

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8072 - L2 Version 3
Chandra X-Ray Center

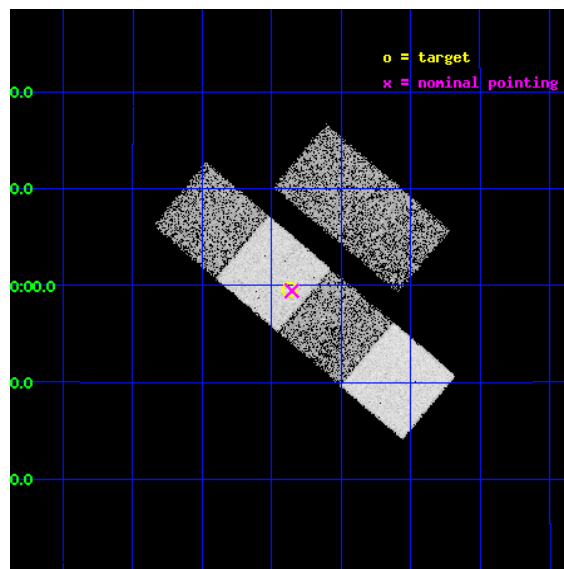
L2 Processing Date : Apr 23 2012

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1 Front

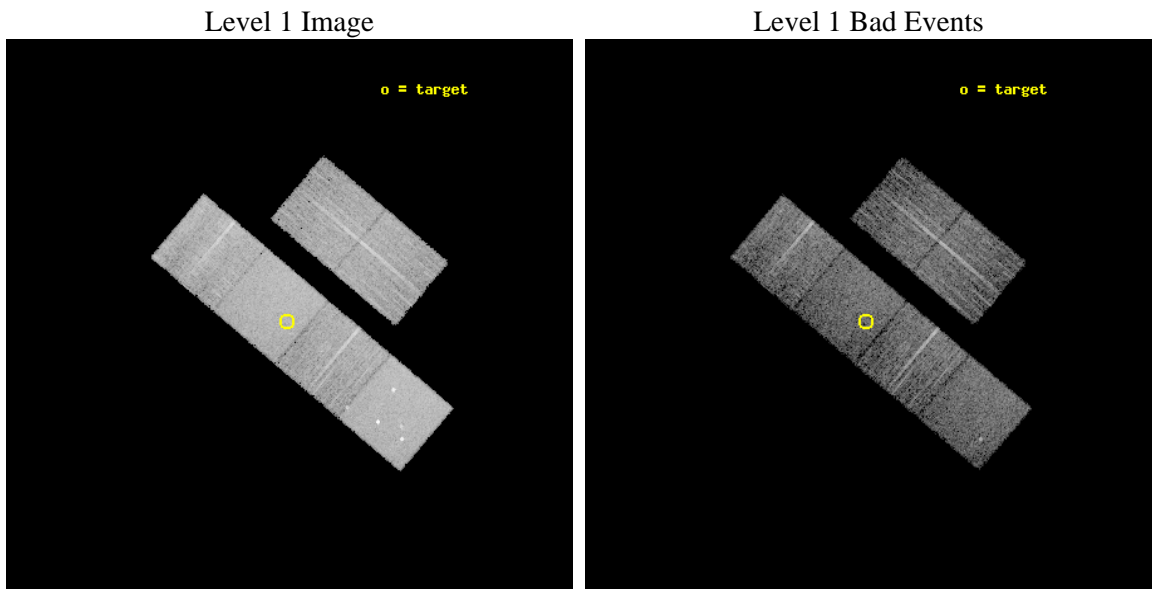
seq_num	900613	Sequence number
obs_id	8072	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.342917	Observer's specified target RA [deg]
dec_targ	13.992528	Observer's specified target Dec [deg]
ra_nom	182.33859825388	Nominal RA [deg]
dec_nom	13.99108168851	Nominal Dec [deg]
roll_nom	220.27398028391	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5353.1477473378	Sum of GTIs [s]
livetime	5285.3629672824	Livetime [s]
ontime2	5353.1887873411	Sum of GTIs [s]
ontime3	5353.0246273279	Sum of GTIs [s]
ontime5	5353.1067073345	Sum of GTIs [s]
ontime6	5353.0656673312	Sum of GTIs [s]
ontime7	5353.1477473378	Sum of GTIs [s]
ontime8	5352.9835873246	Sum of GTIs [s]
l2events	83194	Number of level 2 events



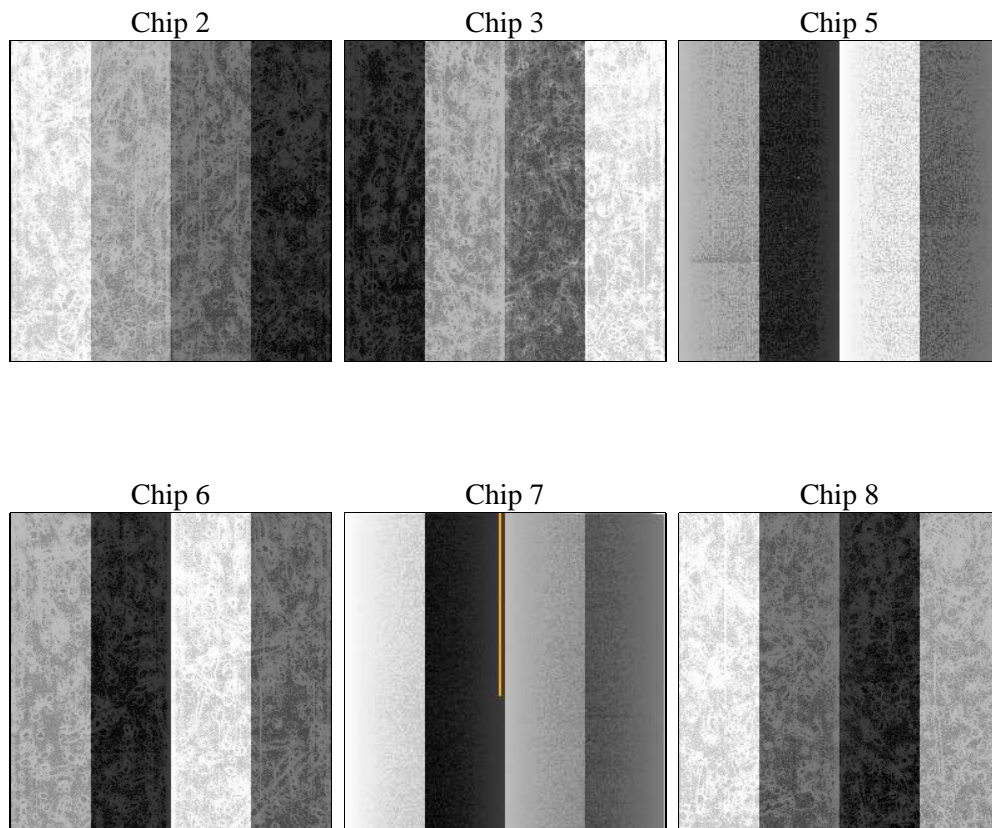
2 OBI

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	5353.1477473378	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5353.1887873411	Sum of GTIs [s]
date	2012-04-23T08:55:20	Date and time of file creation	ontime3	5353.0246273279	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5353.1067073345	Sum of GTIs [s]
			ontime6	5353.0656673312	Sum of GTIs [s]
			ontime7	5353.1477473378	Sum of GTIs [s]
			ontime8	5352.9835873246	Sum of GTIs [s]
			l1events	367072	Number of level 1 events

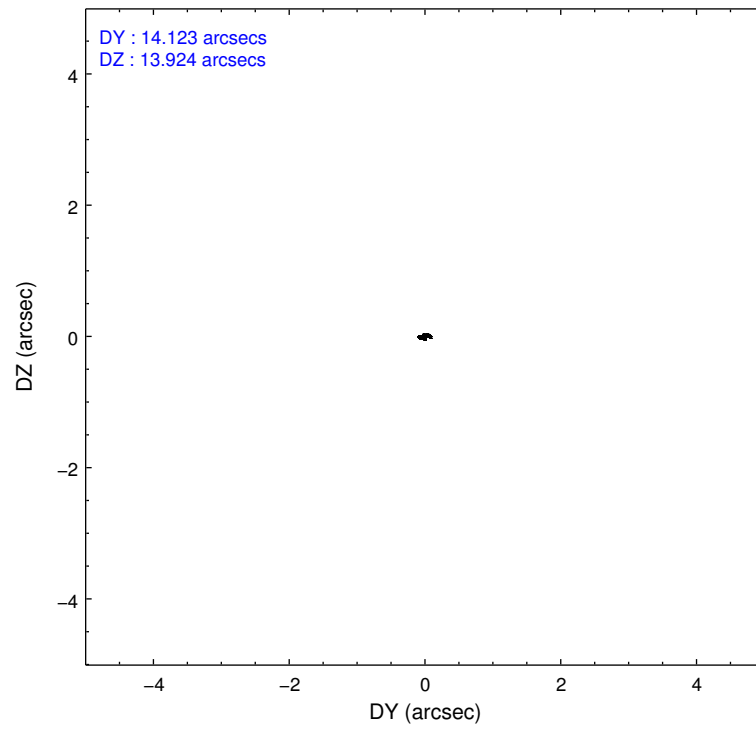
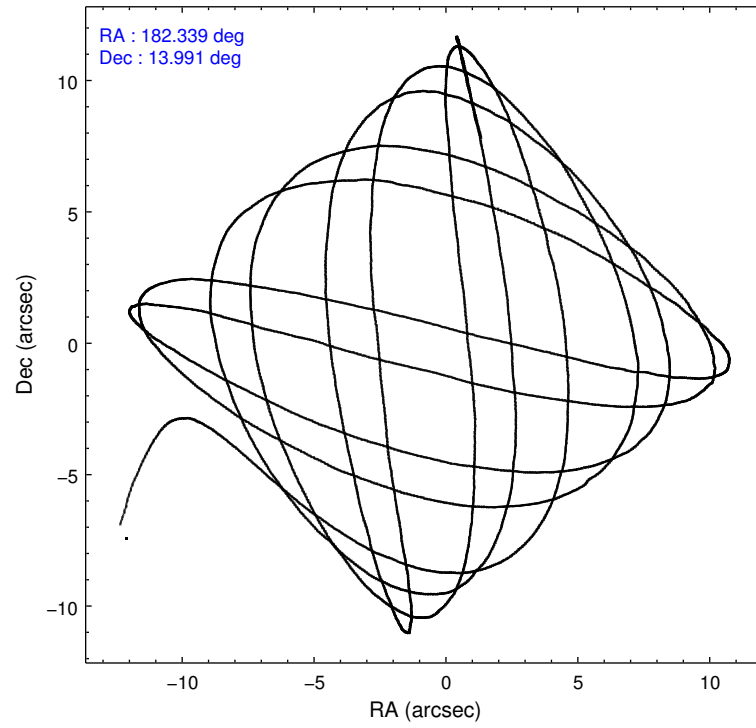
2.1.4 Events

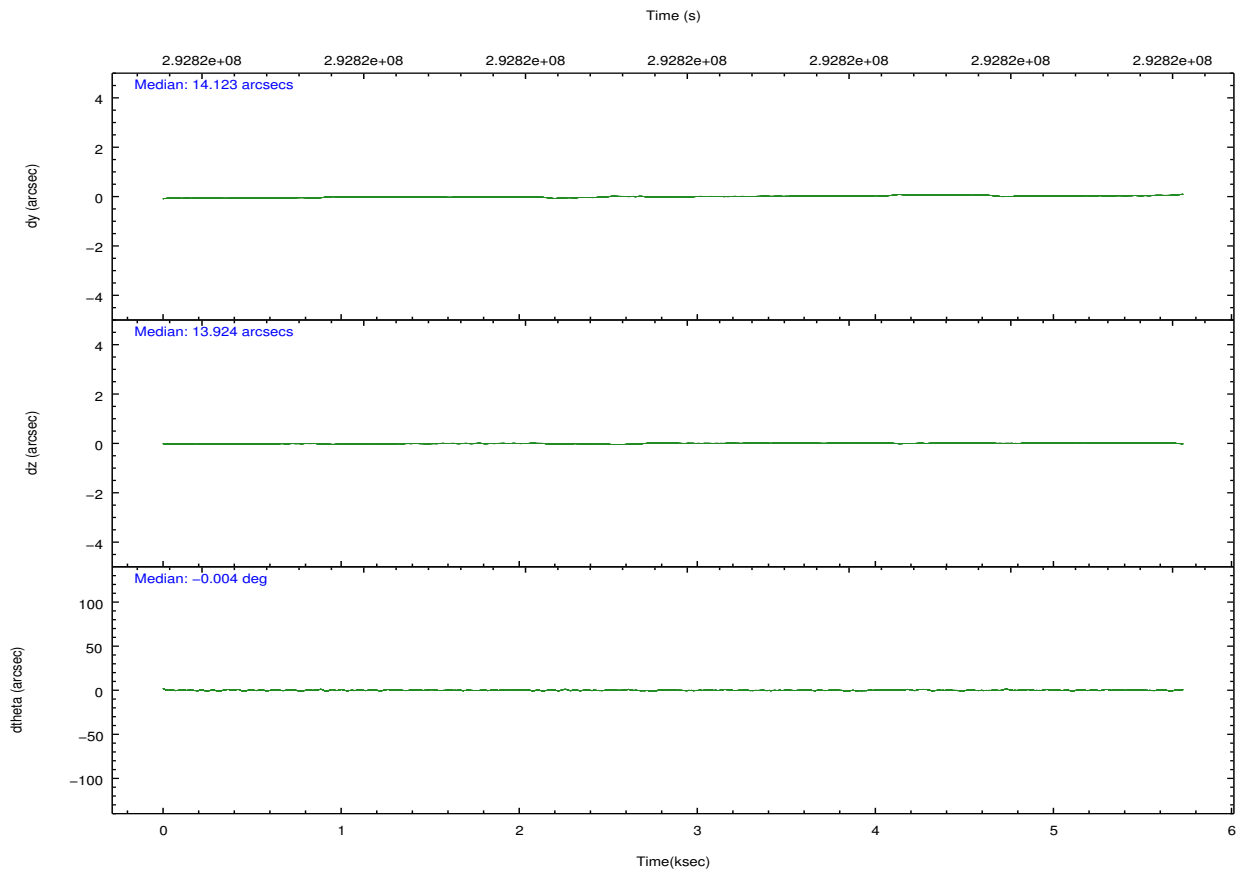
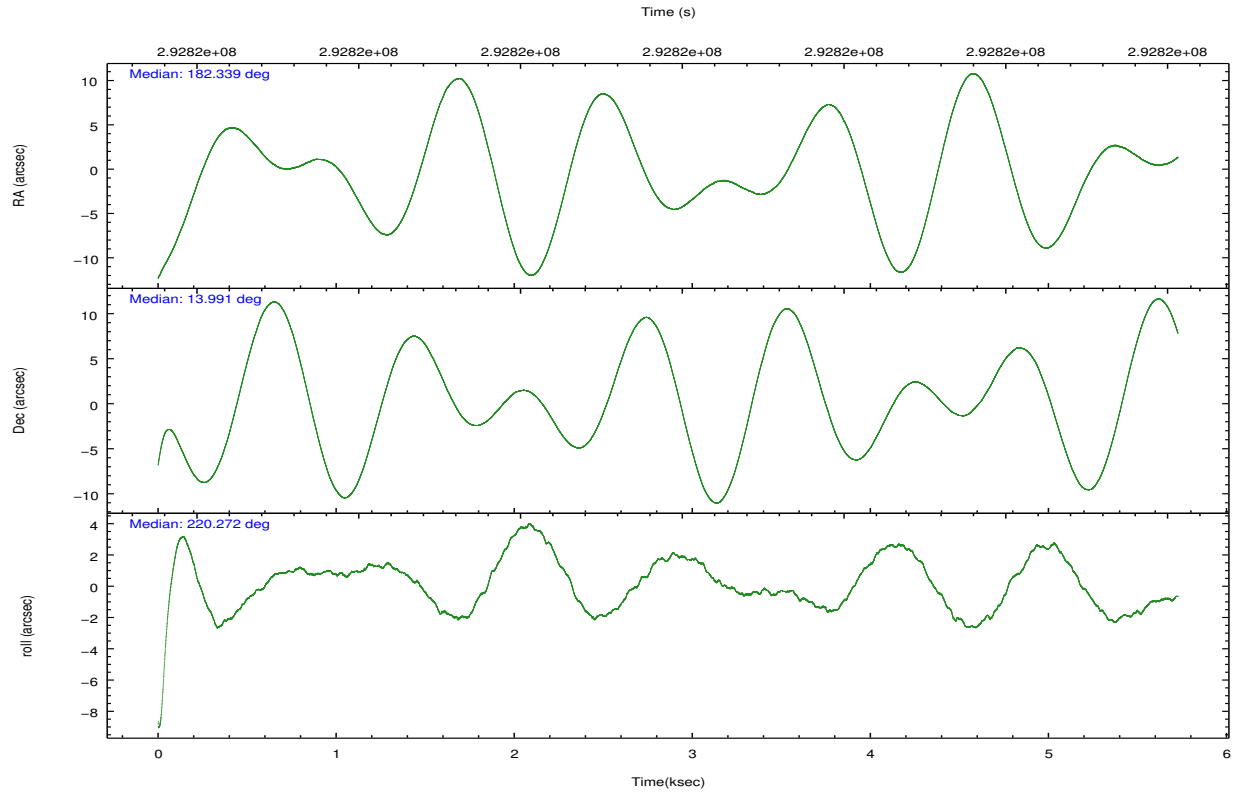
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52677	49665	78989	51216	70193	64332	grade 0 events	2395	2548	4986	2330	2543	4393
rejected events	46709	43687	41766	45017	41136	50473		4%	5%	6%	4%	3%	6%
rejected %	88%	87%	52%	87%	58%	78%	grade 1 events	34	28	100	22	67	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	1322	1138	10971	1434	5897	3082
								2%	2%	13%	2%	8%	4%
							grade 3 events	576	578	1218	562	2515	1409
								1%	1%	1%	1%	3%	2%
							grade 4 events	574	596	1178	611	2514	1302
								1%	1%	1%	1%	3%	2%
							grade 5 events	2054	2269	5399	2406	6611	3086
								3%	4%	6%	4%	9%	4%
							grade 6 events	1104	1119	18886	1266	15607	3682
								2%	2%	23%	2%	22%	5%
							grade 7 events	44618	41389	36251	42585	34439	47337
								84%	83%	45%	83%	49%	73%

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	182.347753	182.3385982538777	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.016967	13.99108168850981	Alternating exposures requested	N	N
[deg] Pointing Roll	220.115164	220.2739802839065	[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)	292818376.184000	292817343.01165			
Observation start date	2007-04-13T02:25:11	2007-04-13T02:09:03			
[s] Observation end time (MET)	292823776.184000	292824116.72447			
Observation end date	2007-04-13T03:55:11	2007-04-13T04:01:56			
Read mode	TIMED	TIMED			

2.3 Aspect



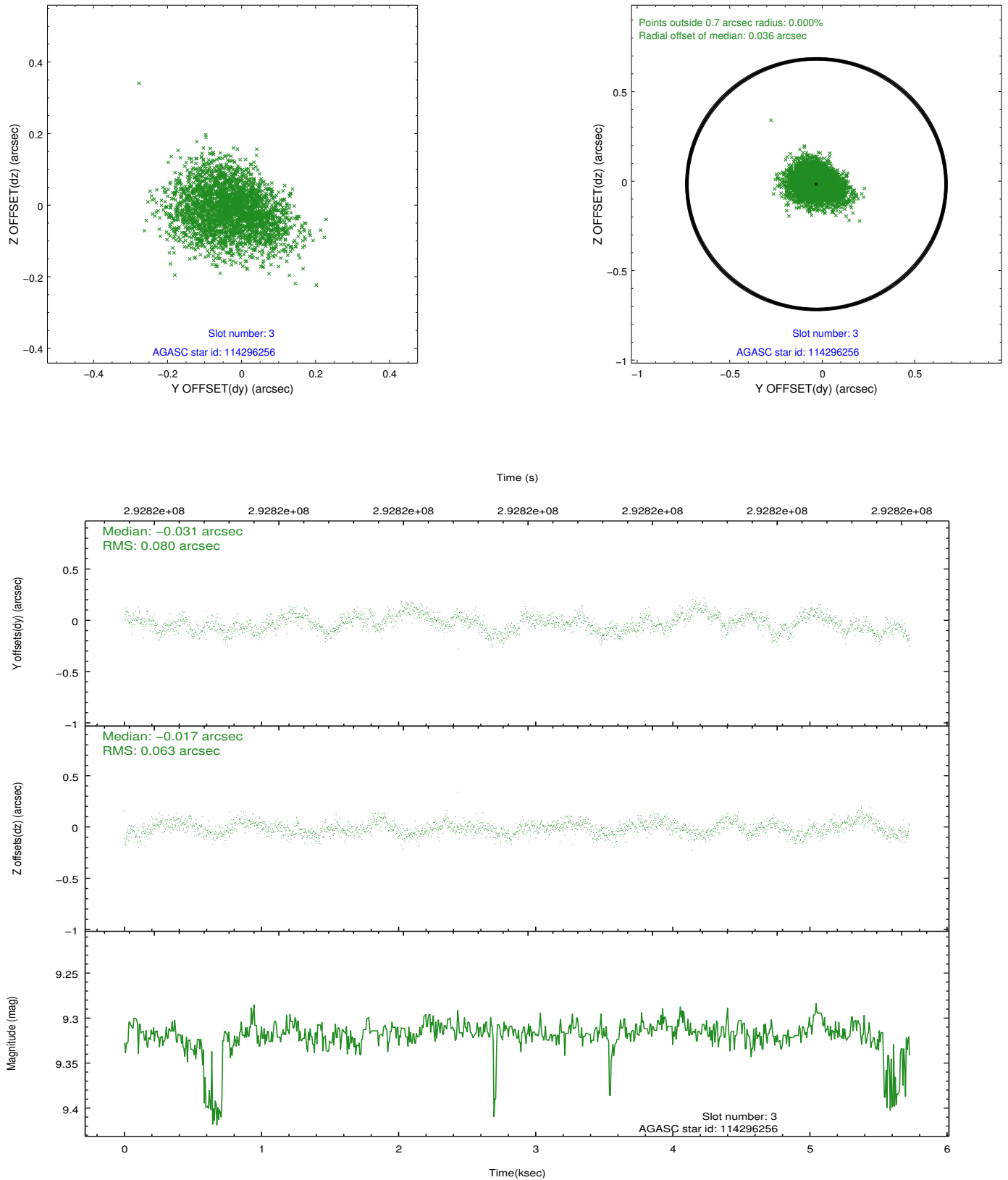


Slot Statistics

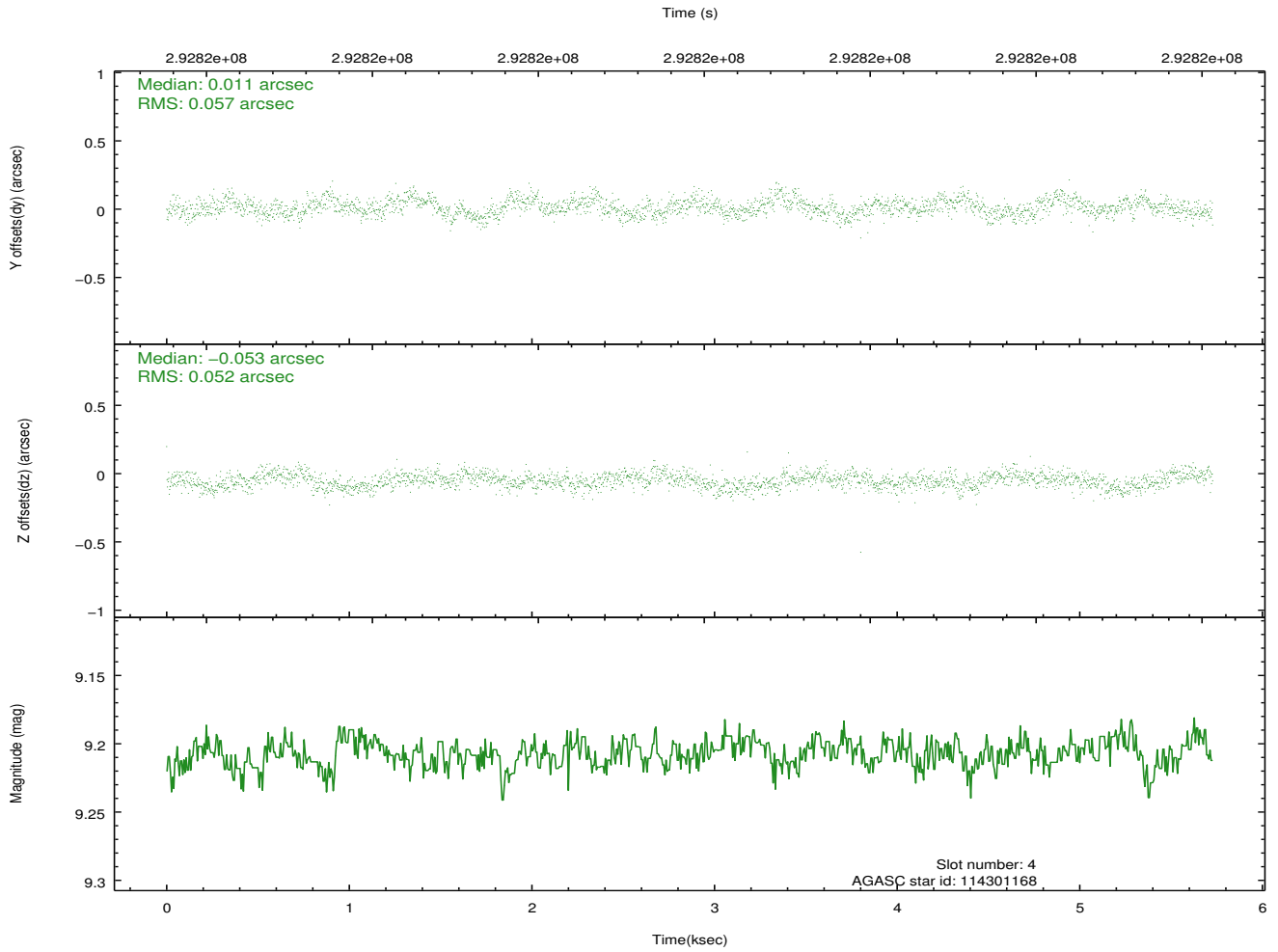
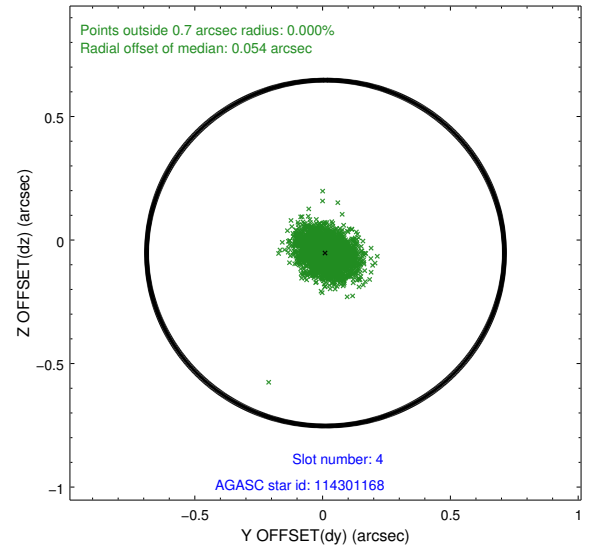
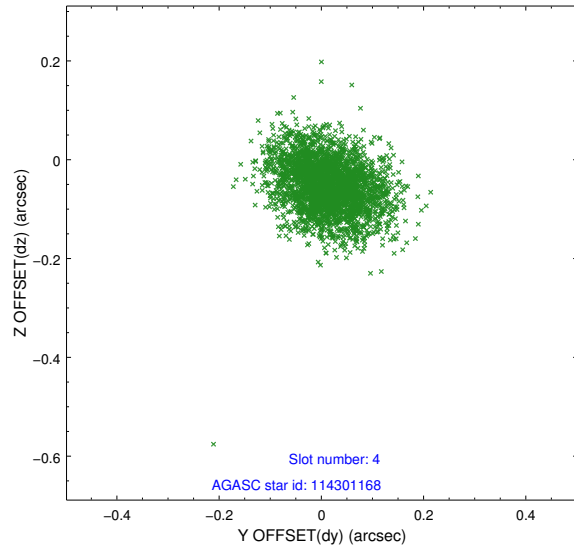
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1397	-0.065	-0.063	0.007	0.012	0.000000	0.000000	-767.14	-1735.28
1	FID	ACIS-S-4	7.19	1397	0.210	0.048	0.006	0.011	0.000000	0.000000	2145.94	172.22
2	FID	ACIS-S-5	7.22	1397	-0.175	0.023	0.006	0.011	0.000000	0.000000	-1818.75	167.07
3	GUIDE	114296256	9.32	2786	-0.031	-0.017	0.110	0.170	182.985406	14.017213	-1705.76	1432.25
4	GUIDE	114301168	9.21	2793	0.011	-0.053	0.081	0.131	182.996668	14.071189	-1861.25	1308.96
5	GUIDE	114302168	7.94	2795	0.026	-0.047	0.071	0.111	182.308899	14.829820	-1782.17	-2324.38
6	GUIDE	114302592	8.06	2792	-0.054	0.128	0.059	0.093	182.751254	14.424375	-2022.22	-216.67
7	GUIDE	114299688	7.57	2793	0.047	-0.009	0.054	0.095	181.899671	13.516936	2357.78	365.16

2.4 Star Slots

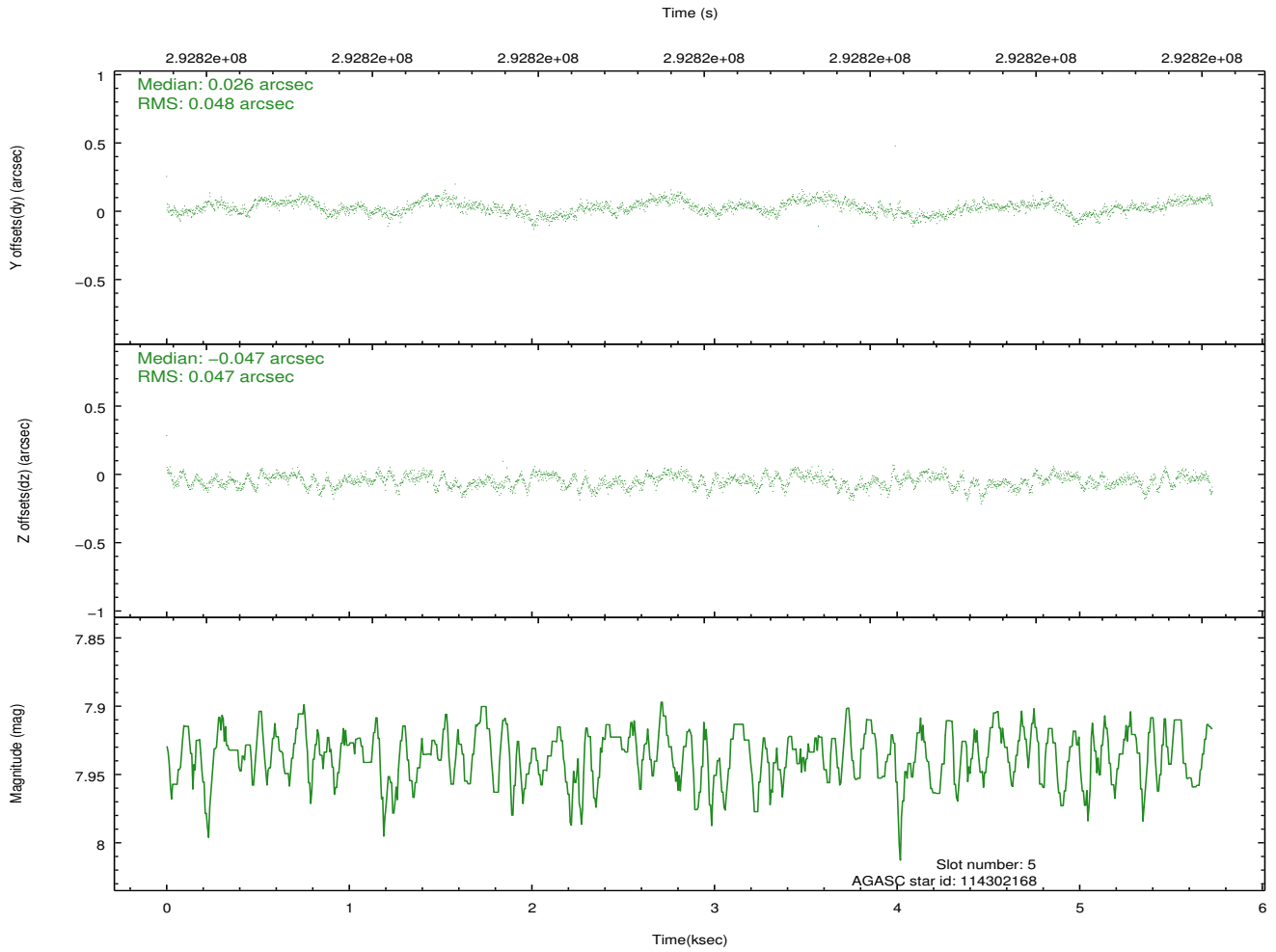
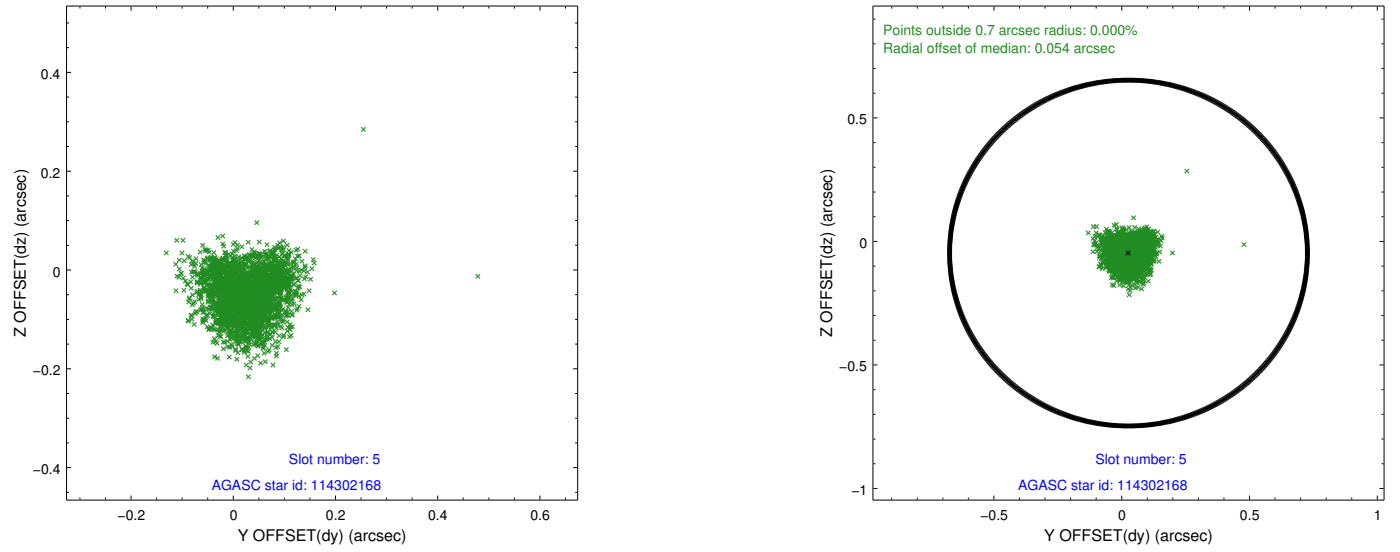
2.4.1 Slot 3



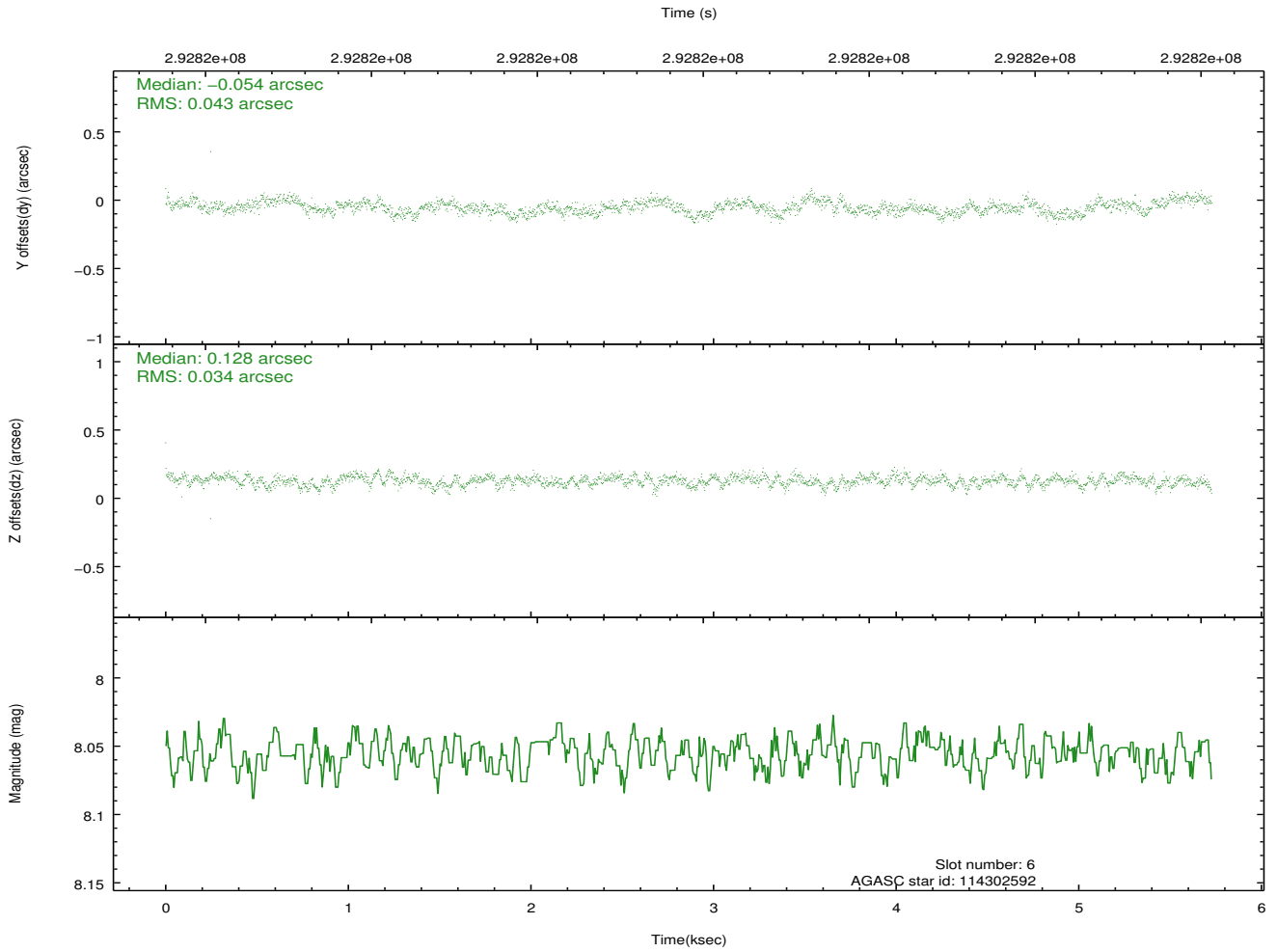
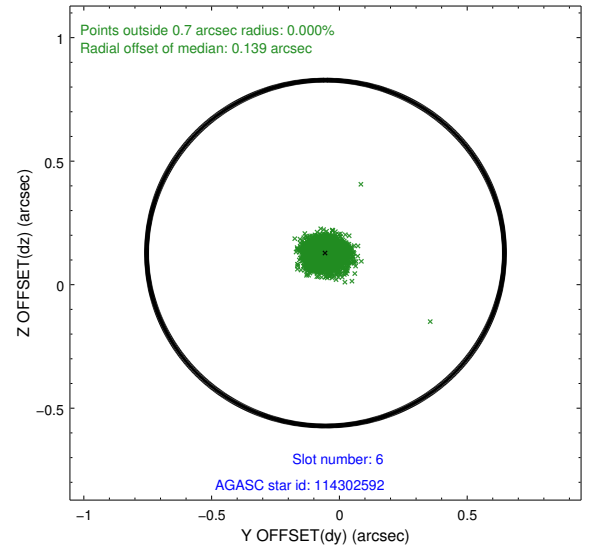
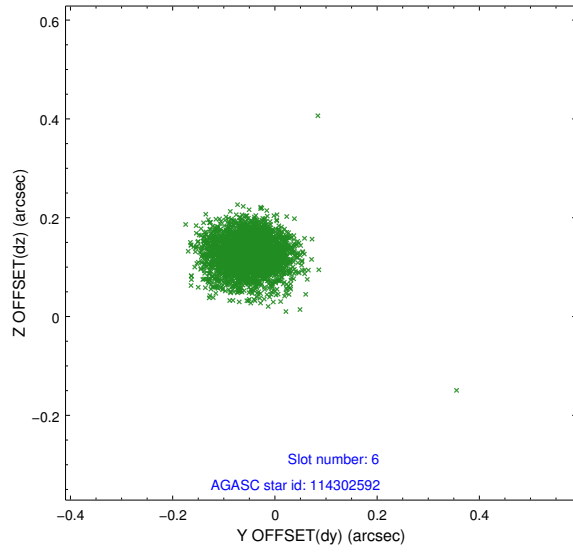
2.4.2 Slot 4



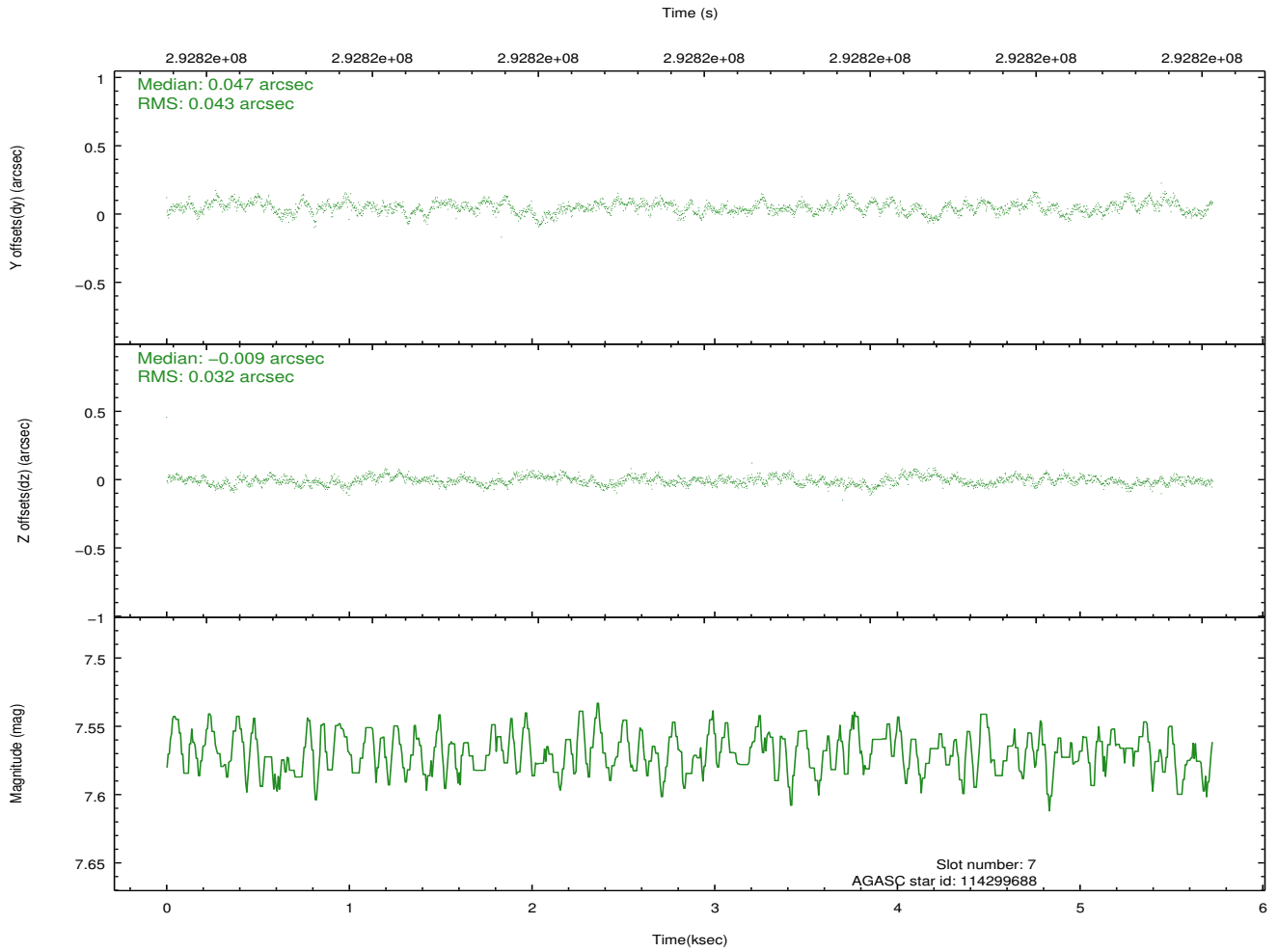
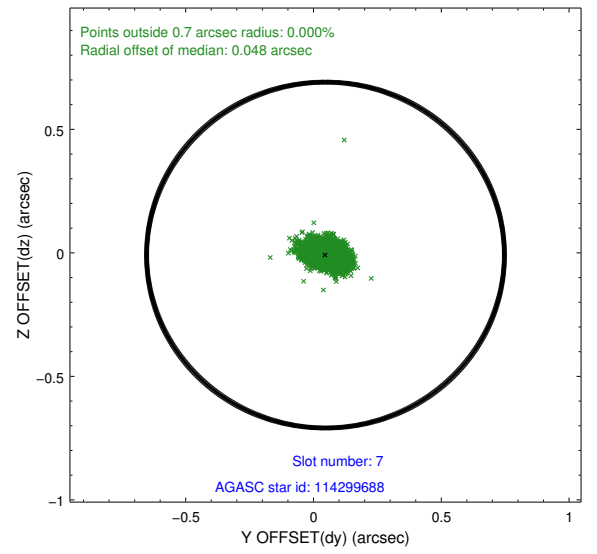
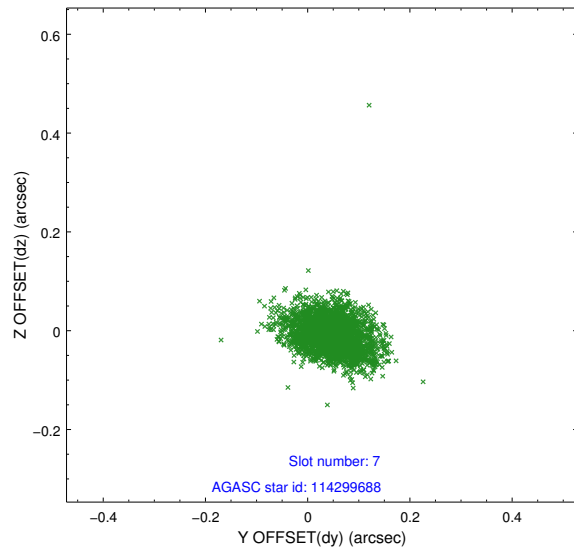
2.4.3 Slot 5



2.4.4 Slot 6

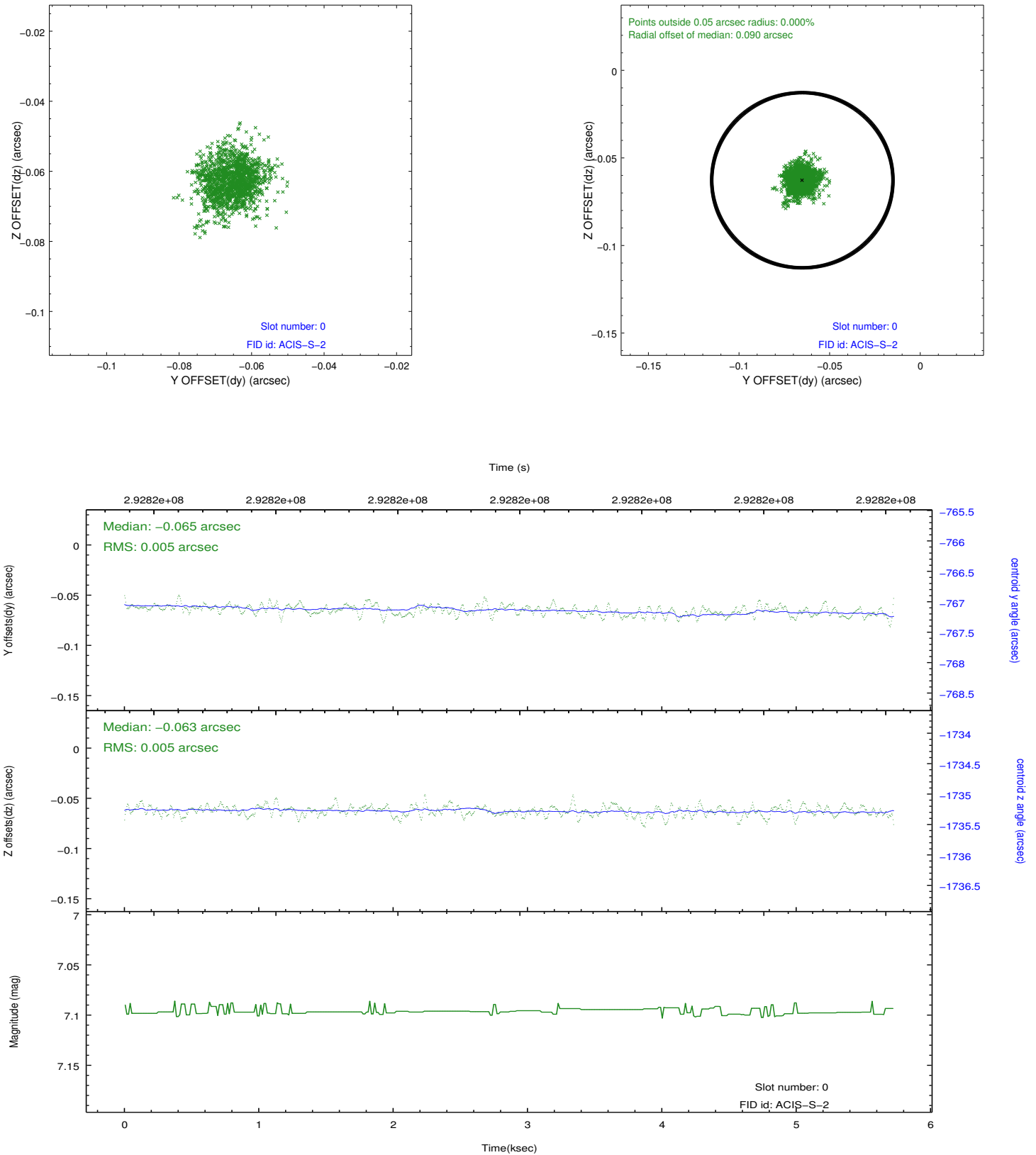


2.4.5 Slot 7

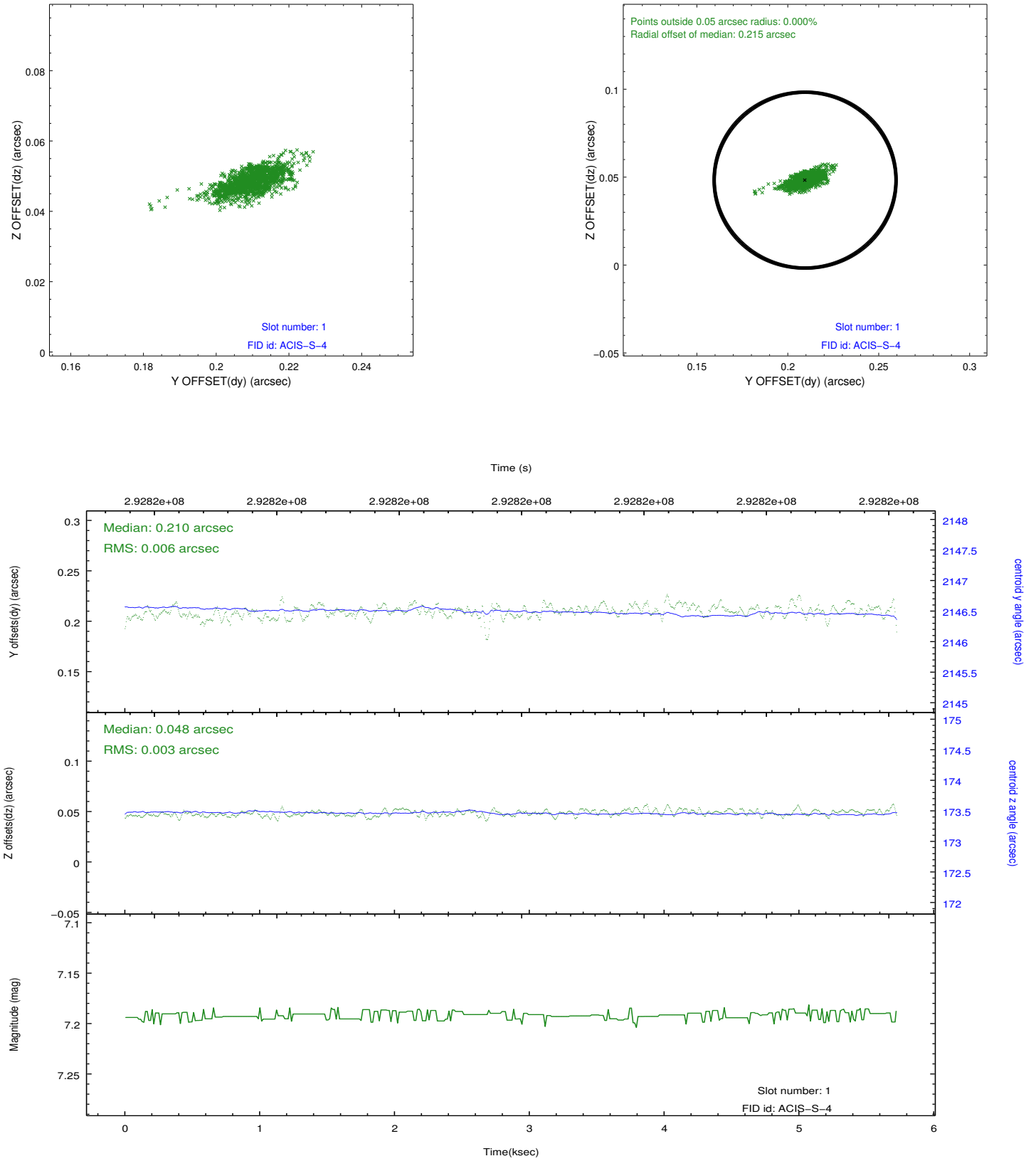


2.5 FID Slots

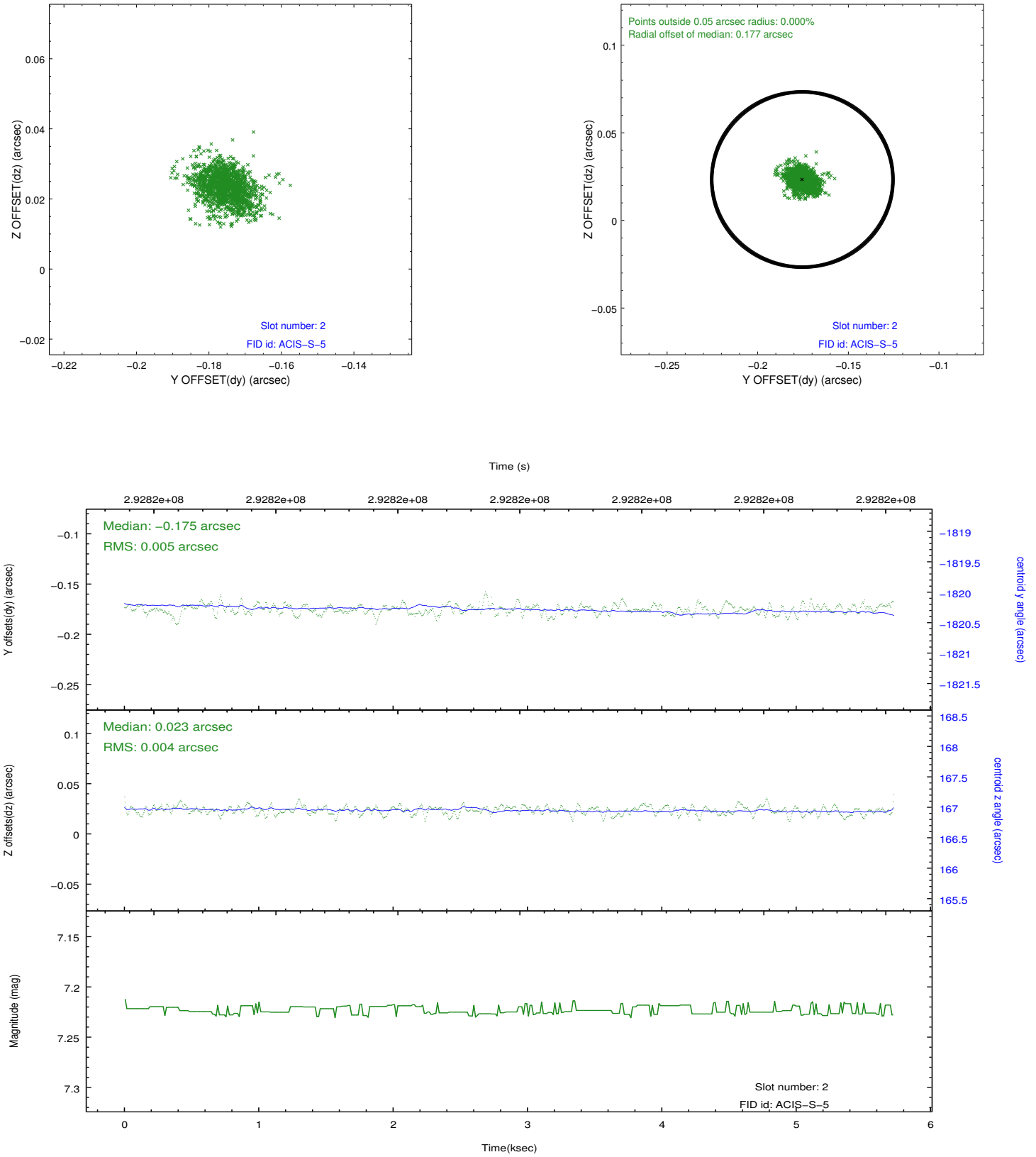
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.35359998

A.2 Comments

Joint proposal with Spitzer.