

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12974 - L2 Version 2
Chandra X-Ray Center

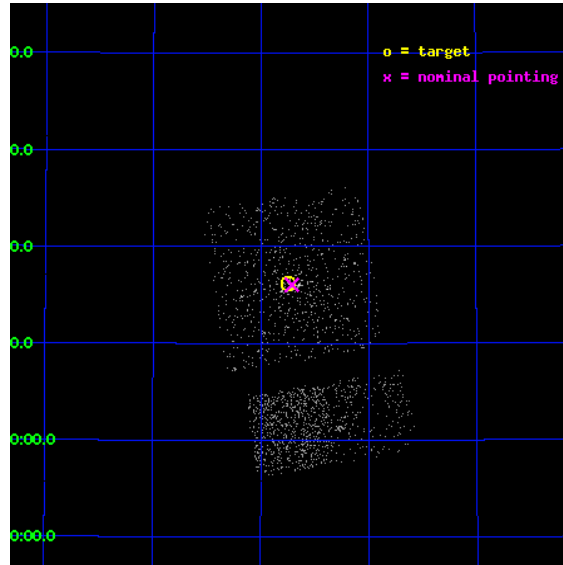
L2 Processing Date : Feb 23 2012

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1 Front

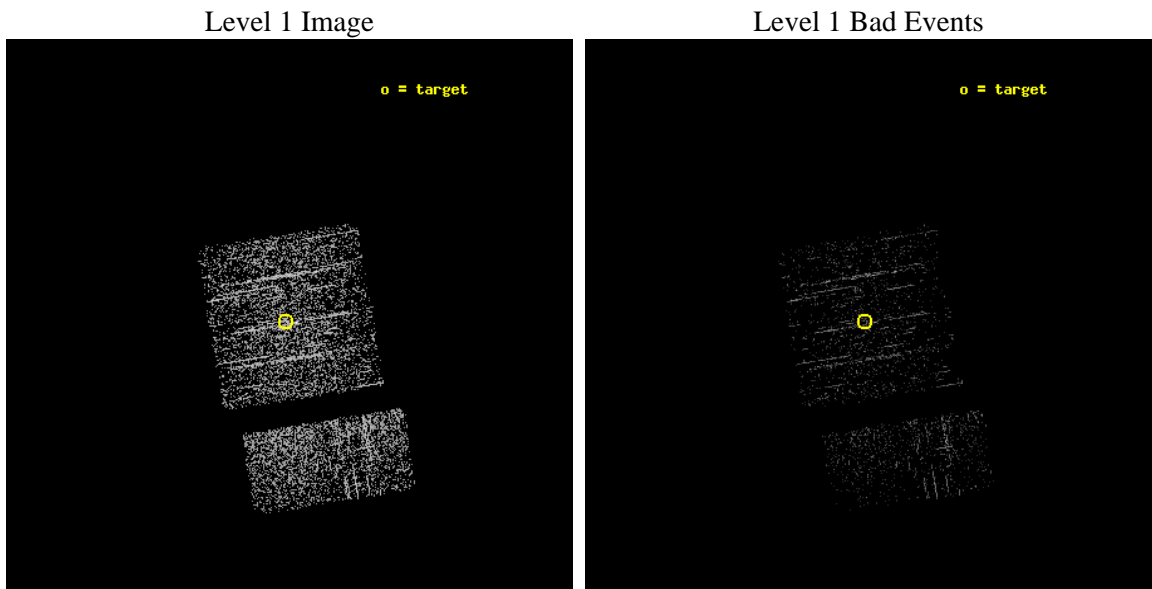
seq_num	600942	Sequence number
obs_id	12974	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar]
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.677744678924	Nominal RA [deg]
dec_nom	41.267452315636	Nominal Dec [deg]
roll_nom	170.77042399866	Nominal Roll [deg]
revision	2	Processing version of data
ontime	941.29195773602	Sum of GTIs [s]
livetime	148.1820595907	Livetime [s]
ontime0	941.29194760323	Sum of GTIs [s]
ontime1	941.29195773602	Sum of GTIs [s]
ontime2	941.29194760323	Sum of GTIs [s]
ontime3	941.29195773602	Sum of GTIs [s]
ontime6	941.29194760323	Sum of GTIs [s]
ontime7	941.29194760323	Sum of GTIs [s]
l2events	2091	Number of level 2 events



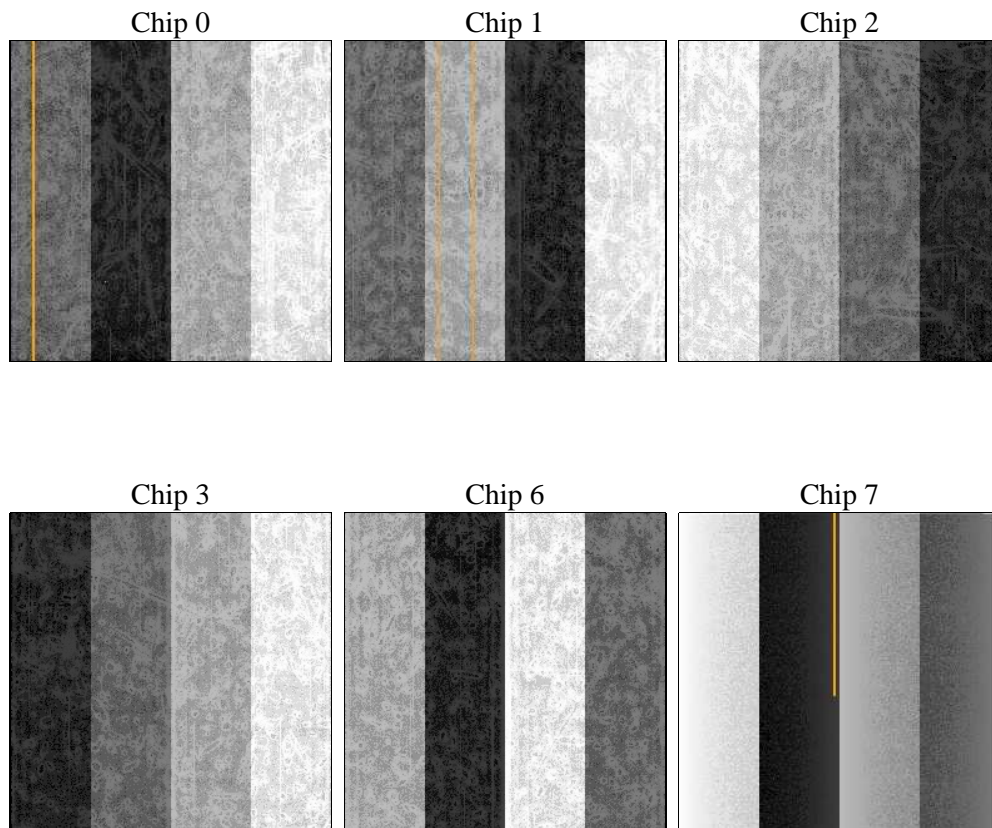
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.719000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	941.29195773602	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	941.29194760323	Sum of GTIs [s]
date	2012-02-23T14:53:20	Date and time of file creation	ontime1	941.29195773602	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	941.29194760323	Sum of GTIs [s]
			ontime3	941.29195773602	Sum of GTIs [s]
			ontime6	941.29194760323	Sum of GTIs [s]
			ontime7	941.29194760323	Sum of GTIs [s]
			l1events	16521	Number of level 1 events

2.1.4 Events

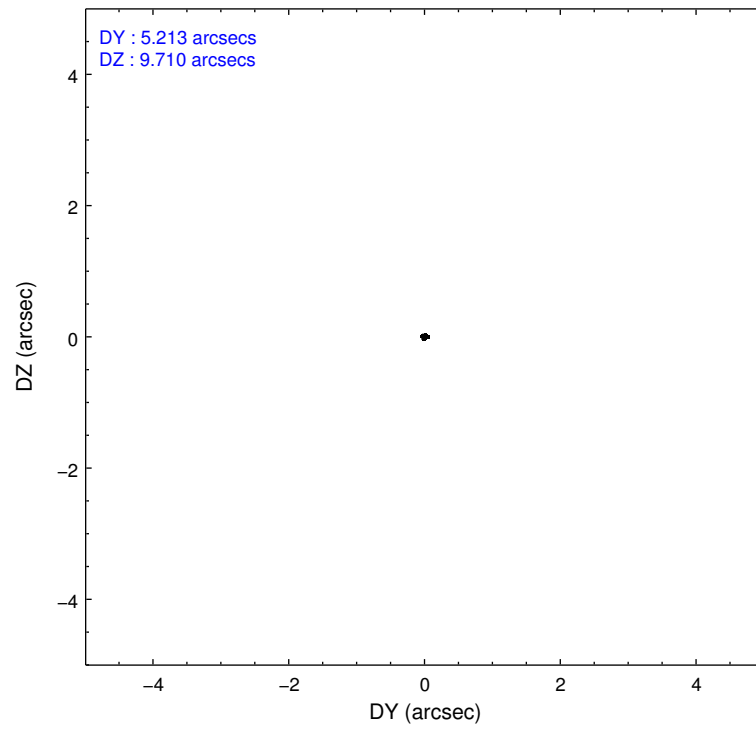
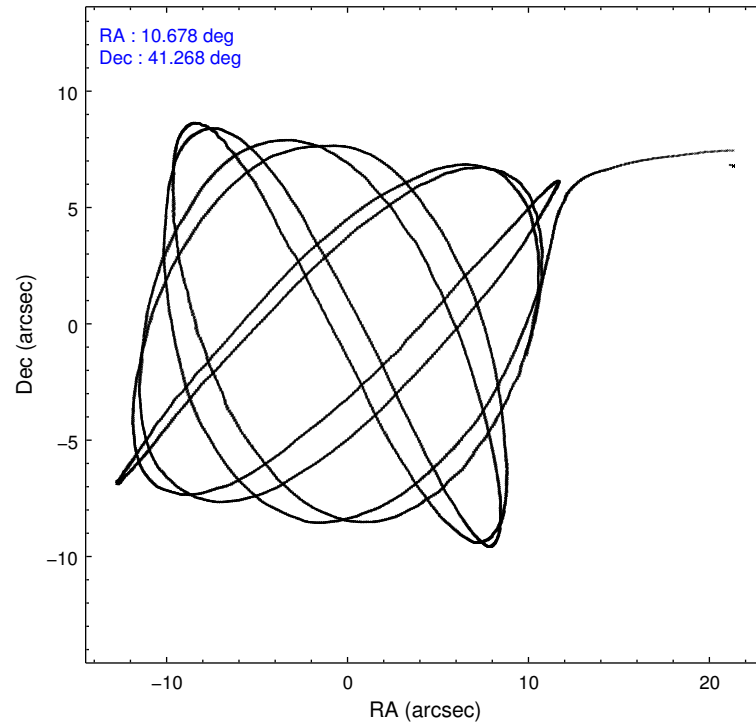
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	2307	2667	2739	3064	3045	2699
rejected events	2031	2378	2307	2717	2781	1917
rejected %	88%	89%	84%	88%	91%	71%

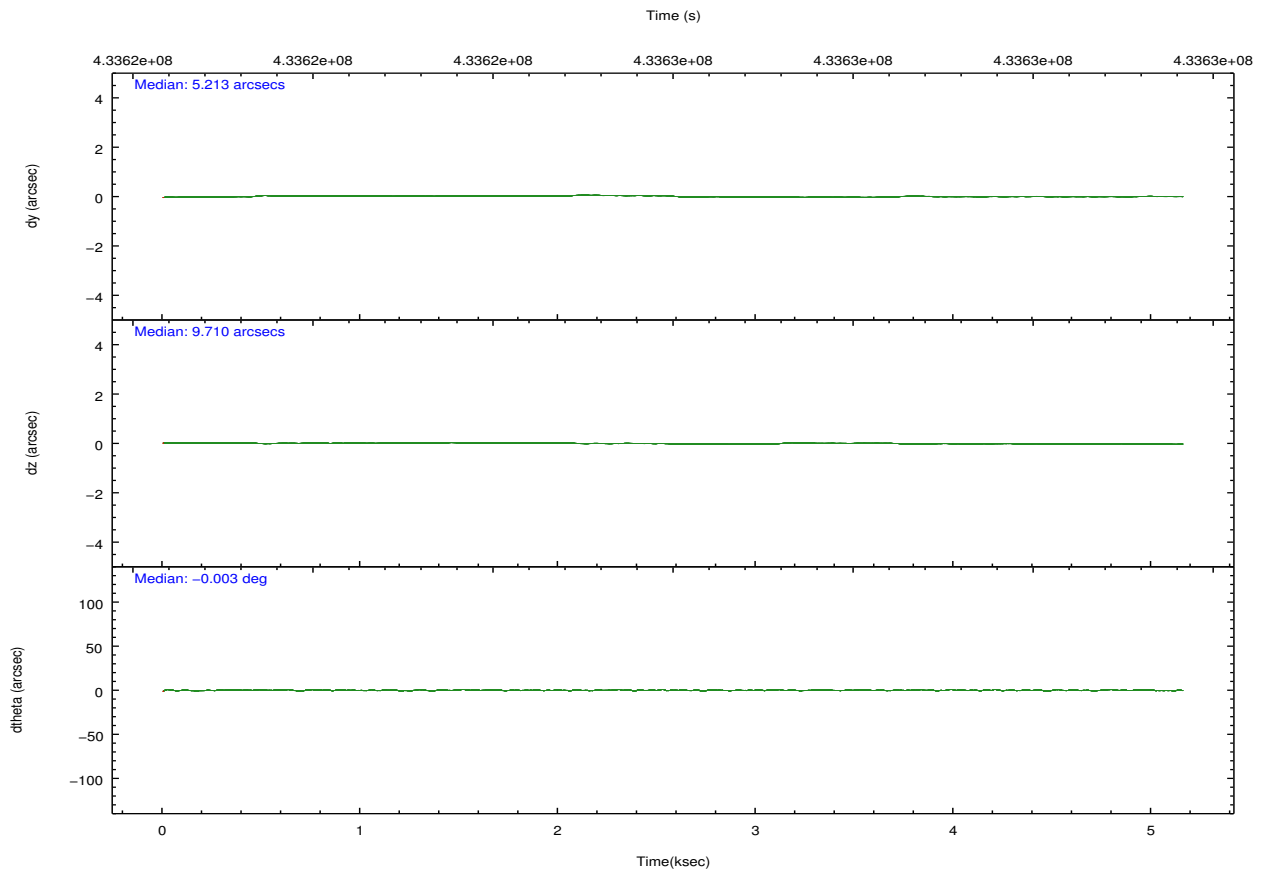
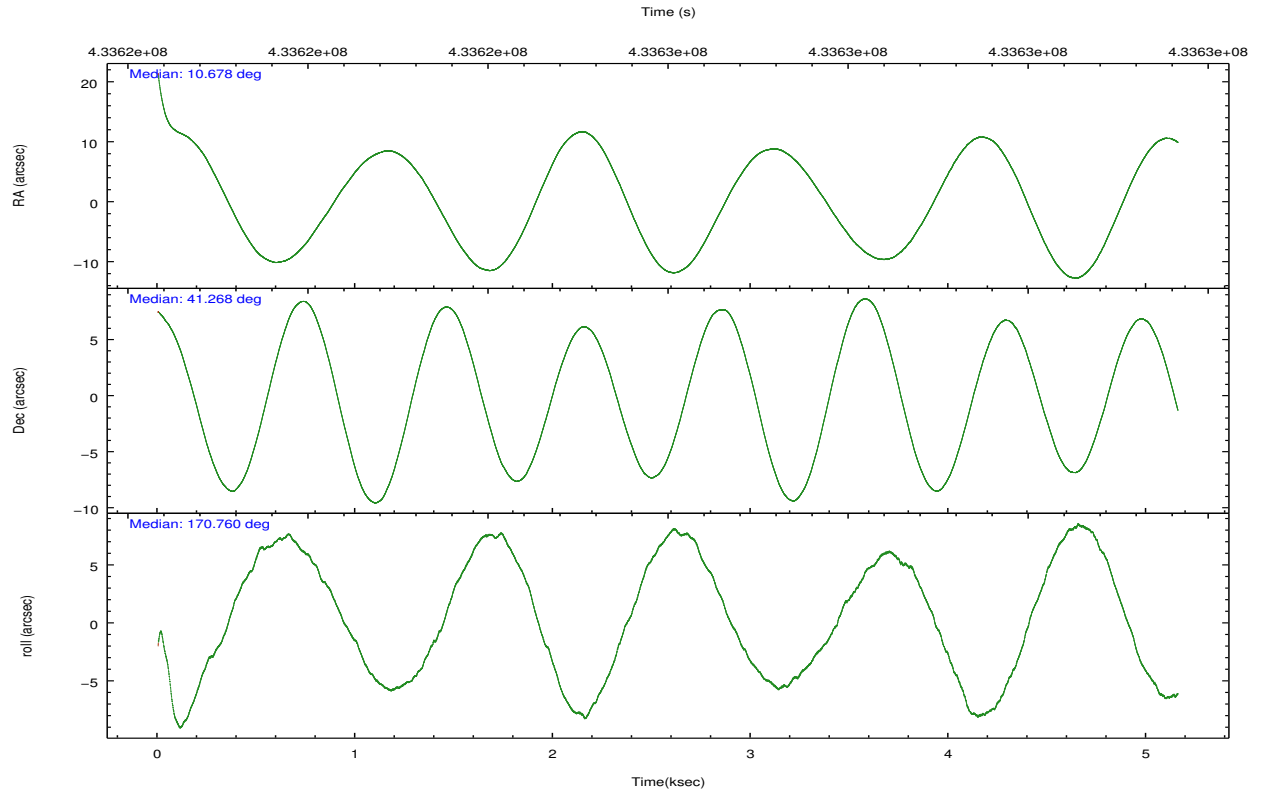
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	109	101	224	174	77	72
	4%	3%	8%	5%	2%	2%
grade 1 events	2	1	3	3	2	1
	0%	0%	0%	0%	0%	0%
grade 2 events	65	56	86	64	77	166
	2%	2%	3%	2%	2%	6%
grade 3 events	24	32	40	32	25	56
	1%	1%	1%	1%	0%	2%
grade 4 events	39	34	36	18	33	63
	1%	1%	1%	0%	1%	2%
grade 5 events	100	100	87	102	113	219
	4%	3%	3%	3%	3%	8%
grade 6 events	42	66	49	60	57	437
	1%	2%	1%	1%	1%	16%
grade 7 events	1926	2277	2214	2611	2661	1685
	83%	85%	80%	85%	87%	62%

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	10.711796	10.6777446789244	CCD I2 on	Y	Y
[deg] Pointing Dec	41.277276	41.26745231563575	CCD I3 on	Y	Y
[deg] Pointing Roll	170.539241	170.7704239986639	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	O2	Y
[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)	433623587.184000	433622065.31737	CCD S5 on	N	N
Observation start date	2011-09-28T18:58:41	2011-09-28T18:34:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	433628588.184000	433628824.68022	On-chip summing requested	N	N
Observation end date	2011-09-28T20:22:02	2011-09-28T20:27:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	Y	Y
			[s] Primary exposure time	0.600000	0.6
			[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



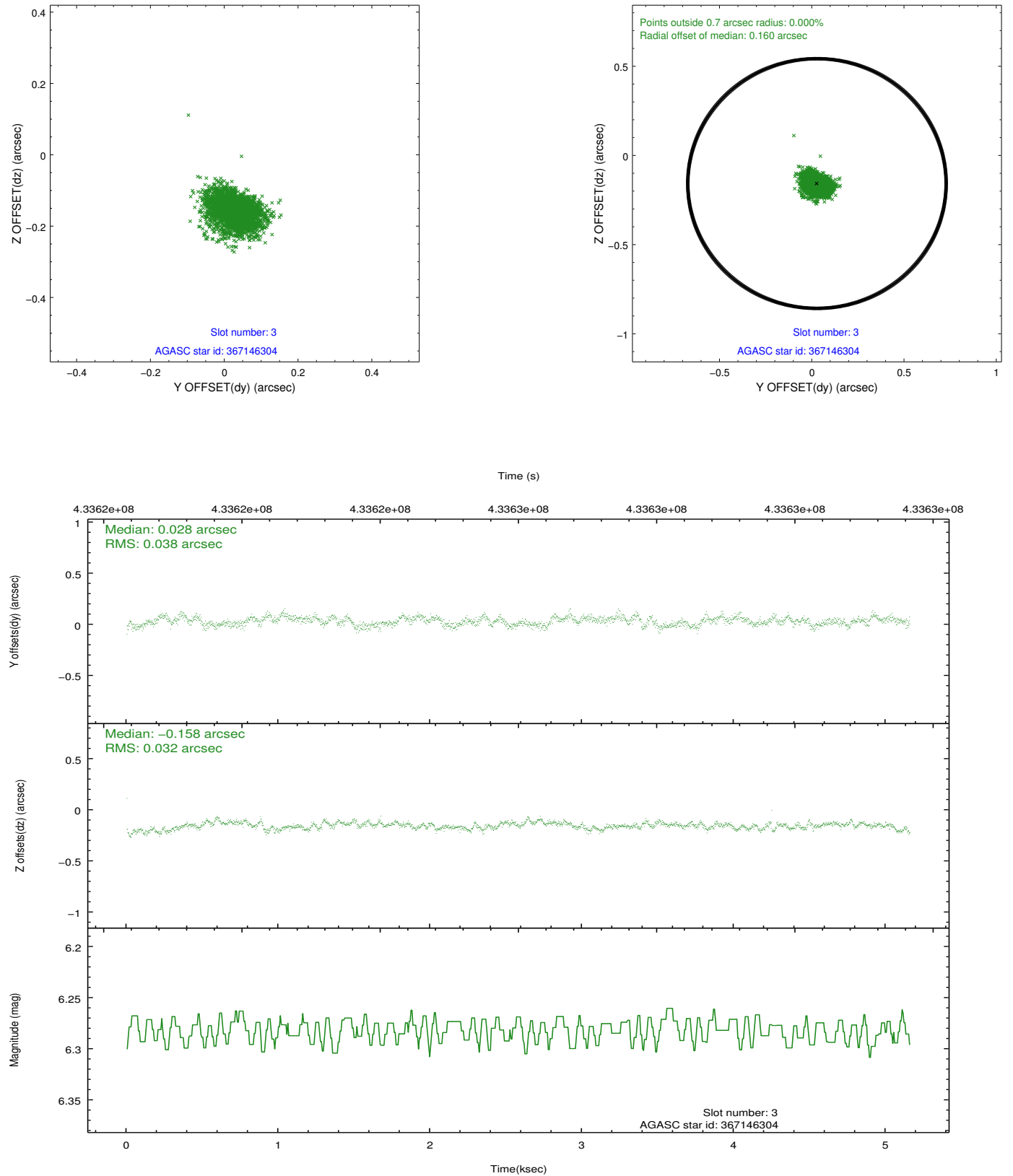


Slot Statistics

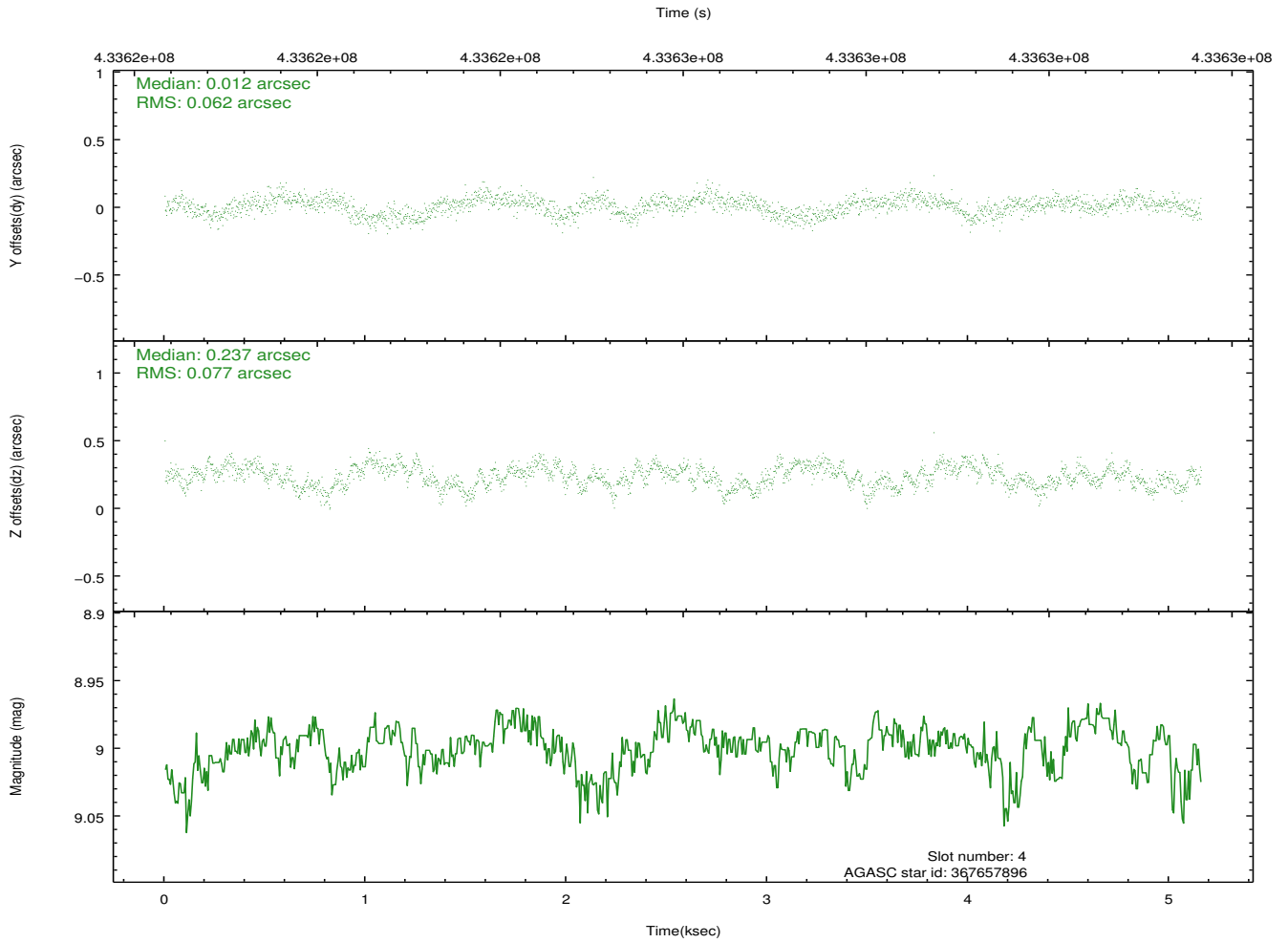
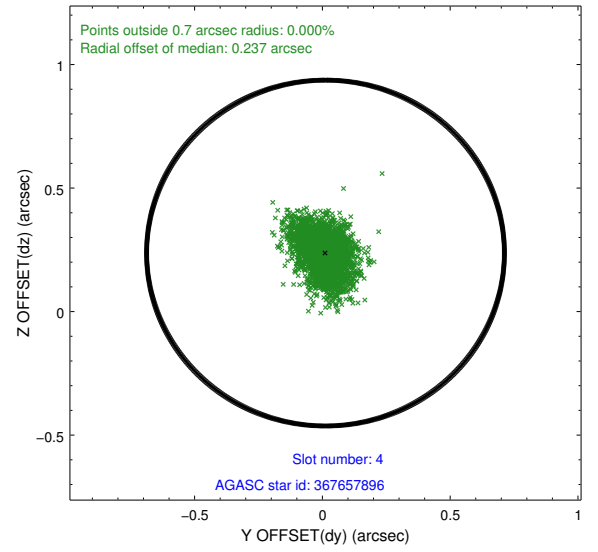
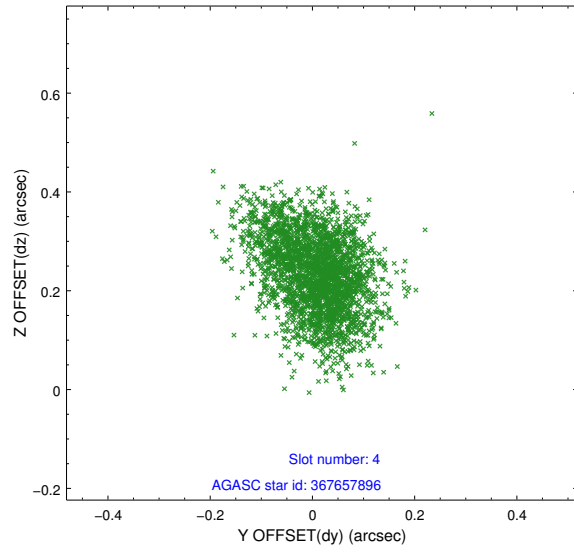
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.19	1259	0.061	-0.022	0.006	0.010	0.000000	0.000000	934.60	-833.17
1	FID	ACIS-I-5	7.18	1259	-0.194	0.071	0.006	0.010	0.000000	0.000000	-1813.16	1063.76
2	FID	ACIS-I-6	7.19	1259	0.042	0.021	0.006	0.011	0.000000	0.000000	398.78	1709.60
3	GUIDE	367146304	6.28	2517	0.028	-0.158	0.052	0.088	11.154952	40.679362	-1546.84	1921.47
4	GUIDE	367657896	9.00	2514	0.012	0.237	0.104	0.171	11.197765	41.313576	-1274.22	-347.36
5	GUIDE	367663272	9.27	2516	-0.117	0.065	0.121	0.191	10.656279	41.699429	397.93	-1473.59
6	GUIDE	367674552	8.86	2515	0.170	0.118	0.078	0.125	11.016238	41.570845	-634.06	-1178.77
7	GUIDE	367148872	7.19	2516	-0.084	-0.257	0.068	0.109	10.505940	40.688258	205.58	2183.81

2.4 Star Slots

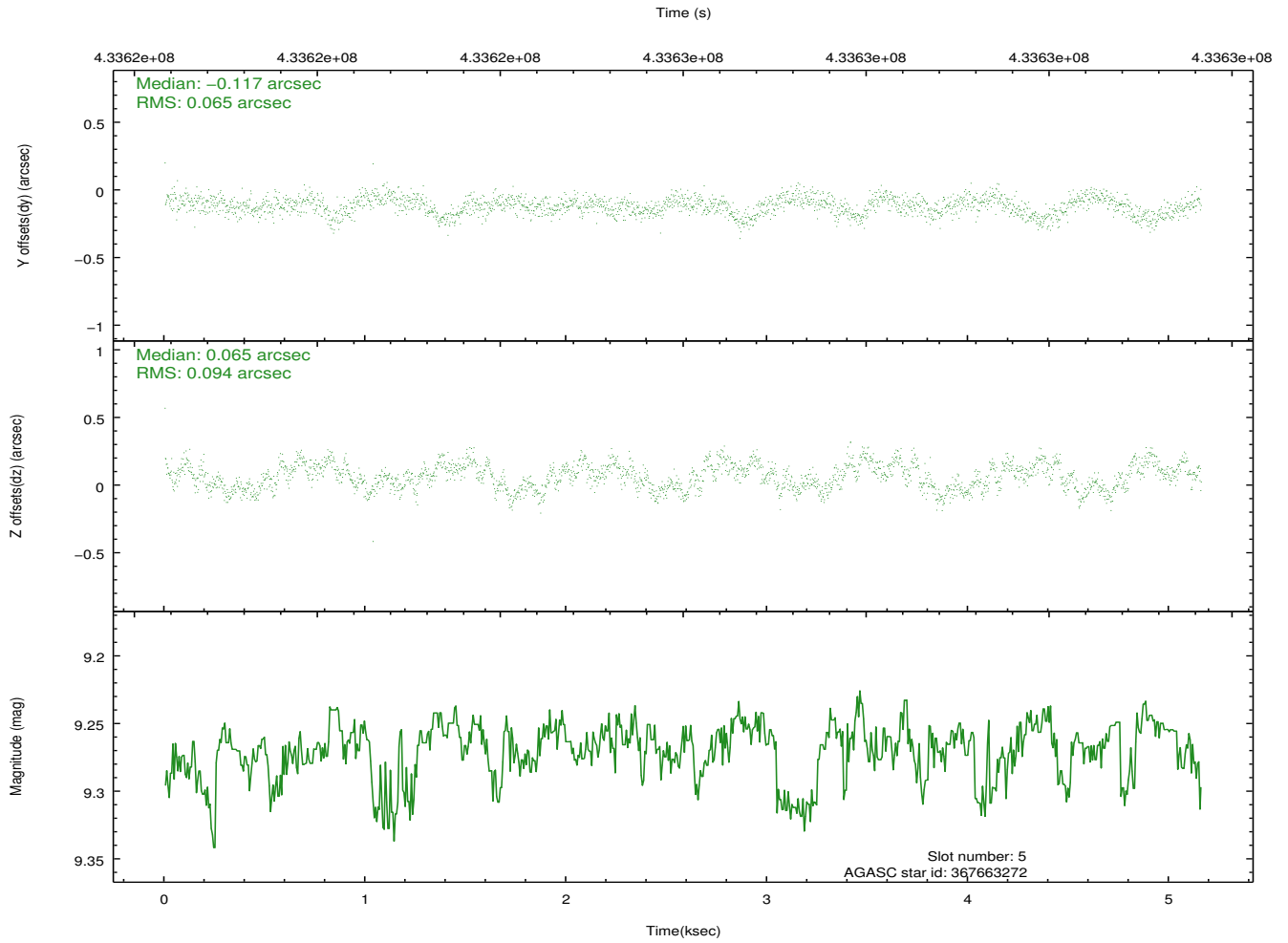
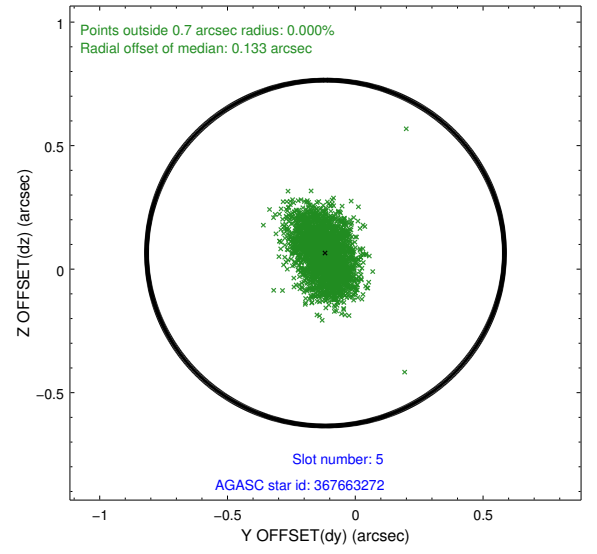
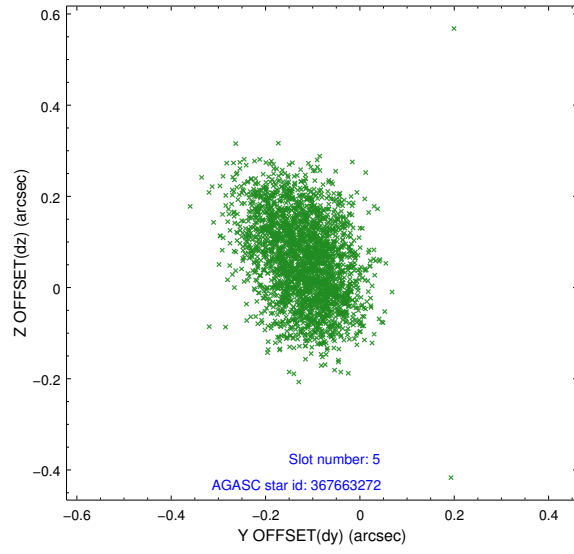
2.4.1 Slot 3



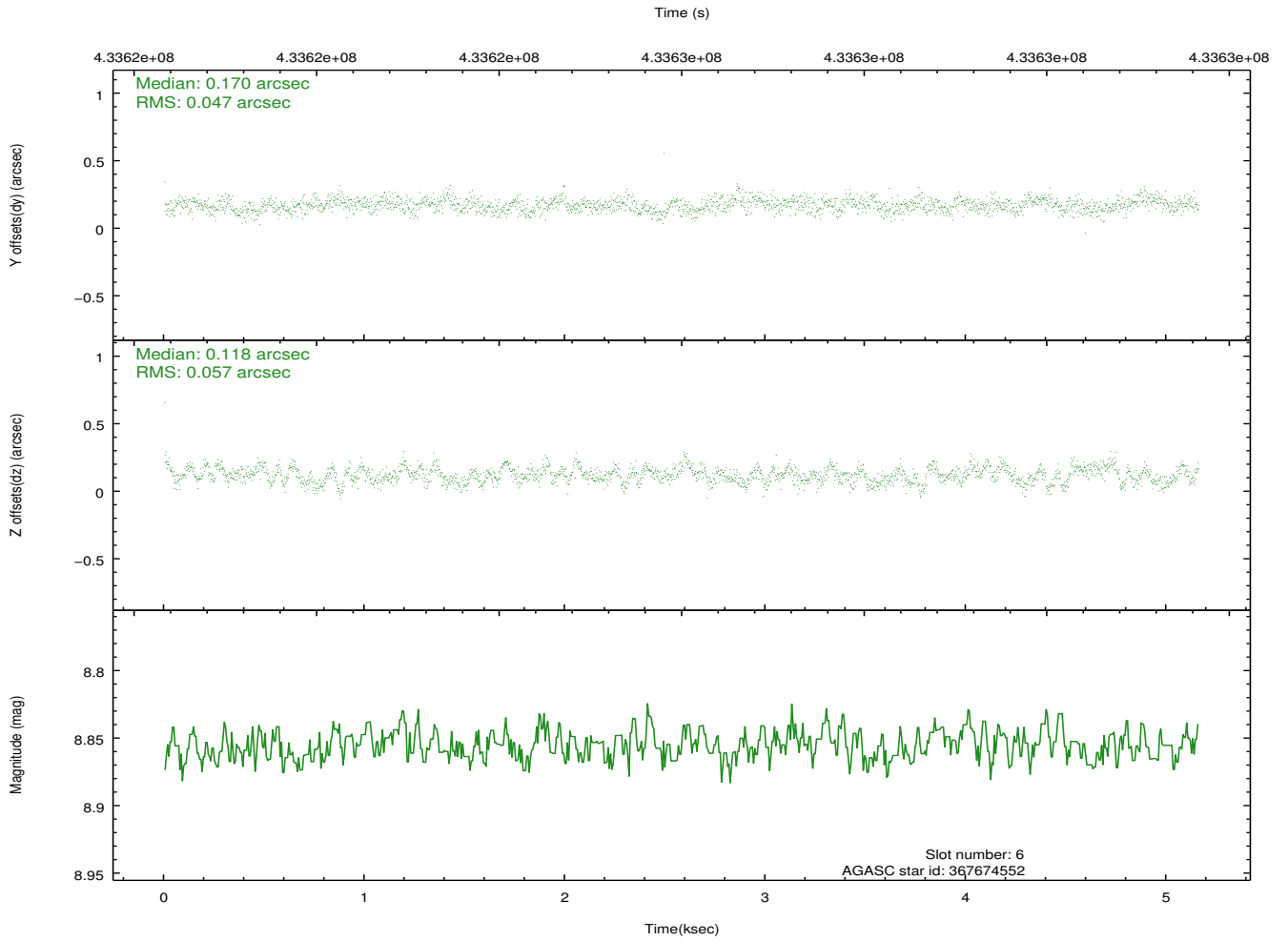
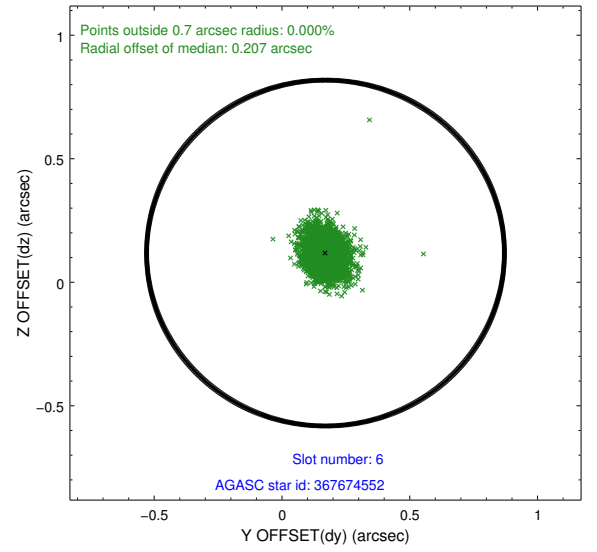
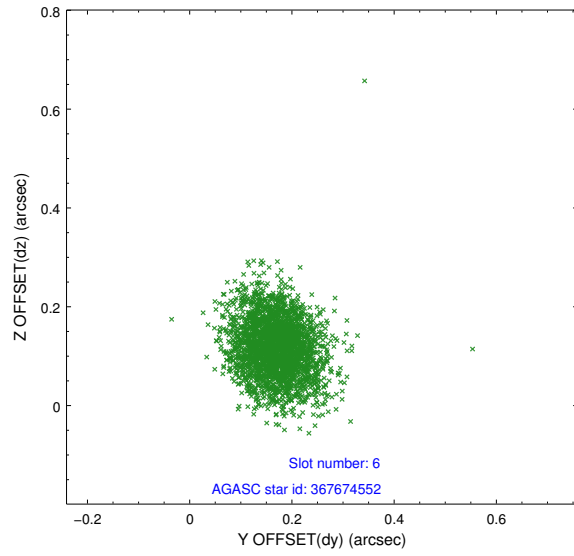
2.4.2 Slot 4



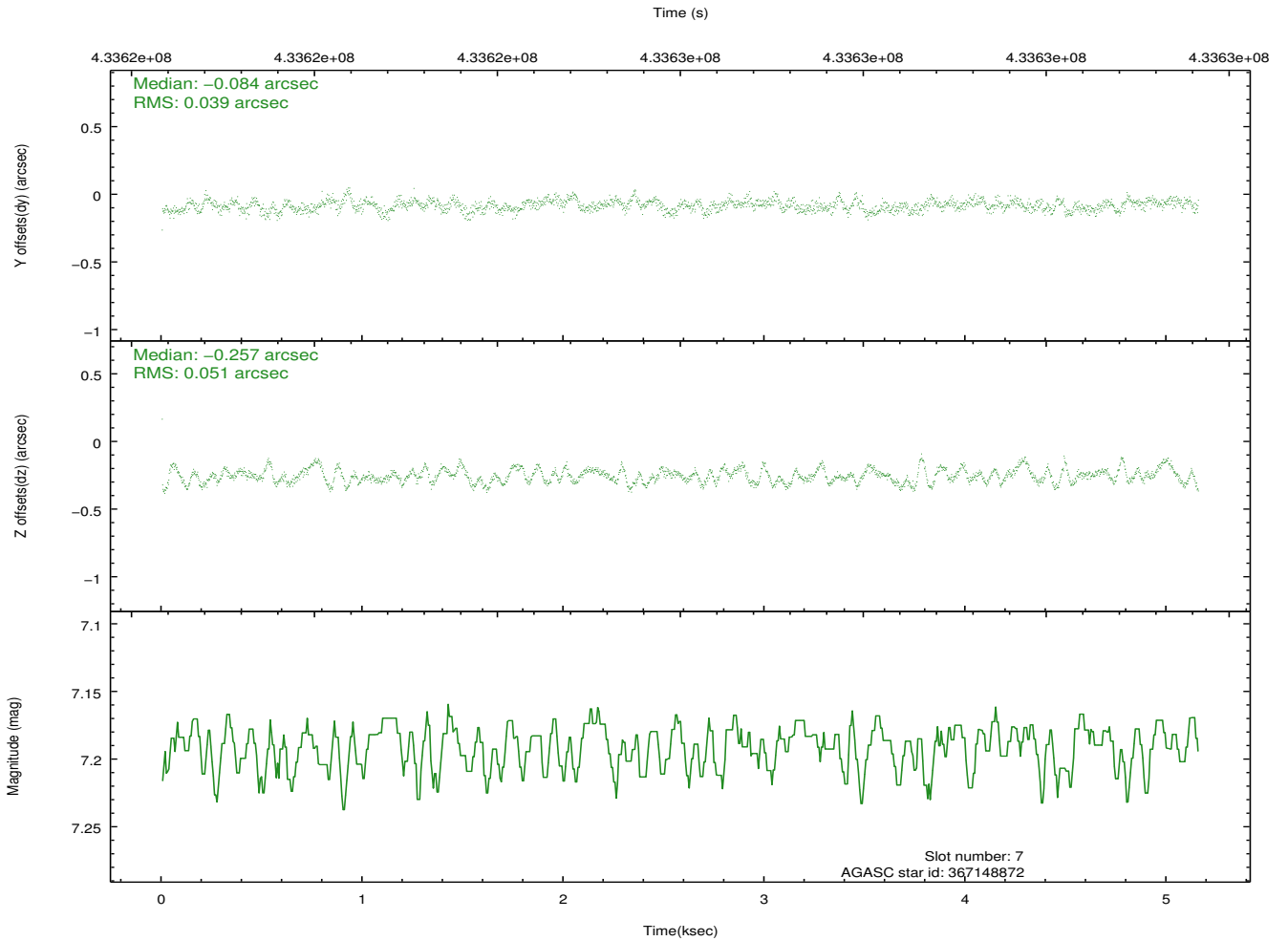
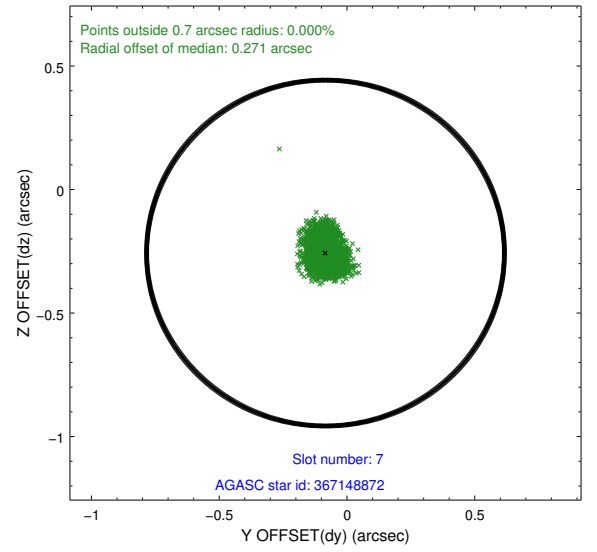
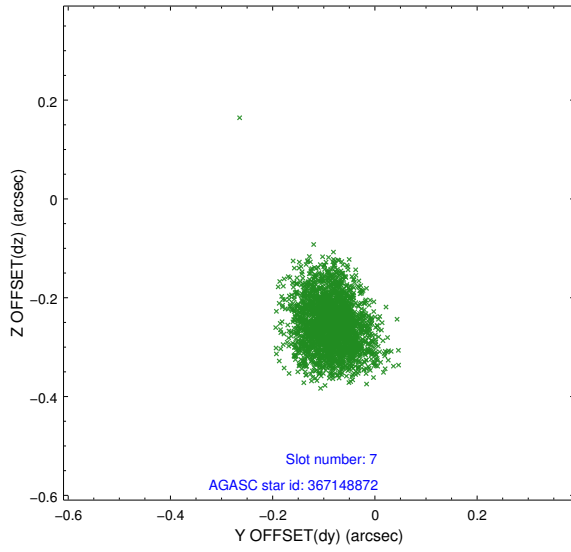
2.4.3 Slot 5



2.4.4 Slot 6

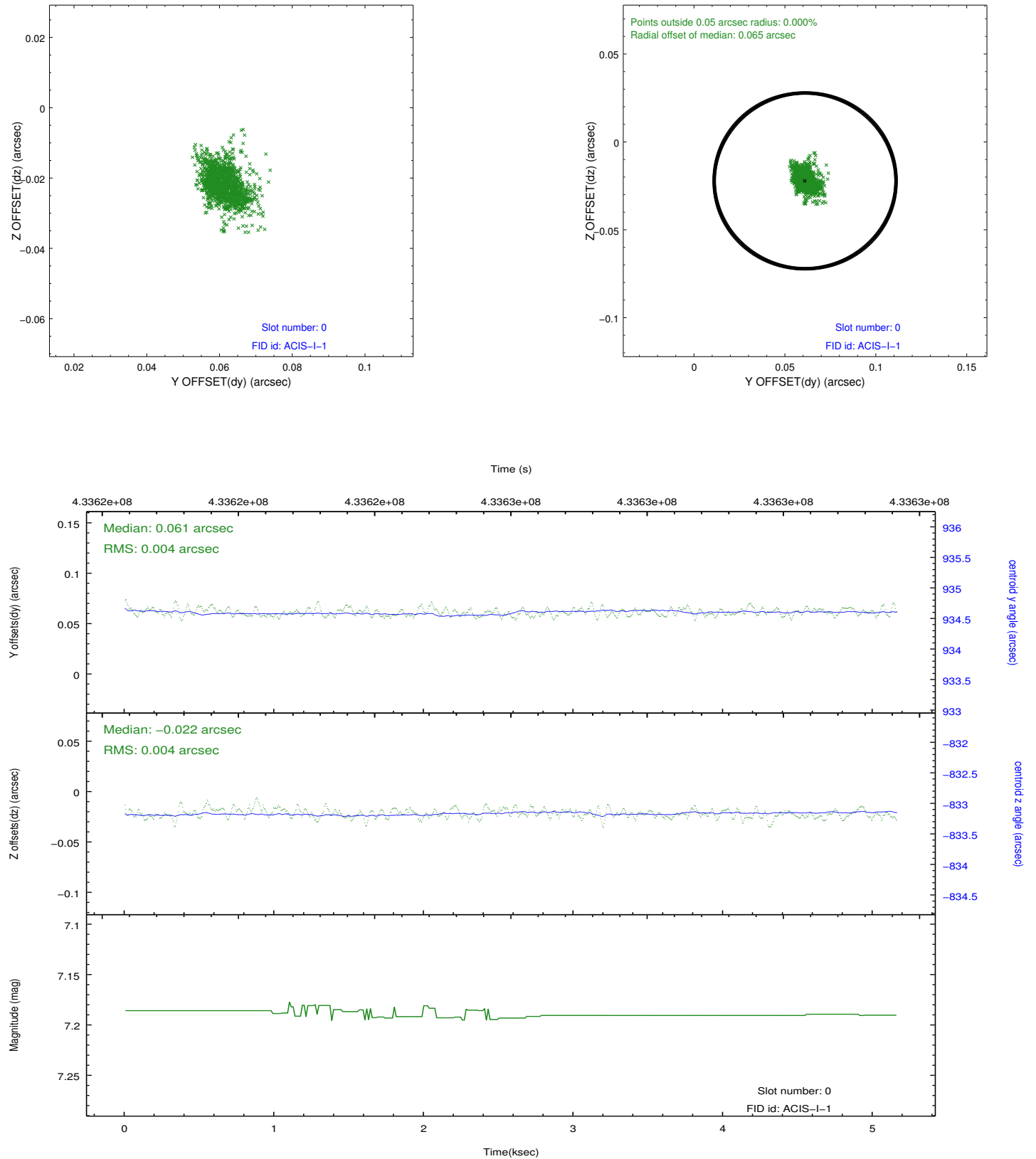


2.4.5 Slot 7

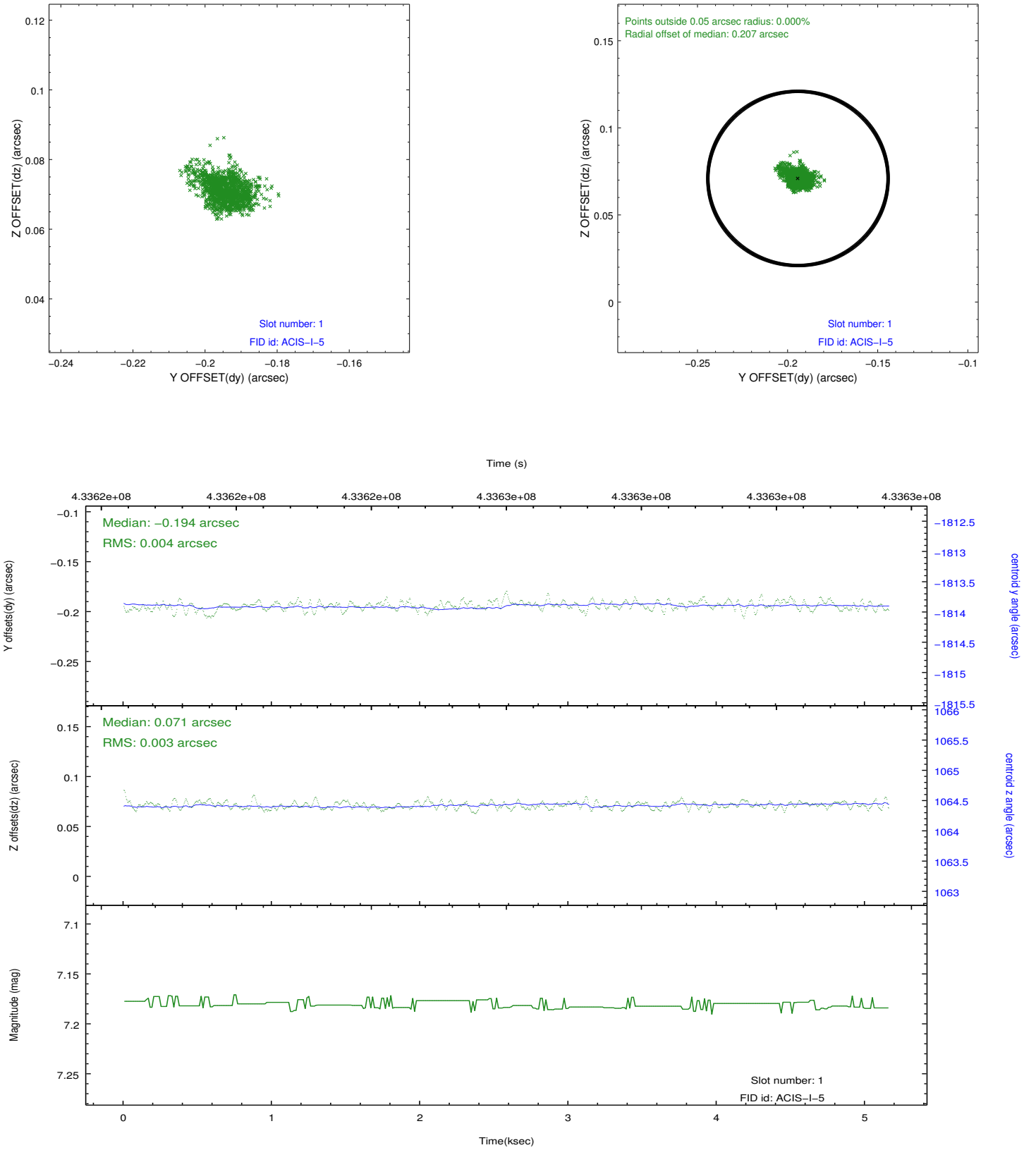


2.5 FID Slots

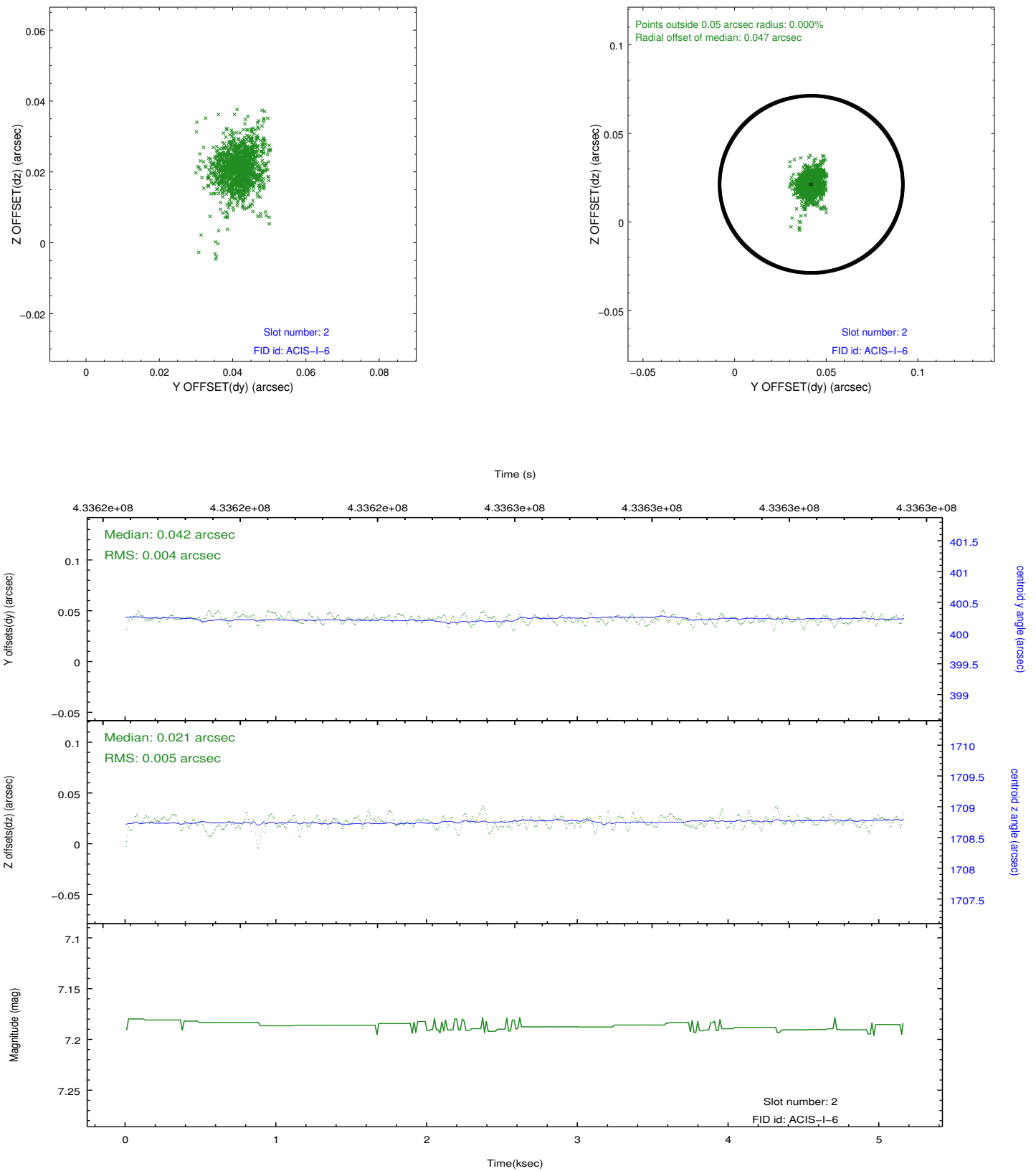
2.5.1 Slot 0



2.5.2 Slot 1



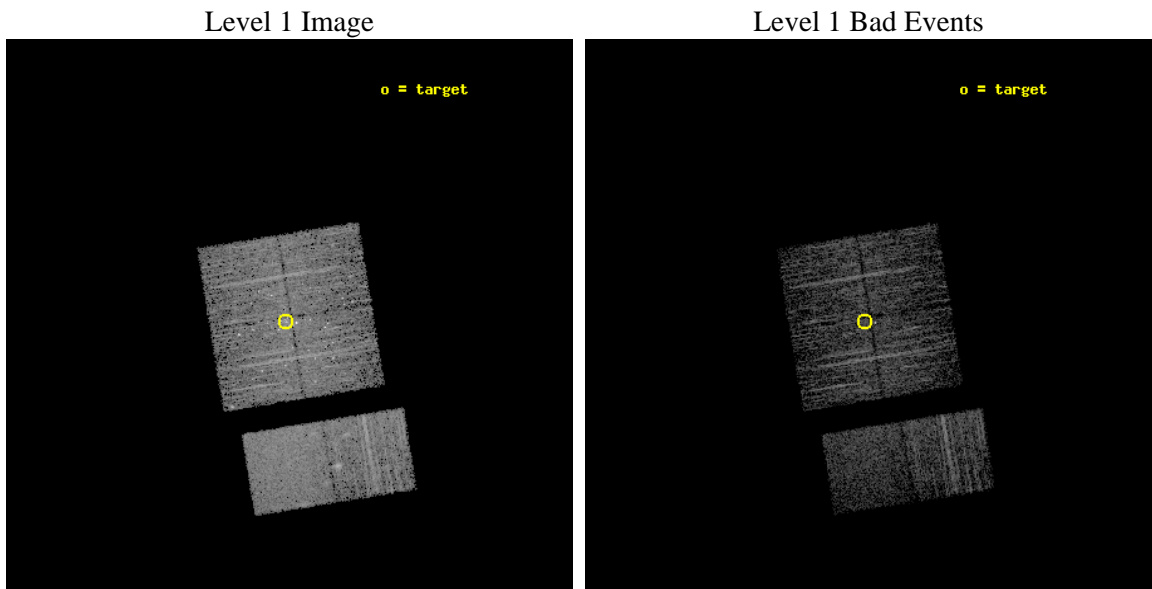
2.5.3 Slot 2



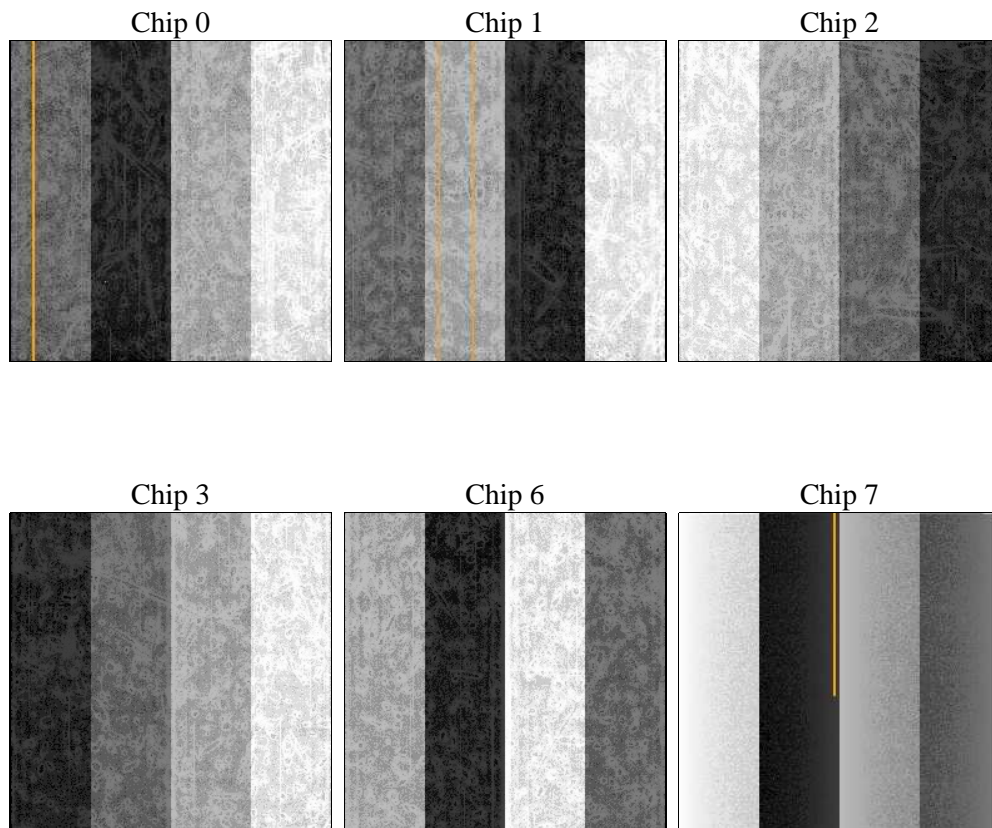
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.719000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4025.7744235396	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	4025.7742817402	Sum of GTIs [s]
date	2012-02-23T14:53:21	Date and time of file creation	ontime1	4025.7742918134	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4025.7743123174	Sum of GTIs [s]
			ontime3	4025.7744235396	Sum of GTIs [s]
			ontime6	4025.7744639516	Sum of GTIs [s]
			ontime7	4025.7743629217	Sum of GTIs [s]
			l1events	159445	Number of level 1 events

3.1.4 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	23329	24558	27114	27490	26830	30124	grade 0 events	2017	2178	3782	3913	1844	1250
rejected events	19346	20228	20799	21319	22941	16486		8%	8%	13%	14%	6%	4%
rejected %	82%	82%	76%	77%	85%	54%	grade 1 events	20	23	149	59	15	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	799	823	1041	934	782	2878
								3%	3%	3%	3%	2%	9%
							grade 3 events	323	350	433	358	300	1141
								1%	1%	1%	1%	1%	3%
							grade 4 events	316	346	420	377	302	1170
								1%	1%	1%	1%	1%	3%
							grade 5 events	988	1045	1067	1120	1145	2971
								4%	4%	3%	4%	4%	9%
							grade 6 events	538	639	654	601	665	7211
								2%	2%	2%	2%	2%	23%
							grade 7 events	18328	19154	19568	20128	21777	13472
								78%	77%	72%	73%	81%	44%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96706638115642

A.2 Comments

Joint Proposal: HST. Monitor constraint met, follows obs12973 by 34 days.