

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8130 - L2 Version 3
Chandra X-Ray Center

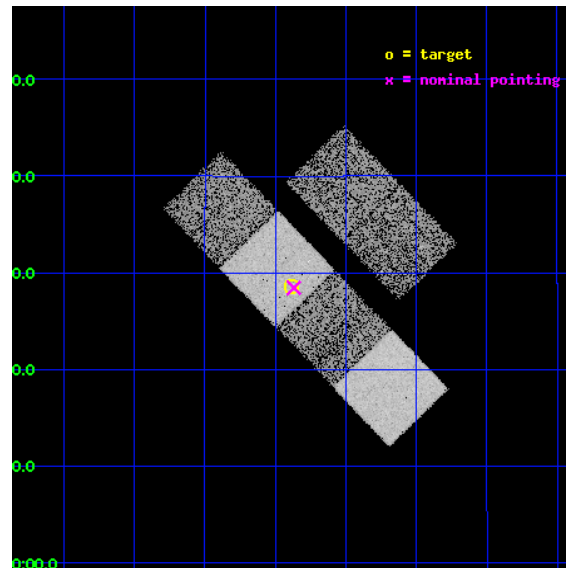
L2 Processing Date : Apr 23 2012

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1 Front

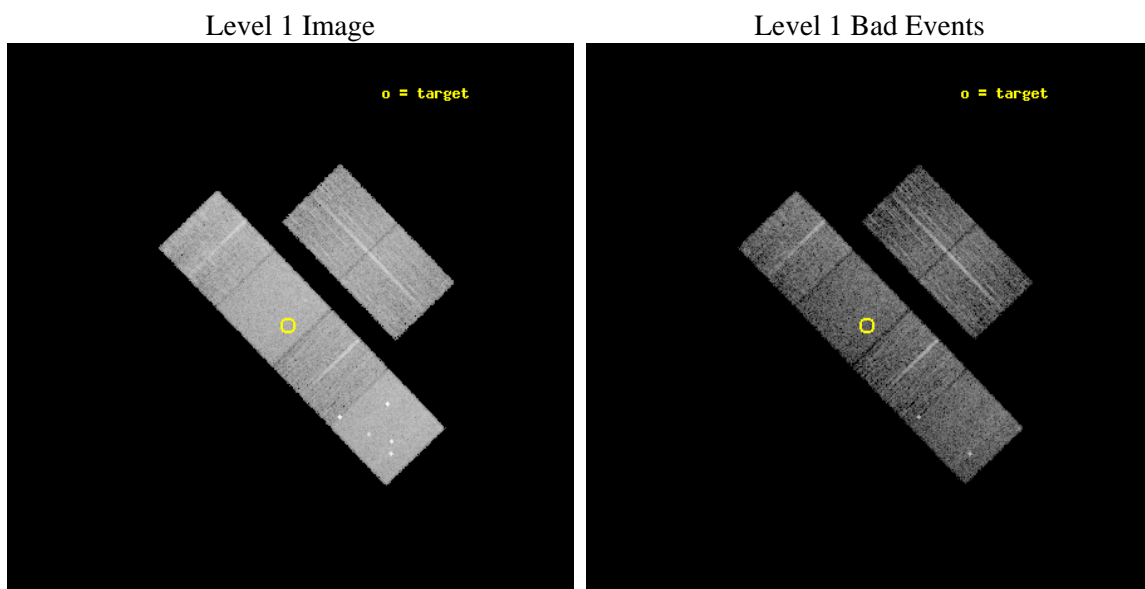
seq_num	900671	Sequence number
obs_id	8130	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1857	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.22125	Observer's specified target RA [deg]
dec_targ	10.476111	Observer's specified target Dec [deg]
ra_nom	190.21714567555	Nominal RA [deg]
dec_nom	10.474186308861	Nominal Dec [deg]
roll_nom	225.9374725288	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5155.199980855	Sum of GTIs [s]
livetime	5089.9217346086	Livetime [s]
ontime2	5155.199980855	Sum of GTIs [s]
ontime3	5155.199980855	Sum of GTIs [s]
ontime5	5155.199980855	Sum of GTIs [s]
ontime6	5155.199980855	Sum of GTIs [s]
ontime7	5155.199980855	Sum of GTIs [s]
ontime8	5148.7180500031	Sum of GTIs [s]
l2events	79818	Number of level 2 events



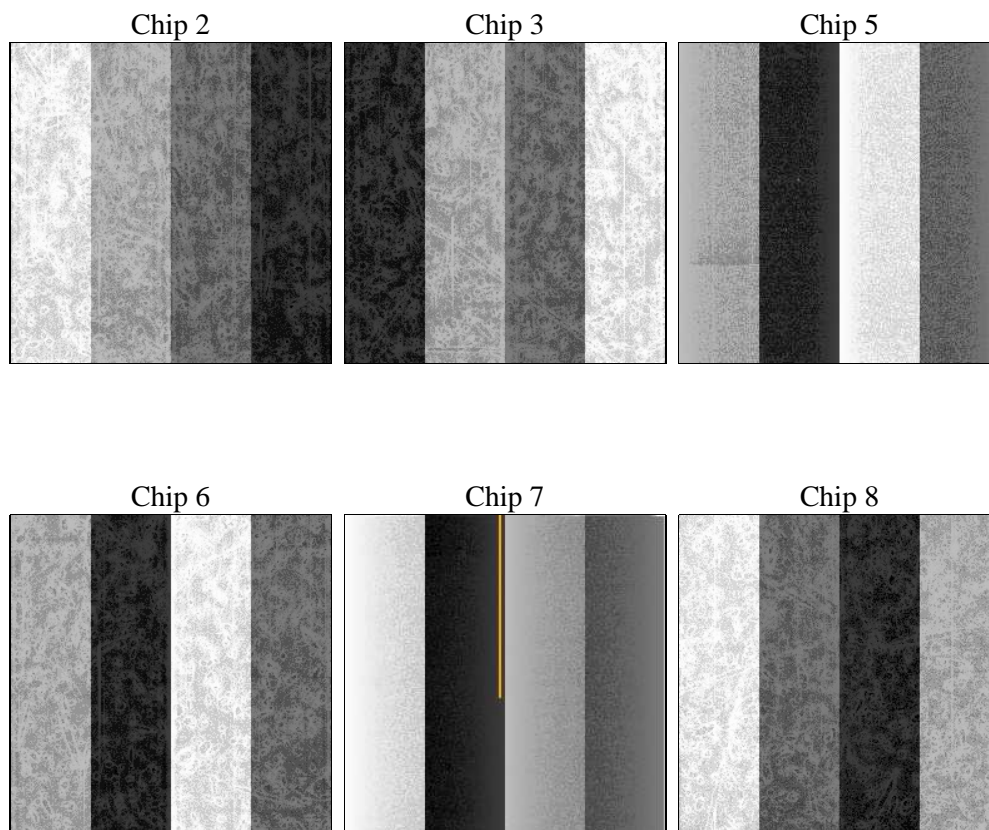
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5155.199980855	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5155.199980855	Sum of GTIs [s]
date	2012-04-23T20:46:04	Date and time of file creation	ontime3	5155.199980855	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5155.199980855	Sum of GTIs [s]
			ontime6	5155.199980855	Sum of GTIs [s]
			ontime7	5155.199980855	Sum of GTIs [s]
			ontime8	5148.7180500031	Sum of GTIs [s]
			l1events	352906	Number of level 1 events

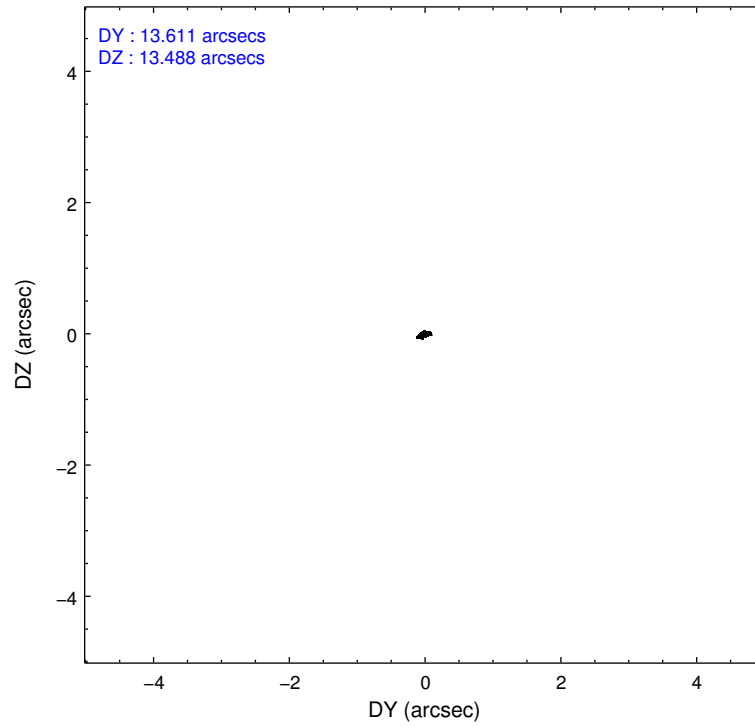
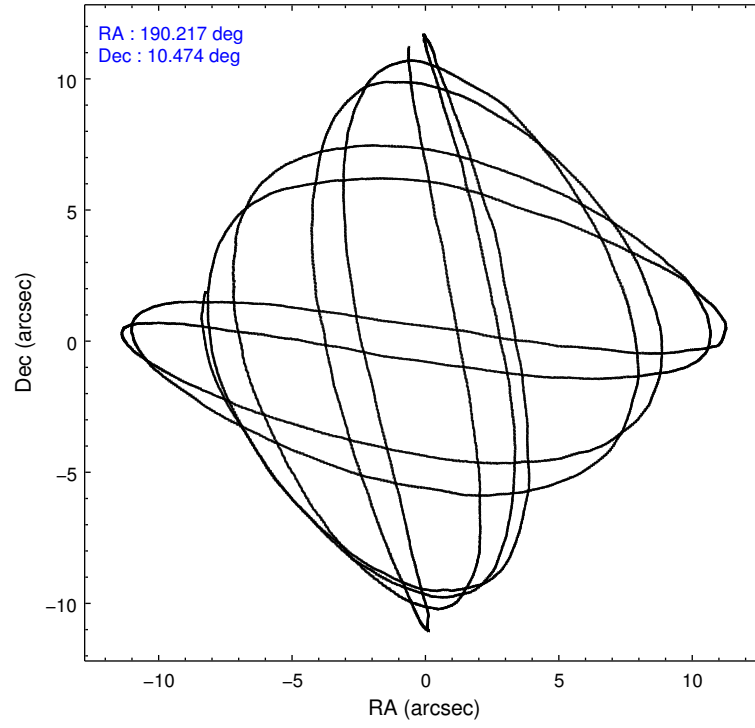
2.1.4 Events

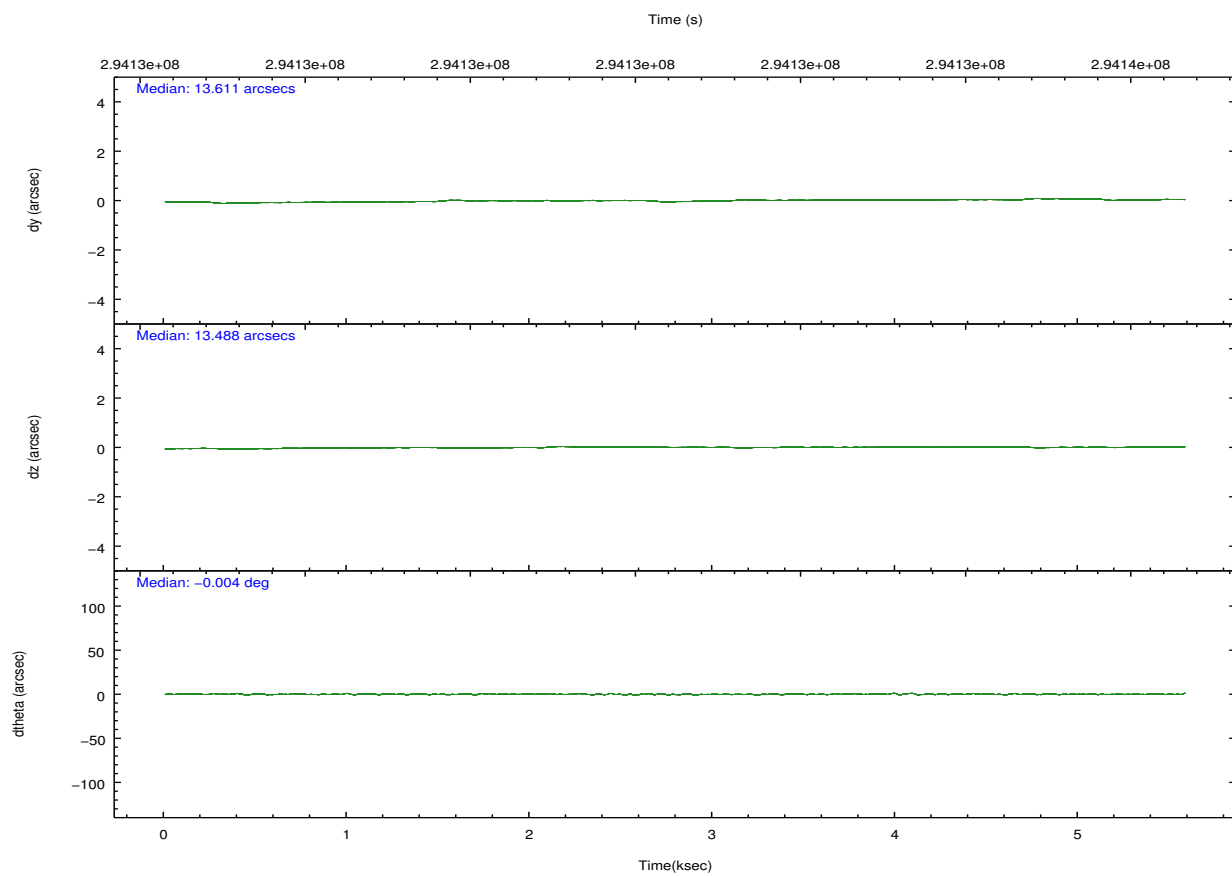
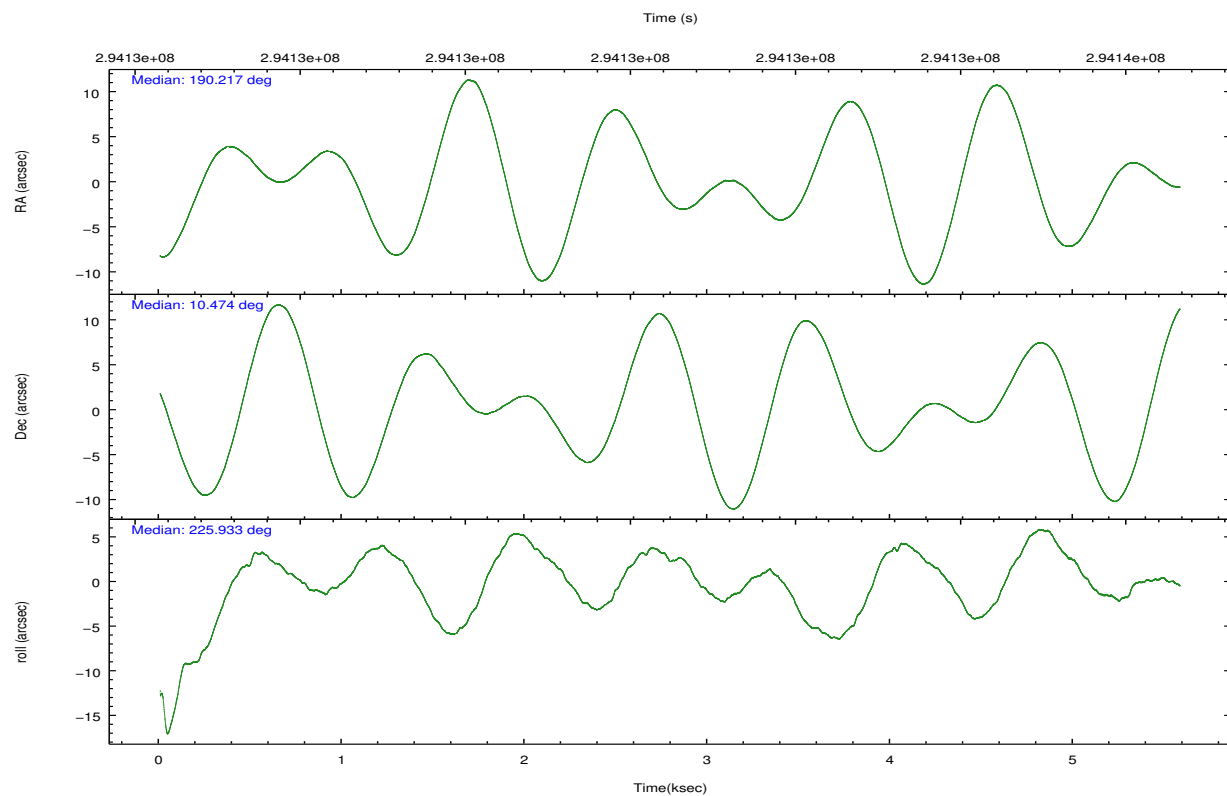
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50085	46931	77553	47836	66594	63907	grade 0 events	2556	2481	5190	2339	2582	4138
rejected events	44297	41146	40623	41960	38676	50564		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	52%	87%	58%	79%	grade 1 events	25	17	235	26	61	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1233	1171	10441	1215	5560	2980
								2%	2%	13%	2%	8%	4%
							grade 3 events	518	564	1418	589	2395	1306
								1%	1%	1%	1%	3%	2%
							grade 4 events	521	528	1321	528	2433	1238
								1%	1%	1%	1%	3%	1%
							grade 5 events	1924	2205	5526	2222	6359	2793
								3%	4%	7%	4%	9%	4%
							grade 6 events	967	1044	18587	1209	14972	3688
								1%	2%	23%	2%	22%	5%
							grade 7 events	42341	38921	34835	39708	32232	47706
								84%	82%	44%	83%	48%	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	190.223546	190.2171456755492	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.500898	10.47418630886086	Alternating exposures requested	N	N
[deg] Pointing Roll	225.779674	225.937472528801	[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)	294129630.184000	294129209.82421			
Observation start date	2007-04-28T06:39:25	2007-04-28T06:33:29			
[s] Observation end time (MET)	294135030.184000	294135301.3995			
Observation end date	2007-04-28T08:09:25	2007-04-28T08:15:01			
Read mode	TIMED	TIMED			

2.3 Aspect



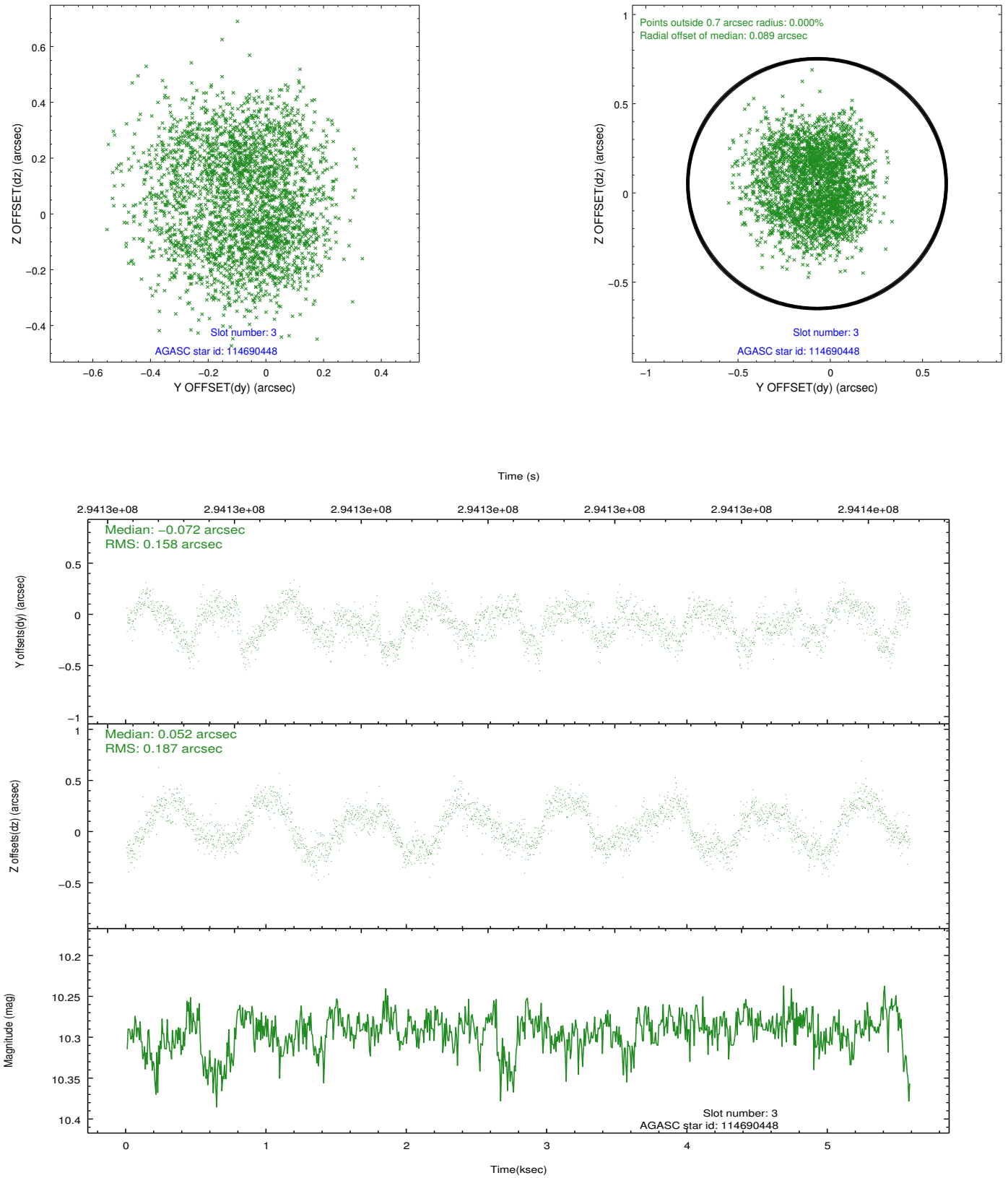


Slot Statistics

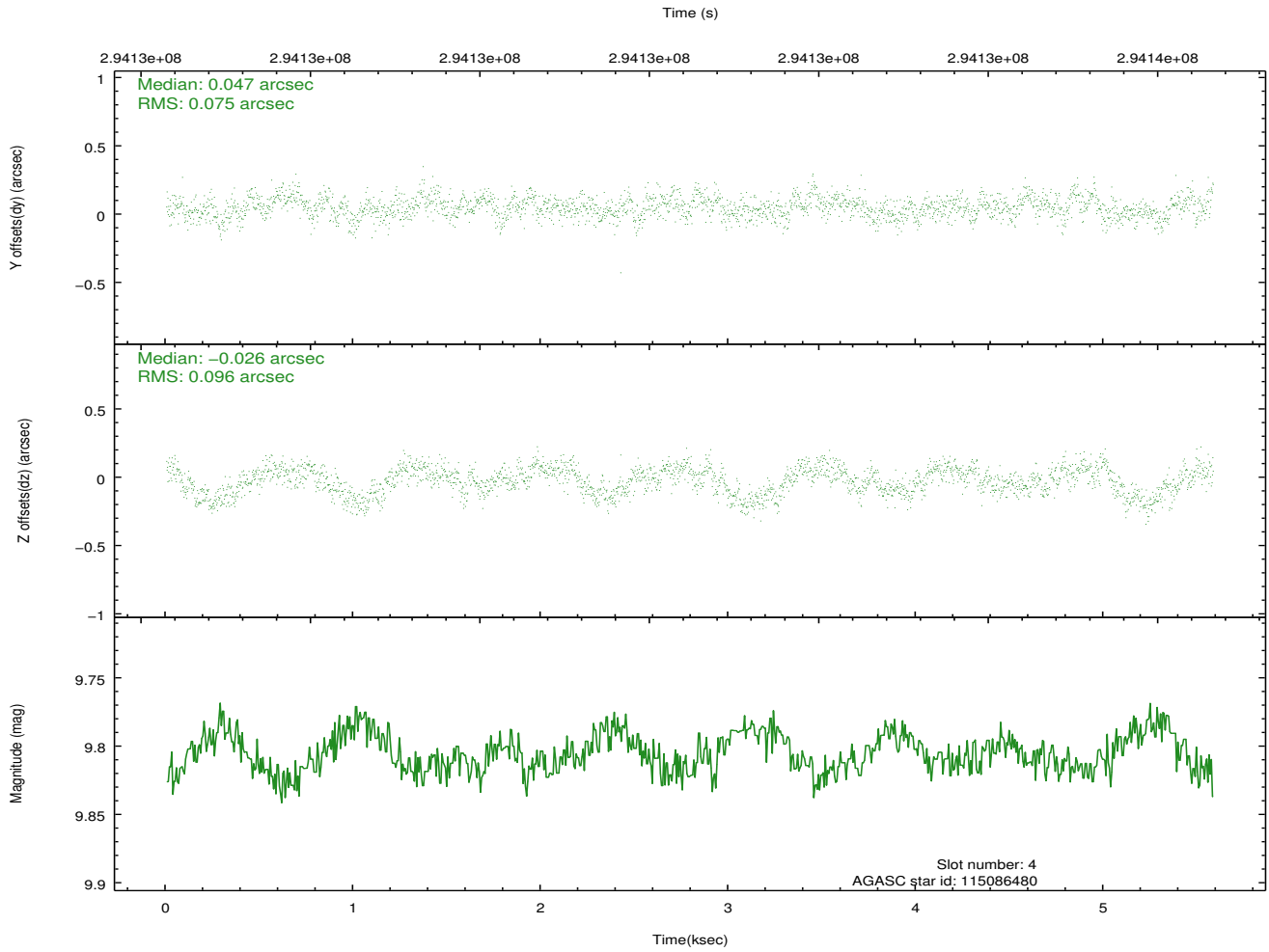
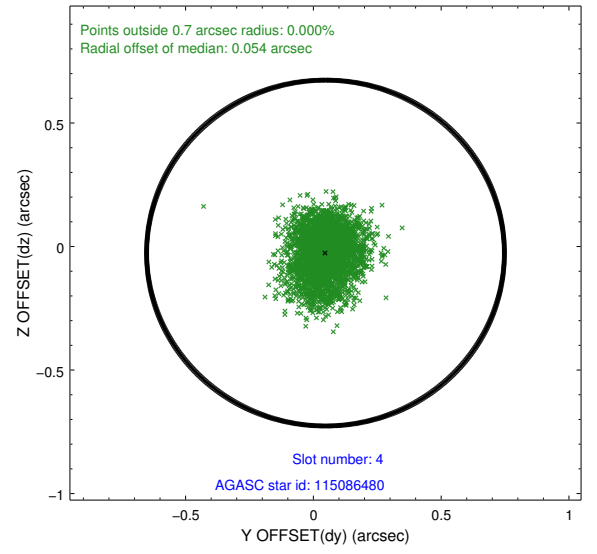
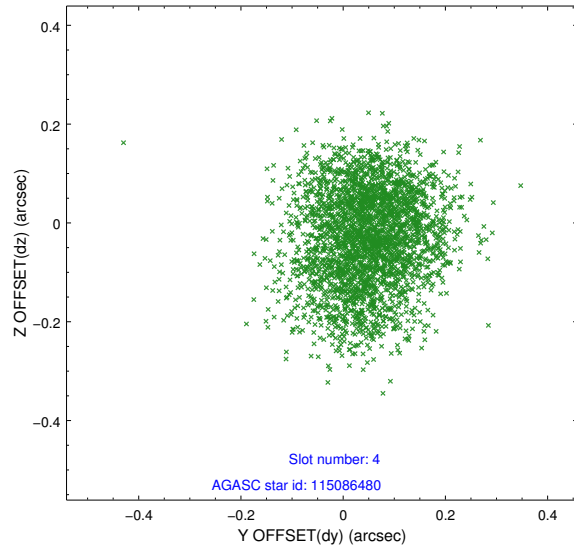
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1361	-0.038	-0.069	0.007	0.011	0.000000	0.000000	-766.58	-1734.83
1	FID	ACIS-S-4	7.19	1361	0.185	0.037	0.007	0.013	0.000000	0.000000	2146.43	172.63
2	FID	ACIS-S-5	7.22	1361	-0.178	0.041	0.006	0.011	0.000000	0.000000	-1818.18	167.55
3	GUIDE	114690448	10.29	2715	-0.072	0.052	0.271	0.394	189.947282	9.905985	2217.87	791.91
4	GUIDE	115086480	9.81	2719	0.047	-0.026	0.132	0.205	190.542253	10.883394	-1771.96	-153.27
5	GUIDE	115087240	9.25	2721	0.125	-0.127	0.108	0.168	189.980657	10.358703	966.21	-259.90
6	GUIDE	115087784	8.87	2721	-0.195	0.039	0.080	0.126	190.162527	10.931081	-958.69	-1235.33
7	GUIDE	115089280	9.93	2717	0.116	0.073	0.181	0.292	189.884544	10.291646	1376.84	-336.05

2.4 Star Slots

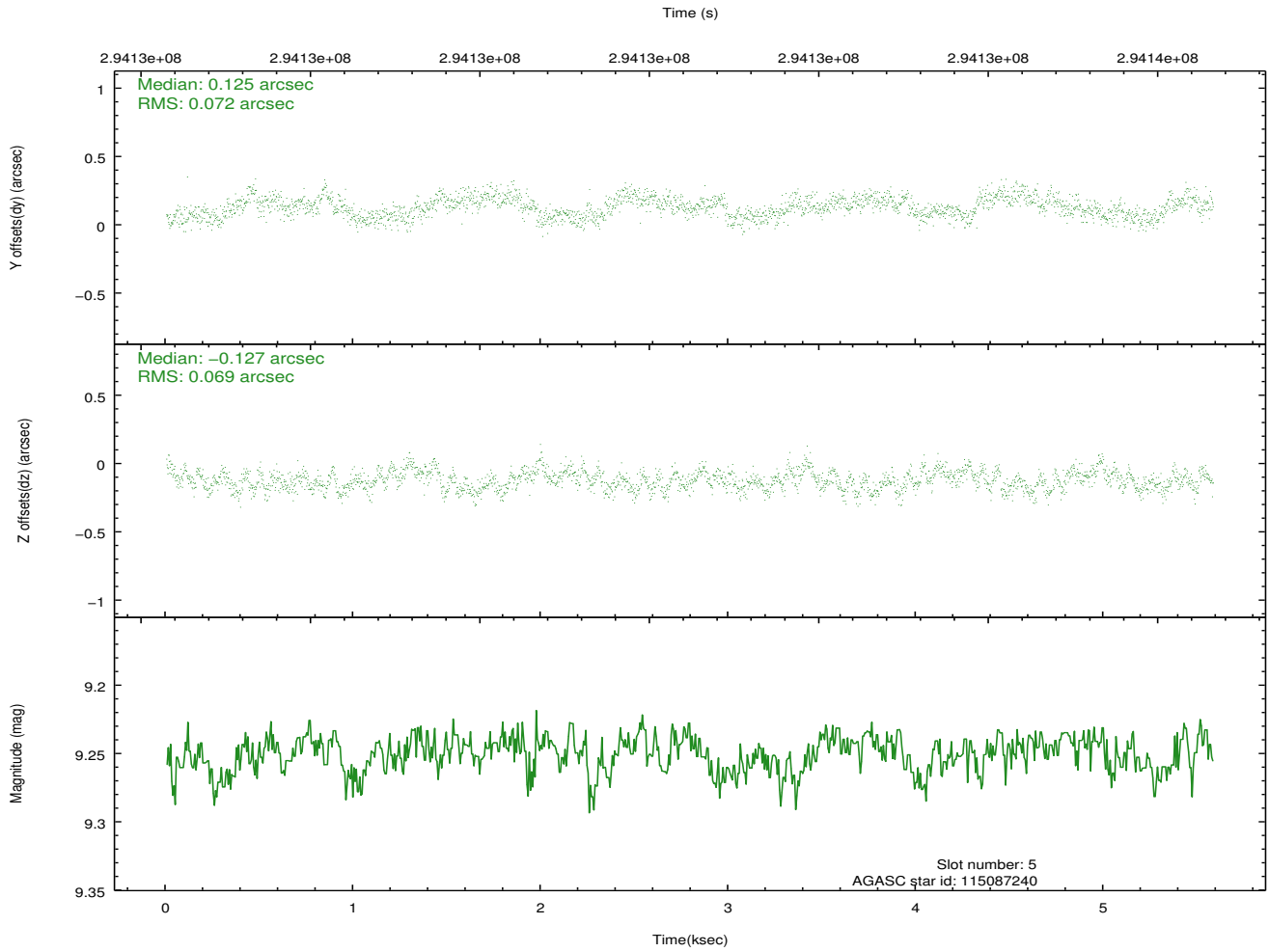
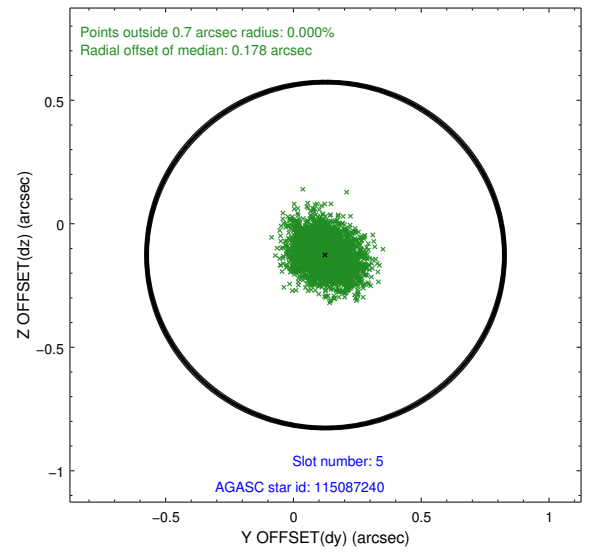
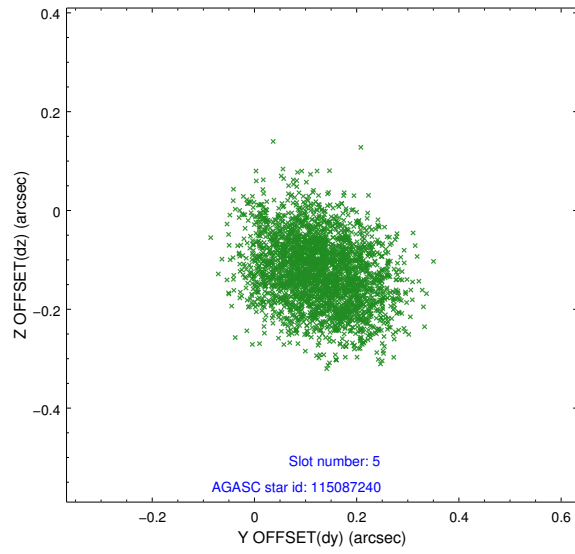
2.4.1 Slot 3



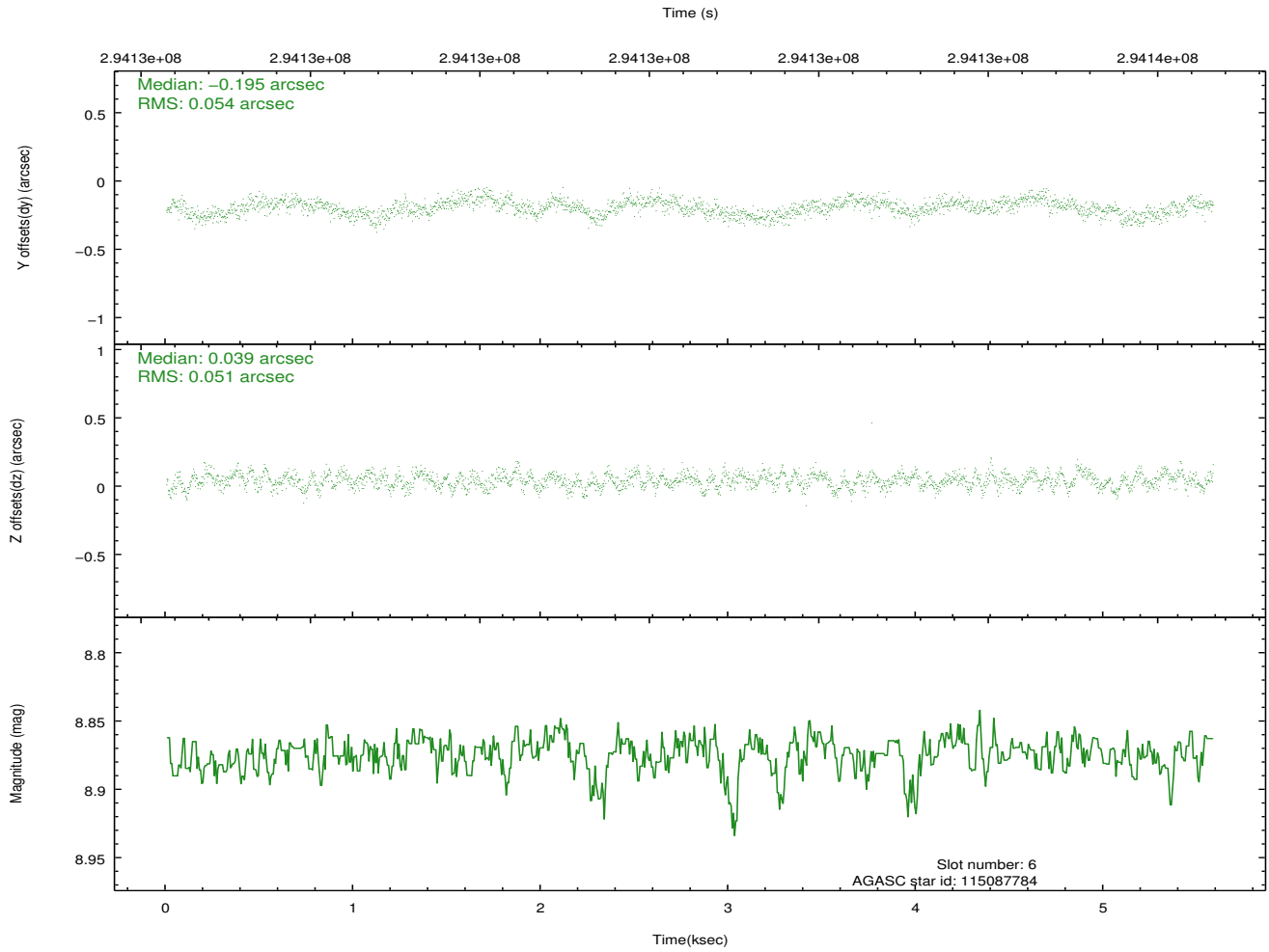
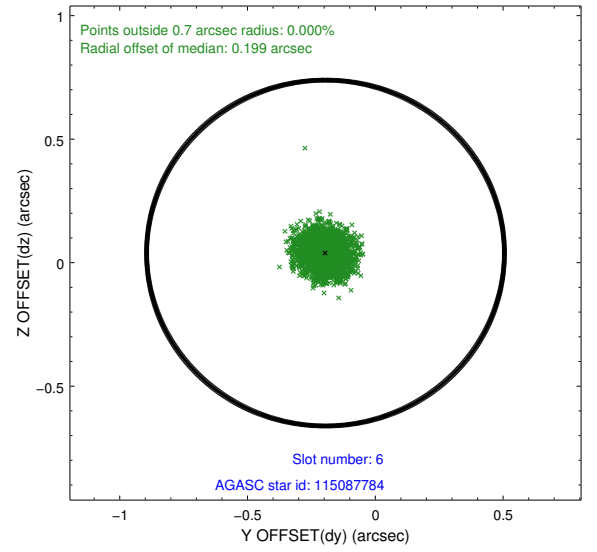
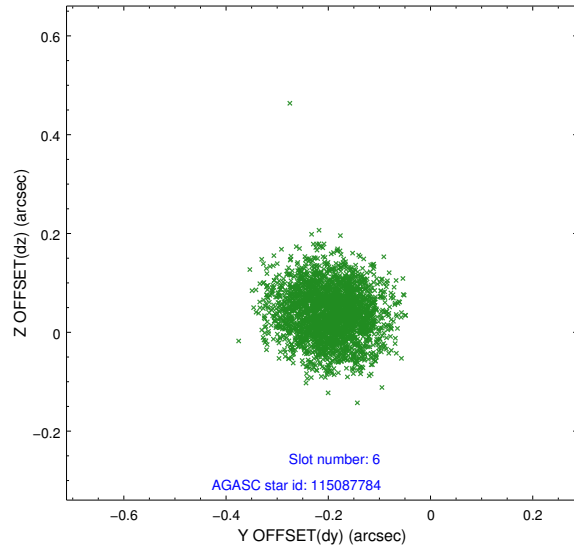
2.4.2 Slot 4



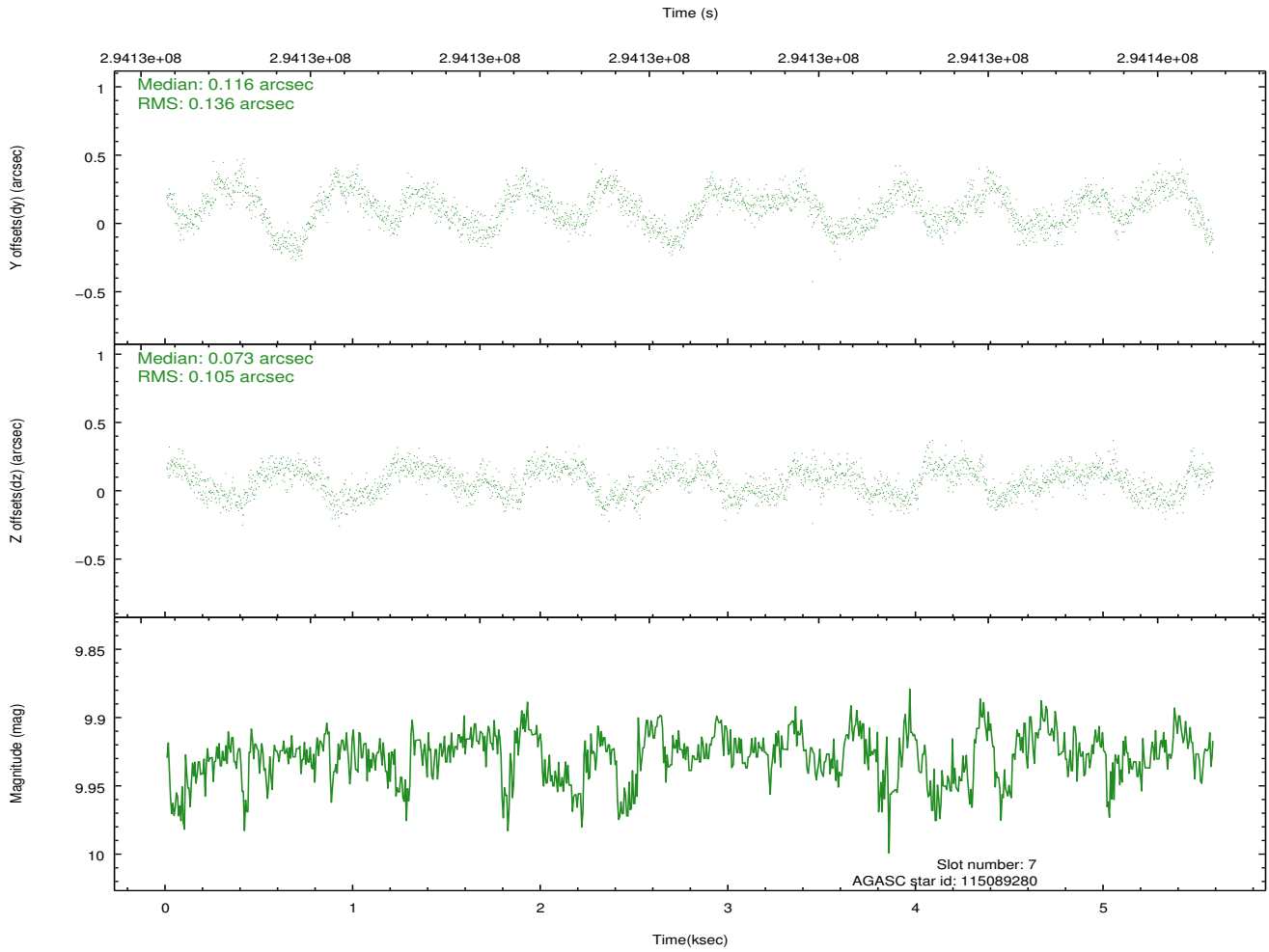
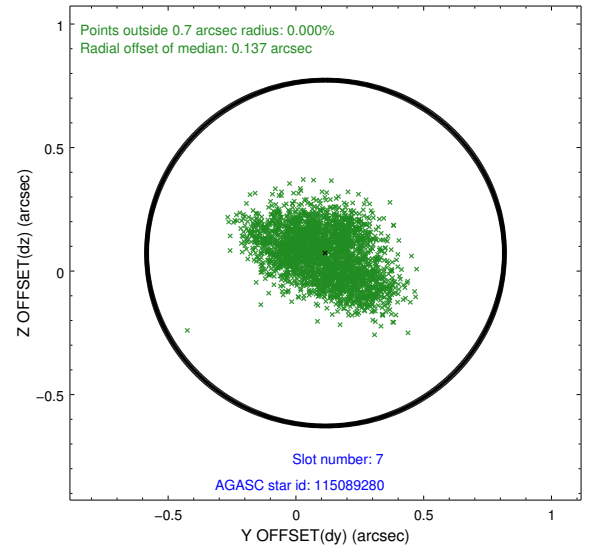
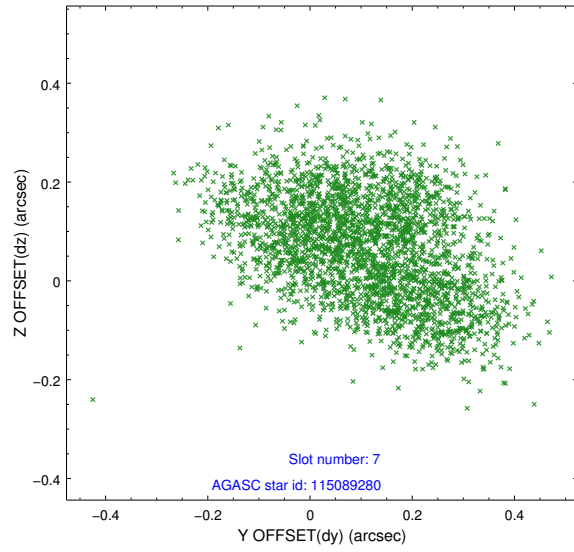
2.4.3 Slot 5



2.4.4 Slot 6

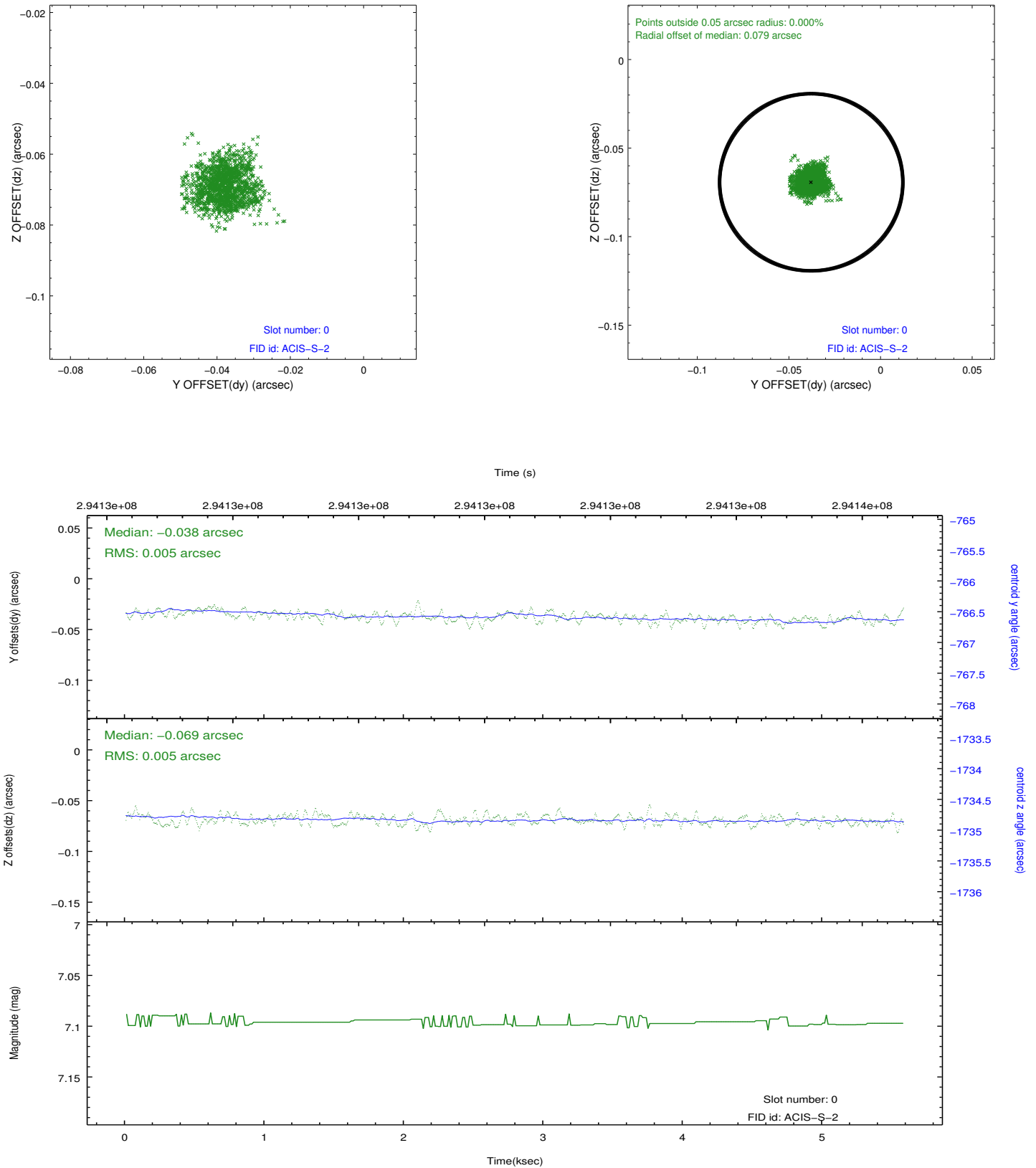


2.4.5 Slot 7

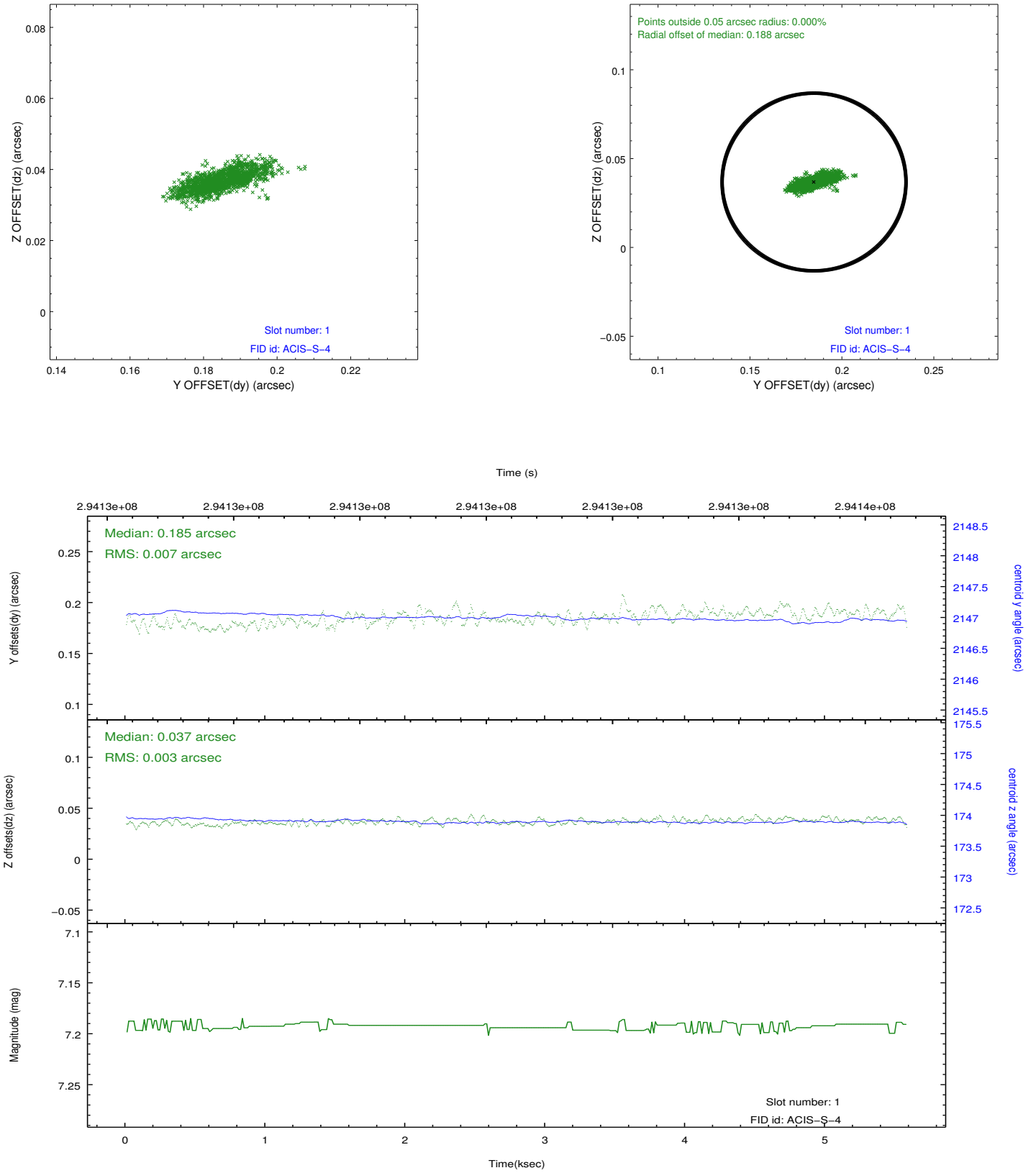


2.5 FID Slots

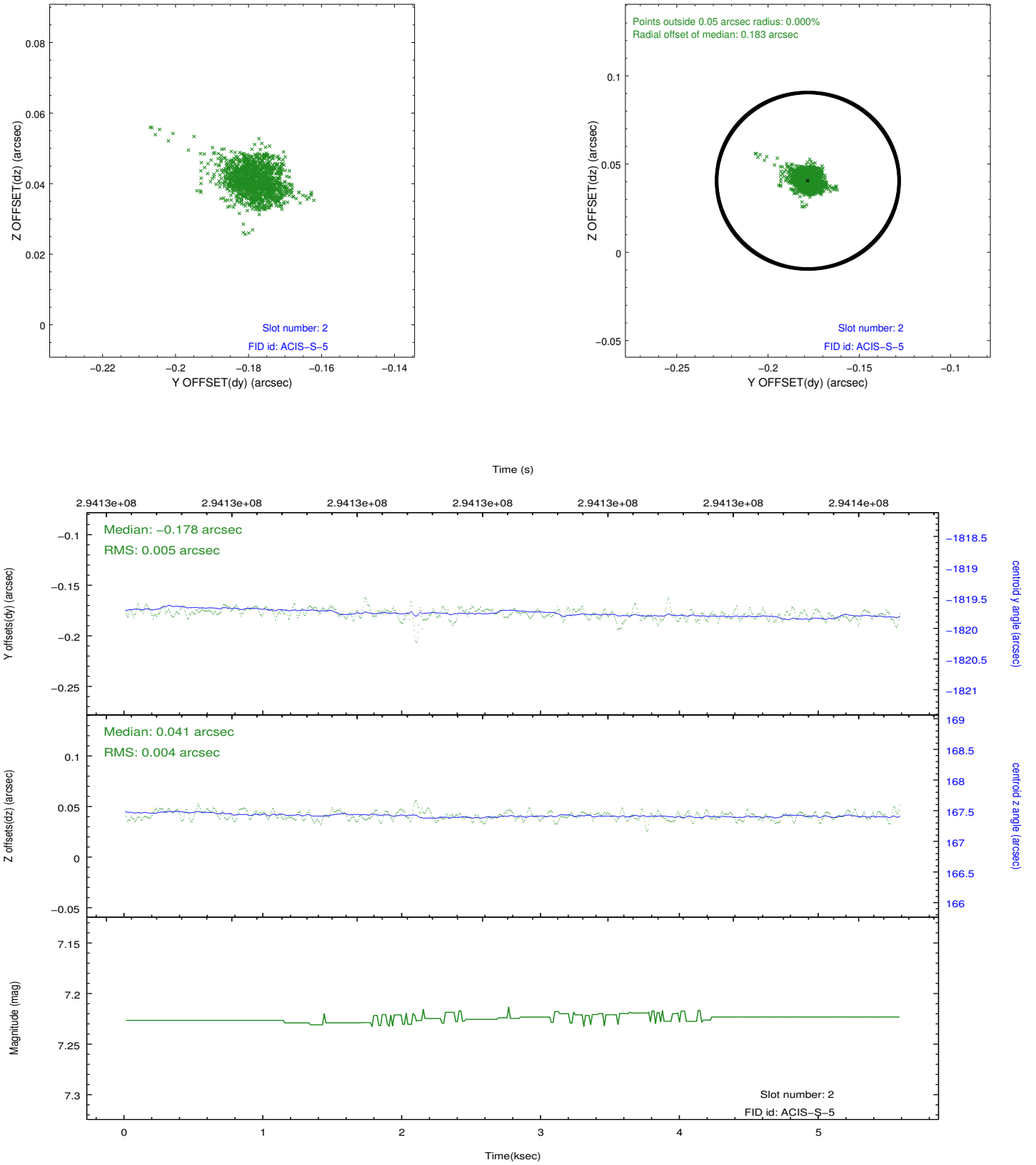
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint proposal with Spitzer.