

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7860 - L2 Version 3
Chandra X-Ray Center

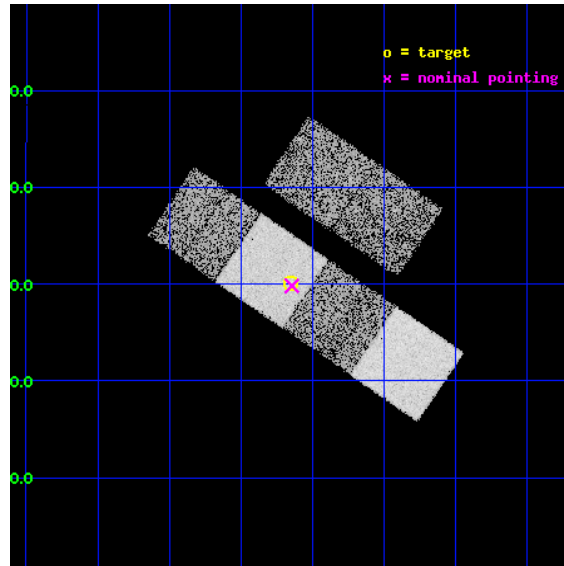
L2 Processing Date : Apr 23 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

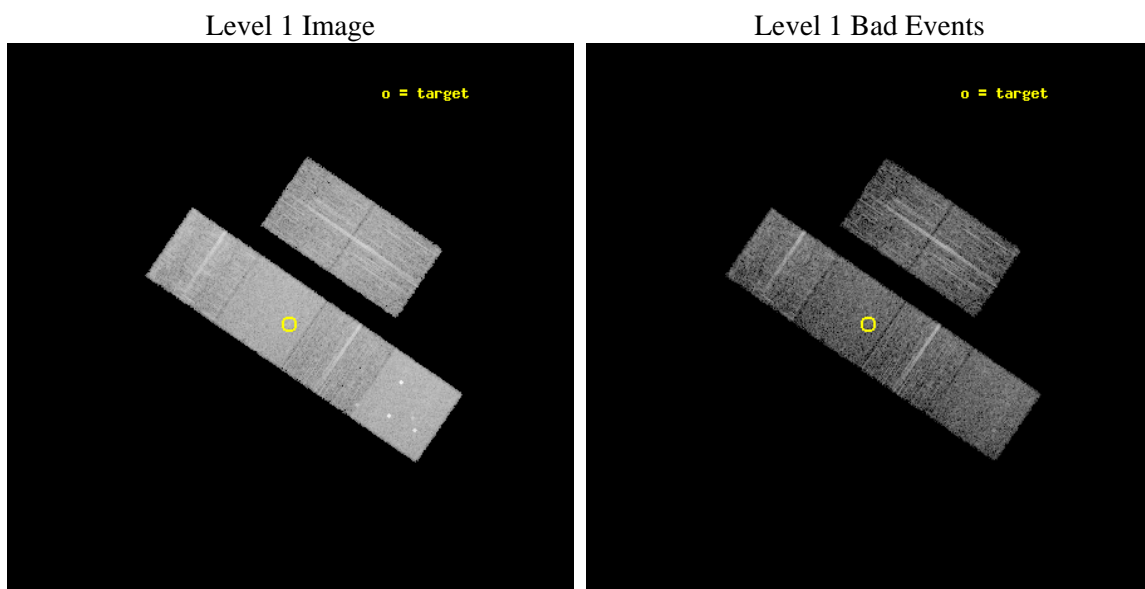
seq_num	701524	Sequence number
obs_id	7860	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 4900	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.162917	Observer's specified target RA [deg]
dec_targ	2.501472	Observer's specified target Dec [deg]
ra_nom	195.16097611922	Nominal RA [deg]
dec_nom	2.4970510592347	Nominal Dec [deg]
roll_nom	214.26228799063	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5132.7999809384	Sum of GTIs [s]
livetime	5067.8053769787	Livetime [s]
ontime2	5132.7999809384	Sum of GTIs [s]
ontime3	5132.7999809384	Sum of GTIs [s]
ontime5	5132.7999809384	Sum of GTIs [s]
ontime6	5132.7999809384	Sum of GTIs [s]
ontime7	5132.7999809384	Sum of GTIs [s]
ontime8	5132.7999809384	Sum of GTIs [s]
l2events	80765	Number of level 2 events



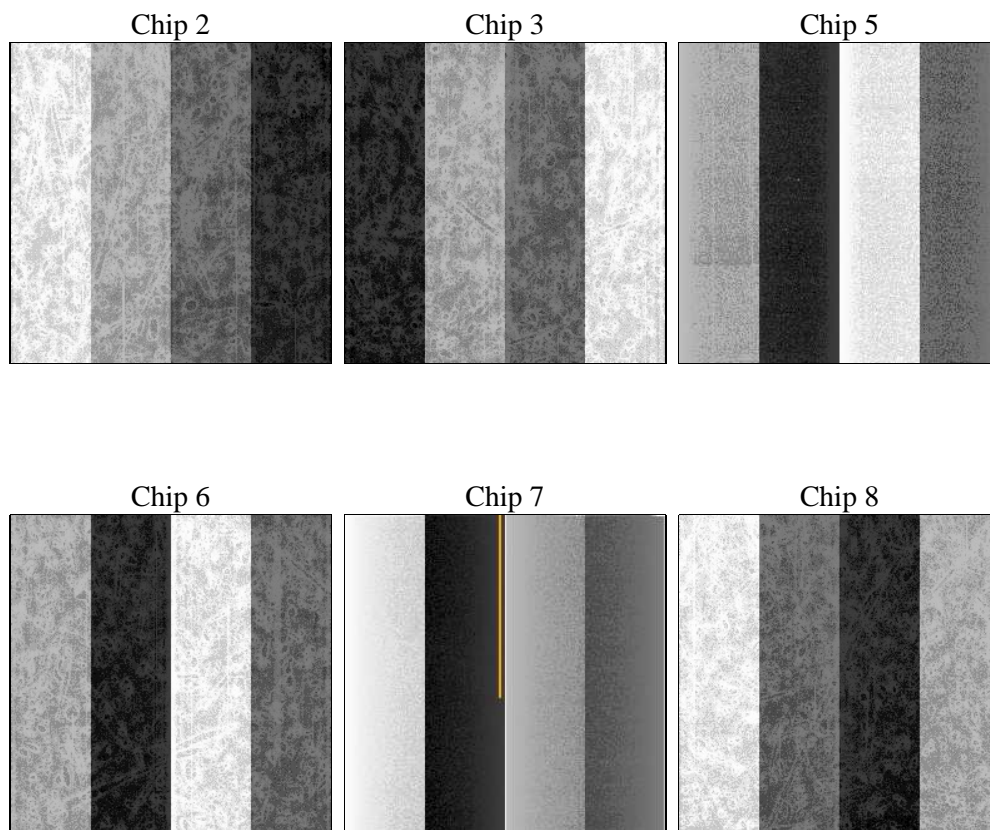
2 OBI

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	5132.7999809384	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5132.7999809384	Sum of GTIs [s]
date	2012-04-23T09:13:24	Date and time of file creation	ontime3	5132.7999809384	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5132.7999809384	Sum of GTIs [s]
			ontime6	5132.7999809384	Sum of GTIs [s]
			ontime7	5132.7999809384	Sum of GTIs [s]
			ontime8	5132.7999809384	Sum of GTIs [s]
			l1events	367870	Number of level 1 events

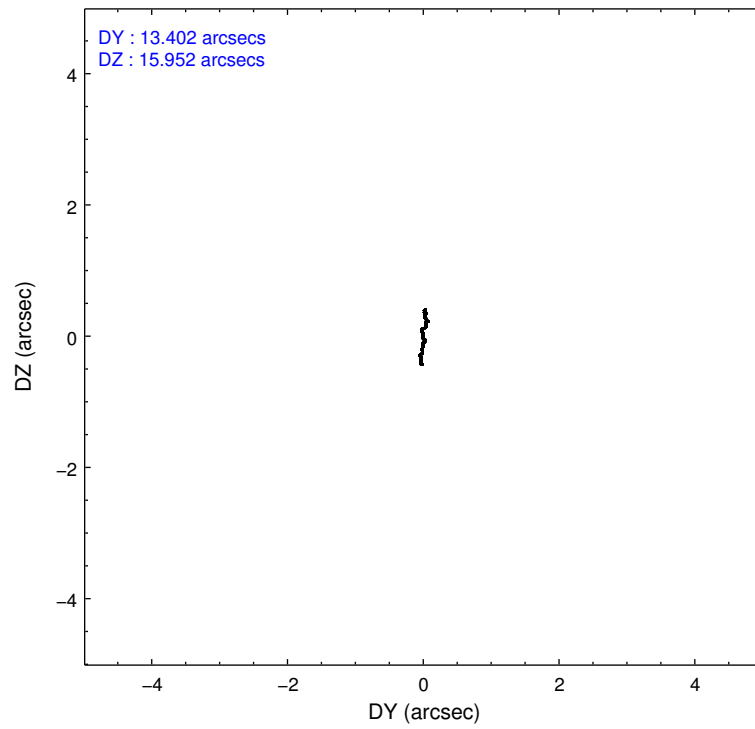
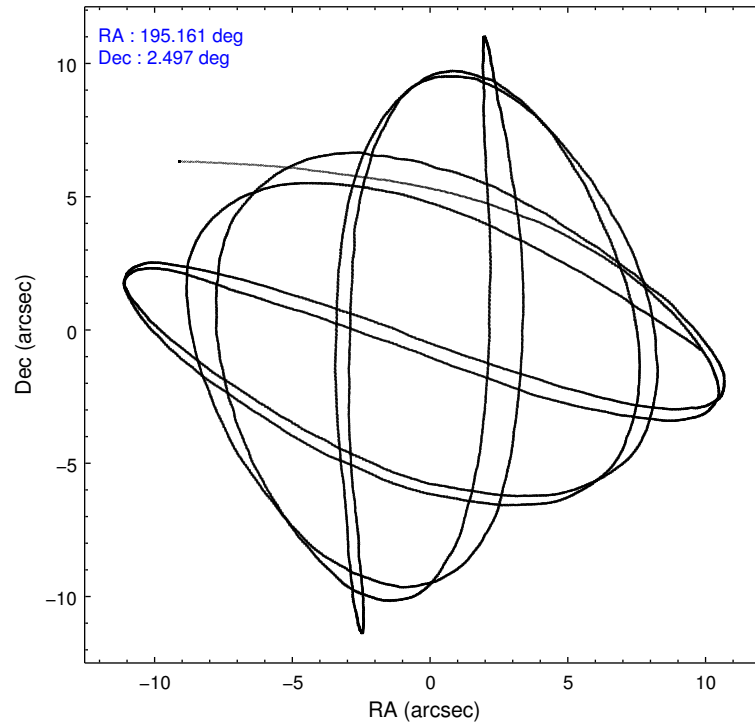
2.1.4 Events

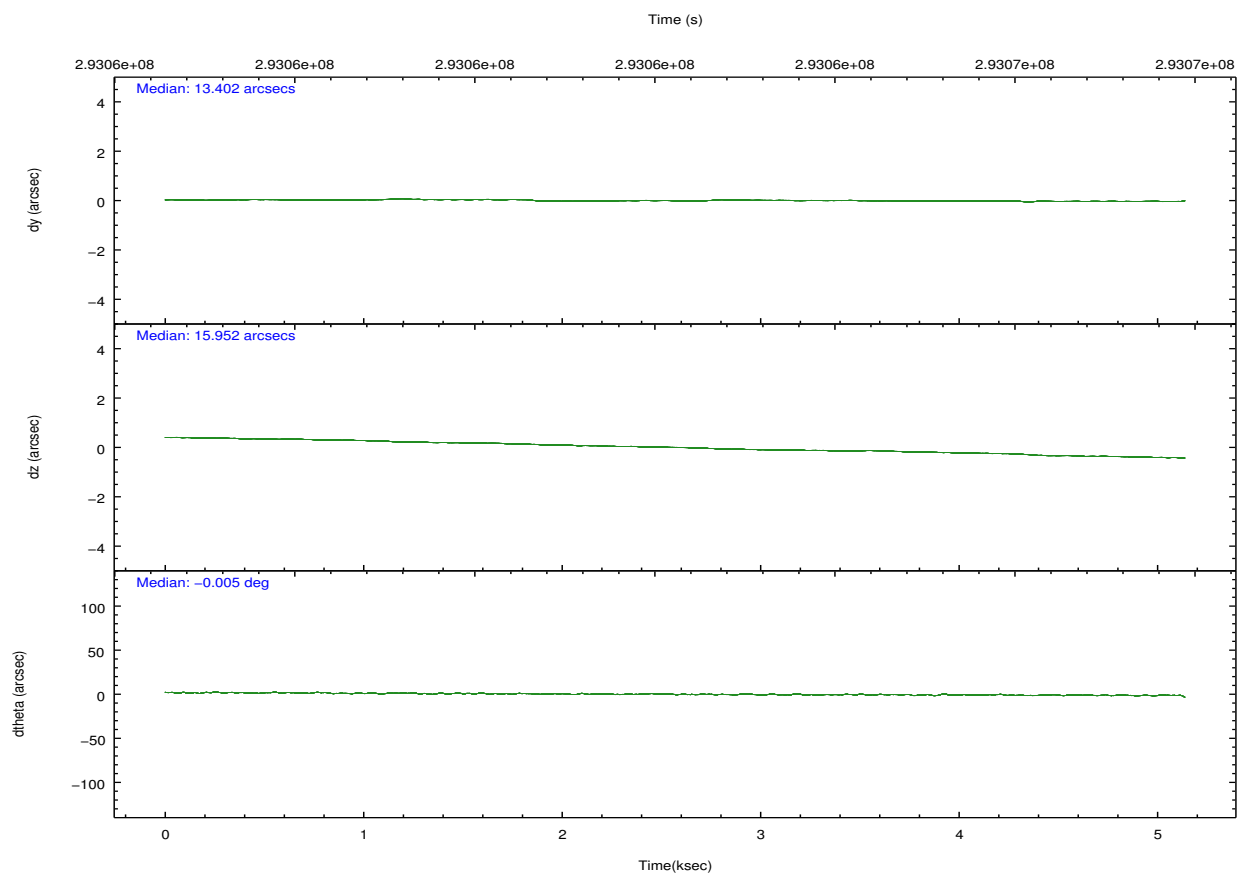
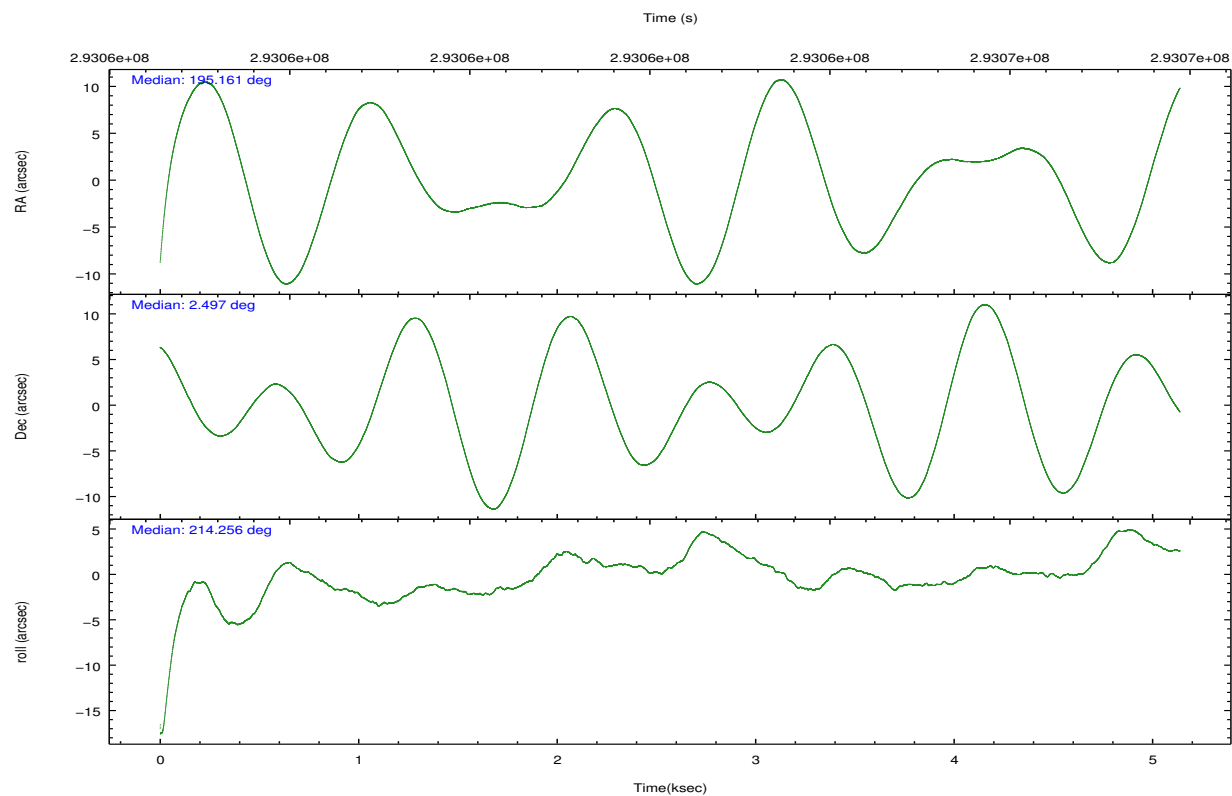
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51979	48737	79599	51868	69335	66352	grade 0 events	2598	2644	4874	2550	2578	4686
rejected events	46262	42976	43313	45800	41075	51842		4%	5%	6%	4%	3%	7%
rejected %	89%	88%	54%	88%	59%	78%	grade 1 events	49	38	131	27	61	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1239	1148	11261	1356	5938	3242
								2%	2%	14%	2%	8%	4%
							grade 3 events	484	560	1333	620	2531	1745
								0%	1%	1%	1%	3%	2%
							grade 4 events	575	553	1267	558	2510	1615
								1%	1%	1%	1%	3%	2%
							grade 5 events	2030	2227	5555	2339	6526	3236
								3%	4%	6%	4%	9%	4%
							grade 6 events	1022	1047	18972	1233	15751	3812
								1%	2%	23%	2%	22%	5%
							grade 7 events	43982	40520	36206	43185	33440	47959
								84%	83%	45%	83%	48%	72%

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	195.172479	195.1609761192217	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.521836	2.497051059234726	Alternating exposures requested	N	N
[deg] Pointing Roll	214.105177	214.2622879906268	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	293061675.184000	293060382.82323			
Observation start date	2007-04-15T22:00:10	2007-04-15T21:39:42			
[s] Observation end time (MET)	293066675.184000	293067004.32355			
Observation end date	2007-04-15T23:23:30	2007-04-15T23:30:04			
Read mode	TIMED	TIMED			

2.3 Aspect



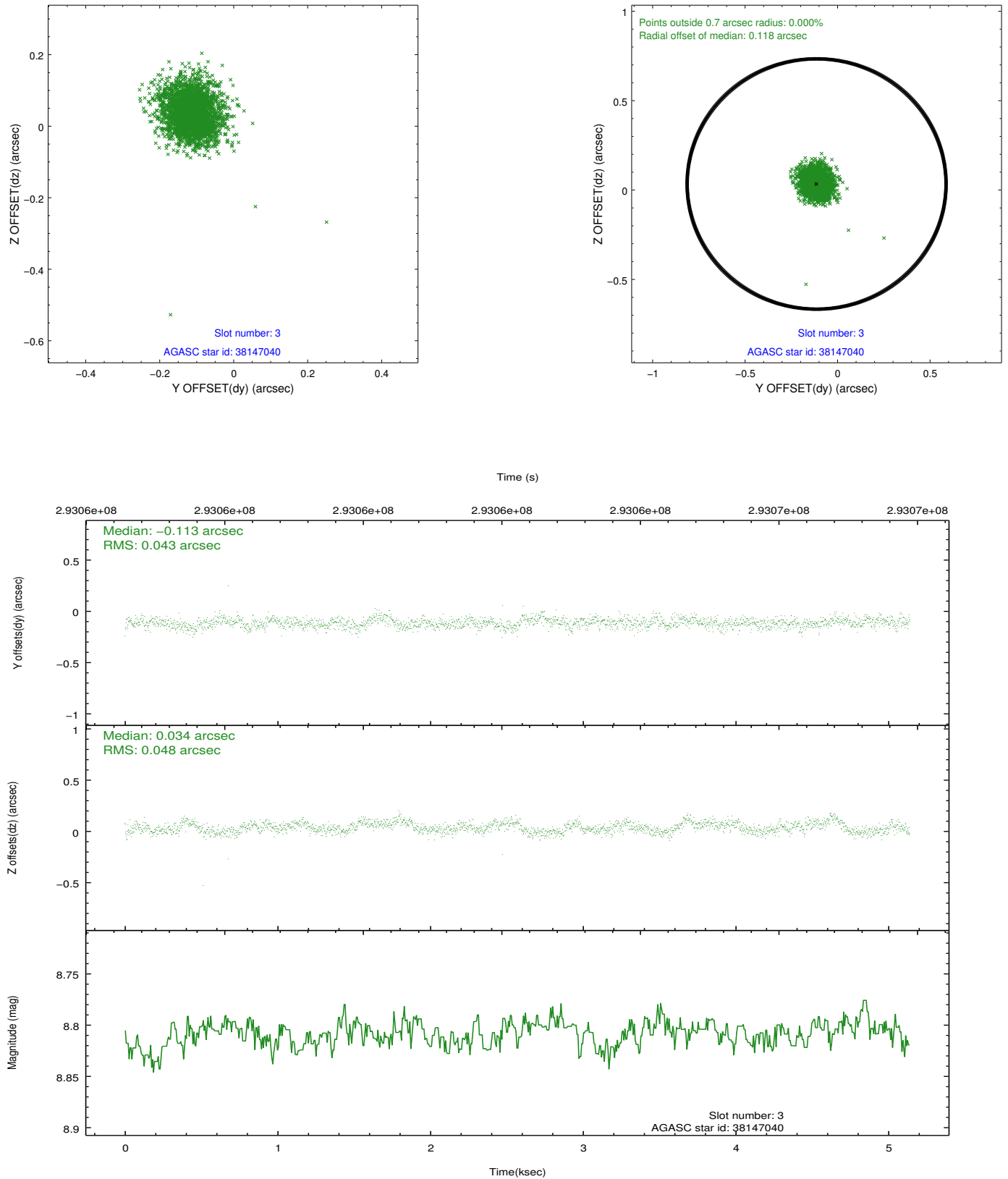


Slot Statistics

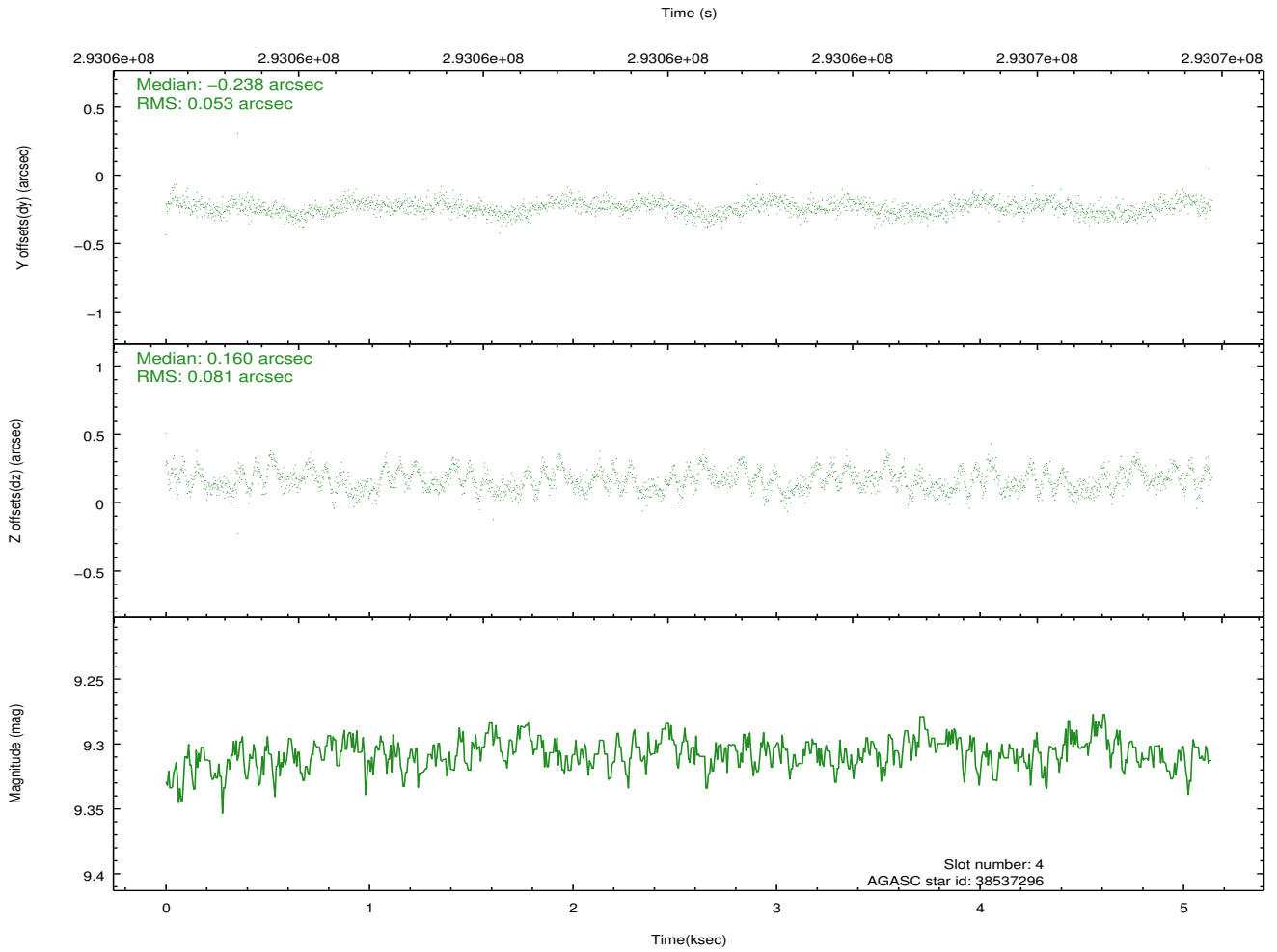
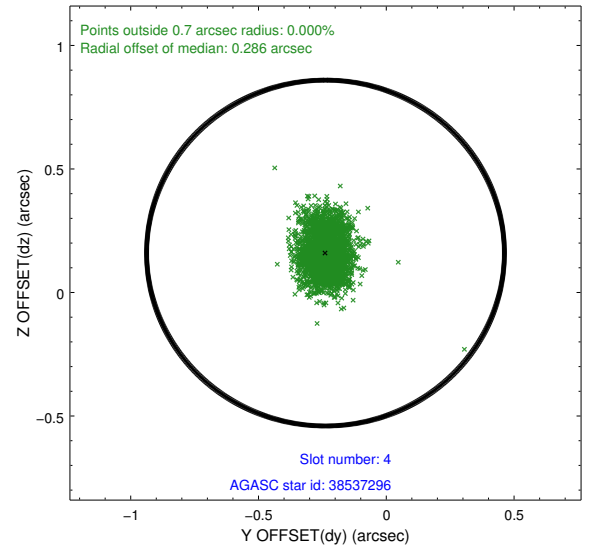
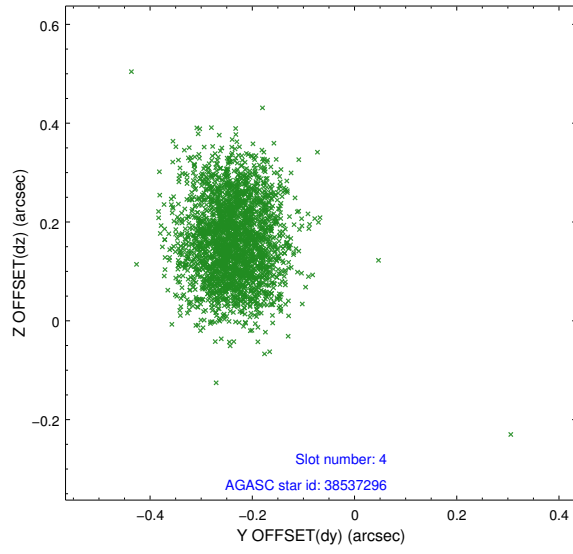
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1254	0.056	-0.089	0.012	0.019	0.000000	0.000000	929.76	-1733.08
1	FID	ACIS-S-4	7.19	1254	0.138	0.039	0.007	0.012	0.000000	0.000000	2147.89	169.99
2	FID	ACIS-S-5	7.22	1254	-0.222	0.062	0.010	0.016	0.000000	0.000000	-1817.89	164.93
3	GUIDE	38147040	8.81	2508	-0.113	0.034	0.066	0.109	194.819144	2.011487	2083.19	808.69
4	GUIDE	38537296	9.31	2506	-0.238	0.160	0.102	0.164	194.985667	3.065112	-539.07	-1995.56
5	GUIDE	39060792	8.94	2506	-0.172	0.016	0.077	0.123	195.036311	2.384051	684.01	135.56
6	GUIDE	39457880	9.39	2479	0.457	-0.057	0.101	0.165	195.384115	2.918602	-1429.46	-756.20
7	GUIDE	39060576	8.89	2504	0.071	-0.163	0.100	0.157	195.700571	2.094582	-710.98	2338.07

2.4 Star Slots

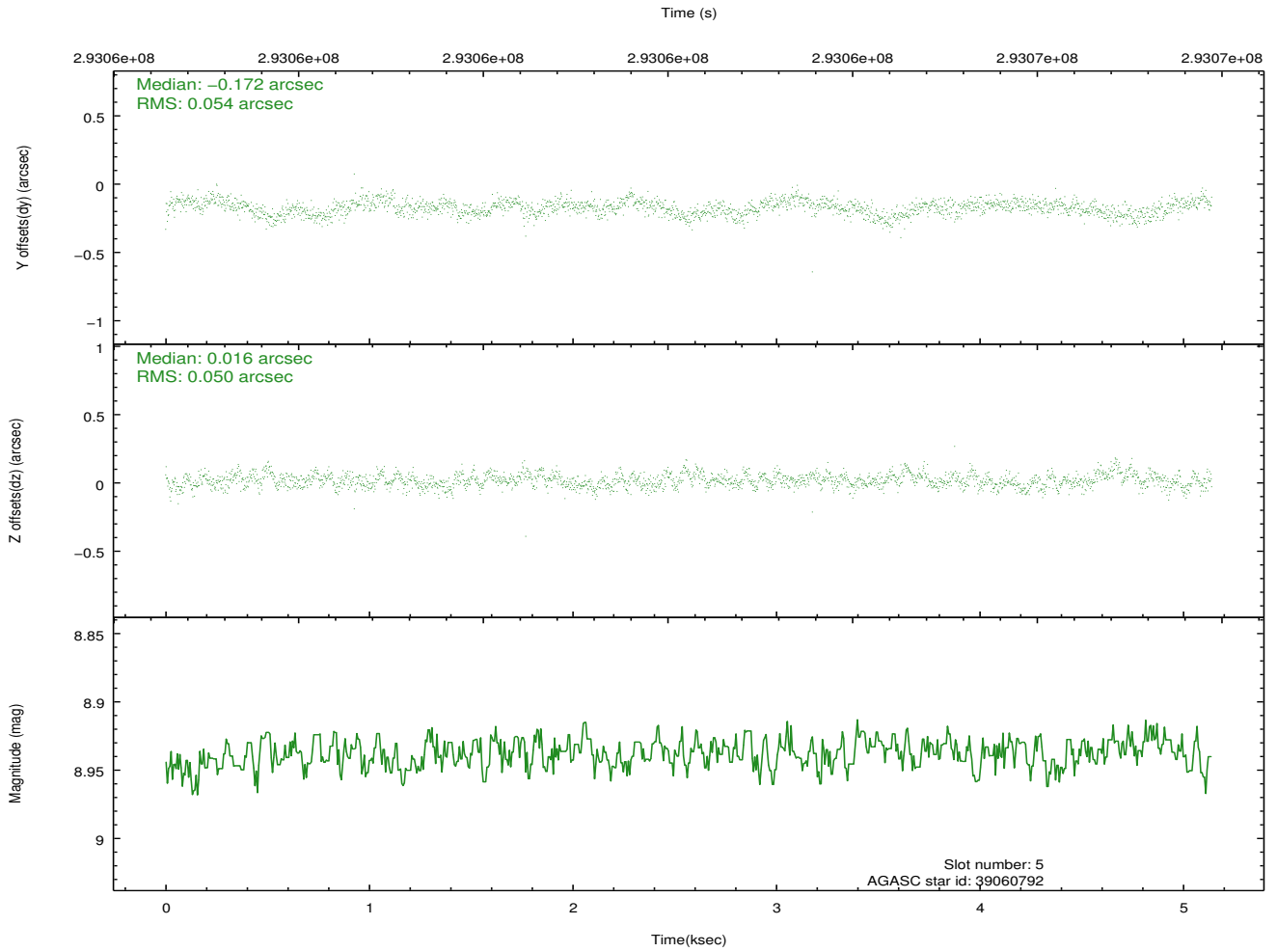
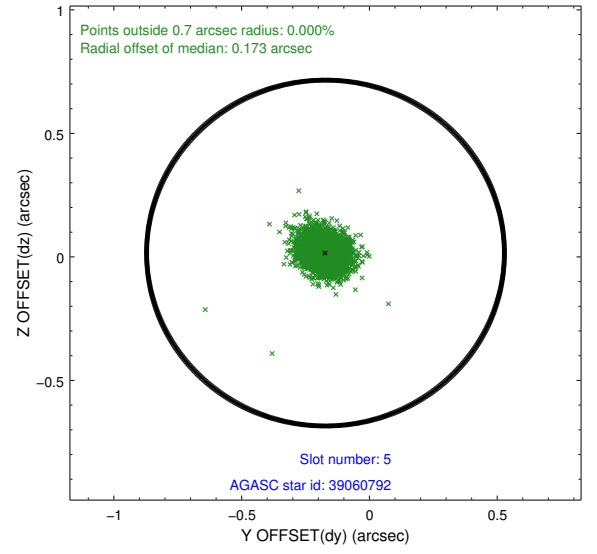
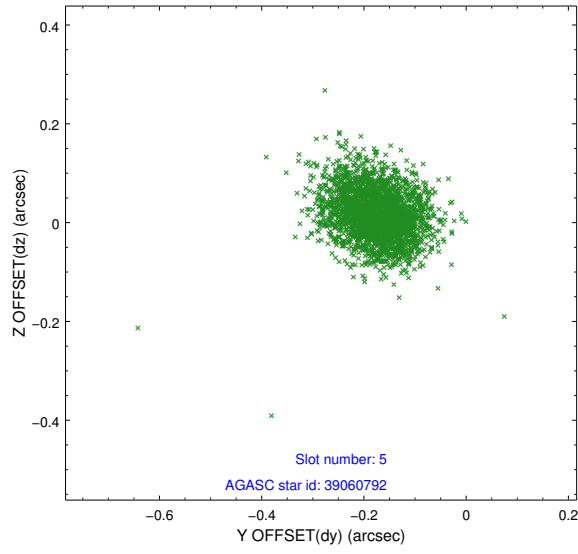
2.4.1 Slot 3



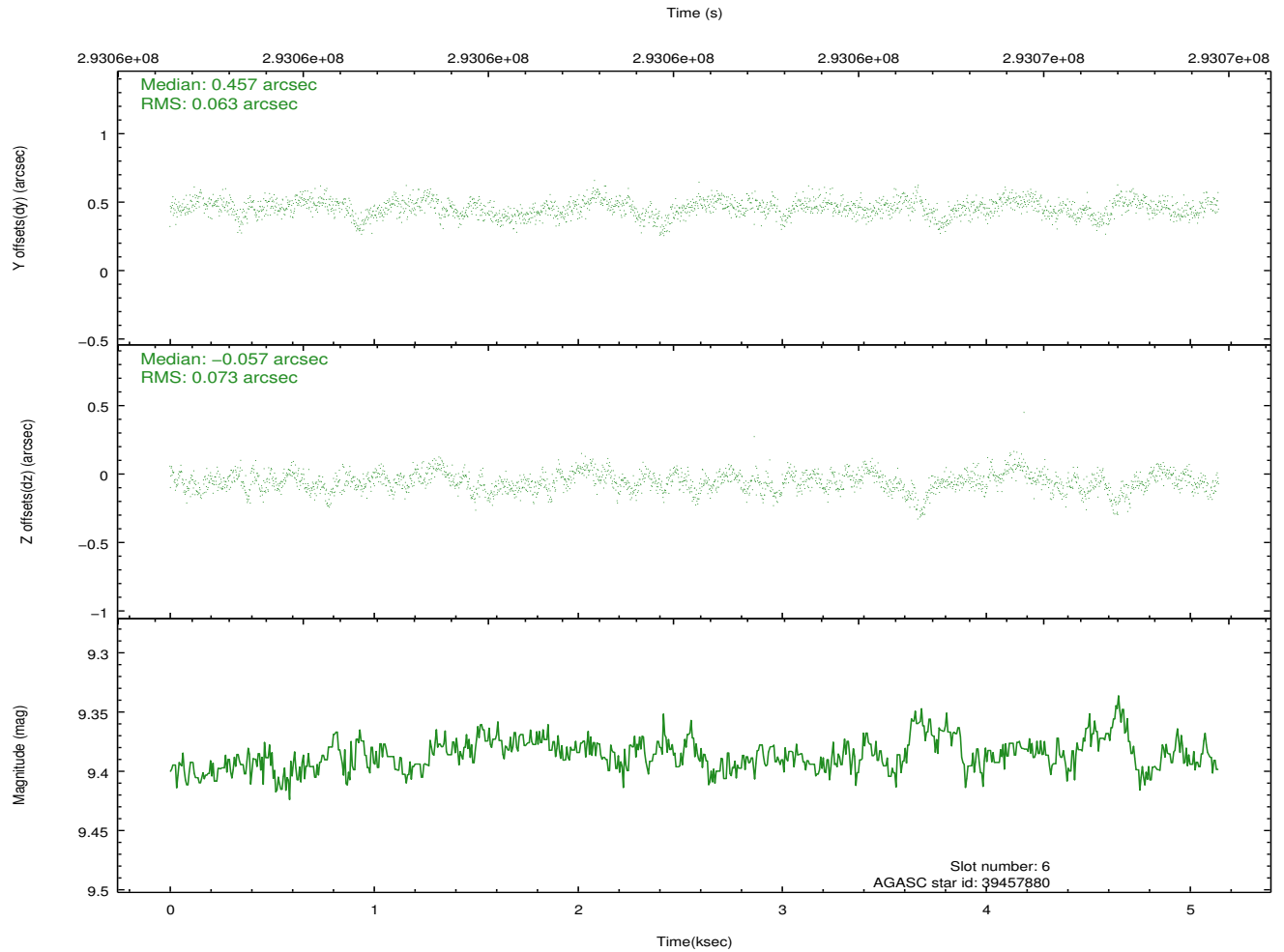
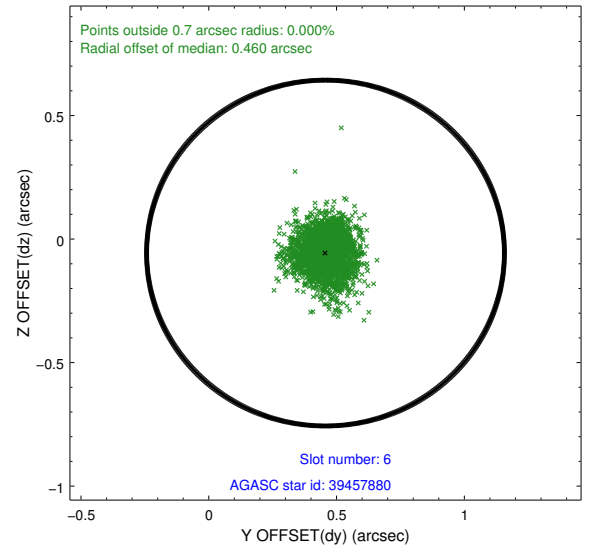
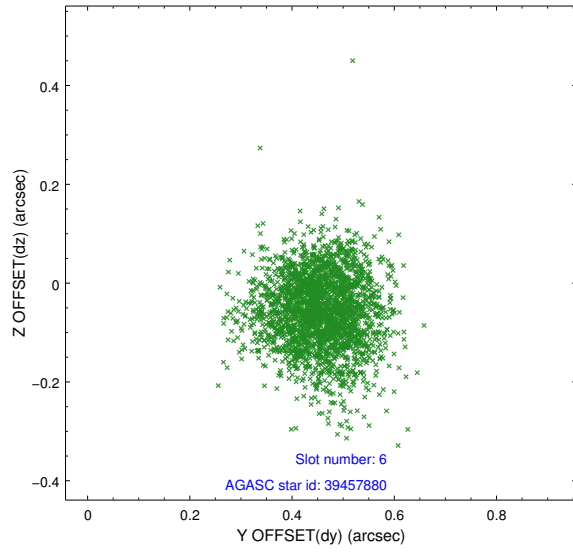
2.4.2 Slot 4



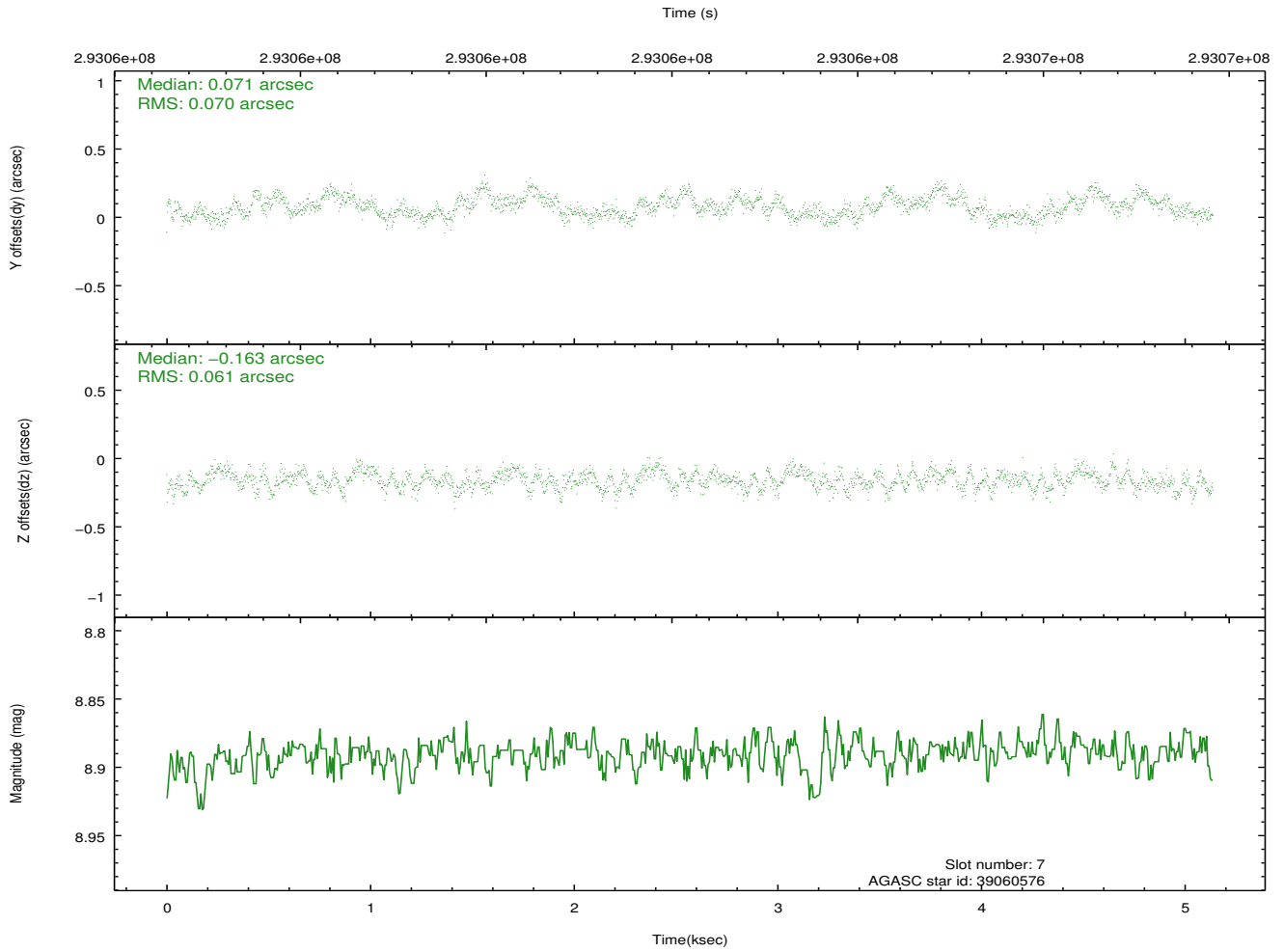
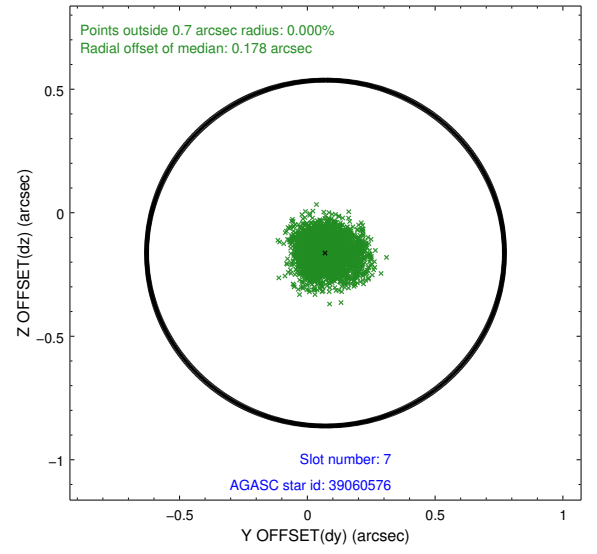
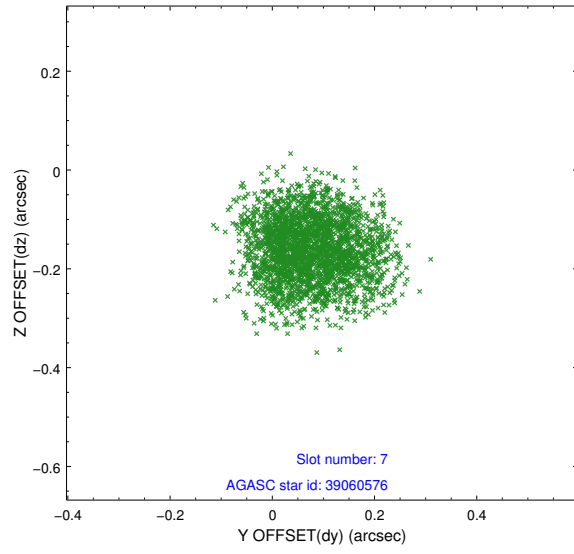
2.4.3 Slot 5



2.4.4 Slot 6

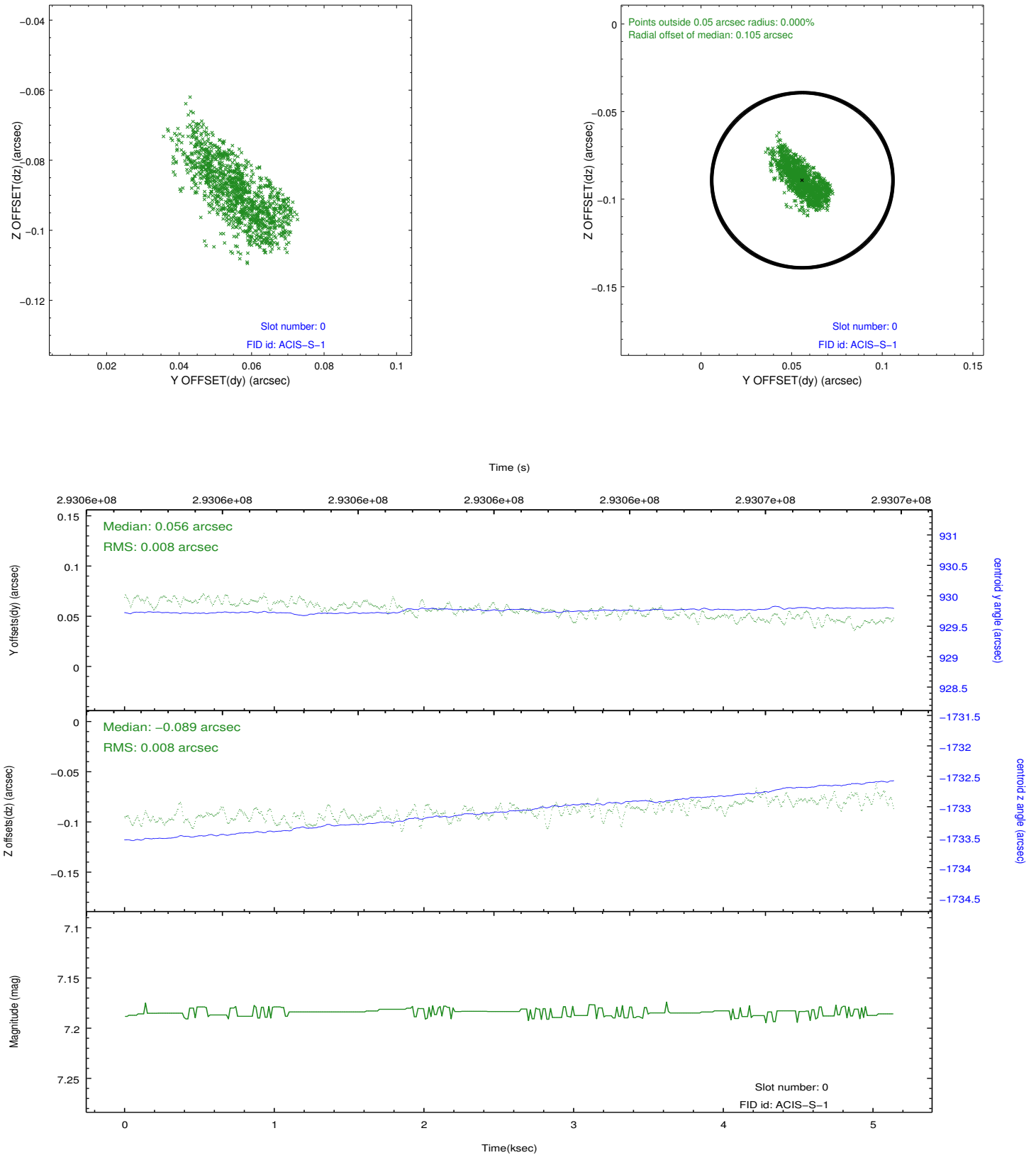


2.4.5 Slot 7

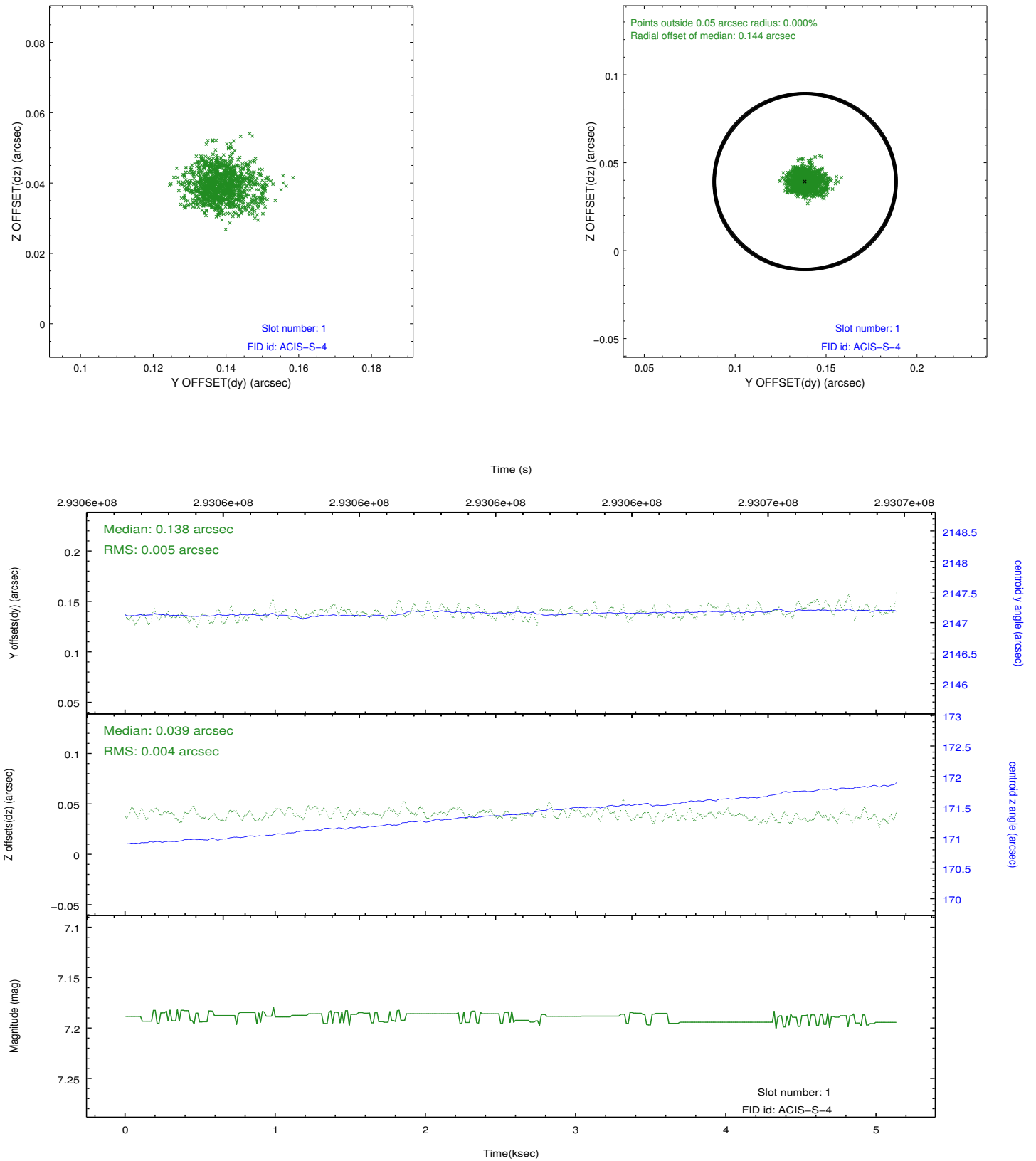


2.5 FID Slots

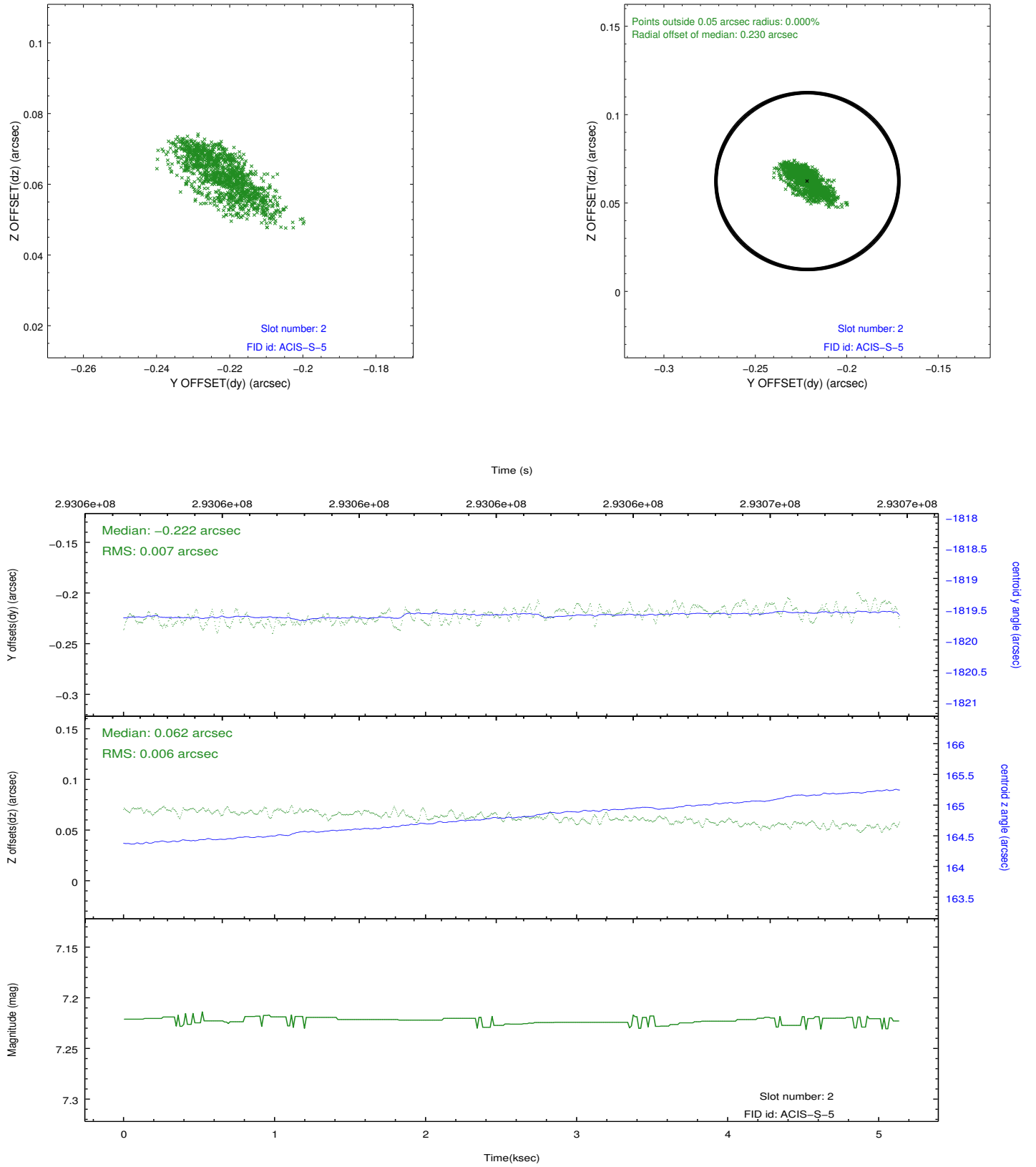
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.13279998

A.2 Comments