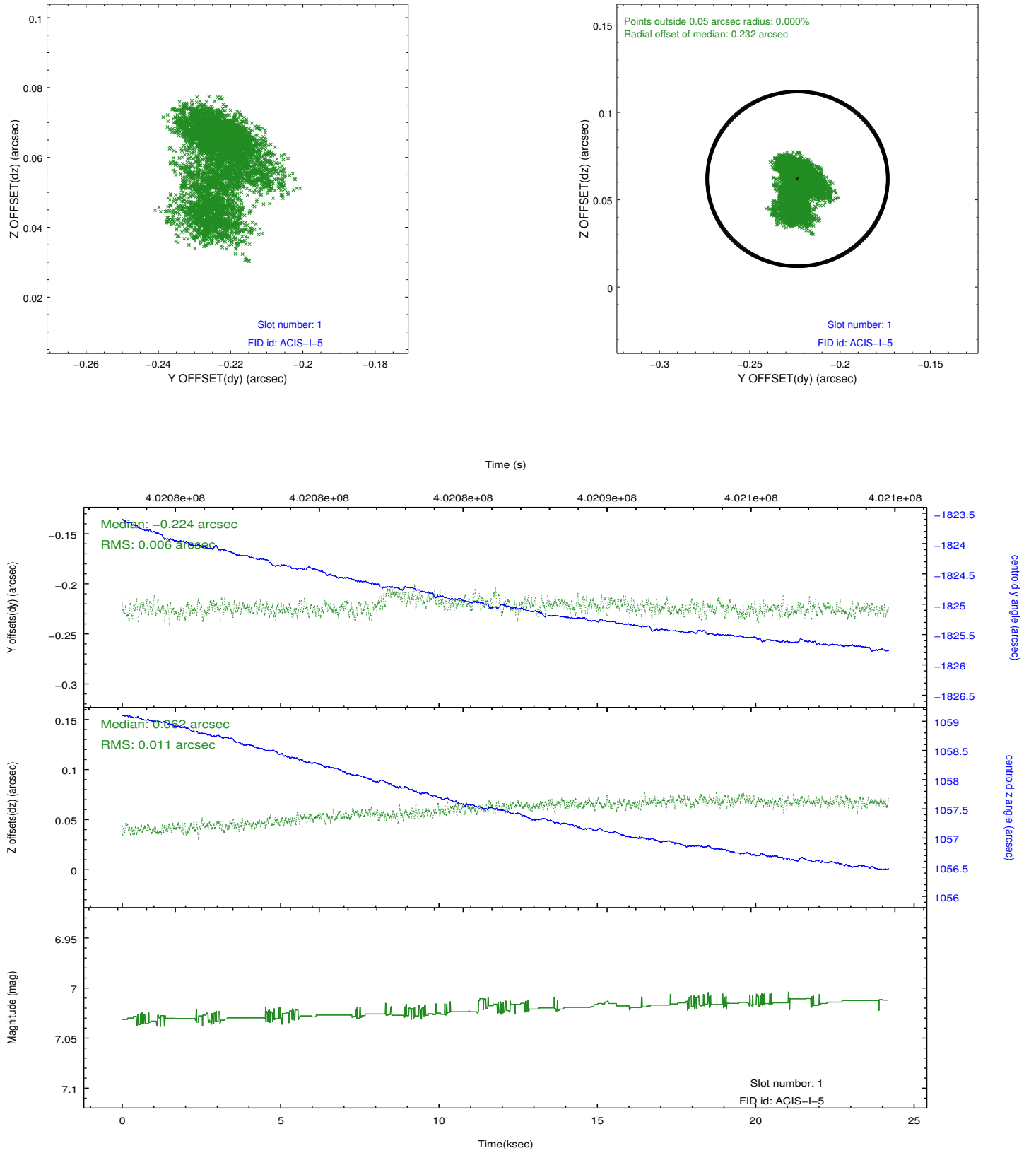


2.5 FID Slots

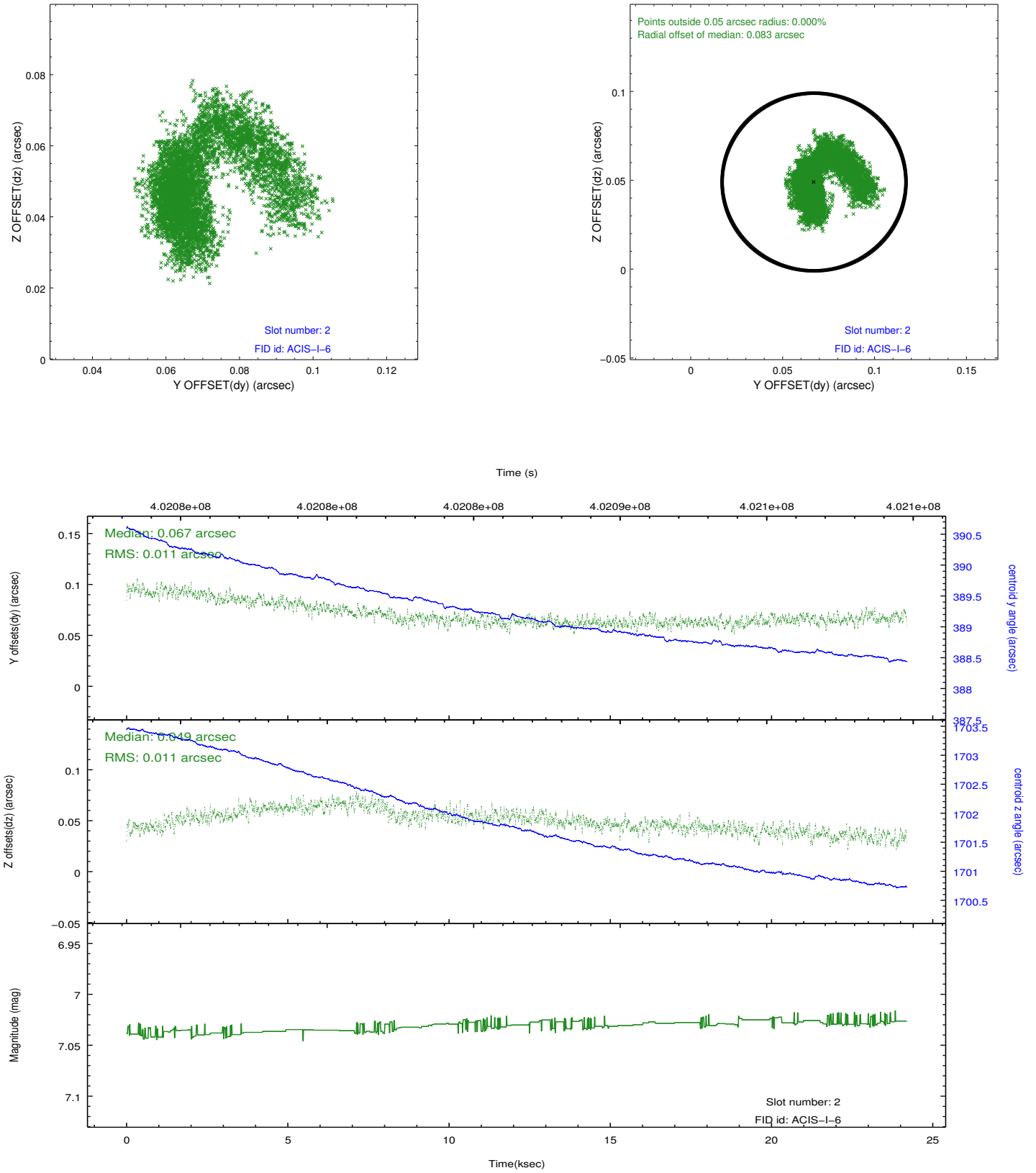
2.5.1 Slot 0



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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.353599913061

A.2 Comments