

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7842 - L2 Version 3
Chandra X-Ray Center

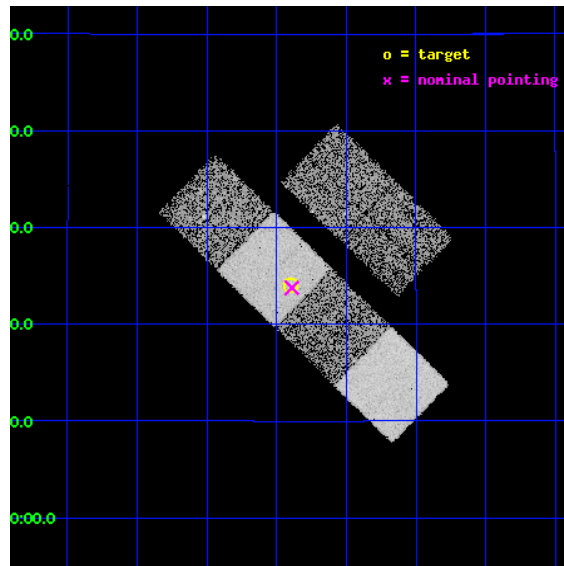
L2 Processing Date : Apr 23 2012

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1 Front

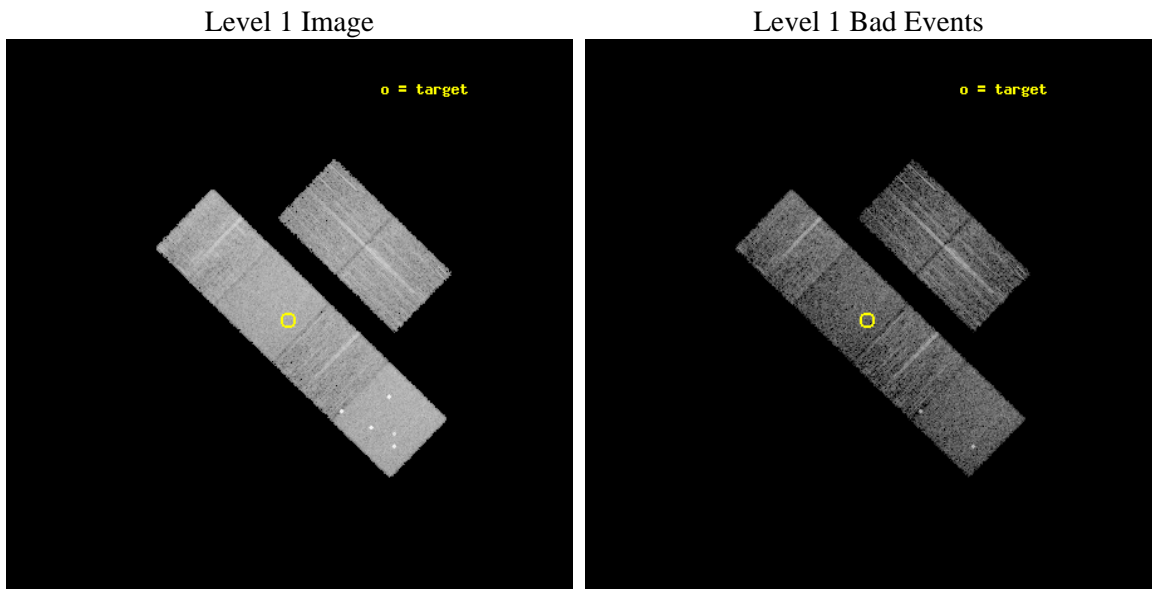
seq_num	701506	Sequence number
obs_id	7842	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 4037	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.34875	Observer's specified target RA [deg]
dec_targ	13.401028	Observer's specified target Dec [deg]
ra_nom	180.34756597129	Nominal RA [deg]
dec_nom	13.396222909236	Nominal Dec [deg]
roll_nom	224.08741093136	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4758.398643434	Sum of GTIs [s]
livetime	4698.1449346472	Livetime [s]
ontime2	4758.3999823332	Sum of GTIs [s]
ontime3	4758.2755234241	Sum of GTIs [s]
ontime5	4758.3576034307	Sum of GTIs [s]
ontime6	4758.3165634274	Sum of GTIs [s]
ontime7	4758.398643434	Sum of GTIs [s]
ontime8	4754.9934334755	Sum of GTIs [s]
l2events	73565	Number of level 2 events



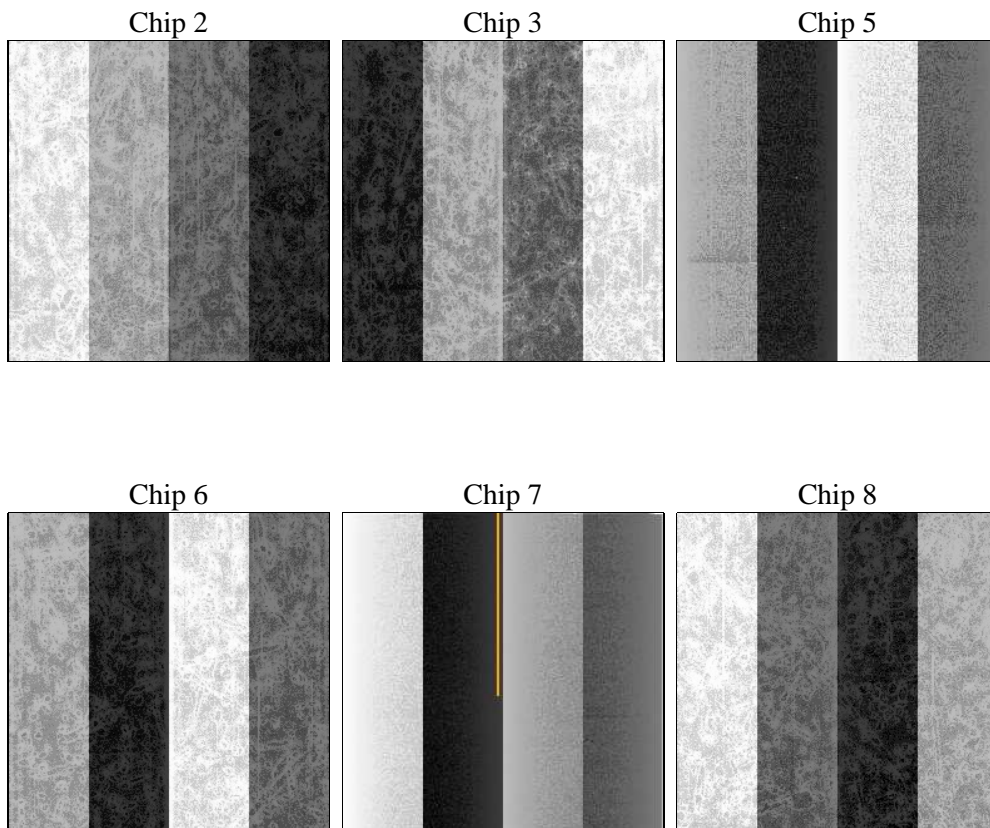
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4758.398643434	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	4758.3999823332	Sum of GTIs [s]
date	2012-04-23T08:55:20	Date and time of file creation	ontime3	4758.2755234241	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4758.3576034307	Sum of GTIs [s]
			ontime6	4758.3165634274	Sum of GTIs [s]
			ontime7	4758.398643434	Sum of GTIs [s]
			ontime8	4754.9934334755	Sum of GTIs [s]
			l1events	332497	Number of level 1 events

2.1.4 Events

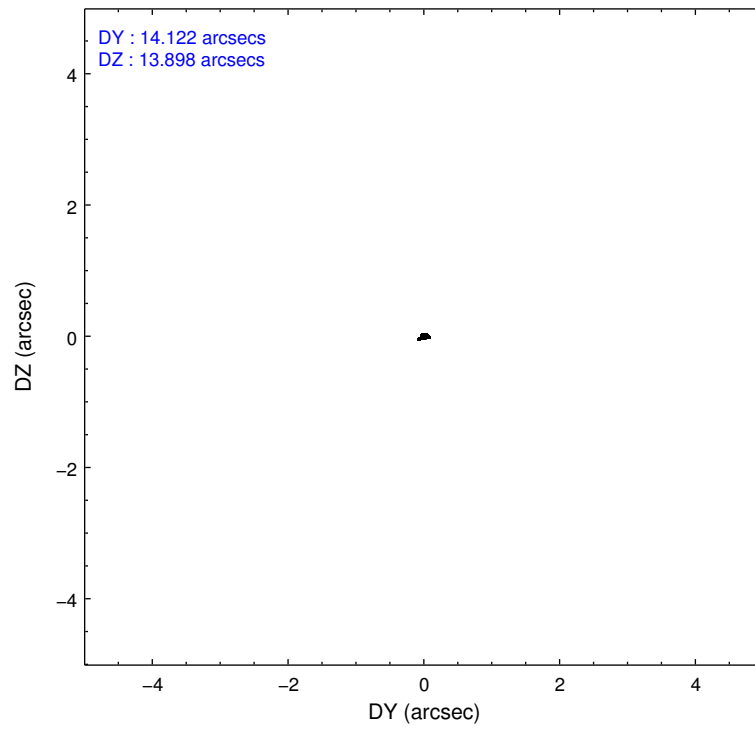
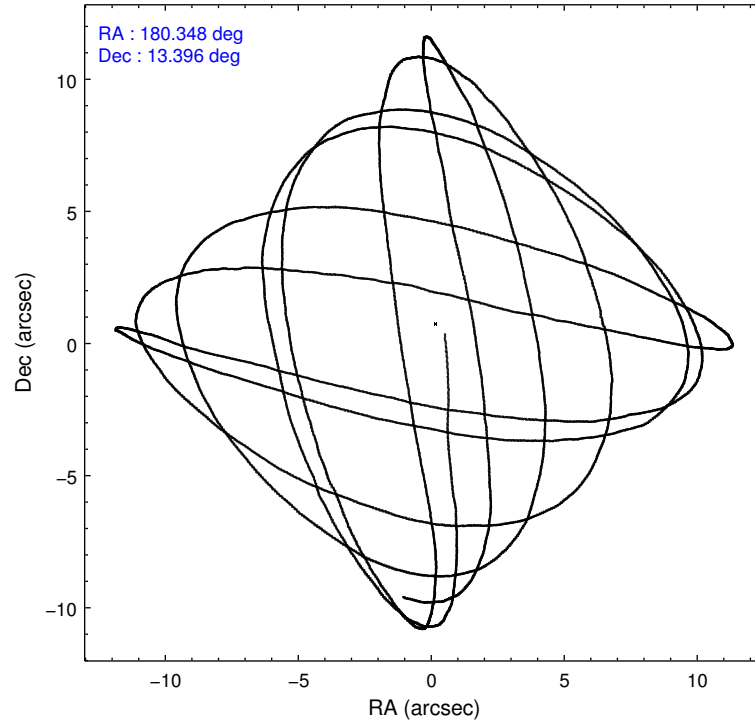
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	48066	42757	73477	44914	61718	61565
rejected events	43085	37526	38035	39609	36119	48346
rejected %	89%	87%	51%	88%	58%	78%

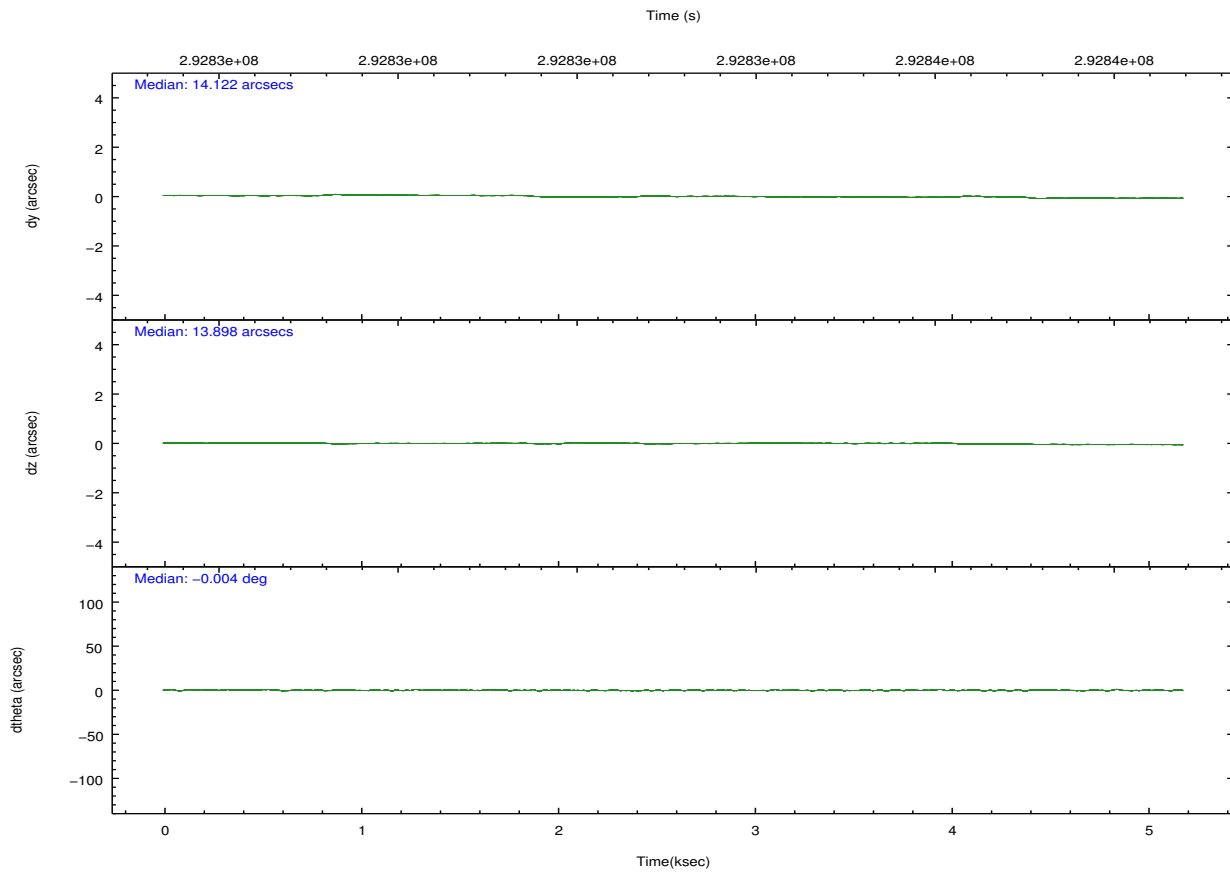
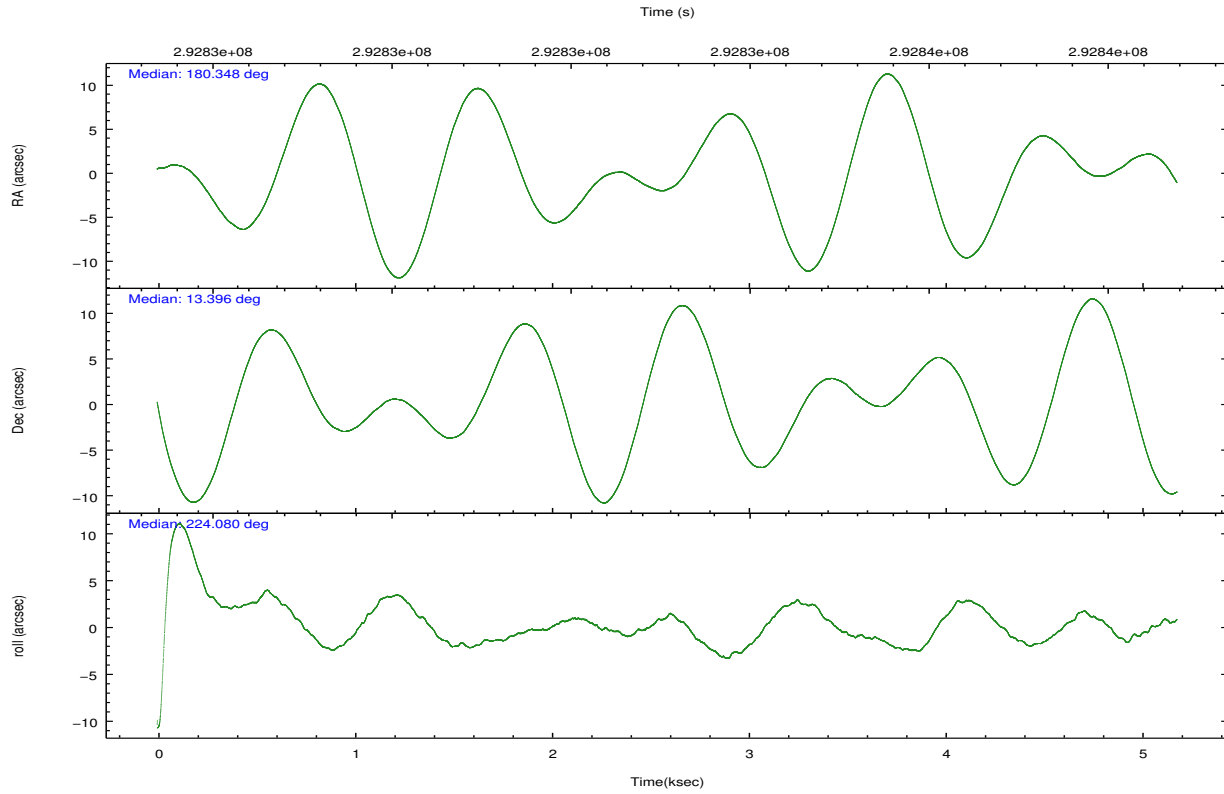
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2067	2282	5689	2058	2281	4068
	4%	5%	7%	4%	3%	6%
grade 1 events	27	32	175	26	62	54
	0%	0%	0%	0%	0%	0%
grade 2 events	1130	1007	9978	1202	5173	2878
	2%	2%	13%	2%	8%	4%
grade 3 events	459	521	1369	514	2219	1450
	0%	1%	1%	1%	3%	2%
grade 4 events	468	507	1181	473	2160	1292
	0%	1%	1%	1%	3%	2%
grade 5 events	1792	1953	5040	2091	5764	2666
	3%	4%	6%	4%	9%	4%
grade 6 events	862	916	17271	1067	13800	3535
	1%	2%	23%	2%	22%	5%
grade 7 events	41261	35539	32774	37483	30259	45622
	85%	83%	44%	83%	49%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	180.354860	180.3475659712905	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.422720	13.39622290923563	Alternating exposures requested	N	N
[deg] Pointing Roll	223.929092	224.0874109313648	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	292831116.184000	292830486.58727			
Observation start date	2007-04-13T05:57:31	2007-04-13T05:48:06			
[s] Observation end time (MET)	292836116.184000	292836739.60007			
Observation end date	2007-04-13T07:20:51	2007-04-13T07:32:19			
Read mode	TIMED	TIMED			

2.3 Aspect



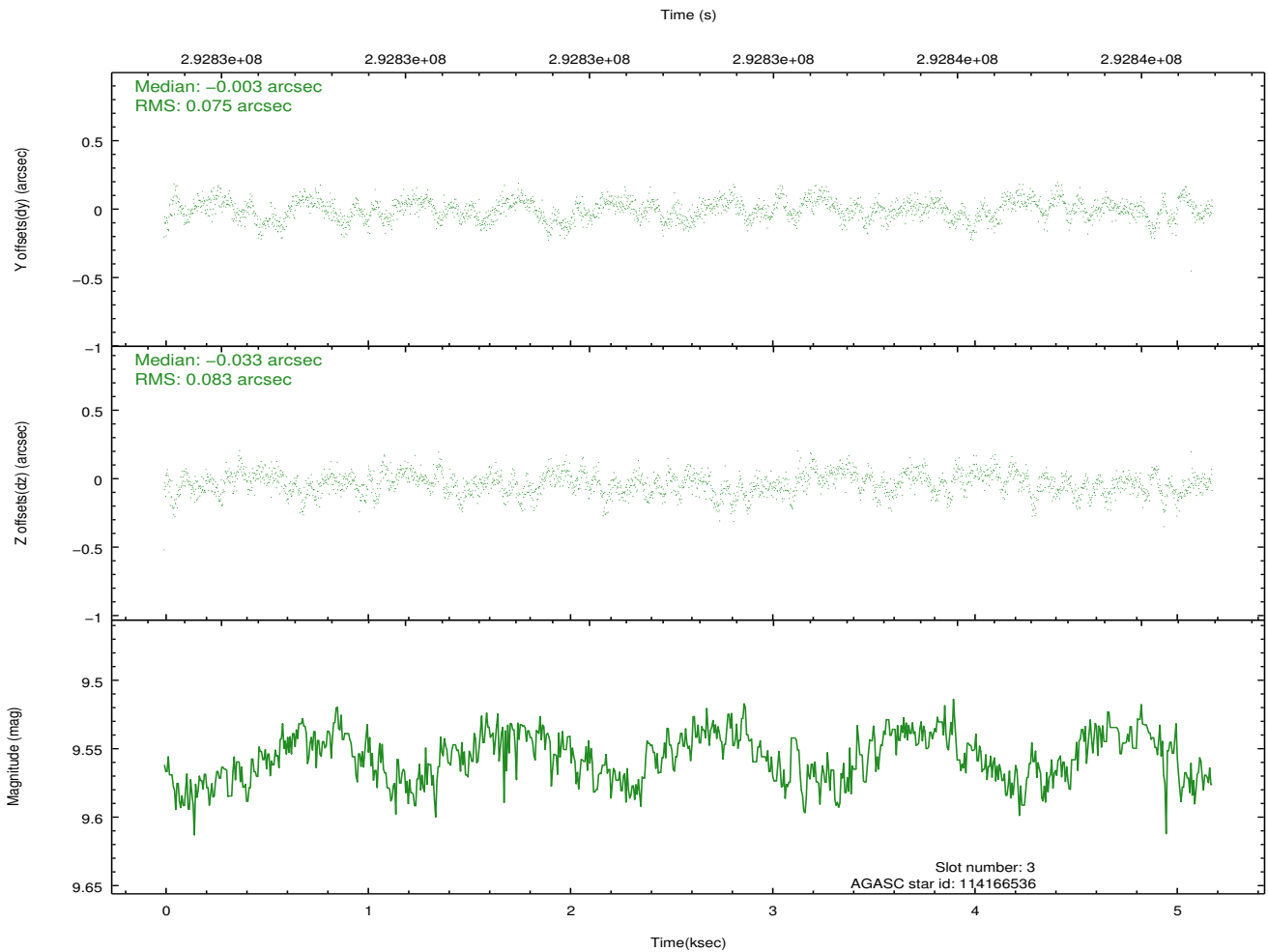
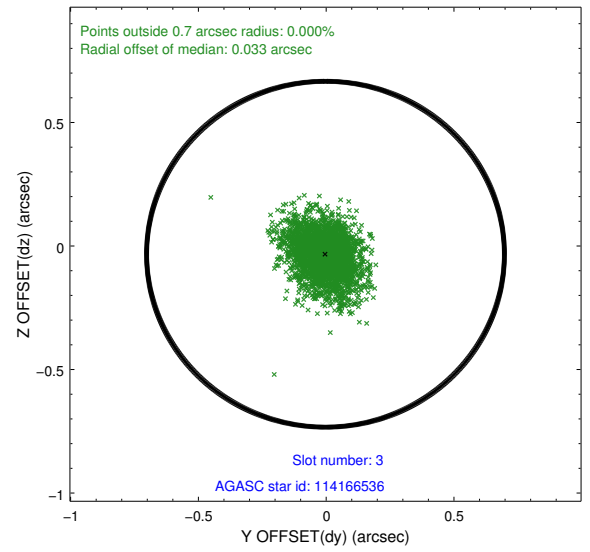
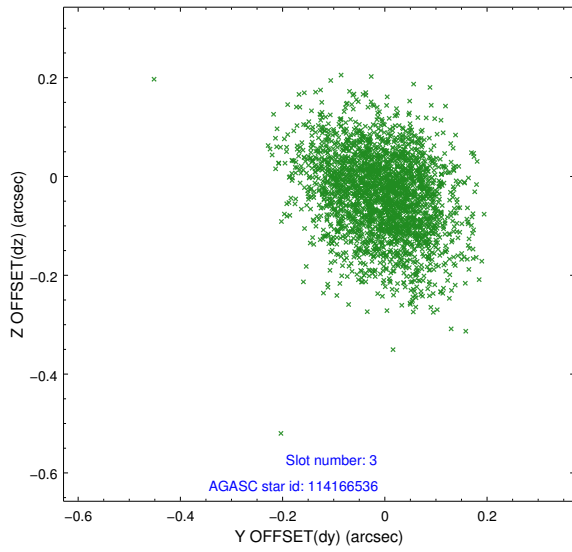


Slot Statistics

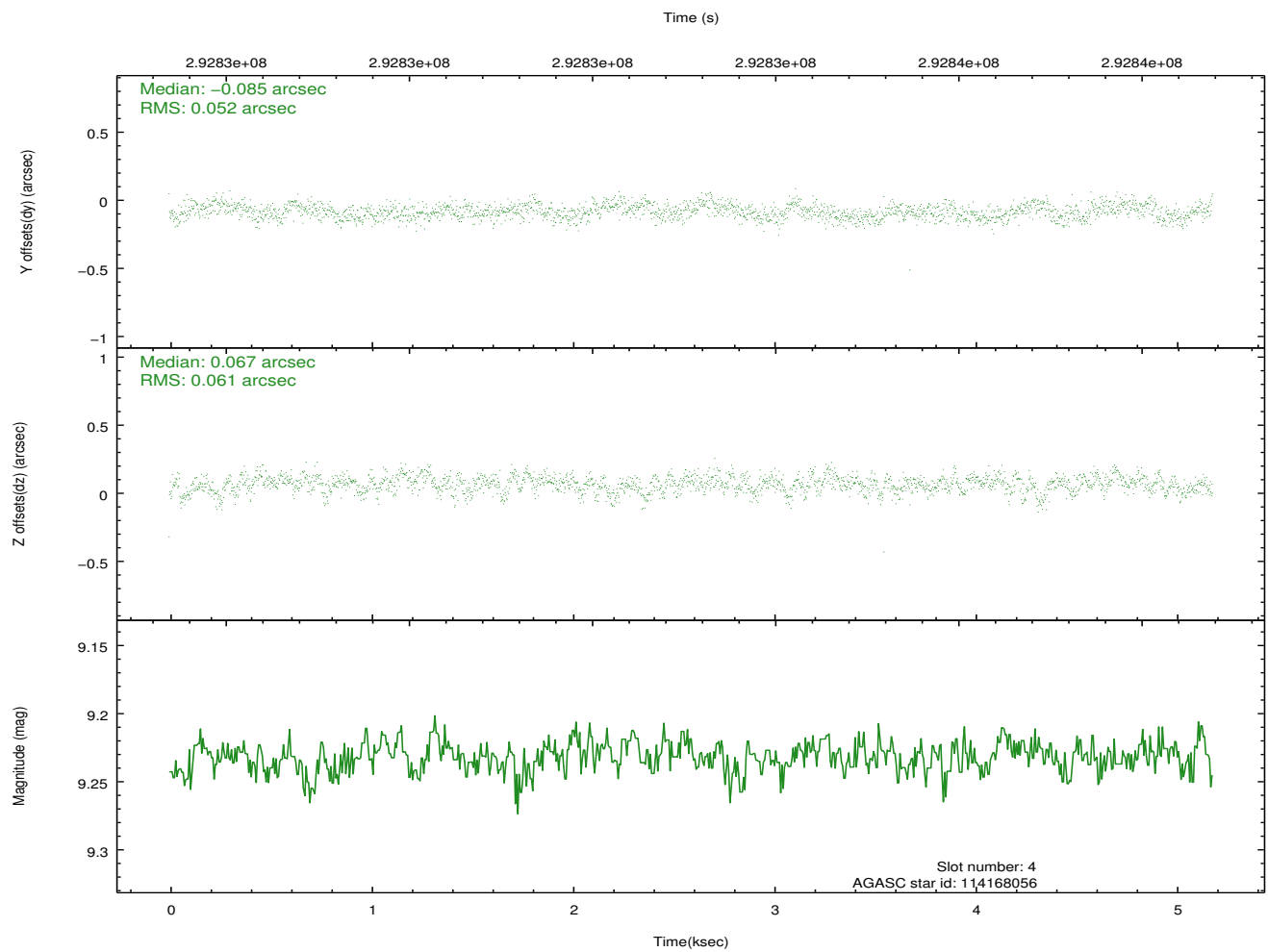
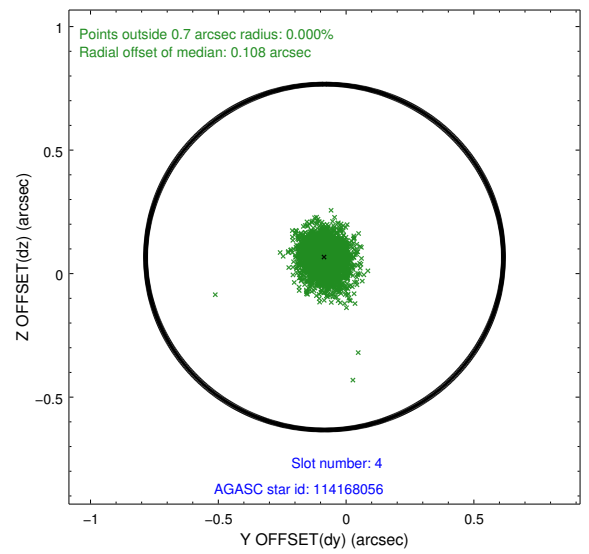
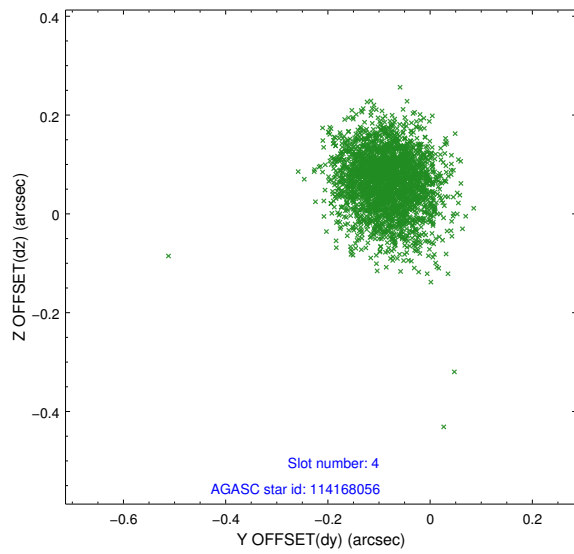
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1264	-0.066	-0.064	0.007	0.010	0.000000	0.000000	-767.14	-1735.25
1	FID	ACIS-S-4	7.20	1264	0.209	0.049	0.006	0.010	0.000000	0.000000	2145.88	172.12
2	FID	ACIS-S-5	7.23	1264	-0.174	0.023	0.007	0.011	0.000000	0.000000	-1818.59	167.11
3	GUIDE	114166536	9.56	2528	-0.003	-0.033	0.117	0.194	180.822887	13.018440	-173.35	2185.74
4	GUIDE	114168056	9.23	2526	-0.085	0.067	0.084	0.139	180.233962	13.643992	-248.06	-866.69
5	GUIDE	114168568	8.84	2529	-0.019	-0.128	0.080	0.132	180.436677	13.410367	-175.49	230.01
6	GUIDE	114169424	8.67	2529	0.105	0.040	0.066	0.109	180.264599	13.008339	1262.96	854.70
7	GUIDE	114169712	9.63	2523	-0.001	0.067	0.143	0.232	180.474987	12.718526	1455.70	2118.20

2.4 Star Slots

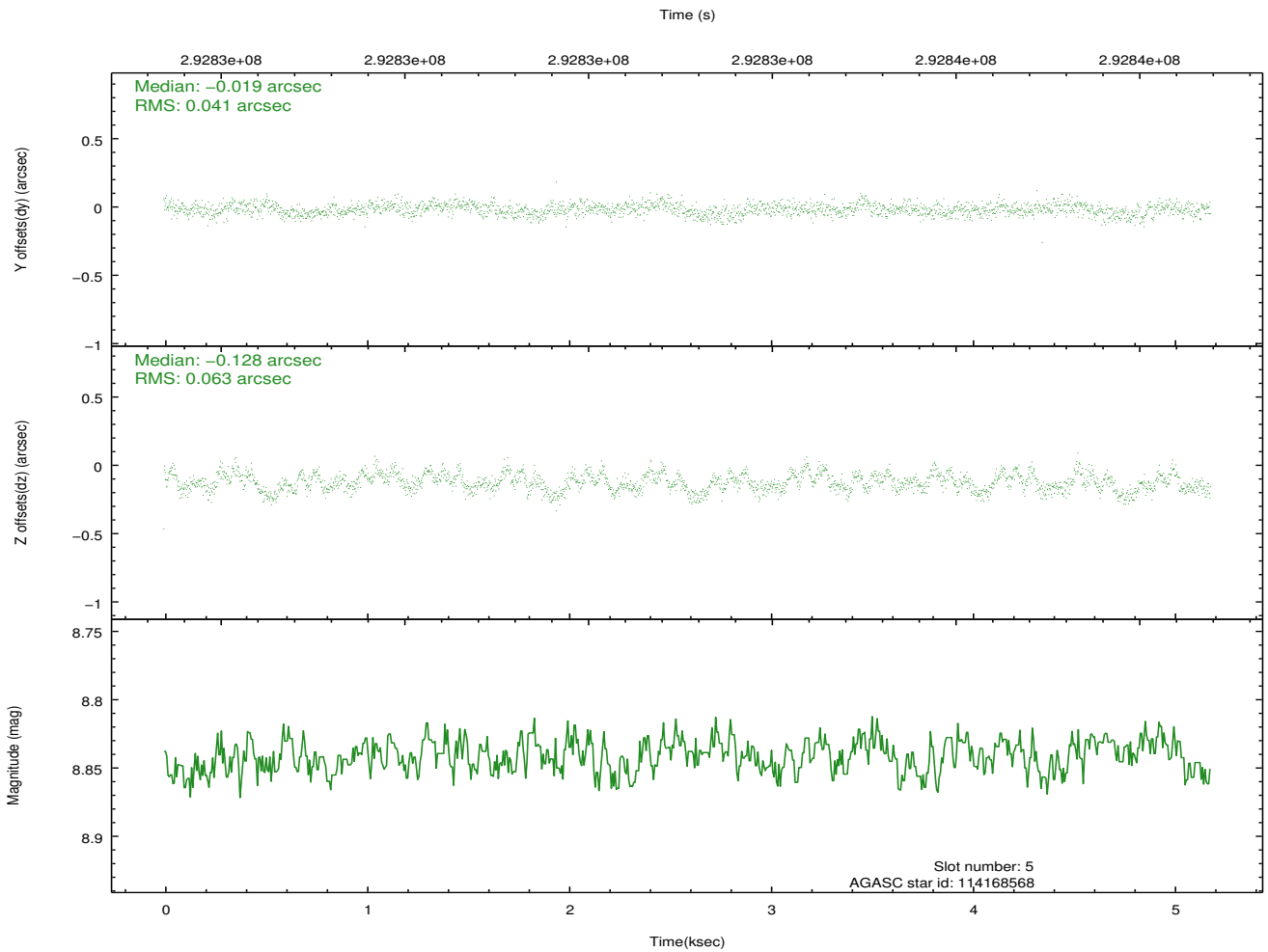
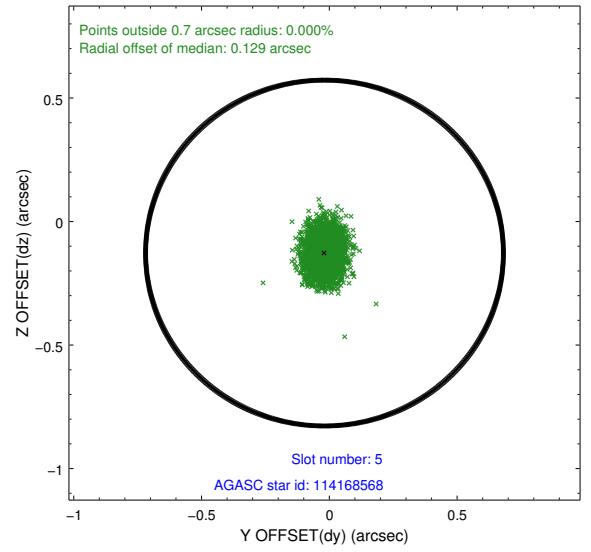
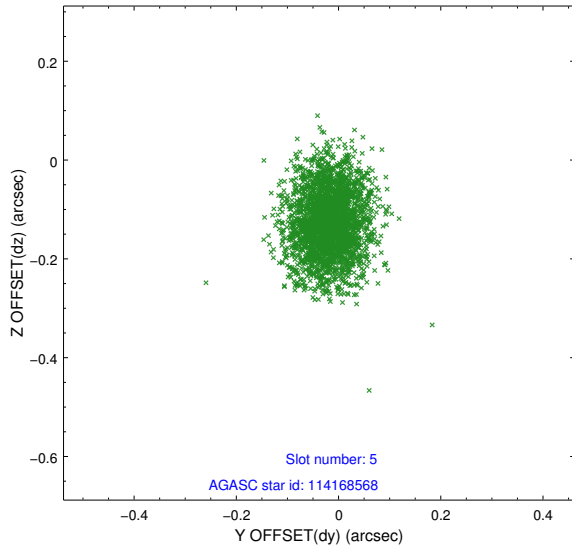
2.4.1 Slot 3



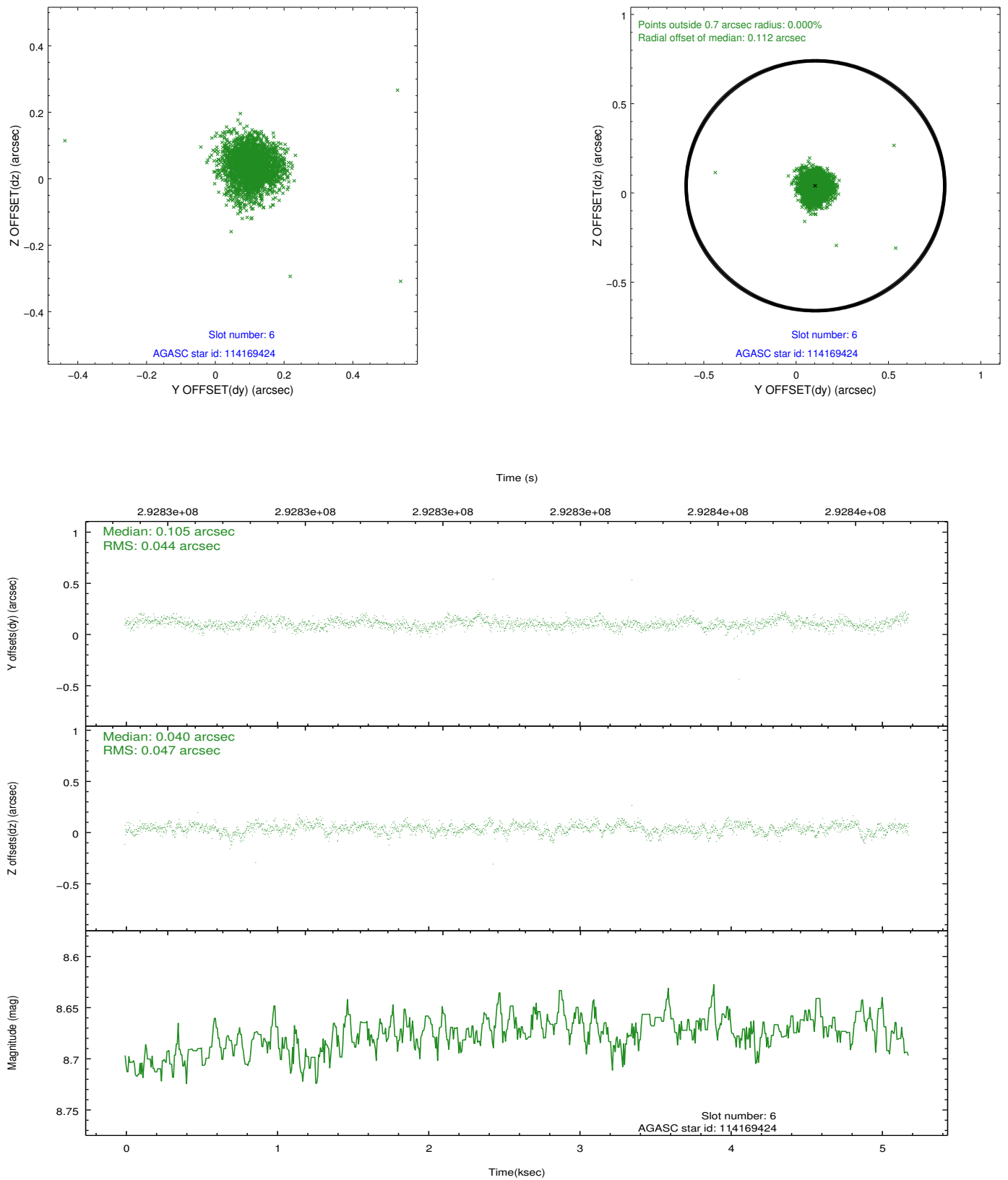
2.4.2 Slot 4



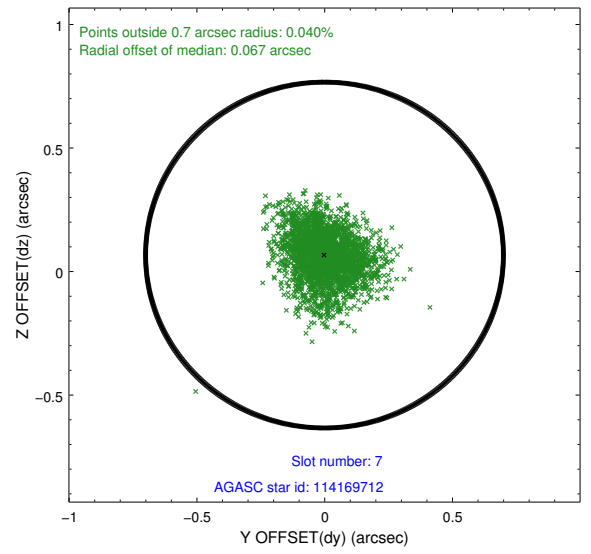
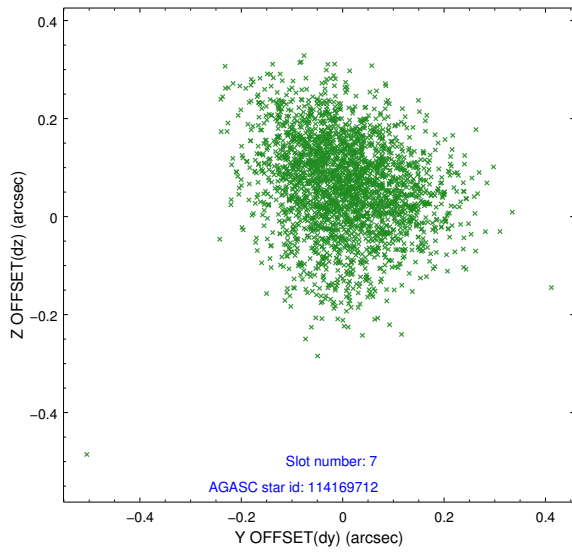
2.4.3 Slot 5



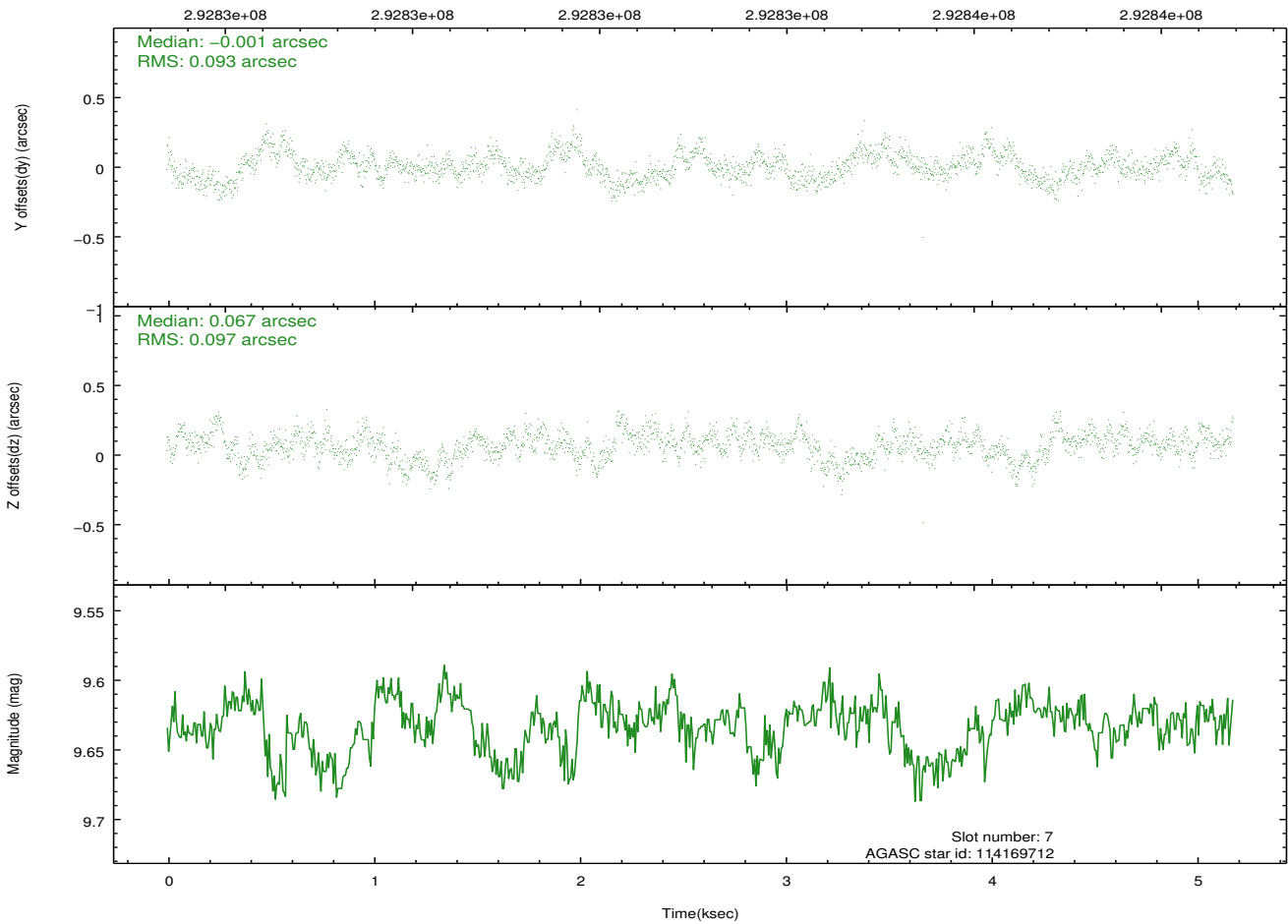
2.4.4 Slot 6



2.4.5 Slot 7

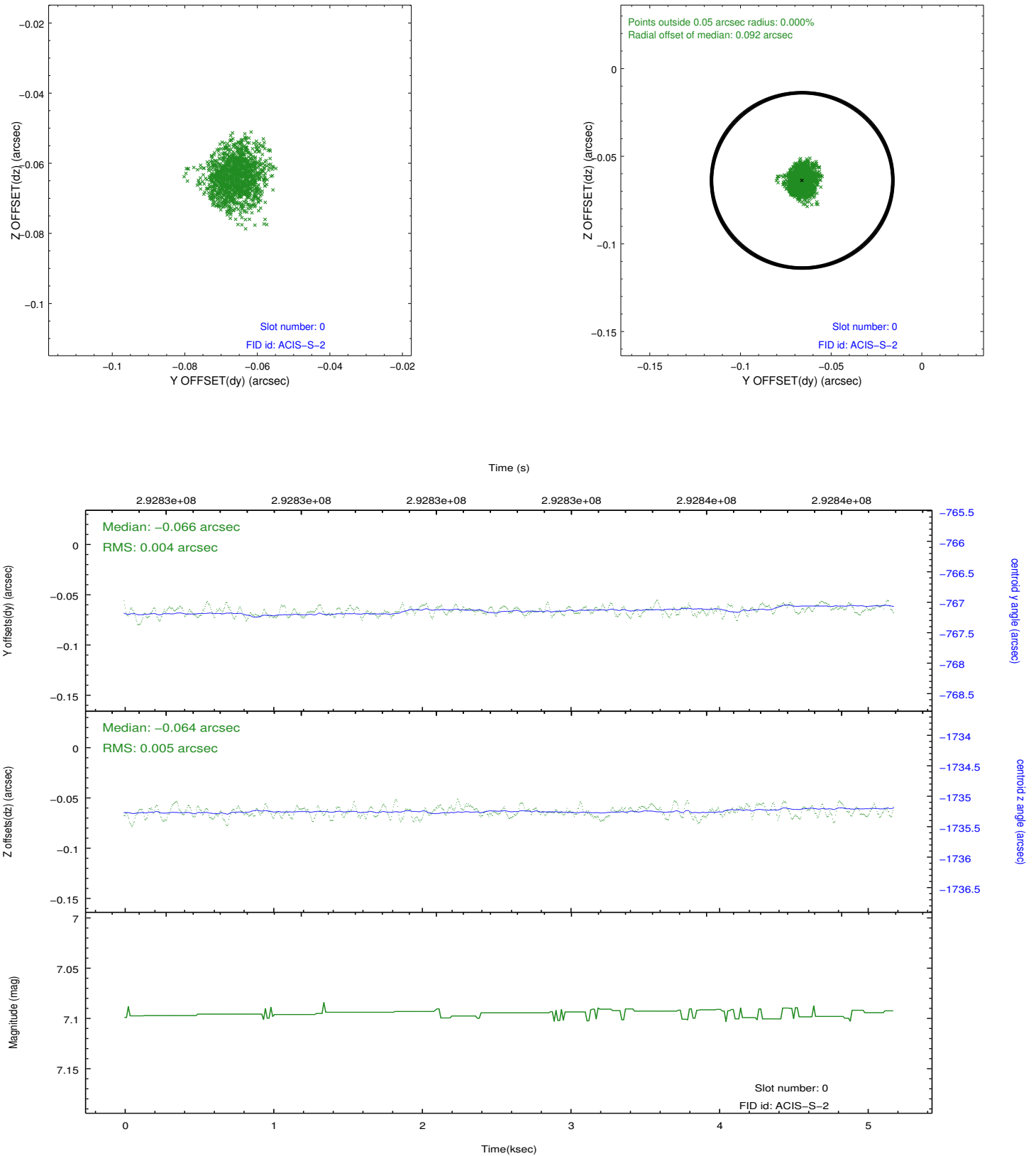


Time (s)

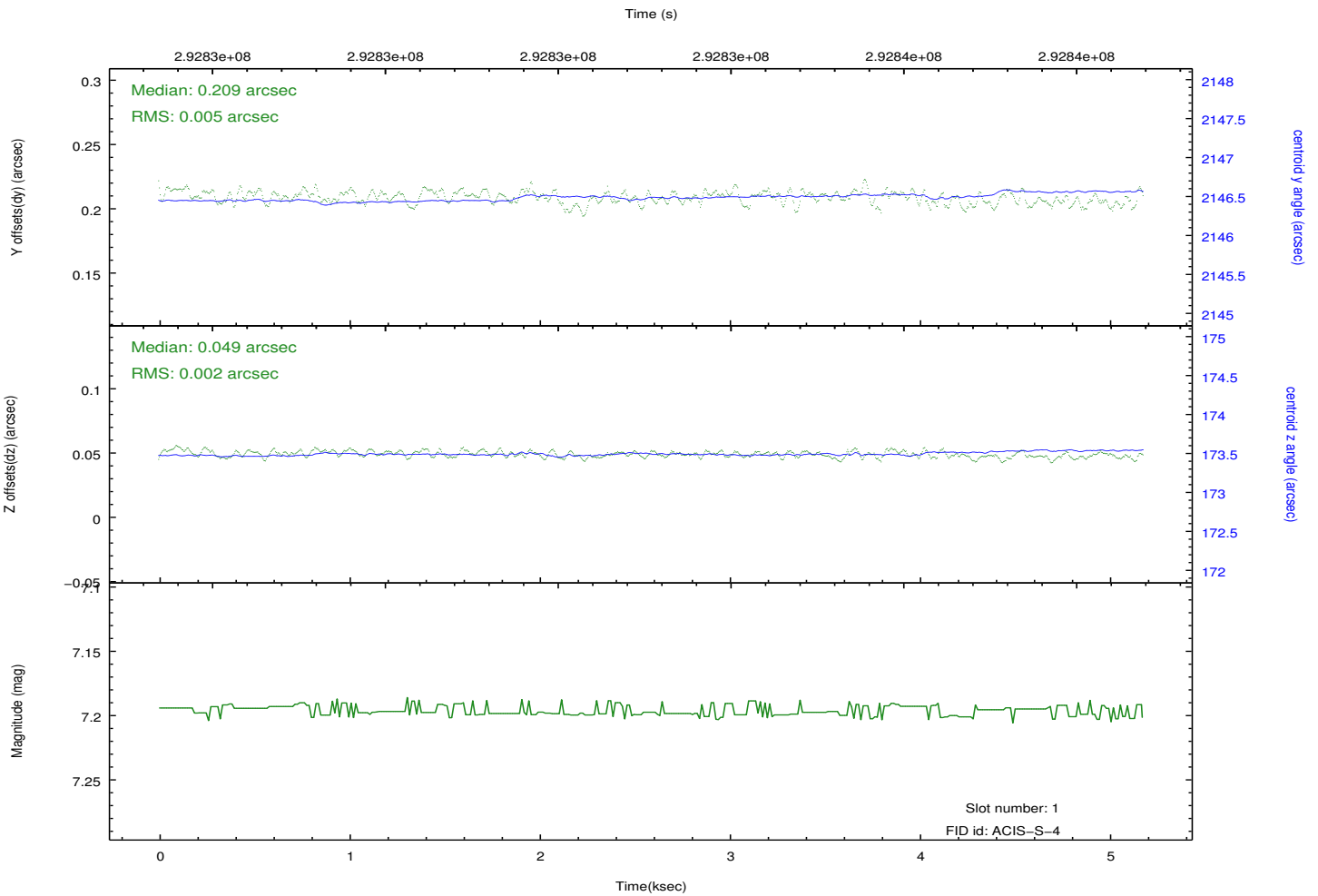
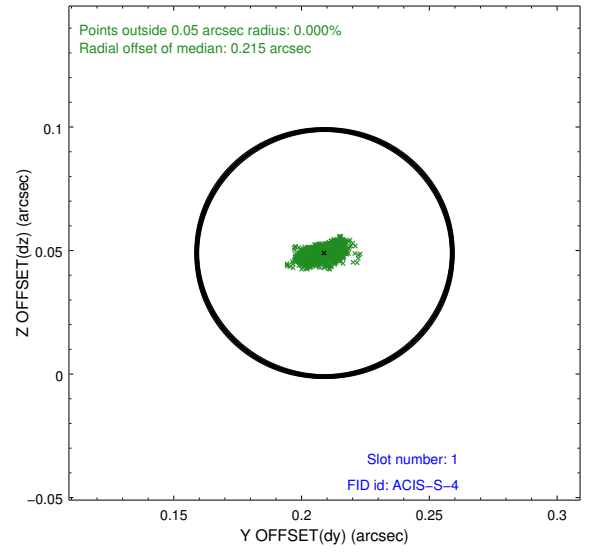
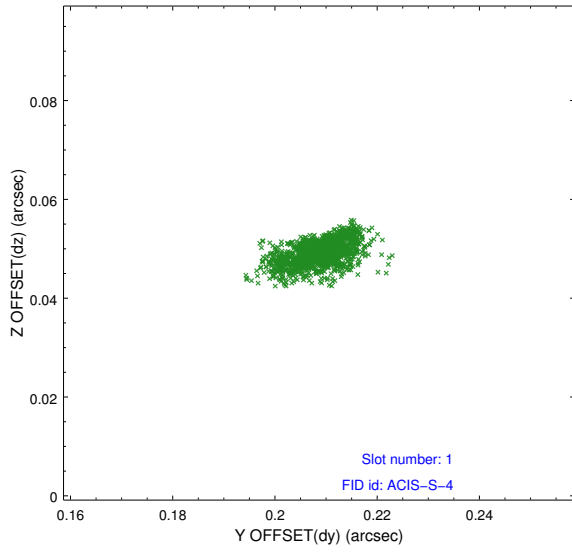


2.5 FID Slots

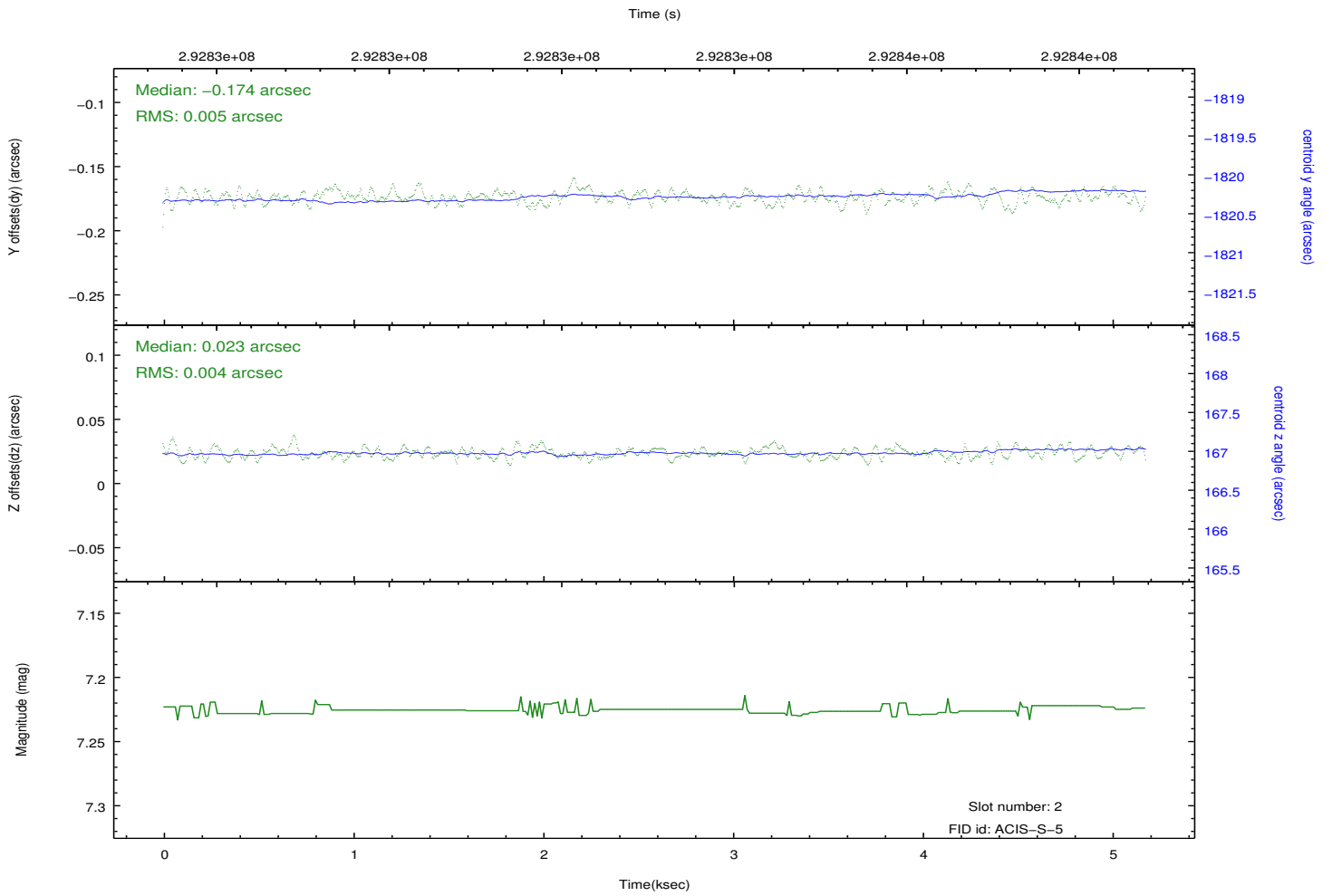
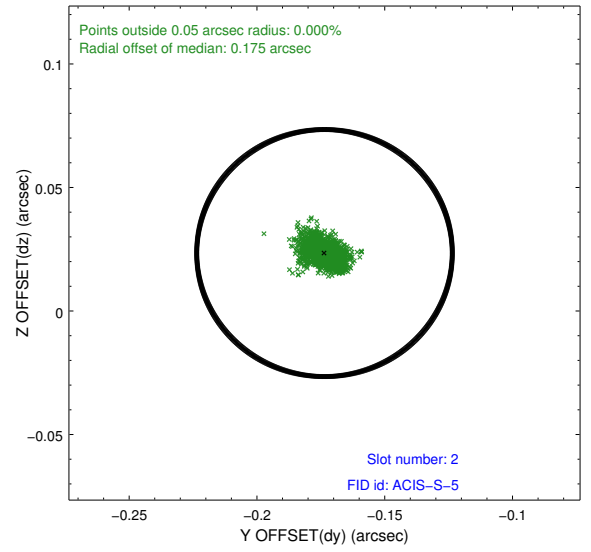
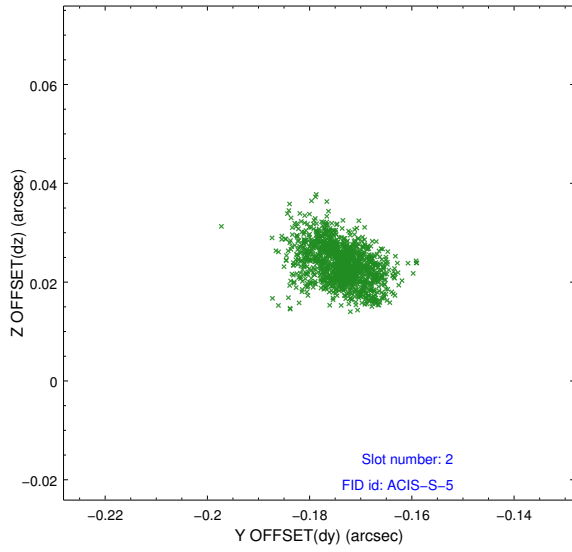
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.75839998

A.2 Comments